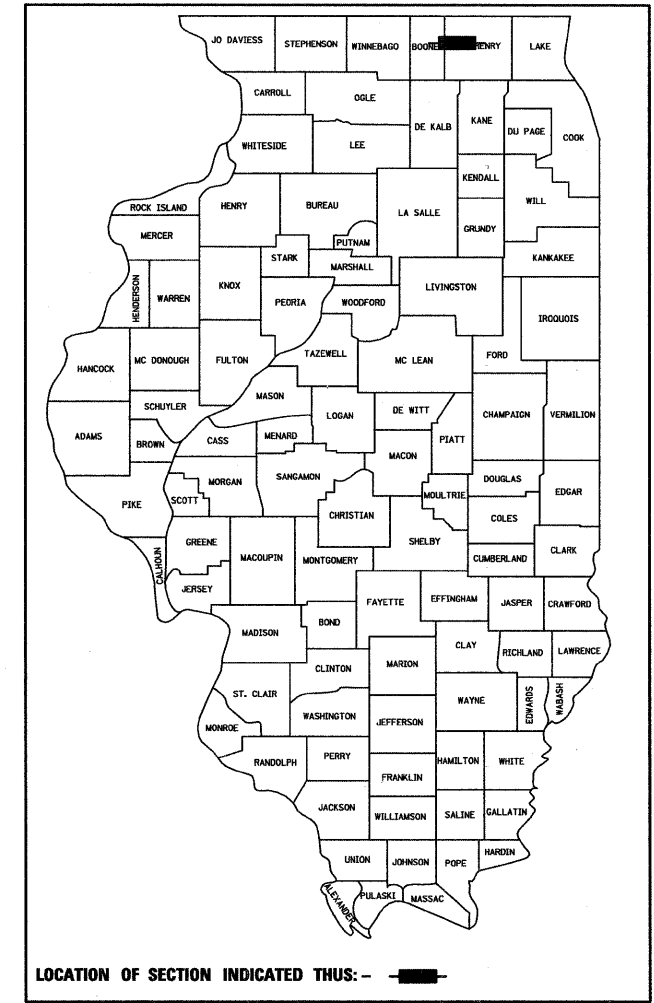


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60129		

D-91-012-10



LOCATION OF SECTION INDICATED THIS: - [shaded box] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE TOWNSHIP OF HEBRON

DESIGN DESIGNATION: 558(20) OTHER PRINCIPAL ARTERIAL

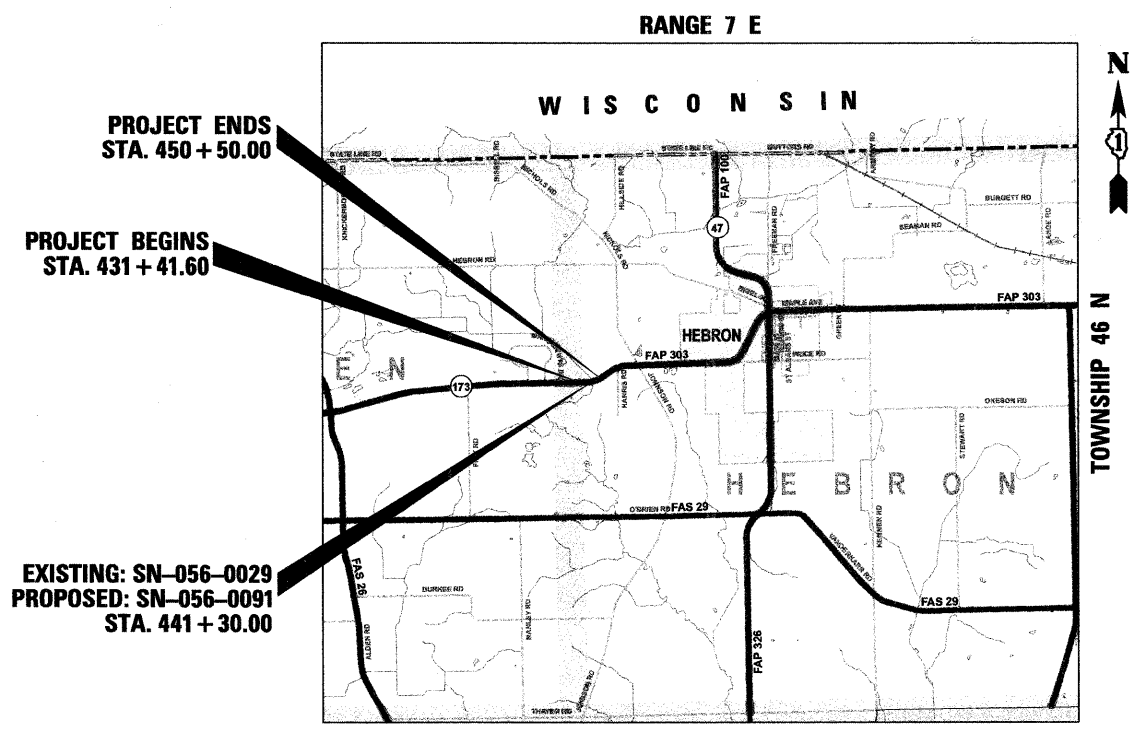
POSTED SPEED LIMIT: 55 MPH
 DESIGN SPEED LIMIT: 60 MPH
 ADT: 3,300 (2007) 5,500 (2021)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

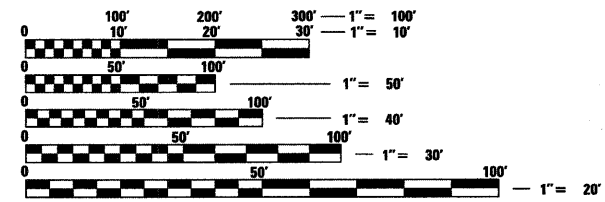
**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 303 (IL ROUTE 173)
 SECTION 132B-2
 OVER NIPPERSINK CREEK
 BRIDGE REPLACEMENT
 PROJECT NO. NHF-0303(052)
 McHENRY COUNTY
 C-91-012-10



HEBRON TOWNSHIP
 PROJECT NET AND GROSS LENGTH = 1908.4 LIN FT (0.36 MILE)

LOCATION MAP
 NOT TO SCALE

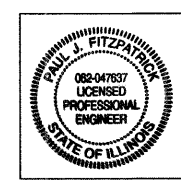


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: ISAAC KWARTENG, (847) 705-4230
 PROJECT ENGINEER: ALIX BRICE, (847) 705-4552

CONTRACT NO. 60129



December 13, 2010
Paul J. Fitzpatrick
 PAUL J. FITZPATRICK
 ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-047637
 EXPIRATION DATE 11-30-2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED December 14, 2010
Diana M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25, 2011
Scott E. Stitt, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 2011
Christine M. Reardon
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM MANUAL TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION; INTERIM SPECIAL PROVISIONS AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.

THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES, IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE STATE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

VERIZON NORTH	COMMONWEALTH EDISON CO.
AT&T	ANR PIPELINE CO.
NICOR	MEDIACOM

MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

SAW CUTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE RELATED WORK ITEM.

EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING. STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. STOCK PILING NECESSARY FOR RESPREADING IN SHOULDERS, CONSTRUCTING EMBANKMENTS, CUT OR BORROW AREAS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE FOR EARTH EXCAVATION.

ALL AGGREGATE AND HOT MIX ASPHALT BASE COURSES SHALL BE PRIMED. THIS WORK SHALL CONFORM TO THE APPROPRIATE ARTICLES OF SECTION 406 OF THE STANDARD SPECIFICATIONS. THE PRIME COAT FOR AGGREGATE SURFACES SHALL BE MC-30 APPLIED AT A RATE OF 0.30 GALLONS PER SQUARE YARD AND SS-1 APPLIED AT THE RATE OF 0.10 GALLONS PER SQUARE YARD FOR HMA BASES. WHEN THE PRIMED AREA IS TO BE OPEN TO TRAFFIC, A FINE AGGREGATE SHALL BE PLACED IMMEDIATELY AFTER THE PRIME COAT HAS BEEN APPLIED. THE FINE AGGREGATE SHALL CONFORM TO ARTICLES 406.06 OF THE STANDARD SPECIFICATIONS. THESE ITEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN COST OF HMA SURFACE COURSES.

REFLECTOR MARKERS TYPE C SHALL BE INSTALLED ON THE TOP OF TEMPORARY CONCRETE BARRIER WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE. THIS WORK WILL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER WALLS.

EMBANKMENT QUANTITIES FOR THE CONSTRUCTION OF THE TRAFFIC BARRIER TERMINALS AS SHOWN IN THE PLANS ARE INCLUDED IN QUANTITIES FOR EARTH EXCAVATION.

THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT) OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (FLARED).

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

ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILEFACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE RESIDENT ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT.

WHERE FIELD TILE IS ENCOUNTERED, STORM SEWER OR PIPE DRAIN WILL BE USED IN ACCORDANCE WITH SECTION 611. THE MINIMUM SIZE FOR REPLACEMENT WILL BE 6" FOR PIPE DRAINS AND 8" FOR STORM SEWER, BUT THE SIZE MUST BE AT LEAST 2" LARGER THAN THE ADJOINING TILE. A FIELD TILE JUNCTION VAULT WILL BE CONSTRUCTED AT THE RIGHT OF WAY TO CONNECT THE TILE AND STORM SEWER. SEE THE SUMMARY OF QUANTITIES FOR THE ESTIMATED QUANTITIES.

CULVERT AND BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5 1/2" HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2-LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS ON 4-LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 6" INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.

PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. BRIDGE PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE.

PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON HIGHWAY STANDARD 667101.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC TECHNICIAN AT 847-438-2300 A MINIMUM OF 2 WEEKS PRIOR TO PLACING PERMANENT MARKINGS OR PERMANENT SIGNING.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. FERTILIZER SHALL BE INCLUDED IN THE COST OF SEEDING OR SODDING.

REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON TOP OF THE BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE. TYPE B MARKERS WILL BE MEASURED FOR PAYMENT.

IN ADDITION TO LOCATIONS SPECIFIED IN STD. 635001, DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, HEADWALLS, END SECTIONS, AND CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.

RIGHT-OF-WAY MARKERS WILL BE ERECTED WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKERS WILL BE ERECTED 12" INSIDE THE NEW RIGHT-OF-WAY LINE.

IF EXCAVATION DEWATERING IS REQUIRED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE A DEWATERING PLAN. THE PLAN SHALL INCLUDE THE STRUCTURAL ITEMS REQUIRED TO TREAT THE DISCHARGE WATER IN ORDER TO REDUCE THE SUSPENDED SOLIDS BEFORE DISCHARGING INTO NIPPERSINK CREEK. THIS DEWATERING PLAN SHALL BE APPROVED BY THE REGULATORY AGENCY OVERSEEING SOIL EROSION AND SEDIMENT CONTROL AND INCLUDED IN THE SWPPP. ANY CHANGES TO THE PLAN DURING CONSTRUCTION SHALL BE REVIEWED AND APPROVED BY THE REGULATORY AGENCY. THE COST FOR DEWATERING WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES (IF RELATED TO EXISTING STRUCTURE REMOVAL) OR STRUCTURE EXCAVATION (IF RELATED TO THE CONSTRUCTION OF THE PROPOSED STRUCTURE).

PERMIT NOTES

A FLOODWAY PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO. SEE SPECIAL PROVISIONS.

THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER IN STREAM WORK BY THE CONTRACTOR; THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO COORDINATE AND HAVE HIS WORK PLAN APPROVED BY THE CORPS. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE [HTTP://WWW.LRC.USACE.ARMY.MIL/](http://www.lrc.usace.army.mil/)

A NPDES PERMIT IS REQUIRED FOR THIS JOB. THE NPDES PERMIT REQUIRES THAT A SWPPP BE PREPARED AND UPDATED, WHICH IS A SPECIAL PROVISION OF THIS PROJECT.

COMMITMENTS

THERE ARE SLIPPERSHELL MUSSELS IN THE NIPPERSINK CREEK AS SURVEYED BY INHS (REFER TO BIOLOGICAL REVIEW). THEY ARE A THREATENED SPECIES IN ILLINOIS AND REQUIRE PROTECTION. SILTATION OF THE CREEK NEEDS TO BE MINIMIZED. CARE SHALL BE TAKEN WHEN DISTURBING THE CREEK BED AND SIDE SLOPES. THE MUSSELS LIVE IN THE DIRT ON THE BOTTOM AND SIDE SLOPES OF THE CREEK. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ALL AREAS WHERE CONSTRUCTION RUNOFF MAY ENTER THE CREEK.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS AND COMMITMENTS
3-6	SUMMARY OF QUANTITIES
7-8	TYPICAL SECTIONS
9-15	SCHEDULE OF QUANTITIES
16	ALIGNMENT, TIES AND BENCHMARKS
17-18	PLAN & PROFILE
19-24	MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
25-28	MAINTENANCE OF TRAFFIC - PLANS
29	MAINTENANCE OF TRAFFIC - TEMPORARY BRIDGE TRAFFIC SIGNALS
30	MAINTENANCE OF TRAFFIC - STAGE 1 TEMPORARY SHEET PILING
31	EROSION CONTROL & LANDSCAPE PLAN
32-33	DRAINAGE PLAN & PROFILE
34	S.U.E. INVESTIGATION OF UNDERGROUND UTILITIES
35-43	PLAT OF HIGHWAYS
44	PAVEMENT JOINTING PLAN
45	PAVEMENT MARKING PLAN
46-67	BRIDGE PLANS
68-75	EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY
76-77	ROADWAY SOIL BORING LOGS
78	EROSION CONTROL DETAILS
79-94	DISTRICT 1 STANDARD DETAILS
95-100	CROSS SECTIONS - STAGE 1
101-106	CROSS SECTIONS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420001-07	PAVEMENT JOINTS
420101-04	24' (7.2 m) JOINTED PCC PAVEMENT
420111-03	PCC PAVEMENT ROUNDOUTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
483001-04	PCC SHOULDER
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
542406-01	METAL END SECTIONS FOR PIPE ARCHES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-01	SHOULDER RUMBLE STRIPS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT OF WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATION 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATION 2L, 2W, 4.5 M 15' TO 24' FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL ERECTION DETAILS

DISTRICT STANDARDS

INCLUDED AS PLAN SHEETS 78-94

STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5m)
BD-02	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15'(4.5m)
BD-03	OUTLET FOR CONCRETE CURB AND GUTTER
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-34	DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
BE-805a	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING
BE-805b	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING
BE-805c	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE - TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	ARTERIAL ROAD INFORMATION SIGN

FILE NAME = P:\CBBEL WEST Projects\2009\08-01\47_IL173\civil\gms\shk\060129_dht-genned.dgn



USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 2/9/2011	CHECKED - PJF	REVISED -
	DATE - 1/25/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES,
STATE STANDARDS AND COMMITMENTS

SCALE:	SHEET NO. 2 OF 106 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	2
CONTRACT NO.60129				

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						ROADWAY 0004 RURAL	BRIDGE 0011 RURAL		
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	513	513			
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	54	54			
		20200100	EARTH EXCAVATION	CU YD	2,950	2,950			
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,760	2,760			
		20400800	FURNISHED EXCAVATION	CU YD	5,140	5,140			
		20800150	TRENCH BACKFILL	CU YD	12	12			
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,730	5,730			
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	12,296	12,296			
		21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100	100			
S		25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25			
S		25000312	SEEDING, CLASS 4A	ACRE	1	1			
S		25100630	EROSION CONTROL BLANKET	SQ YD	5,513	5,513			
		25100900	TURF REINFORCEMENT MAT	SQ YD	6,872	6,872			
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,877	1,877			
	*	28000305	TEMPORARY DITCH CHECKS	FOOT	2,268	2,268			
		28000400	PERIMETER EROSION BARRIER	FOOT	4,826	4,826			
		28100107	STONE RIPRAP, CLASS A4	SQ YD	1,095	258		837	
		28200200	FILTER FABRIC	SQ YD	1,095	258		837	
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	2,045	2,045			
		35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	285	285			
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	254	254			
		40600990	TEMPORARY RAMP	SQ YD	29	29			
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	452	452			
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	347	347			
		42000411	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	SQ YD	4,492	4,492			
		42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	58	58			
		42101300	PROTECTIVE COAT	SQ YD	7,580	7,580			
		44000100	PAVEMENT REMOVAL	SQ YD	3,294	3,294			
		44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1,722	1,722			
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	181	181			
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	518	518			
		44004000	PAVED DITCH REMOVAL	FOOT	1,555	1,555			

FILE NAME = P:\CBEL\WEST Project\2009\09-0147_IL173\Civil\Drawings\Sheet\0160129-ah-5001.dgn

 WILLS BURKE KELSEY ASSOCIATES LTD. 110 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 3
	PLOT SCALE =	CHECKED - PJF	REVISED -					SCALE: SHEET NO. 3 OF 106 SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/6/2011	DATE - 12/14/10	REVISED -				CONTRACT NO. 60129						

URBAN
80% FED.
20% STATE

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						ROADWAY 0004 RURAL	BRIDGE 0011 RURAL		
		44004250	PAVED SHOULDER REMOVAL	SQ YD	387	387			
		44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	127	127			
		44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	24	24			
		48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	648	648			
		48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	90	90			
		48203031	HOT-MIX ASPHALT SHOULDERS, 8-1/2"	SQ YD	124	124			
		48300410	PORTLAND CEMENT CONCRETE SHOULDERS 9 1/2"	SQ YD	2,928	2,928			
	*	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
		50105220	PIPE CULVERT REMOVAL	FOOT	82	82			
		50200100	STRUCTURE EXCAVATION	CU YD	122		122		
		50300225	CONCRETE STRUCTURES	CU YD	63.7		63.7		
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	268.4		268.4		
		50300260	BRIDGE DECK GROOVING	SQ YD	626		626		
		50300280	CONCRETE ENCASEMENT	CU YD	6.2		6.2		
		50300300	PROTECTIVE COAT	SQ YD	724		724		
		50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	516.5		516.5		
	*	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	71,230		71,230		
		50800515	BAR SPLICERS	EACH	646		646		
		51201600	FURNISHING STEEL PILES HP12X53	FOOT	888		888		
	*	51202305	DRIVING PILES	FOOT	888		888		
		51203600	TEST PILE STEEL HP12X53	EACH	2		2		
		51500100	NAME PLATES	EACH	1		1		
		54215553	METAL END SECTIONS 18"	EACH	2	2			
		54215775	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2	2			
		542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	63	63			
		542D5485	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	46	46			
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	104		104		
		60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	5	5			
	*	60100915	PIPE DRAINS 6"	FOOT	50	50			
	*	60100925	PIPE DRAINS 8"	FOOT	50	50			
	*	60107600	PIPE UNDERDRAINS 4"	FOOT	528	528			
		60600095	CLASS SI CONCRETE (OUTLET)	CU YD	3.7	3.7			

FILE NAME = P:\CBBEL WEST Projects\2009\05-0147_IL173_Cvt1\09m\Shr\A\160129-shr-50102.dgn



USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE =	CHECKED - PJF	REVISED -
PLOT DATE = 1/6/2011	DATE - 12/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 106 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60I29	

URBAN
80% F&D
20% STATE

CONSTRUCTION CODE

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						ROADWAY 0004 RURAL	BRIDGE 0011 RURAL			
	*	61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2				
S		63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1,087.5	1,087.5				
S		63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4				
S	*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4				
		63200310	GUARDRAIL REMOVAL	FOOT	441	441				
		63500105	DELINEATORS	EACH	41	41				
		64200105	SHOULDER RUMBLE STRIPS	FOOT	3,429	3,429				
		66500105	WOVEN WIRE FENCE, 4'	FOOT	454	454				
		66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	20	20				
	*	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2				
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10				
		67100100	MOBILIZATION	L SUM	1	1				
		70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1				
		70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1				
		70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				
		70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1				
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14				
	*	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1				
	*	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6				
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4				
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,208	1,208				
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10,638	10,638				
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	80	80				
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,740	1,740				
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,925	1,925				
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,830	1,830				
		70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	87.5	87.5				
		70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2				
S		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2				
S		78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	9,240	9,240				
S		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	82	82				
S		78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	6	6				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 5 OF 106 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60I29	

URBAN
80% FED.
20% STATE

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						ROADWAY 0004 RURAL	BRIDGE 0011 RURAL		
S	*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	30	30			
S	*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6			
S	*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
	*	78300100	PAVEMENT MARKING REMOVAL	SQ FT	351	351			
		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8			
S		A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5			
S		A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5			
S		C2C01524	SHRUB, CORNUS RACEMOSA (GREY DOGWOOD), 2' HEIGHT, CONTAINER	EACH	120	120			
S	*	X0326276	TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SUM	1	1			
	*	X0326806	WASHOUT BASIN	L SUM	1	1			
Δ	*	X0549200	CLEANING PAVED DITCH	FOOT	340	340			
	*	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	202		202		
	*	X6063000	CONCRETE GUTTER, TYPE B (SPECIAL)	FOOT	418	418			
	*	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	7,738	7,738			
		Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	52		52		
	*	Z0004552	APPROACH SLAB REMOVAL	SQ YD	118	118			
	*	Z0004638	PAVEMENT BREAKING	SQ YD	3,100	3,100			
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	*	Z0022800	FENCE REMOVAL	FOOT	464	464			
	*	Z0026407	TEMPORARY SHEET PILING	SQ FT	5,783	4,545	1,238		
	*	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4			
S	*	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52			
	*	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,910	1,910			
	*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	130		130		
	*	Z0062456	TEMPORARY PAVEMENT	SQ YD	1,372	1,372			
	*	Z0076600	TRAINEES	HOUR					

Δ = NON-PARTICIPATING

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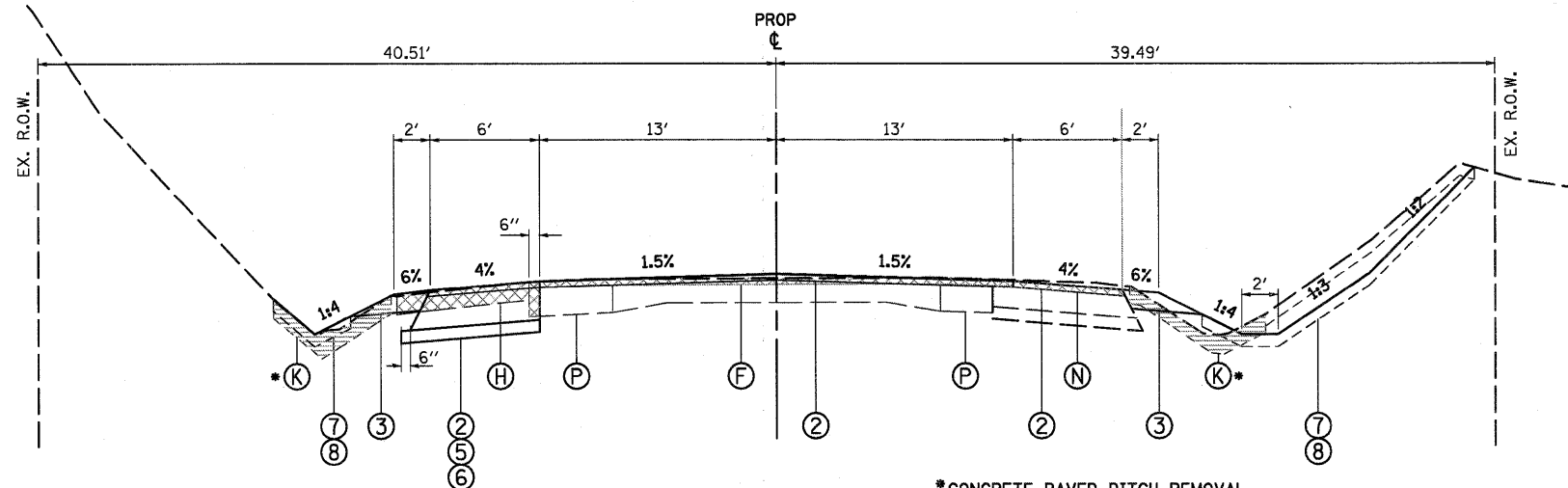


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PLOT DATE = 1/28/2011	CHECKED - PJF	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 6 OF 106 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	6
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



***CONCRETE PAVED DITCH REMOVAL**
STA. 432+41.60 TO STA. 432+31.18

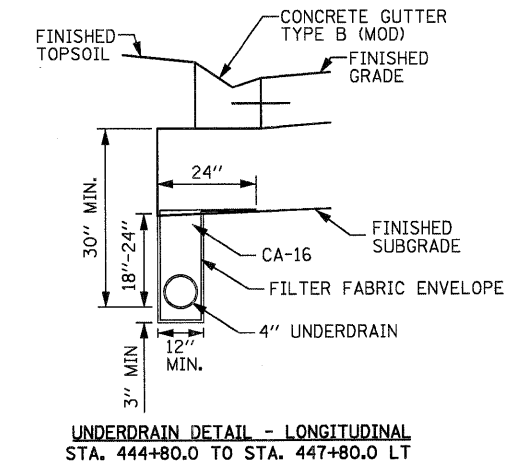
ILLINOIS ROUTE 173
STA. 429+80.00 TO STA. 432+31.18
STA. 449+53.82 TO STA. 451+97.00

STRUCTURAL PAVEMENT DESIGN - HMA TEMP. PAVEMENT

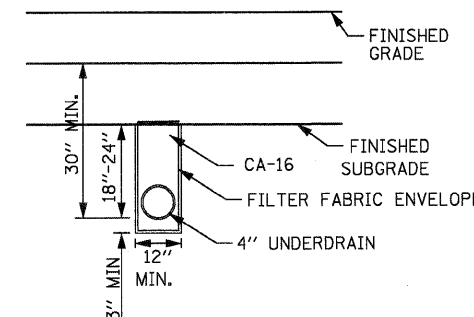
STRUCTURAL DESIGN TRAFFIC: Year 2010
PV = 3219 SU = 259 MU = 222
ROAD/STREET CLASSIFICATION: Class 2
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 87 S = 7 M = 6
TRAFFIC FACTOR: Actual TF = 0.12
Minimum TF = N/A
PG GRADE: Binder = PG 58-22 Surface = PG 64-22/58-22
SUBGRADE SUPPORT RATING: SSR = POOR

STRUCTURAL PAVEMENT DESIGN-PCC

STRUCTURAL DESIGN TRAFFIC: Year 2021
PV = 4785 SU = 385 MU = 330
ROAD/STREET CLASSIFICATION: Class 2
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 87 S = 7 M = 6
TRAFFIC FACTOR: Actual TF = 4.8
Minimum TF = 11.02
EDGE SUPPORT CONDITION: UNTIED
SUBGRADE SUPPORT RATING: SSR = POOR



UNDERDRAIN DETAIL - LONGITUDINAL
STA. 444+80.0 TO STA. 447+80.0 LT



UNDERDRAIN DETAIL - TRANSVERSE
STA. 436+63.1, 439+04.7, 443+00.0, 444+80.0, & 447+80.0

UNDERDRAIN NOTES

- PIPE UNDERDRAINS TO BE PLACED AS INDICATED ON THE PLANS.
- CAPS, PLUGS, WYES, AND TEES ARE CONSIDERED INCLUDED IN THE COST OF THE UNDERDRAINS.
- ALL END RUNS SHALL HAVE A CAP OR PLUG.
- UNDERDRAINS SHALL BE CONNECTED AS SHOWN ON THE PLANS WHICH COST IS INCLUDED IN THE COST OF THE UNDERDRAINS.
- UNDERDRAIN MATERIAL SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING.
- EXCAVATION, FABRIC AND POROUS GRANULAR BACKFILL AS SPECIFIED SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.

LEGEND, EXISTING

- (A) EXISTING PCC PAVEMENT, 9"-6"-9"
- (B) EXISTING HMA OVERLAY, 4"
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT STRUCTURE - FULL DEPTH REMOVAL
- (F) EXISTING PAVEMENT STRUCTURE - SURFACE MILLING
- (G) EXISTING PAVEMENT STRUCTURE - PAVEMENT BREAKING
- (H) EXISTING HMA SHOULDER - TO BE REMOVED
- (J) EXISTING AGGREGATE SHOULDER - TO BE REMOVED
- (K) EXISTING CONCRETE PAVED DITCH TO BE REMOVED
- (L) EXISTING CURB AND GUTTER TO BE REMOVED
- (M) TEMPORARY PAVEMENT - FULL DEPTH REMOVAL
- (N) TEMPORARY PAVEMENT - SURFACE MILLING
- (O) TEMPORARY PAVEMENT - PAVEMENT BREAKING
- (P) EXISTING HMA WIDENING, 9"

LEGEND, PROPOSED

- (1) PCC PAVEMENT, 9/2" (JOINTED)
- (2) 2" HMA SURFACE COURSE, MIX "D", N50
- (3) AGGREGATE SHOULDER, TYPE B, 6"
- (4) AGGREGATE SUBGRADE (12")
- (5) HOT-MIX ASPHALT SHOULDERS, 8/2"
- (6) AGGREGATE BASE COURSE, TYPE B, 4"
- (7) TOPSOIL FURNISH AND PLACE, 6"
- (8) SEEDING CLASS 2A OR 4A W/ EROSION CONTROL BLANKET
- (9) STEEL PLATE BEAM GUARDRAIL, TYPE A (6' POSTS)
- (10) CONCRETE GUTTER, TYPE B (MODIFIED)
- (11) SAWCUT - FULL DEPTH (INCLUDED IN COST OF WORK ITEM)
- (12) PCC SHOULDER, 9/2"
- (13) #6 TIE BARS (INCLUDED IN COST OF PCC PAVEMENT, SHOULDER OR CURB)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
TEMPORARY PAVEMENT WIDENING - STAGE 1A (SEE NOTE 3)	
TEMP PAVEMENT (HMA BINDER IL-19 mm), 7"	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 1-1/2"	4% @ 50 GYR.
TEMPORARY OVERLAY - STAGE 1C	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 1-1/2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 2-1/4"	4% @ 50 GYR.
TEMPORARY RAMP	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 1-1/2 "	4% @ 50 GYR.
ROADWAY RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 GYR.
SHOULDERS	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 8-1/2"	2% @ 30 GYR.
DRIVEWAYS P.E.	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 6"	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQYD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
- IF CONTRACTOR CHOOSES TO USE CONCRETE FOR THE TEMPORARY PAVEMENT THE THICKNESS WILL BE 8-1/2 INCHES.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET NO. 7 OF 106 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	7
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
12	431+80.00	40		MS - 6", 6"
8	432+05.00	40		8.0
12	432+11.00	40		MS-7.5", 4.5"
12	432+12.00	35		MS-6", 6"
7.5	432+30.00	35		7.5
9.0	432+40.00	30		9.0
13.5	432+45.00	38		13.5
18.5	432+55.00		38	MS- 9", 9.5"
12	432+65.00		38	MS- 7", 5"
7.0	432+70.00	35		7.0
16.5	432+82.00		40	MS- 12.5", 4"
6.0	432+85.00	37		6.0
15.5	433+20.00		42	MS- 8.5", 7"
13.5	433+24.00		39	MS- 7", 6.5"
6	433+30.00		39	6.0
14.5	433+35.69		39.4	14.5
8	433+47.00		38	8.0
23.5	435+55.00		42	MS-13", 10.5"
12	435+63.00		45	12.0
9.5	435+72.00		50	9.5
8	435+75.00		45	8.0
13.0	435+85.00		50	13.0
12.0	435+87.00		45	12.0
8.0	435+93.00		50	8.0
11.5	435+95.00		48	MS- 6", 5.5"
22.5	435+98.00		45	MS- 7.5", 7.5", 7.5"
8.5	436+14.00		44	8.5
8.0	436+30.00		44	8.0
13.0	436+55.00		44	13.0
6.5	436+61.00		50	6.5
21.5	436+72.00		44	MS- 14", 7.5"
8.0	436+77.00		50	8.0
13.0	436+86.00		42	13.0
7.5	436+92.00		50	7.5
10.0	437+08.00		48	10.0
6.0	437+20.00		50	6.0
6.5	437+28.00		47	6.5
12.0	437+35.00		48	12.0
26	438+10.00	36		MS- 5.5", 6", 5", 5", 3.5"
6	440+29.08	35.0		6.0
12.0	443+69.24		55.3	12.0
5.0	443+72.00		59	5.0
6	444+00.00	35		6
6.5	444+65.00		53	6.5
7.0	444+72.00		55	7.0
12.0	446+15.00		55	12.0

513 TOTAL

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (RT)	SIZE (IN.)	REMARKS
15.5	437+35.00	43	15.5	
17.5	444+44.84	56.9	17.5	
20.5	447+20.00	52	20.5	

54 TOTAL

20800150 TRENCH BACKFILL

LOCATION	DESCRIPTION	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CU YD)
435+14.14	30" EQ. ROUND SIZE CULVERT	20.0	4.5	1.4	4.7
443+90	18" DIA CULVERT	20.0	3.0	2.9	6.4

TOTAL 12.0

21301052 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION	TO	REMARKS
100	935+80.00	950+92.00	AS DIRECTED BY R.E.

100 TOTAL

44000500 COMBINATION CURB AND GUTTER REMOVAL

FOOT	LOCATION	TO	REMARKS
61	LT. STA.	444+38.80	444+98.90
457	RT. STA.	444+98.90	449+55.90

518 TOTAL

44004000 PAVED DITCH REMOVAL

FOOT	LOCATION	TO	REMARKS
374	LT. STA.	431+16.60	434+89.80
448	RT. STA.	431+41.60	435+89.03
152	LT. STA.	435+34.10	436+85.30
10	LT. STA.	442+40.62	442+50.00
192	LT. STA.	442+50.00	444+41.65
379	RT. STA.	442+88.22	446+66.62

1555 TOTAL

50105220 PIPE CULVERT REMOVAL

FOOT	LOCATION	TO	REMARKS
45	LT. STA.	434+89.80	435+34.10 DRIVEWAYS
37	RT. STA.	442+52.30	442+89.30

82 TOTAL

54215553 METAL END SECTIONS 18"

EACH	LOCATION	RT	REMARKS
1	443+49.92	RT	
1	444+16.09	RT	

2 TOTAL

54215775 METAL END SECTIONS, EQUIVALENT ROUND-SIZE 30"

EACH	LOCATION	LT	REMARKS
1	434+84.34	LT	
1	435+38.63	LT	

2 TOTAL

542D1063 PIPE CULVERTS, CLASS D, TYPE 2 18"

FOOT	LOCATION	REMARKS
63	443+90	LOCATED AT ENTRANCE

63 TOTAL

542D5485 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"

FOOT	LOCATION	LT	REMARKS
46	435+14.1	LT	LOCATED AT DRIVEWAY

46 TOTAL

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PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 9	OF 106 SHEETS	STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 9
CONTRACT NO. 60129				
ILLINOIS FED. AID PROJECT				

60100060 CONCRETE HEADWALL FOR PIPE DRAINS				
EACH	LOCATION			REMARKS
1	LT. STA. & OFFSET	436+62.90	35.0	TRANSVERSE UNDERDRAINS
1	RT. STA. & OFFSET	436+63.10	35.6	
1	LT. STA. & OFFSET	439+04.70	32.8	
1	LT. STA. & OFFSET	443+00.00	32.9	
1	LT. STA. & OFFSET	444+80.00	34.9	
5	TOTAL			

63200310 GUARDRAIL REMOVAL				
FOOT	LOCATION			REMARKS
126	LT. STA.	439+79.80	TO	441+08.50
126	RT. STA.	439+86.60	TO	441+09.70
126	LT. STA.	441+85.20	TO	443+12.50
63	RT. STA.	441+83.90	TO	442+46.70
441	TOTAL			

60107600 PIPE UNDERDRAINS 4"				
FOOT	LOCATION			REMARKS
64	436+63.10			TRANSVERSE UNDERDRAINS
44	439+04.72			
44	443+00.00			
46	444+80.00			
33	447+80.00			
297	444+80.00	TO	447+80.00	LONGITUDINAL UNDERDRAIN
528	TOTAL			

63500105 DELINEATORS				
EACH	LOCATION			REMARKS
2	431+50.00			
2	434+50.00			
2	436+50.00			
2	438+50.00			PC (448+55.37)
2	439+75.00			
2	441+00.00			
2	442+25.00			
2	443+50.00			
2	444+75.00			
2	446+00.00			
2	447+25.00			
2	448+50.00			PT (448+44.54)
2	450+50.00			
2	452+50.00			
1	435+75.00	RT. STA.		GUARDRAIL TERMINAL
1	435+75.00	LT. STA.		GUARDRAIL TERMINAL
1	443+65.70	RT. STA.		GUARDRAIL TERMINAL
1	444+64.70	LT. STA.		GUARDRAIL TERMINAL
1	434+32.00	LT. STA.		CULVERT
1	435+33.00	LT. STA.		CULVERT
1	443+46.00	RT. STA.		CULVERT
1	444+16.00	RT. STA.		CULVERT
1	436+62.90	LT. STA.		HEADWALL
1	436+63.10	RT. STA.		HEADWALL
1	439+04.70	LT. STA.		HEADWALL
1	443+00.00	LT. STA.		HEADWALL
1	444+80.00	LT. STA.		HEADWALL
41	TOTAL			

60600095 CLASS SI CONCRETE (OUTLET)				
LOCATION		FOOT	CU YD	COMMENT
445+43.98	19' LT	VAR	1.90	A-A TO E-E
		18	1.22	E-E TO F-F
449+53.82	19' LT	VAR	0.22	C-C to B'-B'
		4	0.30	B'-B' to End
TOTAL =			3.7	

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA.				
EACH	LOCATION			REMARKS
2	430+41.60	TO	450+50.20	FIELD TILE REPAIR AS DIRECTED BY R.E.
2	TOTAL			

63000001 STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS				
FOOT	LOCATION			REMARKS
400.0	LT. STA.	436+25.70	TO	440+27.80
187.5	LT. STA.	442+32.10	TO	444+22.00
412.5	RT. STA.	436+20.10	TO	440+30.30
87.5	RT. STA.	442+29.90	TO	443+16.30
1,087.5	TOTAL			

64200105 SHOULDER RUMBLE STRIP				
FOOT	LOCATION			REMARKS
344	LT. STA.	431+41.60	TO	434+85.04
521	LT. STA.	435+35.10	TO	440+55.54
928	RT. STA.	431+29.02	TO	440+56.80
584	LT. STA.	442+04.35	TO	447+88.05
232	LT. STA.	448+18.85	TO	450+50.00
176	RT. STA.	442+03.29	TO	443+78.58
644	RT. STA.	444+06.10	TO	450+50.00
3,429	TOTAL			

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6				
EACH	LOCATION			REMARKS
1	LT. STA.	440+27.80	TO	440+71.50
1	RT. STA.	440+30.30	TO	440+73.00
1	LT. STA.	441+88.40	TO	442+32.10
1	RT. STA.	441+87.20	TO	442+29.90
4	TOTAL			

66500105 WOVEN WIRE FENCE, 4'				
FOOT	LOCATION			REMARKS
207	LT. STA.	439+11.50	TO	441+23.90
247	LT. STA.	441+44.40	TO	444+00.00
454	TOTAL			

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT				
EACH	LOCATION			REMARKS
1	LT. STA.	435+75.70	TO	436+25.70
1	RT. STA.	435+70.10	TO	436+20.10
1	LT. STA.	444+22.00	TO	444+72.00
1	RT. STA.	443+16.30	TO	443+66.30
4	TOTAL			

FILE NAME = P:\CUBBEL WEST Projects\2009\8P-0147_IL173\Civil\Drawn\SH\0160129-0147-01-01.dgn

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION	REMARKS
1	40.62' LT. STA. 439+11.57	RM1
1	48.5' LT. STA. 439+11.88	RM2
1	48.5' LT. STA. 441+01.59	RM3
1	41.27' LT. STA. 441+01.59	RM4
1	41.38' LT. STA. 441+70.81	RM5
1	63.50' LT. STA. 441+70.81	RM6
1	63.50' LT. STA. 444+89.60	RM7
1	41.12' LT. STA. 444+89.60	RM8
1	39.60' RT. STA. 435+50.00	RM9
1	53.50' RT. STA. 435+50.00	RM10
1	53.50' RT. STA. 438+50.00	RM11
1	58.50' RT. STA. 438+50.00	RM12
1	58.50' RT. STA. 441+03.22	RM13
1	38.73' RT. STA. 441+03.22	RM14
1	38.62' RT. STA. 441+68.62	RM15
1	58.50' RT. STA. 441+68.62	RM16
1	58.50' RT. STA. 447+75.00	RM17
1	48.50' RT. STA. 447+75.00	RM18
1	48.50' RT. STA. 448+70.00	RM19
1	40.75' RT. STA. 448+70.00	RM20
20	TOTAL	

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	REMARKS
1	CL STA. 438+55.37	PC STATION
1	CL STA. 448+44.54	PT STATION
2	TOTAL	

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH	LOCATION	REMARKS
1	LT./RT. 428+29.00 TO 453+65.00	STAGES 1 AND 2
1	TOTAL	

70106700 TEMPORARY RUMBLE STRIP

EACH	LOCATION	REMARKS
1	STA. 412+80.00	STAGE 1 & STAGE 2
1	STA. 417+80.00	
1	STA. 422+80.00	
1	STA. 458+97.00	
1	STA. 463+97.00	
1	STA. 468+97.00	
6	TOTAL	

70300100 SHORT-TERM PAVEMENT MARKING

FOOT	LOCATION	REMARKS
238	CL STA. 429+40.00	TO 442+50.00 STAGE 3- DOUBLE 4" SKIP-DASH
104	LT./RT. STA. 429+40.00	TO 442+50.00 STAGE 3 - SINGLE 4" WHITE EDGE (2 SIDES)
182	CL STA. 442+50.00	TO 452+50.00 STAGE 3- DOUBLE 4" SKIP-DASH
80	LT./RT. STA. 442+50.00	TO 452+50.00 STAGE 3 - SINGLE 4" WHITE EDGE (2 SIDES)
604	SUB-TOTAL APPLICATIONS	
1,208	TOTAL	

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	REMARKS
888	LT./RT. STA. 429+80.14	TO 433+50.00 SINGLE EDGE LINE - WHITE STAGE 1
3,600	LT./RT. STA. 433+50.00	TO 448+50.00 SINGLE EDGE LINE - WHITE
831	LT./RT. STA. 448+50.00	TO 451+96.38 SINGLE EDGE LINE - WHITE
888	LT./RT. STA. 429+80.14	TO 433+50.00 SINGLE EDGE LINE - WHITE STAGE 2
3,600	LT./RT. STA. 433+50.00	TO 448+50.00 SINGLE EDGE LINE - WHITE
831	LT./RT. STA. 448+50.00	TO 451+96.38 SINGLE EDGE LINE - WHITE
10,638	TOTAL	

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	LOCATION	REMARKS
12	11.5' RT. STA. 429+80.14	STAGE 1- STOP BAR -WHITE
12	LT. STA. 451+96.38	STAGE 1- STOP BAR -WHITE
16	LT. STA. 434+14.14	STAGE 1- STOP BAR -WHITE DRIVEWAY
12	11.5' RT. STA. 429+80.14	STAGE 2- STOP BAR -WHITE
12	LT. STA. 451+96.38	STAGE 2- STOP BAR -WHITE
16	LT. STA. 434+14.14	STAGE 1- STOP BAR -WHITE DRIVEWAY
80	TOTAL	

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

LENGTH (FT)	WIDTH (INCHES)	SQ FT	LOCATION	REMARKS
222	4	74.0	LT./RT. STA. 429+80.00	TO 432+02.00 REM STG 1 MARKING 4"
228	4	76.0	LT./RT. STA. 449+69.00	TO 451+97.00 REM STG 1 MARKING 4"
2217	4	739.0	LT./RT. STA. 429+80.00	TO 451+97.00 REM STG 2 NORTH SIDE 4"
2217	4	739.0	LT./RT. STA. 429+80.00	TO 451+97.00 REM STG 2 SOUTH SIDE 4"
33	24	66.0	LT./RT. STA. 434+97.00	TO 435+30.00 ENT DRIVE LT STOP BAR
11	24	22.0	LT./RT. STA. 429+80.00	TO 429+80.00 WEST END STOP BAR
12	24	24.0	LT./RT. STA. 451+97.00	TO 451+97.00 EAST END STOP BAR
1,740	TOTAL			

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
112.5	4.0' LT. STA. 431+27.64	TO 432+40.14 TAPER SECTION - STAGE 1
225.0	5.0' RT. STA. 432+40.14	TO 434+67.22 TANGENT SECTION - STAGE 1
100.0	5.0' RT. STA. 434+67.22	TO 435+62.14 TANGENT SECTION - STAGE 2
1,375.0	5.0' RT. STA. 435+62.14	TO 449+30.14 TANGENT SECTION - STAGE 3
112.5	4.0' LT. STA. 449+30.14	TO 450+42.64 TAPER SECTION - STAGE 1
1,925	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
112.5	4.0' LT. STA. 431+27.64	TO 432+40.14 TAPER SECTION - STAGE 1
225.0	5.0' RT. STA. 432+40.14	TO 434+67.22 TANGENT SECTION - STAGE 1
1,375.0	5.0' RT. STA. 435+62.14	TO 449+30.14 TANGENT SECTION - STAGE 1
112.5	4.0' LT. STA. 449+30.14	TO 450+42.64 TAPER SECTION - STAGE 1
1,830	TOTAL	

70500100 TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A

FOOT	LOCATION	REMARKS
75.0	RT SIDE, WEST OF BRIDGE	MAY NOT BE REQUIRED - TO BE FIELD DETERMINED
12.5	RT SIDE, EAST OF BRIDGE	MAY NOT BE REQUIRED - TO BE FIELD DETERMINED
87.5	TOTAL	

FILE NAME = P:\CBBEL\WEST Projects\2009\99-9147_IL173\CV11\09n\SHA\0168129-ent-schedule3.dgn



USER NAME = *USER*	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 11	OF 106 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	11
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

70500615 TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1		
EACH	LOCATION	REMARKS
1.0	RT SIDE, WEST OF BRIDGE	REQUIRED
1.0	RT SIDE, EAST OF BRIDGE	MAY NOT BE REQUIRED - TO BE FIELD DETERMINED
2.0	TOTAL	

72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A		
EACH	LOCATION	REMARKS
1	RT. 433+99.00	
1	RT. 438+54.30	
2	TOTAL	

78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"				
FOOT	LOCATION			REMARKS
2310	LT. STA 429+40.00	TO	452+50.00	WHITE EDGE LINE
2310	RT. STA 429+40.00	TO	452+50.00	WHITE EDGE LINE
4620	CL STA. 429+40.00	TO	452+50.00	DOUBLE YELLOW CENTERLINE
9240	TOTAL			

78100100 RAISED REFLECTIVE PAVEMENT MARKER				
EACH	LOCATION			REMARKS
24	429+40.00	TO	438+55.40	80 FOOT SPACING
12	438+55.37	TO	440+86.20	40 FOOT SPACING ON CURVE
34	442+03.80	TO	448+44.50	40 FOOT SPACING ON CURVE
12	448+44.50	TO	452+50.00	80 FOOT SPACING
82	TOTAL			

78100105 RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)				
EACH	LOCATION			REMARKS
6	440+92.61	TO	441+80.20	40 FOOT SPACING ON CURVE
6	TOTAL			

78200410 GUARDRAIL MARKERS, TYPE A				
EACH	LOCATION			REMARKS
3	LT. STA. 436+25.00	TO	438+55.40	80 FOOT SPACING
6	LT. STA. 438+55.40	TO	440+71.50	40 FOOT SPACING
3	RT. STA. 436+25.00	TO	438+55.40	80 FOOT SPACING
6	RT. STA. 438+55.40	TO	440+73.00	40 FOOT SPACING
2	RT. STA. 441+94.48	TO	443+15.70	80 FOOT SPACING
6	LT. STA. 441+88.40	TO	444+14.70	40 FOOT SPACING
4	RT. STA. 441+87.20	TO	443+15.70	40 FOOT SPACING
30	TOTAL			

78200520 BARRIER WALL MARKERS, TYPE B				
EACH	LOCATION			REMARKS
3	LT. STA. 440+92.09	TO	441+80.73	2 MARKERS AT EACH INTERVAL
3	RT. STA. 440+93.15	TO	441+79.67	
6	TOTAL			

78201000 TERMINAL MARKER - DIRECT APPLIED		
EACH	LOCATION	REMARKS
1	RT. STA. 443+65.70	
1	LT. STA. 444+64.70	
1	LT. STA. 435+75.00	
1	RT. STA. 435+75.00	
4	TOTAL	

78300100 PAVEMENT MARKING REMOVAL						
LENGTH (FEET)	WIDTH (INCHES)	SQ FT	LOCATION			REMARKS
260	8.0	173	429+80.00	TO	432+40.00	DOUBLE 4" CENTERLINE
267	8.0	178	449+30.00	TO	451+97.00	DOUBLE 4" CENTERLINE
		351	TOTAL			

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL				
EACH	LOCATION			REMARKS
4	STA. 429+80.00	TO	431+30.00	
4	STA. 450+46.00	TO	452+00.00	
8	TOTAL			

X0549200 CLEANING PAVED DITCH				
FOOT	LOCATION			REMARKS
340.0	LT. STA. 431+41.60	TO	434+80.78	
340.0	TOTAL			

X6063000 CONCRETE GUTTER, TYPE B (SPECIAL)				
FOOT	LOCATION			REMARKS
418	LT. STA. 445+44.00	TO	449+62.03	
418	TOTAL			

Z0022800 FENCE REMOVAL					
FOOT	LOCATION				REMARKS
212.4	LEFT STA. 439+11.50	TO	441+23.90		BARB WIRE
251.0	LEFT STA. 441+49.00	TO	444+00.00		
464.0	TOTAL				

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3				
EACH	LOCATION			REMARKS
1	LT. STA. 430+95.64			STAGE 1 BEGINNING OF TAPER
1	LT. STA. 434+67.00			STAGE 1 DRIVEWAY ACCESS
1	LT. STA. 435+62.00			STAGE 1 DRIVEWAY ACCESS
1	LT. STA. 450+42.00			STAGE 1 BEGINNING OF TAPER
4	TOTAL			

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3				
EACH	LOCATION			REMARKS
1	STA. LEFT 430+95.64			STAGE 2 BEGINNING OF TAPER
1	STA. LEFT 450+42.00			STAGE 2 BEGINNING OF TAPER
2	TOTAL			

FILE NAME = P:\CBBEL\WEST\Projects\2009\09-09-04\7_ILIT3\Civil\Ugns\Shk\01680229-int-schedule.dgn



USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 12 OF 106 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60129				

PAVEMENT SCHEDULE

LOCATION	OFF.	REMARKS	LENGTH	WIDTH	AREA	35101600	35501308	40603080	40603335	42000411	42001420	42101300	48101500	48102100	48203031	48300410	Z0001050	Z0062456	
						AGGREGATE BASE COURSE, TYPE B 4"	HOT-MIX ASPHALT BASE COURSE, 6"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	PROTECTIVE COAT	AGGREGATE SHOULDERS, TYPE B 6"	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 8-1/2"	PORTLAND CEMENT CONCRETE SHOULDERS 9 1/2"	AGGREGATE SUBGRADE 12"	TEMPORARY PAVEMENT	
						(SQ YD)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	
MAINLINE																			
429+80.00	-	432+31.18		HMA	251.18	26	725.63		82										
432+31.18	-	434+88.68		PCC	257.50	26	743.89			743.89		743.89							743.89
434+88.68	-	440+46.16		PCC	557.48	26	1610.50			1610.50		1610.50							1610.50
440+46.16	-	440+56.16		CONNECTOR	10.00	26	28.89				28.89	28.89							28.89
BRIDGE																			
442+03.81	-	442+13.81		CONNECTOR	10.00	26	28.89				28.89	28.89							28.89
442+13.81	-	442+50.00		PCC	36.19	26	104.55			104.55		104.55							104.55
442+50.00	-	449+53.82		PCC	703.82	26	2033.26			2033.26		2033.26							2033.26
449+53.82	-	451+97.00		HMA	243.18	26	702.52		80										
SHOULDERS																			
431+41.60	-	432+31.18	LT	HMA	89.58	6	59.72	64.70							59.72				
432+31.18	-	435+29.72	LT	PCC	298.54	6	199.03					199.03				199.03			215.61
435+29.72	-	435+65.72	LT	PCC	36.00	VARIES	36.00					36.00				36.00			38.00
435+65.72	-	436+00.72	LT	PCC	35.00	12	46.67					46.67				46.67			48.61
436+00.72	-	436+08.72	LT	PCC	8.00	VARIES	10.11					10.11				10.11			10.56
436+08.72	-	440+55.20	LT	PCC	446.48	10.75	533.30					533.30				533.30			558.10
BRIDGE																			
442+04.66	-	442+50.00	LT	PCC	45.34	10.75	54.16					54.16				54.16			56.67
442+50.00	-	444+39.10	LT	PCC	189.10	10.75	225.87					225.87				225.87			236.37
444+39.10	-	444+47.22	LT	PCC	8.12	VARIES	10.26					10.26				10.26			10.71
444+47.22	-	444+82.76	LT	PCC	35.54	12	47.39					47.39				47.39			49.36
444+82.76	-	445+19.32	LT	PCC	36.56	VARIES	36.56					36.56				36.56			38.59
445+19.32	-	449+53.82	LT	PCC	434.50	6	289.67					289.67				289.67			313.81
449+53.82	-	450+50.20	LT	HMA	96.38	6	64.25	69.46							64.25				
445+01.00	-	445+43.98	LT	PCC OUTLET			19.22					19.22							
445+43.98	-	449+53.82	LT	GUTTER	409.84	1.75	79.69					79.69							84.69
449+53.82	-	449+62.07	LT	PCC OUTLET			2.67					2.67							
431+41.60	-	432+31.18	RT	HMA	89.58	6	59.72	64.70											
432+31.18	-	435+24.13	RT	PCC	292.95	6	195.30					195.30				195.30			211.57
435+24.13	-	435+60.13	RT	PCC	36.00	VARIES	36.00					36.00				36.00			38.00
435+60.13	-	435+95.13	RT	PCC	35.00	12	46.67					46.67				46.67			48.61
435+95.13	-	436+03.13	RT	PCC	8.00	VARIES	10.11					10.11				10.11			10.56
436+03.13	-	440+57.32	RT	PCC	454.19	10.75	542.50					542.50				542.50			567.74
BRIDGE																			
442+02.86	-	442+50.00	RT	PCC	47.14	10.75	56.31					56.31				56.31			58.92
442+50.00	-	443+33.19	RT	PCC	83.19	10.75	99.37					99.37				99.37			103.99
443+33.19	-	443+40.97	RT	PCC	7.78	VARIES	9.83					9.83				9.83			10.27
443+40.97	-	443+75.45	RT	PCC	34.48	12	45.97					45.97				45.97			47.89
443+75.45	-	444+10.92	RT	PCC	35.47	VARIES	35.47					35.47				35.47			37.44
444+10.92	-	449+53.82	RT	PCC	542.90	6	361.93					361.93				361.93			392.09
449+53.82	-	450+50.20	RT	HMA	96.38	6	64.25	69.46											
429+80.00	-	434+88.68	LT	AGGREGATE	508.68	VARIES	115.99						115.99						
435+33.82	-	440+55.20	LT	AGGREGATE	521.38	VARIES	57.57						57.57						
442+02.82	-	445+19.62	LT	AGGREGATE	316.80	VARIES	34.52						34.52						
449+62.05	-	451+97.00	LT	AGGREGATE	234.95	VARIES	55.54						55.54						
429+80.00	-	440+57.36	RT	AGGREGATE	1,077.36	VARIES	184.17						184.17						
442+02.82	-	443+79.44	RT	AGGREGATE	176.62	VARIES	19.88						19.88						
444+04.86	-	451+97.00	RT	AGGREGATE	792.14	VARIES	180.15						180.15						
431+41.60	-	434+88.68	LT	AGG. WEDGE	347.08														
435+33.82	-	440+55.00	LT	AGG. WEDGE	521.18														
442+04.80	-	442+50.00	LT	AGG. WEDGE	45.20														
442+50.00	-	445+19.62	LT	AGG. WEDGE	269.62														
449+62.05	-	450+50.00	LT	AGG. WEDGE	87.95														
431+41.60	-	435+30.05	RT	AGG. WEDGE	388.45														
435+30.05	-	440+57.36	RT	AGG. WEDGE	527.31														
442+02.82	-	442+50.00	RT	AGG. WEDGE	47.18														
442+50.00	-	443+78.58	RT	AGG. WEDGE	128.58														
444+04.86	-	450+50.00	RT	AGG. WEDGE	645.14														
ENTRANCES																			
434+84.40			LT	HMA ENT.			62.00	66.00	7										
443+90.00			RT	HMA ENT.			184.00	196.00	21										
444+82.90			LT	HMA ENT.			39.00	42.00	4										
TEMPORARY PAVEMENT																			
431+29.00	-	441+13.79	RT	TEMPORARY	984.79	VARIES	727.00	781.71					49.24						727.00
441+80.27	-	442+50.00	RT	TEMPORARY	69.73	VARIES	60.00	63.87					3.49						60.00
442+50.00	-	450+00.00	RT	TEMPORARY	750.00	VARIES	585.00	626.67					37.50						585.00
433+00.00	-	438+00.00	CT	TEMP. OVERLAY	500.00	26	585.00		125	452.00									
TOTAL							2,045	285	452	347	4,492	58	7,580	648	90	124	2,928	7,738	1,372

FILE NAME = P:\CBBEL WEST Projects\2009\09-0147 ILL133 C.v1\Ugn\Shk\0160129-int-schedule5.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = *USER*	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/6/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 13 OF 106 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	MCHENRY	106	13
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PAVEMENT REMOVAL SCHEDULE

LOCATION	OFF.	REMARKS	AREA (SQ YD)	40600982	40600990	44000100	44000157	44000200	44004250	Z0004638	44201696	44201803	Z0004652
				HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	DRIVEWAY PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	PAVEMENT BREAKING	CLASS D PATCHES, TYPE IV, 4 INCH	CLASS D PATCHES, TYPE II, 13 INCH	APPROACH SLAB REMOVAL
ENTRANCES													
434+84.40	LT	HMA ENT.	62.0					122.4					
443+90.00	RT	HMA ENT.	184.0					58.4					
REMOVAL / BREAKING													
429+80.00 - 432+31.18		SURF. REM.	727.4				727.4						
432+31.18 - 436+63.06		REMOVAL	1246.1			1246.1				1392.1			
436+63.06 - 440+88.00		BREAKING	1392.1										
440+88.00 - 445+08.00		SLAB. REM.	59.0										59.0
441+83.00 - 442+05.00		SLAB. REM.	59.0										59.0
442+05.00 - 442+50.00		BREAKING	196.1							196.1			
442+50.00 - 445+09.08		BREAKING	989.2							989.2			
445+09.08 - 449+53.82		REMOVAL	1303.2			1303.2							
449+53.82 - 451+97.00		SURF. REM.	721.6				721.6						
432+30.00		PVT. BULKHEAD	11.6									11.6	
449+54.00		PVT. BULKHEAD	12.0									12.0	
437+87.00 - 440+88.00		SHEET PILING	67.0								67.0		
442+05.00 - 444+75.00		SHEET PILING	60.0								60.0		
429+80.00 - 429+86.50	LT	DRIVEWAY ACCESS	7.2		7.2								
429+80.00 - 429+86.50	RT	FINAL SURFACE	7.2		7.2								
451+97.00 - 451+90.50	RT	FINAL SURFACE	7.2		7.2								
451+97.00 - 451+90.50	RT	FINAL SURFACE	7.2		7.2								
432+31.00 - 436+63.06		TEMP. PAVEMENT	284.3			284.3							
436+63.06 - 440+54.00		TEMP. PAVEMENT	297.2							297.2			
440+54.00 - 441+13.00		TEMP. PAVEMENT	64.0			64.0							
441+80.00 - 442+03.00		TEMP. PAVEMENT	19.9			19.9							
442+03.00 - 445+09.00		TEMP. PAVEMENT	224.6							224.6			
445+09.00 - 449+53.80		TEMP. PAVEMENT	273.4			273.4							
431+41.60	LT	SHOULD.-STAGE 3	59.7				59.7						
431+29.00	RT	TEMP. PVT.-STAGE 3	82.9				82.9						
449+53.82	LT	SHOULD.-STAGE 3	64.3				64.3						
449+53.82	RT	TEMP. PVT.-STAGE 3	65.7				65.7						
431+29.00 - 441+13.79	RT	SOUTH EDGE OF EXISTING PAVEMENT (6")	54.7			54.7							
441+80.80 - 442+50.00	RT		3.8			3.8							
442+50.00 - 450+50.20	RT		44.5			44.5							
433+70.00 - 434+00.00	LT	STAGE 1C	43.3	43.3									
433+70.00 - 434+00.00	RT	STAGE 1C	63.3	63.3									
436+90.00 - 437+20.00	LT	STAGE 1C	43.3	43.3									
436+90.00 - 437+20.00	RT	STAGE 1C	63.3	63.3									
435+08.00 - 435+20.00	LT	STAGE 1C	15.1	15.1									
431+41.60 - 431+71.60	LT	STAGE 3	6.5	6.5									
431+41.60 - 431+71.60	RT	STAGE 3	6.5	6.5									
450+20.00 - 450+50.00	LT	STAGE 3	6.5	6.5									
450+20.00 - 450+50.00	RT	STAGE 3	6.5	6.5									
440+88.00 - 441+09.10	LT	EXST. SHOULDERS	14.4						14.4				
440+88.00 - 441+09.10	RT	EXST. SHOULDERS	17.8						17.8				
440+84.48 - 442+05.00	LT	EXST. SHOULDERS	14.6						14.6				
440+84.48 - 442+05.00	RT	EXST. SHOULDERS	17.0						17.0				
444+98.73 - 449+65.00	LT	EXST. SHOULDERS	182.0						182.0				
445+09.08 - 450+50.00	RT	EXST. SHOULDERS	141.0						141.0				
TOTAL				254	29	3,294	1,722	181	387	3,100	127	24	118

LANDSCAPING AND EROSION CONTROL SCHEDULE

LOCATION	OFF.	21101625	25000210	25000312	25100630	25100900	28000250	28000305	28000400	28100107	28200200	A2002920	A2006520	C2C01524
		TOPSOIL FURNISH AND PLACE, 6"	SEEDING, CLASS 2A	SEEDING, CLASS 4A	EROSION CONTROL BLANKET	TURF REINFORCE. MAT	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	STONE RIPRAP, CLASS A4	FILTER FABRIC	TREE (COMMON HACKBERRY), 2-1/2" CALIPER	TREE, (SWAMP WHITE OAK), 2-1/2" CALIPER	SHRUB (GREY DOGWOOD), 2' HEIGHT, CONTAINER
		(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(POUND)	(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(EACH)	(EACH)	(EACH)
429+80.00 - 435+77.00	LT	723.7	723.7			723.7	120	147	587					
429+80.00 - 435+71.40	RT	911.0	911.0			911.0	150	168	600					
435+75.00 - 441+25.00	LT	1033.8		1033.8		1,033.8	171	231	516	52	52			30
435+75.00 - 441+25.00	RT	1703.5		1703.5	469.2	1,234.3	282	231	535	73	73	5	5	30
441+25.00 - 442+00.00	LT	76.7		76.7	13.7	63.0	13	21	36	59	59			
441+25.00 - 442+00.00	RT	100.8		100.8	37.8	63.0	17	21	30	74	74			
442+00.00 - 444+64.70	LT	1077.2		1077.2	444.2	633.0	178	126	271					30
442+00.00 - 443+90.00	RT	1198.9	569.6	629.3	858.2	340.7	198	63	221					30
444+64.70 - 451+97.00	LT	1123.2	1123.2		822.2	301.0	186	21	709					
443+90.00 - 451+97.00	RT	2446.7	2446.7		967.4	1,479.3	405	273	882					
STAGE 1A														
434+84.00 - 435+39.00						44.44								
431+00.00 - 441+25.00	RT	1100.0			1,100.0		91	399						
441+25.00 - 450+50.00	RT	800.0			800.0	44.44	66	357						
MAINTENANCE / REPL.														
429+80.00 - 451+97.00	LT/RT							210	439					
TOTAL		12,296	5,774	4,621	5,513	6,872	1,877	2,268	4,826	258	258	5	5	120
		1.25 AC		1.00 AC										

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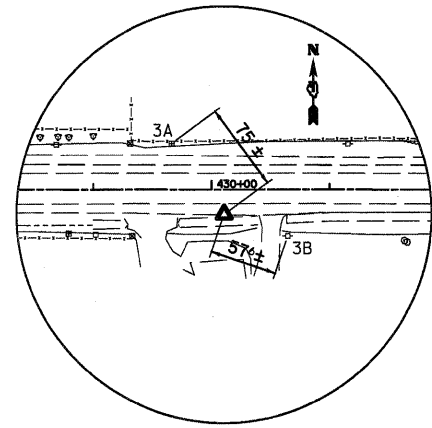
WILLIS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/28/2011	CHECKED - PUF	REVISED -
	DATE - 1/25/11	REVISED -

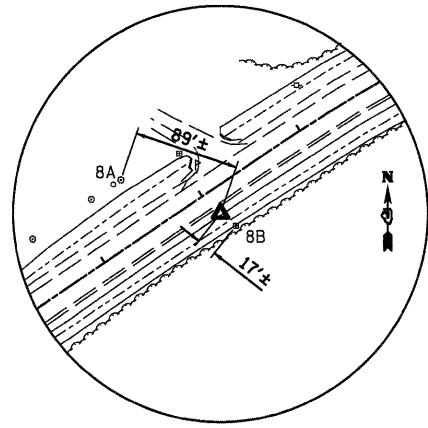
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 14 OF 106 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	14
CONTRACT NO. 60129				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

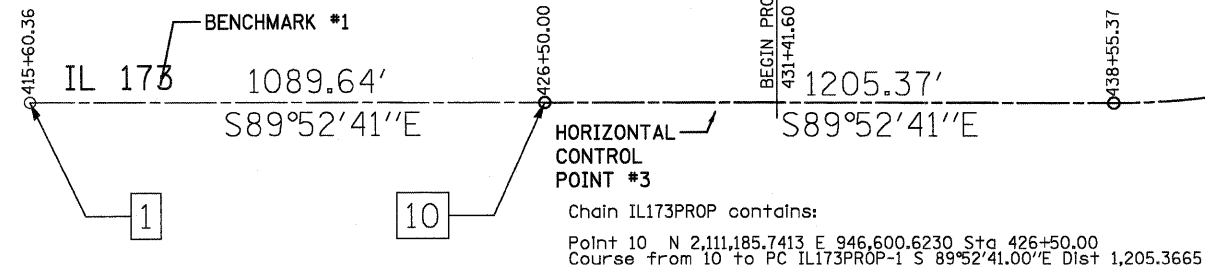


HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 8

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
3	2111163.8394	946961.4353	963.013	IL173	430+10.86	21.13 RT	
8	2111654.2368	949046.9576	955.684	IL173	452+04.58	20.75 RT	



DATUM NOTE:
THE HORIZONTAL CONTROL AND VERTICAL BENCHMARKS WERE PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION FOR THIS PROJECT.

PERMANENT SURVEY MARKERS
POINT 11 STA. 438+55.37 0.00' OFFSET 1 EACH
POINT 14 STA. 448+44.54 0.00' OFFSET 1 EACH

Chain IL173PROP contains:
Point 10 N 2,111,185.7413 E 946,600.6230 Sta 426+50.00
Course from 10 to PC IL173PROP-1 S 89°52'41.00"E Dist 1,205.3665

Curve Data
Curve IL173PROP-1
P.I. Station 443+65.32 N 2,111,182.0906 E 948,315.9357
Delta = 34°20'44.28" (LT)
Degree = 3°28'19.74"
Tangent = 509.9500
Length = 989.1752
Radius = 1,650.1534
External = 76.9990
Long Chord = 974.4314
Mid. Ord. = 73.5662
P.C. Station 438+55.37 N 2,111,183.1759 E 947,805.9868
P.T. Station 448+44.54 N 2,111,468.8994 E 948,737.5869
C.C. Station 443+50.00 N 2,112,833.3255 E 947,809.4989
Back = S89°52'41.00"E
Ahead = N55°46'34.72"E
Chord Bear = N72°56'56.86"E
Course from PT IL173PROP-1 to PC IL173PROP-2 N55°46'34.72"E Dist 412.6746

Curve Data
Curve IL173PROP-2
P.I. Station 454+03.96 N 2,111,783.5322 E 949,200.1435
Delta = 95°15'03" (RT)
Degree = 3°21'57.03"
Tangent = 146.7469
Length = 292.7701
Radius = 1,702.2722
External = 6.3136
Long Chord = 292.4094
Mid. Ord. = 6.2902
P.C. Station 452+57.22 N 2,111,700.9980 E 949,078.8060
P.T. Station 455+49.99 N 2,111,844.0829 E 949,333.8158
C.C. Station 454+03.96 N 2,110,293.4775 E 950,036.2070
Back = N55°46'34.72"E
Ahead = N89°36'41.20"E
Chord Bear = N60°42'12.23"E

Chain IL173 contains:
Point 1 N 2,111,188.0604 E 945,510.9865 Sta 415+60.36
Course from 1 to PC IL173-1 S89°52'41.00"E Dist 2,295.0055

Curve Data
Curve IL173-1 Same as Curve IL173PROP-1

Curve Data
Curve IL173-2
P.I. Station 457+74.98 N 2,111,992.1993 E 949,506.9149
Delta = 33°50'06.49" (RT)
Degree = 3°21'57.03"
Tangent = 517.7600
Length = 1,005.2505
Radius = 1,702.2722
External = 76.9990
Long Chord = 990.7073
Mid. Ord. = 73.6668
P.C. Station 452+57.22 N 2,111,700.9980 E 949,078.8060
P.T. Station 462+62.47 N 2,111,995.7105 E 950,024.6630
C.C. Station 457+74.98 N 2,110,293.4775 E 950,036.2070
Back = N55°46'34.72"E
Ahead = N89°36'41.20"E
Chord Bear = N72°41'37.96"E
Course from PT IL173-2 to 2 N89°36'41.20"E Dist 1,185.5029
Point 2 N 2,112,003.7500 E 951,210.1386 Sta 474+47.97

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL173PROP	IL173PROP-1	13	12	11	14
IL173PROP	IL173PROP-2	17	16	15	18
IL173	IL173-2	19	16	15	20

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
3A	IL173	429+66.27	39.15 LT	UTILITY SPLICE BOX
3B	IL173	430+64.79	39.52 RT	UTILITY POWER POLE
8A	IL173	451+50.93	50.55 LT	10" DIA. TREE
8B	IL173	452+09.61	36.77 RT	UTILITY SPLICE BOX

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2111168.4551	945659.0744	979.040	IL173	417+08.49	19.29 RT	
2	2111166.4523	946102.8339	977.281	IL173	421+52.25	20.35 RT	
4	2111165.0454	947467.5134	942.217	IL173	435+16.93	18.85 RT	
5	2111170.9909	947990.5384	935.752	IL173	440+37.88	22.01 RT	
6	2111261.0524	948374.9048	939.798	IL173	444+28.53	20.69 RT	
7	2111457.4310	948619.1293	958.761	IL173	447+36.55	53.72 LT	
9	2112005.1543	949865.4055	945.876	IL173	461+04.71	17.91 LT	
10	2112027.2103	950578.0689	951.857	IL173	468+16.07	27.75 LT	

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
BM#1	2111225.6520	945787.1510	976.88	IL173	418+36.44	38.18 LT	SPIKE IN P.P.
BM#2	2111195.9640	948135.2770	936.69	IL173	441+82.97	19.30 RT	SQ. CUT IN TOP OF SE WINGWALL OF RT 173 BRIDGE OVER NIPPERSINK CREEK
BM#3	2112032.7760	950567.2990	951.93	IL173	468+05.37	33.38 LT	SPIKE IN P.P.

