

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T		34	1
ILLINOIS CONTRACT NO. 62J17			COOK DUPAGE MCHENRY	

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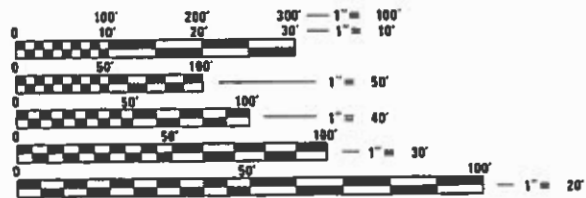
# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES  
VARIOUS LOCATIONS – NORTH AREA  
SECTION: 2019-039-T  
DRAINAGE  
COOK, DUPAGE AND MCHENRY COUNTIES  
C-91-372-19

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN:  
VILLAGES OF ALGONQUIN, NILES, ROSELLE, & SKOKIE  
AND UNINCORPORATED MCHENRY COUNTY

FOR GENERAL LOCATION MAPS, SEE SHEET NO. 6 AND 7



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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: DAN WILGREEN (847)-705-4240  
PROJECT MANAGER: FAWAD AQUEEL (847)-705-4247

CONTRACT NO. 62J17

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 29 2020

Anthony J. Wengert / AWB  
REGIONAL ENGINEER

March 20 2020  
cc EA ETK  
ENGINEER OF DESIGN AND ENVIRONMENT

Manoj 2020  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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**HIGHWAY STANDARDS CONT.**

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET-TYPE A
602402-02	PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER
602411-08	PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT TOP SLAB
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE TYPE 3
604031-03	GRATE TYPE 7
604036-03	GRATE TYPE 8
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
635001-02	DELINEATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES (CONT.)**

- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENT PATCHING AND CURB AND GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK ON ARTERIALS.
- THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, ARTERIAL TRAFFIC FIELD ENGINEER, AT DON.CHIARUGI@ILLINOIS.GOV AT A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- TOP OF GRATE ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES/GRATES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION.
- PROPERTIES AND CHANNELS ADJOINING THE SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN ONE (1) CALENDAR DAY FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE WORKING CONDITION.
- ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES-MAINTENANCE GUIDE: ([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM /WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION REQUIRED). THE CONTRACTOR SHALL ALSO CALL E.M.C. (DISTRICT 1 ELECTRICAL MAINTENANCE CONTRACTOR) AT (708) 524-2145 FOR FIELD LOCATIONS OF DISTRICT 1 ELECTRICAL CABLES.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGES OF ALGONQUIN, NILES, ROSELLE, & SKOKIE AND MCHENRY COUNTY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PATCHING	CLASS D PATCHES (HMA BINDER IL-19.0 mm)	4% @ 70 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)			

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

\*COOK, DUPAGE, MCHENRY

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USER NAME = bilgramisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES VARIOUS LOCATIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISIED -	VAR			2019-039-T	*	34	2	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62J17				
PLOT DATE = 2/6/2020	DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		100% STATE	100% STATE	100% STATE	100% STATE	100% STATE
				0004 MCHENRY CO. IL 47 (LOC. #1)	0004 MCHENRY CO. IL 31 (LOC. #2)	0004 DUPAGE CO. IL 19 (LOC. #3)	0004 COOK CO. IL 58 (LOC. #4)	0004 COOK CO. US 41 (LOC. #5)
20101700	SUPPLEMENTAL WATERING	UNIT	4	4				
20200100	EARTH EXCAVATION	CU YD	321	15	64	22	47	173
20700220	POROUS GRANULAR EMBANKMENT	CU YD	103	103				
20800150	TRENCH BACKFILL	CU YD	180		38	5	46	91
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	250	199	14	22	15	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24	24				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24	24				
25100115	MULCH, METHOD 2	ACRE	0.05	0.05				
25100630	EROSION CONTROL BLANKET	SO YD	133	133				
25200110	SODDING, SALT TOLERANT	SO YD	117	66	14	22	15	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75	75				
28000305	TEMPORARY DITCH CHECKS	FOOT	15	15				
28000400	PERIMETER EROSION BARRIER	FOOT	74	74				
42001300	PROTECTIVE COAT	SO YD	46		18	5	23	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	66					66

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
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44000100	PAVEMENT REMOVAL	SO YD	4				4	
44000600	SIDEWALK REMOVAL	SO FT	66					66
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	71		71			
44201299	DOWEL BARS 1 1/2"	EACH	74	74				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	3.3				3.3	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	49.8				15.8	34
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	15		15			
44213200	SAW CUTS	FOOT	287		287			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	21	21				
50102400	CONCRETE REMOVAL	CU YD	8	8				
50105220	PIPE CULVERT REMOVAL	FOOT	6		6			
50200100	STRUCTURE EXCAVATION	CU YD	122	122				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2520	2520				
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	139	139				
54002020	EXPANSION BOLTS 3/4 INCH	EACH	32	32				
54003000	CONCRETE BOX CULVERTS	CU YD	11.1	11.1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					TOTAL QUANTITIES	SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		100% STATE 0004 MCHENRY CO. IL 47 (LOC. #1)	100% STATE 0004 MCHENRY CO. IL 31 (LOC. #2)	100% STATE 0004 DUPAGE CO. IL 19 (LOC. #3)	100% STATE 0004 COOK CO. IL 58 (LOC. #4)	100% STATE 0004 COOK CO. US 41 (LOC. #5)		CODE NO	ITEM	UNIT		100% STATE 0004 MCHENRY CO. IL 47 (LOC. #1)	100% STATE 0004 MCHENRY CO. IL 31 (LOC. #2)	100% STATE 0004 DUPAGE CO. IL 19 (LOC. #3)	100% STATE 0004 COOK CO. IL 58 (LOC. #4)	100% STATE 0004 COOK CO. US 41 (LOC. #5)	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	232.5		135	8	58.5	31	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	321	15	64	22	47	173	
55100500	STORM SEWER REMOVAL 12"	FOOT	30					30	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	2	1	1	1	1	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	6	6					*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.2	0.2	0.2	0.2	0.2	
60200805	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 8 GRATE	EACH	1		1				*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.2	0.2	0.2	0.2	0.2	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1				1		*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	60	10	10	10	10	20	
60224005	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 8 GRATE	EACH	1			1				67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1.2	1.2	1.2	1.2	1.2	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3		3					67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0.2	
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1			1				70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1			1			
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	3				3			70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1		1				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1				1			70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1					1	
60600605	CONCRETE CURB, TYPE B	FOOT	7				7			70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1				1		
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	25	25						70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		0.34		0.33	0.33	
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	37.5	37.5															
63200310	GUARDRAIL REMOVAL	FOOT	62.5	62.5															
													* SPECIALTY ITEMS					• COOK, DUPAGE & MCHENRY	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
VARIOUS LOCATIONS**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	4
CONTRACT NO. 62J17				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1				1	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	4931	4931				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	222	222				
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2170	2170				
78100300	REPLACEMENT REFLECTOR	EACH	15	15				
78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	2	2				
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	18	18				
X0326806	WASHOUT BASIN	L SUM	1	1				
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	723	723				
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SO YD	6	6				
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1	1				
X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.06	0.06				
X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.02	0.02				

