

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 90 (I-90)  
SECTION (X2-1) R  
PROJECT: ACNHI-090-1(032)000  
ROADWAY & BRIDGE RECONSTRUCTION  
WINNEBAGO COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	1
ILLINOIS CONTRACT NO. 64C29			*510 + 3 = 513	

D-92-066-06



PROJECT MANAGER: McCLURE ENGINEERING: PATRICK D. STEWART (815) 398-2332  
PROJECT ENGINEER: IDOT: MASOOD AHMAD (815) 284-5510 SENIOR SQUAD LEADER : SAMER ABDULLAH (815) 284-5935

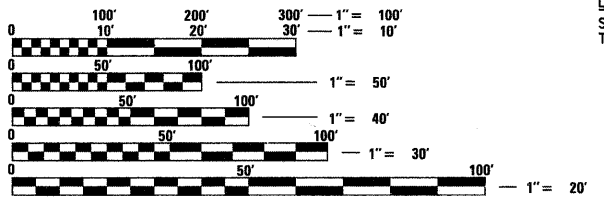
FOR INDEX OF SHEETS, SEE SHEET NO. IN01  
FOR STATE STANDARDS, SEE SHEET NO. IN02

**TRAFFIC VOLUMES:**  
I-90 CURRENT ADT: 39,700 (2009) WITH 34% TRUCKS

**DESIGN DESIGNATION**  
FAI ROUTE 90 (I-90) - 7755(32) INTERSTATE 112.2 (PCC-20)  
IL 75 RAMPS - 530(32) RAMP 17.26 (PCC-20)  
VISITOR CENTER RAMPS - 60(32) RAMP 0.27 (PCC-20)  
ROCKTON ROAD RAMPS - 430(32) RAMP 7.69 (PCC-20)

**STATION EQUATION**  
EB I-90 CENTERLINE STA 0+00.00 =  
WB I-90 CENTERLINE STA 1000+00.00

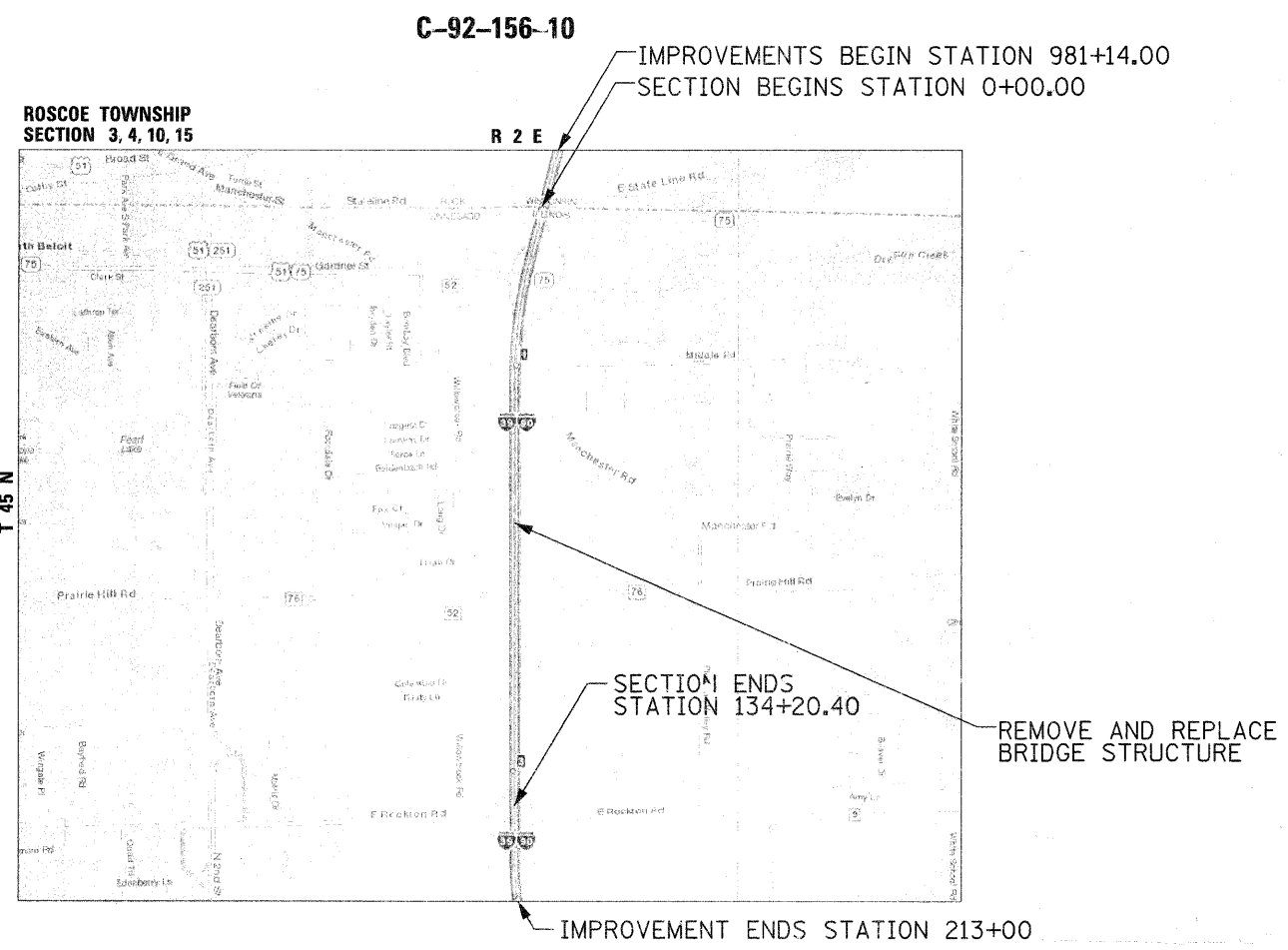
**BRIDGE WORK**  
STRUCTURE NO.'S 101-0001 & 101-0002 ARE TO BE REMOVED AND REPLACED



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

CONTRACT NO. 64C29



GROSS LENGTH (I-90) = 23,186.00 FT. = 4.39 MILE  
NET LENGTH (I-90) = 13,420.40 FT. = 2.54 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED October 26 20 11  
Eric S. Therkildsen  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9 20 11  
Scott E. Stitt P.E. Ia  
acting ENGINEER OF DESIGN AND ENVIRONMENT

December 9 20 11  
William R. Fryer Ia  
Interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Rev. 1-9-12

**IDOT HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 353001-04 PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
- 420001-07 PAVEMENT JOINTS
- 420101-04 24' (7.2 m) JOINTED PCC PAVEMENT
- 420206-08 ENTRANCE RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO CRC MAINLINE PAVEMENT)
- 420306-06 EXIT RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO CRC MAINLINE PAVEMENT)
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
- 421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT
- 483001-04 PCC SHOULDER
- 515001-03 NAME PLATE FOR BRIDGES
- 542116-02 REINFORCED CONCRETE END SECTIONS FOR MULTIPLE (2 & 3) PIPE CULVERTS, 15" (375 mm) THRU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542306-02 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 542311-03 GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 mm) THRU 54" (1350 mm) PIPE)
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 542606-02 REINFORCED CONCRETE PIPE TEE
- 601001-04 SUB-SURFACE DRAINS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 602106-01 DRAINAGE STRUCTURES, TYPES 4, 5 & 6
- 602401-03 MANHOLE, TYPE A
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-03 FRAME AND LIDS, TYPE 1
- 604071-04 FRAME AND GRATE, TYPE 20
- 604081-04 FRAMES AND GRATES, TYPE 22
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND CUTTER
- 606101-04 TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 606306-03 CORRUGATED PC CONCRETE MEDIANS
- 609001-05 BRIDGE APPROACH SHOULDER PAVEMENT AND DRAIN
- 610001-06 SHOULDER INLET WITH CURB
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631026-05 TRAFFIC BARRIER TERMINAL, TYPE 5
- 631031-10 TRAFFIC BARRIER TERMINAL, TYPE 6
- 631036-05 TRAFFIC BARRIER TERMINAL TYPE 8
- 635001-01 DELINEATORS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 637006-02 CONCRETE BARRIER, DOUBLE FACE, 42 in. (1065 mm) HEIGHT
- 638001-02 GLARE SCREEN BLADES
- 642001-02 SHOULDER RUMBLE STRIPS
- 664001-02 CHAIN LINK FENCE
- 666001-01 RIGHT OF WAY MARKERS
- 667001-01 DRAINAGE MARKERS
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS  $\geq$  45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS  $\geq$  45 MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS  $\geq$  45 MPH
- 701400-05 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-06 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-06 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY

**IDOT HIGHWAY STANDARDS (CONT.)**

- 701416-07 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
- 701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS = 45 MPH
- 701451-01 RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701456-02 PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-03 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 720016-03 MAST ARM MOUNTED STREET NAME SIGNS
- 720021-02 SIGN PANELS EXTRUDED ALUMINUM TYPE
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-02 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 825011-02 LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
- 830021 LIGHT POLE STEEL TENON TOP
- 836001-01 LIGHT POLE FOUNDATION
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877006-04 STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- 877011-05 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-09 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

**IDOT DISTRICT 2 STANDARDS**

- 1.1 TYPICAL FURROWED ROADWAY SLOPES
- 41.1 TYPICAL PAVEMENT MARKINGS
- 44.1 PAINTING DETAILS
- 92.1 DETAILS OF PLANTING AND BRACING TREES
- 30.2 FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.
- 66.2 WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II
- 88.2 NAME PLATE FOR CULVERTS
- 37.4 DELINEATOR AND POST ORIENTATION
- 50.4 TYPICAL BENCHING ON EXISTING EMBANKMENT
- 63.4 LAND SECTION & REFERENCE MARKERS
- 87.4 TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING)
- 88.4 DRAIN FOR AGGREGATE BASES IN URBAN AREAS
- 93.4 TYPICAL MARKING FOR PAINTED ISLANDS

**TOLLWAY STANDARDS**

- B6-002 HEADWALL TYPE III
- C5-00 CONCRETE BARRIER BASE AND CONCRETE BARRIER, DOUBLE FACE, 42" AND VARIABLE HEIGHT
- E1-02 CONSTRUCTION SIGNS
- E2-02 LANE CLOSURE DETAILS
- E3-02 SHOULDER CLOSURE DETAILS
- E4-01 MAINTENANCE OF TRAFFIC REVERSE CURVE
- F1-00 OVERHEAD SIGN STRUCTURE SPAN TYPE, ALUMINUM
- F3-00 OVERHEAD SIGN STRUCTURE SPAN TYPE, "F" BARRIER FOUNDATION
- H2-00 LIGHT STANDARD POLE WIRING
- H4-00 BURIED WIRING DETAILS

Rev. 1-9-12



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PLOT DATE = 10/21/2011	DATE - 10-21-2011	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIST OF HIGHWAY STANDARDS

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	4
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES									
				1-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0040	ROCKTON • WB 1-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON • EB 1-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021	ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	113	113									
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	219	219									
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25									
20200100	EARTH EXCAVATION	CU YD	134615	134615									
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10407	10407									
20300100	CHANNEL EXCAVATION	CU YD	2252	2252									
<del>20400800</del>	<del>FURNISHED EXCAVATION</del>	<del>CU YD</del>	<del>5943</del>	<del>5943</del>									
20700110	POROUS GRANULAR EMBANKMENT	TON	183	183									
20800150	TRENCH BACKFILL	CU YD	1062	1062									
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	12823	12823									
25000210	SEEDING, CLASS 2A	ACRE	31	31									
25000310	SEEDING, CLASS 4	ACRE	0	0									
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2579	2579									
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2579	2579									
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2579	2579									
•• 25000750	MOWING	ACRE	44	44									
25100115	MULCH, METHOD 2	ACRE	29.75	29.75									
25100630	EROSION CONTROL BLANKET	SO YD	30841	30841									
25100900	TURF REINFORCEMENT MAT	SO YD	2534	2534									
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	27255	27255									
28000305	TEMPORARY DITCH CHECKS	FOOT	1967	1967									
28000400	PERIMETER EROSION BARRIER	FOOT	372.32	372.32									
28000500	INLET AND PIPE PROTECTION	EACH	72	72									
28001000	AGGREGATE (EROSION CONTROL)	TON	67	67									
28100105	STONE RIPRAP, CLASS A3	SO YD	40	40									
28100109	STONE RIPRAP, CLASS A5	SO YD	2879	1129		926	824						
28200200	FILTER FABRIC	SO YD	3072	1169		1012	891						
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	403	403									
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SO YD	175958	175958									
31100935	SUBBASE GRANULAR MATERIAL, TYPE A 18"	SO YD	13862	13862									
31100950	SUBBASE GRANULAR MATERIAL, TYPE A 21"	SO YD	2543	2543									
31100965	SUBBASE GRANULAR MATERIAL, TYPE A 24"	SO YD	11281	11281									
31200100	STABILIZED SUBBASE 4"	SO YD	11218	11218									
31200500	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SO YD	192491	192491									
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1824	1824									
35600700	HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	SO YD	613	613									
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	13	13									
40600300	AGGREGATE (PRIME COAT)	TON	6	6									
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	614	614									
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	134	134									
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	241	241									
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	130	130									
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	733	733									
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	253	253									



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 7
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

Rev. 1-5-12

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES								
				I-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0010	ROCKTON @ WB I-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON @ EB I-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021	ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021	
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1445	1445								
42000316	PORTLAND CEMENT CONCRETE PAVEMENT 8 3/4" (JOINTED)	SQ YD	224	224								
42000416	PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)	SQ YD	8267	8267								
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	1790	1790								
42000541	PORTLAND CEMENT CONCRETE PAVEMENT 12" (JOINTED)	SQ YD	153	153								
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	3065	3065								
42100355	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 3/4"	SQ YD	117258	117258								
42100615	PAVEMENT REINFORCEMENT	SQ YD	117258	117258								
42101300	PROTECTIVE COAT	SQ YD	120549	120549								
44000100	PAVEMENT REMOVAL	SQ YD	147996	147996								
44000155	HOT-MIX ASPHALT SURFACE REMOVAL	SQ YD	1609	1609								
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	591	591								
44003100	MEDIAN REMOVAL	SQ FT	2544	2544								
44004000	PAVED DITCH REMOVAL	FOOT	225	225								
44004250	PAVED SHOULDER REMOVAL	SQ YD	8940	8940								
44213204	TIE BARS 3/4"	EACH	56096	56096								
48100100	AGGREGATE SHOULDERS, TYPE A	TON	614	614								
48101200	AGGREGATE SHOULDERS, TYPE B	TON	808	808								
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	243	243								
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1197	1197								
48300100	PORTLAND CEMENT CONCRETE SHOULDERS 6"	SQ YD	1160	1160								
48300415	PORTLAND CEMENT CONCRETE SHOULDERS 9 3/4"	SQ YD	5103	5103								
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	1422	1422								
48300715	PORTLAND CEMENT CONCRETE SHOULDERS 12 3/4"	SQ YD	60889	60889								
48301000	PROTECTIVE COAT	SQ YD	64184	64184								
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	3	3		1	1	1				
50104400	CONCRETE HEADWALL REMOVAL	EACH	8	8								
50105220	PIPE CULVERT REMOVAL	FOOT	2418	2418								
50200100	STRUCTURE EXCAVATION	CU YD	360	360		189	171					
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	714.5	714.5				714.5				
50300225	CONCRETE STRUCTURES	CU YD	491	25	247	219						
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1111.8		587.3	524.5						
50300260	BRIDGE DECK GROOVING	SQ YD	2159		1145	1014						
50300280	CONCRETE ENCASMENT	CU YD	25.6		13.6	12						
50300300	PROTECTIVE COAT	SQ YD	2446		1289	1157						
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1							
50500505	STUD SHEAR CONNECTORS	EACH	12597		6669	5928						
50800105	REINFORCEMENT BARS	POUND	17960	17960								
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	344,145	11380	166795	148410			12,010		5550	
50800515	BAR SPLICERS	EACH	282		150	132						
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	6490		3450	3040						
51202305	DRIVING PILES	FOOT	6490		3450	3040						
51203200	TEST PILE METAL SHELLS	EACH	4		2	2						
51500100	NAME PLATES	EACH	3		1	1	1					



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N/A	SHEET NO. OF SHEETS	STA. TO STA.
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F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 8
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-5-12

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES								
				I-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0010	ROCKTON @ WB I-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON @ EB I-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021	ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1								
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1								
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	200	200								
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	36	36								
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1								
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	279879	279879								
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2750	2750								
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	87918	87918								
70400100	TEMPORARY CONCRETE BARRIER	FOOT	34452	34452								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	101841	101841								
70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2								
72000100	SIGN PANEL - TYPE 1	SO FT	169	169								
72000200	SIGN PANEL - TYPE 2	SO FT	461	461								
72000300	SIGN PANEL - TYPE 3	SO FT	5163	5163								
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	32	32								
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	31	31								
72400320	REMOVE SIGN PANEL - TYPE 2	SO FT	16	16								
72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	5163	5163								
72600100	MILE POST MARKER ASSEMBLY	EACH	22	22								
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	34840	34840								
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	156	156								
72900200	METAL POST - TYPE B	FOOT	34	34								
73000100	WOOD SIGN SUPPORT	FOOT	548	548								
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	10	10								
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	120	120								
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	100									100
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	87	67								20
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	22	22								
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	35	35								
73400100	CONCRETE FOUNDATIONS	CU YD	73.9	73.9								
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	125.7	59						32.5		34.2
73500100	RELOCATE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	1								
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	1								
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1	1								
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	2							2		
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	58	58								
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	52	52								
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	4	4								
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	63378	63378								
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	17451	17451								
78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	16910	16910								
78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	2658	2658								
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1699	1699								



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C29	

Rev. 1-5-12

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES								
				I-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0010	ROCKTON @ WB I-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON @ EB I-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021	ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021	
78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	323	323								
78200410	GUARDRAIL MARKERS, TYPE A	EACH	121	121								
78200530	BARRIER WALL MARKERS, TYPE C	EACH	3114	3114								
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	7								
78300100	PAVEMENT MARKING REMOVAL	SQ FT	36950	36950								
80300100	LOCATING UNDERGROUND CABLE	FOOT	4755	4755								
80500100	SERVICE INSTALLATION, TYPE A	EACH	2					1	1			
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	495	285						210		
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	188					169	19			
81028760	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	342					161	181			
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	145					42	103			
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	530					262	268			
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	374	374								
81400100	HANDHOLE	EACH	9	2				4	3			
81400300	DOUBLE HANDHOLE	EACH	2					1	1			
81603025	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1259	1259								
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2576	2576								
81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2315	2315								
81603095	UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	904	904								
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1825					810	1015			
81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	265	265								
81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	385	385								
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2	2								
82103250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	4					2	2			
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	26	26								
82104000	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT	EACH	4	4								
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1	1								
83062540	LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	2	2								
83062730	LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT	EACH	30	30								
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	195	195								
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	120	120								
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	61	61								
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20	20								
84200804	REMOVAL OF POLE FOUNDATION	EACH	20	20								
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1								
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1								
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2					1	1			
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	2					1	1			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3090					1645	1445			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1545					490	1055			
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	224					187	37			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2055					1290	765			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	5					3	2			



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 90 SECTION (X2-1) R COUNTY WINNEBAGO TOTAL SHEETS 510 SHEET NO. 12 CONTRACT NO. 64C29 [ILLINOIS] FED. AID PROJECT

Rev. 1-5-12

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES							ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021
				I-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0040	ROCKTON @ WB I-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON @ EB I-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021			
X0325734	SLOTTED DRAIN REMOVAL	FOOT	522	522								
• X0326882	VIDEO CAMERA DETECTOR SYSTEM	EACH	2					1		1		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	393		210	183						
X4211080	WIDE FLANGE BEAM TERMINAL JOINT COMPLETE (SPECIAL)	EACH	2	2								
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1579	1579								
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	68860	68860								
X4400600	END SECTIONS TO BE REMOVED	EACH	4	4								
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1689	1689								
X4402800	ISLAND PAVEMENT REMOVAL	SQ YD	4	4								
X4402805	ISLAND REMOVAL	SO FT	650	650								
X5510100	STORM SEWER REMOVAL	FOOT	480	480								
X6015000	REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	52	52								
X6050700	REMOVE INLET BOX	EACH	9	9								
X6063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	564	564								
X6064201	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.06	FOOT	48	48								
X6350120	DELINEATOR REMOVAL	EACH	216	216								
X6380205	TEMPORARY MODULAR GLARE SCREEN	FOOT	3000	3000								
X7010212	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416 (SPECIAL)	EACH	4	4								
X7040650	REMOVE TEMPORARY CONCRETE BARRIER	FOOT	563	563								
• X7240195	REMOVE EXISTING SIGN PANEL	EACH	14	11						3		
• X7800605	URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	242.7	242.7								
• X7800610	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	79093	79093								
• X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	14568	14568								
• X7800640	URETHANE PAVEMENT MARKING - LINE 8"	FOOT	16419	16419								
• X7800650	URETHANE PAVEMENT MARKING - LINE 12"	FOOT	3799	3799								
• X7800680	URETHANE PAVEMENT MARKING - LINE 24"	FOOT	216	216								
• X7830068	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	SO FT	110.5	110.5								
• X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	64969	64969								
• X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	12940	12940								
• X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	12440	12440								
• X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	3833	3833								
• X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	143	143								
• X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1	1								
X6024875	TEMPORARY INLET	EACH	3	3								
X6020190	DRAINAGE STRUCTURES TYPE 4 SPECIAL WITH TWO TYPE 20 FRAME AND GRATES	EACH	8	8								
X5000015	REMOVE AND REINSTALL PIPE CULVERTS	FOOT	30	30								
• X8410151	TEMPORARY LIGHTING SYSTEM, LOCATION 1	L SUM	1	1								
• X8410152	TEMPORARY LIGHTING SYSTEM, LOCATION 2	L SUM	1	1								
• X8410153	TEMPORARY LIGHTING SYSTEM, LOCATION 3	L SUM	1	1								
• X8410154	TEMPORARY LIGHTING SYSTEM, LOCATION 4	L SUM	1	1								
• X8410155	TEMPORARY LIGHTING SYSTEM, LOCATION 5	L SUM	1	1								



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C29	

Rev. 1-5-11

0042

- SPECIALITY ITEM
- NON-PARTICIPATING ITEM
- 100% WINNEBAGO COUNTY COST

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES								
				1-90 CONSTRUCTION 90% FEDERAL 10% STATE 0003	BRIDGE SN. 101-0193 90% FEDERAL 10% STATE 0010	BRIDGE SN. 101-0194 90% FEDERAL 10% STATE 0010	BOX CULVERT SN. 101-1095 90% FEDERAL 10% STATE 0040	ROCKTON @ WB I-90 SIGNALS 90% FEDERAL 3.34% STATE 6.66% WINNEBAGO COUNTY 0021	ROCKTON @ EB I-90 SIGNALS 90% FEDERAL 3.34% ISTHA 6.66% WINNEBAGO COUNTY 0021	ISTHA SIGNS 100% ISTHA 0021	WISDOT DMS SIGN 100% WISCONSIN DOT 0021	
J1440010	CONCRETE MEDIAN BARRIER AND BASE REMOVAL	FOOT	374	374								
J1481070	AGGREGATE SHOULDERS SPECIAL, TYPE C	TON	213	213								
J1481110	AGGREGATE SHOULDER WITH FILTER FABRIC, TYPE B	TON	313	313								
J1551010	SLOTTED DRAIN REMOVAL	FOOT	200	200								
J1606050	CONCRETE GUTTER (SPECIAL)	FOOT	15	15								
J1637013	CONCRETE BARRIER BASE, VARIABLE HEIGHT	FOOT	374	374								
J1637014	CONCRETE BARRIER, DOUBLE FACE, VARIABLE HEIGHT	FOOT	374	374								
JS280200	FILTER FABRIC INLET PROTECTION	EACH	2	2								
* JS733090	OVERHEAD SIGN STRUCTURE SPAN TYPE, ALUMINUM 90 FT.	FOOT	90								90	
* JS733105	OVERHEAD SIGN STRUCTURE SPAN TYPE, ALUMINUM 105 FT.	FOOT	105								105	
* JS733210	BRIDGE (CONCRETE) MOUNTED SIGN SUPPORT	FOOT	54								54	
* JS734A10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU YD	95.4	23.7							72.3	
* JS814001	HANDHOLE, TOLLWAY	EACH	5	1							4	
* JS816034	UNIT DUCT, WITH 2-1/2 NO. 8 AND 1/2 NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. ENG COILABLE NONMETALLIC CONDUIT	FOOT	762	762								
* JS816035	UNIT DUCT, WITH 4-1/2 NO. 2 AND 1/2 NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. ENG COILABLE NONMETALLIC CONDUIT	FOOT	387	387								
* JS819001	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2086	1020							1066	
* JS821003	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4	4								
* JS823001	SIGN STRUCTURE WIRING, OVERHEAD SIGN	EACH	2	1							1	
* JS823003	SIGN STRUCTURE WIRING, BRIDGE MOUNTED SIGN	EACH	1								1	
* JS830027	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	7	7								
* JS842080	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	3	3								
* JS842105	POLE FOUNDATION, REMOVED	EACH	2	2								
* JS846001	MAINTAIN LIGHTING SYSTEM	L SUM	1	1								
JT120330	TEMPORARY SLOTTED DRAIN, 12"	FOOT	200	200								
* JT135061	REAIMING UNITS	L SUM	1								1	
* JT720120	SIGN INSTALLATION, TYPE 3	SQ FT	1058	270							788	
* JT726020	MILEPOST MARKER ASSEMBLY, BARRIER WALL MOUNTED	EACH	2	2								
* JT726050	MILEPOST MARKER INSTALLATION	SQ FT	15	15								
* JT736001	REMOVE EXISTING OVERHEAD SIGN STRUCTURE AND FOUNDATION	EACH	2								2	
* JT780300	MULTI-POLYMER PAVEMENT MARKING - LINE 4"	FOOT	7693	7693								
* JT780310	MULTI-POLYMER PAVEMENT MARKING - LINE 6"	FOOT	7376	7376								
* JT821015	REMOVE AND REINSTALL SIGN LUMINAIRE	EACH	15								15	
* JT783005	WATERBLAST PAVEMENT MARKING REMOVAL WITH VACUUM RECOVERY	SQ FT	15370	15370								
* 20076600	TRAINERS	HOUR	2,000	2,000								

\* JS816031 UNIT DUCT WITH 2-1/2 NO. 2 AND 1/2 NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. ENG COILABLE NONMETALLIC CONDUIT

\* JS821014 SIGN LUMINAIRE, 85 WATT INDUCTION

\* JS842090 REMOVAL OF SIGN LUMINAIRE

2392

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## EARTHWORK SCHEDULE

	-20200100-	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (33%) CU YD	FILL CU YD	EXCESS EARTH EXCAVATION FROM PREVIOUS STAGE CU YD	TOTAL EARTH EXCAVATION AVAILABLE CU YD	EARTH EXCAVATION UTILIZED CU YD	EXCESS EARTH EXCAVATION CU YD	-20400800-	-20201200-	-20300100-
	EARTH EXCAVATION (CUT) CU YD							FURNISHED EXCAVATION CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CU YD	CHANNEL EXCAVATION CU YD
<b>STAGE 1</b>										
ROCKTON ROAD NE RAMP - 1A	235		21,337							
IL 75 RAMP C - 1A	81		60							
ROCKTON ROAD NE RAMP - 1B	3,468		4,221							
IL 75 RAMP C - 1B	877		42							
ROCKTON ROAD NE RAMP - 1C	16,406		0							
IL 75 RAMP C - 1C	89		100							
DRY CREEK RELOCATION - 14+90 - 19+10	0		341							2,252
WISCONSIN TEMP CROSSOVER - 985+59.89 - 1000+00	649		979							
0+00 - 15+00	6,720		263							
15+00 - 30+00	9,383		378							
30+00 - 45+00	3,185		1,867							
45+00 - 60+00	5,600		389							
60+00 - 75+00	6,381		965							
75+00 - 90+00	7,213		3,169							
90+00 - 105+00	7,417		424							
105+00 - 120+00	4,113		1,022							
120+00 - 134+40.20	5,209		1,594							
STAGE 1 SUB-TOTAL	77,027	51,608	37,150	0	51,608	37,150	14,457	0	0	2,252
<b>STAGE 2 PRE-STAGE</b>										
ROCKTON ROAD NW RAMP	273		6,014							
IL 75 RAMP B	80		16							
STAGE 2 PRE-STAGE SUB-TOTAL	353	237	6,030	14,457	14,694	6,030	8,664	0	0	0
<b>STAGE 2</b>										
ROCKTON ROAD NW RAMP - 2A	5,590		4,554							
IL 75 RAMP B - 2A	725		1,249							
ROCKTON ROAD NW RAMP - 2B	7,389		0							
IL 75 RAMP B - 2B	263		3							
IL 75 RAMP B - 2C	1,480		188							
WISCONSIN TEMP CROSSOVER - 983+22.95 - 1000+00	1,249		1,045							
WISCONSIN RESTORE TO EXISTING - 983+22.95 - 1000+00	1,224		767							
EXIT RAMP TO VISITOR CENTER - 7+99.40 - 11+00	450		63							
ENTRANCE RAMP FROM VISITOR CENTER - 37+00 - 37+31.08	50		2							
STORMWATER DETENTION - 136+00 - 141+50	631		0							
0+00 - 15+00	4,998		48							
15+00 - 30+00	5,344		557							
30+00 - 45+00	2,302		4,291							
45+00 - 60+00	3,537		1,254							
60+00 - 75+00	3,257		1,563							
75+00 - 90+00	4,785		3,520							
90+00 - 105+00	4,552		937							
105+00 - 120+00	2,498		1,541							
120+00 - 134+40.20	4,809		2,812							
STAGE 2 SUB-TOTAL	55,134	36,940	24,394	8,664	45,604	24,394	21,210	0	0	0
<b>STAGE 3</b>										
TOLLWAY TEMP CROSSOVER - 144+09.19 - 147+82.69	48		0							
0+00 - 15+00	146		11							
15+00 - 30+00	163		22							
30+00 - 45+00	56		339							
45+00 - 60+00	67		94							
60+00 - 75+00	52		54							
75+00 - 90+00	156		213							
90+00 - 105+00	144		87							
105+00 - 120+00	98		172							
120+00 - 134+40.20	329		0							
STAGE 3 SUB-TOTAL	1,258	843	993	21,210	22,053	993	21,060	0	0	0
<b>ROCKTON ROAD</b>										
5002+06.77 - 5005+11.21 (RT)	313		0							
5008+65.77 - 5010+98.64 (LT)	251		0							
SW corner WB Rockton Rd Exit	85		0							
SE corner WB Rockton Rd Exit	194		0							
ROCKTON ROAD SUB-TOTAL	843	565	0	21,060	21,625	0	21,625	0	0	0
<b>I-90</b>										
0+00 - 2+00									1,646	
28+00 - 34+50									6,115	
83+50 - 86+00									2,646	
I-90 SUB-TOTAL	0	0	0	21,625	21,625	0	21,625	0	10,407	0
<b>TOTAL</b>	134,615							0	10,407	2,252



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N/A    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	35
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-9-12

# EROSION CONTROL SCHEDULE

				25000750	25100630	25100900	28000250	28000395	28000400	28000500	28001000	28100105	28100109	28200200	5280200
				MOWING	EROSION CONTROL BLANKET	TURF REINFORCEMENT MAT	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	AGGREGATE (EROSION CONTROL)	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A5	FILTER FABRIC	FILTER FABRIC INLET PROTECTION
STATION	OFF	STATION	OFF	ACRE	SO YD	SO YD	POUND	FOOT	FOOT	EACH	TON	SO YD	SO YD	SO YD	EACH
0+00	LT	15+00	LT	1.08											
0+00	RT	15+00	RT	0.38											
0+00	RT	15+80	RT						1580						
0+00	LT/RT	142+66	LT/RT				25600								
0+10	-									1					
0+93	LT	3+09	LT						216						
2+50	-									1					
3+03	LT	14+16	LT		1091										
3+43	LT	6+00	LT						262						
4+72	LT							14							
4+85	LT	5+00	LT			44				1					
5+43	RT	9+67	RT						425						
7+25	LT	7+40	LT			47				1					
8+00	LT							14							
9+65	LT	9+80	LT			37				1					
9+67	RT	14+30	RT		385										
10+00	LT	13+99	LT						399						
10+00	RT	14+01	RT						401						
11+00	LT							14							
11+00	RT							21							
12+10	-									1					
14+11	RT							21							
14+20	LT	15+00	LT						81						
14+20	LT							14							
14+22	RT	15+00	RT						81						
14+50	-									1					
14+76	LT									1					
15+00	LT	15+70	LT						70						
15+00	RT	15+80	RT						80						
15+00	LT	30+00	LT	2.17											
15+00	RT	30+00	RT	1.64											
15+26	RT									1					
16+80	RT	72+00	RT						5520						
16+81	LT	22+05	LT						527						
16+83	RT	21+00	RT						420						
17+00	-									1					
17+18	LT	21+98	LT		423										
17+25	LT							21							
17+50	LT							21							
17+75	LT							21							
18+00	LT							21							
18+50	LT							21							
18+90	RT	24+51	RT		505										
19+00	LT							21							
19+45	LT	19+60	LT			50				1					
20+75	RT							14							
21+00	LT							14							
21+10	LT	29+74	LT		725										
21+50	LT							21							
22+00	LT							21		1					
22+00	RT							21							
22+07	LT							14							
22+17	LT	22+42	LT						37						
22+25	LT							21							
22+27	LT									1					
22+40	RT	24+06	RT						181						
22+50	LT							21							
22+60	LT	22+90	LT						36						
22+75	LT							21							
22+89	LT	23+04	LT			60									
23+10	LT	29+31	LT						750						
23+10	LT							21							
23+17	RT	26+84	RT						389						
23+25	RT							14							
23+41	RT									1					
23+63	RT							14							
23+72	RT	23+87	RT			37									
23+90	LT							21							
24+00	RT							14							
24+45	LT	24+60	LT			64				1					
25+00	LT							21							
25+60	RT	49+04	RT		2092										
26+00	LT							14							
26+46	LT									1					
26+95	LT	27+10	LT			53				1					
27+80	RT							14							
29+00	LT							21							
29+50	-									1					
29+59	LT									1					
29+77	RT							14							
30+00	LT	45+00	LT	1.93											
30+00	RT	45+00	RT	1.97											
30+59	LT	30+63	LT						16						
30+63	LT	72+49	LT		3528										
31+19	-									1					
31+78	RT							14							
32+89	LT	33+04	LT			37				1					
34+00	LT							14							
34+00	RT							14							

Rev. 1-9-12

	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = #FILE#	DRAWN - KRL	REVISED -		90	(X2-1) R	WINNEBAGO	510	38			
	PLOT SCALE = 50.0000' / IN.	CHECKED - PDS	REVISED -	SCALE: N/A    SHEET NO. OF SHEETS    STA. TO STA.			CONTRACT NO. 64C29					
	PLOT DATE = 12/12/2011	DATE - 10-21-2011	REVISED -	[ILLINOIS] FED. AID PROJECT								

## EROSION CONTROL SCHEDULE - CONTINUED

				-25000750-	-25100630-	-25100900-	-28000250-	-28000305-	-28000400-	-28000500-	-28001000-	-28100105-	-28100109-	-28200200-	-J5200200-
				MOWING	EROSION	TURF	TEMPORARY	TEMPORARY	PERIMETER	INLET AND PIPE	AGGREGATE	STONE	STONE	FILTER	FILTER
STATION	OFF	STATION	OFF	ACRE	CONTROL	REINFORCEMENT	EROSION	DITCH CHECKS	EROSION	PROTECTION	(EROSION	RIPRAP,	RIPRAP,	FABRIC	FABRIC
					BLANKET	MAT	CONTROL		BARRIER		CONTROL)	CLASS A3	CLASS A5	SO YD	INLET
					SO YD	SO YD	SEEDING	FOOT	FOOT	EACH	TON	SO YD	SO YD	SO YD	PROTECTION
							POUND								EACH
34+63	LT	34+78	LT			37									
35+32	LT	45+00	LT						964						
36+00	RT	45+00	RT						904						
36+00	RT							14							
36+37	LT	36+52	LT			37				1					
37+00	LT							14							
38+00	RT							14							
38+11	LT	38+26	LT			37				1					
39+80	LT							21							
39+85	LT	40+00	LT			37				1					
40+00	RT							14							
41+59	RT							14							
41+95	LT	42+10	LT			37				1					
43+00	LT							21							
44+45	LT	44+60	LT			37				1					
44+59	RT							21							
45+00	LT	46+00	LT						100						
45+00	RT	48+97	RT						398						
45+00	LT	60+00	LT	1.99											
45+00	RT	60+00	RT	3.13											
46+00	LT							14							
46+95	LT	47+10	LT			37				1					
47+58	RT							21							
48+75	RT	51+04	RT						465						
49+00	LT							14							
49+00	RT							21							
49+05	RT	50+70	RT						175						
49+45	LT	49+60	LT			37				1					
50+78	RT									1					
50+82	RT	63+40	RT		1118										
50+85	RT	51+29	RT						49						
51+02	RT	51+37	RT			85									
51+32	RT	51+56	RT						87						
51+81	LT							14							
51+95	LT	52+10	LT			37				1					
52+13	RT	61+72	RT				1655		1529						
52+99	RT	59+48	RT												
54+32	LT							14							
54+45	LT	54+60	LT			40				1					
55+00	RT							14							
56+00	LT	60+00	LT						400						
56+95	LT	57+10	LT			45				1					
58+00	LT							14							
59+00	RT	60+00	RT						100						
59+45	LT	59+60	LT			37				1					
59+66	RT	61+01	RT						501						
60+00	LT	66+00	LT						601						
60+00	LT	75+00	LT	2.41											
60+00	RT	75+00	RT	1.83											
61+00	LT							14							
61+00	RT							14							
61+95	LT	62+10	LT			49				1					
62+79	RT									1					
63+00	RT							21							
63+50	RT							21							
63+64	RT	65+10	RT						148						
64+00	LT							14							
64+45	LT	64+60	LT			45				1					
65+16	RT	67+97	RT						333						
65+80	-									1					
66+44	-									1					
66+91	LT							14							
67+05	LT	67+15	LT			37				1					
67+98	RT	71+50	RT		289										
68+95	LT	69+10	LT			37				1					
69+15	RT	71+42	RT						228						
70+00	LT							14							
70+95	LT	71+10	LT			37				1					
71+00	LT	72+60	LT						262						
71+43	RT							14							
71+51	RT	73+44	RT						230						
71+93.00	LT											20		20	
72+17	LT	72+90	LT						306						
72+29.00	RT											20		20	
72+32	LT	73+14	LT						312						
72+50	LT							14							
72+69	RT	73+11	RT		97										
72+73	LT	75+00	LT						419						
72+73	LT	88+85	LT		1803										
72+89	RT	73+04	RT						52						
72+91	LT	73+44	RT						462						
73+16	LT	73+67	RT						460						
73+44	LT	74+26	LT						102						
73+67	RT	75+00	RT						138						
73+67	LT							14							
73+81	RT	89+11	RT		1547										
73+92	RT	74+12	RT						63						
74+18	RT							14							
74+30	RT	89+60	RT						1530						



USER NAME = .USERNAME.  
 FILE NAME = #FILE#  
 PLOT SCALE = 50.0000' / IN.  
 PLOT DATE = 12/12/2011

DESIGNED -  
 DRAWN - KRL  
 CHECKED - PDS  
 DATE - 10-21-2011

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

#### SCHEDULE OF QUANTITIES

SCALE: N/A    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	39
CONTRACT NO. 64C29				
[ILLINOIS] FED. AID PROJECT				

Rev. 1-9-12

## EROSION CONTROL SCHEDULE - CONTINUED

				25000750	25100630	25100900	28000250	28000305	28000400	28000500	28001000	28100105	28100109	28200200	25280200
				MOWING	EROSION CONTROL BLANKET	TURF REINFORCEMENT MAT	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	AGGREGATE (EROSION CONTROL)	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A5	FILTER FABRIC	FILTER FABRIC INLET PROTECTION
STATION	OFF	STATION	OFF	ACRE	SO YD	SO YD	POUND	FOOT	FOOT	EACH	TON	SO YD	SO YD	SO YD	EACH
74+40	LT	74+55	LT			58									
75+00	RT	79+15	RT						417						
75+00	LT	90+00	LT	2.22											
75+00	RT	90+00	RT	2.22											
75+00	LT							14							
75+14	LT							14							
75+14	RT							14							
75+29	LT							14							
75+39	RT							14							
75+43	LT							14							
75+57	LT							14							
75+64	RT							14							
75+71	LT							14							
75+86	LT							14							
75+89	RT							14							
76+00	LT							14							
76+14	RT							14							
76+75	RT							14							
76+90	LT	77+05	LT			60				1					
77+56	RT							14							
77+70	LT							14							
78+90	RT							14							
80+00	RT							14							
80+50	LT	85+50	LT						500						
81+00	RT	89+02	RT						903						
81+00	LT							14							
81+00	RT							14							
84+00	LT							14							
84+90	LT	85+05	LT			50				1					
87+00	-									1					
88+00	RT							14							
88+67	RT							14							
88+77	RT/LT	88+99	RT/LT			56				2					
89+06	RT							14							
89+90	RT	129+00	RT						3910						
90+00	LT	105+00	LT	2.19											
90+00	RT	105+00	RT	2.19											
90+10	RT	95+42	RT						552						
90+35	-									1					
90+86	LT	96+55	LT		505										
91+00	LT							14							
91+50	LT							14							
91+86	-									1					
92+00	LT							14							
93+11	LT	93+26	LT			47				1					
95+20	LT	95+35	LT			43				1					
95+36	RT	95+73	RT			81									
95+69	RT	97+00	RT						145						
95+70	RT	141+22	RT		4131										
96+00	LT							14							
96+00	RT							14							
96+58	LT									1					
96+75	LT	98+82	LT						220						
96+80	RT/LT	96+95	RT/LT			37		14		1					
97+80	RT							14							
98+70	RT							14							
98+76	LT	98+91	LT			53				1					
98+96	LT	134+80	LT		3067										
99+00	LT	105+00	LT						600						
99+00	LT							14							
99+60	RT							14							
101+13	LT	101+28	LT			50				1					
102+30	LT							14							
102+50	RT							14							
103+50	LT	103+65	LT			50				1					
105+00	LT	120+00	LT						1502						
105+00	LT	120+00	LT	2.2											
105+00	RT	120+00	RT	2.21											
105+60	LT							14							
105+90	LT	106+05	LT			50				1					
107+00	RT							14							
108+24	LT	108+39	LT			50				1					
108+80	LT							14							
110+61	LT	110+76	LT			50				1					
111+00	RT							14							
112+00	LT							14							
112+98	LT	113+13	LT			50				1					
114+00	RT							14							
115+00	RT	120+00	RT						500						
115+00	LT							14							
115+35	LT	115+50	LT			50				1					
116+40	LT							14							
120+00	LT	124+47	LT						447						
120+00	RT	135+00	RT	2.12					1513						
120+00	LT	135+00	LT	2.53											
121+00	RT							14							
124+50	LT							14							
125+11	RT							14							
125+40	-									1					



USER NAME = \_USERNAME\_  
 FILE NAME = #FILE#  
 PLOT SCALE = 50.0000' / IN.  
 PLOT DATE = 12/12/2011

DESIGNED -  
 DRAWN - KRL  
 CHECKED - PDS  
 DATE - 10-21-2011

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**  
 SCALE: N/A    SHEET NO.    OF    SHEETS    STA.    TO STA.