FILE NAME = P:\CBBEL WEST Projects\2009\173\173.dwg; USER = JG; DATE = 12/14/10

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = *USER*	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/6/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

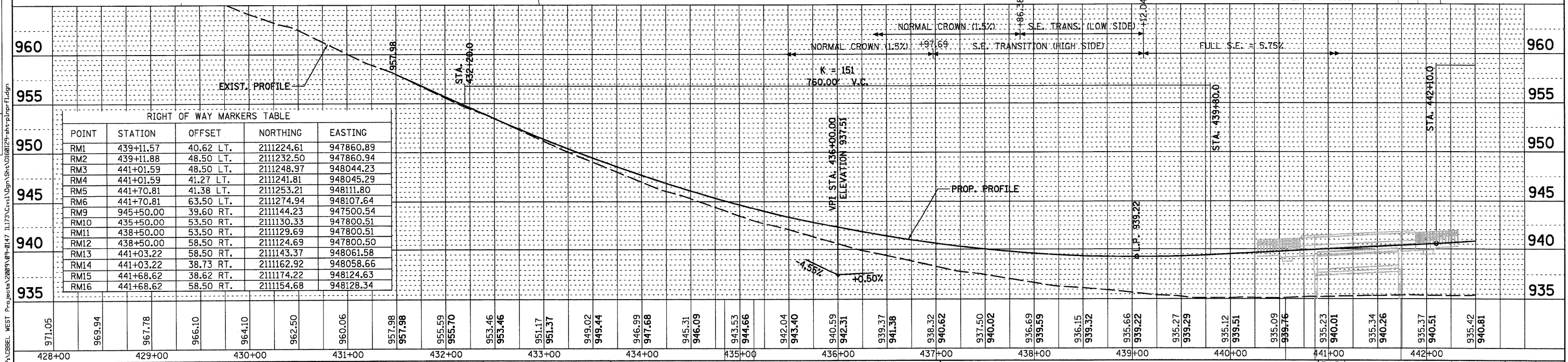
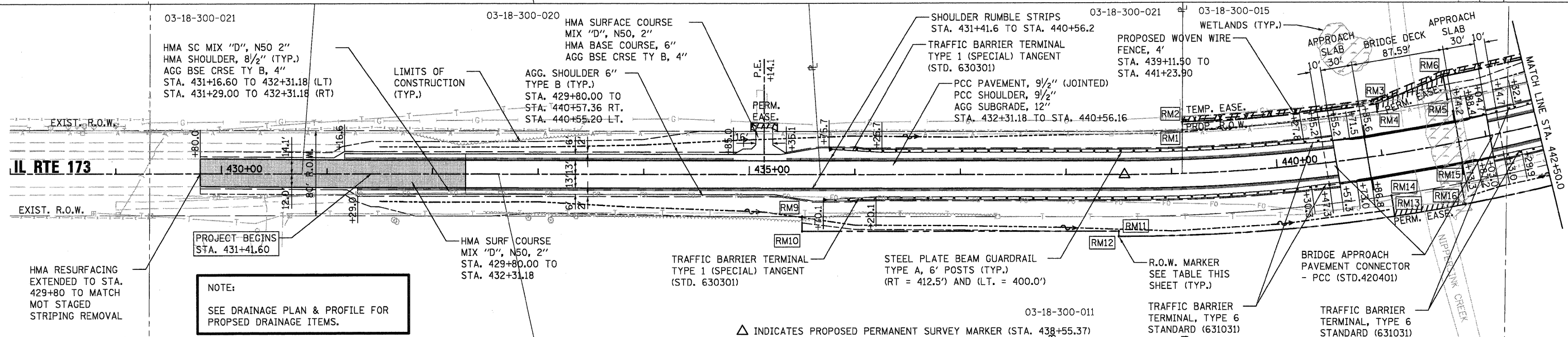
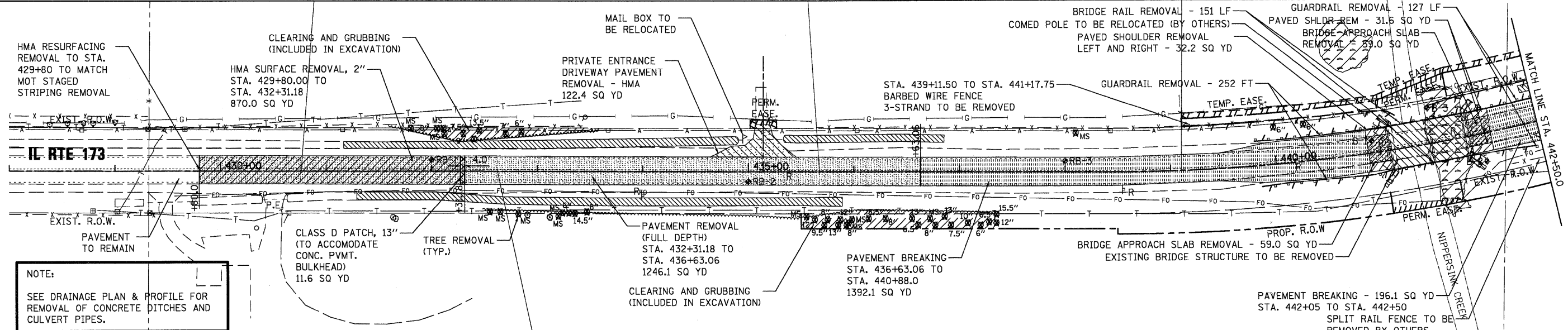
ALIGNMENT, TIES AND BENCHMARKS			
SCALE:	SHEET NO. 16 OF 106 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	16
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISION	
NO.	
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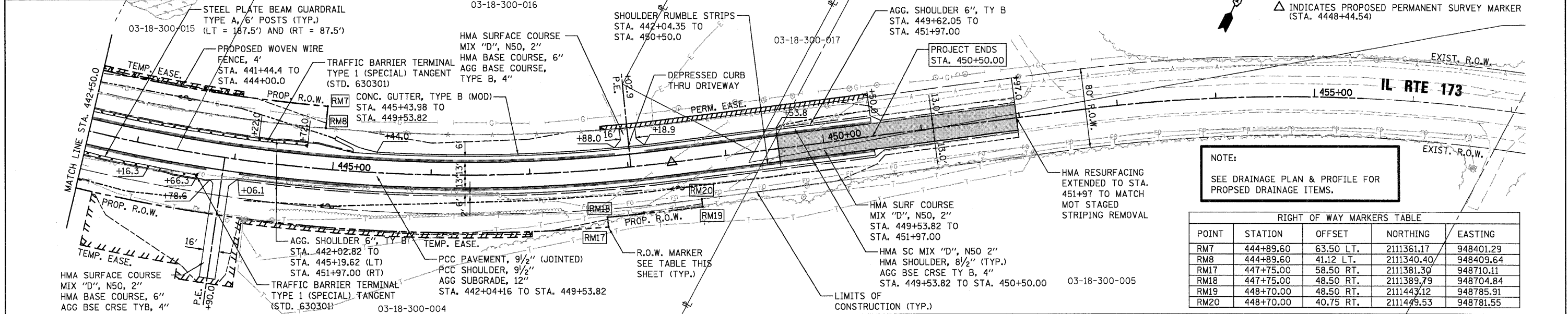
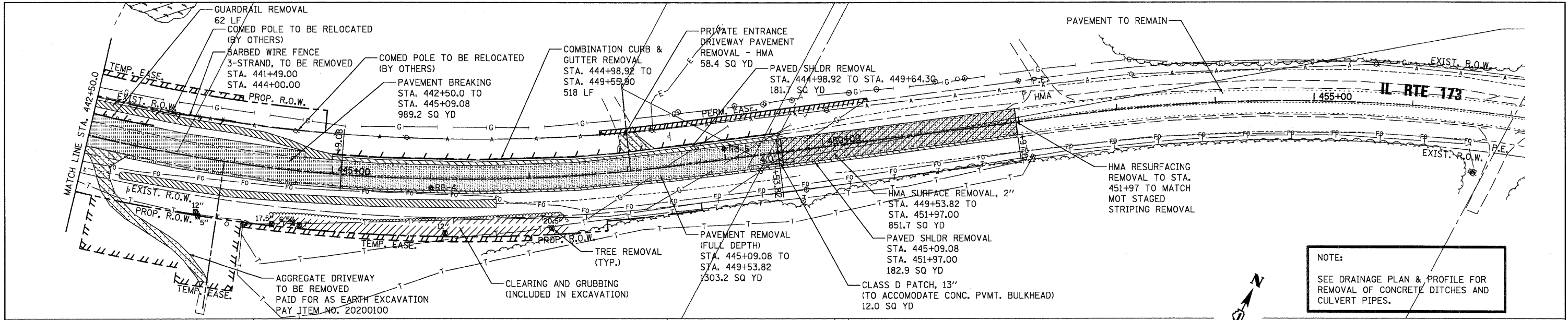
RIGHT OF WAY MARKERS TABLE

POINT	STATION	OFFSET	NORTHING	EASTING
RM1	439+11.57	40.62 LT.	2111224.61	947860.89
RM2	439+11.88	48.50 LT.	2111232.50	947860.94
RM3	441+01.59	48.50 LT.	2111248.97	948044.23
RM4	441+01.59	41.27 LT.	2111241.81	948045.29
RM5	441+70.81	41.38 LT.	2111253.21	948111.80
RM6	441+70.81	63.50 LT.	2111274.94	948107.64
RM9	945+50.00	39.60 RT.	2111144.23	947500.54
RM10	435+50.00	53.50 RT.	2111130.33	947800.51
RM11	438+50.00	53.50 RT.	2111129.69	947800.51
RM12	438+50.00	58.50 RT.	2111124.69	947800.50
RM13	441+03.22	58.50 RT.	2111143.37	948061.58
RM14	441+03.22	38.73 RT.	2111162.92	948058.66
RM15	441+68.62	38.62 RT.	2111174.22	948124.63
RM16	441+68.62	58.50 RT.	2111154.68	948128.34

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	USER NAME = *USER* DESIGNED - SBP/KMA DRAWN - NDP CHECKED - PJF DATE - 12/14/10	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SCALE: SHEET NO. 17 OF 106 SHEETS STA. 428+74.0 TO STA. 442+50.0	F.A.P. RTE. 303 SECTION 132 B-2 COUNTY MCHENRY TOTAL SHEETS 106 SHEET NO. 17 CONTRACT NO. 60129 ILLINOIS FED. AID PROJECT
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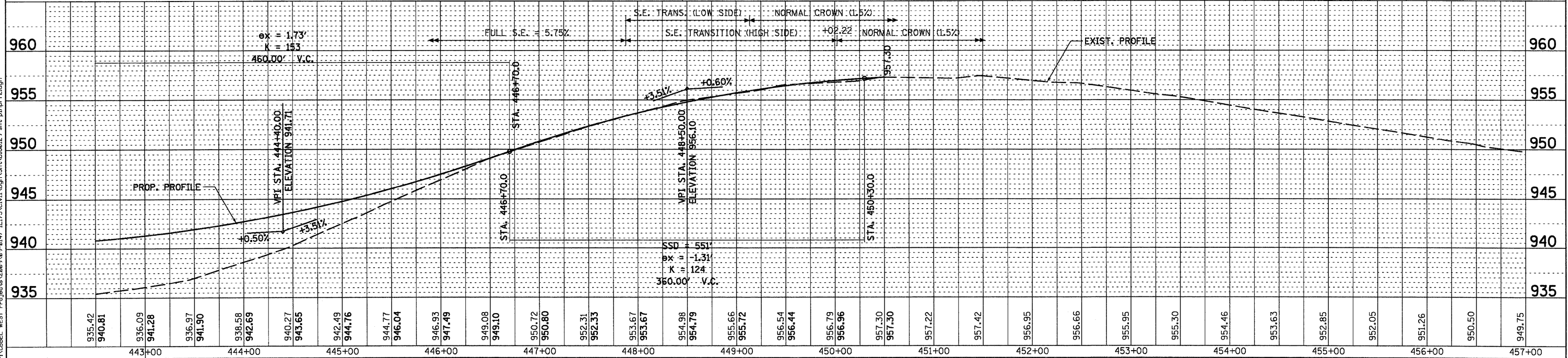
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 PLAN: _____ NO. _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
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 PLOTTED: _____ CHECKED: _____
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 NOTE BOOK: _____
 NO. _____



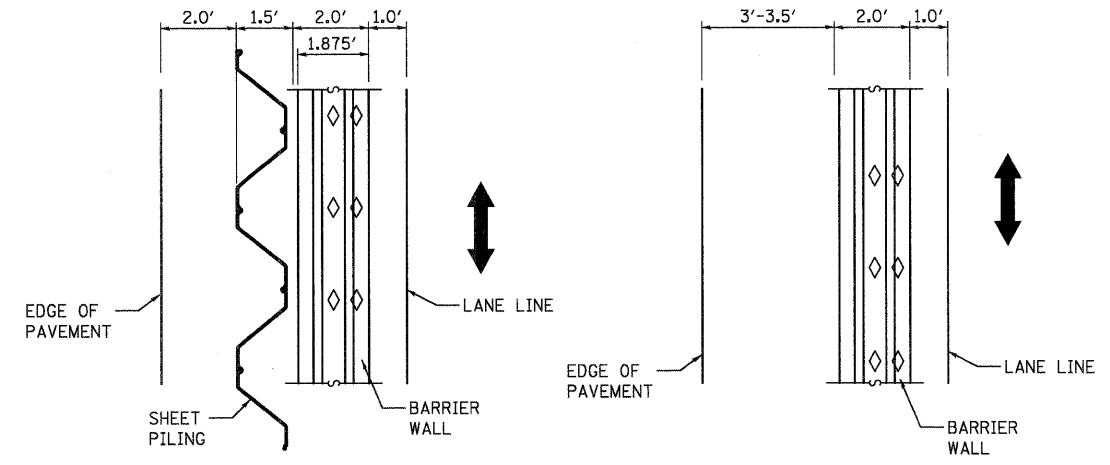
RIGHT OF WAY MARKERS TABLE

POINT	STATION	OFFSET	NORTHING	EASTING
RM7	444+89.60	63.50 LT.	2111361.17	948401.29
RM8	444+89.60	41.12 LT.	2111340.40	948409.64
RM17	447+75.00	58.50 RT.	2111381.30	948710.11
RM18	447+75.00	48.50 RT.	2111389.79	948704.84
RM19	448+70.00	48.50 RT.	2111443.12	948785.91
RM20	448+70.00	40.75 RT.	2111449.53	948781.55



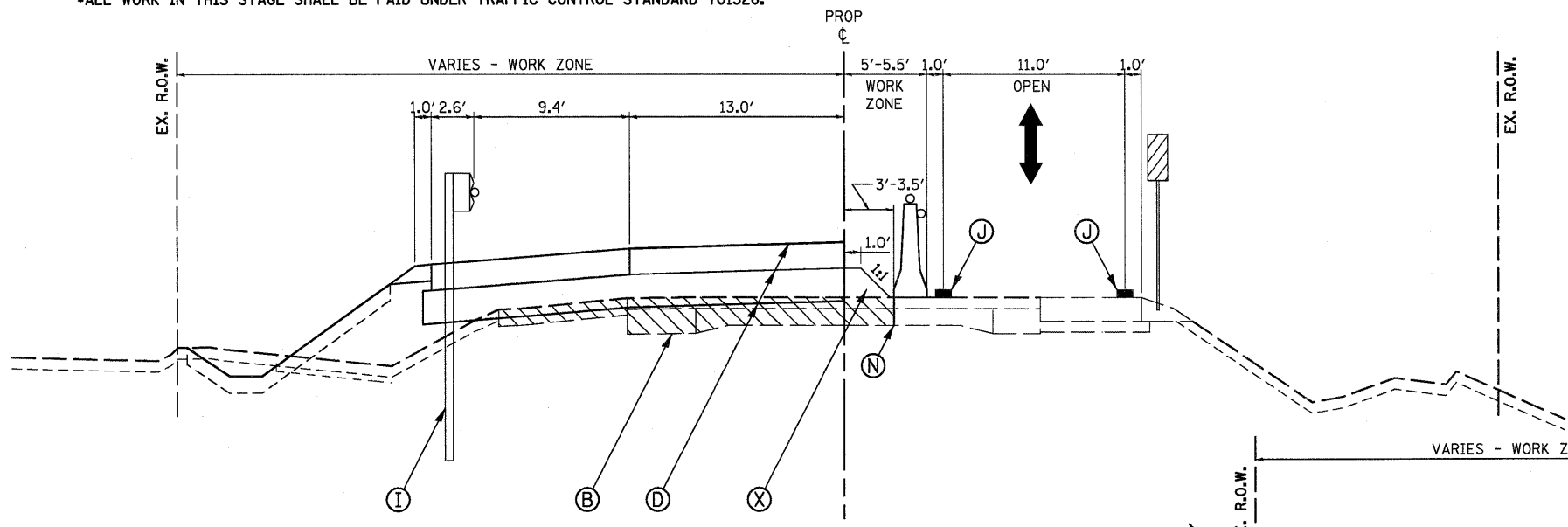
STAGE 1 - MAJOR WORK ITEMS

- PLACE STAGE 1 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 1 MOT PLAN).
- PLACE TEMPORARY CONCRETE BARRIER WALL AND ATTENUATORS.
- PLACE TEMPORARY BRIDGE SIGNALS AND ROADWAY LIGHTING.
- CONSTRUCT TEMPORARY SHEET PILING WALL.
- REMOVE AND REPLACE BRIDGE STRUCTURE AND APPROACH SLABS LEFT OF CENTERLINE.
- REMOVE ROADWAY PAVEMENT STA. 431+41.60 TO STA. 436+63.06 AND STA. 445+09.08 TO STA. 449+53.82.
- COMPLETE PAVEMENT BREAKING STA.436+06.06 TO STA. 440+51.27 AND STA 442+20.00 TO STA. 445+09.08.
- CONSTRUCT EMBANKMENTS, SUBGRADES AND AGGREGATE BASE COURSES STA. 431+41.60 TO STA. 445+09.08.
- CONSTRUCT PCC CONCRETE PAVEMENT, CURB AND GUTTERS AND SHOULDERS STA. 431+41.60 TO STA. 445+09.08.
- CONSTRUCT THE STEEL PLATE BEAM GUARD RAIL AND END TREATMENTS.
- PLACE TOPSOIL, SEEDING, BLANKET AND PERMENT EROSION CONTROL MEASURES LEFT OF CENTERLINE.
- ALL WORK IN THIS STAGE SHALL BE PAID UNDER TRAFFIC CONTROL STANDARD 701326.

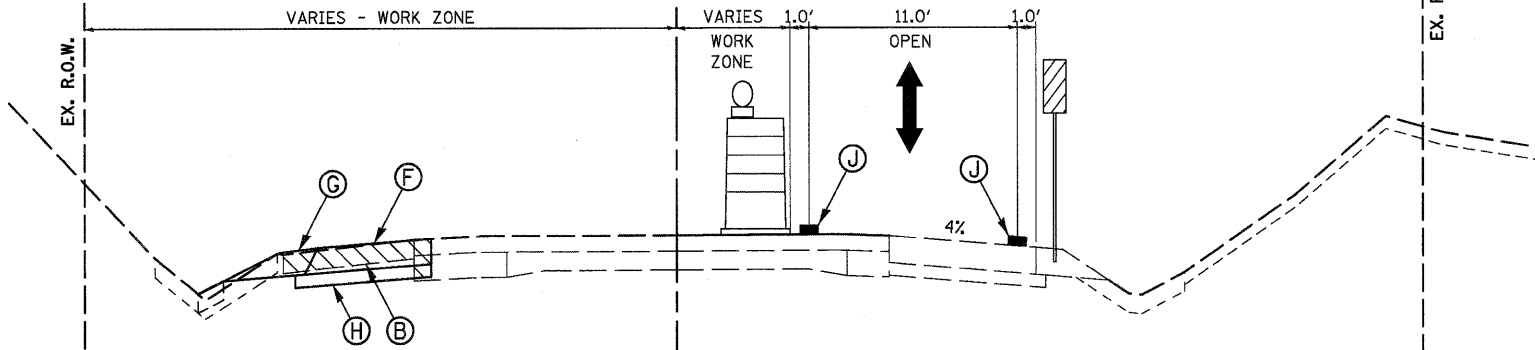


STAGE 1 TRAFFIC CONTROL WITH TEMPORARY SHEET PILING
 STA. 437+87.0 TO STA. 440+86.0
 STA. 442+83.0 TO STA. 444+75.0

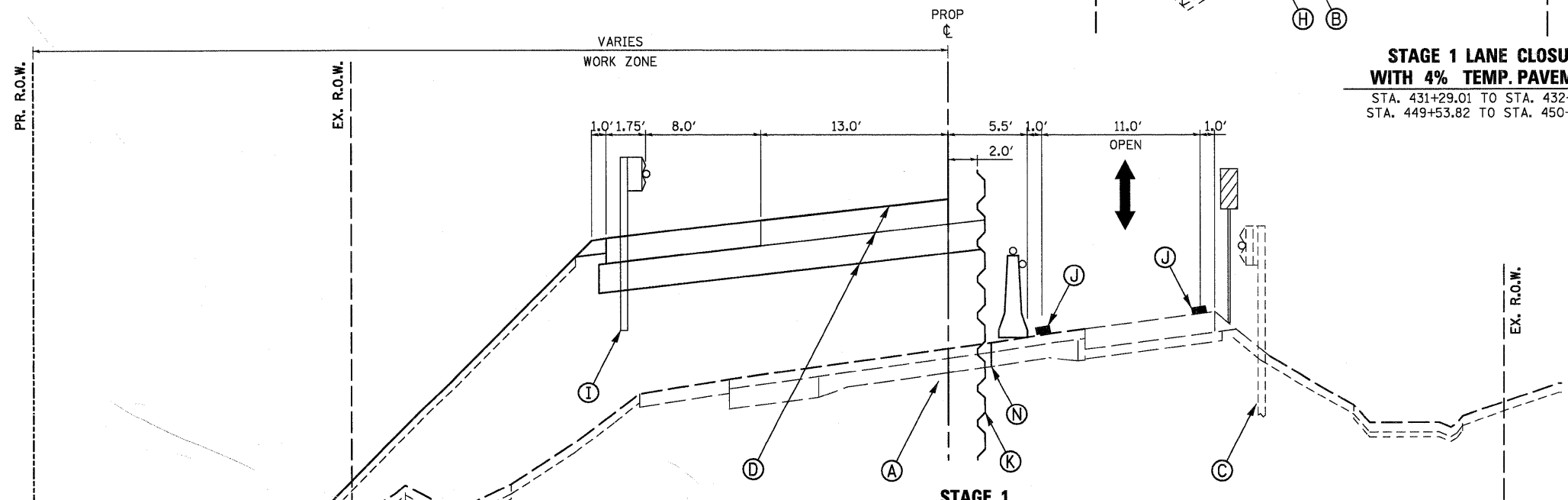
STAGE 1 TRAFFIC CONTROL WITHOUT TEMPORARY SHEET PILING
 STA. 432+40.0 TO STA. 437+87.0
 STA. 444+75.0 TO STA. 449+30.0



STAGE 1 LANE CLOSURE
 STA. 432+40.1 TO STA. 437+87.0
 STA. 444+75.0 TO STA. 449+30.1



STAGE 1 LANE CLOSURE WITH 4% TEMP. PAVEMENT
 STA. 431+29.01 TO STA. 432+31.18
 STA. 449+53.82 TO STA. 450+50.00



STAGE 1 LANE CLOSURE - EASTBOUND
 STA. 437+87 TO STA. 440+86
 BRIDGE OMISSION - SEE STRUCTURAL PLANS FOR SHEETING AT BRIDGE
 STA. 442+83 TO STA. 444+75

- LEGEND**
- (A) EXIST. PAVEMENT STRUCTURE
 - (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
 - (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
 - (D) PROP. PAVEMENT STRUCTURE
 - (E) PROP. HMA SURFACE COURSE
 - (F) PROP. HMA SHOULDER/AGGREGATE BASE COURSE
 - (G) PROP. AGGREGATE SHOULDER
 - (H) PROP. AGGREGATE SUB-BASE
 - (I) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
 - (J) 8-1/2", TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
 1/2" - HMA SURFACE COURSE, MIX "D", N50
 7" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
 (SEE HMA MIXTURE REQUIREMENTS, SHT. 7)
 - (K) TEMPORARY SHEET PILING
 - (L) AGGREGATE WEDGE SHOULDER, TYPE B
 - (M) TEMPORARY PAVEMENT MARKING LINE
 - (N) SAW CUT - FULL DEPTH
 - (O) SHORT-TERM PAVEMENT MARKINGS
 - (P) HMA SURFACE REMOVAL, 2"

FILE NAME = P:\CBBEL\WEST Projects\28091\B-9147_IL173\CV11\Bgn\Sh\160129_sht-mot-ypc2.dgn

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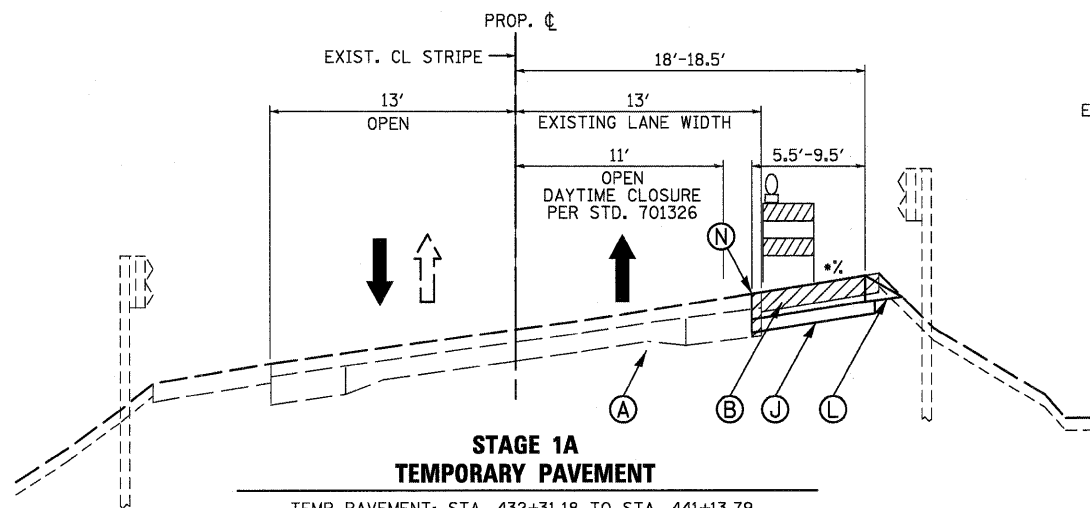
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PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 1 TYPICAL SECTIONS**

SCALE: SHEET NO. 19 OF 106 SHEETS STA. TO STA.

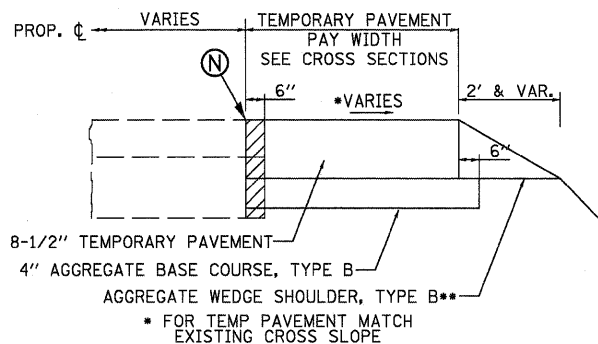
F.A. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO.60129	



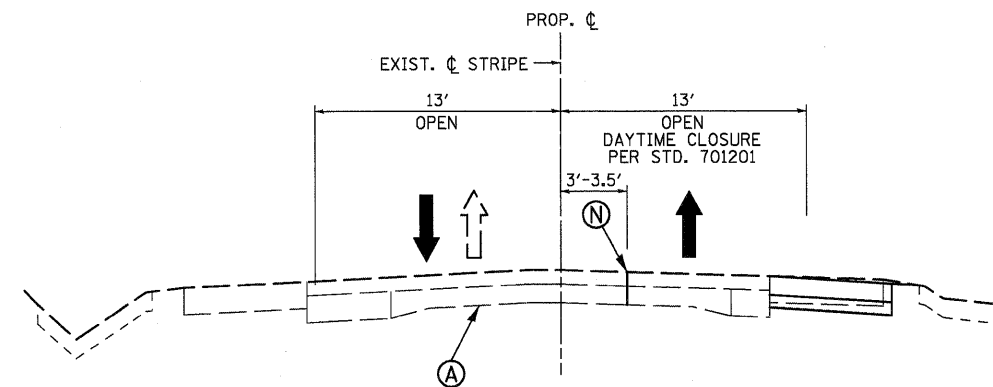
TEMP PAVEMENT: STA. 432+31.18 TO STA. 441+13.79
STA. 441+80.09 TO STA. 449+53.82
STAGE 1 WORK TO BE COMPLETED UTILIZING STD. 701326

EXISTING GUARDRAIL:
STA. 439+85.5 TO STA. 442+46, RT.

- MATCH EXISTING CROSS SLOPE



**AGGREGATE WEDGE TO BE CONSTRUCTED ADJACENT TO ALL TEMPORARY PAVEMENT WIDENING ADJACENT CONSTRUCTED IN STAGE 1A

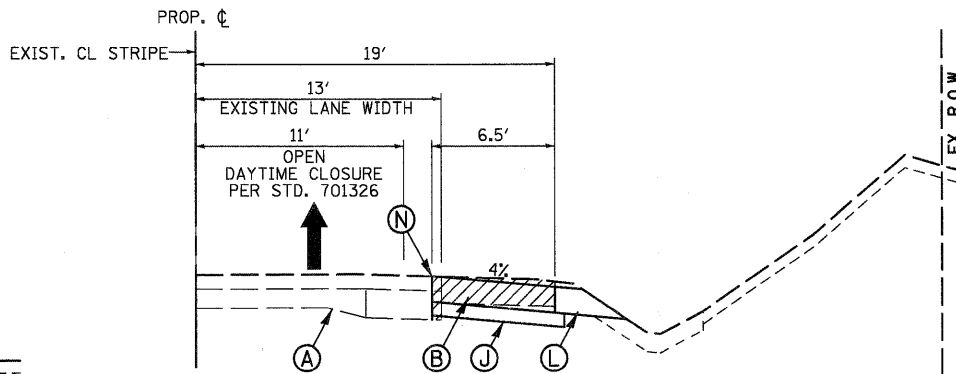


SAW CUT: STA. 432+31 TO STA. 441+14
SAW CUT: STA. 442+03 TO STA. 449+54

IT IS ANTICIPATED THAT THE LOCATION OF BARRIER WALL WHEN SET MAY NOT ALLOW ADEQUATE ROOM TO PERFORM SAWCUT REQUIRED FOR PAVEMENT REMOVAL IN STAGE 1. THE CONTRACTOR MAY SAW CUT PAVEMENT FULL DEPTH AS A SEPARATE OPERATION UTILIZING STANDARD 701201 OR PERFORM SAW CUT CONCURRENT WITH CONSTRUCTION OF THE TEMPORARY PAVEMENT WIDENING.

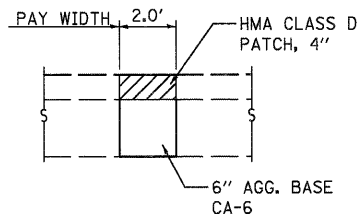
STANDARD 701201 OR 701326 SHALL ONLY BE PAID FOR ONCE REGARDLESS OF HOW MANY WORK OPERATIONS ARE PERFORMED UNDER THE STANDARD. CONTRACTOR WILL ONLY BE PAID FOR THE APPLICABLE STANDARD IF WORK IS ACTUALLY PERFORMED UNDER THAT STANDARD.

AN ADDITIONAL SAW CUT MAY BE RELINED AFTER TEMPORARY OVERLAY IS COMPLETED IN STAGE 1C. SEE DETAIL FOR TEMPORARY OVERLAY AND DRIVEWAY ACCESS.



4% TEMP PAVEMENT: STA. 431+29.00 TO STA. 432+31.18
STA. 449+53.82 TO STA. 450+50.00
STAGE 1 WORK TO BE COMPLETED UTILIZING STD. 701326

*THIS PORTION OF TEMPORARY PAVEMENT WILL BE LEFT IN PLACE AS PERMANENT SHOULDER

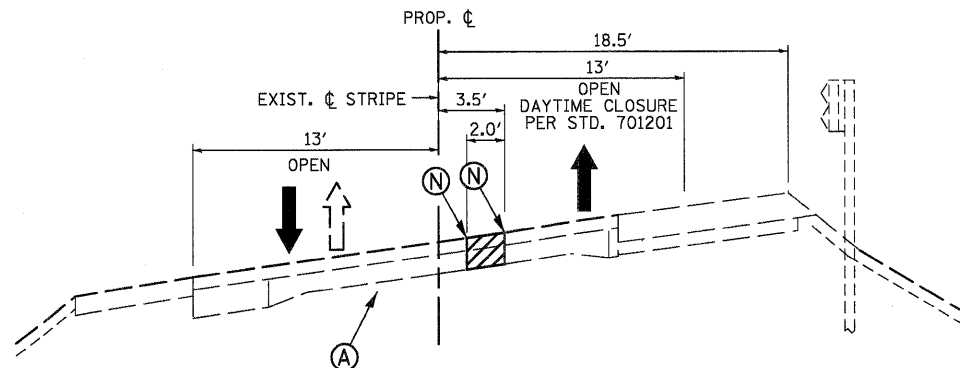


PAVEMENT PATCH FOR TEMPORARY SHEET PILING

STA. 437+87.0 TO STA. 440+88.0
STA. 442+05.0 TO STA. 444+75.0

THE CONTRACTOR MAY CONSTRUCT CLASS D PATCH AS A SEPARATE OPERATION UTILIZING STANDARD 701201 OR PERFORM PATCHING CONCURRENT WITH CONSTRUCTION OF THE TEMPORARY PAVEMENT WIDENING.

AGGREGATE BASE SHALL BE INCLUDED IN COST OF CLASS D PATCH.



SHEET PILING: STA. 437+87.00 TO STA. 440+88.00
STA. 442+05.00 TO STA. 444+75.00

TO ACCOMMODATE THE CONSTRUCTION OF THE TEMPORARY SHEET PILING IN AREAS OF PAVEMENT BREAKING WHERE THE EXISTING PAVEMENT WILL BE LEFT IN PLACE, THE CONTRACTOR MAY BE REQUIRED TO REMOVE A PORTION OF THE EXISTING PAVEMENT TO DRIVE THE SHEET PILING.

ANY PAVEMENT REMOVAL AND SAW CUTS IN THE AREA OF PAVEMENT BREAKING TO ACCOMMODATE CONSTRUCTION OF THE TEMPORARY SHEET PILING WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CLASS D PATCH.

SAW CUTS AND PATCHING SHOULD BE PERFORMED IN STAGE 1A OR 1B.

STAGE 1A - MAJOR WORK ITEMS

- REMOVE EXISTING CONCRETE PAVED DITCH STA. 439+29 TO STA. 446+66, RT.
- SAW CUT, REMOVE PAVEMENT AND SHOULDER AND CONSTRUCT TEMPORARY PAVEMENT WIDENING FROM STA. 432+31.18 TO STA. 441+13.79 AND STA. 441+80.09 TO STA. 449+53.82. WORK TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701326.
- CONSTRUCT AGGREGATE WEDGE SHOULDER, TYPE B ADJACENT TO THE TEMPORARY PAVEMENT WIDENING.
- GRADE TEMPORARY DITCHES AND PROVIDE TEMPORARY EROSION CONTROL MEASURES. WORK SHALL BE COMPLETED UNDER TRAFFIC CONTROL STANDARDS 701006, 701011, 701201, OR 701326.

STAGE 1B - MAJOR WORK ITEMS

- CONSTRUCT FULL DEPTH SAW CUT FROM STA. 432+31.18 TO STA. 441+13.79 AND STA. 441+80.09 TO STA. 449+53.82. SAW CUT REQUIRED FOR PAVEMENT REMOVAL TO BE COMPLETED IN STAGE 1. WORK TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701201 OR 701326.
- CONSTRUCT PAVEMENT REMOVAL AND CLASS D PATCH FROM STA. 432+31.18 TO STA. 441+13.79 AND STA. 441+80.09 TO STA. 449+53.82. PAVEMENT REMOVAL AND CLASS D PATCH REQUIRED TO ACCOMMODATE CONSTRUCTION OF THE TEMPORARY SHEET PILING IN STAGE 1. WORK TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701201.

STAGE 1C - MAJOR WORK ITEMS

- CONSTRUCT BUTT JOINT FOR TEMPORARY OVERLAY STA. 433+70 TO STA. 434+00 AND STA. 437+90 TO STA. 438+20.
- CONSTRUCT TEMPORARY RAMP STA. 433+70 TO STA. 433+74.50 AND STA. 438+15.50 TO STA. 438+20.
- CONSTRUCT TEMPORARY HMA OVERLAY FROM STA. 433+70 TO STA. 437+20 TO ACCOMMODATE DRIVEWAY ACCESS IN STAGE 1.
- CONSTRUCT ADDITIONAL SAW CUT REQUIRED FOR PAVEMENT REMOVAL TO BE COMPLETED IN STAGE 1.
- ALL WORK IN STAGE 1C TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701201.

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE
- (E) PROP. HMA SURFACE COURSE
- (F) PROP. HMA SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDER
- (H) PROP. AGGREGATE SUB-BASE
- (I) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (J) 8-1/2", TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
1/2" - HMA SURFACE COURSE, MIX "D", N50
7" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
(SEE HMA MIXTURE REQUIREMENTS, SHT. 7)
- (K) TEMPORARY SHEET PILING
- (L) AGGREGATE WEDGE SHOULDER, TYPE B
- (M) TEMPORARY PAVEMENT MARKING LINE
- (N) SAW CUT - FULL DEPTH
- (O) SHORT-TERM PAVEMENT MARKINGS
- (P) HMA SURFACE REMOVAL, 2"

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	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

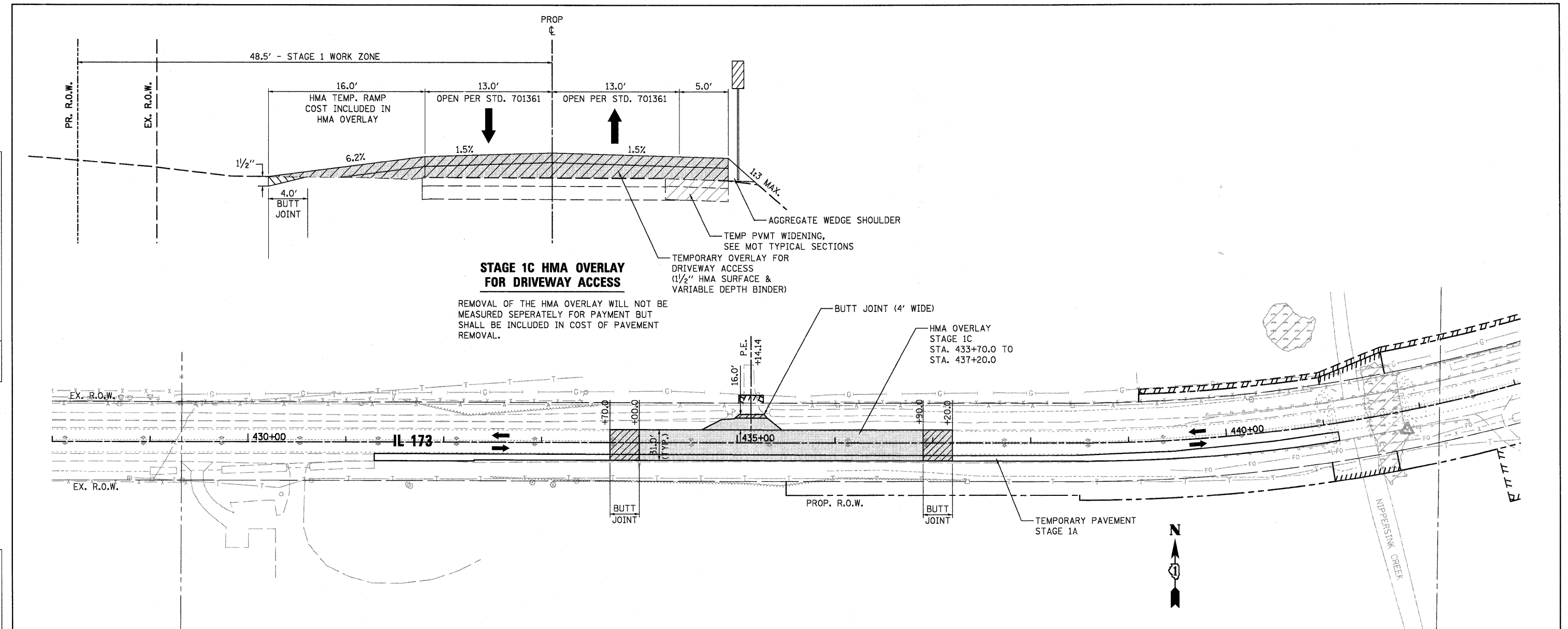
**MAINTENANCE OF TRAFFIC
STAGE 1A & 1B TYPICAL SECTIONS**

SCALE: SHEET NO. 20 OF 106 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	20
CONTRACT NO. 60I29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

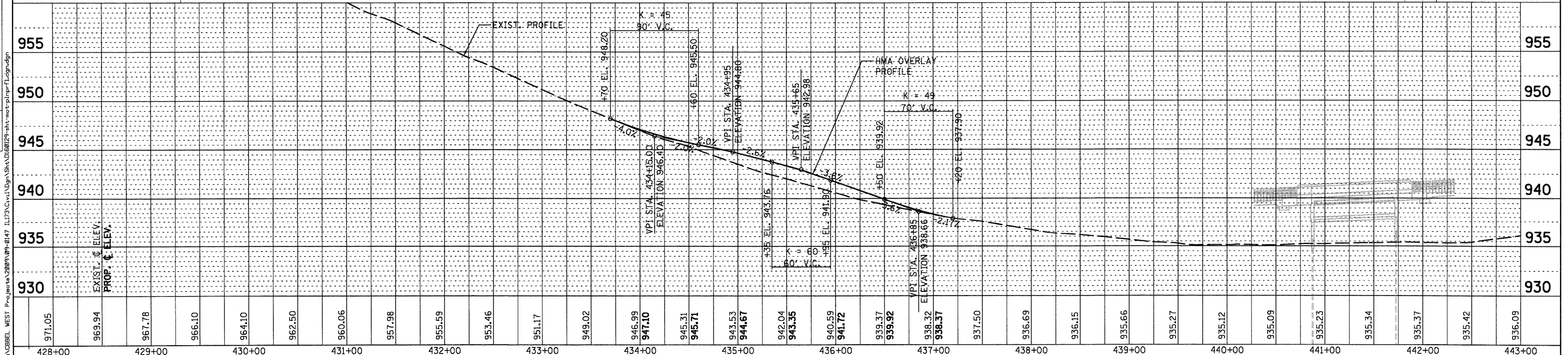
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	PLOTTED	
	GRADES CHECKED	
	RT. OF WAY CHECKED	
	NO. _____	
	STR. FILE NAME	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STR. FILE NAME	
	NO. _____	
	NOTATIONS	
	HT:mas:plm:plm:fdg:dp	



STAGE 1C HMA OVERLAY FOR DRIVEWAY ACCESS

REMOVAL OF THE HMA OVERLAY WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN COST OF PAVEMENT REMOVAL.



971.05	969.94	967.78	966.10	964.10	962.50	960.06	957.98	955.59	953.46	951.17	949.02	946.99	947.10	945.31	945.71	943.53	944.67	942.04	943.35	940.59	941.72	939.37	939.92	938.32	938.37	937.50	936.69	936.15	935.66	935.27	935.12	935.09	935.23	935.34	935.37	935.42	936.09
428+00	429+00	430+00	431+00	432+00	433+00	434+00	435+00	436+00	437+00	438+00	439+00	440+00	441+00	442+00	443+00																						

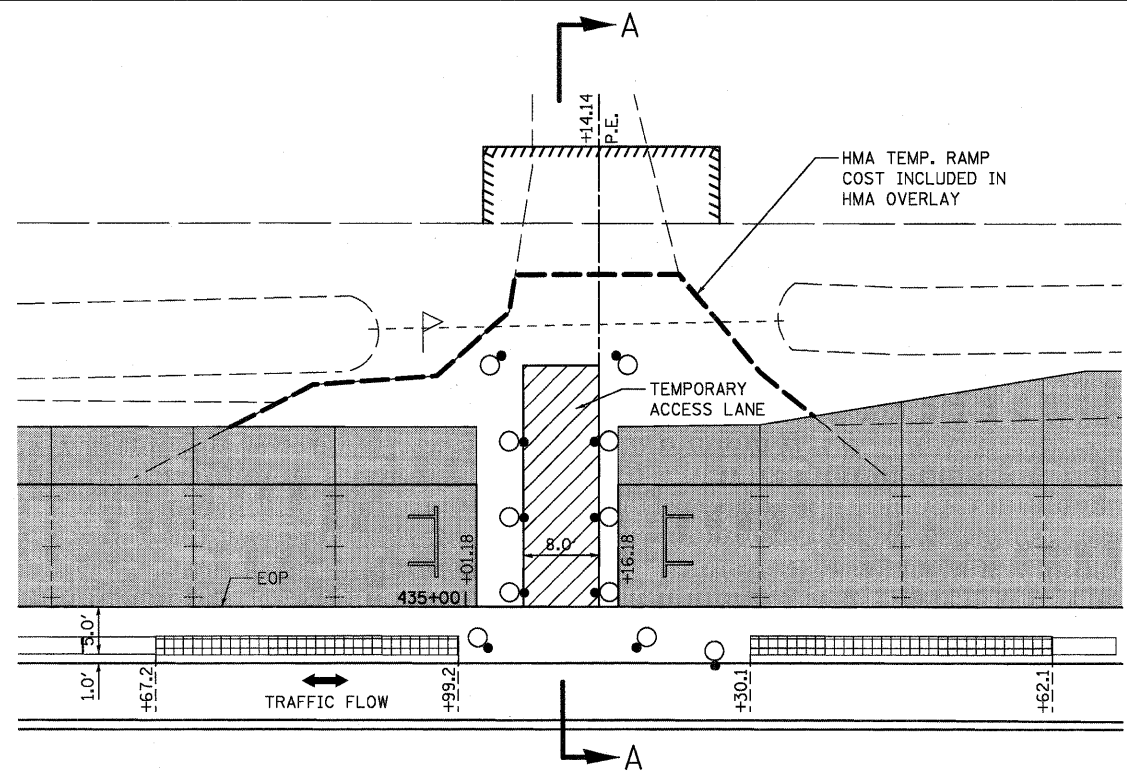
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118 West Main Street, Suite 201
St. Charles, Illinois 60174

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PLLOT DATE = 1/6/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1C - HMA OVERLAY FOR DRIVEWAY ACCESS

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 21
SCALE: SHEET NO. 21 OF 106 SHEETS STA. TO STA.			CONTRACT NO. 60I29	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

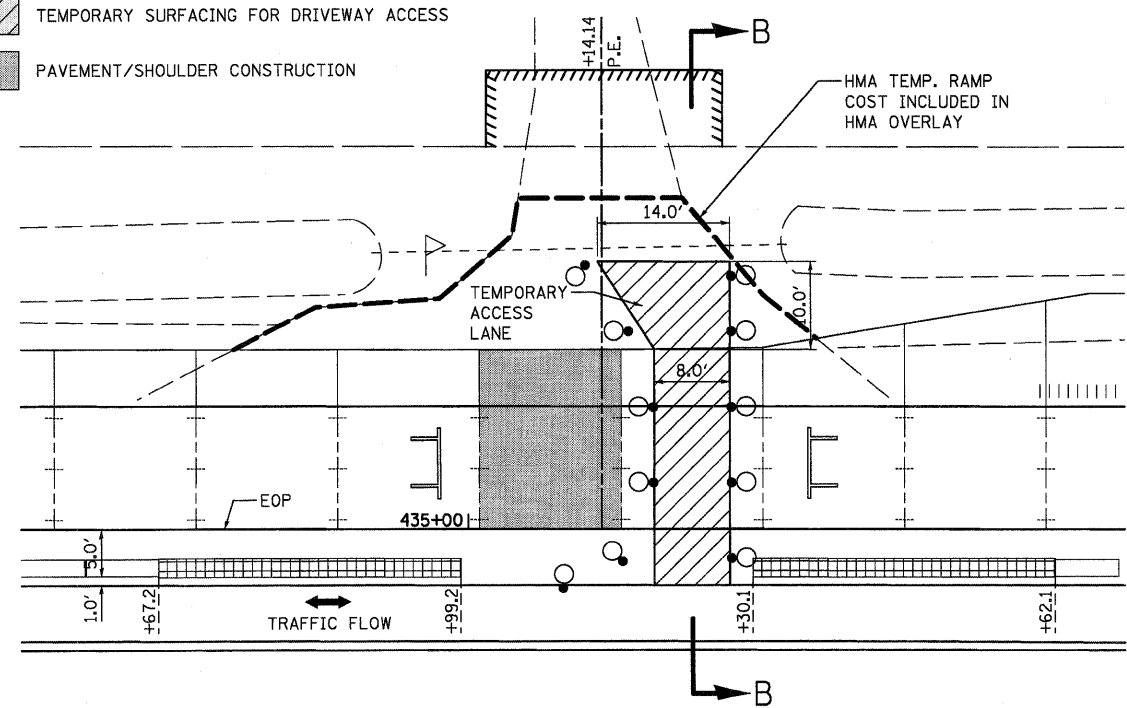


SUBSTAGE 1 - DRIVEWAY ACCESS

GAP DRIVEWAY STA. 435+01.18 TO STA. 435+16.18
CONSTRUCT ADJACENT PCC PAVEMENT, USE EXISTING
HMA PAVEMENT FOR ACCESS.

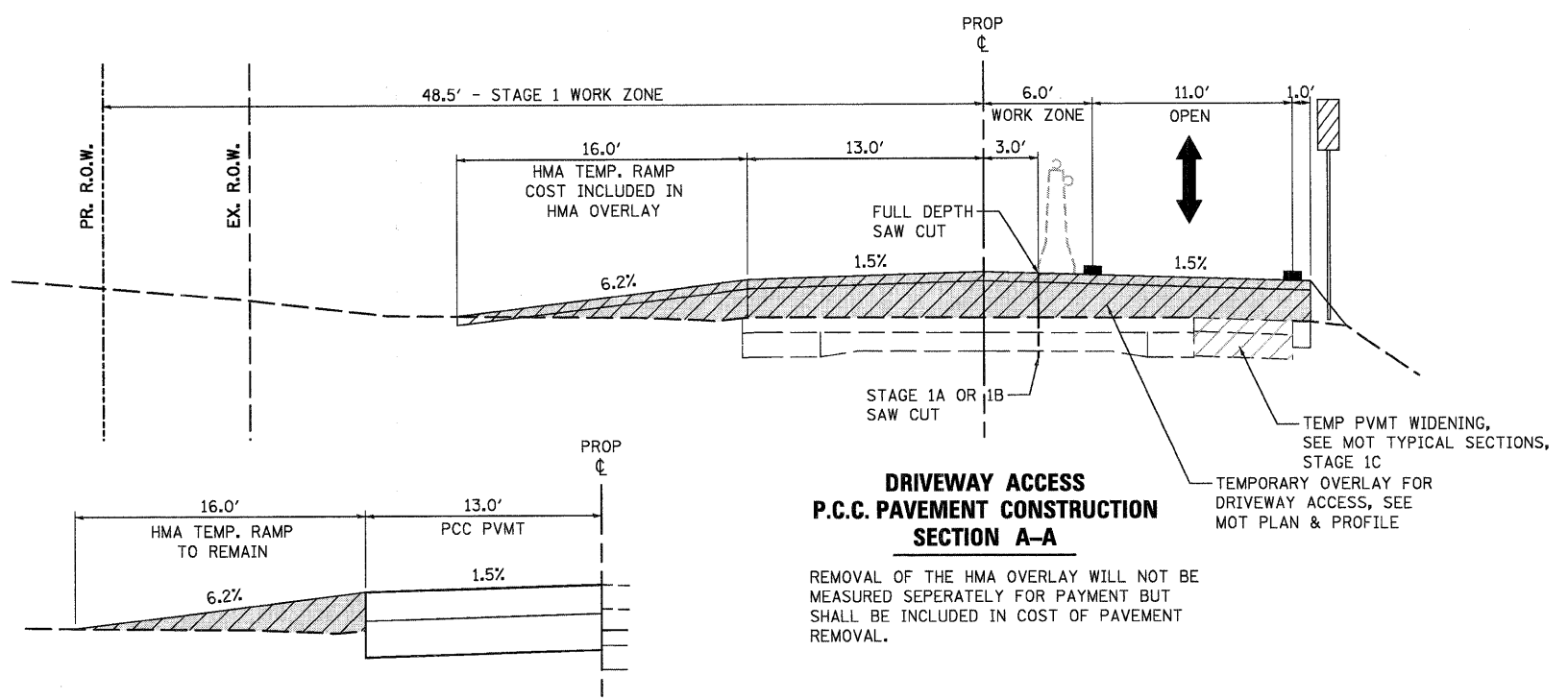
LEGEND

- HMA TEMPORARY RAMP
- ACCESS AREA - EXIST PVMT
- TEMPORARY SURFACING FOR DRIVEWAY ACCESS
- PAVEMENT/SHOULDER CONSTRUCTION



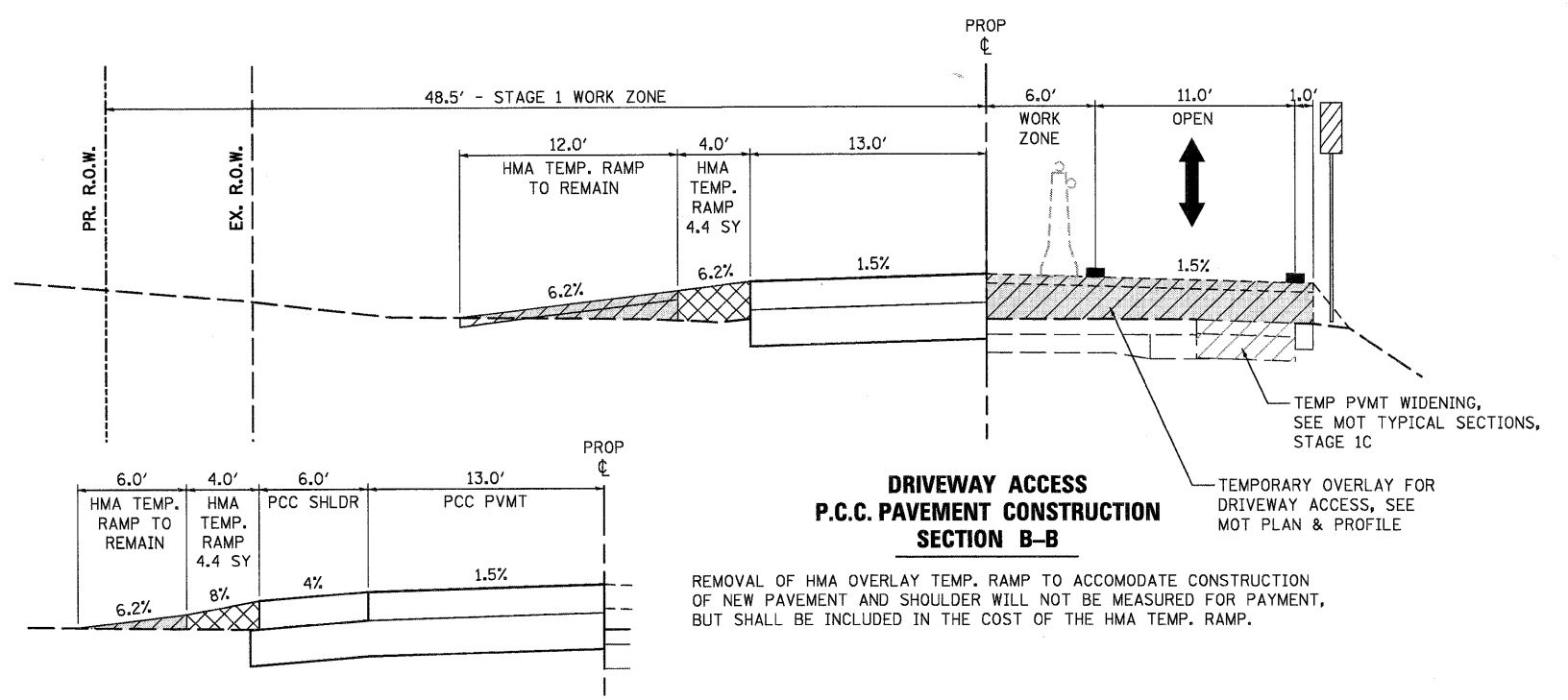
SUBSTAGE 2 - DRIVEWAY ACCESS

CONSTRUCT GAP, USING NEWLY CONSTRUCTED
PCC PAVEMENT FOR ACCESS.



**DRIVEWAY ACCESS
P.C.C. SHOULDER CONSTRUCTION
SECTION A-A**

MAINTAIN RAMP FROM PAVEMENT
CONSTRUCTION SHOWN IN SECTION B-B.



**DRIVEWAY ACCESS
P.C.C. SHOULDER CONSTRUCTION
SECTION B-B**

REMOVAL OF HMA OVERLAY TEMP. RAMP TO ACCOMMODATE CONSTRUCTION
OF NEW PAVEMENT AND SHOULDER WILL NOT BE MEASURED FOR PAYMENT,
BUT SHALL BE INCLUDED IN THE COST OF THE HMA TEMP. RAMP.

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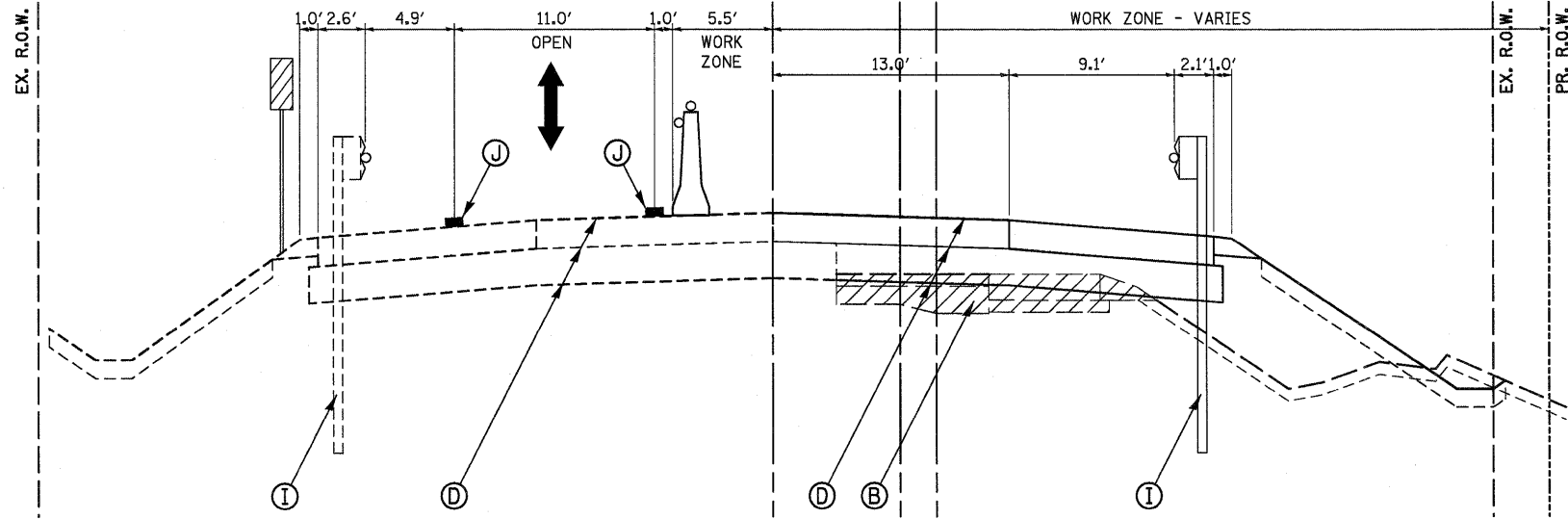
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PLOT DATE = 1/6/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC STAGE 1 & 2 DRIVEWAY ACCESS	
SCALE:	SHEET NO. 22 OF 106 SHEETS STA. TO STA.

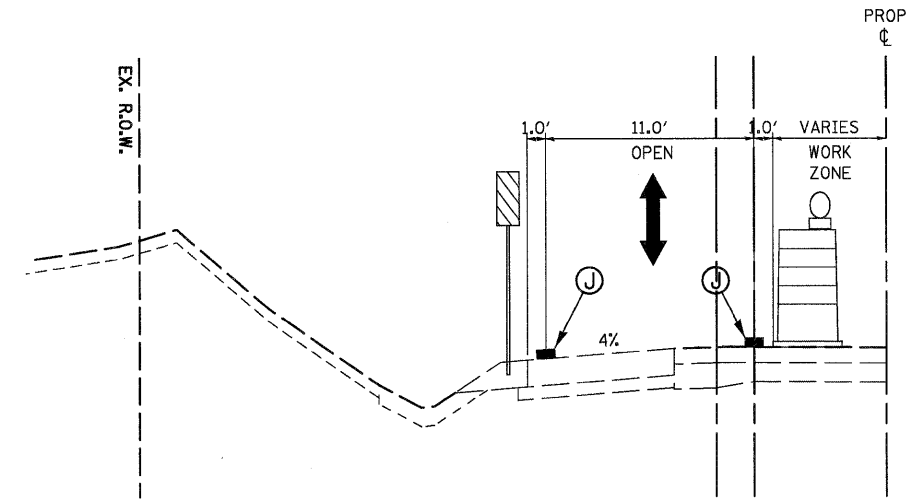
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	22
CONTRACT NO. 60I29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



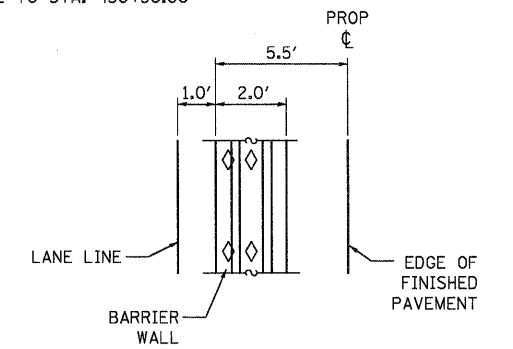
**STAGE 2
LANE CLOSURE**
STA. 432+40.1 TO STA. 437+87.0
STA. 444+75.0 TO STA. 449.30.1

STAGE 2 - MAJOR WORK ITEMS

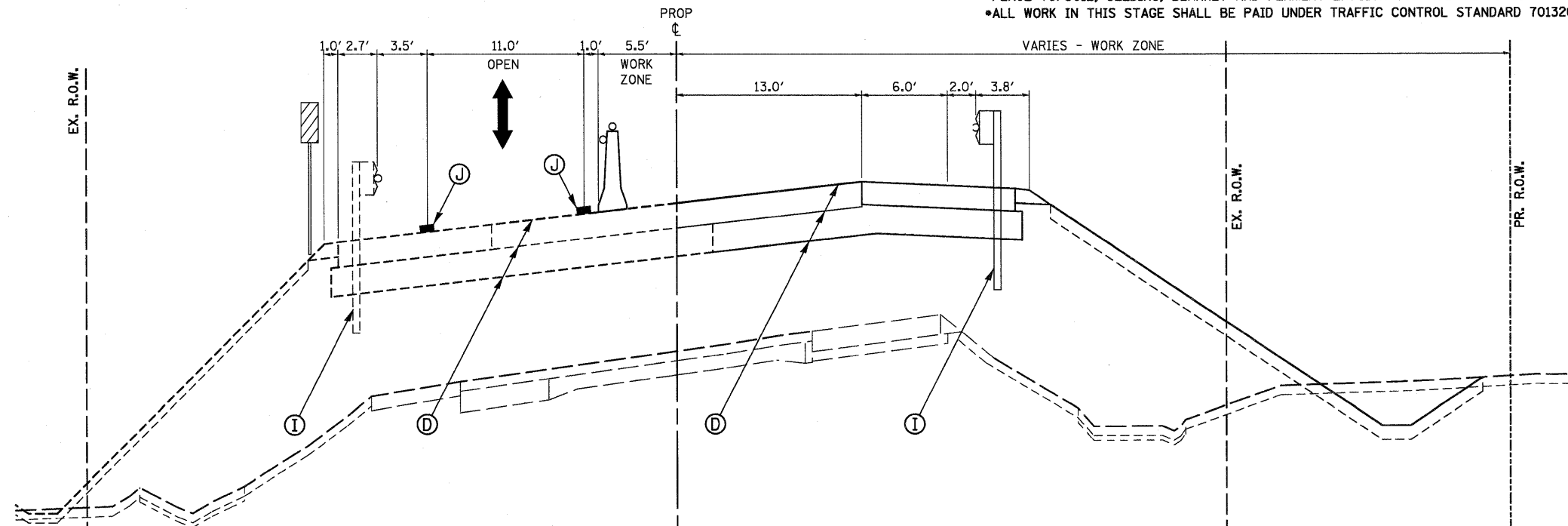
- PLACE STAGE 2 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 2 MOT PLAN).
- RELOCATE AND PLACE TEMPORARY CONCRETE BARRIER WALL AND ATTENUATORS.
- RELOCATE AND PLACE TEMPORARY BRIDGE SIGNALS, MAINTAIN ROADWAY LIGHTING.
- REMOVE AND REPLACE BRIDGE STRUCTURE AND APPROACH SLABS RIGHT OF CENTERLINE.
- REMOVE ROADWAY PAVEMENT STA. 431+41.60 TO STA. 436+63.06 AND STA. 445+09.08 TO STA. 449+53.82.
- COMPLETE PAVEMENT BREAKING STA.436+06.06 TO STA. 440+51.27 AND STA 442+20.00 TO STA. 445+09.08.
- CONSTRUCT EMBANKMENTS, SUBGRADES AND AGGREGATE BASE COURSES STA. 431+41.60 TO STA. 445+09.08.
- REMOVE OR CUT SHEET PILING AFTER STAGE 2 SUBGRADE COMPLETE.
- CONSTRUCT PCC CONCRETE PAVEMENT AND SHOULDERS STA. 431+41.60 TO STA. 445+09.08.
- CONSTRUCT THE STEEL PLATE BEAM GUARD RAIL AND END TREATMENTS.
- PLACE TOPSOIL, SEEDING, BLANKET AND PERMENT EROSION CONTROL MEASURES RIGHT OF CENTERLINE.
- ALL WORK IN THIS STAGE SHALL BE PAID UNDER TRAFFIC CONTROL STANDARD 701326.



**STAGE 2 LANE CLOSURE
WITH 4% TEMP. PAVEMENT**
STA. 431+29.01 TO STA. 432+31.18
STA. 449+53.82 TO STA. 450+50.00



**STAGE 2
TRAFFIC CONTROL**



**STAGE 2
LANE CLOSURE - EASTBOUND**
STA. 437+87 TO STA. 440+86
BRIDGE OMISSION
STA. 442+83 TO STA. 444+75

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE
- (E) PROP. HMA SURFACE COURSE
- (F) PROP. HMA SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDER
- (H) PROP. AGGREGATE SUB-BASE
- (I) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (J) 8-1/2", TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
1 1/2" - HMA SURFACE COURSE, MIX "D", N50
7" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
(SEE HMA MIXTURE REQUIREMENTS, SHT. 7)
- (K) TEMPORARY SHEET PILING
- (L) AGGREGATE WEDGE SHOULDER, TYPE B
- (M) TEMPORARY PAVEMENT MARKING LINE
- (N) SAW CUT - FULL DEPTH
- (O) SHORT-TERM PAVEMENT MARKINGS
- (P) HMA SURFACE REMOVAL, 2"

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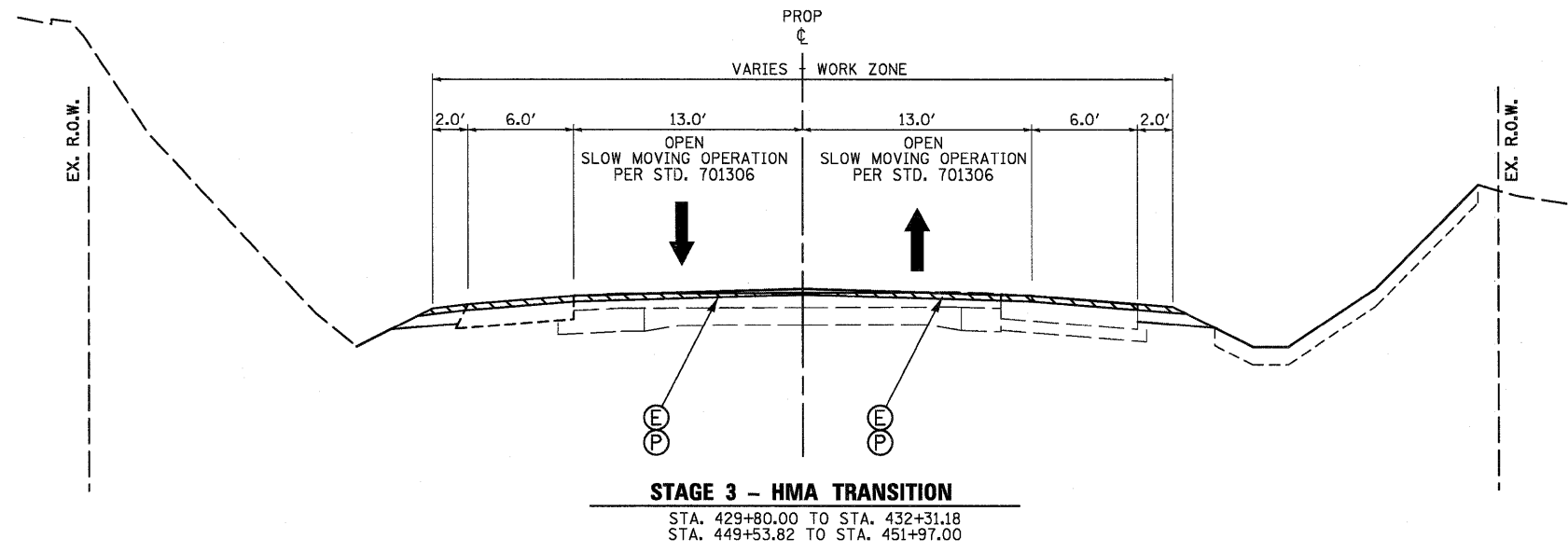
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	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2 TYPICAL SECTIONS**

SCALE: SHEET NO. 23 OF 106 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	23
CONTRACT NO. 60I29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

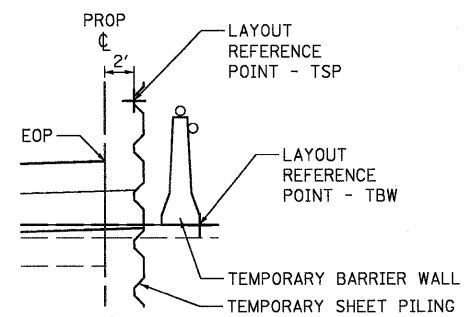


STAGE 3 - MAJOR WORK ITEMS

- REMOVE STAGE 2 TRAFFIC CONTROL.
- SURFACE MILLING STA. 429+80.00 TO STA. 432+31.18 AND STA. 449+53.82 TO STA. 451+97.00. WORK TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701201.
- CONSTRUCT BUTT JOINT FOR SURFACE OVERLAY STA. 429+80 TO 429+84.5 AND STA. 451+92.50 TO STA. 451+97.00
- CONSTRUCT TEMPORARY HMA RAMP STA. 429+80 TO 429+85 AND STA. 451+92.00 TO STA. 451+97.00.
- TACK COAT SURFACE AND PLACE HMA SURFACE COURSE.
- PLACE SHORT-TERM PAVEMENT MARKINGS.
- COMPLETE AGGREGATE SHOULDER TO FINISHED GRADE.
- COMPLETE PERMENT PAVEMENT MARKINGS STA. 429+40 TO STA. 452+50. WORK TO BE COMPLETED UNDER TRAFFIC CONTROL STANDARD 701301 OR 701311.
- COMPLETE PERMENT ROADWAY SIGNING, TREE PLANTING, FENCING AND ALL OTHER UNFINISHED ITEMS OF WORK. THIS WORK SHALL BE UNDER TRAFFIC CONTROL STANDARDS 701006, 701011, 701201, OR 701326.

**STAGE 1
TEMPORARY BARRIER WALL AND
TEMPORARY SHEET PILING
LAYOUT TABLE**

STATION	BARRIER WALL OFFSET	SHEET PILING OFFSET	STATION	BARRIER WALL OFFSET	SHEET PILING OFFSET
431+27.64	4.00 LT		442+25.00	4.11 RT	0.61 RT
431+50.00	3.21 LT		442+50.00	4.26 RT	0.76 RT
431+75.00	0.96 LT		442+75.00	4.39 RT	0.89 RT
432+00.00	1.34 RT		443+00.00	4.53 RT	1.03 RT
432+25.00	3.62 RT		443+25.00	4.67 RT	1.17 RT
432+40.14	5.00 RT		443+50.00	4.81 RT	1.31 RT
432+50.00	5.00 RT		443+75.00	4.95 RT	1.45 RT
433+00.00	5.00 RT		444+00.00	5.09 RT	1.59 RT
433+50.00	5.00 RT		444+25.00	5.22 RT	1.72 RT
434+00.00	5.00 RT		444+50.00	5.36 RT	1.86 RT
434+50.00	5.00 RT		444+75.00	5.49 RT	1.99 RT
434+67.22	5.00 RT		445+00.00	5.50 RT	2.00 RT
435+62.14	5.00 RT		445+25.00	5.50 RT	2.00 RT
436+00.00	5.00 RT		445+50.00	5.50 RT	2.00 RT
436+02.14	5.00 RT		445+75.00	5.50 RT	2.00 RT
436+50.00	5.13 RT		446+00.00	5.50 RT	
437+00.00	5.27 RT		446+25.00	5.50 RT	
437+50.00	5.40 RT		446+50.00	5.50 RT	
437+87.00	5.50 RT		446+75.00	5.50 RT	
438+00.00	5.50 RT		447+00.00	5.50 RT	
438+25.00	5.50 RT		447+25.00	5.50 RT	
438+50.00	5.50 RT		447+50.00	5.50 RT	
438+75.00	5.50 RT		447+75.00	5.50 RT	
439+00.00	5.50 RT		448+00.00	5.50 RT	
439+25.00	5.50 RT		448+25.00	5.50 RT	
439+50.00	5.50 RT		448+50.00	5.50 RT	
439+75.00	5.50 RT		448+75.00	5.50 RT	
440+00.00	5.50 RT		449+00.00	5.50 RT	
440+25.00	5.50 RT		449+25.00	5.50 RT	
440+50.00	5.50 RT		449+30.14	5.50 RT	
440+75.00	5.31 RT		449+50.00	3.83 RT	
441+00.00	5.06 RT		449+75.00	1.72 RT	
441+25.00	4.80 RT		450+00.00	0.32 LT	
441+50.00	4.55 RT		450+25.00	2.51 LT	
441+75.00	4.29 RT		450+42.64	4.00 LT	
442+00.00	4.04 RT				



**STAGE 1
TEMPORARY BARRIER WALL AND SHEET PILING
LAYOUT REFERENCE POINT DETAIL**

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE
- (E) PROP. HMA SURFACE COURSE
- (F) PROP. HMA SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDER
- (H) PROP. AGGREGATE SUB-BASE
- (I) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (J) 8-1/2" - TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
1/2" - HMA SURFACE COURSE, MIX "D", N50
7" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
(SEE HMA MIXTURE REQUIREMENTS, SHT. 7)
- (K) TEMPORARY SHEET PILING
- (L) AGGREGATE WEDGE SHOULDER, TYPE B
- (M) TEMPORARY PAVEMENT MARKING LINE
- (N) SAW CUT - FULL DEPTH
- (O) SHORT-TERM PAVEMENT MARKINGS
- (P) HMA SURFACE REMOVAL, 2"

FILE NAME = F:\CBBEL WEST Project\2009\09-8147_IL173\Civil\Ngn\Sh1\168123-sh1-mot-tp5.dgn



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PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 3 TYPICAL SECTIONS**

SCALE:	SHEET NO. 24 OF 106 SHEETS	STA. TO STA.	F.A. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 24
			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 60I29		

END CONSTRUCTION

G20-2A(0)-3618
STA. 423+50, L.T.
(NOT SHOWN)

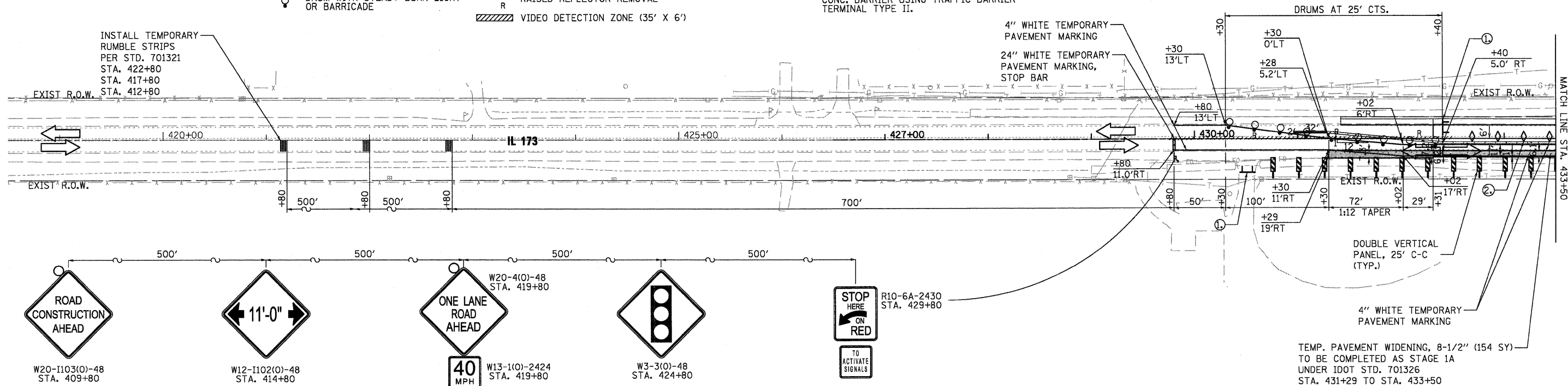
LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT WIDENING, 8-1/2"
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE

- TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER
- PERMANENT PAVEMENT MARKING REMOVAL
- RAISED REFLECTOR REMOVAL
- VIDEO DETECTION ZONE (35' X 6')

STAGING PLAN NOTES:

1. TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.



THE COST TO FURNISH, INSTALL AND REMOVE THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321

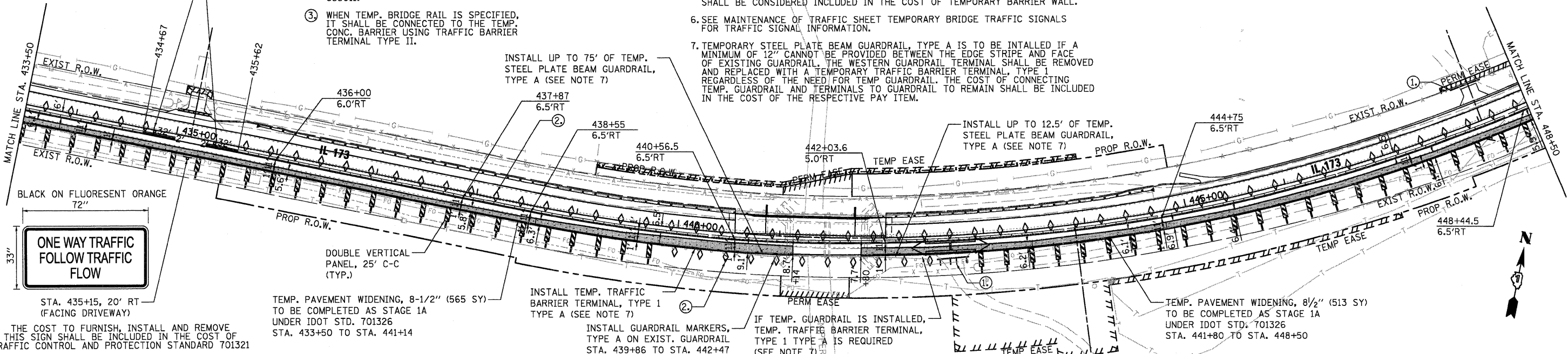
STAGING PLAN NOTES:

1. TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

GENERAL NOTES:

1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101900, AGGREGATE WEDGE SHOULDER TYPE B.
4. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. ADJUSTMENTS NECESSARY TO TRAFFIC CONTROL ITEMS TO MAINTAIN ACCESS SHALL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
5. TYPE C BARRIER WALL MARKERS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
6. SEE MAINTENANCE OF TRAFFIC SHEET TEMPORARY BRIDGE TRAFFIC SIGNALS FOR TRAFFIC SIGNAL INFORMATION.
7. TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A IS TO BE INSTALLED IF A MINIMUM OF 12" CANNOT BE PROVIDED BETWEEN THE EDGE STRIPE AND FACE OF EXISTING GUARDRAIL. THE WESTERN GUARDRAIL TERMINAL SHALL BE REMOVED AND REPLACED WITH A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 REGARDLESS OF THE NEED FOR TEMP GUARDRAIL. THE COST OF CONNECTING TEMP. GUARDRAIL AND TERMINALS TO GUARDRAIL TO REMAIN SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEM.

8. ONE CHANGEABLE MESSAGE SIGN SHALL BE REQUIRED AT EACH END OF THE PROJECT. SEE SPECIAL PROVISIONS. LOCATION SHALL BE AS DIRECTED BY RESIDENT ENGINEER.
9. CONTRACTOR TO PLACE TEMPORARY INFORMATION SIGNING PER DISTRICT 1 STANDARD TC-22.



THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321

FILE NAME = P:\ACBREL\EST_Proj\2009\95-0147_IL173\CV1\Ugpr\SHA\DI60129-ahv-mod-1.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(800) 445-7755

USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - AH	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1**

SCALE: SHEET NO. 25 OF 106 SHEETS STA. 428+74.0 TO STA. 442+50.0

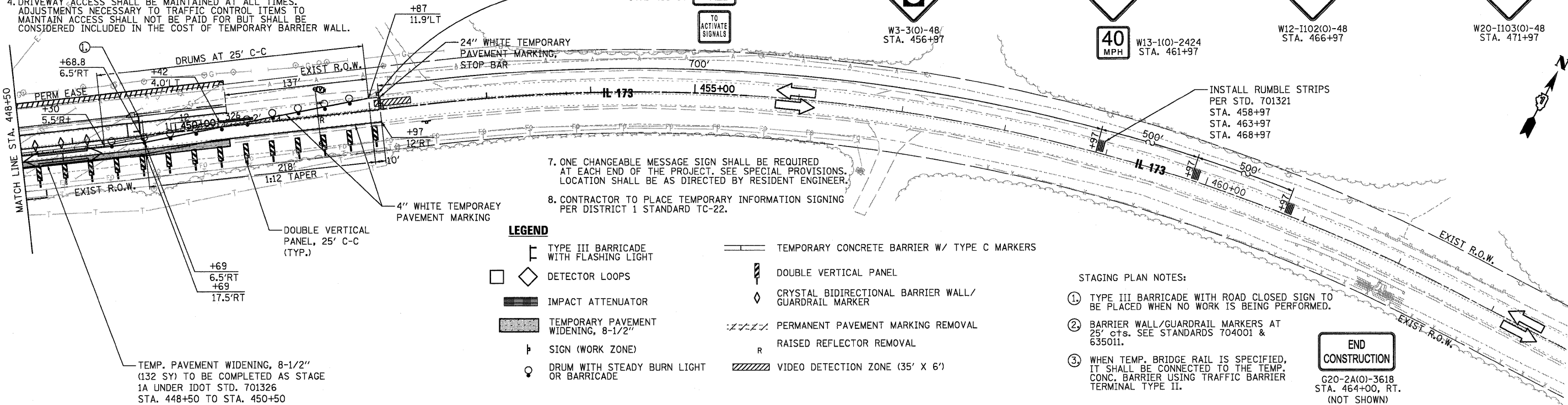
F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 25
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	

GENERAL NOTES:

1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101900, AGGREGATE WEDGE SHOULDER TYPE B.
4. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. ADJUSTMENTS NECESSARY TO TRAFFIC CONTROL ITEMS TO MAINTAIN ACCESS SHALL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.

5. TYPE C BARRIER WALL MARKERS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
6. SEE MAINTENANCE OF TRAFFIC SHEET TEMPORARY BRIDGE TRAFFIC SIGNALS FOR TRAFFIC SIGNAL INFORMATION.

7. ONE CHANGEABLE MESSAGE SIGN SHALL BE REQUIRED AT EACH END OF THE PROJECT. SEE SPECIAL PROVISIONS. LOCATION SHALL BE AS DIRECTED BY RESIDENT ENGINEER.
8. CONTRACTOR TO PLACE TEMPORARY INFORMATION SIGNING PER DISTRICT 1 STANDARD TC-22.