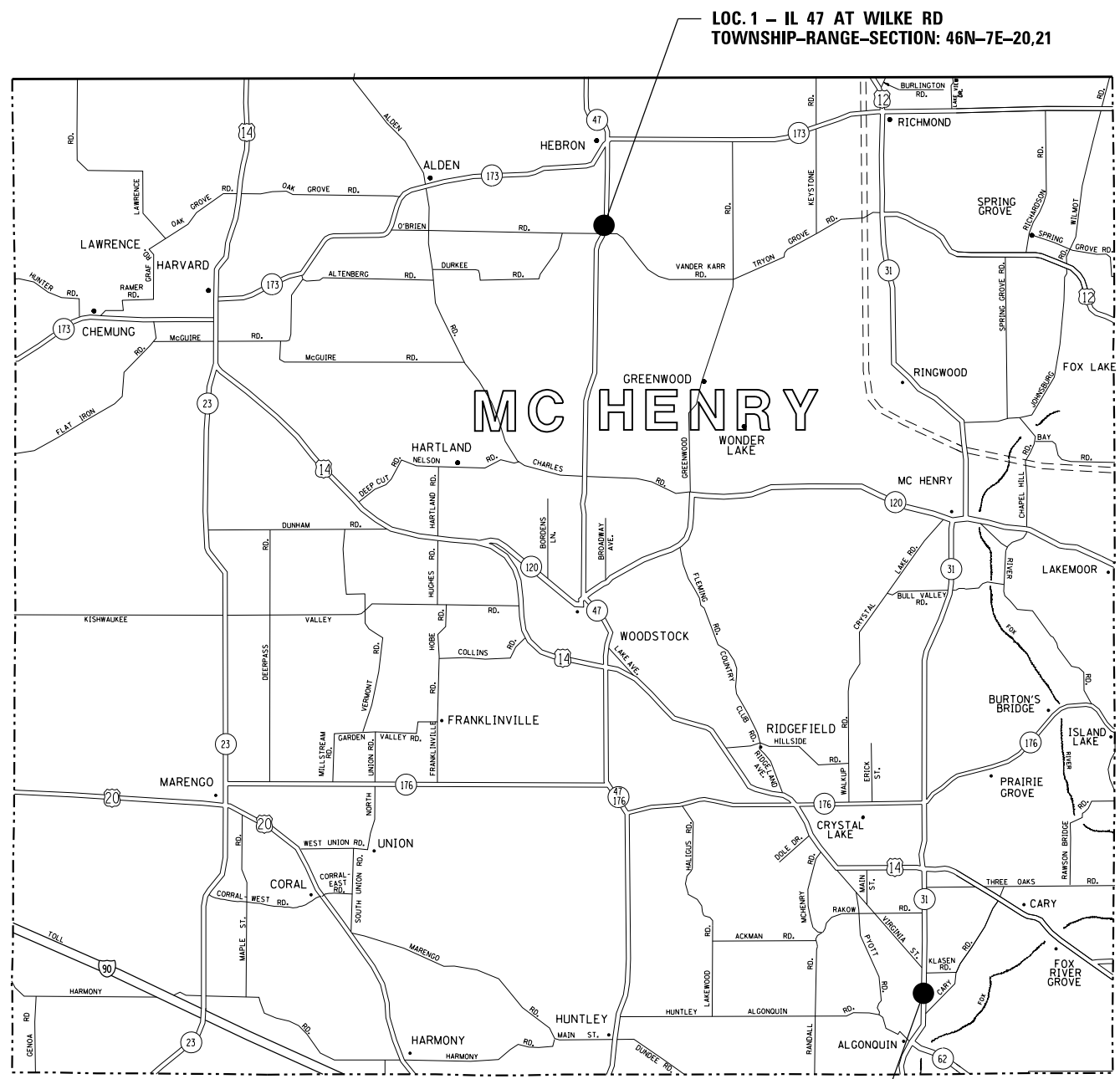
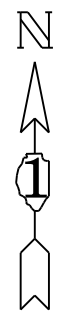
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X5400504	PRECAST CONCRETE BOX CULVERTS 2' X 2' (SPECIAL)	FOOT	6		6			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	100					100
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	1644	1644				
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	15	15				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	220	80	20	90	30	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	3		2	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	260	52	52	52	52	52
Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6" DRAINAGE STRUCTURES TO BE CLEANED (SPECIAL)	FOOT	254					254
Z0076604	TRAINEE TRAINING PROGRAM GRADUATE	hour	500	500				

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	PLOT DATE = 2/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES VARIOUS LOCATIONS</b>	
SCALE:	TO STA.
SHEET NO. 3 OF 3 SHEETS	STA. TO STA.

* SPECIALTY ITEMS Ø 0042		• COOK, DUPAGE & MCHENRY	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
VAR	2019-039-T	*	34
			SHEET NO. 5
		CONTRACT NO. 62J17	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



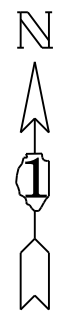
LOC. 2 - IL 31 (OAKWOOD CT. TO LINDEN AVE.)  
TOWNSHIP-RANGE-SECTION: 43N-8E-27

TRAFFIC INFO		
LOCATION #	SPEED LIMIT	ADT (YEAR)
1	55 MPH	4,500 (2019)
2	45 MPH	24,400 (2019)

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\*COOK, DUPAGE, MCHENRY

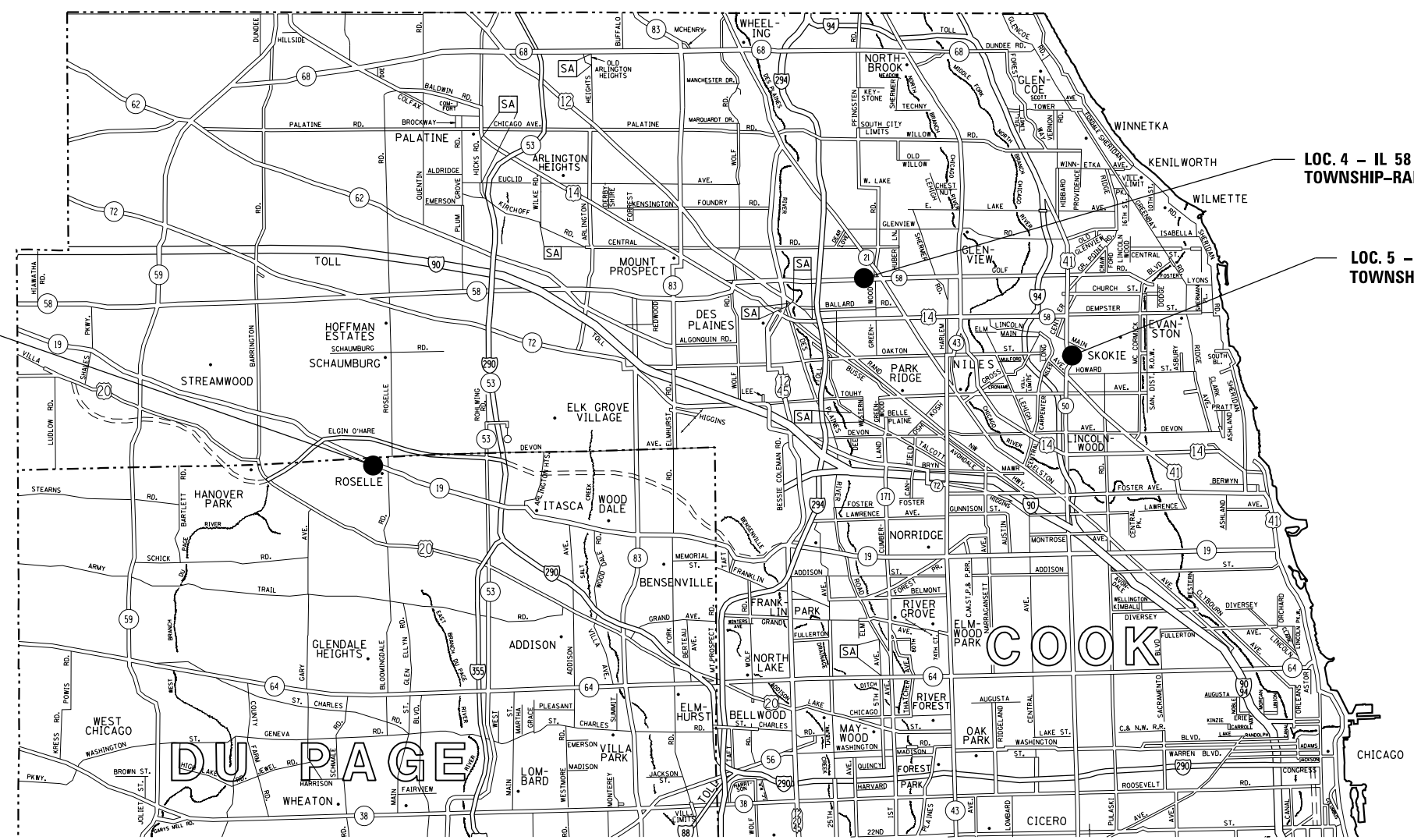
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SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.				



LOC. 3 - IL 19 W/O LINCOLN ST.  
TOWNSHIP-RANGE-SECTION: 40N-10E-3

LOC. 4 - IL 58 W/O GREENWOOD AVE.  
TOWNSHIP-RANGE-SECTION: 41N-12E-11

LOC. 5 - US 41 S/O OAKTON ST.  
TOWNSHIP-RANGE-SECTION: 41N-13E-27



TRAFFIC INFO		
LOCATION #	SPEED LIMIT	ADT (YEAR)
3	35 MPH	23,800 (2020)
4	35 MPH	38,100 (2019)
5	40 MPH	21,000 (2019)

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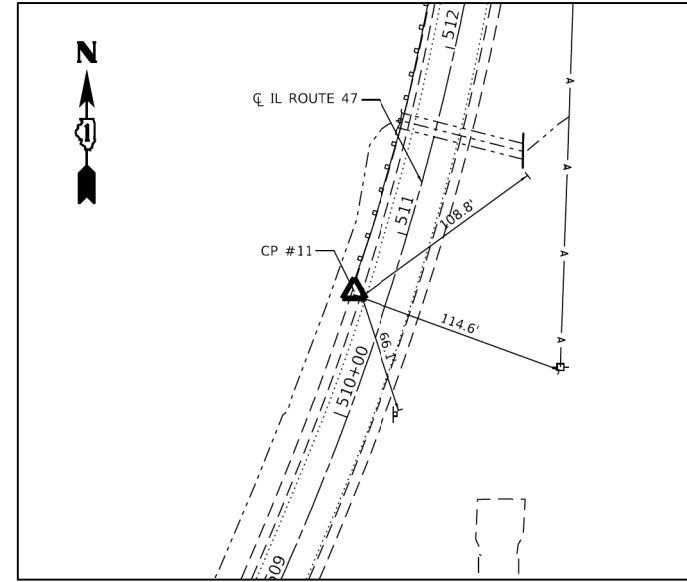
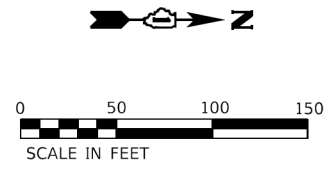
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL LOCATION MAP - COOK & DUPAGE COUNTY**  
**VARIOUS LOCATIONS**