Rev. 1-9-12  
 F.A. RTE. 90    SECTION (X2-1) R    COUNTY WINNEBAGO    TOTAL SHEETS 510    SHEET NO. 40  
 CONTRACT NO. 64C29  
 [ILLINOIS] FED. AID PROJECT

## EROSION CONTROL SCHEDULE - CONTINUED

				25000750	25100630	25100900	28000250	28000305	28000400	28000500	28001000	28100105	28100109	28200200	25280200	
				MOWING	EROSION	TURF	TEMPORARY	TEMPORARY	PERIMETER	INLET AND PIPE	AGGREGATE	STONE	STONE	FILTER	FILTER	
				ACRE	CONTROL	REINFORCEMENT	EROSION	DITCH CHECKS	EROSION	PROTECTION	(EROSION	RIPRAP,	RIPRAP,	FABRIC	FABRIC	
STATION	OFF	STATION	OFF	SO YD	BLANKET	MAT	CONTROL	FOOT	BARRIER	EACH	CONTROL)	CLASS A3	CLASS A5	SO YD	INLET	
							SEEDING				TON	SO YD	SO YD	SO YD	PROTECTION	
							POUND		FOOT						EACH	
127+77	-															
127+80	RT							14								
129+50	LT							14								
130+14	-															
130+80	RT							14								
132+46	RT	132+61	RT			38										
133+46	RT							14								
134+39	LT							14								
134+87	LT															
135+00	RT	136+32	RT						164							
135+00	LT	307+00	LT	0.31												
135+25	RT	136+63	RT						148							
135+46	LT	137+37	LT						198							
136+00	RT							14								
136+38	RT	141+50	RT		1857											
136+44	LT	136+80	LT			55										
136+44	RT															
136+68	RT							21								
136+77	LT															
136+78	RT	142+66	RT						684							
136+87	RT	137+17	RT			50										
136+96	LT							14								
137+00	RT							14								
137+03	LT	142+46	LT						603							
137+21	LT	137+44	LT			37										
137+43	RT	137+71	RT								56					
137+45	LT							21								
137+53	LT	142+50	LT						637							
137+77	RT							14								
138+52	RT							14								
139+40	RT							14								
139+60	RT							28								
139+92	LT	140+05	LT								11					
140+39	RT	142+30	RT						203							
140+43	RT							14								
141+28	RT							28								
143+01	LT								233							
143+22	RT								316							
145+93																1
148+93																1
307+00	LT	ROCKTON RD	LT	3.15												
411+00	RT	ROCKTON RD	RT	3.89												
983+05	LT/RT								48							
983+06	LT/RT	988+85	LT/RT		2807											
989+10	LT/RT	999+81	LT/RT		4871											
980+37.00	LT															
985+50.00	-															
996+75.00	-							14								
996+80.00	-															
DRY CREEK																
15+00		15+74.10	RT			116.8										
15+00.00		16+00	RT										162.3		162.3	
17+33.9		18+64.10	RT										403.5		403.5	
18+64.10		19+00	RT			49.6										
15+00		16+00	LT										317.0		317.0	
17+33.89		18+60.12	LT										245.4		245.4	
17+75		18+64.10	LT			133.5										
18+64.10		19+00	LT			44.6										
TOTAL				43.76	30841	2533.5	27255	1967	37232	72	67	40	1128.2	1168.2	2	



USER NAME = USERNAME  
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 DATE - 10-21-2011

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	41
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-9-12

# LANDSCAPING SCHEDULE

				-21101615-	-25000210-	-25000310-	-X0322352	-25000400-	-25000500-	-25000600-	-25100115-	-20100110-	-20100210	-20100500-
				TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 2A	SEEDING, CLASS 4	SEEDING MOBILIZATION EACH	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH, METHOD 2 ACRE	TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT	TREE REMOVAL, ACRES ACRE
STATION	OFF	STATION	OFF	SO YD 2073	ACRE	ACRE								
0+00		134+20.40												
0+93	LT	15+50	LT		0.63			56.9	56.9	56.9	0.62			
3+03	LT	14+16	LT		0.23			20.3	20.3	20.3				
3+37	LT	6+31	LT			0.10					0.10			
5+43	RT	15+83	RT		0.31			28	28	28	0.31			
6+29	LT	10+97	LT			0.12					0.12			
9+67	RT	14+30	RT		0.08			7.2	7.2	7.2				
16+80	RT	26+17	RT		0.46			41.6	41.6	41.6	0.46			
16+80	LT	31+06	LT		1.51			135.7	135.7	135.7	1.51			
17+18	LT	21+98	LT		0.09	0.04		7.9	7.9	7.9	0.04			
18+90	RT	24+51	RT		0.10			9.4	9.4	9.4				
20+25	RT	51+34	RT		2.18			196.5	196.5	196.5	2.18			
21+00	RT	23+02	RT			0.02					0.02			
21+01	LT	22+85	LT			0.25					0.25			
21+10	LT	29+74	LT		0.15			13.5	13.5	13.5				
25+60	RT	49+04	RT		0.43			38.9	38.9	38.9				
27+31	RT	37+21	RT			0.31					0.31			
30+59	LT	72+28	LT		2.56			230.6	230.6	230.6	2.56			
30+63	LT	72+49	LT		0.73			65.6	65.6	65.6				
31+31	LT	37+66	LT			0.07					0.07			
41+00	RT	45+58	RT			0.08					0.08			
43+07	LT	72+24	LT			1.11					1.11			
48+61	RT	64+00	RT		1.35			121.3	121.3	121.3	1.35			
50+82	RT	63+40	RT		0.23			20.8	20.8	20.8				
53+13	RT	61+72	RT			2.07					2.07			
65+16	RT	72+75	RT		0.45			40.3	40.3	40.3	0.45			
67+98	RT	71+50	RT		0.06			5.4	5.4	5.4				
68+43	RT	71+33	RT			0.04					0.04			
72+69	RT	73+11	RT		0.02			1.8	1.8	1.8				
72+73	LT	88+85	LT		0.37			33.5	33.5	33.5				
73+78	LT	89+62	LT		1.12			101	101	101	1.12			
73+70	LT	88+94	LT			0.53					0.53			
73+81	RT	89+11	RT		0.32			29.8	29.8	29.8				
74+17	RT	89+65	RT		1.05			94.8	94.8	94.8	1.05			
74+28	RT	83+00	RT			0.09					0.09			
89+93	RT	95+63	RT		0.29			25.7	25.7	25.7	0.29			
89+99	LT	96+49	LT		0.36			32.6	32.6	32.6	0.36			
89+99	LT	96+61	LT			0.26					0.26			
90+86	LT	96+55	LT		0.10			9.4	9.4	9.4				
95+70	RT	141+22	RT		0.85			76.8	76.8	76.8				
95+70	RT	142+37	RT		3.47			312.7	312.7	312.7	3.47			
96+44	RT	101+00	RT			0.07					0.07			
96+55	LT	142+48	LT		3.29			296	296	296	3.29			
98+96	LT	117+00	LT			0.41					0.41			
98+96	LT	134+80	LT		0.63			57	57	57				
103+76	RT	114+00	RT			0.08					0.08			
130+63	RT	142+66	RT		2.69			242.3	242.3	242.3	2.69			
133+92	LT	142+51	LT		1.98			178.4	178.4	178.4	1.98			
134+59	RT	141+20	RT			0.15					0.15			
136+38	RT	141+50	RT		0.38			34.5	34.5	34.5				
143+00	LT	143+75	LT		0.06			5	5	5	0.06			
143+12	RT	143+38	RT		0.08			7.2	7.2	7.2	0.08			



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 FILE NAME = #FILE#  
 PLOT SCALE = 50.0000' / IN.  
 PLOT DATE = 12/12/2011

DESIGNED -  
 DRAWN - KRL  
 CHECKED - PDS  
 DATE - 10-21-2011

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 42	CONTRACT NO. 64C29
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*Rev. 1-9-12*

ILLINOIS FED. AID PROJECT

LANDSCAPING SCHEDULE - CONTINUED

				2101615	25000210	25000310	X0322352	25000400	25000500	25000600	25100115	20100110	20100210	20100500
				TOPSOIL FURNISH AND PLACE, 4" SO YD	SEEDING, CLASS 2A ACRE	SEEDING, CLASS 4 ACRE	SEEDING MOBILIZATION EACH	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	MULCH, METHOD 2 ACRE	TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT	TREE REMOVAL, ACRES
STATION	OFF	STATION	OFF											
DRY CREEK														
15+00		15+74.10	RT			0.02								
18+64.10		19+00	RT			0.01								
17+70		18+60.12	LT			0.03								
18+64.10		19+00	LT			0.01								
TOLLWAY DETENTION														
136+00	RT	141+50	RT	882										
RAMPS														
300+26.53	65' RT											7		
300+27.90	60' RT											8		
300+40.86	45' RT											8		
300+40.82	48' RT											8		
300+41.44	44' RT											8		
300+41.86	62' RT											8		
300+58.21	54' RT											10		
412+86.95	21' RT											8		
412+92.94	17' RT											8		
413+24.74	9' RT											8		
416+98.50	30' RT											13		
417+00.85	35' RT											6		
417+16.64	44' RT											7		
419+70.72	65' LT											6		
300+61.25	38' RT												23	
300+63.54	42' RT												18	
300+65.24	39' RT												18	
300+67.40	45' RT												17	
412+43.75	5' RT												24	
412+59.05	21' RT												27	
412+85.57	25' RT												21	
413+85.56	8' RT												25	
414+35.03	15' RT												24	
415+26.24	16' RT												22	
304+03.79	RT	307+81.36					13							0.2
983+06	LT/RT	142+66	LT/RT											
983+06	LT/RT	988+85	LT/RT		0.58									
989+10	LT/RT	999+81	LT/RT		1.01									
IL 75 Ramp C				741										
IL 75 Ramp B				708										
I-90 EXIT RAMP TO VISITOR CENTER														
7+99.40		11+00.00		387										
I-90 ENTRANCE RAMP FROM VISITOR CENTER														
37+00.00		37+31.08		45										
ROCKTON ROAD														
Rockton Rd, NE Ramp				3432										
Rockton Rd, NW Ramp				3693										
5002+06.77	RT	5005+11.21	RT	347										
5008+65.27	LT	5009+66.57	LT	246										
SW corner WB Rockton Rd Exit				92										
SE corner WB Rockton Rd Exit				177										
TOTAL				12823	30.2	5.87	13	2578.4	2578.4	2578.4	29.64	113	219	0.2



USER NAME = USERNAME  
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REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	43
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-9-12

## PAVEMENT MARKINGS SCHEDULE

				X7800605	X7800610	X7800630	X7800640	X7800650	X7800660	78100100	X7830060	X7830070	X7830074	X7830076	X7830078	X7830090	JT780300	JT780310	
				URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS SO FT	URETHANE PAVEMENT MARKING - LINE 4"	URETHANE PAVEMENT MARKING - LINE 6"	URETHANE PAVEMENT MARKING - LINE 8"	URETHANE PAVEMENT MARKING - LINE 12"	URETHANE PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER EACH	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS SO FT	GROOVING FOR RECESSED PAVEMENT MARKING 5" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 7" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 9" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 13" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 25" FOOT	MULTI-POLYMER PAVEMENT MARKING, 4" FOOT	MULTI-POLYMER PAVEMENT MARKING, 6" FOOT	
STATION	OFF	STATION	OFF																
981+13.84		1000+00.00			1886	480													
981+13.84		1000+00.00			1886														
981+13.84		991+11.70				250													
983+60.50		992+93.50				240													
983+60.50		996+38.70			1278														
983+60.50		1000+00.00			1640	410													
991+11.70	RT	1000+00.00	RT				888												
996+38.70		1000+00.00					1084												
992+93.50	LT	996+39.00	LT				346												
0+00.00	LT	0+92.78	LT				186	80						186	80				
0+00.00	RT	5+43.08	RT				1086							1086					
0+00.00	LT	10+00.00	LT			250		248					250						
0+00.00	RT	10+00.00	RT			250		248					250						
10+00.00	LT	134+20.40	LT		12420							12420							
10+00.00	RT	134+20.40	RT		12420							12420							
0+00.00		134+20.40							1342										
0+92.78	LT	31+06.79	LT		3014							3014							
1+00.00	RT	5+43.08	RT					462											
2+07.51	RT	7+99.40	RT				592							592					
5+43.08	RT	26+16.98	RT		2074							2074							
10+00.00	LT	134+20.40	LT			6220							6220						
10+00.00	RT	134+20.40	RT			6220							6220						
26+16.98	RT	31+01.67	RT				485	200						485	200				
26+16.98	RT	48+60.92	RT				2244							2244					
26+31.15	RT	29+69.28	RT							38									
30+54.52	LT	36+29.48	LT							60									
33+36.63	RT	42+68.83	RT		932									932					
31+06.79	LT	35+75.77	LT					572											
31+35.00	LT	35+75.79	LT				441							441					
31+06.79	LT	51+36.05	LT				2029							2029					
36+29.48	LT	121+64.86	LT		8534							8534							
42+68.82	RT	51+83.45	RT							51									
43+55.38	RT	48+60.92	RT				506	552						506	552				
48+60.92	RT	65+28.01	RT		1667									1667					
51+36.05	LT	53+86.05	LT				64							64					
65+12.03	RT	70+75.42	RT							62									
65+43.40	RT	72+08.40	RT				665							665					
65+28.01	RT	72+08.40	RT				680	310						680	310				
72+08.40	RT	79+25.41	RT				180							180					
79+25.41	RT	124+02.85	RT		4477									4477					
121+64.86	LT	128+82.01	LT				180							180					
121+64.90	LT	133+79.23	LT							90									
124+02.85	RT	126+71.73	RT				68							68					
124+02.85	RT	130+62.82	RT							56									
126+71.73	RT	130+62.82	RT				782	272						782	272				
128+82.01	LT	133+91.89	LT				1020	210						1020	210				
130+62.82	RT	134+20.40	RT																
133+79.27	LT	134+20.40	LT																
<b>RAMPS</b>																			
2+07.51	RT	7+99.40	RT		592									592					
37+31.08	LT	51+11.60	LT		1381									1381					
300+12.76	RT	309+71.28	RT		992									992					
300+33.67	LT	309+71.28	LT		951									951					
309+71.20	LT	314+66.30	LT				496								496				
309+71.28	LT	321+83.33	LT											1212					
400+18.71	LT	406+78.62	LT											660					
402+87.20	LT	406+79.30	LT				392								392				
406+78.62	LT	420+12.16	LT											1357					
406+78.62	RT	420+51.91	RT											1471					
416+39.64		417.91.92																	
417+91.90	12.3' LT	419+68.50	12.5' LT				177												
418+15.65	LT													16.8					
418+15.70	RT													16.8					
418+75.72	LT													16.8					
418+75.73	RT													16.8					
419+35.72	LT													16.8					
419+35.73	RT													16.8					
419+68.45	RT	420+48.95	RT												109				
419+68.45	LT	420+19.48	LT												66				
420+33.27															113				
419+93.69	LT																		
419+97.20																			
20002+79.07	LT	20010+54.20													776				
20002+79.07	RT	20010+54.20													776				
20010+37.14	RT	20015+25.61	RT																
20010+54.20	RT	20017+61.51	RT												707				
30000+00.00	LT	30004+90.63	LT												491				
30004+90.63	RT	30005+70.00	RT												80				
30004+90.63	LT	30008+27.74	LT												338				



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 PLOT DATE = 12/23/2011

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 DRAWN - KRL  
 CHECKED - PDS  
 DATE - 10-21-2011

REVISED -  
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 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N/A    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	56
CONTRACT NO. 64C29				
[ILLINOIS] FED. AID PROJECT				

Rev. 1-9-12



PAVEMENT MARKINGS SCHEDULE - CONTINUED

				-X7800605-	-X7800610-	-X7800630-	-X7800640-	-X7800650-	-X7800680-	78100100-	-X7830068-	-X7830070-	-X7830074-	-X7830076-	-X7830078-	-X7830090-	-J7780300-	-J7780310-		
				URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	URETHANE PAVEMENT MARKING - LINE 4"	URETHANE PAVEMENT MARKING - LINE 6"	URETHANE PAVEMENT MARKING - LINE 8"	URETHANE PAVEMENT MARKING - LINE 12"	URETHANE PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	MULTI-POLYMER PAVEMENT MARKING, 4"	MULTI-POLYMER PAVEMENT MARKING, 6"		
STATION	OFF	STATION	OFF	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT		
ROCKTON ROAD																				
SW Corner WB Rockton Rd Exit Ramp					90							90								
4997+85.00		5001+88.50			807															
5000+79.80	LT	5001+80.50	LT					264							264					
5001+07.30	19' RT	5001+59.70	56.1' RT				64							64						
5001+07.30	RT	5001+77.30	RT					285							285					
5001+07.30	19' RT	5001+77.90	18.6' RT				71							71						
5001+32.60											18						18			
5001+49.50											12									
5001+59.70	56.1' RT	5001+77.90	18.6' RT				42							42						
5002+20.20	LT	5010+91.90	LT		872															
5002+21.20	RT	5011+08.00	RT		887															
5002+42.40	7.2' LT	5005+21.30	7.2' LT				279													
5002+42.40											12									
5002+57.40		5005+21.30		62.4																
5002+57.40	RT	5010+52.90	LT		1591															
5002+57.40											12									
5006+86.30		5010+52.90		78																
5006+86.30	2.8' RT	5010+68.00	2.8' RT				382													
5010+52.90											12									
5010+68.00											12									
5011+28.00		5015+20.00			784															
5011+32.10	12' RT	5011+50.90	47.9' RT				41							41						
5011+32.10	12' RT	5011+96.00	12' RT				64							64						
5011+32.10	RT	5011+96.00	RT					130							130					
5011+44.40											18							18		
5011+50.90	47.9' RT	5011+96.00	12' RT				58							58						
5011+63.00											18							18		
5011+77.20											31							18		
Exit Ramp to Visitor Center																				
7+99.40		11+00.00			610								610							
Entrance Ramp from Visitor Center																				
37+00		37+31.08			63									63						
Visitor Center Overlay																				
11+00		37+00		8.7	8978	248				35	9.7	6485				35				
Tollway Permanent Markings																				
134+20.40		153+44.00															7693	3847		
153+44.00		213+00.00																3529		
TOTAL				242.7	79093	14568	16419	3833	216	1699	110.5	64969	12940	13440	3337	143	7693	7376		



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 PLOT DATE = 12/23/2011

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

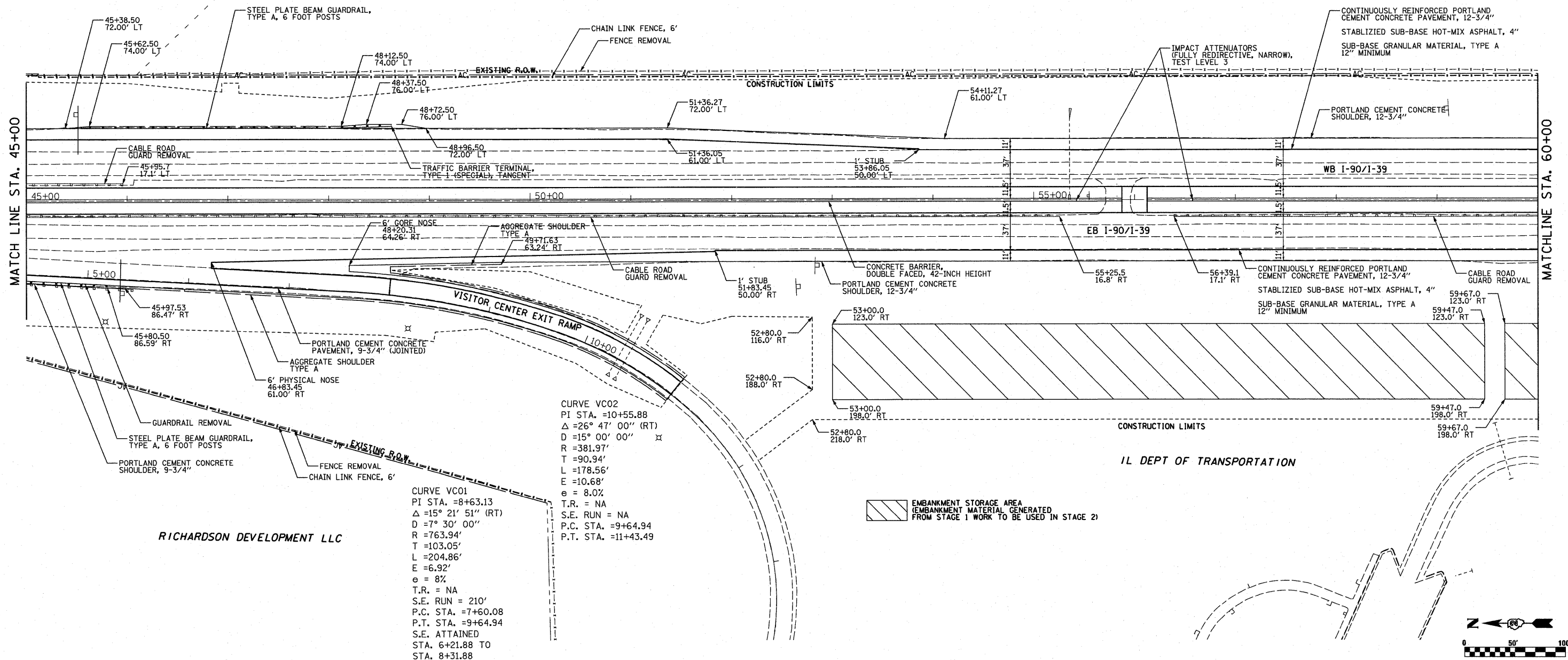
SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	57
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-9-12

DYN RESIDENTIAL HOLDINGS LLC

DEE DEE PLANKEY



RICHARDSON DEVELOPMENT LLC

CURVE VC02  
 PI STA. =10+55.88  
 $\Delta = 26^\circ 47' 00''$  (RT)  
 $D = 15^\circ 00' 00''$   
 $R = 381.97'$   
 $T = 90.94'$   
 $L = 178.56'$   
 $E = 10.68'$   
 $e = 8.0\%$   
 $T.R. = NA$   
 $S.E. RUN = NA$   
 $P.C. STA. = 9+64.94$   
 $P.T. STA. = 11+43.49$

CURVE VC01  
 PI STA. =8+63.13  
 $\Delta = 15^\circ 21' 51''$  (RT)  
 $D = 7^\circ 30' 00''$   
 $R = 763.94'$   
 $T = 103.05'$   
 $L = 204.86'$   
 $E = 6.92'$   
 $e = 8\%$   
 $T.R. = NA$   
 $S.E. RUN = 210'$   
 $P.C. STA. = 7+60.08$   
 $P.T. STA. = 9+64.94$   
 $S.E. ATTAINED$   
 STA. 6+21.88 TO  
 STA. 8+31.88

**McClure LOCHNER**  
 Engineering Associates, Inc.  
**RWA**  
 Regional Water & Associates, Inc.

USER NAME = .USERNAME.
FILE NAME = #FILE#
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 12/9/2011

DESIGNED -	REVISED -
DRAWN - BSL	REVISED -
CHECKED - PDS	REVISED -
DATE - 10-21-2011	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS - I-90**

SCALE: N/A	SHEET NO. OF SHEETS	STA. 45+00 TO STA. 60+00
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F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 82
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

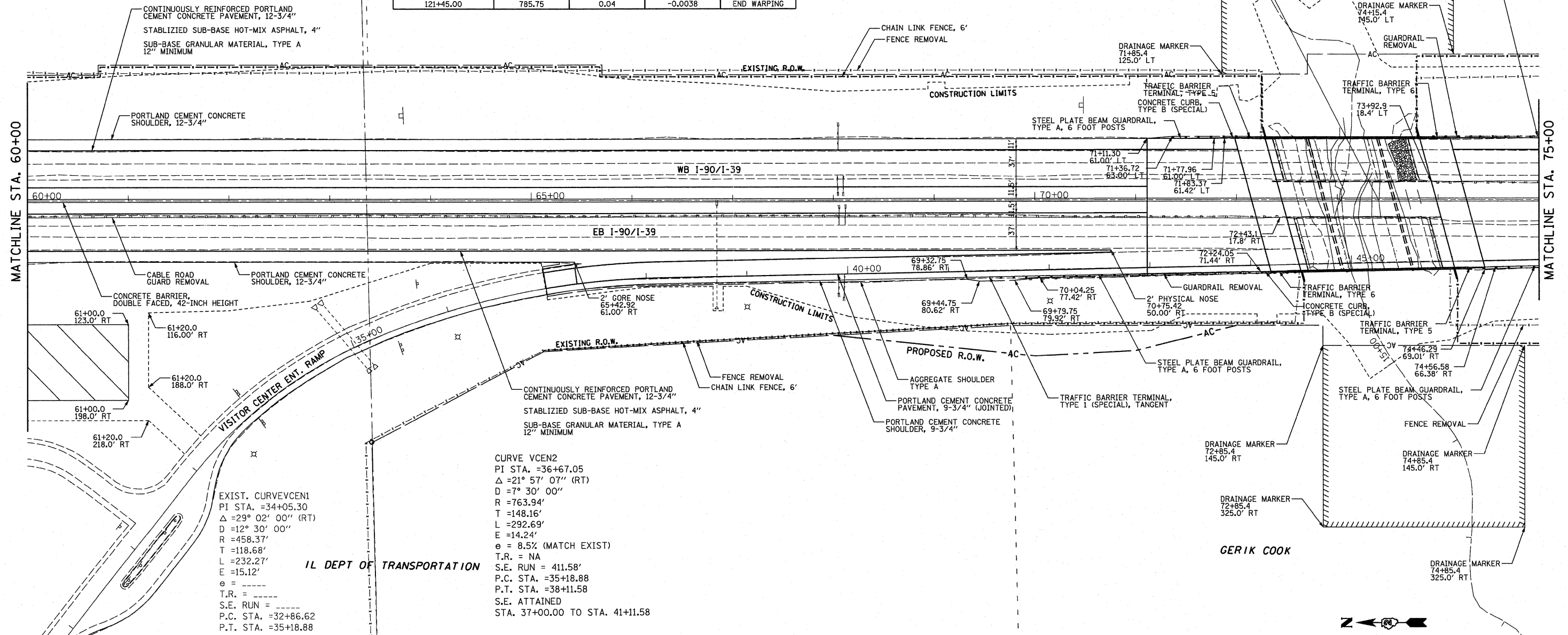
Rev. 1-9-12  
 1" = 50'

I-90 INSIDE SHOULDER WARPING				
STATION	EOS ELEVATION AT BARRIER	SHOULDER CROSS SLOPE	LONGITUDINAL EOS SLOPE	DESCRIPTION
LOCATION 1 - EB & WB SHOULDERS				
65+88.00	774.56	0.04	-0.0035	BEGIN WARPING
66+00.00	774.51	0.0417		
66+44.25	774.36	0.05		LOW POINT
67+00.00	774.55	0.0409		
67+10.00	774.59	0.04	0.0035	END WARPING
LOCATION 2 - EB & WB SHOULDERS				
80+00.00	780.96	0.04	0.0046	BEGIN WARPING
80+73.05	781.29	0.02		HIGH POINT
81+00.00	781.17	0.0296		
81+55.00	780.93	0.04	-0.0044	END WARPING
LOCATION 3 - EB & WB SHOULDERS				
91+90.00	777.62	0.04	-0.0035	BEGIN WARPING
92+00.00	777.58	0.0409		
92+50.95	777.41	0.05		LOW POINT
93+00.00	777.58	0.04		
93+10.00	777.61	0.04	0.0035	END WARPING
LOCATION 4 - WB SHOULDERS				
119+35.00	785.75	0.04	0.0037	BEGIN WARPING
120+00.00	785.99	0.0313		
120+42.03	786.15	0.02		HIGH POINT
121+00.00	785.93	0.0348		
121+45.00	785.76	0.04	-0.0037	END WARPING
LOCATION 4 - WB SHOULDERS				
119+35.00	785.75	0.04	0.0037	BEGIN WARPING
120+42.03	786.14	0.02		HIGH POINT
121+00.00	785.92	0.0348		
121+45.00	785.75	0.04	-0.0038	END WARPING

DEE DEE PLANKEY

DEE DEE PLANKEY

SN 101-0001 & SN 101-0002 TO BE REMOVED AND REPLACED



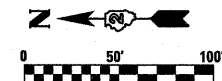
CURVE VCEN2  
 PI STA. =36+67.05  
 $\Delta = 21^\circ 57' 07''$  (RT)  
 $D = 7^\circ 30' 00''$   
 $R = 763.94'$   
 $T = 148.16'$   
 $L = 292.69'$   
 $E = 14.24'$   
 $e = 8.5\%$  (MATCH EXIST)  
 $T.R. = NA$   
 $S.E. RUN = 411.58'$   
 $P.C. STA. = 35+18.88$   
 $P.T. STA. = 38+11.58$   
 $S.E. ATTAINED$   
 $STA. 37+00.00$  TO  $STA. 41+11.58$

EXIST. CURVE VCEN1  
 PI STA. =34+05.30  
 $\Delta = 29^\circ 02' 00''$  (RT)  
 $D = 12^\circ 30' 00''$   
 $R = 458.37'$   
 $T = 118.68'$   
 $L = 232.27'$   
 $E = 15.12'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 32+86.62$   
 $P.T. STA. = 35+18.88$

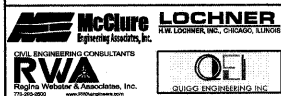
IL DEPT OF TRANSPORTATION

EMBANKMENT STORAGE AREA  
 (EMBANKMENT MATERIAL GENERATED FROM STAGE 1 WORK TO BE USED IN STAGE 2)

GERIK COOK



Rev. 1-9-12 1" = 50'



USER NAME = USERNAME  
 FILE NAME = #FILE#  
 PLOT SCALE = 50.0000' / IN.  
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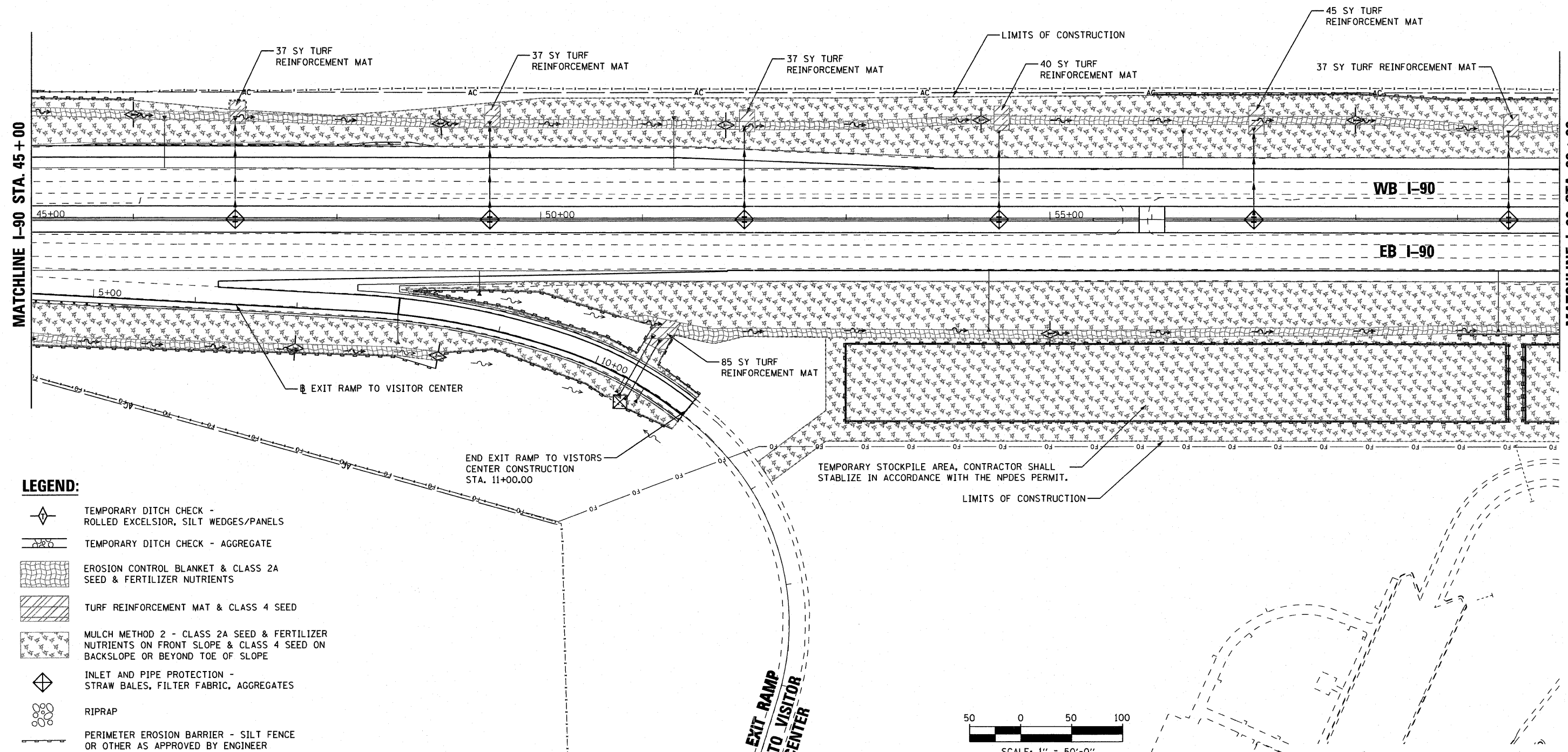
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION









PLAN SHEETS - I-90

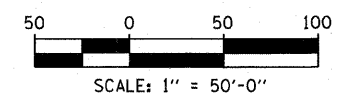
SCALE: N/A SHEET NO. OF SHEETS STA. 60+00 TO STA. 75+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	83
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				