LEGEND

- | | | | |
|--|--|--|--|
| | TYPE III BARRICADE WITH FLASHING LIGHT | | TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS |
| | DETECTOR LOOPS | | DOUBLE VERTICAL PANEL |
| | IMPACT ATTENUATOR | | CRYSTAL BIDIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER |
| | TEMPORARY PAVEMENT WIDENING, 8-1/2" | | PERMANENT PAVEMENT MARKING REMOVAL |
| | SIGN (WORK ZONE) | | RAISED REFLECTOR REMOVAL |
| | DRUM WITH STEADY BURN LIGHT OR BARRICADE | | VIDEO DETECTION ZONE (35' X 6') |

STAGING PLAN NOTES:

1. TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

END CONSTRUCTION
G20-2A(0)-3618
STA. 464+00, RT.
(NOT SHOWN)

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116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - AH	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1**

SCALE: SHEET NO. 26 OF 106 SHEETS STA. 442+50.0 TO STA. 452+15.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	26
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

END CONSTRUCTION

G20-2A(0)-3618
STA. 423+50, LT.
(NOT SHOWN)

MAINTAIN TEMPORARY RUMBLE STRIPS PER STD. 701321
STA. 422+80
STA. 417+80
STA. 412+80

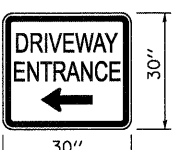
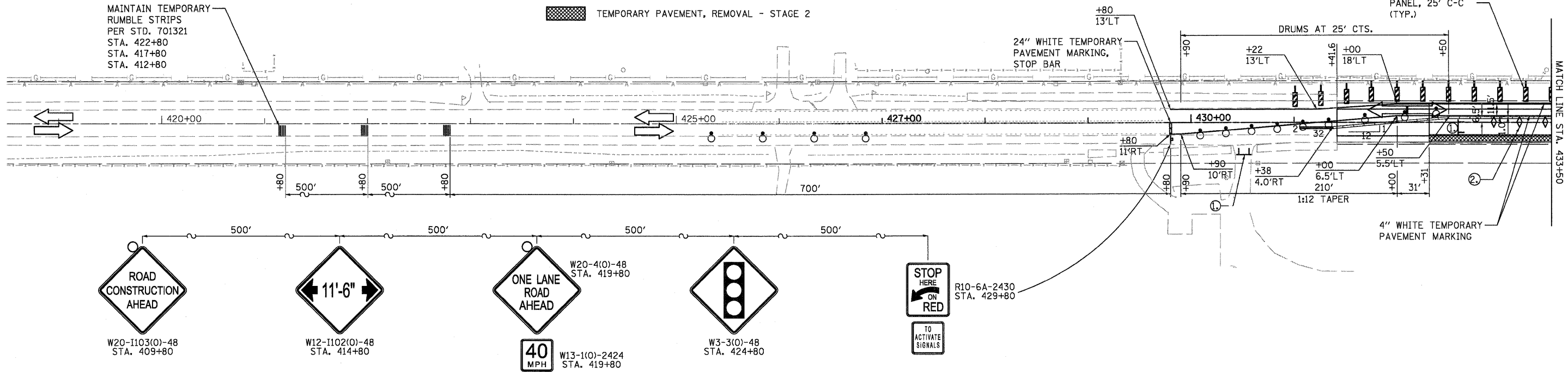
LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT WIDENING, 8-1/2" - STAGE 1
- TEMPORARY PAVEMENT BREAKING - STAGE 2
- SIGN (WORK ZONE)

- DRUM WITH STEADY BURN LIGHT OR BARRICADE
- VIDEO DETECTION ZONE (35' X 6')
- TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- PERMANENT PAVEMENT MARKING REMOVAL
- TEMPORARY PAVEMENT, REMOVAL - STAGE 2

STAGING PLAN NOTES:

1. TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.



SEE D1 STD TC-26 (2 REQ)

THE COST TO FURNISH, INSTALL AND REMOVE THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321

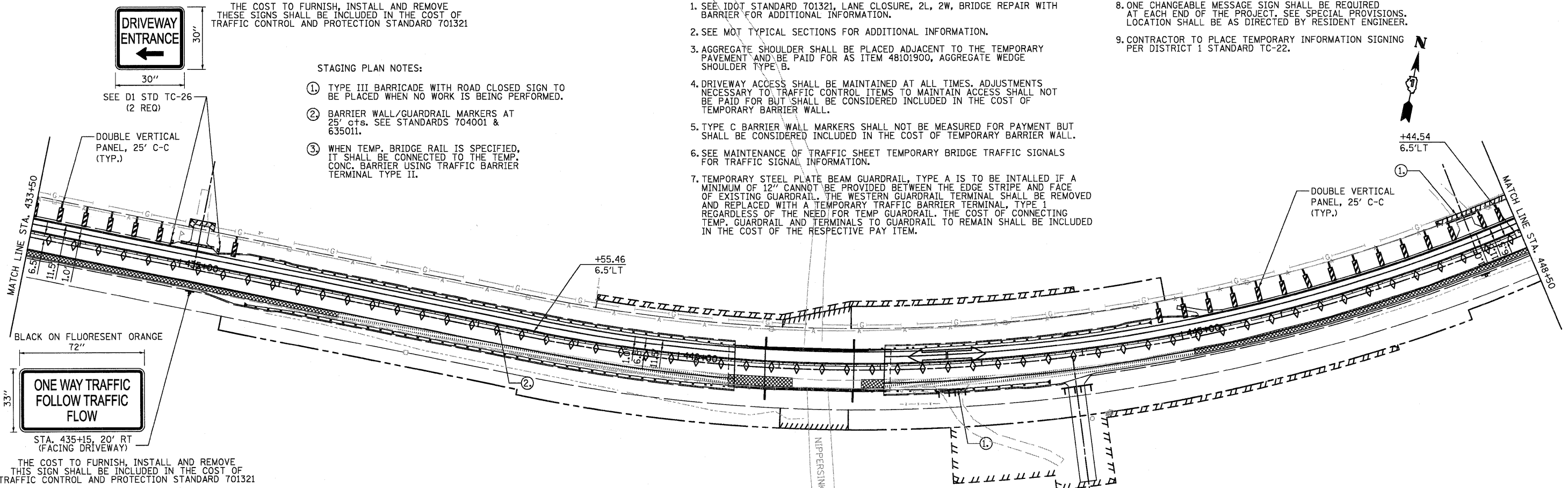
STAGING PLAN NOTES:

1. TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

GENERAL NOTES:

1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101900, AGGREGATE WEDGE SHOULDER TYPE B.
4. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. ADJUSTMENTS NECESSARY TO TRAFFIC CONTROL ITEMS TO MAINTAIN ACCESS SHALL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
5. TYPE C BARRIER WALL MARKERS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
6. SEE MAINTENANCE OF TRAFFIC SHEET TEMPORARY BRIDGE TRAFFIC SIGNALS FOR TRAFFIC SIGNAL INFORMATION.
7. TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A IS TO BE INSTALLED IF A MINIMUM OF 12" CANNOT BE PROVIDED BETWEEN THE EDGE STRIPE AND FACE OF EXISTING GUARDRAIL. THE WESTERN GUARDRAIL TERMINAL SHALL BE REMOVED AND REPLACED WITH A TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 1 REGARDLESS OF THE NEED FOR TEMP GUARDRAIL. THE COST OF CONNECTING TEMP. GUARDRAIL AND TERMINALS TO GUARDRAIL TO REMAIN SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEM.

8. ONE CHANGEABLE MESSAGE SIGN SHALL BE REQUIRED AT EACH END OF THE PROJECT. SEE SPECIAL PROVISIONS. LOCATION SHALL BE AS DIRECTED BY RESIDENT ENGINEER.
9. CONTRACTOR TO PLACE TEMPORARY INFORMATION SIGNING PER DISTRICT 1 STANDARD TC-22.



FILE NAME = P:\GDBEL\WEST Projects\2009\09-0147_IL173\Civil\1\09\1\Sht\1\016129-sh-t-mo-2-1.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
118 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

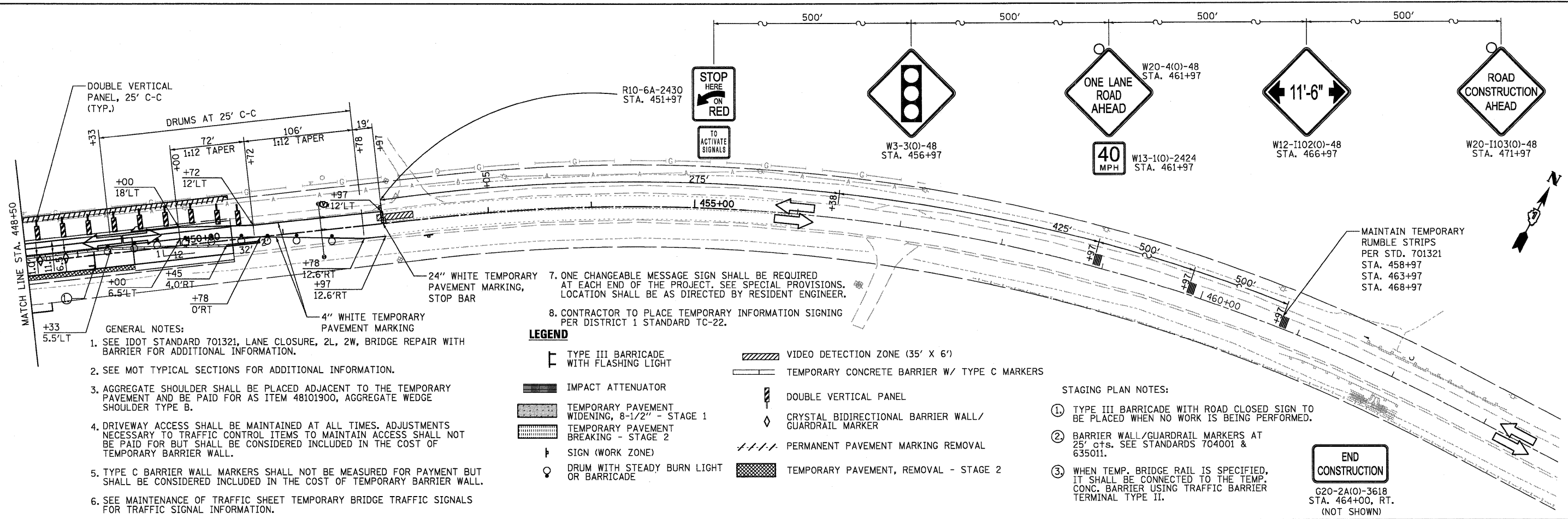
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PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: SHEET NO. 27 OF 106 SHEETS STA. 428+74.0 TO STA. 442+50.0

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 27
CONTRACT NO. 60129				
ILLINOIS FED. AID PROJECT				



- GENERAL NOTES:**
- SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
 - SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
 - AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101900, AGGREGATE WEDGE SHOULDER TYPE B.
 - DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. ADJUSTMENTS NECESSARY TO TRAFFIC CONTROL ITEMS TO MAINTAIN ACCESS SHALL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
 - TYPE C BARRIER WALL MARKERS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY BARRIER WALL.
 - SEE MAINTENANCE OF TRAFFIC SHEET TEMPORARY BRIDGE TRAFFIC SIGNALS FOR TRAFFIC SIGNAL INFORMATION.

- ONE CHANGEABLE MESSAGE SIGN SHALL BE REQUIRED AT EACH END OF THE PROJECT. SEE SPECIAL PROVISIONS. LOCATION SHALL BE AS DIRECTED BY RESIDENT ENGINEER.
- CONTRACTOR TO PLACE TEMPORARY INFORMATION SIGNING PER DISTRICT 1 STANDARD TC-22.

LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT WIDENING, 8-1/2" - STAGE 1
- TEMPORARY PAVEMENT BREAKING - STAGE 2
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE
- VIDEO DETECTION ZONE (35' X 6')
- TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER
- PERMANENT PAVEMENT MARKING REMOVAL
- TEMPORARY PAVEMENT, REMOVAL - STAGE 2

STAGING PLAN NOTES:

- TYPE III BARRICADE WITH ROAD CLOSED SIGN TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
- WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

END CONSTRUCTION
 G20-2A(0)-3618
 STA. 464+00, RT.
 (NOT SHOWN)

FILE NAME = P:\CBBREL\MEST\Projects\2009\05-0147_IL173\Civil\Drawings\1660125-att-mot-2.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

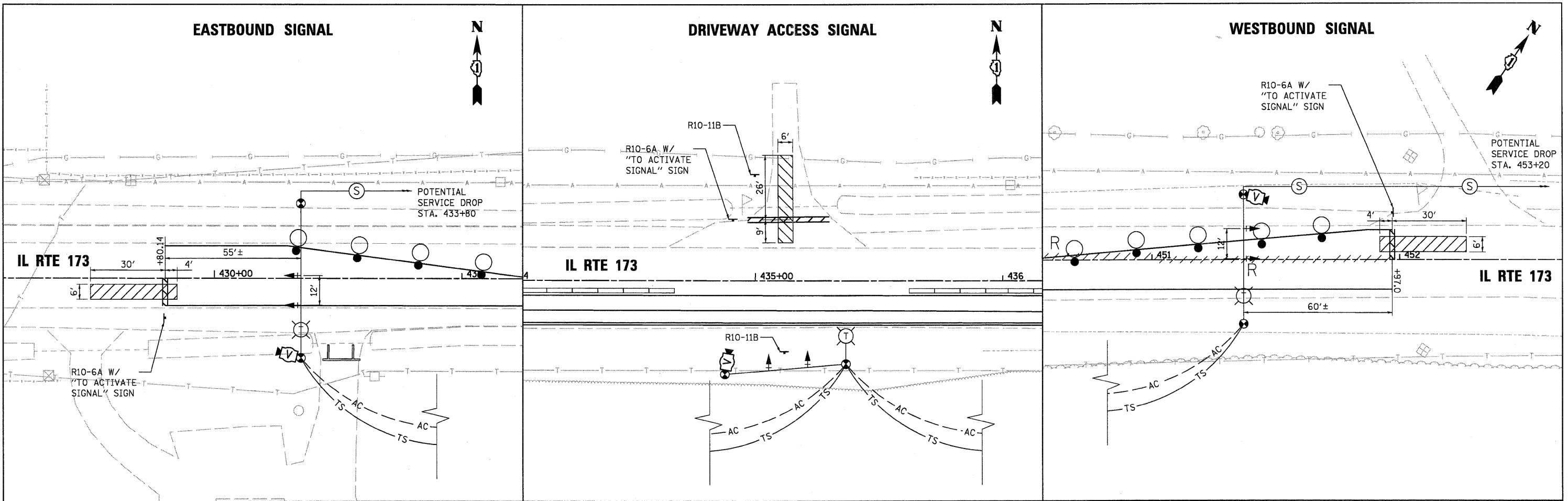
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PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 2**

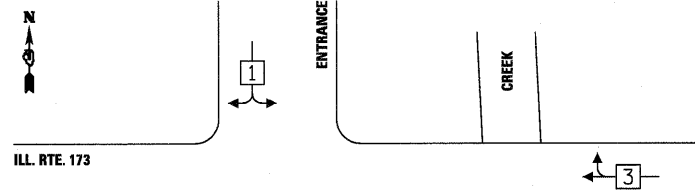
SCALE: SHEET NO. 28 OF 106 SHEETS STA. 442+50.0 TO STA. 452+15.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	28
CONTRACT NO. 60I29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



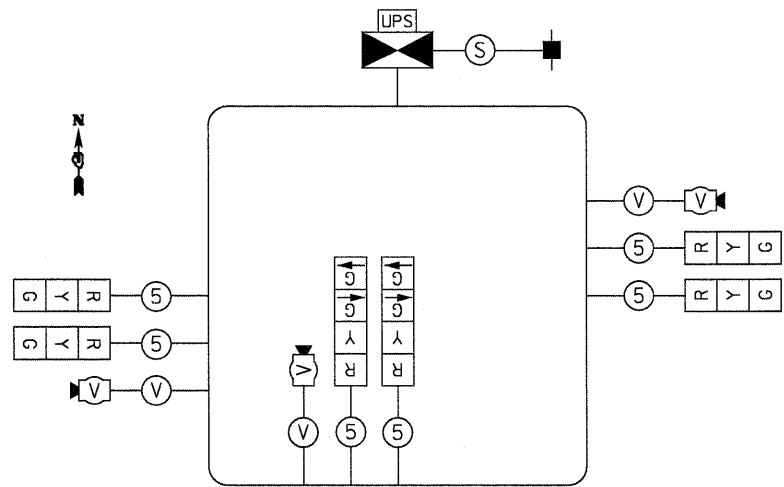
TEMPORARY BRIDGE TRAFFIC SIGNAL NOTES

1. REFER TO IDOT DISTRICT ONE STANDARD B.E. 805, "TEMPORARY LIGHTING AND TRAFFIC SIGNALS" AND THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO IDOT DISTRICT ONE STANDARD B.E. 805, "TEMPORARY LIGHTING AND TRAFFIC SIGNALS" AND THE SPECIAL PROVISIONS FOR DETAILS RELATING TO THE SHARED ROADWAY LIGHTING/TRAFFIC EQUIPMENT AND SIGNAL ELECTRIC SERVICE.
3. REFER TO MAINTENANCE-OF-TRAFFIC PLANS FOR SIGN R10-6A.



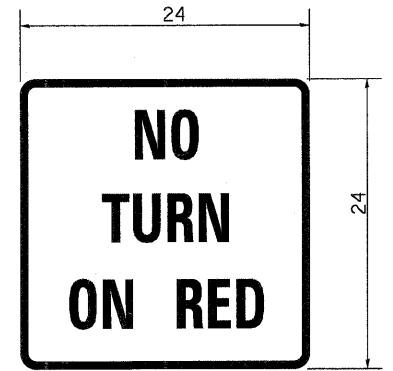
- LEGEND**
- ← ⊙ → DUAL ENTRY PHASE
 - ← □ → SINGLE ENTRY PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE.

TEMPORARY PHASE DESIGNATION DIAGRAM
N.T.S.

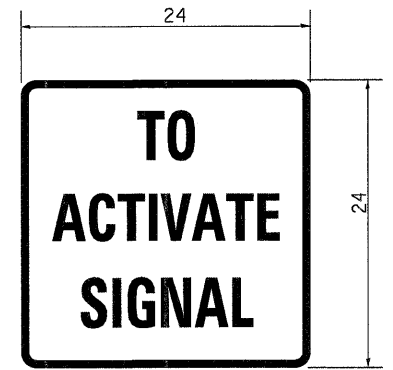


- LEGEND**
- CONTROLLER CABINET W/ U.P.S.
 - SERVICE INSTALLATION
 - INDICATES NUMBER OF CONDUCTORS IN CABLE
 - SIGNAL FACE
 - UPS
 - VIDEO DETECTOR
 - CABLES FOR VIDEO DETECTOR (POWER AND SIGNAL)
 - SERVICE CABLE AS REQUIRED

TEMPORARY CABLE PLAN
N.T.S.



R10-11B



STOP LINE SIGN FOR TEMPORARY SIGNALS

- LEGEND**
- ⊙ TEMPORARY LIGHTING
 - WOOD POLE
 - ➔ TRAFFIC SIGNAL HEAD W/ BACK PLATE
 - ▨ DETECTION ZONE
 - AC — AERIAL CABLE W/ MESSENGER WIRE
 - TS — TEMPORARY TRAFFIC SIGNAL SPAN WIRE

SIZE: 24 x 24
4 CAPITAL LETTERS - BLACK
1/2 BORDER - BLACK
WHITE REFLECTIVE - TYPE AP
HIGH INTENSITY PRISMATIC SHEETING

NOTES:
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE NAME = P:\CBBEL WEST Projects\2009\09-0147_IL173\Civil\10.dgn; IL173\Civil\10.dgn; S:\1\160129\shh-ec\fragst.dgn

WBK WILLIS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = ahaglund	DESIGNED - KMA	REVISED -
PLOT SCALE =	DRAWN - KMA	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

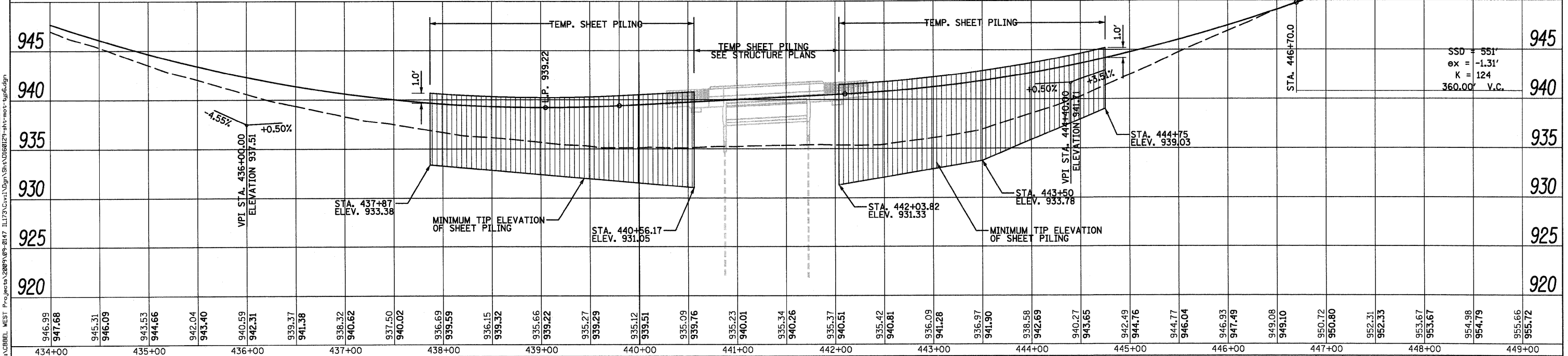
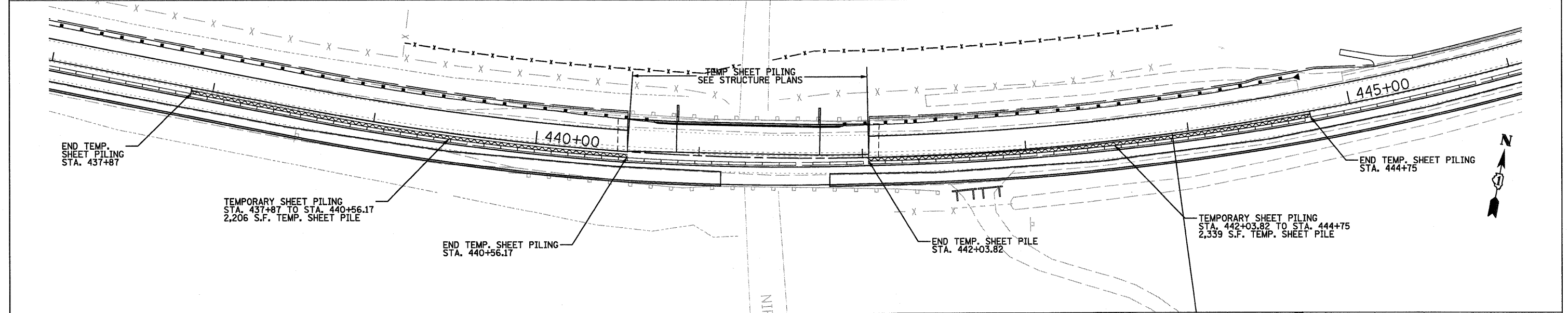
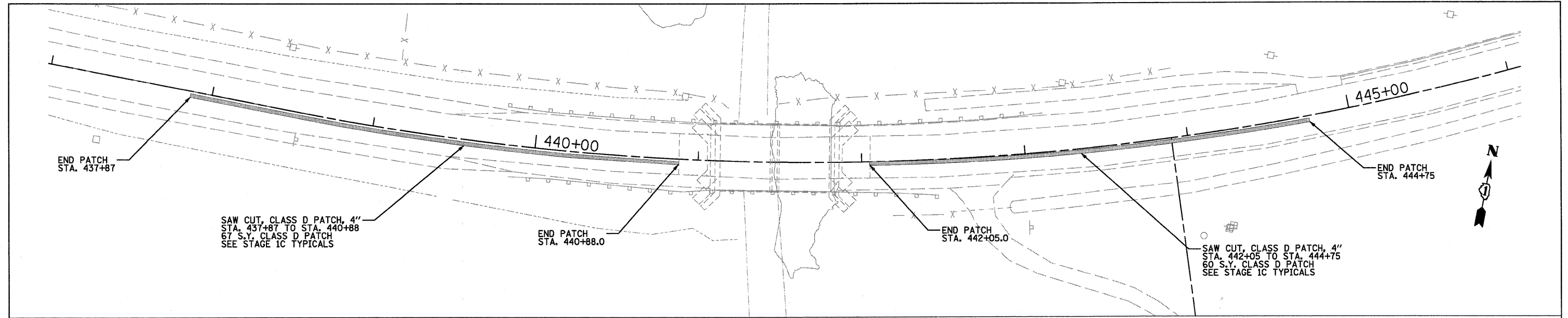
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC	
TEMPORARY BRIDGE TRAFFIC SIGNALS	
SCALE:	SHEET NO. 29 OF 106 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 29
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



946.99	947.68	945.31	946.09	943.53	944.66	942.04	943.40	940.59	942.31	939.37	941.58	938.32	940.62	937.50	940.02	936.69	939.59	936.15	939.32	935.66	939.22	935.27	939.29	935.12	939.51	935.09	939.76	935.23	940.01	935.34	940.26	935.37	940.51	935.42	940.81	936.09	941.28	936.97	941.90	938.58	942.69	940.27	943.65	942.49	944.76	944.77	946.04	946.93	947.49	949.08	949.10	950.72	950.80	952.31	952.33	953.67	953.67	954.98	954.79	955.66	955.72
434+00	435+00	436+00	437+00	438+00	439+00	440+00	441+00	442+00	443+00	444+00	445+00	446+00	447+00	448+00	449+00																																														

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = USER#	DESIGNED - KMA	REVISED -
PLLOT SCALE =	DRAWN - KMA	REVISED -
PLLOT DATE = 1/6/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

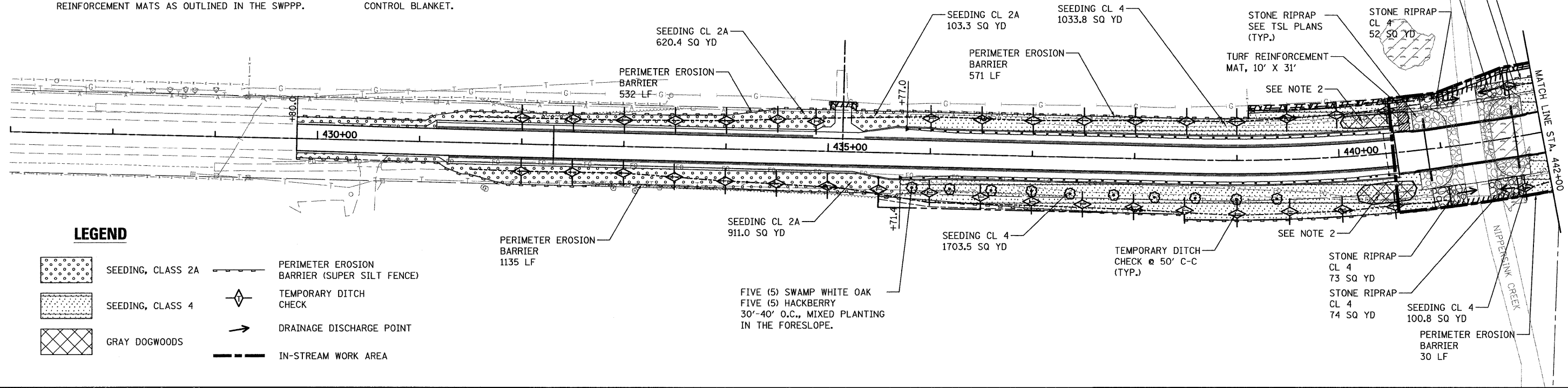
**MAINTENANCE OF TRAFFIC
 STAGE 1 TEMPORARY SHEET PILING**

SCALE: SHEET NO. 30 OF 106 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 30
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	

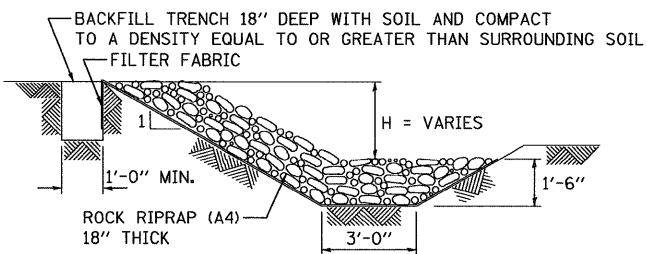
NOTES:

1. LOCATION AND LIMITS OF SEEDING AND PLANTINGS MAY BE CHANGED AT THE DISCRETION OF THE PROJECT RESIDENT ENGINEER.
2. THIRTY (30) GRAY DOGWOOD, 3' O.C., STAGGERED ROWS (CLASS 4 SEEDING STILL DONE IN THIS AREA).
3. ALL PERMANENT DITCHING WILL BE LINED WITH TURF REINFORCEMENT MATS AS OUTLINED IN THE SWPPP.
4. ALL TEMPORARY AND PERMANENT SURFACES WILL BE TREATED WITH GRANULAR OR DRY POWDER POLYMER. THE WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF "EROSION CONTROL" IN THE SPECIAL PROVISIONS.
5. DRY POWDER OR GRANULAR POLYMER WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL BLANKET.



LEGEND

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- GRAY DOGWOODS
- PERIMETER EROSION BARRIER (SUPER SILT FENCE)
- TEMPORARY DITCH CHECK
- DRAINAGE DISCHARGE POINT
- IN-STREAM WORK AREA



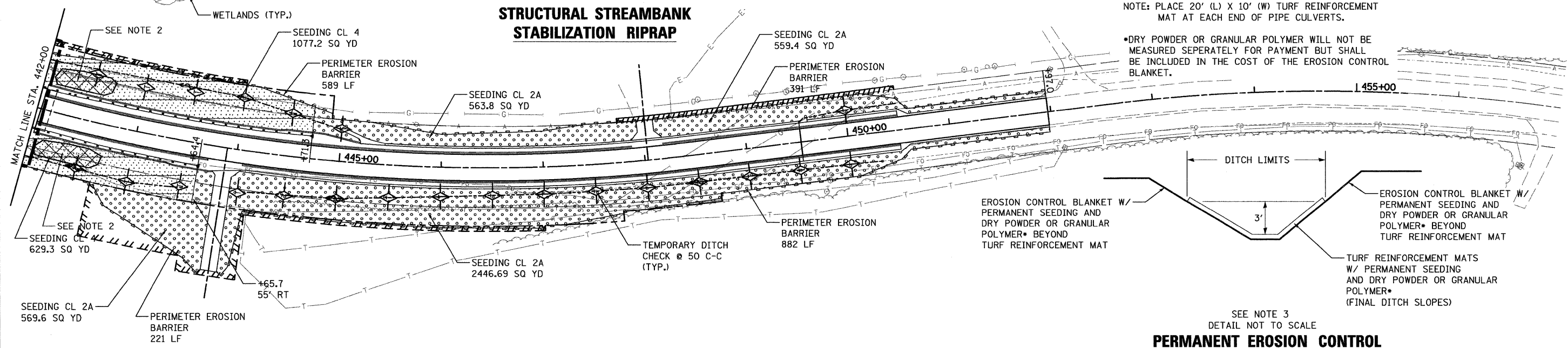
STRUCTURAL STREAMBANK STABILIZATION RIPRAP

TEMPORARY SEEDING WITH EROSION CONTROL BLANKET AND DRY POWER OR GRANULAR POLYMER* ON ALL DISTURBED AREAS

STAGE 1 - TEMPORARY EROSION CONTROL

NOTE: PLACE 20' (L) X 10' (W) TURF REINFORCEMENT MAT AT EACH END OF PIPE CULVERTS.

*DRY POWDER OR GRANULAR POLYMER WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL BLANKET.



PERMANENT EROSION CONTROL

SEE NOTE 3
DETAIL NOT TO SCALE

FILE NAME = P:\CBBEL_MEST Projects\2008\09-01\47 1173\Civil\Ogn\Sha.D160229-alt-erol.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60114
(630) 443-7755

USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 2/9/2011	CHECKED - P.J.F.	REVISED -
	DATE - 1/25/11	REVISED -

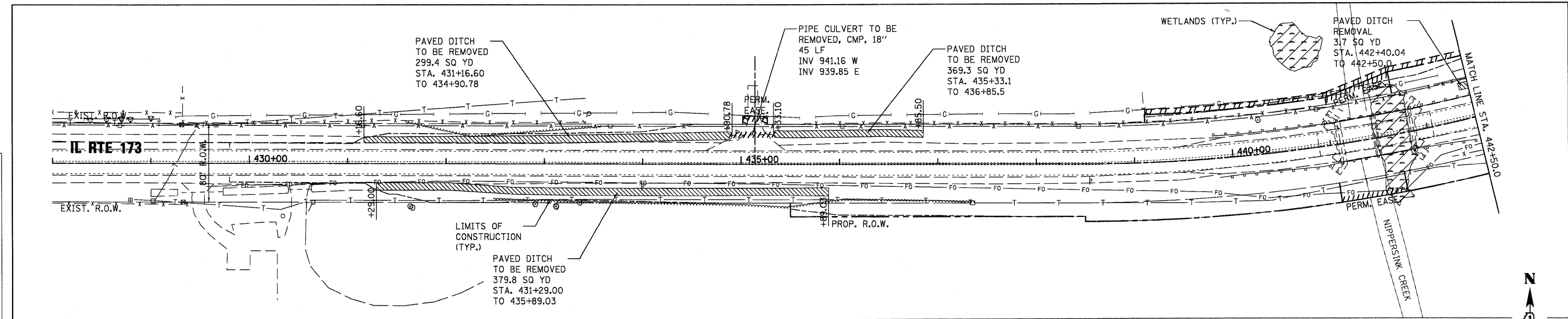
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL & LANDSCAPE PLAN	
SCALE:	SHEET NO. 31 OF 106 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	31
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF FILE	
CADD FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF FILE	
CADD FILE NAME	
PROFILE	
NOTE BOOK	
NO.	



NOTES:

ANY PLUGS, CAPS, OR FITTINGS REQUIRED IN THE CONSTRUCTION OF PIPE UNDERDRAINS SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS.

*STATION, OFFSET, AND INVERTS FOR PIPE CULVERTS ARE TO THE END OF THE METAL END SECTION.

METAL END SECTIONS SHALL BE PER STANDARD (542406). EXIST. R.O.W.

CLEANING PAVED DITCH STA 427+82.9 TO STA 431+41.6 TO BE CLEANED UNDER STANDARD (701201 OR 701301)

+84.3 31.9' LT

PIPE CULVERT CL D TY 1, EQUIVALENT ROUND-SIZE, 30" W/ METAL E.S. 30" 46 LF @ 2.12% *INV 941.25 W *INV 940.10 E

CONC HDWL FOR P DRAIN STA. 439+04.7 32.8' LT. (STD. 6011001)

CONC HDWL FOR P DRAIN STA. 440+88.4 42.0' LT. (STD. 6011001)

CONC HDWL FOR P DRAIN STA. 441+84.6 46.5' LT. (STD. 6011001)

CONC HDWL FOR P DRAIN STA. 436+62.9 35.0' LT. (STD. 6011001)

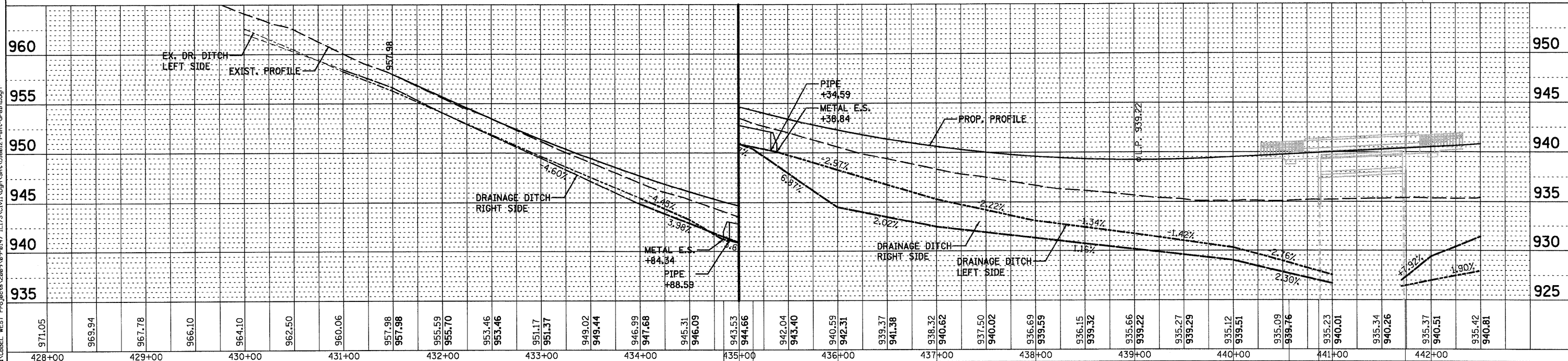
CONC HDWL FOR P DRAIN STA. 436+63.1 35.6' LT. (STD. 6011001)

PIPE UNDERDRAINS, 4" 64 LF INV 937.35 N INV 937.34 S

PIPE UNDERDRAIN FOR STRUCTURES, 4" (TYP.)

CONC HDWL FOR P DRAIN STA. 440+90.9 45.9' RT. (STD. 6011001)

CONC HDWL FOR P DRAIN STA. 441+81.9 46.0' RT. (STD. 6011001)



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St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED - SBP/KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

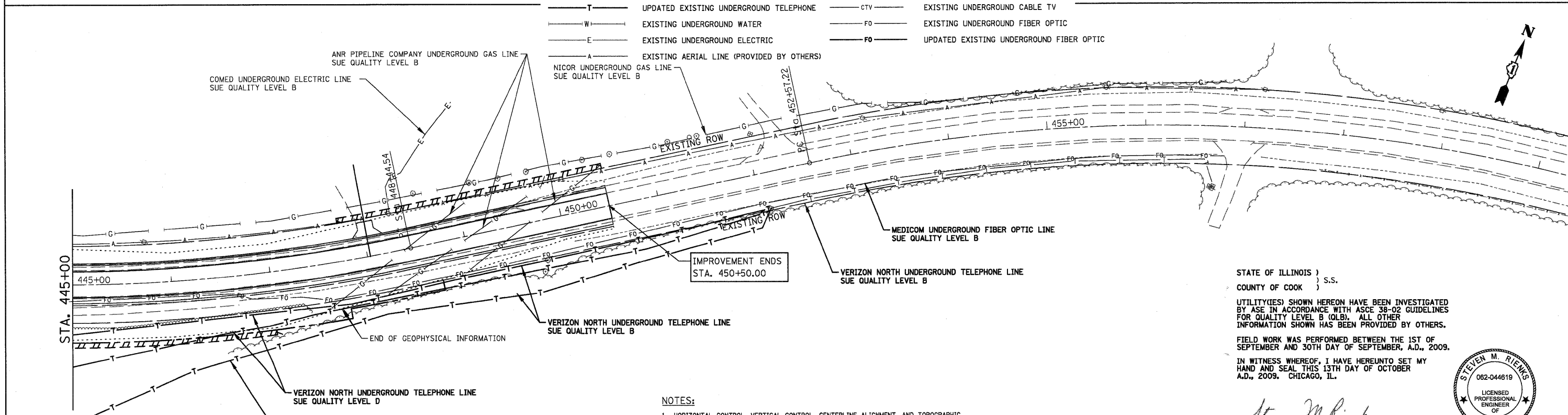
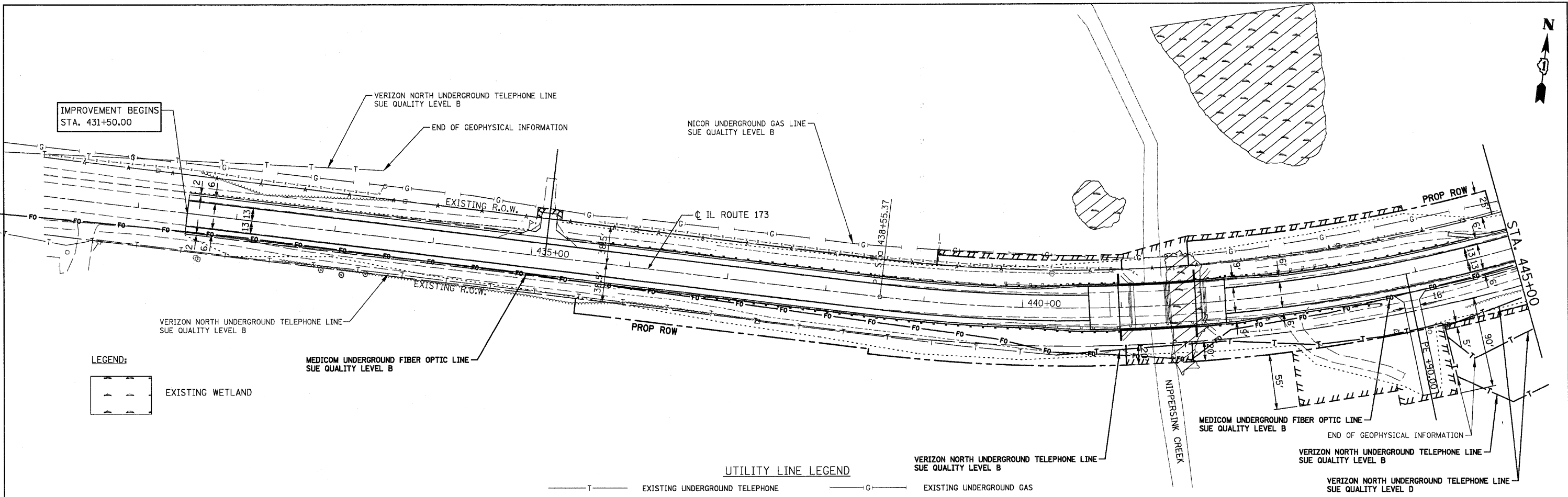
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN & PROFILE			
SCALE:	SHEET NO. 32 OF 106 SHEETS	STA. 428+74.0	TO STA. 442+50.0

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 32
CONTRACT NO. 60129				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTED	
NO.	
NOTE BOOK	
NO.	
REVISIONS	
NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
NOTED	
NO.	
NOTE BOOK	
NO.	
REVISIONS	
NO.	
STRUCTURE	
NOTATIONS	
CHKD	



AMERICAN
 SURVEYING & ENGINEERING, P.C.
 SURVEYORS - ENGINEERS
 GEODESISTS - MAPPING SCIENTISTS
 Chicago: 312-277-2000 / Fax 312-277-2002
 Dixon: 815-288-6231 / Fax 815-288-6277
 Aurora: 603-897-4105 / Fax 630-897-4121
 Illinois Professional Design Firm No. 184-003192

- NOTES:**
- HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - AS OF OCTOBER 1, 2009, ASE HAS NOT RECEIVED UTILITY MAPS FOR VERIZON NORTH. THEREFORE, THESE UTILITY LINES SHOWN ARE BASED ON FIELD EVIDENCE.
 - EXISTING AERIAL LINES PROVIDED BY OTHERS.

STATE OF ILLINOIS)
) S.S.
 COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH ASCE 38-02 GUIDELINES FOR QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST OF SEPTEMBER AND 30TH DAY OF SEPTEMBER, A.D., 2009.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 13TH DAY OF OCTOBER A.D., 2009. CHICAGO, IL.

Steven M. Rienks
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
 MY LICENSE EXPIRES 11/30/2011



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 173 OVER NIPPERSINK CREEK SUE INVESTIGATION OF UNDERGROUND UTILITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\CBBEL WEST Projects\2209\09-0147 IL173	Civil\Dgn\Shr\DI60129-shr-uti1.sue.dgn	DRAWN -	REVISED -			303	132B-2	McHENRY	106	34	
PLOT SCALE =	CHECKED -	REVISED -	REVISED -			SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 431+50.00 TO STA. 450+00.00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
PLOT DATE = 1/5/2011	DATE -	REVISED -	REVISED -			CONTRACT NO. 60129					

PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

CURVE "1"	CURVE "2"	CURVE "3"	CURVE "4"
Δ=34°35'05" L=1017.34' (1016.25') R.=1685.40' CH.=1001.97' CH. BRG.=N72°50'49"E	Δ=02°11'01" L=64.24' (64.62') R.=1685.40' CH.=64.23' CH. BRG.=N89°02'51"E	Δ=34°35'05" L=993.20' R.=1645.40' CH.=978.19' CH. BRG.=N72°50'49"E	Δ=34°35'05" L=1041.48' R.=1725.40' CH.=1025.75' CH. BRG.=N72°50'49"E

CURVE "12"	CURVE "14"
Δ=08°44'37" L=263.30' R.=1725.40' CH.=263.05' CH. BRG.=N85°46'03"E	Δ=06°27'09" L=185.30' R.=1645.40' CH.=185.20' CH. BRG.=N84°40'17"E

PARCEL NO.	OWNER	TOTAL HOLDING (ACRES)	PART TAKEN (ACRES)	REMAINDER (ACRES)	PREVIOUS DEDICATION (ACRES)	EASEMENT (ACRES)	EASEMENT PURPOSE	TAX NUMBER(S)	ACQUIRED BY
1HM0001TE	Bradley A. Spiniolas, a single person	(5.001)	N/A	(5.001)	N/A	202(0.005)	GRADING	03-18-300-020	
1HM0002 1HM0002PE	State Bank of Woodstock (or its successors) as Trustee under Trust Agreement dated September 15, 1989 known as Trust No. 4590	(22.185)	(0.211)	(21.974)	N/A	(0.017)	CONSTRUCTION & MAINTENANCE	03-18-300-011	
1HM0003-A 1HM0003-B 1HM0003PE 1HM0003TE-A 1HM0003TE-B	Mark Howland and Lisa Howland, husband and wife, in Joint Tenancy	(13.286)	(0.032) (0.157)	(13.097)	N/A	N/A (0.023) (0.054) 369(0.008)	CONSTRUCTION & MAINTENANCE GRADING	03-18-300-015 03-18-300-016	

COORDINATE SYSTEM DEFINITION:
North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
Illinois State Plane Eastern Zone estimated GROUND coordinates based upon an average location for the length of the project having the following parameters:

WGS '84 North Latitude 42°27'45.43292"
WGS '84 West Longitude 88°28'30.38310"
WGS '84 Height 872.92920 U.S. Feet
Orthometric Height 984.41005 U.S. Feet (estimated utilizing Geoid '03)

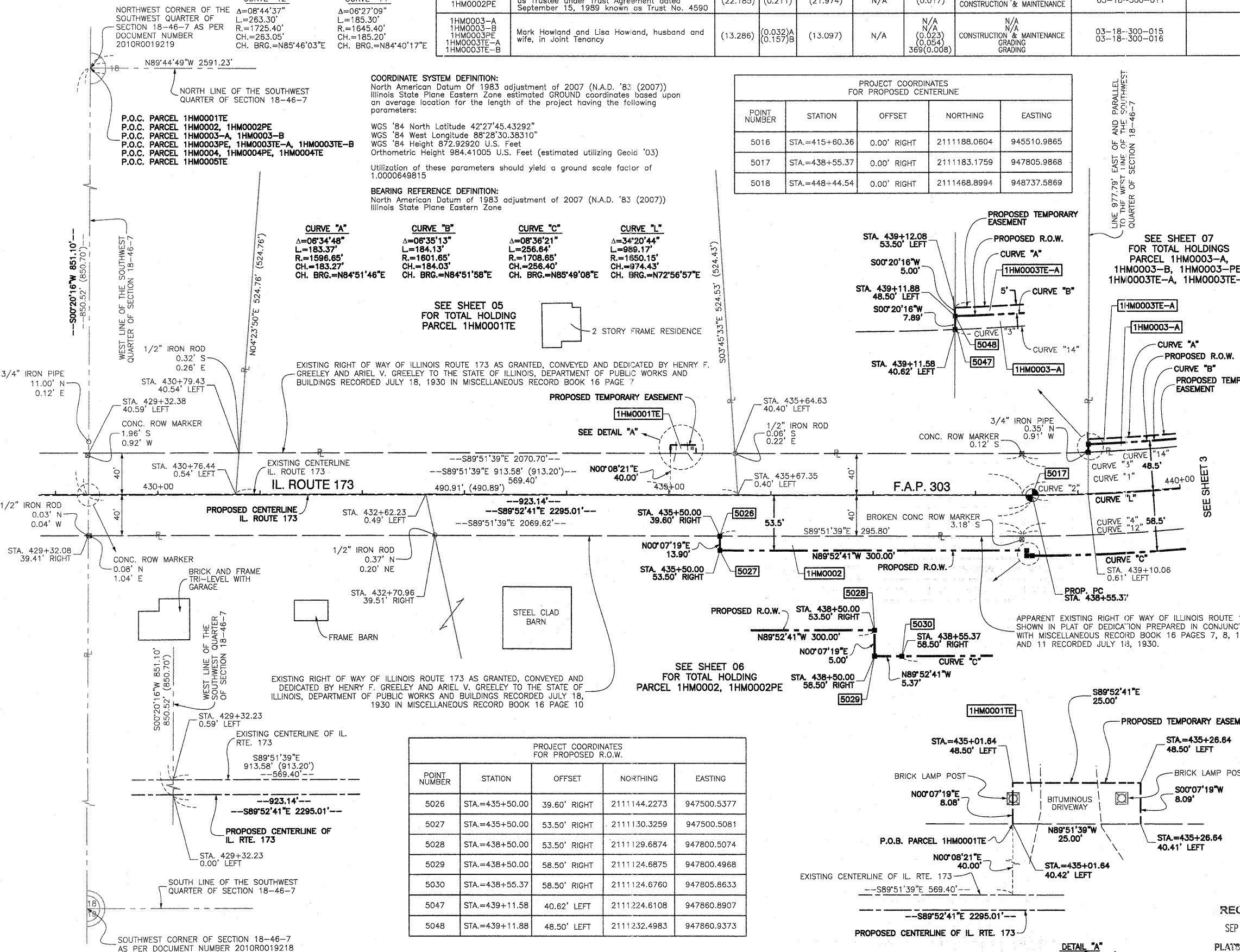
Utilization of these parameters should yield a ground scale factor of 1.0000649815

BEARING REFERENCE DEFINITION:
North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
Illinois State Plane Eastern Zone

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5016	STA.=415+60.36	0.00' RIGHT	2111188.0604	945510.9865
5017	STA.=438+55.37	0.00' RIGHT	2111183.1759	947805.9868
5018	STA.=448+44.54	0.00' RIGHT	2111468.8994	948737.5869

CURVE "A"	CURVE "B"	CURVE "C"	CURVE "L"
Δ=06°34'48" L=183.37' R.=1596.65' CH.=183.27' CH. BRG.=N84°51'46"E	Δ=06°35'13" L=184.13' R.=1601.65' CH.=184.03' CH. BRG.=N84°51'58"E	Δ=08°36'21" L=256.64' R.=1708.65' CH.=256.40' CH. BRG.=N85°49'08"E	Δ=34°20'44" L=988.17' R.=1650.15' CH.=974.43' CH. BRG.=N72°56'57"E

SEE SHEET 05 FOR TOTAL HOLDING PARCEL 1HM0001TE



POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5026	STA.=435+50.00	39.60' RIGHT	2111144.2273	947500.5377
5027	STA.=435+50.00	53.50' RIGHT	2111130.3259	947500.5081
5028	STA.=438+50.00	53.50' RIGHT	2111129.6874	947800.5074
5029	STA.=438+50.00	58.50' RIGHT	2111124.6875	947800.4968
5030	STA.=438+55.37	58.50' RIGHT	2111124.6760	947805.8633
5047	STA.=439+11.58	40.62' LEFT	2111224.6108	947860.8907
5048	STA.=439+11.88	48.50' LEFT	2111232.4983	947860.9373

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE (NOT STATIONED)
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- 3/4" IRON PIPE SET OR FOUND
- IRON PIPE OR ROD SET OR FOUND
- "MAG" NAIL SET OR FOUND
- CUT CROSS SET OR FOUND
- 5/8" REBAR SET OR FOUND
- CONCRETE R.O.W. MARKER FOUND
- "P.K." NAIL SET OR FOUND
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
COUNTY OF COOK) SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
PROJECT JOB NO.: R-91-013-10
STATION 429+00 TO STATION 441+00
SCALE: 1"=50' SHEET 35 OF 106

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

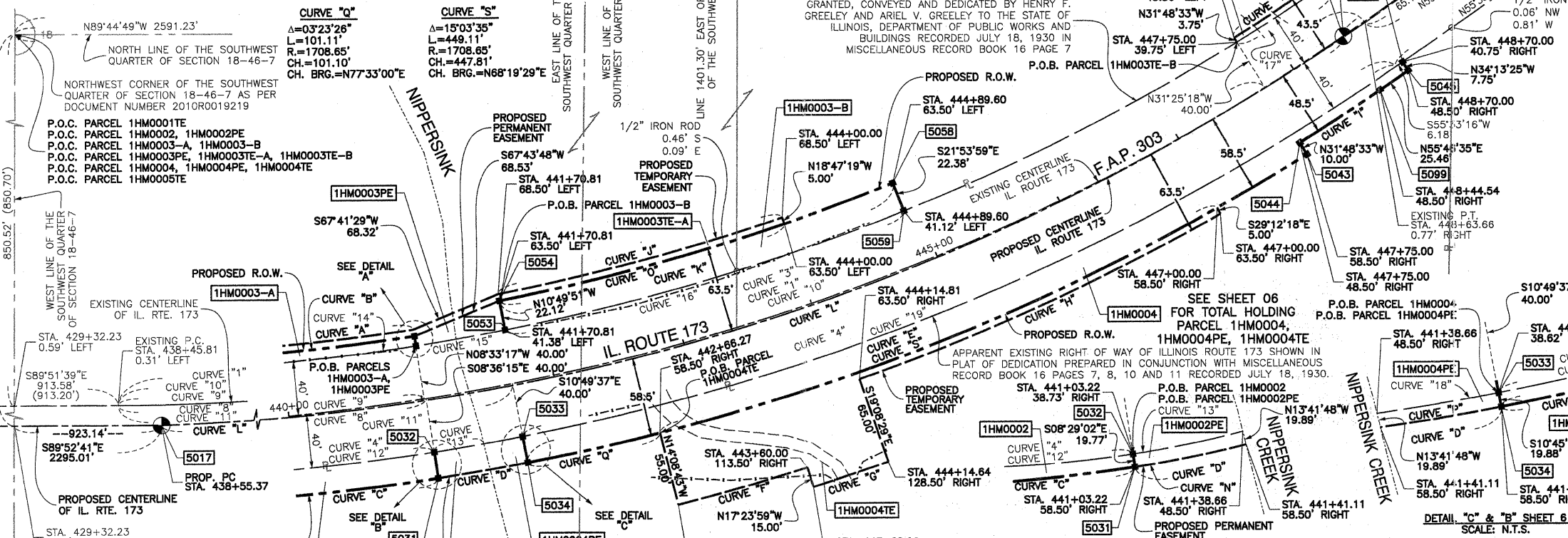
PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

PROJECT COORDINATES FOR PROPOSED CENTERLINE				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5017	STA.=438+55.37	0.00' RIGHT	2111183.1759	947805.9868
5018	STA.=448+44.54	0.00' RIGHT	2111468.8994	948737.5869
5019	STA.=452+57.22	0.00' RIGHT	2111700.9980	949078.8060

PARCEL NO.	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	PREVIOUS DEDICATION	EASEMENT	EASEMENT PURPOSE	TAX NUMBER(S)	ACQUIRED BY
		(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET			
1HM0002 1HM0002PE	State Bank of Woodstock (or its successors) as Trustee under Trust Agreement dated September 15, 1989 known as Trust No. 4590	(22.185)	(0.211)	(21.974)	N/A	(0.017)	CONSTRUCTION & MAINTENANCE	03-18-300-011	
1HM0003-A 1HM0003-B 1HM0003PE 1HM0003TE-A 1HM0003TE-B	Mark Howland and Lisa Howland, husband and wife, in Joint Tenancy	(13.286)	(0.032) (0.157)B	(13.097)	N/A	N/A (0.023) (0.054) 369(0.008)	CONSTRUCTION & MAINTENANCE GRADING	03-18-300-215 03-18-300-216	
1HM0004 1HM0004PE 1HM0004TE	Pet Rescue, Inc., an Illinois not-for-profit corporation	(44.162)	(0.297)	(43.865)	N/A	(0.013) (0.251)	CONSTRUCTION & MAINTENANCE GRADING	03-18-300-004	
1HM0005TE	Harvard State Bank as Trustee under Trust Agreement dated March 8, 2003 known as Trust No. 683	(5.370)	N/A	(5.370)	N/A	(0.016)	CONSTRUCTION & MAINTENANCE	03-18-300-017	

CURVE "A"	CURVE "B"	CURVE "C"	CURVE "D"
Δ=06°34'48" L=183.37' R=1596.65' CH.=183.27' CH. BRG.=S84°51'46"W	Δ=08°36'15" L=184.13' R=1708.65' CH.=184.03' CH. BRG.=S84°51'58"W	Δ=08°36'21" L=256.64' R=1708.65' CH.=256.40' CH. BRG.=S85°49'08"W	Δ=02°16'15" L=67.72' R=1708.65' CH.=67.71' CH. BRG.=N80°22'50"E
Δ=21°03'16" L=627.88' R=1708.65' CH.=624.35' CH. BRG.=N68°43'05"E	Δ=03°15'16" L=100.18' R=1778.65' CH.=100.16' CH. BRG.=S74°13'39"W	Δ=01°53'50" L=58.89' R=1778.65' CH.=58.89' CH. BRG.=S71°39'06"W	Δ=09°54'08" L=298.16' R=1713.65' CH.=295.80' CH. BRG.=S65°44'46"W
Δ=02°24'52" L=71.58' R=1698.65' CH.=71.58' CH. BRG.=N56°59'01"E	Δ=07°57'28" L=306.52' R=1586.65' CH.=306.05' CH. BRG.=S75°11'25"W	Δ=11°04'08" L=306.52' R=1586.65' CH.=306.05' CH. BRG.=N73°38'05"E	Δ=34°20'44" L=989.17' R=1650.15' CH.=974.43' CH. BRG.=N72°56'57"E
Δ=02°24'52" L=67.71' R=1606.65' CH.=67.70' CH. BRG.=N56°59'01"E	Δ=01°18'56" L=39.24' R=1708.65' CH.=39.23' CH. BRG.=N80°51'30"E	Δ=07°57'28" L=220.37' R=1586.65' CH.=220.19' CH. BRG.=N75°11'25"E	Δ=00°57'18" L=28.48' R=1708.65' CH.=28.48' CH. BRG.=S79°43'22"W
	Δ=03°23'26" L=101.11' R=1708.65' CH.=101.10' CH. BRG.=N77°33'00"E		Δ=15°03'35" L=449.11' R=1708.65' CH.=447.81' CH. BRG.=N68°19'29"E

CURVE "1"	CURVE "2"	CURVE "3"	CURVE "4"	CURVE "5"	CURVE "6"
Δ=34°35'05" L=1017.34' R=1685.40' CH.=1001.97' CH. BRG.=N72°50'49"E	Δ=02°11'01" L=64.24' R=1685.40' CH.=64.23' CH. BRG.=N89°02'51"E	Δ=34°35'05" L=993.20' R=1645.40' CH.=978.19' CH. BRG.=N72°50'49"E	Δ=34°35'05" L=1041.48' R=1725.40' CH.=1025.75' CH. BRG.=N72°50'49"E	Δ=08°44'37" L=255.74' R=1685.40' CH.=255.50' CH. BRG.=N85°46'03"E	Δ=08°44'37" L=322.58' R=1685.40' CH.=322.09' CH. BRG.=N84°39'22"E
	Δ=01°14'35" L=37.43' R=1725.40' CH.=37.43' CH. BRG.=S80°46'27"W				
	Δ=01°14'35" L=185.30' R=1645.40' CH.=185.20' CH. BRG.=N84°40'17"E				



PROJECT COORDINATES FOR PROPOSED R.O.W.				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5046	STA.=448+70.00	40.75' RIGHT	2111449.5264	948781.5549
5051	STA.=441+01.59	48.50' LEFT	2111248.9659	948044.2292
5052	STA.=441+01.59	41.27' LEFT	2111241.8097	948045.2894
5053	STA.=441+70.81	41.38' LEFT	2111253.2142	948111.8004
5054	STA.=441+70.81	63.50' LEFT	2111274.9359	948107.6447
5058	STA.=444+89.60	63.50' LEFT	2111361.1670	948401.2915
5059	STA.=444+89.60	41.12' LEFT	2111340.3992	948409.6399
5099	STA.=448+44.54	48.50' RIGHT	2111428.7967	948764.8637

PROJECT COORDINATES FOR PROPOSED R.O.W.				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5031	STA.=441+03.22	58.50' RIGHT	2111143.3694	948061.5800
5032	STA.=441+03.22	38.73' RIGHT	2111162.9221	948058.6634
5033	STA.=441+68.62	38.62' RIGHT	2111174.2168	948124.6320
5034	STA.=441+68.62	58.50' RIGHT	2111154.6845	948128.3420
5043	STA.=447+75.00	58.50' RIGHT	2111381.2970	948710.1151
5044	STA.=447+75.00	48.50' RIGHT	2111389.7951	948704.8442
5045	STA.=448+70.00	48.50' RIGHT	2111443.1145	948785.9130

PROJECT COORDINATES FOR PROPOSED R.O.W.				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5031	STA.=441+03.22	58.50' RIGHT	2111143.3694	948061.5800
5032	STA.=441+03.22	38.73' RIGHT	2111162.9221	948058.6634
5033	STA.=441+68.62	38.62' RIGHT	2111174.2168	948124.6320
5034	STA.=441+68.62	58.50' RIGHT	2111154.6845	948128.3420
5043	STA.=447+75.00	58.50' RIGHT	2111381.2970	948710.1151
5044	STA.=447+75.00	48.50' RIGHT	2111389.7951	948704.8442
5045	STA.=448+70.00	48.50' RIGHT	2111443.1145	948785.9130

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE (NOT STATIONED)
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- 3/4" IRON PIPE SET OR FOUND
- IRON PIPE OR ROD SET OR FOUND
- "MAG" NAIL SET OR FOUND
- CUT CROSS SET OR FOUND
- 5/8" REBAR SET OR FOUND
- CONCRETE R.O.W. MARKER FOUND
- "P.K." NAIL SET OR FOUND
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY T3 COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
COUNTY OF COOK) SS

THIS IS TO CERTIFY THAT I, RANDALL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randall E. Gann
ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

RECEIVED
SEP 0 9 2010
PLATS & LEGALS

Robinson ENGINEERING
1700 SOUTH PARK AVENUE
SOUTH HOLLAND, IL 60473
(708) 331-6700

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
PROJECT STATION 440+00 TO STATION 450+00
SCALE: 1"=50' SHEET 36 OF 106

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

PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

PROJECT COORDINATES FOR PROPOSED CENTERLINE				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5017	STA.=438+55.37	0.00' RIGHT	2111183.1759	947805.9868
5018	STA.=448+44.54	0.00' RIGHT	2111468.8994	948737.5869
5019	STA.=452+57.22	0.00' RIGHT	2111700.9980	949078.8060
5020	STA.=462+62.47	0.00' RIGHT	2111995.7105	950024.6630

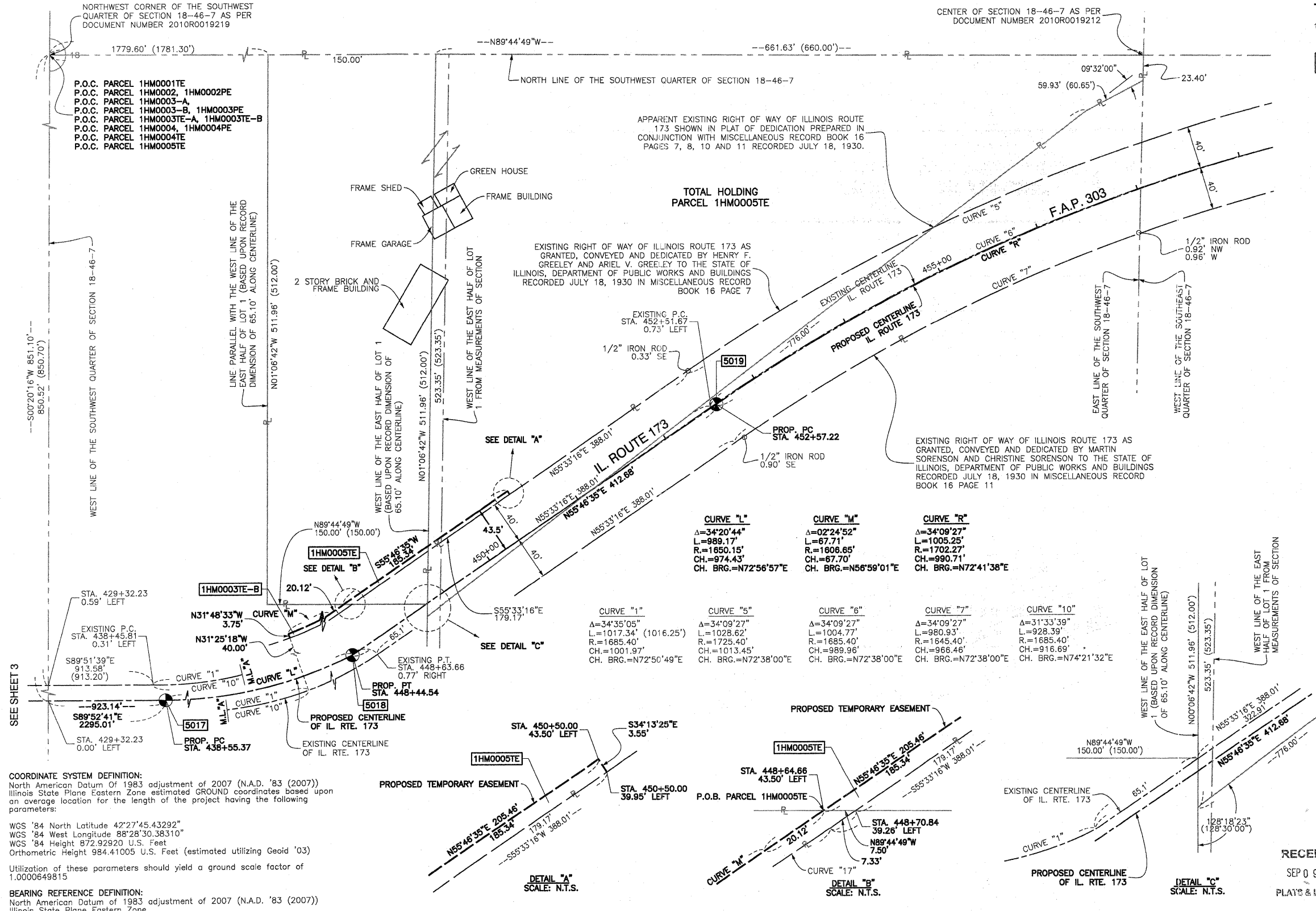
PARCEL NO.	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	PREVIOUS DEDICATION	EASEMENT	EASEMENT PURPOSE	TAX NUMBER(S)	ACQUIRED BY
		(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET	(ACRES) SQ. FEET			
1HM0003-A 1HM0003-B 1HM0003PE 1HM0003TE-A 1HM0003TE-B	Mark Howland and Lisa Howland, husband and wife, in Joint Tenancy	(13.286)	(0.032)A (0.157)B	(13.097)	N/A	N/A N/A (0.023) (0.054) 369(0.008)	CONSTRUCTION & MAINTENANCE GRADING	03-18-300-015 03-18-300-016	
1HM0005TE	Harvard State Bank as Trustee under Trust Agreement dated March 8, 2003 known as Trust No. 683	(5.370)	N/A	(5.370)	N/A	(0.016)	CONSTRUCTION & MAINTENANCE	03-18-300-017	

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- EXISTING CENTERLINE (NOT STATIONED)
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- 3/4" IRON PIPE SET OR FOUND
- IRON PIPE OR ROD SET OR FOUND
- CUT CROSS SET OR FOUND
- CONCRETE R.O.W. MARKER FOUND
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

SCALE: 1"=50'

DATE	BY



STATE OF ILLINOIS }
COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 303 (ILLINOIS ROUTE 173)

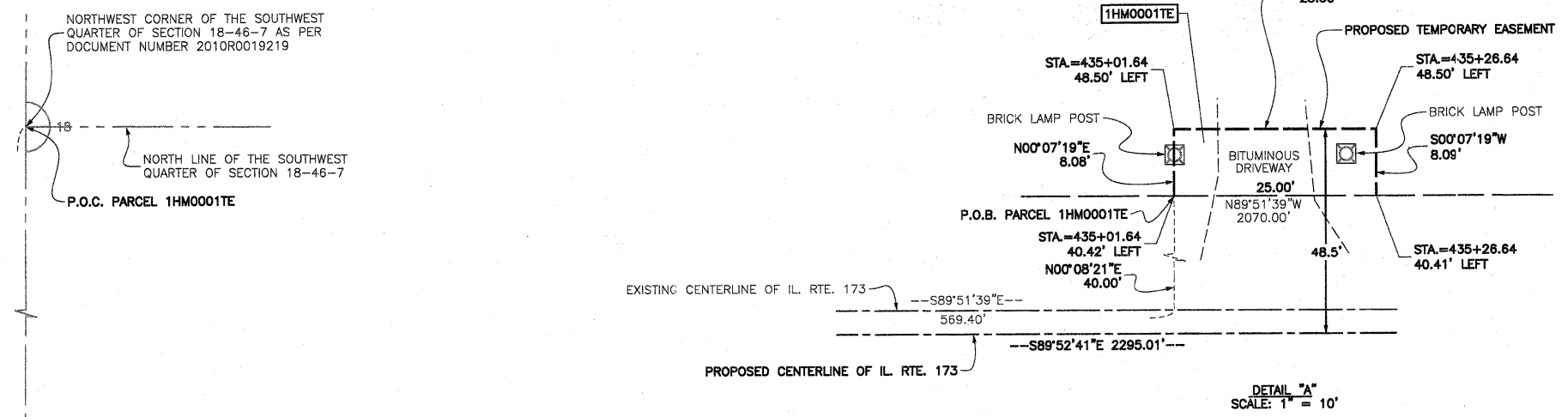
LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
PROJECT JOB NO.: R-91-013-10
STATION 450+00 TO STATION 458+00
SCALE: 1"=50' SHEET 37 OF 106

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

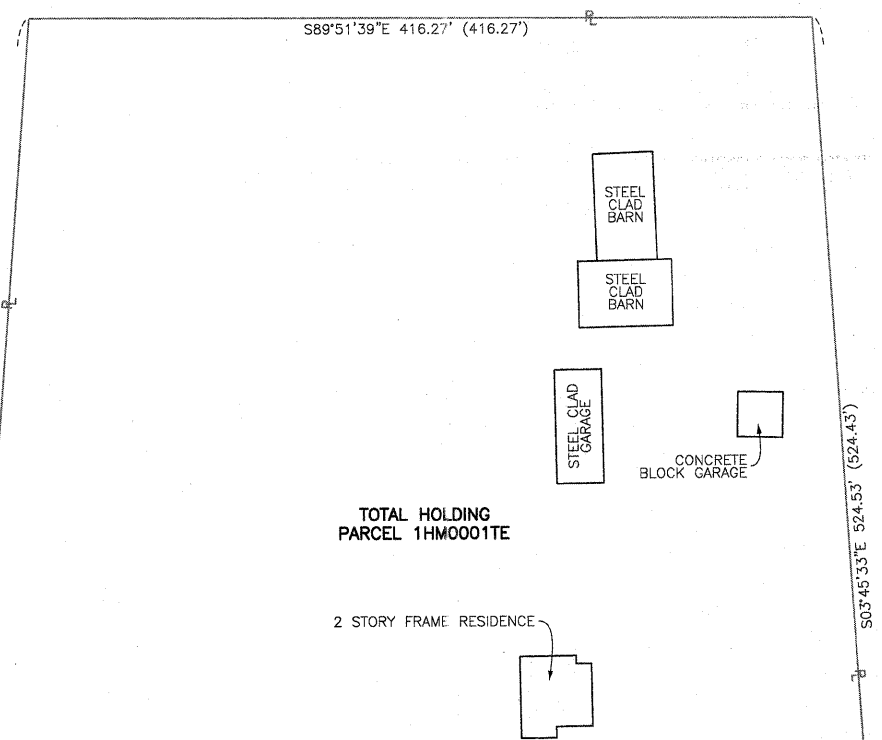
PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

LEGEND

	SECTION CORNER		QUARTER SECTION CORNER
	SECTION LINE		QUARTER SECTION LINE
	QUARTER, QUARTER SECTION LINE		PLATTED LOT LINE
	PROPERTY (DEED) LINE		APPARENT PROPERTY LINE
	EXISTING CENTERLINE (NOT STATIONED)		PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE		PROPOSED RIGHT OF WAY LINE
	PROPOSED EASEMENT		MEASURED DIMENSION
	COMPUTED DIMENSION		RECORD DATA
	EXISTING BUILDING		3/4" IRON PIPE SET OR FOUND
	IRON PIPE OR ROD SET OR FOUND		"MAG" NAIL SET OR FOUND
	CUT CROSS SET OR FOUND		5/8" REBAR SET OR FOUND
	CONCRETE R.O.W. MARKER FOUND		"P.K." NAIL SET OR FOUND
	T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.		BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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	PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)		RIGHT OF WAY STAKING PROPOSED TO BE SET.

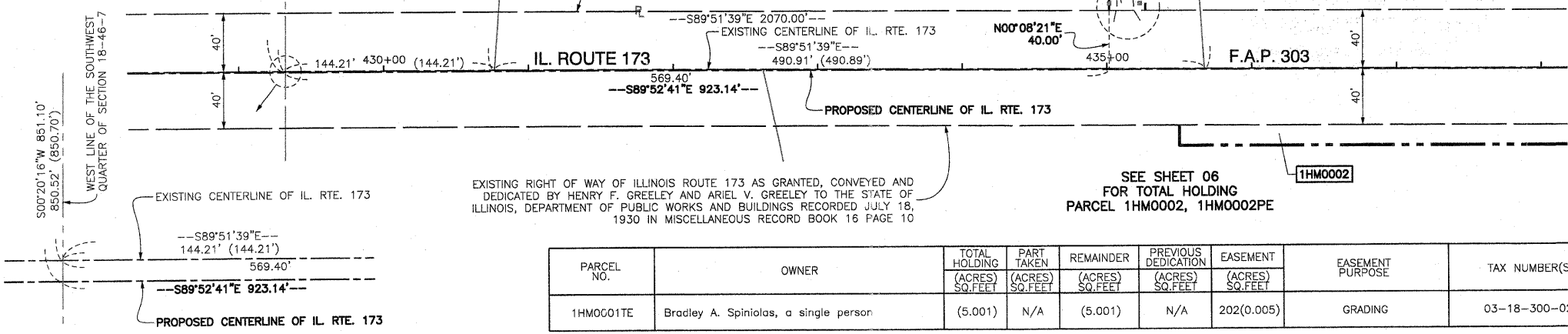


DATE	
BY	
R.O.W. PLAT	
NOTEBOOK NO.	