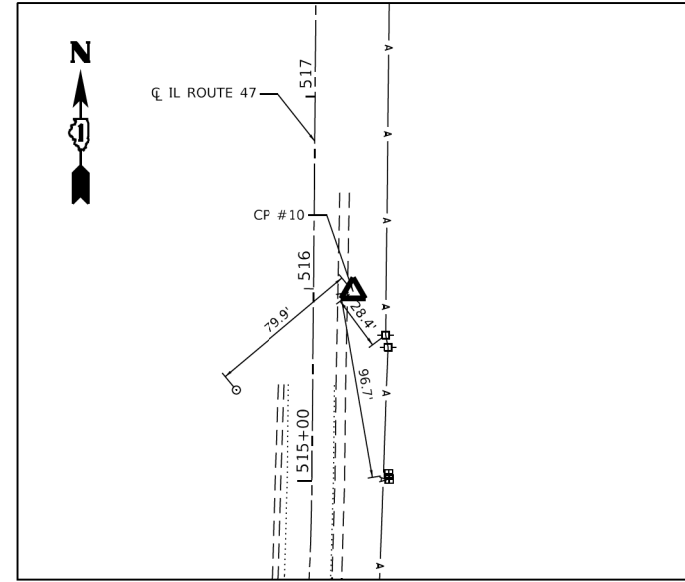
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\*COOK, DUPAGE, MCHENRY

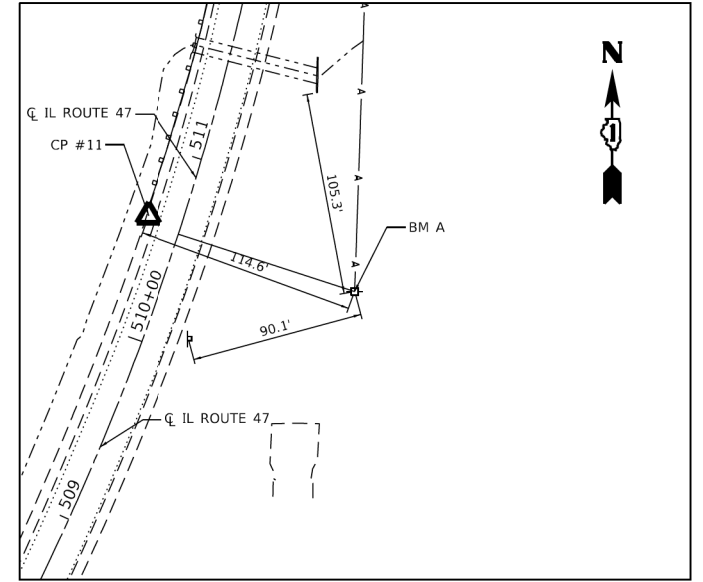
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	7
			CONTRACT NO. 62J17	
		ILLINOIS	FED. AID PROJECT	



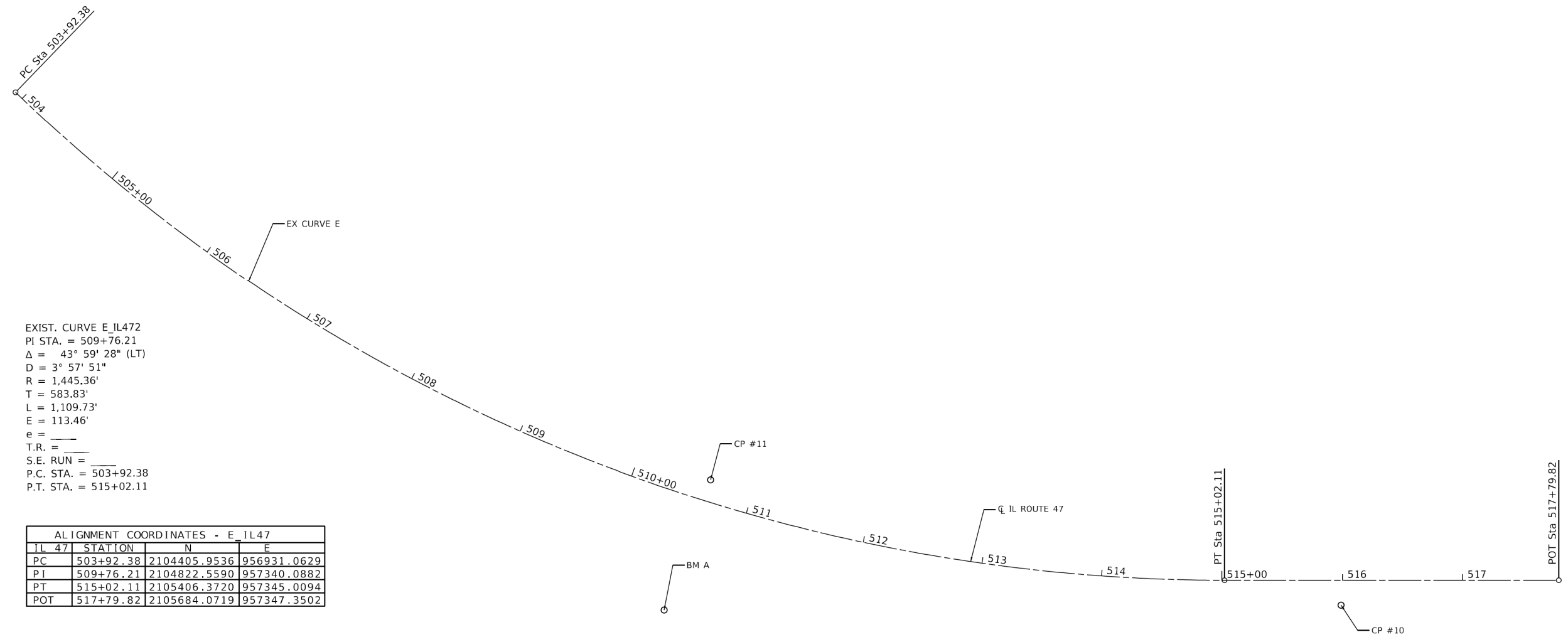
**CONTROL POINT #11**  
 SET W/ 5/8" IRON ROD W/YELLOW CAP  
 STA. 510+63.42, 18.16' LT  
 N: 2104980.48, E: 957258.16  
 EL: 905.215



**CONTROL POINT #10**  
 SET IRON ROD W/ YELLOW CAP  
 STA. 515+98.78, 20.65' RT  
 N: 2105502.86, E: 957366.47  
 EL: 908.137



**BENCHMARK A**  
 SET RAILROAD SPIKE ON WEST SIDE OF 5TH POWER POLE NORTH OF  
 VANDERKARR ROAD ALONG EAST SIDE OF WILKE ROAD, ABOUT 200 +/-  
 EAST OF CONTROL POINT #11 ABOUT 800 +/- NORTH OF VANDERKARR ROAD  
 EL: 905.805



EXIST. CURVE E\_IL472  
 PI STA. = 509+76.21  
 $\Delta = 43^\circ 59' 28''$  (LT)  
 $D = 3^\circ 57' 51''$   
 $R = 1,445.36'$   
 $T = 583.83'$   
 $L = 1,109.73'$   
 $E = 113.46'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 P.C. STA. = 503+92.38  
 P.T. STA. = 515+02.11

ALIGNMENT COORDINATES - E_IL47			
IL 47	STATION	N	E
PC	503+92.38	2104405.9536	956931.0629
PI	509+76.21	2104822.5590	957340.0882
PT	515+02.11	2105406.3720	957345.0094
POT	517+79.82	2105684.0719	957347.3502