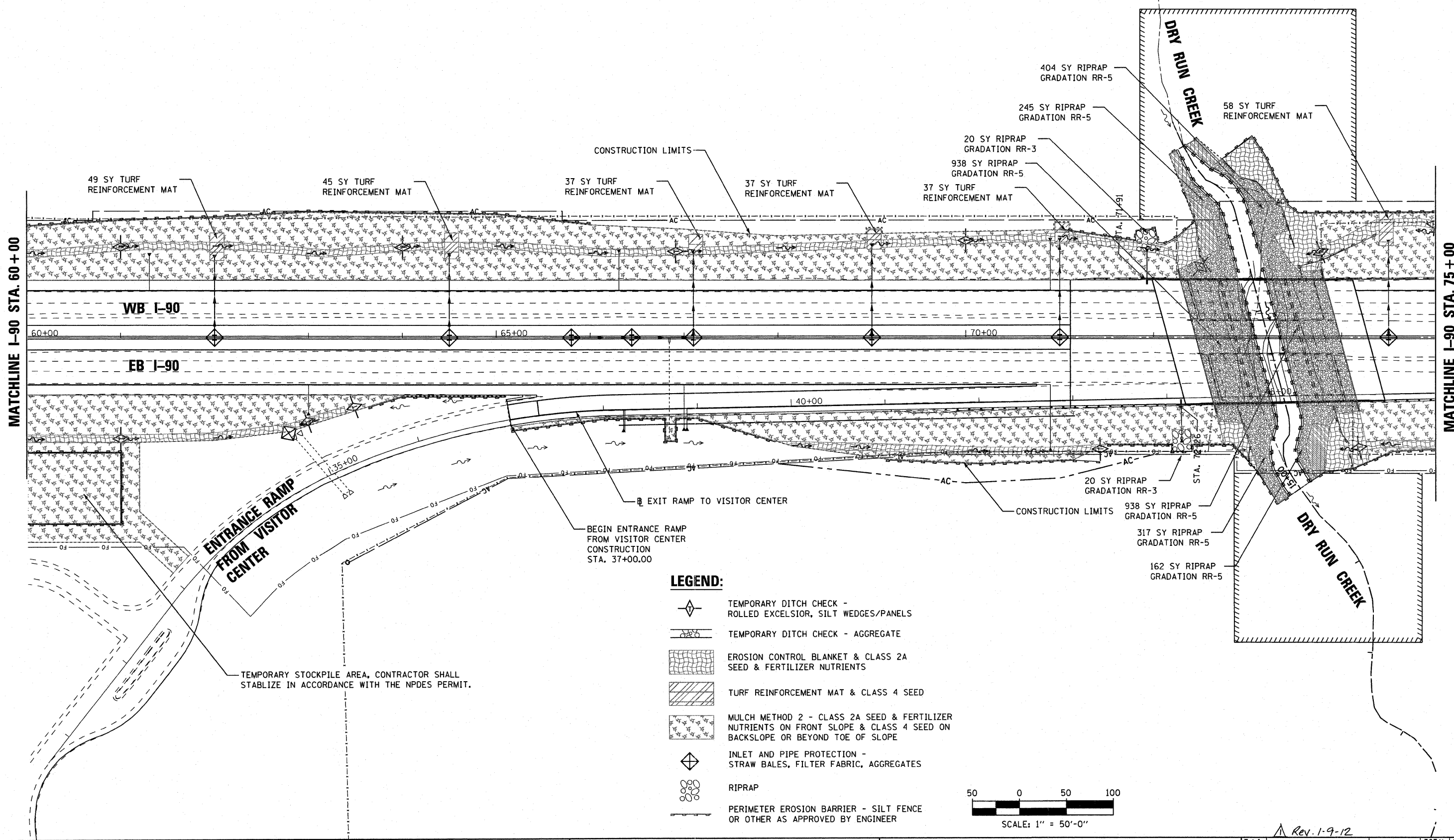
**LEGEND:**

-  TEMPORARY DITCH CHECK - ROLLED EXCELSIOR, SILT WEDGES/PANELS
-  TEMPORARY DITCH CHECK - AGGREGATE
-  EROSION CONTROL BLANKET & CLASS 2A SEED & FERTILIZER NUTRIENTS
-  TURF REINFORCEMENT MAT & CLASS 4 SEED
-  MULCH METHOD 2 - CLASS 2A SEED & FERTILIZER NUTRIENTS ON FRONT SLOPE & CLASS 4 SEED ON BACKSLOPE OR BEYOND TOE OF SLOPE
-  INLET AND PIPE PROTECTION - STRAW BALES, FILTER FABRIC, AGGREGATES
-  RIPRAP
-  PERIMETER EROSION BARRIER - SILT FENCE OR OTHER AS APPROVED BY ENGINEER

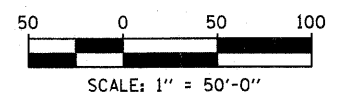


Rev. 1-9-12

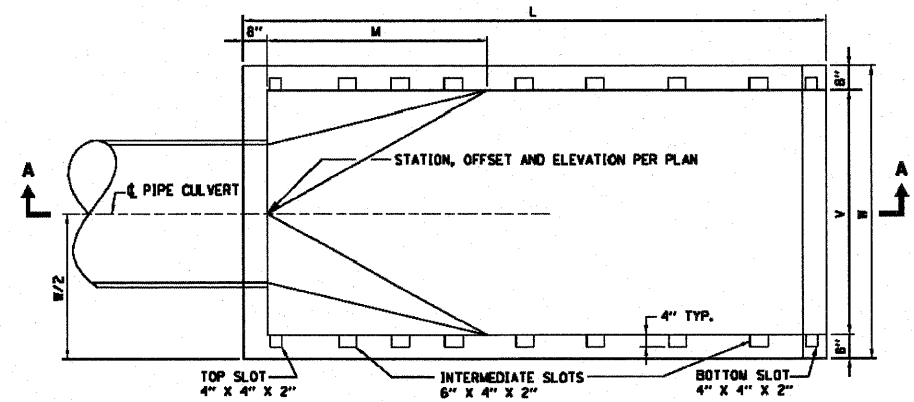
	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STORM WATER POLLUTION PREVENTION PLAN</b> <b>I-90 FROM WISCONSIN STATE LINE TO ROCKTON ROAD</b>	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN - JDH	REVISED -			90	(X2-I) R	WINNEBAGO	510	223
	PLOT DATE = 12/12/2011	CHECKED - DW	REVISED -		SCALE: 1"=50'-0"	SHEET NO. 5 OF 12 SHEETS		STA. 45+00	TO STA. 60+00	CONTRACT NO. 64C29
		DATE - 10-21-2011	REVISED -			[ILLINOIS] FED. AID PROJECT				



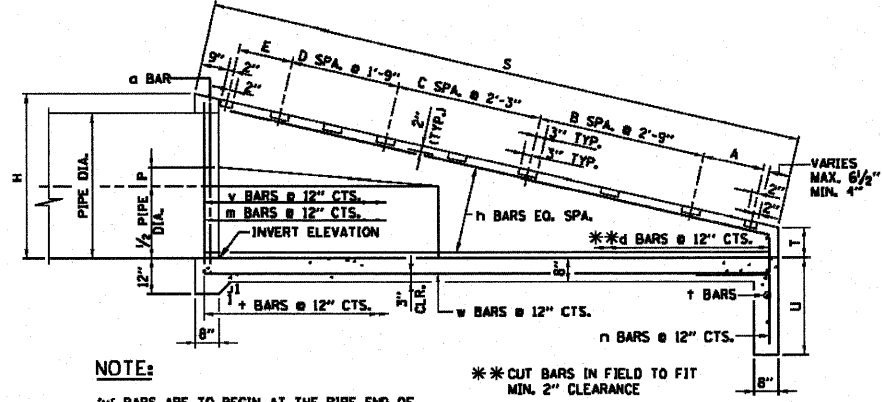
- LEGEND:**
- TEMPORARY DITCH CHECK - ROLLED EXCELSIOR, SILT WEDGES/PANELS
  - TEMPORARY DITCH CHECK - AGGREGATE
  - EROSION CONTROL BLANKET & CLASS 2A SEED & FERTILIZER NUTRIENTS
  - TURF REINFORCEMENT MAT & CLASS 4 SEED
  - MULCH METHOD 2 - CLASS 2A SEED & FERTILIZER NUTRIENTS ON FRONT SLOPE & CLASS 4 SEED ON BACKSLOPE OR BEYOND TOE OF SLOPE
  - INLET AND PIPE PROTECTION - STRAW BALES, FILTER FABRIC, AGGREGATES
  - RIPRAP
  - PERIMETER EROSION BARRIER - SILT FENCE OR OTHER AS APPROVED BY ENGINEER



	USER NAME = .USERNAME.	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STORM WATER POLLUTION PREVENTION PLAN</b> <b>I-90 FROM WISCONSIN STATE LINE TO ROCKTON ROAD</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN - JDH	REVISIED -		SCALE: 1"=50'-0"	90	(X2-1) R	WINNEBAGO	510	224	CONTRACT NO. 64C29	
	PLOT DATE = 12/12/2011	CHECKED - DW	REVISED -	SCALE: 1"=50'-0"    SHEET NO. 6 OF 12 SHEETS    STA. 60+00    TO STA. 75+00			[ILLINOIS] FED. AID PROJECT					
	DATE = 10-21-2011	REVISIED -	REVISED -	Rev. 1-9-12								



PLAN SINGLE PIPE DESIGN

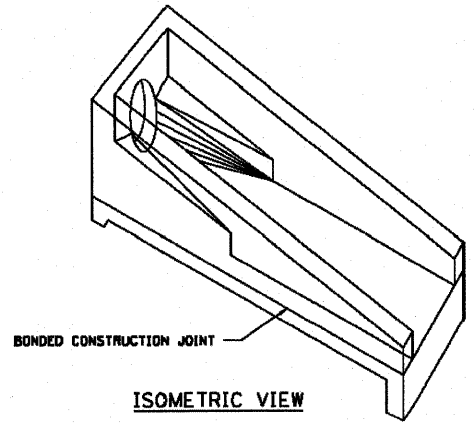


NOTE:

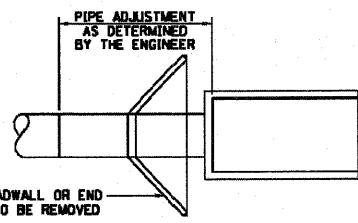
"v" BARS ARE TO BEGIN AT THE PIPE END OF THE SLOPED EXTERIOR HEADWALLS. "m" BARS ARE TO BEGIN AT THE PIPE END OF THE SLOPED INTERIOR HEADWALLS.

\*\* CUT BARS IN FIELD TO FIT MIN. 2" CLEARANCE

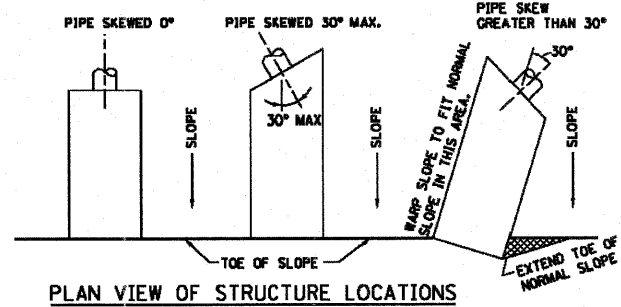
SECTION A-A



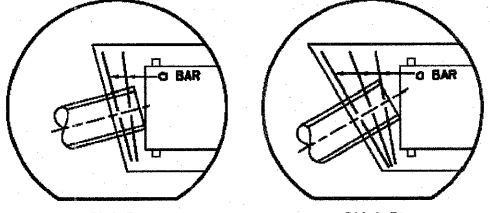
ISOMETRIC VIEW



INSTALLATION DETAIL



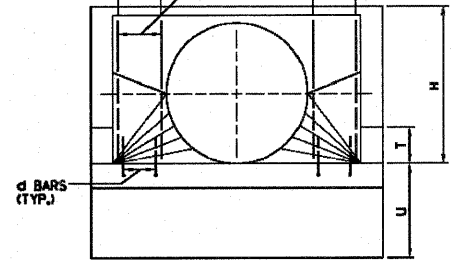
PLAN VIEW OF STRUCTURE LOCATIONS



NOTES:

ADDITIONAL "A" BARS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR. THE ADDITIONAL BARS ARE NOT INCLUDED IN THE LISTED QUANTITIES BUT WILL BE PAID FOR AS REINFORCING STEEL.  
1. ADDITIONAL BAR REQUIRED FOR EACH 15° SKEW OR FRACTION THEREOF.

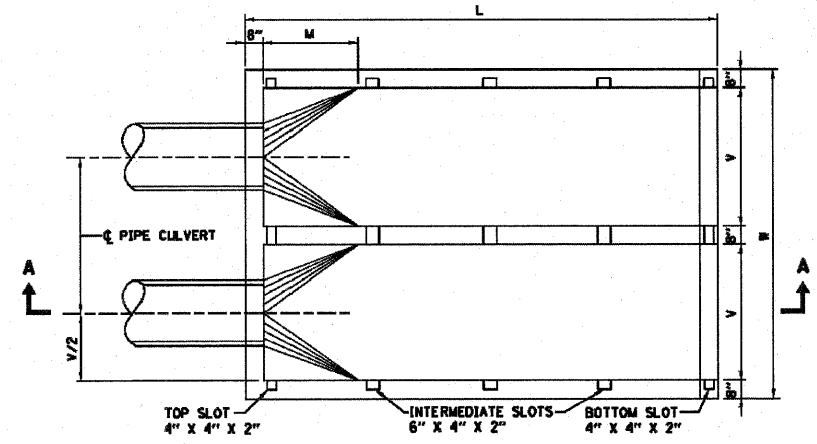
PIPE DIA'S 18", 24", & 30" 1 SPA.  
PIPE DIA'S 36", 42", & 48" 2 EQ. SPA.



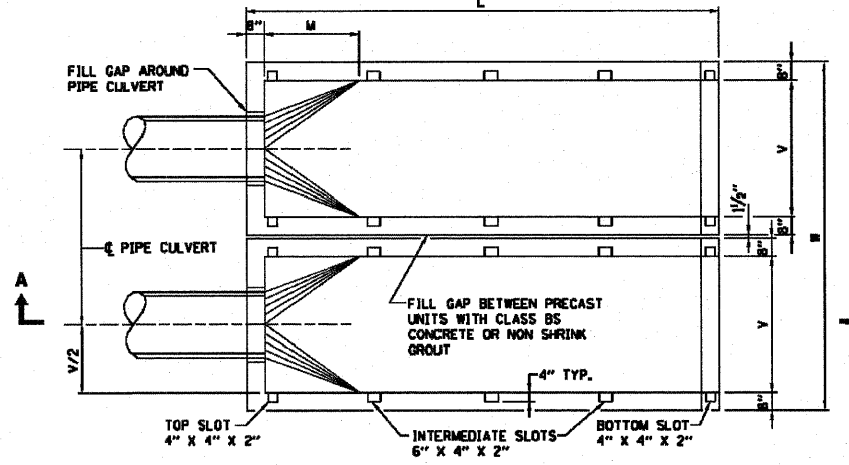
FRONT ELEVATION

NOTES:

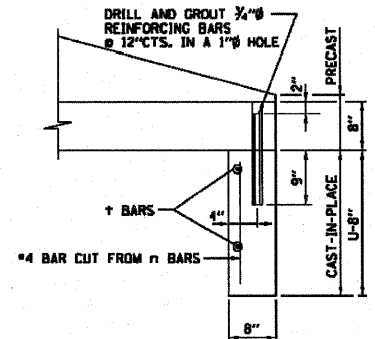
1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. BAR BENDING DETAILS ARE DIMENSIONED OUT TO OUT OF BARS.
3. ALL EXPOSED EDGES SHALL HAVE A 3/4" - 45° CHAMFER. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW THE FINISHED GROUND LINE.
4. CARE SHALL BE EXERCISED IN REMOVING ANY LENGTH OF EXISTING PIPE SO THE REMAINING PIPE IS UNDAMAGED AND FULLY FUNCTIONING.
5. FOR DIMENSIONS AND QUANTITIES FOR SINGLE PIPE DESIGN SEE SHEET 2 (OF 5) IN THIS SERIES.
6. FOR DIMENSIONS AND QUANTITIES FOR TWIN PIPE DESIGN SEE SHEET 3 (OF 5) IN THIS SERIES.
7. FOR STEEL GRATING DETAILS SEE SHEET 5 (OF 5) IN THIS SERIES.
8. THE STATION, OFFSET AND INVERT ELEVATION FOR THE HEADWALL SHALL APPLY AT THE END OF THE CONNECTING PIPE OPENING.



PLAN CAST-IN-PLACE HEADWALL



PLAN PRECAST HEADWALL TWIN PIPE DESIGN



PRECAST DETAIL CUT-OFF WALL

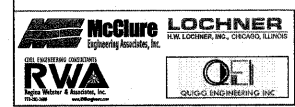
SHEET 1 OF 5

APPROVED *Paul Kovacs* DATE 6-1-2009  
DATE ENGINEER



DATE	REVISIONS
6-1-2009	MISC. DIMENSION CHANGE
1-1-2011	REVISED NOTES
	REVISED NOTES

HEADWALL TYPE III  
18"-24"-30"-36"-42"-48"  
FOR 1:4, 1:6, AND 1:10 SLOPES  
STANDARD B6-02



USER NAME = .USERNAME.	DESIGNED - BLM	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - JPW	REVISED -
PLOT DATE = 12/22/2011	CHECKED - BLM	REVISED -
	DATE - 12/22/11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HEADWALL TYPE III - 1

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	0X2-1R	WINNEBAGO	510	240A
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:4 SLOPE

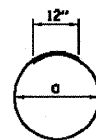
PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	7'-4"	2'-3"	2"	7'-6 3/4"	2"	2'-8"	3'-0"	4'-4"	2'-2"	1'-8"	--	1	--	1.7	132
24"	2'-8"	10'-0"	3'-0"	3"	10'-3 3/4"	2"	2'-8"	4'-0"	5'-4"	2'-2"	2'-2"	--	2	--	2.8	201
30"	3'-2"	12'-0"	3'-6"	4"	12'-4 1/2"	2"	2'-8"	5'-0"	6'-4"	2'-8"	2'-8"	2	--	--	4.0	275
36"	3'-8"	14'-0"	4'-3"	4"	14'-5 1/4"	2"	2'-8"	5'-0"	7'-4"	2'-2"	1'-8"	--	4	--	5.3	351
42"	4'-3"	16'-4"	4'-8"	6"	16'-10"	2"	3'-2"	6'-6"	7'-10"	2'-8"	1'-8"	4	--	--	6.8	436
48"	4'-9"	18'-4"	5'-0"	6"	18'-10 3/4"	2"	3'-2"	7'-0"	8'-4"	2'-2"	1'-8"	--	6	--	8.2	513

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:6 SLOPE

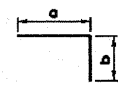
PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	11'-0"	2'-3"	2"	11'-1 3/4"	2"	2'-8"	3'-0"	4'-4"	2'-2"	1'-8"	--	1	2	2.2	183
24"	2'-8"	15'-0"	3'-0"	3"	15'-2 1/2"	2"	2'-8"	4'-0"	5'-4"	2'-8"	2'-8"	3	--	--	3.8	278
30"	3'-2"	18'-0"	3'-6"	4"	18'-3"	2"	2'-8"	5'-0"	6'-4"	2'-2"	1'-8"	--	5	1	5.3	385
36"	3'-8"	21'-0"	4'-3"	4"	21'-3 1/2"	2"	2'-8"	5'-0"	7'-4"	2'-8"	2'-2"	3	3	--	7.3	492
42"	4'-3"	24'-6"	4'-8"	6"	24'-10"	2"	3'-2"	6'-6"	7'-10"	2'-8"	1'-8"	5	--	3	9.4	616
48"	4'-9"	27'-6"	5'-0"	6"	27'-10 1/2"	2"	3'-2"	7'-0"	8'-4"	2'-8"	2'-2"	7	1	--	11.3	727

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:10 SLOPE

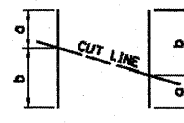
PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	18'-4"	2'-3"	2"	18'-5"	2"	2'-8"	3'-0"	4'-4"	2'-2"	1'-8"	--	5	1	3.4	279
24"	2'-8"	25'-0"	3'-0"	3"	25'-1 1/4"	2"	2'-8"	4'-0"	5'-4"	2'-2"	1'-8"	--	8	1	5.8	434
30"	3'-2"	30'-0"	3'-6"	4"	30'-1 3/4"	2"	2'-8"	5'-0"	6'-4"	2'-2"	1'-8"	--	11	--	8.2	610
36"	3'-8"	35'-0"	4'-3"	4"	35'-2"	2"	2'-8"	5'-0"	7'-4"	2'-2"	2'-2"	--	13	--	11.2	778
42"	4'-3"	40'-10"	4'-8"	6"	41'-0 1/2"	2"	3'-2"	6'-6"	7'-10"	2'-2"	1'-8"	--	12	5	14.3	984
48"	4'-9"	45'-10"	5'-0"	6"	46'-0 3/4"	2"	3'-2"	7'-0"	8'-4"	2'-2"	1'-8"	--	15	4	17.4	1165



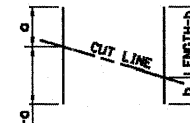
TYPE 1



TYPE 2



TYPE 3



TYPE 4

SINGLE PIPE DESIGN

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:4 SLOPE

PIPE DIA	NO. 4 REINFORCING BARS					
	MARK	TYPE	NO. REQ'D.	LENGTH	a	b
18"	d18	1	1	8'-7"	2'-5"	
	d18	2	20	2'-6"	1'-9"	9"
	n18	STR.	6	7'-0"		
	n18	2	5	3'-0"	2'-0"	1'-0"
	t18	STR.	10	4'-0"		
	u18	STR.	4	1'-9"		
24"	d24	1	1	10'-5"	3'-0"	
	d24	2	26	2'-3"	1'-6"	9"
	n24	STR.	6	9'-8"		
	n24	2	6	3'-0"	2'-0"	1'-0"
	t24	STR.	13	5'-0"		
	u24	STR.	4	2'-6"		
30"	d30	1	1	11'-9"	3'-5"	
	d30	2	30	2'-3"	1'-6"	9"
	n30	STR.	8	11'-8"		
	n30	2	7	3'-0"	2'-0"	1'-0"
	t30	STR.	15	6'-0"		
	u30	STR.	4	3'-0"		
36"	d36	1	1	13'-7"	4'-0"	
	d36	2	36	2'-3"	1'-6"	9"
	n36	STR.	8	13'-8"		
	n36	2	8	3'-0"	2'-0"	1'-0"
	t36	STR.	17	7'-0"		
	u36	STR.	6	3'-6"		
42"	d42	1	1	15'-5"	4'-7"	
	d42	2	40	2'-3"	1'-6"	9"
	n42	STR.	10	16'-0"		
	n42	2	8	3'-6"	2'-6"	1'-0"
	t42	STR.	19	7'-6"		
	u42	STR.	6	4'-1"		
48"	d48	1	1	17'-3"	5'-2"	
	d48	2	44	2'-3"	1'-6"	9"
	n48	STR.	10	18'-0"		
	n48	2	9	3'-6"	2'-6"	1'-0"
	t48	STR.	21	8'-0"		
	u48	STR.	6	4'-7"		

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:6 SLOPE

PIPE DIA	NO. 4 REINFORCING BARS					
	MARK	TYPE	NO. REQ'D.	LENGTH	a	b
18"	d18	1	1	8'-7"	2'-5"	
	d18	2	28	2'-6"	1'-9"	9"
	n18	STR.	6	10'-8"		
	n18	2	5	3'-0"	2'-0"	1'-0"
	t18	STR.	14	4'-0"		
	u18	STR.	4	1'-9"		
24"	d24	1	1	10'-5"	3'-0"	
	d24	2	36	2'-3"	1'-6"	9"
	n24	STR.	6	14'-8"		
	n24	2	6	3'-0"	2'-0"	1'-0"
	t24	STR.	18	5'-0"		
	u24	STR.	4	2'-6"		
30"	d30	1	1	11'-9"	3'-5"	
	d30	2	42	2'-3"	1'-6"	9"
	n30	STR.	8	17'-8"		
	n30	2	7	3'-0"	2'-0"	1'-0"
	t30	STR.	21	6'-0"		
	u30	STR.	4	3'-0"		
36"	d36	1	1	13'-7"	4'-0"	
	d36	2	50	2'-3"	1'-6"	9"
	n36	STR.	8	20'-8"		
	n36	2	8	3'-0"	2'-0"	1'-0"
	t36	STR.	24	7'-0"		
	u36	STR.	6	3'-6"		
42"	d42	1	1	15'-5"	4'-7"	
	d42	2	56	2'-3"	1'-6"	9"
	n42	STR.	10	24'-2"		
	n42	2	8	3'-6"	2'-6"	1'-0"
	t42	STR.	27	7'-6"		
	u42	STR.	6	4'-1"		
48"	d48	1	1	17'-3"	5'-2"	
	d48	2	62	2'-3"	1'-6"	9"
	n48	STR.	10	27'-2"		
	n48	2	9	3'-6"	2'-6"	1'-0"
	t48	STR.	30	8'-0"		
	u48	STR.	6	4'-7"		

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:10 SLOPE

PIPE DIA	NO. 4 REINFORCING BARS					
	MARK	TYPE	NO. REQ'D.	LENGTH	a	b
18"	d18	1	1	8'-7"	2'-5"	
	d18	2	42	2'-6"	1'-9"	9"
	n18	STR.	6	18'-0"		
	n18	2	5	3'-0"	2'-0"	1'-0"
	t18	STR.	21	4'-0"		
	u18	STR.	4	1'-9"		
24"	d24	1	1	10'-5"	3'-0"	
	d24	2	56	2'-3"	1'-6"	9"
	n24	STR.	6	24'-8"		
	n24	2	6	3'-0"	2'-0"	1'-0"
	t24	STR.	28	5'-0"		
	u24	STR.	4	2'-6"		
30"	d30	1	1	11'-9"	3'-5"	
	d30	2	66	2'-3"	1'-6"	9"
	n30	STR.	8	29'-8"		
	n30	2	7	3'-0"	2'-0"	1'-0"
	t30	STR.	33	6'-0"		
	u30	STR.	4	3'-0"		
36"	d36	1	1	13'-7"	4'-0"	
	d36	2	78	2'-3"	1'-6"	9"
	n36	STR.	8	34'-8"		
	n36	2	8	3'-0"	2'-0"	1'-0"
	t36	STR.	38	7'-0"		
	u36	STR.	6	3'-6"		
42"	d42	1	1	15'-5"	4'-7"	
	d42	2	90	2'-3"	1'-6"	9"
	n42	STR.	10	40'-6"		
	n42	2	8	3'-6"	2'-6"	1'-0"
	t42	STR.	44	7'-6"		
	u42	STR.	6	4'-1"		
48"	d48	1	1	17'-3"	5'-2"	
	d48	2	100	2'-3"	1'-6"	9"
	n48	STR.	10	45'-6"		
	n48	2	9	3'-6"	2'-6"	1'-0"
	t48	STR.	49	8'-0"		
	u48	STR.	6	4'-7"		

NOTES:

- THE "v" BARS, TYPE 3, SHALL BE ORDERED FULL LENGTH AND CUT IN THE FIELD. THE REMAINING PORTION OF THE "v" BARS SHALL BE USED IN THE OTHER WALL.
- THE LONG LEG OF THE "d" AND "n" BARS SHALL BE VERTICAL.
- QUANTITIES ON THIS DRAWING ARE BASED ON THE CAST-IN-PLACE DESIGN.
- "STR." = STRAIGHT BAR.
- ALL REINFORCING BARS ARE #4 BARS.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V/H).

SHEET 2 OF 5



HEADWALL TYPE III  
18"-24"-30"-42"-48"  
FOR 1:4, 1:6, AND 1:10 SLOPES  
STANDARD B6-02

APPROVED *Paul Kovacs* DATE 6-1-2009  
ENGINEER

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:4 SLOPE  
TWIN PIPE CULVERT

PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	7'-4"	2'-3"	2"	7'-6 3/4"	2"	2'-8"	3'-0"	8'-0"	2'-2"	1'-8"	--	1	--	2.9	228
24"	2'-8"	10'-0"	3'-0"	3"	10'-3 3/4"	2"	2'-8"	4'-0"	10'-0"	2'-2"	2'-2"	--	2	--	4.6	347
30"	3'-2"	12'-0"	3'-6"	4"	12'-4 1/2"	2"	2'-8"	5'-0"	12'-0"	2'-8"	2'-8"	2	--	--	7.1	475
36"	3'-8"	14'-0"	4'-3"	4"	14'-5 1/4"	2"	2'-8"	6'-0"	14'-0"	2'-2"	1'-8"	--	4	--	9.7	611
42"	4'-3"	16'-4"	4'-8"	5"	16'-10"	2"	3'-2"	6'-6"	15'-0"	2'-8"	1'-8"	4	--	--	12.5	766
48"	4'-9"	18'-4"	5'-0"	6"	18'-10 3/4"	2"	3'-2"	7'-0"	16'-0"	2'-2"	1'-8"	--	6	--	15.1	890

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:6 SLOPE  
TWIN PIPE CULVERT

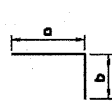
PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	11'-0"	2'-3"	2"	11'-1 1/4"	2"	2'-8"	3'-0"	8'-0"	2'-2"	1'-8"	--	1	2	5.1	312
24"	2'-8"	15'-0"	3'-0"	3"	15'-2 1/2"	2"	2'-8"	4'-0"	10'-0"	2'-8"	2'-8"	3	--	--	6.7	476
30"	3'-2"	18'-0"	3'-6"	4"	18'-3"	2"	2'-8"	5'-0"	12'-0"	2'-2"	1'-8"	--	5	1	9.6	662
36"	3'-8"	21'-0"	4'-3"	4"	21'-3 1/2"	2"	2'-8"	6'-0"	14'-0"	2'-8"	2'-2"	3	3	--	13.2	852
42"	4'-3"	24'-6"	4'-8"	5"	24'-10 1/2"	2"	3'-2"	6'-6"	15'-0"	2'-8"	1'-8"	5	--	3	16.9	1079
48"	4'-9"	27'-6"	5'-0"	6"	27'-10 1/2"	2"	3'-2"	7'-0"	16'-0"	2'-8"	2'-2"	7	1	--	20.4	1255

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:10 SLOPE  
TWIN PIPE CULVERT

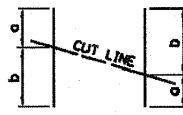
PIPE DIA	DIMENSIONS											NO. OF SPACES			CONCRETE CLASS SI CU. YD.	REINF. STEEL LBS.
	H	L	M	P	S	T	U	V	W	A	E	B	C	D		
18"	2'-0"	18'-4"	2'-3"	2"	18'-5"	2"	2'-8"	3'-0"	8'-0"	2'-2"	1'-8"	--	5	1	6.0	472
24"	2'-8"	25'-0"	3'-0"	3"	25'-11 1/2"	2"	2'-8"	4'-0"	10'-0"	2'-2"	1'-8"	--	8	1	10.2	739
30"	3'-2"	30'-0"	3'-6"	4"	30'-13 1/4"	2"	2'-8"	5'-0"	12'-0"	2'-2"	1'-8"	--	11	--	14.7	1039
36"	3'-8"	35'-0"	4'-3"	4"	35'-2"	2"	2'-8"	6'-0"	14'-0"	2'-2"	2'-2"	--	13	--	20.0	1340
42"	4'-3"	40'-10"	4'-8"	5"	41'-0 1/2"	2"	3'-2"	6'-6"	15'-0"	2'-2"	1'-8"	--	12	5	25.7	1714
48"	4'-9"	45'-10"	5'-0"	6"	46'-0 3/4"	2"	3'-2"	7'-0"	16'-0"	2'-2"	1'-8"	--	15	4	31.1	2002



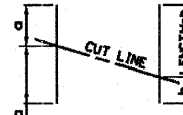
TYPE 1



TYPE 2



TYPE 3



TYPE 4

TWIN PIPE DESIGN

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:4 SLOPE TWIN PIPE CULVERT

PIPE DIA	NO. 4 REINFORCING BARS				
	MARK	TYPE	NO. REQ'D.	LENGTH	a b
18"	o18	1	2	8'-7"	2'-5"
	d18	2	32	2'-6"	1'-9"
	h18	STR.	9	7'-0"	
	n18	2	9	3'-0"	2'-0"
	t18	STR.	10	7'-8"	
	u18	STR.	8	1'-9"	
	w18	STR.	9	7'-0"	
	24"	o24	1	2	10'-5"
d24		2	41	2'-3"	1'-6"
h24		STR.	9	9'-8"	
n24		2	11	3'-0"	2'-0"
t24		STR.	13	9'-8"	
u24		STR.	8	2'-6"	
v24		3	6	3'-9"	1'-3"
w24		STR.	11	9'-8"	
30"	o30	1	2	11'-9"	3'-5"
	d30	2	47	2'-3"	1'-6"
	h30	STR.	12	11'-8"	
	n30	2	13	3'-0"	2'-0"
	t30	STR.	15	11'-8"	
	u30	STR.	8	3'-0"	
	v30	3	8	4'-3"	1'-3"
	w30	STR.	13	11'-8"	
36"	o36	1	2	13'-7"	4'-0"
	d36	2	57	2'-3"	1'-6"
	h36	STR.	12	13'-8"	
	n36	2	15	3'-0"	2'-0"
	t36	STR.	17	13'-8"	
	u36	STR.	12	3'-6"	
	v36	3	10	4'-9"	1'-3"
	w36	STR.	15	13'-8"	
42"	o42	1	2	15'-5"	4'-7"
	d42	2	63	2'-3"	1'-6"
	h42	STR.	15	16'-0"	
	n42	2	16	3'-6"	2'-6"
	t42	STR.	19	14'-8"	
	u42	STR.	12	4'-1"	
	v42	3	12	5'-4"	1'-3"
	w42	STR.	16	16'-0"	
48"	o48	1	2	17'-3"	5'-2"
	d48	2	69	2'-3"	1'-6"
	h48	STR.	15	18'-0"	
	n48	2	17	3'-6"	2'-6"
	t48	STR.	21	15'-8"	
	u48	STR.	12	4'-7"	
	v48	3	14	5'-10"	1'-3"
	w48	STR.	17	18'-0"	

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:6 SLOPE TWIN PIPE CULVERT

PIPE DIA	NO. 4 REINFORCING BARS				
	MARK	TYPE	NO. REQ'D.	LENGTH	a b
18"	o18	1	2	8'-7"	2'-5"
	d18	2	44	2'-6"	1'-9"
	h18	STR.	9	10'-8"	
	n18	2	9	3'-0"	2'-0"
	t18	STR.	14	7'-8"	
	u18	STR.	8	1'-9"	
	w18	STR.	9	10'-8"	
	24"	o24	1	2	10'-5"
d24		2	56	2'-3"	1'-6"
h24		STR.	9	14'-8"	
n24		2	11	3'-0"	2'-0"
t24		STR.	18	9'-8"	
u24		STR.	8	2'-6"	
v24		3	8	3'-9"	1'-3"
w24		STR.	11	14'-8"	
30"	o30	1	2	11'-9"	3'-5"
	d30	2	65	2'-3"	1'-6"
	h30	STR.	12	17'-8"	
	n30	2	13	3'-0"	2'-0"
	t30	STR.	21	11'-8"	
	u30	STR.	8	3'-0"	
	v30	3	11	4'-3"	1'-3"
	w30	STR.	13	17'-8"	
36"	o36	1	2	13'-7"	4'-0"
	d36	2	78	2'-3"	1'-6"
	h36	STR.	12	20'-8"	
	n36	2	15	3'-0"	2'-0"
	t36	STR.	24	13'-8"	
	u36	STR.	12	3'-6"	
	v36	3	14	4'-9"	1'-3"
	w36	STR.	15	20'-8"	
42"	o42	1	2	15'-5"	4'-7"
	d42	2	87	2'-3"	1'-6"
	h42	STR.	15	24'-2"	
	n42	2	16	3'-6"	2'-6"
	t42	STR.	27	14'-8"	
	u42	STR.	12	4'-1"	
	v42	3	17	5'-4"	1'-3"
	w42	STR.	16	24'-2"	
48"	o48	1	2	17'-3"	5'-2"
	d48	2	95	2'-3"	1'-6"
	h48	STR.	15	27'-2"	
	n48	2	17	3'-6"	2'-6"
	t48	STR.	30	15'-8"	
	u48	STR.	12	4'-7"	
	v48	3	20	5'-10"	1'-3"
	w48	STR.	17	27'-2"	

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:10 SLOPE TWIN PIPE CULVERT

PIPE DIA	NO. 4 REINFORCING BARS				
	MARK	TYPE	NO. REQ'D.	LENGTH	a b
18"	o18	1	2	8'-7"	2'-5"
	d18	2	65	2'-6"	1'-9"
	h18	STR.	9	18'-0"	
	n18	2	9	3'-0"	2'-0"
	t18	STR.	21	7'-8"	
	u18	STR.	8	1'-9"	
	w18	STR.	9	18'-0"	
	24"	o24	1	2	10'-5"
d24		2	86	2'-3"	1'-6"
h24		STR.	9	24'-8"	
n24		2	11	3'-0"	2'-0"
t24		STR.	28	9'-8"	
u24		STR.	8	2'-6"	
v24		3	13	3'-9"	1'-3"
w24		STR.	11	24'-8"	
30"	o30	1	2	11'-9"	3'-5"
	d30	2	101	2'-3"	1'-6"
	h30	STR.	12	29'-8"	
	n30	2	13	3'-0"	2'-0"
	t30	STR.	33	11'-8"	
	u30	STR.	8	3'-0"	
	v30	3	18	4'-3"	1'-3"
	w30	STR.	13	29'-8"	
36"	o36	1	2	13'-7"	4'-0"
	d36	2	120	2'-3"	1'-6"
	h36	STR.	12	34'-8"	
	n36	2	15	3'-0"	2'-0"
	t36	STR.	38	13'-8"	
	u36	STR.	12	3'-6"	
	v36	3	23	4'-9"	1'-3"
	w36	STR.	15	34'-8"	
42"	o42	1	2	15'-5"	4'-7"
	d42	2	138	2'-3"	1'-6"
	h42	STR.	15	40'-6"	
	n42	2	16	3'-6"	2'-6"
	t42	STR.	44	14'-8"	
	u42	STR.	12	4'-1"	
	v42	3	27	5'-4"	1'-3"
	w42	STR.	16	40'-6"	
48"	o48	1	2	17'-3"	5'-2"
	d48	2	153	2'-3"	1'-6"
	h48	STR.	15	45'-6"	
	n48	2	17	3'-6"	2'-6"
	t48	STR.	49	15'-8"	
	u48	STR.	12	4'-7"	
	v48	3	32	5'-10"	1'-3"
	w48	STR.	17	45'-6"	

