

09-18-2015 LETTING ITEM 008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

TR ROUTE 0002 COUNTY LINE ROAD
OVER THE KISHWAUKEE RIVER
BRIDGE AND ROADWAY IMPROVEMENTS
SECTION 08-00358-00-BR
PROJECT BRM-9003(111)
McHENRY COUNTY
JOB NO. C-91-106-09

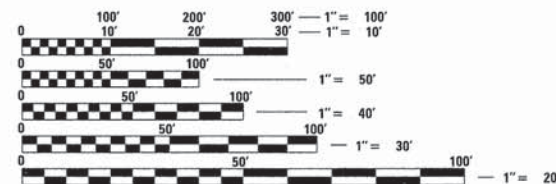
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	McHENRY	61	1
		ILLINOIS	CONTRACT NO. 61B05	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN
MARENGO TOWNSHIP



DESIGN DESIGNATION
COUNTY LINE ROAD
540 (14) LOCAL RURAL
T.F.=0.13 (FD=20)
DESIGN SPEED: 55
UNPOSTED SPEED: 55
ADT 600 (2030)

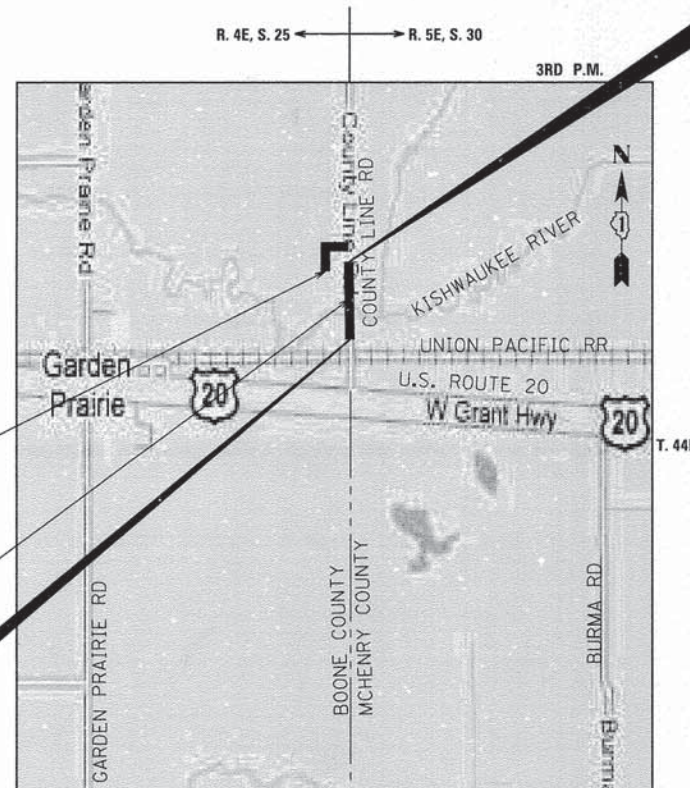


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

EXISTING STRUCTURE NUMBER: 056-3040
PROPOSED STRUCTURE NUMBER: 056-3194

PROJECT BRM-9003 (111)
PROJECT BEGINS
COUNTY LINE ROAD
STATION 110+90



MARENGO AND BONUS TOWNSHIPS
SECTIONS 25 AND 30
LOCATION MAP
NOT TO SCALE

PROJECT LENGTH (GROSSNET)
COUNTY LINE ROAD 824.81 FT (0.16 MILES)

PROJECT BRM-9003 (111)
PROJECT ENDS
COUNTY LINE ROAD
STATION 119+14.81



Dajin Liu 2/11/15
DAJIN LIU, S.E.
NO. 081-005944
EXP. DATE 11/30/16
SIGNATURE AND SEAL
APPLY TO DRAWINGS:
21 TO 37



David W. Block 2-11-2015
DAVID W. BLOCK, P.E.
NO. 062-050966
EXP. DATE 11/30/15
SIGNATURE AND SEAL
APPLY TO DRAWINGS:
1 TO 20
38 TO 61

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED ON: FEBRUARY 10 20 15
Joseph R. Kopycki Jr.
MCHENRY COUNTY, COUNTY ENGINEER

PASSED FEB 13 20 15
Chris...
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW February 13 20 15
John...
DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



1475 E. WOODFIELD RD., SUITE 600
SCHAMBURG, IL 60173
(847) 605-9600

FEDERAL AID PROGRAM ENGINEER: FAWAD ADEEL, P.E., PTOE, (847) 705-0021 SCHAMBURG, IL

CONTRACT NO. 61B05

GENERAL NOTES

REQUIREMENTS: THE PROJECT MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, IDOT SUPPLEMENTAL SPECIFICATIONS, AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

COUNTY COORDINATION: THE CONTRACTOR SHALL NOTIFY THE MCHENRY COUNTY DOT ENGINEER (815) 334-4960 AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE THE COUNTY AND ENGINEER, PRIOR TO BEGINNING CONSTRUCTION, WITH THE NAME AND PHONE NUMBER OF A CONTACT PERSON THAT WILL BE AVAILABLE FOR QUICK RESPONSE FOR AFTER-HOURS EMERGENCIES. IF THAT PERSON DOES NOT RESPOND WITHIN 4 HOURS OF THE CALL, THEN THE COUNTY SHALL HIRE OR USE OTHER PERSONNEL TO REMEDY THE EMERGENCY AND DEDUCT ALL COSTS INCURRED FROM THE PAYMENTS DUE THE CONTRACTOR.

PUBLIC OR PRIVATE UTILITIES: THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE COUNTY DOES NOT GUARANTEE ITS ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH FACILITIES SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS. THEIR FACILITIES MAY BE REQUIRED TO BE ADJUSTED OR RELOCATED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. AT LEAST 48 HOURS NOTIFICATION IS REQUIRED. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL ALSO CALL THE "FIBER OPTIC HOT LINE" AT (800) 336-9193 FOR FIELD LOCATIONS OF FIBER OPTIC LINES. AT LEAST 48 HOURS NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY DUE TO THEIR NEGLIGENCE, AND SHALL RESTORE SUCH PROPERTY TO ITS PRECONSTRUCTION STATE AT HIS/HER OWN EXPENSE.

THE COST TO DE-ENERGIZE COMED DISTRIBUTION LINES TO FACILITATE CONSTRUCTION EQUIPMENT, IF NECESSARY, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR DRIVING PILES AND COFFERDAM (TYPE 2) CONSTRUCTION.

DISPOSAL OF MATERIALS: THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, OUTSIDE THE 100-YEAR FLOODPLAIN, AT HIS/HER OWN EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT.

MAINTAINING DRAINAGE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS WITH APPROPRIATE EROSION CONTROL MEASURES AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

SAW CUTS: ALL SAW CUTS REQUIRED FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

STEEL BAR CERTIFICATION: FOR STEEL BARS CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT 847-705-4363.

EXISTING DETOUR: THE CONTRACTOR SHALL MAINTAIN THE EXISTING DETOUR AND REMOVE AND RETURN THE SIGNS TO THE MCHENRY COUNTY DIVISION OF TRANSPORTATION ONCE THE PROJECT IS COMPLETE. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701201.

DRAIN TILES: DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

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

WALLY DITTRICH, DESIGN MANAGER
MCHENRY COUNTY DEPARTMENT OF TRANSPORTATION
(815) 334-4980

TREE REMOVAL: TREE REMOVAL SHALL ONLY BE ALLOWED BETWEEN OCTOBER 1ST AND MARCH 31ST TO PROTECT THE NORTHERN LONG-EARED BAT AND INDIANA BAT.

BLANDING'S TURTLE: INFORMATION IN REGARD TO THE ENDANGERED BLANDING'S TURTLE, WHICH HAS KNOWN HABITAT ADJACENT TO THE CONSTRUCTION SITE SHALL BE DISTRIBUTED TO ALL CONSTRUCTION PERSONNEL. ALL PERSONNEL SHALL SEEK TO AVOID INTERACTION WITH THE TURTLE.

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
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6	EXISTING AND PROPOSED TYPICAL SECTIONS
7	SCHEDULE OF QUANTITIES
8	ALIGNMENT, TIES AND BENCHMARKS
9	REMOVAL PLAN
10-12	PLAN AND PROFILE
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20	PAVEMENT MARKING AND LANDSCAPING PLAN
21-37	STRUCTURAL PLANS
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STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
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
602001-02	CATCH BASIN TYPE A
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
665001-02	WOVEN WIRE FENCE
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

FILE NAME *	USER NAME * CECCom	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD			TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\CH10\0065\Road\Sheets\100065gr201.dwg		DRAWN - CEC	REVISED -		INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES			0002	08-00358-00-BR	MCHENRY	61	2
		CHECKED - DWB	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 61B05		
		DATE - 02/02/2015	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STP-BR 20% LA	0011 BRIDGE S.N. 056-3194 80% STP-BR 20% LA	0004 ROADWAY 100% LA
• CODE NO	ITEM	UNIT	TOTAL QUANTITY			
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	237	237		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	156	156		
20101000	TEMPORARY FENCE	FOOT	160	160		
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	93	93		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	56	56		
20200100	EARTH EXCAVATION	CU YD	2,022	2,022		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,532	2,532		
20300100	CHANNEL EXCAVATION	CU YD	265		265	
20400800	FURNISHED EXCAVATION	CU YD	687	687		
20800150	TRENCH BACKFILL	CU YD	5	5		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	186	186		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	9,667	9,667		
* 25000200	SEEDING, CLASS 2	ACRE	1	1		
* 25000312	SEEDING, CLASS 4A	ACRE	1.0	1		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	29	29		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	29	29		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	29	29		
* 25000775	SELECTIVE MOWING STAKES	EACH	8	8		
* 25100630	EROSION CONTROL BLANKET	SO YD	6,046	6,046		
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	442	442		
* 25200200	SUPPLEMENTAL WATERING	UNIT	5	5		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,609	1,609		
28000305	TEMPORARY DITCH CHECKS	FOOT	36	36		
28000315	AGGREGATE DITCH CHECKS	TON	20			20
28000400	PERIMETER EROSION BARRIER	FOOT	5,382	5,382		
28000510	INLET FILTERS	EACH	2	2		
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	6,488	6,488		
28100105	STONE RIPRAP, CLASS A3	SO YD	25	25		
28100107	STONE RIPRAP, CLASS A4	SO YD	451		451	
28200200	FILTER FABRIC	SO YD	476	25	451	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	62	62		
30300106	AGGREGATE SUBGRADE IMPROVEMENT 6"	SO YD	1,216			1,216
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1,858	1,858		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	175			175

• SPECIALTY ITEM

SUMMARY OF QUANTITIES				0004 ROADWAY 80% STP-BR 20% LA	0011 BRIDGE S.N. 056-3194 80% STP-BR 20% LA	0004 ROADWAY 100% LA
• CODE NO	ITEM	UNIT	TOTAL QUANTITY			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,421	4,295		126
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	10			10
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1,648	1,648		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	34	34		
44000100	PAVEMENT REMOVAL	SQ YD	1,500	1,500		
44004250	PAVED SHOULDER REMOVAL	SQ YD	177	177		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	269	269		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	281	281		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50105220	PIPE CULVERT REMOVAL	FOOT	76	76		
50200100	STRUCTURE EXCAVATION	CU YD	20		20	
50200300	COFFERDAM EXCAVATION	CU YD	194		194	
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1	
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1	
50300225	CONCRETE STRUCTURES	CU YD	140		140	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	94		94	
50300260	BRIDGE DECK GROOVING	SQ YD	546		546	
50300300	PROTECTIVE COAT	SQ YD	626		626	
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,490		3,490	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	42,690		42,690	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	448		448	
51201800	FURNISHING STEEL PILES HP14X73	FOOT	530		530	
51202305	DRIVING PILES	FOOT	978		978	
51203600	TEST PILE STEEL HP12X53	EACH	2		2	
51203800	TEST PILE STEEL HP14X73	EACH	2		2	
51204650	PILE SHOES	EACH	22		22	
51500100	NAME PLATES	EACH	1		1	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4		
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	20	20		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	13	13		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	35		35	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	9	9		
• 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		

• SPECIALTY ITEM

FILE NAME = G:\CH10\00655\Road\Sheets\10006550001.dwg	USER NAME = CECamin	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD SUMMARY OF QUANTITIES			TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - CEC	REVISED -		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	0002	08-00358-00-BR	MCHENRY	61	4
		CHECKED - DWB	REVISED -								CONTRACT NO. 61B05		
		DATE - 02/02/2015	REVISED -		ILLINOIS FED. AID PROJECT								

LEGEND:

- (A) HMA PAVEMENT - 4" AND VARIES
- (B) AGGREGATE BASE COURSE - 6" AND VARIES
- (C) AGGREGATE WEDGE SHOULDER, TYPE B
- (D) EXISTING GROUND SURFACE (ASSUME TOPSOIL DEPTH IS 6")
- (E) CONCRETE THROUGH GIRDERS
- (F) 14" REINFORCED CONCRETE FLOOR SLAB AND HMA OVERLAY
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2" (PAID FOR AS HMA PAVEMENT (FULL DEPTH) 6")
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 4" (PAID FOR AS HMA PAVEMENT (FULL DEPTH) 6") (IN 2 LIFTS)
- (3) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (4) AGGREGATE SHOULDERS, TYPE B 6"
- (5) SEEDING, CLASS 4A
TOPSOIL FURNISH AND PLACE, 6"
EROSION CONTROL BLANKET
(HEAVY DUTY EROSION CONTROL BLANKET ON SLOPES STEEPER THAN 1:3)
- (6) P.C.C. WEARING SURFACE - 5"
- (7) 17"x48" PRECAST PRESTRESSED CONCRETE DECK BEAMS
- (8) WYOMING 2-TUBE STEEL RAILING
- (9) AGGREGATE SURFACE COURSE, TYPE B, 3"
- (10) AGGREGATE SUBGRADE IMPROVEMENT 6"
- (11) SEEDING, CLASS 2
TOPSOIL FURNISH AND PLACE, 6"
EROSION CONTROL BLANKET
(HEAVY DUTY EROSION CONTROL BLANKET ON SLOPES STEEPER THAN 1:3)

COUNTY LINE ROAD

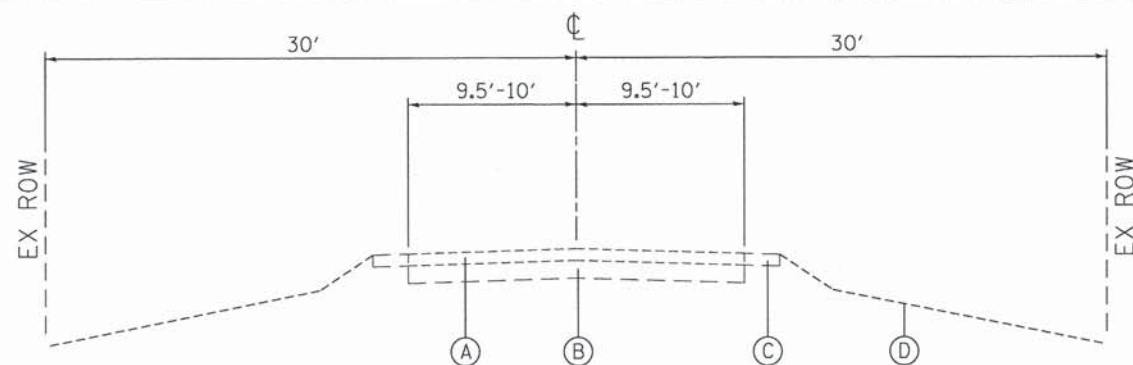
STRUCTURAL DESIGN TRAFFIC:	YEAR 2025
PV= 486	SU= 27 MU= 27
ROAD/STREET CLASSIFICATION:	CLASS III
TRAFFIC FACTOR:	ACTUAL TF= 0.13 AC TYPE= PG 58-28
THICKNESS BINDER= 4"	SURFACE= 2"
SUBGRADE SUPPORT RATING:	SSR= POOR

HMA MIX REQUIREMENT CHART

MIXTURE TYPE	AIR VOIDS @ Ndes
HMA PAVEMENT (FULL DEPTH) 6" & BRIDGE APPROACH PAVEMENT CONNECTOR***	4% @ 50 GYRATIONS
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm), 2"	4% @ 50 GYRATIONS
HMA BINDER COURSE, IL-19.0, N50, 4" (IN 2 LIFTS)	4% @ 50 GYRATIONS
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm), 3"	4% @ 50 GYRATIONS
HMA SHOULDERS, 6" (HMA BINDER IL-19mm)	4% @ 50 GYRATIONS

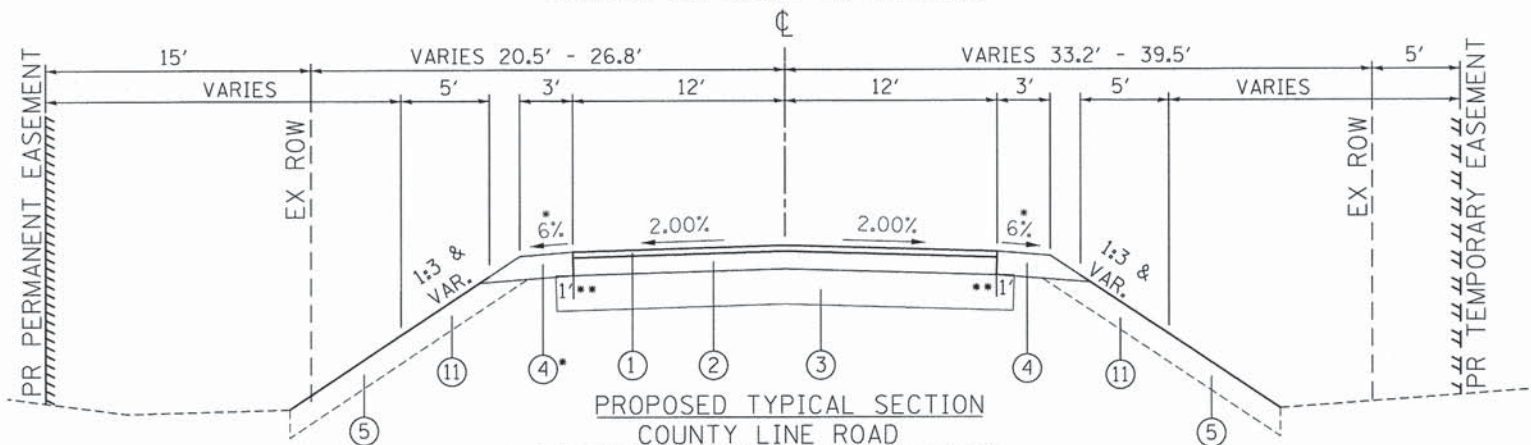
NOTES: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/IN
 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

***THE THICKNESS OF THE CONNECTOR PAVEMENT SHALL CONSIST OF 2" OF SURFACE OVER A VARIABLE DEPTH OF BINDER FROM 4" AT THE PROPOSED PAVEMENT TO 13" AT THE BRIDGE APPROACH PAVEMENT.



EXISTING TYPICAL SECTION

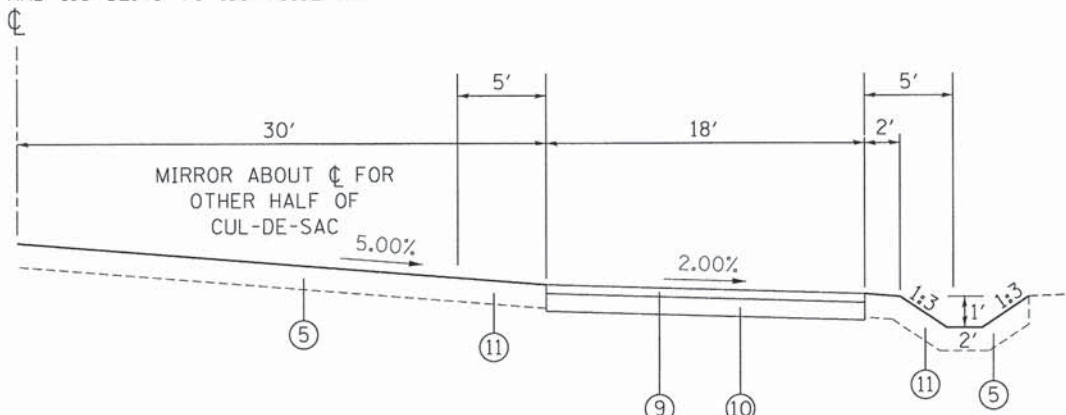
COUNTY LINE ROAD
 STATION 110+90.00 TO 113+82.86
 STATION 114+82.84 TO 119+14.81



PROPOSED TYPICAL SECTION

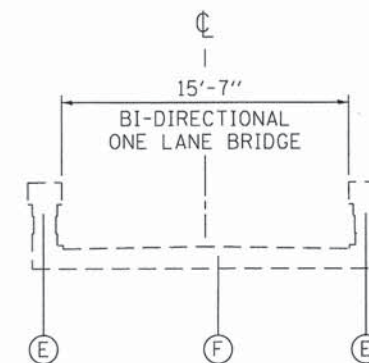
COUNTY LINE ROAD
 STATION 110+90.00 TO 114+00.99
 STATION 115+10.55 TO 119+14.81

- * CONSTRUCT HMA SHOULDERS, 6" FROM STATION 112+40.62 TO 113+66.55 AND 115+35.76 TO 116+63.15 LT AND STATION 112+48.39 TO 113+75.78 AND 115+44.99 TO 116+70.92 RT WITH A 4% CROSS SLOPE
- ** EXTEND AGGREGATE SUBGRADE TO 1' OUTSIDE OF HMA SHOULDERS, 6" FROM STATION 112+40.62 TO 112+79.14 AND 116+24.63 TO 116+63.15 LT AND STATION 112+48.39 TO 112+86.91 AND 116+32.40 TO 116+70.92 RT



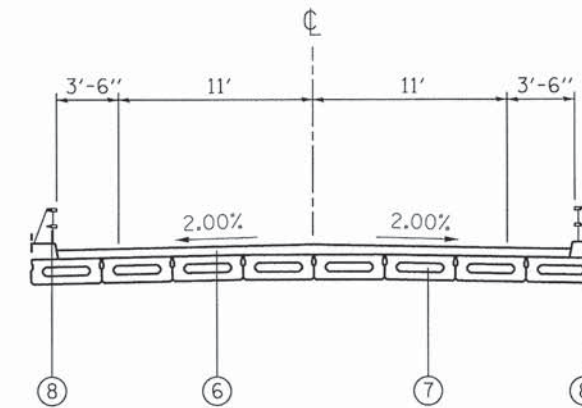
PROPOSED TYPICAL SECTION

CANOE LAUNCH ACCESS ROAD CUL-DE-SAC
 STATION 201+01.74 TO 202+37.98



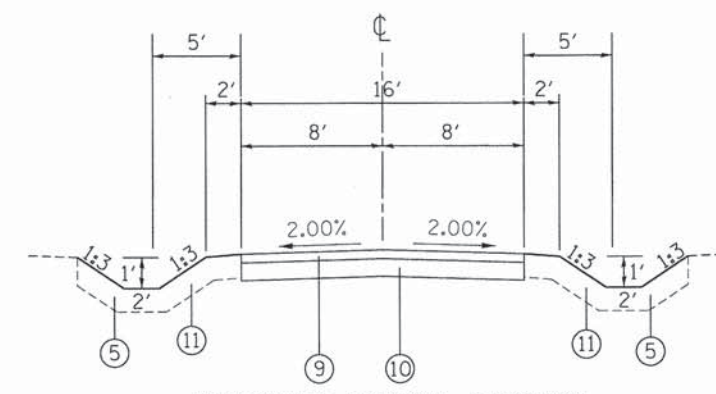
EXISTING TYPICAL SECTION

COUNTY LINE ROAD BRIDGE
 STATION 113+82.86 TO 114+82.84



PROPOSED TYPICAL SECTION

COUNTY LINE ROAD BRIDGE
 STATION 114+00.99 TO 115+10.55



PROPOSED TYPICAL SECTION

CANOE LAUNCH ACCESS ROAD
 STATION 202+37.98 TO 204+98.04

FILE NAME =	USER NAME = CECamin	DESIGNED = CEC	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD EXISTING AND PROPOSED TYPICAL SECTIONS		TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
G:\CH08\08055\Road\Sheets\100865\tp001.dgn		DRAWN = CEC	REVISED =		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	0002	08-00358-00-BR	MCHENRY	61	6
		CHECKED = DWB	REVISED =									CONTRACT NO. 61B05	
		DATE = 02/02/2015	REVISED =									ILLINOIS FED. AID PROJECT	

LOCATION	20201200 REM & DISP OF UNSUITABLE MATERIAL (CU YD) (NOTE 1)	20200100 EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ 15% FOR SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
COUNTY LINE ROAD - SOUTH LIMITS TO BRIDGE	253	136	115	802	-687
COUNTY LINE ROAD - BRIDGE TO NORTH LIMITS	293	112	95	1,320	-1,225
CANOE LAUNCH AND CANOE LAUNCH ACCESS ROAD	455	1,775	1,508	0	+1,508
SOUTH OXBOW EXCAVATION AREA	299	0	0	0	0
WEST OXBOW EXCAVATION AREA	174	0	0	0	0
NORTH OXBOW EXCAVATION AREA	997	0	0	0	0
TOTAL	2,472	2,022	1,719	2,121	-687

THE +1,508 CY OF EXCAVATION FROM THE CANOE LAUNCH AND CANOE LAUNCH ACCESS ROAD SHALL BE USED FOR THE -1,225 CY EMBANKMENT FOR COUNTY LINE ROAD FROM THE BRIDGE TO THE NORTH LIMITS.

NOTE 1: INCLUDES TOPSOIL STRIPPING AND SOILS BELOW EXISTING EXISTING WATER LEVEL IN OXBOW.

NOTE 2: 60 CY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL WAS ASSUMED FOR UNDERCUTTING. TOTAL QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL IS 2,532 CY.

THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER OR SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AGGREGATE SUBGRADE IMPROVEMENT NOT NEEDED AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.

PIPE CULVERT REMOVAL

FROM STA.	TO STA.	LT/RT	LENGTH
120+44	120+98	LT	55'
123+59	123+80	LT	21'
TOTAL			76'

FENCE REMOVAL

FROM STA.	TO STA.	LT/RT	LENGTH
110+78	113+77	RT	299'
113+66	113+76	LT	10'
117+01	118+28	LT	127'
123+52	123+62	LT	10'
TOTAL			446'

GUARDRAIL REMOVAL

FROM STA.	TO STA.	LT/RT	LENGTH
113+30	113+82	RT	52'
113+56	113+83	LT	27'
114+72	115+25	LT	53'
114+72	115+25	RT	53'
TOTAL			185'

RETAINING WALL REMOVAL

FROM STA.	TO STA.	LT/RT	LENGTH
114+80	115+21	LT	40'
114+81	115+21	RT	41'
TOTAL			81'

FILE NAME = G:\CH10\0065\Road\Sheets\100065\Sched00.dgn	USER NAME = CEComin	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD SCHEDULE OF QUANTITIES		TR. RTE. = 0002	SECTION = 08-00358-00-BR	COUNTY = McHENRY	TOTAL SHEETS = 61	SHEET NO. = 7	
PLOT SCALE = 1:8000 ' / 1"	CHECKED - DWB	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 2/9/2015	DATE = 02/02/2015	REVISED -										
CONTRACT NO. 61B05												



COORDINATE INFORMATION

POINT ON ALIGNMENT	STA	NORTHING	EASTING
COUNTY LINE ROAD, POT	100+00.00	2034797.18	883513.68
COUNTY LINE ROAD, POT	109+67.96	2035765.13	883509.51
COUNTY LINE ROAD, POT	123+64.52	2037161.55	883489.60
COUNTY LINE ROAD, POT	135+64.74	2038361.76	883496.08
CANOE LAUNCH/CANOE LAUNCH ACCESS ROAD, POT	200+00.00	2036740.92	883385.81
CANOE LAUNCH/CANOE LAUNCH ACCESS ROAD, PC	203+89.17	2037130.09	883385.81
CANOE LAUNCH/CANOE LAUNCH ACCESS ROAD, PI	204+18.40	2037159.33	883385.81
CANOE LAUNCH/CANOE LAUNCH ACCESS ROAD, PT	204+35.52	2037160.08	883415.03
CANOE LAUNCH/CANOE LAUNCH ACCESS ROAD, POT	205+10.11	2037162.01	883489.60
SOUTH OXBOW EXCAVATION AREA, POT	10+00.00	2036260.68	883319.23
SOUTH OXBOW EXCAVATION AREA, PI	10+48.09	2036240.42	883275.62
SOUTH OXBOW EXCAVATION AREA, PI	10+99.71	2036227.56	883225.63
SOUTH OXBOW EXCAVATION AREA, PI	11+72.24	2036237.91	883153.84
SOUTH OXBOW EXCAVATION AREA, POT	12+16.23	2036246.85	883110.77
WEST OXBOW EXCAVATION AREA, POT	30+00.00	2036306.05	883262.04
WEST OXBOW EXCAVATION AREA, POT	30+69.83	2036251.02	883219.06
NORTH OXBOW EXCAVATION AREA, POT	20+00.00	2036575.87	883352.77
NORTH OXBOW EXCAVATION AREA, POT	21+73.30	2036573.40	883179.49

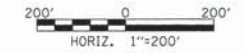
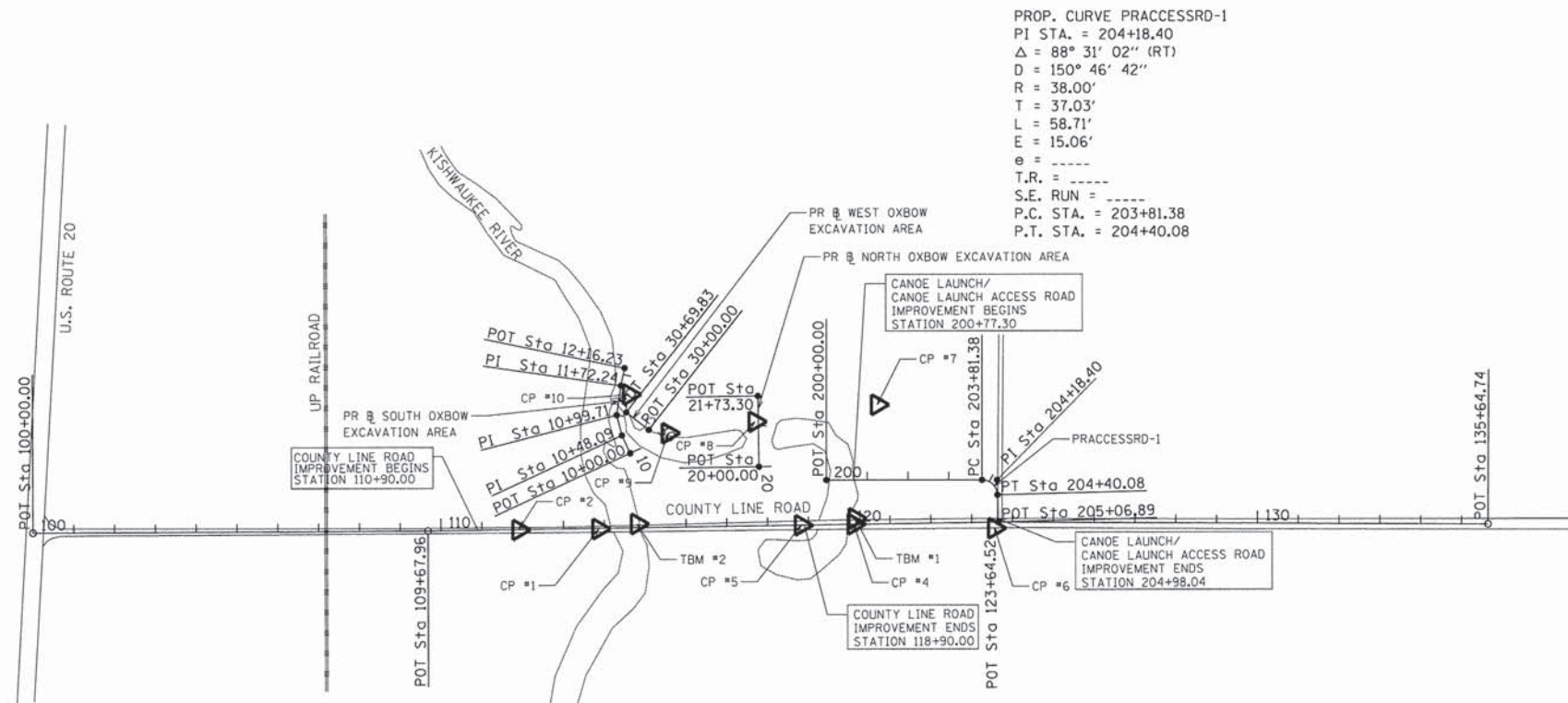
BENCHMARK SUMMARY

NAME	ELEVATION	STATION	NORTHING	EASTING	DESCRIPTION
TBM #1	780.87	120+13.89, 14.5' LT	2036810.74	883480.13	BOX CUT SET IN NORTHWEST CORNER OF CONCRETE ABUTMENT OF OXBOW BRIDGE 500' NORTH.
TBM #2	781.19	114+80.88, 8.8' LT	2036277.88	883493.39	FOUND BOX CUT IN NW CORNER OF CONCRETE BRIDGE ABUTMENT OF SOUTH BRIDGE OVER THE KISHWAUKEE RIVER.

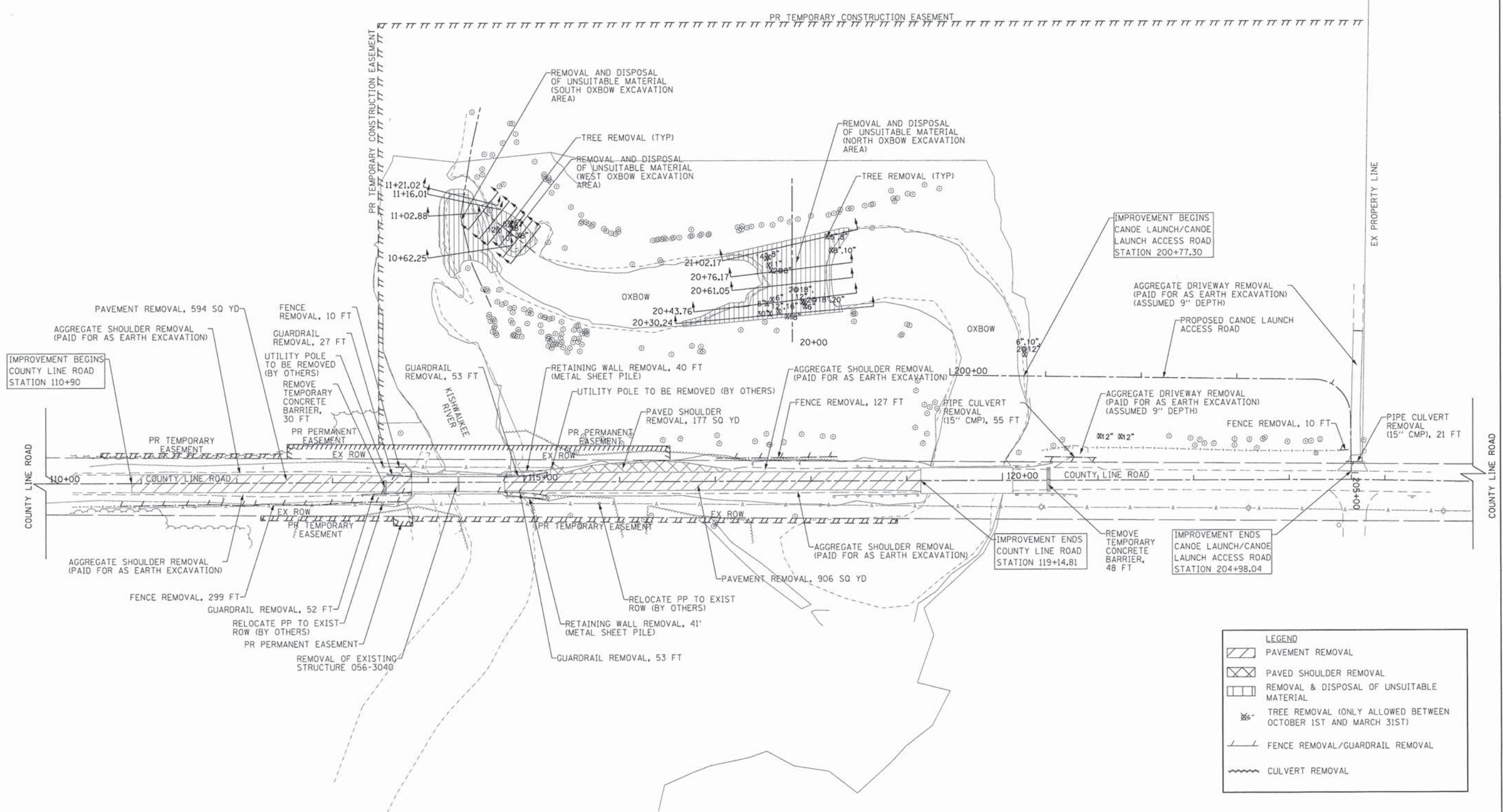
CONTROL POINT SUMMARY

NAME	ELEVATION	NORTHING	EASTING	DESCRIPTION
CP #1	781.31	2036183.70	883505.24	MAG NAIL
CP #2	779.39	2035987.33	883507.09	MAG NAIL
CP #3	777.45	2035902.26	883723.30	10" NAIL
CP #4	781.30	2036808.55	883494.34	MAG NAIL
CP #5	781.10	2036679.27	883497.02	MAG NAIL
CP #6	781.31	2037152.48	883504.80	MAG NAIL
CP #7	778.81	2036865.83	883201.26	5/8" REBAR W/ YELLOW CAP
CP #8	776.07	2036566.10	883242.61	10" NAIL
CP #9	776.43	2036353.65	883270.39	10" NAIL
CP #10	776.54	2036258.92	883175.47	10" NAIL

* NOTE: TBM #1, CP #4, CP #6 AND CP #7 SHALL BE PRESERVED BY THE CONTRACTOR SO THAT THEY CAN BE USED AFTER CONSTRUCTION IS COMPLETED.