LOCATION 1

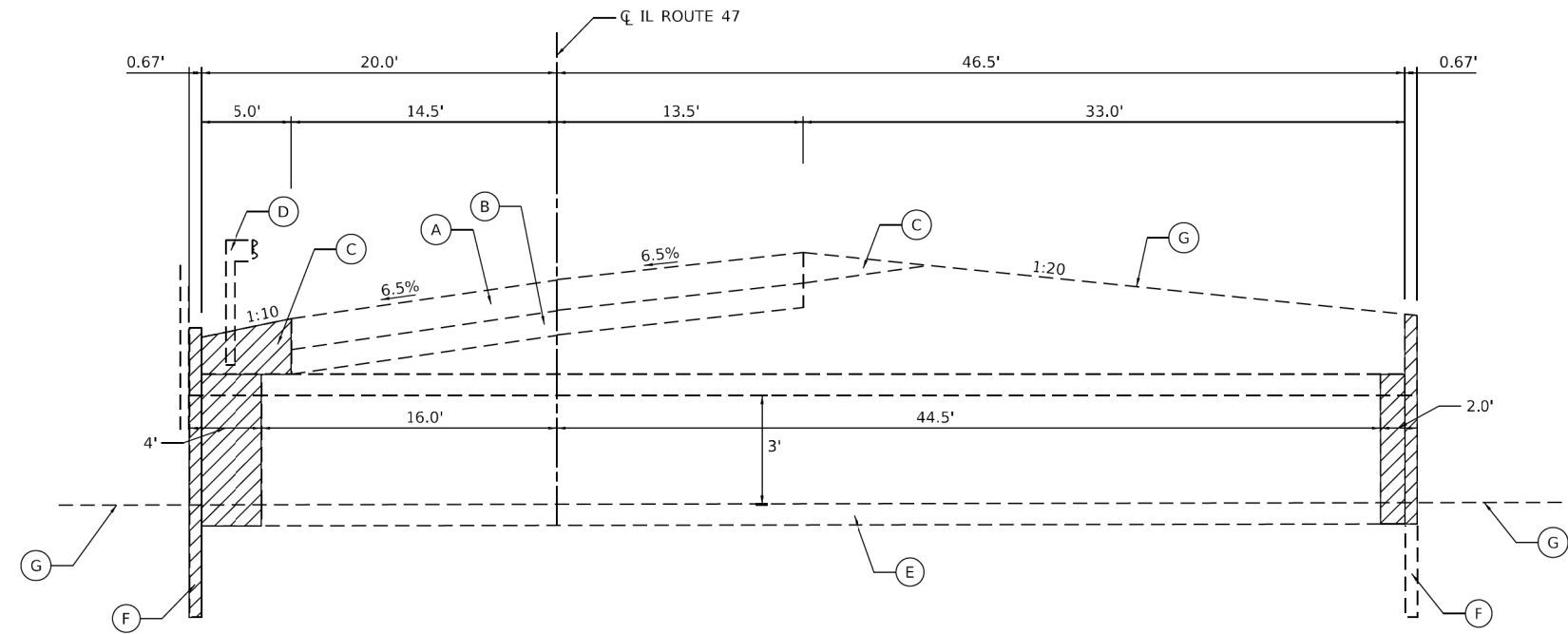
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DRAWN - CS	REVISED -	
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PLOT DATE = 1/26/2020	DATE - 11/8/19	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 47 ALIGNMENT, TIES, AND BENCHMARKS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	8
CONTRACT NO. 62J17			ILLINOIS FED. AID PROJECT	



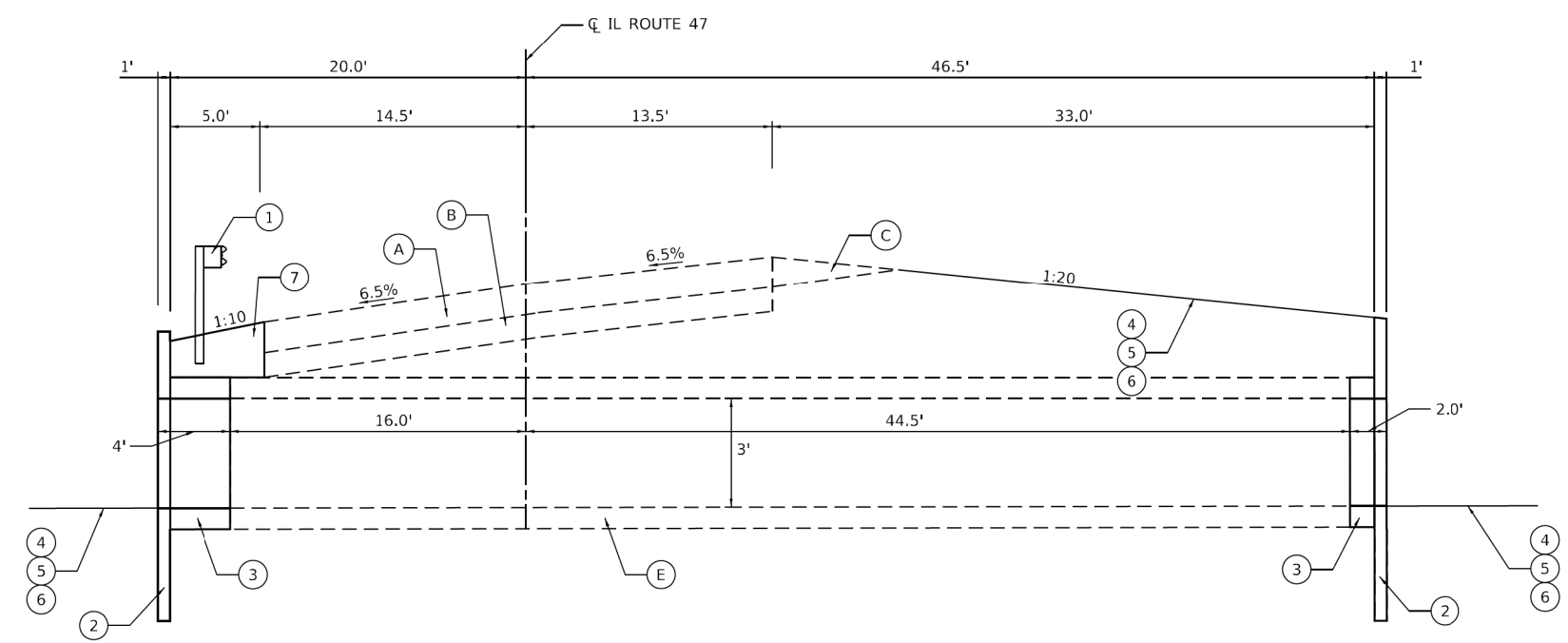
**EXISTING TYPICAL SECTION**  
**IL ROUTE 47**  
(LOOKING NORTH)

**EXISTING LEGEND**

- (A) EXISTING HMA PAVEMENT
- (B) EXISTING CONCRETE BASE COURSE
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING GUARDRAIL
- (E) EXISTING CULVERT
- (F) EXISTING HEADWALL
- (G) EXISTING GROUND
- DENOTES REMOVAL ITEM

**PROPOSED LEGEND**

- (1) LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN
- (2) PROPOSED HEADWALL (SEE STRUCTURAL PLANS FOR CULVERT)
- (3) PROPOSED CULVERT (SEE STRUCTURAL PLANS FOR CULVERT)
- (4) PROPOSED SEEDING (SEE LANDSCAPING PLANS)
- (5) EROSION CONTROL BLANKET
- (6) TOPSOIL FURNISH AND PLACE, 4"
- (7) AGGREGATE SHOULDERS TYPE B



**PROPOSED TYPICAL SECTION**  
**IL ROUTE 47**  
(LOOKING NORTH)

LOCATION 1

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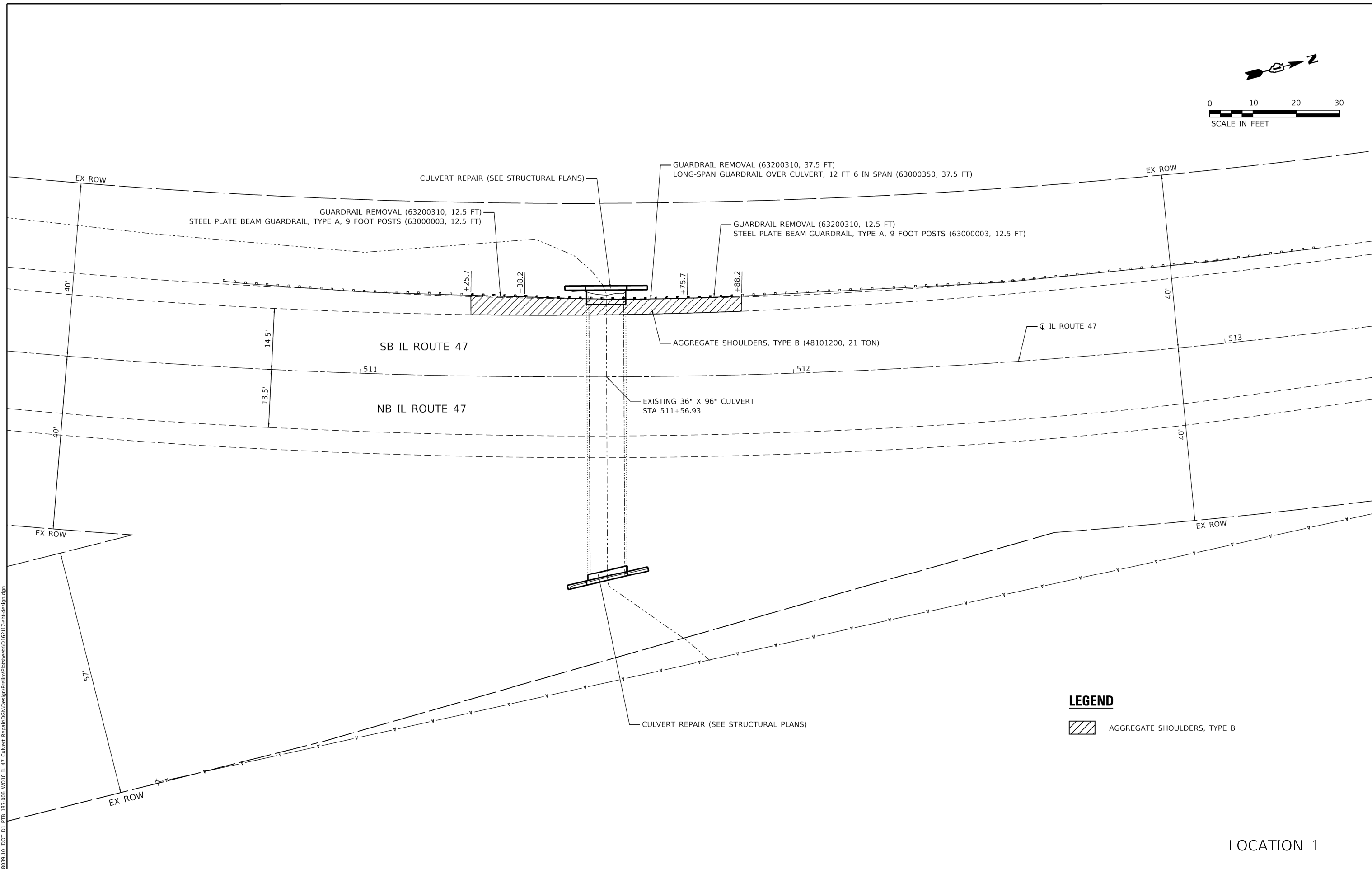
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PLOT DATE = 1/26/2020	DATE - 11/8/19	REVISED -