COORDINATE SYSTEM DEFINITION:
 North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
 Illinois State Plane Eastern Zone estimated GROUND coordinates based upon an average location for the length of the project having the following parameters:
 WGS '84 North Latitude 42°27'45.43292"
 WGS '84 West Longitude 88°28'30.38310"
 WGS '84 Height 872.92920 U.S. Feet
 Orthometric Height 984.41005 U.S. Feet (estimated utilizing Geoid '03)
 Utilization of these parameters should yield a ground scale factor of 1.0000649815

BEARING REFERENCE DEFINITION:
 North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
 Illinois State Plane Eastern Zone



PARCEL NO.	OWNER	TOTAL HOLDING (ACRES) SQ.FEET	PART TAKEN (ACRES) SQ.FEET	REMAINDER (ACRES) SQ.FEET	PREVIOUS DEDICATION (ACRES) SQ.FEET	EASEMENT (ACRES) SQ.FEET	EASEMENT PURPOSE	TAX NUMBER(S)	ACQUIRED BY
1HM0001TE	Bradley A. Spiniolas, a single person	(5.001)	N/A	(5.001)	N/A	202(0.005)	GRADING	03-18-300-020	

RECEIVED
 SEP 0 9 2010
 PLAT'S & LEGALS

STATE OF ILLINOIS }
 COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
 ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
 EXPIRATION DATE: NOVEMBER 30, 2010

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PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
 PROJECT STATION 430+76 TO STATION 435+68
 SCALE: 1"=50' SHEET 38 OF 106

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

PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

CURVE "C"
 $\Delta=08^{\circ}36'21''$
 $L=256.64'$
 $R=1708.65'$
 $CH=256.40'$
 $CH. BRG.=S85^{\circ}49'08''W$

CURVE "D"
 $\Delta=02^{\circ}16'15''$
 $L=67.72'$
 $R=1708.65'$
 $CH=67.71'$
 $CH. BRG.=N80^{\circ}22'50''E$

CURVE "E"
 $\Delta=21^{\circ}03'16''$
 $L=627.88'$
 $R=1708.65'$
 $CH=624.35'$
 $CH. BRG.=S68^{\circ}43'05''W$

CURVE "F"
 $\Delta=03^{\circ}15'16''$
 $L=100.18'$
 $R=1778.65'$
 $CH=100.16'$
 $CH. BRG.=S74^{\circ}13'39''W$

CURVE "G"
 $\Delta=01^{\circ}53'50''$
 $L=58.89'$
 $R=1778.65'$
 $CH=58.89'$
 $CH. BRG.=S71^{\circ}39'06''W$

CURVE "H"
 $\Delta=09^{\circ}54'08''$
 $L=296.16'$
 $R=1713.65'$
 $CH=295.80'$
 $CH. BRG.=S65^{\circ}44'46''W$

CURVE "I"
 $\Delta=02^{\circ}24'52''$
 $L=71.58'$
 $R=1698.65'$
 $CH=71.58'$
 $CH. BRG.=N56^{\circ}59'01''E$

CURVE "N"
 $\Delta=01^{\circ}18'56''$
 $L=39.24'$
 $R=1708.65'$
 $CH=39.23'$
 $CH. BRG.=N80^{\circ}51'30''W$

CURVE "P"
 $\Delta=00^{\circ}57'18''$
 $L=28.48'$
 $R=1708.65'$
 $CH=28.48'$
 $CH. BRG.=S79^{\circ}43'22''W$

CURVE "Q"
 $\Delta=03^{\circ}23'26''$
 $L=101.11'$
 $R=1708.65'$
 $CH=101.10'$
 $CH. BRG.=N77^{\circ}33'00''E$

CURVE "S"
 $\Delta=15^{\circ}03'35''$
 $L=449.11'$
 $R=1708.65'$
 $CH=447.81'$
 $CH. BRG.=N68^{\circ}19'29''E$

CURVE "1"
 $\Delta=34^{\circ}35'05''$
 $L=1017.34'$ (1016.25')
 $R=1685.40'$
 $CH=1001.97'$
 $CH. BRG.=N72^{\circ}50'49''E$

CURVE "4"
 $\Delta=34^{\circ}35'05''$
 $L=1041.48'$
 $R=1725.40'$
 $CH=1025.75'$
 $CH. BRG.=N72^{\circ}50'49''E$

CURVE "8"
 $\Delta=08^{\circ}44'37''$
 $L=257.20'$
 $R=1685.40'$
 $CH=256.95'$
 $CH. BRG.=N85^{\circ}46'03''E$

CURVE "11"
 $\Delta=10^{\circ}57'58''$
 $L=322.58'$
 $R=1685.40'$
 $CH=322.09'$
 $CH. BRG.=N84^{\circ}39'22''E$

CURVE "12"
 $\Delta=08^{\circ}44'37''$
 $L=263.30'$
 $R=1725.40'$
 $CH=263.05'$
 $CH. BRG.=N85^{\circ}46'03''E$

CURVE "13"
 $\Delta=01^{\circ}14'35''$
 $L=37.43'$
 $R=1725.40'$
 $CH=37.43'$
 $CH. BRG.=S80^{\circ}46'27''W$

CURVE "18"
 $\Delta=00^{\circ}58'47''$
 $L=29.50'$
 $R=1725.40'$
 $CH=29.50'$
 $CH. BRG.=N79^{\circ}39'47''E$

CURVE "19"
 $\Delta=23^{\circ}37'07''$
 $L=711.25'$
 $R=1725.40'$
 $CH=706.23'$
 $CH. BRG.=S67^{\circ}21'50''W$

COORDINATE SYSTEM DEFINITION:
 North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
 Illinois State Plane Eastern Zone estimated GROUND coordinates based upon an average location for the length of the project having the following parameters:

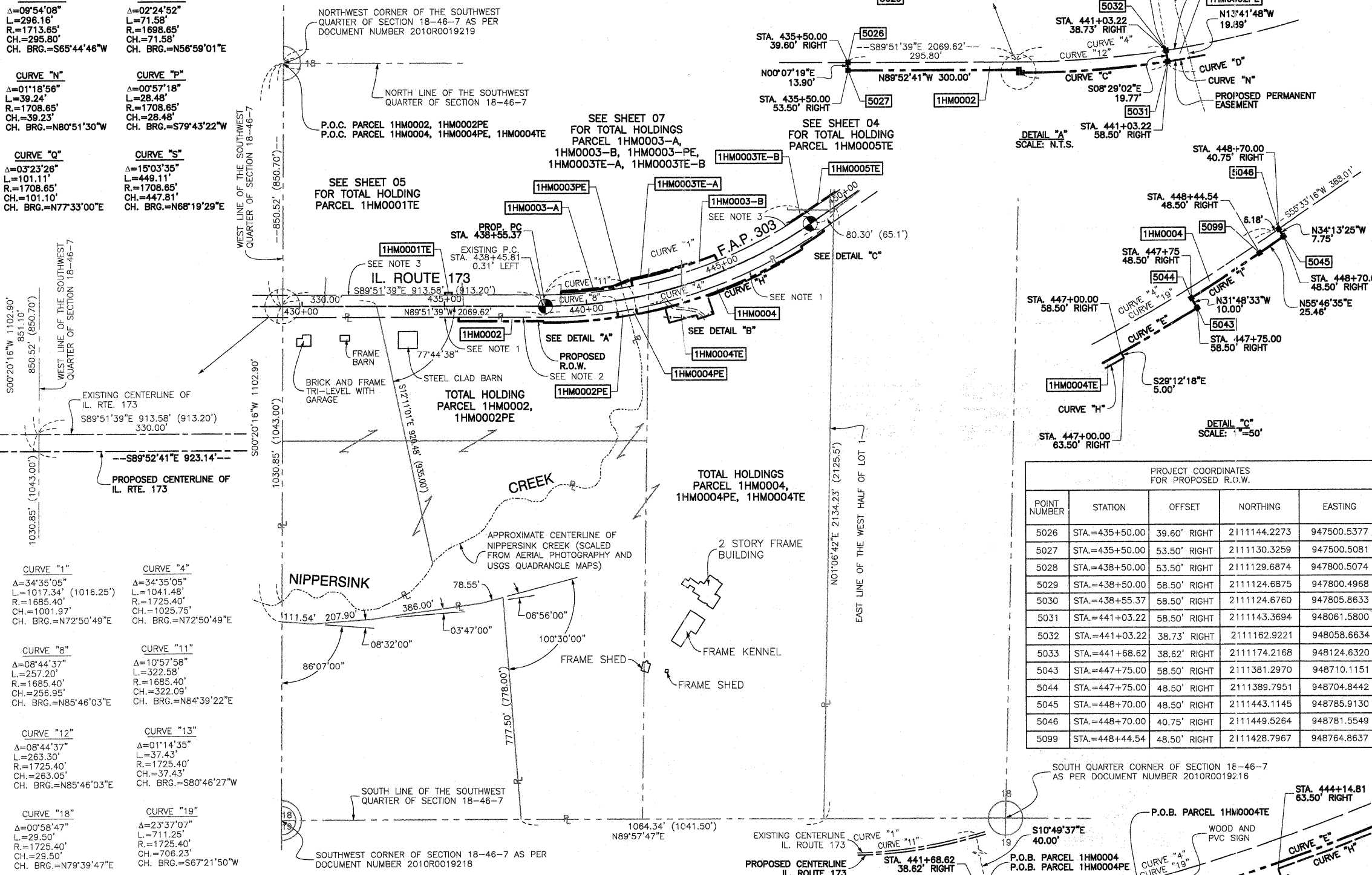
WGS '84 North Latitude 42°27'45.43292"
 WGS '84 West Longitude 88°28'30.38310"
 WGS '84 Height 872.92920 U.S. Feet
 Orthometric Height 984.41005 U.S. Feet (estimated utilizing Geoid '03)

Utilization of these parameters should yield a ground scale factor of 1.0000649815

BEARING REFERENCE DEFINITION:
 North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007))
 Illinois State Plane Eastern Zone

- NOTES**
- EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 10
 - APPARENT EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 SHOWN IN PLAT OF DEDICATION PREPARED IN CONJUNCTION WITH MISCELLANEOUS RECORD BOOK 16 PAGES 7, 8, 10 AND 11 RECORDED JULY 18, 1930.
 - EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

DATE	
BY	
R.O.W. PLAT	
NOTEBOOK NO.	



PROJECT COORDINATES FOR PROPOSED R.O.W.

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5026	STA.=435+50.00	39.60' RIGHT	2111144.2273	947500.5377
5027	STA.=435+50.00	53.50' RIGHT	2111130.3259	947500.5081
5028	STA.=438+50.00	53.50' RIGHT	2111129.6874	947800.5074
5029	STA.=438+50.00	58.50' RIGHT	2111124.6875	947800.4968
5030	STA.=438+55.37	58.50' RIGHT	2111124.6760	947805.8633
5031	STA.=441+03.22	58.50' RIGHT	2111143.3694	948061.5800
5032	STA.=441+03.22	38.73' RIGHT	2111162.9221	948058.6634
5033	STA.=441+68.62	38.62' RIGHT	2111174.2168	948124.6320
5043	STA.=447+75.00	58.50' RIGHT	2111381.2970	948710.1151
5044	STA.=447+75.00	48.50' RIGHT	2111389.7951	948704.8442
5045	STA.=448+70.00	48.50' RIGHT	2111443.1145	948785.9130
5046	STA.=448+70.00	40.75' RIGHT	2111449.5264	948781.5549
5099	STA.=448+44.54	48.50' RIGHT	2111428.7967	948764.8637

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE (NOT STATIONED)
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- 3/4" IRON PIPE SET OR FOUND
- IRON PIPE OR ROD SET OR FOUND
- CUT CROSS SET OR FOUND
- CONCRETE R.O.W. MARKER FOUND
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
 ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
 EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
 PROJECT: STATION 432+62 TO STATION 449+44
 SCALE: 1"=200' SHEET 39 OF 106

RECEIVED
 SEP 9 2010
 PLATS & LEGALS

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

PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SECTION 18-46-7 AS PER DOCUMENT NUMBER 2010R0019219

P.O.C. PARCEL 1HM0003-A
 P.O.C. PARCEL 1HM0003-B
 P.O.C. PARCEL 1HM0003PE
 P.O.C. PARCEL 1HM0003TE-A
 P.O.C. PARCEL 1HM0003TE-B

PROJECT COORDINATES FOR PROPOSED R.O.W.				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
5047	STA.=439+11.58	40.62' LEFT	2111224.6108	947860.8907
5048	STA.=439+11.88	48.50' LEFT	2111232.4983	947860.9373
5051	STA.=441+01.59	48.50' LEFT	2111248.9659	948044.2292
5052	STA.=441+01.59	41.27' LEFT	2111241.8097	948045.2894
5053	STA.=441+70.81	41.38' LEFT	2111253.2142	948111.8004
5054	STA.=441+70.81	63.50' LEFT	2111274.9359	948107.6447
5058	STA.=444+89.60	63.50' LEFT	2111361.1670	948401.2915
5059	STA.=444+89.60	41.12' LEFT	2111340.3992	948409.6399

LEGEND

SECTION CORNER QUARTER SECTION CORNER

SECTION LINE

QUARTER SECTION LINE

PLATTED LOT LINE

PROPERTY (DEED) LINE

APPARENT PROPERTY LINE

EXISTING CENTERLINE (NOT STATIONED)

PROPOSED CENTERLINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT

MEASURED DIMENSION

COMPUTED DIMENSION

RECORD DATA

EXISTING BUILDING

3/4" IRON PIPE SET OR FOUND

IRON PIPE OR ROD SET OR FOUND

CUT CROSS SET OR FOUND

CONCRETE R.O.W. MARKER FOUND

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

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

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

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

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

RIGHT OF WAY STAKING PROPOSED TO BE SET.

SCALE: 1"=60'

120.32'
129.32'(Comp.)

SCALE: N.T.S.

CURVE "1"
Δ=34°35'05"
L=1017.34' (1016.25')
R=1685.40'
CH.=1001.97'
CH. BRG.=N72°50'49"E

CURVE "2"
Δ=34°35'05"
L=993.20'
R=1645.40'
CH.=978.19'
CH. BRG.=N72°50'49"E

CURVE "3"
Δ=08°41'33"
L=255.74'
R=1685.40'
CH.=255.50'
CH. BRG.=N85°47'32"E

CURVE "4"
Δ=06°27'09"
L=185.30'
R=1645.40'
CH.=185.20'
CH. BRG.=N84°40'17"E

CURVE "5"
Δ=03°01'26"
L=86.84'
R=1645.40'
CH.=86.83'
CH. BRG.=S57°03'59"W

CURVE "6"
Δ=02°24'52"
L=67.71'
R=1606.65'
CH.=67.70'
CH. BRG.=N56°59'01"E

CURVE "7"
Δ=07°57'28"
L=220.37'
R=1586.65'
CH.=220.19'
CH. BRG.=N75°11'25"E

CURVE "8"
Δ=07°57'28"
L=989.17'
R=1586.65'
CH.=220.19'
CH. BRG.=N75°11'25"E

CURVE "9"
Δ=06°34'48"
L=183.37'
R=1596.65'
CH.=183.27'
CH. BRG.=N84°51'46"E

CURVE "10"
Δ=31°33'39"
L=928.39'
R=1685.40'
CH.=916.69'
CH. BRG.=N74°21'32"E

CURVE "11"
Δ=02°21'00"
L=67.49'
R=1645.40'
CH.=67.48'
CH. BRG.=S80°16'13"W

CURVE "12"
Δ=03°01'26"
L=86.84'
R=1645.40'
CH.=86.83'
CH. BRG.=S57°03'59"W

CURVE "13"
Δ=07°57'28"
L=220.37'
R=1586.65'
CH.=220.19'
CH. BRG.=N75°11'25"E

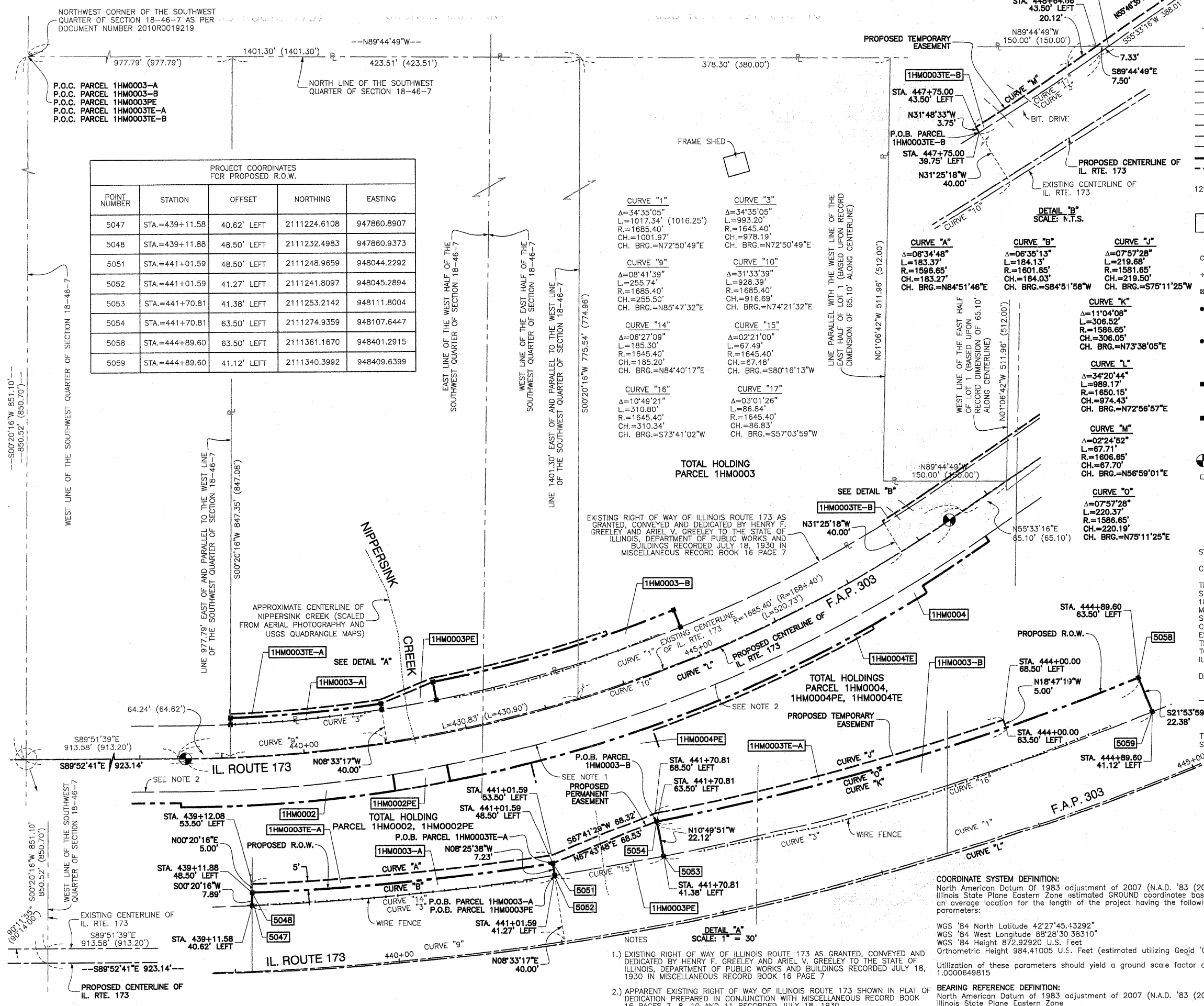
CURVE "14"
Δ=34°20'44"
L=989.17'
R=1685.40'
CH.=974.43'
CH. BRG.=N72°56'57"E

CURVE "15"
Δ=11°04'08"
L=306.52'
R=1586.65'
CH.=306.05'
CH. BRG.=N73°38'05"E

CURVE "16"
Δ=06°35'13"
L=184.13'
R=1601.65'
CH.=184.03'
CH. BRG.=S84°51'58"W

CURVE "17"
Δ=07°57'28"
L=220.37'
R=1586.65'
CH.=220.19'
CH. BRG.=N75°11'25"E

DATE	
BY	
R.O.W. PLAT	
NOTEBOOK NO.	



TOTAL HOLDING PARCEL 1HM0003

EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

TOTAL HOLDINGS PARCEL 1HM0004, 1HM0004PE, 1HM0004TE

EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

TOTAL HOLDING PARCEL 1HM0002

EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

TOTAL HOLDING PARCEL 1HM0003PE

EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

NOTES

1.) EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 AS GRANTED, CONVEYED AND DEDICATED BY HENRY F. GREELEY AND ARIEL V. GREELEY TO THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS RECORDED JULY 18, 1930 IN MISCELLANEOUS RECORD BOOK 16 PAGE 7

2.) APPARENT EXISTING RIGHT OF WAY OF ILLINOIS ROUTE 173 SHOWN IN PLAT OF DEDICATION PREPARED IN CONJUNCTION WITH MISCELLANEOUS RECORD BOOK 16 PAGES 7, 8, 10 AND 11 RECORDED JULY 18, 1930.

STATE OF ILLINOIS }
 COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
 ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
 EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

RECEIVED
 SEP 09 2010
 PLAT & LEGALS

Robinson ENGINEERING
 17000 SOUTH PARK AVENUE
 SOUTH HOLLAND, IL 60473
 (708) 331-6700

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
 PROJECT JOB NO.: R-91-013-10
 STATION 439+10 TO STATION 448+71
 SCALE: 1"=60' SHEET 40 OF 106

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

PART OF SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN McHENRY COUNTY, ILLINOIS

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

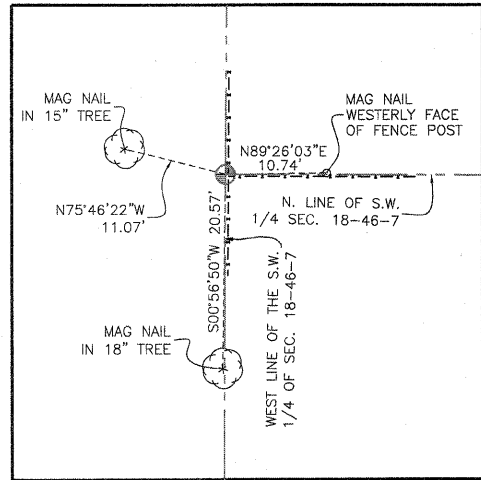
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE (NOT STATIONED)
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DATA

EXISTING BUILDING

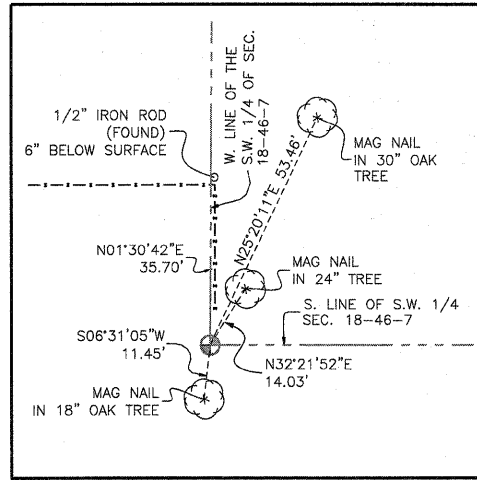
3/4" IRON PIPE SET OR FOUND
IRON PIPE OR ROD SET OR FOUND
CUT CROSS SET OR FOUND
CONCRETE R.O.W. MARKER FOUND
"MAG" NAIL SET OR FOUND
5/8" REBAR SET OR FOUND
"P.K." NAIL SET OR FOUND

T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET.

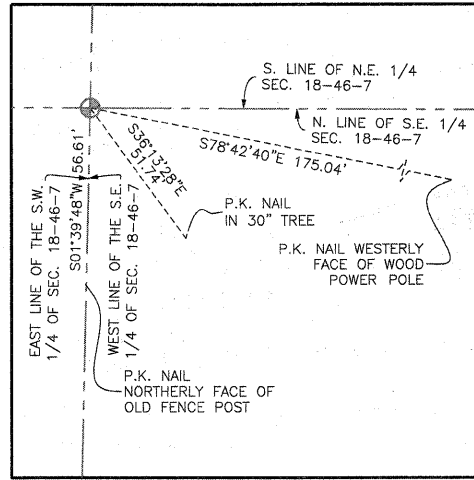
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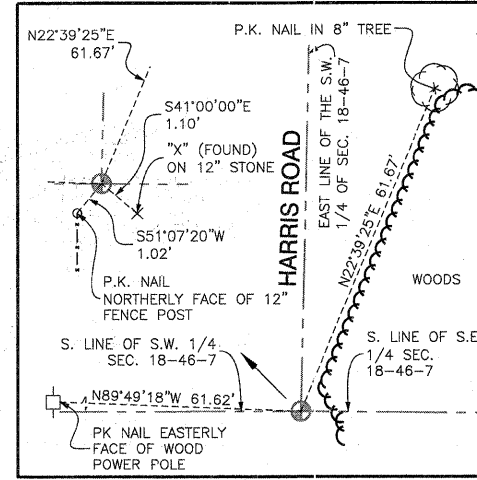
WEST QUARTER CORNER OF SECTION 18-46-7
RECORDED 05/03/10 AS DOC. NO. 2010R0019219
NORTHING: 2112036.2296 EASTING: 946887.8691



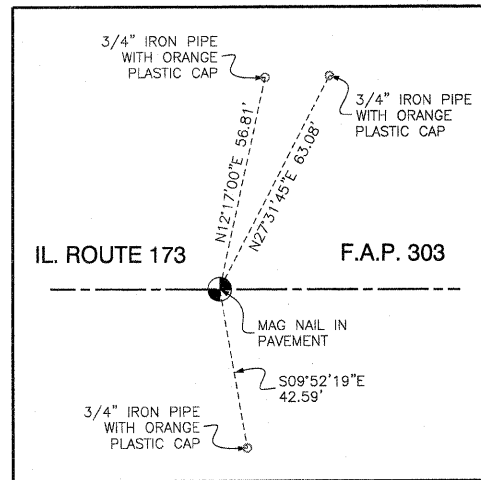
SOUTHWEST QUARTER OF SECTION 18-46-7
RECORDED 05/03/10 AS DOC. NO. 2010R0019218
NORTHING: 2109389.3755 EASTING: 946872.2631



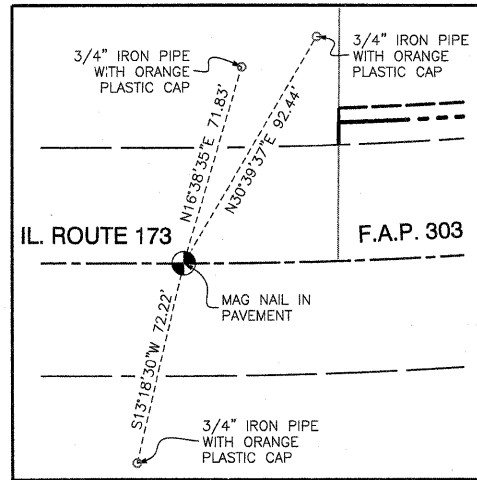
CENTER OF SECTION 18-46-7
RECORDED 05/03/10 AS DOC. NO. 2010R0019212
NORTHING: 2112024.7808 EASTING: 949479.0755



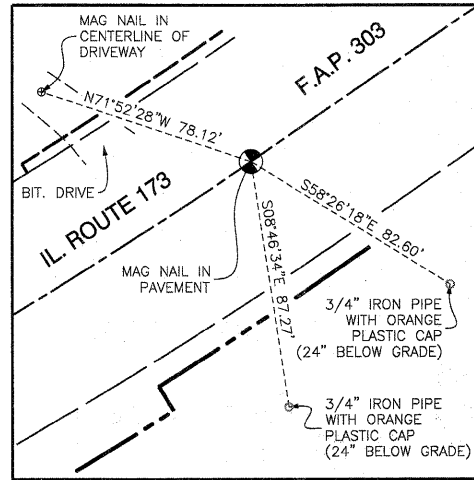
SOUTH QUARTER CORNER OF SECTION 18-46-7
RECORDED 05/03/10 AS DOC. NO. 2010R0019216
NORTHING: 2109391.0204 EASTING: 949416.8737



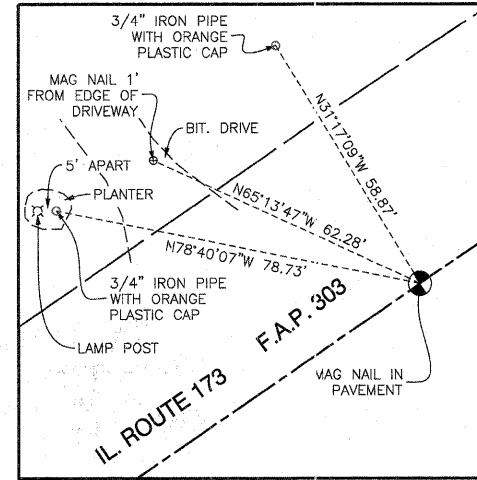
POINT NUMBER 5016
STATION: 415+60.36 OFFSET: 0.00' RIGHT
NORTHING: 2111188.0604 EASTING: 945510.9865



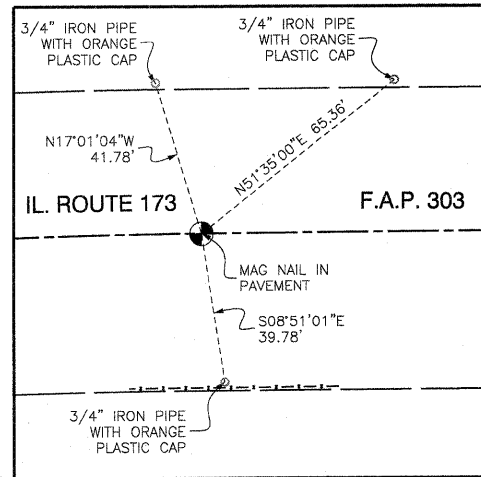
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NORTHING: 2111183.1759 EASTING: 947805.9868



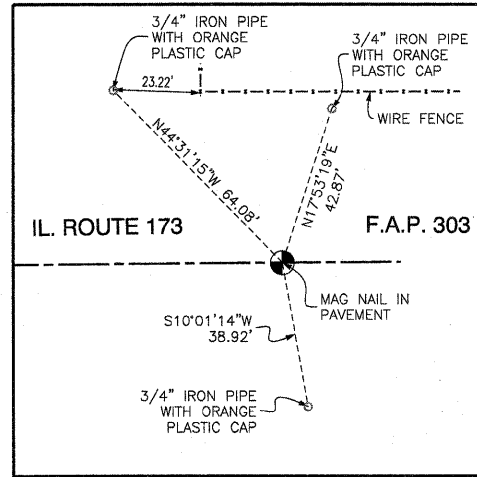
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NORTHING: 2111468.8994 EASTING: 948737.5869



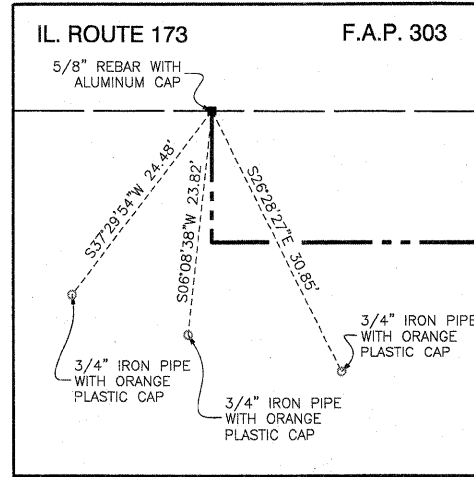
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NORTHING: 2111700.9980 EASTING: 949078.8060



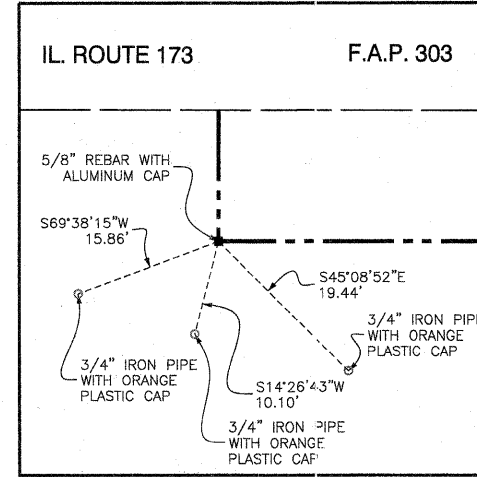
POINT NUMBER 5020
STATION: 462+62.47 OFFSET: 0.00' RIGHT
NORTHING: 2111995.7105 EASTING: 950024.6630



POINT NUMBER 5021
STATION: 474+47.97 OFFSET: 0.00' RIGHT
NORTHING: 2112003.7500 EASTING: 951210.1386



POINT NUMBER 5026
STATION: 435+50.00 OFFSET: 39.60' RIGHT
NORTHING: 2111144.2273 EASTING: 947500.5377



POINT NUMBER 5027
STATION: 435+50.00 OFFSET: 53.50' RIGHT
NORTHING: 2111130.3259 EASTING: 947500.5081

DATE	BY	R.O.W. PLAT	NOTEBOOK NO.

STATE OF ILLINOIS }
COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. CANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Cann
ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



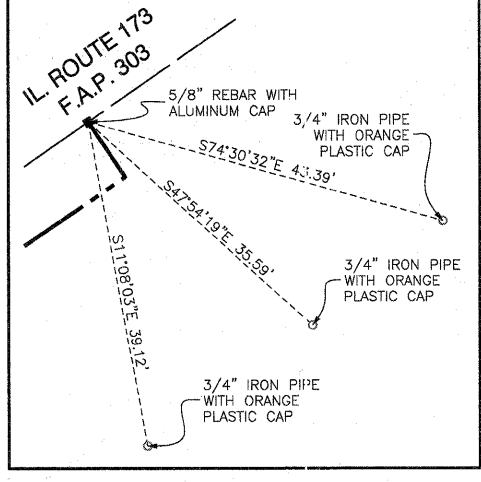
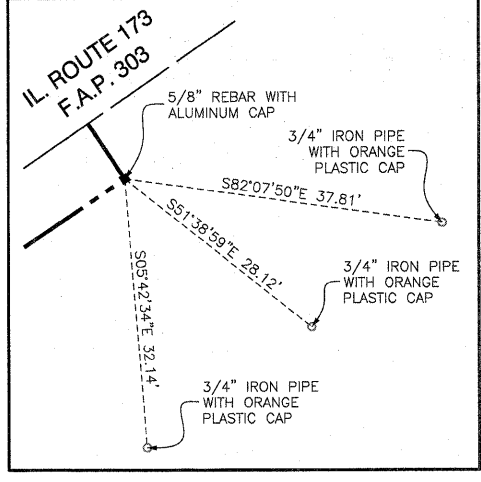
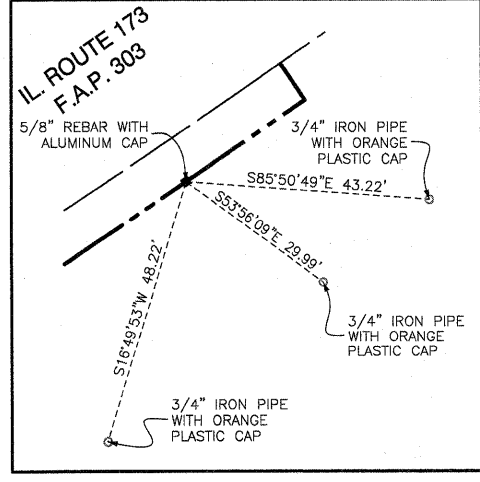
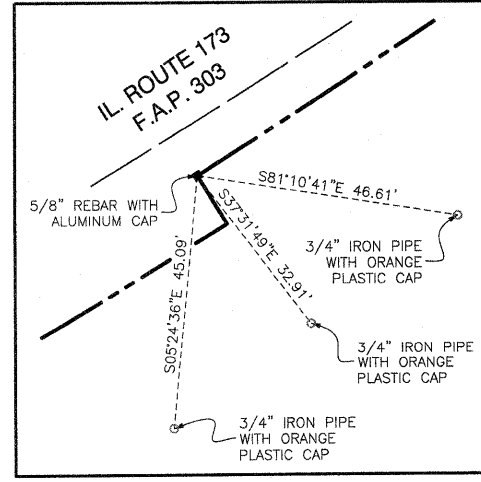
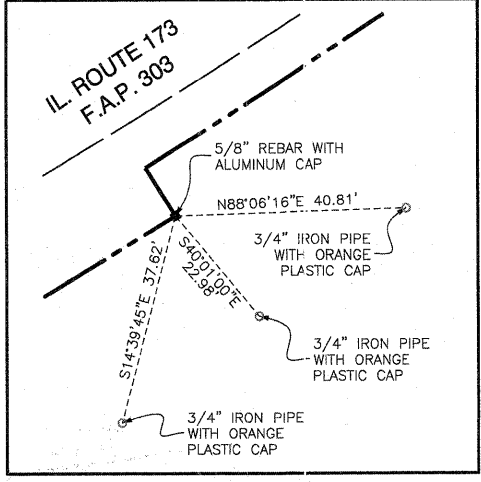
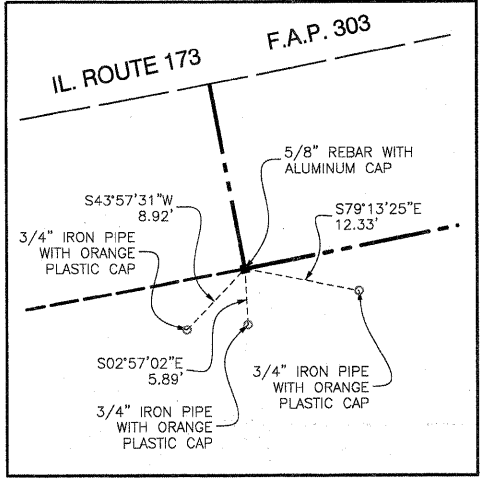
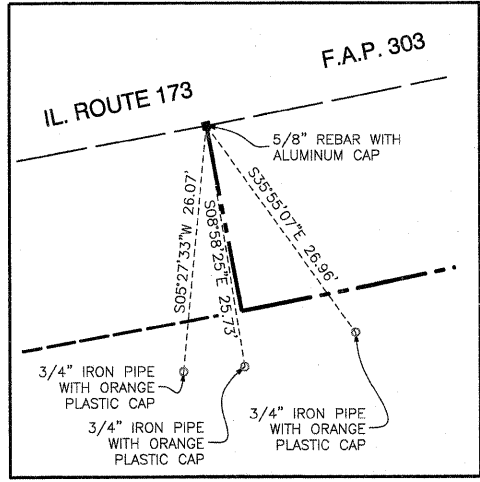
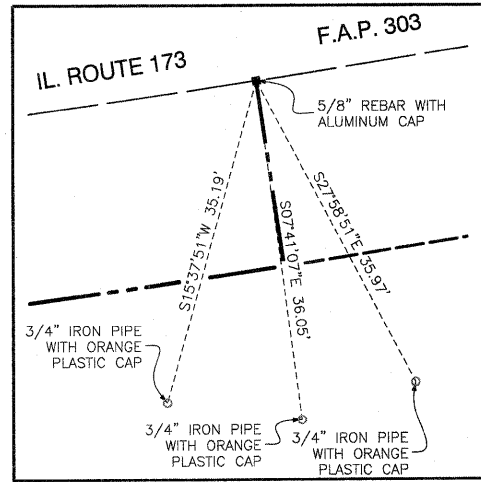
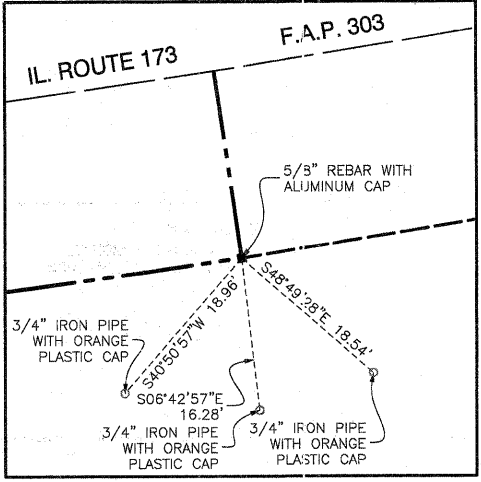
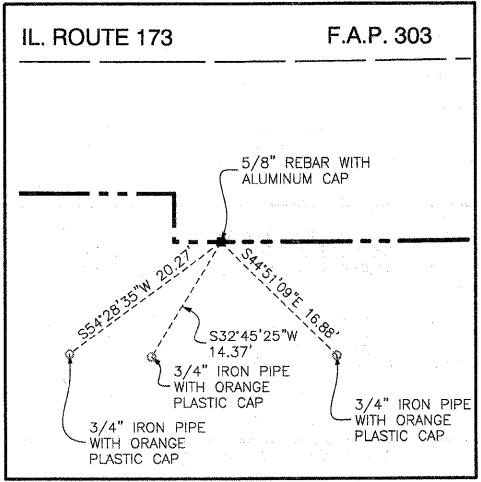
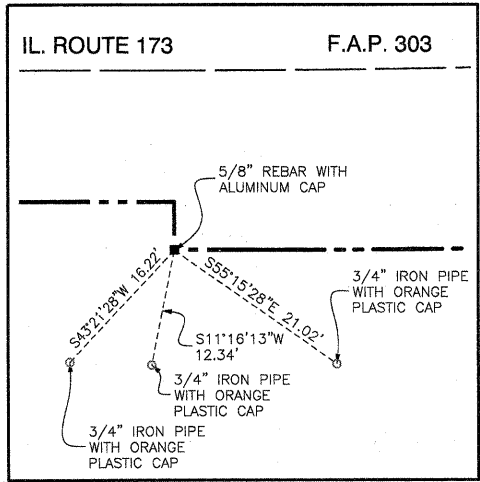
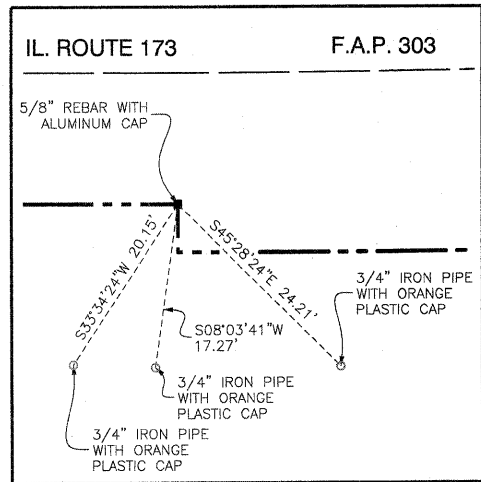
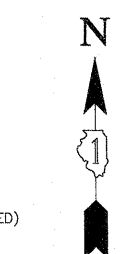
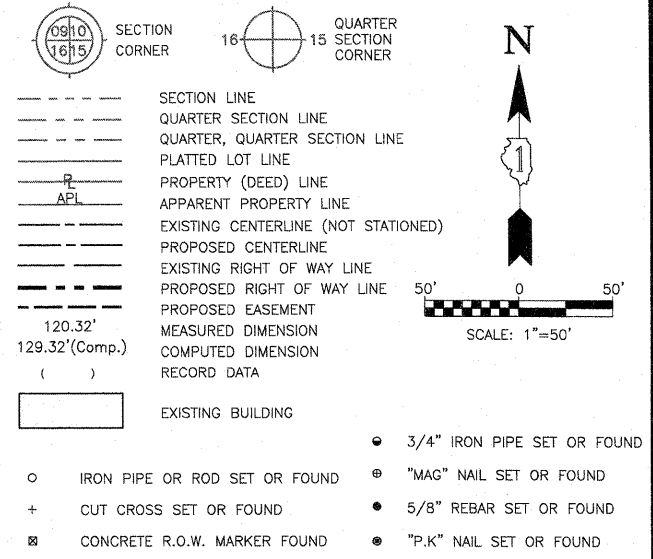
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
PROJECT JOB NO.: R-91-013-10
STATION TO STATION
SCALE: 1"=50' SHEET 41 OF 106

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

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SEP 0 9 2010
PLATS & LEGALS

LEGEND



DATE	
BY	
R.O.W. PLAT	
NOTEBOOK NO.	



STATE OF ILLINOIS }
COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT SOUTH HOLLAND, ILLINOIS THIS 18TH DAY OF FEBRUARY, 2010 A.D.

Randell E. Gann
ILLINOIS REGISTERED LAND SURVEYOR NO. 035-003241
EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
PROJECT JOB NO.: R-91-013-10
STATION TO STATION
SCALE: 1"=50' SHEET 42 OF 106

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

RECEIVED
SEP 0 9 2010
PLAT & LEGALS

LEGEND

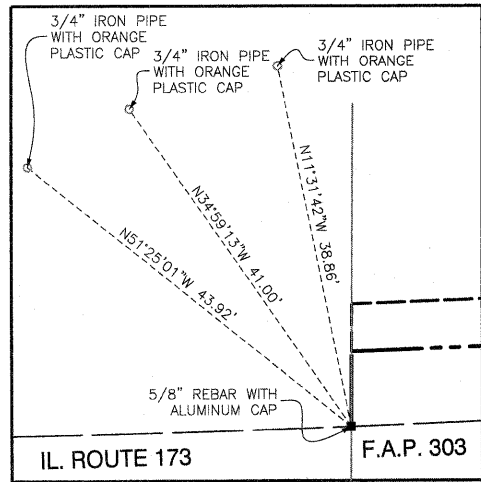
SECTION CORNER (0910/1615)
 QUARTER SECTION CORNER (16/15)

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE
 APPARENT PROPERTY LINE
 EXISTING CENTERLINE (NOT STATIONED)
 PROPOSED CENTERLINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DATA

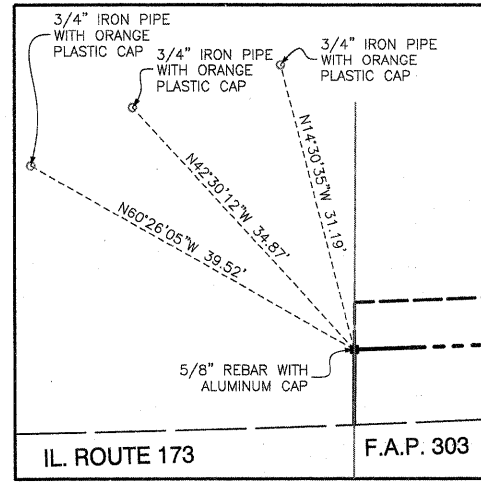
EXISTING BUILDING

3/4" IRON PIPE SET OR FOUND
 IRON PIPE OR ROD SET OR FOUND
 CUT CROSS SET OR FOUND
 CONCRETE R.O.W. MARKER FOUND
 T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
 RIGHT OF WAY STAKING PROPOSED TO BE SET.

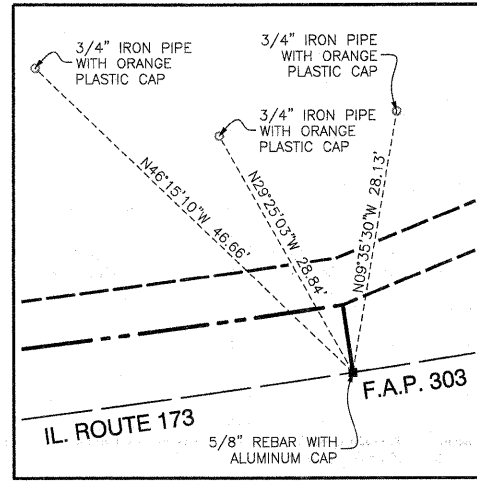
SCALE: 1"=50'



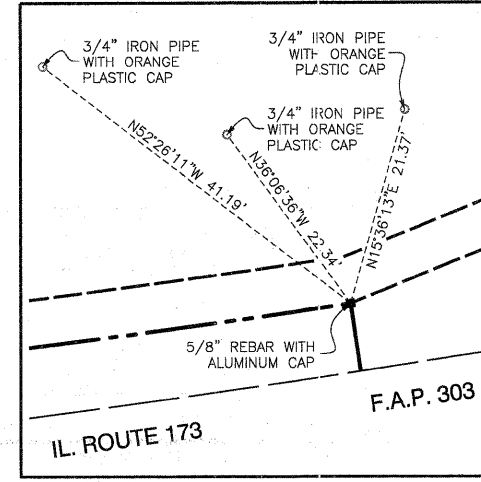
POINT NUMBER 5047
 STATION: 439+11.58 OFFSET: 40.62' LEFT
 NORTHING: 2111224.6108 EASTING: 947860.8907



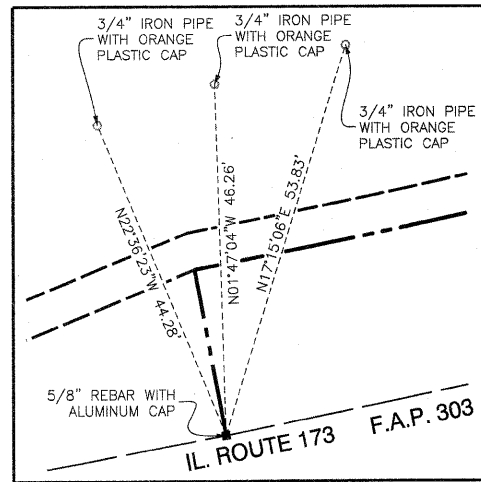
POINT NUMBER 5048
 STATION: 439+11.88 OFFSET: 48.50' LEFT
 NORTHING: 2111232.4983 EASTING: 947860.9373



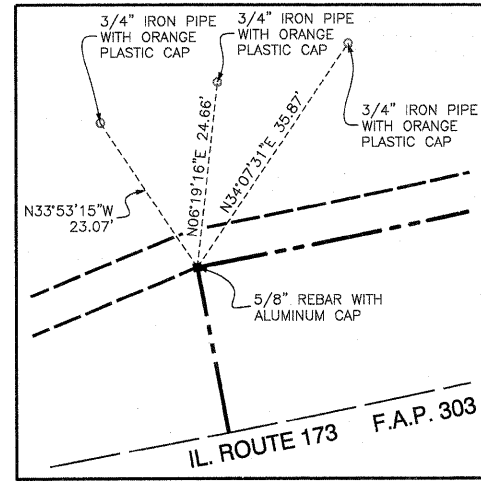
POINT NUMBER 5052
 STATION: 441+01.59 OFFSET: 41.27' LEFT
 NORTHING: 211241.8097 EASTING: 948045.2894



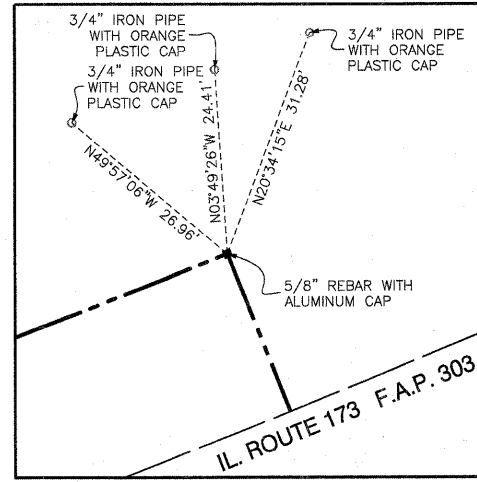
POINT NUMBER 5051
 STATION: 441+01.59 OFFSET: 48.50' LEFT
 NORTHING: 2111248.9659 EASTING: 948044.2292



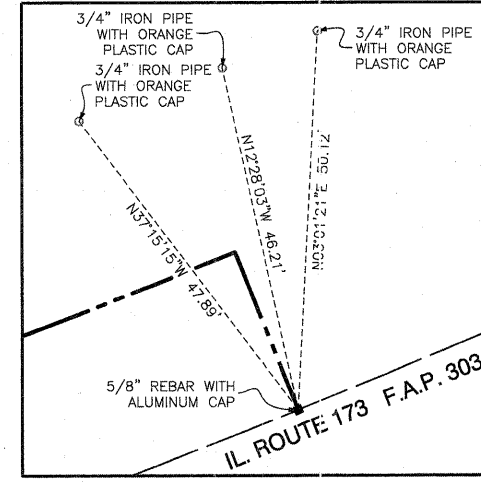
POINT NUMBER 5053
 STATION: 441+70.81 OFFSET: 41.38' LEFT
 NORTHING: 2111253.2142 EASTING: 948111.8004



POINT NUMBER 5054
 STATION: 441+70.81 OFFSET: 63.50' LEFT
 NORTHING: 2111274.9359 EASTING: 948107.6447



POINT NUMBER 5058
 STATION: 444+89.60 OFFSET: 63.50' LEFT
 NORTHING: 2111361.1670 EASTING: 948401.2915



POINT NUMBER 5059
 STATION: 444+89.60 OFFSET: 41.12' LEFT
 NORTHING: 2111340.3992 EASTING: 948409.6399

DATE	
BY	
R.O.W. PLAT	
NOTEBOOK NO.	

STATE OF ILLINOIS)
 COUNTY OF COOK) SS



THIS IS TO CERTIFY THAT I, RANDELL E. GANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

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PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 303 (ILLINOIS ROUTE 173)

LIMITS: OVER NIPPERSINK CREEK COUNTY: McHENRY
 PROJECT: JOB NO.: R-91-013-10
 STATION: TO STATION
 SCALE: 1"=50' SHEET 43 OF 106

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

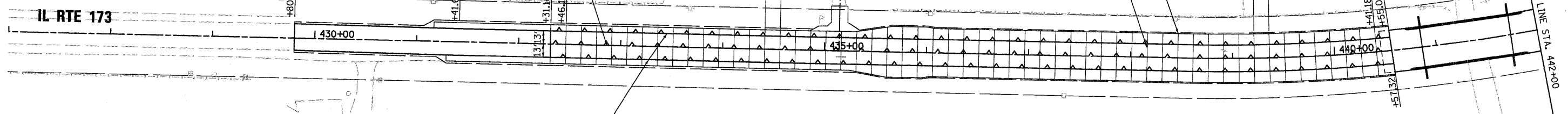
RECEIVED
 SEP 0 9 2010
 PLAT & LEGALS

STA. 432+31.18 TO STA. 440+56.18: 54 TRAVERSE
CONTRACTION JOINTS AT 15.0' O.C. (825')

30" LONG NO. 6 TIE BARS @ 30" CENTERS ALONG
LONGITUDINAL CONSTRUCTION JOINTS (TYP.)

18" LONG 1/2" DOWEL BAR ASSEMBLY @ 12" CENTERS
ALONG TRASVERSE CONTRACTION JOINTS (TYP.)

14.88' CHORD @ LT E/P
15.12' CHORD @ RT E/P
THRU
CURVE



24" LONG NO. 6 TIE BARS @ 24" CENTERS ALONG CURB
AND SHOULDER LONGITUDINAL CONSTRUCTION JOINTS (TYP.)

GENERAL NOTES:

1. TRANSVERSE DOWELED JOINTS IN THE PORTLAND CEMENT CONCRETE, 9/2" (JOINTED) UNLESS OTHERWISE NOTED, SHALL BE SPACED AT 15' O.C. (TYP.) MEASURED ALONG CENTERLINE. JOINT LAYOUT MAY BE MODIFIED (±3' PER STANDARD 420101) UPON APPROVAL BY THE ENGINEER TO INCORPORATE CHANGES DURING CONSTRUCTION.
2. REINFORCING STEEL IS NOT SHOWN ALONG EVERY JOINT ON THE PLAN, BUT IS INTENDED TO BE PLACED ALONG EACH JOINT AS NOTED.
3. REFERENCE IDOT STANDARD DETAILS 420001, 420101, 420111, 483001, & 606001.
4. THE PAVEMENT JOINTING PLAN IS INTENDED ONLY AS A SUGGESTED LAYOUT AND ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE CONSTRUCTION OF THESE JOINTS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEMS IN WHICH THE JOINTS ARE CONTAINED.

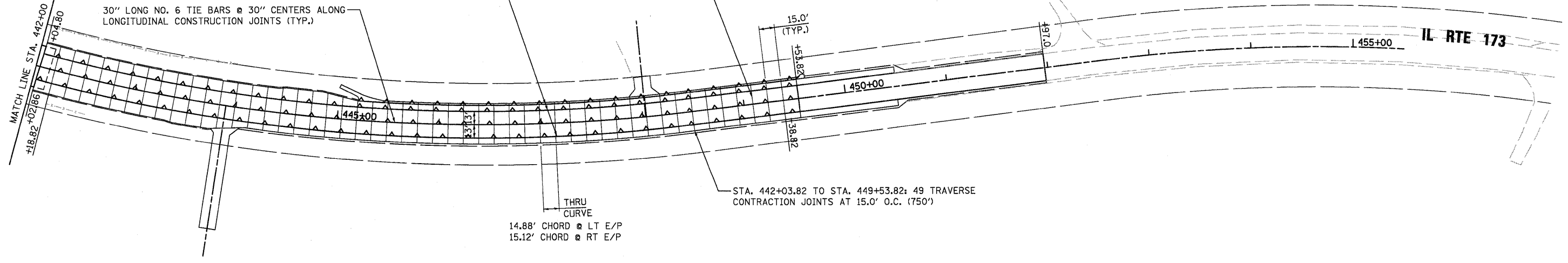
LEGEND

- LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS
- TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS

18" LONG 1/2" DOWEL BAR ASSEMBLY @ 12" CENTERS
ALONG TRASVERSE CONTRACTION JOINTS (TYP.)

24" LONG NO. 6 TIE BARS @ 24" CENTERS ALONG CURB
AND SHOULDER LONGITUDINAL CONSTRUCTION JOINTS (TYP.)

30" LONG NO. 6 TIE BARS @ 30" CENTERS ALONG
LONGITUDINAL CONSTRUCTION JOINTS (TYP.)



STA. 442+03.82 TO STA. 449+53.82: 49 TRAVERSE
CONTRACTION JOINTS AT 15.0' O.C. (750')

14.88' CHORD @ LT E/P
15.12' CHORD @ RT E/P
THRU
CURVE

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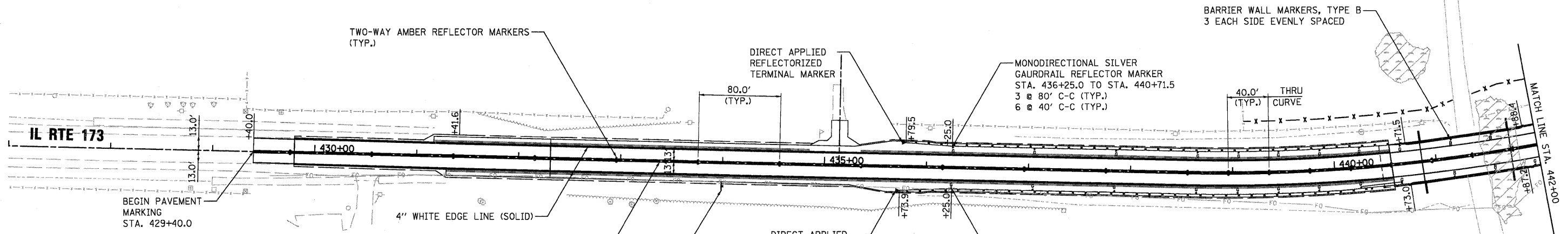
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED - SBP	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT JOINTING PLAN	
SCALE:	SHEET NO. 44 OF 106 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 44
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



GENERAL NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
2. ALL GUARDRAIL REFLECTOR MARKERS SHALL BE MONODIRECTIONAL SILVER.
3. FOR DETAILS OF GUARDRAIL REFLECTOR MARKERS AND TERMINAL MARKER PLACEMENT, SEE STANDARD 635006.
4. SEE STANDARD 781001 FOR DETAILED PAVEMENT MARKING INFORMATION.
5. ALL SIGN POSTS SHALL BE TELESCOPING STEEL SIGN SUPPORTS, SEE STANDARD 728001.
6. DELINEATORS SHALL BE PLACED AT LOCATIONS NOTED IN THE GENERAL NOTES AND IN ACCORDANCE WITH STD. 635001.

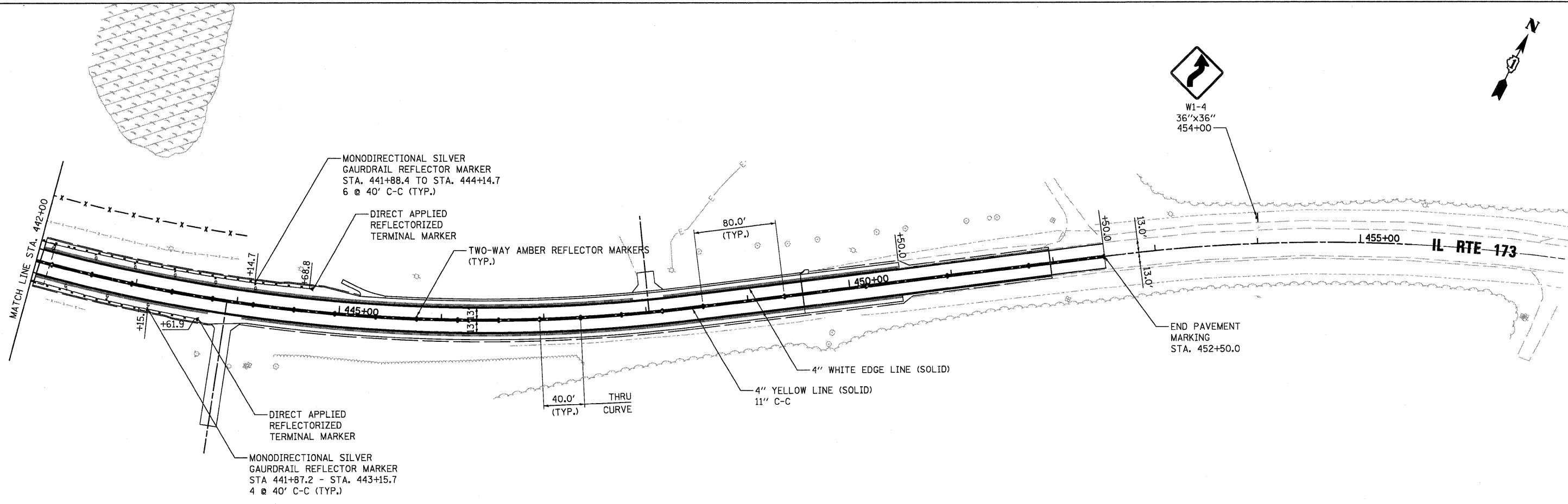


PRIOR CONTACT NOTE:

THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC FIELD TECHNICIAN, TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS. DEBBIE CAN BE REACHED AT (847) 438-2300.

LEGEND

- A G GUARDRAIL MARKERS, TYPE A (78200410)
- B BARRIER WALL MARKERS, TYPE B (78200520)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER MARKER (78100100)



FILE NAME = P:\CIBEL_MEST_Projects\2009\09-0147_IL173\Civil\Drawings\168129_sht-pmk1.dgn

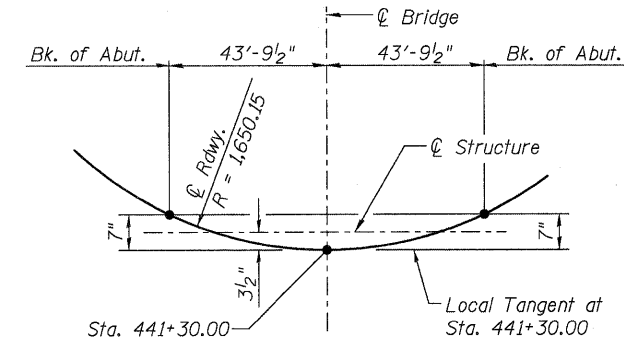
WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	USER NAME = #USER#	DESIGNED - SBP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN		F.A.P. RTE. = 303	SECTION = 132 B-2	COUNTY = McHENRY	TOTAL SHEETS = 106	SHEET NO. = 45
	PLOT SCALE =	CHECKED - PJF	REVISED -		SCALE:	SHEET NO. 45 OF 106 SHEETS	STA. 428+49.0 TO STA. 453+65.0	CONTRACT NO. 60129 FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
	PLOT DATE = 1/5/2011	DATE = 12/14/10	REVISED -								

Bench Mark: BM #2. Sq. cut in top of SE wingwall of Rt. 173 bridge over Nippersink Creek of Structure No. 056-0029, Elev. 936.69.

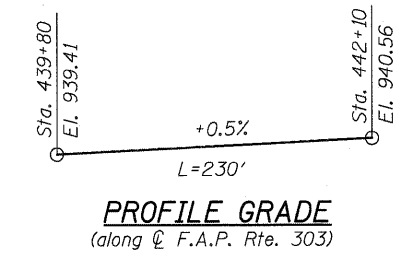
Existing Structure: S.N. 056-0029 was built in 1930 under F.A.P. Rte 303, Sec. 132B at Sta. 441+36.41. Structure consists of a two simple span superstructure on reinforced concrete closed abutments and a solid wall pier, 75'-9 5/8" back-to-back abutments. In 1974, the bridge superstructure was replaced and widened to 41'-0" out-to-out with prestressed precast concrete (PPC) deck beams. In 2000, the north exterior PPC deck beam in Span 2 was replaced.

The contractor shall remove and replace the existing bridge with a one span 54" PPC I-beam superstructure on integral abutments. The road shall be kept open at all times by utilizing stage construction and a temporary signal system.

Salvage: None.



OFFSET SKETCH



PROFILE GRADE
(along ϕ F.A.P. Rte. 303)

CURVE DATA

$\Delta = 34^\circ 20' 44"$
 $D = 3^\circ 28' 20"$
 $R = 1,650.15'$
 $T = 509.95'$
 $L = 989.18'$
 $E = 77.00'$
 $e = 5.75\%$
 $S.E. Run = 170'$
 $P.C. Sta. = 438+55.37$
 $P.I. Sta. = 443+65.32$
 $P.T. Sta. = 448+44.54$
 $SE = 5.75\%$

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
*Carl P...
 ENGINEER OF BRIDGES AND STRUCTURES*

WATERWAY INFORMATION

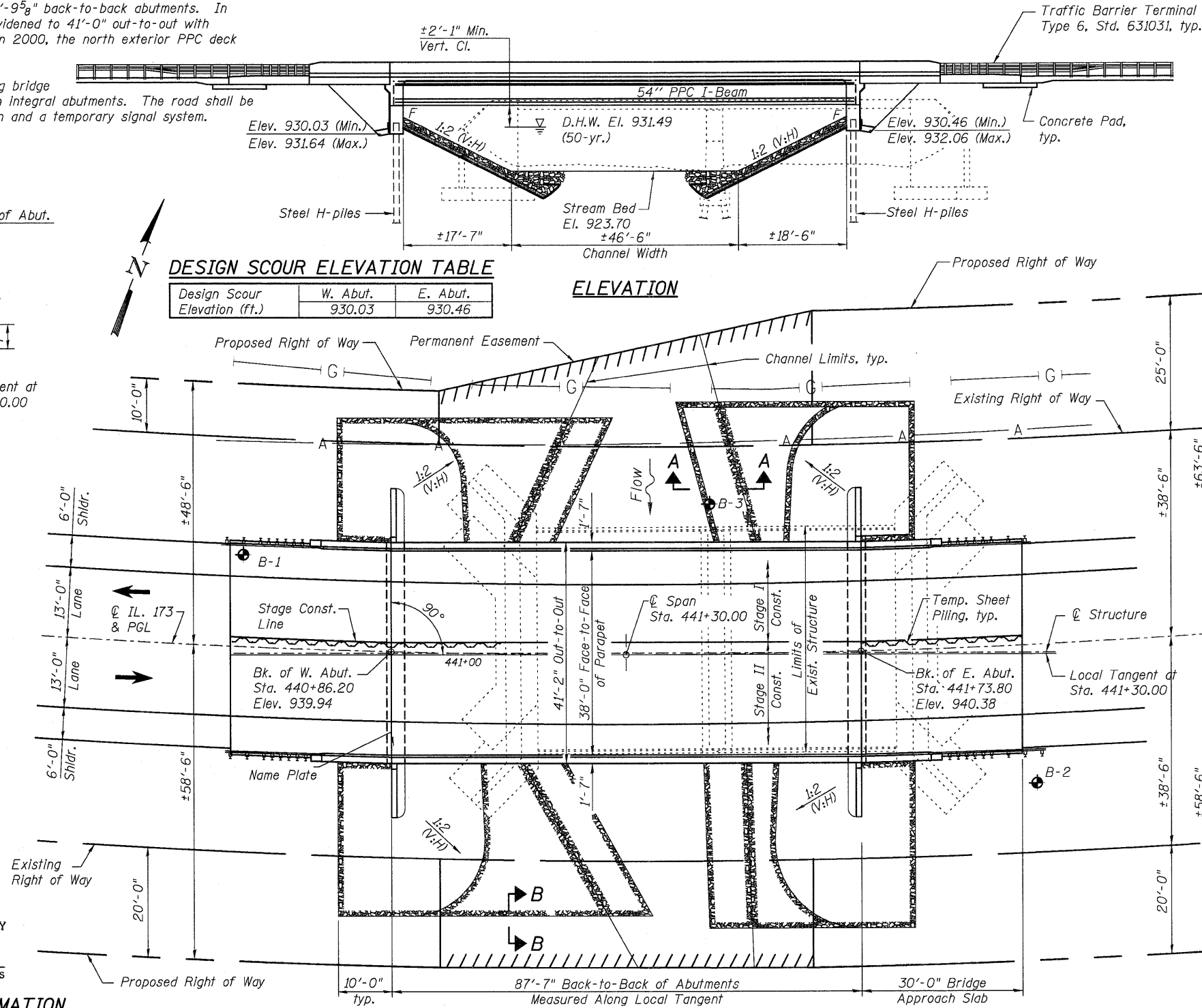
Drainage Area = 19.6 Sq. Mi. Existing Low Grade Elev. = 933.69 ft. @ Sta. 440+50 (EOS)
 Proposed Low Grade Elev. = 938.78 ft. @ Sta. 439+05 (EOS)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1240	372	474	930.77	0.12	0.00	930.89	930.77
Base	50	1850	422	529	931.49	0.31	0.12	931.80	931.61
Overtopping	100	2090	438	547	931.72	0.72	0.18	932.44	931.90
Max. Calc.	>500	>2670							
	500	2670	474	588	932.23	0.53	0.34	932.76	932.57

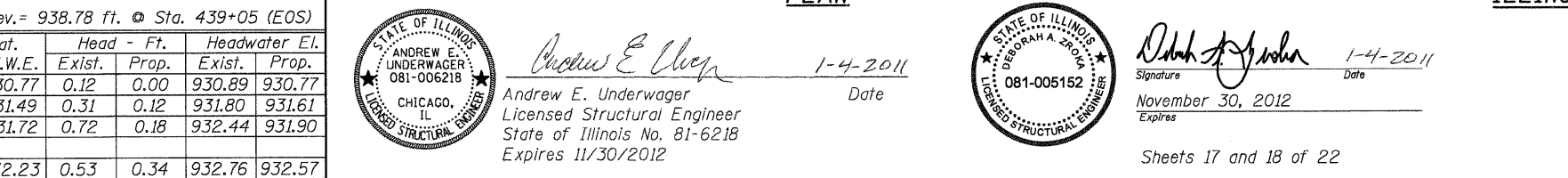
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	930.03	930.46

ELEVATION



PLAN



DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

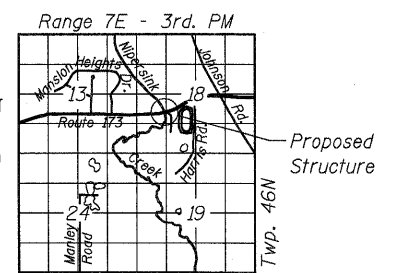
$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.078g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.125g
 Soil Site Class = D

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier For Stage Construction
- 5-6 Top of Slab Elevations
- 7-8 Top of Approach Slab Elevations
- 9 Superstructure
- 10 Superstructure Details
- 11-12 Bridge Approach Slab Details
- 13 Diaphragm Details
- 14 Framing Plan
- 15 54" PPC I-Beam
- 16 54" PPC I-Beam Details
- 17-18 Abutments
- 19 HP Pile Details
- 20 Bar Splicer Assembly Details
- 21-22 Soil Boring Logs



LOCATION SKETCH

GENERAL PLAN

ILLINOIS ROUTE 173 OVER NIPPERSINK CREEK
 F.A.P. ROUTE 303 SEC. 132 B-2
 McHENRY COUNTY
 STATION 441+30.00
 STRUCTURE NO. 056-0091



Andrew E. Underwager
 Andrew E. Underwager
 Licensed Structural Engineer
 State of Illinois No. 81-6218
 Expires 11/30/2012



Deborah A. Zivok
 Deborah A. Zivok
 Licensed Structural Engineer
 State of Illinois No. 081-005152
 Expires 11/30/2012

November 30, 2012
 Expires
 Sheets 17 and 18 of 22

FILE NAME = P:\CBBEL\WEST Projects\2009\09-0147 ILL173\Structure\01-00129-001-GPE.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7756

USER NAME =	DESIGNED - MLH	REVISED -
FILE NAME =	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - MLH	REVISED -
PLOT DATE =	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	46
			CONTRACT NO. 60129	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

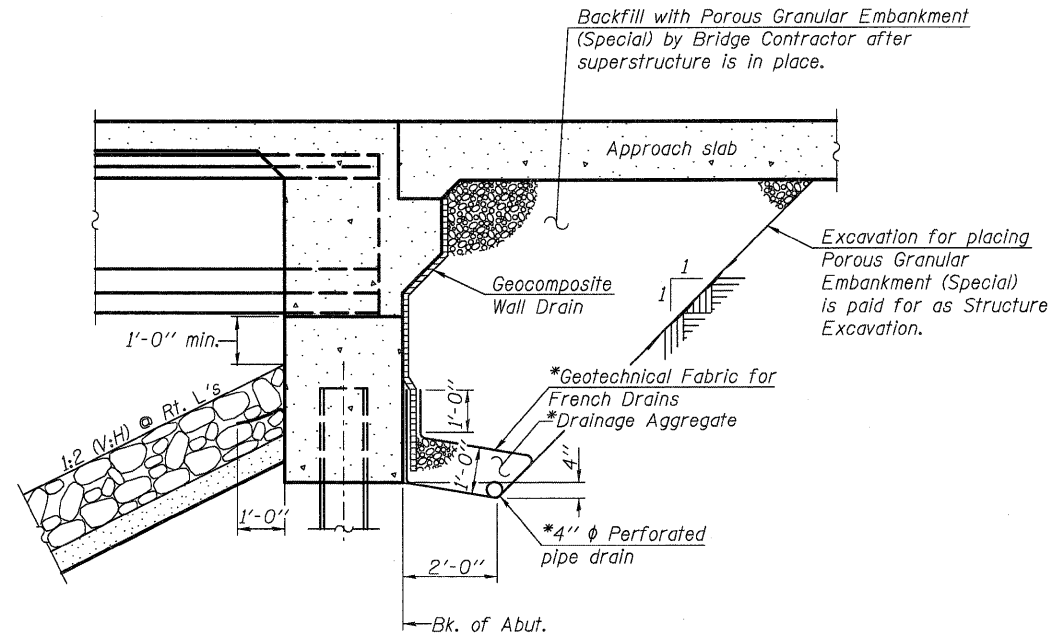
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for the removal and replacement of the superstructure.

If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

Slipforming of the parapets is not allowed.