FILE NAME = G:\CH10\0065\Road\Sheets\100065A&T.dgn	USER NAME = CEComin	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD ALIGNMENT, TIES AND BENCHMARKS			TR RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 8
PLOT SCALE = 200.0000 1/4" = 100'	CHECKED - DWB	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61B05			
PLOT DATE = 2/9/2015	DATE - 02/02/2015	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



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C:\CH08\00055\Road\Sheet\100055REMOVAL.dgn		DRAWN = CEC	REVISED =
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	PLOT DATE = 2/9/2015	DATE = 02/02/2015	REVISED =

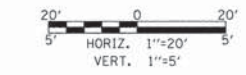
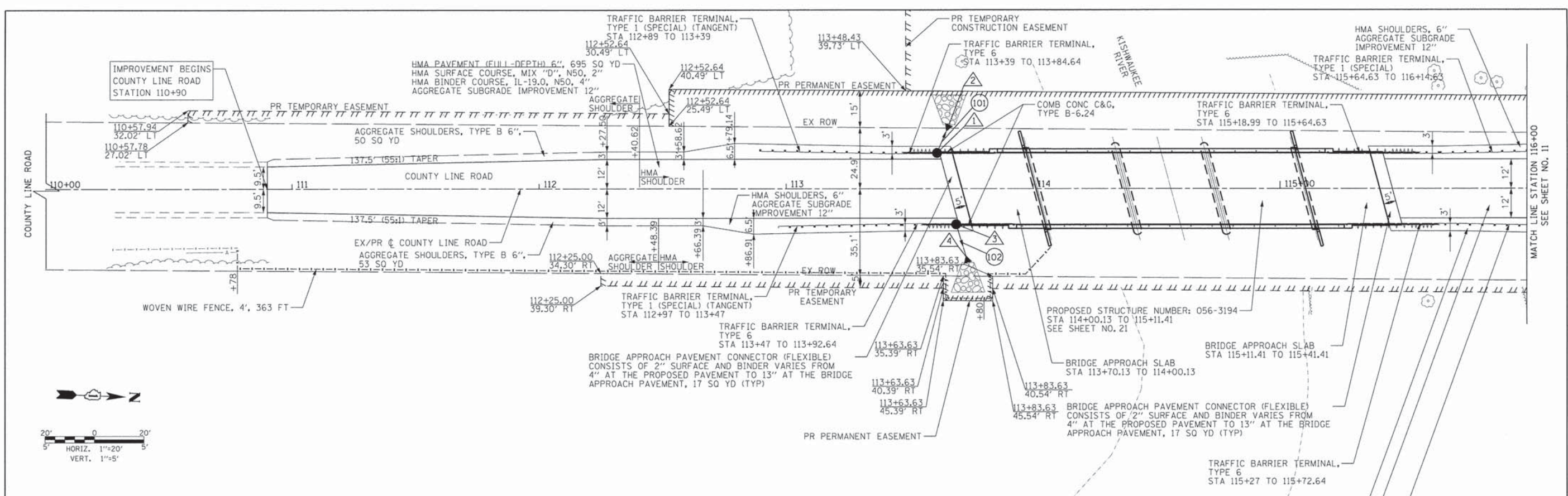
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COUNTY LINE ROAD REMOVAL PLAN	
SHEET NO. 1 OF 1 SHEETS	STA. TO STA.

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	9
CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				

DATE: _____ BY: _____
 PLAN
 SUBMITTED: _____
 CHECKED: _____
 DATE: _____
 BY: _____
 NO. _____

DATE: _____ BY: _____
 PROFILE
 SUBMITTED: _____
 CHECKED: _____
 DATE: _____
 BY: _____
 NO. _____



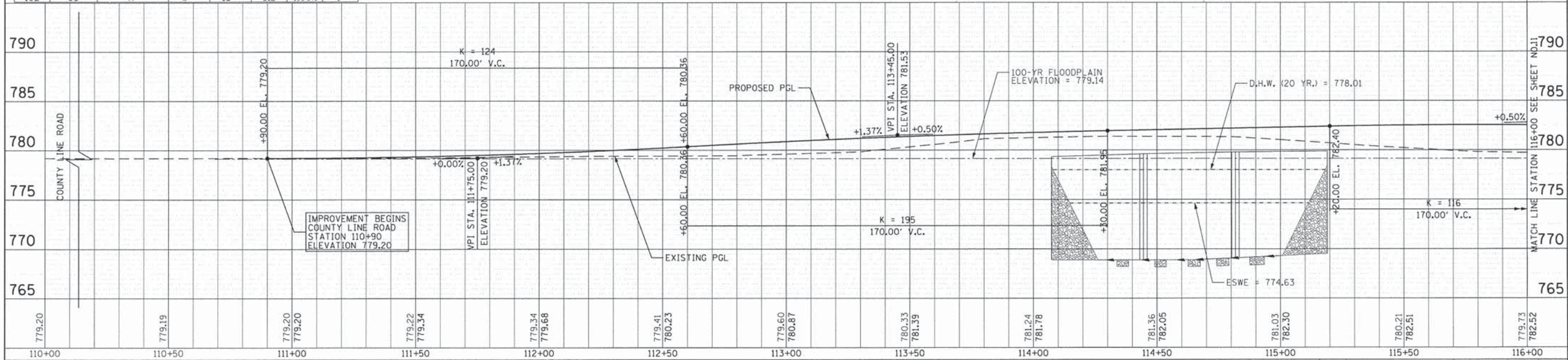
SCHEDULE OF STORM SEWER STRUCTURES:

STR. NO.	STATION	OFFSET (FT)	TYPE	FRAME & GRATE	RIM ELEV.	EAST	WEST
1	113+61.1	14.5 LT	CB TYPE A, 4' DIA.	T24 F & G	781.18		777.50
2	113+66	26.0 LT	PRC FL END SECT 15" W/ GRATE			777.40	
3	113+68.8	14.5 RT	CB TYPE A, 4' DIA.	T24 F & G	781.25	775.81	
4	113+74	30.0 RT	PRC FL END SECT 15" W/ GRATE				775.67

STATION/OFFSET/ELEVATION TO CENTER OF END SECTION TOE BLOCK.

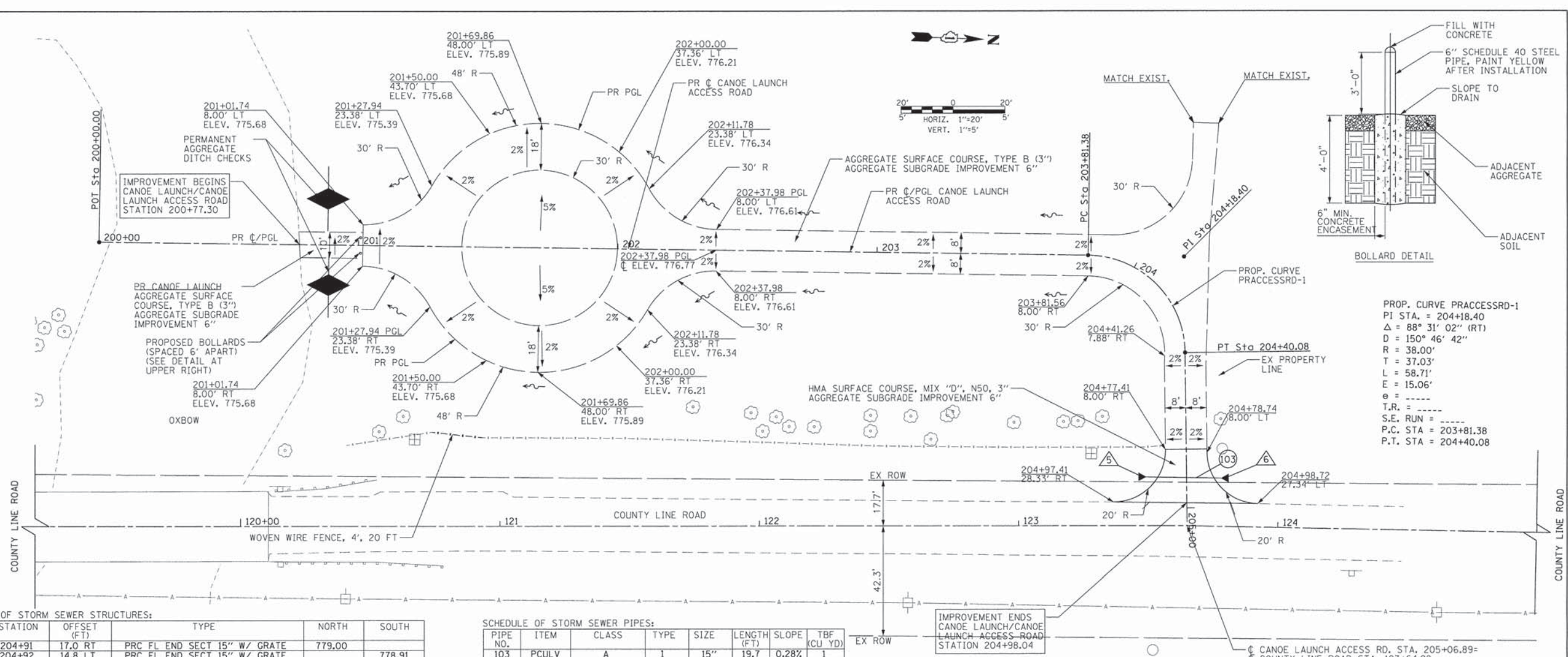
SCHEDULE OF STORM SEWER PIPES:

PIPE NO.	ITEM	CLASS	TYPE	SIZE	LENGTH (FT)	SLOPE	TBF (CU YD)
101	SS	A	2	15"	4.4	1.00%	1
102	SS	A	2	15"	8.2	1.00%	1



DATE	
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DESCRIPTION	
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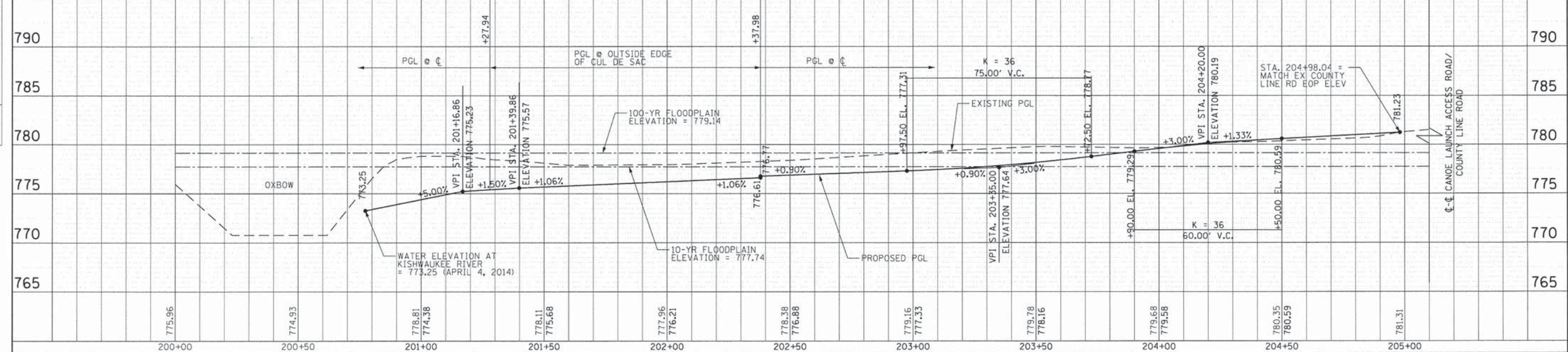
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DESCRIPTION	



STR. NO.	STATION	OFFSET (FT)	TYPE	NORTH	SOUTH
5	204+91	17.0 RT	PRC FL END SECT 15" W/ GRATE	779.00	
6	204+92	14.8 LT	PRC FL END SECT 15" W/ GRATE		778.91

* STATION/OFFSET/ELEVATION TO CENTER OF END SECTION TOE BLOCK.

PIPE NO.	ITEM	CLASS	TYPE	SIZE	LENGTH (FT)	SLOPE	TBF (CYL YD)
103	PCULV	A	1	15"	19.7	0.28%	1



FILE NAME =	USER NAME = CEC\m	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANOE LAUNCH AND CANOE LAUNCH ACCESS ROAD PLAN AND PROFILE			TR. NO. = 0002	SECTION = 08-00358-00-BR	COUNTY = MCHENRY	TOTAL SHEETS = 61	SHEET NO. = 12
PLOT SCALE = 28.0000" / 1" =	CHECKED - DWB	REVISED -	REVISED -		SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.	[ILLINOIS] FED. AID PROJECT				
PLOT DATE = 2/9/2015	DATE = 02/02/2015	REVISED -	REVISED -									
CONTRACT NO. 61805												

EROSION AND SEDIMENTATION CONTROL NOTES

ALL CONSTRUCTION ACTIVITIES AND WATER QUALITY STANDARDS SHALL BE IN ACCORDANCE WITH THE IEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), IEPA SECTION 401 WATER QUALITY CONDITIONS, SOIL AND WATER CONSERVATION DISTRICT (SWCD), SECTION 280 AND 282 OF THE STANDARD SPECIFICATIONS, IDOT CONSTRUCTION MEMORANDUM NO. 06-60, AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SEE IEPA SECTION 401 WATER QUALITY CONDITIONS AND SWPPP IN THE SPECIAL PROVISIONS.

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.

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

PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE MCHENRY COUNTY DIVISION OF TRANSPORTATION FOR REVIEW BY THE MCHENRY-LAKE SWCD AND BOONE SWCD.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE BOONE COUNTY SWCD AND MCHENRY-LAKE SWCD.

SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

THE MCHENRY-LAKE SWCD AND BOONE SWCD MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO FINAL INSPECTION.

CONSTRUCTION LIMITS SHALL BE MINIMIZED TO KEEP SOIL DISTURBANCE TO A MINIMUM LEAVING AS MUCH EXISTING VEGETATION IN PLACE AS POSSIBLE. DIVERT "CLEAR" WATER FLOWING THROUGH THE CONSTRUCTION SITE AWAY FROM DISTURBED AREAS. INTERCEPT AND CONTAIN SEDIMENT CLOSE TO ITS SOURCE. ALL PROJECT-RELATED SEDIMENT SHALL BE RETAINED ON THE PROJECT SITE. NO RUNOFF FLOW FROM DISTURBED AREAS SHALL LEAVE THE SITE WITHOUT BEING TREATED.

ALL DISTURBED AREAS, EXISTING EROSION CONTROL MEASURES, VEHICLE ACCESS SITES AND ALL OTHER AREAS SUBJECT TO EROSION SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF EACH ONE-HALF INCH OR GREATER RAINFALL OR EQUIVALENT SNOWFALL.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

THE CONTRACTOR SHALL COMPLETE PERMANENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL AFTER THE COMPLETION OF GRADING. TEMPORARY MEASURES SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT MEASURES ARE ESTABLISHED.

A QUANTITY OF TEMPORARY EROSION CONTROL SEEDING HAS BEEN PROVIDED TO REDUCE EROSION OF ALL EXPOSED EARTH SLOPES THAT ARE NOT READY FOR PERMANENT STABILIZATION, AREAS THAT REMAIN DENUDED FOR MORE THAN 14 DAYS, AREAS THAT WILL BE RE-DISTURBED, AND STOCKPILES. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDING.

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

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.

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

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).

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. THE WORK DESCRIBED IN THIS PARAGRAPH SHALL BE PAID FOR AS STABILIZED CONSTRUCTION ENTRANCE.

DUST SHALL BE CONTROLLED IN ACCORDANCE WITH ARTICLE 107.36 OF THE STANDARD SPECIFICATIONS.

IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES, ISOLATED WATERS OF MCHENRY COUNTY, OR ISOLATED WATERS OF BOONE COUNTY. A POTENTIAL AREA FOR STOCKPILES LOCATED OUTSIDE OF THE 100-YR FLOODPLAIN HAS BEEN SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A WORKING CONDITION.

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT, AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTIONS.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY WITHIN THE PROJECT LIMITS AT LOCATIONS AS DESIGNATED BY THE ENGINEER. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

THE CONTRACTOR SHALL PROVIDE WATER-TIGHT TANKS OR BARRELS, OR CONSTRUCT A SUMP SEALED WITH PLASTIC SHEETS TO BE USED TO DISPOSE OF CHEMICAL POLLUTANTS, SUCH AS DRAINED LUBRICATING OR TRANSMISSION FLUIDS, GREASE, SOAPS, CONCRETE MIXER WASH WATER, ASPHALT, ETC., PRODUCED AS A BY-PRODUCT OF THE CONSTRUCTION ACTIVITIES. AT THE COMPLETION OF THE CONSTRUCTION WORK, SUMPS SHALL BE REMOVED AND THE AREA RESTORED TO ITS ORIGINAL CONDITION AS SPECIFIED IN SECTION 8 OF THE ILLINOIS URBAN MANUAL. SUMP REMOVAL SHALL BE CONDUCTED WITHOUT CAUSING POLLUTION.

SANITARY FACILITIES SUCH AS CHEMICAL TOILETS OR SEPTIC TANKS SHALL NOT BE LOCATED ADJACENT TO LIVE STREAMS, WELLS, OR SPRINGS. THEY SHALL BE LOCATED AT A DISTANCE SUFFICIENT TO PREVENT CONTAMINATION OF ANY WATER SOURCE. AT THE COMPLETION OF CONSTRUCTION ACTIVITIES, FACILITIES SHALL BE DISPOSED OF WITHOUT CAUSING POLLUTION AS SPECIFIED IN SECTION 8 OF THE ILLINOIS URBAN MANUAL.

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

THE CONTRACTOR'S OPERATIONS SHALL NOT DISTURB THE KISHWAUKEE RIVER WATERWAY OR BANKS. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM, INCLUDING BED AND BANKS, SHALL BE RE-STABILIZED WITHIN 48 HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.

IN STREAM WORK SHALL BE PERFORMED IN DRY CONDITIONS IN ACCORDANCE WITH USACE SECTION 404 REGIONAL PERMIT 38 AND NATIONWIDE PERMIT 36, MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT (MLCSWCD), AND BOONE COUNTY SOIL AND WATER CONSERVATION DISTRICT (BCSWCD) REQUIREMENTS. TURBIDITY CURTAINS SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER TO CONTROL SEDIMENT MOVING INTO THE RIVER DURING EXCAVATION PRIOR TO ANY IN STREAM WORK. THE KISHWAUKEE RIVER IS A WATER OF THE UNITED STATES (WOUS) AND ARMY CORPS OF ENGINEERS APPROVAL WILL BE NEEDED. A COPY OF THE PERMITS IS INCLUDED IN THE SPECIAL PROVISIONS. CREEK FLOW SHALL BE DIVERTED AWAY FROM CONSTRUCTION OPERATIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED AT THE OUTLET OF ANY DIVERSION PIPE. CREEK FLOW SHALL BE DIVERTED FROM ANY AREAS WHERE DEMOLITION DEBRIS FROM THE EXISTING BRIDGE DECK ARE TO BE DROPPED INTO THE CREEK. THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF DIVERSION PLANS FROM MLCSWCD AND BCSWCD PRIOR TO ANY IN STREAM WORK BEING PERFORMED.

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., ISOLATED WATERS OF MCHENRY COUNTY, OR ISOLATED WATERS OF BOONE COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.

ALL HEAVY EQUIPMENT SHALL BE POWER-WASHED TO REMOVE ANY INVASIVE SEED PRESENT ON EQUIPMENT PRIOR TO ENTERING THE CONSTRUCTION SITE.

THE EXCAVATED MATERIAL BEING TRANSPORTED OFF SITE, SPECIFICALLY FROM THE WATERWAYS, SHALL BE PREVENTED FROM LEAKING OR SPILLING ONTO THE ROADWAYS BY DRYING THE MATERIAL BEFORE TRANSPORT, PROVIDING A LINER FOR THE TRUCKS, OR OTHER APPROVED METHOD.

A CONCRETE TRUCK WASHOUT FACILITY SHALL BE ESTABLISHED ON THE EXISTING ROADWAY PAVEMENT TO PREVENT WASHOUTS FROM LEAVING THE PAVEMENT AREA AND DISCHARGING INTO THE FLOODPLAIN. WASHOUTS SHALL BE REMOVED FROM THE SITE PRIOR TO COMPLETING ROADWORK.

EROSION AND SEDIMENTATION CONTROL SEQUENCES

I. THE FOLLOWING EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CLEARING

SILT FENCES
ERECT ALL SILT FENCES AS SHOWN ON THE EROSION CONTROL PLANS TO CONTROL SEDIMENT FROM THE RUNOFF LEAVING THE DISTURBED AREAS.

TURBIDITY CURTAINS
TURBIDITY CURTAINS SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER TO CONTROL SEDIMENT DURING EXCAVATION IN AND AROUND THE IN STREAM WORK.

TREE PROTECTION
INSTALL TREE PROTECTION TO THE TREES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.

II. THE FOLLOWING EROSION CONTROL MEASURE IS TO TAKE PLACE PRIOR TO GRADING

TEMPORARY DITCH CHECK
INSTALL TEMPORARY AND PERMANENT DITCH CHECKS IN EXISTING DITCHES TO CONTROL RUNOFF VELOCITY AS SHOWN ON THE EROSION CONTROL PLAN OR AS DIRECTED BY ENGINEER.

III. WITHIN 7 DAYS OF THE COMPLETION OF CLEARING OR GRADING OR WITHIN 14 DAYS OF LAST DISTURBANCE, THE FOLLOWING MEASURES SHALL BE ENFORCED.

TEMPORARY STABILIZATION
PROVIDE TEMPORARY STABILIZATION OVER AREAS THAT CANNOT BE STABILIZED WITH PERMANENT VEGETATIVE MEASURES FOR 14 DAYS OR MORE AND CONSEQUENTLY REQUIRE TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. THESE AREAS SHALL BE TREATED WITH PERMANENT VEGETATIVE COVER AT SOME FUTURE DATE.

PERMANENT EROSION CONTROL
PROVIDE PERMANENT VEGETATION AND INSTALL ALL THE PERMANENT EROSION CONTROL MEASURES AS SHOWN ON THE PLANS OR DIRECTED BY ENGINEER, BEFORE REMOVAL OF THE TEMPORARY EROSION CONTROL MEASURES.

IV. THE FOLLOWING EROSION CONTROL MEASURE SHALL BE PERFORMED AFTER PROPOSED DITCHES ARE GRADED AND PROPOSED DRAINAGE STRUCTURES AND STORM SEWER ARE CONSTRUCTED.

INLET FILTER PROTECTION
INLET PROTECTION SHALL BE PROVIDED TO ALL PROPOSED INLETS OR CATCH BASINS LOCATED IN ALL AREAS AS SHOWN ON EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

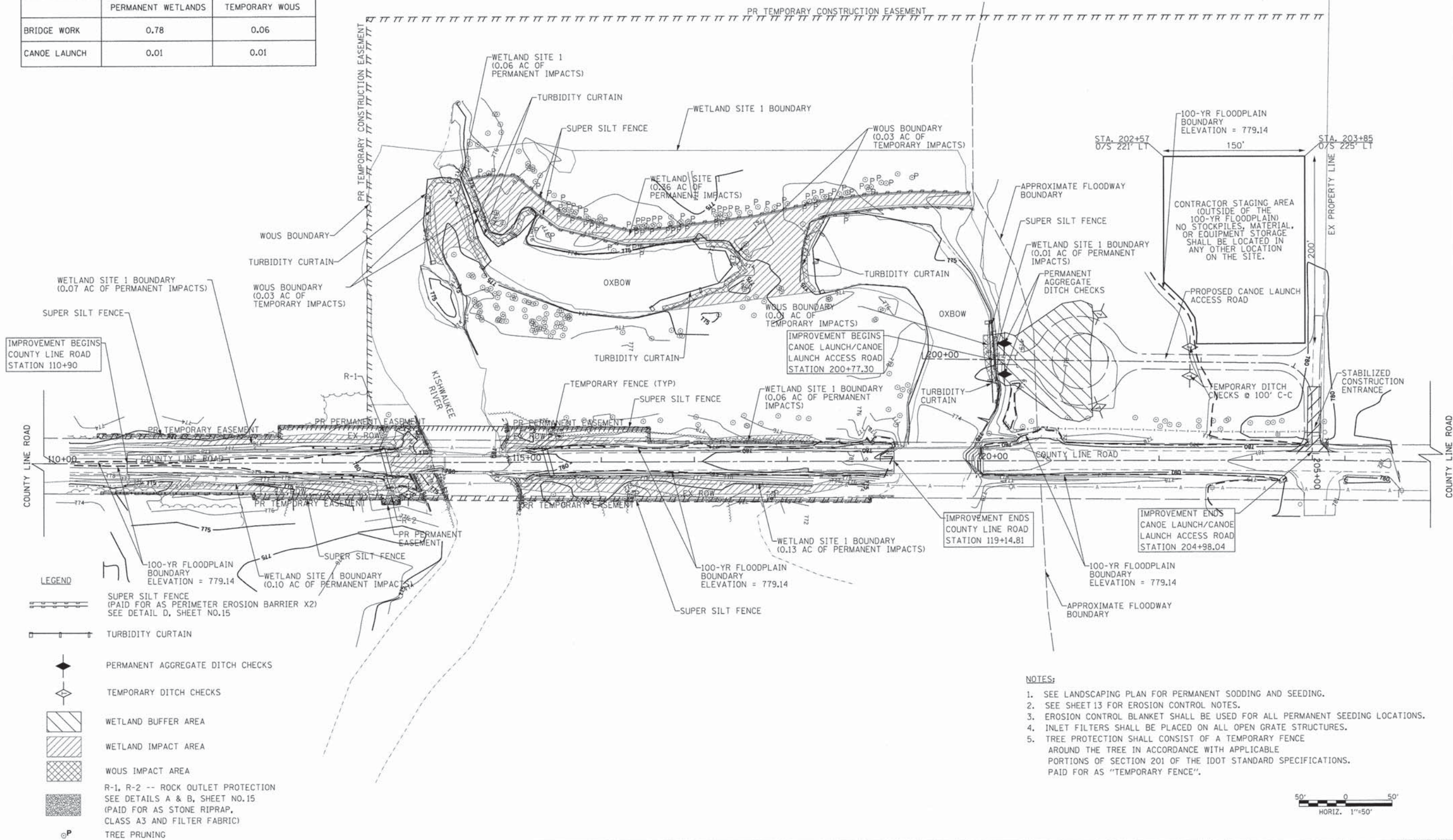
V. THE FOLLOWING MEASURES SHALL BE PROVIDED DURING THE CONTRACT ON AN AS NEEDED BASIS.

DUST CONTROL WATERING
DUST CONTROL WATERING SHALL BE APPLIED TO CONTROL THE DUST RESULTING FROM THE CONSTRUCTION OPERATION.

STREET CLEANING AND SWEEPING
STREET CLEANING AND SWEEPING SHALL BE PERFORMED ON EACH WORKDAY, AS REQUIRED AND DIRECTED AND APPROVED BY THE ENGINEER. COST FOR THIS WORK WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

FILE NAME =	USER NAME = CECamin	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\CH10\00651Road\Sheets\100065ECHNotes.dgn		DRAWN - CEC	REVISED -		EROSION AND SEDIMENT CONTROL NOTES			0002	08-00358-00-BR	MCHENRY	61	13
		CHECKED - DWB	REVISED -		SCALE: NONE			SHEET NO. 1 OF 3 SHEETS			CONTRACT NO. 61B05	
		DATE - 02/02/2015	REVISED -		STA. TO STA.			ILLINOIS FED. AID PROJECT				

PERMANENT WETLAND/TEMPORARY WOUS IMPACTS (ACRES)		
	PERMANENT WETLANDS	TEMPORARY WOUS
BRIDGE WORK	0.78	0.06
CANOE LAUNCH	0.01	0.01



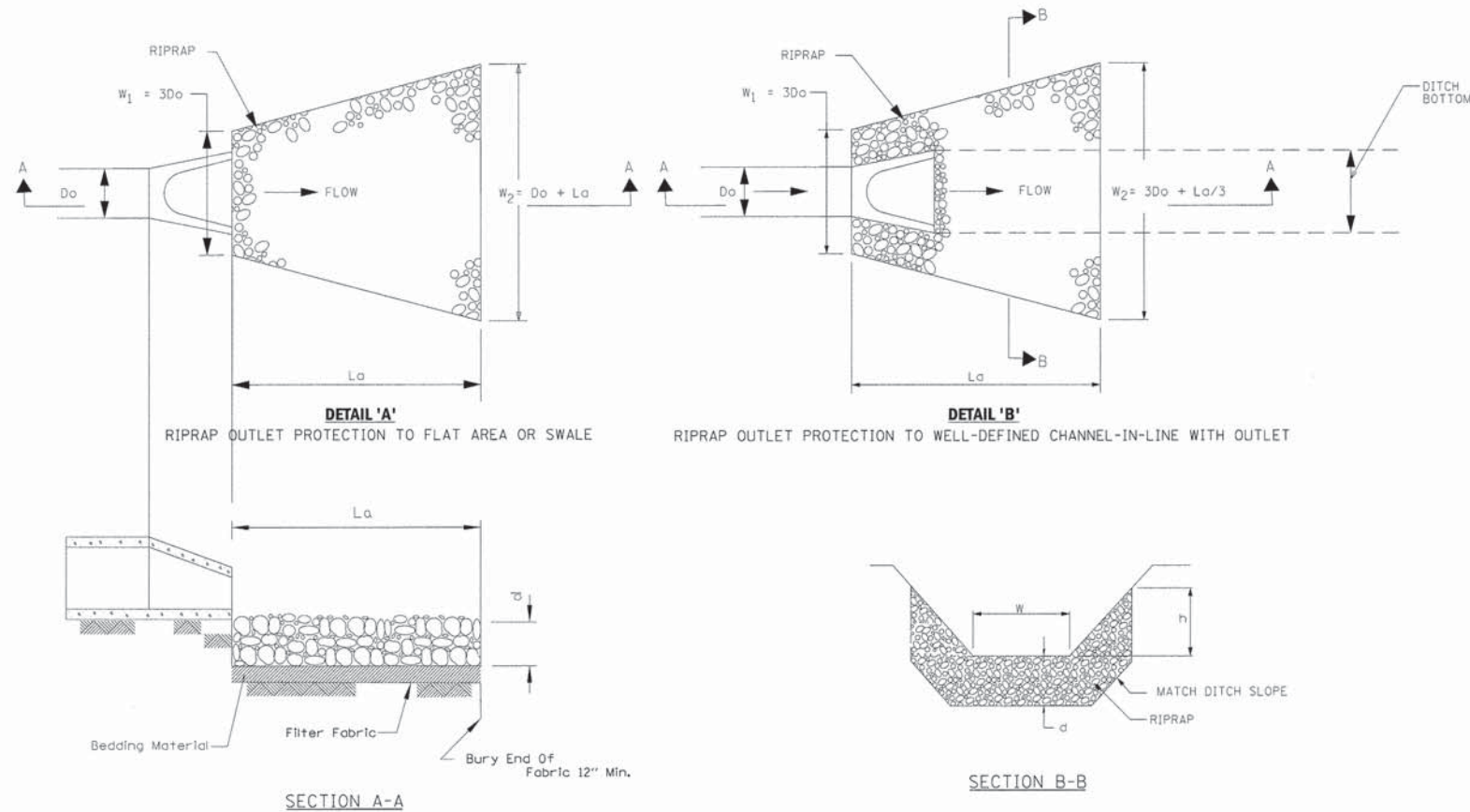
- LEGEND**
- SUPER SILT FENCE (PAID FOR AS PERIMETER EROSION BARRIER X2) SEE DETAIL D, SHEET NO.15
 - TURBIDITY CURTAIN
 - PERMANENT AGGREGATE DITCH CHECKS
 - TEMPORARY DITCH CHECKS
 - WETLAND BUFFER AREA
 - WETLAND IMPACT AREA
 - WOUS IMPACT AREA
 - R-1, R-2 -- ROCK OUTLET PROTECTION SEE DETAILS A & B, SHEET NO.15 (PAID FOR AS STONE RIPRAP, CLASS A3 AND FILTER FABRIC)
 - TREE PRUNING

- NOTES:**
- SEE LANDSCAPING PLAN FOR PERMANENT SODDING AND SEEDING.
 - SEE SHEET 13 FOR EROSION CONTROL NOTES.
 - EROSION CONTROL BLANKET SHALL BE USED FOR ALL PERMANENT SEEDING LOCATIONS.
 - INLET FILTERS SHALL BE PLACED ON ALL OPEN GRATE STRUCTURES.
 - TREE PROTECTION SHALL CONSIST OF A TEMPORARY FENCE AROUND THE TREE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 201 OF THE IDOT STANDARD SPECIFICATIONS. PAID FOR AS "TEMPORARY FENCE".



FILE NAME = G:\CH10\0065\Road\Sheets\10006SEC.dgn	USER NAME = CECmun	DESIGNED = CEC	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD EROSION AND SEDIMENT CONTROL PLANS		TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	CHECKED = DWB	REVISOR =	REVISOR =		0002	08-00358-00-BR	MCHENRY	61	14		
PLOT DATE = 2/9/2015	DATE = 02/02/2015	REVISOR =	REVISOR =		SHEET NO. 2 OF 3 SHEETS		STA.	TO STA.	CONTRACT NO. 61B05		
							ILLINOIS FED. AID PROJECT				

ROCK OUTLET PROTECTION

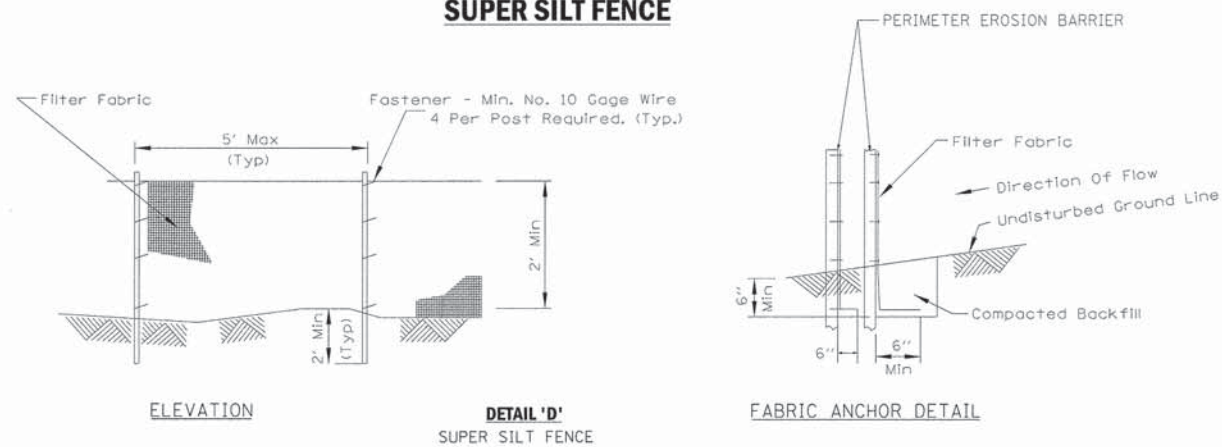


ROCK OUTLET PROTECTION TABLE

LOCATION	RIPRAP GRADATION	La (FT.)	RIPRAP (d) THICKNESS (IN)	BEDDING THICKNESS (INCH)	AREA (SQ YD)	DETAIL USED
R-1 (STA 113+66, 26.0° LT)	3	12	15	6	12.3	A
R-2 (STA 113+74, 30.0° RT)	3	12	15	6	12.3	A

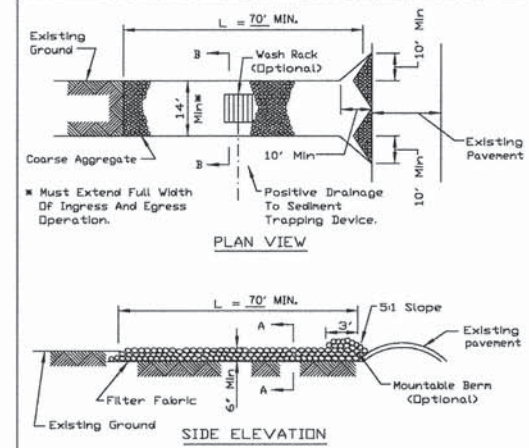
NOTES:
PAID PER SQ YD FOR RIPRAP, CLASS A3 AND PER SQ YD FOR FILTER FABRIC

SUPER SILT FENCE



NOTES:
1. PAID PER FOOT FOR PERIMETER EROSION BARRIER.
2. EACH FOOT OF SUPER SILT FENCE EQUALS 2 FEET OF PERIMETER EROSION BARRIER.
3. THE POSTS SHALL BE A MINIMUM OF 4 FEET LONG.

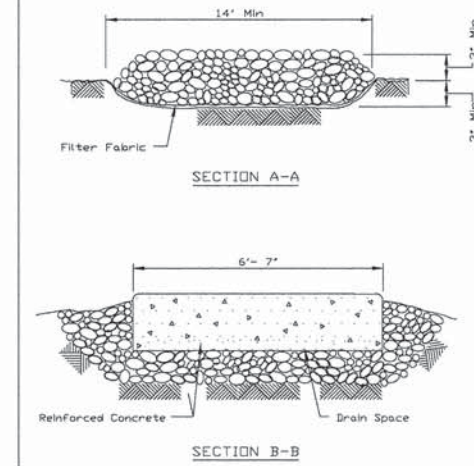
STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:
1. Filter fabric shall meet the requirements of material specification 992 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 manufacturer's specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project	DATE	STANDARD DWG. NO.
Designed	DATE	IL-630
Checked	DATE	SHEET 1 OF 2
Approved	DATE	DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE Project	DATE	STANDARD DWG. NO.
Designed	DATE	IL-630
Checked	DATE	SHEET 2 OF 2
Approved	DATE	DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE

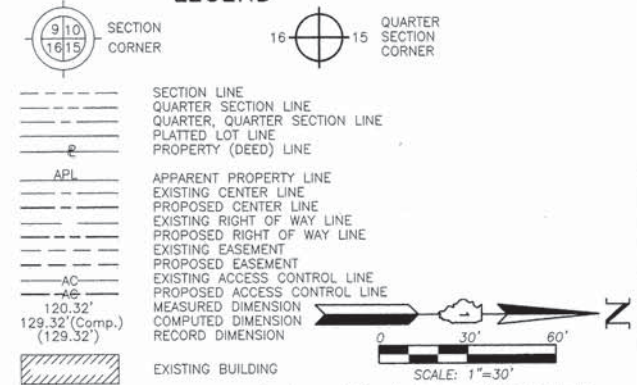
FILE NAME =	USER NAME = CECamr	DESIGNED - CEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY LINE ROAD EROSION AND SEDIMENT CONTROL PLANS		TR. RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 15	
C:\CHID\0865\Road\Sheets\102065ECDetail.dgn	PLOT SCALE = 50.0000' / 1" =	DRAWN - CEC	REVISED -		SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = 2/9/2015	CHECKED - DWB	REVISED -					CONTRACT NO. 61B05				
		DATE - 02/02/2015	REVISED -					CONTRACT NO. 61B05				

PART OF THE SE 1/4 OF SEC. 25, TWP. 44 N., R. 4 E. OF THE 3RD. P.M., IN BOONE COUNTY, ILLINOIS AND PART OF THE SW FRACT'L. 1/4 OF SEC. 30, TWP. 44 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0001P.E.-A 0001T.E.-A 0001T.E.-B	89.383	N/A	N/A	89.383	P.E.=0.138 T.E.-A=0.022 T.E.-B=10.775	N/A N/A N/A	Highway Purposes Grading Construction Purposes	06-25-400-009 06-36-200-002
0002P.E.-A 0002T.E.-A 0002T.E.-B	155.208	N/A	N/A	155.208	P.E.=0.005 T.E.-A=0.016 T.E.-B=0.058	200 N/A N/A	Highway Purposes Grading Grading	11-30-300-001

All dimensions are measured unless otherwise specified. Areas shown on this plot are ground. All measured and computed distances are grid not ground. To obtain ground distances, divide grid distances shown by the combined factor of 0.999954305.