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

**IL ROUTE 47**  
**EXISTING TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	9
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				



**LEGEND**

AGGREGATE SHOULDERS, TYPE B

LOCATION 1

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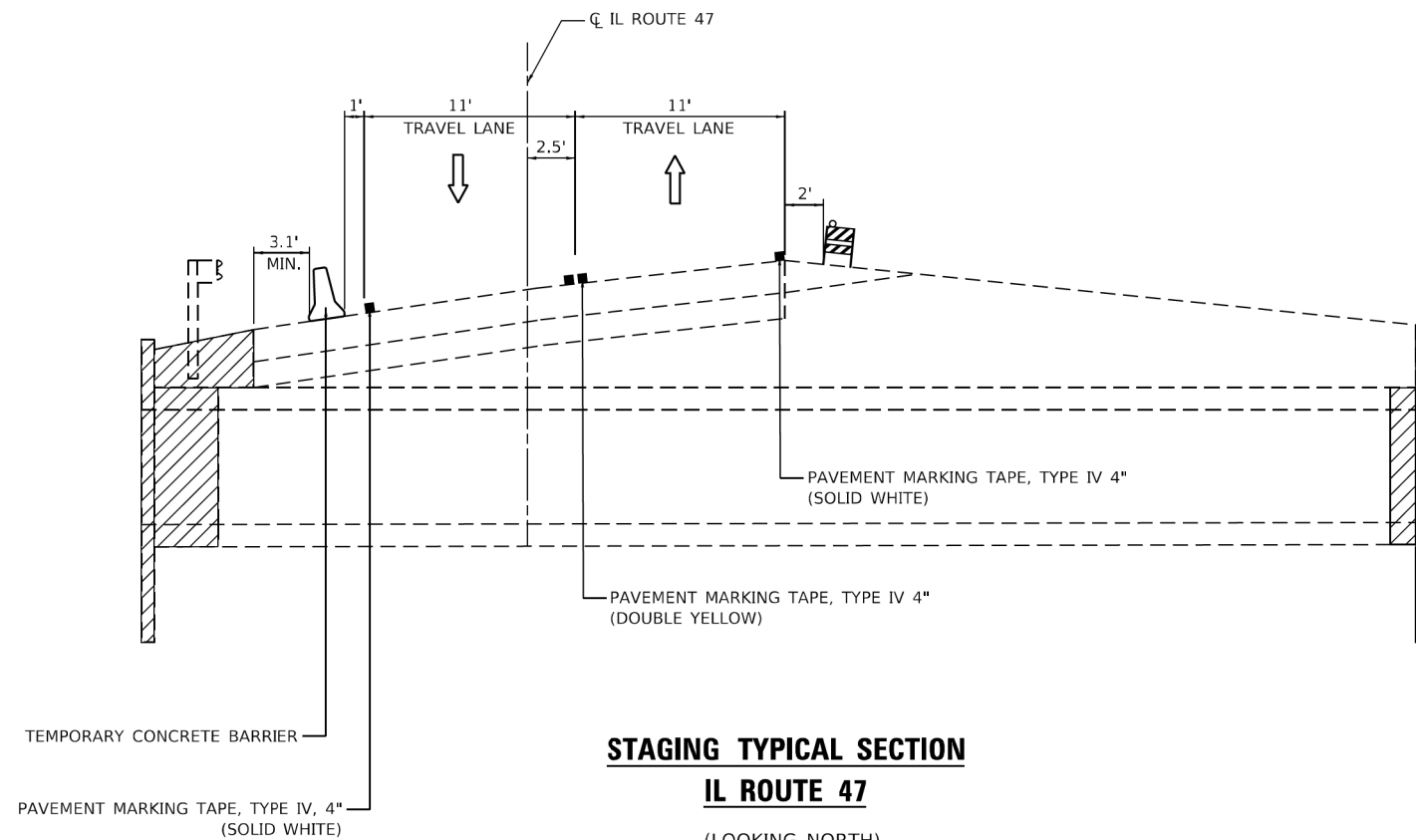
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 47</b> <b>REMOVAL AND PROPOSED ROADWAY PLAN</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE. 326	SECTION 2019-039-T	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 10
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

**TRAFFIC CONTROL GENERAL NOTES**

1. THE TRAFFIC CONTROL DEPICTED HERE IN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS, AS SHOWN IN THE INDEX OF SHEETS, AND AS SHOWN IN THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS, OR SPECIAL PROVISIONS.
2. WORK ZONE SPEED LIMIT IS 45 MPH.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' LANE IN EACH DIRECTION AT ALL TIMES FOR TWO-WAY TRAFFIC FLOW.
4. 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 PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC CONTROL DEVICES.
5. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER IN TANGENTS, 20 FEET CENTER TO CENTER IN TAPERS, AND 10 FEET CENTER TO CENTER IN RADII.
6. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR 2 APPLICATIONS OF TEMPORARY PAVEMENT MARKINGS HAVE BEEN PROVIDED FOR EACH STAGE.
7. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS.
8. ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH TRAFFIC CONTROL SHALL BE REMOVED.
9. ALL RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH TRAFFIC CONTROL SHALL HAVE THE REFLECTIVE LENSES REMOVED.
10. THE CONTRACTOR SHALL CONTACT THE D1 TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK OR MAKING CHANGES TO THE SUGGESTED STAGING.
11. IMMEDIATELY UPON COMPLETING CONSTRUCTION THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS, SIGNS, AND RAISED REFLECTORS REMOVED DURING CONSTRUCTION.



**STAGING TYPICAL SECTION**  
**IL ROUTE 47**  
 (LOOKING NORTH)

**SUGGESTED SEQUENCE OF CONSTRUCTION**

- PRE-STAGE - IL ROUTE 47
1. INSTALL TRAFFIC CONTROL DEVICES FOR IL ROUTE 47 AS SHOWN ON THE PLANS.
  2. INSTALL EROSION CONTROL DEVICES AS SHOWN ON EROSION CONTROL PLANS
- STAGE 1 - US ROUTE 47
1. CLOSE THE RIGHT SHOULDER AND SHIFT SB TRAFFIC TO THE EAST SIDE OF THE EXISTING PAVEMENT AS SHOWN ON THE PLANS.
  2. REMOVE AND RECONSTRUCT THE WEST AND EAST END OF THE CULVERT INCLUDING THE HEADWALL AND WINGWALLS.
  3. INSTALL GUARDRAIL AS SHOWN IN THE PLANS.
  4. REMOVE TEMPORARY PAVEMENT MARKINGS AND RE-ESTABLISH ONE (1) 12' FOOT IN EACH DIRECTION.
  5. COMPLETE ALL UNFINISHED LANDSCAPING.
  6. REMOVE TEMPORARY EROSION CONTROL DEVICES.