NOTES:

- THE 'v' BARS, TYPE 3, AND 'm' BARS, TYPE 4, SHALL BE ORDERED FULL LENGTH AND CUT IN THE FIELD. THE REMAINING PORTION OF THE 'v' BARS SHALL BE USED IN THE OTHER EXTERIOR WALL. THE 'm' BARS SHALL BE USED IN THE INTERIOR WALL.
- THE LONG LEG OF THE 'd' AND 'n' BARS SHALL BE VERTICAL.
- QUANTITIES ON THIS DRAWING ARE BASED ON THE CAST-IN-PLACE DESIGN.
- "STR." = STRAIGHT BAR.
- ALL REINFORCING BARS ARE #4 BARS.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

SHEET 3 OF 5

**Illinois Tollway**  
Open Roads for a Better Future

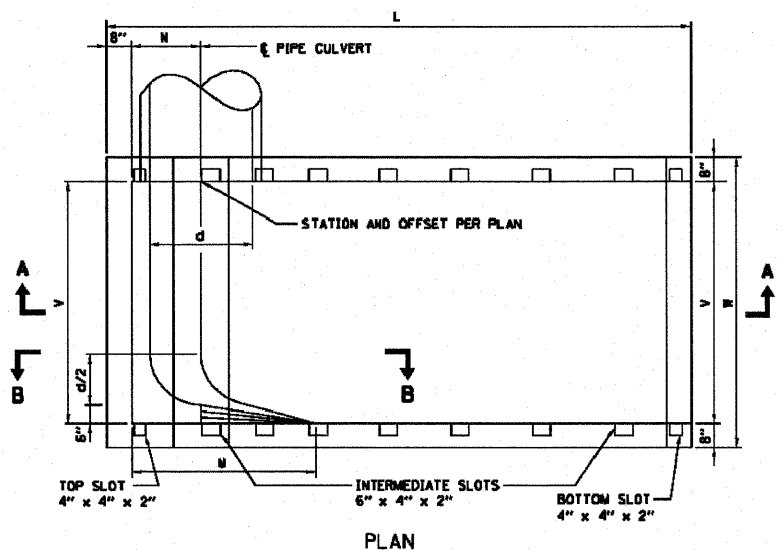
HEADWALL TYPE III  
18"-24"-30"-36"-42"-48"  
FOR 1:4, 1:6, AND 1:10 SLOPES

STANDARD B6-O2

Rev. 1-9-12

Paul Kovacs  
APPROVED DATE 6-1-2009



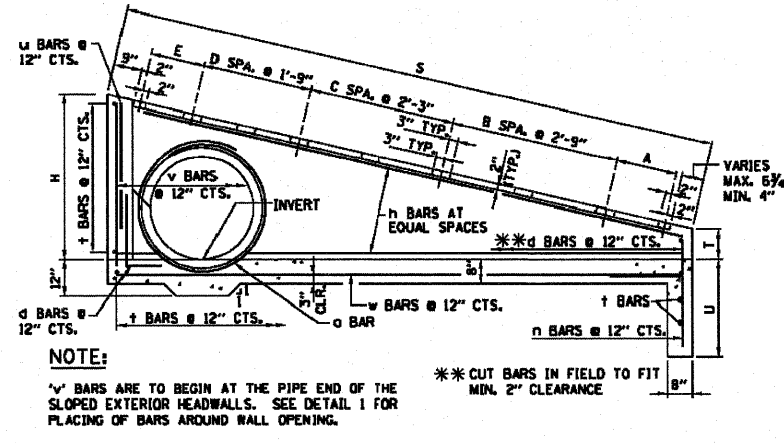


DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:4 SLOPE

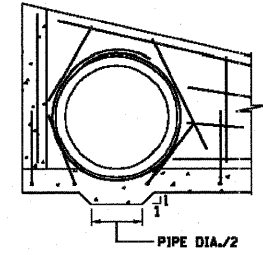
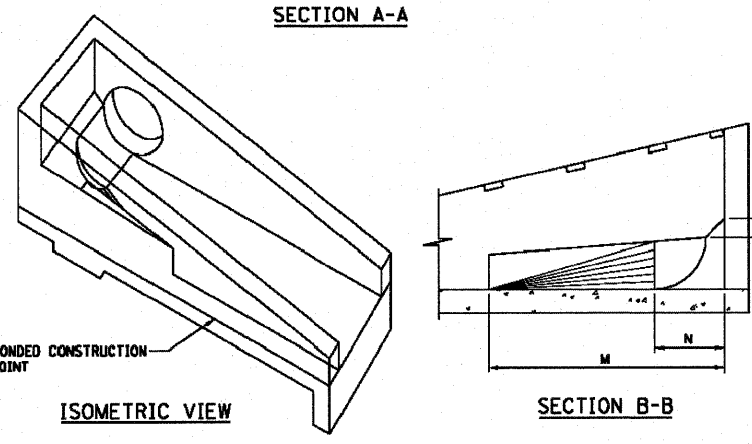
PIPE DIA	DIMENSIONS														NO. OF SPACES	CONCRETE CLASS 51 CU. YD.	REINF. STEEL LBS.
	H	L	M	N	P	S	T	U	V	W	A	E	B	C			
18"	3'-2"	12'-0"	3'-6"	1'-6"	4"	12'-4 1/2"	2"	2'-8"	3'-0"	4'-4"	2'-8"	2'-8"	2	--	--	2.8	244
24"	3'-8"	14'-0"	4'-3"	1'-8"	4"	14'-5 1/4"	2"	2'-8"	4'-0"	5'-4"	2'-2"	1'-8"	--	4	--	4.1	316
30"	4'-3"	16'-4"	4'-8"	1'-10"	6"	16'-10"	2"	2'-8"	5'-0"	6'-4"	2'-8"	1'-8"	4	--	--	5.6	422
36"	4'-9"	18'-4"	5'-0"	2'-0"	6"	18'-10 3/4"	2"	2'-8"	6'-0"	7'-4"	2'-2"	1'-8"	--	6	--	7.2	514
42"	5'-4"	20'-8"	5'-4"	2'-3"	6"	21'-3 3/4"	2"	3'-2"	6'-6"	7'-10"	2'-8"	2'-2"	3	3	--	8.8	625
48"	5'-11"	23'-0"	5'-8"	2'-6"	6"	23'-8 1/2"	2"	3'-2"	7'-0"	8'-4"	2'-8"	2'-2"	3	4	--	10.6	731

DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III 1:6 SLOPE

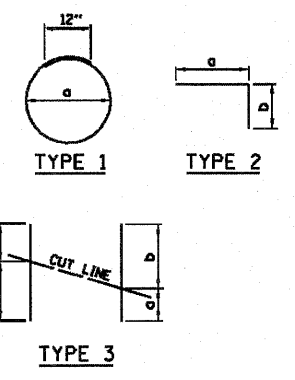
PIPE DIA	DIMENSIONS														NO. OF SPACES	CONCRETE CLASS 51 CU. YD.	REINF. STEEL LBS.
	H	L	M	N	P	S	T	U	V	W	A	E	B	C			
18"	3'-2"	18'-0"	3'-6"	1'-6"	4"	18'-3"	2"	2'-8"	3'-0"	4'-4"	2'-2"	1'-8"	--	5	1	4.1	340
24"	3'-8"	21'-0"	4'-3"	1'-8"	4"	21'-3 1/2"	2"	2'-8"	4'-0"	5'-4"	2'-8"	2'-2"	3	3	--	5.7	440
30"	4'-3"	24'-6"	4'-8"	1'-10"	6"	24'-10"	2"	2'-8"	5'-0"	6'-4"	2'-8"	1'-8"	5	--	3	7.8	593
36"	4'-9"	27'-6"	5'-0"	2'-0"	6"	27'-10 1/2"	2"	2'-8"	6'-0"	7'-4"	2'-8"	2'-2"	7	1	--	10.0	722
42"	5'-4"	31'-0"	5'-4"	2'-3"	6"	31'-5 1/4"	2"	3'-2"	6'-6"	7'-10"	2'-8"	2'-2"	5	5	--	12.3	874
48"	5'-11"	34'-6"	5'-8"	2'-6"	6"	34'-11 3/4"	2"	3'-2"	7'-0"	8'-4"	2'-8"	2'-2"	3	9	--	14.7	1025



NOTE:  
 'v' BARS ARE TO BEGIN AT THE PIPE END OF THE SLOPED EXTERIOR HEADWALLS. SEE DETAIL 1 FOR PLACING OF BARS AROUND WALL OPENING.  
 \*\* CUT BARS IN FIELD TO FIT MIN. 2" CLEARANCE



NOTE:  
 'd' BARS, 'v' BARS AND 'w' BARS SHALL BE BENT OR DIPPED AS REQUIRED, AROUND THE WALL OPENING. 'h' BARS SHALL BE BENT OR CUT AS REQUIRED, AROUND THE OPENING.



NOTES:  
 1. THE 'v' BARS, TYPE 3, SHALL BE ORDERED FULL LENGTH AND CUT IN THE FIELD. THE REMAINING PORTION OF THE 'v' BARS SHALL BE USED IN THE OTHER WALL. THE LONG LEG OF THE 'd' BARS AND THE 'w' BARS SHALL BE VERTICAL.  
 2. THE LONG LEG OF THE 'd' AND 'w' BARS SHALL BE VERTICAL.  
 3. QUANTITIES ON THIS DRAWING ARE BASED ON THE CAST-IN-PLACE DESIGN.  
 4. "STR." = STRAIGHT BAR.  
 5. ALL REINFORCING BARS ARE #4 BARS.  
 6. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:4 SLOPE

PIPE DIA	NO. 4 REINFORCING BARS				
	MARK	TYPE	NO. REQ'D.	LENGTH	a b
18"	o18	1	1	8'-7"	2'-5"
	d18	2	30	2'-3"	1'-6"
	h18	STR.	8	17'-8"	9"
	n18	2	5	3'-0"	2'-0"
	u18	STR.	19	4'-0"	1'-0"
	w18	STR.	4	3'-0"	1'-0"
24"	o24	1	1	10'-5"	3'-0"
	d24	2	35	2'-3"	1'-6"
	h24	STR.	8	13'-8"	9"
	n24	2	6	3'-0"	2'-0"
	u24	STR.	22	5'-0"	1'-0"
	w24	STR.	5	3'-6"	1'-0"
30"	o30	1	1	11'-9"	3'-5"
	d30	2	42	2'-3"	1'-6"
	h30	STR.	10	16'-0"	9"
	n30	2	7	3'-0"	2'-0"
	u30	STR.	24	6'-0"	1'-0"
	w30	STR.	6	4'-1"	1'-0"
36"	o36	1	1	13'-7"	4'-0"
	d36	2	47	2'-3"	1'-6"
	h36	STR.	10	18'-0"	9"
	n36	2	8	3'-0"	2'-0"
	u36	STR.	27	7'-0"	1'-0"
	w36	STR.	7	4'-7"	1'-0"
42"	o42	1	1	15'-5"	4'-7"
	d42	2	52	2'-3"	1'-6"
	h42	STR.	12	20'-4"	9"
	n42	2	8	3'-6"	2'-6"
	u42	STR.	30	7'-6"	1'-0"
	w42	STR.	8	5'-2"	1'-0"
48"	o48	1	1	17'-3"	5'-2"
	d48	2	56	2'-3"	1'-6"
	h48	STR.	12	22'-8"	9"
	n48	2	9	3'-6"	2'-6"
	u48	STR.	33	8'-0"	1'-0"
	w48	STR.	8	5'-9"	1'-0"

REINFORCING BAR SCHEDULE FOR ONE HEADWALL TYPE III 1:6 SLOPE

PIPE DIA	NO. 4 REINFORCING BARS				
	MARK	TYPE	NO. REQ'D.	LENGTH	a b
18"	o18	1	1	8'-7"	2'-5"
	d18	2	43	2'-3"	1'-6"
	h18	STR.	8	17'-8"	9"
	n18	2	5	3'-0"	2'-0"
	u18	STR.	25	4'-0"	1'-0"
	w18	STR.	4	3'-0"	1'-0"
24"	o24	1	1	10'-5"	3'-0"
	d24	2	50	2'-3"	1'-6"
	h24	STR.	8	20'-8"	9"
	n24	2	6	3'-0"	2'-0"
	u24	STR.	29	5'-0"	1'-0"
	w24	STR.	5	3'-6"	1'-0"
30"	o30	1	1	11'-9"	3'-5"
	d30	2	58	2'-3"	1'-6"
	h30	STR.	10	24'-2"	9"
	n30	2	7	3'-0"	2'-0"
	u30	STR.	33	6'-0"	1'-0"
	w30	STR.	6	4'-1"	1'-0"
36"	o36	1	1	13'-7"	4'-0"
	d36	2	65	2'-3"	1'-6"
	h36	STR.	10	27'-2"	9"
	n36	2	8	3'-0"	2'-0"
	u36	STR.	37	7'-0"	1'-0"
	w36	STR.	7	4'-7"	1'-0"
42"	o42	1	1	15'-5"	4'-7"
	d42	2	72	2'-3"	1'-6"
	h42	STR.	12	30'-8"	9"
	n42	2	8	3'-6"	2'-6"
	u42	STR.	40	7'-6"	1'-0"
	w42	STR.	8	5'-2"	1'-0"
48"	o48	1	1	17'-3"	5'-2"
	d48	2	80	2'-3"	1'-6"
	h48	STR.	12	34'-2"	9"
	n48	2	9	3'-6"	2'-6"
	u48	STR.	45	8'-0"	1'-0"
	w48	STR.	8	5'-9"	1'-0"

**Illinois Tollway**  
 Open Roads for a Faster Future

HEADWALL TYPE III  
 18"-24"-30"-36"-42"-48"  
 FOR 1:4, 1:6 AND 1:10 SLOPES

STANDARD B6-02

GRATE DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III END ENTRANCE 1:4 SLOPE

INSIDE PIPE DIAMETER	GRATES		BARS FOR ONE GRATE				HEADWALL GRATES (LBS.)	
	NUMBER REQUIRED	TYPE REQ'D.	BAR NO. 1		BAR NO. 2		EACH GRATE	TOTAL
			BARS REQ'D.	LENGTH	BARS REQ'D.	LENGTH		
18"	2	B	2	3'-7"	5	1'-10 1/2"	53	154
	1	C	2	3'-7"	5	1'-4 1/2"	48	
24"	4	B	2	4'-7"	7	1'-10 1/2"	69	276
	-	-	-	-	-	-	-	
30"	4	A	2	5'-7"	9	2'-4 1/2"	94	376
	-	-	-	-	-	-	-	
36"	5	B	2	6'-7"	11	1'-10 1/2"	103	608
	1	C	2	6'-7"	11	1'-4 1/2"	93	
42"	5	A	2	7'-1"	12	2'-4 1/2"	121	705
	1	C	2	7'-1"	12	1'-4 1/2"	100	
48"	7	B	2	7'-7"	13	1'-10 1/2"	119	941
	1	C	2	7'-7"	13	1'-4 1/2"	108	

GRATE DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III END ENTRANCE 1:6 SLOPE

INSIDE PIPE DIAMETER	GRATES		BARS FOR ONE GRATE				HEADWALL GRATES (LBS.)	
	NUMBER REQUIRED	TYPE REQ'D.	BAR NO. 1		BAR NO. 2		EACH GRATE	TOTAL
			BARS REQ'D.	LENGTH	BARS REQ'D.	LENGTH		
18"	2	B	2	3'-7"	5	1'-10 1/2"	53	250
	3	C	2	3'-7"	5	1'-4 1/2"	48	
24"	5	A	2	4'-7"	7	2'-4 1/2"	75	375
	-	-	-	-	-	-	-	
30"	6	B	2	5'-7"	9	1'-10 1/2"	86	672
	2	C	2	5'-7"	9	1'-4 1/2"	78	
36"	4	A	2	6'-7"	11	2'-4 1/2"	112	860
	4	B	2	6'-7"	11	1'-10 1/2"	103	
42"	5	A	2	7'-1"	12	2'-4 1/2"	121	1126
	4	C	2	7'-1"	12	1'-4 1/2"	100	
48"	8	A	2	7'-7"	13	2'-4 1/2"	130	1278
	2	B	2	7'-7"	13	1'-10 1/2"	119	

GRATE DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III END ENTRANCE 1:10 SLOPE

INSIDE PIPE DIAMETER	GRATES		BARS FOR ONE GRATE				HEADWALL GRATES (LBS.)	
	NUMBER REQUIRED	TYPE REQ'D.	BAR NO. 1		BAR NO. 2		EACH GRATE	TOTAL
			BARS REQ'D.	LENGTH	BARS REQ'D.	LENGTH		
18"	6	B	2	3'-7"	5	1'-10 1/2"	53	414
	2	C	2	3'-7"	5	1'-4 1/2"	48	
24"	9	B	2	4'-7"	7	1'-10 1/2"	69	747
	2	C	2	4'-7"	7	1'-4 1/2"	63	
30"	12	B	2	5'-7"	9	1'-10 1/2"	86	1110
	1	C	2	5'-7"	9	1'-4 1/2"	78	
36"	15	B	2	6'-7"	11	1'-10 1/2"	103	1535
	-	-	-	-	-	-	-	
42"	13	B	2	7'-1"	12	1'-10 1/2"	111	2043
	6	C	2	7'-1"	12	1'-4 1/2"	100	
48"	16	B	2	7'-7"	13	1'-10 1/2"	119	2443
	5	C	2	7'-7"	13	1'-4 1/2"	108	

GRATE DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III SIDE ENTRANCE 1:4 SLOPE

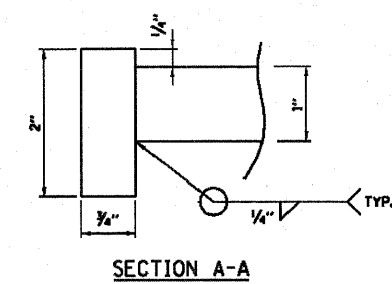
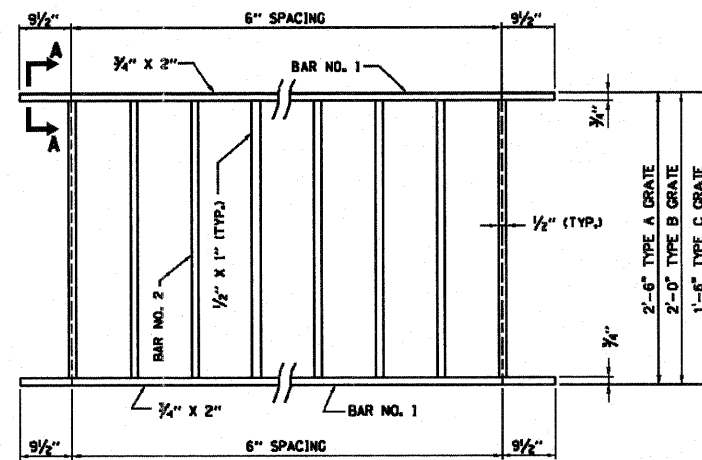
INSIDE PIPE DIAMETER	GRATES		BARS FOR ONE GRATE				HEADWALL GRATES (LBS.)	
	NUMBER REQUIRED	TYPE REQ'D.	BAR NO. 1		BAR NO. 2		EACH GRATE	TOTAL
			BARS REQ'D.	LENGTH	BARS REQ'D.	LENGTH		
18"	4	A	2	3'-7"	5	2'-4 1/2"	57	228
	-	-	-	-	-	-	-	
24"	5	B	2	4'-7"	7	1'-10 1/2"	69	408
	1	C	2	4'-7"	7	1'-4 1/2"	63	
30"	5	A	2	5'-7"	9	2'-4 1/2"	94	548
	1	C	2	5'-7"	9	1'-4 1/2"	78	
36"	7	B	2	6'-7"	11	1'-10 1/2"	103	814
	1	C	2	6'-7"	11	1'-4 1/2"	93	
42"	4	A	2	7'-1"	12	2'-4 1/2"	121	928
	4	B	2	7'-1"	12	1'-10 1/2"	111	
48"	4	A	2	7'-7"	13	2'-4 1/2"	130	1115
	5	B	2	7'-7"	13	1'-10 1/2"	119	

GRATE DIMENSIONS AND QUANTITIES IN ONE HEADWALL TYPE III SIDE ENTRANCE 1:6 SLOPE

INSIDE PIPE DIAMETER	GRATES		BARS FOR ONE GRATE				HEADWALL GRATES (LBS.)	
	NUMBER REQUIRED	TYPE REQ'D.	BAR NO. 1		BAR NO. 2		EACH GRATE	TOTAL
			BARS REQ'D.	LENGTH	BARS REQ'D.	LENGTH		
18"	6	B	2	3'-7"	5	1'-10 1/2"	53	414
	2	C	2	3'-7"	5	1'-4 1/2"	48	
24"	4	A	2	4'-7"	7	2'-4 1/2"	75	576
	4	B	2	4'-7"	7	1'-10 1/2"	69	
30"	6	A	2	5'-7"	9	2'-4 1/2"	94	876
	4	C	2	5'-7"	9	1'-4 1/2"	78	
36"	8	A	2	6'-7"	11	2'-4 1/2"	112	1102
	2	B	2	6'-7"	11	1'-10 1/2"	103	
42"	6	A	2	7'-1"	12	2'-4 1/2"	121	1392
	6	B	2	7'-1"	12	1'-10 1/2"	111	
48"	4	A	2	7'-7"	13	2'-4 1/2"	130	1602
	10	B	2	7'-7"	13	1'-10 1/2"	119	

NOTES:

- ALL STRUCTURAL STEEL SHALL BE AASHTO M270, GRADE 36.
- GALVANIZING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FOR PLACEMENT OF GRATES, SEE SHEET 1 OR 4 (OF 5) IN THIS SERIES.
- ALL TABLE DIMENSIONS AND QUANTITIES ARE FOR SINGLE PIPE CULVERT HEADWALLS. TO ADAPT ANY OF THESE TABLES FOR DOUBLE PIPE CULVERTS, DOUBLE THE NUMBER OF GRATES REQUIRED AND DOUBLE THE TOTAL WEIGHT (LBS.) OF THE GRATES.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).



SHEET 5 OF 5

**Illinois Tollway**  
Open Roads for a Faster Future

HEADWALL TYPE III  
18"-24"-30"-36"-42"-48"  
FOR 1:4, 1:6, AND 1:10 SLOPES

STANDARD B6-02

Rev. 1-9-12

APPROVED: *Paul Kovacs*  
CHIEF ENGINEER DATE 6-1-2009...

**GENERAL NOTES:**

- ALL NEW CONDUIT, UNIT DUCTS, DIRECT BURIAL CABLE, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD ARE TO BE SURVEYED AND STAKED BY THE CONTRACTOR. THESE LOCATIONS SHALL MEET WITH APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION AND CONSTRUCTION.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS. ELECTRICAL WORK IN THE AREA UNDER TOLLWAY JURISDICTION SHALL BE ALSO BE IN ACCORDANCE WITH THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS (TOLLWAY SUPPLEMENTAL SPECIFICATIONS GOVERN OVER IDOT STANDARD AND SUPPLEMENTAL SPECIFICATIONS).
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30 INCHES DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDER DRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID ACCORDING TO 109.04(B) OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- WHEREVER THE TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING AND/OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

**HIGHWAY STANDARD**

- 814001-02 HANDHOLES
- 825011-02 LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
- 830021 LIGHT POLE STEEL TENON TOP
- 836001-01 LIGHT POLE FOUNDATION

**TEMPORARY LIGHTING NOTES:**

**ROCKTON RD GENERAL NOTES:**

- ONLY THE POLES IDENTIFIED TO BE ACTIVE IN EACH STAGE SHALL BE CONNECTED TO THE CONTROLLER DURING THAT STAGE.
- CONTRACTOR TO LOCATE ALL EXISTING CONDUITS PRIOR TO INSTALLING TEMPORARY LIGHTING.
- CONTRACTOR TO VERIFY CIRCUITRY OF EXISTING LIGHTING PRIOR TO ALTERING THE EXISTING CONTROLLER OR INSTALLATION OF TEMPORARY LIGHTING.

**ROCKTON ROAD ENTRANCE RAMP:**

**STAGE 1A:**

- TEMPORARY RAMP BEING CONSTRUCTED DURING PHASE.
- TRAFFIC ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE.
- INSTALL TEMPORARY LIGHTING TO BE CONNECTED TO NEW 60A,120/240V, SINGLE PHASE CONTROLLER ADJACENT TO EXISTING CONTROLLER.
- INSTALL PROPOSED UNIT DUCT AND CONDUIT FROM THE CONTROLLER TO HANDHOLE (FOR CROSSING UNDER I-90) AT EAST SIDE OF ENTRANCE RAMP.
- CONNECT TEMPORARY LIGHTING TO HANDHOLE (FOR CROSSING UNDER I-90) AND GO AERIALY TO PROPOSED TEMPORARY LIGHT POLES.
- TEMPORARY LIGHTING TO BE READY, BUT NOT ACTIVATED, PRIOR TO BEGINNING OF STAGE 1B.

**STAGE 1B:**

- WHEN THE TRAFFIC IS MOVED TO THE TEMPORARY RAMP, TURN OFF THE EXISTING LIGHTS FOR THE ENTRANCE RAMP AND ACTIVATE THE TEMPORARY LIGHTING.
- PROPOSED LIGHTING TO BE INSTALLED DURING THIS STAGE AND OPERATIONAL, BUT NOT ACTIVATED, PRIOR TO BEGINNING STAGE 2A.

**STAGE 2A:**

- WHEN TRAFFIC IS MOVED TO PROPOSED RAMP, ACTIVATE THE PROPOSED LIGHTING AND REMOVE THE TEMPORARY LIGHTING.

**ROCKTON ROAD EXIT RAMP:**

**STAGE 1A:**

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE.
- INSTALL TEMPORARY LIGHTING TO BE CONNECTED TO NEW 60A,120/240V, SINGLE PHASE CONTROLLER ADJACENT TO EXISTING CONTROLLER.
- INSTALL PROPOSED UNIT DUCT AND CONDUIT FROM THE CONTROLLER TO HANDHOLE (FOR CROSSING UNDER I-90) AT WEST SIDE OF EXIT RAMP.
- CONNECT TEMPORARY LIGHTING TO HANDHOLE (FOR CROSSING UNDER I-90) AND GO AERIALY TO PROPOSED TEMPORARY LIGHT POLES.
- TEMPORARY LIGHTING TO BE READY, BUT NOT ACTIVATED, PRIOR TO BEGINNING OF STAGE 1B.

**TEMPORARY LIGHTING NOTES (CONT.):**

**STAGE 1B:**

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT.
- WHEN TEMPORARY LIGHTING IS ACTIVATED FOR ROCKTON ROAD ENTRANCE RAMP, ACTIVATE THE TEMPORARY LIGHTING FOR ROCKTON ROAD EXIT RAMP SO THAT EXISTING CONTROLLER CAN BE REMOVED FROM SERVICE.
- TEMPORARY RAMP IS TO BE CONSTRUCTED DURING THIS STAGE.

**STAGE 2A & 2B:**

- TRAFFIC IS TO BE MOVED TO TEMPORARY RAMP.
- TEMPORARY LIGHTING TO REMAIN IN PLACE THROUGHOUT STAGES.
- PROPOSED LIGHTING IS BEING INSTALLED DURING THESE STAGES AND READY FOR ACTIVATION PRIOR TO STAGE 3.

**STAGE 3:**

- WHEN TRAFFIC IS MOVED TO PROPOSED ALIGNMENT OF RAMP, ACTIVATE THE PROPOSED LIGHTING AND REMOVE THE TEMPORARY LIGHTING

**RAMP "C":**

**GENERAL NOTES:**

- ONLY THE POLES IDENTIFIED TO BE ACTIVE IN EACH STAGE SHALL BE CONNECTED TO THEIR RESPECTIVE CONTROLLER DURING THAT STAGE.
- CONTRACTOR TO LOCATE ALL EXISTING CONDUITS PRIOR TO INSTALLING TEMPORARY LIGHTING.
- CONTRACTOR TO VERIFY CIRCUITRY OF EXISTING LIGHTING PRIOR TO ALTERING THE EXISTING CONTROLLER OR INSTALLATION OF TEMPORARY LIGHTING.
- VISITOR CENTER IS TO BE CLOSED DURING CONSTRUCTION.

**STAGE 1A:**

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT UNTIL TEMPORARY LIGHTING IS INSTALLED NEAR VISITOR CENTER FOR THIS STAGE.
- THE EXISTING LIGHTING TO REMAIN IN PLACE AND OPERATIONAL AT RAMP C.
- TIE TEMPORARY LIGHTING NEAR VISITOR CENTER INTO VISITOR CENTER EXISTING LIGHTING CIRCUIT FOR POLES 1 THROUGH 5.
- EXISTING POLES 1 THROUGH 5 OF THE VISITOR CENTER LIGHTING SHALL BE DISCONNECTED PRIOR TO ACTIVATING THE TEMPORARY LIGHTING.
- INSTALL TEMPORARY LIGHTING FOR STAGE 1B.
- RAMP C TEMPORARY LIGHTING TO BE CONNECTED TO EXISTING CIRCUIT. DO CONNECT TEMPORARY LIGHTING TO CONTROLLER #2 UNTIL POLES 24 THROUGH 26 OF RAMP C HAVE BEEN DISCONNECTED FROM THE CONTROLLER.
- TEMPORARY LIGHTING TO BE IN PLACE AND READY FOR ACTIVATION PRIOR TO BEGINNING OF STAGE 1B.
- VISITOR CENTER LIGHT POLES 1 THROUGH 3 ARE TO BE RELOCATED DURING STAGES 1A AND 1B.

**STAGE 1B:**

- WHEN THE TRAFFIC IS MOVED TO THE TEMPORARY RAMP, DISCONNECT EXISTING LIGHT POLES NOS. 24 THROUGH 26 AND ACTIVATE THE TEMPORARY LIGHTING.
- POLES NOS. 24 AND 25 ARE TO BE RELOCATED AND INSTALLED DURING THIS STAGE AND READY FOR ACTIVATION, BUT NOT ACTIVATED, PRIOR TO BEGINNING STAGE 2A.
- REMOVE TEMPORARY LIGHTING NEAR THE VISITOR CENTER.

**STAGE 2A:**

- WHEN TRAFFIC IS MOVED TO PROPOSED RAMP, DISCONNECT THE STAGE 1B RAMP C TEMPORARY LIGHTING AND RECONNECT LIGHT POLE NOS. 24 THROUGH 26.
- REMOVE THE RAMP C TEMPORARY LIGHTING.

**RAMP "B":**

**STAGES 1A & 1B:**

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE UNTIL TEMPORARY LIGHTING CAN BE INSTALLED DURING STAGE 2A.
- TEMPORARY LIGHTING TO BE INSTALLED BUT NOT ACTIVATED IN STAGE 1.

**STAGE 2A:**

- TEMPORARY LIGHTING TO BE CONNECTED TO EXISTING CIRCUIT IN STAGE 2A.
- EXISTING POLES 18, 19, 20 AND 23 OF RAMP B ARE TO BE DISCONNECTED FROM THE CONTROLLER IN THIS STAGE AND TEMPORARY POLES TB-1 THROUGH 5 ARE TO BE CONNECTED TO THE CONTROLLER AFTER THE IDENTIFIED EXISTING POLES HAVE BEEN DISCONNECTED FROM THE CONTROLLER.
- WHEN TRAFFIC IS MOVED TO INSIDE ALIGNMENT, THE TEMPORARY LIGHTING SHALL BE ACTIVATED.
- PROPOSED LIGHTING IS BEING INSTALLED DURING STAGES 2A AND 2B, READY FOR ACTIVATION PRIOR TO STAGE 3.

**STAGE 2B:**

- TEMPORARY LIGHTING FOR THIS STAGE CONSISTS OF EXISTING POLES 16, 17, 21, 22 AND 23 AND TEMPORARY LIGHT POLES TB-1 THROUGH TB-3, TB-6 AND TB-7.
- TEMPORARY LIGHT POLES TB-4 AND TB-5 WILL BE DISCONNECTED FROM THE CONTROLLER PRIOR TO ACTIVATING THE STAGE 2B TEMPORARY LIGHTING.
- REMOVE TEMPORARY LIGHT POLES TB-4 AND TB-5.

**STAGE 3:**

- WHEN TRAFFIC IS MOVED TO PROPOSED ALIGNMENT OF RAMP, DISCONNECT THE STAGE 2B TEMPORARY LIGHTING FROM THE CONTROLLER AND ACTIVATE THE PROPOSED LIGHTING.
- REMOVE THE TEMPORARY LIGHTING.

**LEGEND**

- 1 UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- 2 UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE
- 3 UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE
- 4 AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE
- 5 AERIAL CABLE, 4-1/C NO.2/0 WITH MESSENGER WIRE
- 6 AERIAL CABLE, 4-1/C NO.2 WITH MESSENGER WIRE
- 7 AERIAL CABLE, 2-1/C NO.6 WITH MESSENGER WIRE
- 8 UNIT DUCT, WITH 4-1/C NO.2 AND 1/C NO.8 GROUND, 600V (XLP-TYPE USE) 2" DIA. CNC
- 9 AERIAL CABLE, 2-1/C NO.2/0 WITH MESSENGER WIRE
- 10 UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- 11 UNIT DUCT, 600V 2-1C NO.8, 1C NO.8 GROUND, (XLP-TYPE USE) 2" DIA. CNC
- 12 UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC
- EXISTING LIGHT POLE TO REMAIN (UNLESS NOTED OTHERWISE)
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 40 FT, CLASS 4 (UNLESS NOTED OTHERWISE)
- PROPOSED HAND HOLE
- PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT MH WITH (1) 250W HPS VAPOR MM FIXTURE (UNLESS NOTED OTHERWISE)
- PROPOSED TEMPORARY BREAKAWAY POLE 45 FT M.H. TENON MOUNT WITH 250W HPS MM FIXTURE (UNLESS NOTED OTHERWISE)
- PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 250W HPS VAPOR MM FIXTURE
- PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 400W HPS VAPOR MM FIXTURE
- PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT MH, WITH (1) 400W HPS VAPOR FIXTURE, 8 FEET MAST ARM

**SCHEDULE OF QUANTITIES**

PAY ITEM	DESCRIPTION	UNIT	TOTAL
80300100	LOCATING UNDERGROUND CABLE	FOOT	4,755
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	325
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	374
81400100	HANDHOLE	EACH	2
81603025	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,259
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2,576
81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE	FOOT	2,315
81603095	UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE	FOOT	904
81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	265
81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	385
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	26
82104000	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT	EACH	4
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
83062730	LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT	EACH	30
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	195
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	120
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	61
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20
84200804	REMOVAL OF POLE FOUNDATION	EACH	20
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
#2000241	TEMPORARY LIGHTING SYSTEM, LOCATION 1	L SUM	1
#2000242	TEMPORARY LIGHTING SYSTEM, LOCATION 2	L SUM	1
#2000243	TEMPORARY LIGHTING SYSTEM, LOCATION 3	L SUM	1
#2000244	TEMPORARY LIGHTING SYSTEM, LOCATION 4	L SUM	1
#2000245	TEMPORARY LIGHTING SYSTEM, LOCATION 5	L SUM	1
JS814001	HANDHOLE, TOLLWAY	EACH	5
JS816031	UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	2,392
JS816034	UNIT DUCT, WITH 2-1/C NO. 8 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	762
JS816035	UNIT DUCT, WITH 4-1/C NO. 2 AND 1C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	387
JS819001	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2,086
JS821003	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
JS821014	SIGN LUMINAIRE, 85 WATT INDUCTION	EACH	10
JS823001	SIGN STRUCTURE WIRING, OVERHEAD SIGN	EACH	2
JS823003	SIGN STRUCTURE WIRING, BRIDGE MOUNTED SIGN	EACH	1
JS830027	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	7
JS842080	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	3
JS842090	REMOVAL OF SIGN LUMINAIRE	EACH	10
JS842105	POLE FOUNDATION, REMOVED	EACH	2
JS846001	MAINTAIN LIGHTING SYSTEM	L SUM	1



USER NAME = _USERNAME_	DESIGNED - BLM	REVISED -
	DRAWN - JPW	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - BLM	REVISED -
PLCT DATE = 12/22/2011	DATE - 12/22/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

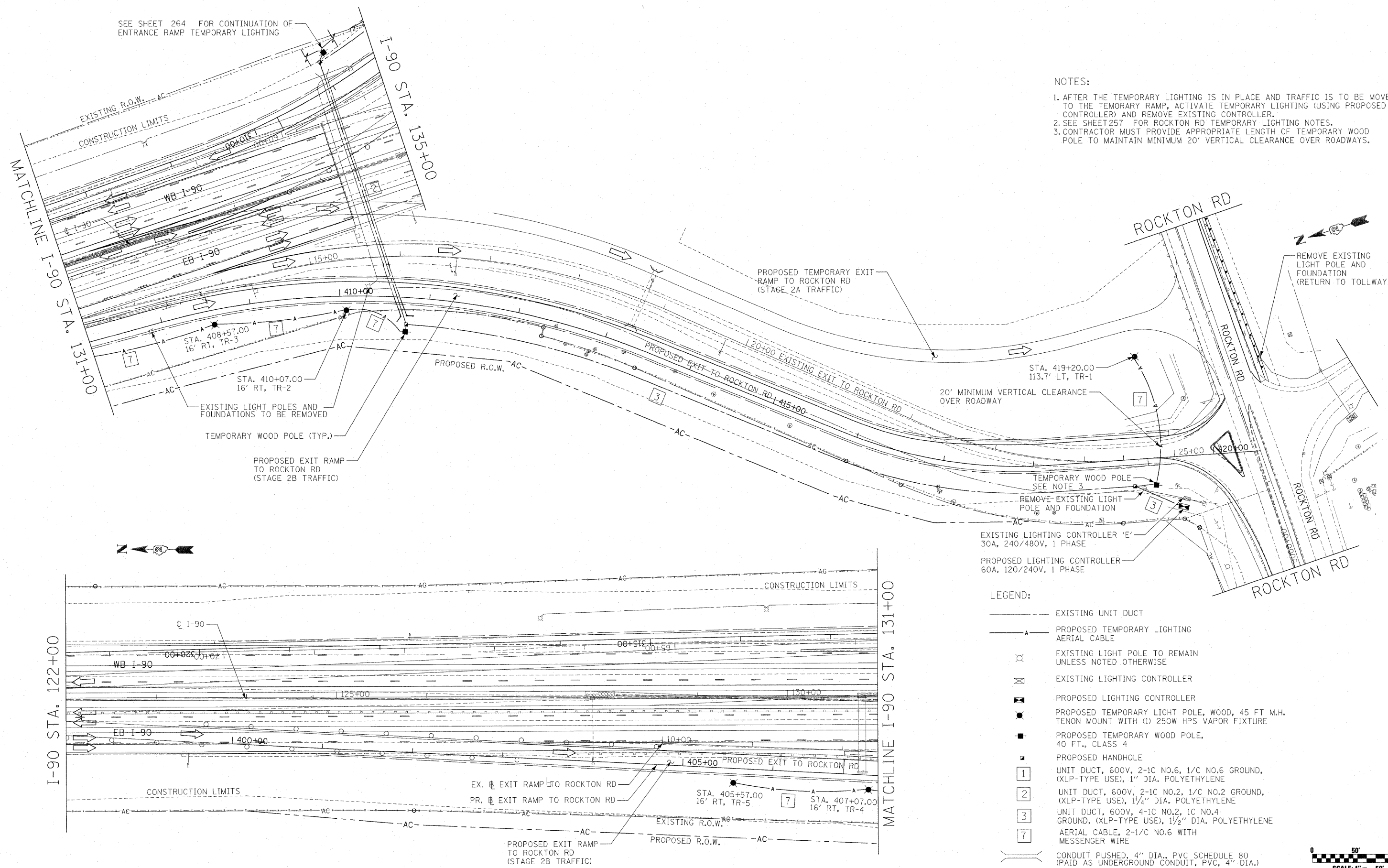
**LIGHTING  
GENERAL NOTES AND LEGEND**

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

Rev. 1-9-12

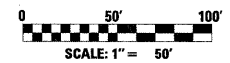
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1)R	WINNEBAGO	510	257
			CONTRACT NO. 64C29	
ILLINOIS FED. AID PROJECT				

SEE SHEET 264 FOR CONTINUATION OF ENTRANCE RAMP TEMPORARY LIGHTING



- NOTES:
1. AFTER THE TEMPORARY LIGHTING IS IN PLACE AND TRAFFIC IS TO BE MOVED TO THE TEMPORARY RAMP, ACTIVATE TEMPORARY LIGHTING (USING PROPOSED CONTROLLER) AND REMOVE EXISTING CONTROLLER.
  2. SEE SHEET 257 FOR ROCKTON RD TEMPORARY LIGHTING NOTES.
  3. CONTRACTOR MUST PROVIDE APPROPRIATE LENGTH OF TEMPORARY WOOD POLE TO MAINTAIN MINIMUM 20' VERTICAL CLEARANCE OVER ROADWAYS.