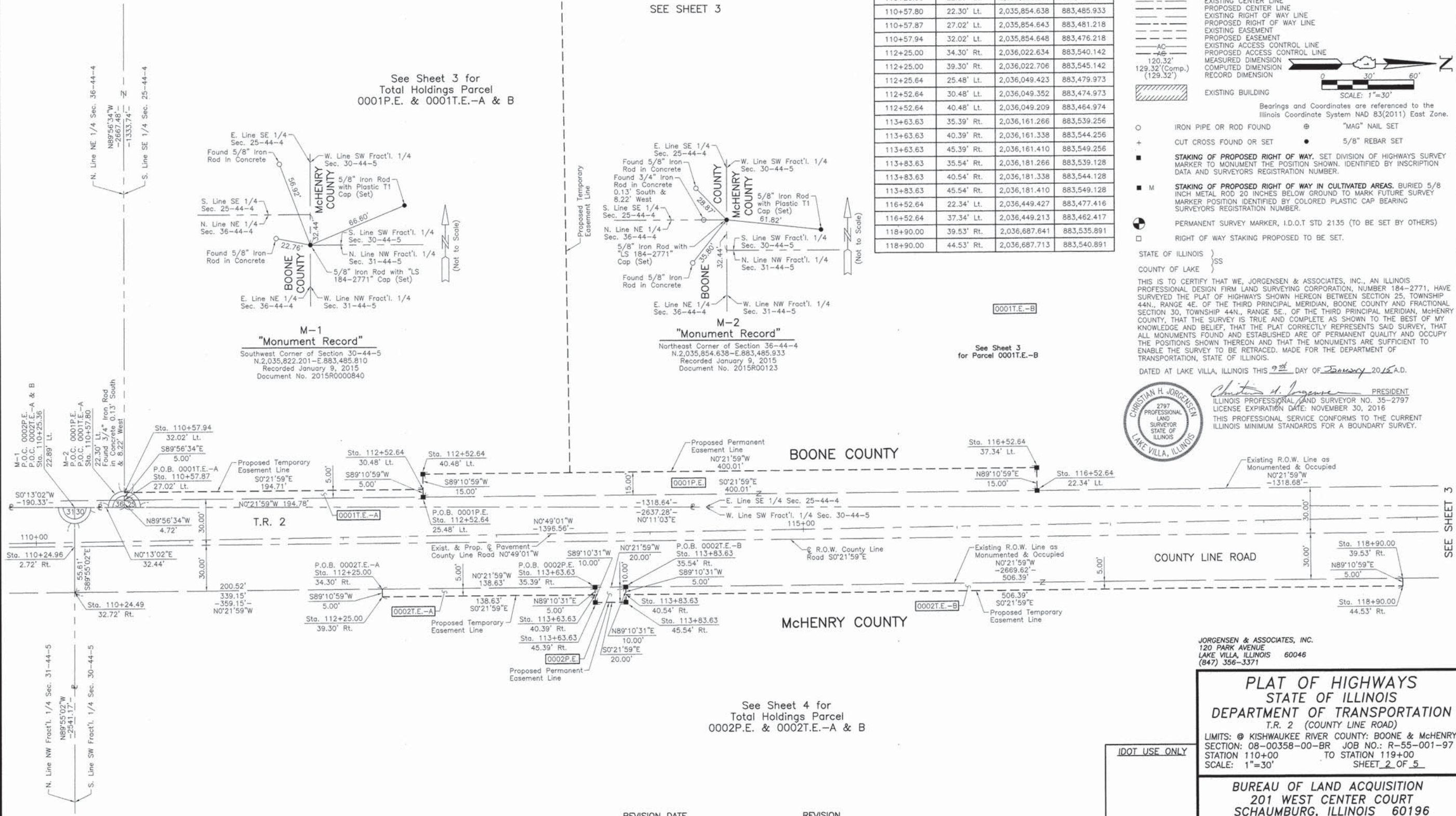
LEGEND



PROJECT COORDINATES			
Illinois Coordinate System NAD 83(2011) East Zone			
STATION	OFFSET	NORTH	EAST
110+24.49	32.72' Rt.	2,035,822.120	883,541.424
110+24.96	2.72' Rt.	2,035,822.164	883,511.425
110+25.36	22.89' Lt.	2,035,822.201	883,485.810
110+57.80	22.30' Lt.	2,035,854.638	883,485.933
110+57.87	27.02' Lt.	2,035,854.643	883,481.218
110+57.94	32.02' Lt.	2,035,854.648	883,476.218
112+25.00	34.30' Rt.	2,036,022.634	883,540.142
112+25.00	39.30' Rt.	2,036,022.706	883,545.142
112+25.64	25.48' Lt.	2,036,049.423	883,479.973
112+52.64	30.48' Lt.	2,036,049.352	883,474.973
112+52.64	40.48' Lt.	2,036,049.209	883,464.974
113+63.63	35.39' Rt.	2,036,161.266	883,539.256
113+63.63	40.39' Rt.	2,036,161.338	883,544.256
113+63.63	45.39' Rt.	2,036,161.410	883,549.256
113+83.63	35.54' Rt.	2,036,181.266	883,539.128
113+83.63	40.54' Rt.	2,036,181.338	883,544.128
113+83.63	45.54' Rt.	2,036,181.410	883,549.128
116+52.64	22.34' Lt.	2,036,449.427	883,477.416
116+52.64	37.34' Lt.	2,036,449.213	883,462.417
118+90.00	39.53' Rt.	2,036,687.641	883,535.891
118+90.00	44.53' Rt.	2,036,687.713	883,540.891

SEE SHEET 3

See Sheet 3 for Total Holdings Parcel 0001P.E. & 0001T.E.-A & B



Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2011) East Zone.

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

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 25, TOWNSHIP 44N., RANGE 4E. OF THE THIRD PRINCIPAL MERIDIAN, BOONE COUNTY AND FRACTIONAL SECTION 30, TOWNSHIP 44N., 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 22ND DAY OF January 2016 A.D.

Christian H. Jorgensen PRESIDENT
2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



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

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
T.R. 2 (COUNTY LINE ROAD)
LIMITS: @ KISHWAUKEE RIVER COUNTY: BOONE & McHENRY
SECTION: 08-00358-00-BR JOB NO.: R-55-001-97
STATION 110+00 TO STATION 119+00
SCALE: 1"=30' SHEET 2 OF 5

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

See Sheet 4 for Total Holdings Parcel 0002P.E. & 0002T.E.-A & B

REVISION DATE REVISION

PART OF THE SE 1/4 OF SEC. 25 AND PART OF THE NE 1/4 OF SEC. 36, TWP. 44 N., R. 4 E. OF THE 3RD. P.M., IN BOONE COUNTY, ILLINOIS AND PART OF THE SW FRACT'L. 1/4 OF SEC. 30 AND PART OF THE NW FRACT'L. 1/4 OF SEC. 31, TWP. 44 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

LEGEND

- SECTION CORNER, QUARTER SECTION CORNER, SECTION LINE, QUARTER SECTION LINE, QUARTER, QUARTER SECTION LINE, PLATTED LOT LINE, PROPERTY (DEED) LINE, APPL, 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, MEASURED DIMENSION, COMPUTED DIMENSION, RECORD DIMENSION, EXISTING BUILDING, IRON PIPE OR ROD FOUND, MAG NAIL SET, CUT CROSS FOUND OR SET, 5/8" REBAR SET, STAKING OF PROPOSED RIGHT OF WAY, STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, PERMANENT SURVEY MARKER, RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS, 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 25, TOWNSHIP 44N., RANGE 4E. OF THE THIRD PRINCIPAL MERIDIAN, BOONE COUNTY AND FRACTIONAL SECTION 31, TOWNSHIP 44N., 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 9th DAY OF January 20 15 A.D.

Signature of Christian H. Jorgensen, PRESIDENT, 2787 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS, LICENSE EXPIRATION DATE: NOVEMBER 30, 2016. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. All dimensions are measured unless otherwise specified. Areas shown on this plat are ground. All measured and computed distances are grid not ground. To obtain ground distances, divide grid distances shown by the combined factor of 0.999954305.

PROJECT COORDINATES table with columns: STATION, OFFSET, NORTH, EAST. Includes data for stations 108+67.24 through 116+52.64.

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

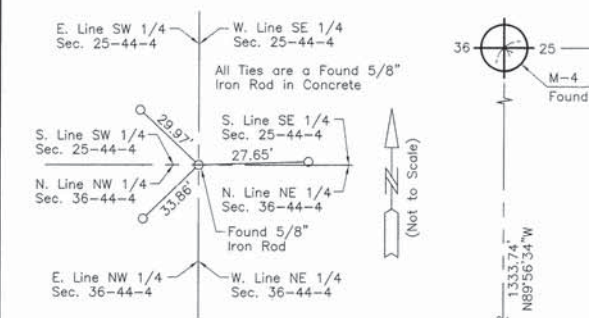
PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION T.R. 2 (COUNTY LINE ROAD) LIMITS: @ KISHWAUKEE RIVER COUNTY: BOONE & McHENRY SECTION: 08-00358-00-BR JOB NO.: R-55-001-97 STATION 108+00 TO STATION 124+00 SCALE: 1"=60' SHEET 3 OF 5

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

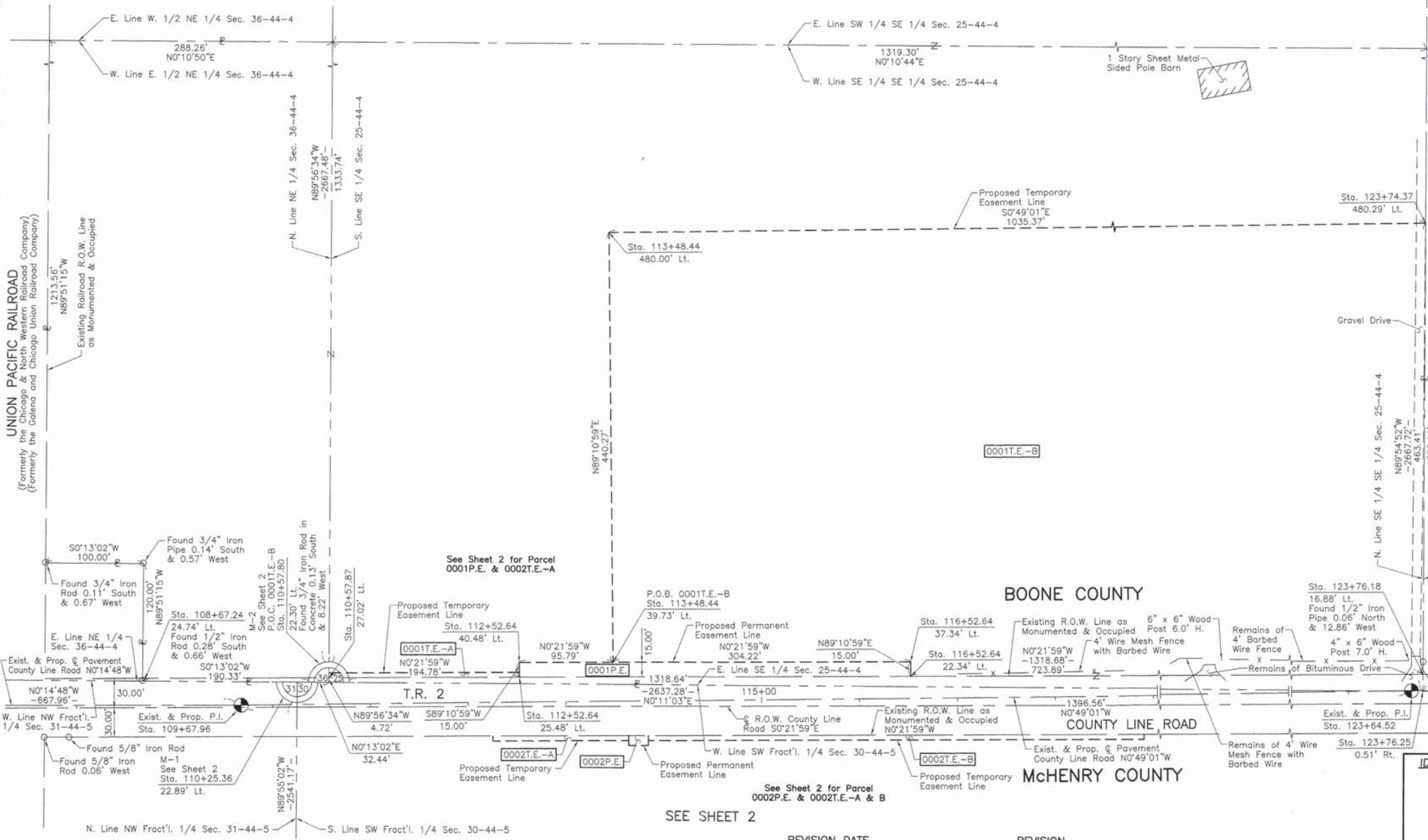
TOTAL SHEETS: 61 SHEET NO.: 17

Table with columns: PARCEL NUMBER, TOTAL HOLDINGS ACRES, PART TAKEN ACRES, AREA IN EXISTING R.O.W. ACRES, REMAINDER AREA ACRES, EASEMENT AREA ACRES, EASEMENT PURPOSE, PERMANENT INDEX NUMBER.

PROJECT COORDINATES table with columns: STATION, OFFSET, NORTH, EAST. Includes data for stations 116+52.64 through 123+76.25.



M-4 "Monument Record" North 1/4 Corner of Section 36-44-4 N. 2,035,857.308-E. 880,818.452 Recorded January 9, 2015 Document No. 2015R00123



UNION PACIFIC RAILROAD (Formerly the Chicago & North Western Railroad Company) (Formerly the Galena and Chicago Union Railroad Company)

BOONE COUNTY

McHENRY COUNTY

SEE SHEET 2

REVISION DATE REVISION

PART OF THE SE 1/4 OF SEC. 25, TWP. 44 N., R. 4 E. OF THE 3RD. P.M., IN BOONE COUNTY, ILLINOIS AND PART OF THE SW FRACT'L. 1/4 OF SEC. 30, TWP. 44 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
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DIMENSION

EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2011) East Zone.

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

■ 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 }
 COUNTY OF LAKE }SS

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 25, TOWNSHIP 44N., RANGE 4E. OF THE THIRD PRINCIPAL MERIDIAN, BOONE COUNTY AND FRACTIONAL SECTION 30, TOWNSHIP 44N., 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 9TH DAY OF January 2015 A.D.

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

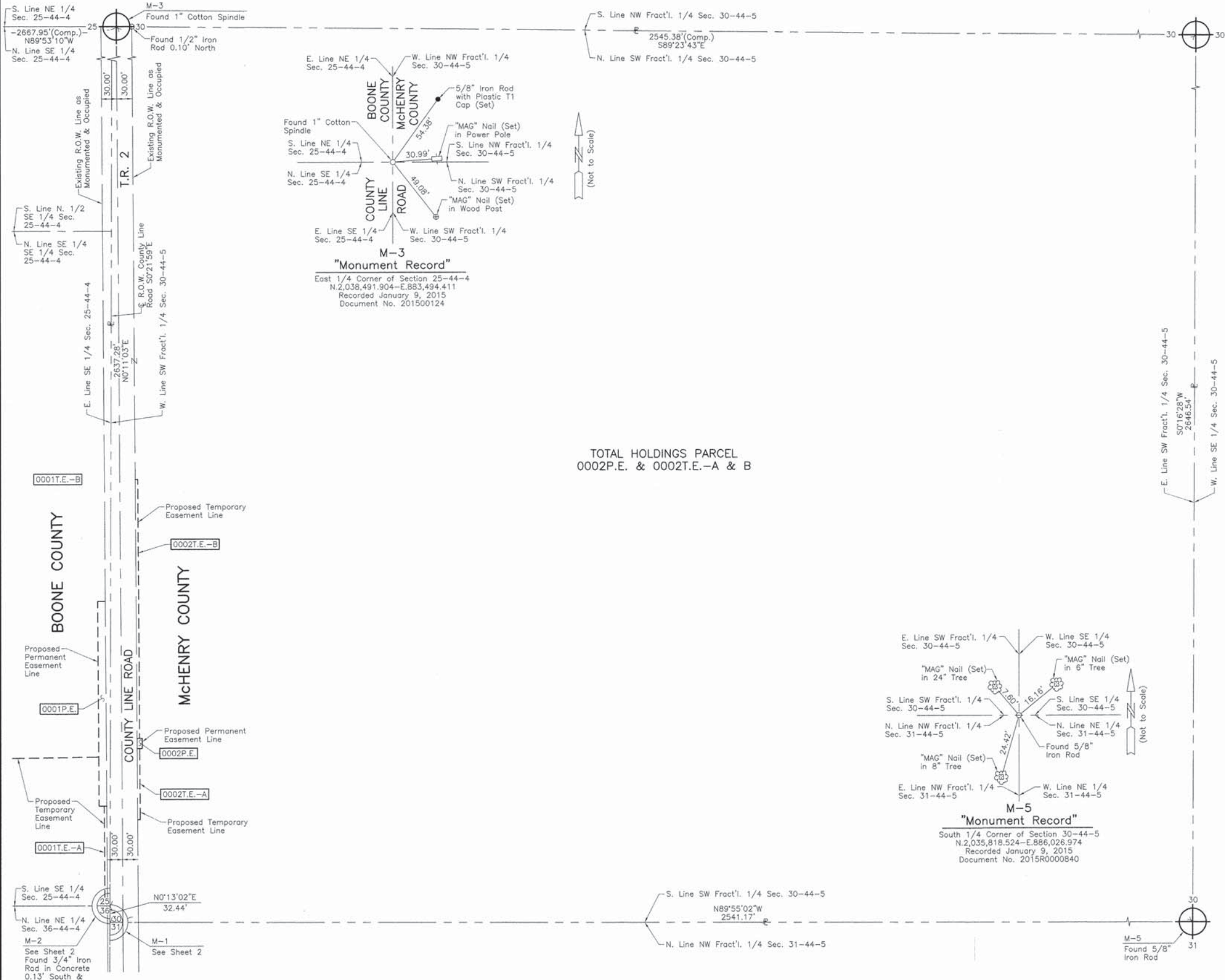
Christian H. Jorgensen PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
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JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 T.R. 2 (COUNTY LINE ROAD)

LIMITS: @ KISHWAUKEE RIVER COUNTY: BOONE & McHENRY
 SECTION: 08-00358-00-BR JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 4 OF 5

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



TOTAL HOLDINGS PARCEL 0002P.E. & 0002T.E.-A & B

IDOT USE ONLY

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 T.R. 2 (COUNTY LINE ROAD)

LIMITS: @ KISHWAUKEE RIVER COUNTY: BOONE & McHENRY
 SECTION: 08-00358-00-BR JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 4 OF 5

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

PART OF THE SE 1/4 OF SEC. 25 AND PART OF THE NE 1/4 OF SEC. 36, TWP. 44 N., R. 4 E. OF THE 3RD. P.M., IN BOONE COUNTY, ILLINOIS AND PART OF THE SW FRACT'L. 1/4 OF SEC. 30 AND PART OF THE NW FRACT'L. 1/4 OF SEC. 31, TWP. 44 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

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
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DIMENSION

EXISTING BUILDING

SCALE: 1"=100'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2011) East Zone.

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

■ 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.

All dimensions are measured unless otherwise specified. Areas shown on this plat are ground. All measured and computed distances are grid not ground. To obtain ground distances, divide grid distances shown by the combined factor of 0.999954305.

PROJECT COORDINATES
Illinois Coordinate System NAD 83(2011) East Zone

STATION	NORTH	EAST
103+00.00	2,035,097.176	883,512.391
109+67.96	2,035,765.130	883,509.514
110+90.00	2,035,887.158	883,507.774
118+90.00	2,036,687.076	883,496.368
123+64.52	2,037,161.553	883,489.602
135+64.74	2,038,361.756	883,496.084

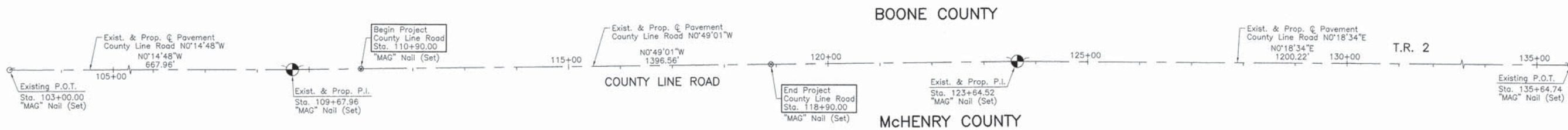
STATE OF ILLINOIS }
COUNTY OF LAKE }SS

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 25, TOWNSHIP 44N., RANGE 4E. OF THE THIRD PRINCIPAL MERIDIAN, BOONE COUNTY AND FRACTIONAL SECTION 31, TOWNSHIP 44N., 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 31st DAY OF December 2014 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.



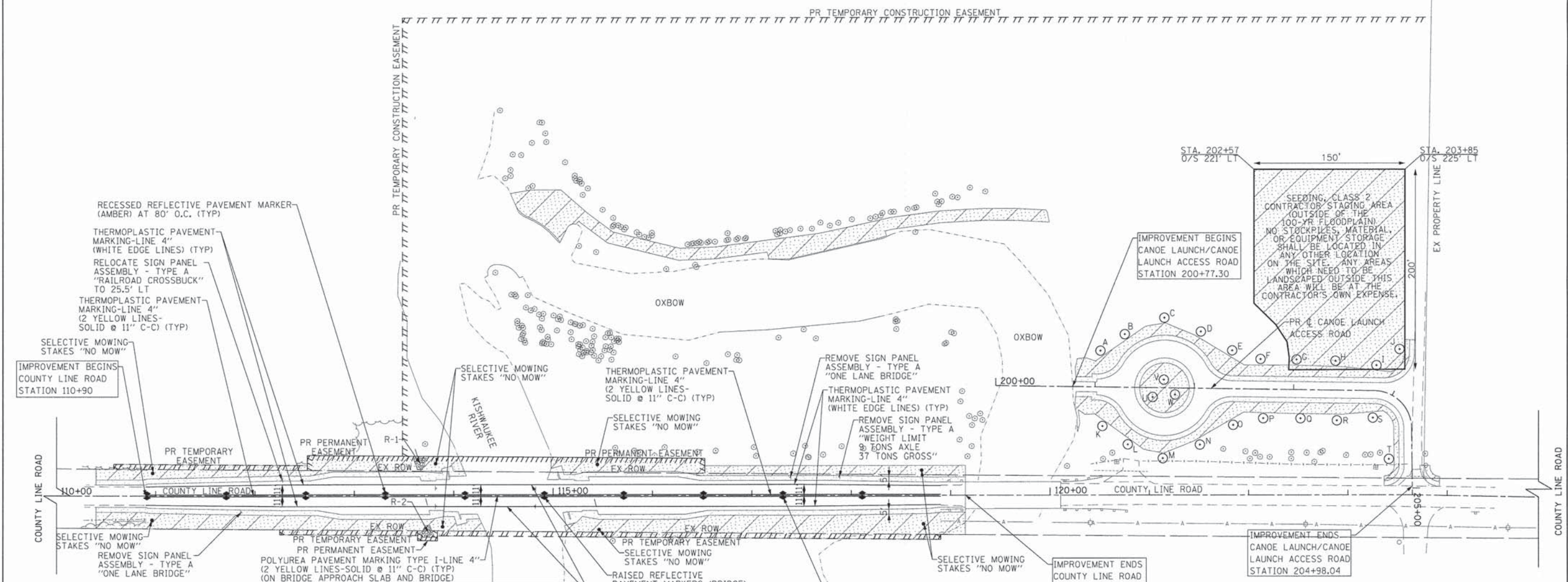
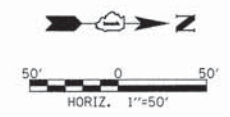
JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
T.R. 2 (COUNTY LINE ROAD)

LIMITS: @ KISHWAUKEE RIVER COUNTY: BOONE & McHENRY
SECTION: 08-00358-00-BR JOB NO.: R-55-001-97
STATION 103+00.00 TO STATION 135+64.74
SCALE: 1"=100' SHEET 5 OF 5

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

REVISION DATE REVISION



TREE REPLACEMENT						
TREE	IDOT CODE	SCIENTIFIC NAME	COMMON NAME	STATION	OFFSET	
A	A2007820	TILIA AMERICANA	AMERICAN BASSWOOD	201+05	37	LT
B	A2002920	CELTIS OCCIDENTALIS	HACKBERRY	201+29	54	LT
C	A2006520	QUERCUS BICOLOR	SWAMP WHITE OAK	201+69	71	LT
D	B2001620	CRATAEGUS CRUSGALLI INERMIS	THORN LESS COCKSPUR HAWTHORN	202+06	57	LT
E	A2005020	GYMNOCLADUS DIOICUS	KENTUCKY COFFEE TREE	202+38	39	LT
F	A2007120	QUERCUS RUBRA	NORTHERN RED OAK	202+66	31	LT
G	A2004620	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEY-LOCUST	203+03	31	LT
H	A2007820	TILIA AMERICANA	AMERICAN BASSWOOD	203+42	30	LT
I	A2002920	CELTIS OCCIDENTALIS	HACKBERRY	203+82	26	LT
J	A2006520	QUERCUS BICOLOR	SWAMP WHITE OAK	203+93	46	LT
K	B2001620	CRATAEGUS CRUSGALLI INERMIS	THORN LESS COCKSPUR HAWTHORN	201+08	40	RT
L	A2005020	GYMNOCLADUS DIOICUS	KENTUCKY COFFEE TREE	201+34	58	RT
M	A2007120	QUERCUS RUBRA	NORTHERN RED OAK	201+69	71	RT
N	A2004620	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEY-LOCUST	202+06	57	RT
O	A2007820	TILIA AMERICANA	AMERICAN BASSWOOD	202+40	37	RT
P	A2002920	CELTIS OCCIDENTALIS	HACKBERRY	202+70	30	RT
Q	A2006520	QUERCUS BICOLOR	SWAMP WHITE OAK	203+07	29	RT
R	B2001620	CRATAEGUS CRUSGALLI INERMIS	THORN LESS COCKSPUR HAWTHORN	203+44	31	RT
S	A2005020	GYMNOCLADUS DIOICUS	KENTUCKY COFFEE TREE	203+80	28	RT
T	A2007120	QUERCUS RUBRA	NORTHERN RED OAK	204+70	24	RT
U	A2004620	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEY-LOCUST	201+58	10	RT
V	A2007820	TILIA AMERICANA	AMERICAN BASSWOOD	201+69	9	LT
W	A2002920	CELTIS OCCIDENTALIS	HACKBERRY	201+81	7	RT

LEGEND

- TWO-WAY RECESSED REFLECTIVE PAVEMENT MARKER (AMBER)
- SEEDING, CLASS 4A
TOPSOIL FURNISH AND PLACE, 6"
EROSION CONTROL BLANKET (KNITTED STRAW MAT ONLY)
HEAVY DUTY EROSION CONTROL BLANKET
ON SLOPES STEEPER THAN 3:1
(STA 113+13 TO 113+95 LT FORESLOPE,
STA 115+04 TO 116+00 LT FORESLOPE,
STA 113+21 TO 114+07 RT FORESLOPE,
AND STA 115+15 TO 116+05 RT FORESLOPE)
- SEEDING, CLASS 2
TOPSOIL FURNISH AND PLACE, 6"
EROSION CONTROL BLANKET (KNITTED STRAW MAT ONLY)
HEAVY DUTY EROSION CONTROL BLANKET
ON SLOPES STEEPER THAN 3:1
(STA 113+13 TO 113+95 LT FORESLOPE,
STA 115+04 TO 116+00 LT FORESLOPE,
STA 113+21 TO 114+07 RT FORESLOPE,
AND STA 115+15 TO 116+05 RT FORESLOPE)
- PROPOSED TREE
- R-1, R-2 -- ROCK OUTLET PROTECTION
SEE DETAILS A & B SHEET NO. 15
(PAID FOR AS STONE RIPRAP,
CLASS A3 AND FILTER FABRIC)

FILE NAME =	USER NAME = CECamun	DESIGNED - CEC	REVISED -
G:\CH02\0885\Road\Sheets\100865PHL5C.dgn		DRAWN - CEC	REVISED -
	PLOT SCALE = 50,0000 "/> <td>CHECKED - DWB</td> <td>REVISED -</td>	CHECKED - DWB	REVISED -
	PLOT DATE = 2/9/2015	DATE = 02/02/2015	REVISED -

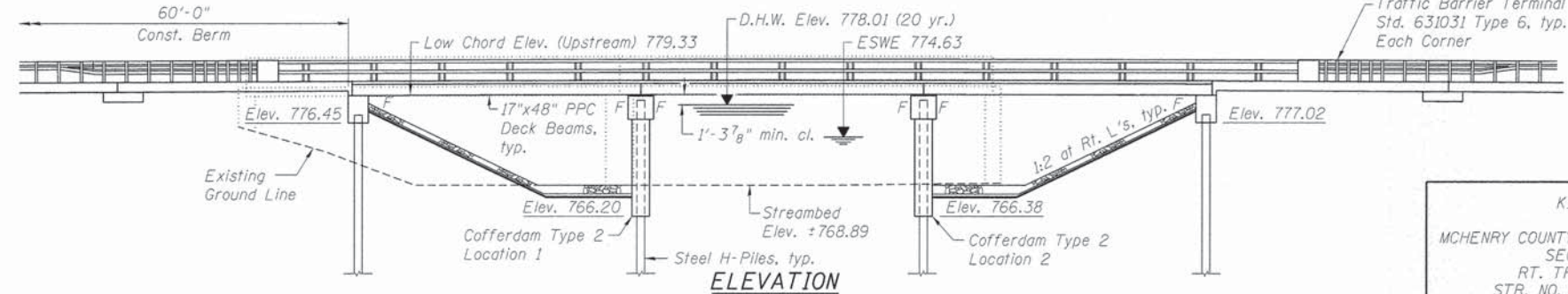
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY LINE ROAD
PAVEMENT MARKING AND LANDSCAPING PLAN**

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	20
SHEET NO. 1 OF 1 SHEETS			CONTRACT NO. 61B05	
STA. TO STA.		ILLINOIS FED. AID PROJECT		

Bench Mark: Box cut set in Northwest corner of Concrete Abutment of Oxbow Bridge 500' North. Elev. 780.87.
 Existing Structure: S.N. 056-3040 built in 1921 consists of a two span concrete through girder without a floor beam system.
 96'-8" back-to-back of abutments, 20'-1" out-to-out deck.
 Structure will be removed and replaced utilizing a detour route for construction.

Salvage: Existing Steel Sheeting. See General Note 8.



Note:
 The cost for a dewatering system to place filter fabric, bedding material and riprap shall be included with Cofferdam Type 2 Location 1 or Cofferdam Type 2 Location 2.
 ComEd Line to be relocated to the east at ROW. Minimum construction clearance required by ComEd shall be provided during construction.

LEGEND

Indicates Soil Boring Location

DESIGN STRESSES

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

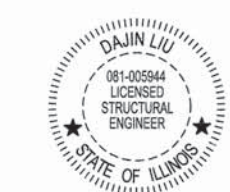
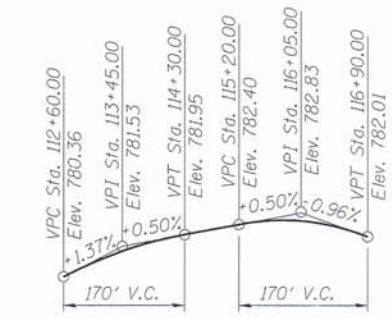
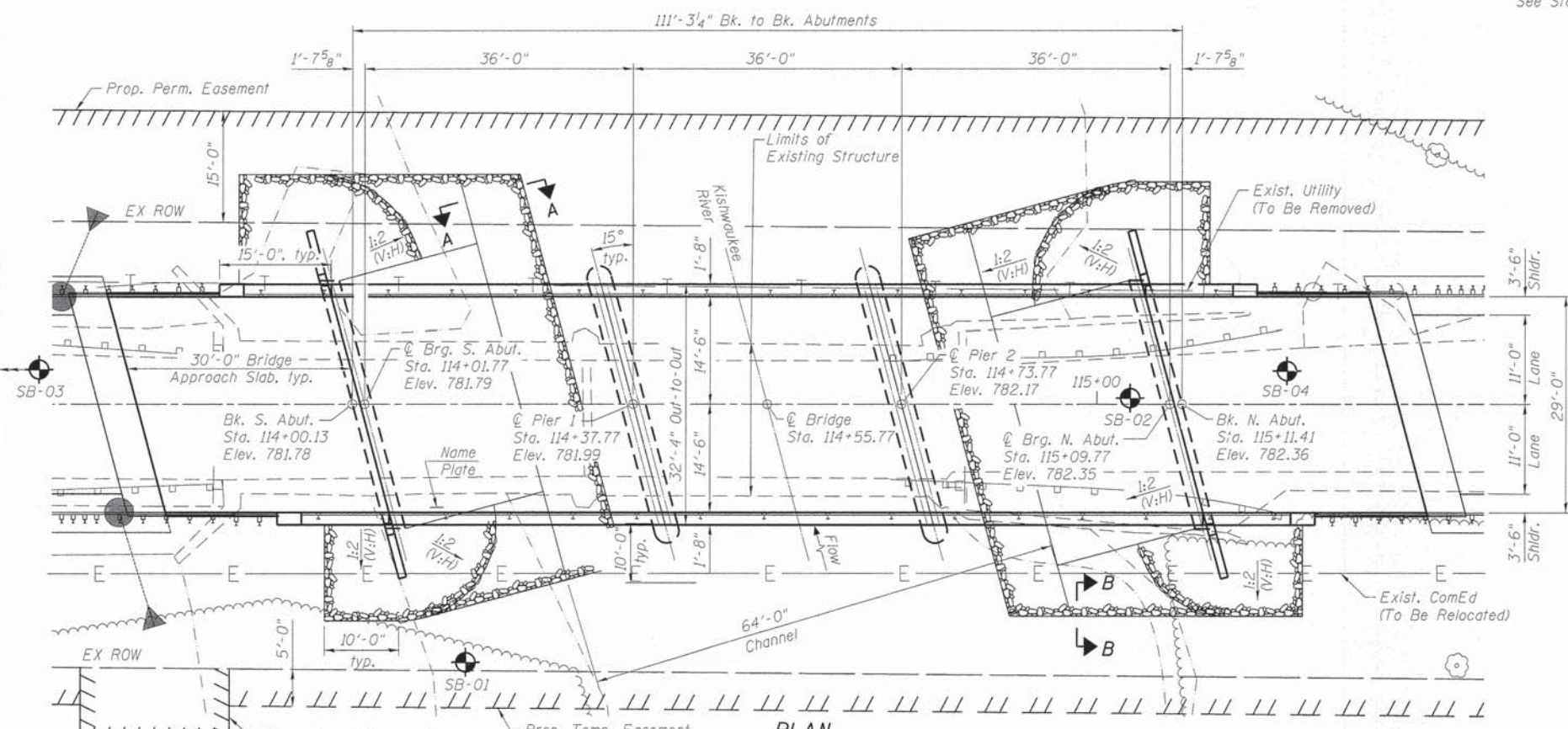
PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ low relax. strands)
 $f'_si = 201,960$ psi ($\frac{1}{2}$ " ϕ low relax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.19g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.218g
 Soil Site Class = D

KISHWAUKEE RIVER
 BUILT 201 BY
 MCHENRY COUNTY DIVISION OF TRANSPORTATION
 SEC. 08-00358-00-BR
 RT. TR 0002 STA. 114+55.77
 STR. NO. 056-3194 LOADING HL-93

NAME PLATE
 See Std. 515001



Dajin Liu
 Dajin Liu, P.E., S.E.
 NO. 081-005944
 EXP. DATE 11/30/2016

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

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

DESIGN SCOUR ELEVATION TABLE

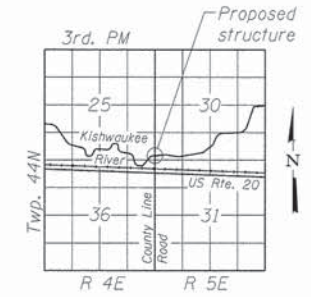
Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
100 yr.	776.45	757.91	757.91	777.02
500 yr.	776.45	748.93	748.93	777.02

WATERWAY INFORMATION

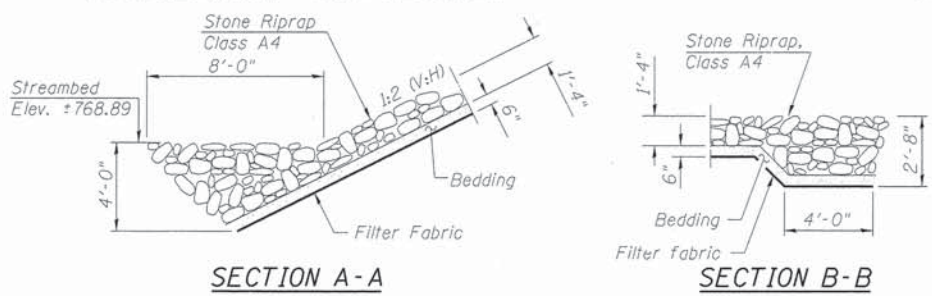
Drainage Area = 220.5 mi² Low Grade Elev. 778.74 at Sta. 109+34

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
10	10	5070	840	846	777.74	1.37	1.06	779.10	778.80
Design	20	5875	866	877	778.01	2.03	1.26	780.03	779.27
Base	100	9780	973	1009	779.14	2.93	1.37	782.06	780.51
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	13600	1057	1115	780.02	2.28	2.49	782.29	782.51

10 year velocity through existing bridge = 4.66 fps and through proposed bridge = 5.04 fps



GENERAL PLAN & ELEVATION
COUNTY LINE ROAD
OVER KISHWAUKEE RIVER
ROUTE TR 0002 - SEC. 08-00358-00-BR
MCHENRY COUNTY
STATION 114+55.77
STRUCTURE NO. 056-3194