LOCATION 1

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

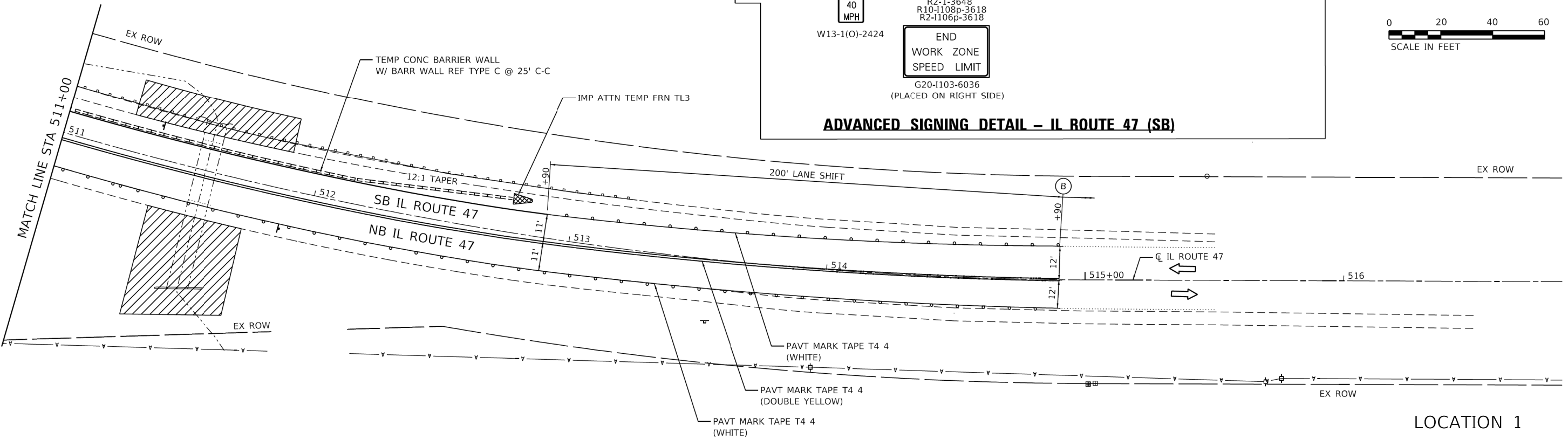
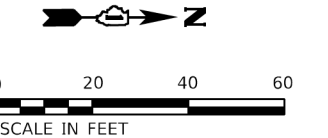
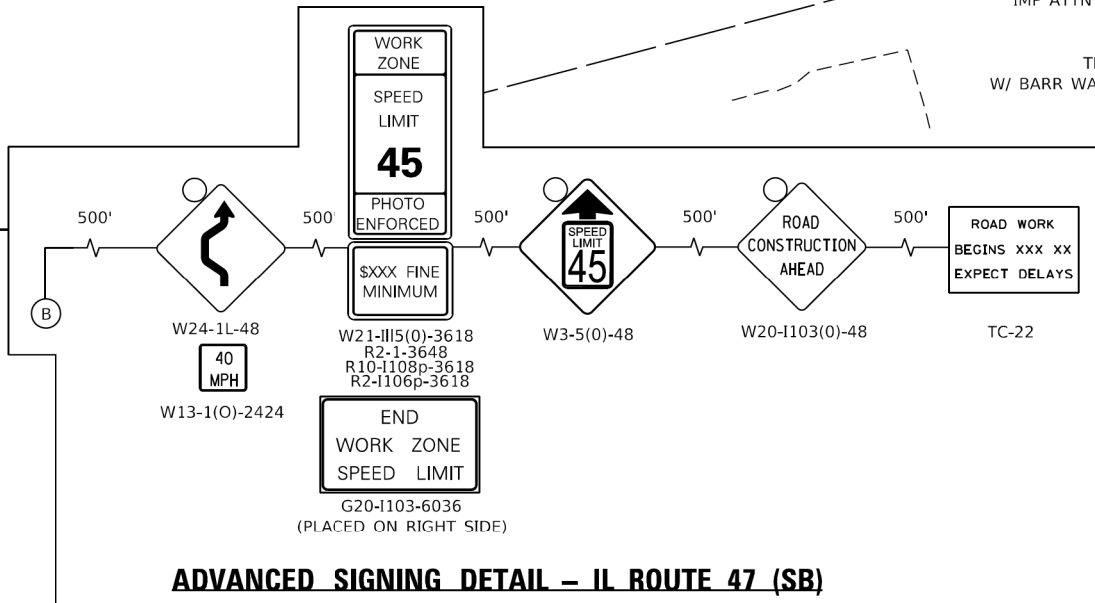
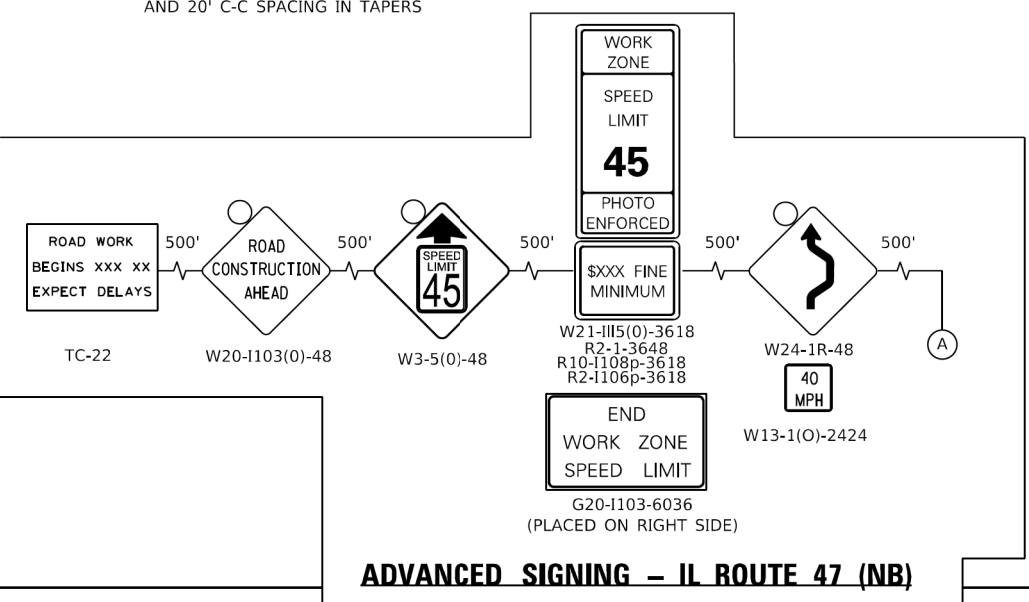
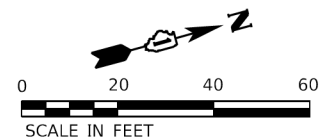
**IL ROUTE 47**  
**TRAFFIC CONTROL GENERAL NOTES AND TYPICAL SECTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	11
CONTRACT NO. 62J17			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  WORK AREA
-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
-  DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, AND 20' C-C SPACING IN TAPERS



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

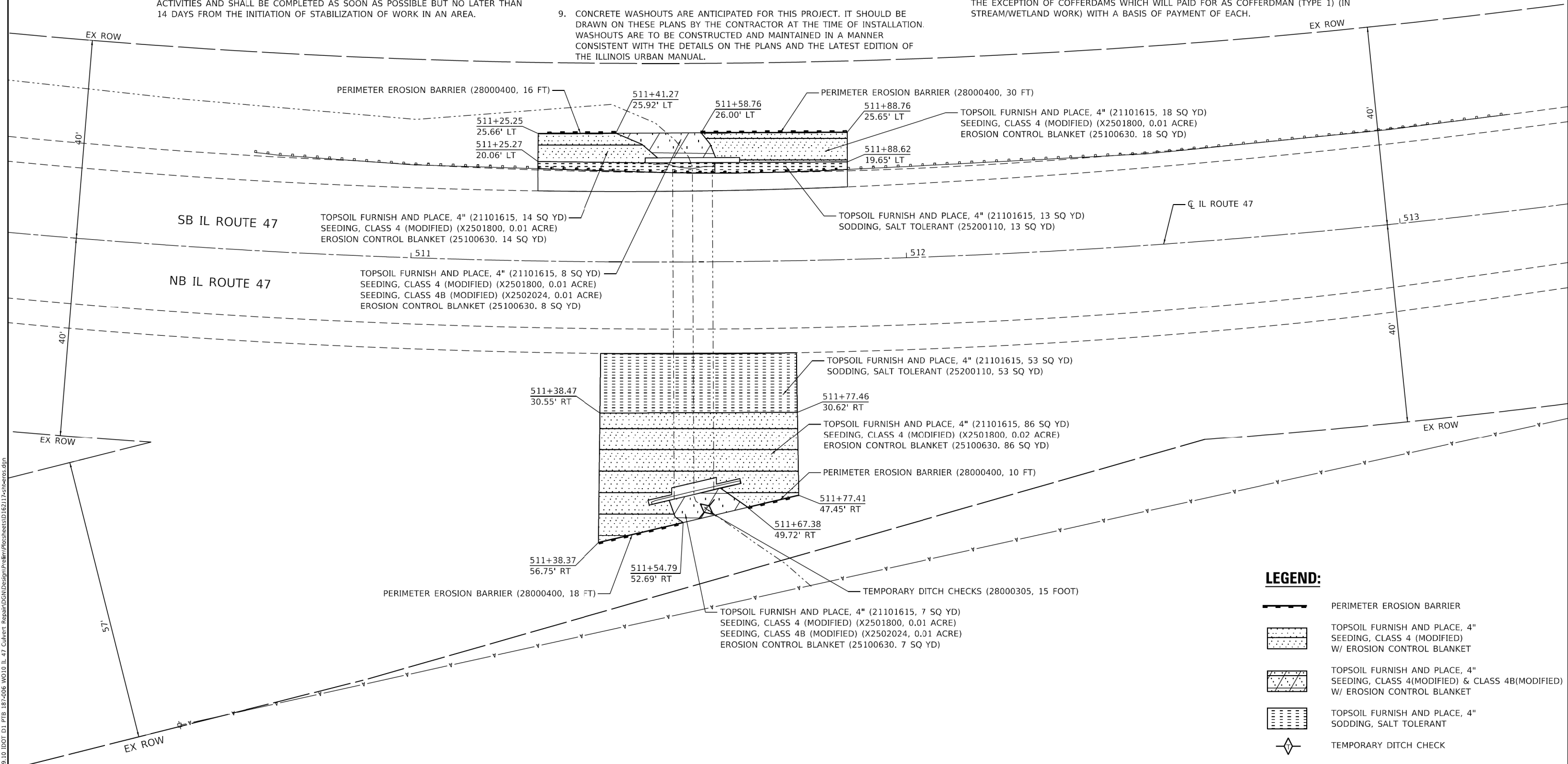
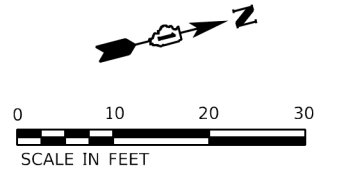
<b>IL ROUTE 47 TRAFFIC CONTROL PLAN</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 2019-039-T	COUNTY MCHENRY	TOTAL SHEETS 34	SHEET NO. 12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J17	