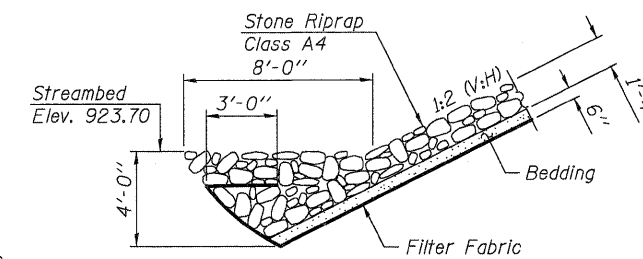
SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

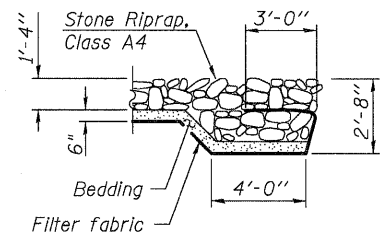
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		837	837
Filter Fabric	Sq. Yd.		837	837
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		122	122
Concrete Structures	Cu. Yd.		63.7	63.7
Concrete Superstructure	Cu. Yd.	268.4		268.4
Bridge Deck Grooving	Sq. Yd.	626		626
Concrete Encasement	Cu. Yd.		6.2	6.2
Protective Coat	Sq. Yd.	724		724
Furnishing and Erecting PPC I-Beams, 54"	Foot	516.5		516.5
Reinforcement Bars, Epoxy Coated	Pound	57,580	13,650	71,230
Bar Splicers	Each	530	116	646
Furnishing Steel Piles HP 12x53	Foot		888	888
Driving Piles	Foot		888	888
Test Pile Steel HP 12x53	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		104	104
Porous Granular Embankment, Special	Cu. Yd.		202	202
Asbestos Bearing Pad Removal	Each	52		52
Temporary Sheet Piling	Sq. Ft.		1,238	1,238
Pipe Underdrains for Structures, 4"	Foot		130	130



SECTION A-A



SECTION B-B

STATION 441+30
BUILT 201 BY
STATE OF ILLINOIS
F.A.P. RT. 303 SEC. 132 B-2
LOADING HL-93
STRUCTURE NO. 056-0091

NAME PLATE
See Std. 515001

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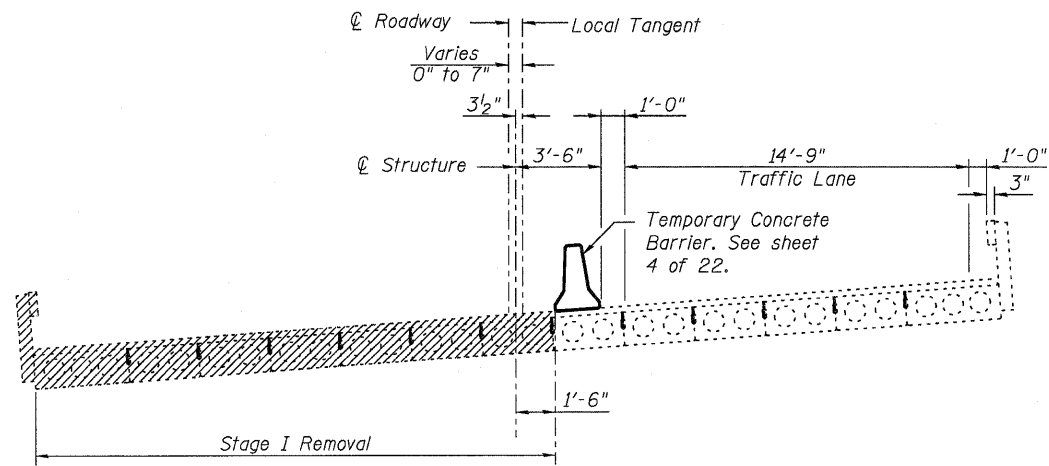
WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7756

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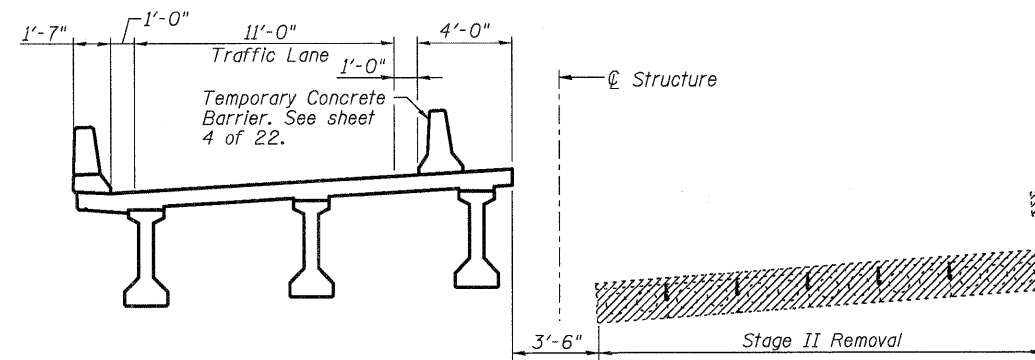
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 056-0091
SHEET NO. 2 OF 22 SHEETS

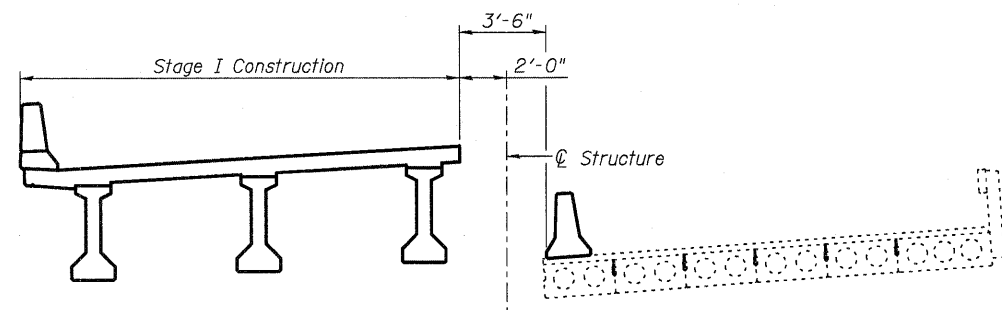
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			CONTRACT NO. 60129	
ILLINOIS FED. AID PROJECT				



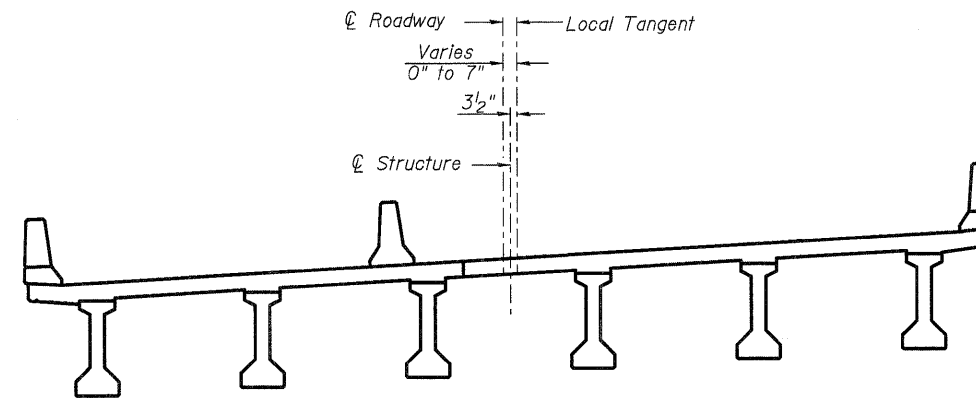
STAGE I REMOVAL & TRAFFIC



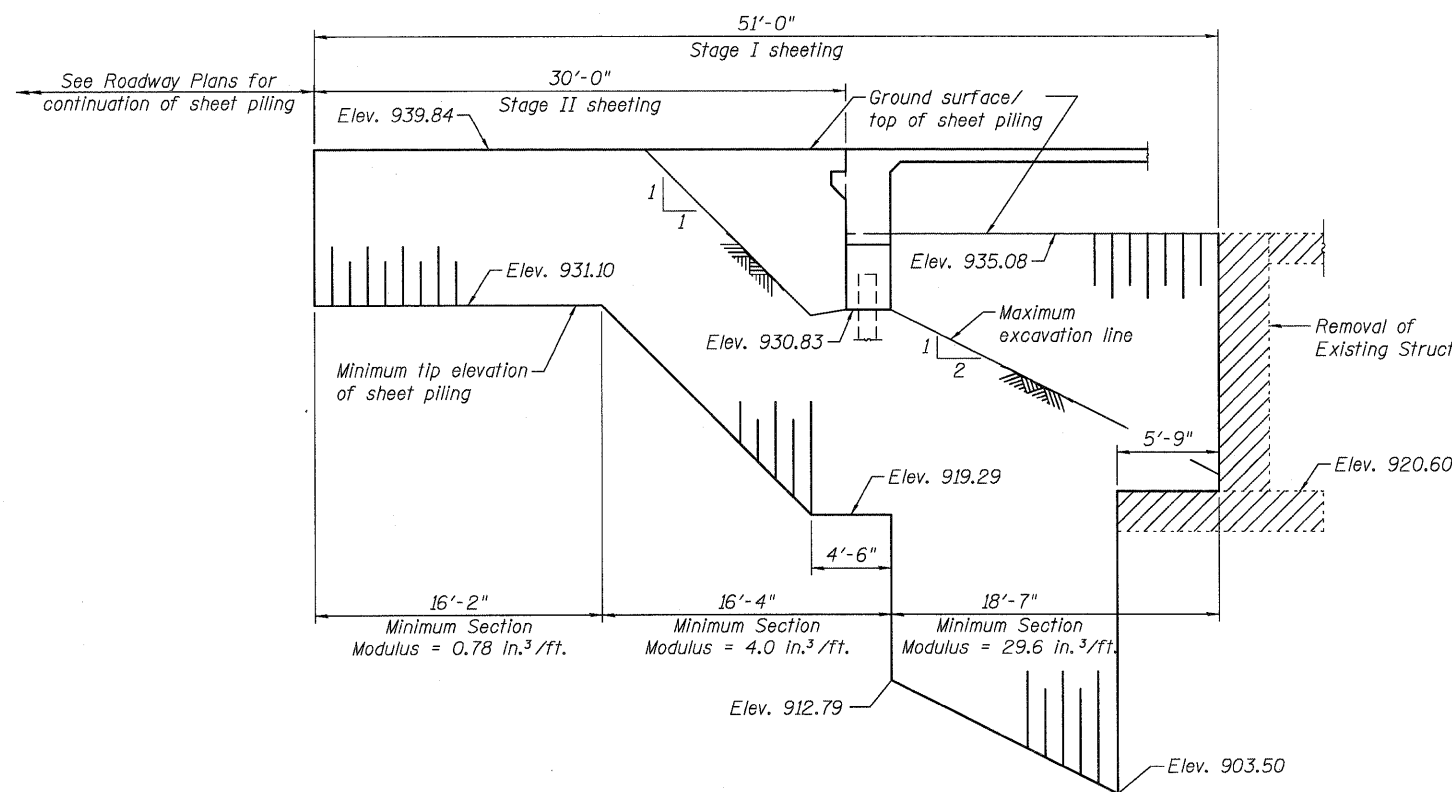
STAGE II REMOVAL & TRAFFIC



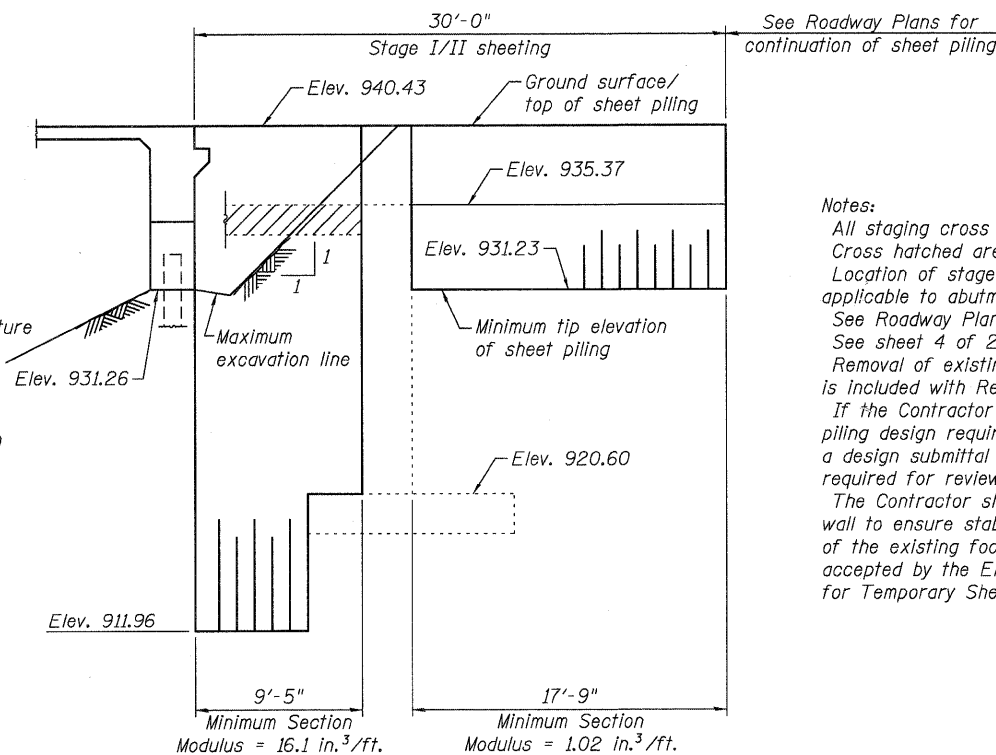
STAGE I CONSTRUCTION



STAGE II CONSTRUCTION



TEMPORARY SHEET PILING AT WEST ABUT.



TEMPORARY SHEET PILING AT EAST ABUT.

Notes:
 All staging cross sections are looking East.
 Cross hatched area indicate removal of existing structure.
 Location of stage removal & construction lines are also applicable to abutments.
 See Roadway Plans for quantity of Temporary Concrete Barrier.
 See sheet 4 of 22 for details of Temporary Concrete Barrier.
 Removal of existing bridge rail and bituminous wearing surface is included with Removal of Existing Structures.
 If the Contractor chooses to alter the temporary cantilever sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of the sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

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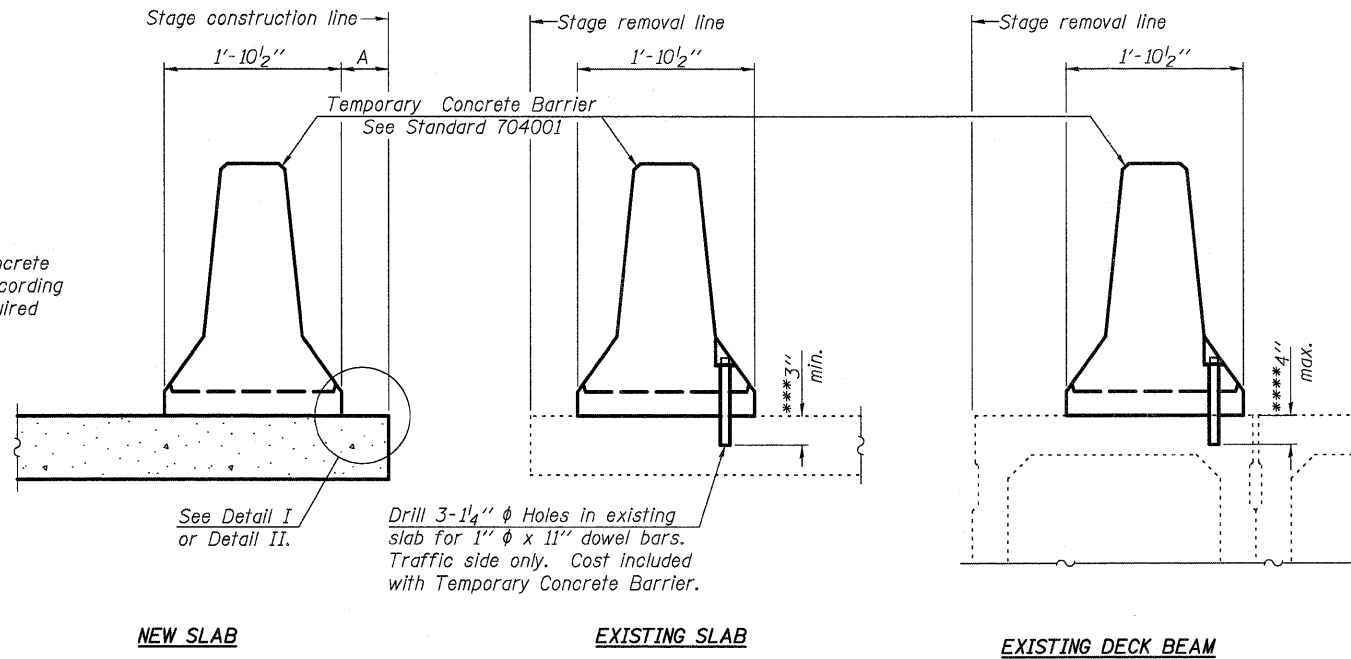
STATE OF ILLINOIS
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STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 056-0091

SHEET NO. 3 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	48
CONTRACT NO. 60129				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

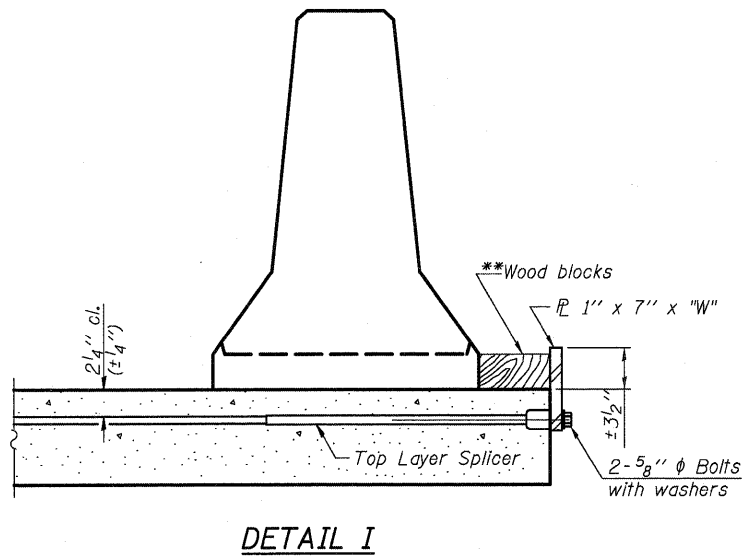
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

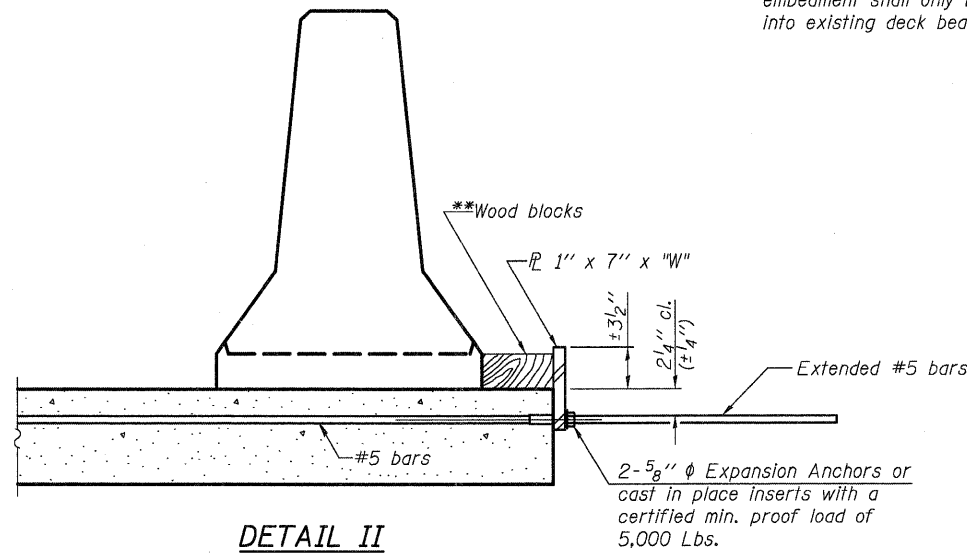
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

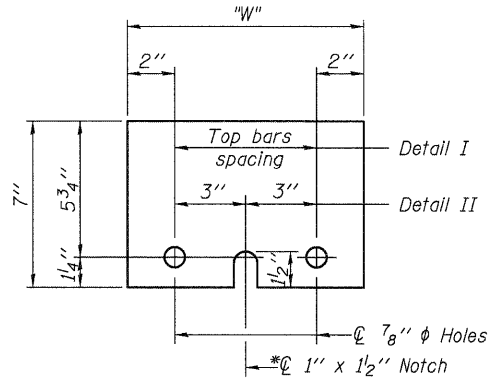
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

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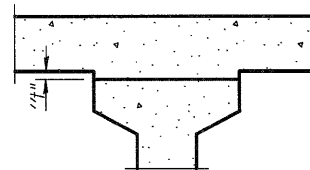
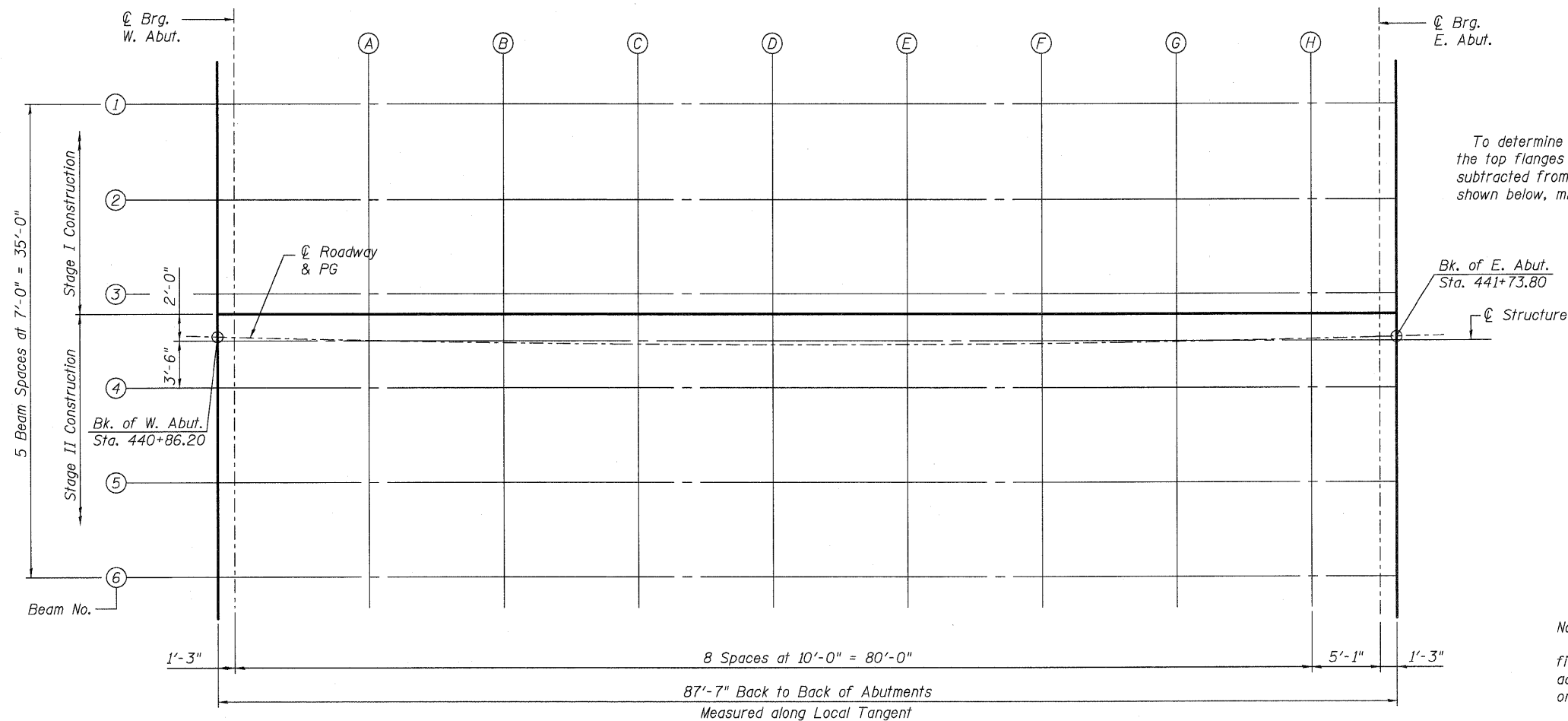
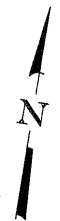
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 056-0091**

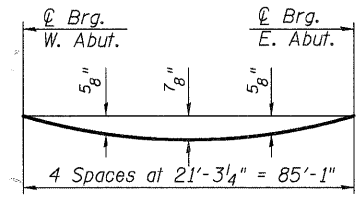
SHEET NO. 4 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	49
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on Sheet 6 of 22.

PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+85.74	-17.20	938.95	938.95
CL Brg. W. Abut.	440+87.00	-17.24	938.96	938.96
A	440+97.10	-17.47	938.99	939.02
B	441+07.21	-17.63	939.04	939.08
C	441+17.32	-17.74	939.08	939.14
D	441+27.43	-17.79	939.13	939.20
E	441+37.53	-17.77	939.18	939.25
F	441+47.64	-17.70	939.23	939.29
G	441+57.75	-17.56	939.29	939.33
H	441+67.85	-17.36	939.35	939.37
CL Brg. E. Abut.	441+72.98	-17.24	939.39	939.39
Bk. of E. Abut.	441+74.25	-17.20	939.40	939.40

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+85.93	-10.20	939.35	939.35
CL Brg. W. Abut.	440+87.18	-10.24	939.36	939.36
A	440+97.25	-10.47	939.40	939.42
B	441+07.31	-10.63	939.44	939.49
C	441+17.37	-10.74	939.48	939.55
D	441+27.44	-10.79	939.53	939.60
E	441+37.50	-10.77	939.58	939.65
F	441+47.57	-10.70	939.63	939.69
G	441+57.63	-10.56	939.69	939.73
H	441+67.69	-10.36	939.75	939.77
CL Brg. E. Abut.	441+72.80	-10.24	939.79	939.79
Bk. of E. Abut.	441+74.06	-10.20	939.80	939.80

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.11	-3.21	939.76	939.76
CL Brg. W. Abut.	440+87.37	-3.24	939.76	939.76
A	440+97.38	-3.47	939.80	939.82
B	441+07.40	-3.64	939.84	939.89
C	441+17.43	-3.74	939.88	939.95
D	441+27.45	-3.79	939.93	940.00
E	441+37.47	-3.77	939.98	940.05
F	441+47.49	-3.70	940.04	940.09
G	441+57.51	-3.56	940.09	940.13
H	441+67.53	-3.36	940.15	940.17
CL Brg. E. Abut.	441+72.62	-3.24	940.19	940.19
Bk. of E. Abut.	441+73.87	-3.21	940.20	940.20

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 056-0091**

SHEET NO. 5 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	50
CONTRACT NO. 60I29			ILLINOIS FED. AID PROJECT	

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.15	-1.71	939.84	939.84
CL Brg. W. Abut.	440+87.41	-1.74	939.85	939.85
A	440+97.41	-1.97	939.88	939.91
B	441+07.43	-2.14	939.92	939.97
C	441+17.44	-2.24	939.97	940.03
D	441+27.45	-2.29	940.02	940.09
E	441+37.46	-2.27	940.07	940.14
F	441+47.47	-2.20	940.12	940.18
G	441+57.49	-2.06	940.18	940.22
H	441+67.50	-1.86	940.24	940.25
CL Brg. E. Abut.	441+72.58	-1.74	940.27	940.27
Bk. of E. Abut.	441+73.83	-1.71	940.28	940.28

CL ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.20	0.00	939.94	939.94
CL Brg. W. Abut.	440+87.45	0.00	939.95	939.95
A	440+97.45	0.00	940.00	940.02
B	441+07.44	0.00	940.05	940.10
C	441+17.44	0.00	940.10	940.16
D	441+27.44	0.00	940.15	940.22
E	441+37.43	0.00	940.20	940.27
F	441+47.42	0.00	940.25	940.30
G	441+57.41	0.00	940.30	940.34
H	441+67.40	0.00	940.35	940.36
CL Brg. E. Abut.	441+72.54	0.00	940.37	940.37
Bk. of E. Abut.	441+73.79	0.00	940.38	940.38

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.30	3.79	940.16	940.16
CL Brg. W. Abut.	440+87.55	3.76	940.16	940.16
A	440+97.52	3.53	940.20	940.23
B	441+07.50	3.36	940.24	940.29
C	441+17.48	3.26	940.28	940.35
D	441+27.46	3.21	940.33	940.40
E	441+37.44	3.23	940.38	940.45
F	441+47.42	3.30	940.44	940.49
G	441+57.40	3.44	940.49	940.53
H	441+67.37	3.63	940.56	940.57
CL Brg. E. Abut.	441+72.44	3.76	940.59	940.59
Bk. of E. Abut.	441+73.69	3.79	940.60	940.60

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.48	10.79	940.56	940.56
CL Brg. W. Abut.	440+87.73	10.76	940.57	940.57
A	440+97.66	10.53	940.60	940.63
B	441+07.60	10.36	940.64	940.69
C	441+17.53	10.26	940.69	940.75
D	441+27.47	10.21	940.73	940.80
E	441+37.40	10.23	940.78	940.85
F	441+47.34	10.30	940.84	940.89
G	441+57.28	10.44	940.89	940.93
H	441+67.21	10.63	940.96	940.97
CL Brg. E. Abut.	441+72.26	10.76	940.99	940.99
Bk. of E. Abut.	441+73.50	10.79	941.00	941.00


BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.67	17.79	940.96	940.96
CL Brg. W. Abut.	440+87.90	17.75	940.97	940.97
A	440+97.80	17.53	941.00	941.03
B	441+07.69	17.36	941.04	941.09
C	441+17.58	17.26	941.09	941.15
D	441+27.48	17.21	941.13	941.21
E	441+37.37	17.23	941.18	941.25
F	441+47.27	17.30	941.24	941.30
G	441+57.16	17.44	941.30	941.33
H	441+67.06	17.63	941.36	941.37
CL Brg. E. Abut.	441+72.08	17.75	941.39	941.39
Bk. of E. Abut.	441+73.32	17.79	941.40	941.40

CL STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	440+86.21	0.29	939.96	939.96
CL Brg. W. Abut.	440+87.46	0.26	939.96	939.96
A	440+97.45	0.03	940.00	940.02
B	441+07.45	-0.14	940.04	940.09
C	441+17.45	-0.24	940.08	940.15
D	441+27.45	-0.29	940.13	940.20
E	441+37.45	-0.27	940.18	940.25
F	441+47.45	-0.20	940.24	940.29
G	441+57.45	-0.06	940.29	940.33
H	441+67.45	0.14	940.35	940.37
CL Brg. E. Abut.	441+72.53	0.26	940.39	940.39
Bk. of E. Abut.	441+73.78	0.29	940.40	940.40

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	PLOT SCALE =	DRAWN - MLH	REVISED -			CONTRACT NO. 60129				
	PLOT DATE =	CHECKED - AEU	REVISED -			ILLINOIS FED. AID PROJECT				

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+55.33	-19.12	938.69
A1	440+65.44	-19.12	938.74
A2	440+75.58	-18.70	938.81
Bk. W. Abut.	440+85.70	-18.70	938.86

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+55.61	-13.00	939.04
A1	440+65.68	-13.00	939.09
A2	440+75.77	-13.00	939.14
Bk. W. Abut.	440+85.85	-13.00	939.19

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+56.12	-1.71	939.69
A1	440+66.12	-1.71	939.74
A2	440+76.14	-1.71	939.79
Bk. W. Abut.	440+86.15	-1.71	939.84

☉ ROADWAY & P.G.

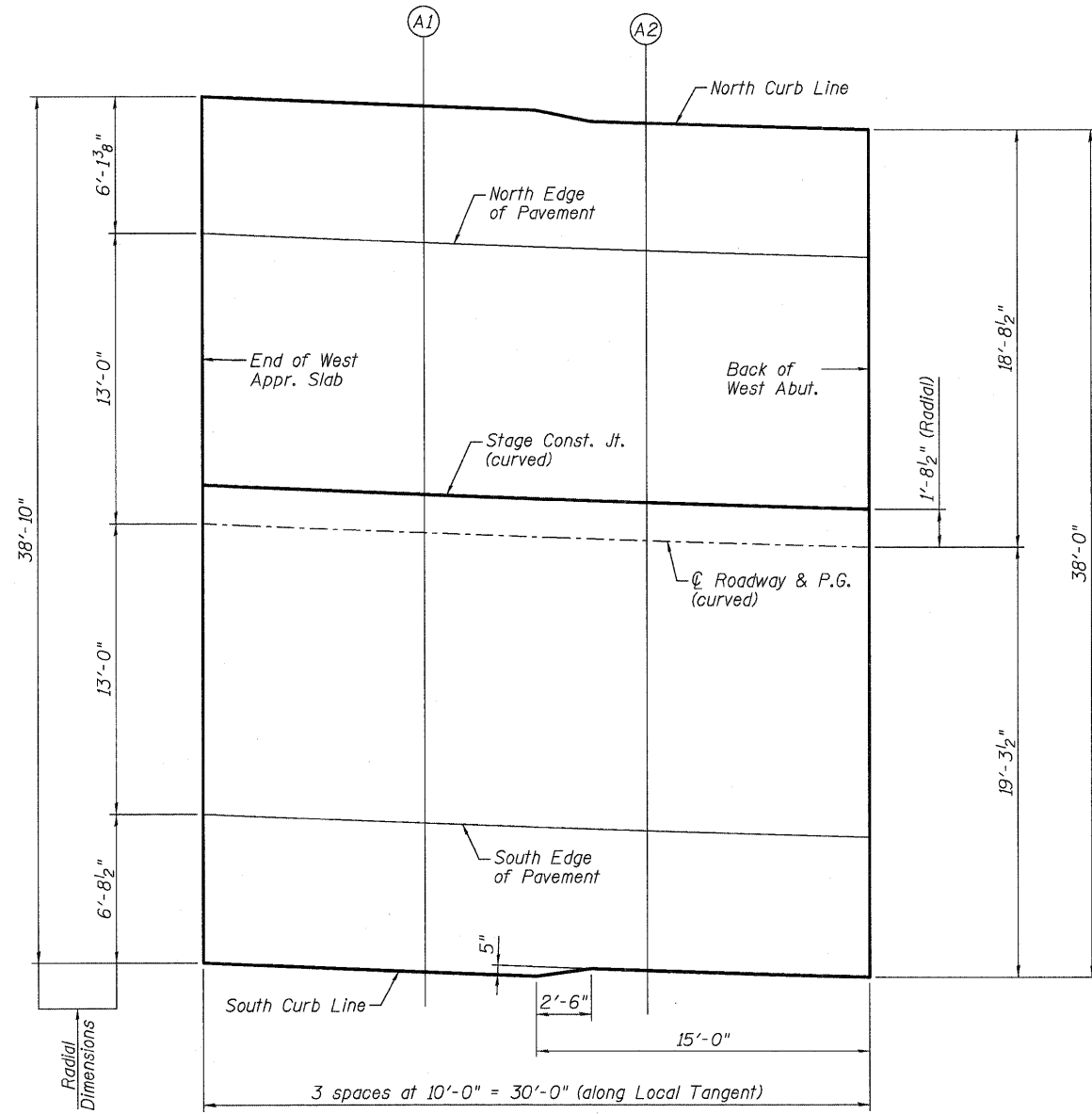
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+56.20	0.00	939.79
A1	440+66.19	0.00	939.84
A2	440+76.20	0.00	939.89
Bk. W. Abut.	440+86.20	0.00	939.94

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+56.78	13.00	940.54
A1	440+66.69	13.00	940.59
A2	440+76.62	13.00	940.64
Bk. W. Abut.	440+86.54	13.00	940.69

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	440+57.07	19.71	940.93
A1	440+66.94	19.71	940.98
A2	440+76.82	19.28	941.00
Bk. W. Abut.	440+86.71	19.28	941.05



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 056-0091**

SHEET NO. 7 OF 22 SHEETS

F.A.P. RTE. 303	SECTION 132B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 52
CONTRACT NO. 60I29			ILLINOIS FED. AID PROJECT	

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+74.30	-18.70	939.31
A3	441+84.42	-18.70	939.36
A4	441+94.56	-19.12	939.38
End E. Appr. Pav't.	442+04.67	-19.12	939.43

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+74.15	-13.00	939.63
A3	441+84.23	-13.00	939.68
A4	441+94.32	-13.00	939.73
End E. Appr. Pav't.	442+04.39	-13.00	939.78

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+73.85	-1.71	940.28
A3	441+83.86	-1.71	940.33
A4	441+93.88	-1.71	940.38
End E. Appr. Pav't.	442+03.88	-1.71	940.43

Ⓞ ROADWAY & P.G.

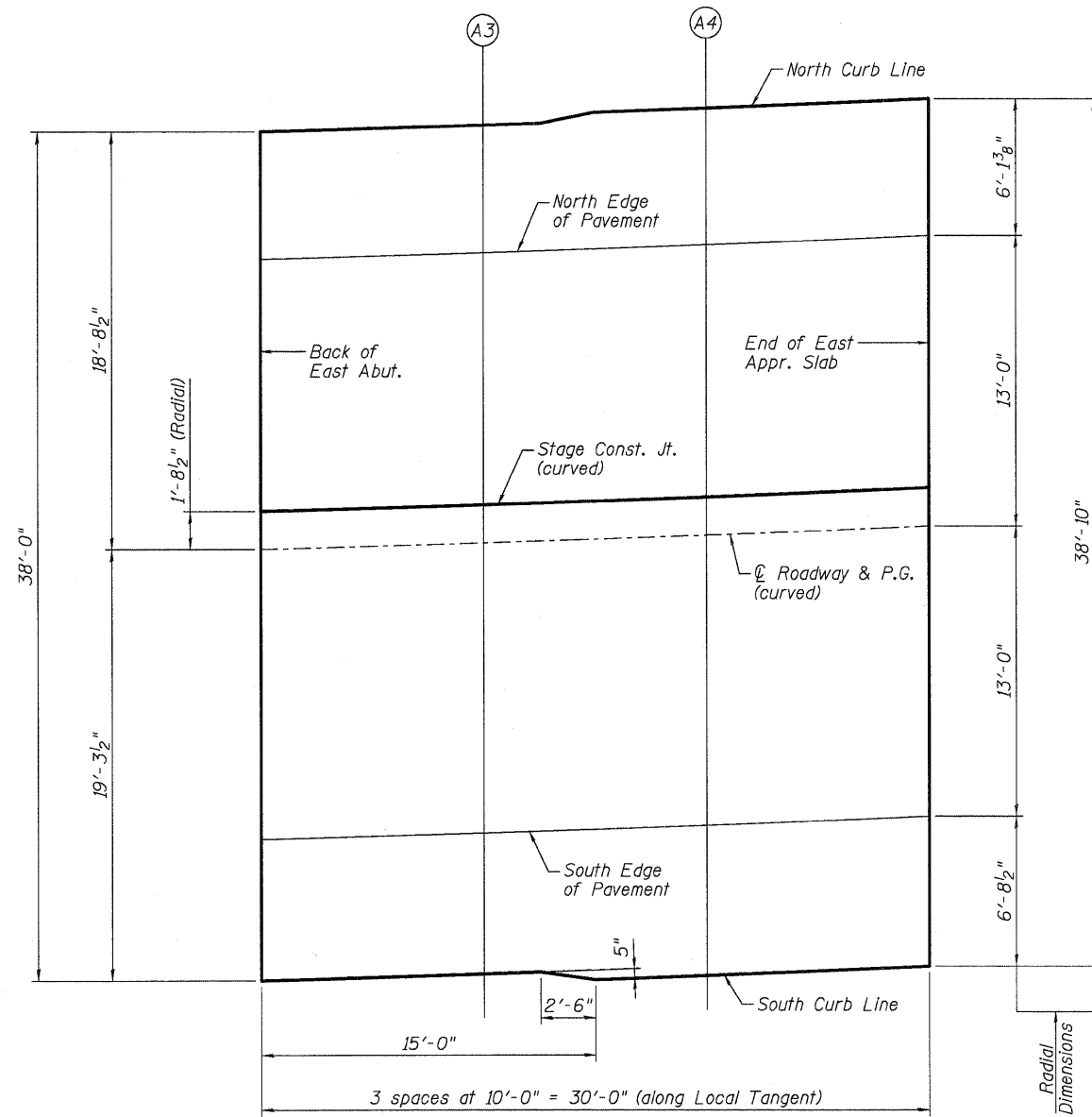
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+73.80	0.00	940.38
A3	441+83.80	0.00	940.43
A4	441+93.81	0.00	940.48
End E. Appr. Pav't.	442+03.80	0.00	940.53

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+73.46	13.00	941.12
A3	441+83.38	13.00	941.17
A4	441+93.31	13.00	941.22
End E. Appr. Pav't.	442+03.22	13.00	941.27

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	441+73.29	19.28	941.48
A3	441+83.18	19.28	941.53
A4	441+93.06	19.71	941.61
End E. Appr. Pav't.	442+02.93	19.71	941.66



PLAN

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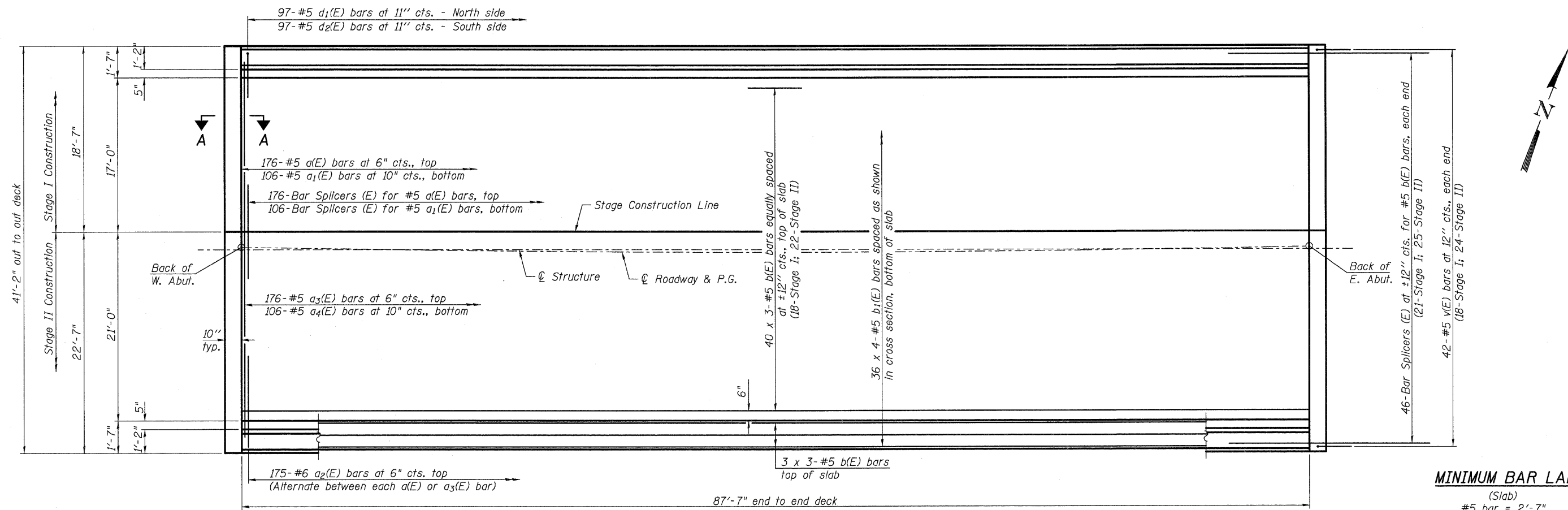
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-0091**

SHEET NO. 8 OF 22 SHEETS

F.A.P. RTE. 303	SECTION 132B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 53
				CONTRACT NO. 60I29
ILLINOIS FED. AID PROJECT				

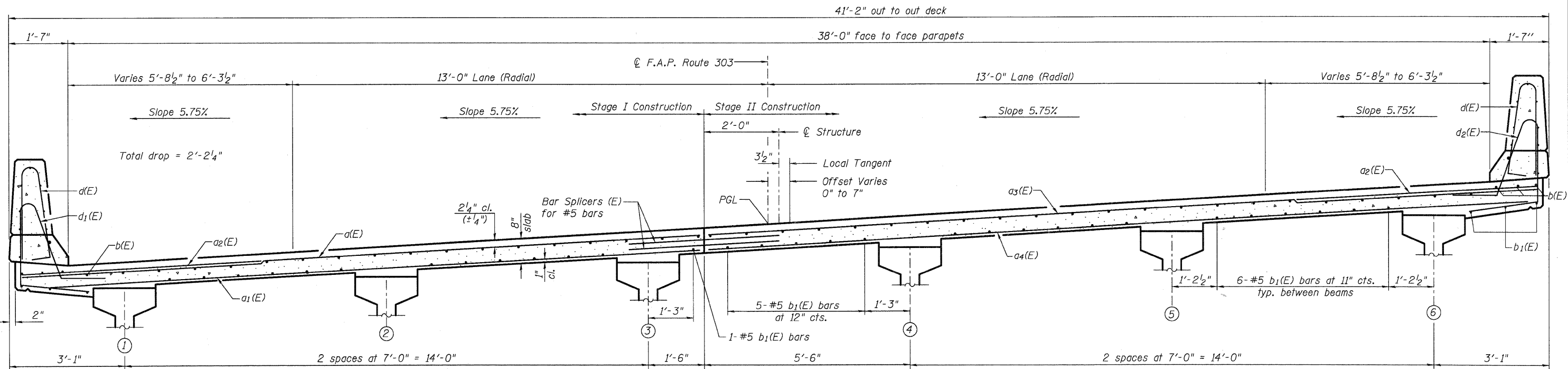


PLAN

MINIMUM BAR LAP

(Slab)
#5 bar = 2'-7"

Notes:
See sheet 10 of 22 for superstructure details and Bill of Material.
For Section A-A and diaphragm details see sheet 13 of 22.
Bars indicated thus 40 x 3-#5 etc. indicates 40 lines of bars with 3 lengths per line.
See sheet 10 of 22 for parapet reinforcement.



CROSS SECTION
(Looking East)

FILE NAME = F:\CBBEL WEST Project\056-091-0147_IL173A\Structure\1\056-091-0147-Super.dgn

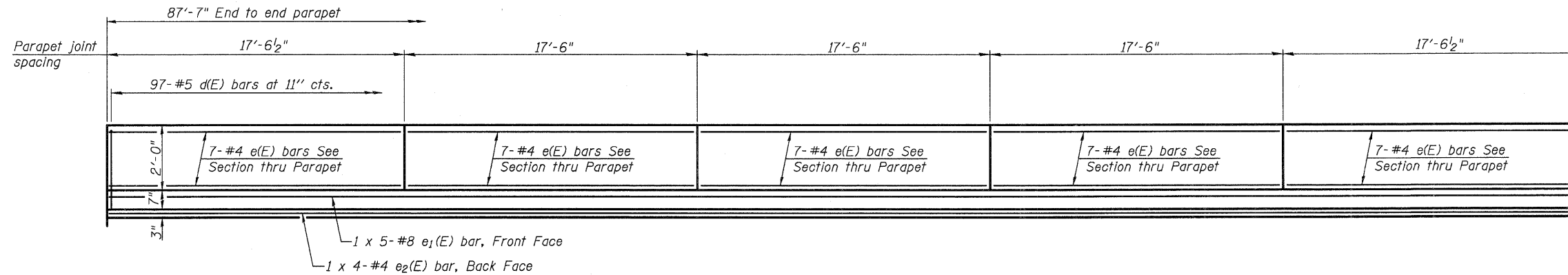
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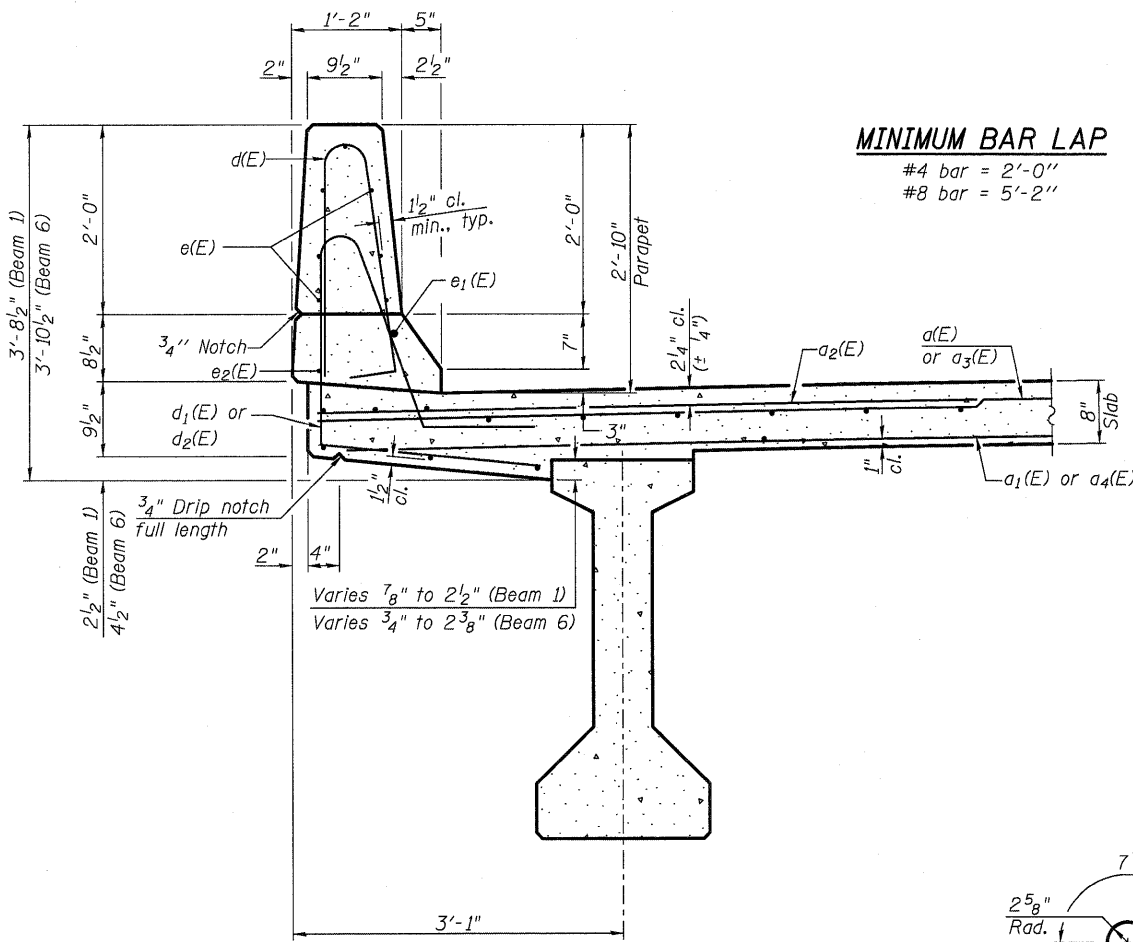
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 056-0091
SHEET NO. 9 OF 22 SHEETS

F.A.P. RTE. 303	SECTION 132B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 54
			CONTRACT NO. 60I29	
ILLINOIS FED. AID PROJECT				



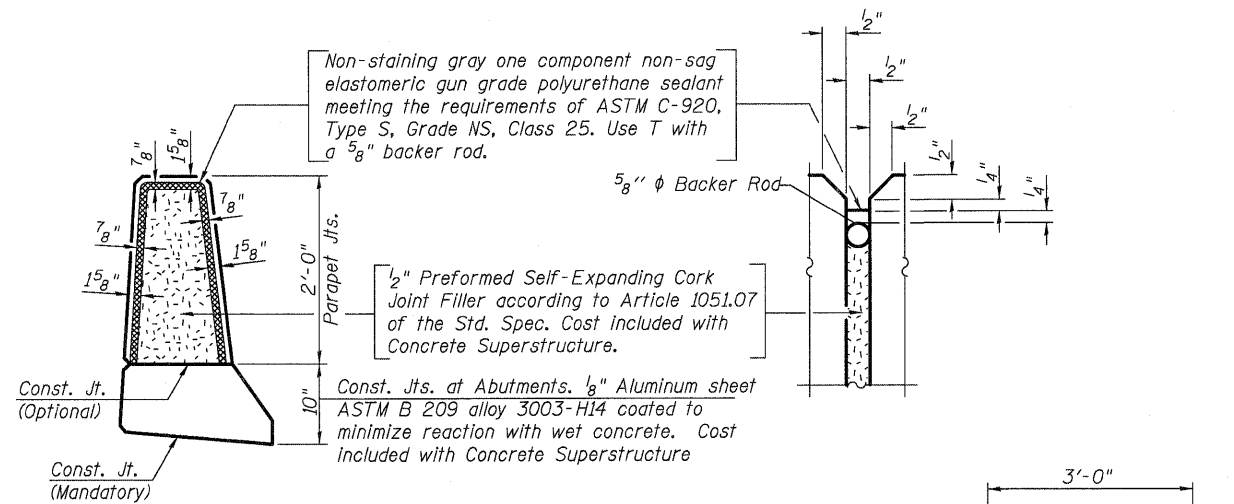
INSIDE ELEVATION OF PARAPET



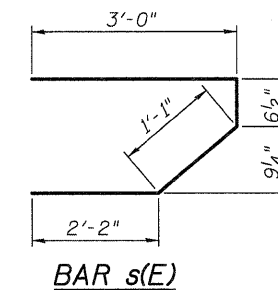
SECTION THRU PARAPET

MINIMUM BAR LAP

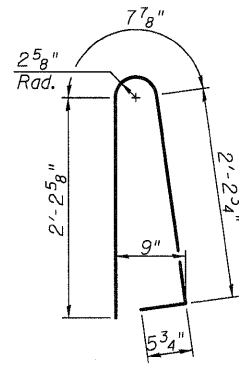
#4 bar = 2'-0"
#8 bar = 5'-2"



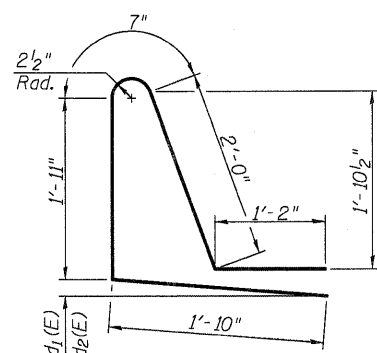
PARAPET JOINT DETAILS



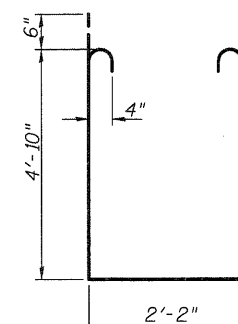
BAR s(E)



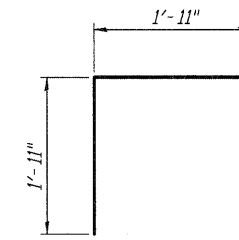
BAR d(E)



BARS d1(E) & d2(E)



BAR s1(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	176	#5	18'-1"	—
a1(E)	106	#5	17'-6"	—
a2(E)	350	#6	6'-6"	—
a3(E)	176	#5	22'-1"	—
a4(E)	106	#5	21'-6"	—
b(E)	138	#5	30'-11"	—
b1(E)	144	#5	23'-10"	—
d(E)	194	#5	5'-7"	┘
d1(E)	97	#5	7'-6"	┘
d2(E)	97	#5	7'-6"	┘
e(E)	70	#4	17'-3"	—
e1(E)	10	#8	21'-8"	—
e2(E)	8	#4	23'-5"	—
m(E)	10	#6	18'-4"	—
m1(E)	12	#6	10'-4"	—
m2(E)	10	#6	4'-11"	—
m3(E)	4	#6	1'-11"	—
m4(E)	10	#6	22'-4"	—
m5(E)	2	#6	4'-4"	—
m6(E)	8	#6	8'-1"	—
m7(E)	4	#6	6'-6"	—
s(E)	72	#5	6'-10"	┘
s1(E)	72	#4	12'-10"	┘
v(E)	84	#5	3'-10"	┘
Reinforcement Bars, Epoxy Coated			Pound	29,790
Concrete Superstructure			Cu. Yd.	148.9

Bars indicated thus 1 x 5 - #8 etc. indicates 1 line of bars with 5 lengths per line.

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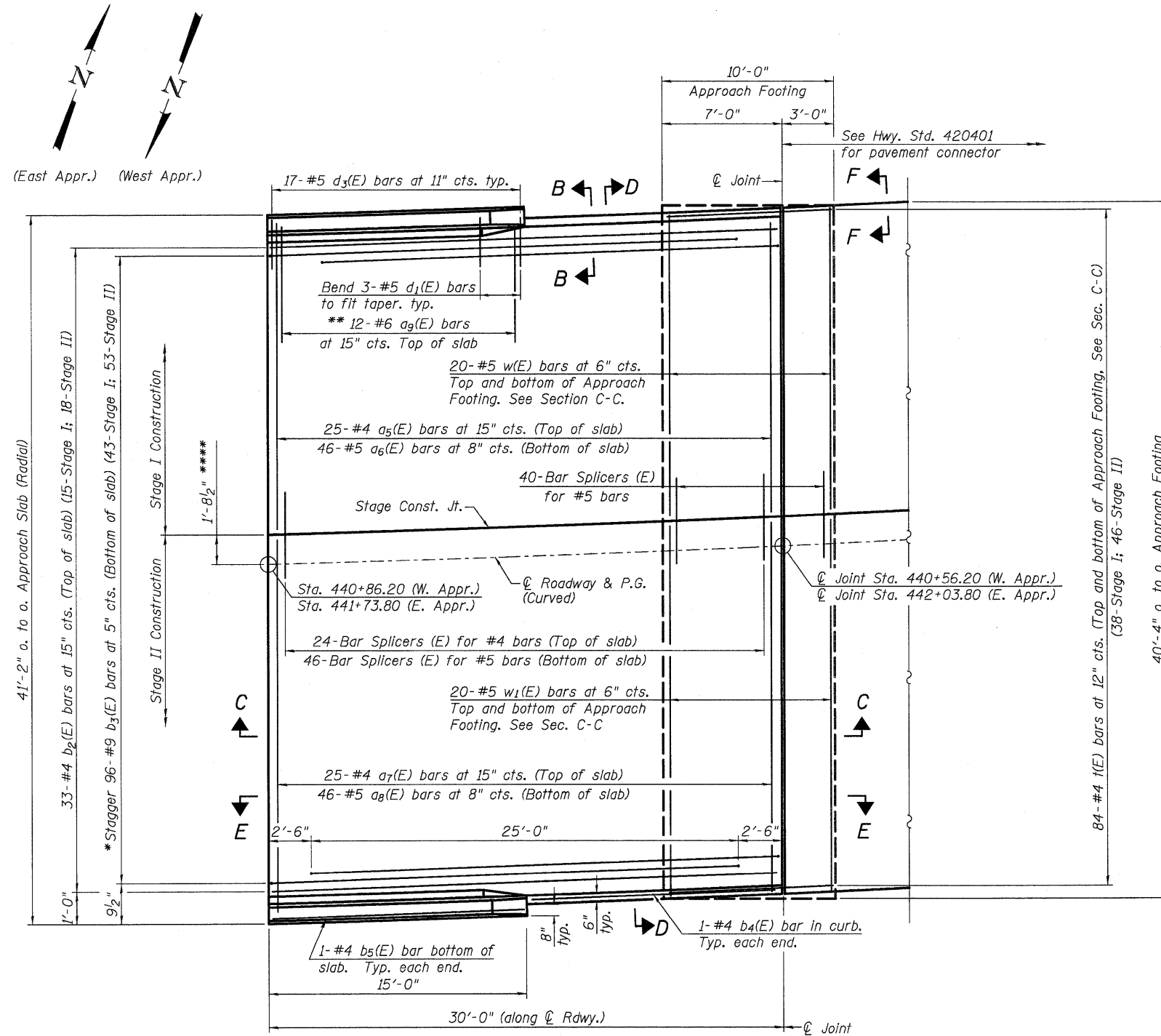
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO. 056-0091

SHEET NO. 10 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	55
			CONTRACT NO. 60129	
ILLINOIS FED. AID PROJECT				

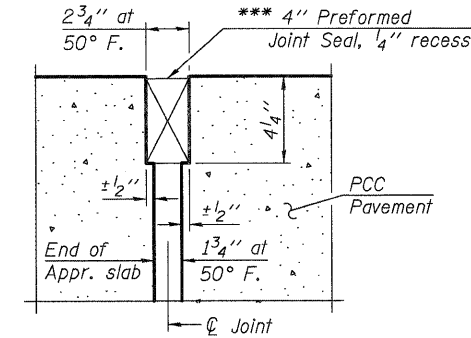
Notes:
See sheet 12 of 22 for Sections C-C & D-D and View E-E.
a₅(E) thru a₉(E) bar spacings measured along ϕ Rdwy.



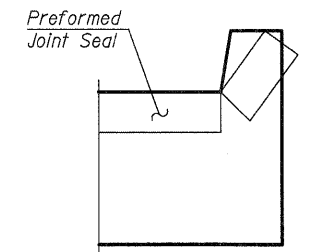
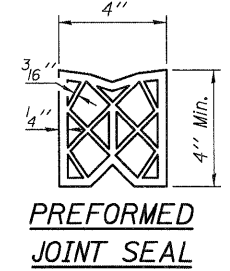
PLAN

* Tilt #9 b₃(E) bars as required to maintain clearance.
** Space between a(E) bars, typ. ea. parapet.
**** Stage Construction Line maintains a 1'-8 1/2" radial offset from the centerline

*** Cost included with Concrete Superstructure.

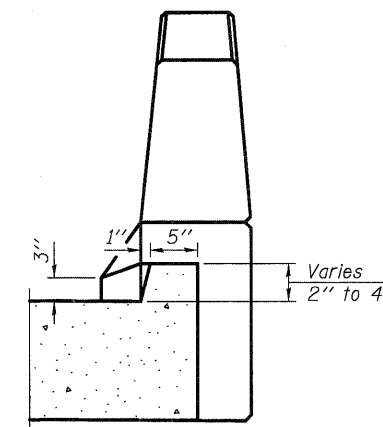


DETAIL A



VIEW F-F

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



VIEW B-B

(Sheet 1 of 2)

FILE NAME = P:\CBBEL_MEST_Proj\2009\05\03-0147_IL173\Structural\0568091-60129-011-Aps\Slab01.dgn

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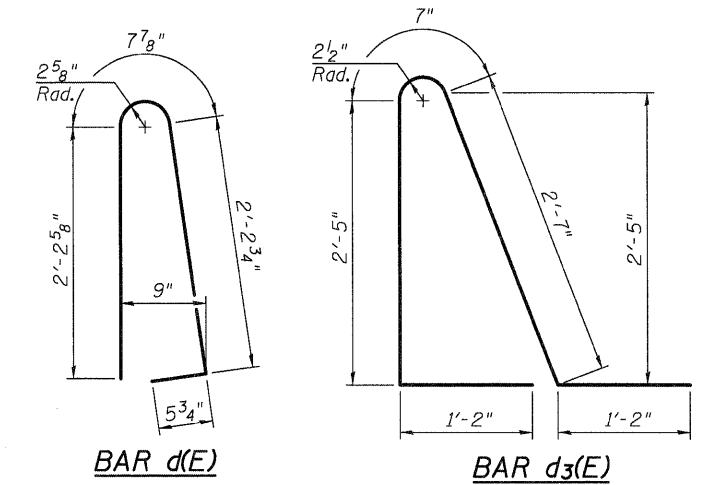
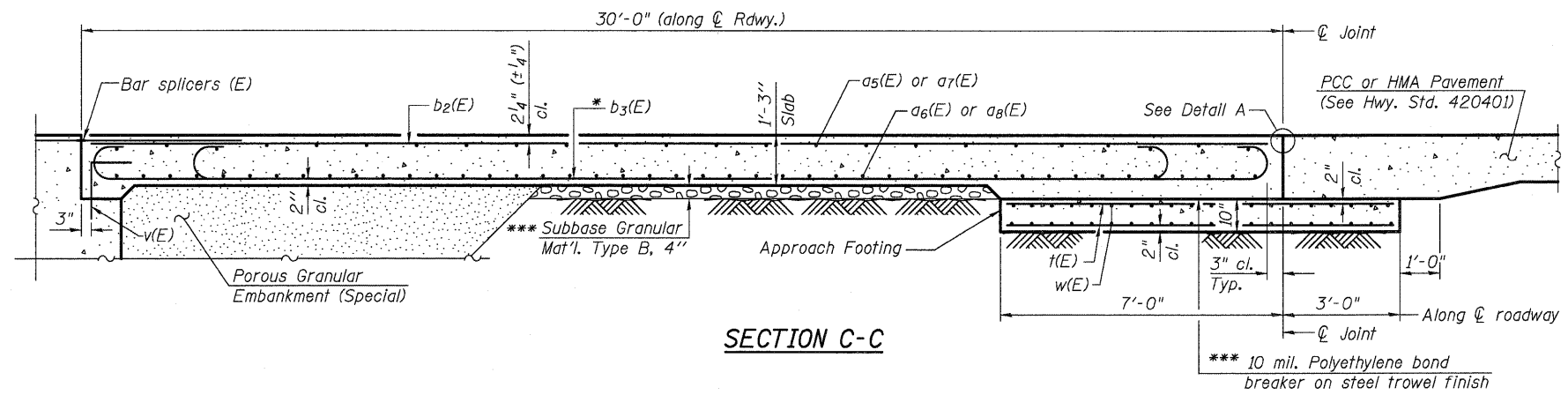
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 056-0091

SHEET NO. 11 OF 22 SHEETS

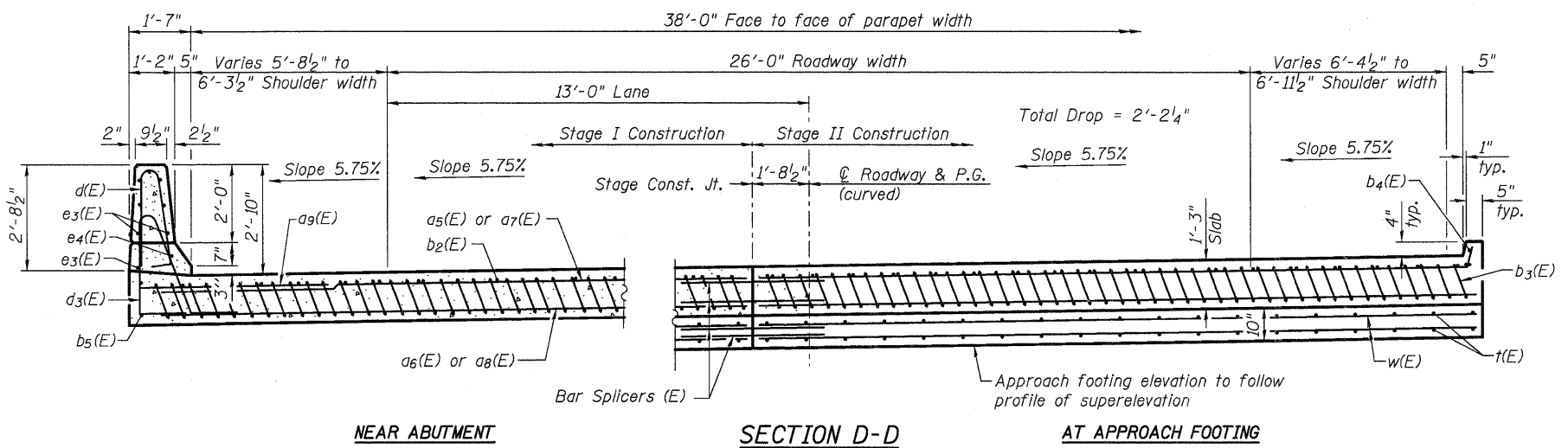
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	56
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	

Notes:

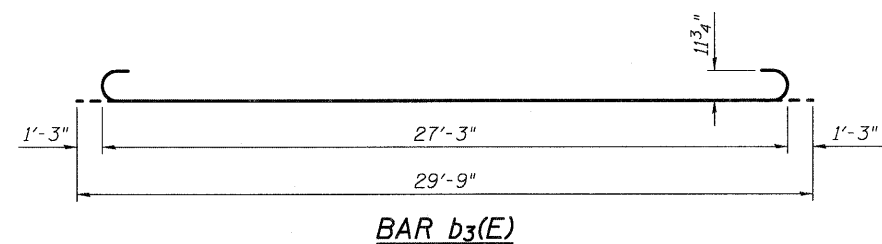
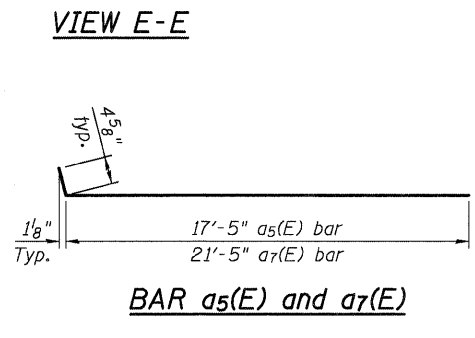
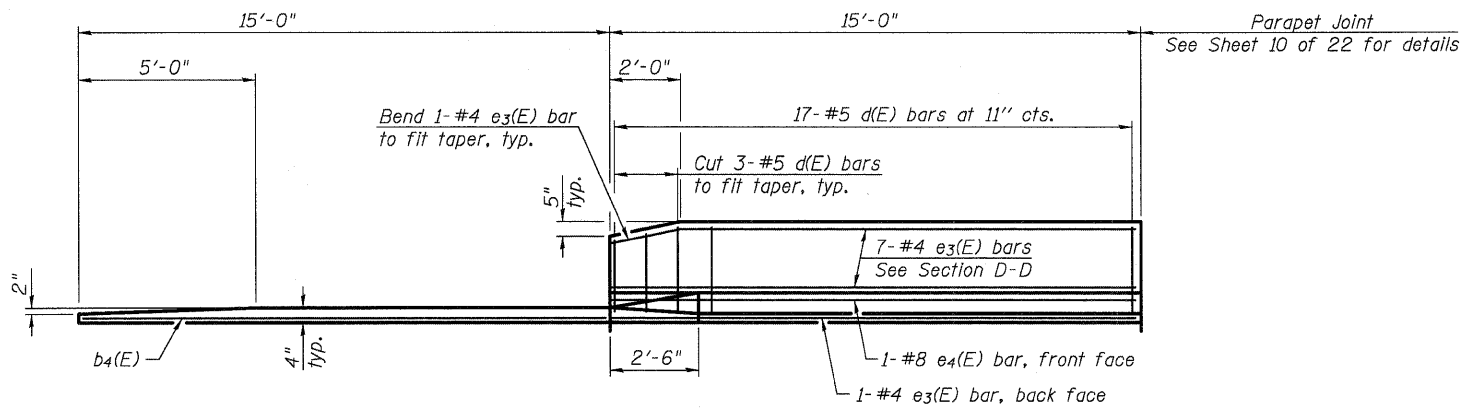
See sheet 11 of 22 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 10 of 22.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 20 of 22.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 22.
 For additional parapet details, see sheet 10 of 22.



* Tilt #9 b3(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



Horizontal dimensions are radial
 (See Plan for dimensions not shown)



TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	50	#4	17'-10"	—
a6(E)	92	#5	17'-7"	—
a7(E)	50	#4	21'-10"	—
a8(E)	92	#5	21'-7"	—
a9(E)	48	#6	6'-6"	—
b2(E)	66	#4	29'-8"	—
b3(E)	192	#9	29'-9"	—
b4(E)	4	#4	14'-8"	—
b5(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	▲
d3(E)	68	#5	7'-11"	▲
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	168	#4	9'-8"	—
w(E)	80	#5	17'-7"	—
w1(E)	80	#5	21'-7"	—
Concrete Superstructure		Cu. Yd.	119.5	
Concrete Structures		Cu. Yd.	24.9	
Reinforcement Bars, Epoxy Coated		Pound	32,140	

(Sheet 2 of 2)

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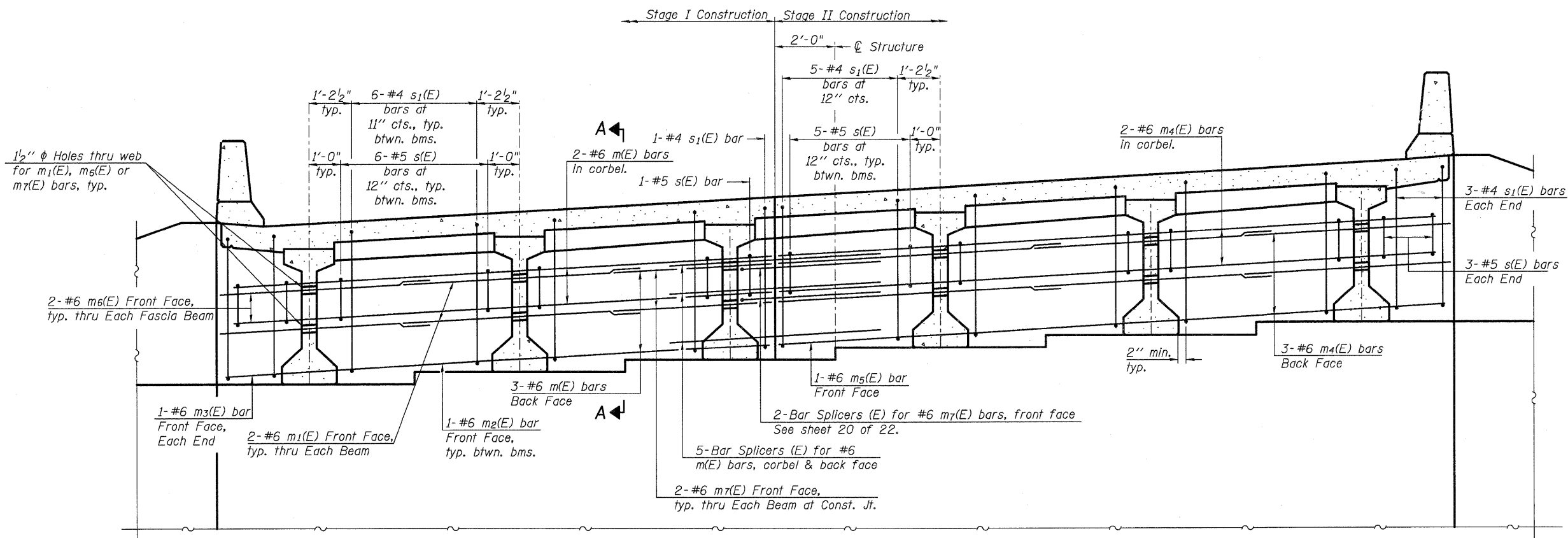
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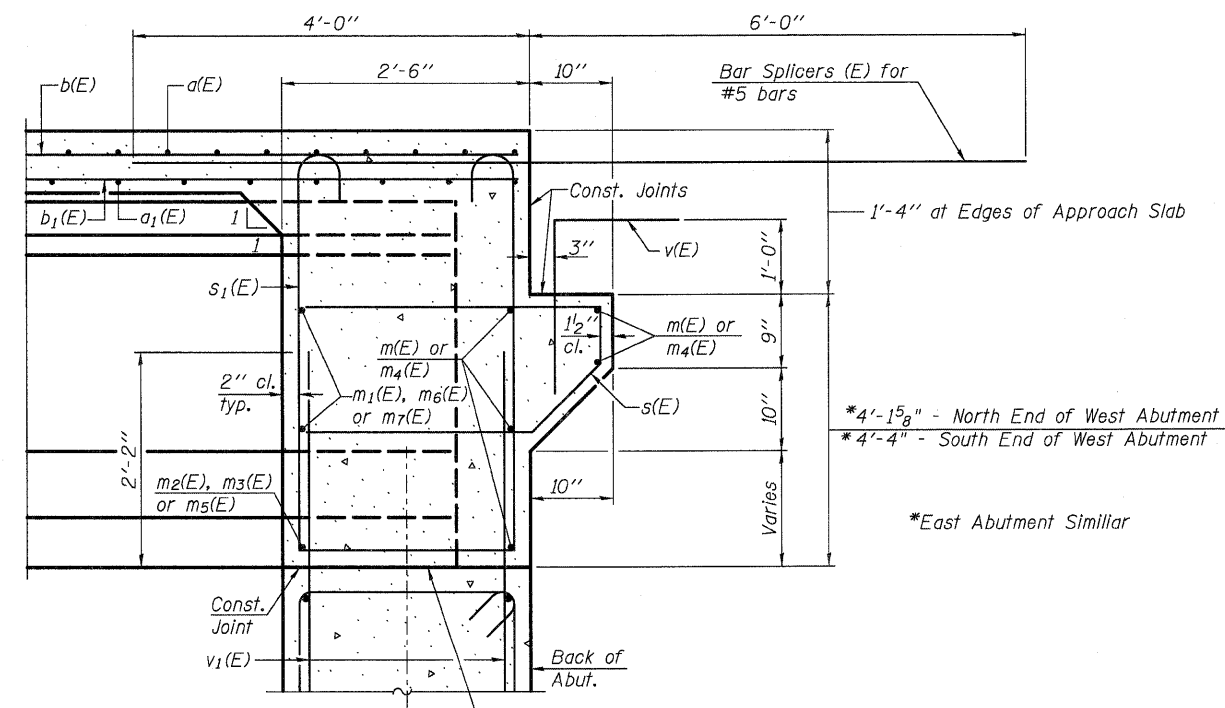
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 056-0091
 SHEET NO. 12 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	57
			CONTRACT NO. 60129	
ILLINOIS FED. AID PROJECT				



DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP
#6 bar = 3'-4"



SECTION A-A

Dimensions at right angles to abutment, except as shown.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 22.
Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 22.
For details of bars s(E) and s1(E) see sheet 10 of 22.
The s(E) and s1(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.

Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

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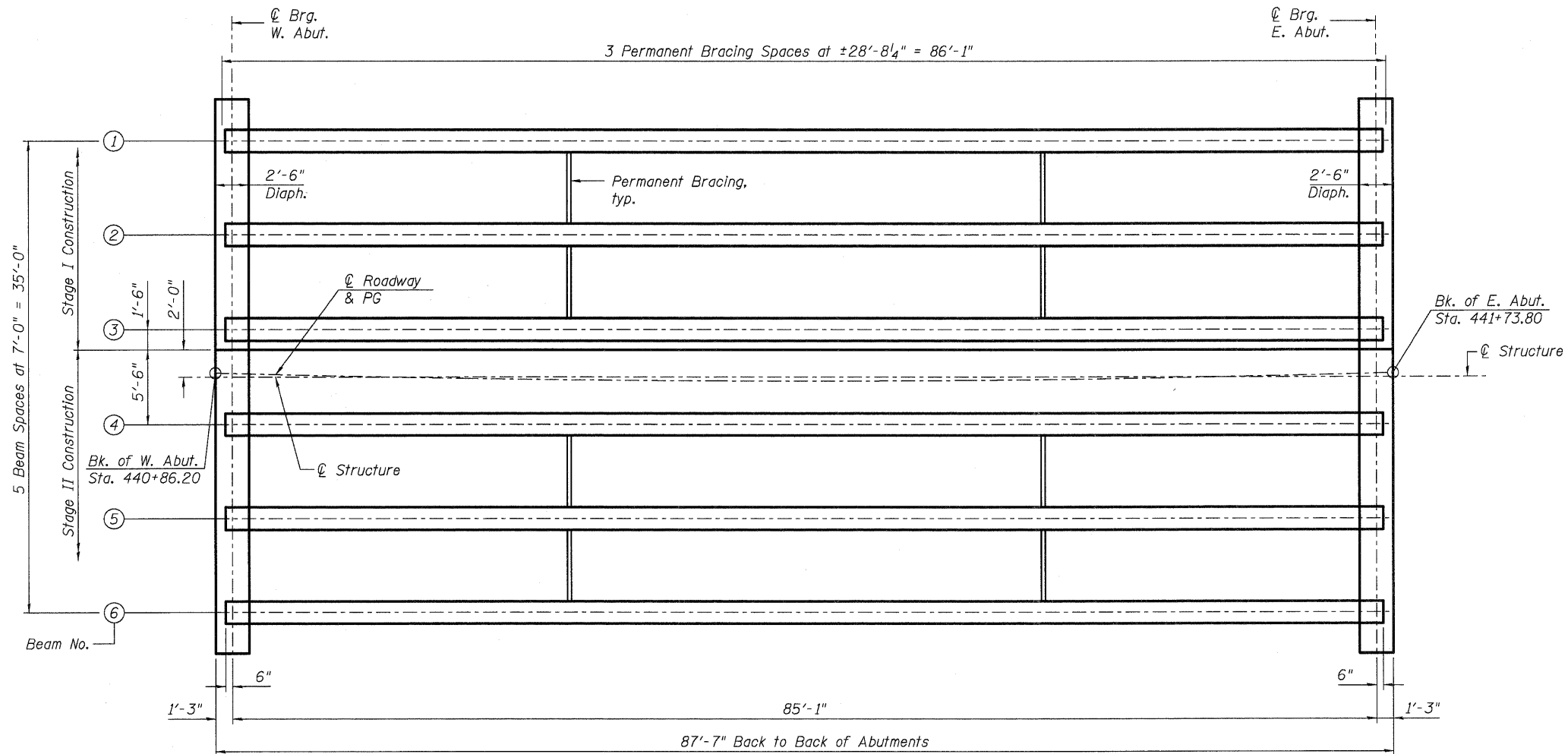
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DIAPHRAGM DETAILS
STRUCTURE NO. 056-0091

SHEET NO. 13 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	58
CONTRACT NO. 60I29				
ILLINOIS FED. AID PROJECT				



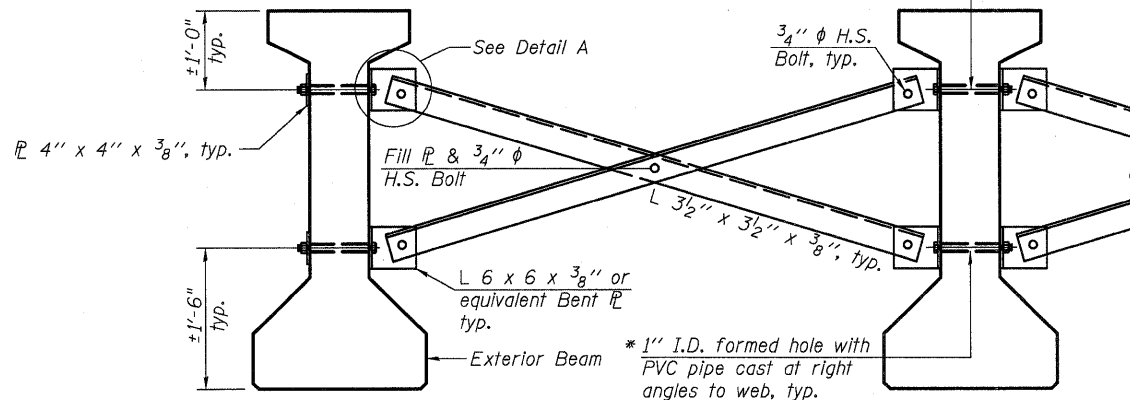
FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in ⁴)	213,715
I'	(in ⁴)	518,010
S _b	(in ³)	8,559
S _b '	(in ³)	12,882
S _t	(in ³)	7,362
S _t '	(in ³)	37,569
DC1	(k/')	1.36
M _{DC1}	(k)	12.31
DC2	(k/')	0.15
M _{DC2}	(k)	1.36
DW	(k/')	0.35
M _{DW}	(k)	3.17
M _{L + IM}	(k)	1,417

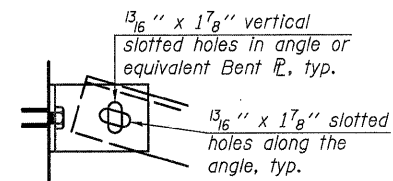
INTERIOR BEAM REACTION TABLE		
		Abut.
R _{DC1}	(k)	57.9
R _{DC2}	(k)	6.4
R _{DW}	(k)	14.9
R _{L + IM}	(k)	83.6
R _{Total}	(k)	162.8

I: Non-composite moment of inertia of beam section (in.⁴).
 I': Composite moment of inertia of beam section (in.⁴).
 S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
 S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

* Fabricator shall locate to miss strands within permissible tolerances.
 3/4" φ A307 Bolts with lock nuts., typ.
 Bolts through the concrete web shall be tightened to snug tight only.