	USER NAME = CEComn	DESIGNED - KAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 056-3194	TR RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 21
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - DL	REVISED -			SHEET NO. 61	CONTRACT NO. 61B05			
2/9/2015	PLOT DATE = 2/9/2015	CHECKED - DL	REVISED -	SHEET NO. S-1 OF S-17 SHEETS		ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- The Contractor shall take extreme caution during all phases of construction to prevent the deposition of any material into Kishwaukee River. Demolition and construction activities within the floodplain shall be limited to the grading limits shown on the grading detail. All proposed construction activities shall be in accordance with Nationwide Permit Number 36 and Regional Permit Number 38 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issue Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.
- The contractor is advised that the existing structure contains members that are in deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the existing structure when developing construction procedures for removal.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- The Illinois Department of Transportation is not the owner of record for this bridge. Those seeking historic as-built or other record plans and documents must contact the owner of record. To make arrangements for access to this information please contact:

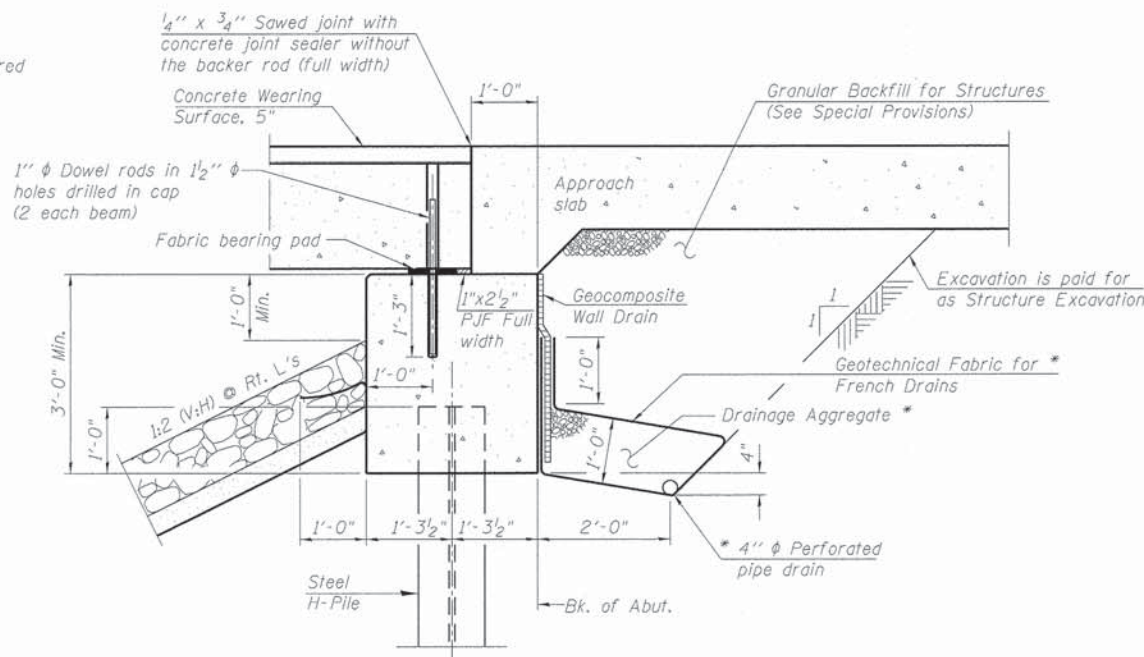
Wally Dittich, Design Manager
 McHenry County Department of Transportation
 (815) 334-4980

- Existing steel sheeting around the abutments shall be removed and delivered to the Marengo Township Highway Department:

4010 Illinois 23
 Marengo, IL 60152
 (815) 568-8636

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes, Bill of Material and Index of Sheets
- S-3 Top of South Approach Slab Elevations
- S-4 Top of North Approach Slab Elevations
- S-5 Superstructure Plan and Cross Section
- S-6 Superstructure Details
- S-7 Bridge Approach Slab Details 1
- S-8 Bridge Approach Slab Details 2
- S-9 Steel Railing Details
- S-10 17"x48" PPC Deck Beam Details 1
- S-11 17"x48" PPC Deck Beam Details 2
- S-12 Abutment Details
- S-13 Pier Details
- S-14 HP Pile Details
- S-15 Soil Boring 1
- S-16 Soil Boring 2
- S-17 Soil Boring 3



SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

* Included in the cost of the Pipe Underdrains for Structures 4". (See Special Provisions)

Note:
 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).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		265	265
Stone Riprap, Class A4	Sq. Yd.		451	451
Filter Fabric	Sq. Yd.		451	451
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		20	20
Cofferdam Excavation	Cu. Yd.		194	194
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.	19.2	120.9	140.1
Concrete Superstructure	Cu. Yd.	94.2		94.2
Bridge Deck Grooving	Sq. Yd.	546		546
Protective Coat	Sq. Yd.	626		626
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	3,490		3,490
Reinforcement Bars, Epoxy Coated	Pound	32,430	10,260	42,690
Furnishing Steel Piles HP12x53	Foot		448	448
Furnishing Steel Piles HP14x73	Foot		530	530
Driving Piles	Foot		978	978
Test Pile Steel HP12x53	Each		2	2
Test Pile Steel HP14x73	Each		2	2
Pile Shoes	Each		22	22
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		35	35
Concrete Wearing Surface, 5"	Sq. Yd.	389		389
Granular Backfill For Structures	Cu. Yd.		57	57
Steel Railing (Special)	Foot	266		266
Pipe Underdrains for Structures 4"	Foot		105	105

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIAL AND INDEX OF SHEETS
 STRUCTURE NO. 056-3194**

SHEET NO. S-2 OF S-17 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	22
				CONTRACT NO. 61B05
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

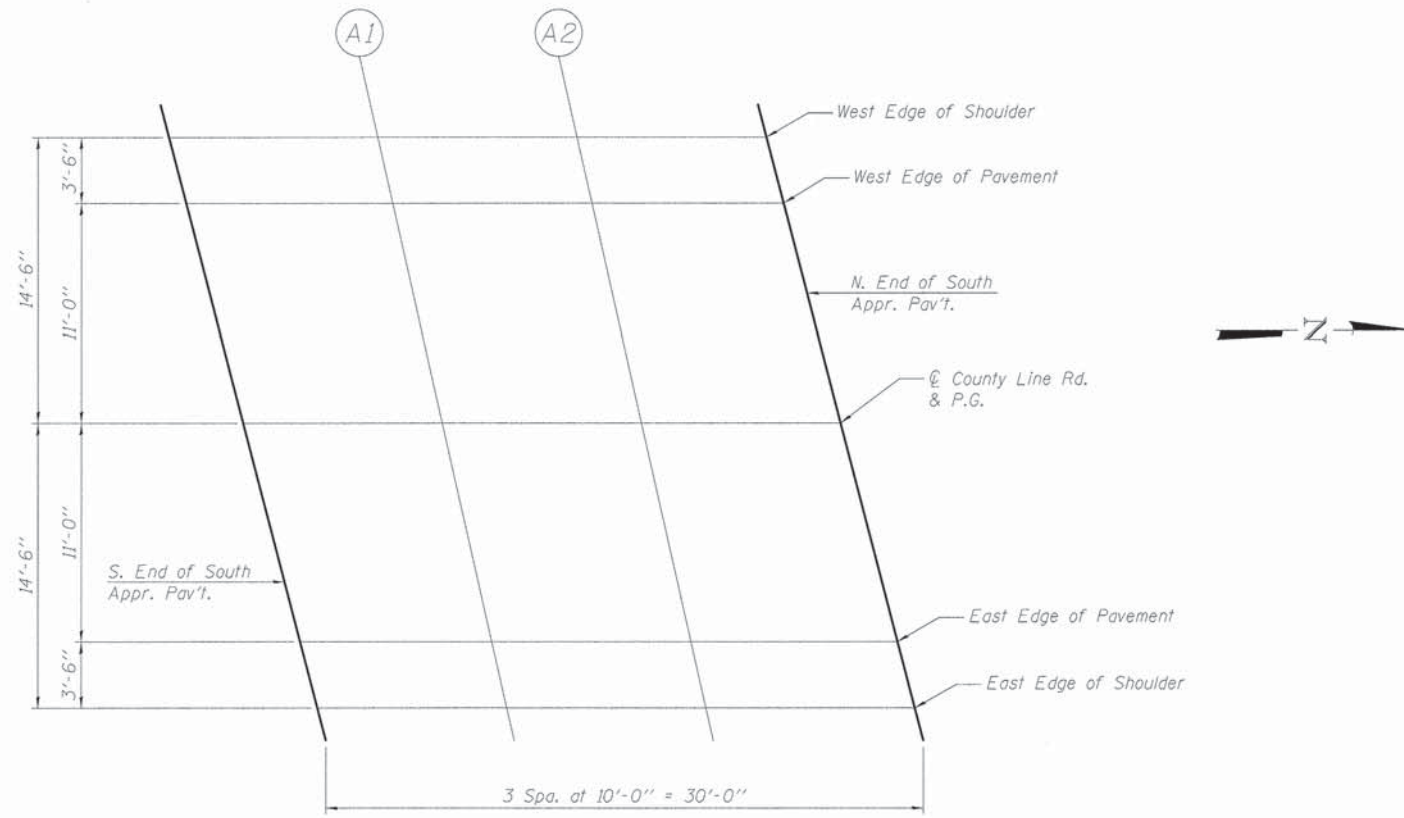
Location	Station	Offset (ft)	Theoretical Grade Elevations
S. End North Appr. Pav't	113+67.28	-14.50	781.25
A1	113+77.28	-14.50	781.33
A2	113+87.28	-14.50	781.40
N. End North Appr. Pav't	113+97.28	-14.50	781.47

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
S. End North Appr. Pav't	113+68.22	-11.00	781.32
A1	113+78.22	-11.00	781.40
A2	113+88.22	-11.00	781.48
N. End North Appr. Pav't	113+98.22	-11.00	781.55

© ROADWAY AND PROFILE GRADE

Location	Station	Offset (ft)	Theoretical Grade Elevations
S. End North Appr. Pav't	113+71.17	0.00	781.57
A1	113+81.17	0.00	781.64
A2	113+91.17	0.00	781.72
N. End North Appr. Pav't	114+01.17	0.00	781.78



PLAN
South Approach

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
S. End North Appr. Pav't	113+74.11	11.00	781.37
A1	113+84.11	11.00	781.45
A2	113+94.11	11.00	781.52
N. End North Appr. Pav't	114+04.11	11.00	781.58

EAST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
S. End North Appr. Pav't	113+75.05	14.50	781.31
A1	113+85.05	14.50	781.38
A2	113+95.05	14.50	781.45
N. End North Appr. Pav't	114+05.05	14.50	781.52

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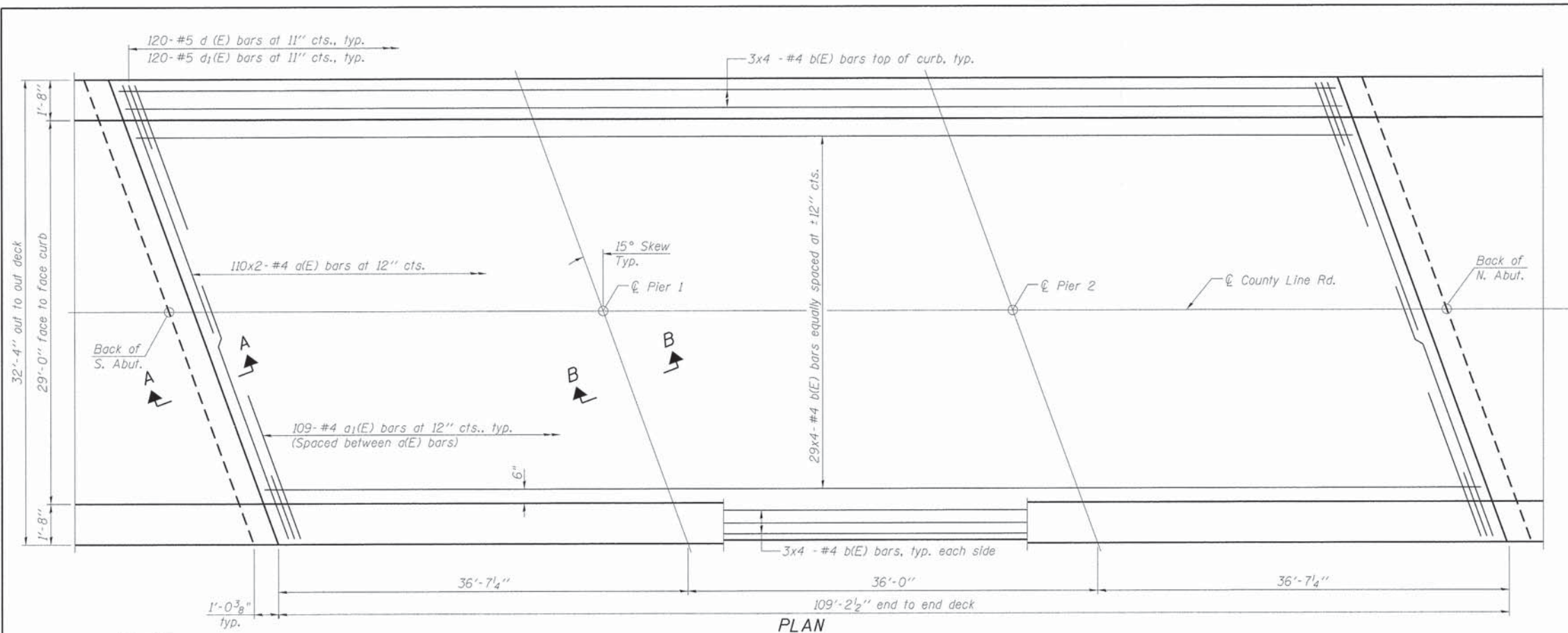
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

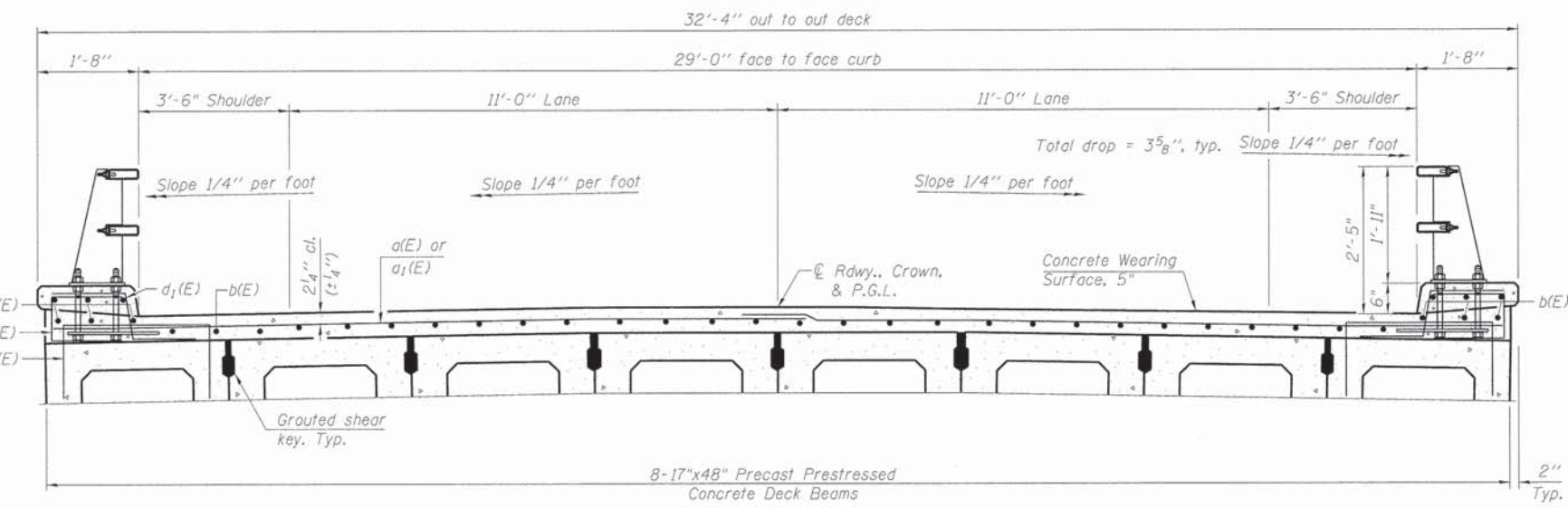
TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-3194

SHEET NO. S-3 OF S-17 SHEETS

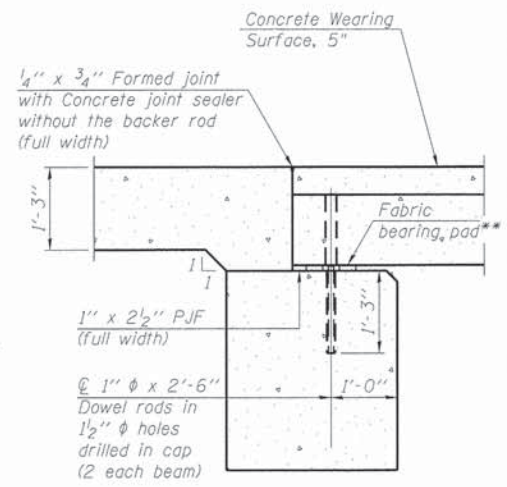
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CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				



PLAN

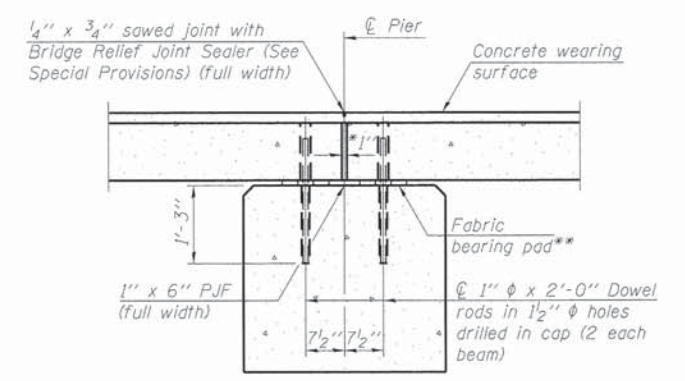


CROSS SECTION
(Looking North)



SECTION A-A

- Notes:
- All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
 - See sheet S-11 for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1' Jt. shall be filled with non-shrink grout. 1' dimension may vary to accommodate tolerance in beam lengths.

** Cost included with Precast Prestressed Concrete Deck Beams (17" Depth).

MINIMUM BAR LAP
#4 bar = 2'-7"

- Notes:
- See sheet S-6 of S-17 for Superstructure Details and Bill of Material.
 - Bars indicated thus 20x2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
 - For location of railing posts and anchor bolts see elevation on sheet S-9.

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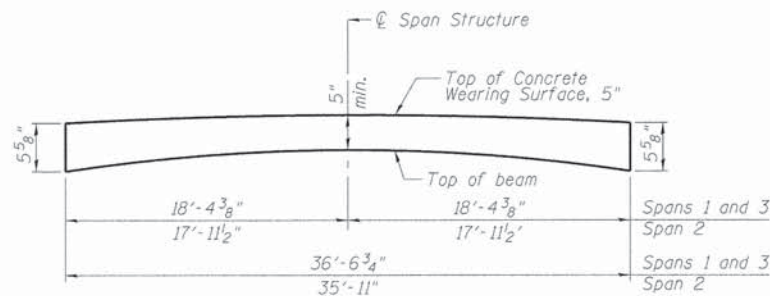


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PLOT DATE = 2/9/2015	DRAWN - RVV	REVISED -
	CHECKED - DL	REVISED -

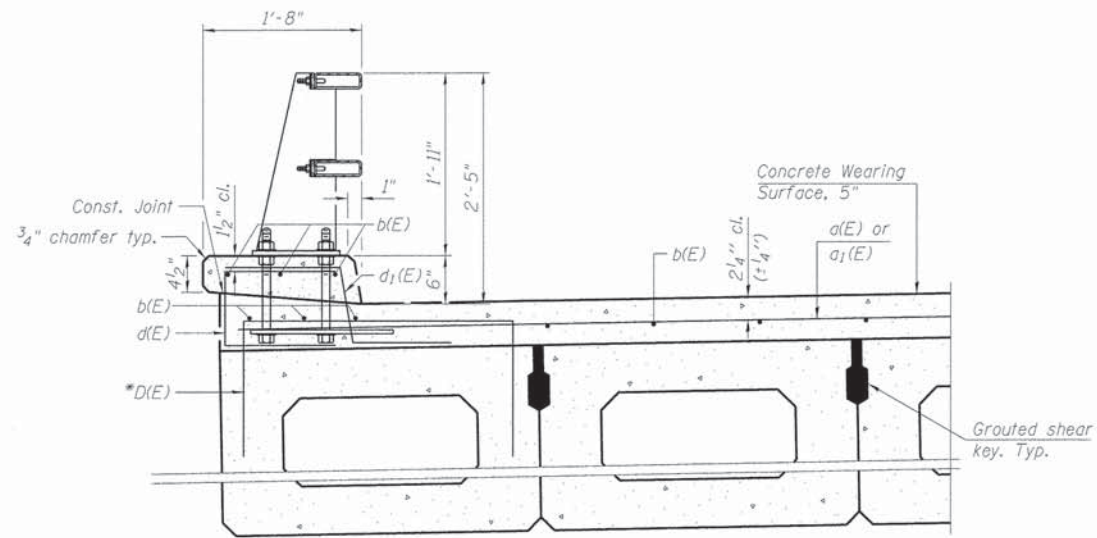
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 056-3194
SHEET NO. S-5 OF S-17 SHEETS

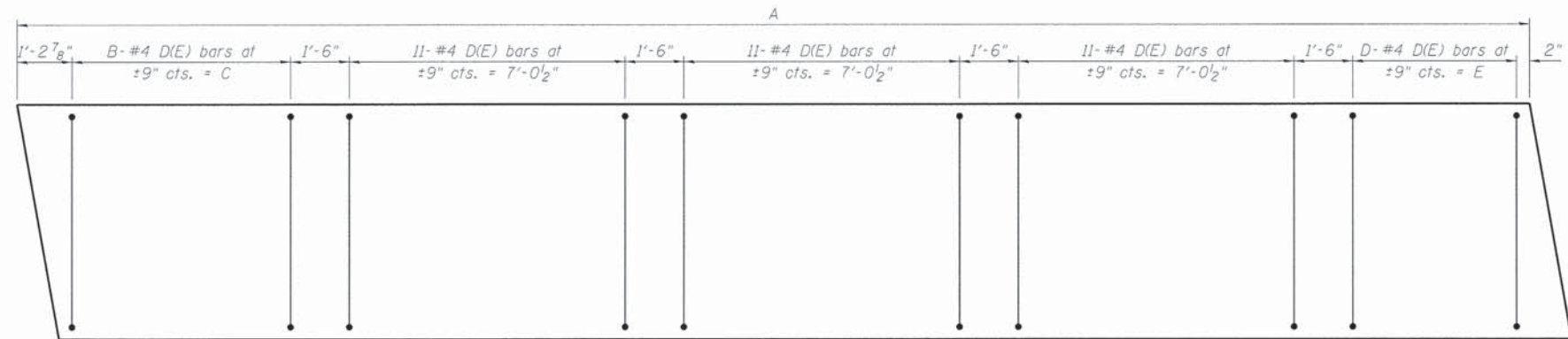
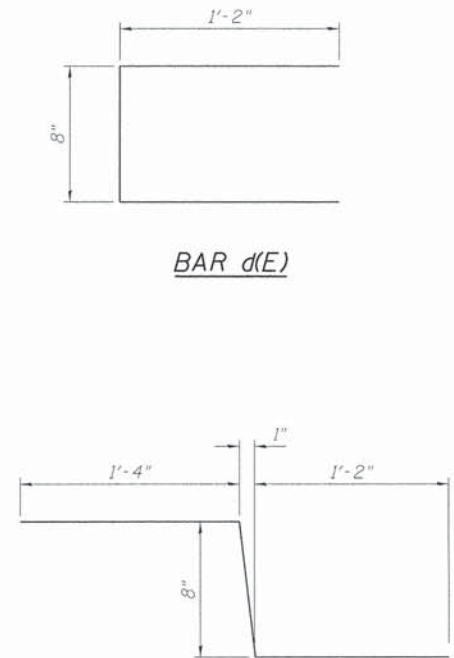
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	25
				CONTRACT NO. 61B05
ILLINOIS FED. AID PROJECT				



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)



* Place #4 D(E) bars spaced as shown on this sheet in fascia beam. D(E) bar included in cost of Precast Prestressed Concrete Deck Beams (17" Depth). Curb paid for as Concrete Superstructure.



PLAN - D(E) BAR LAYOUT**

** D(E) shall miss rail post anchor bolts. See sheet S-9 of S-17 for anchor bolt layout.

Location	A	B	C	D	E
West Beam - Span 1	36'-6 3/4"	9	6'-0 1/2"	4	1'-11 7/8"
West Beam - Span 2	35'-11"	6	3'-6 3/4"	6	3'-9 7/8"
West Beam - Span 3	36'-6 3/4"	4	1'-8 3/4"	10	6'-3 5/8"
East Beam - Span 1	36'-6 3/4"	10	6'-3 5/8"	4	1'-8 3/4"
East Beam - Span 2	35'-11"	6	3'-9 7/8"	6	3'-6 3/4"
East Beam - Span 3	36'-6 3/4"	4	1'-11 7/8"	9	6'-0 1/2"

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	220	#4	17'-2"	—
a1(E)	218	#4	6'-0"	—
b(E)	152	#4	29'-2"	—
d(E)	238	#5	3'-0"	⌊
d1(E)	238	#5	3'-2"	⌋
Concrete Superstructure			Cu. Yd.	6.7
Bridge Deck Grooving			Sq. Yd.	352
Protective Coat			Sq. Yd.	405
Reinforcement Bars, Epoxy Coated			Pound	7,890
Concrete Wearing Surface, 5"			Sq. Yd.	389

Bars indicated thus 1x2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

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PLT DATE = 2/9/2015	DRAWN - RVV	REVISED -
	CHECKED - KAH/DL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

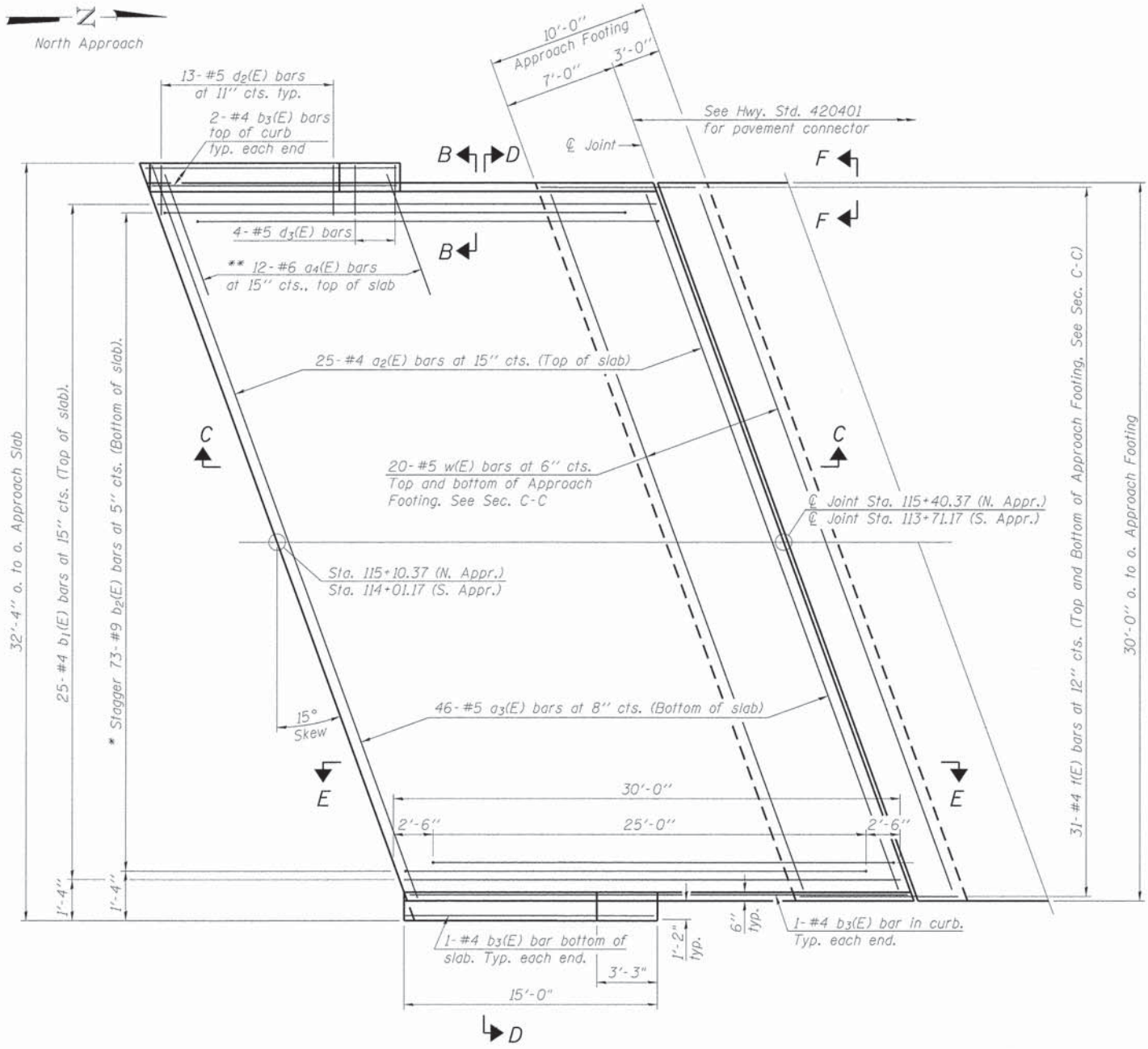
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 056-3194**

SHEET NO. S-6 OF S-17 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	26
CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				

South Approach

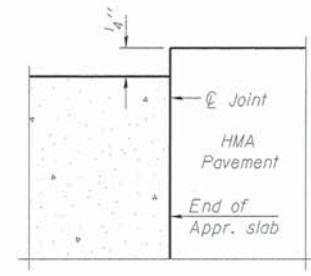
North Approach



PLAN

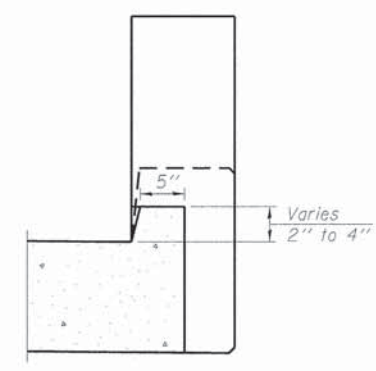
* Tilt #9 $b_2(E)$ bars as required to maintain clearance.
** Space between $a_2(E)$ bars, typ. each parapet.

Notes:
See sheet S-8 of S-17 for Sections C-C & D-D and View E-E.
 $a_2(E)$ and $a_3(E)$ bar spacings measured along \hat{C} Rdwy.
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1/2" for installation purposes.



FLEXIBLE PAVEMENT

DETAIL A



VIEW B-B

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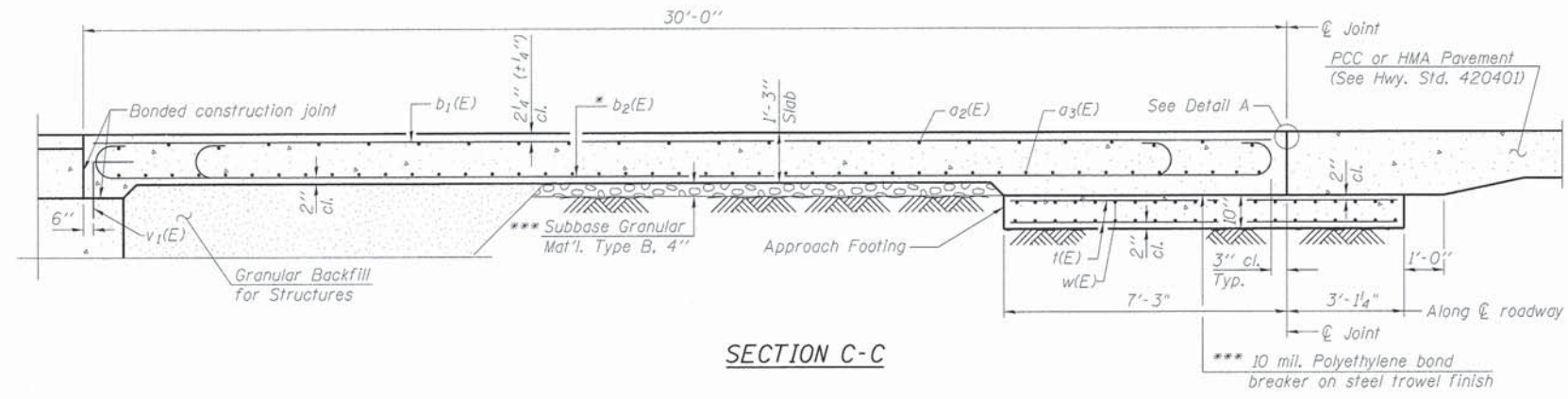
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PLOT SCALE * 1/8"=1'-0"	CHECKED - WJC	REVISED -
PLOT DATE * 2/9/2015	DRAWN - RVV	REVISED -
	CHECKED - WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 056-3194

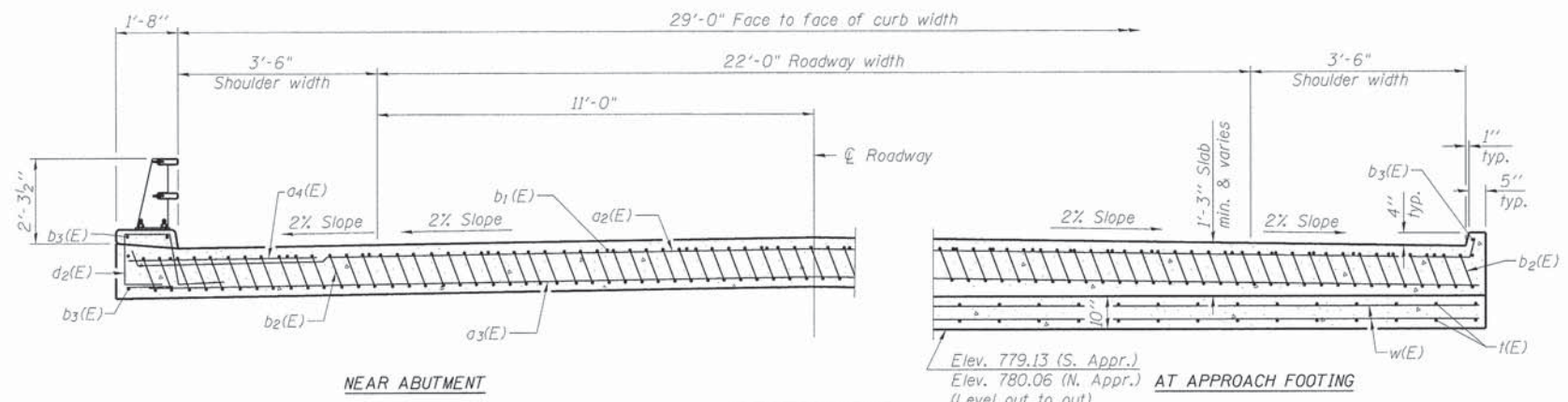
SHEET NO. S-7 OF S-17 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	27
CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				



SECTION C-C

Notes:
 See sheet S-7 of S-17 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For $v_1(E)$ bar details, see sheet S-12 of S-17.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2 of S-17.
 For additional curb details, see sheet S-6 of S-17.



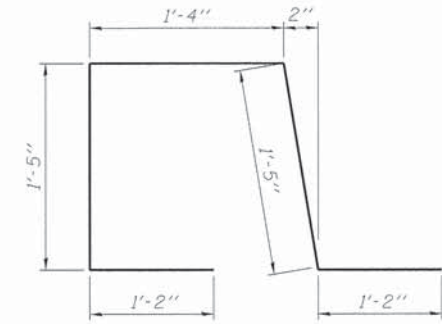
NEAR ABUTMENT

SECTION D-D

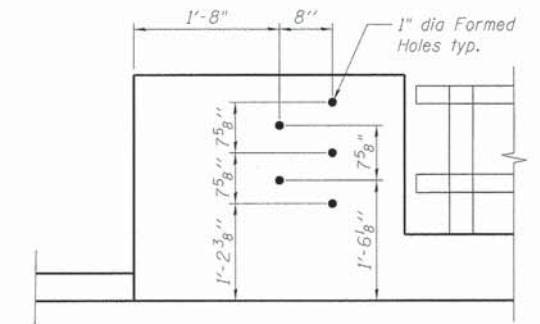
(See Plan for dimensions not shown)

Elev. 779.13 (S. Appr.)
 Elev. 780.06 (N. Appr.)
 (Level out to out)

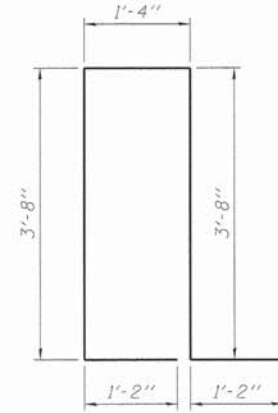
* Tilt #9 $b_2(E)$ bars as required to maintain clearance.
 *** Cost Included with Concrete Superstructure.