- LEGEND:
- EXISTING UNIT DUCT
  - A- PROPOSED TEMPORARY LIGHTING AERIAL CABLE
  - ⊗ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
  - ⊗ EXISTING LIGHTING CONTROLLER
  - ⊗ PROPOSED LIGHTING CONTROLLER
  - PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT. M.H. TENON MOUNT WITH (1) 250W HPS VAPOR FIXTURE
  - PROPOSED TEMPORARY WOOD POLE, 40 FT., CLASS 4
  - PROPOSED HANDHOLE
  - 1 UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
  - 2 UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE
  - 3 UNIT DUCT, 600V, 4-1C NO.2, 1C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE
  - 7 AERIAL CABLE, 2-1/C NO.6 WITH MESSENGER WIRE
  - CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)



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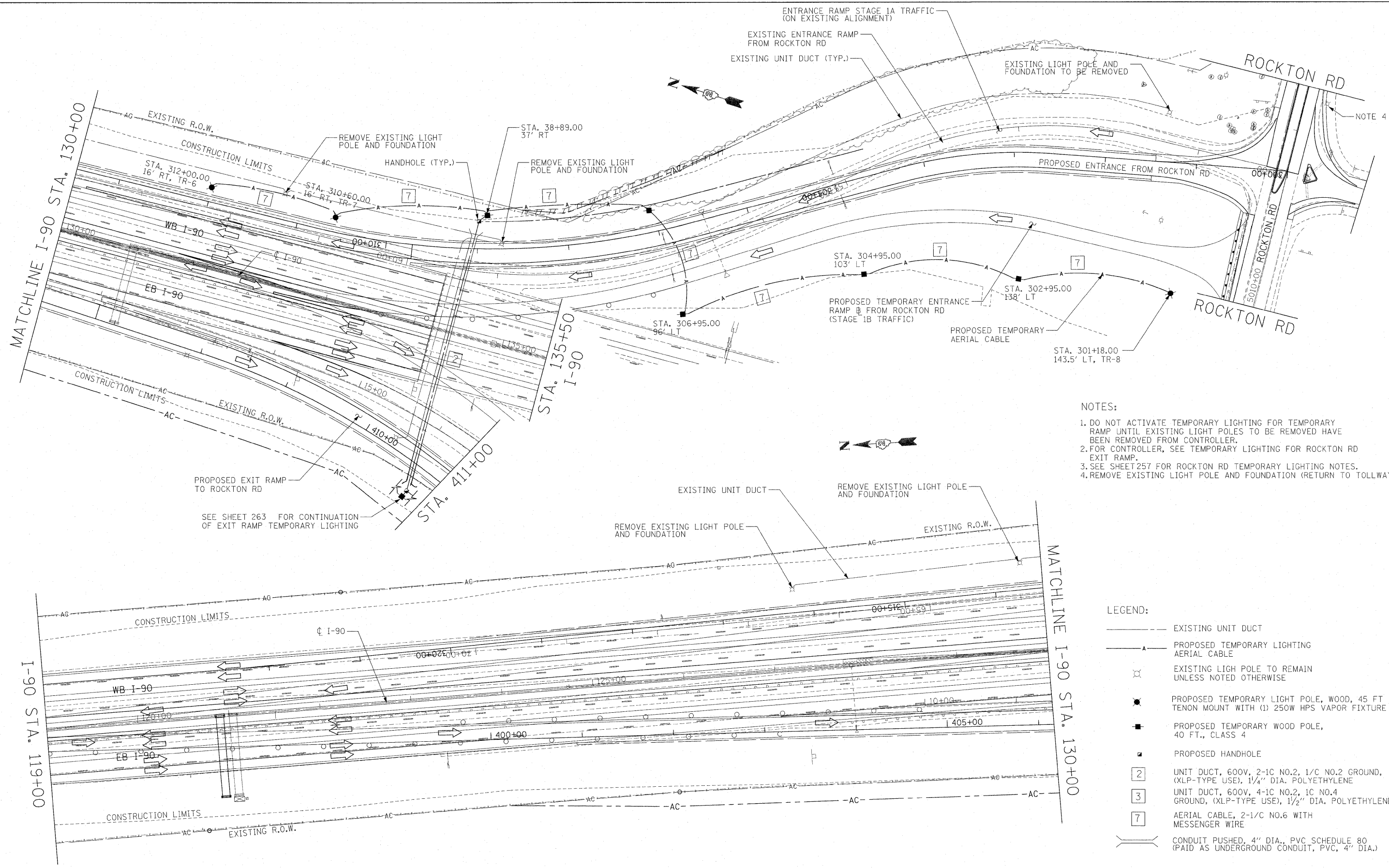
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PLLOT SCALE = 50.0000' / IN.	DRAWN - JPW	REVISED -
PLLOT DATE = 12/22/2011	CHECKED - BLM	REVISED -
	DATE - 12/22/11	REVISED -

**STATE OF ILLINOIS  
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**TEMPORARY LIGHTING PLAN  
ROCKTON RD EXIT RAMP**

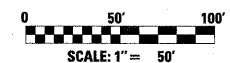
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	263
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

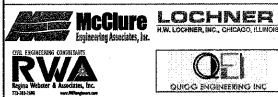


- NOTES:**
- DO NOT ACTIVATE TEMPORARY LIGHTING FOR TEMPORARY RAMP UNTIL EXISTING LIGHT POLES TO BE REMOVED HAVE BEEN REMOVED FROM CONTROLLER.
  - FOR CONTROLLER, SEE TEMPORARY LIGHTING FOR ROCKTON RD EXIT RAMP.
  - SEE SHEET 257 FOR ROCKTON RD TEMPORARY LIGHTING NOTES.
  - REMOVE EXISTING LIGHT POLE AND FOUNDATION (RETURN TO TOLLWAY)

- LEGEND:**
- EXISTING UNIT DUCT
  - PROPOSED TEMPORARY LIGHTING AERIAL CABLE
  - ⊗ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
  - PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT M.H. TENON MOUNT WITH (1) 250W HPS VAPOR FIXTURE
  - PROPOSED TEMPORARY WOOD POLE, 40 FT., CLASS 4
  - PROPOSED HANDHOLE
  - 2 UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE
  - 3 UNIT DUCT, 600V, 4-1C NO.2, 1C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE
  - 7 AERIAL CABLE, 2-1/C NO.6 WITH MESSENGER WIRE
  - CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)



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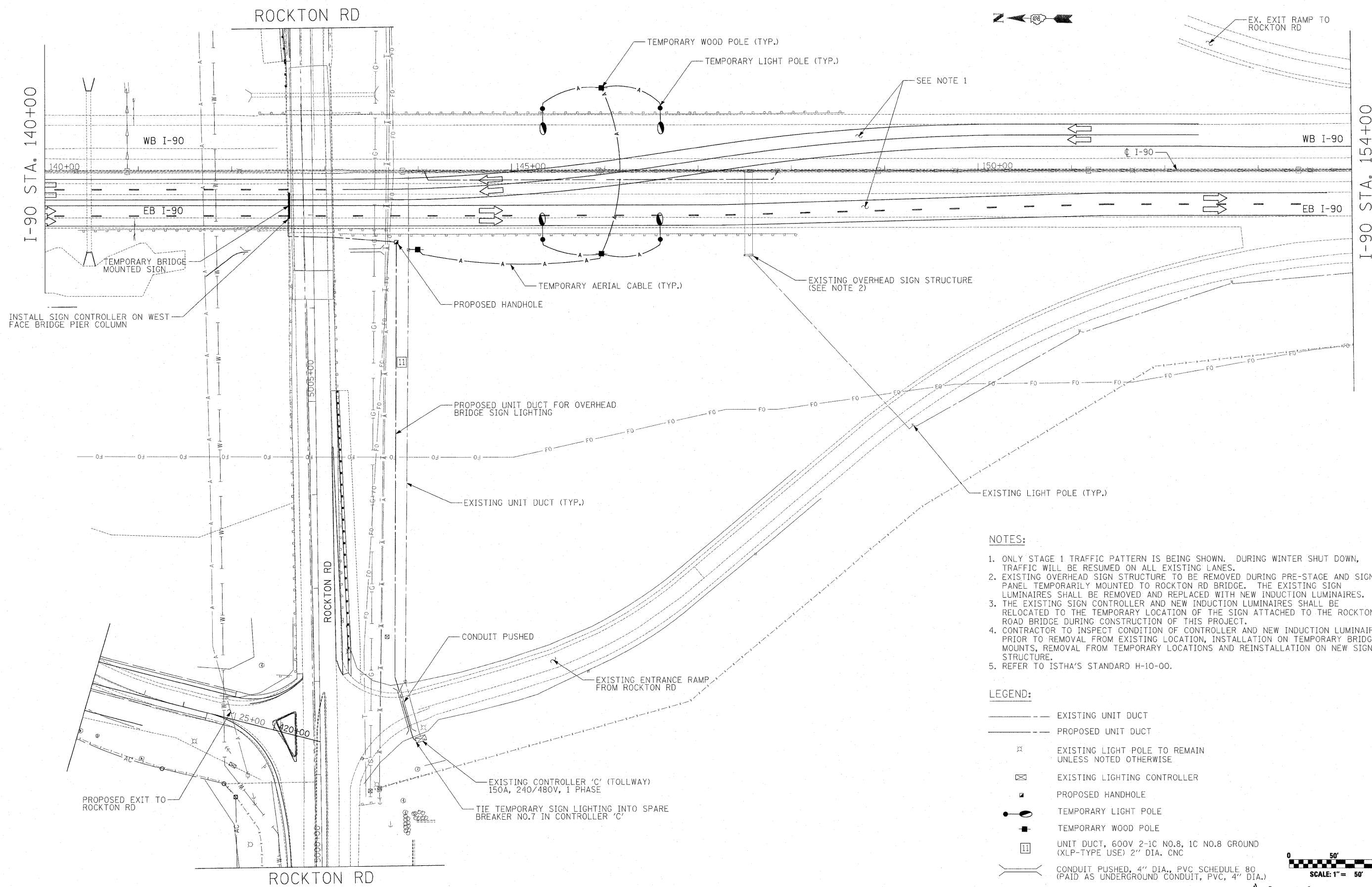
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DRAWN - JPW	REVISED -	
CHECKED - BLM	REVISED -	
DATE - 12/22/11	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN  
ROCKTON RD ENTRANCE RAMP**

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2)-1R	WINNEBAGO	510	264
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

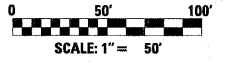


**NOTES:**

1. ONLY STAGE 1 TRAFFIC PATTERN IS BEING SHOWN. DURING WINTER SHUT DOWN, TRAFFIC WILL BE RESUMED ON ALL EXISTING LANES.
2. EXISTING OVERHEAD SIGN STRUCTURE TO BE REMOVED DURING PRE-STAGE AND SIGN PANEL TEMPORARILY MOUNTED TO ROCKTON RD BRIDGE. THE EXISTING SIGN LUMINAIRES SHALL BE REMOVED AND REPLACED WITH NEW INDUCTION LUMINAIRES.
3. THE EXISTING SIGN CONTROLLER AND NEW INDUCTION LUMINAIRES SHALL BE RELOCATED TO THE TEMPORARY LOCATION OF THE SIGN ATTACHED TO THE ROCKTON ROAD BRIDGE DURING CONSTRUCTION OF THIS PROJECT.
4. CONTRACTOR TO INSPECT CONDITION OF CONTROLLER AND NEW INDUCTION LUMINAIRES PRIOR TO REMOVAL FROM EXISTING LOCATION, INSTALLATION ON TEMPORARY BRIDGE MOUNTS, REMOVAL FROM TEMPORARY LOCATIONS AND REINSTALLATION ON NEW SIGN STRUCTURE.
5. REFER TO ISTHA'S STANDARD H-10-00.

**LEGEND:**

- EXISTING UNIT DUCT
- - - PROPOSED UNIT DUCT
- ⊠ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
- ⊠ EXISTING LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- TEMPORARY LIGHT POLE
- TEMPORARY WOOD POLE
- UNIT DUCT, 600V 2-1C NO.8, 1C NO.8 GROUND (XLP-TYPE USE) 2" DIA. CNC
- CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)



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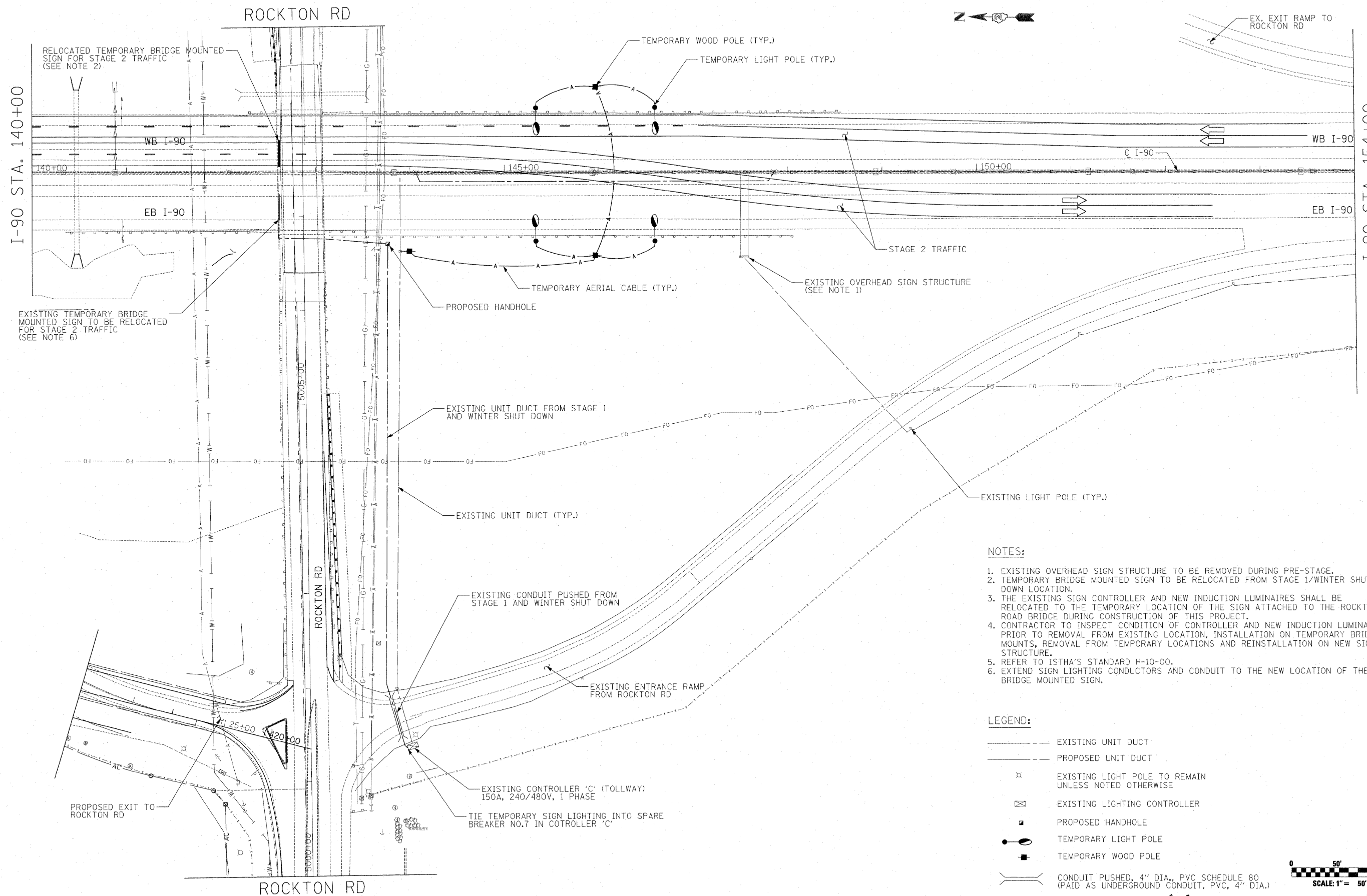
**McClure LOCHNER**  
Engineering Associates, Inc.  
**RWA**  
Engineering & Construction, Inc.  
**QEI**  
ENGINEERING INC.

USER NAME = USERNAME	DESIGNED - BLM	REVISED -
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PLOT DATE = 12/9/2011	CHECKED - BLM	REVISED -
	DATE - 10/14/11	REVISED -

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**TEMPORARY LIGHTING PLAN  
BRIDGE MOUNTED SIGN STRUCTURE STAGE 1 & WINTER SHUT DOWN**

F.A.I. RTE. 90	SECTION (X2-1R)	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 266
SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 64C29	
ILLINOIS FED. AID PROJECT				

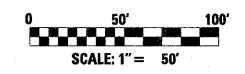


**NOTES:**

1. EXISTING OVERHEAD SIGN STRUCTURE TO BE REMOVED DURING PRE-STAGE.
2. TEMPORARY BRIDGE MOUNTED SIGN TO BE RELOCATED FROM STAGE 1/WINTER SHUT DOWN LOCATION.
3. THE EXISTING SIGN CONTROLLER AND NEW INDUCTION LUMINAIRES SHALL BE RELOCATED TO THE TEMPORARY LOCATION OF THE SIGN ATTACHED TO THE ROCKTON ROAD BRIDGE DURING CONSTRUCTION OF THIS PROJECT.
4. CONTRACTOR TO INSPECT CONDITION OF CONTROLLER AND NEW INDUCTION LUMINAIRES PRIOR TO REMOVAL FROM EXISTING LOCATION, INSTALLATION ON TEMPORARY BRIDGE MOUNTS, REMOVAL FROM TEMPORARY LOCATIONS AND REINSTALLATION ON NEW SIGN STRUCTURE.
5. REFER TO ISTHA'S STANDARD H-10-00.
6. EXTEND SIGN LIGHTING CONDUCTORS AND CONDUIT TO THE NEW LOCATION OF THE BRIDGE MOUNTED SIGN.

**LEGEND:**

- EXISTING UNIT DUCT
- - - PROPOSED UNIT DUCT
- ⊗ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
- ⊠ EXISTING LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- TEMPORARY LIGHT POLE
- TEMPORARY WOOD POLE
- CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)



**McClure LOCHNER**  
Engineering & Architecture, Inc.  
**RWA**  
Engineering & Architecture, Inc.  
**QEI**  
QUISO ENGINEERING INC.

USER NAME = .USERNAME.  
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DRAWN - JPW  
CHECKED - BLM  
DATE - 10/14/11

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

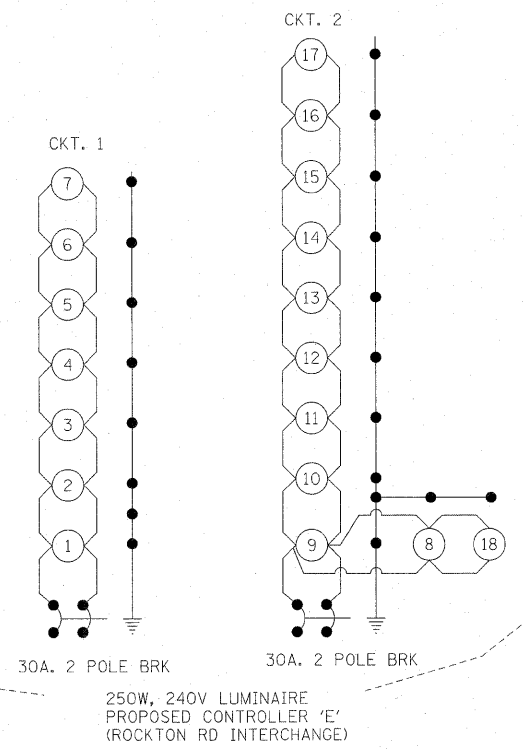
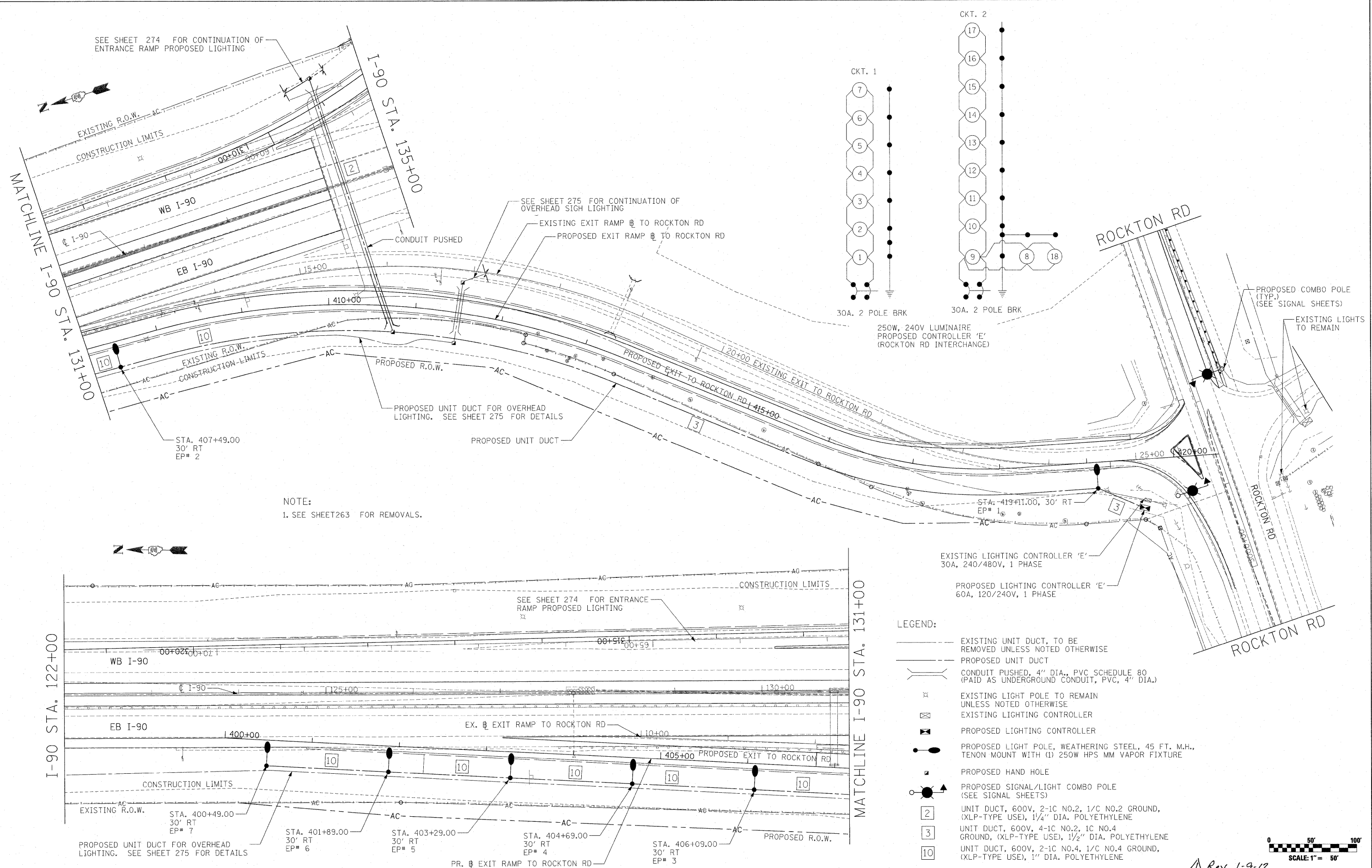
**TEMPORARY LIGHTING PLAN  
BRIDGE MOUNTED SIGN STRUCTURE STAGE 2**

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

Rev. 1-9-12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	267
CONTRACT NO. 64C29				

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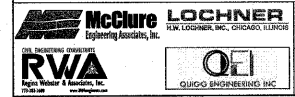


NOTE:  
1. SEE SHEET 263 FOR REMOVALS.

- LEGEND:
- EXISTING UNIT DUCT, TO BE REMOVED UNLESS NOTED OTHERWISE
  - PROPOSED UNIT DUCT
  - CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)
  - EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
  - EXISTING LIGHTING CONTROLLER
  - PROPOSED LIGHTING CONTROLLER
  - PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 250W HPS MM VAPOR FIXTURE
  - PROPOSED HAND HOLE
  - PROPOSED SIGNAL/LIGHT COMBO POLE (SEE SIGNAL SHEETS)
  - UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE
  - UNIT DUCT, 600V, 4-1C NO.2, 1C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE
  - UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE



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	DATE - 12/22/11	REVISED -

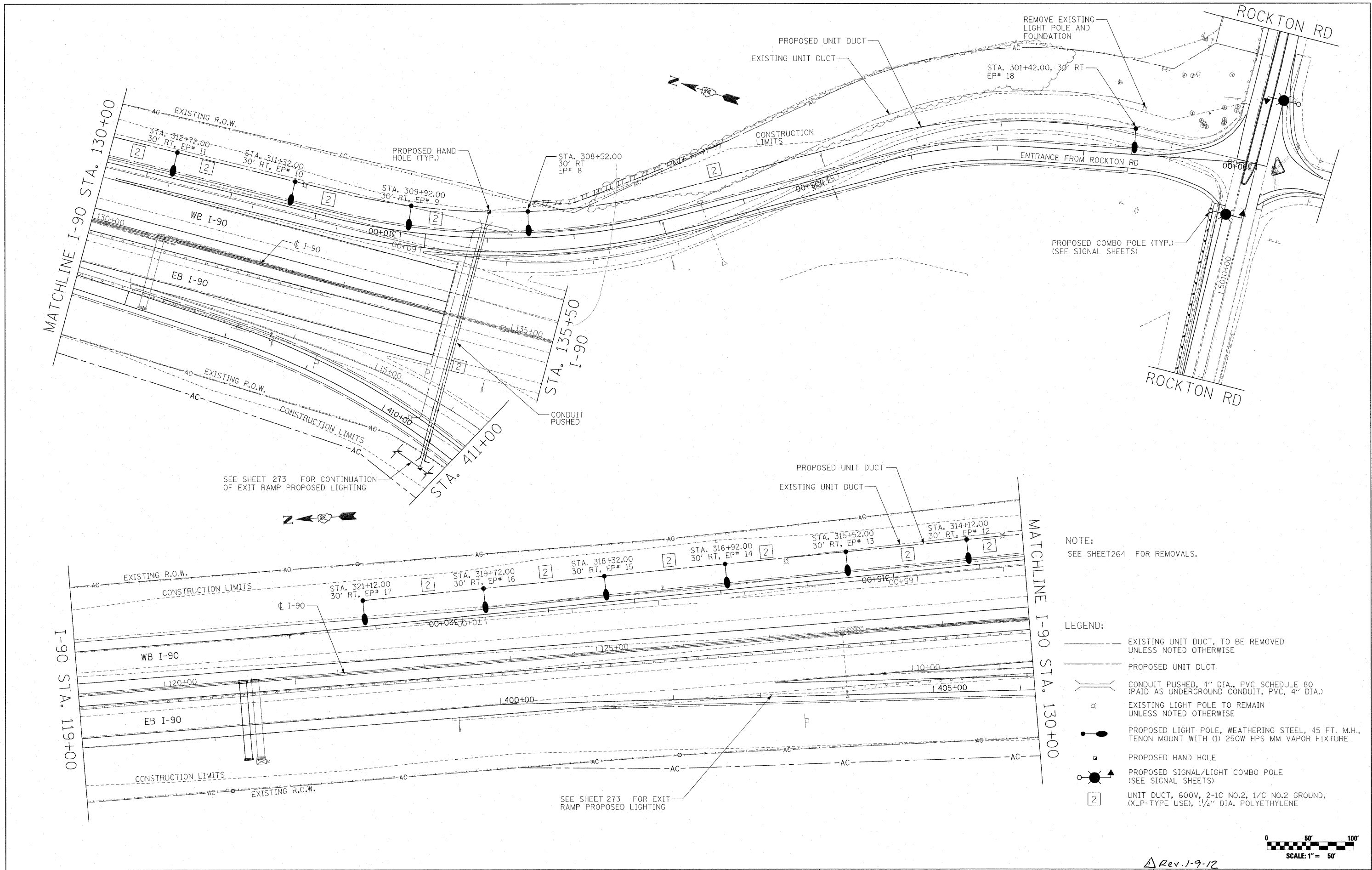
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
ROCKTON RD EXIT RAMP**

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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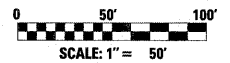
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	273
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	





NOTE:  
SEE SHEET 264 FOR REMOVALS.

- LEGEND:
- EXISTING UNIT DUCT, TO BE REMOVED UNLESS NOTED OTHERWISE
  - PROPOSED UNIT DUCT
  - CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)
  - EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
  - PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 250W HPS MM VAPOR FIXTURE
  - PROPOSED HAND HOLE
  - PROPOSED SIGNAL/LIGHT COMBO POLE (SEE SIGNAL SHEETS)
  - UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE



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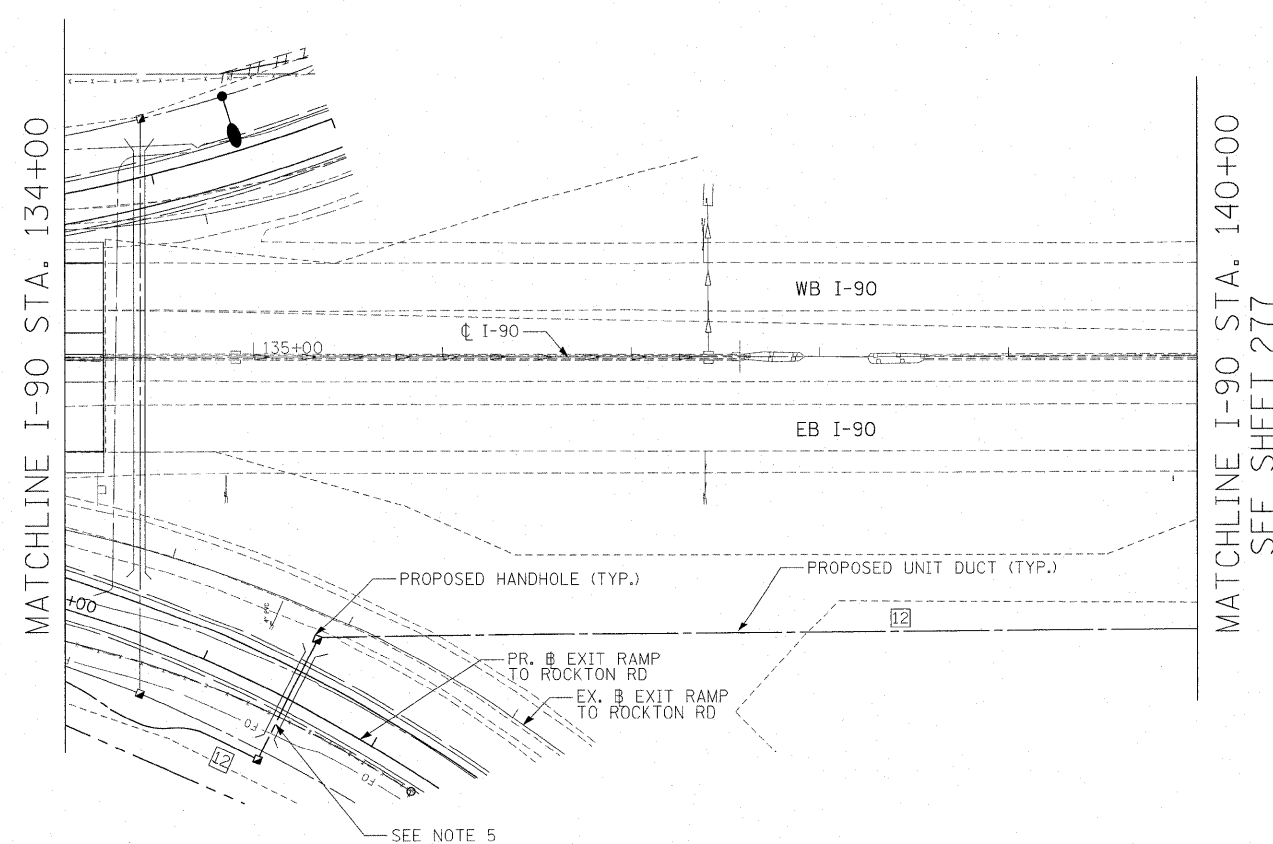
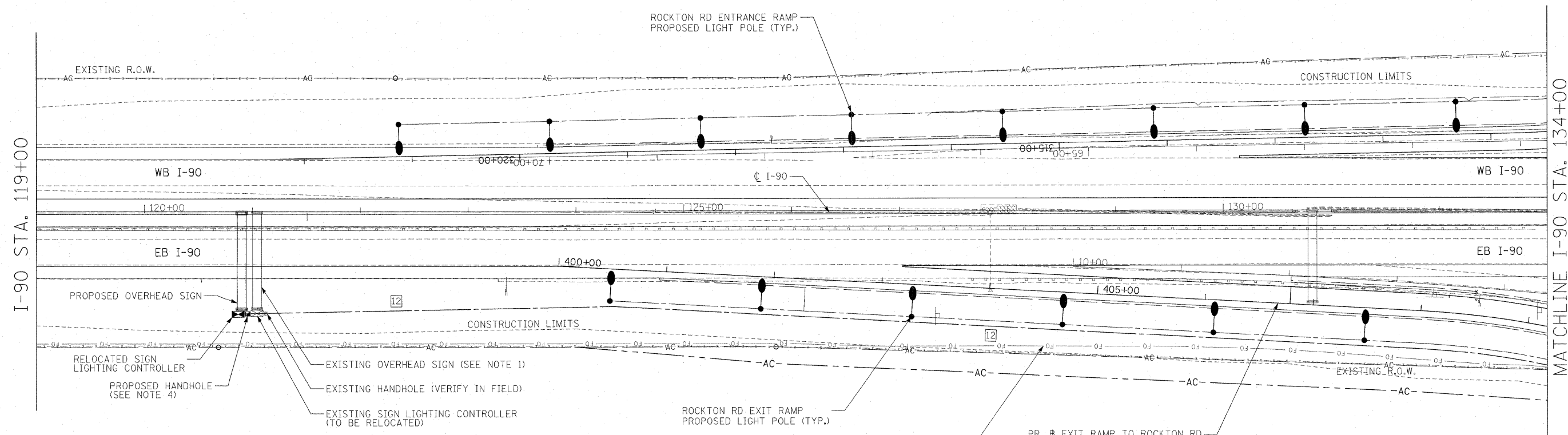
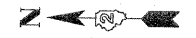
**McClure LOCHNER**  
Engineering Associates, Inc.  
**RVA**  
QUADRO ENGINEERING INC.

USER NAME = .USERNAME.	DESIGNED - BLM	REVISED -
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PLOT DATE = 12/22/2011	CHECKED - BLM	REVISED -
	DATE - 12/22/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

LIGHTING PLAN ROCKTON RD ENTRANCE RAMP			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2)-1R	WINNEBAGO	510	274
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

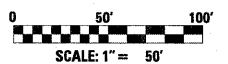


**NOTES:**

1. EXISTING OVERHEAD SIGN STRUCTURE TO BE REMOVED DURING PRE-STAGE.
2. THE RELOCATED SIGN WILL NOT BE LIGHTED DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORING THE SIGN LIGHTING CONTROLLER UNTIL SUCH TIME THAT THE SIGN PANELS AND NEW INDUCTION LUMINAIRES CAN BE INSTALLED ON THE NEW STRUCTURE.
3. CONTRACTOR TO INSPECT CONDITION OF SIGN CONTROLLER PRIOR TO REMOVAL FROM EXISTING LOCATION AND REINSTALLATION ON NEW SIGN STRUCTURE.
4. A QUANTITY FOR A NEW HANDHOLE IS INCLUDED. HOWEVER, THE EXISTING HANDHOLE CAN BE RELOCATED IF DIRECTED BY THE ENGINEER.
5. CONDUIT TO BE PUSHED AFTER PROPOSED ROCKTON RD EXIT RAMP IS CONSTRUCTED AND GRADING IS COMPLETED.

**LEGEND:**

- EXISTING UNIT DUCT
- - - PROPOSED UNIT DUCT
- ⊠ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
- ⊠ EXISTING HANDHOLE
- CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)
- PROPOSED LIGHT POLE
- ⊠ UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC
- ⊠ PROPOSED HANDHOLE



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**RWA**  
Engineering Associates, Inc.