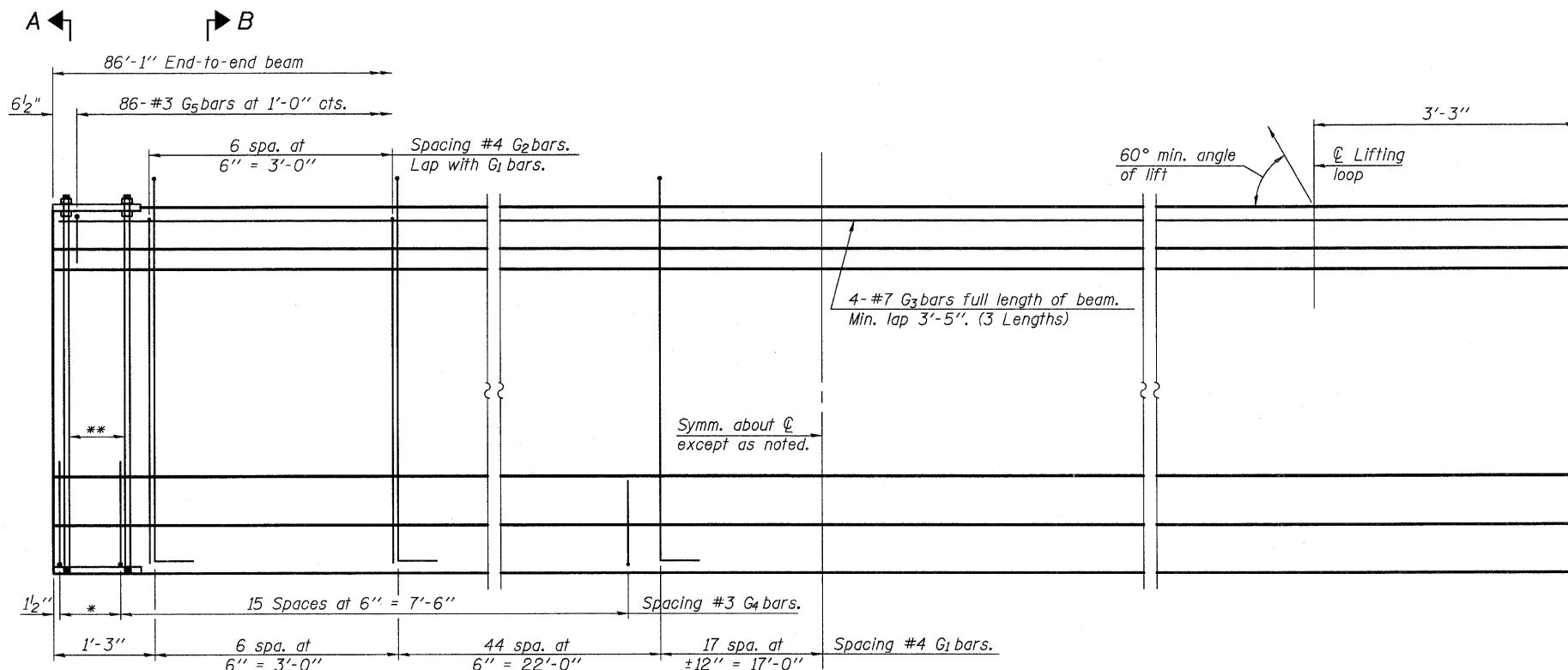
PERMANENT BRACING DETAILS FOR 54" PPC I-BEAMS



DETAIL A

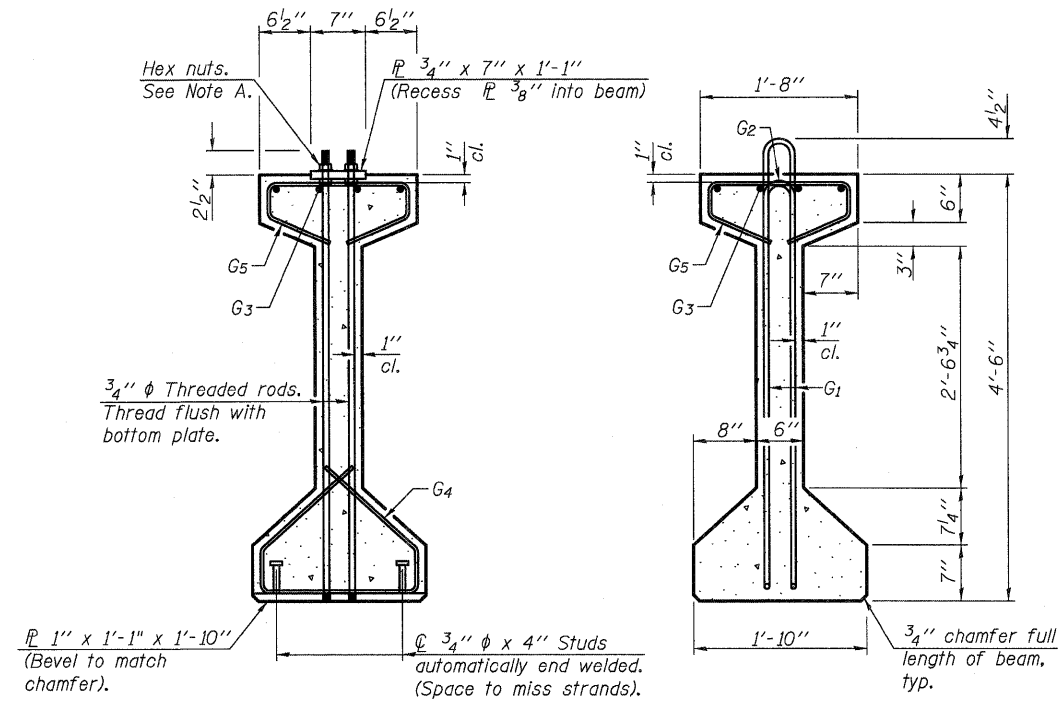
Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 15/16" φ unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts shall be galvanized according to AASHTO M232.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

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ELEVATION OF BEAM
(Showing reinforcement & dimensions)

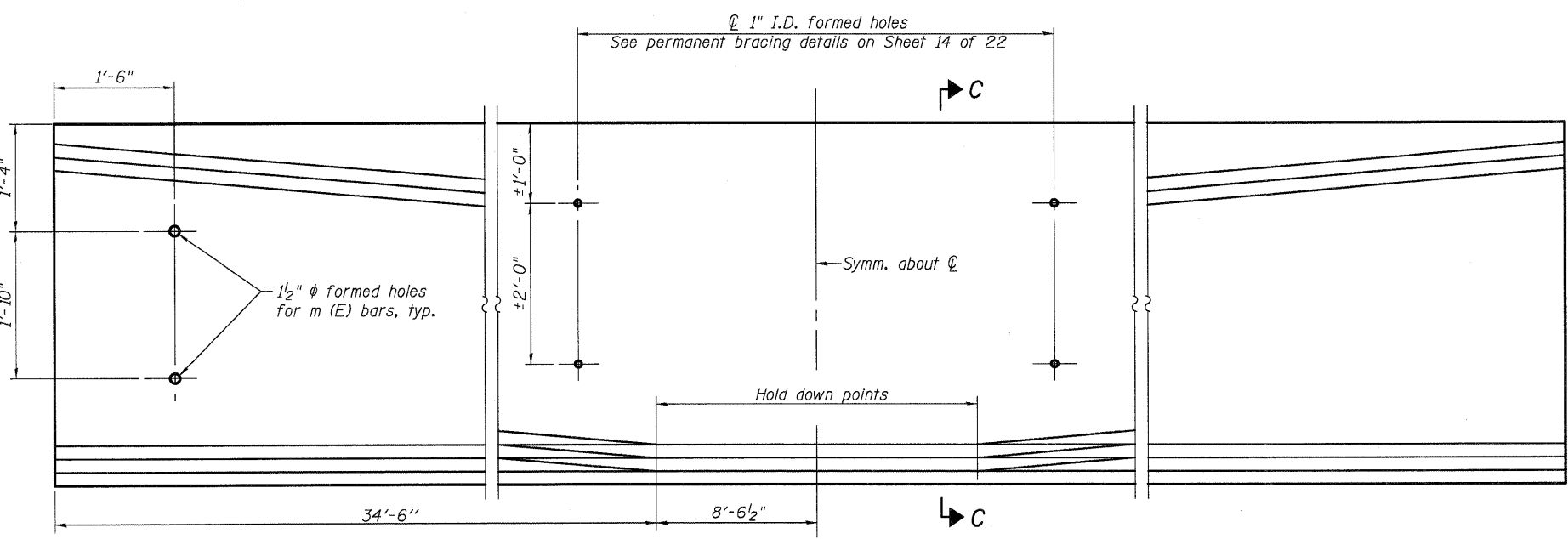
* 3 spaces at 3" = 9".
** 4-3/4" φ threaded dowel rods at 3" cts., Each Face.



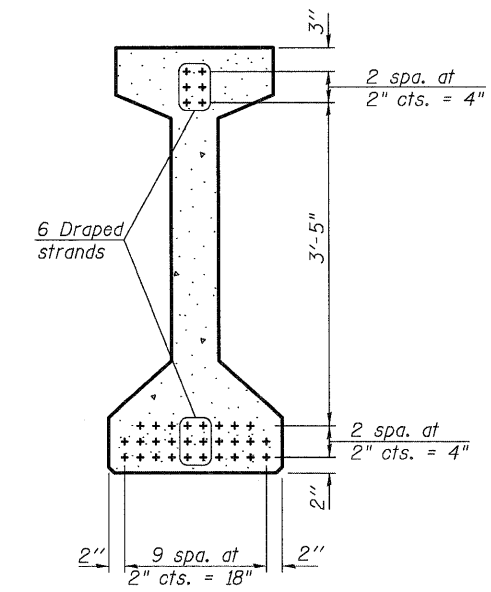
SECTION A-A

SECTION B-B

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G ₁	135	#4	10'-5"	∩L
G ₂	14	#4	8'-8"	∩
G ₃	12	#7	30'-11"	—
G ₄	38	#3	4'-11"	∩
G ₅	86	#3	3'-5"	∩

***For information only
Notes:
See sheet 16 of 22 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

FILE NAME = P:\CBBEL\WEST Projects\2009\05-0147_IL173\Structural\Drawings\056-0091-60129-015-54\PPC-I-beam.dgn

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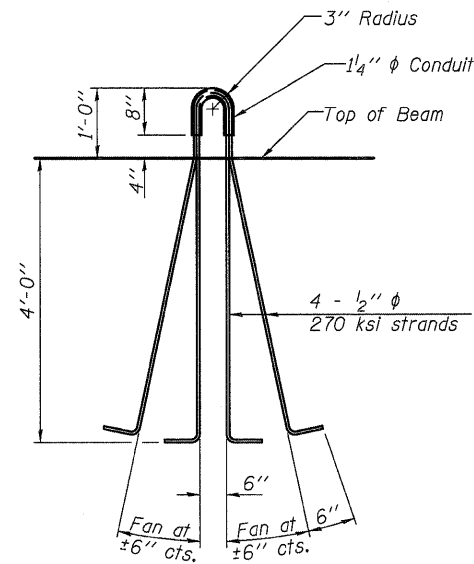
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**54" PPC I-BEAM
STRUCTURE NO. 056-0091**
SHEET NO. 15 OF 22 SHEETS

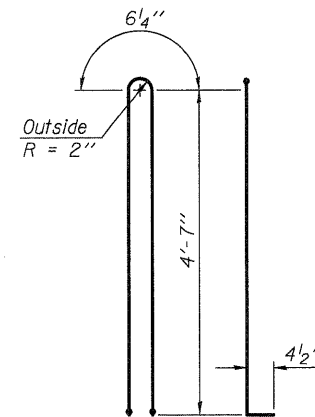
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	60
				CONTRACT NO. 60129
ILLINOIS FED. AID PROJECT				

NOTES

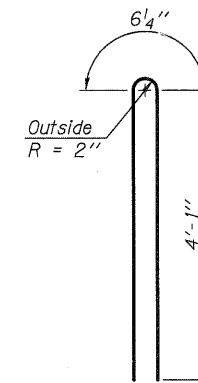
Inserts for $\frac{3}{4}$ " ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.
 Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
 A minimum $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.
 The top and bottom plates shall be AASHTO M270 Grade 50.
 The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
 Threaded rods shall be ASTM F 1554 Grade 55.



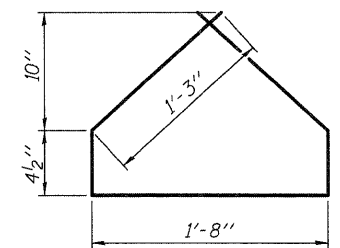
LIFTING LOOP DETAIL



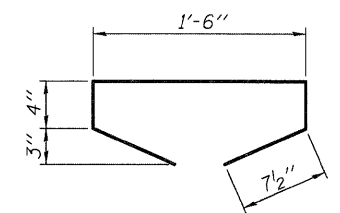
BAR G1



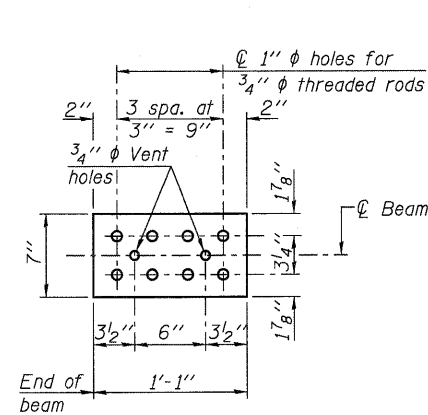
BAR G2



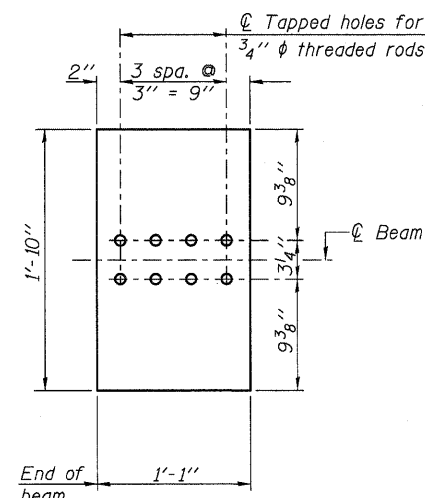
BAR G4



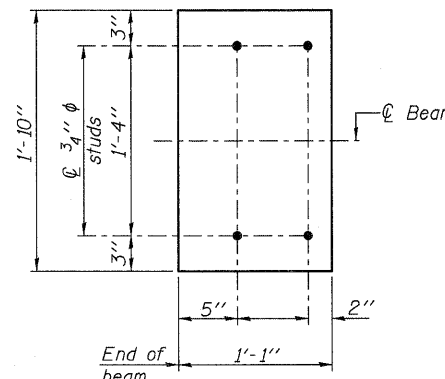
BAR G5



TOP PLATE



BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	516.5

FILE NAME = PACBBEL - WEST - Projects\2009\05-0147 - ILL73Structural\Drawings\0568091-60I29-016-54.ppc-1-beam.dwg

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

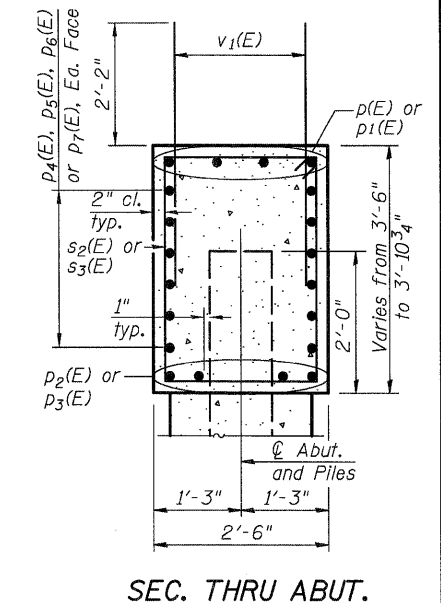
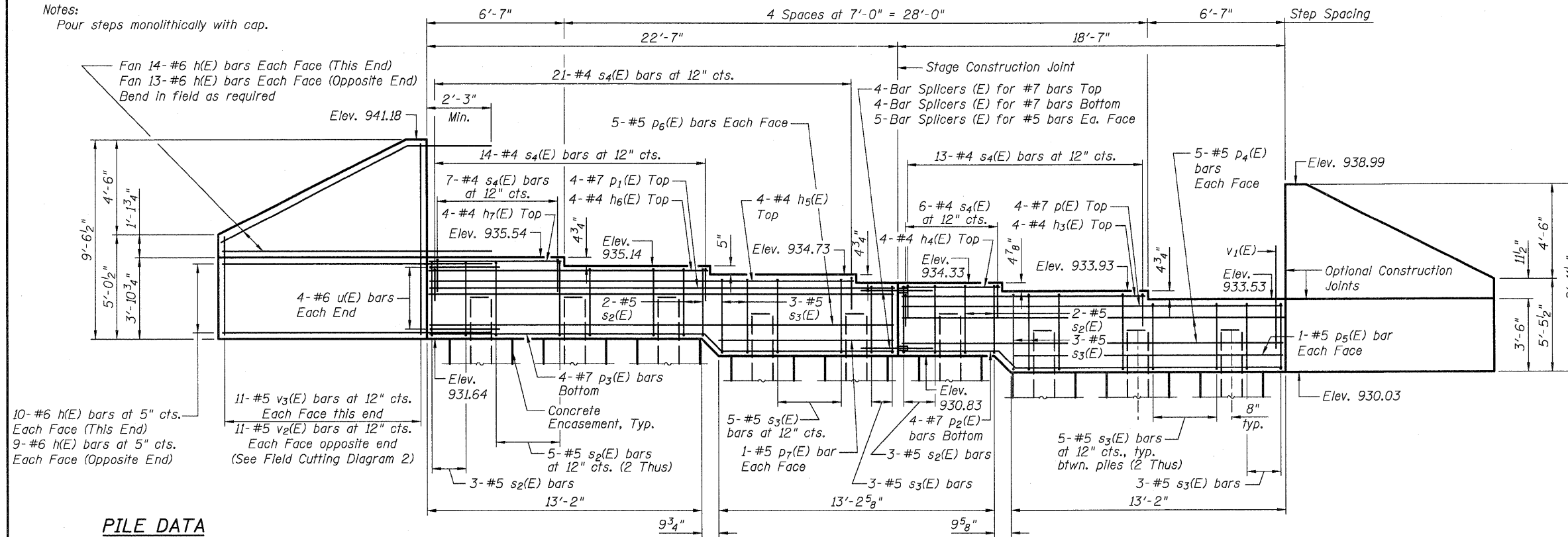
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PLOT SCALE =	DRAWN - DLS	REVISED -
PLOT DATE =	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" PPC I-BEAM DETAILS
STRUCTURE NO. 056-0091
 SHEET NO. 16 OF 22 SHEETS

F.A.P. RTE. 303	SECTION 1328-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 61
				CONTRACT NO. 60I29
ILLINOIS FED. AID PROJECT				

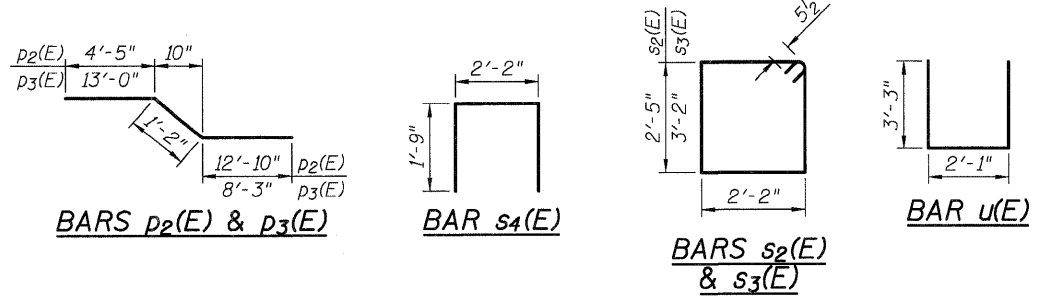
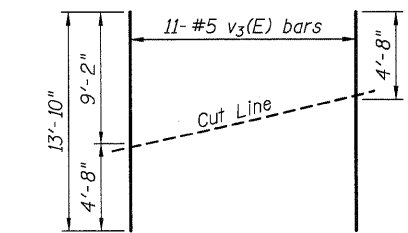
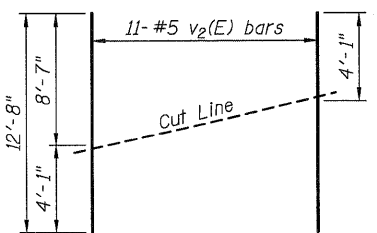
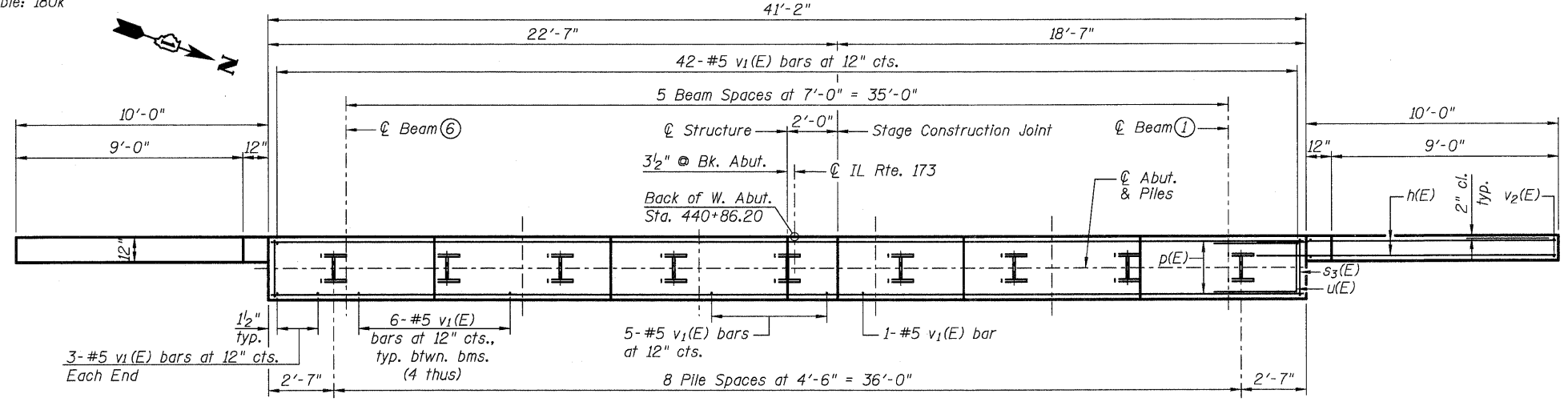
Notes:
Pour steps monolithically with cap.



PILE DATA
Type: HP12x53
Maximum Nominal Required Bearing: 360k
Factored Resistance Available: 180k
Est. Length: 54'
No. Production Piles: 8
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	92	#6	13'-4"	—
h3(E)	4	#4	11'-8"	—
h4(E)	4	#4	4'-8"	—
h5(E)	4	#4	20'-2"	—
h6(E)	4	#4	13'-3"	—
h7(E)	4	#4	6'-3"	—
p(E)	4	#7	18'-3"	—
p1(E)	4	#7	22'-3"	—
p2(E)	4	#7	18'-5"	—
p3(E)	4	#7	22'-5"	—
p4(E)	10	#5	18'-3"	—
p5(E)	2	#5	12'-10"	—
p6(E)	10	#5	22'-3"	—
p7(E)	2	#5	8'-3"	—
s2(E)	20	#5	10'-1"	□
s3(E)	27	#5	11'-7"	□
s4(E)	61	#4	5'-8"	□
u(E)	8	#6	8'-7"	□
v1(E)	78	#5	4'-4"	—
v2(E)	11	#5	12'-8"	—
v3(E)	11	#5	13'-10"	—
Structure Excavation	Cu. Yd.		63	
Concrete Structures	Cu. Yd.		19.4	
Reinforcement Bars, Epoxy Coated	Pound		4,650	
Furnishing Steel Piles, HP12x53	Foot		432	
Test Pile Steel, HP12x53	Each		1	
Driving Piles	Foot		432	
Concrete Encasement	Cu. Yd.		3.1	
Porous Granular Embankment, Special	Cu. Yd.		102	



FIELD CUTTING DIAGRAM 1
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

FIELD CUTTING DIAGRAM 2
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.

For details of Bar Splicers, see sheet 20 of 22.
For details of piles and Concrete Encasement, see sheet 19 of 22.

FILE NAME = PACBBEL_MEST_Proj\2007\09-01\47_IL173\Structural\Drawings\056-0091-60123-017-WAbut.dgn



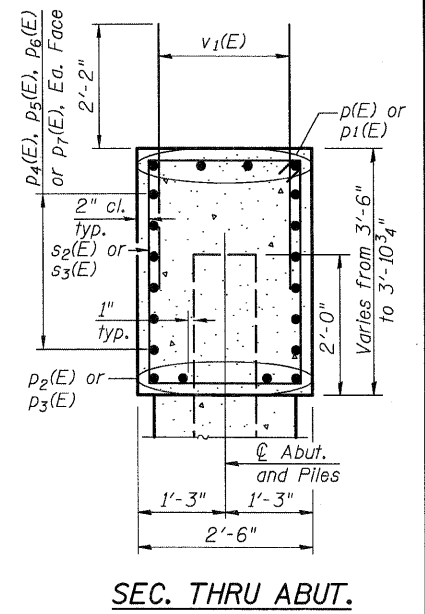
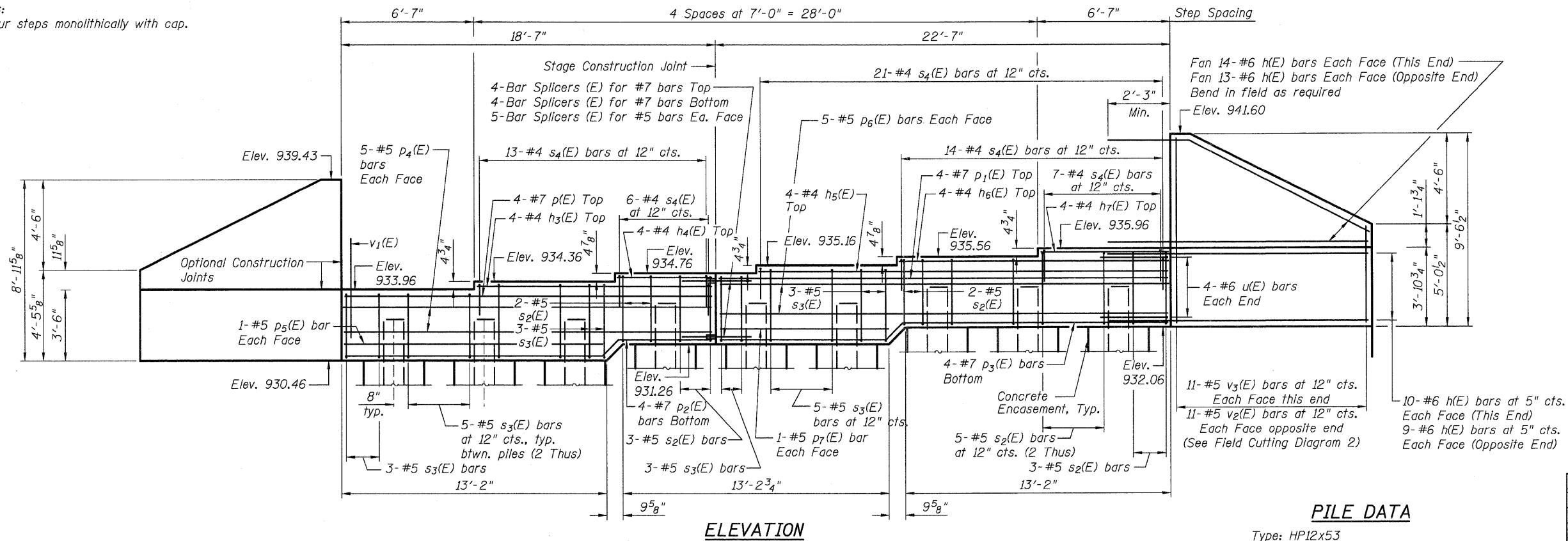
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FILE NAME =	CHECKED - DAZ	REVISED -
PLOT SCALE =	DRAWN - SAW	REVISED -
PLOT DATE =	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

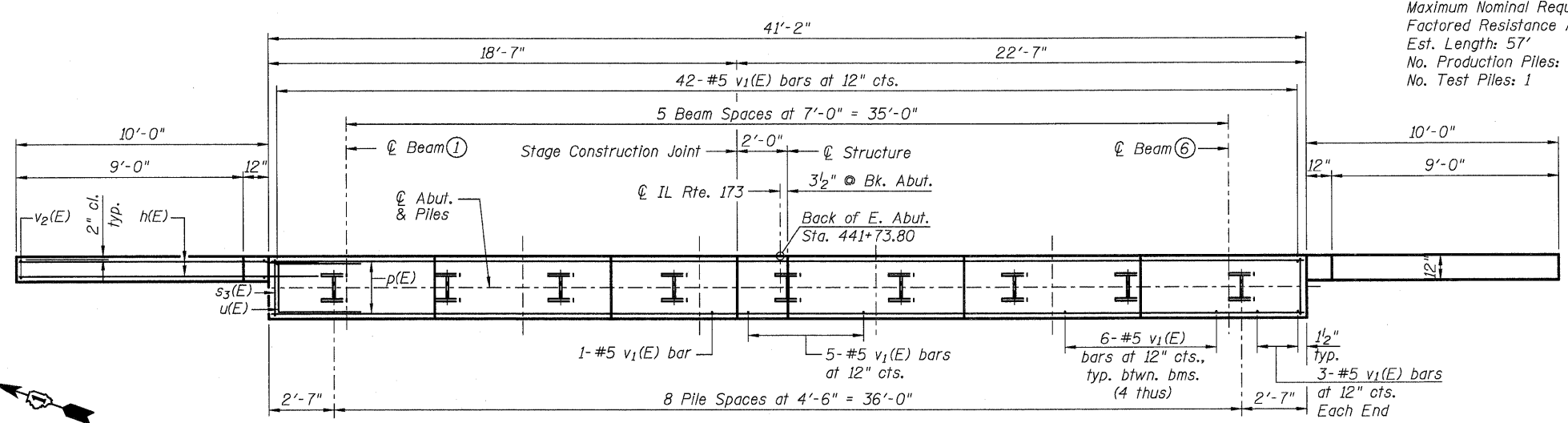
**WEST ABUTMENT
STRUCTURE NO. 056-0091**
SHEET NO. 17 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	62
				CONTRACT NO. 60129
ILLINOIS FED. AID PROJECT				

Notes:
Pour steps monolithically with cap.



SEC. THRU ABUT.



ELEVATION

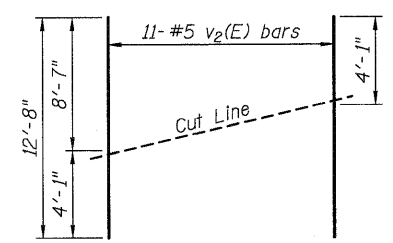
PLAN

PILE DATA

Type: HP12x53
Maximum Nominal Required Bearing: 360K
Factored Resistance Available: 180K
Est. Length: 57'
No. Production Piles: 8
No. Test Piles: 1

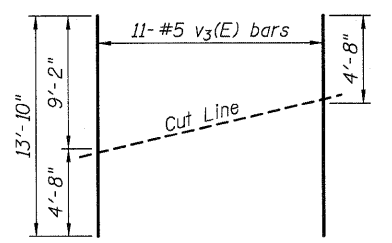
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	92	#6	13'-4"	
h3(E)	4	#4	11'-8"	
h4(E)	4	#4	4'-8"	
h5(E)	4	#4	20'-2"	
h6(E)	4	#4	13'-3"	
h7(E)	4	#4	6'-3"	
p(E)	4	#7	18'-3"	
p1(E)	4	#7	22'-3"	
p2(E)	4	#7	18'-5"	
p3(E)	4	#7	22'-5"	
p4(E)	10	#5	18'-3"	
p5(E)	2	#5	12'-10"	
p6(E)	10	#5	22'-3"	
p7(E)	2	#5	8'-3"	
s2(E)	20	#5	10'-1"	
s3(E)	27	#5	11'-7"	
s4(E)	61	#4	5'-8"	
u(E)	8	#6	8'-7"	
v1(E)	78	#5	4'-4"	
v2(E)	11	#5	12'-8"	
v3(E)	11	#5	13'-10"	
Structure Excavation		Cu. Yd.	59	
Concrete Structures		Cu. Yd.	19.4	
Reinforcement Bars, Epoxy Coated		Pound	4,650	
Furnishing Steel Piles, HP12x53		Foot	456	
Test Pile Steel, HP12x53		Each	1	
Driving Piles		Foot	456	
Concrete Encasement		Cu. Yd.	3.1	
Porous Granular Embankment, Special		Cu. Yd.	100	



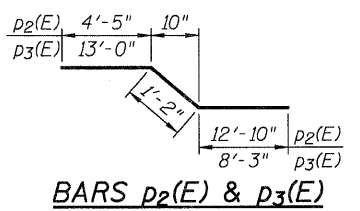
FIELD CUTTING DIAGRAM 1

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

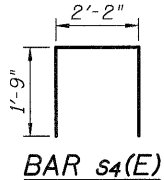


FIELD CUTTING DIAGRAM 2

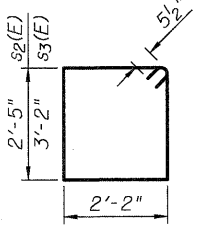
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



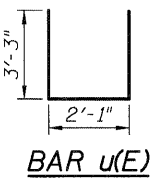
BARS p2(E) & p3(E)



BAR s4(E)



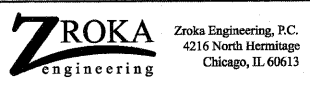
BARS s2(E) & s3(E)



BAR u(E)

For details of Bar Splicers, see sheet 20 of 22.
For details of piles and Concrete Encasement, see sheet 19 of 22.

FILE NAME = PACBBEL_MEST_Projects\2009\05-0147_IL173\Structural\Drawings\05660951-60129-018-Abut.dgn

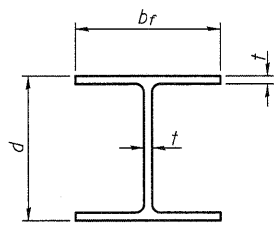


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FILE NAME =	CHECKED - DAZ	REVISED -
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PLOT DATE =	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

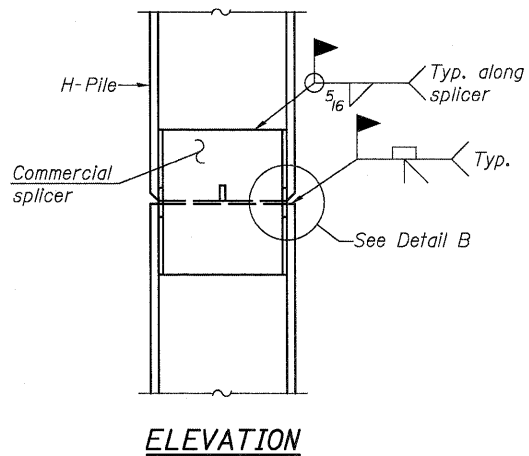
**EAST ABUTMENT
STRUCTURE NO. 056-0091**
SHEET NO. 18 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	63
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	

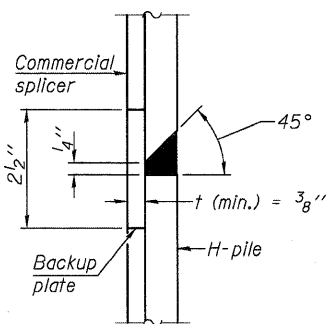


STEEL PILE TABLE

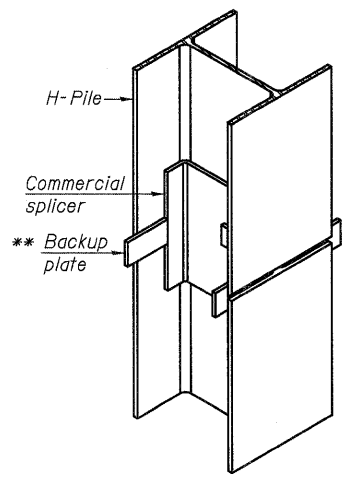
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

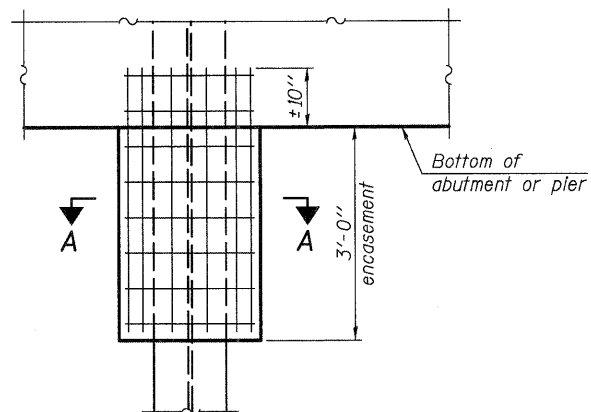


DETAIL "B"



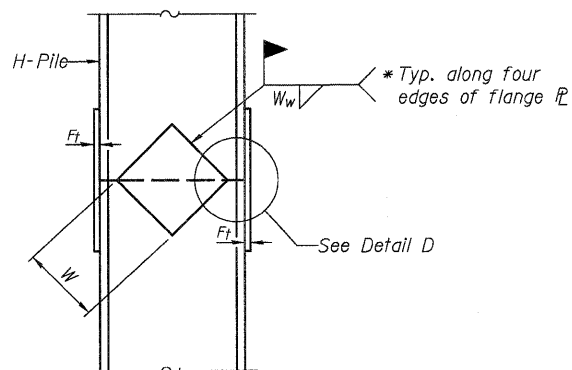
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



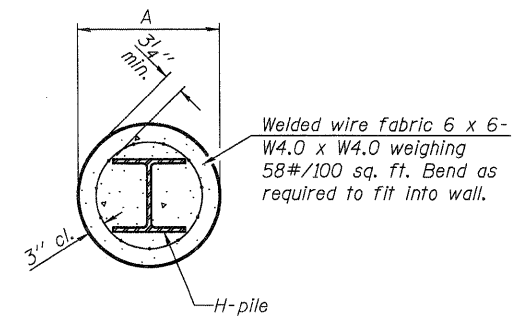
ELEVATION

PILE ENCASEMENT



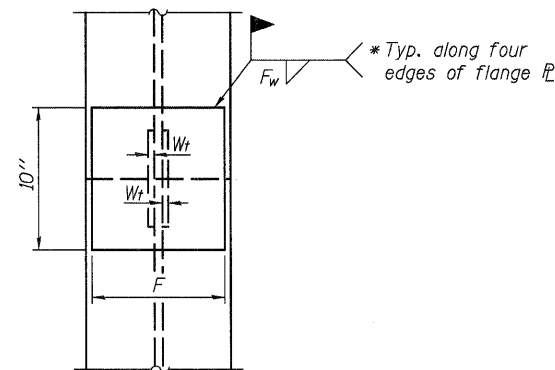
ELEVATION

WELDED PLATE FIELD SPLICE



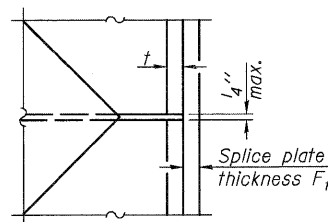
SECTION A-A

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

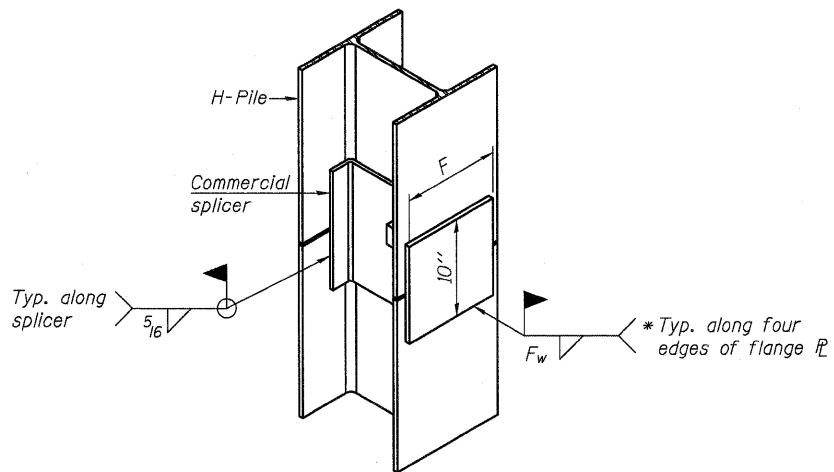


END VIEW

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



DETAIL D

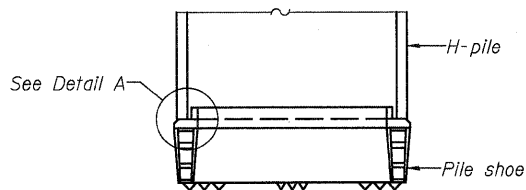


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

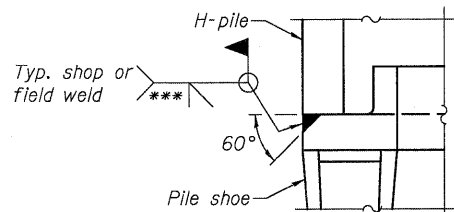
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT



F-HP 7-1-10

FILE NAME = PACBBEL_MEST_Proj\Projects\2009\05-0147_IL173\Structural\Drawings\0560091-60129-019-H-HP-01.dwg

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7700

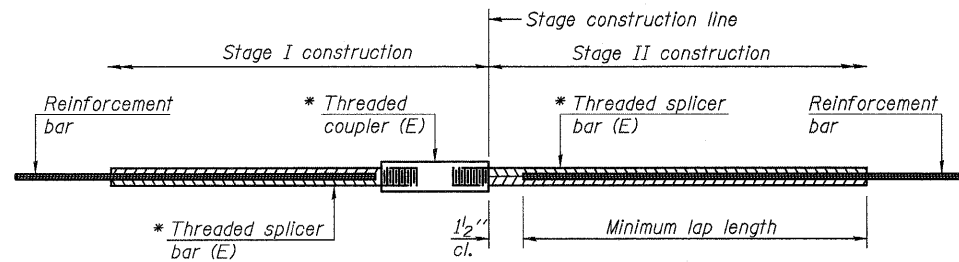
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FILE NAME =	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - MLH	REVISED -
PLOT DATE =	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 056-0091**

SHEET NO. 19 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132B-2	McHENRY	106	64
CONTRACT NO. 60129			ILLINOIS FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

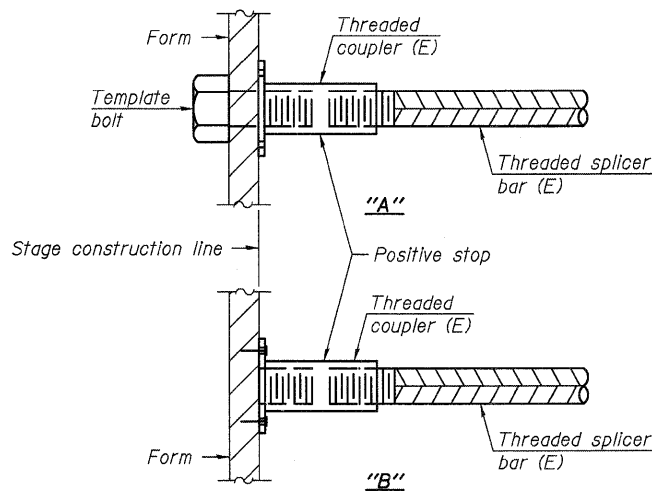
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

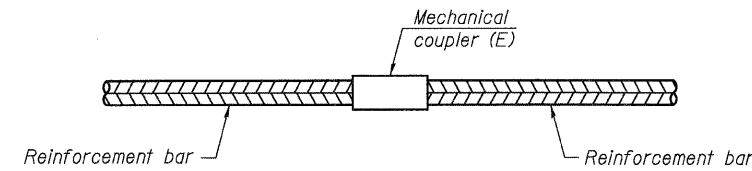
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutments	#5	20	Table 3
Abutments	#7	8	Table 3
Abutments	#7	8	Table 4
Deck	#5	282	Table 3
Diaphragms	#6	10	Table 5
Approach Slabs	#4	50	Table 4
Approach Slabs	#5	92	Table 3
Approach Footings	#5	80	Table 3



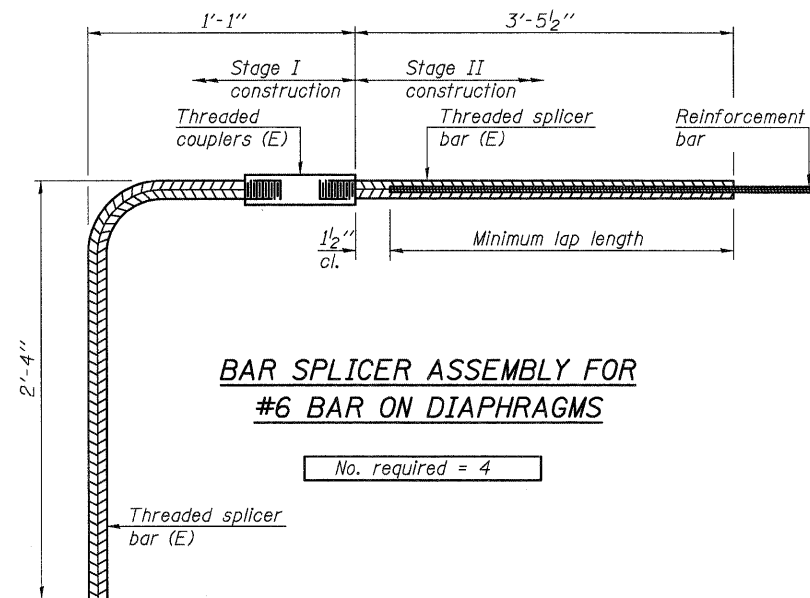
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



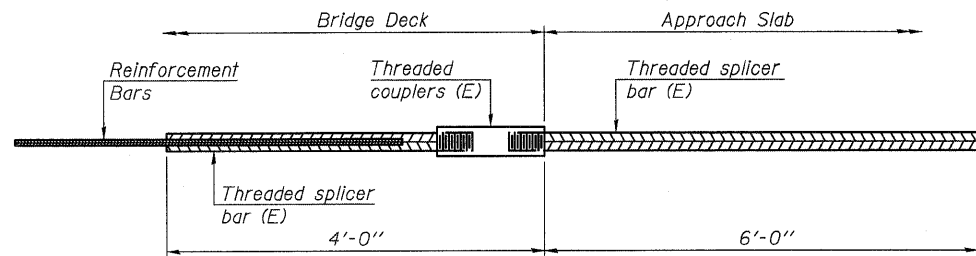
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



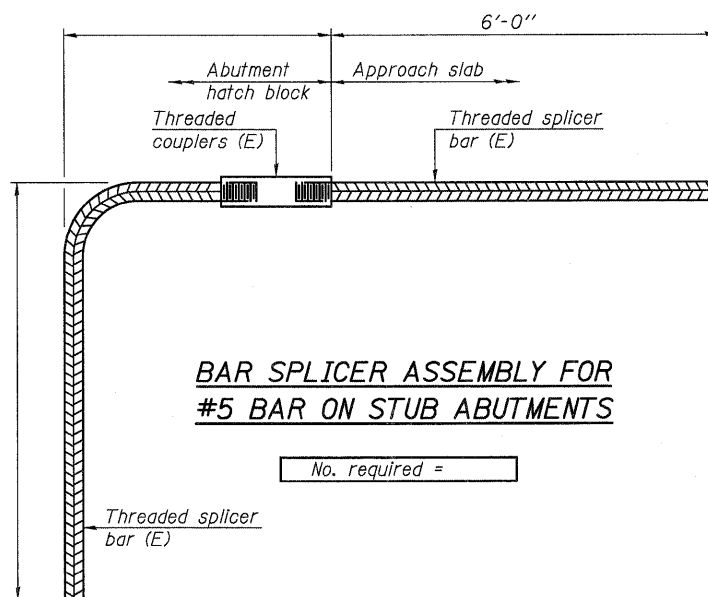
BAR SPLICER ASSEMBLY FOR #6 BAR ON DIAPHRAGMS

No. required = 4



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 92



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = F:\CBBEL WEST Projects\2009\09-0147_IL1173\Structural\Drawings\0560091-60129-020-Bar-Splicer-Dia.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME =	DESIGNED - MLH	REVISED -
FILE NAME =	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - MLH	REVISED -
PLOT DATE =	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 056-0091**

SHEET NO. 20 OF 22 SHEETS

F.A.P. RTE. 303	SECTION 132B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 65
CONTRACT NO. 60I29			ILLINOIS FED. AID PROJECT	

W Wang Engineering, Inc.
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-1
 WEI Job No.: 486-02-02

Datum: NGVD
 Elevation: 933.75 ft
 North: 2111214.94 ft
 East: 948029.06 ft
 Station: 440+78
 Offset: 12 LT

Client: Collins Engineers, Inc.
 Project: IL Rte. 173 (FAP 303) over Nippersink Creek
 Location: SW1/4, Section 18, R7E & T46N

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
933.0	9-inch thick ASPHALT PAVEMENT												
	Medium stiff to stiff, brown LOAM, little to some gravel	1	3	5	1.07	12			8	16	14	1.75	10
	Stiff, brown CLAY	2	5	8	0.75	15			10	7	8	4.51	11
928.3	Stiff, brown CLAY	3	2	2	1.00	21			11	8	8	2.82	10
925.8	Medium dense, brown SANDY LOAM	4	5	10	NP	19			12	13	18	4.50	15
923.3	Loose, gray GRAVELLY SAND	5	3	4	NP	10			13	10	14		
	Stiff to hard, brown SILTY CLAY LOAM to CLAY LOAM, little to some gravel	6	11	4	NP	20			14	9	10	3.81	9
918.3	Stiff to hard, brown SILTY CLAY LOAM to CLAY LOAM, little to some gravel	7	17	12	3.28	9			15	10	10	3.89	10
		8	4	8	2.87	10			16	10	14		

GENERAL NOTES

Begin Drilling: 09-24-2009 Complete Drilling: 09-24-2009

Drilling Contractor: Wang Testing Service Drill Rig: Diedrich D120 ATV

Driller: K&J Logger: B. Wilson Checked by: M. Snider

Drilling Method: 3.25 IDA HSA; backfilled upon completion

WATER LEVEL DATA

While Drilling: 9.00 ft

At Completion of Drilling: 2.50 ft

Time After Drilling: NA

Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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Datum: NGVD
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Client: Collins Engineers, Inc.
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 Location: SW1/4, Section 18, R7E & T46N

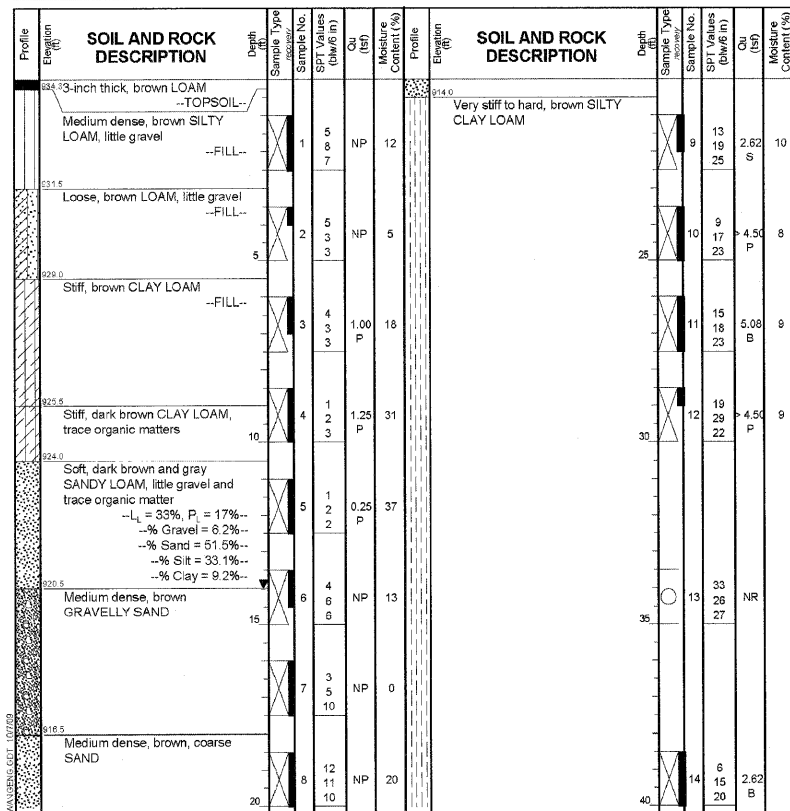
Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
		15	7	8	3.69	10			19	11	15	3.20	10
		16	8	14					20	10	16	3.77	10
		17	9	11	3.38	10			21	10	25		
		18	9	14	1.72	10			22	10	25	2.46	
		19	9	12	2.21	10			23	10	25		
		20	9	14					24	10	25		
		21	9	14					25	10	25		
		22	9	14					26	10	25		
		23	9	14					27	10	25		
		24	9	14					28	10	25		
		25	9	14					29	10	25		
		26	9	14					30	10	25		
		27	9	14					31	10	25		
		28	9	14					32	10	25		
		29	9	14					33	10	25		
		30	9	14					34	10	25		
		31	9	14					35	10	25		
		32	9	14					36	10	25		
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		37	9	14					41	10	25		
		38	9	14					42	10	25		
		39	9	14					43	10	25		
		40	9	14					44	10	25		
		41	9	14					45	10	25		
		42	9	14					46	10	25		
		43	9	14					47	10	25		
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		45	9	14					49	10	25		
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		47	9	14					51	10	25		
		48	9	14					52	10	25		
		49	9	14					53	10	25		
		50	9	14					54	10	25		
		51	9	14					55	10	25		
		52	9	14					56	10	25		
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		67	9	14					71	10	25		
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		118	9	14					122	10	25		
		119	9	14					123	10	25		
		120	9	14					124	10	25		

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

BORING LOG B-2
 WEI Job No.: 488-02-02

Datum: NGVD
 Elevation: 934.50 ft
 North: 2111195.66 ft
 East: 948161.99 ft
 Station: 441+95
 Offset: 25 RT

Client: **Collins Engineers, Inc.**
 Project: **IL Rte. 173 (FAP 303) over Nippersink Creek**
 Location: **SW1/4, Section 18, R7E & T49N**



GENERAL NOTES

Begin Drilling: 09-23-2009 Complete Drilling: 09-23-2009
 Drilling Contractor: Wang Testing Service Drill Rig: Diedrich D120 ATV
 Driller: K&J Logger: B. Wilson Checked by: M. Snider
 Drilling Method: 3.25 IDA HSA; backfilled upon completion

WATER LEVEL DATA

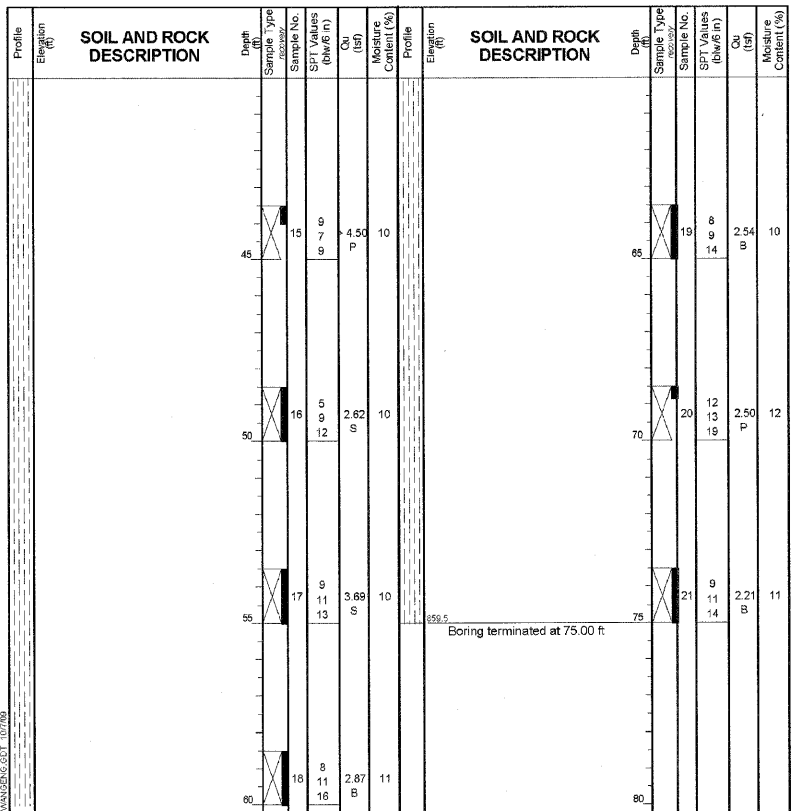
While Drilling: 14.00 ft
 At Completion of Drilling: 14.00 ft
 Time After Drilling: NA
 Depth to Water: NA

W Wang Engineering, Inc.
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 wangeng@wangeng.com
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 Drilling Contractor: Wang Testing Service Drill Rig: Diedrich D120 ATV
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WATER LEVEL DATA

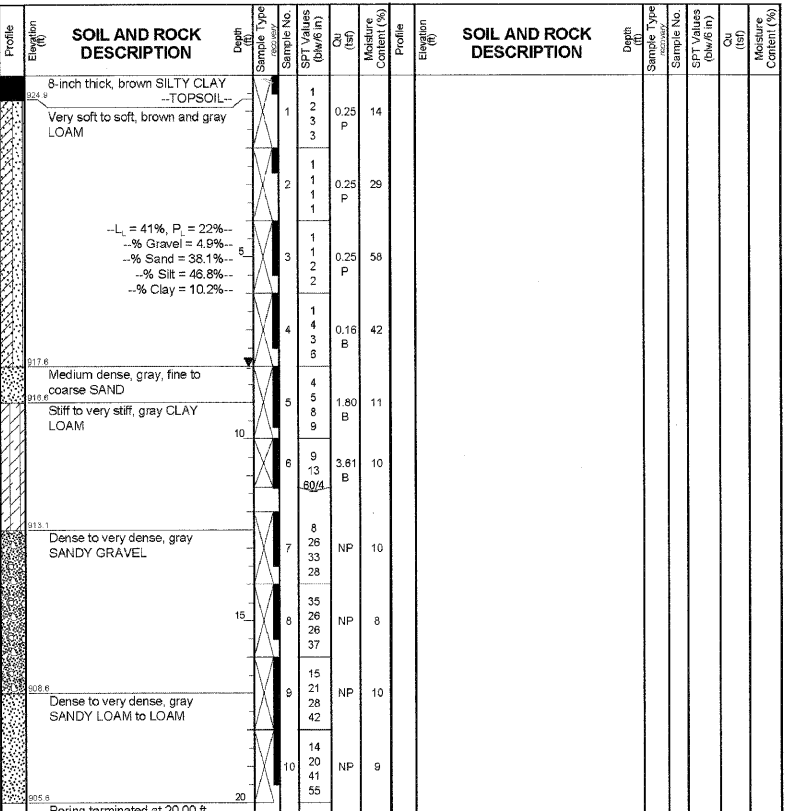
While Drilling: 14.00 ft
 At Completion of Drilling: 14.00 ft
 Time After Drilling: NA
 Depth to Water: NA

W Wang Engineering, Inc.
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 Fax: 630 953-9938

BORING LOG B-3
 WEI Job No.: 488-02-02

Datum: NGVD
 Elevation: 925.80 ft
 North: 211241.90 ft
 East: 948086.70 ft
 Station: 441+47
 Offset: 34 LT

Client: **Collins Engineers, Inc.**
 Project: **IL Rte. 173 (FAP 303) over Nippersink Creek**
 Location: **SW1/4, Section 18, R7E & T49N**



GENERAL NOTES

Begin Drilling: 09-24-2009 Complete Drilling: 09-24-2009
 Drilling Contractor: Wang Testing Service Drill Rig: Diedrich D120 ATV
 Driller: K&J Logger: B. Wilson Checked by: M. Snider
 Drilling Method: 3.25 IDA HSA; backfilled upon completion

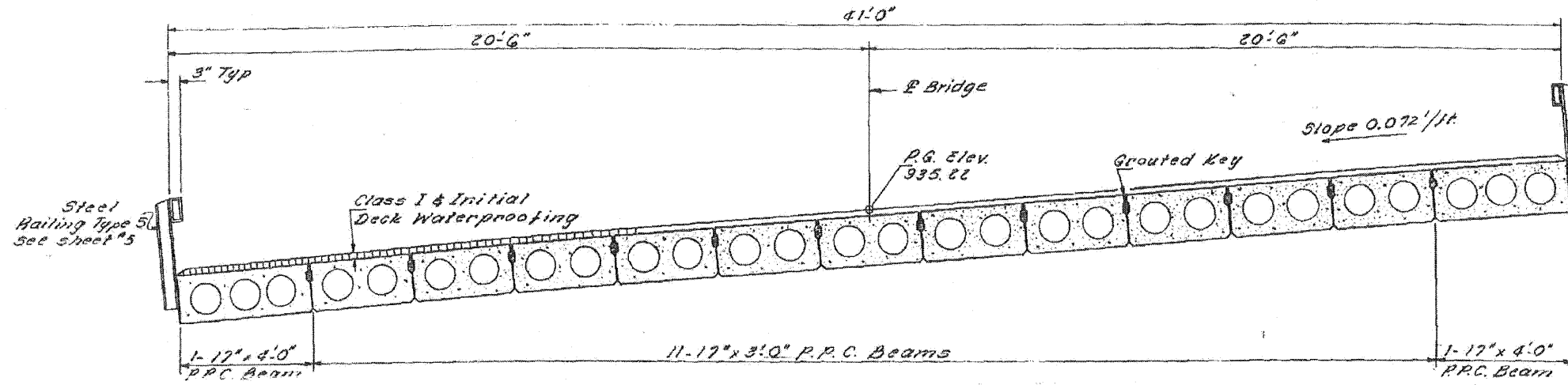
WATER LEVEL DATA

While Drilling: 8.00 ft
 At Completion of Drilling: 8.00 ft
 Time After Drilling: NA
 Depth to Water: NA

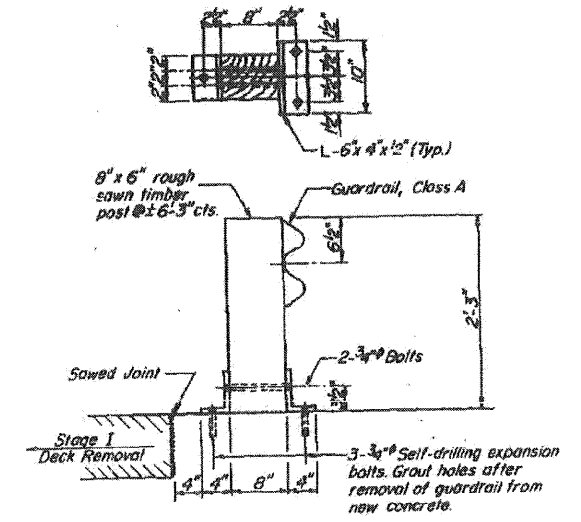
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

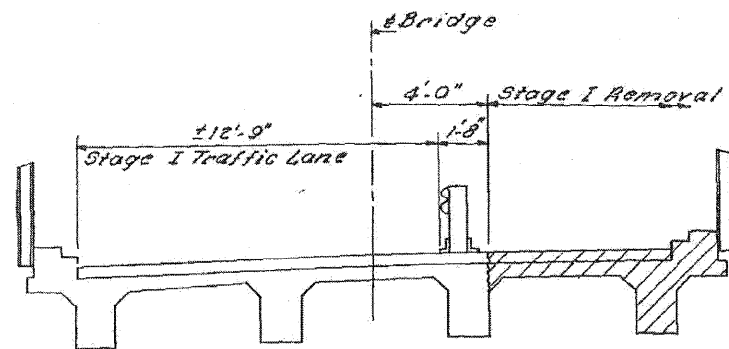
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
A.S. 1 P.A. 202	132 B-2 RS-1	McHENRY	217	62	14 SHEETS
FED. ROAD DIST. NO. 7	STATION	FED. AID PROJECT			



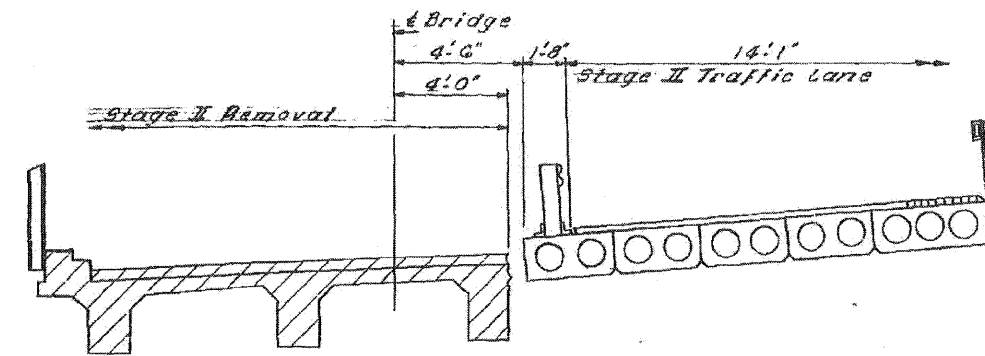
CROSS SECTION
= (Looking East)



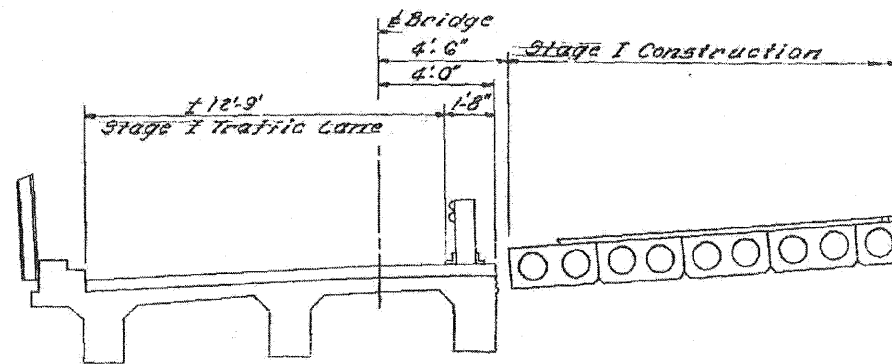
TEMPORARY GUARDRAIL DETAIL
See Special Provisions



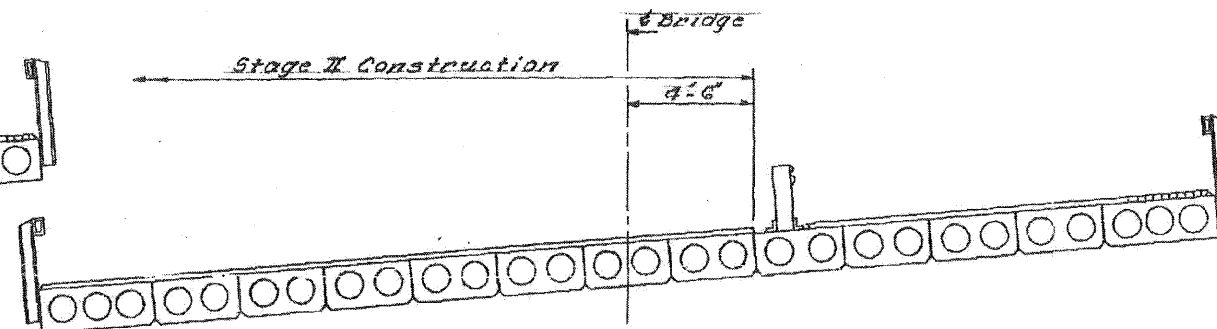
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

DESIGNED <i>Parkhill S. Co.</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>D. J. Ryan</i>	PASSED
DRAWN <i>J. Kessler</i>	APPROVED
CHECKED <i>D. R. PSL</i>	

SEPT 19 1973

STAGE CONSTRUCTION & SUPERSTRUCTURE DETAILS
SECTION 132 B-2
McHENRY COUNTY
STATION 661+00.00

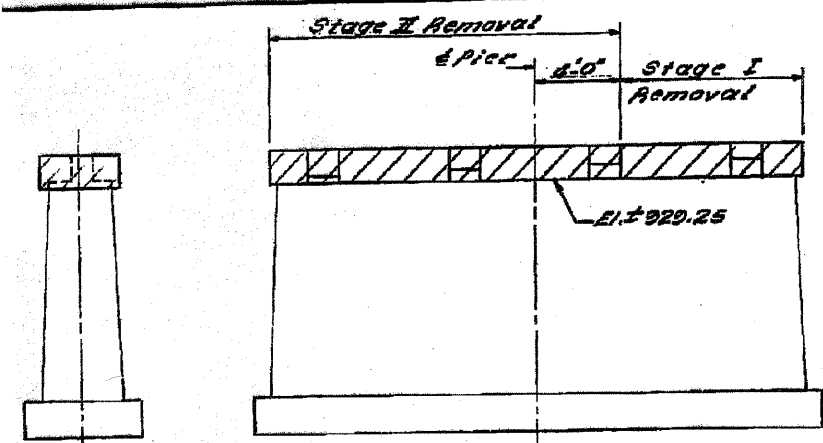
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

FILE NAME = PACBBEL_MEST_P\projects\2009\AP-9147_11173\civil\09\SH\A\160129-akt-01.dgn

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS FOR REFERENCE ONLY		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -		SCALE:	SHEET NO. 69 OF 106 SHEETS	STA.	TO STA.	303	132 B-2	McHENRY
	PLOT DATE = 1/5/2011	DATE - 12/14/10	REVISED -				CONTRACT NO. 60129 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

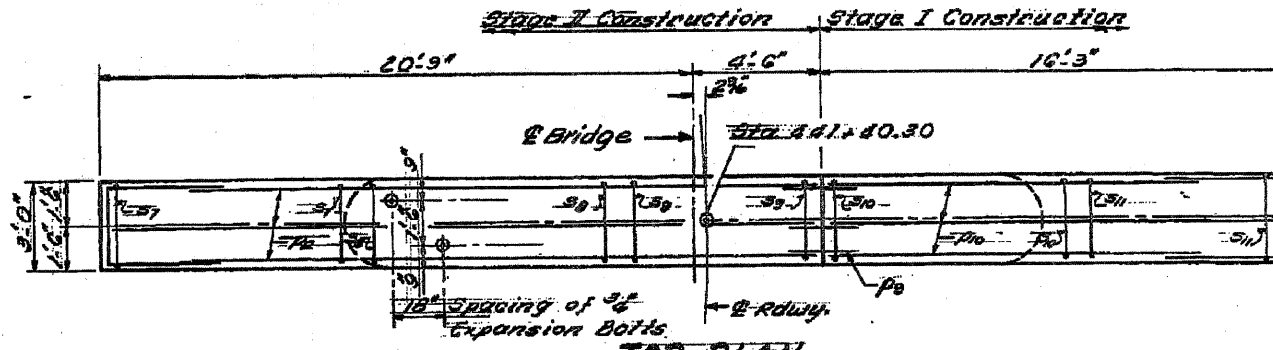
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
A.A. 1324 P.A. 207	R2-1	McHENRY	217	72
SHEET NO. 12 14 SHEETS				



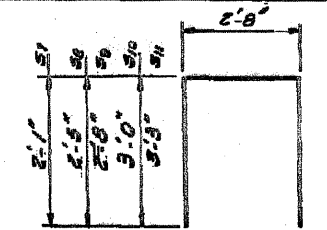
END VIEW

ELEVATION

Existing Pier (Hatched area indicates concrete Removal)



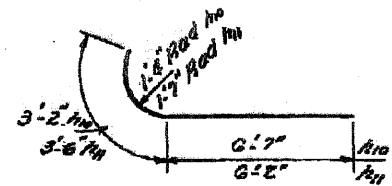
TOP PLAN



BAR thru s



BAR u



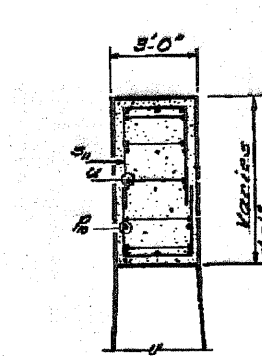
BAR No 6 H1



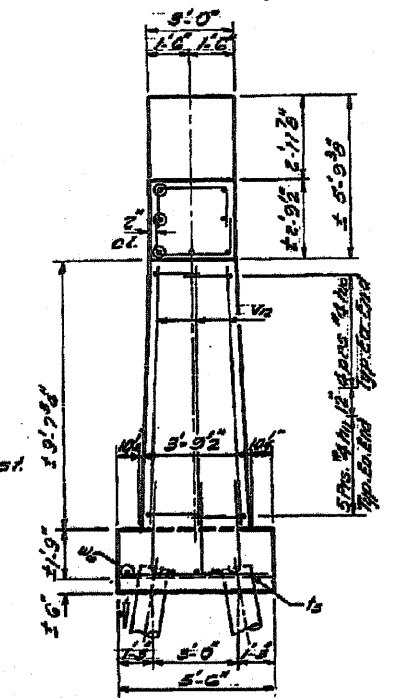
BAR No 6 H1



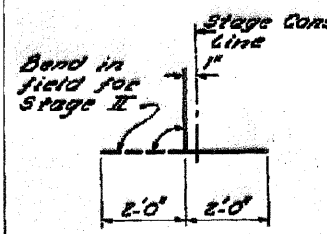
BAR No 6



SEC. B-B



END VIEW

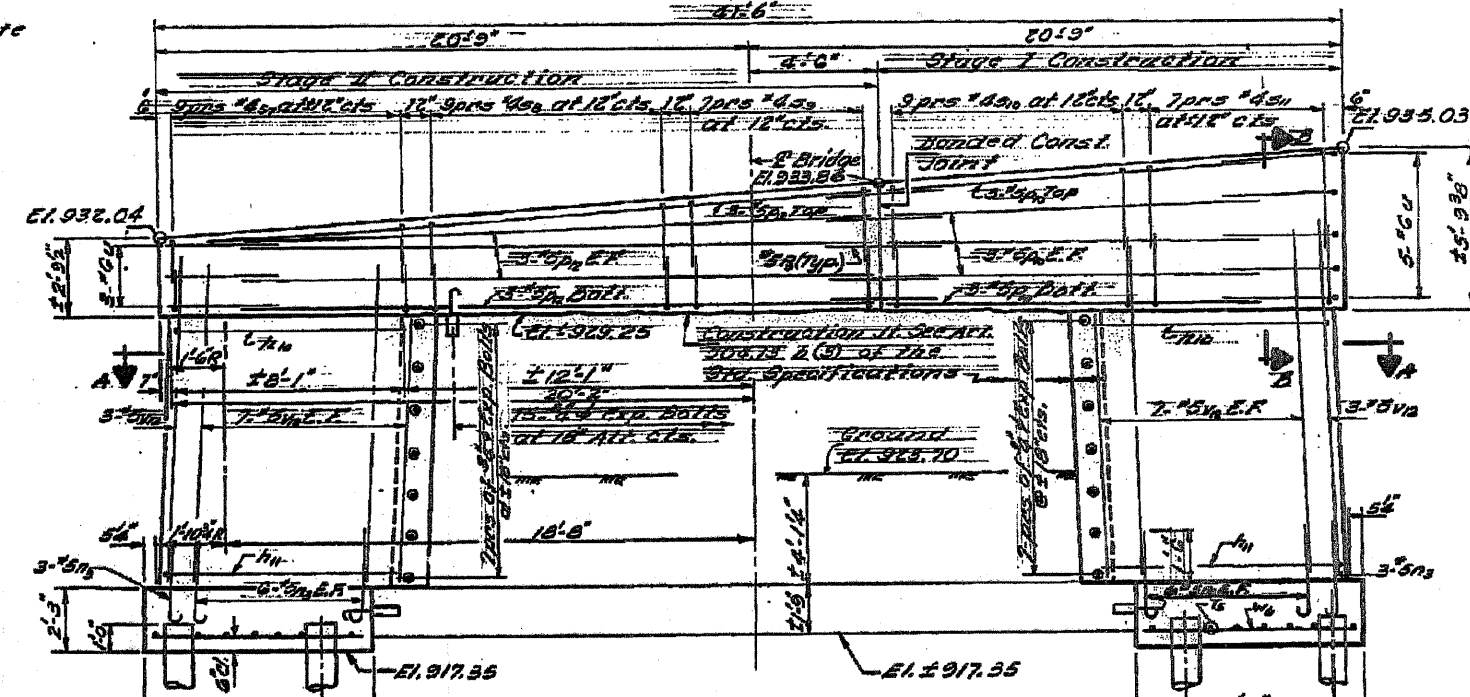


BAR 6

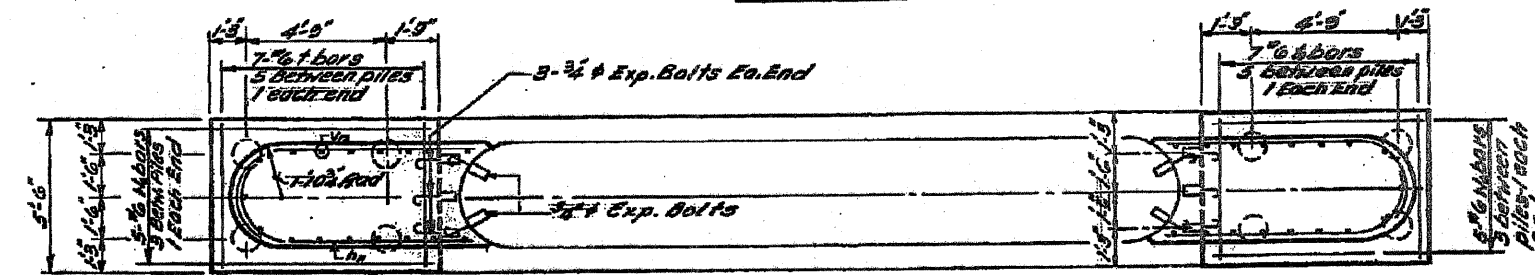
* Bars shall conform to the requirements of A.S.T.M. A-615 or A-617, except the min. yield strength shall not be less than 33000 psi nor more than 45000 psi

PILE DATA

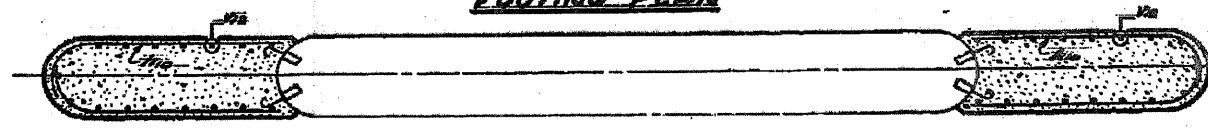
Type: Concrete
Capacity: 30 Ton
Tot. Lgh: 20 Ft.
No. Piles: 7+1 Test Pile



ELEVATION



FOOTING PLAN



SEC. A-A

Note
Expansion bolts shall be anchored in sound concrete
All exposed edges shall have standard chamfers
except as noted.