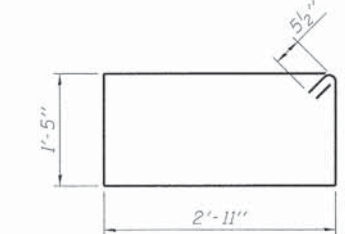
BAR $d_2(E)$



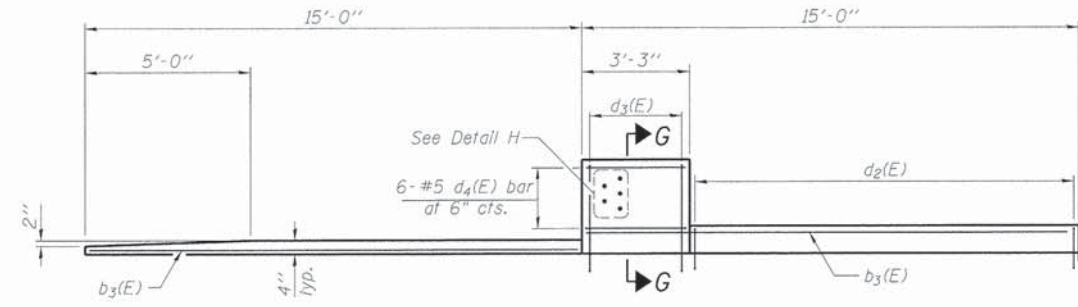
DETAIL H



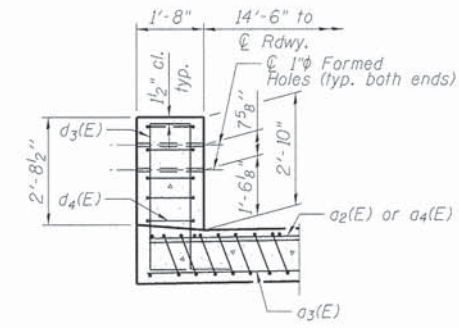
BAR $d_3(E)$



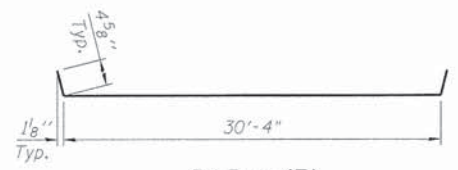
BAR $d_4(E)$



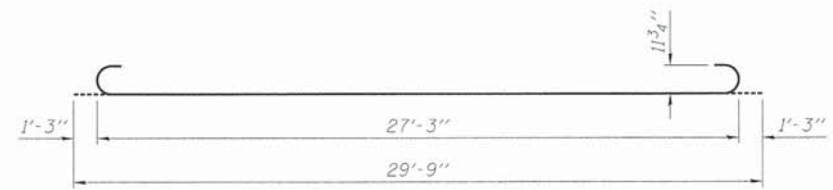
VIEW E-E



SECTION G-G



BAR $a_2(E)$



BAR $b_2(E)$

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_2(E)$	50	#4	31'-3"	—
$a_3(E)$	92	#5	30'-8"	—
$a_4(E)$	48	#6	6'-6"	—
$b_1(E)$	50	#4	29'-8"	—
$b_2(E)$	146	#9	29'-9"	—
$b_3(E)$	16	#4	14'-8"	—
$d_2(E)$	52	#5	6'-6"	□
$d_3(E)$	16	#5	11'-0"	□
$d_4(E)$	24	#5	9'-7"	□
$k(E)$	124	#4	10'-0"	—
$w(E)$	80	#5	30'-8"	—
Concrete Structures		Cu. Yd.	19.2	
Concrete Superstructure		Cu. Yd.	87.5	
Bridge Deck Grooving		Sq. Yd.	194	
Protective Coat		Sq. Yd.	221	
Reinforcement Bars, Epoxy Coated		Pound	24,540	

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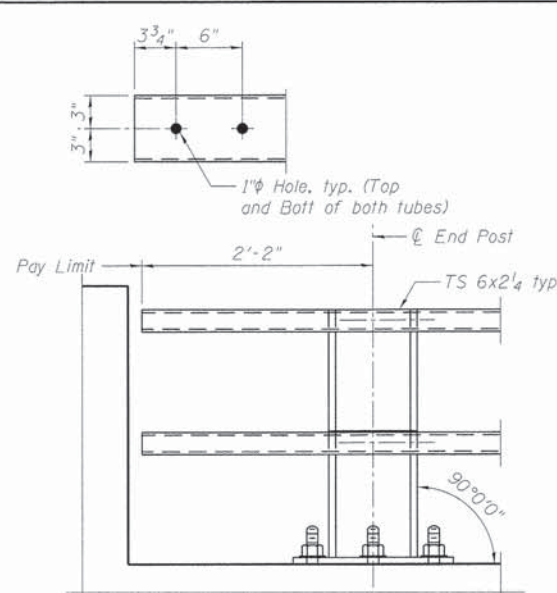


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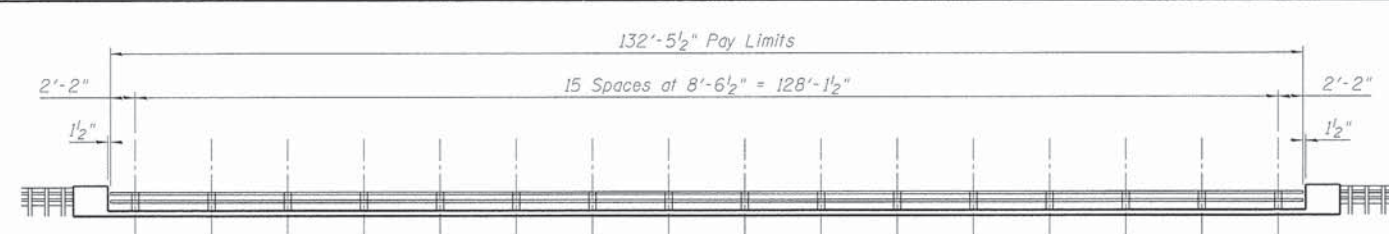
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 2
 STRUCTURE NO. 056-3194
 SHEET NO. S-8 OF S-17 SHEETS

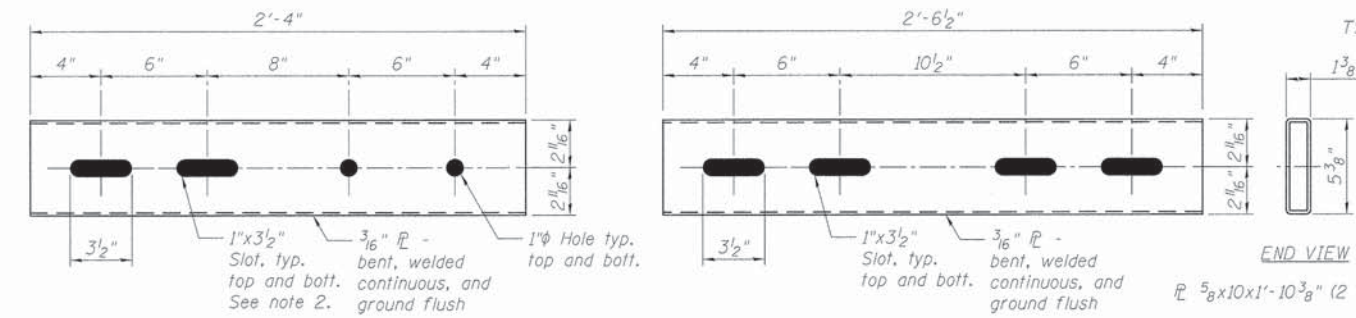
TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	28
			CONTRACT NO. 61B05	
ILLINOIS FED. AID PROJECT				



ELEVATION AT TERMINAL



RAILING ELEVATION

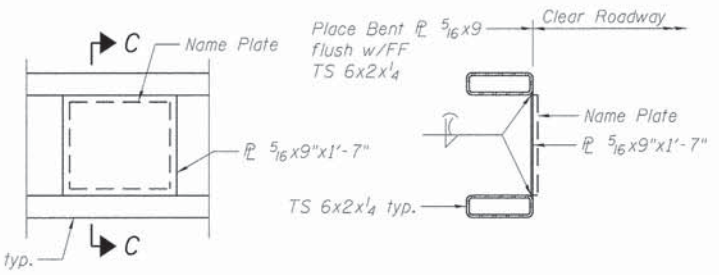


STANDARD SLEEVE

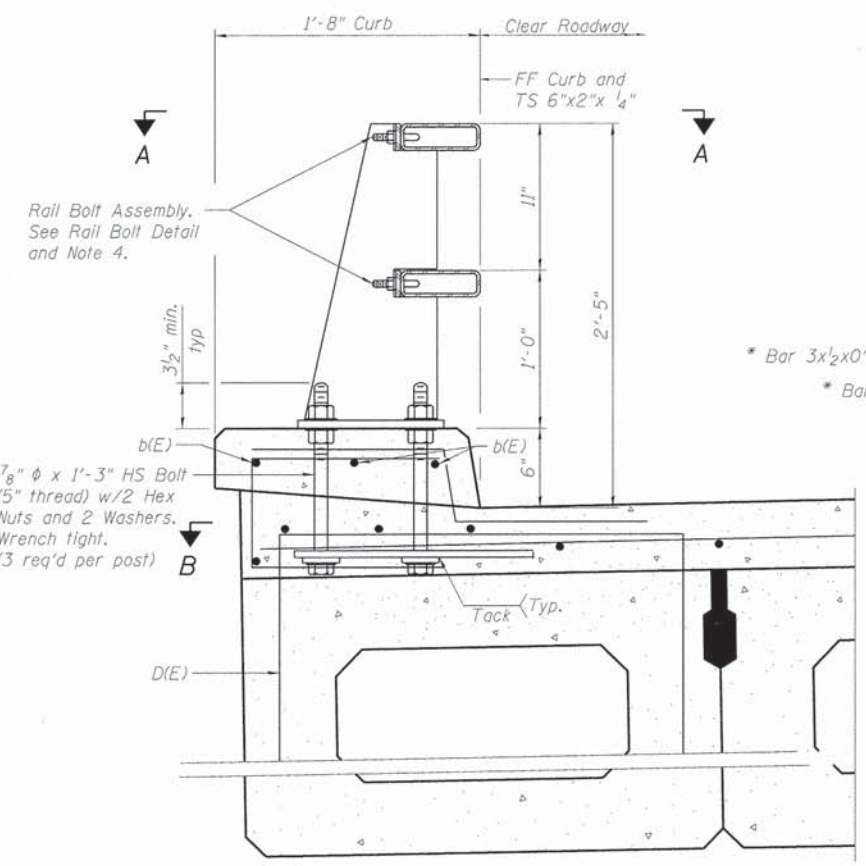
SLEEVE DETAILS

EXPANSION SLEEVE

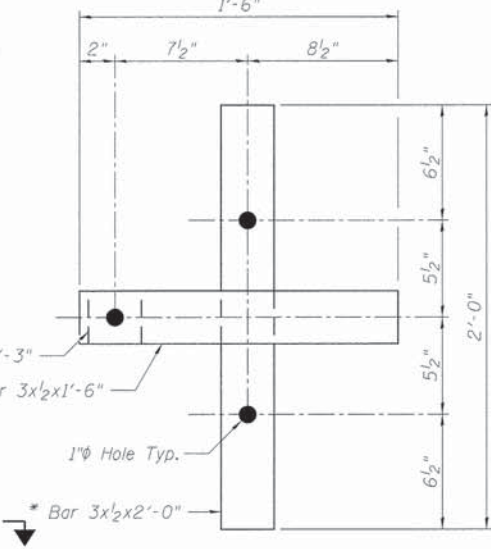
DETAIL AT NAME PLATE LOCATION



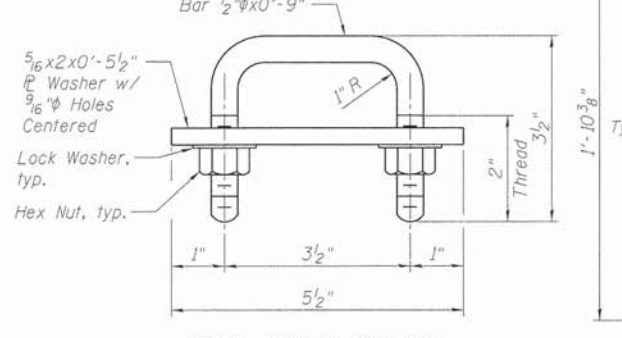
SECTION C-C



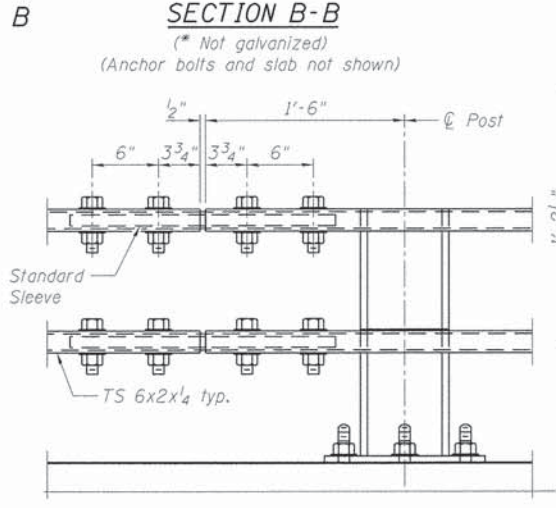
ASSEMBLY DETAIL
(Show near ϕ Post)
(Bridge slab shown, approach slab similar)



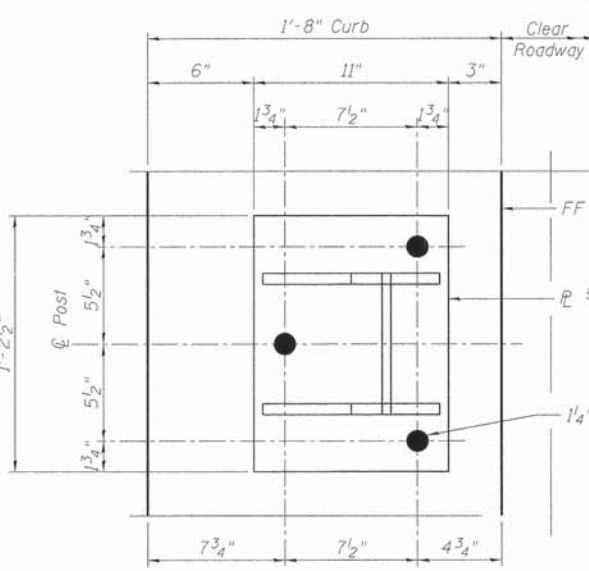
SECTION B-B
(* Not galvanized)
(Anchor bolts and slab not shown)



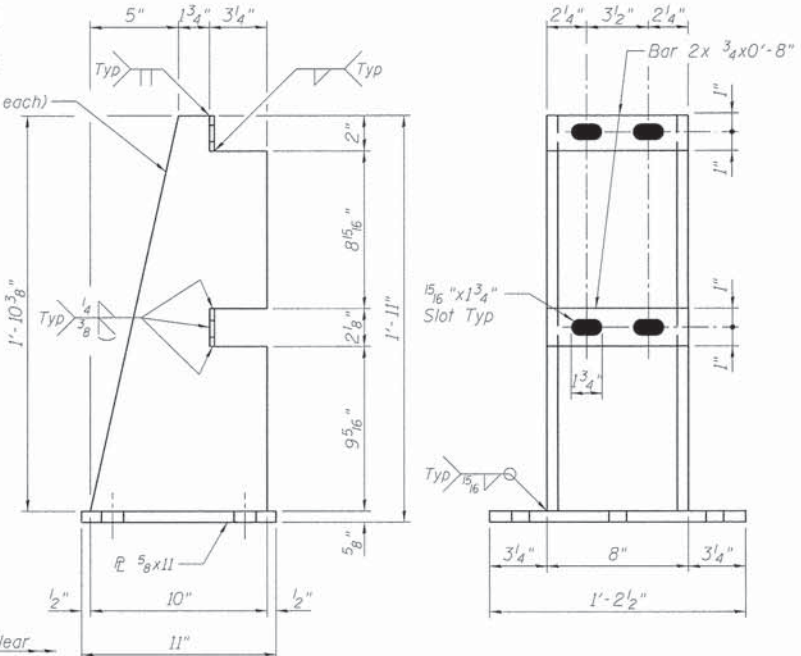
RAIL BOLT DETAIL



SPLICE DETAIL



VIEW A-A
(Anchor bolts, rails, and rail bolts not shown)



SIDE VIEW

POST DETAILS

FRONT VIEW

NOTES:

1. Slots may be omitted in standard sleeves where bolts are required on one side of splice only.
2. Anchor bolts may be tack welded to anchorage (shop or field).
3. At post locations, drill two 1 1/8" holes in the rails to receive rail bolts (shop or field). See Post Details for hole spacing.
4. Before installing rails, paint cut, drilled, or otherwise damaged surface areas of the railing components with two coats of zinc rich paint conforming to the requirements of ASTM A 780.
5. After installing the rails, paint exposed bolt threads with two coats of zinc rich paint conforming to the requirements of ASTM A 780.
6. Rail Post anchor bolts shall miss D(E) bars.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Steel Railing (Special)	Foot	266

TR RFE.	SECTION	COUNTY	TOTAL SHEET NO.
0002	08-00358-00-BR	MCHENRY	61 29
			CONTRACT NO. 61B05

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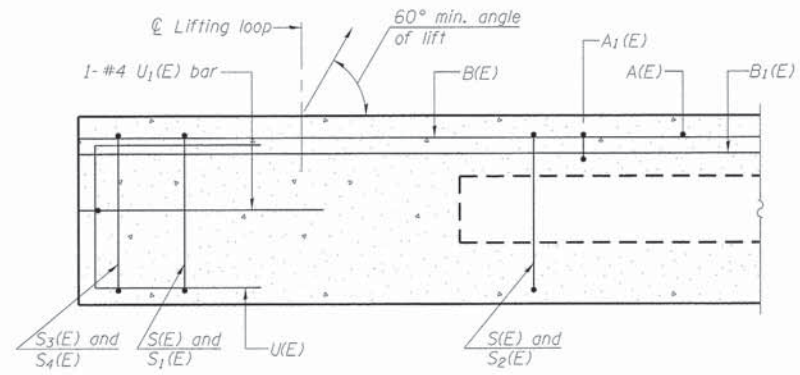


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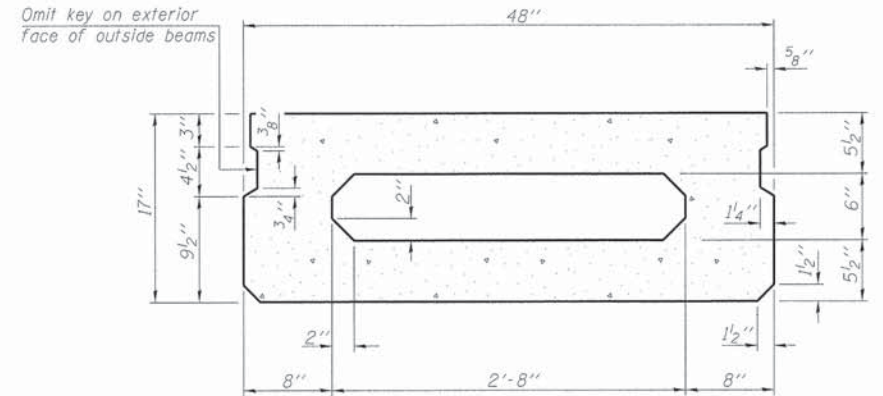
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING DETAILS
STRUCTURE NO. 056-3194
SHEET NO. 5-9 OF 5-17 SHEETS

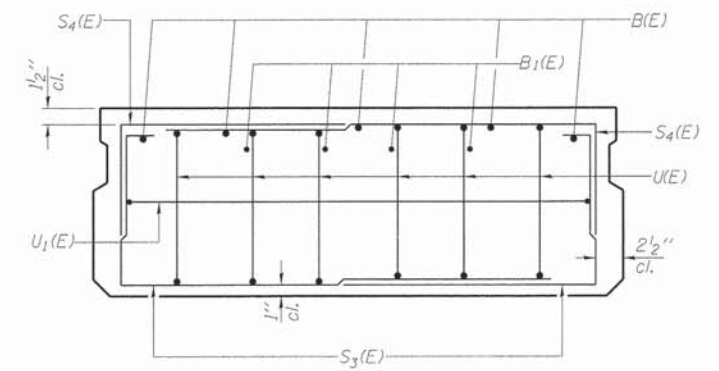
ILLINOIS FED. AID PROJECT



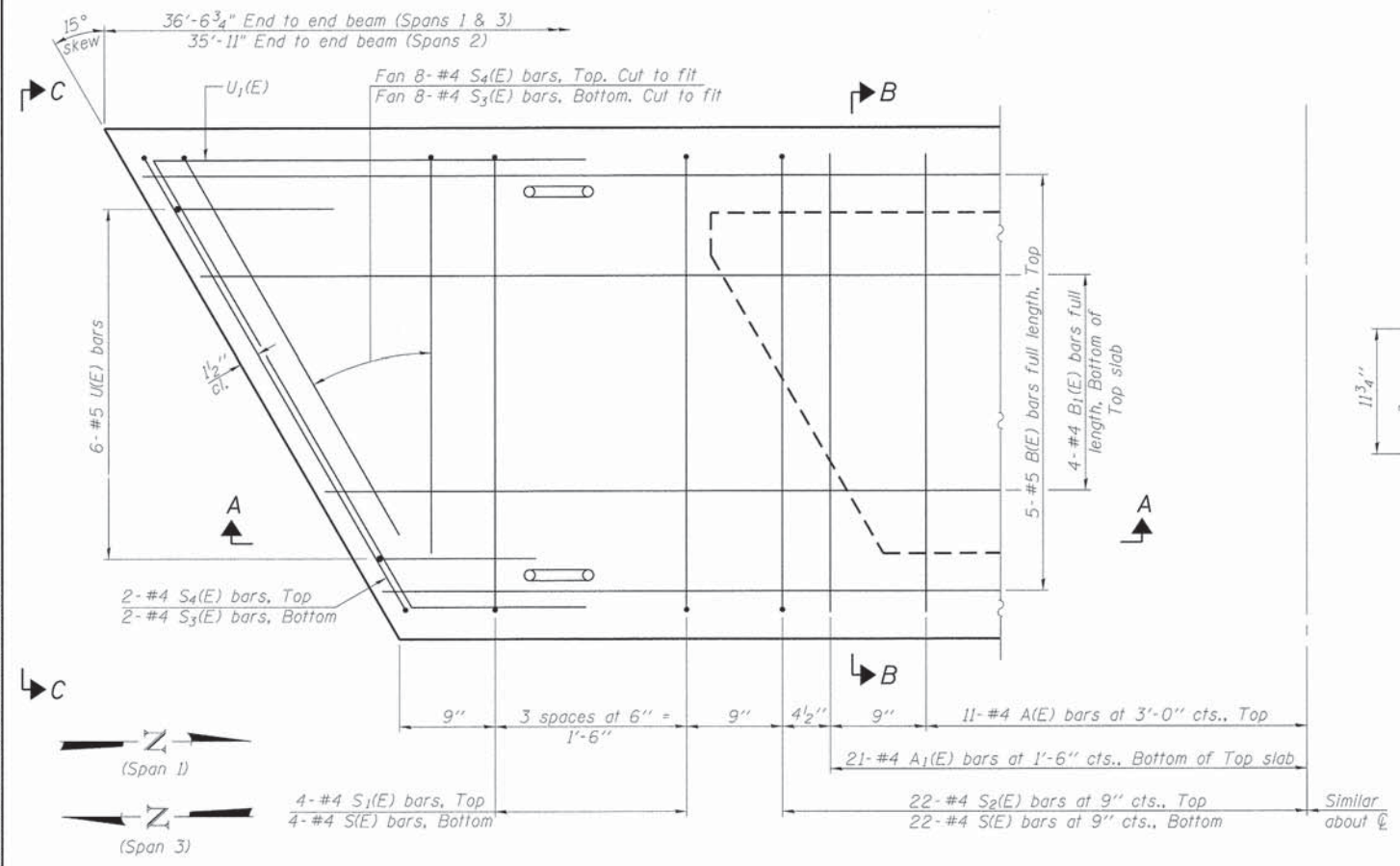
SECTION A-A



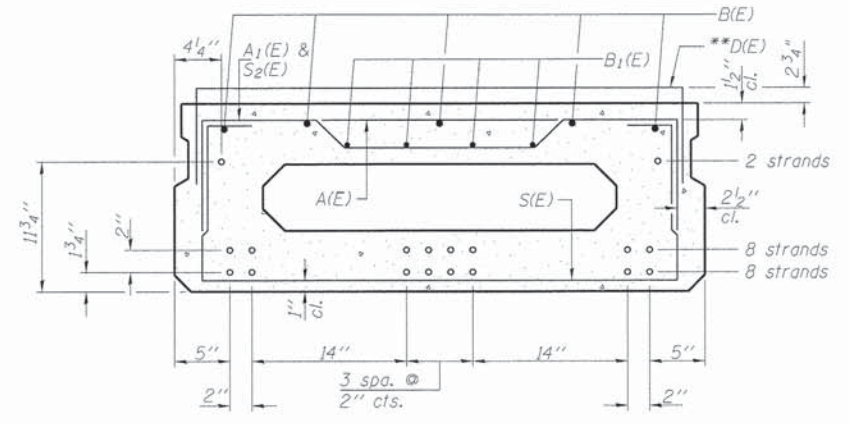
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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)	11	#4	3'-7"	—
A1(E)	21	#4	3'-10"	~
B(E)	5	#5	36'-3"	—
B1(E)	4	#4	36'-3"	—
D(E)	276	#4	5'-7"	┌
S(E)	51	#4	6'-9"	┌
S1(E)	8	#4	5'-3"	┌
S2(E)	43	#4	5'-6"	┌
S3(E)	20	#4	4'-6"	┌
S4(E)	20	#4	3'-9"	┌
UK(E)	12	#5	3'-8"	┌
U1(E)	2	#4	7'-5"	┌

Note: See sheet S-11 of S-17 for additional details and Bill of Material.

* For Span 2, length = 35'-8"

** Fascia beams only. See sheet S-6 of S-17 for bar layout.

2/19/2015 4:51:42 PM - GA:\CH01\0055\br-100\CA001\Sheet1\056-3194-61B05-001-PPC-Beam_Details.dgn

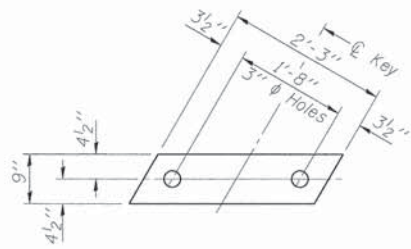


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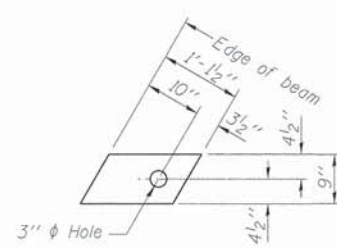
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM DETAILS 1
STRUCTURE NO. 056-3194
SHEET NO. S-10 OF S-17 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	30
CONTRACT NO. 61B05			ILLINOIS FED. AID PROJECT	

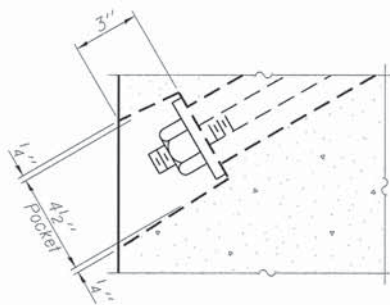


FABRIC BEARING PAD
(Interior)

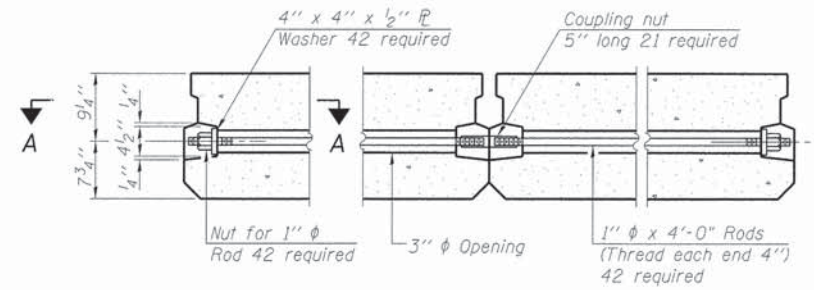


FABRIC BEARING PAD
(Exterior)

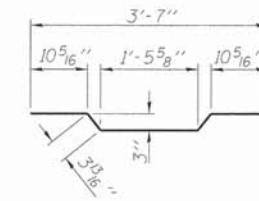
Notes:
FIXED
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pad shall be bonded to the substructure.



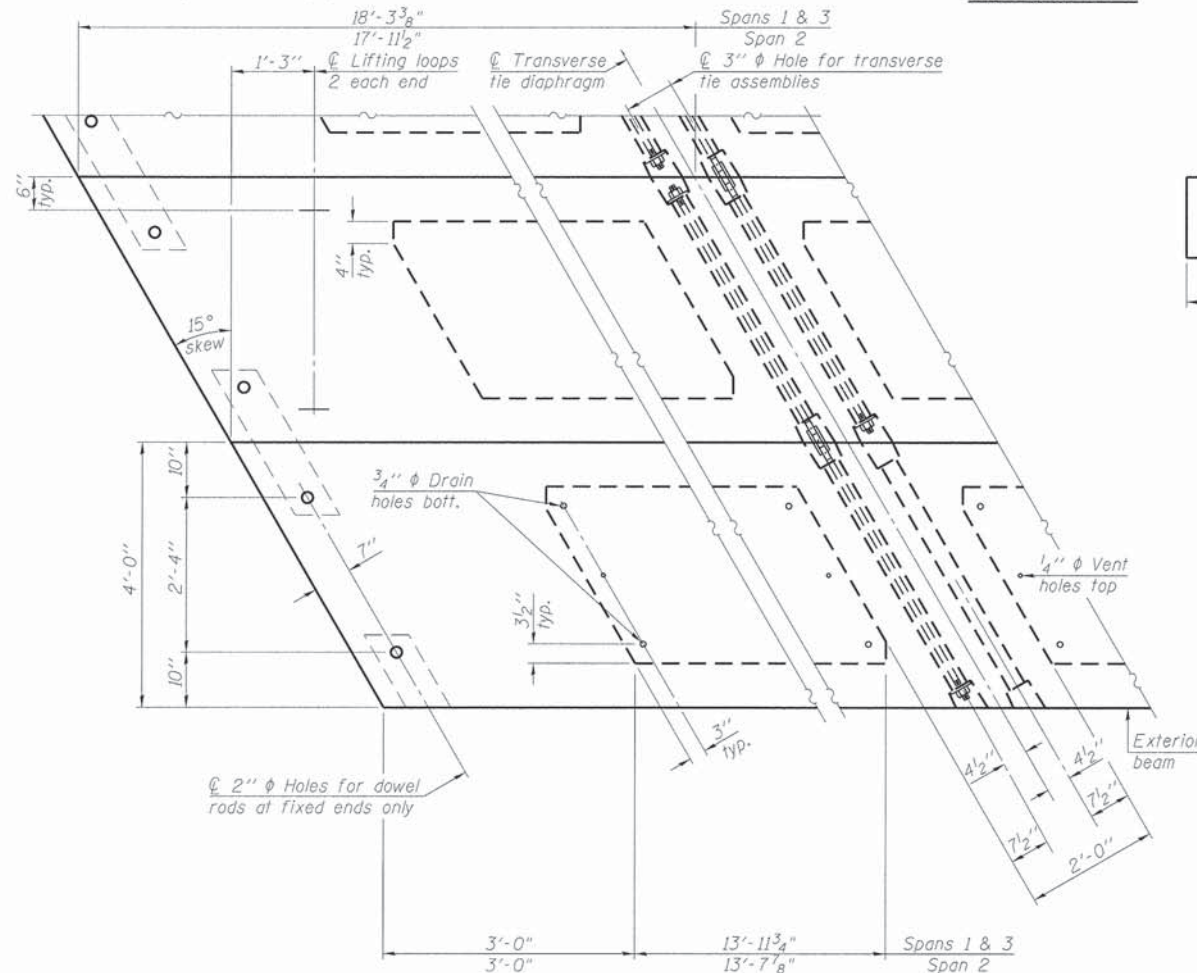
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



BAR A1(E)



PLAN VIEW

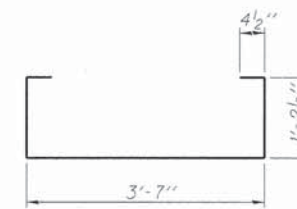
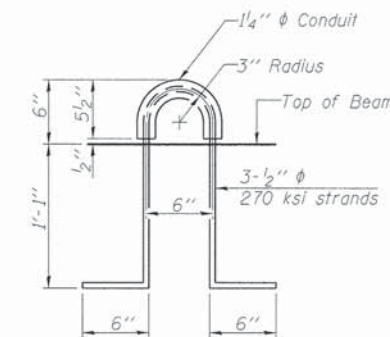
NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter 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 3/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" diameter 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.

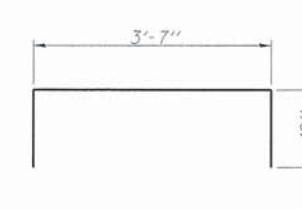
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM DETAILS 2
STRUCTURE NO. 056-3194

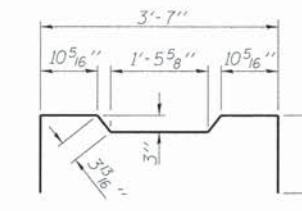
LIFTING LOOP DETAIL



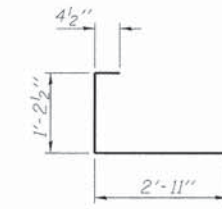
BAR S(E)



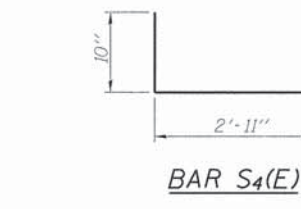
BAR S1(E)



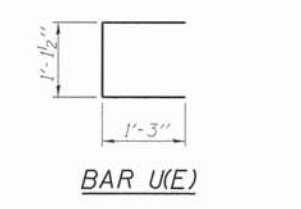
BAR S2(E)



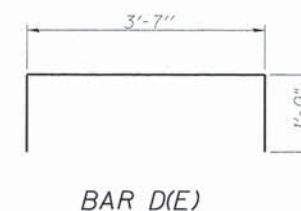
BAR S3(E)



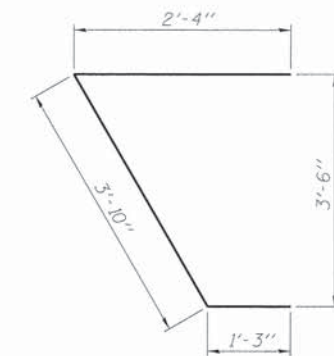
BAR S4(E)



BAR U(E)



BAR D(E)



BAR U1(E)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Prestressed Conc. Deck Bms. (17" Depth)	Sq. Ft.	3,490

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

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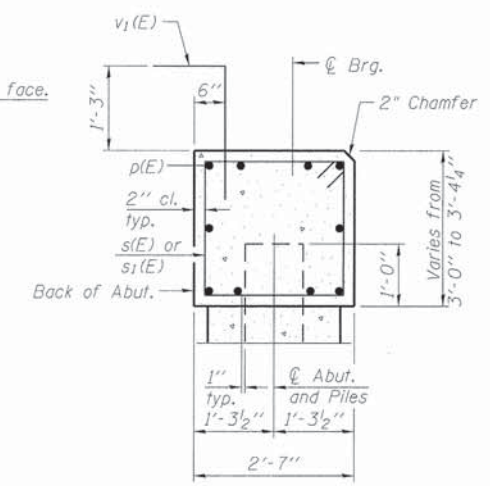
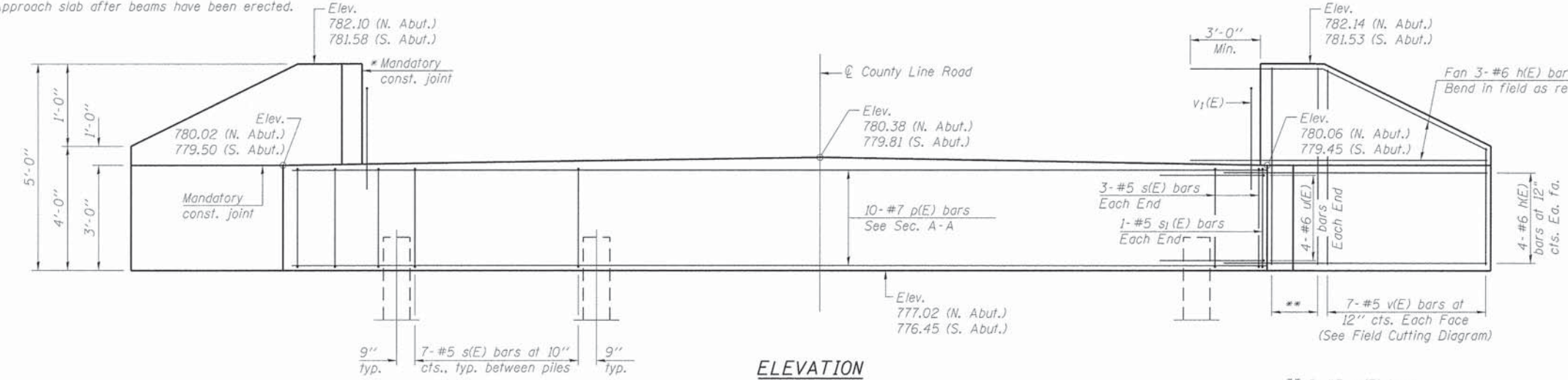


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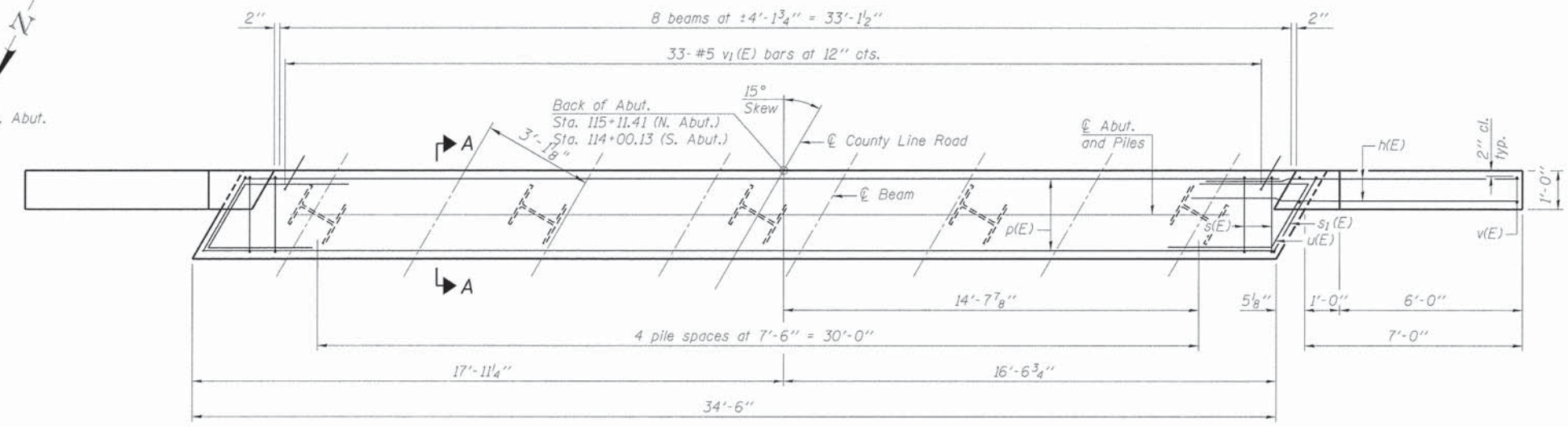
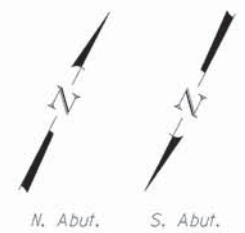
TR RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 31
CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				

SHEET NO. S-11 OF S-17 SHEETS

* Cast top of wingwall flush with exterior face of Approach slab after beams have been erected.