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PLOT DATE = 12/9/2011	CHECKED - BLM	REVISED -
	DATE - 10/14/11	REVISED -

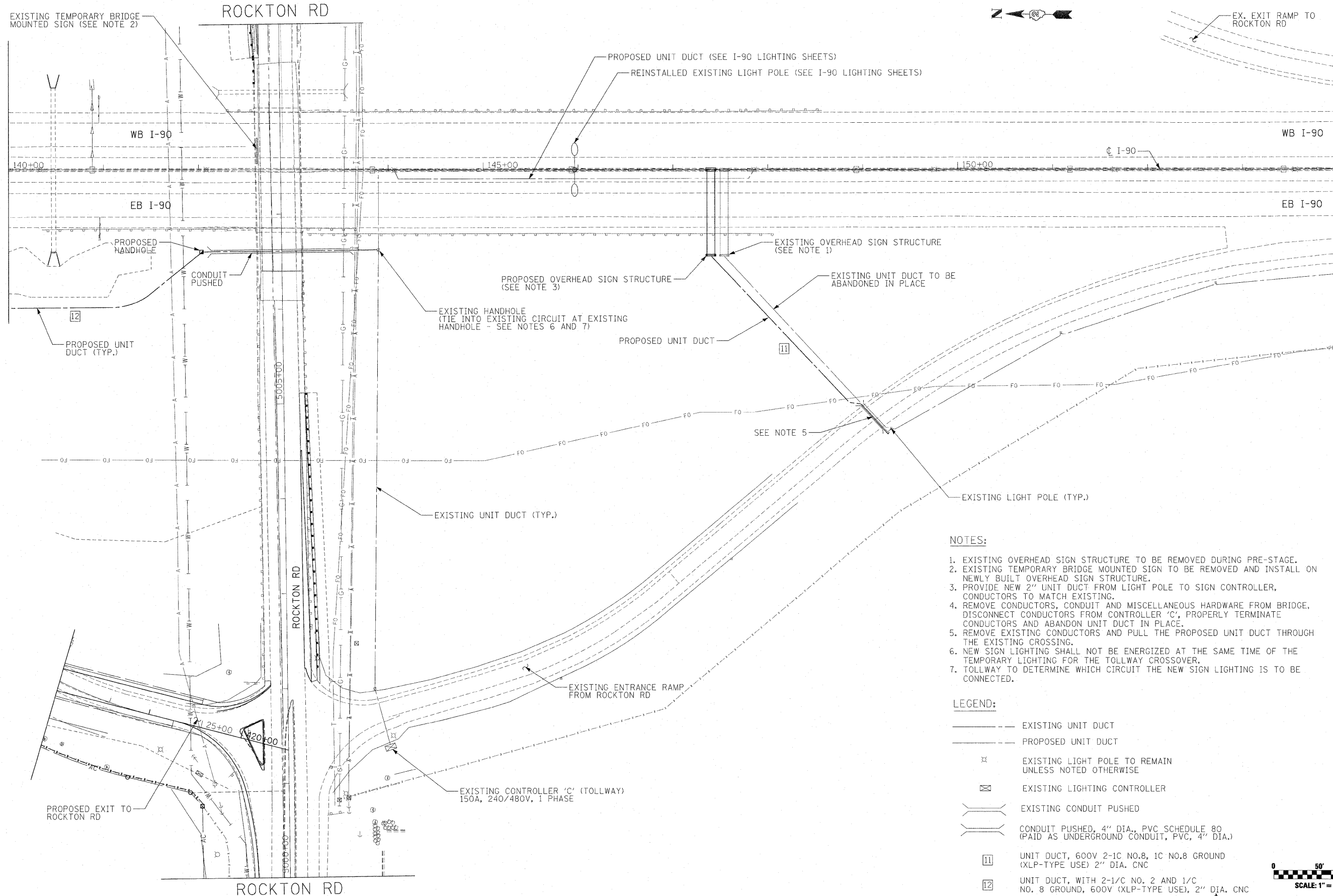
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
OVERHEAD SIGN STRUCTURE**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	275
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

MATCHLINE I-90 STA. 140+00  
SEE SHEET 275



**NOTES:**

1. EXISTING OVERHEAD SIGN STRUCTURE TO BE REMOVED DURING PRE-STAGE.
2. EXISTING TEMPORARY BRIDGE MOUNTED SIGN TO BE REMOVED AND INSTALL ON NEWLY BUILT OVERHEAD SIGN STRUCTURE.
3. PROVIDE NEW 2" UNIT DUCT FROM LIGHT POLE TO SIGN CONTROLLER, CONDUCTORS TO MATCH EXISTING.
4. REMOVE CONDUCTORS, CONDUIT AND MISCELLANEOUS HARDWARE FROM BRIDGE, DISCONNECT CONDUCTORS FROM CONTROLLER 'C', PROPERLY TERMINATE CONDUCTORS AND ABANDON UNIT DUCT IN PLACE.
5. REMOVE EXISTING CONDUCTORS AND PULL THE PROPOSED UNIT DUCT THROUGH THE EXISTING CROSSING.
6. NEW SIGN LIGHTING SHALL NOT BE ENERGIZED AT THE SAME TIME OF THE TEMPORARY LIGHTING FOR THE TOLLWAY CROSSOVER.
7. TOLLWAY TO DETERMINE WHICH CIRCUIT THE NEW SIGN LIGHTING IS TO BE CONNECTED.

**LEGEND:**

- EXISTING UNIT DUCT
- - - PROPOSED UNIT DUCT
- ⊠ EXISTING LIGHT POLE TO REMAIN UNLESS NOTED OTHERWISE
- ⊞ EXISTING LIGHTING CONTROLLER
- EXISTING CONDUIT PUSHED
- CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80 (PAID AS UNDERGROUND CONDUIT, PVC, 4" DIA.)
- Ⓜ UNIT DUCT, 600V 2-1C NO.8, 1C NO.8 GROUND (XLP-TYPE USE) 2" DIA. CNC
- Ⓜ UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC



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Engineering Associates, Inc.  
**RWA**  
Raymond W. Anderson & Associates, Inc.

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PLOT DATE = 12/9/2011

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DRAWN - JPW  
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DATE - 10/14/11

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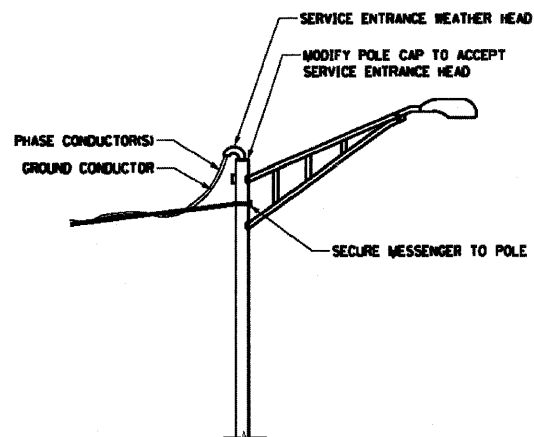
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
OVERHEAD SIGN STRUCTURE - TOLLWAY**

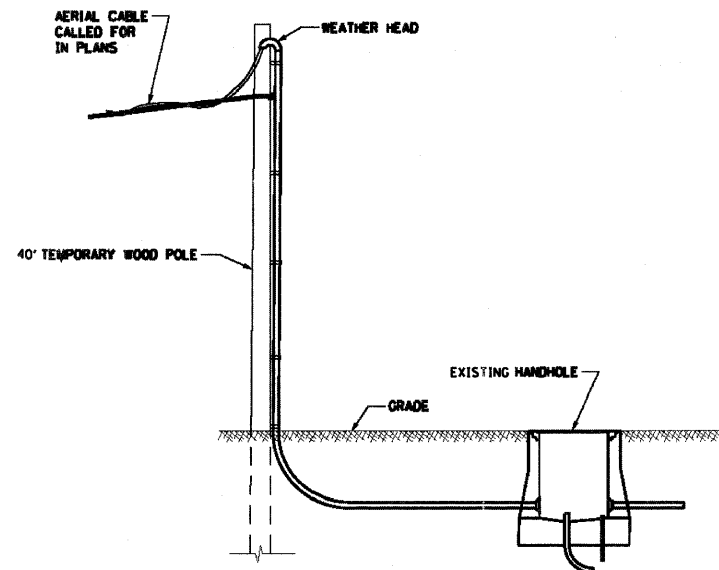
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	277
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

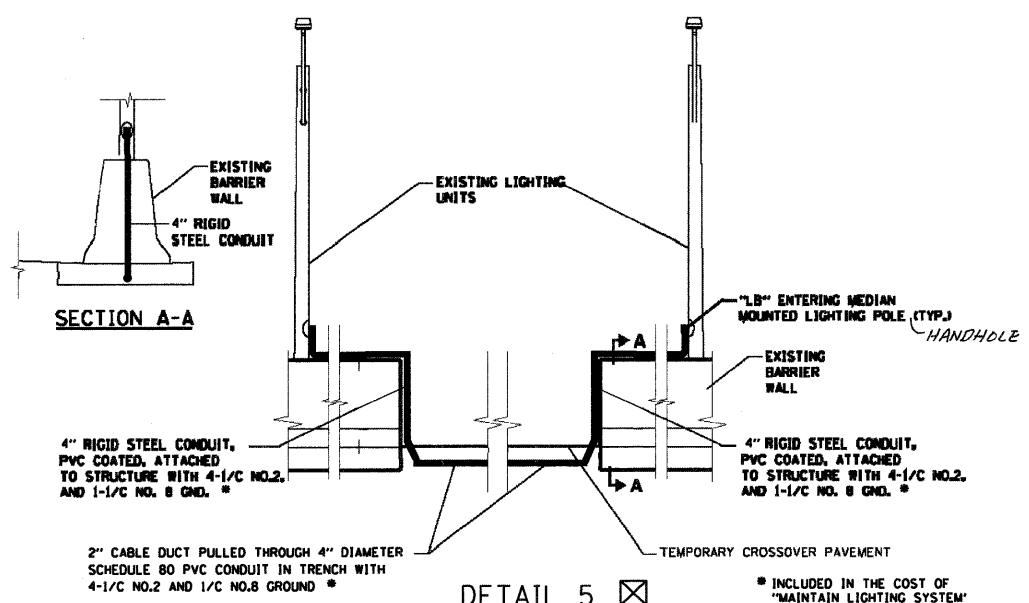
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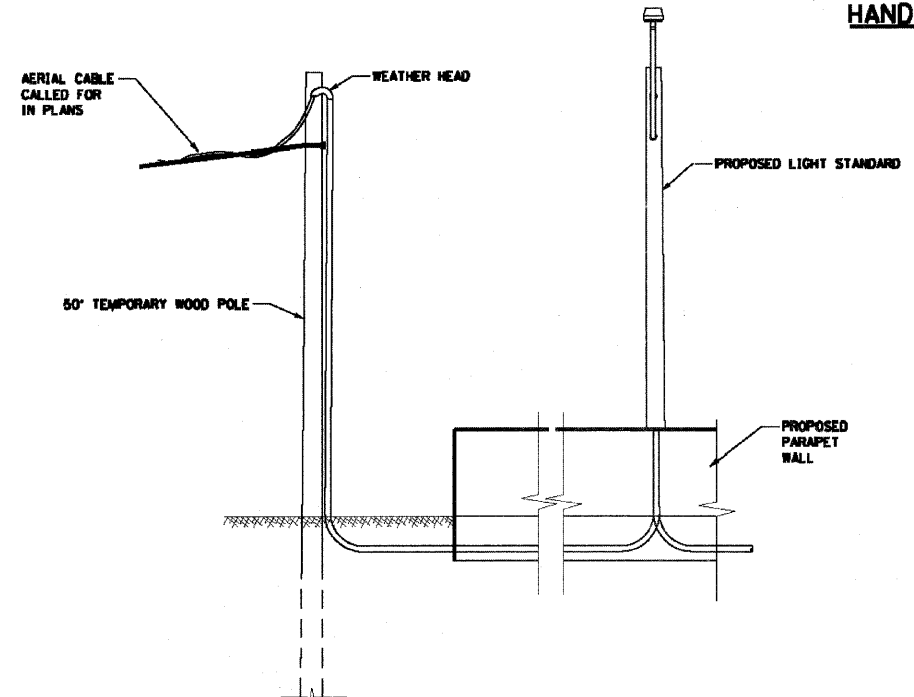
**DETAIL 1** □  
**TEMPORARY POWER FEED TO ALUMINUM POLE**  
 NOT TO SCALE



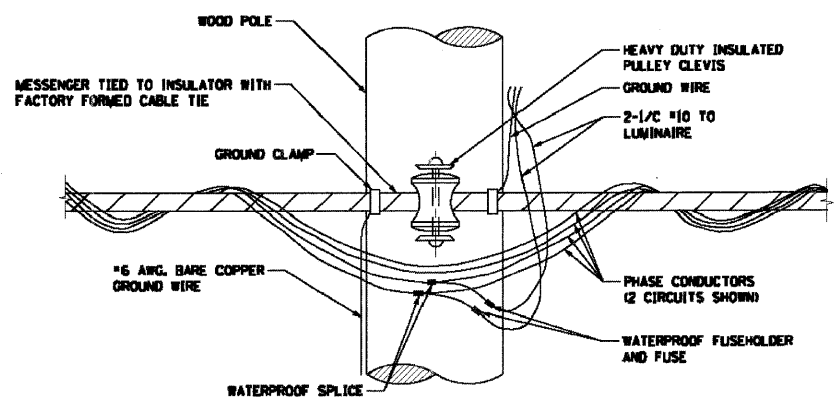
**DETAIL 2** ⊗  
**PROPOSED TEMPORARY POLE/HAND HOLE CONNECTION**  
 NOT TO SCALE



**DETAIL 5** ⊗  
**PROPOSED TEMPORARY CABLE DUCT CONNECTION AT TEMPORARY CROSSOVER**

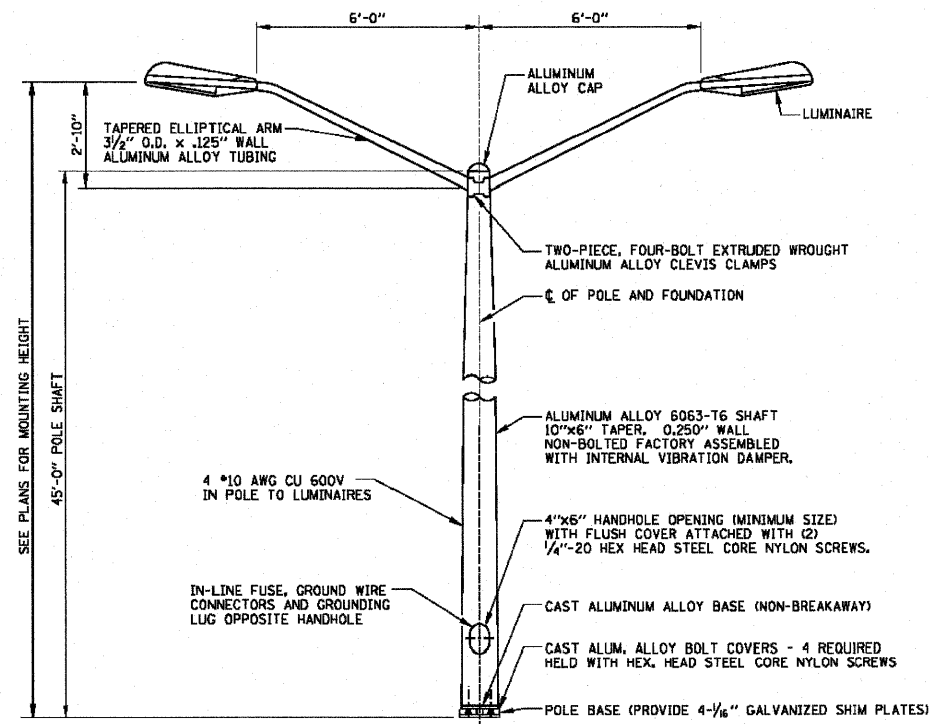


**DETAIL 3** □  
**PROPOSED TEMPORARY POLE CONNECTION TO BARRIER WALL**  
 NOT TO SCALE



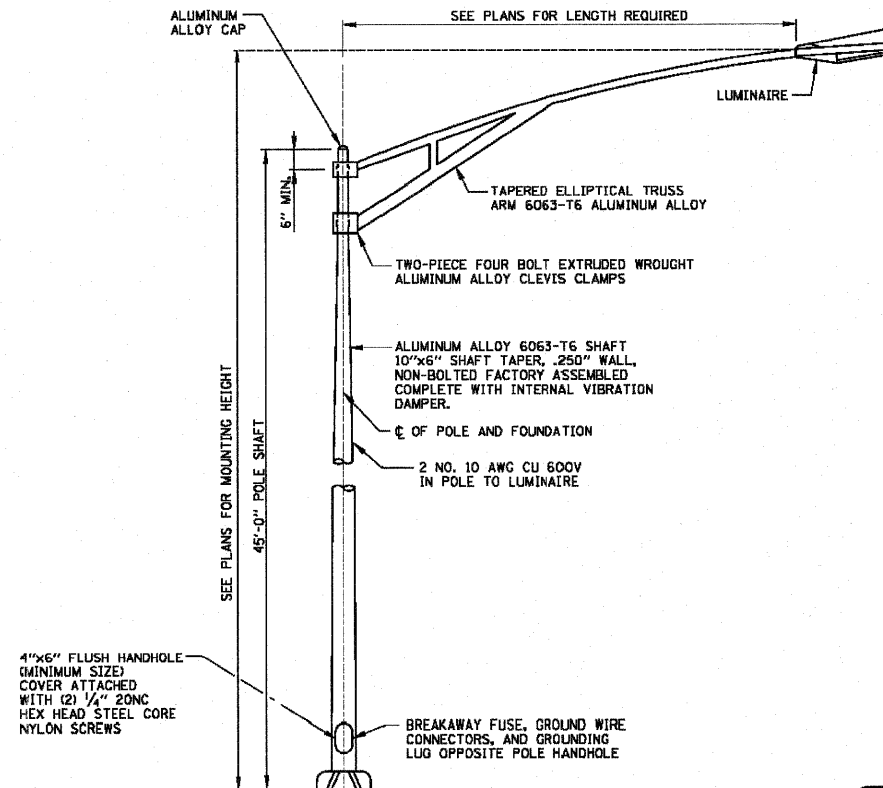
**DETAIL 4** ⊗  
**TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL**  
 NOT TO SCALE

- FOR TEMPORARY CABLE AND ATTACHMENT**
- 4-1/C #2 CONDUCTORS WITH STEEL MESSAGERS FOR GROUNDING CONDUCTOR
  - 2-PHASE CONDUCTORS WITH WATER PROOF FUSE HOLDER AND FUSE PER CIRCUIT



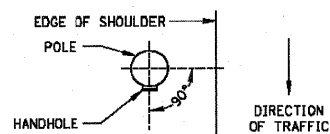
TWIN MAST LIGHT STANDARD DETAIL

NO SCALE

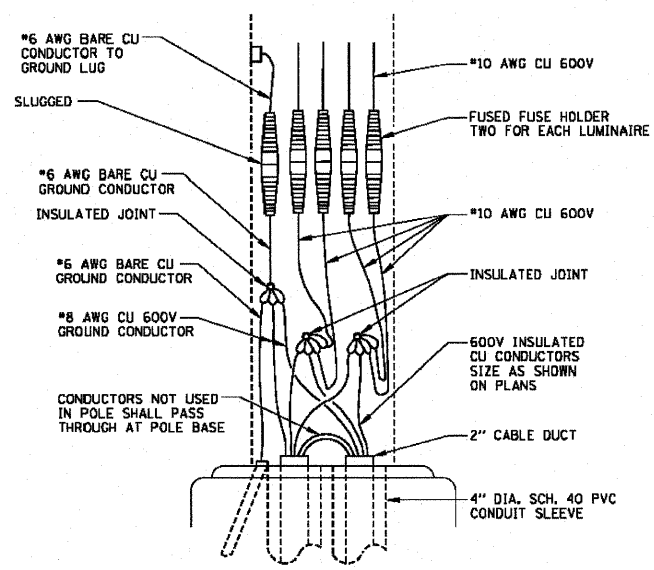


SINGLE MAST LIGHT STANDARD DETAIL

NO SCALE

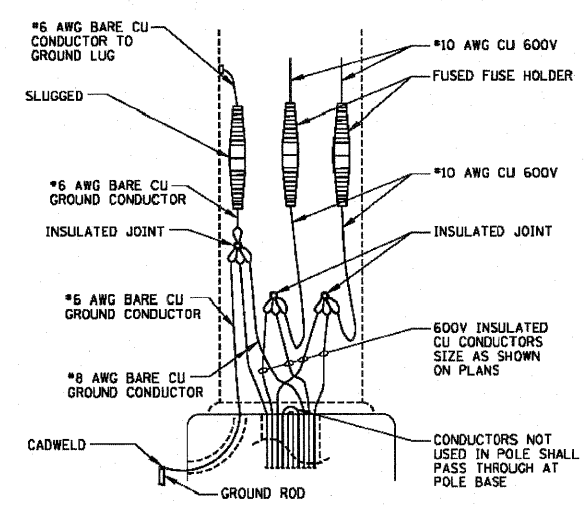


HANDHOLE ORIENTATION



TWIN MAST POLE BASE WIRING DIAGRAM

NO SCALE

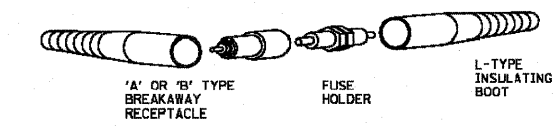


SINGLE MAST POLE BASE WIRING DIAGRAM

NO SCALE

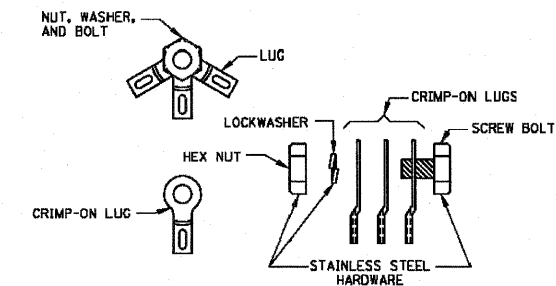
NOTES:

- ALL LIGHT STANDARDS, BOTH NEW AND EXISTING, ARE SHOWN ON PLANS WITH THE FOLLOWING SAMPLE DESCRIPTION:  
 MOUNTING HEIGHT  
 ARM LENGTH  
 SPACING RANGE  
 CIRCUIT NUMBER  
 STATION OF LIGHT STANDARD  
 STA. 0 + 20  
 DISTRIBUTION TYPE  
 CONTROL:  
 S=SEMI-CUTOFF  
 C=FULL CUTOFF
- FOR STRUCTURAL DETAILS OF MEDIAN BARRIER AND CAISSON, SEE STANDARD H8 (MEDIAN BARRIER LIGHT POLE FOUNDATION DETAILS), STANDARD H9 (MEDIAN BARRIER LIGHT POLE FOUNDATION DETAILS - TYPE 4 RETROFIT, 32" BARRIER) OR STRUCTURAL PLANS.



IN-THE-LINE FUSE HOLDER DETAIL WITH BREAKAWAY FEATURE

NO SCALE



JOINT ASSEMBLY DETAILS

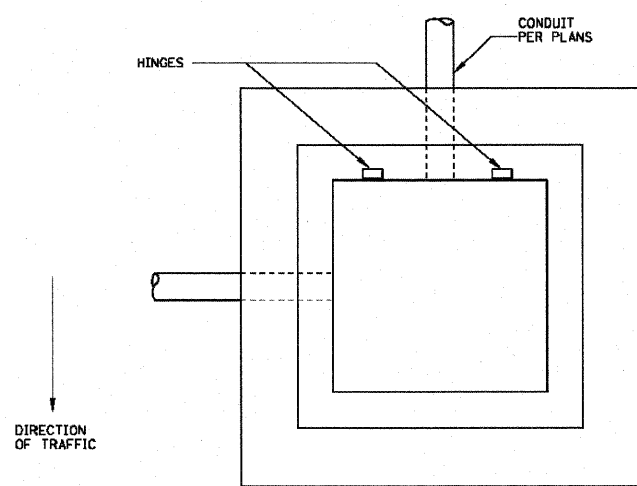
NO SCALE

APPROVED: *Jeff Haly* CHIEF ENGINEER DATE 1-1-2007...

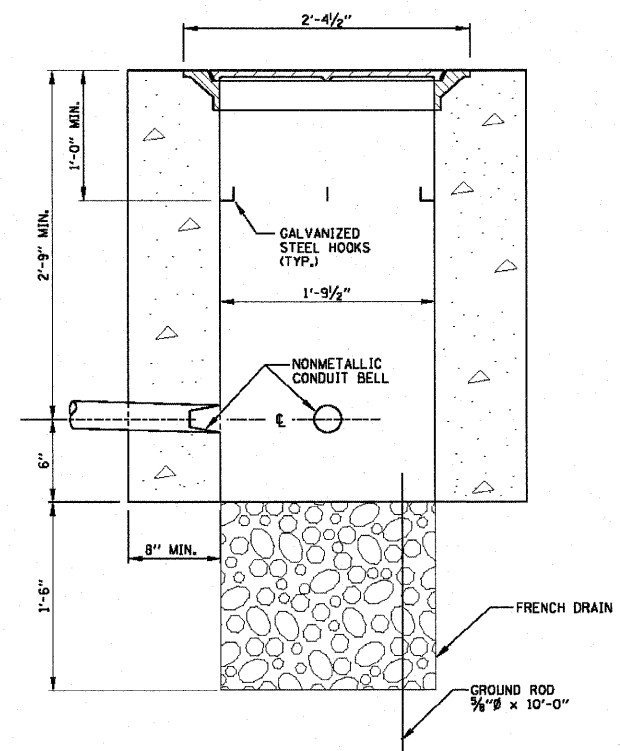


DATE	REVISIONS

LIGHT STANDARD POLE WIRING	
STANDARD H2-00	
Rev. 1-9-12	

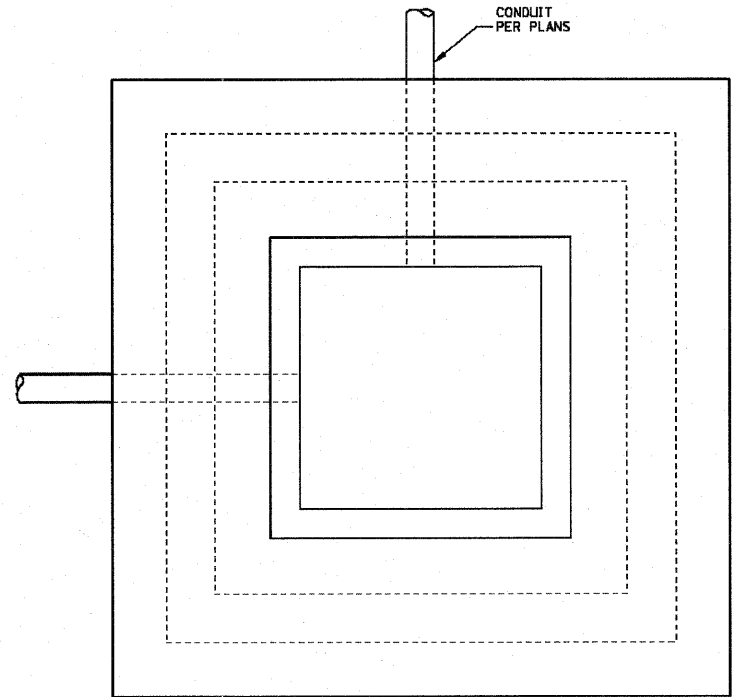


PLAN

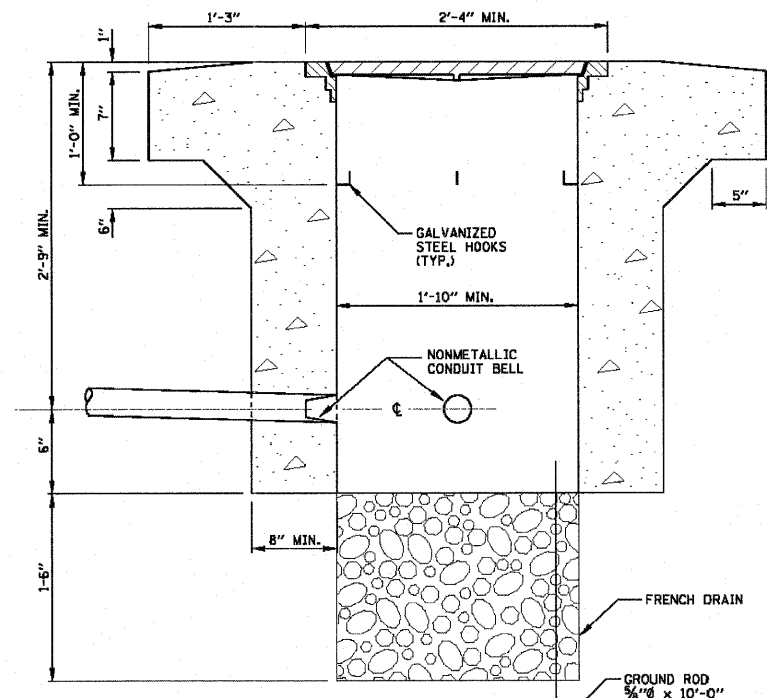


ELEVATION

PC CONCRETE HANDHOLE

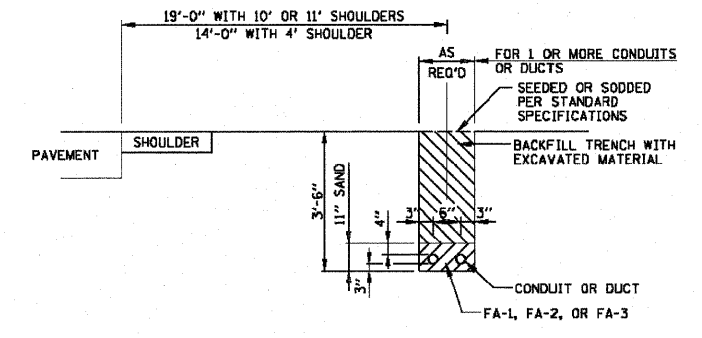


PLAN



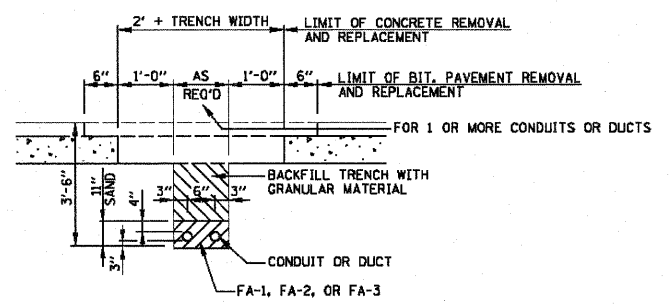
ELEVATION

PC CONCRETE - HEAVY DUTY HANDHOLE



TRENCHING FOR CONDUIT IN NON-PAVED AREAS  
NO SCALE

NOTE:  
SAW-CUT BITUMINOUS AND CONCRETE PAVEMENTS 1" DEEP PRIOR TO REMOVAL



TRENCHING FOR CONDUIT IN PAVED AREAS  
NO SCALE

SEE SHEET 2 (OF 2) IN THIS SERIES FOR GENERAL NOTES

SHEET 1 OF 2



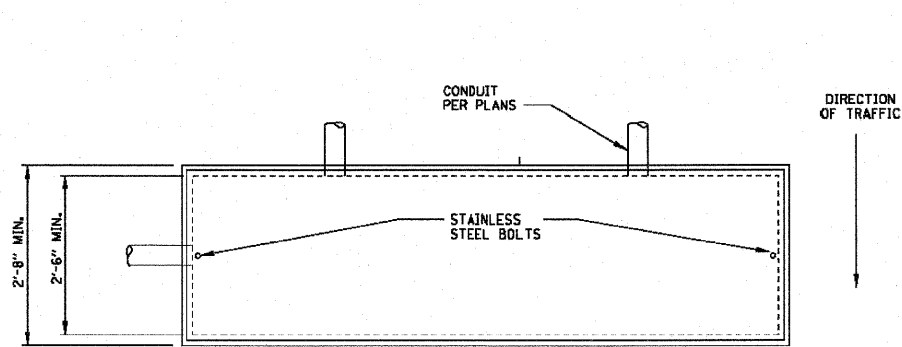
DATE	REVISIONS

BURIED WIRING DETAILS

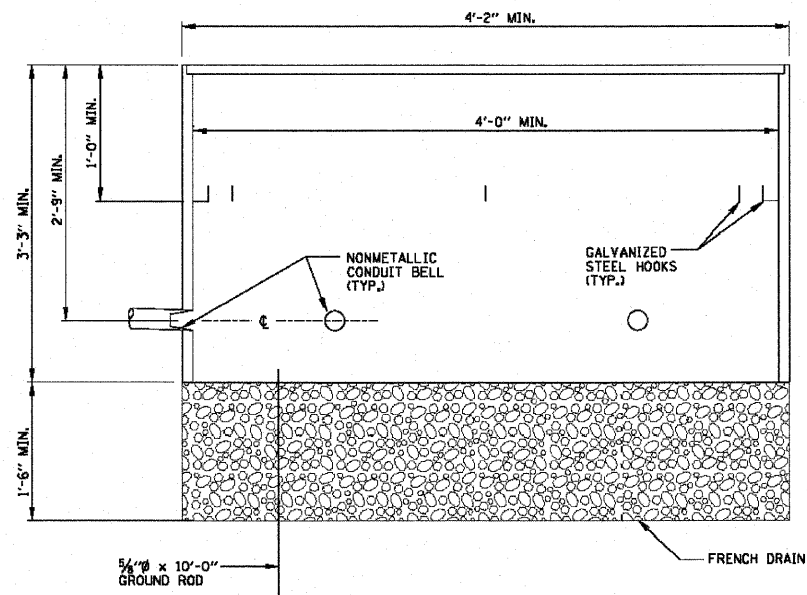
STANDARD H4-00

Rev. 1-9-12

APPROVED: *Jeff Daley*  
CHIEF ENGINEER DATE 1-1-2007

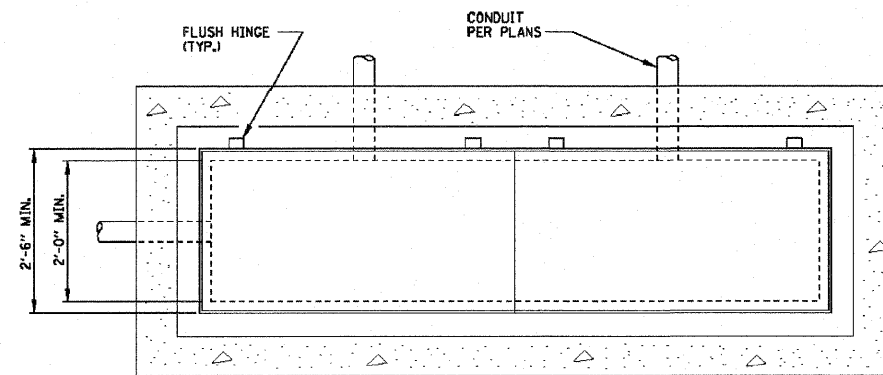


PLAN

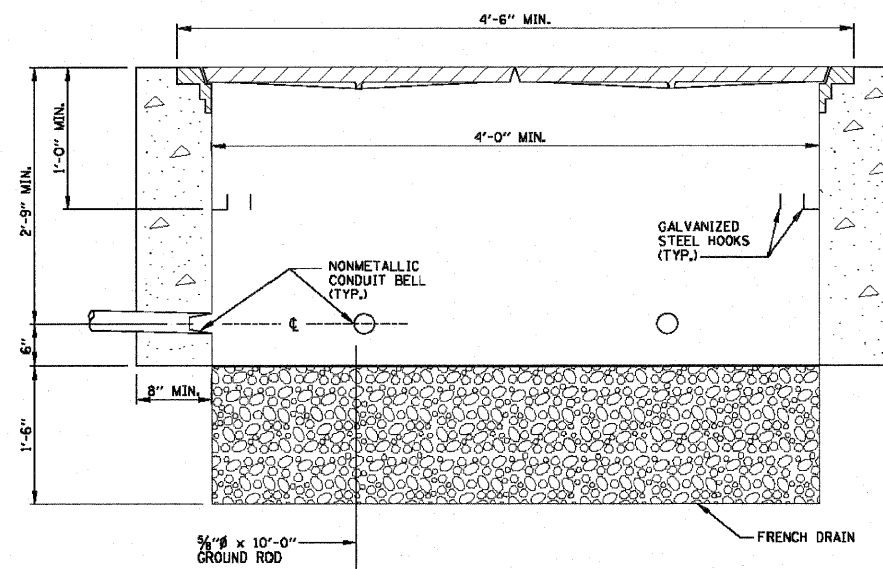


ELEVATION

POLYMER CONCRETE DOUBLE HANDHOLE



PLAN



ELEVATION

CONCRETE DOUBLE HANDHOLE

NOTES:

1. JUNCTION BOXES LOCATED IN UNPAVED AREAS AND NOT PROTECTED BY GUARDRAIL SHALL BE CONSTRUCTED WITH THE TOP FLUSH WITH THE ADJACENT SLOPE.
2. AGGREGATE FOR FRENCH DRAIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
3. HANDHOLES CONSTRUCTED IN PAVED AREAS SHALL BE HEAVY DUTY TYPE.