# EROSION CONTROL AND LANDSCAPING GENERAL NOTES

- THE CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER PRIOR TO STRIPPING OF VEGETATION.
- RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES SHOWN IN IDOT STD 280001, AND/OR NRCS DETAILS FROM THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL.
- THE CONTRACTOR SHALL SURROUND ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER.
- ALL EROSION CONTROL MEASURES SHOULD BE CHECKED WEEKLY AND AFTER EACH RAINFALL 0.5 INCHES OR GREATER. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SNOWMELT.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF THE TEMPORARY OR PERMANENT CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION OF WORK IN AN AREA.
- ALL WASTE GENERATED AS A RESULT OF THE PROJECT INCLUDING DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER, SANITARY WASTE, OR ANY OTHER WASTE SHALL BE PROPERLY DISPOSED OF AND BE PREVENTED FROM BEING CARRIED OFF THE SITE BY EITHER WIND OR WATER.
- ALL EXPOSED IDLE EARTH, INCLUDING EARTH STOCKPILES, WILL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING. THE APPLICATION RATE FOR TEMPORARY EROSION CONTROL SEEDING IS 100 POUNDS PER ACRE FOR THREE APPLICATIONS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF ACHIEVING PERMANENT SOIL STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF AND THE AREA PERMANENTLY STABILIZED.
- CONCRETE WASHOUTS ARE ANTICIPATED FOR THIS PROJECT. IT SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT THE TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED IN A MANNER CONSISTENT WITH THE DETAILS ON THE PLANS AND THE LATEST EDITION OF THE ILLINOIS URBAN MANUAL.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATION, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT.
- THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL PAID FOR AS COFFERDAM (TYPE 1) (IN STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.



**LEGEND:**

- PERIMETER EROSION BARRIER
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 4 (MODIFIED) W/ EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 4(MODIFIED) & CLASS 4B(MODIFIED) W/ EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT
- TEMPORARY DITCH CHECK

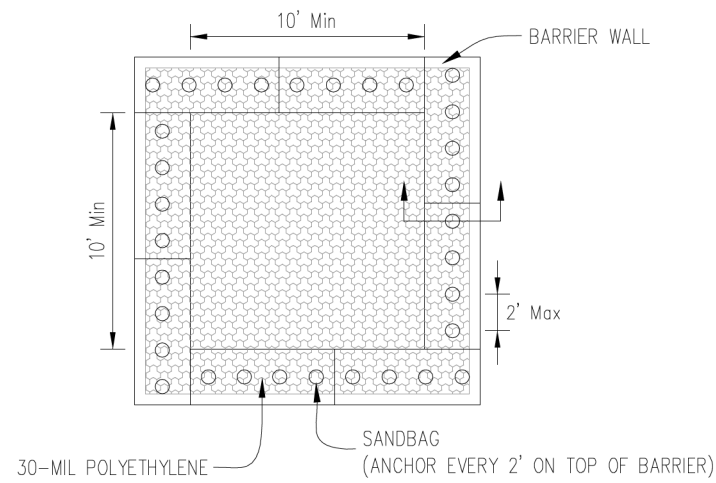
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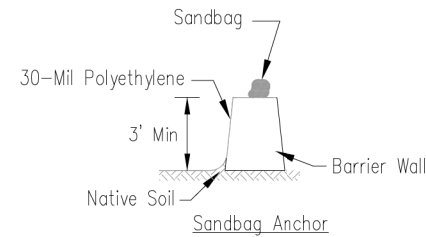
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 47</b>	
<b>EROSION CONTROL &amp; LANDSCAPING PLAN</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

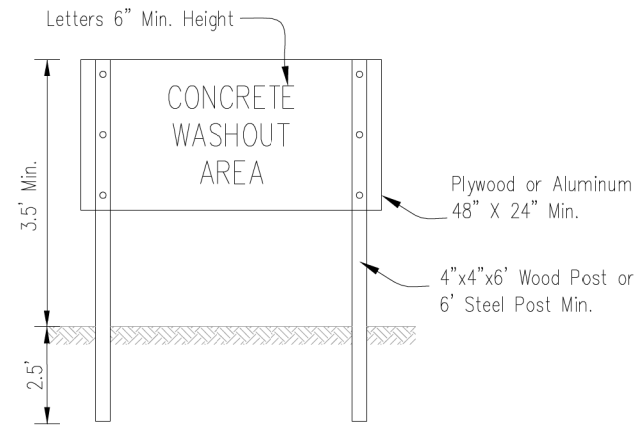
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	13
			CONTRACT NO. 62J17	
		ILLINOIS	FED. AID PROJECT	



PLAN VIEW



BARRIER WALL ANCHOR SECTION



SIGN DETAIL

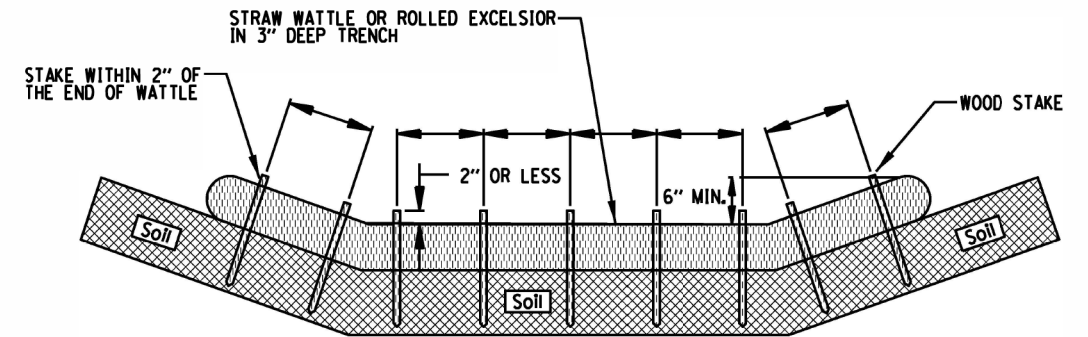
NOTES:

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

SHEET NO. 14 OF 34 DATE 08-2-2019 PROJECT IUM-514 CONTRACT NO. 62J17	TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL	Designed _____ Date _____ Drawn B. JOHNSON 6/08 Checked _____ Approved _____
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# ROLLED EROSION CONTROL PRODUCTS

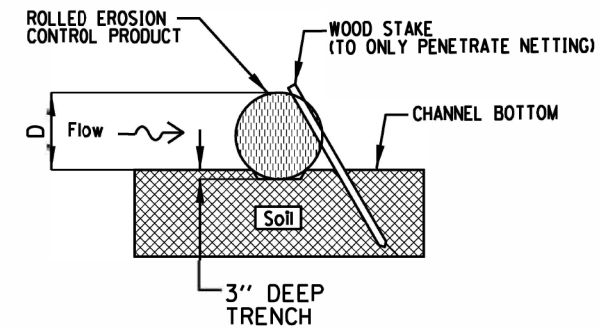
## STAKING PATTERN GUIDE



NOTES:

- OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
- 4' SPACING FOR WATTLES.
- 2' SPACING FOR ROLLED EXCELSIOR.
- OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

## STAKE DETAIL



NOTES:

- DRAWINGS ARE NOT TO SCALE.
- ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
- RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
- STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
- SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