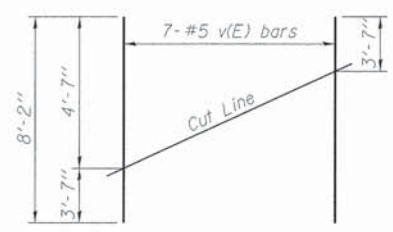
SECTION A-A
(Dimensions are at Rt. L's)



PLAN

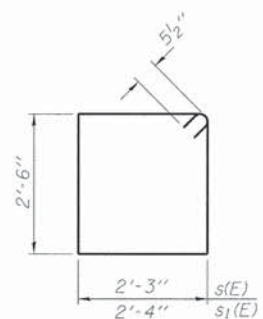
PILE DATA

Type: HP12x53
 Nominal Required Bearing: 418 kips
 Factored Resistance Available: 217 kips
 Est. Length: 51 ft (N. Abut.)
 61 ft (S. Abut.)
 No. Production Piles: 8
 No. Test Piles: 2 (1 @ N. Abut.)
 (1 @ S. Abut.)

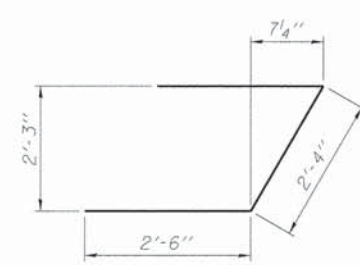


FIELD CUTTING DIAGRAM

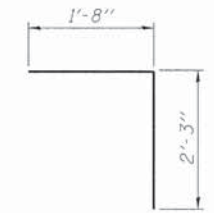
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s(E) & s1(E)



BAR u(E)



BAR v1(E)

BILL OF MATERIAL FOR NORTH AND SOUTH ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	56	#6	10'-5"	—
p(E)	20	#7	34'-1"	—
s(E)	68	#5	10'-5"	□
s1(E)	4	#5	10'-7"	□
u(E)	16	#6	7'-4"	┘
v(E)	28	#5	8'-2"	—
v1(E)	66	#5	3'-11"	└
v2(E)	16	#5	4'-7"	—
Structure Excavation		Cu. Yd.	20	
Concrete Structures		Cu. Yd.	26.3	
Reinforcement Bars, Epoxy Coated		Pound	3,820	
Furnishing Steel Piles HP12x53		Foot	448	
Driving Piles		Foot	448	
Test Pile Steel HP12x53		Each	2	
Pile Shoes		Each	10	

For details of piles see sheet S-14 of S-17.

Note:
 Elevations shown shall be modified if the actual camber before deck beam erection is different from the camber diagram. The modification shall be approved by the Engineer.

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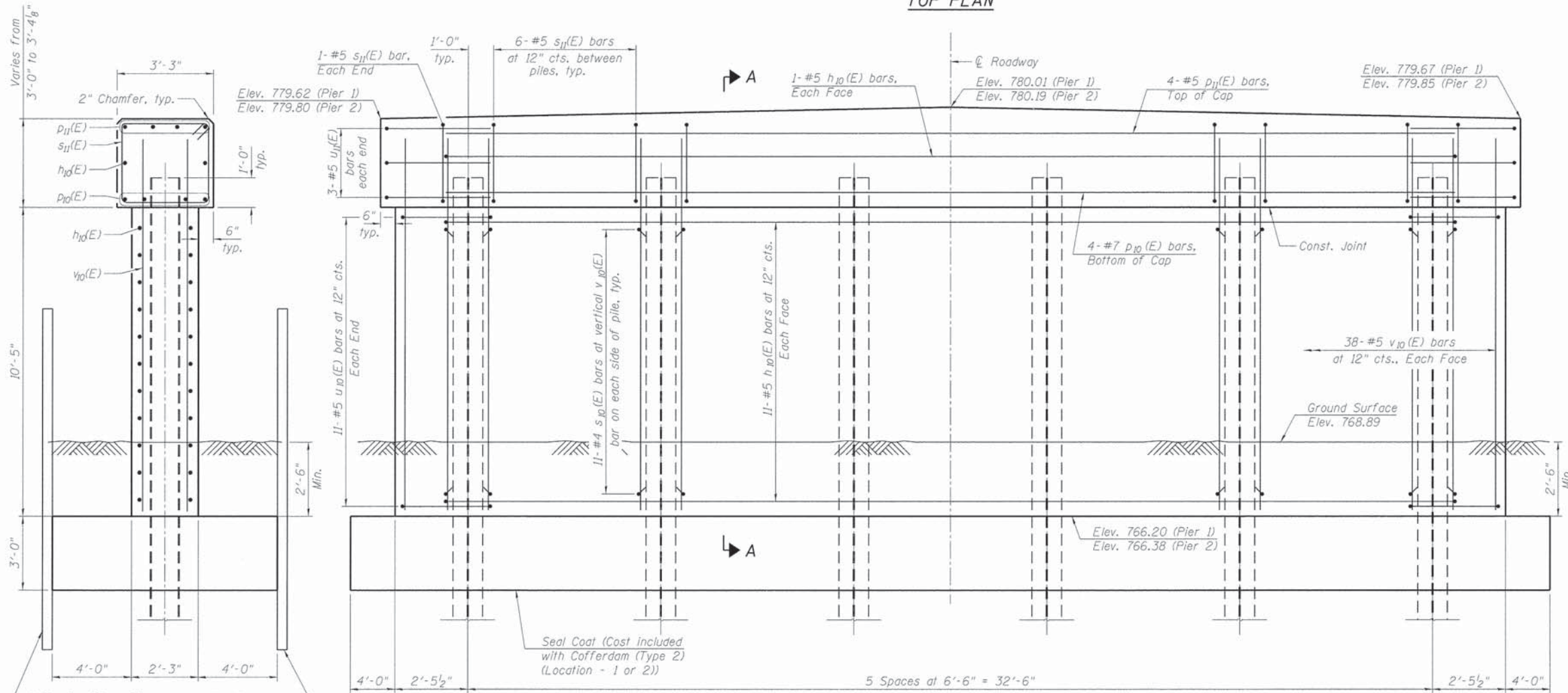
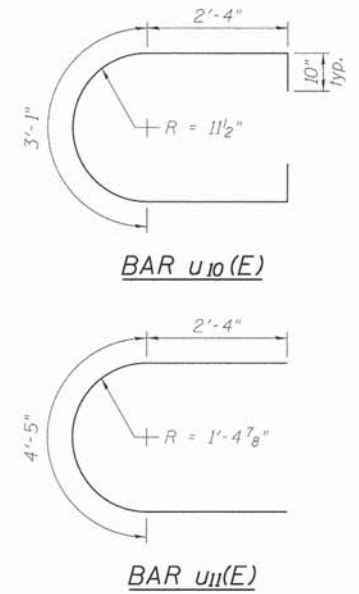
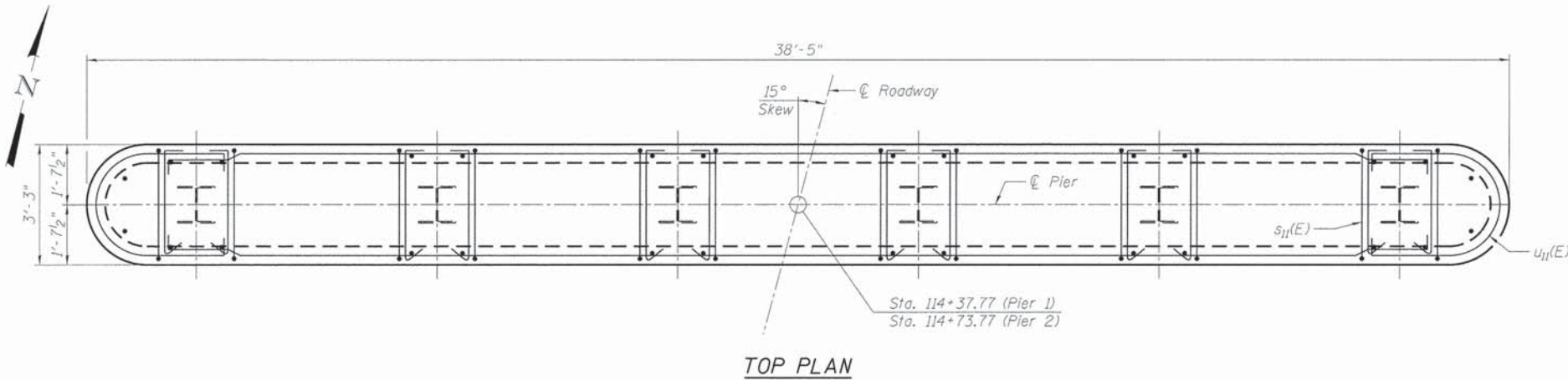
	USER NAME = EComan	DESIGNED - RVV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT DETAILS STRUCTURE NO. 056-3194	TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2/8" = 1'	CHECKED - DL	REVISED -			0002	08-00358-00-BR	MCHENRY	61	32
	PLOT DATE = 2/9/2015	DRAWN - RVV	REVISED -			CONTRACT NO. 61B05				
		CHECKED - DL	REVISED -			ILLINOIS FED. AID PROJECT				

PILE DATA

Type: Steel HP 14x73
 Nominal Required Bearing: 578 kips
 Factored Resistance Available: 318 kips
 Est. Length: 53 feet
 No. Production Piles: 5 (Pier 1), 5 (Pier 2)
 No. Test Piles: 1 (Pier 1), 1 (Pier 2)

LEGEND

Proposed HP Piles:



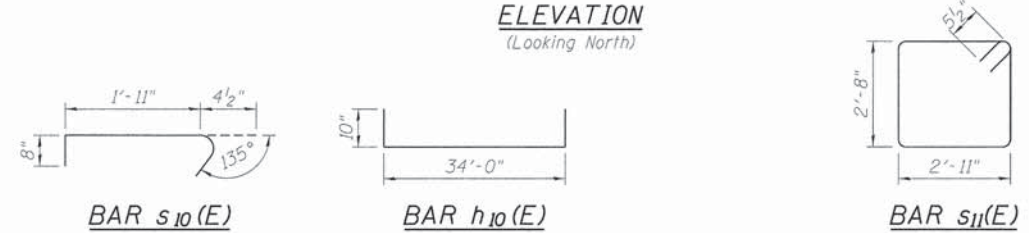
BILL OF MATERIAL
(Piers 1 & 2)

Bar	No.	Size	Length	Shape
h10(E)	48	#5	35'-8"	U
p10(E)	8	#7	34'-0"	—
p11(E)	8	#5	34'-0"	—
s10(E)	264	#4	3'-0"	└
s11(E)	64	#5	12'-1"	□
u10(E)	44	#5	9'-5"	U
u11(E)	12	#5	9'-1"	U
v10(E)	152	#5	12'-2"	—
Cofferdam Excavation	Cu. Yd.		194	
Cofferdam (Type 2) (Location - 1)	Each		1	
Cofferdam (Type 2) (Location - 2)	Each		1	
Concrete Structures	Cu. Yd.		94.6	
Reinforcement Bars, Epoxy Coated	Pound		6,440	
Furnishing Steel Piles HP14x73	Foot		530	
Driving Piles HP14x73	Foot		530	
Test Pile Steel HP14x73	Each		2	
Pile Shoes	Each		12	

For details of piles see sheet S-14 of S-17.

SECTION A-A

Note:
 Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design. Cost included with Cofferdam (Type 2) (Location - 1 or 2).
 Elevations shown shall be modified if the actual camber before deck beam erection is different from the camber diagram. The modification shall be approved by the Engineer.



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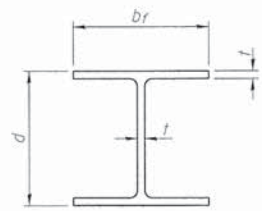


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		CHECKED	DL	REVISED	-
PLOT SCALE	2:8.0002 1" = 8'	DRAWN	RVV	REVISED	-
PLOT DATE	2/9/2015	CHECKED	DL	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

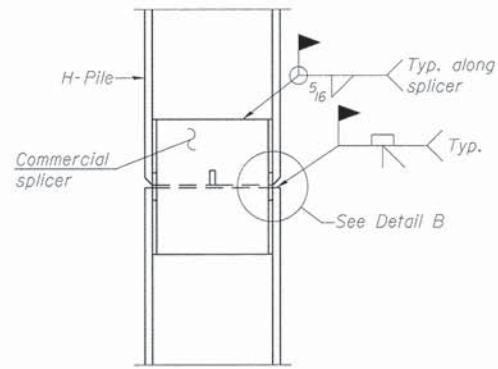
PIER DETAILS
STRUCTURE NO. 056-3194
 SHEET NO. 5-13 OF 5-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	33
CONTRACT NO. 61B05			ILLINOIS FED. AID PROJECT	

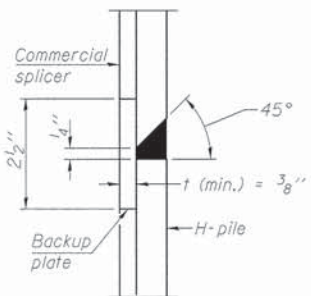


STEEL PILE TABLE

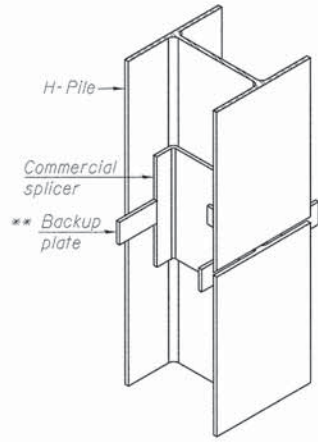
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 5/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 5/8"	7/16"	24"
HP 8x36	8"	8 5/8"	7/16"	18"



ELEVATION

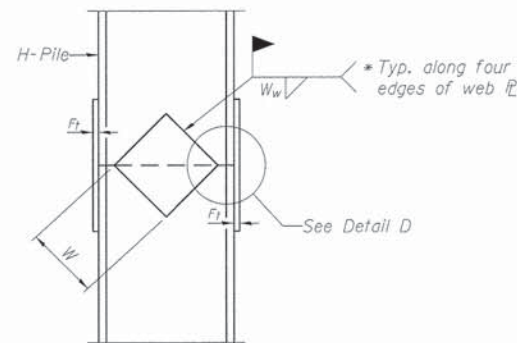


DETAIL "B"

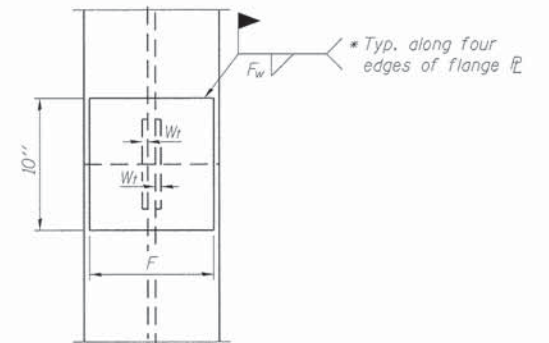


ISOMETRIC VIEW

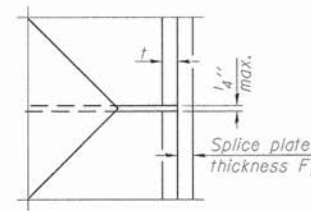
WELDED COMMERCIAL SPLICE



ELEVATION



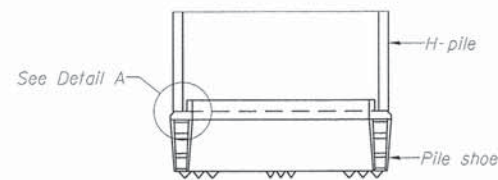
END VIEW



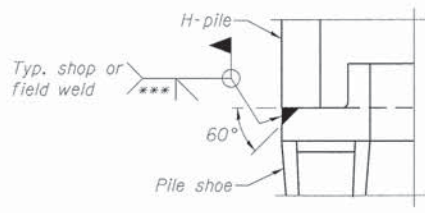
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 5/8"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 5/8"	1 1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 5/8"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 5/8"	1 1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 5/8"	1 1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 5/8"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	3/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

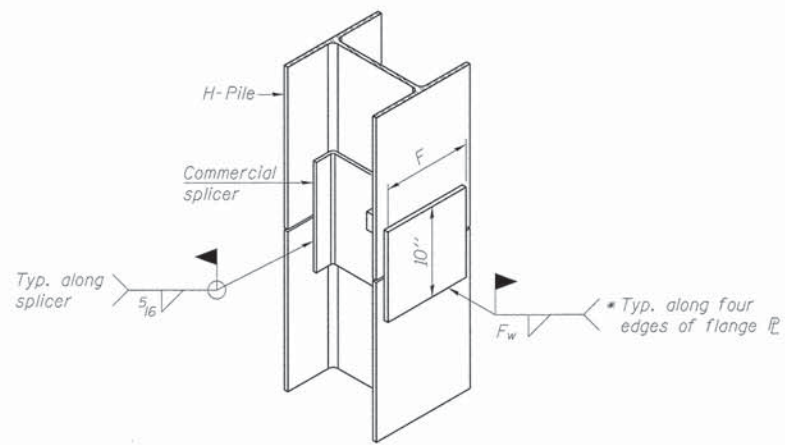


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

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F-HP

1-27-12



USER NAME = CEComin	DESIGNED - KAH	REVISED -
PLOT SCALE = 1/8"=1'-0"	CHECKED - DL	REVISED -
PLOT DATE = 2/9/2015	DRAWN - KAH	REVISED -
	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 056-3194

SHEET NO. S-14 OF S-17 SHEETS

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	34
			CONTRACT NO. 61B05	
ILLINOIS FED. AID PROJECT				

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 Consulting Geotechnical and
 Environmental Engineers

BORING LOG SB-1 Page 1 of 2

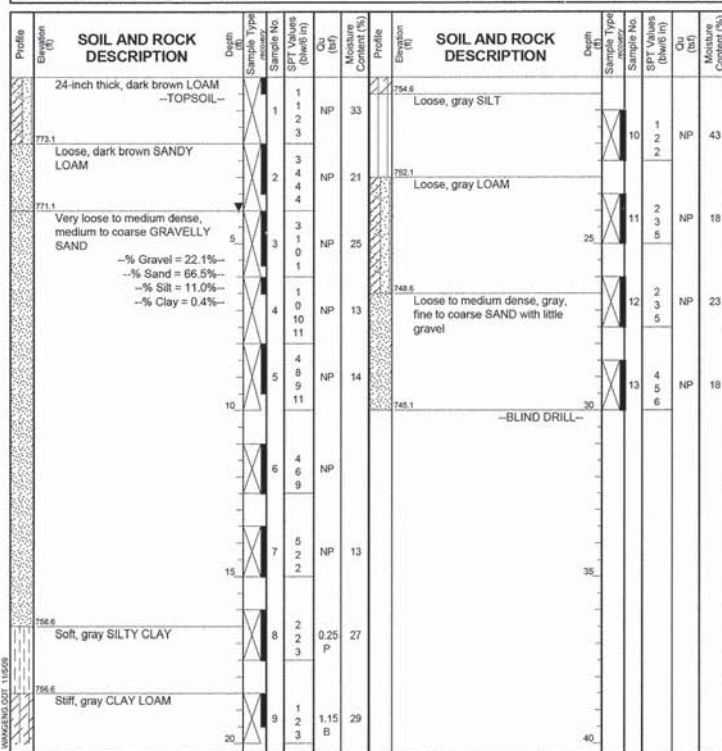
WEI Job No.: 790-41-01

Client: **TranSystems Corporation**

Project: **County Line Road over the Kishwaukee River**

Location: **McHenry and Boone Counties, Illinois**

Datum: NGVD
 Elevation: 775.09 ft
 North: 2036212.59 ft
 East: 883537.82 ft
 Station: 114+15.33
 Offset: 34.7 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-16-2009	Complete Drilling	07-16-2009
Drilling Contractor	Wang Testing Services	Drill Rig	Diedrich D-120 ATV
Driller	K & F	Logger	B Wilson
Checked by	M. Snider	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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 Environmental Engineers

BORING LOG SB-1 Page 2 of 2

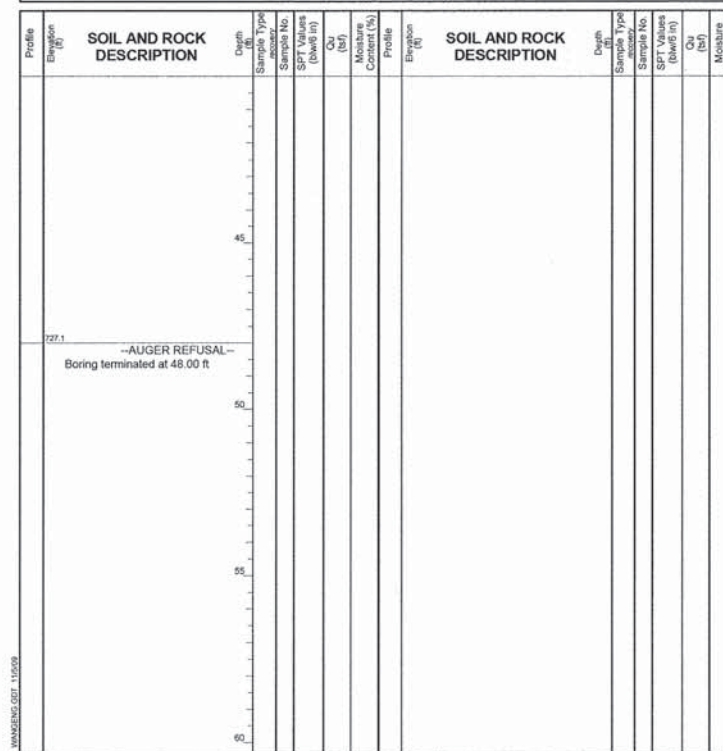
WEI Job No.: 790-41-01

Client: **TranSystems Corporation**

Project: **County Line Road over the Kishwaukee River**

Location: **McHenry and Boone Counties, Illinois**

Datum: NGVD
 Elevation: 775.09 ft
 North: 2036212.59 ft
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 Station: 114+15.33
 Offset: 34.7 RT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-16-2009	Complete Drilling	07-16-2009
Drilling Contractor	Wang Testing Services	Drill Rig	Diedrich D-120 ATV
Driller	K & F	Logger	B Wilson
Checked by	M. Snider	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG SB-2 Page 1 of 1

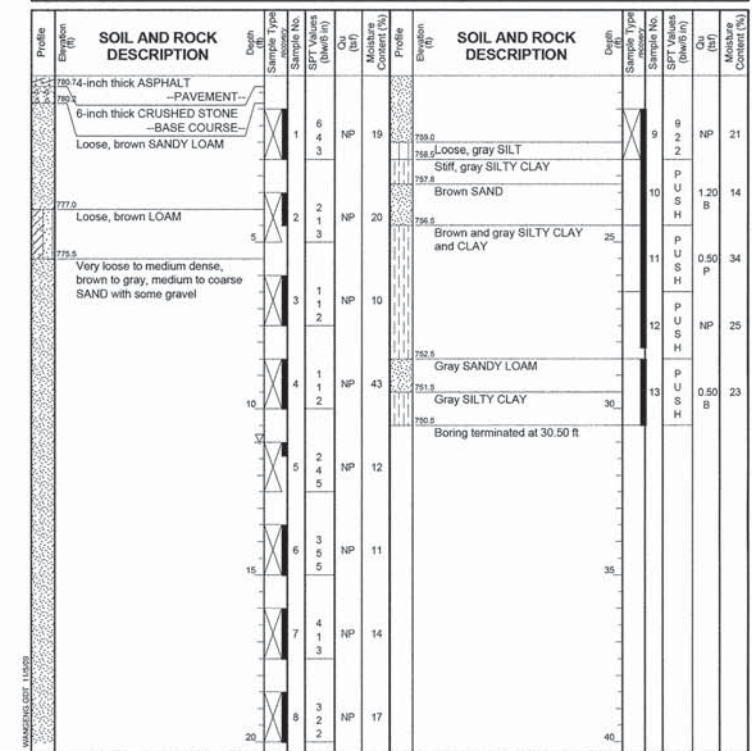
WEI Job No.: 790-41-01

Client: **TranSystems Corporation**

Project: **County Line Road over the Kishwaukee River**

Location: **McHenry and Boone Counties, Illinois**

Datum: NGVD
 Elevation: 781.00 ft
 North: 2036301.56 ft
 East: 883501.03 ft
 Station: 115+04.45
 Offset: 0.8 LT



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-20-2009	Complete Drilling	07-20-2009
Drilling Contractor	Wang Testing Services	Drill Rig	Mobile B-57 TMR
Driller	J&K	Logger	B Wilson
Checked by	M. Snider	Time After Drilling	NA
Drilling Method	4.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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	PLOT DATE = 2/9/2005	DRAWN - KAH	REVISED -			CONTRACT NO. 61B05				
	CHECKED - DL	REVISED -		ILLINOIS FED. AID PROJECT						

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 Fax: 630 953-9938

BORING LOG SB-3
 WEI Job No.: 790-41-01

Datum: NGVD
 Elevation: 780.53 ft
 North: 2036154.12 ft
 East: 883503.13 ft
 Station: 113+57.00
 Offset: 0.8 LT

Client: **TranSystems Corporation**
 Project: **County Line Road over the Kishwaukee River**
 Location: **McHenry and Boone Counties, Illinois**

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
780.24	24-inch thick ASPHALT --PAVEMENT--												
779.7	6-inch thick CRUSHED STONE --BASE COURSE--												
	Loose, brown SANDY LOAM --FILL--	1	3	NP	9		758.5	Loose, gray SILT	9	2	NP	23	
		2	3				757.5	Soft, gray SILTY CLAY	10	2	0.25	24	
		3	2						11	2	NP	27	
775.0	Very loose, dark brown SANDY LOAM	5	2	NP	9		753.8	Loose, gray SILTY LOAM	12	2	NP	33	
	--% Gravel = 4.2%--								13	4	NP	19	
	--% Sand = 65.8%--								14	6	NP	14	
	--% Silt = 23.7%--								15	8	NP		
	--% Clay = 6.3%--								16	9	NP		
771.0	Very loose, gray, medium SAND	10	4	NP	30				17	3	NP	10	
770.0	Very loose, brown LOAM some gravel	5	1	NP	21		747.5	Medium dense, gray, medium to coarse SAND with some gravel	18	5	NP	10	
		2	1						19	17	NP		
767.5	Very loose to medium dense, brown, fine to coarse SAND with some gravel	15	6	NP	27				20	11	NP	14	
		2	3										
		3	3										
		4	6										
		5	6										
		6	6										
		7	3										
		8	3										
		9	3										
		10	4										

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	07-20-2009	Complete Drilling	07-20-2009	While Drilling	9.50 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	Washed		
Driller	J&K	Logger	B Wilson	Time After Drilling	NA		
Checked by	M. Snider	Depth to Water	NA				
Drilling Method	4.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
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BORING LOG SB-3
 WEI Job No.: 790-41-01

Datum: NGVD
 Elevation: 780.53 ft
 North: 2036154.12 ft
 East: 883503.13 ft
 Station: 113+57.00
 Offset: 0.8 LT

Client: **TranSystems Corporation**
 Project: **County Line Road over the Kishwaukee River**
 Location: **McHenry and Boone Counties, Illinois**

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
							717.5	Strong, poor to fair, light gray DOLOSTONE with SHALE interbeds REC=60/60=100% RQD=14.5/60=24%	65	1			
							734.0	Medium dense to dense, gray SANDY LOAM with trace to some gravel and cobbles					
							712.5	Boring terminated at 68.00 ft					
		15	5	NP	9				70				
		16	10	NP	10				75				
		17	10	NP	10				80				
		18	3	NP	10								
		18	8	NP	10								
		18	17	NP	10								
		18	27	NP	10								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	07-20-2009	Complete Drilling	07-20-2009	While Drilling	9.50 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	Washed		
Driller	J&K	Logger	B Wilson	Time After Drilling	NA		
Checked by	M. Snider	Depth to Water	NA				
Drilling Method	4.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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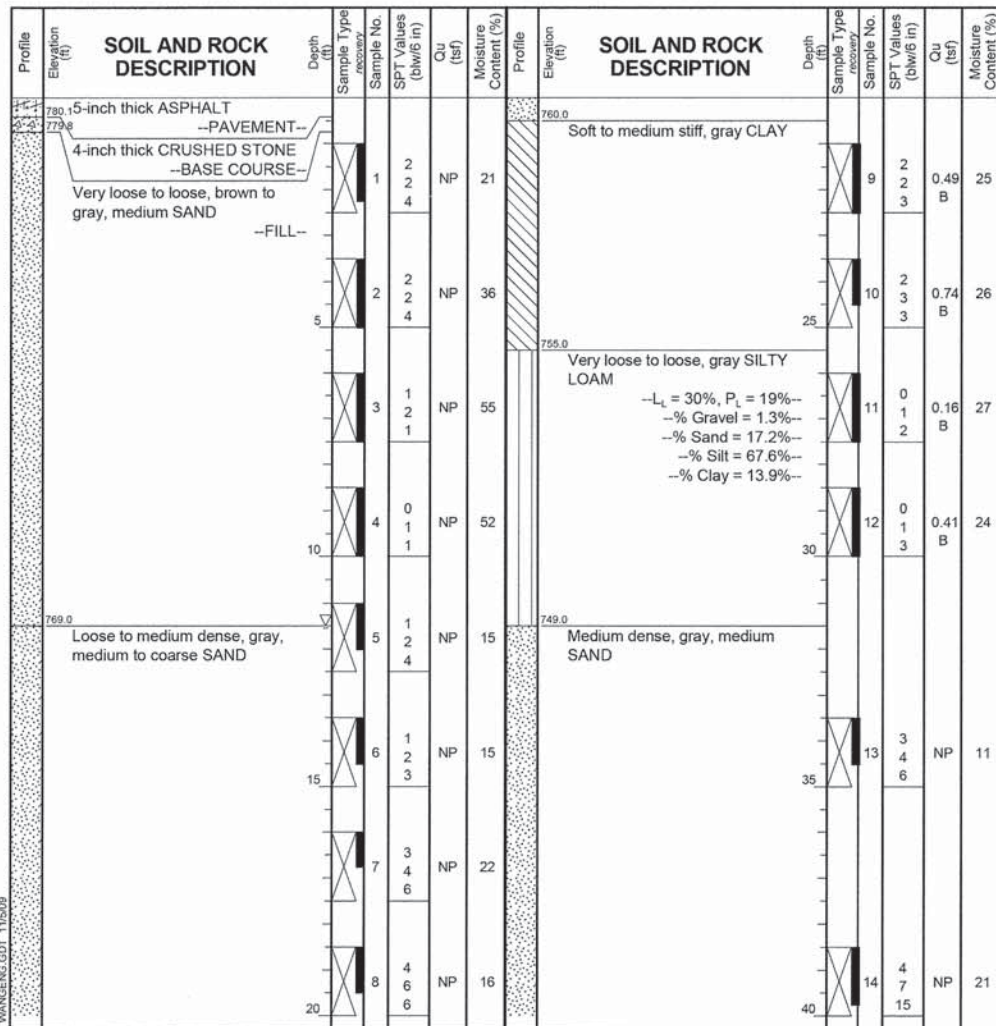
Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG SB-4
 WEI Job No.: 790-41-01

Datum: NGVD
 Elevation: 780.51 ft
 North: 2036322.53 ft
 East: 883497.09 ft
 Station: 115+25.48
 Offset: 4.5 LT

Client: **TranSystems Corporation**
 Project: **County Line Road over the Kishwaukee River**
 Location: **McHenry and Boone Counties, Illinois**

Page 1 of 2



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-15-2009	Complete Drilling	07-15-2009
Drilling Contractor	Wang Testing Services	Drill Rig	Mobile B-57 TMR
Driller	J&K	Logger	H Suhail
Checked by	M. Snider	Drilling Method	4.25 IDA HSA; Boring backfilled upon completion
While Drilling	11.50 ft	At Completion of Drilling	Washed
Time After Drilling	NA	Depth to Water	NA

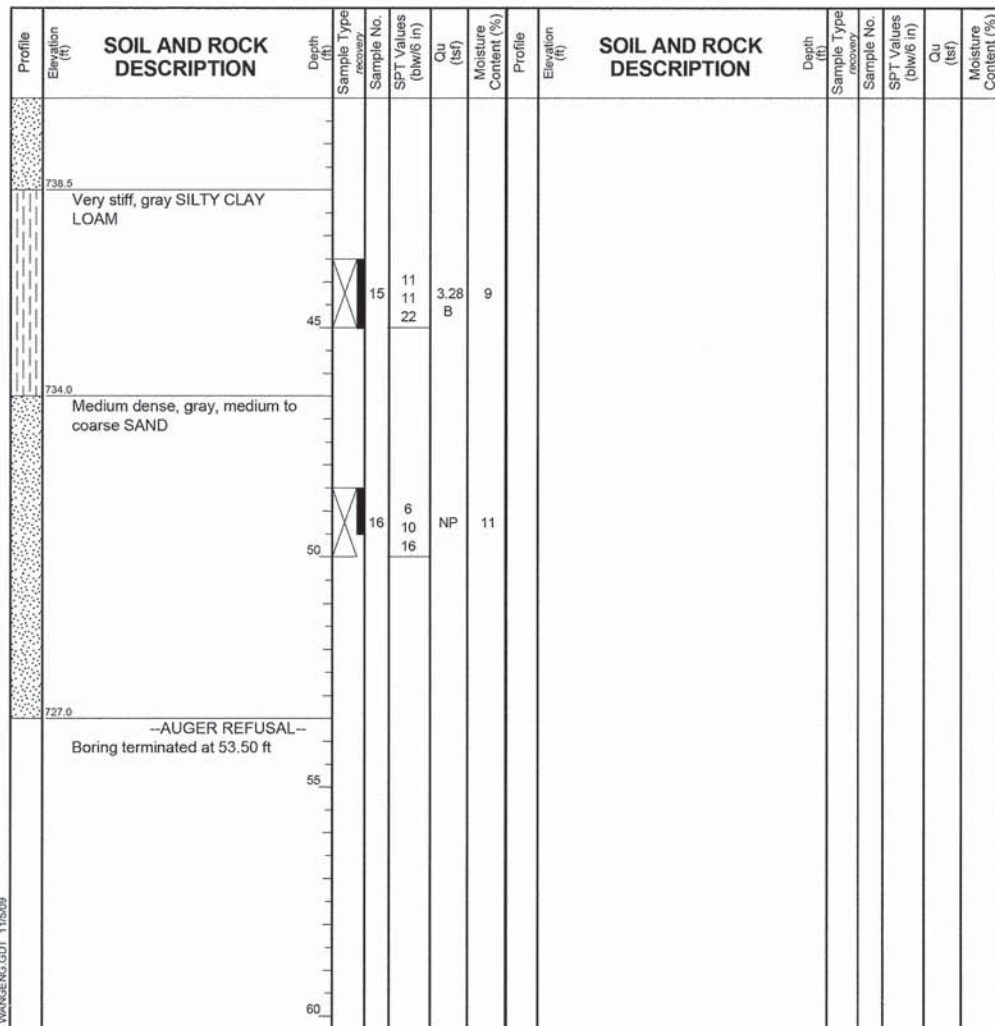
Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG SB-4
 WEI Job No.: 790-41-01

Datum: NGVD
 Elevation: 780.51 ft
 North: 2036322.53 ft
 East: 883497.09 ft
 Station: 115+25.48
 Offset: 4.5 LT

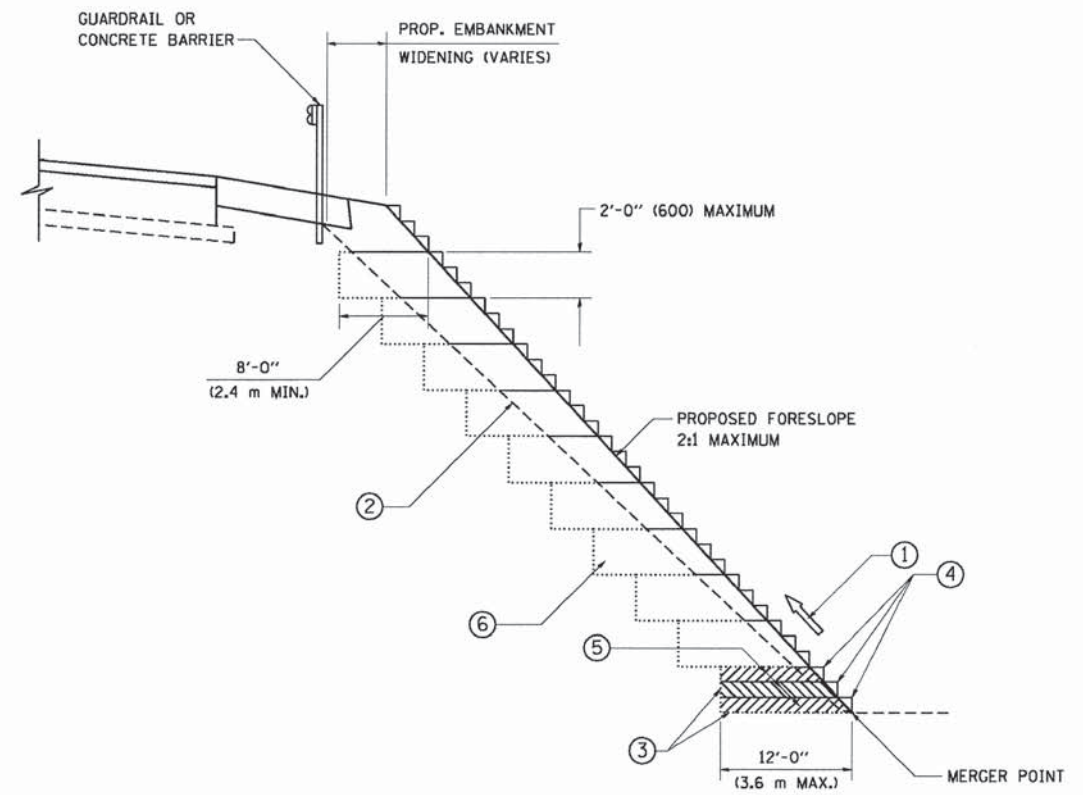
Client: **TranSystems Corporation**
 Project: **County Line Road over the Kishwaukee River**
 Location: **McHenry and Boone Counties, Illinois**

Page 2 of 2



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-15-2009	Complete Drilling	07-15-2009
Drilling Contractor	Wang Testing Services	Drill Rig	Mobile B-57 TMR
Driller	J&K	Logger	H Suhail
Checked by	M. Snider	Drilling Method	4.25 IDA HSA; Boring backfilled upon completion
While Drilling	11.50 ft	At Completion of Drilling	Washed
Time After Drilling	NA	Depth to Water	NA

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**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.