SHEET 2 OF 2



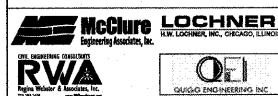
DATE	REVISIONS

BURIED WIRING DETAILS

STANDARD H4-00

Rev. 1-9-12

APPROVED *Jeff Daley* DATE 1-1-2007  
CHIEF ENGINEER



USER NAME = .USERNAME.  
DESIGNED - BLM  
DRAWN - JPW  
CHECKED - BLM  
DATE - 12/22/11

REVISOR -  
REVISION -  
REVISOR -  
REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BURIED WIRING DETAILS 2

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1R)	WINNEBAGO	510	288C
CONTRACT NO. 64C29				

ILLINOIS FED. AID PROJECT









**GENERAL NOTES**

**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

**LOADING:** 90 M.P.H. WIND VELOCITY

**WALKWAY LOADING:** Dead load plus 500 lbs. concentrated live load.

**DESIGN STRESSES:**  
Field Units  
f<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i. (reinforcement)

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

**MATERIALS:** Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.  
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

**FASTENERS FOR ALUMINUM TRUSSES:** All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

**U-BOLTS AND EYEBOLTS:** U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

**ANCHOR RODS:** Shall conform to ASTM F1554 Gr. 105.

**CONCRETE SURFACES:** All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

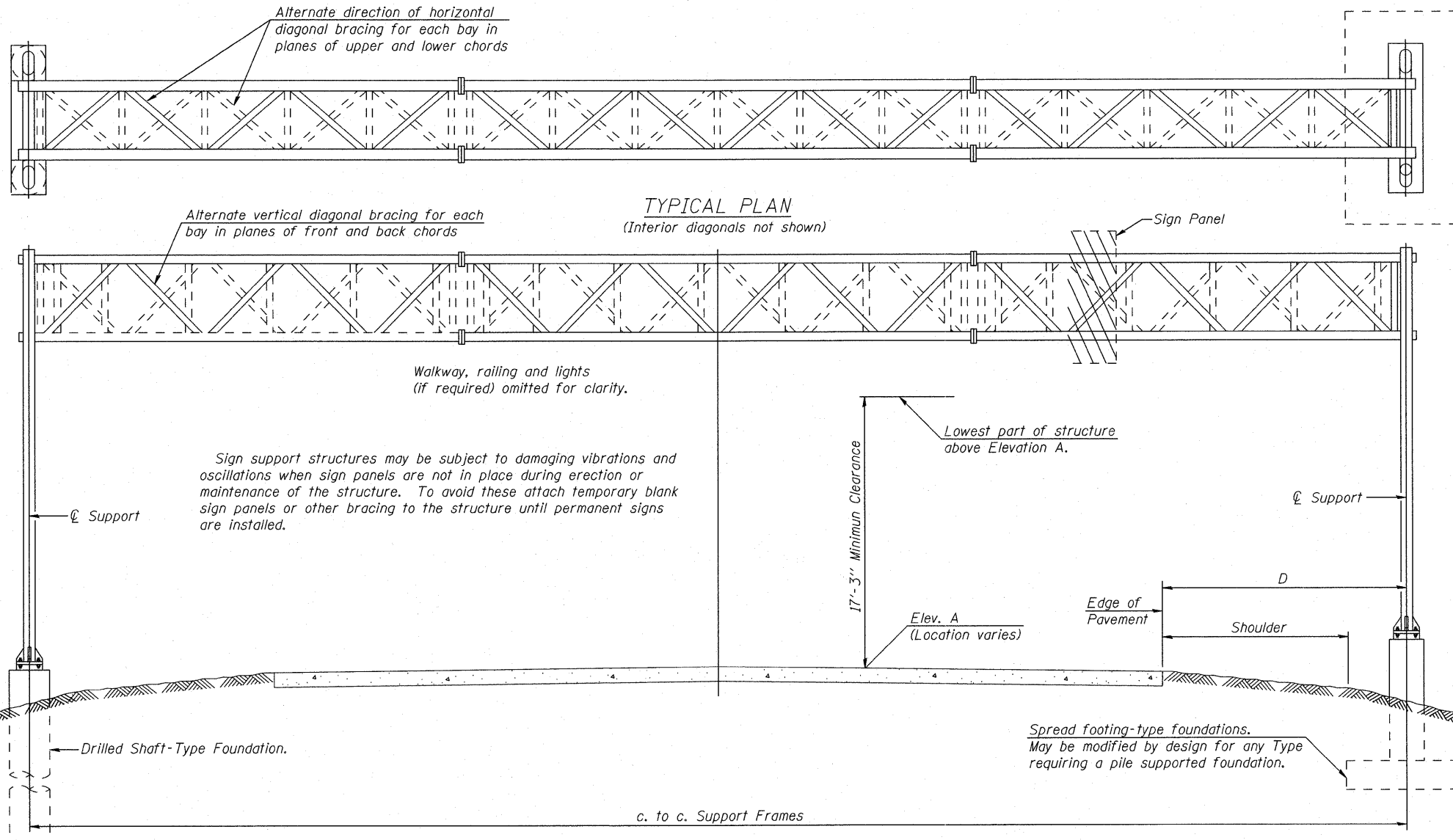
**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

**FOUNDATIONS:** The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	120
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	100
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	87
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	64.5
REINFORCEMENT BARS - EPOXY COATED	Pounds	10470

Rev. 1-9-12



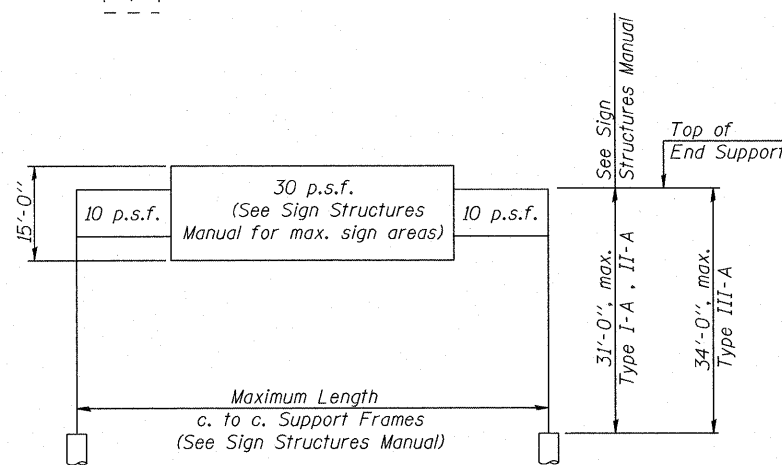
**TYPICAL ELEVATION**  
(Looking at Face of Signs)\*\*

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
2S1011090L00.65	34+18 LT	II-A	120'	784.54	42.3'	13.5'	490 SF
2S1011090L01.77	93+50 LT	III-A	100'	778.62	48.5'	7.83'	195 SF

\*\*Looking upstation for structures with signs both sides.

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



OS-A-1 1-20-11

	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURES - GENERAL PLAN &amp; ELEVATION - ALUMINUM TRUSS &amp; STEEL SUPPORTS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - DW	REVISED -			90	(X2-1) R	WINNEBAGO	510	308
	PLOT DATE = 12/20/2011	DRAWN - JDH	REVISED -	SHEET NO. 1 OF 20 SHEETS		CONTRACT NO. 64C29		ILLINOIS FED. AID PROJECT		
	DATE = 10-21-2011	REVISOR -	REVISED -							

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

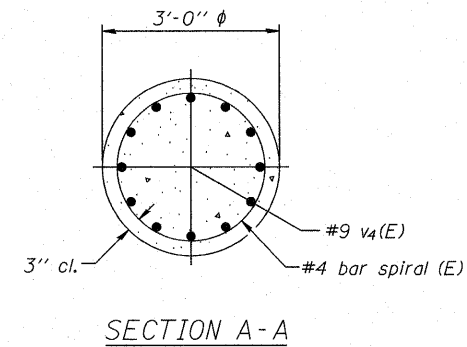
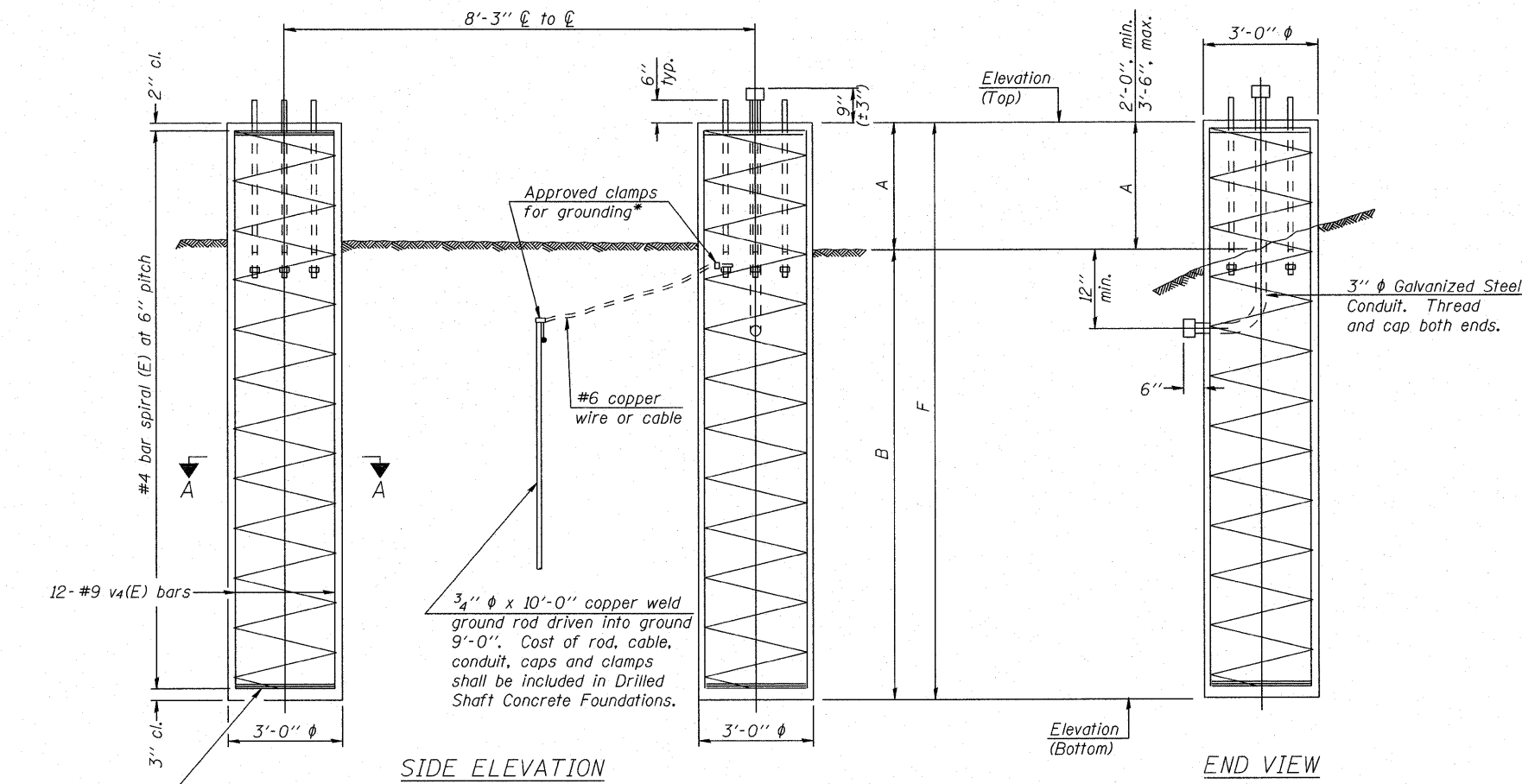
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

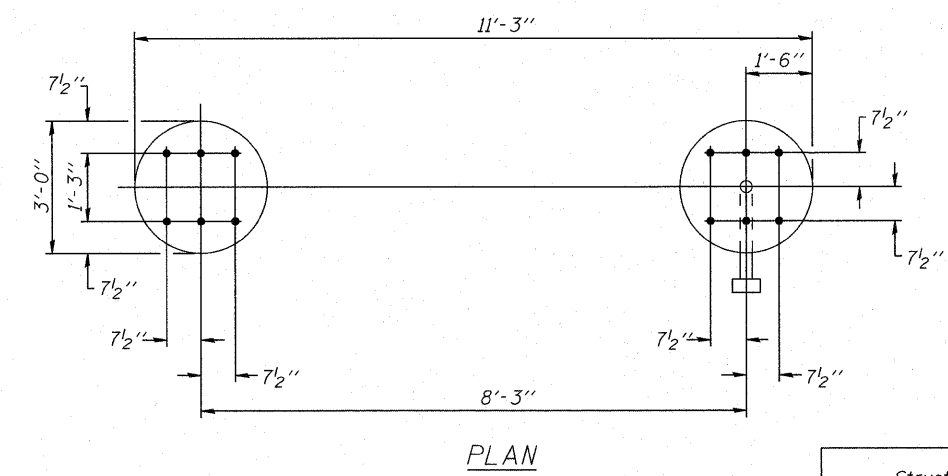
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



3 hoops minimum top and bottom



For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 10" Ø SUPPORT FRAME TYPE I-A or II-A TRUSS

Structure Number	Station	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)							
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F			
2S1011090L00.65	34+18 LT	783.3	759.3	3.5'	20.5'	24.0'								12.6	

NOTE: SOIL CONDITIONS AT THE BOTTOM OF THE FOUNDATION EXCAVATION AND ALONG THE SIDES OF THE SHAFT SHALL BE FIELD VERIFIED TO CONFIRM THAT THEY ARE CONSISTENT WITH THE SOIL BORING LOGS.

OS4-F3 1-20-11

	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURES</b> <b>DRILLED SHAFT DETAILS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE =	CHECKED - DW			REVISED -	90	(X2-1) R	WINNEBAGO	510
	PLOT DATE = 12/28/2011	DRAWN - JDH	REVISED -	SHEET NO. 17 OF 20 SHEETS		CONTRACT NO. 64C29				
	DATE = 10-21-2011	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT						

Rev. 1-9-12

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

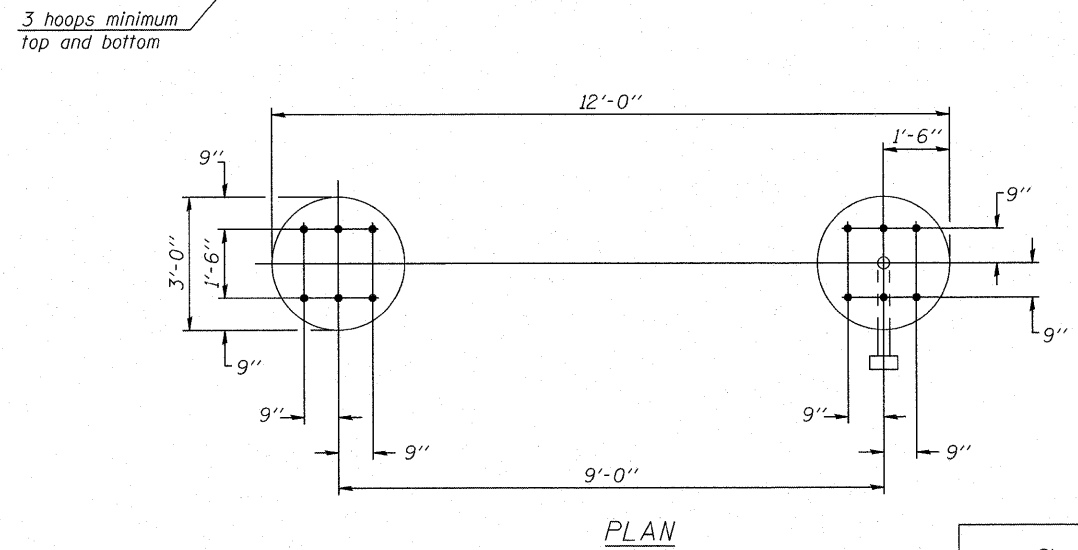
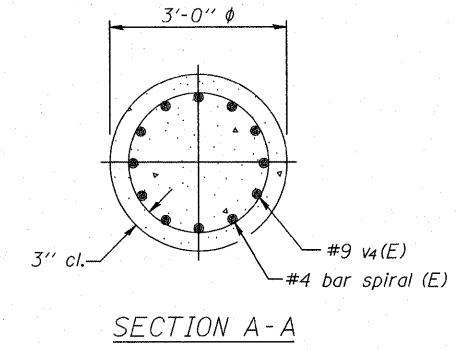
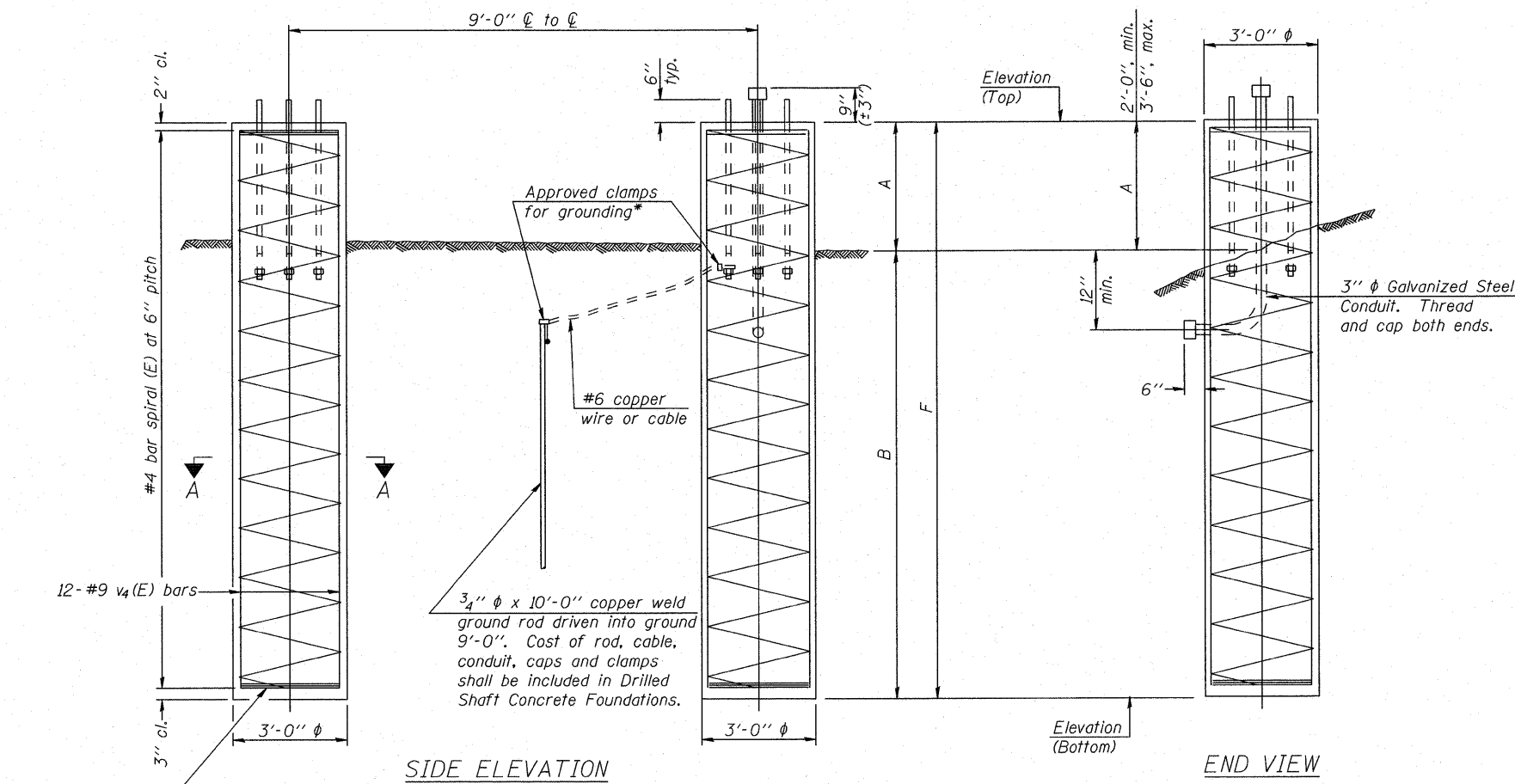
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 12" Ø SUPPORT FRAME  
TYPE III-A TRUSS

Structure Number	Station	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)					
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F	
2S1011090L01.77	93+50 LT	778.3	751.3	3'	24.0'	27.0'							14.1

NOTE:  
SOIL CONDITIONS AT THE BOTTOM OF THE FOUNDATION EXCAVATION AND ALONG THE SIDES OF THE SHAFT SHALL BE FIELD VERIFIED TO CONFIRM THAT THEY ARE CONSISTENT WITH THE SOIL BORING LOGS.

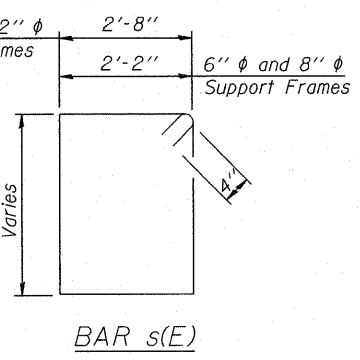
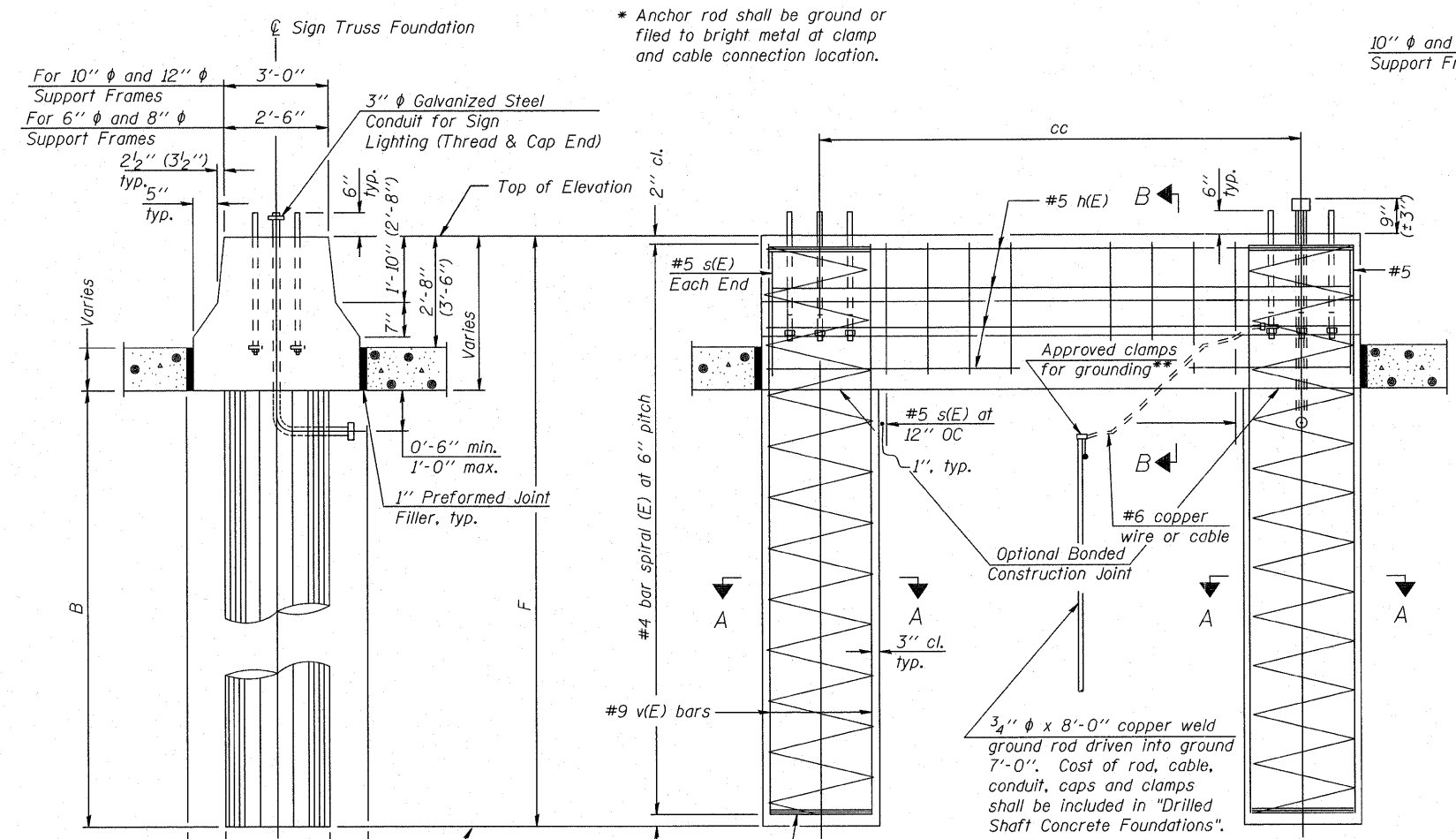
OS4-F4

1-20-11

			USER NAME = PLOT SCALE = PLOT DATE = 12/20/2011	DESIGNED - CHECKED - DW DRAWN - JDH DATE - 10-21-2011	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS SHEET NO. 18 OF 20 SHEETS	F.A. RTE. 90 SECTION (X2-1) R COUNTY WINNEBAGO TOTAL SHEETS 510 SHEET NO. 325 CONTRACT NO. 64C29 ILLINOIS FED. AID PROJECT
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Rev. 1-9-12

**NOTES:**  
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
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 Concrete shall be placed monolithically, without construction joints.  
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
 A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

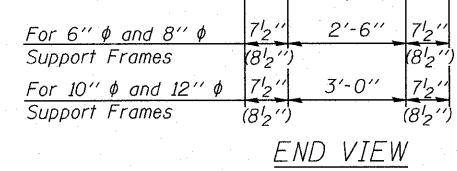


Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5 1/2"
8"φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"φ	8'-3"	11'-3"	1'-3"	7 1/2"
12"φ	9'-0"	12'-0"	1'-6"	9"

**BAR LIST - EACH FOUNDATION**

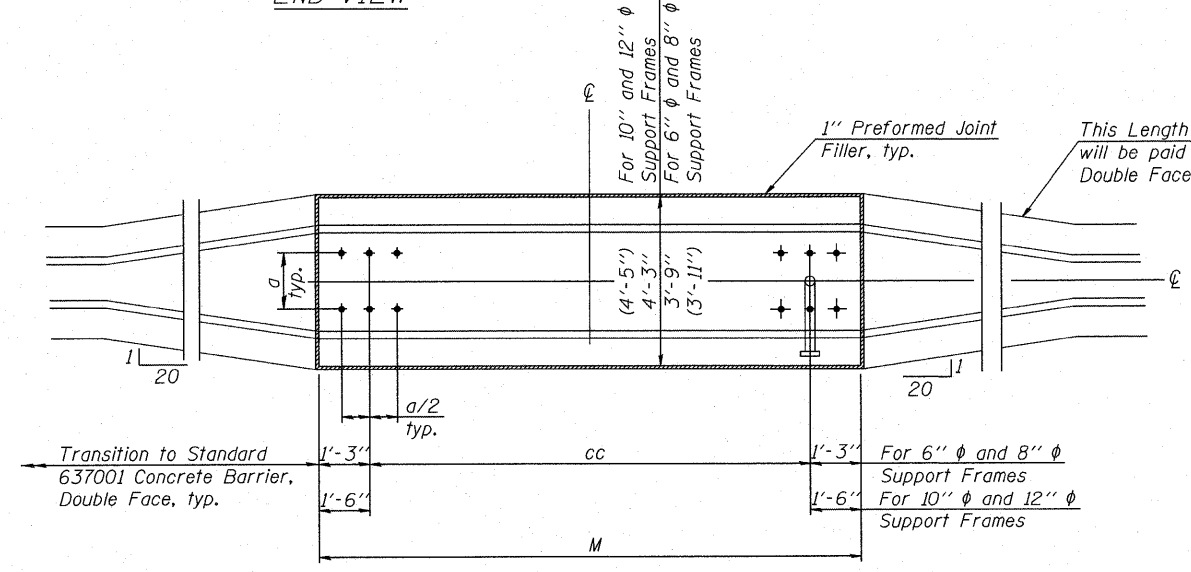
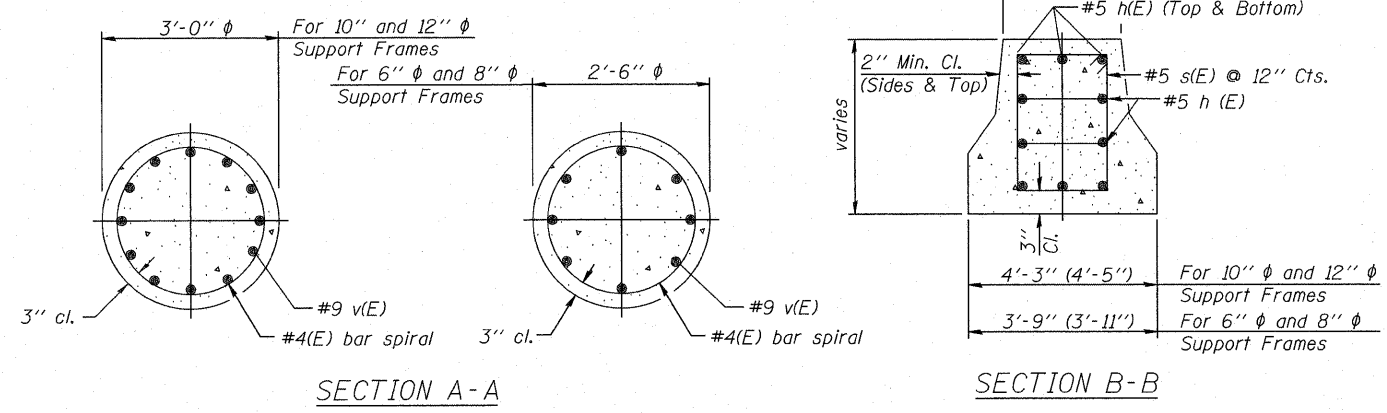
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral - see Side Elevation



**SIDE ELEVATION**  
 Concrete Foundation poured monolithically with no construction joint.

All dimensions in parenthesis are for 42" high barrier.



**PLAN**

**NOTE:**  
 SOIL CONDITIONS AT THE BOTTOM OF THE FOUNDATION EXCAVATION AND ALONG THE SIDES OF THE SHAFT SHALL BE FIELD VERIFIED TO CONFIRM THAT THEY ARE CONSISTENT WITH THE SOIL BORING LOGS.

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
2S1011090L00.65	34+18 LT					787.58	762.52	20.5'	25.06'	17.7
2S1011090L01.77	93+50 LT					781.24	752.68	24.0'	28.56'	20.1

OS4-MED

1-20-11

	USER NAME = PLOT SCALE = PLOT DATE = 12/28/2011	DESIGNED - CHECKED - DW DRAWN - JDH DATE - 10-21-2011	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

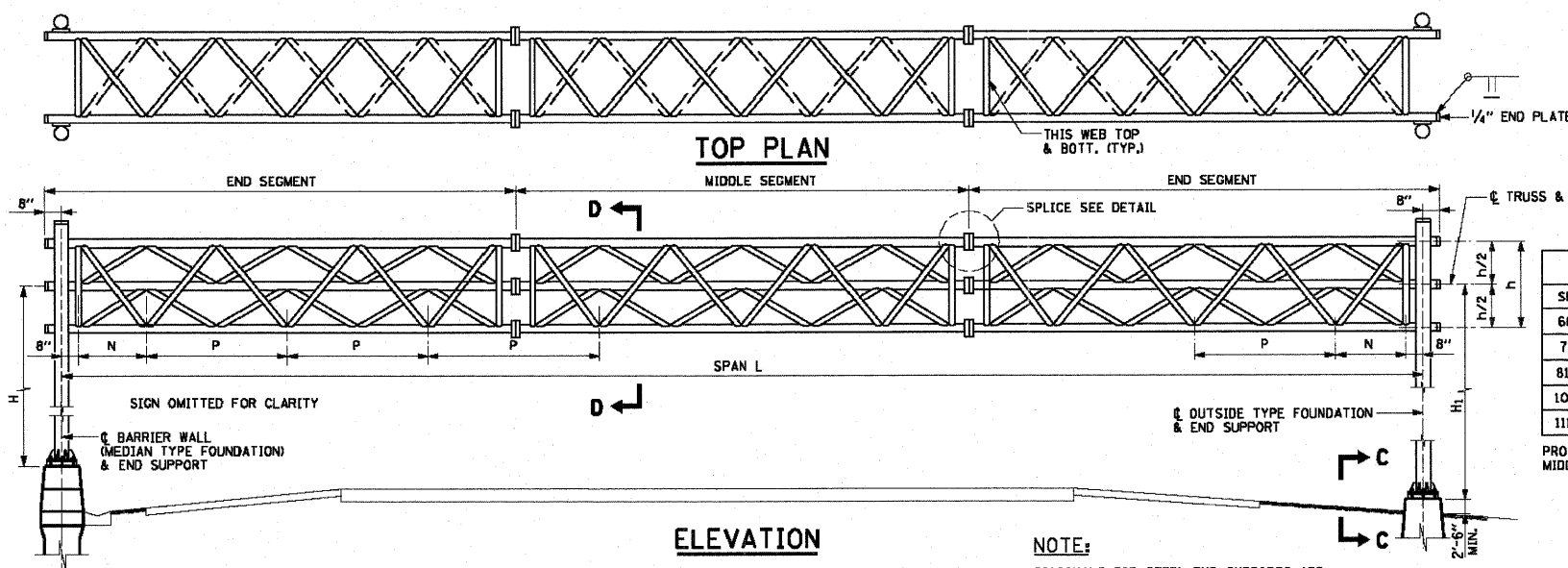
**OVERHEAD SIGN STRUCTURES**  
**MEDIAN SUPPORT FOUNDATION DETAILS**

SHEET NO. 19 OF 20 SHEETS

F.A. RTE. 90	SECTION (X2-1) R	COUNTY WINNEBAGO	TOTAL SHEETS 510	SHEET NO. 326
CONTRACT NO. 64C29				
ILLINOIS FED. AID PROJECT				

Rev. 1-9-12





CAMBER	
SPAN IN FEET	CAMBER IN INCHES
60 THRU 70	1 3/4"
71 THRU 80	2"
81 THRU 100	2 1/4"
101 THRU 110	2 1/2"
111 THRU 120	2 1/2"

PROVIDE THE ABOVE CAMBER AT MIDDLE OF SPAN OF STRUCTURES

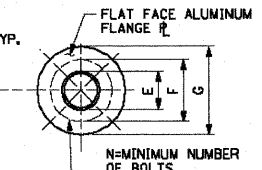
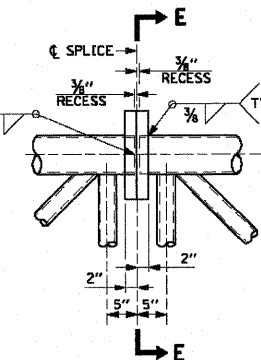
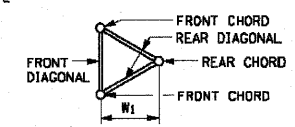
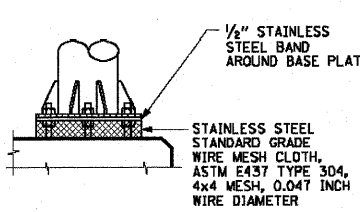
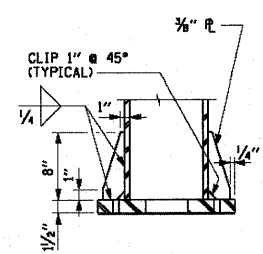
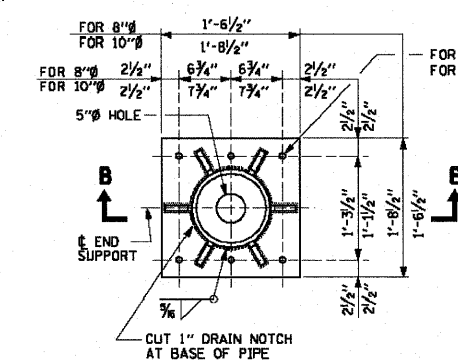
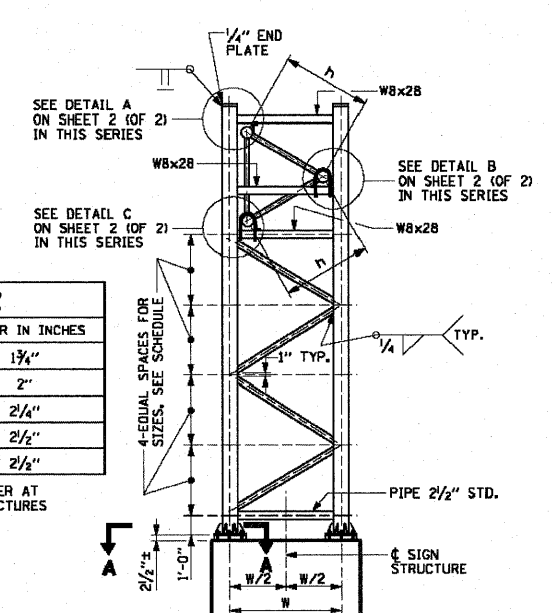


TABLE A			
CHORD SIZE E	F	G	N
3 1/2" & 3 3/4"	8 1/2"	11 1/2"	6
4 1/4", 4 3/4", 5"	9 1/4"	12 1/4"	8
6" & 6 1/2"	11"	14"	10

BOLT CIRCLE FOR 1 1/4" HOLES AND 3/8" STAINLESS STEEL (S.S.) BOLTS WITH HEX LOCKNUTS & S.S. WASHERS UNDER HEAD & NUT. FOR E, F, G & N, SEE TABLE A. REQUIRED MIN. BOLT TENSION IS 500#. 3/8" STUDS SHALL BE SUBSTITUTED WHEN DIAGONALS INTERFERE WITH BOLT LOCATION.

TRUSS NO.	DIMENSIONS							ALUMINUM TRUSS				STEEL END SUPPORT			FOUNDATION TYPE
	TRUSS SPAN L	P	N	h	W <sub>1</sub>	W	DL (TRUSS) DEFLECTION	MIDDLE SEGMENT OR END SEGMENT				PIPE COLUMN (NOMINAL DIAMETER)			
								CHORD (O.D.)		DIAGONAL (O.D.)		H OR H <sub>1</sub>	H OR H <sub>1</sub>	H OR H <sub>1</sub>	
T-60	60'-0"	6'-8"	2'-8"	3'-4"	2'-10 1/2"	4'-4 1/2"	1 1/8"	3 1/2" x 1/4"	3 3/4" x 1/4"	2" x 3/8"	2" x 3/8"	8" STD. (28.55#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80
T-65	65'-0"	7'-4"	2'-6"	3'-8"	3'-2 1/8"	4'-8"	1 3/8"	3 1/2" x 1/4"	3 3/4" x 1/4"	2" x 3/8"	2" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80
T-70	70'-0"	8'-0"	2'-4"	4'-0"	3'-5 3/8"	5'-0"	1 1/8"	3 3/4" x 1/4"	3 3/4" x 1/4"	2" x 3/8"	2" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80
T-75	75'-0"	8'-6"	2'-10"	4'-3"	3'-8 1/4"	5'-3"	1 3/8"	4 1/4" x 1/4"	4 3/4" x 3/8"	2" x 3/8"	2" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80
T-80	80'-0"	9'-0"	3'-4"	4'-6"	3'-10 3/4"	5'-6"	2"	4 3/4" x 3/8"	5" x 1/4"	2 1/4" x 3/8"	2" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	80
T-85	85'-0"	9'-6"	3'-10"	4'-9"	4'-1 1/8"	5'-9"	2 1/8"	5" x 1/4"	5" x 3/8"	2 1/4" x 3/8"	2 1/4" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	100
T-90	90'-0"	10'-0"	4'-4"	5'-0"	4'-4"	5'-11 1/2"	2 1/4"	5" x 3/8"	5" x 3/8"	2 1/2" x 3/8"	2 1/4" x 3/8"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	100
T-95	95'-0"	10'-6"	4'-10"	5'-3"	4'-6 3/8"	6'-2"	2 3/8"	5" x 3/8"	5" x 3/8"	2 1/2" x 3/8"	2 1/2" x 3/8"	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	100
T-100	100'-0"	11'-4"	4'-0"	5'-8"	4'-10 1/8"	6'-7 1/2"	2 1/4"	6" x 1/4"	6" x 1/4"	2 3/4" x 3/8"	2 1/2" x 3/8"	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	100
T-105	105'-0"	12'-0"	3'-10"	6'-0"	5'-2 3/8"	6'-11"	2 3/8"	6" x 3/8"	6" x 3/8"	3" x 3/8"	2 3/4" x 3/8"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	120
T-110	110'-0"	12'-6"	4'-4"	6'-3"	5'-5"	7'-1 1/2"	2 3/8"	6" x 3/8"	6" x 3/8"	3" x 3/8"	2 3/4" x 3/8"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	120
T-115	115'-0"	13'-0"	4'-10"	6'-6"	5'-7 3/8"	7'-4 1/2"	2 3/8"	6 1/2" x 3/8"	6" x 3/8"	3 1/4" x 1/4"	3" x 3/8"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (104.13#/FT.)	120
T-120	120'-0"	13'-8"	4'-8"	6'-10"	5'-11"	7'-8"	2 3/8"	6 1/2" x 3/8"	6 1/2" x 3/8"	3 1/2" x 3/8"	3" x 3/8"	10" X.S. (54.74#/FT.)	10" X.S. (104.13#/FT.)	10" X.S. (104.13#/FT.)	120

**NOTES:**  
**DESIGN SPECIFICATIONS:**  
 THESE STRUCTURES ARE DESIGNED TO SATISFY THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION WITH 2002 AND 2003 INTERIMS. TRUSSES ARE DESIGNED FOR A NINE FOOT DEEP SIGN PANEL OVER 75% OF SPAN LENGTH, BOTH END SUPPORTS ARE DESIGNED FOR 60% OF THE TOTAL LOAD.  
**LOADING:**  
 ORIGINAL DESIGN LOADING WAS 35 PSF ON SIGN PANELS AND 10 PSF ON GROSS AREAS DEFINED BY THE PERIMETER OF TRUSS MEMBERS NOT COVERED BY SIGN PANEL AREAS. THE AASHTO GROUP II ALLOWABLE OVERSTRESS WAS 140% (ALLOWABLE STRESS DESIGN).