BILL OF MATERIAL

Bar No	Size	Length	Shape
H1	10	9'-9"	C
H2	20	9'-6"	C
H3	30	9'-6"	C
H4	12	4'-0"	C
H5	18	18'-3"	C
H6	16	22'-0"	C
S1	10	6'-0"	C
S2	10	7'-0"	C
S3	14	6'-0"	C
S4	10	6'-0"	C
S5	14	9'-2"	C
U	8	15'-7"	C
Va	3/4	11'-0"	C
W1	10	7'-0"	C
Reinforcement Bars			
Formwork			
Expansion Bolts			
Concrete Material			
Concrete Piles			
Test Piles Concrete			

DESIGNED: Richard S. L...
CHECKED: D.A.R...
DRAWN: J.K...
CHECKED: D.A.R... P.S.L.

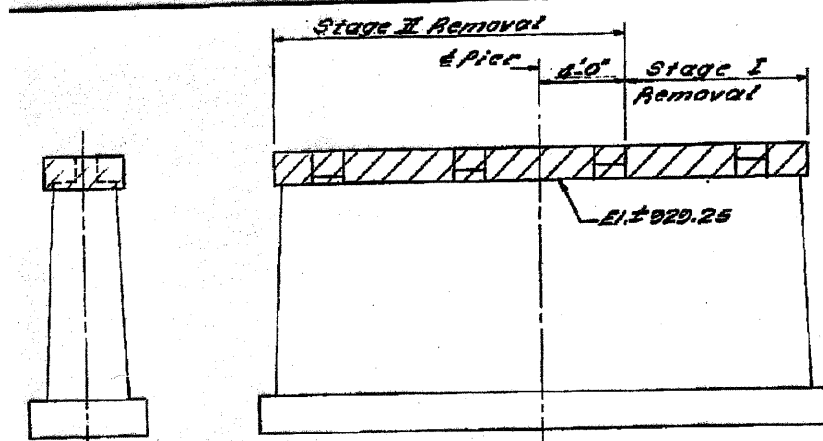
EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

DATE: SEPT 13 1973

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

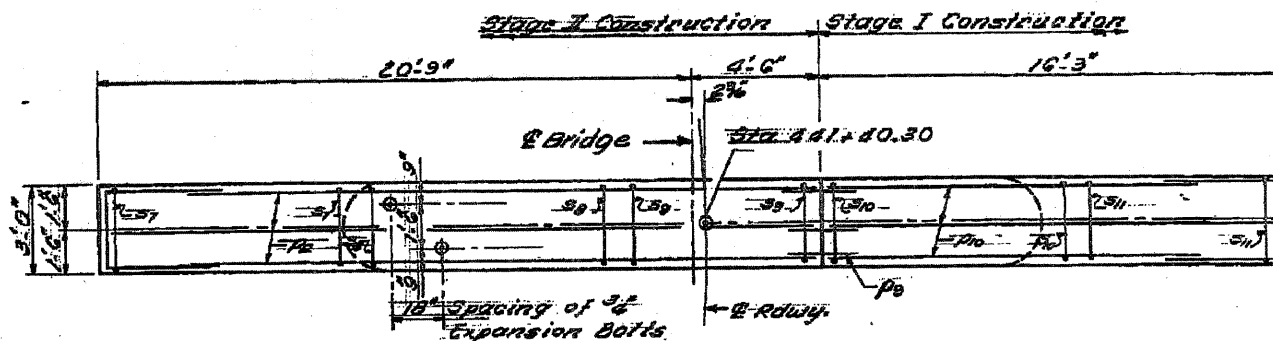
DATE	DESIGNED	CHECKED	TOTAL SHEETS	SHEET NO.
12/14/10	PSC	DAR	106	72
PROJECT: McHENRY COUNTY BRIDGE				



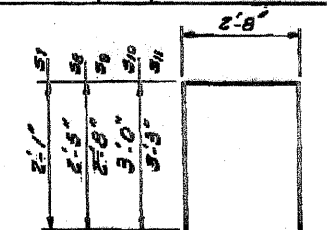
END VIEW

ELEVATION

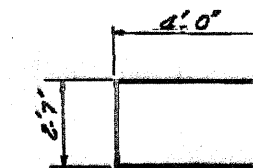
Existing Pier (Hatched area indicates concrete Removal)



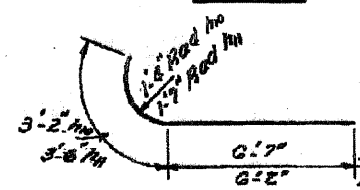
TOP PLAN



BAR thru s



BAR u



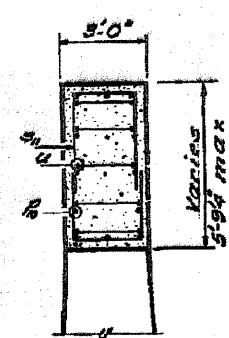
BAR k



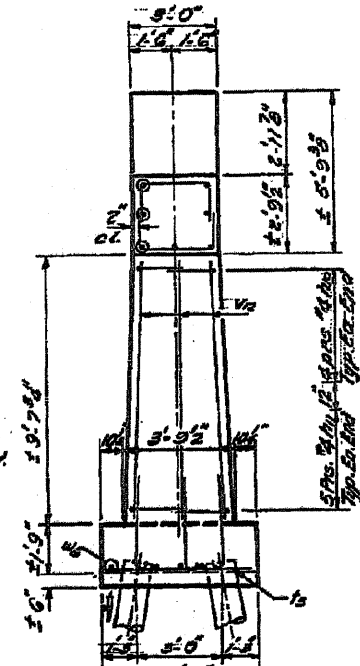
BAR n

BILL OF MATERIAL

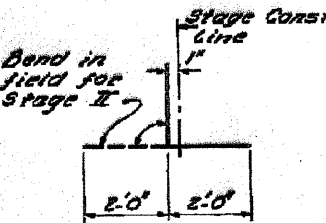
Bar	No	Size	Length	Shape
A10	10	#8	9'-5"	U
A11	20	#8	9'-5"	U
A12	30	#8	3'-6"	U
A13	12	#6	2'-0"	U
A14	12	#6	15'-5"	U
A15	12	#6	22'-5"	U
A16	10	#6	6'-0"	U
A17	10	#6	7'-0"	U
A18	14	#6	5'-5"	U
A19	8	#6	10'-7"	U
A20	34	#6	11'-0"	U
A21	10	#6	7'-6"	U
Reinforcement Bars 10# 20000				
Expansion Bolts 10# 20000				
Concrete 10# 20000				
Concrete Piles 10# 20000				
Test Piles Concrete 10# 20000				



SEC. B-B



END VIEW

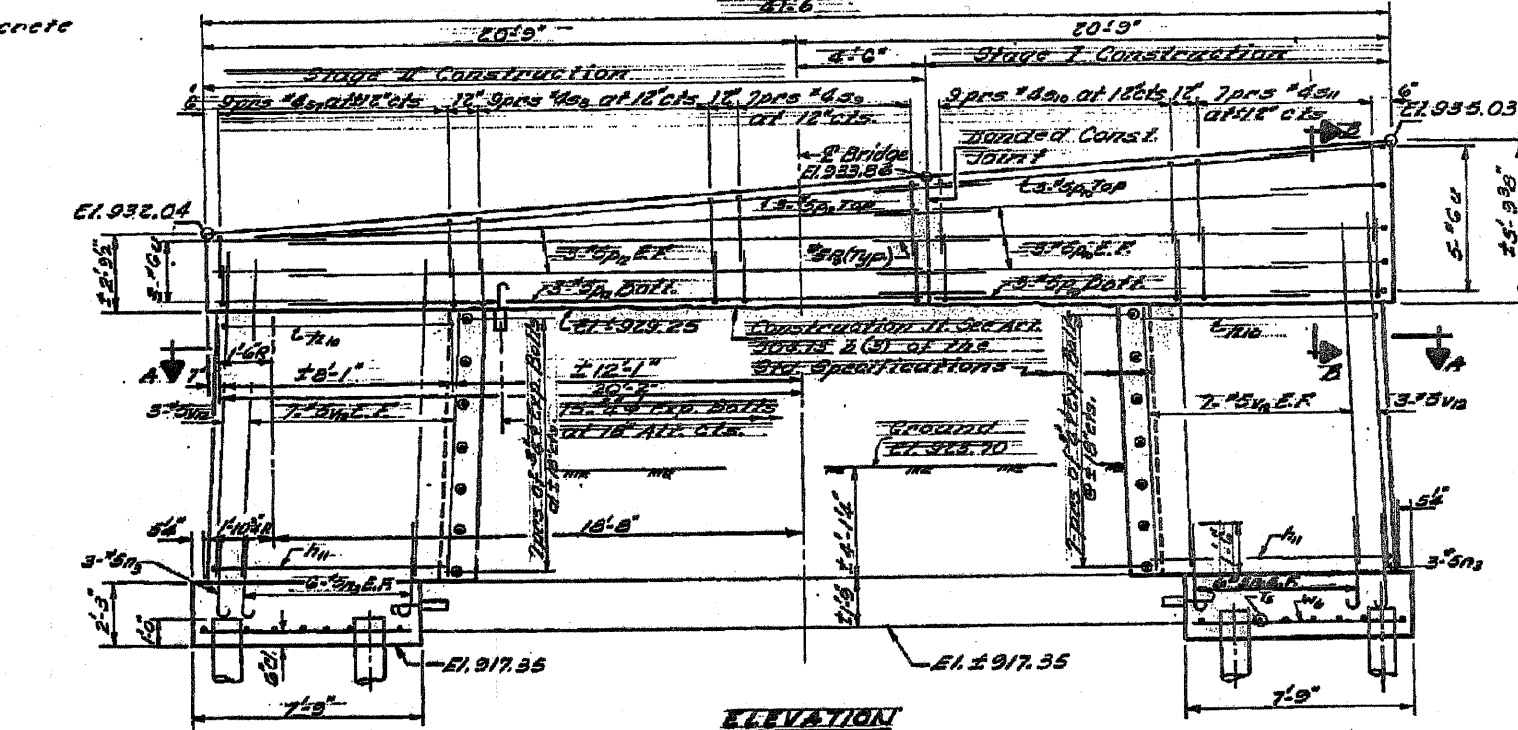


BAR p

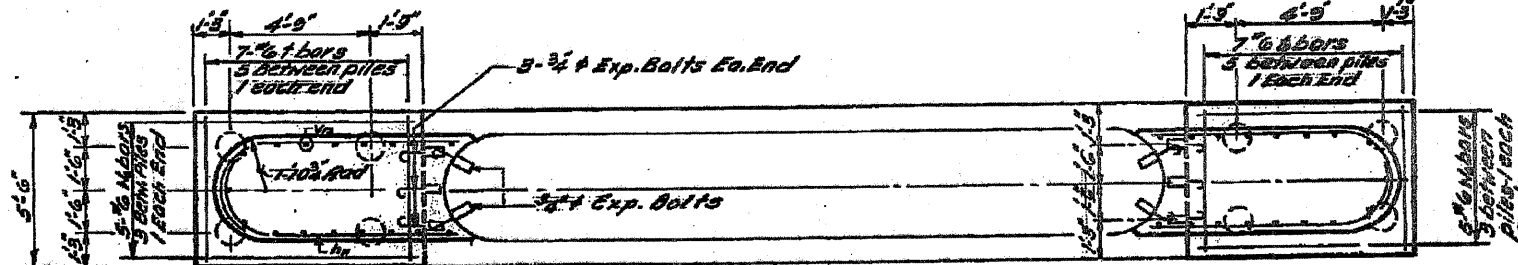
* Bars shall conform to the requirements of ASTM A-615 or A-617, except the min. yield strength shall not be less than 33000 psi nor more than 48000 psi

PILE DATA

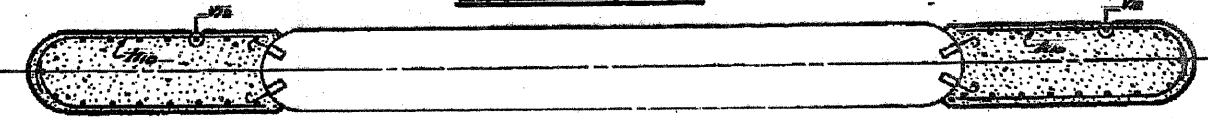
Type: Concrete
Capacity: 50 Ton
Tot. Lgth: 20 Ft.
No. Req'd: 7+1 Test Pile



ELEVATION



FOOTING PLAN



SEC. A-A

Note: Expansion bolts shall be anchored in sound concrete. All exposed edges shall have a 1/2" chamfer except as noted.

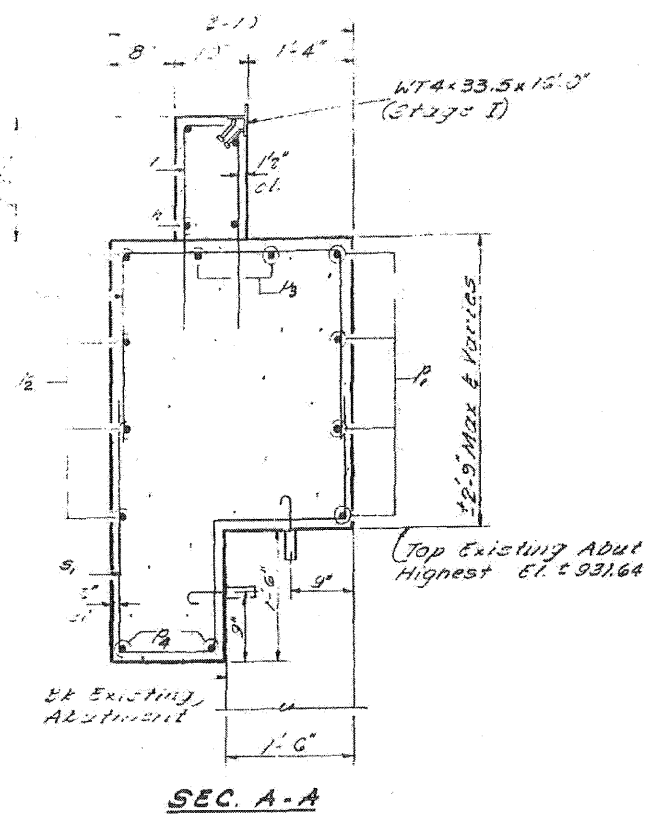
McHENRY COUNTY
STATION 6616030

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

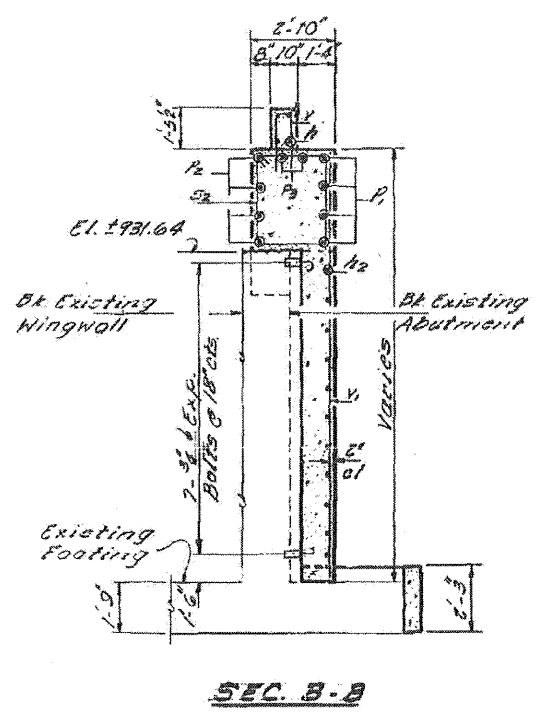
FILE NAME: F:\CBBEL\WEST Projects\2009\09-0147_IL173\Civil\Dgn\Sht\0168129-ah-01.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

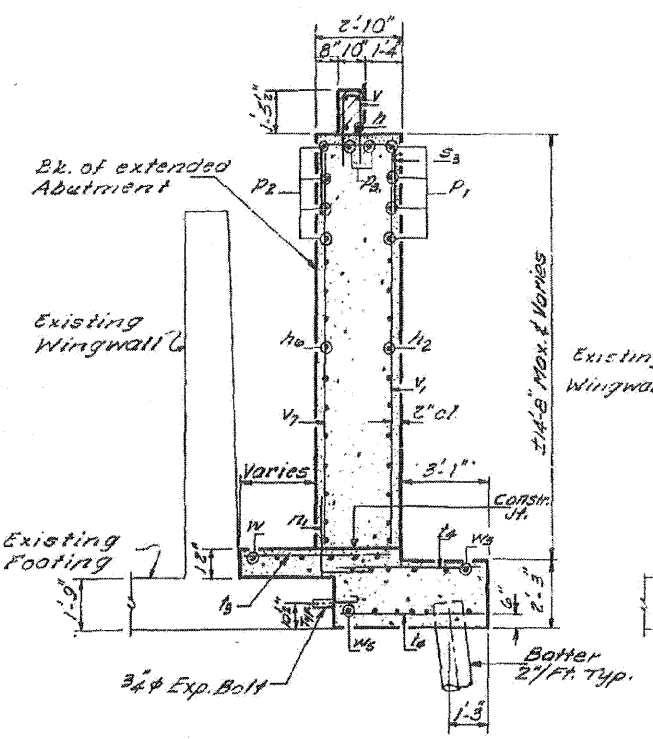
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	74
CONTRACT NO. 60I29				



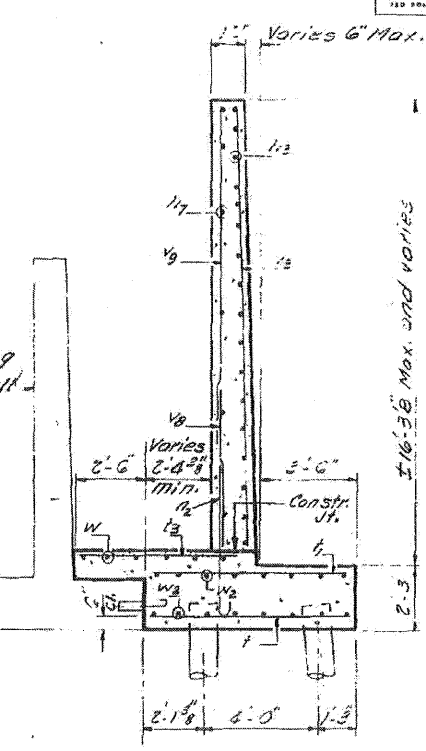
SEC. A-A



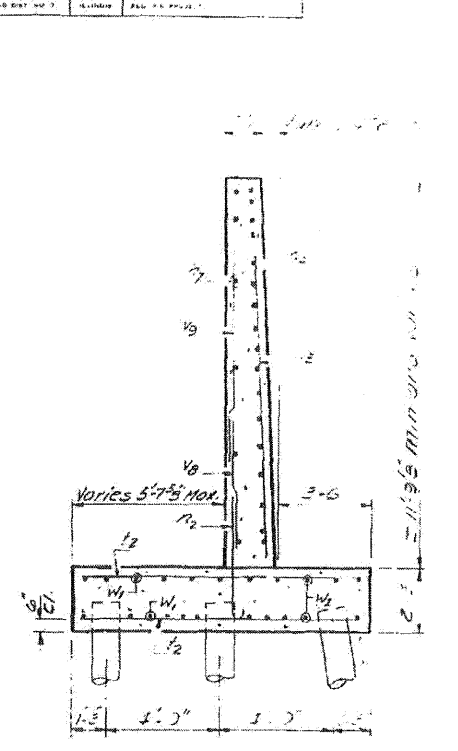
SEC. B-B



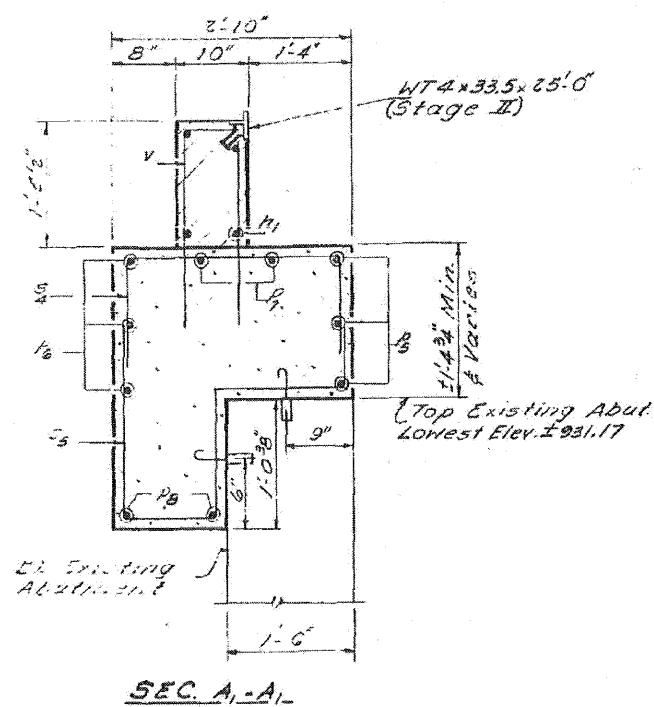
SEC. C-C



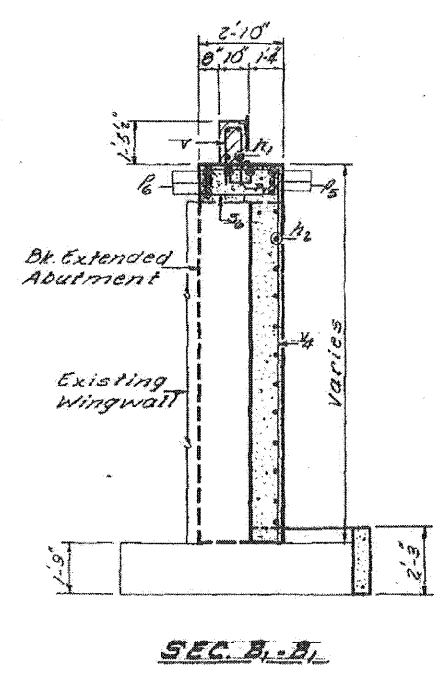
SEC. D-D



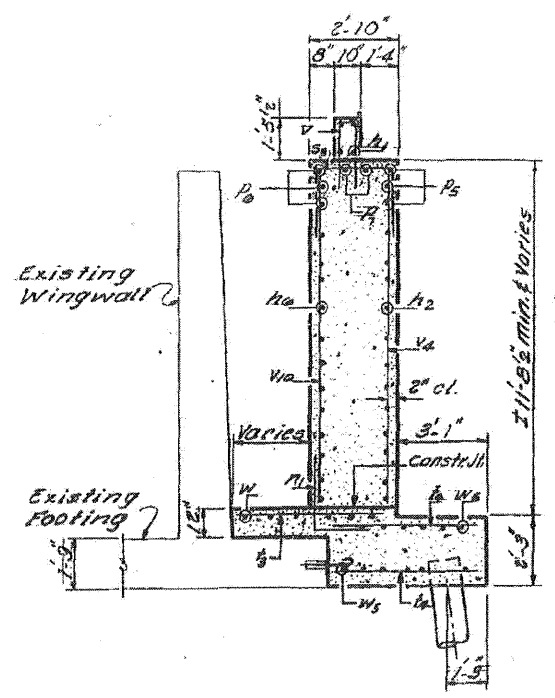
SEC. E-E



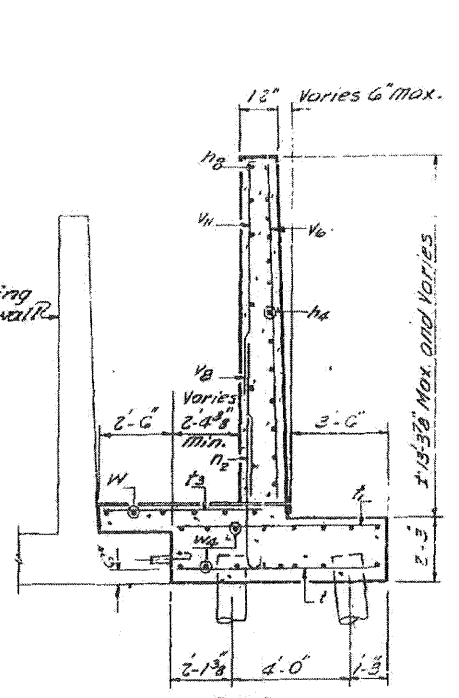
SEC. A1-A1



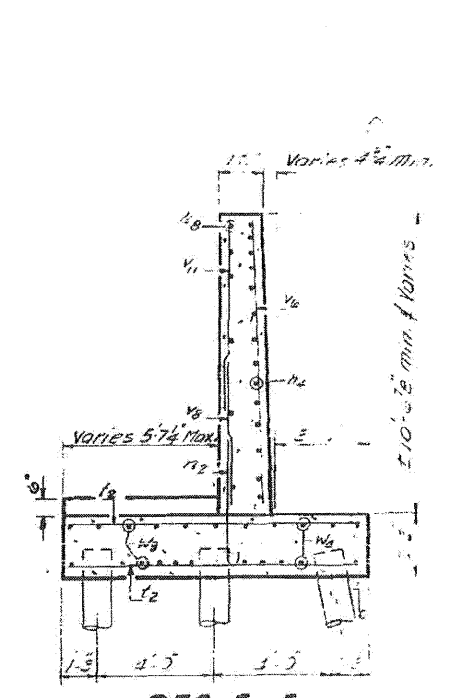
SEC. B1-B1



SEC. C1-C1



SEC. D1-D1



SEC. E1-E1

DESIGNED	SEPT. 13, 2013
CHECKED	
DRAWN	
CHECKED	
EXAMINED	
PASSED	
APPROVED	

ABUTMENT DETAILS
EAST ABUTMENT
S.E. AT 178 SEC. 182 W. 89-1
McHENRY COUNTY
STATION 44+40.30

FILE NAME = P:\CIBEL WEST Projects\2009\09-0147_IL173\Gv1\0gm\Shr\AD168129-shr-01.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7750

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/5/2011	CHECKED -	REVISED -
	DATE - 12/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

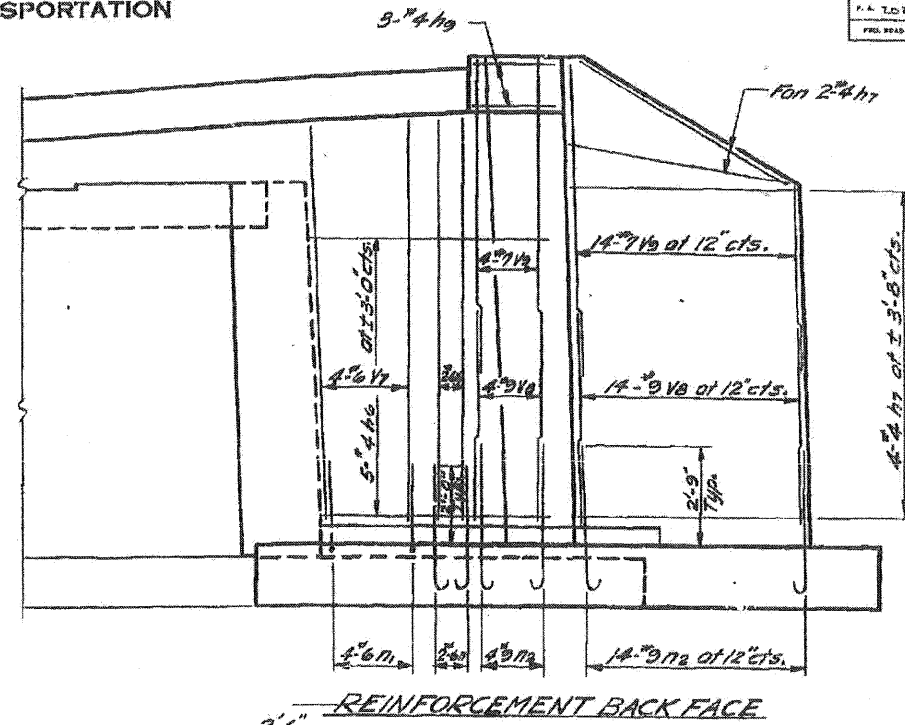
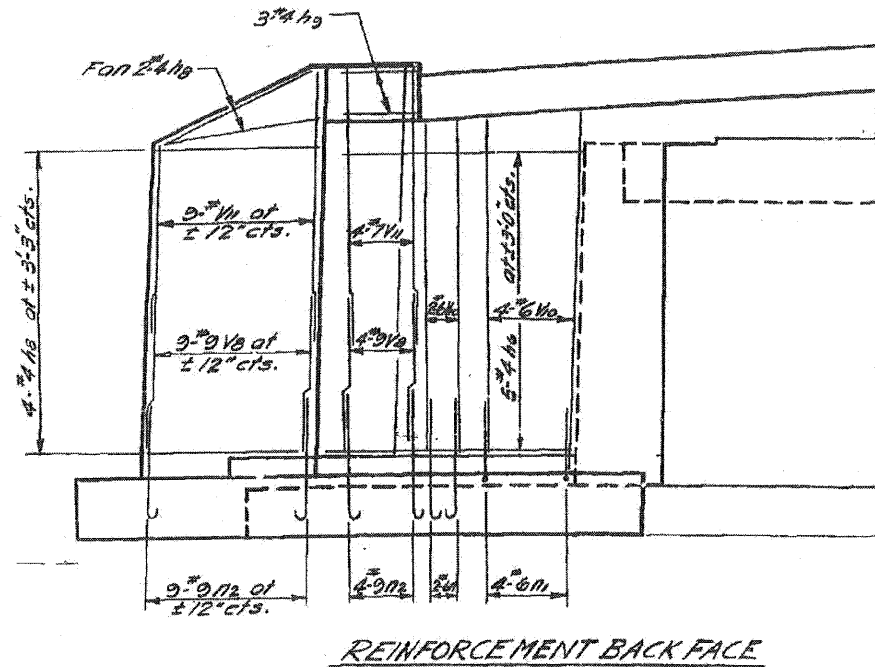
EXISTING STRUCTURE PLANS FOR REFERENCE ONLY			
SCALE:	SHEET NO. 74 OF 106 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	74
CONTRACT NO. 60I29				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

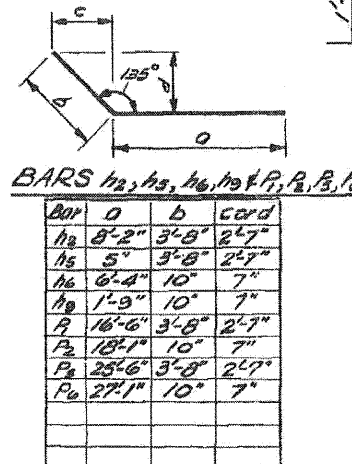
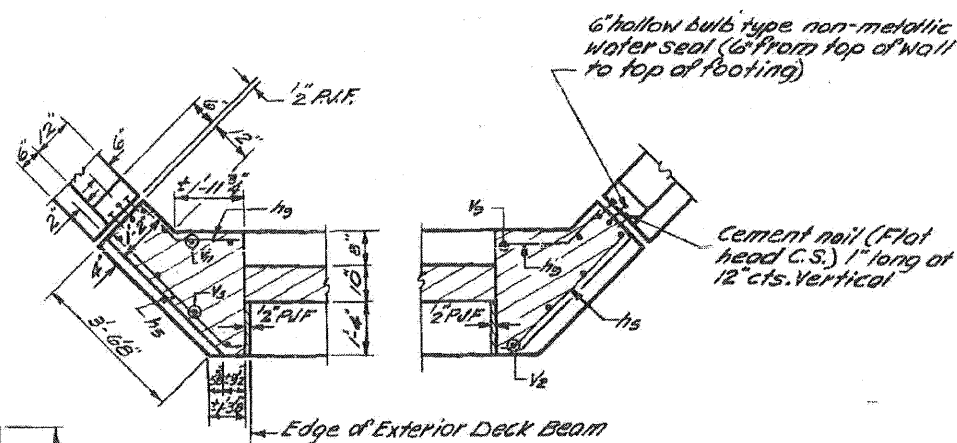
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132 W.	RS-1	McHENRY	117	11
SHEET NO. 11 OF 11 SHEETS				



REINFORCEMENT BACK FACE



BARS h₂, h₃, h₄, h₅, h₆, h₇, h₈, h₉, h₁₀, h₁₁, h₁₂, h₁₃, h₁₄, h₁₅, h₁₆, h₁₇, h₁₈, h₁₉, h₂₀, h₂₁, h₂₂, h₂₃, h₂₄, h₂₅, h₂₆, h₂₇, h₂₈, h₂₉, h₃₀, h₃₁, h₃₂, h₃₃, h₃₄, h₃₅, h₃₆, h₃₇, h₃₈, h₃₉, h₄₀, h₄₁, h₄₂, h₄₃, h₄₄, h₄₅, h₄₆, h₄₇, h₄₈, h₄₉, h₅₀, h₅₁, h₅₂, h₅₃, h₅₄, h₅₅, h₅₆, h₅₇, h₅₈, h₅₉, h₆₀, h₆₁, h₆₂, h₆₃, h₆₄, h₆₅, h₆₆, h₆₇, h₆₈, h₆₉, h₇₀, h₇₁, h₇₂, h₇₃, h₇₄, h₇₅, h₇₆, h₇₇, h₇₈, h₇₉, h₈₀, h₈₁, h₈₂, h₈₃, h₈₄, h₈₅, h₈₆, h₈₇, h₈₈, h₈₉, h₉₀, h₉₁, h₉₂, h₉₃, h₉₄, h₉₅, h₉₆, h₉₇, h₉₈, h₉₉, h₁₀₀, h₁₀₁, h₁₀₂, h₁₀₃, h₁₀₄, h₁₀₅, h₁₀₆, h₁₀₇, h₁₀₈, h₁₀₉, h₁₁₀, h₁₁₁, h₁₁₂, h₁₁₃, h₁₁₄, h₁₁₅, h₁₁₆, h₁₁₇, h₁₁₈, h₁₁₉, h₁₂₀, h₁₂₁, h₁₂₂, h₁₂₃, h₁₂₄, h₁₂₅, h₁₂₆, h₁₂₇, h₁₂₈, h₁₂₉, h₁₃₀, h₁₃₁, h₁₃₂, h₁₃₃, h₁₃₄, h₁₃₅, h₁₃₆, h₁₃₇, h₁₃₈, h₁₃₉, h₁₄₀, h₁₄₁, h₁₄₂, h₁₄₃, h₁₄₄, h₁₄₅, h₁₄₆, h₁₄₇, h₁₄₈, h₁₄₉, h₁₅₀, h₁₅₁, h₁₅₂, h₁₅₃, h₁₅₄, h₁₅₅, h₁₅₆, h₁₅₇, h₁₅₈, h₁₅₉, h₁₆₀, h₁₆₁, h₁₆₂, h₁₆₃, h₁₆₄, h₁₆₅, h₁₆₆, h₁₆₇, h₁₆₈, h₁₆₉, h₁₇₀, h₁₇₁, h₁₇₂, h₁₇₃, h₁₇₄, h₁₇₅, h₁₇₆, h₁₇₇, h₁₇₈, h₁₇₉, h₁₈₀, h₁₈₁, h₁₈₂, h₁₈₃, h₁₈₄, h₁₈₅, h₁₈₆, h₁₈₇, h₁₈₈, h₁₈₉, h₁₉₀, h₁₉₁, h₁₉₂, h₁₉₃, h₁₉₄, h₁₉₅, h₁₉₆, h₁₉₇, h₁₉₈, h₁₉₉, h₂₀₀, h₂₀₁, h₂₀₂, h₂₀₃, h₂₀₄, h₂₀₅, h₂₀₆, h₂₀₇, h₂₀₈, h₂₀₉, h₂₁₀, h₂₁₁, h₂₁₂, h₂₁₃, h₂₁₄, h₂₁₅, h₂₁₆, h₂₁₇, h₂₁₈, h₂₁₉, h₂₂₀, h₂₂₁, h₂₂₂, h₂₂₃, h₂₂₄, h₂₂₅, h₂₂₆, h₂₂₇, h₂₂₈, h₂₂₉, h₂₃₀, h₂₃₁, h₂₃₂, h₂₃₃, h₂₃₄, h₂₃₅, h₂₃₆, h₂₃₇, h₂₃₈, h₂₃₉, h₂₄₀, h₂₄₁, h₂₄₂, h₂₄₃, h₂₄₄, h₂₄₅, h₂₄₆, h₂₄₇, h₂₄₈, h₂₄₉, h₂₅₀, h₂₅₁, h₂₅₂, h₂₅₃, h₂₅₄, h₂₅₅, h₂₅₆, h₂₅₇, h₂₅₈, h₂₅₉, h₂₆₀, h₂₆₁, h₂₆₂, h₂₆₃, h₂₆₄, h₂₆₅, h₂₆₆, h₂₆₇, h₂₆₈, h₂₆₉, h₂₇₀, h₂₇₁, h₂₇₂, h₂₇₃, h₂₇₄, h₂₇₅, h₂₇₆, h₂₇₇, h₂₇₈, h₂₇₉, h₂₈₀, h₂₈₁, h₂₈₂, h₂₈₃, h₂₈₄, h₂₈₅, h₂₈₆, h₂₈₇, h₂₈₈, h₂₈₉, h₂₉₀, h₂₉₁, h₂₉₂, h₂₉₃, h₂₉₄, h₂₉₅, h₂₉₆, h₂₉₇, h₂₉₈, h₂₉₉, h₃₀₀, h₃₀₁, h₃₀₂, h₃₀₃, h₃₀₄, h₃₀₅, h₃₀₆, h₃₀₇, h₃₀₈, h₃₀₉, h₃₁₀, h₃₁₁, h₃₁₂, h₃₁₃, h₃₁₄, h₃₁₅, h₃₁₆, h₃₁₇, h₃₁₈, h₃₁₉, h₃₂₀, h₃₂₁, h₃₂₂, h₃₂₃, h₃₂₄, h₃₂₅, h₃₂₆, h₃₂₇, h₃₂₈, h₃₂₉, h₃₃₀, h₃₃₁, h₃₃₂, h₃₃₃, h₃₃₄, h₃₃₅, h₃₃₆, h₃₃₇, h₃₃₈, h₃₃₉, h₃₄₀, h₃₄₁, h₃₄₂, h₃₄₃, h₃₄₄, h₃₄₅, h₃₄₆, h₃₄₇, h₃₄₈, h₃₄₉, h₃₅₀, h₃₅₁, h₃₅₂, h₃₅₃, h₃₅₄, h₃₅₅, h₃₅₆, h₃₅₇, h₃₅₈, h₃₅₉, h₃₆₀, h₃₆₁, h₃₆₂, h₃₆₃, h₃₆₄, h₃₆₅, h₃₆₆, h₃₆₇, h₃₆₈, h₃₆₉, h₃₇₀, h₃₇₁, h₃₇₂, h₃₇₃, h₃₇₄, h₃₇₅, h₃₇₆, h₃₇₇, h₃₇₈, h₃₇₉, h₃₈₀, h₃₈₁, h₃₈₂, h₃₈₃, h₃₈₄, h₃₈₅, h₃₈₆, h₃₈₇, h₃₈₈, h₃₈₉, h₃₉₀, h₃₉₁, h₃₉₂, h₃₉₃, h₃₉₄, h₃₉₅, h₃₉₆, h₃₉₇, h₃₉₈, h₃₉₉, h₄₀₀, h₄₀₁, h₄₀₂, h₄₀₃, h₄₀₄, h₄₀₅, h₄₀₆, h₄₀₇, h₄₀₈, h₄₀₉, h₄₁₀, h₄₁₁, h₄₁₂, h₄₁₃, h₄₁₄, h₄₁₅, h₄₁₆, h₄₁₇, h₄₁₈, h₄₁₉, h₄₂₀, h₄₂₁, h₄₂₂, h₄₂₃, h₄₂₄, h₄₂₅, h₄₂₆, h₄₂₇, h₄₂₈, h₄₂₉, h₄₃₀, h₄₃₁, h₄₃₂, h₄₃₃, h₄₃₄, h₄₃₅, h₄₃₆, h₄₃₇, h₄₃₈, h₄₃₉, h₄₄₀, h₄₄₁, h₄₄₂, h₄₄₃, h₄₄₄, h₄₄₅, h₄₄₆, h₄₄₇, h₄₄₈, h₄₄₉, h₄₅₀, h₄₅₁, h₄₅₂, h₄₅₃, h₄₅₄, h₄₅₅, h₄₅₆, h₄₅₇, h₄₅₈, h₄₅₉, h₄₆₀, h₄₆₁, h₄₆₂, h₄₆₃, h₄₆₄, h₄₆₅, h₄₆₆, h₄₆₇, h₄₆₈, h₄₆₉, h₄₇₀, h₄₇₁, h₄₇₂, h₄₇₃, h₄₇₄, h₄₇₅, h₄₇₆, h₄₇₇, h₄₇₈, h₄₇₉, h₄₈₀, h₄₈₁, h₄₈₂, h₄₈₃, h₄₈₄, h₄₈₅, h₄₈₆, h₄₈₇, h₄₈₈, h₄₈₉, h₄₉₀, h₄₉₁, h₄₉₂, h₄₉₃, h₄₉₄, h₄₉₅, h₄₉₆, h₄₉₇, h₄₉₈, h₄₉₉, h₅₀₀, h₅₀₁, h₅₀₂, h₅₀₃, h₅₀₄, h₅₀₅, h₅₀₆, h₅₀₇, h₅₀₈, h₅₀₉, h₅₁₀, h₅₁₁, h₅₁₂, h₅₁₃, h₅₁₄, h₅₁₅, h₅₁₆, h₅₁₇, h₅₁₈, h₅₁₉, h₅₂₀, h₅₂₁, h₅₂₂, h₅₂₃, h₅₂₄, h₅₂₅, h₅₂₆, h₅₂₇, h₅₂₈, h₅₂₉, h₅₃₀, h₅₃₁, h₅₃₂, h₅₃₃, h₅₃₄, h₅₃₅, h₅₃₆, h₅₃₇, h₅₃₈, h₅₃₉, h₅₄₀, h₅₄₁, h₅₄₂, h₅₄₃, h₅₄₄, h₅₄₅, h₅₄₆, h₅₄₇, h₅₄₈, h₅₄₉, h₅₅₀, h₅₅₁, h₅₅₂, h₅₅₃, h₅₅₄, h₅₅₅, h₅₅₆, h₅₅₇, h₅₅₈, h₅₅₉, h₅₆₀, h₅₆₁, h₅₆₂, h₅₆₃, h₅₆₄, h₅₆₅, h₅₆₆, h₅₆₇, h₅₆₈, h₅₆₉, h₅₇₀, h₅₇₁, h₅₇₂, h₅₇₃, h₅₇₄, h₅₇₅, h₅₇₆, h₅₇₇, h₅₇₈, h₅₇₉, h₅₈₀, h₅₈₁, h₅₈₂, h₅₈₃, h₅₈₄, h₅₈₅, h₅₈₆, h₅₈₇, h₅₈₈, h₅₈₉, h₅₉₀, h₅₉₁, h₅₉₂, h₅₉₃, h₅₉₄, h₅₉₅, h₅₉₆, h₅₉₇, h₅₉₈, h₅₉₉, h₆₀₀, h₆₀₁, h₆₀₂, h₆₀₃, h₆₀₄, h₆₀₅, h₆₀₆, h₆₀₇, h₆₀₈, h₆₀₉, h₆₁₀, h₆₁₁, h₆₁₂, h₆₁₃, h₆₁₄, h₆₁₅, h₆₁₆, h₆₁₇, h₆₁₈, h₆₁₉, h₆₂₀, h₆₂₁, h₆₂₂, h₆₂₃, h₆₂₄, h₆₂₅, h₆₂₆, h₆₂₇, h₆₂₈, h₆₂₉, h₆₃₀, h₆₃₁, h₆₃₂, h₆₃₃, h₆₃₄, h₆₃₅, h₆₃₆, h₆₃₇, h₆₃₈, h₆₃₉, h₆₄₀, h₆₄₁, h₆₄₂, h₆₄₃, h₆₄₄, h₆₄₅, h₆₄₆, h₆₄₇, h₆₄₈, h₆₄₉, h₆₅₀, h₆₅₁, h₆₅₂, h₆₅₃, h₆₅₄, h₆₅₅, h₆₅₆, h₆₅₇, h₆₅₈, h₆₅₉, h₆₆₀, h₆₆₁, h₆₆₂, h₆₆₃, h₆₆₄, h₆₆₅, h₆₆₆, h₆₆₇, h₆₆₈, h₆₆₉, h₆₇₀, h₆₇₁, h₆₇₂, h₆₇₃, h₆₇₄, h₆₇₅, h₆₇₆, h₆₇₇, h₆₇₈, h₆₇₉, h₆₈₀, h₆₈₁, h₆₈₂, h₆₈₃, h₆₈₄, h₆₈₅, h₆₈₆, h₆₈₇, h₆₈₈, h₆₈₉, h₆₉₀, h₆₉₁, h₆₉₂, h₆₉₃, h₆₉₄, h₆₉₅, h₆₉₆, h₆₉₇, h₆₉₈, h₆₉₉, h₇₀₀, h₇₀₁, h₇₀₂, h<

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG RB-01 Page 1 of 1
 WEI Job No.: 412-02-01
 Datum: NGVD
 Elevation: ft
 North: ft
 East: ft
 Station: ft
 Offset: ft

Client: **Wills, Burke, Kelsey & Associates**
 Project: **IL 173 over Nippersink Creek**
 Location: **Hebron, IL**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
7.0	3-inch thick Crushed stone and asphalt --SHOULDER--	0.0	1	NP		7.0		0.0			
10.0	Loose, brown and gray GRAVELLY LOAM --FILL--	0.0 to 10.0	2	NP		10.0		0.0 to 10.0			
10.0	Loose to medium dense, brown LOAM, little gravel	10.0 to 10.0	3	NP		10.0		10.0 to 10.0			
Boring terminated at 6.00 ft											

GENERAL NOTES
 Begin Drilling: 06-23-2010 Complete Drilling: 06-23-2010
 Drilling Contractor: GSG Drill Rig: Diedrich D-50 TMR
 Driller: J&M Logger: B. Wilson Checked by: NA
 Drilling Method: 3.25 IDA HSA; boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG RB-02 Page 1 of 1
 WEI Job No.: 412-02-01
 Datum: NGVD
 Elevation: ft
 North: ft
 East: ft
 Station: ft
 Offset: ft

Client: **Wills, Burke, Kelsey & Associates**
 Project: **IL 173 over Nippersink Creek**
 Location: **Hebron, IL**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
6.0	4-inch thick Crushed stone and asphalt --SHOULDER--	0.0	1	NP		6.0		0.0			
12.5	Loose, brown GRAVELLY LOAM --FILL--	0.0 to 12.5	2	125		12.5		0.0 to 12.5			
28.0	Stiff, brown SILTY CLAY	12.5 to 28.0	3	0.50		28.0		12.5 to 28.0			
23.0	Medium stiff, brown SILTY CLAY LOAM	28.0 to 23.0	4	0.25		23.0		28.0 to 23.0			
14.0	Loose, brown LOAM, some gravel	23.0 to 14.0	5	NP		14.0		23.0 to 14.0			
14.0	Vary soft to soft, brown SILTY CLAY LOAM, trace gravel	14.0 to 14.0	6	0.25		14.0		14.0 to 14.0			
11.0		14.0 to 11.0	7	0.25		11.0		14.0 to 11.0			
10.0	Vary stiff, brown SILTY CLAY LOAM, trace gravel	11.0 to 10.0	8	2.00		10.0		11.0 to 10.0			
Boring terminated at 14.00 ft											

GENERAL NOTES
 Begin Drilling: 06-23-2010 Complete Drilling: 06-23-2010
 Drilling Contractor: GSG Drill Rig: Diedrich D-50 TMR
 Driller: J&M Logger: B. Wilson Checked by: NA
 Drilling Method: 3.25 IDA HSA; boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
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 1145 N Main Street
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 Fax: 630 953-9938

BORING LOG RB-03 Page 1 of 1
 WEI Job No.: 412-02-01
 Datum: NGVD
 Elevation: ft
 North: ft
 East: ft
 Station: ft
 Offset: ft

Client: **Wills, Burke, Kelsey & Associates**
 Project: **IL 173 over Nippersink Creek**
 Location: **Hebron, IL**

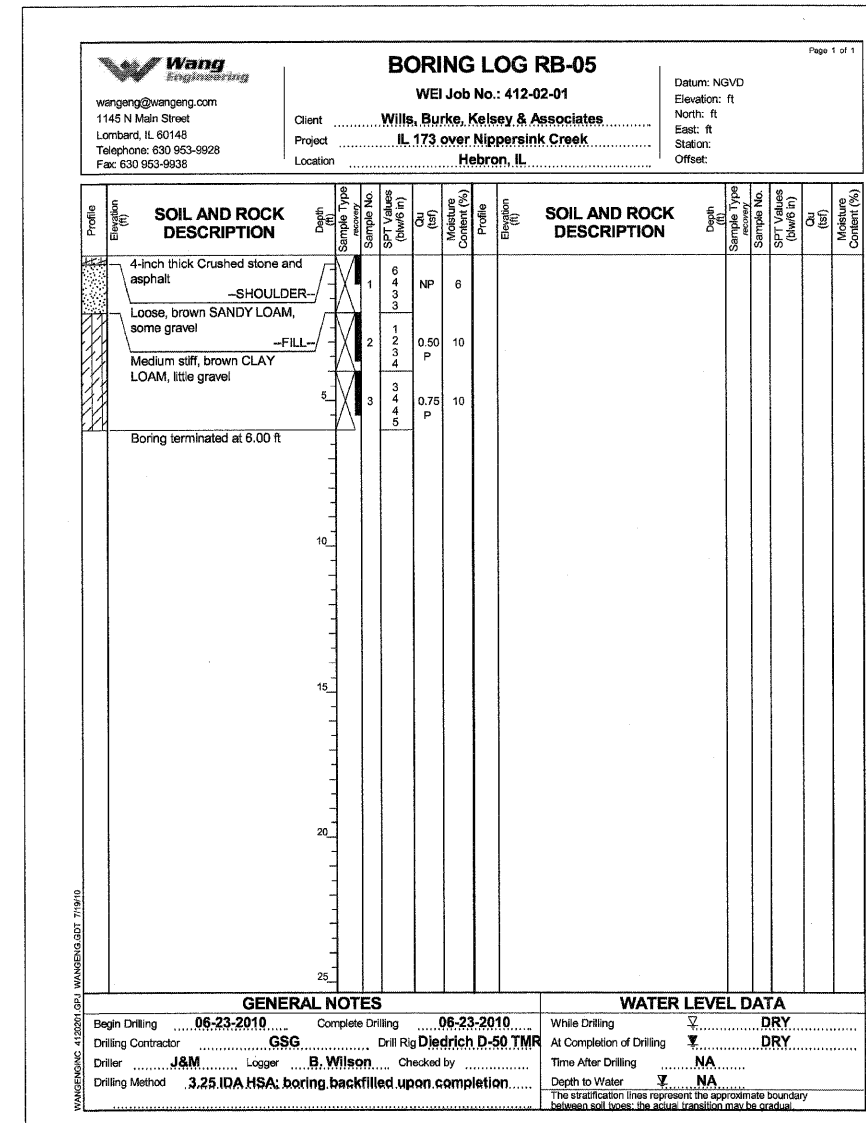
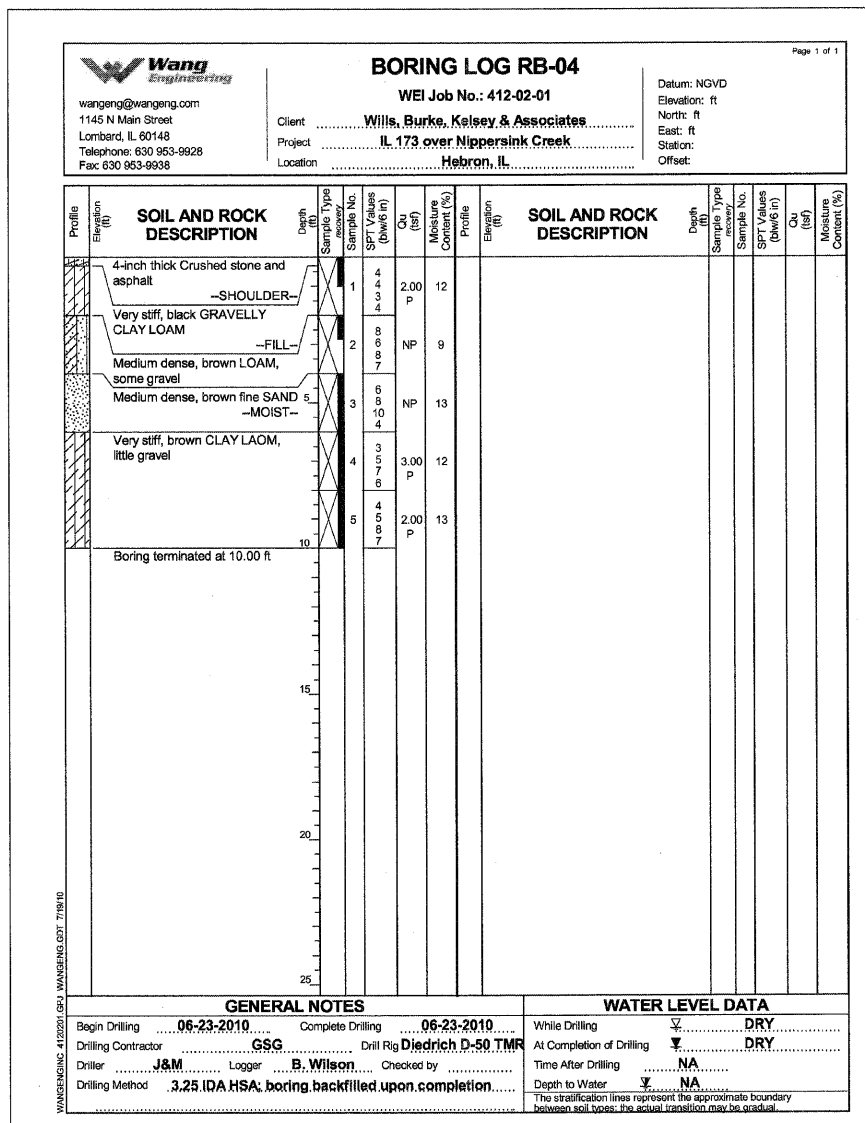
Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
5.0	4-inch thick Crushed stone and asphalt --SHOULDER--	0.0	1	NP		5.0		0.0			
13.0	Loose, brown GRAVELLY LOAM --FILL--	0.0 to 13.0	2	0.75		13.0		0.0 to 13.0			
25.0	Medium stiff, brown LOAM, some gravel --FILL--	13.0 to 25.0	3	0.50		25.0		13.0 to 25.0			
23.0	3-inch thick black SILTY CLAY --BURIED TOPSOIL--	25.0 to 23.0	4	0.50		23.0		25.0 to 23.0			
20.0	Medium stiff, brown SILTY CLAY Soft, brown CLAY LOAM	23.0 to 20.0	5	0.25		20.0		23.0 to 20.0			
9.0	Medium dense, brown GRAVELLY SAND	20.0 to 9.0	6	NP		9.0		20.0 to 9.0			
Boring terminated at 12.00 ft											

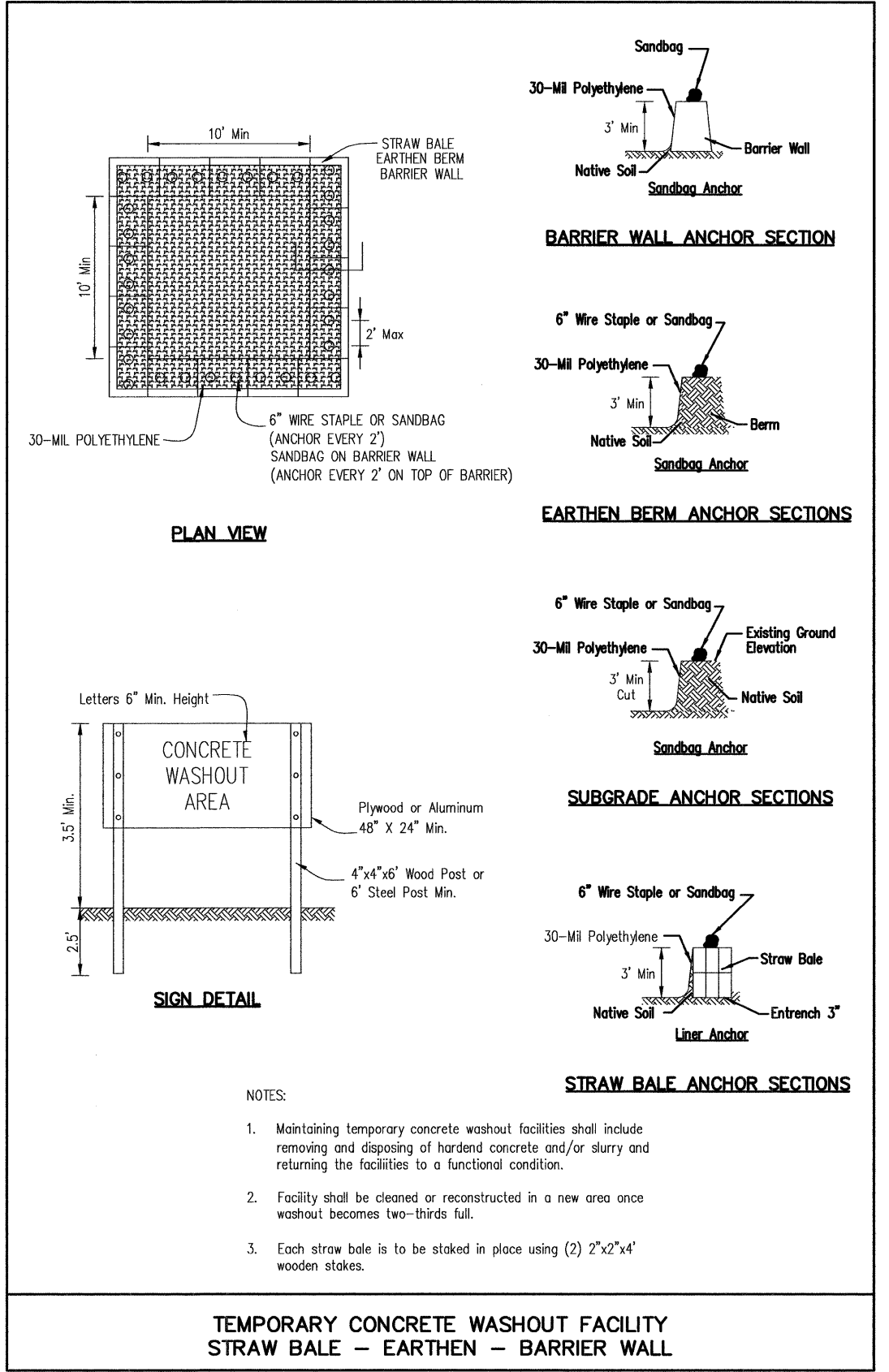
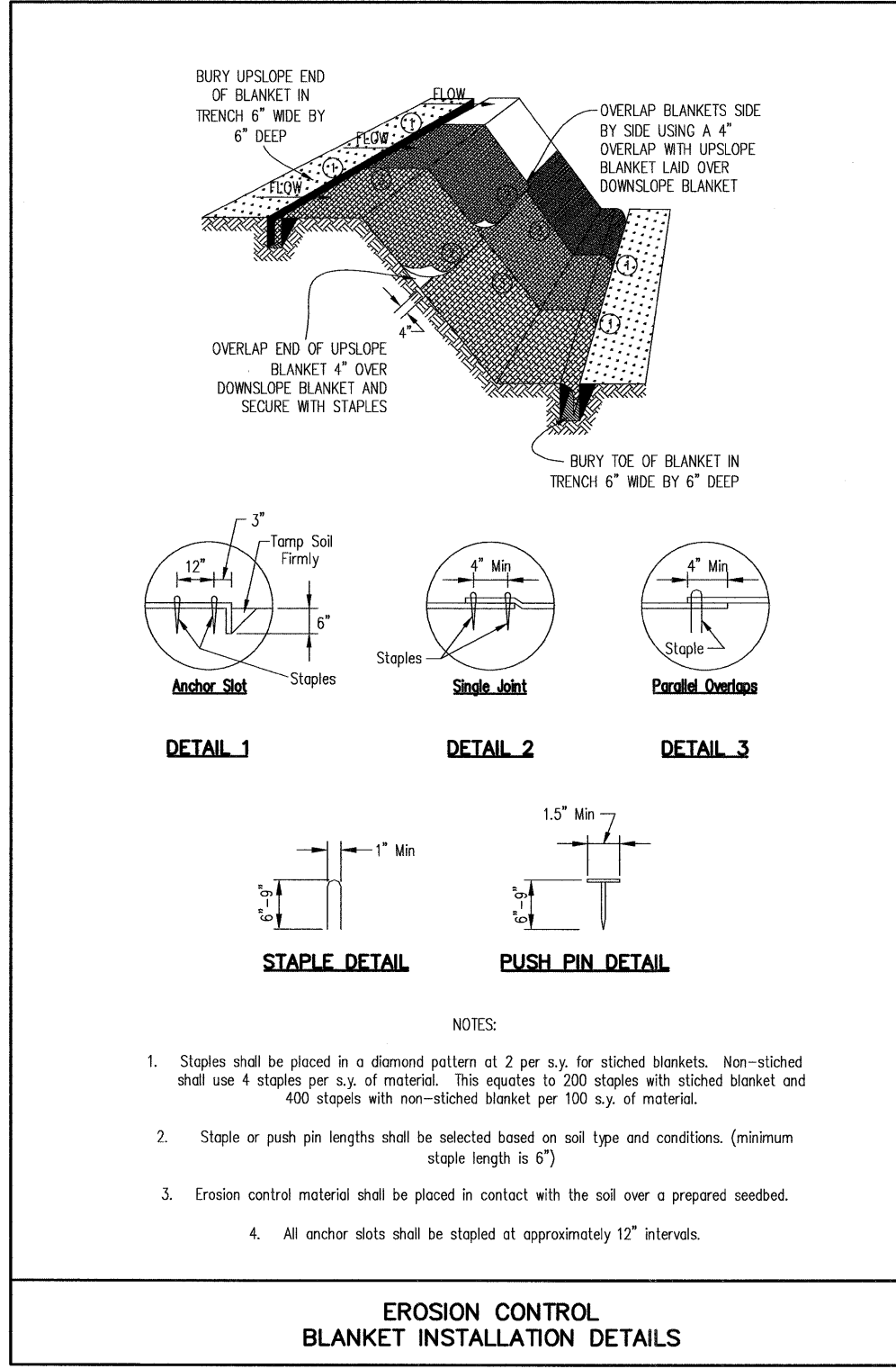
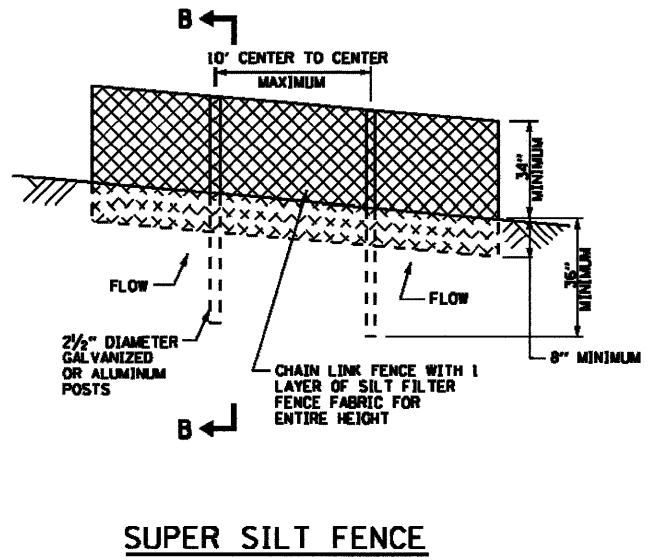
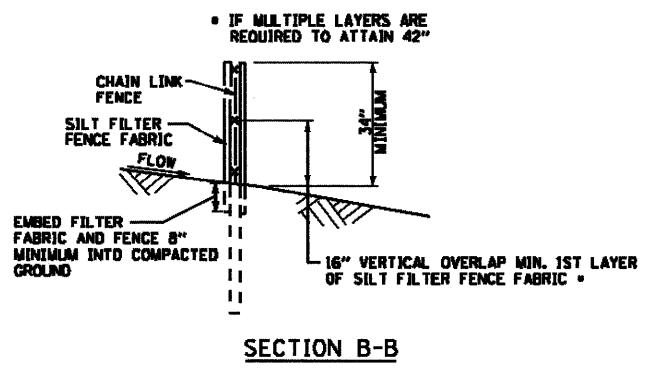
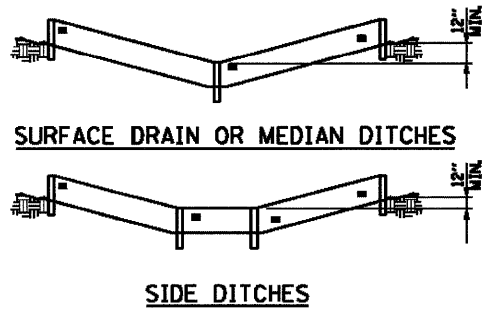
GENERAL NOTES
 Begin Drilling: 06-23-2010 Complete Drilling: 06-23-2010
 Drilling Contractor: GSG Drill Rig: Diedrich D-50 TMR
 Driller: J&M Logger: B. Wilson Checked by: NA
 Drilling Method: 3.25 IDA HSA; boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: DRY
 At Completion of Drilling: DRY
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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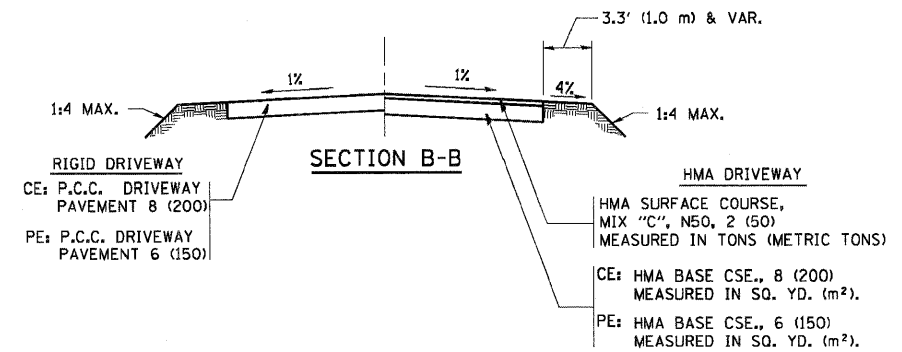
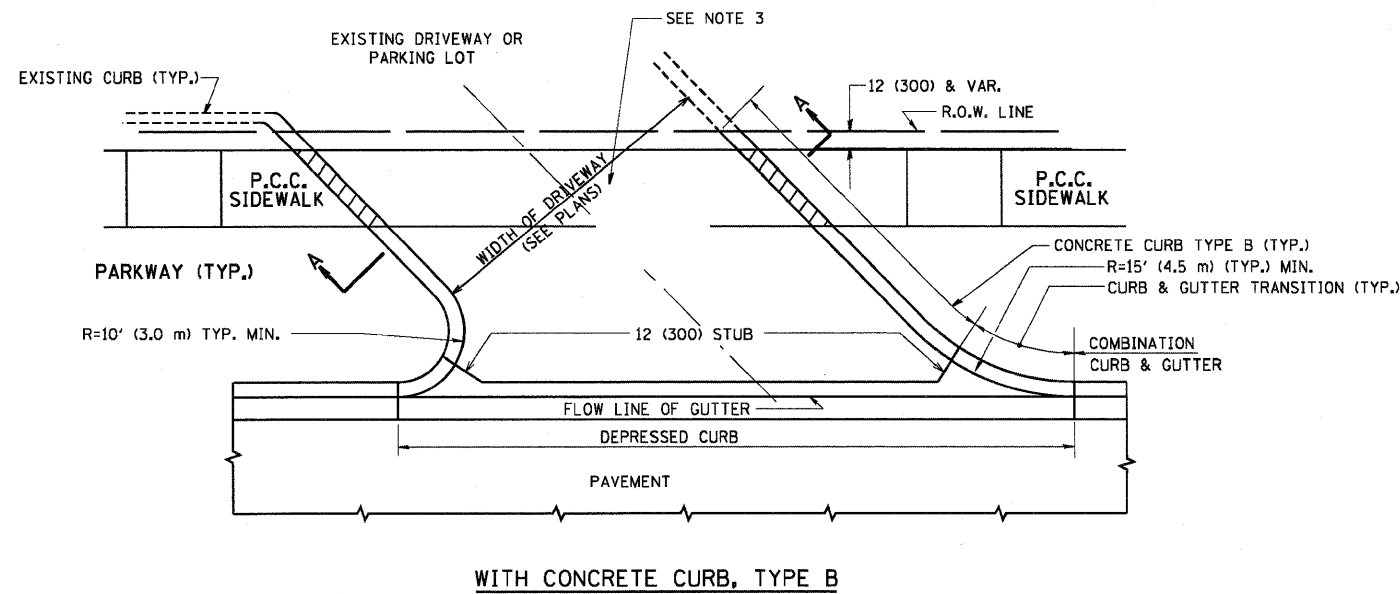
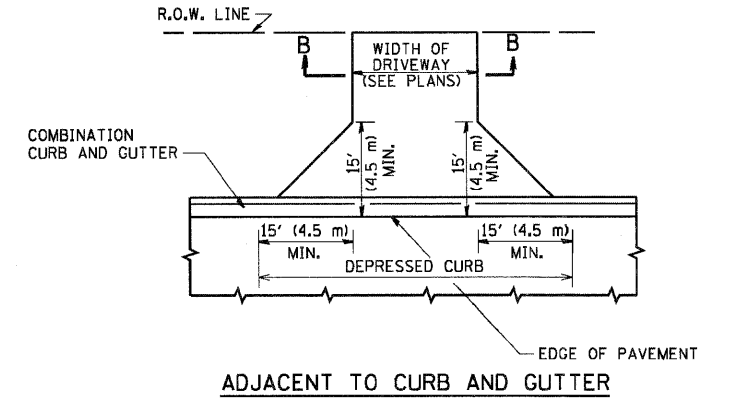
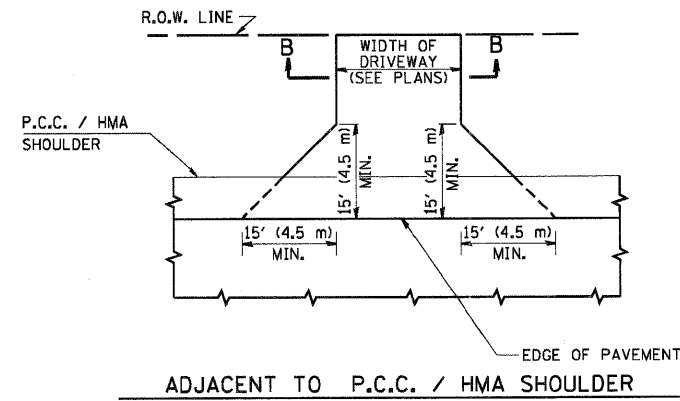
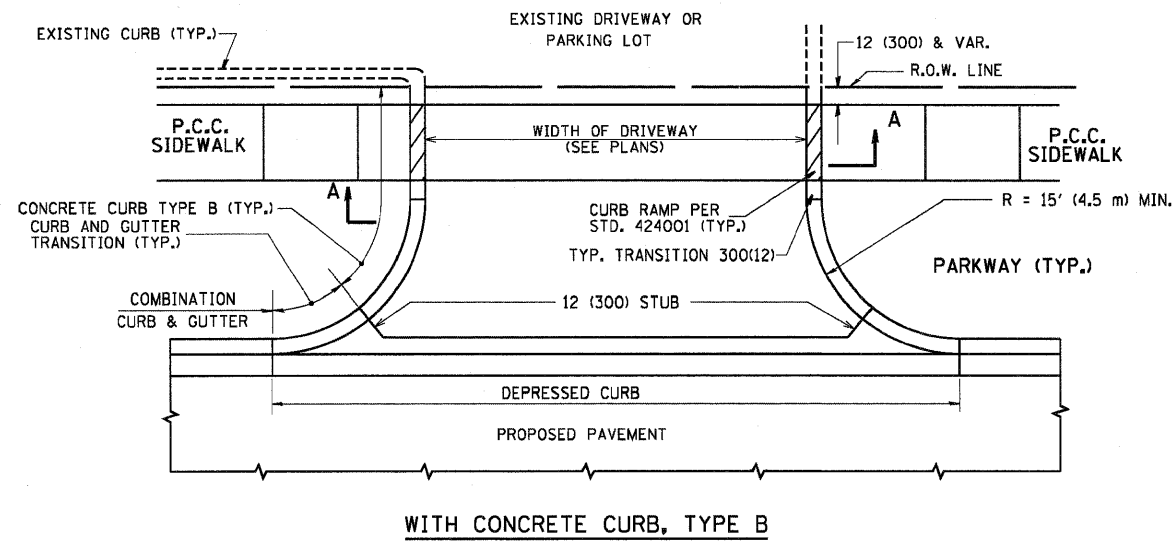


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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/26/2011	CHECKED -	REVISED -
	DATE - 1/25/11	REVISED -

EROSION CONTROL DETAILS	
SCALE:	SHEET NO. 78 OF 106 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 78
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60I29	



RURAL FIELD ENTRANCE (FE)

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

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

GENERAL NOTES:

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

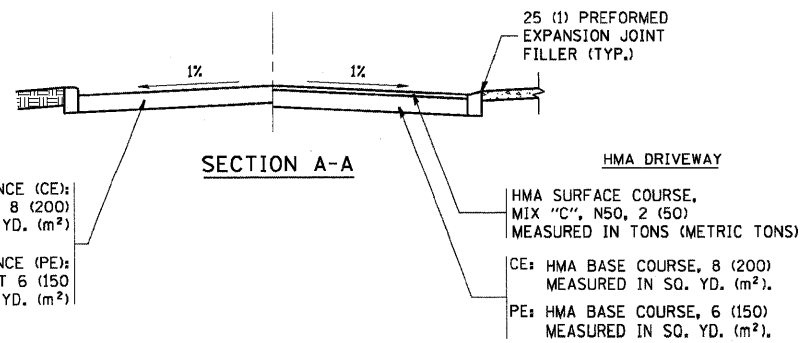
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