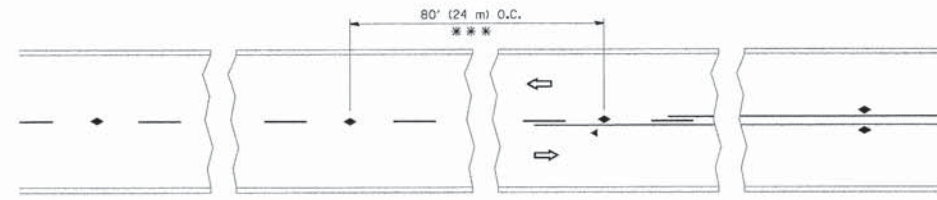
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		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

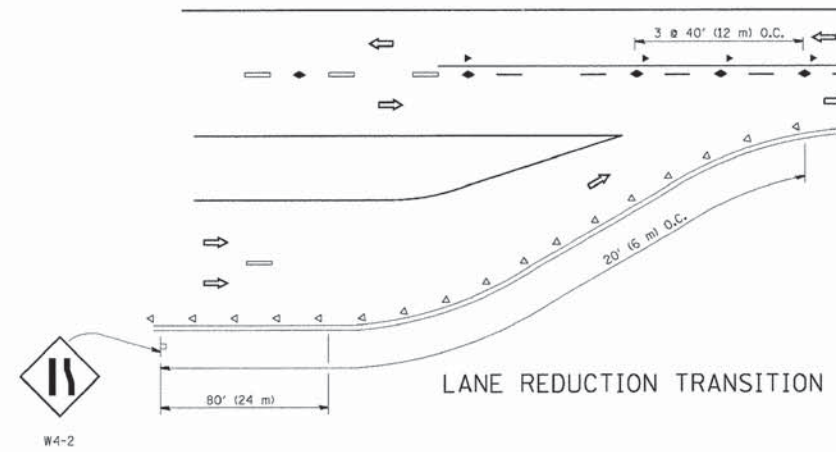
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD-51			CONTRACT NO. 61B05	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

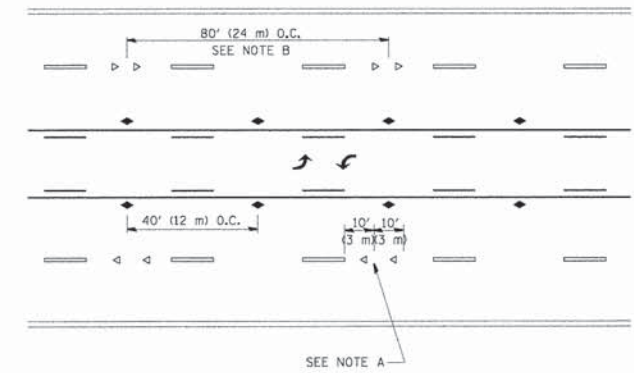


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

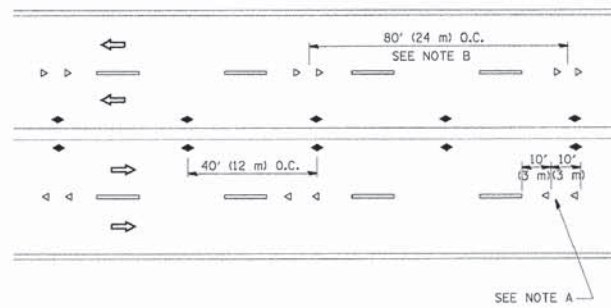
TWO-LANE/TWO-WAY



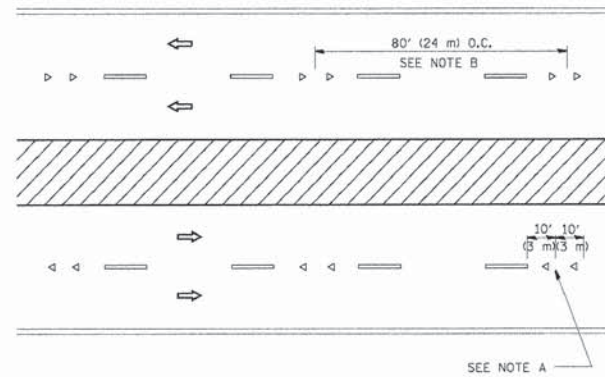
LANE REDUCTION TRANSITION



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

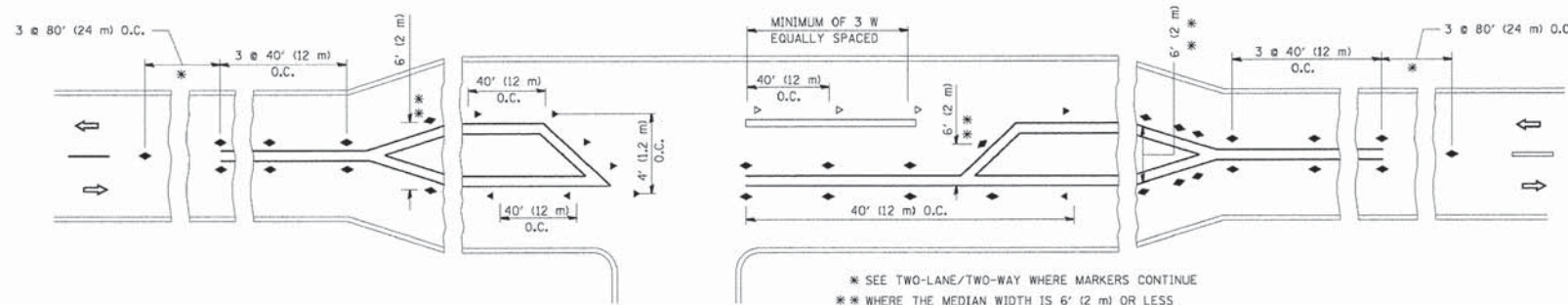
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



LEFT TURN

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

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

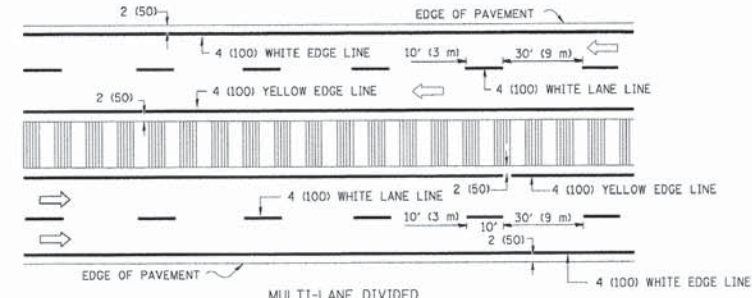
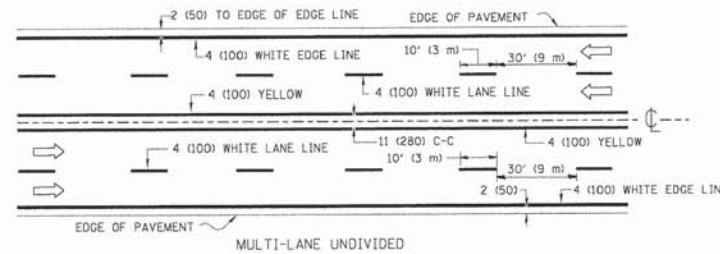
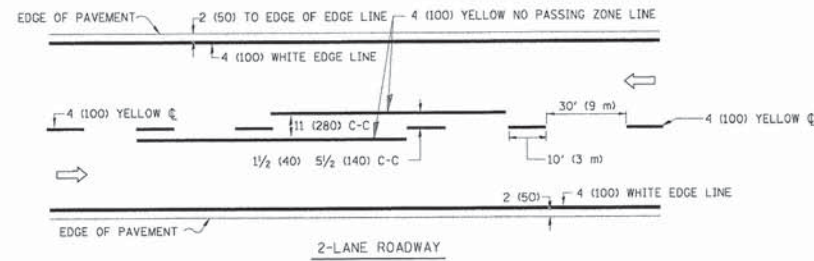
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	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

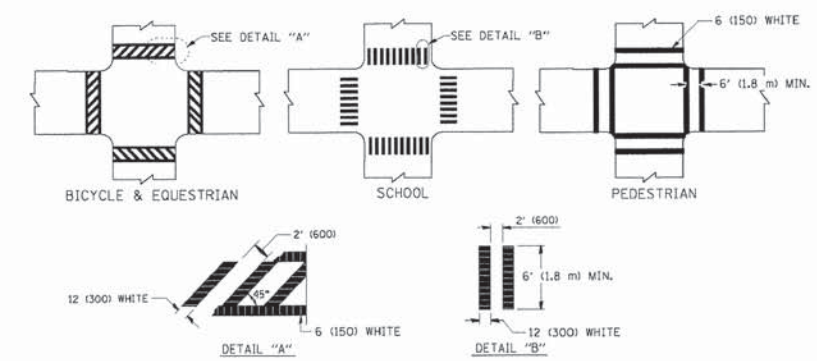
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 61B05	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

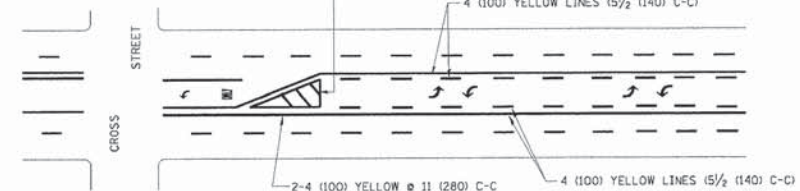
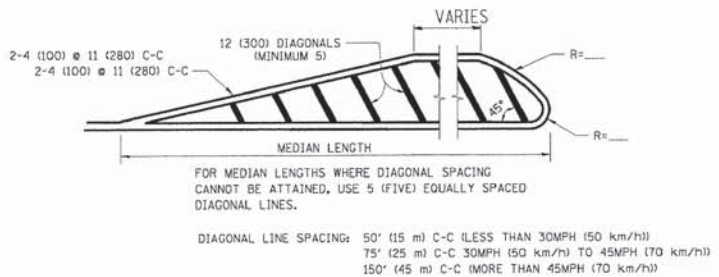
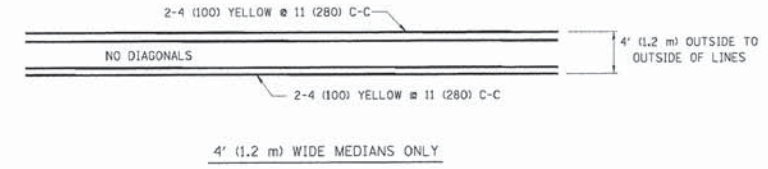


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

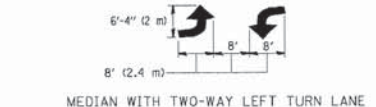
TYPICAL LANE AND EDGE LINE MARKING



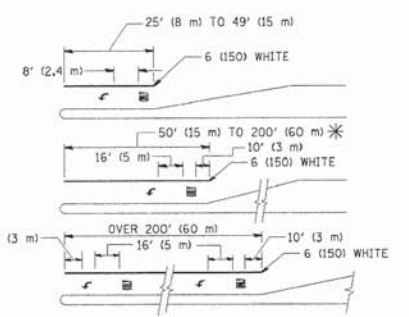
TYPICAL CROSSWALK MARKING



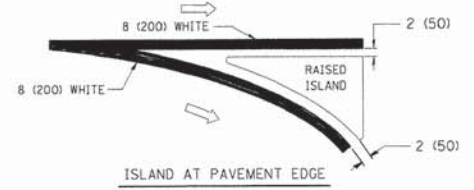
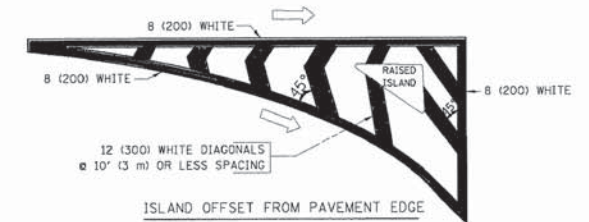
TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



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	5/2' (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; 5/2' (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"=84.0 SQ. FT. (7.7 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.

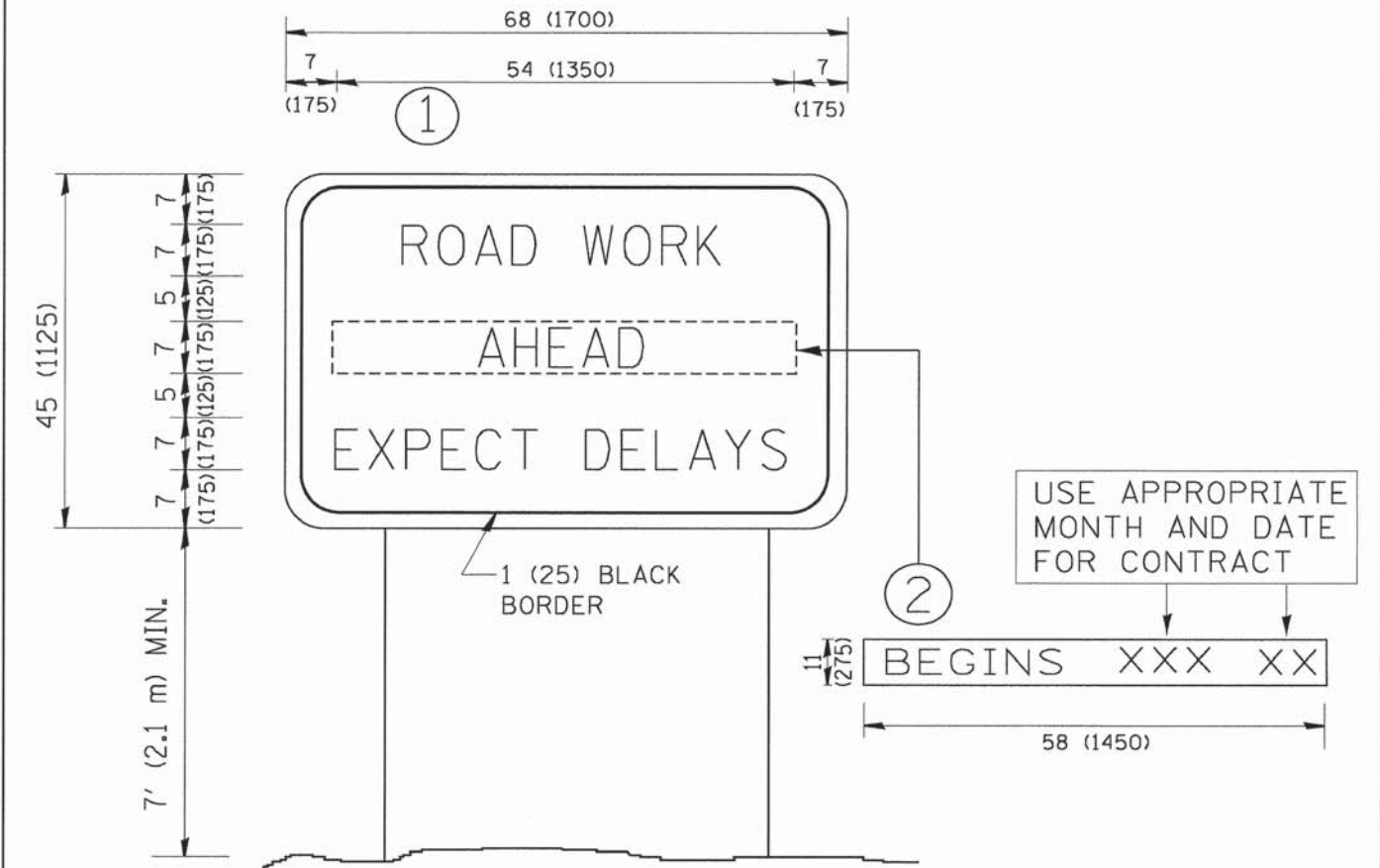
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		0002	08-00358-00-BR	MCHEMRY	61	40
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

DISTRICT ONE		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		0002	08-00358-00-BR	MCHEMRY	61	40
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		



NOTES:

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

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

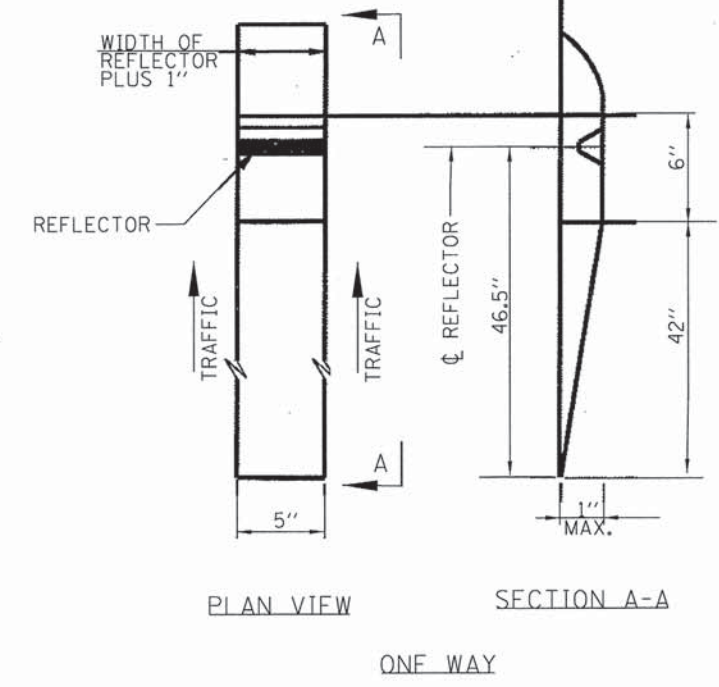
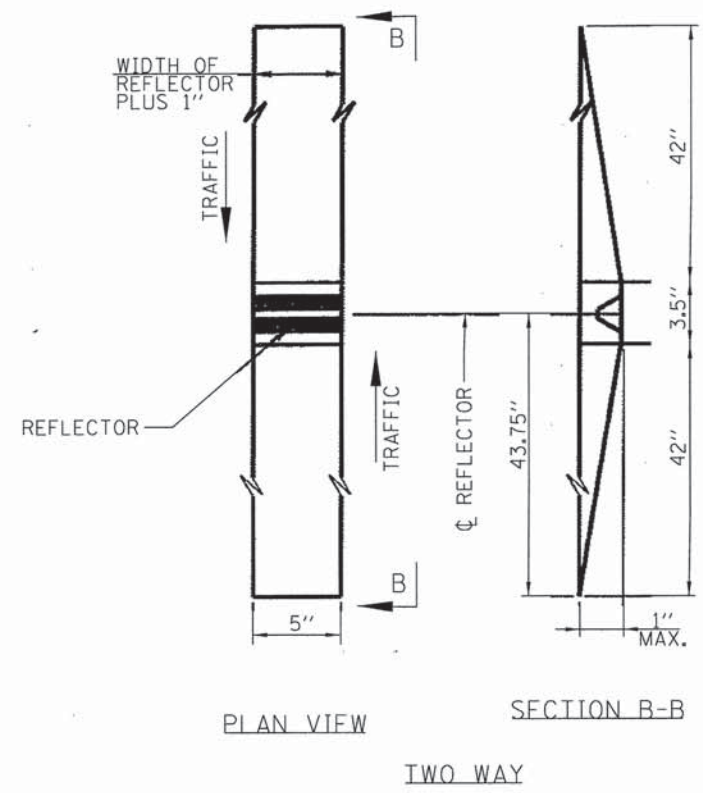
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	McHENRY	61	41
TC-22			CONTRACT NO. 61B05	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



RECESSED REFLECTIVE MARKERS

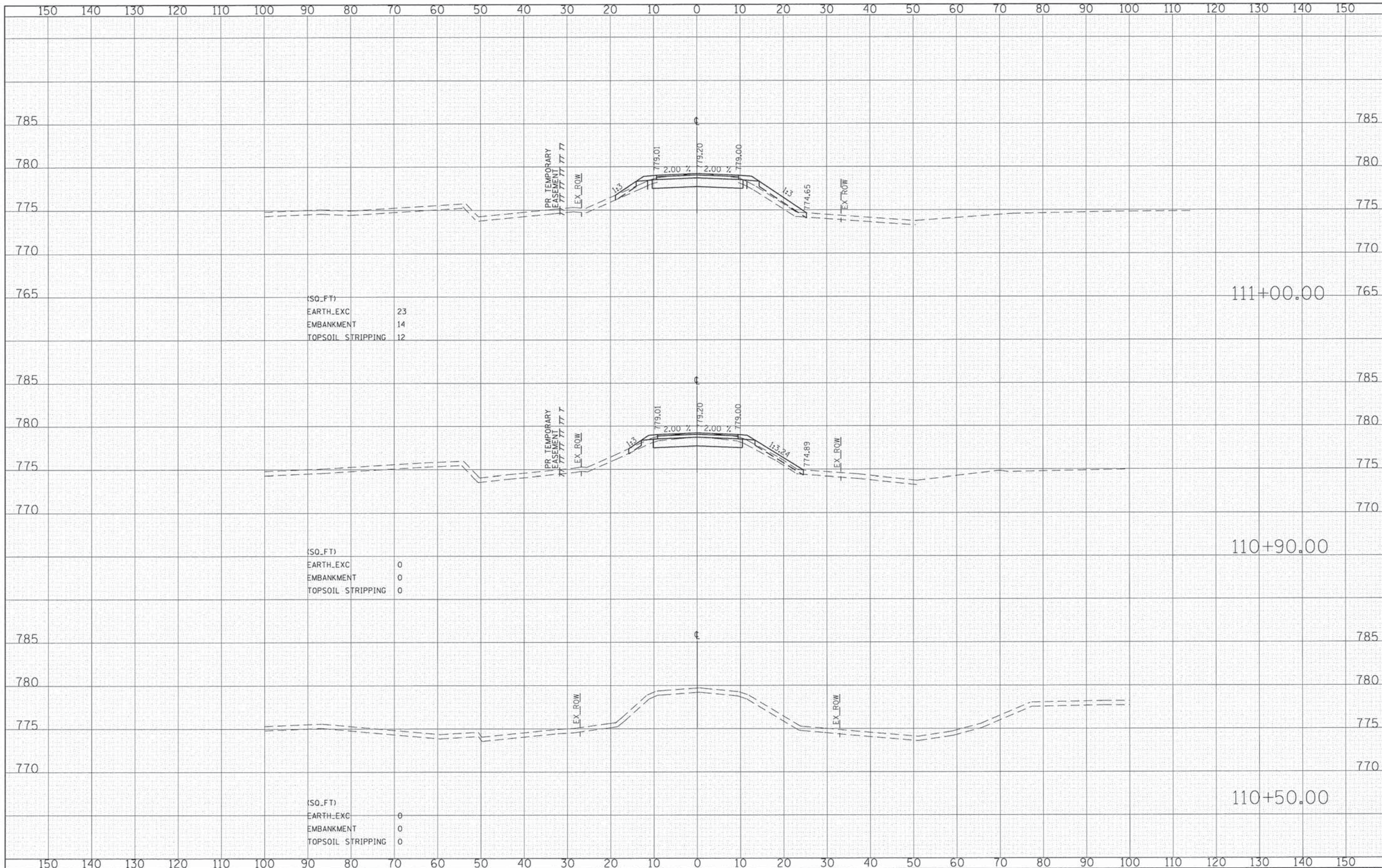
INSTALLATION NOTES:

1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF 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 1 / 2 TO 1 / 4 INCH BELOW THE PAVEMENT SURFACE.

GENERAL NOTES:

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

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	McHENRY COUNTY DIVISION OF TRANSPORTATION	RECESSED PAVEMENT MARKER DETAIL			TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	0002	08-00358-00-BR	McHENRY	61	42
		CHECKED -	REVISED -												
		DATE -	REVISED -												
														CONTRACT NO. 61B05	
														FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



(SQ.FT)	
EARTH_EXC	23
EMBANKMENT	14
TOPSOIL STRIPPING	12

(SQ.FT)	
EARTH_EXC	0
EMBANKMENT	0
TOPSOIL STRIPPING	0

(SQ.FT)	
EARTH_EXC	0
EMBANKMENT	0
TOPSOIL STRIPPING	0

DATE	
BY	
FINISHED SURVEY	
NOTED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NO.	

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G:\CHG\0065\Road\Sheets\10065-XSSH.dgn		DRAWN - CEC	REVISED -
		CHECKED - DWB	REVISED -
		DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY LINE ROAD
CROSS SECTIONS**

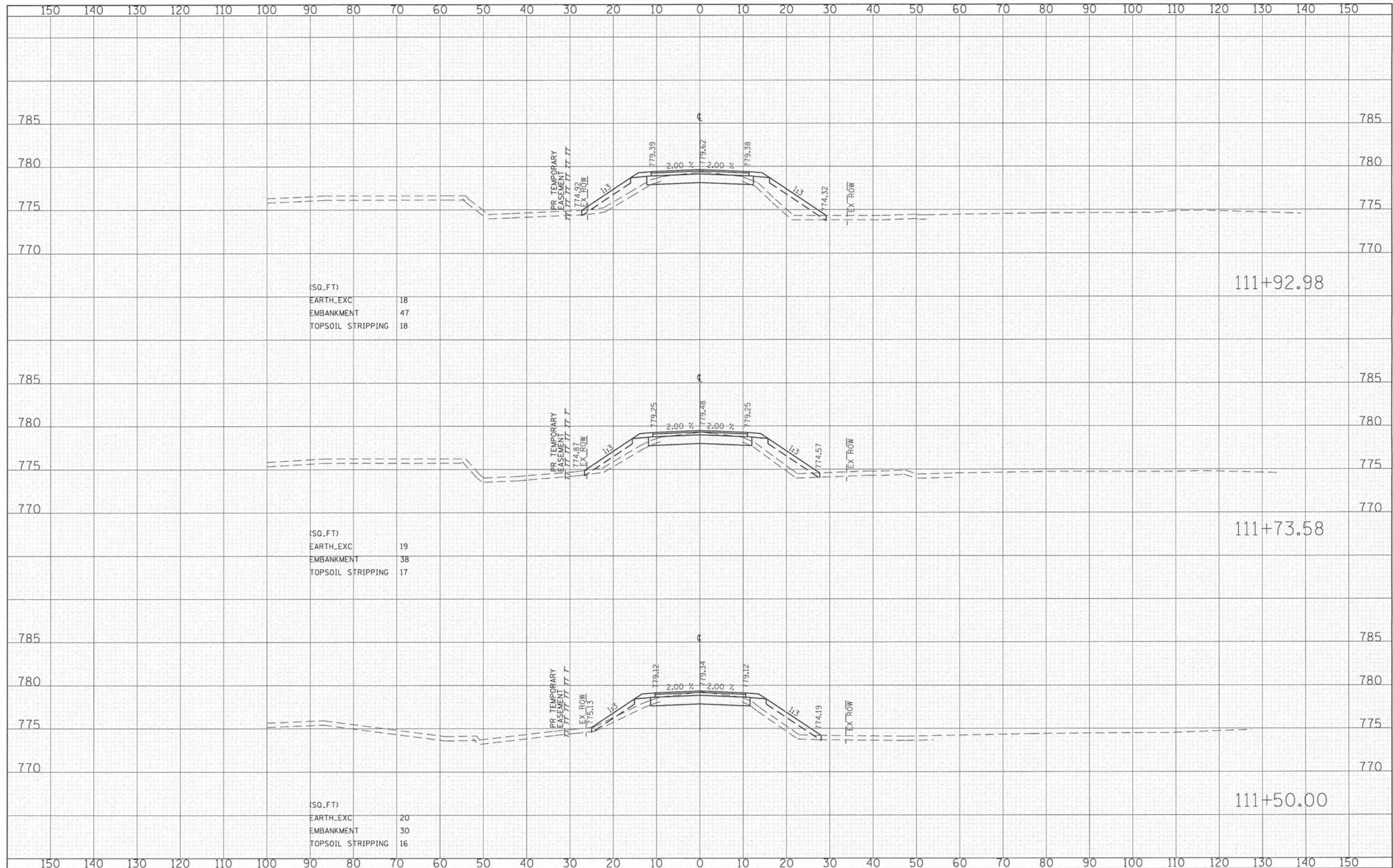
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SHEET NO. OF SHEETS STA. 110+50.00 TO STA. 111+00.00

TR. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	43
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61B05				

DATE	
BY	
FINN	
SURETY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	

DATE	
BY	
ORCINA	
SURETY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	



(SQ.FT)
 EARTH_EXC 18
 EMBANKMENT 47
 TOPSOIL STRIPPING 18

111+92.98

(SQ.FT)
 EARTH_EXC 19
 EMBANKMENT 38
 TOPSOIL STRIPPING 17

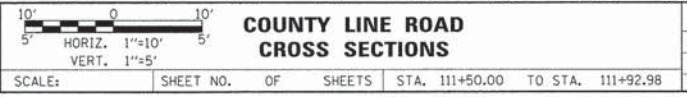
111+73.58

(SQ.FT)
 EARTH_EXC 20
 EMBANKMENT 30
 TOPSOIL STRIPPING 16

111+50.00

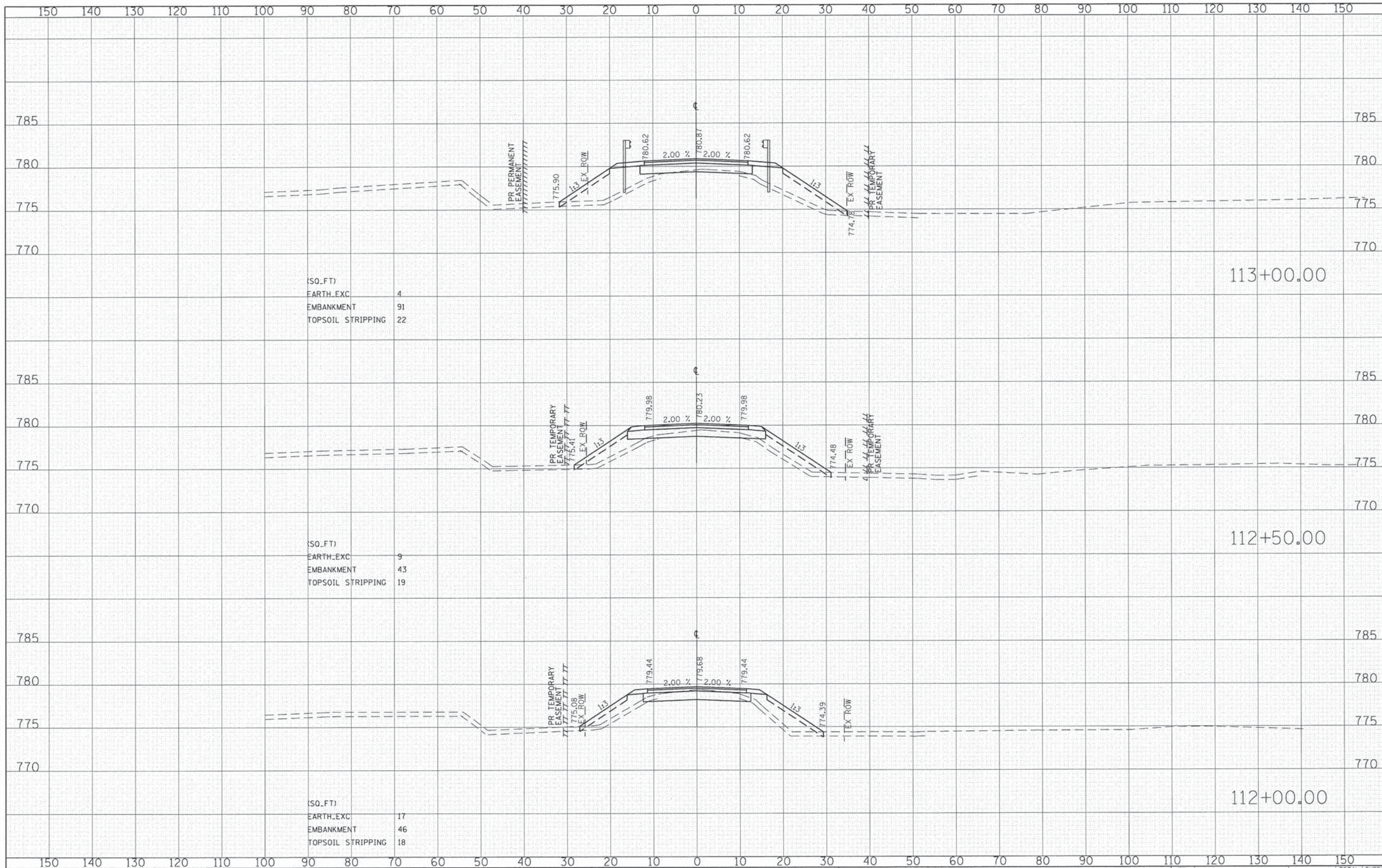
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		DATE - 02/02/2015	REVISED -
PLOT SCALE = 10.0000' / 1"			
PLOT DATE = 2/9/2015			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**COUNTY LINE ROAD
 CROSS SECTIONS**

TR. RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 44
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61B05				



DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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		DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

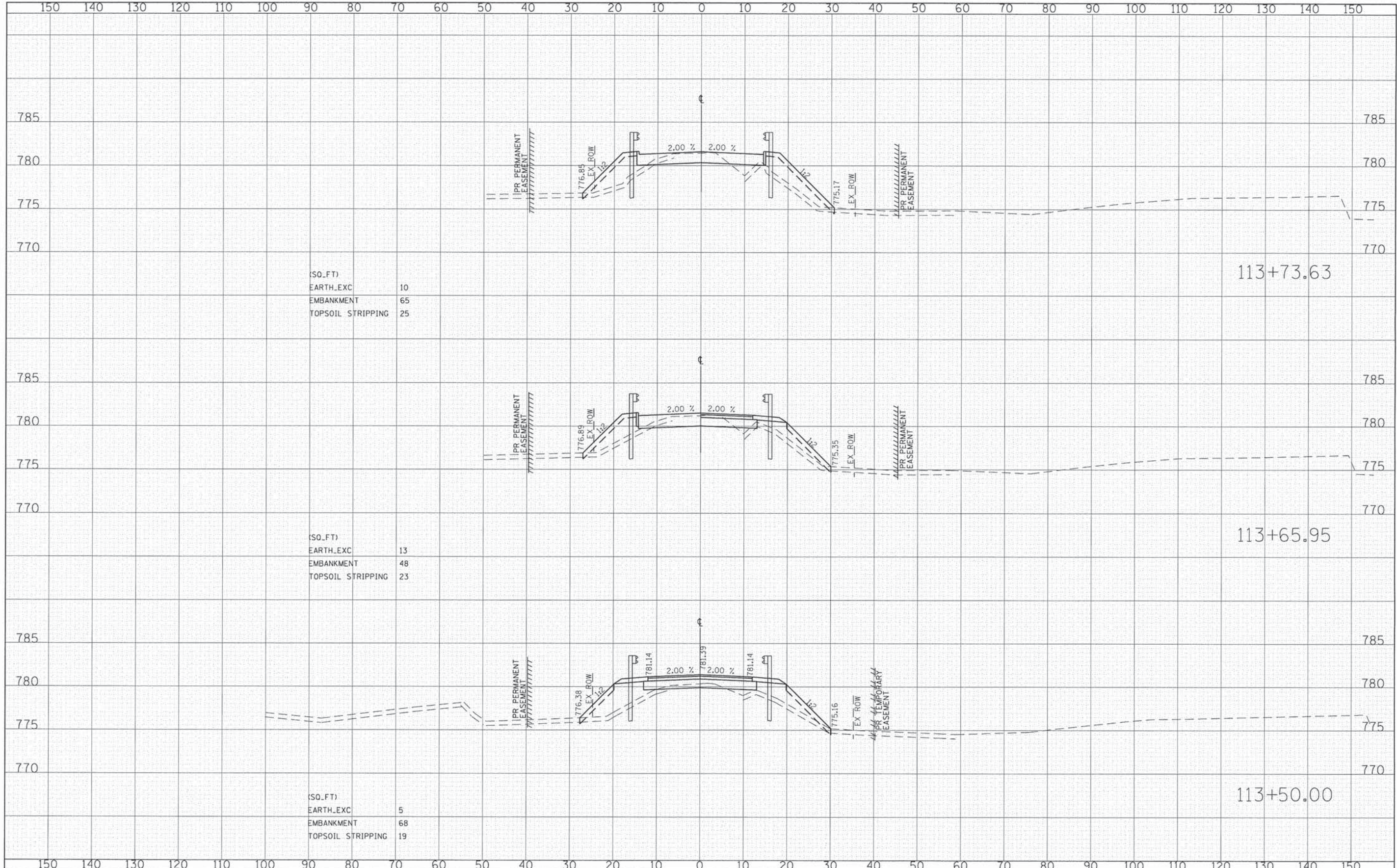
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5'		5'
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VERT. 1"=5'		
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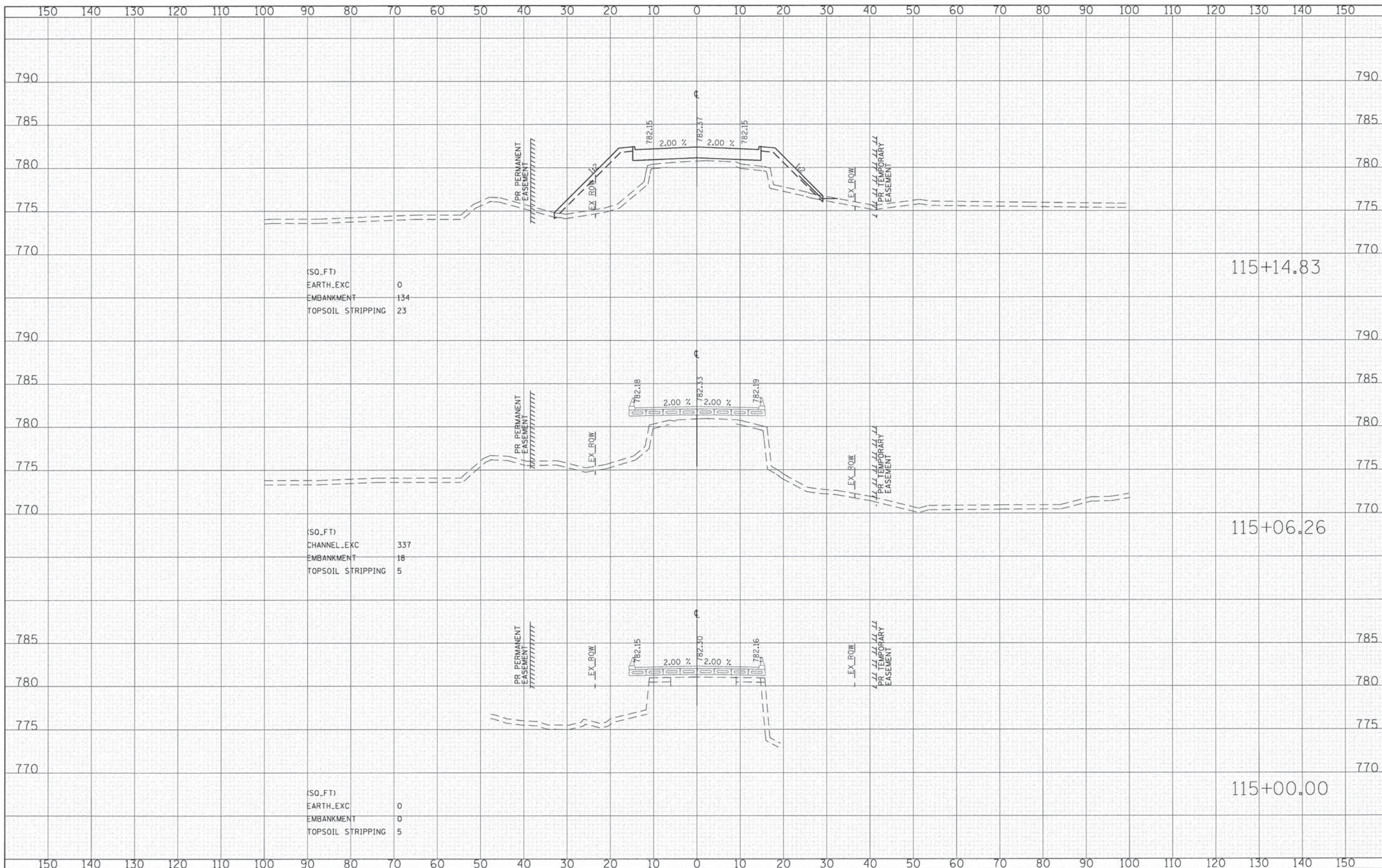
**COUNTY LINE ROAD
CROSS SECTIONS**