**CONSTRUCTION SPECIFICATIONS:**  
 ALL MATERIALS, EXCEPT AS SHOWN, FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 733 OF THE IDOT STANDARD SPECIFICATIONS.

ITEM	UNIT	TOTAL
REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	6
REINFORCEMENT BARS, EPOXY COATED	POUNDS	18,470
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE, SPAN	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE END SUPPORT	EACH	4
ANCHOR RODS, 1 1/2"	EACH	72
RELOCATE OVERHEAD SIGN STRUCTURE SPAN TYPE (ALUMINUM 90 FT)	EACH	1
OVERHEAD SIGN STRUCTURE SPAN TYPE (ALUMINUM 90 FT)	FOOT	90
OVERHEAD SIGN STRUCTURE SPAN TYPE (ALUMINUM 105 FT)	FOOT	105
FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU.YD.	156.6

SIGN LOCATION	TRUSS NO.	H	H <sub>1</sub>
STA: 120+90 RT	T-90	22'	27'-4 1/3"
STA: 126+72 RT	T-105	23'-1 1/2"	28'-11 1/8"
STA: 147+40 RT	T-90	22'-6 3/4"	22'-10"

\* RELOCATED EXISTING SIGN STRUCTURE FROM STA: 147+54 RT

APPROVED: *Jeff Daley* DATE: 1-1-2007  
 CHIEF ENGINEER

SHEET 1 OF 2



DATE	REVISIONS

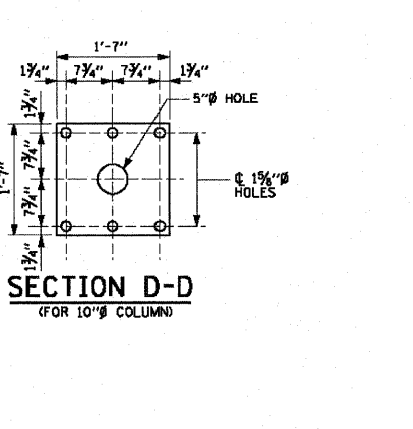
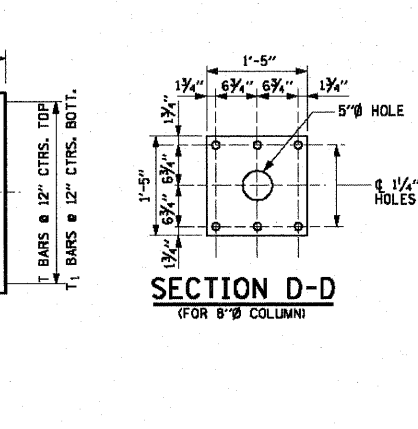
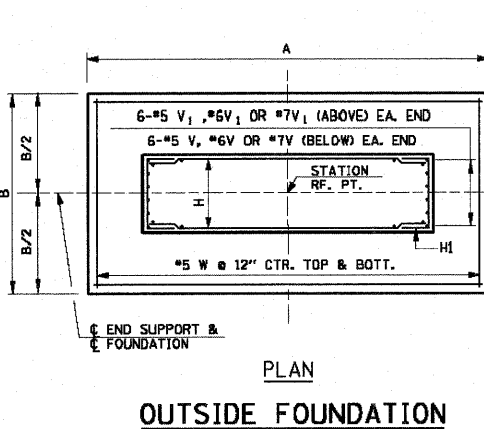
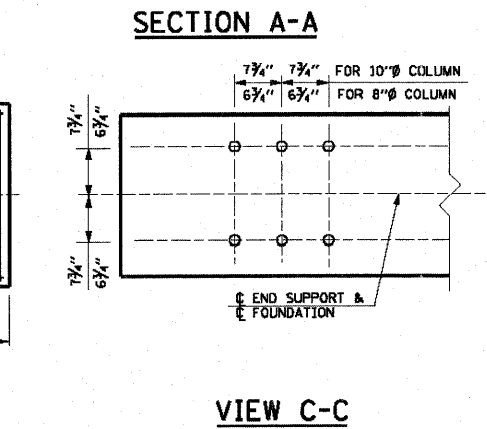
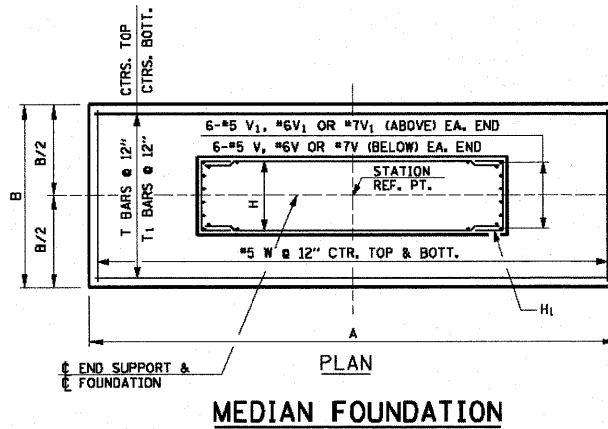
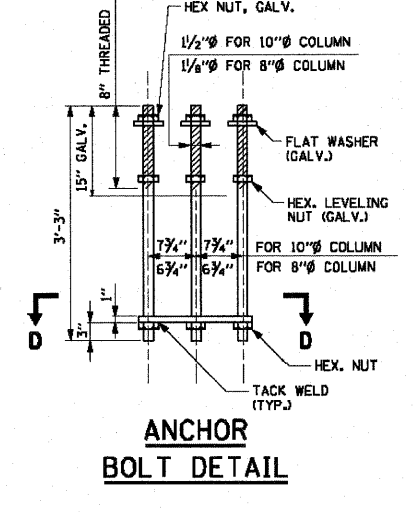
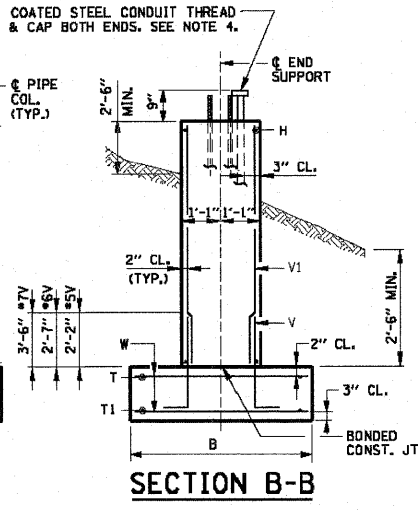
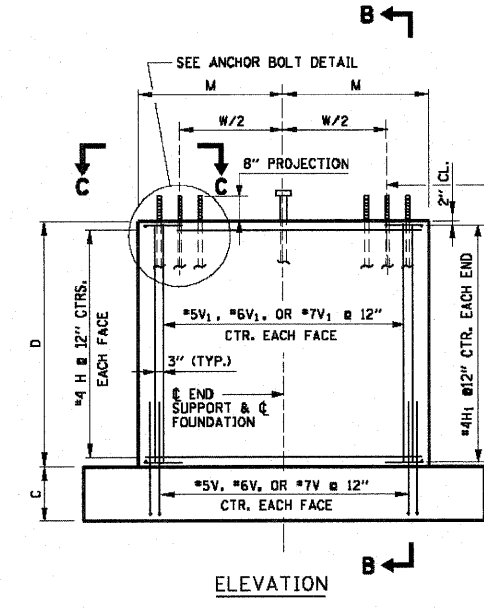
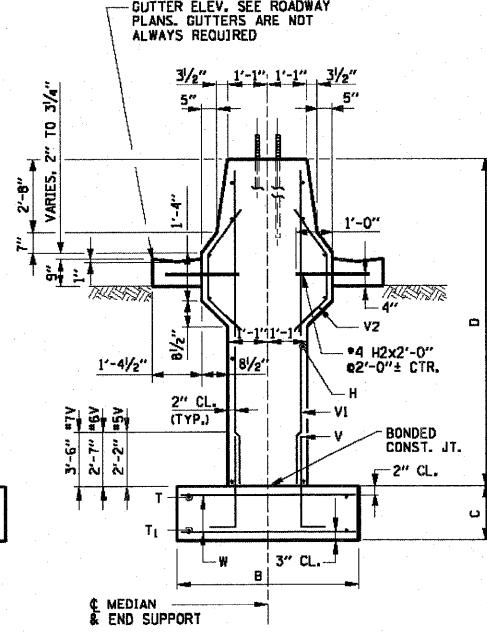
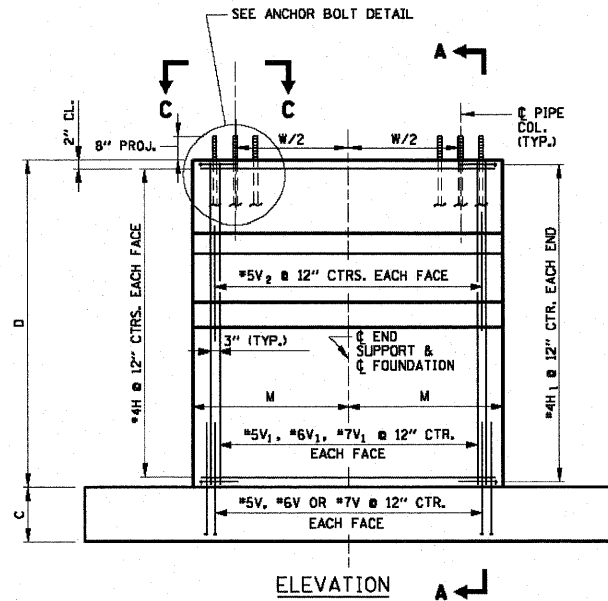
OVERHEAD SIGN STRUCTURE  
 SPAN TYPE, ALUMINUM  
 STANDARD F1-00

Rev. 1-9-12



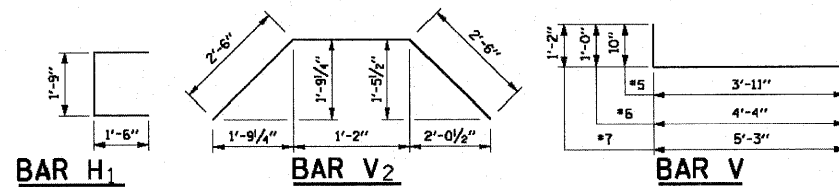
NOTE: SEE IDOT DETAIL SHEET OS4-MED2 FOR DETAILS ON LEFT FOUNDATIONS AT STATIONS 126+72 RT & 147+40 RT.

SIGN LOCATION	TRUSS NO.	LEFT FOUNDATION		RIGHT FOUNDATION			
		TYPE	ELEVATION TOP	ELEVATION BOTTOM	TYPE	ELEVATION TOP	ELEVATION BOTTOM
STA: 120+90 RT	T-90	100F	789.36	780.36	100S	784.0	774.0
STA: 126+72 RT	T-105				120S	781.8	771.8
STA: 147+40 RT	T-90				100S	780.83	770.83



**FOUNDATION SCHEDULE**

FOUNDATION TYPE	LOCATION	DIMENSIONS					REINFORCEMENT																				CONCRETE IN CU. YDS.	REINF. BARS IN LBS.										
		A	B	C	D	M	BAR T OR T1		BAR W		BAR V		BAR V1		BAR V2		BAR H		BAR H1		BAR H2																	
							NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE	NO.	SIZE	LENGTH	SHAPE	NO.							
80F	MEDIAN	20'-0"	8'-9"	2'-0"	7'-0"	4'-0"	9	#6	#7	19'-8"		40	#5	8'-5"		28	#5	4'-9"		28	#5	6'-10"		16	#5	6'-2"		14	#4	7'-8"		14	#4	4'-9"		10	18.6	1550
80S	OUTSIDE	20'-0"	8'-9"	2'-0"	8'-0"	4'-0"	9	#6	#7	19'-8"		40	#5	8'-5"		28	#5	4'-9"		28	#5	7'-10"		16	#4	7'-8"		16	#4	4'-9"		12	18.1	1480				
100F	MEDIAN	22'-0"	10'-0"	2'-0"	7'-0"	5'-3"	10	#6	#7	21'-8"		44	#5	9'-8"		34	#6	5'-4"		34	#6	6'-10"		22	#5	6'-2"		14	#4	10'-2"		14	#4	4'-9"		12	23.7	2130
100S	OUTSIDE	22'-0"	10'-0"	2'-0"	8'-0"	5'-3"	10	#6	#7	21'-8"		44	#5	9'-8"		34	#6	5'-4"		34	#6	7'-10"		16	#4	10'-2"		16	#4	4'-9"		14	23.1	2050				
120F	MEDIAN	24'-0"	10'-0"	2'-0"	7'-0"	6'-0"	10	#7	#8	23'-8"		48	#5	9'-8"		36	#7	6'-5"		36	#7	6'-10"		24	#5	6'-2"		14	#4	11'-8"		14	#4	4'-9"		14	26.2	2910
120S	OUTSIDE	24'-0"	10'-0"	2'-0"	8'-0"	6'-0"	10	#7	#8	23'-8"		48	#5	9'-8"		36	#7	6'-5"		36	#7	7'-10"		16	#4	11'-8"		16	#4	4'-9"		16	25.5	2830				



**NOTES:**

- MINIMUM ALLOWABLE SOIL BEARING PRESSURE NOT TO BE LESS THAN 3000 P.S.F.
- ALL MATERIAL, FABRICATION AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 734 OF THE IDOT STANDARD SPECIFICATIONS.
- ALL REBARS SHALL BE EPOXY COATED.
- FOR SIZE AND NUMBER OF COATED STEEL CONDUITS, SEE CONSTRUCTION ELECTRICAL DRAWINGS.
- SOIL CONDITIONS AT THE BOTTOM OF THE FOUNDATION EXCAVATION SHALL BE FIELD VERIFIED TO CONFIRM THAT THEY ARE CONSISTENT WITH THE SOIL BORING LOGS.

DATE	REVISIONS



OVERHEAD SIGN STRUCTURE  
SPAN TYPE, "F" BARRIER FOUNDATION  
STANDARD F3-00

Rev. 1-9-12



USER NAME =	DESIGNED -	REVISOR -
PLOT SCALE =	CHECKED - DW	REVISOR -
PLOT DATE = 12/20/2011	DRAWN - JDH	REVISOR -
	DATE - 10-21-2011	REVISOR -

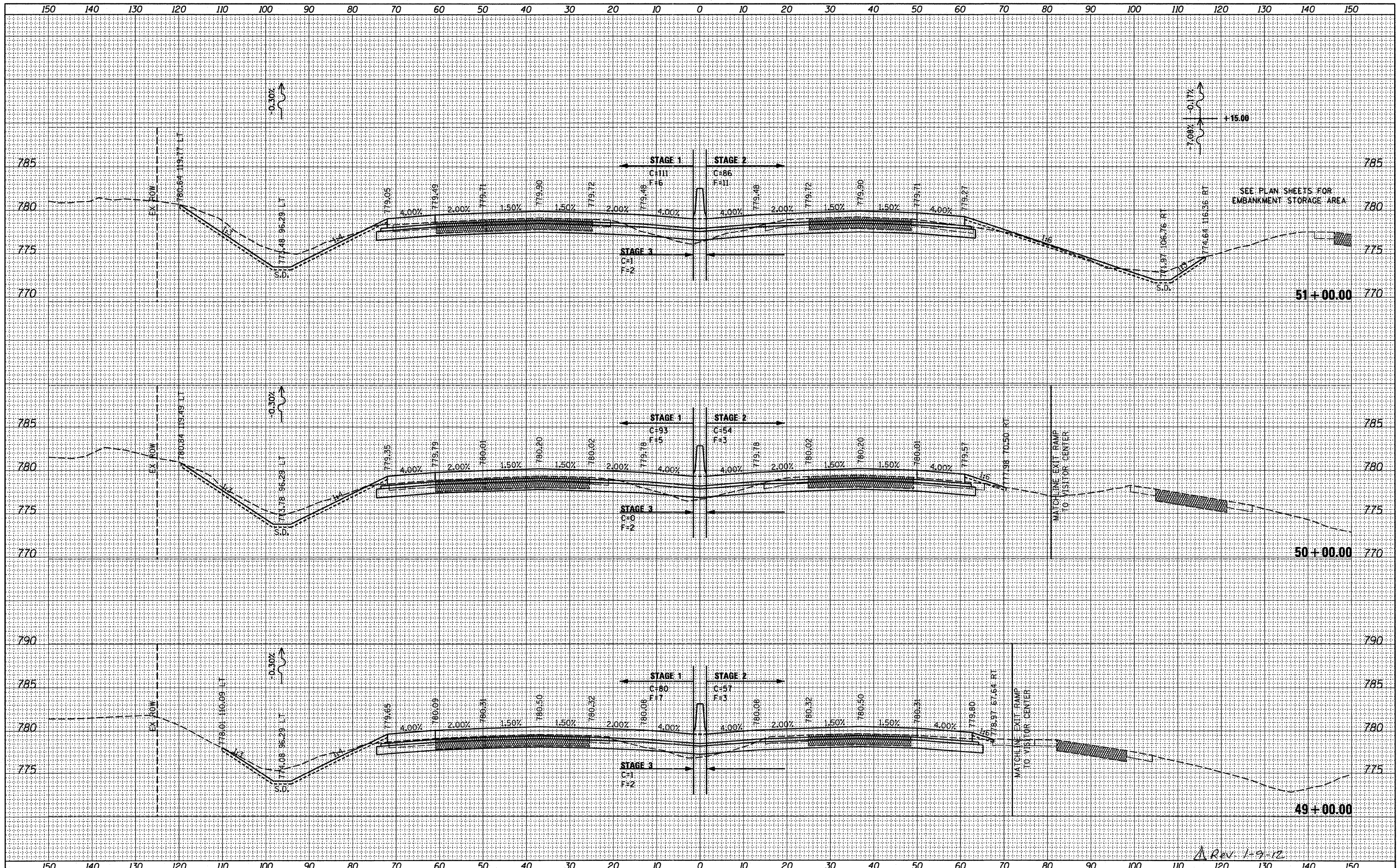
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE  
SPAN TYPE, "F" BARRIER FOUNDATION  
SHEET NO. 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	343
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



Rev 1-9-12

**McClure LOCHNER**  
Engineering Associates, Inc.  
**RVA**  
Regional Vendors & Associates, Inc.

USER NAME = USERNAME  
FILE NAME = #FILE#  
PLOT SCALE = 10.0000' / IN.  
PLOT DATE = 12/27/2011

DESIGNED -  
DRAWN - BSL  
CHECKED - PDS  
DATE - 10-21-2011

REVISED -  
REVISED -  
REVISED -  
REVISED -

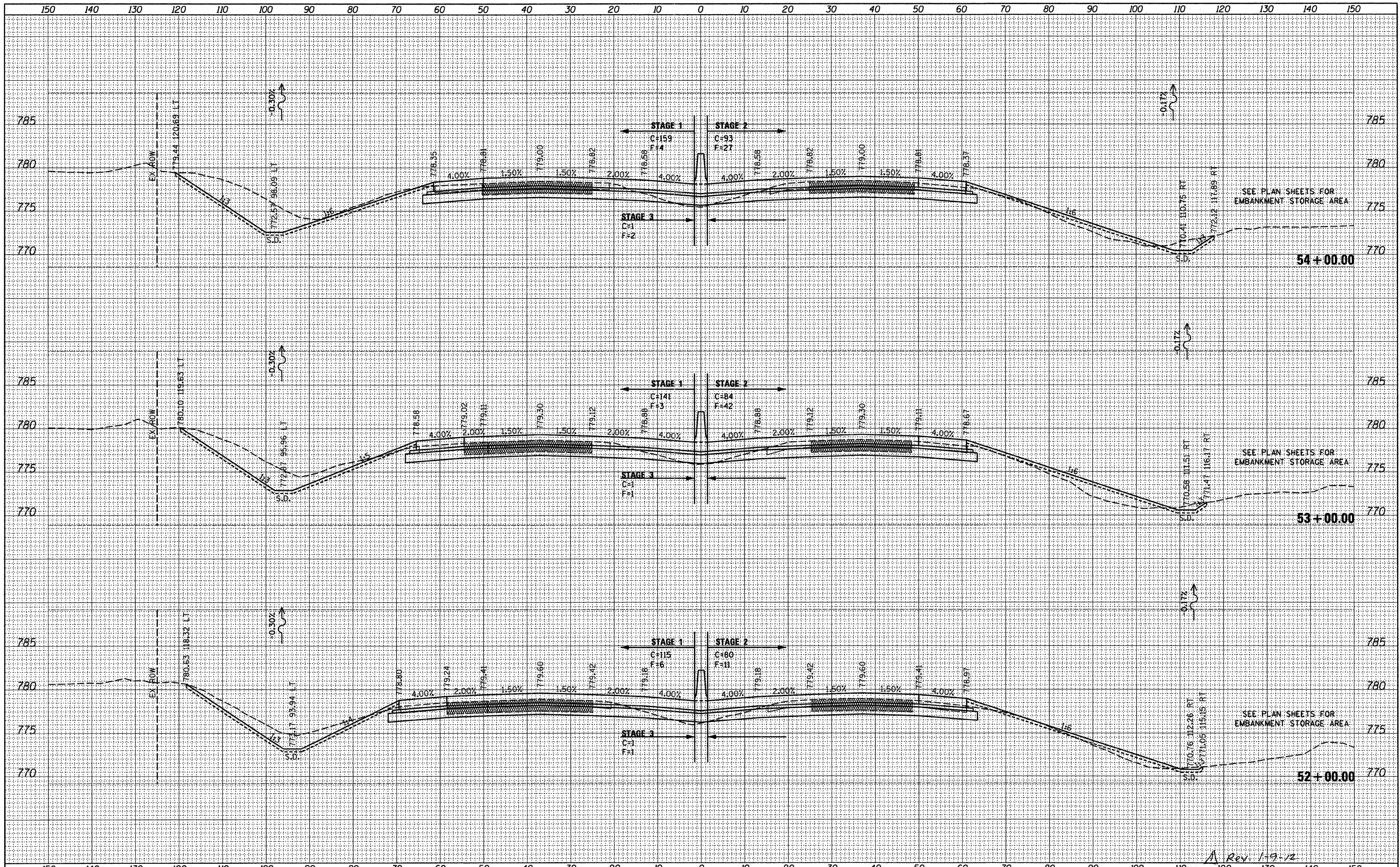
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 CROSS SECTIONS**  
SCALE: H: 1"=10'  
V: 1"=4'  
SHEET NO. OF SHEETS STA. 49+00.00 TO STA. 51+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	431
			CONTRACT NO. 64C29	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

Rev. 1-19-12

**McClure**  
Engineering & Construction, Inc.  
**LOCHNER**  
INC. CHICAGO, ILL. 60604

USER NAME = USERNAME	DESIGNED -	REVISED -
FILE NAME = *FILE*	DRAWN - BSL	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - PDS	REVISED -
PLOT DATE = 12/27/2011	DATE - 10-21-2011	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

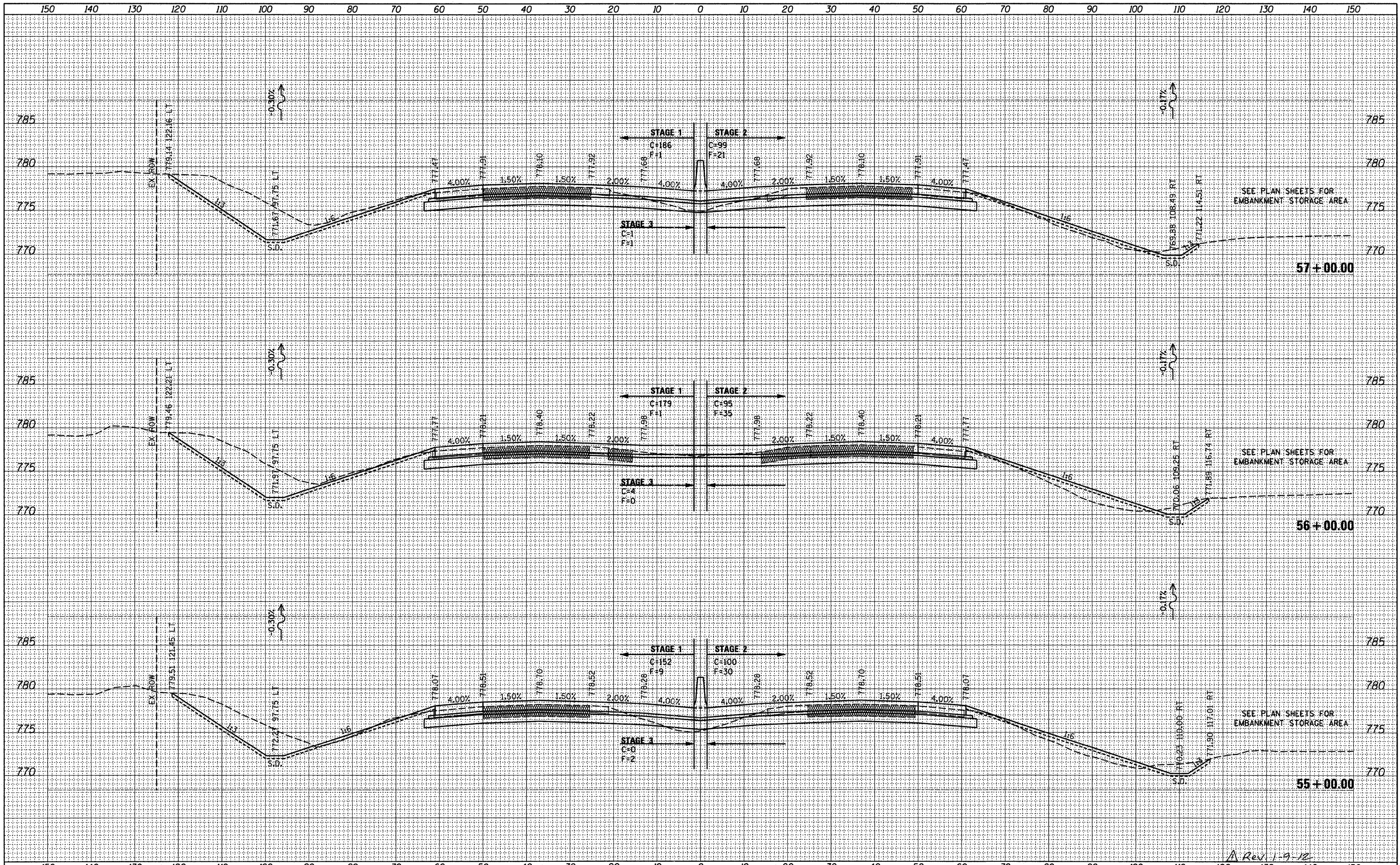
**I-90 CROSS SECTIONS**

SCALE: H: 1"=10'	SHEET NO. OF SHEETS	STA. 52+00.00 TO STA. 54+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	432
				CONTRACT NO. 64C29
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



A Rev. 1-9-12

**McClure LOCHNER**  
Engineering & Construction, Inc.  
**RWA**  
Regina Webster & Associates, Inc.

USER NAME =	USERNAME	DESIGNED -	REVISED -
FILE NAME =	FILE	DRAWN -	REVISED -
PLLOT SCALE =	10.0000' / IN.	CHECKED -	REVISED -
PLLOT DATE =	12/27/2011	DATE -	10-21-2011

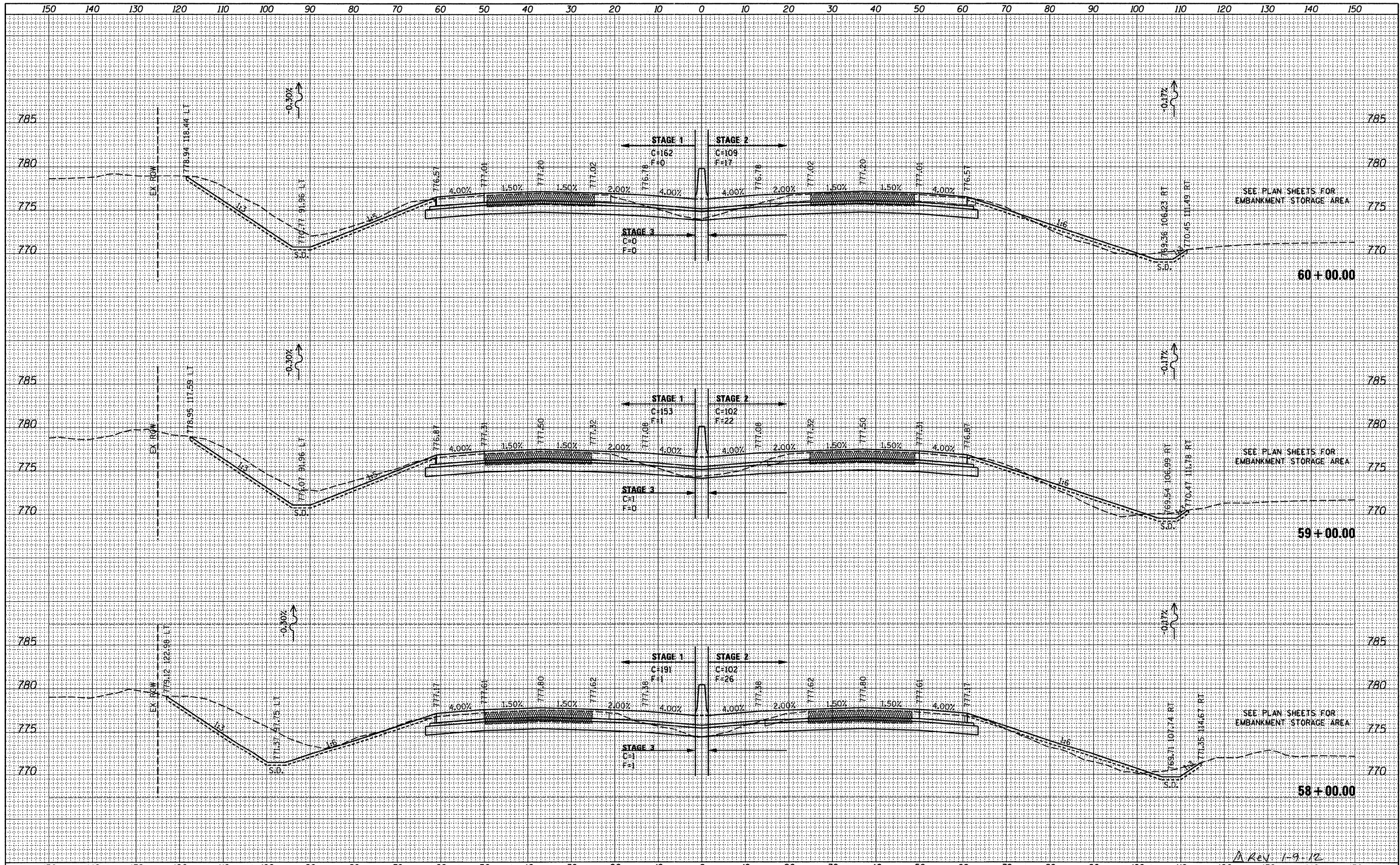
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>I-90 CROSS SECTIONS</b>			
SCALE: H <sub>v</sub> 1"=10'	SHEET NO.	OF	SHEETS
			STA. 55+00.00 TO STA. 57+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	433
				CONTRACT NO. 64C29
				ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AS CHECKED	
NO.	



SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

SEE PLAN SHEETS FOR EMBANKMENT STORAGE AREA

Rev 1-9-12

**McClure LOCHNER**  
Engineering Associates, Inc.  
**RVA**  
Regional Veterinary & Associates, Inc.

USER NAME =	USERNAME
FILE NAME =	*FILE*
PLOT SCALE =	10.0000 / IN.
PLOT DATE =	12/27/2011

DESIGNED -	BSL
DRAWN -	BSL
CHECKED -	PDS
DATE -	10-21-2011

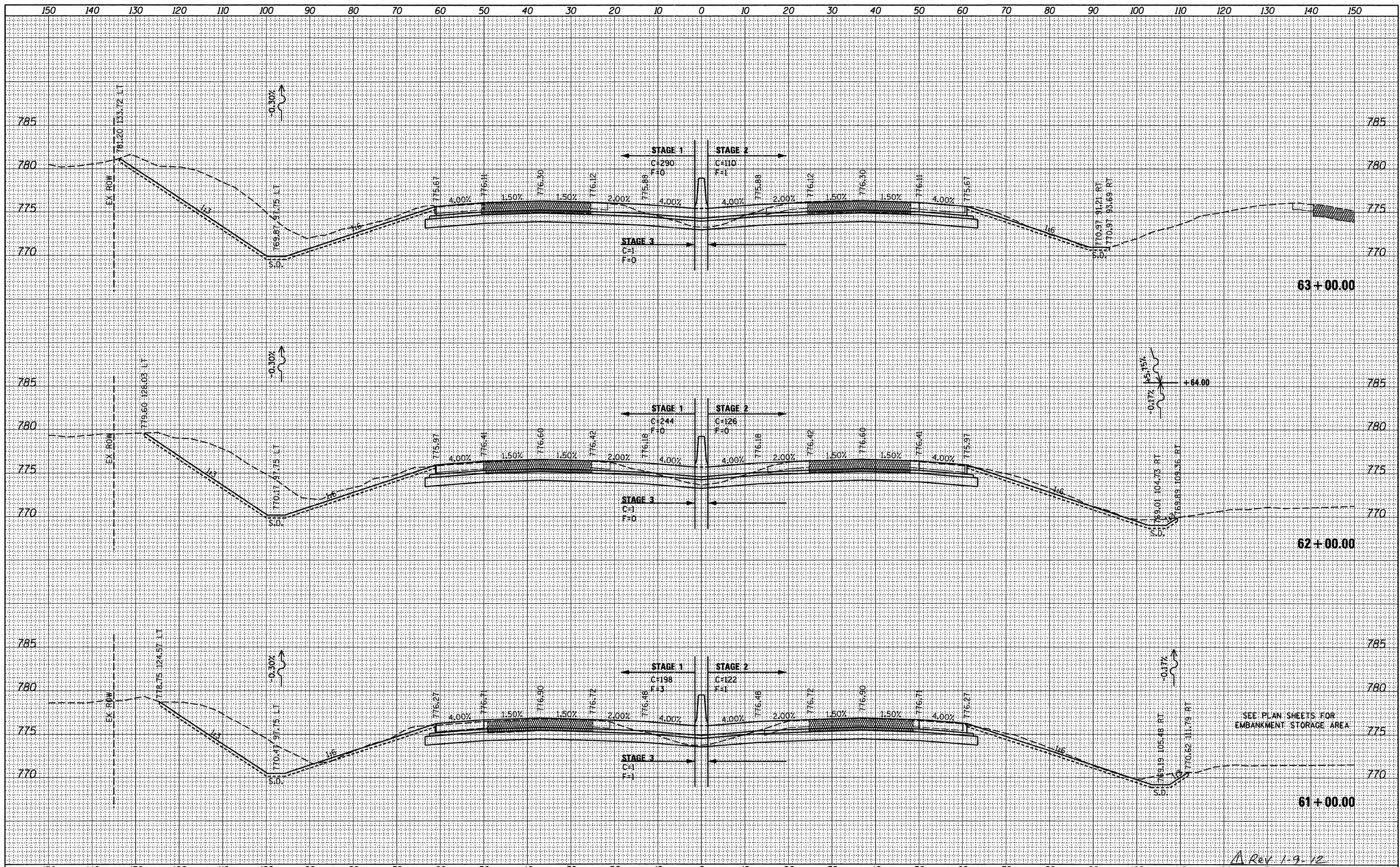
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>I-90 CROSS SECTIONS</b>			
SCALE: H: 1"=10'	V: 1"=25'	SHEET NO. OF SHEETS	STA. 58+00.00 TO STA. 60+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	434
			CONTRACT NO. 64C29	
[ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



**McClure**  
Engineering Associates, Inc.

**LOCHNER**  
SURVEYING & ENGINEERING, INC.

**RWA**  
REGISTERED PROFESSIONAL ENGINEER

**QEI**  
QUALITY ENGINEERING, INC.

USER NAME =	USERNAME	DESIGNED -	REVISED -
FILE NAME =	FILE	DRAWN -	REVISED -
PLOT SCALE =	10,0000' / IN.	CHECKED -	REVISED -
PLOT DATE =	12/27/2011	DATE -	10-21-2011

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>I-90 CROSS SECTIONS</b>	
SCALE: H: 1"=10'	V: 1"=2'
SHEET NO. OF SHEETS	STA. 61+00.00 TO STA. 63+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(X2-1) R	WINNEBAGO	510	435
CONTRACT NO. 64C29			ILLINOIS FED. AID PROJECT	

A Rev 1-9-12