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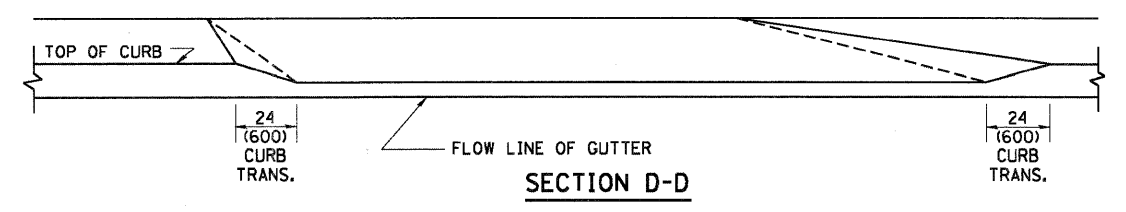
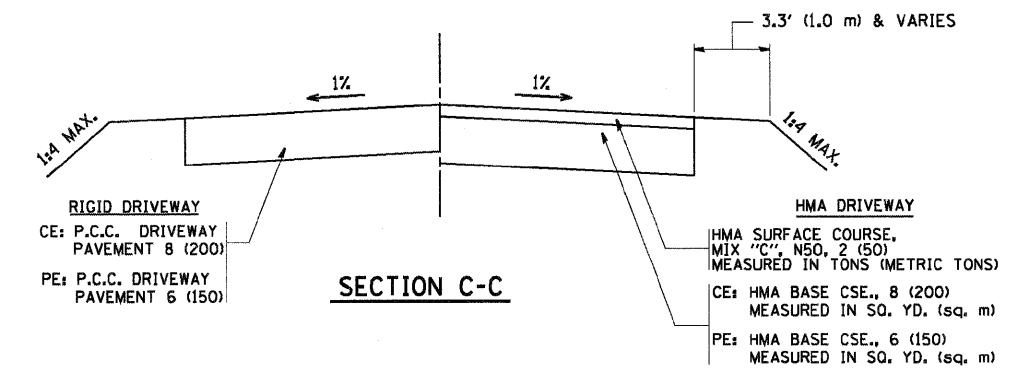
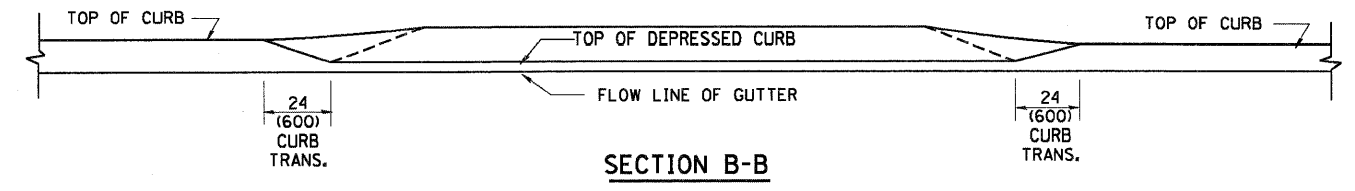
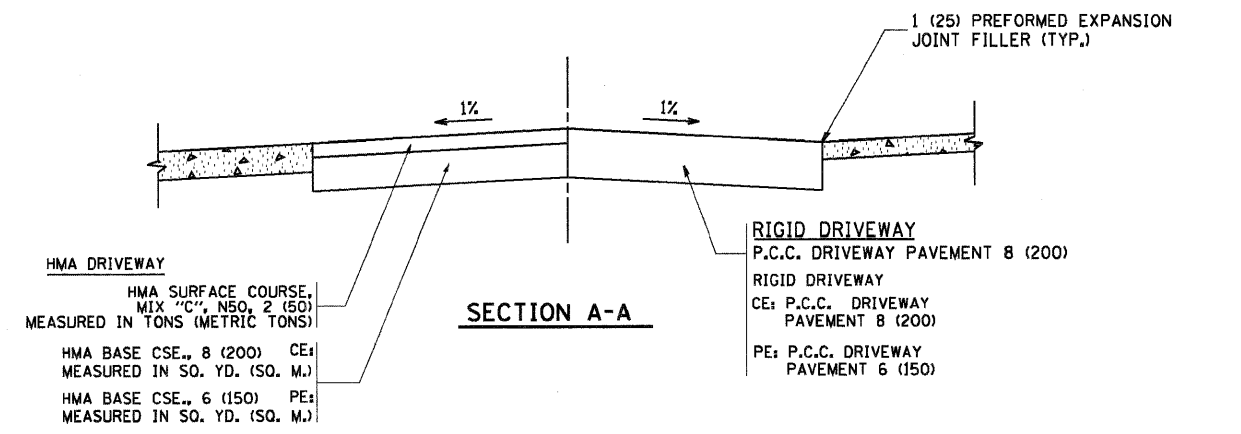
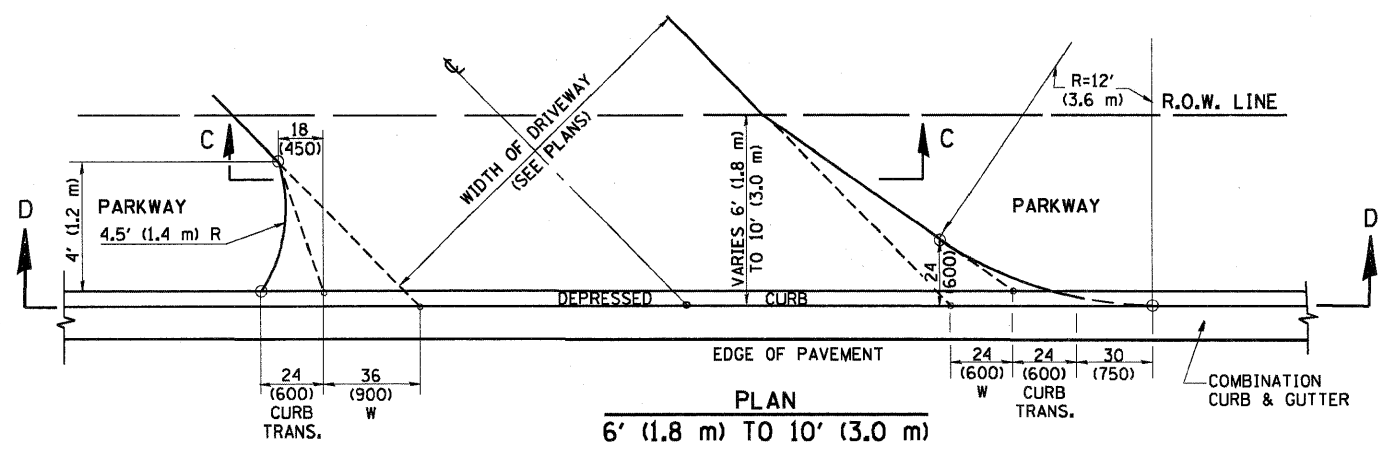
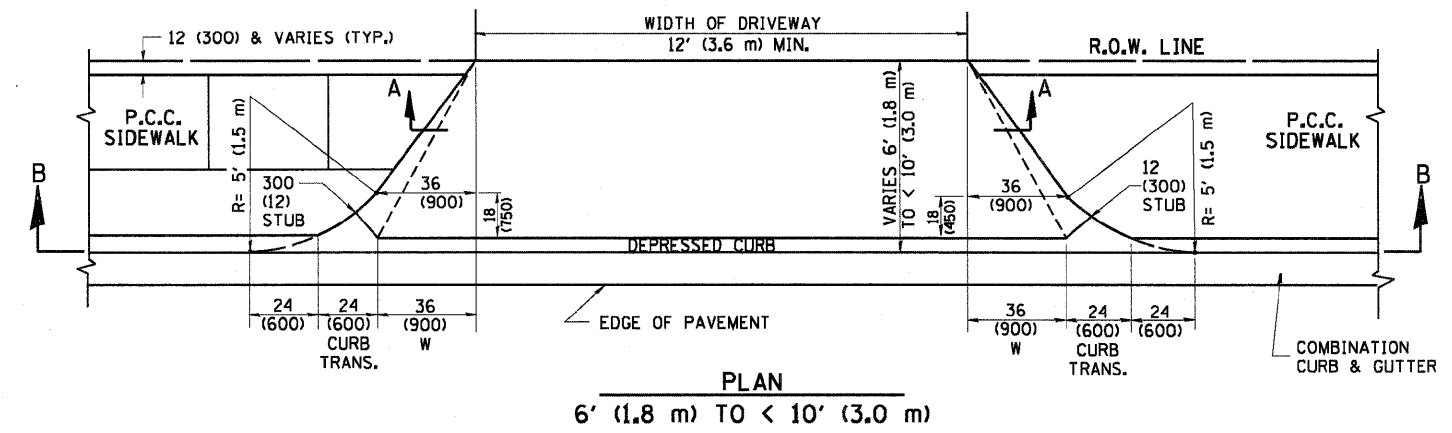
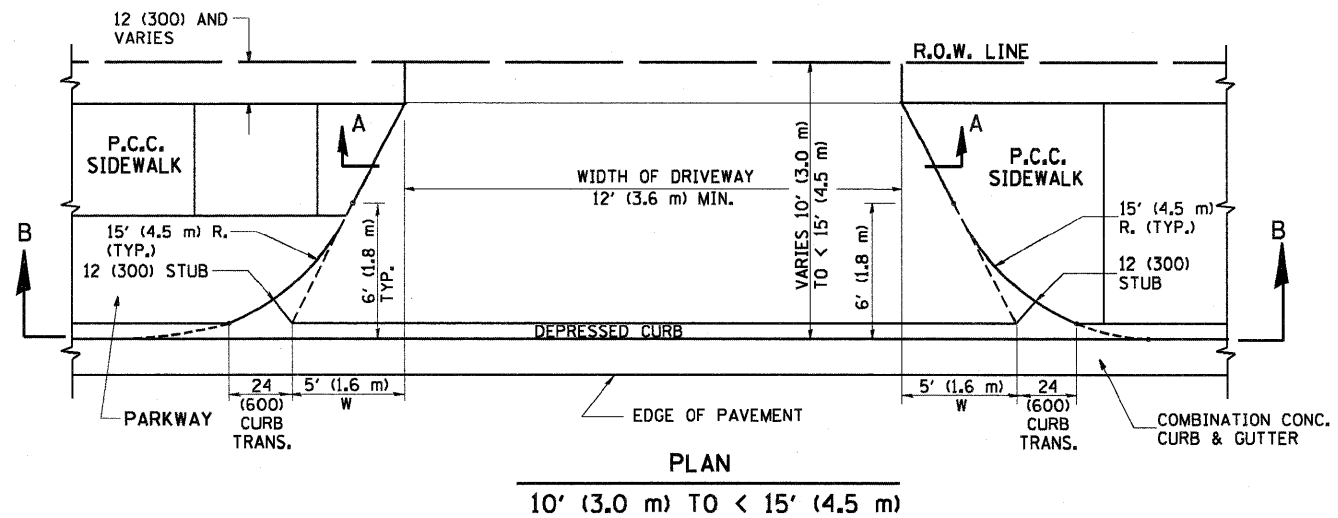
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	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	79
BD0156-07 (BD-01)			CONTRACT NO.60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS", FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

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

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

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

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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DRAWN -	REVISED - M. GOMEZ 04-06-01
CHECKED -	REVISED - P. LOFLEUR 04-15-03
DATE - 11-06-95	REVISED - R. BORO 01-01-07

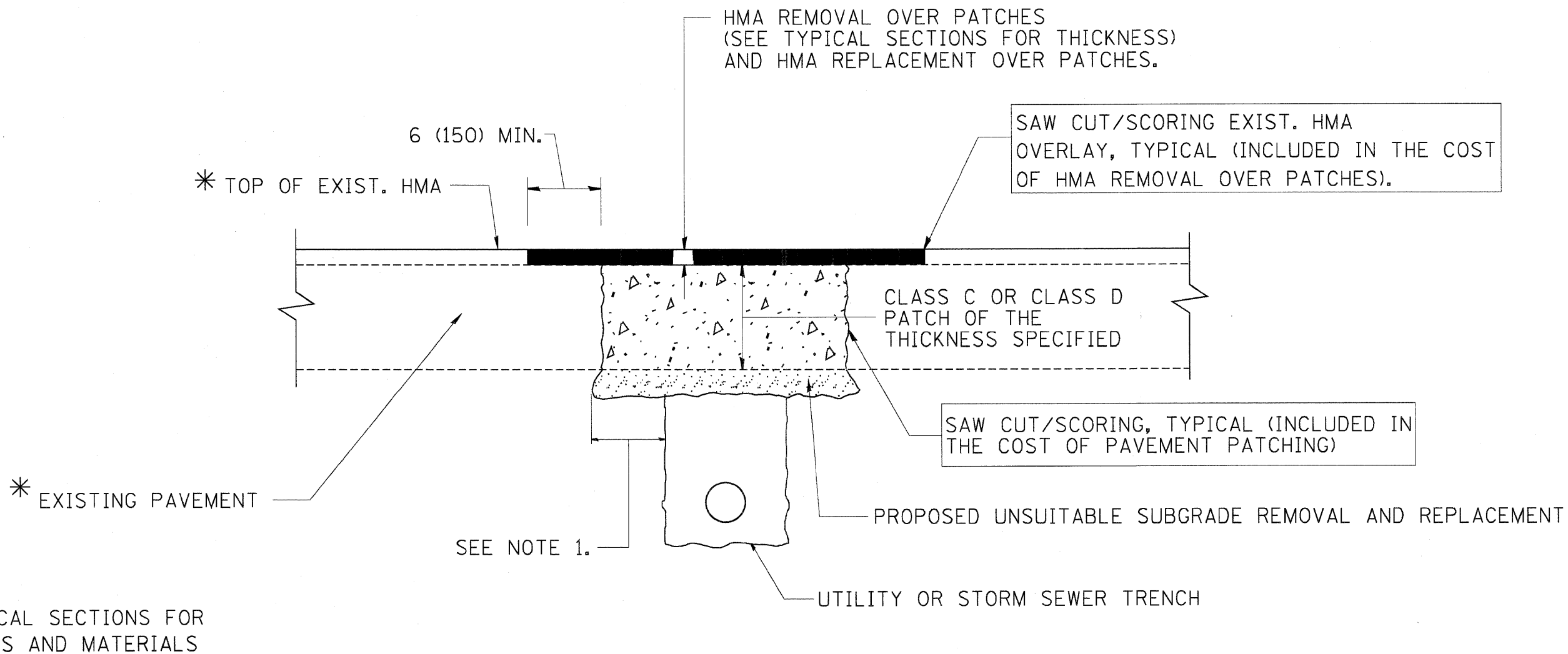
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DATE - 11-06-95	REVISED - R. BORO 01-01-07

DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97
DRAWN -	REVISED - M. GOMEZ 04-06-01
CHECKED -	REVISED - P. LOFLEUR 04-15-03
DATE - 11-06-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 80
BD400-02 (BD-02)			CONTRACT NO. 60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 80
BD400-02 (BD-02)			CONTRACT NO. 60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

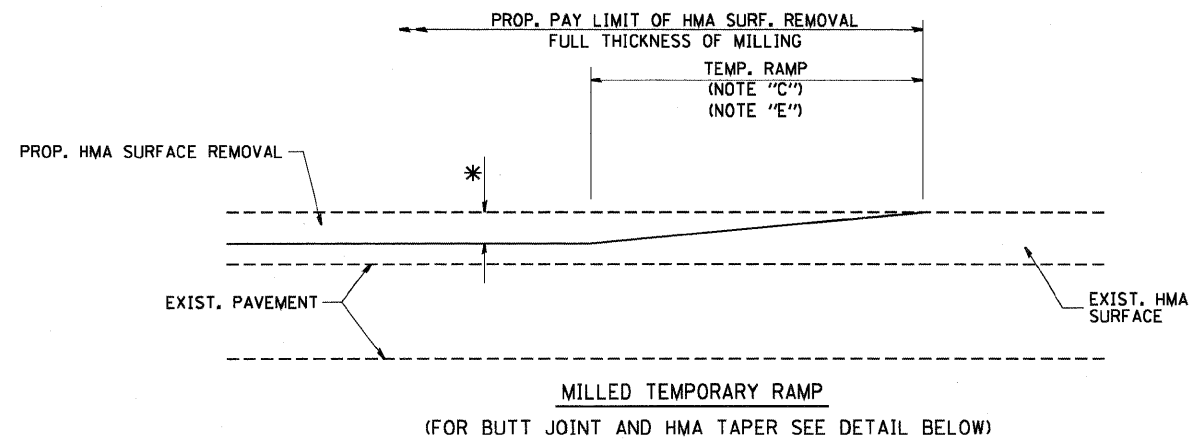
SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

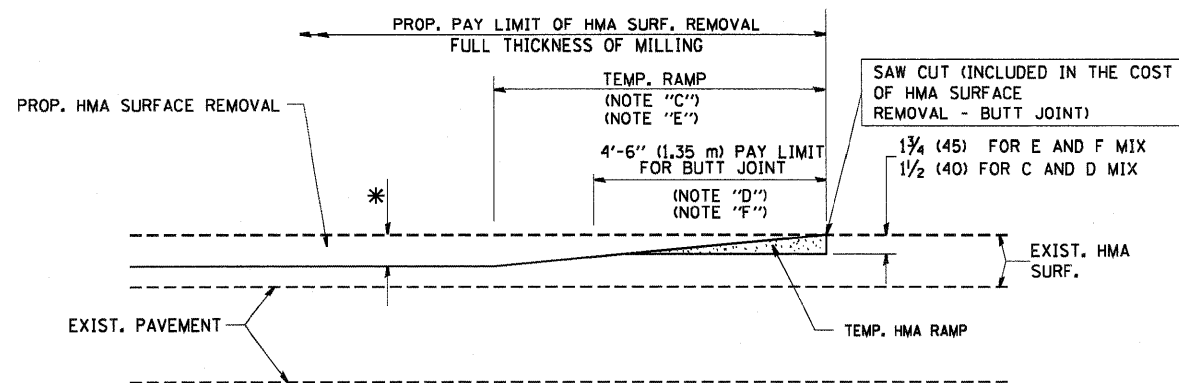
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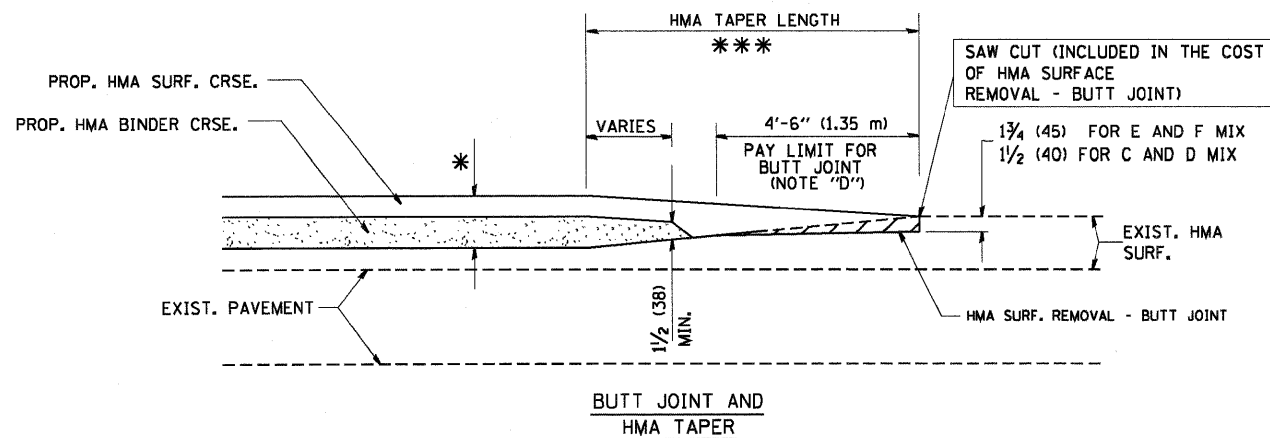
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		DRAWN -	REVISED - A. ABBAS 04-27-98		303	132 B-2	McHENRY	106	82			
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PLOT DATE = 1/4/2008		DATE - 10-25-94	REVISED - R. BORO 09-04-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



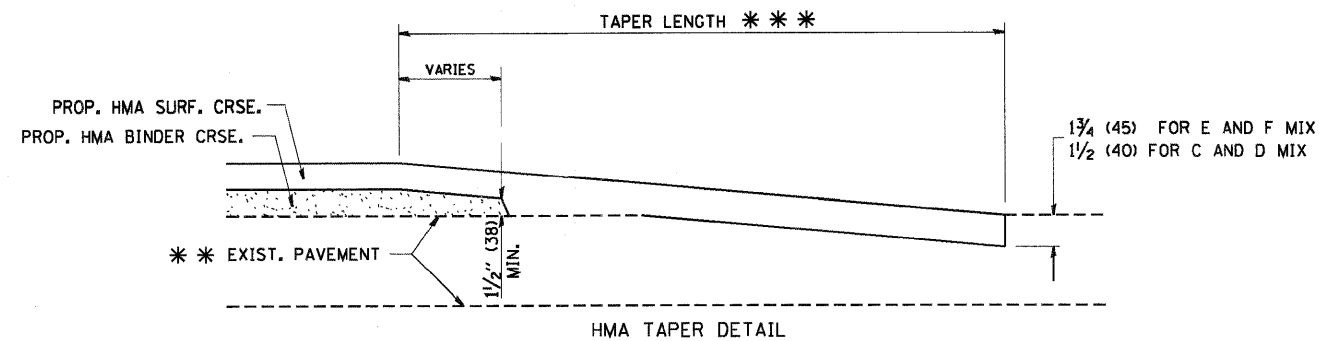
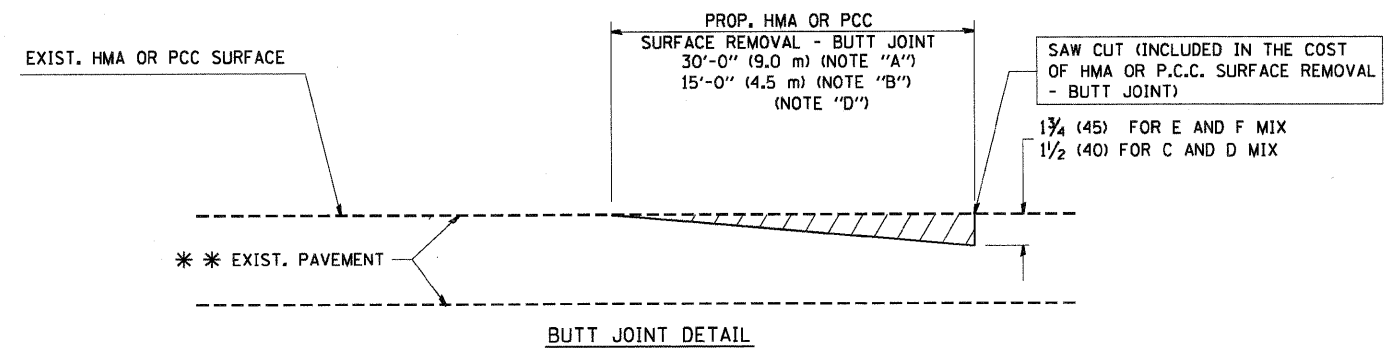
OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

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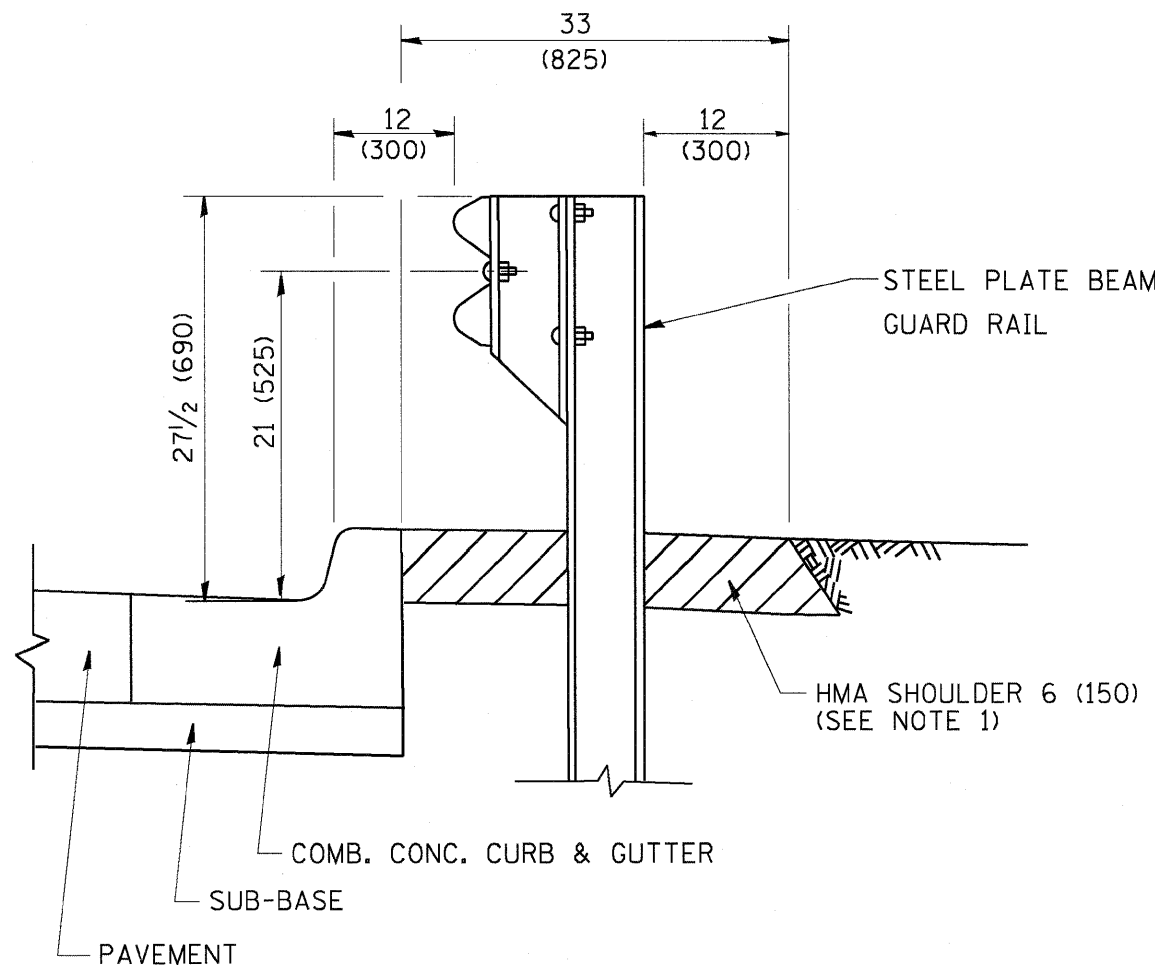
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DRAWN -	REVISED - A. ABBAS 03-21-97
CHECKED -	REVISED - M. GOMEZ 04-06-01
DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-05 BD32			CONTRACT NO. 60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

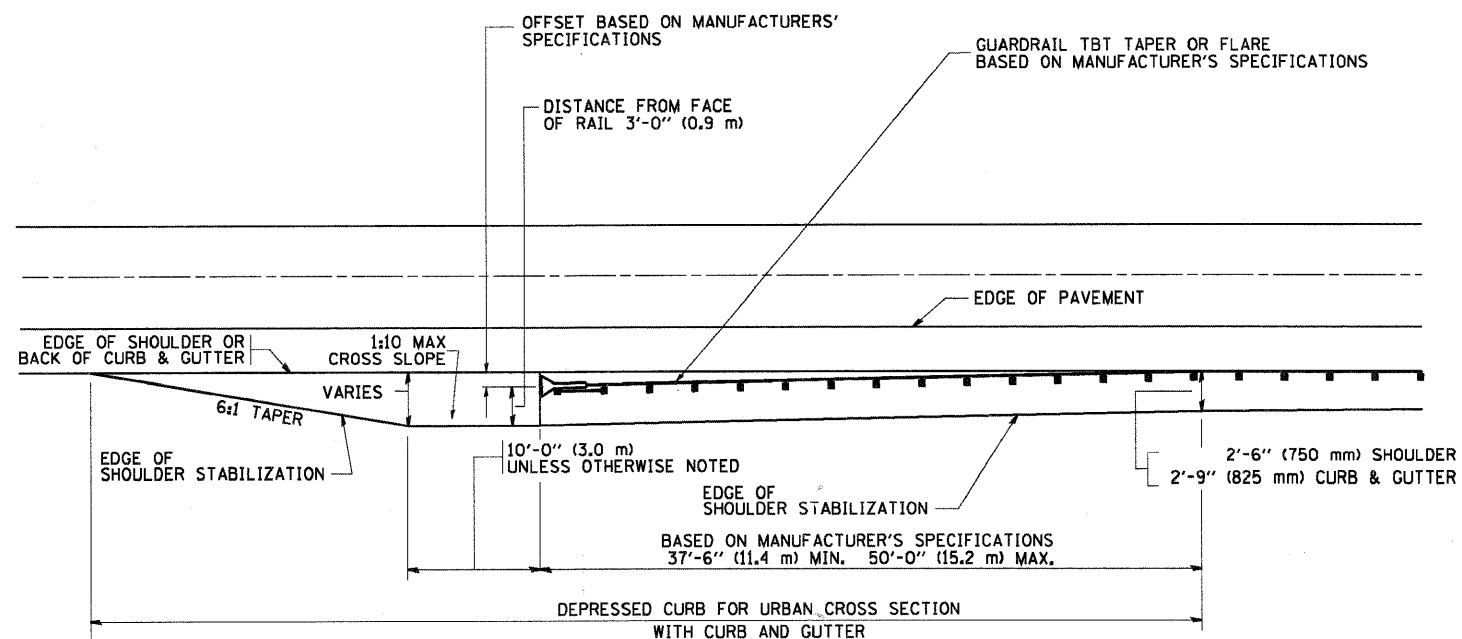


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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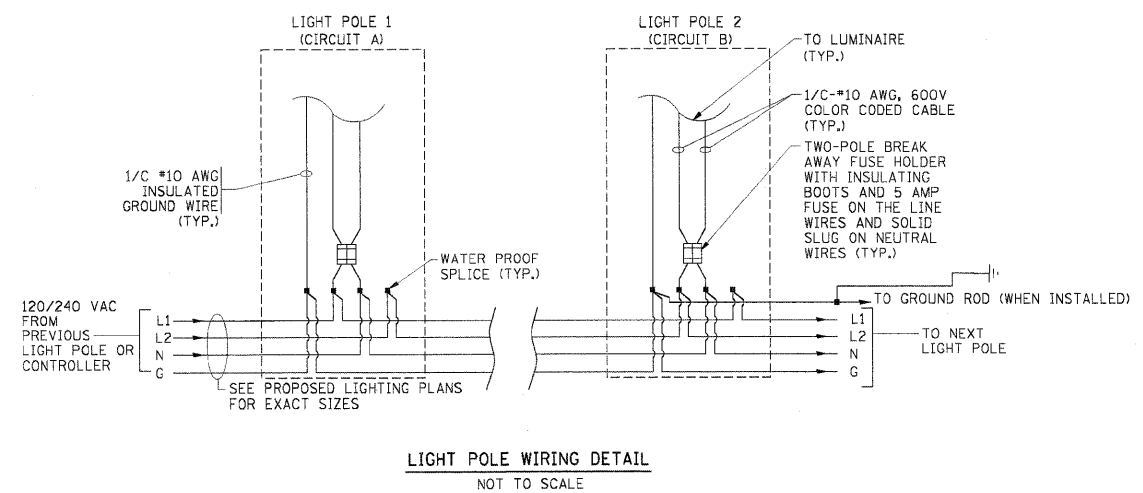
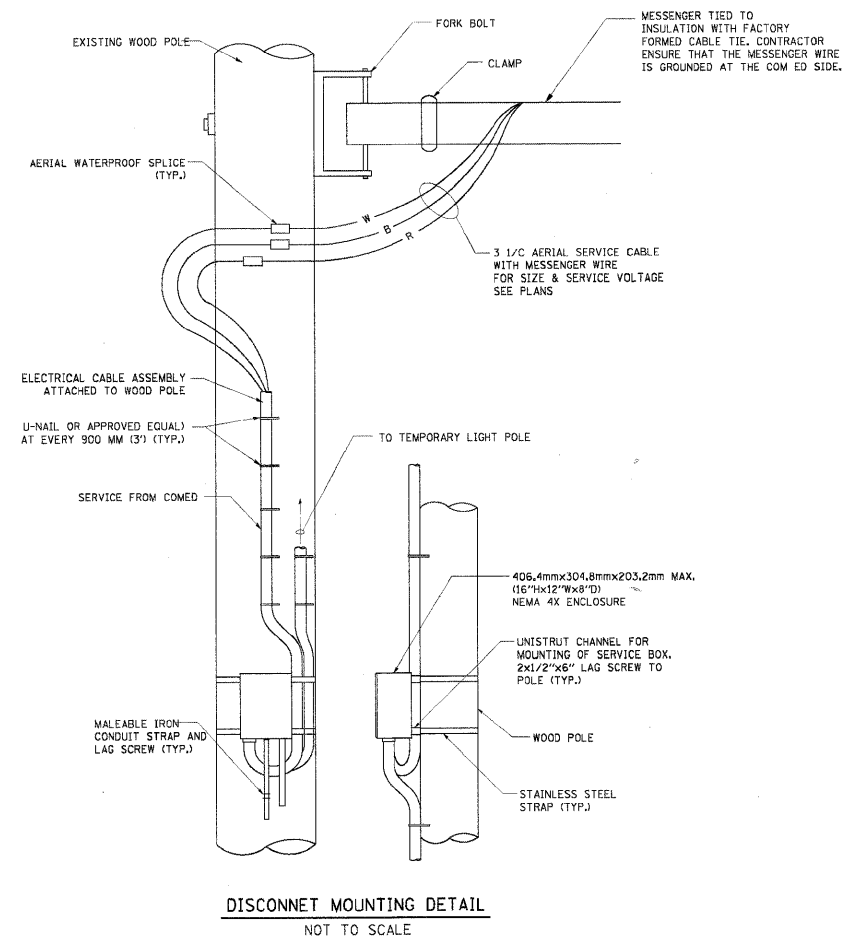
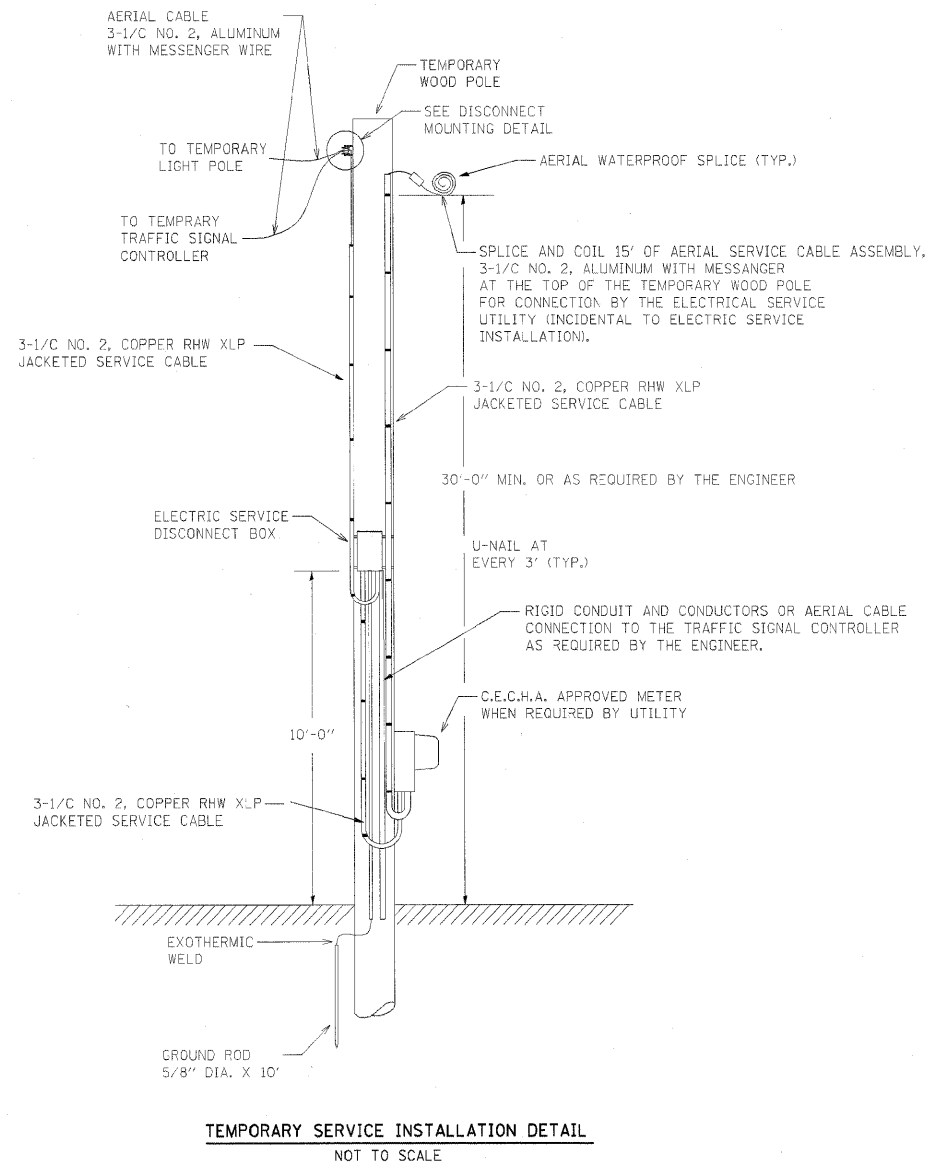
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	PLOT DATE = 1/4/2008	DATE - 09-22-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

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

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 84
BD600-10 (BD 34)			CONTRACT NO. 60I29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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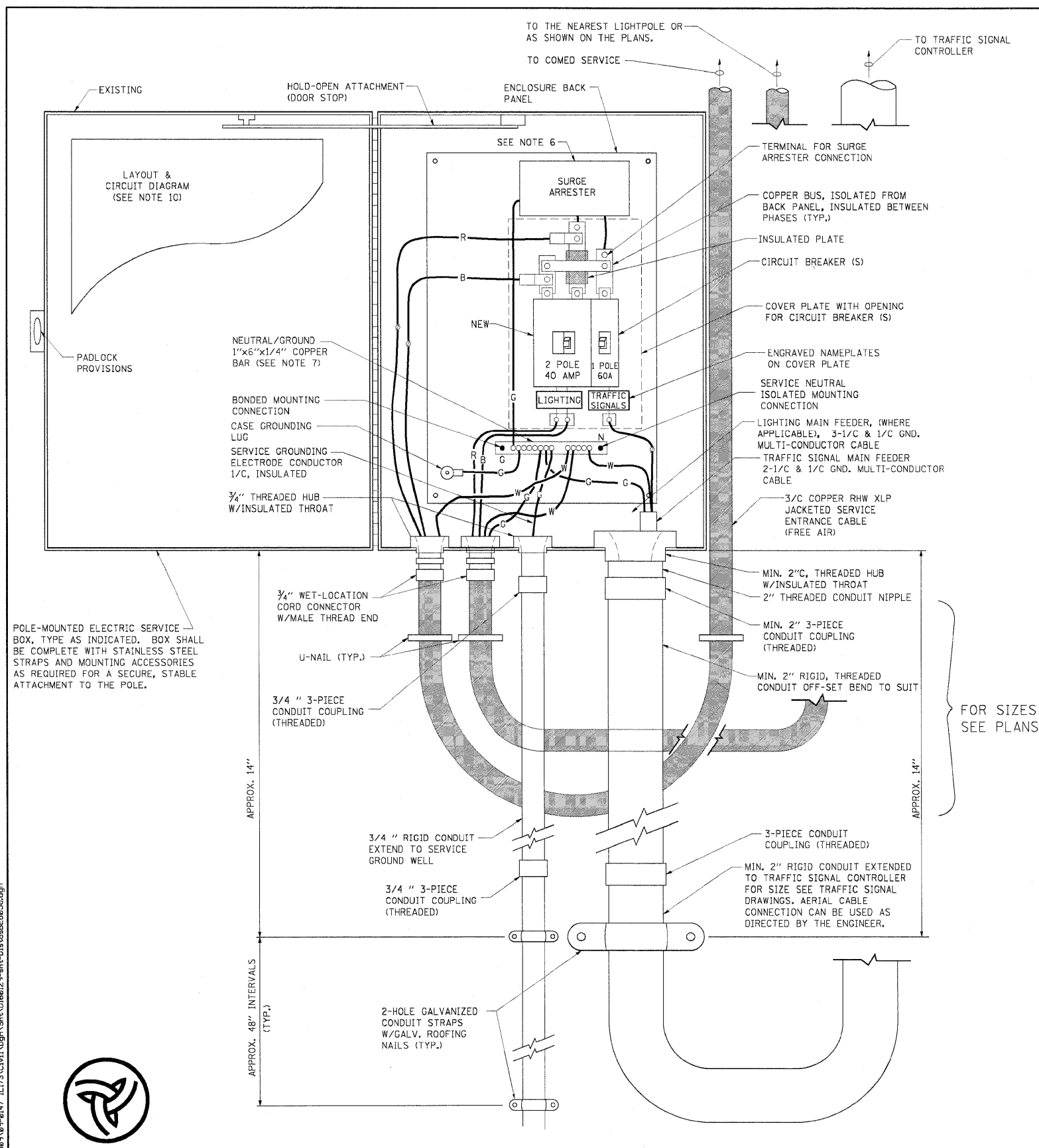
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PLOT DATE = 1/14/2010		DATE - 01/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING AND TRAFFIC SIGNALS
FOR SINGLE LANE STAGING**

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	87
BE-805		CONTRACT NO. 60129		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

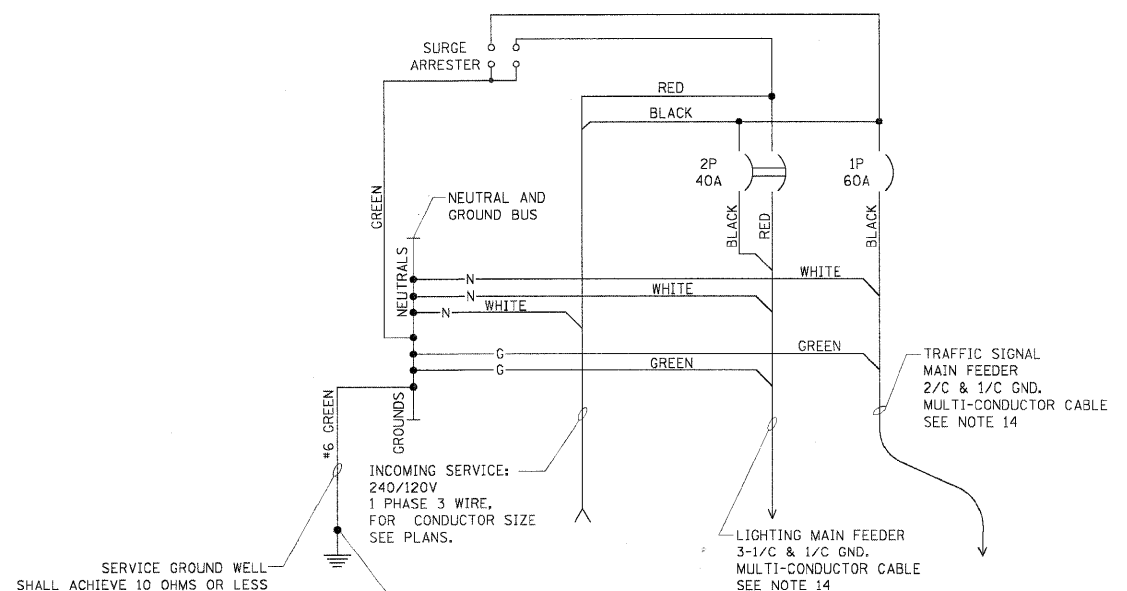
SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM
NOT TO SCALE

NOTES:

1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
2. THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EQUAL.
7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
12. LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



SCHEMATIC DIAGRAM

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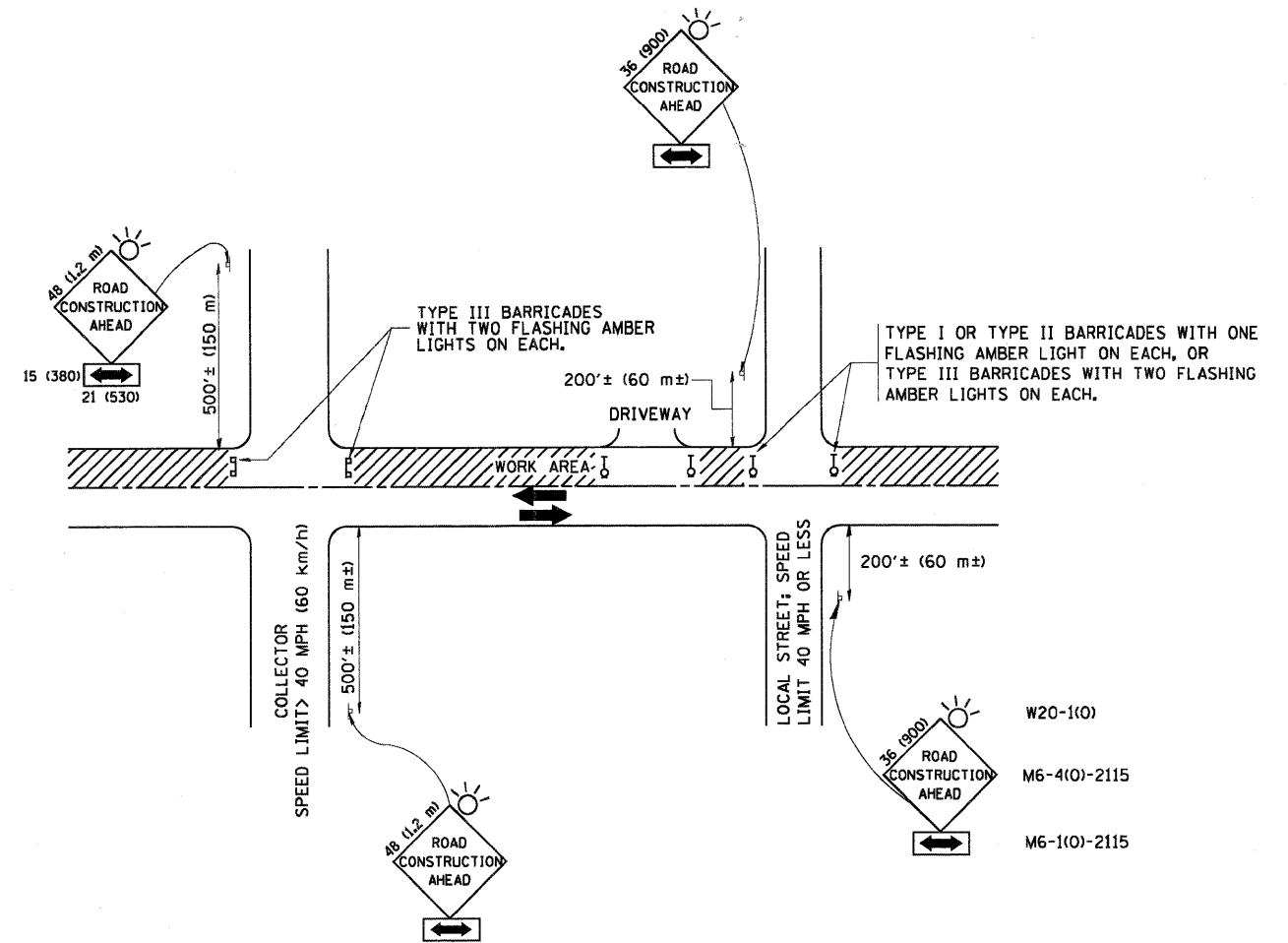
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING AND TRAFFIC SIGNALS
FOR SINGLE LANE STAGING

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 88
BE-805		CONTRACT NO. 60129		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

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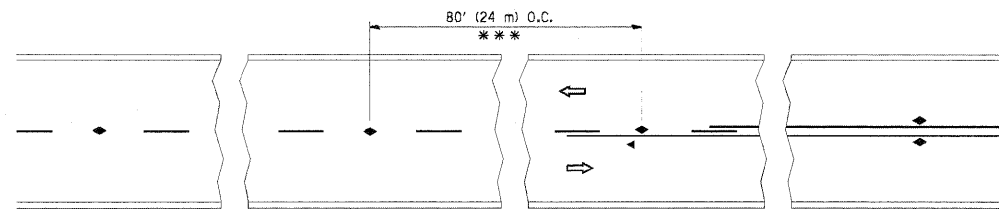
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		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

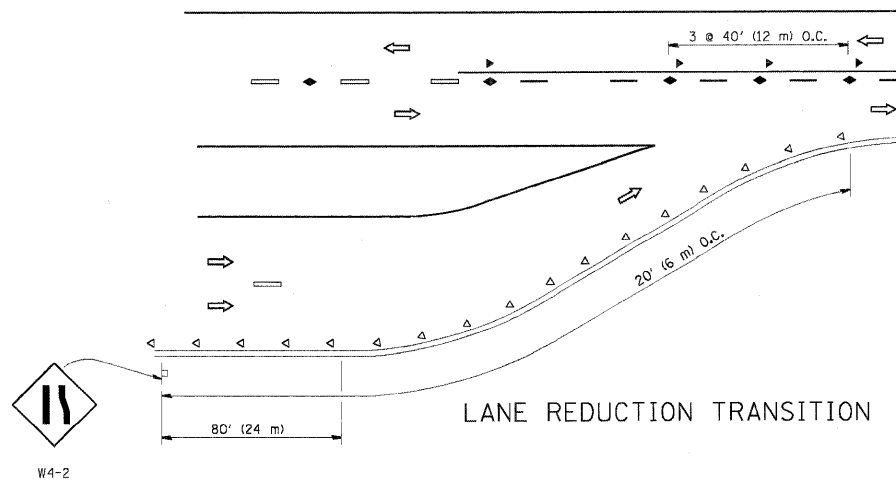
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

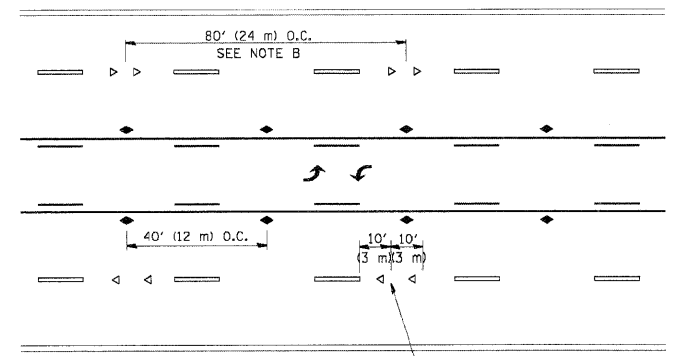


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

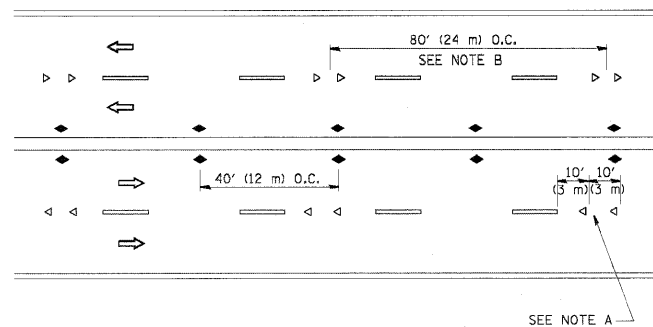
TWO-LANE/TWO-WAY



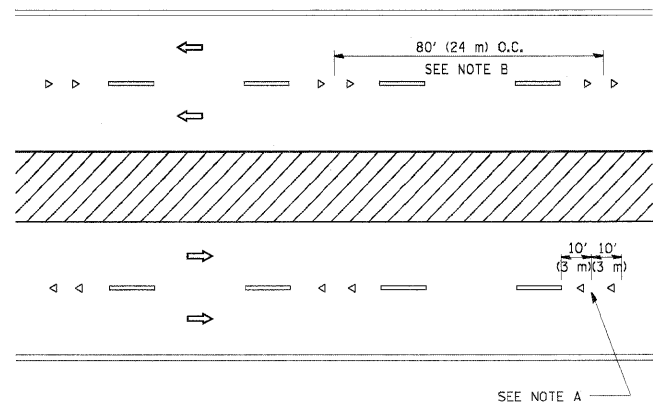
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

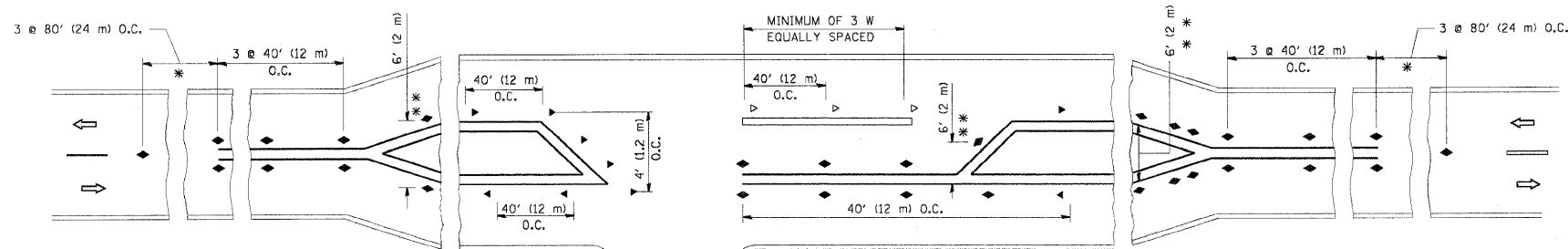
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



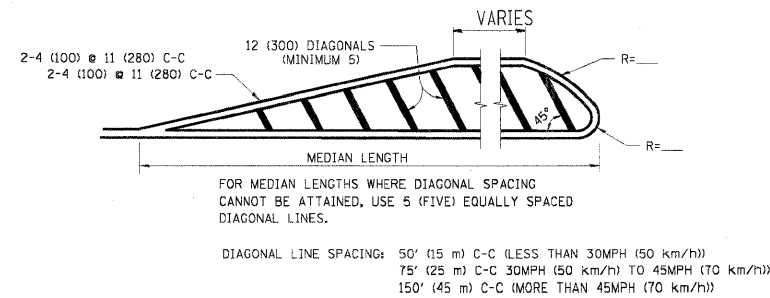
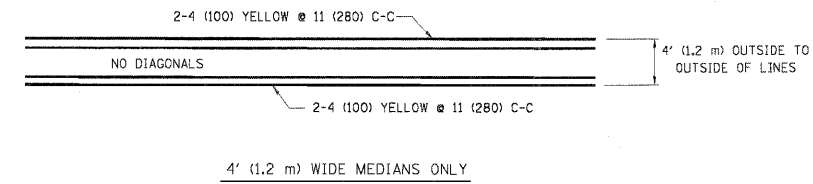
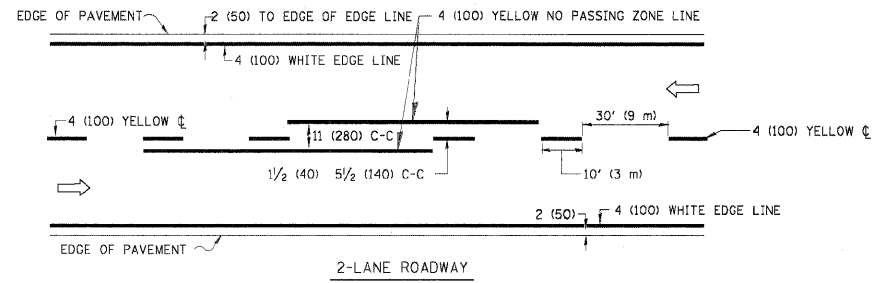
LEFT TURN

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

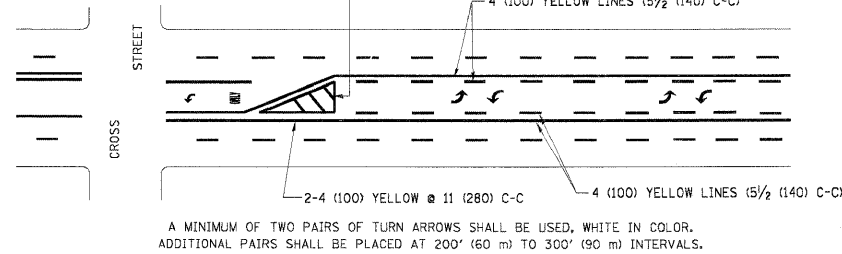
All dimensions are in inches (millimeters) unless otherwise shown.

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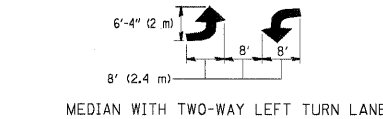
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		DRAWN -	REVISED - T. RAMMACHER 03-12-99		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11		CONTRACT NO. 60I29			
		PLOT SCALE = 50,000' / IN.	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		PLOT DATE = 9/9/2009	REVISED - C. JUCCIUS 09-09-09									



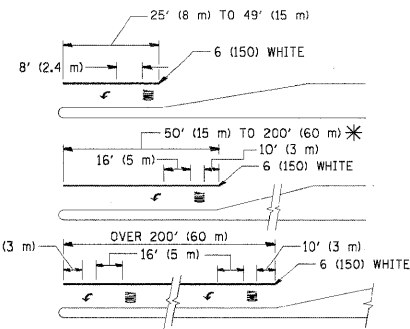
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING



TYPICAL PAINTED MEDIAN MARKING

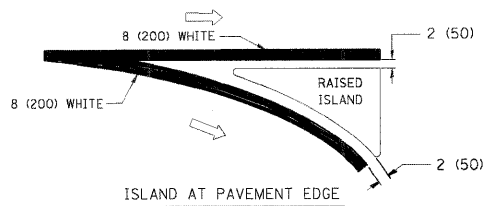
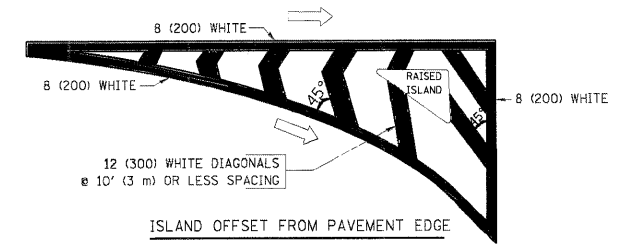


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

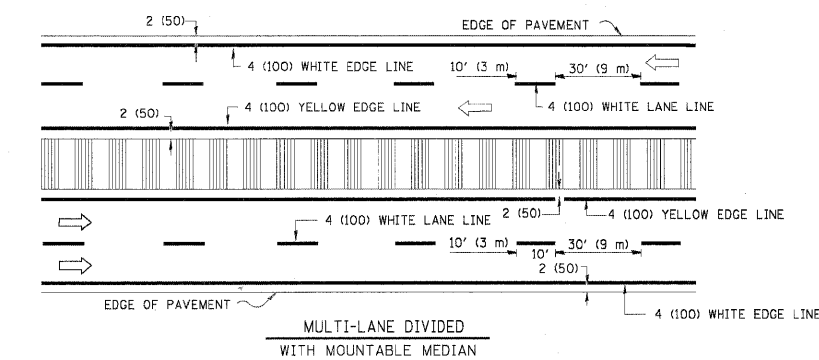
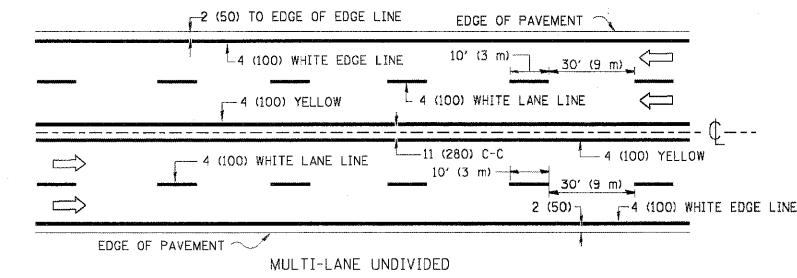
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

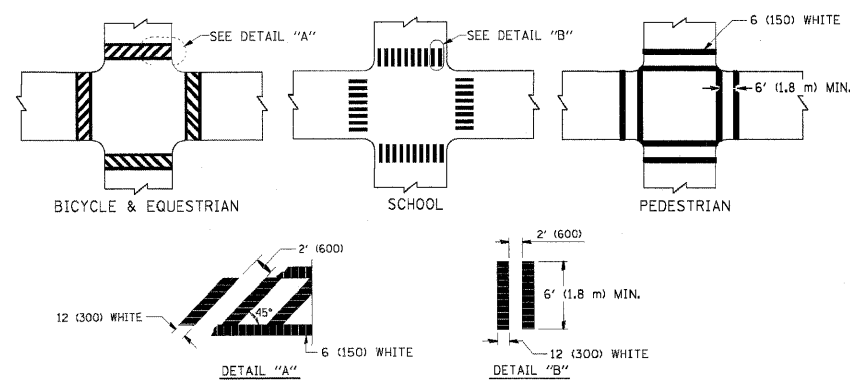


TYPICAL ISLAND MARKING



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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LANE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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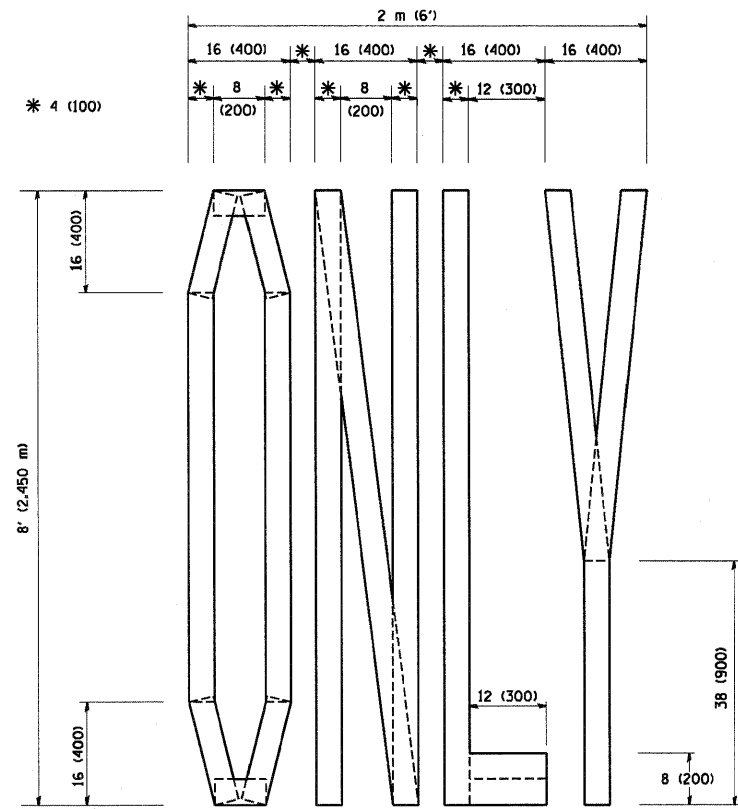
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

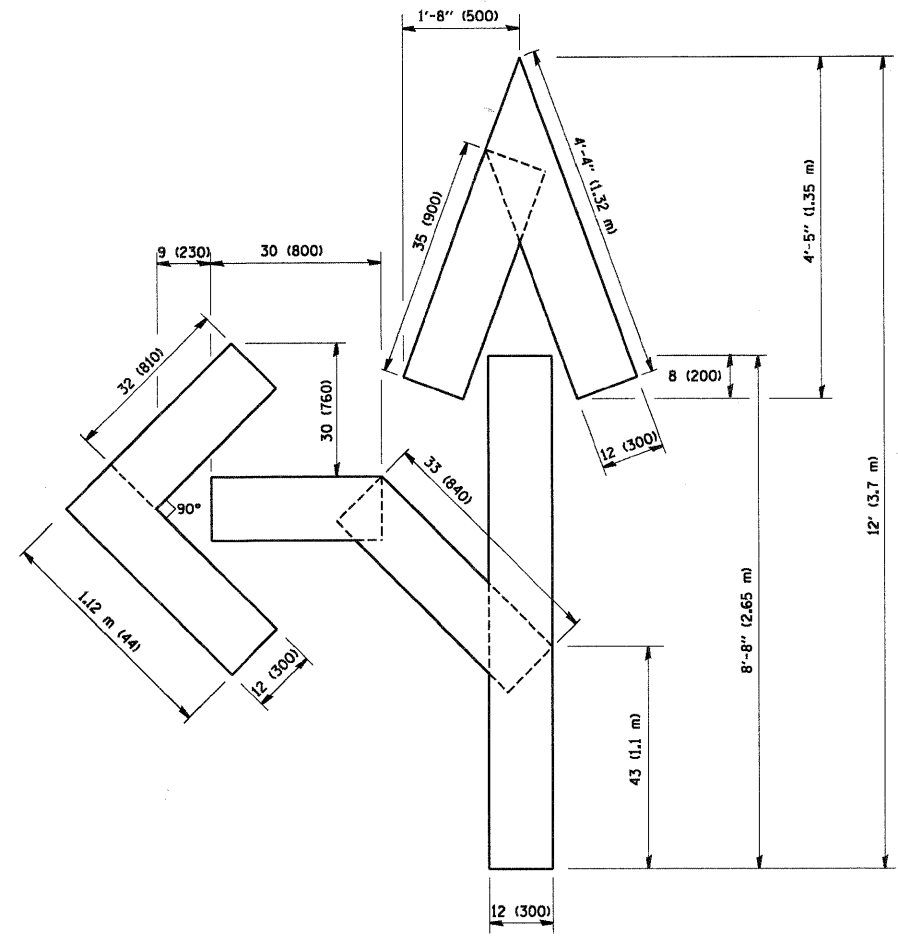
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

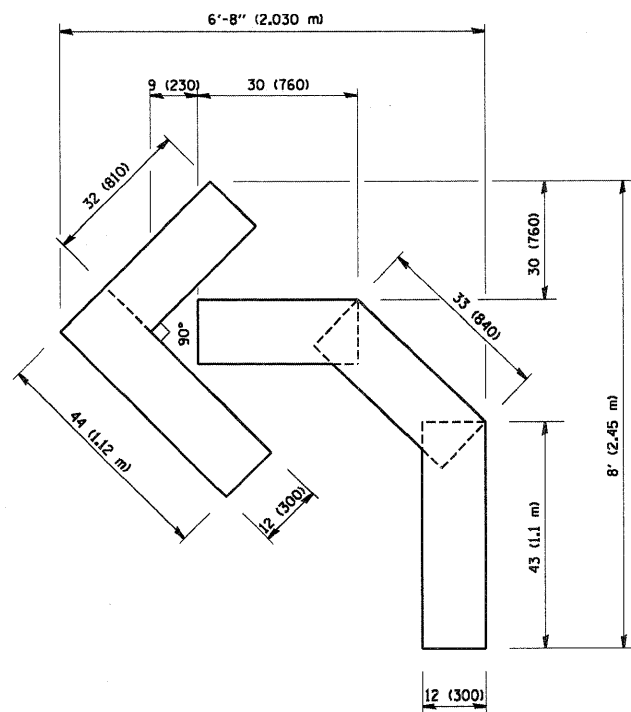
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	91
TC-13		CONTRACT NO. 60I29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

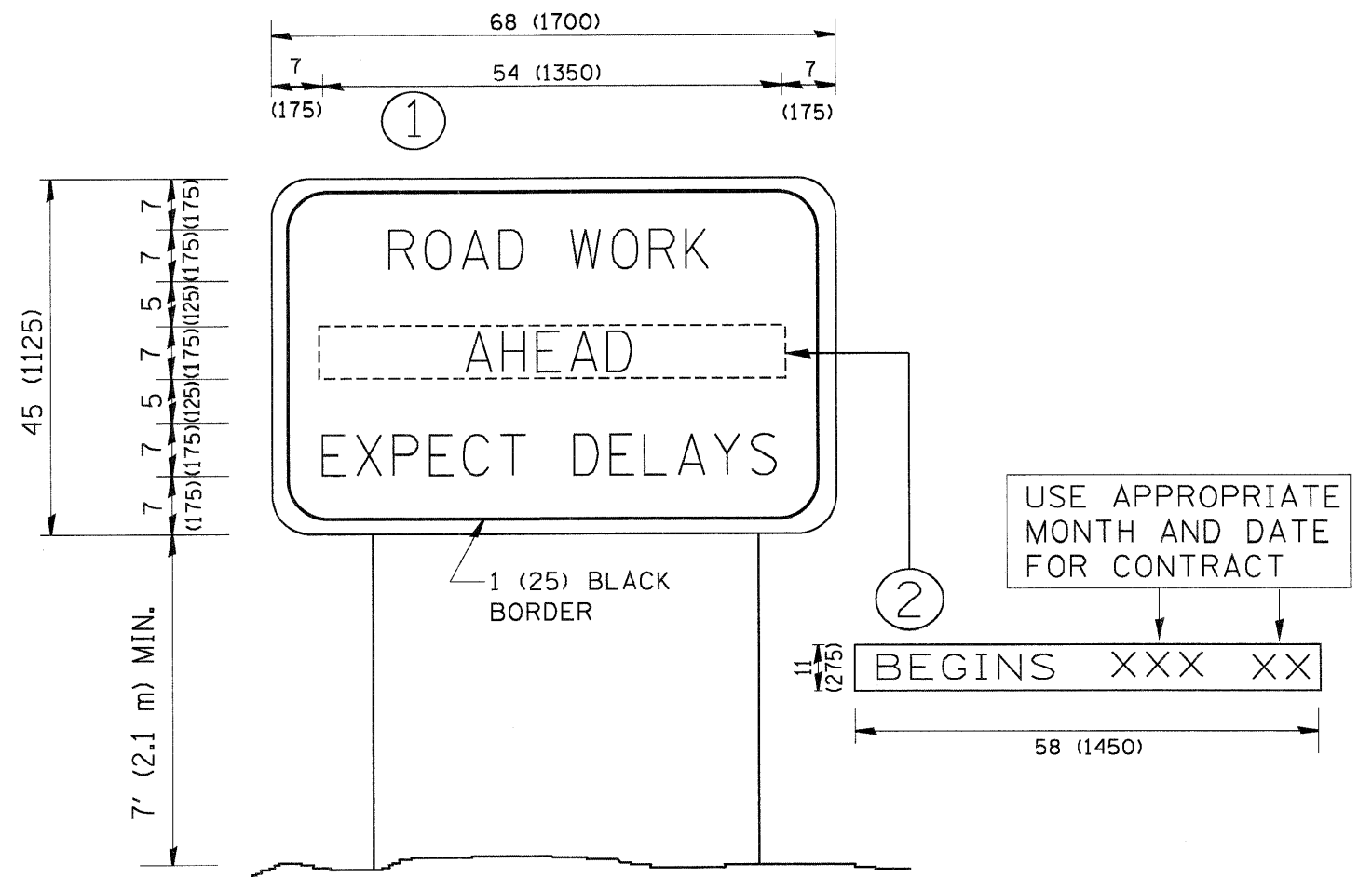
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		DRAWN -	REVISED - T. RAMMACHER 11-04-97
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED - T. RAMMACHER 03-02-98
PLOT DATE = 1/4/2008	DATE = 09-18-94		REVISED - E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	92
TC-16			CONTRACT NO. 60129	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



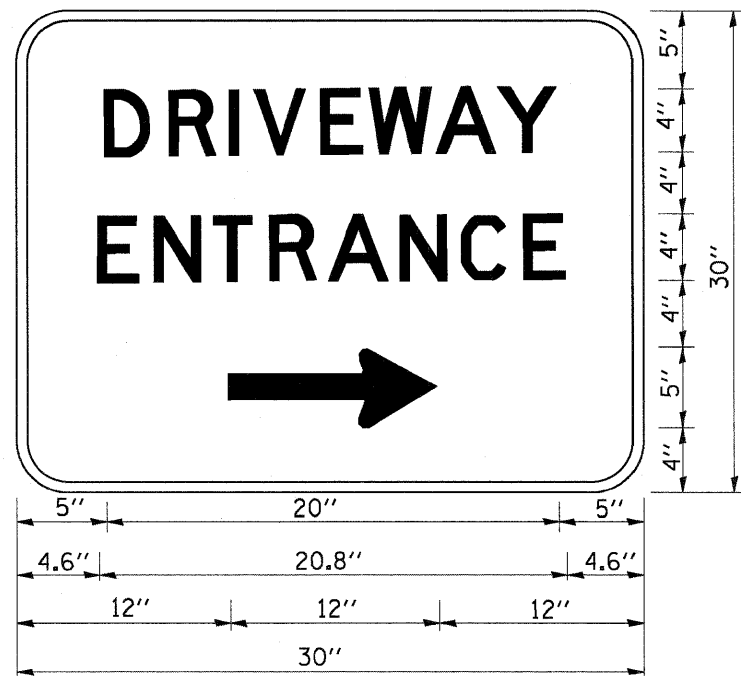
NOTES:

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

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

FILE NAME = P:\CIBBEL WEST Projects\2009\09-0147_IL173\Civil\Drawings\160129-1ht-01a.dwg

FILE NAME = P:\CIBBEL WEST Projects\2009\09-0147_IL173\Civil\Drawings\160129-1ht-01a.dwg	USER NAME = gegliano	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.P. RTE. = 303	SECTION = 132 B-2	COUNTY = McHENRY	TOTAL SHEETS = 106	SHEET NO. = 93	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		TC-22 CONTRACT NO. 60129	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 01-31-07									



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. ~~SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".~~

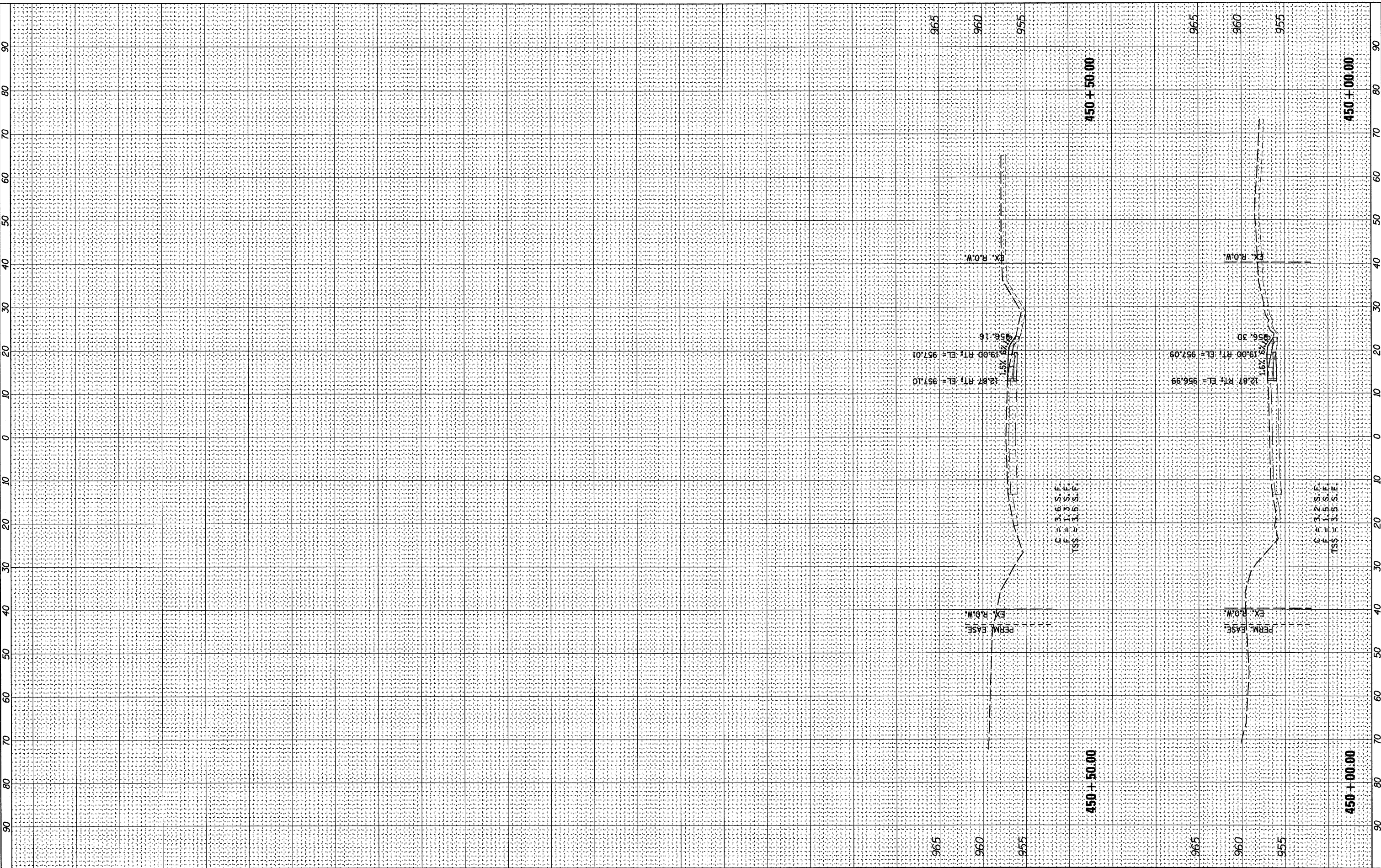
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FILE NAME = P:\CBBEL\WEST Projects\2009\03-0147_IL179\Civil\Drawings\160129-shr-01.tbl.dwg	USER NAME = ggallanobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING				F.A.P. RTE. 303	SECTION 132 B-2	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 94
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.				TC-26 CONTRACT NO. 60I29				
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -										

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

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

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WILLS BURKE KELSEY ASSOCIATES LTD.
 118 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = ehaglund	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 1/5/2011	CHECKED - PJF	REVISED -
	DATE - 12/14/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

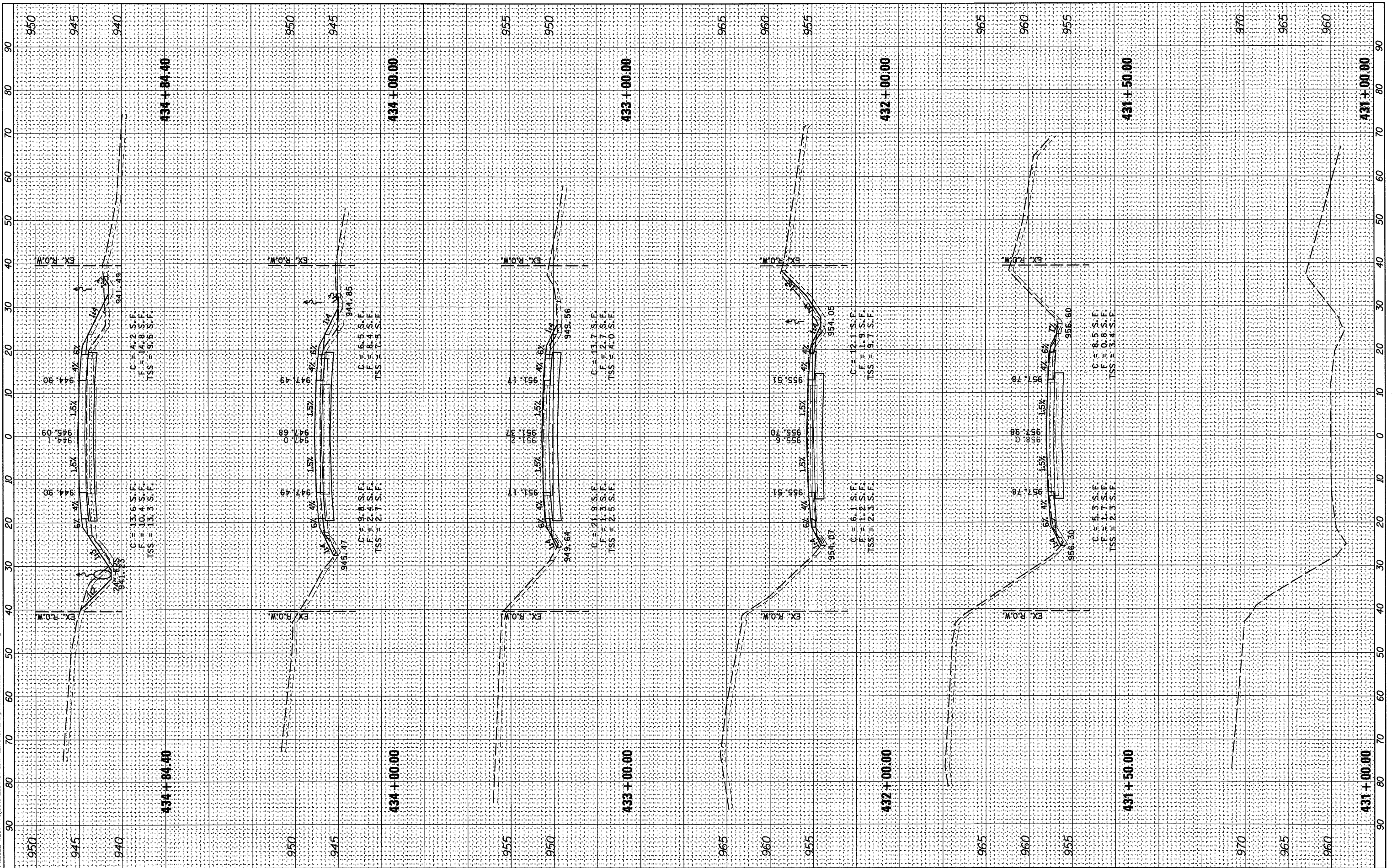
CROSS SECTIONS - STAGE 1
ILLINOIS ROUTE 173 OVER NIPPERSINK CREEK
 SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 106 SHEETS STA. 450+00.00 TO STA. 450+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	100
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

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WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME =	ehaglund
DESIGNED -	KMA
DRAWN -	KMA
CHECKED -	PJF
DATE -	12/14/10
PLLOT SCALE =	1"=10'H, 1"=5'V
PLLOT DATE =	1/5/2011
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
ILLINOIS ROUTE 173 OVER NIPPERSINK CREEK	
SCALE: 1"=10'H, 1"=5'V	SHEET NO. OF 106 SHEETS
STA. 431+00.00	TO STA. 434+84.40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	101
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

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WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME =	ahoglund
DESIGNED -	KMA
DRAWN -	KMA
CHECKED -	PJF
DATE -	12/14/10
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
ILLINOIS ROUTE 173 OVER NIPPERSINK CREEK			
SCALE: 1"=10'H, 1"=5'V	SHEET NO.	OF 106 SHEETS	STA. 447+00.00 TO STA. 451+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	106
CONTRACT NO. 60129				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