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	45
CONTRACT NO. 61B05			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	





(SQ.FT)
 EARTH_EXC 0
 EMBANKMENT 134
 TOPSOIL STRIPPING 23

115+14.83

(SQ.FT)
 CHANNEL_EXC 337
 EMBANKMENT 18
 TOPSOIL STRIPPING 5

115+06.26

(SQ.FT)
 EARTH_EXC 0
 EMBANKMENT 0
 TOPSOIL STRIPPING 5

115+00.00

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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		DRAWN - CEC	REVISED -
		CHECKED - DWB	REVISED -
		DATE - 02/02/2015	REVISED -
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PLOT DATE = 2/9/2015			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

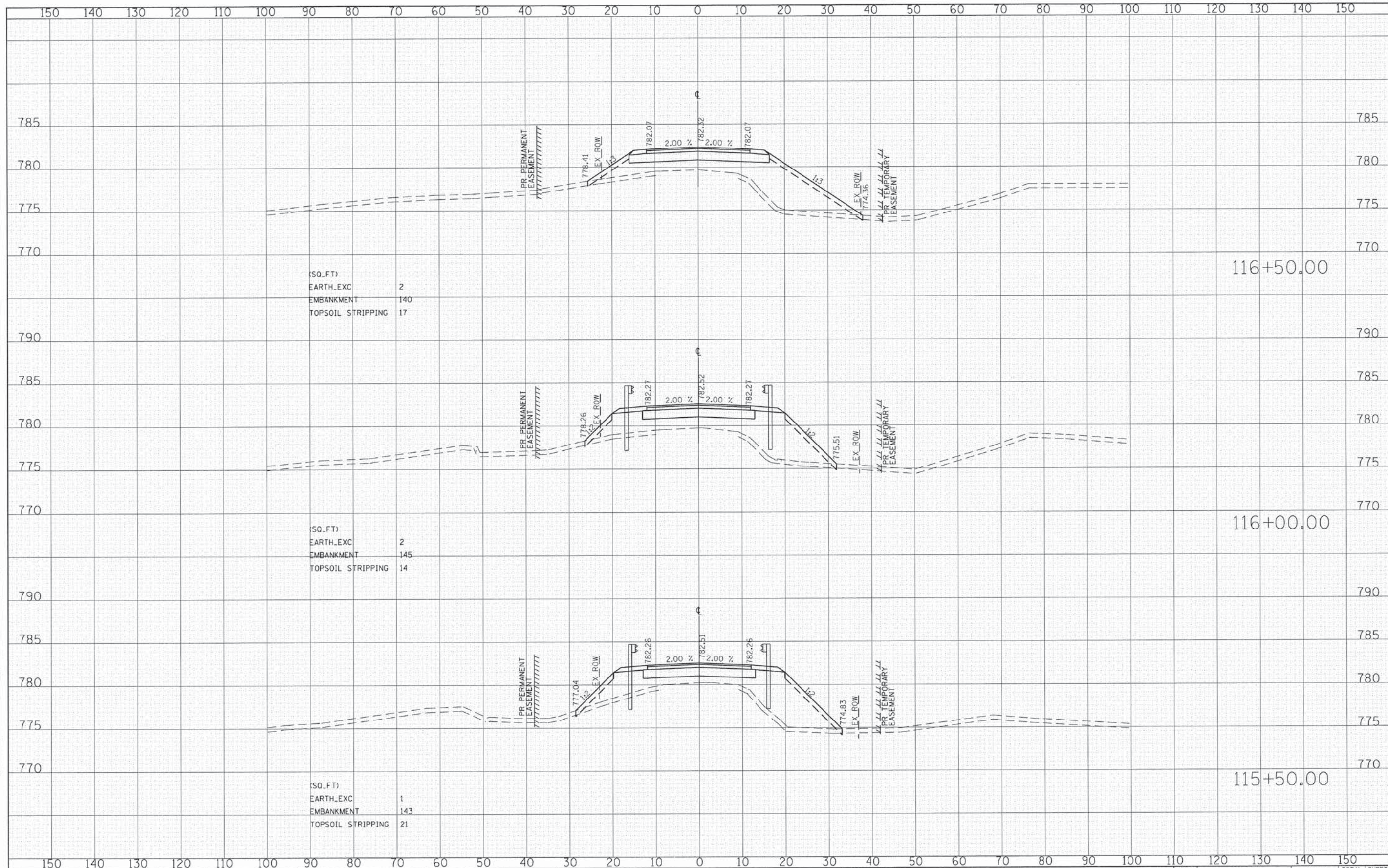
**COUNTY LINE ROAD
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 115+00.00 TO STA. 115+14.83

TR. RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 48
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B05	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



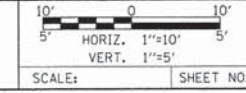
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 PLOT DATE = 2/9/2015

DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 02/02/2015

REVISED -
 REVISED -
 REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



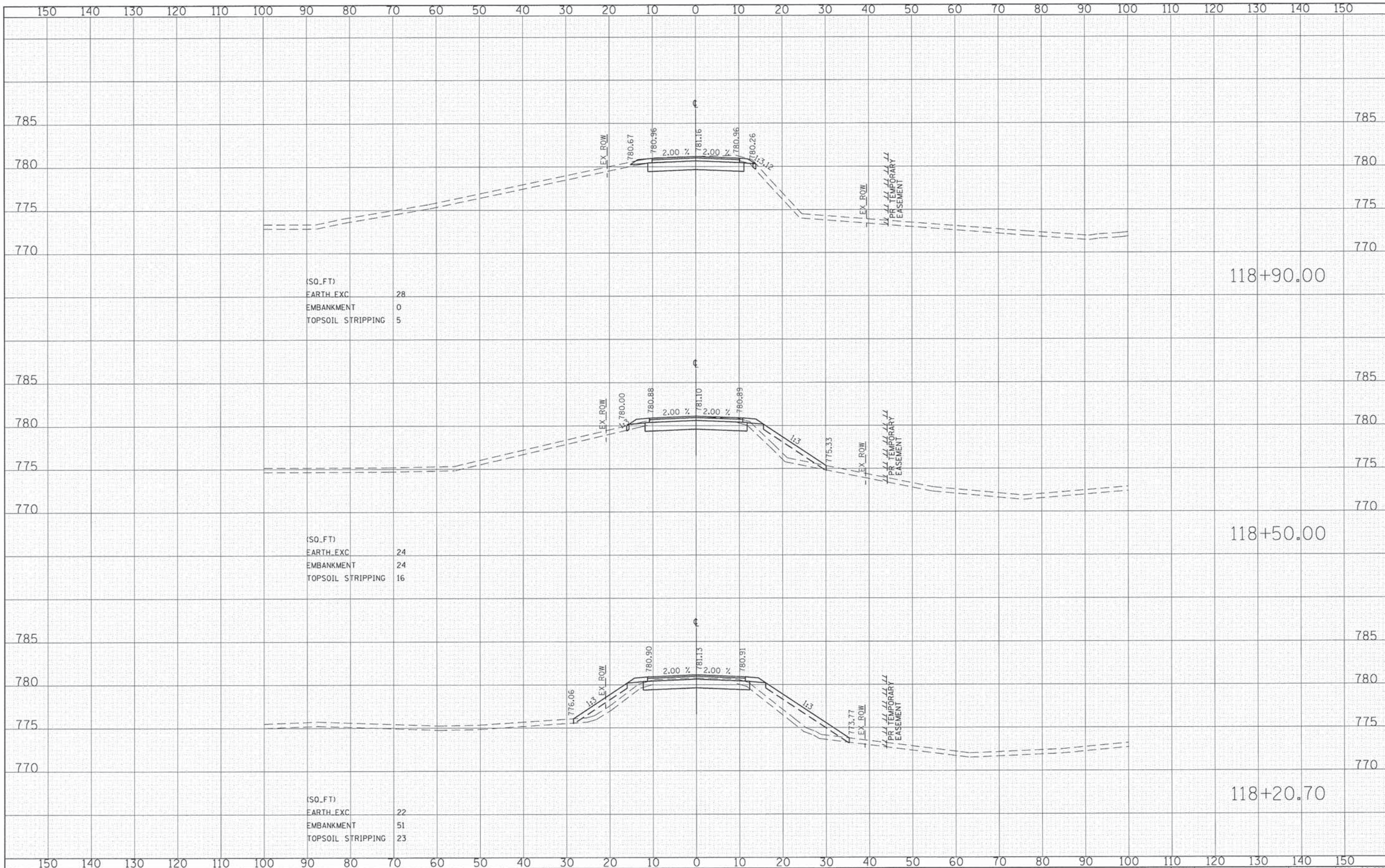
COUNTY LINE ROAD
 CROSS SECTIONS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	49
CONTRACT NO. 61B05				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DATE	
BY	
NO.	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



(SQ. FT)

EARTH EXC	28
EMBANKMENT	0
TOPSOIL STRIPPING	5

(SQ. FT)

EARTH EXC	24
EMBANKMENT	24
TOPSOIL STRIPPING	16

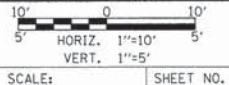
(SQ. FT)

EARTH EXC	22
EMBANKMENT	51
TOPSOIL STRIPPING	23

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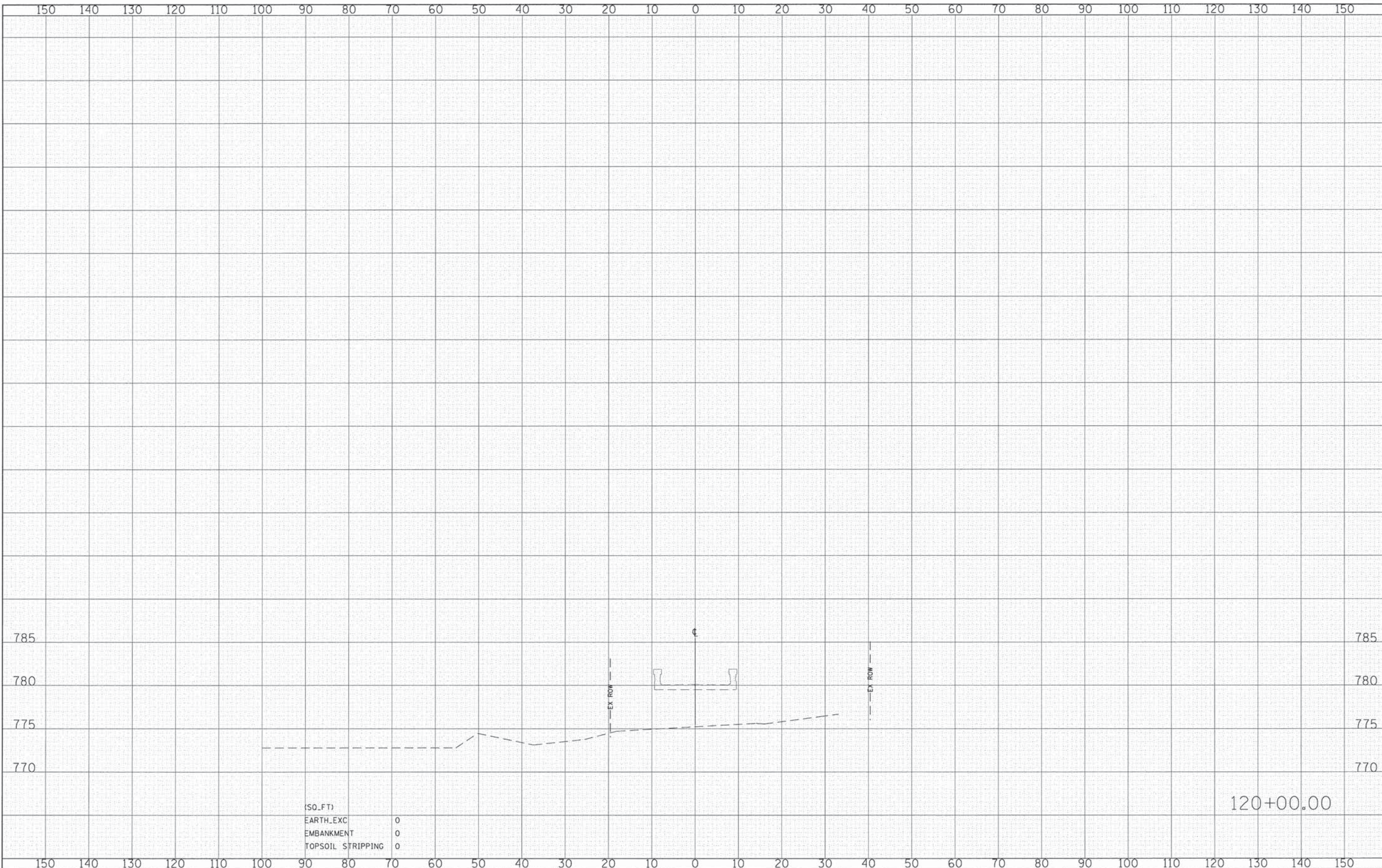
USER NAME * CEC	DESIGNED - CEC	REVISED -
	DRAWN - CEC	REVISED -
	CHECKED - DWB	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**COUNTY LINE ROAD
CROSS SECTIONS**

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	51
CONTRACT NO. 61B05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ISO_FT
 EARTH_EXC 0
 EMBANKMENT 0
 TOPSOIL STRIPPING 0

120+00.00

DATE	
BY	
NO.	
AREA CHECKED	
AREAS	
PLATE	
FORM	
NOTE	
BOOK	
SURVEY	
FIRM	

DATE	
BY	
NO.	
AREA CHECKED	
AREAS	
PLATE	
FORM	
NOTE	
BOOK	
SURVEY	
FIRM	

FILE NAME =
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USER NAME = CECmin
 PLOT SCALE = 10.0000' / 1in.
 PLOT DATE = 2/9/2015

DESIGNED -	CEC	REVISED -	
DRAWN -	CEC	REVISED -	
CHECKED -	DWB	REVISED -	
DATE -	02/02/2015	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

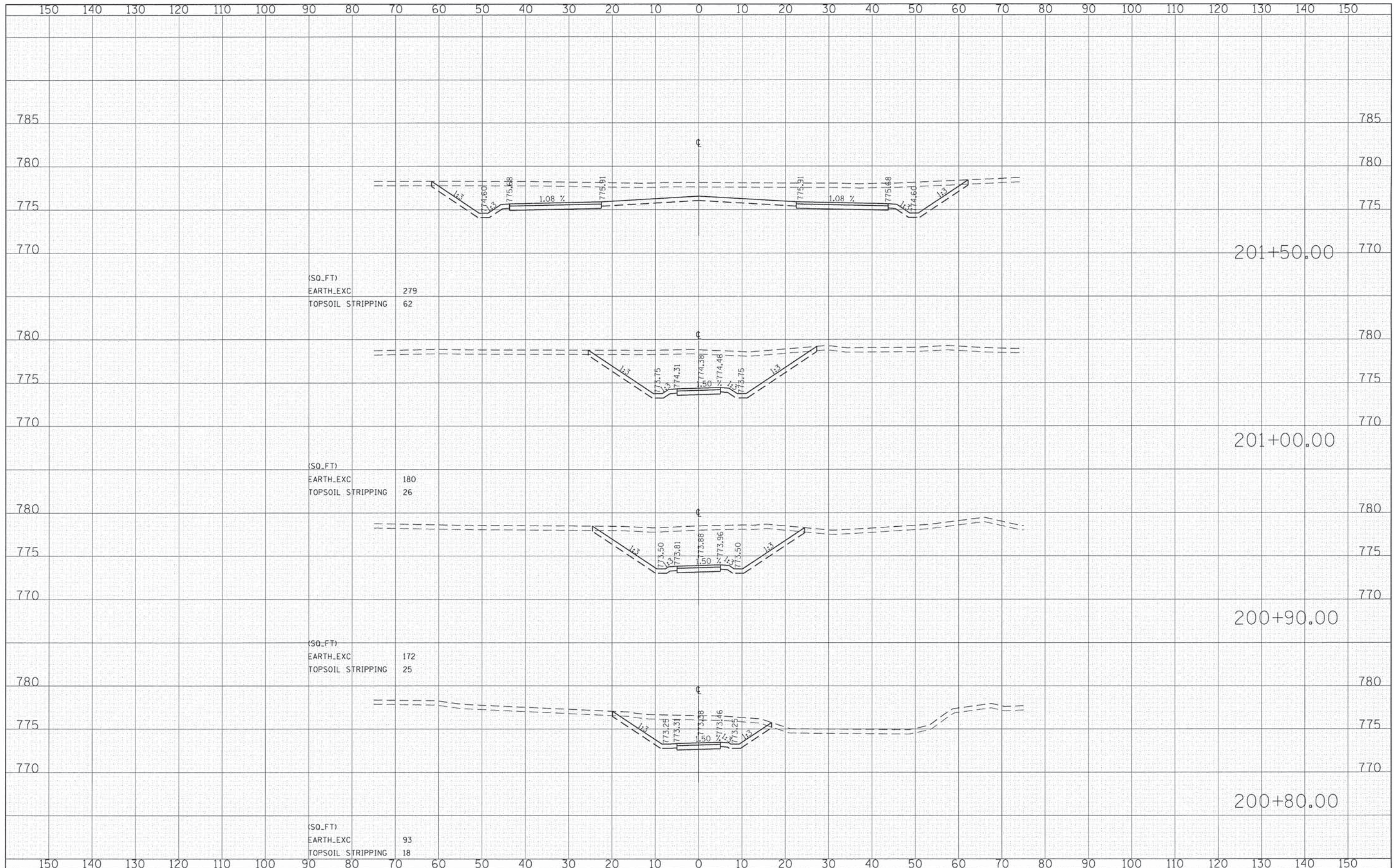
SCALE:
 HORIZ. 1"=10'
 VERT. 1"=5'

COUNTY LINE ROAD
 CROSS SECTIONS
 SHEET NO. OF SHEETS STA. 120+00.00 TO STA. 120+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	53
CONTRACT NO. 61B05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

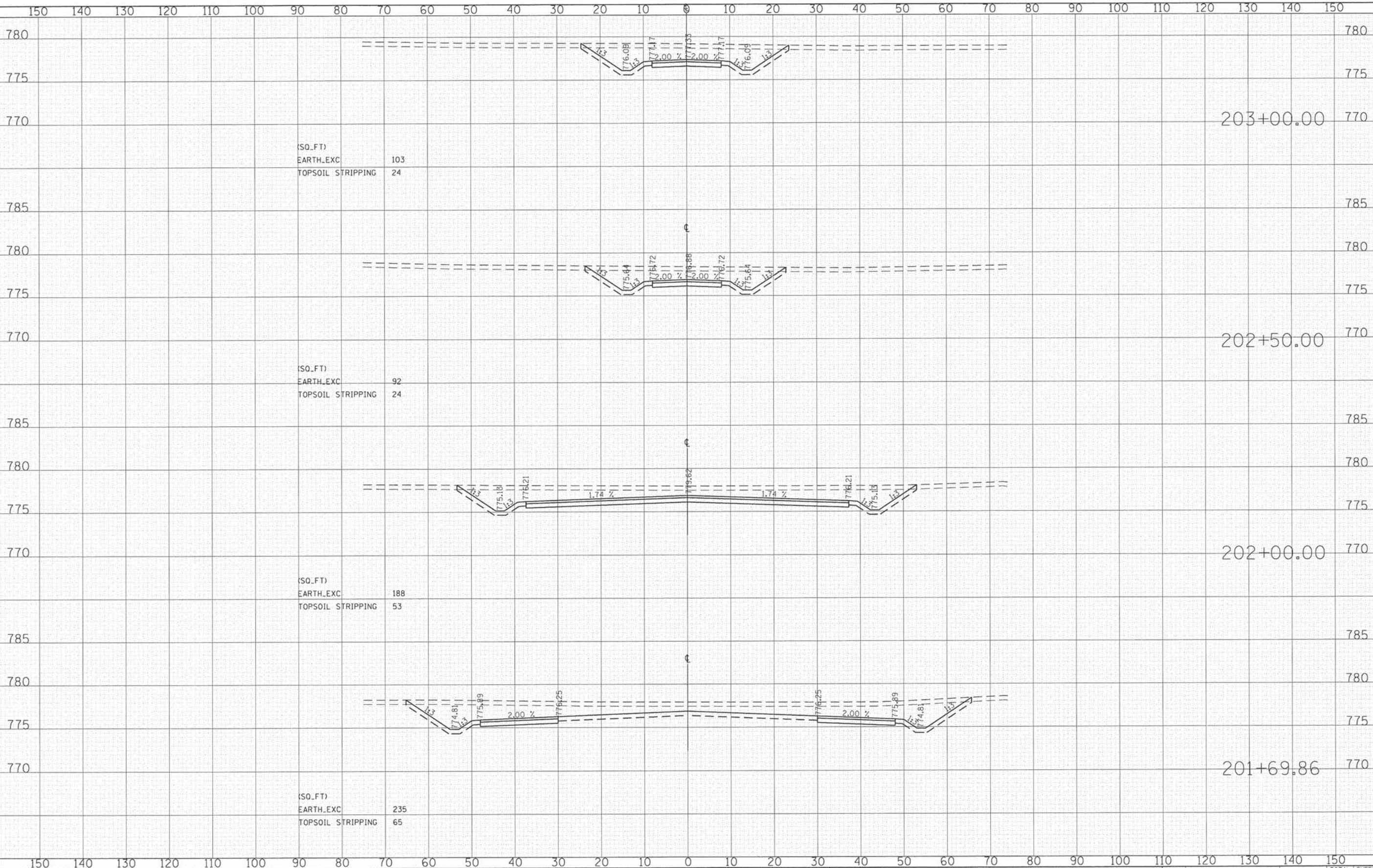
DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME: G:\CH02\0065\Road\Sheets\120065-KSH\PrAccessRoad.dgn	USER NAME: CEC\cmn	DESIGNED: CEC	REVISED: -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	TR. RTE. 0002	SECTION 08-00358-00-BR	COUNTY MCHENRY	TOTAL SHEETS 61	SHEET NO. 54
PLOT SCALE: 10.0000' / 1"	CHECKED: DWB	REVISOR: -	SCALE: SHEET NO. OF SHEETS STA. 200+80.00 TO STA. 201+50.00		CONTRACT NO. 61B05				
PLOT DATE: 2/9/2015	DATE: 02/02/2015	REVISOR: -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

785 785



(SQ.FT)
EARTH_EXC 103
TOPSOIL STRIPPING 24

(SQ.FT)
EARTH_EXC 92
TOPSOIL STRIPPING 24

(SQ.FT)
EARTH_EXC 188
TOPSOIL STRIPPING 53

(SQ.FT)
EARTH_EXC 235
TOPSOIL STRIPPING 65

203+00.00

202+50.00

202+00.00

201+69.86

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO. AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO. AREAS CHECKED	

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	PLOT DATE = 2/9/2015	DATE - 02/02/2015	REVISED -

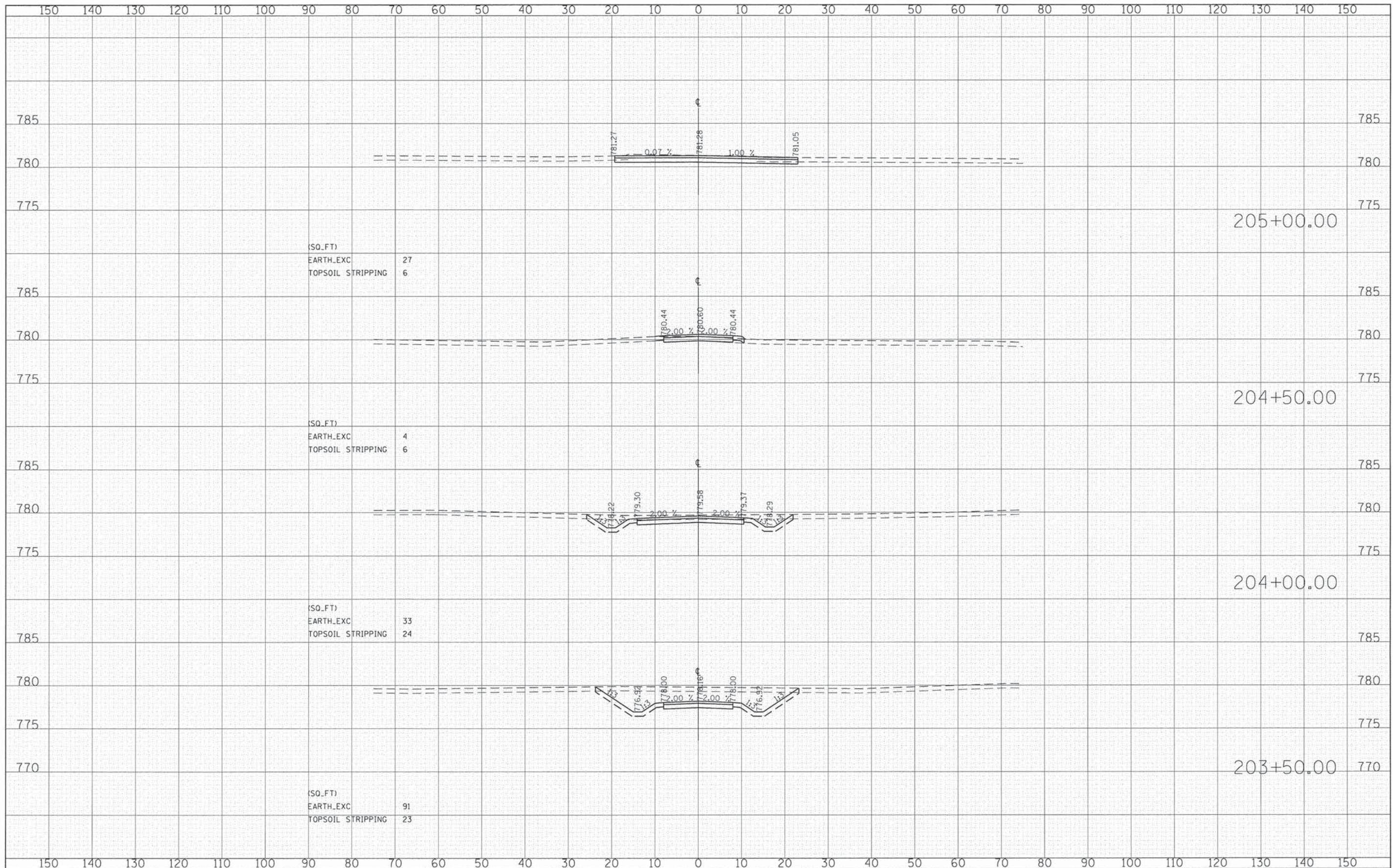
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		CANOE LAUNCH ACCESS ROAD CROSS SECTIONS	
HORIZ. 1"=10' VERT. 1"=5'		SCALE:	SHEET NO. OF SHEETS STA. 201+69.86 TO STA. 203+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	55
CONTRACT NO. 61B05			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



(SQ. FT)
EARTH_EXC 27
TOPSOIL STRIPPING 6

(SQ. FT)
EARTH_EXC 4
TOPSOIL STRIPPING 6

(SQ. FT)
EARTH_EXC 33
TOPSOIL STRIPPING 24

(SQ. FT)
EARTH_EXC 91
TOPSOIL STRIPPING 23

205+00.00

204+50.00

204+00.00

203+50.00

FILE NAME =	USER NAME = CEComan	DESIGNED - CEC	REVISED -
G:\CH10\0065\Road\Sheets\100065-XSShtPr-AccessRd.dgn		DRAWN - CEC	REVISED -
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		DATE - 02/02/2015	REVISED -

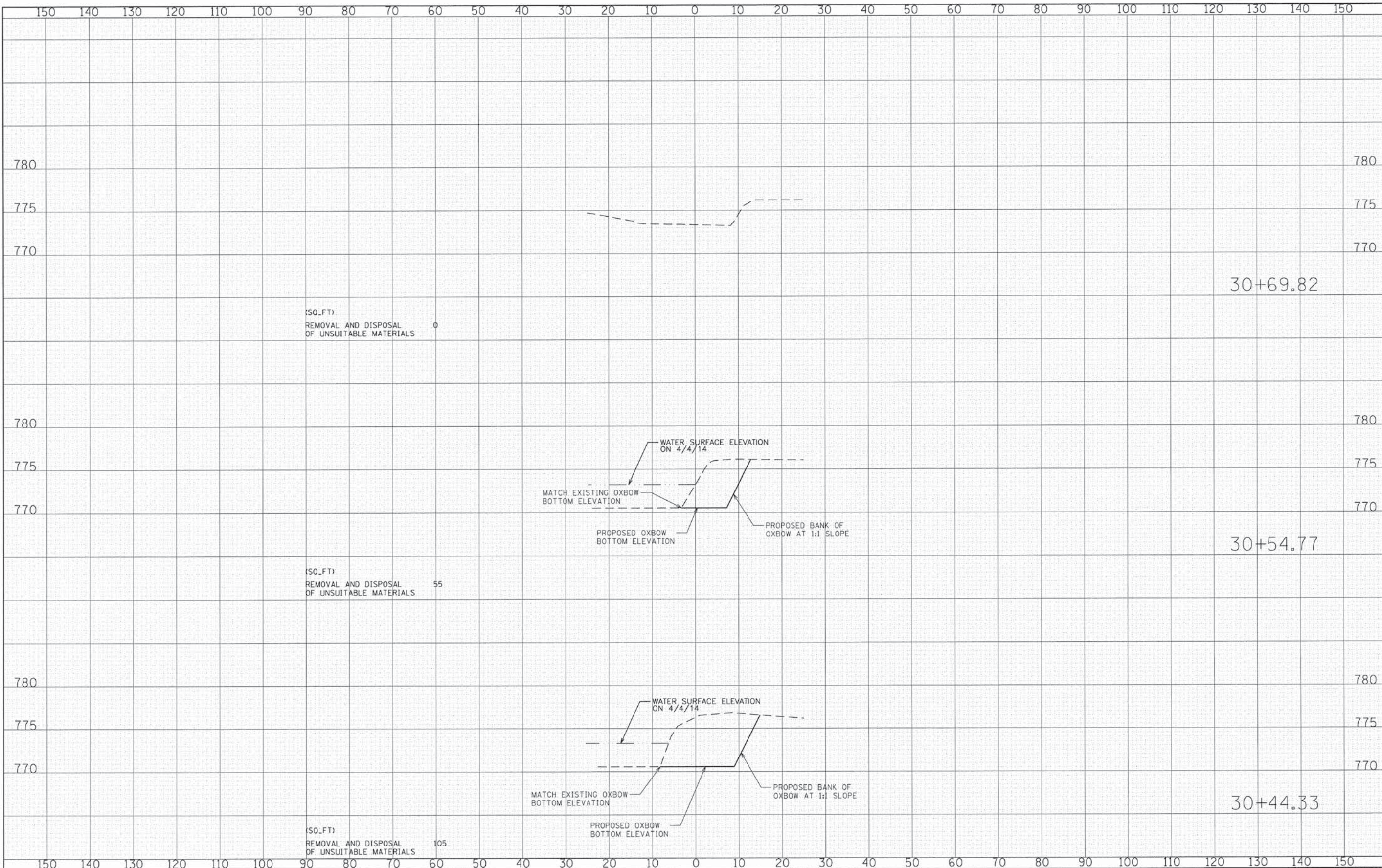
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANOE LAUNCH ACCESS ROAD
CROSS SECTIONS**

SCALE: HORIZ. 1"=10'
VERT. 1"=5'

SHEET NO. OF SHEETS STA. 203+50.00 TO STA. 205+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	56
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61B05	



(SQ.FT)
REMOVAL AND DISPOSAL
OF UNSUITABLE MATERIALS 0

(SQ.FT)
REMOVAL AND DISPOSAL
OF UNSUITABLE MATERIALS 55

(SQ.FT)
REMOVAL AND DISPOSAL
OF UNSUITABLE MATERIALS 105

WATER SURFACE ELEVATION
ON 4/4/14
MATCH EXISTING OXBOW
BOTTOM ELEVATION
PROPOSED OXBOW
BOTTOM ELEVATION
PROPOSED BANK OF
OXBOW AT 1:1 SLOPE

WATER SURFACE ELEVATION
ON 4/4/14
MATCH EXISTING OXBOW
BOTTOM ELEVATION
PROPOSED OXBOW
BOTTOM ELEVATION
PROPOSED BANK OF
OXBOW AT 1:1 SLOPE

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

FILE NAME =
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USER NAME = CECCom
PLOT SCALE = 10,000 1" = 100'
PLOT DATE = 2/9/2015

DESIGNED - CEC
DRAWN - CEC
CHECKED - DWB
DATE - 02/02/2015

REVISED -
REVISED -
REVISED -
REVISED -

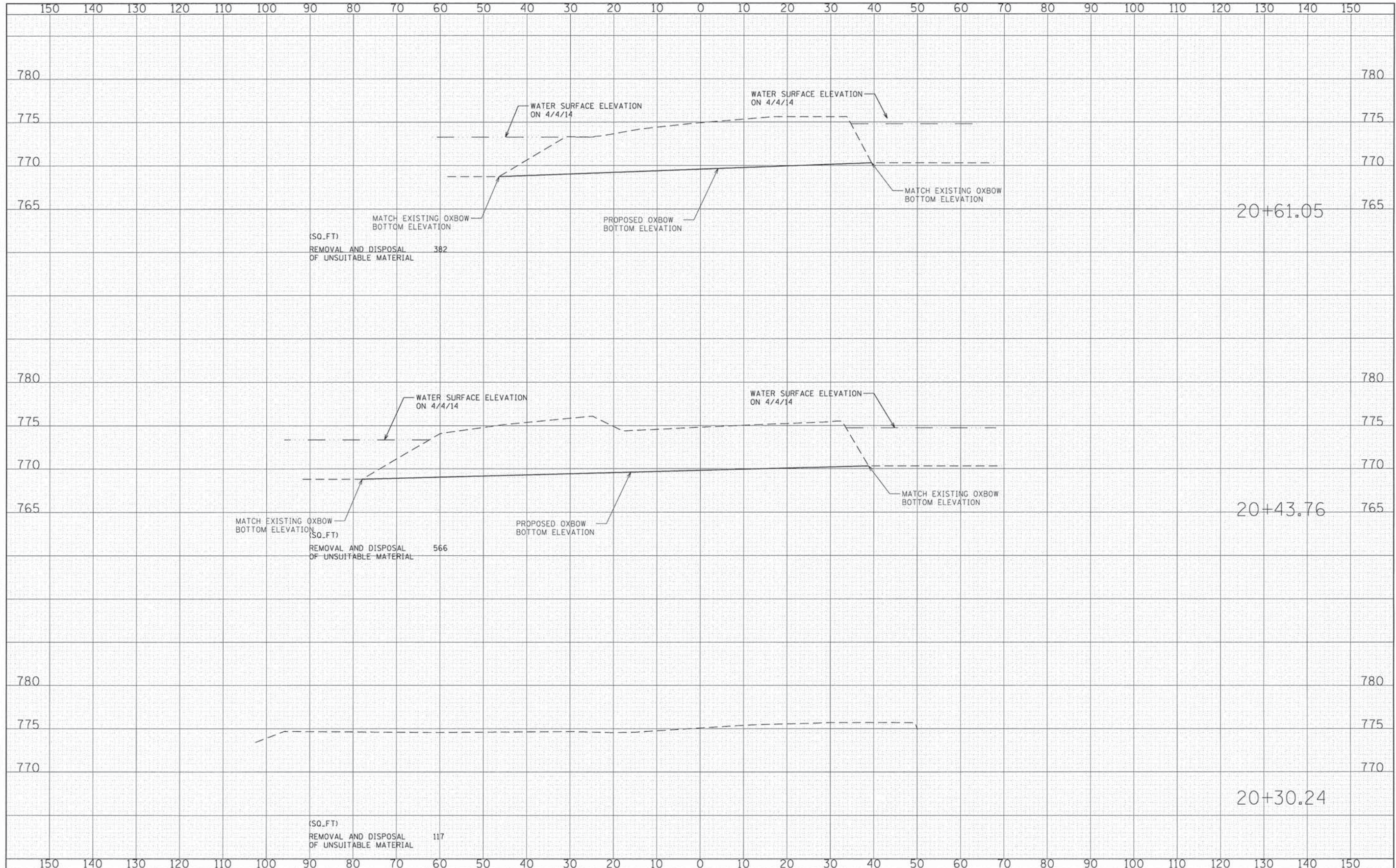
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 10' 0' 10'
HORIZ. 1"=10'
VERT. 1"=5'
WEST OXBOW EXCAVATION AREA
CROSS SECTIONS
SHEET NO. OF SHEETS STA. 30+44.33 TO STA. 30+69.82

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B05	

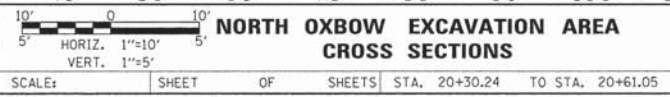
DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME =	USER NAME = CECadmin	DESIGNED - CEC	REVISED -
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		CHECKED - DWB	REVISED -
		DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0002	08-00358-00-BR	MCHENRY	61	60
CONTRACT NO. 61B05				
ILLINOIS FED. AID PROJECT				