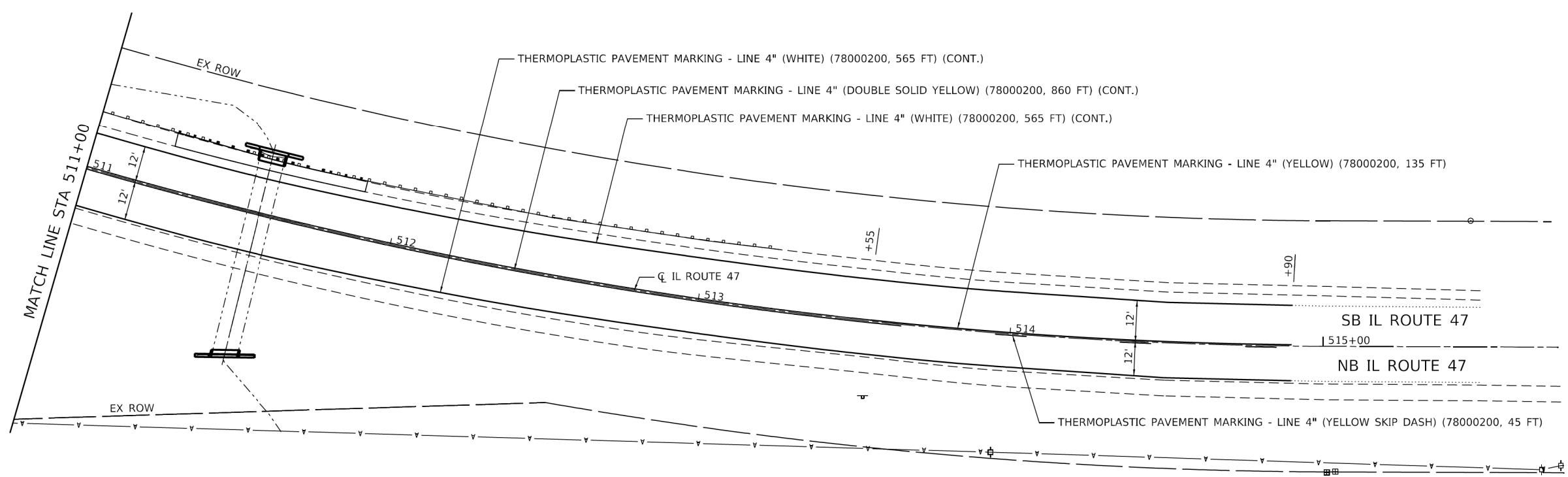
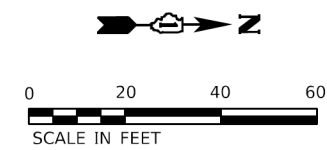
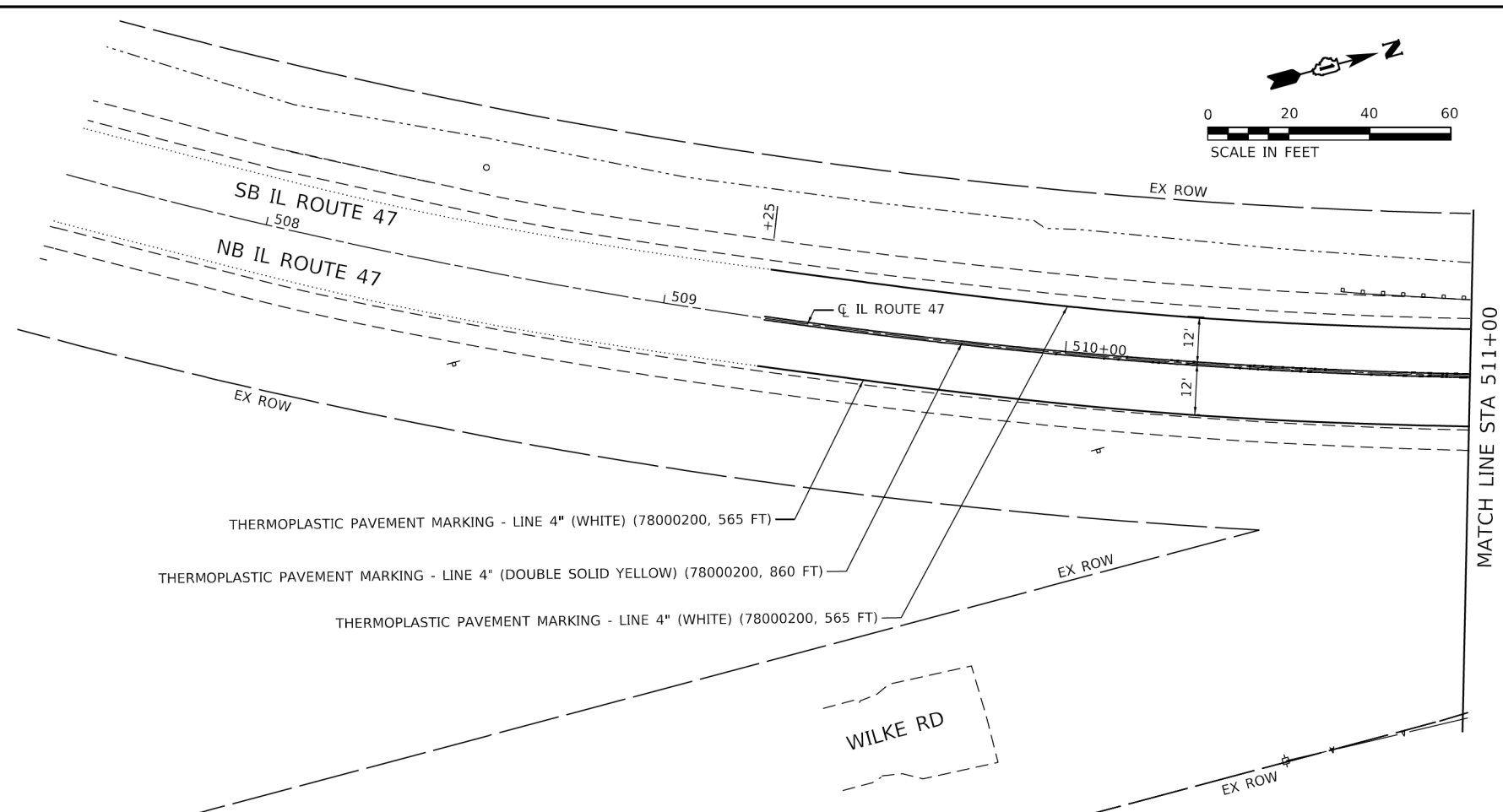
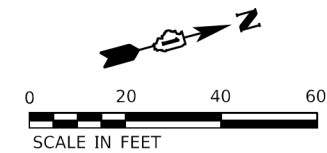
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Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IUM-514
SHEET	1 OF 1
DATE	08-2-2019

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	DRAWN - CS	REVISED -
PLOT SCALE = 40,0000 * / ft.	CHECKED - JH	REVISED -
PLOT DATE = 1/26/2020	DATE - 11/8/19	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	14
			CONTRACT NO. 62J17	
ILLINOIS FED. AID PROJECT				



LOCATION 1

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	DRAWN - CS	REVISED -
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PLOT DATE = 1/26/2020	DATE - 11/8/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 47  
PAVEMENT MARKING PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	15
			CONTRACT NO. 62J17	
		ILLINOIS FED. AID PROJECT		

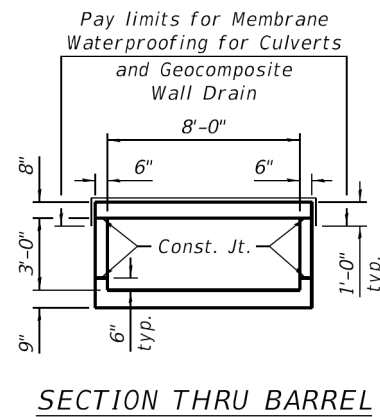
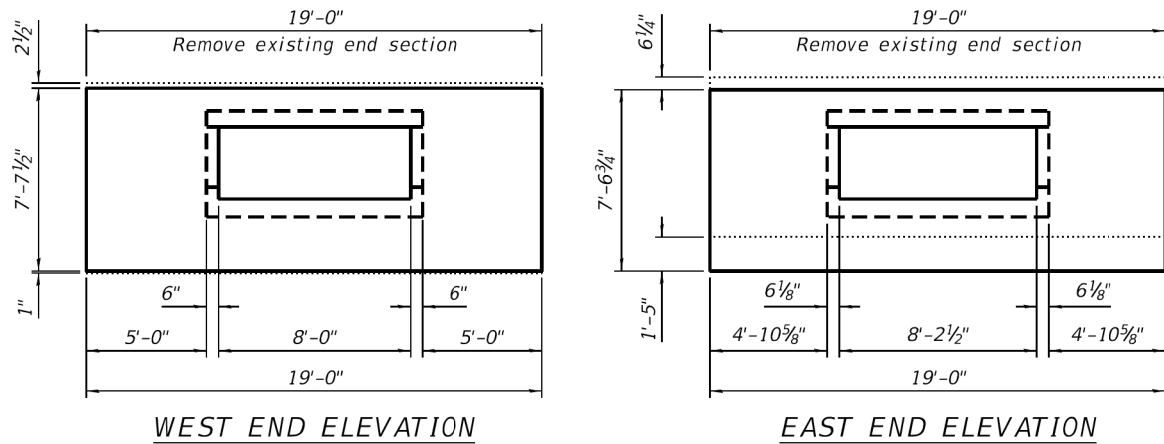
**Existing Structure:**  
 The existing structure is a single cell reinforced concrete box culvert. The culvert is 67'-4" in length (out-to-out headwalls). The cell width is approximately eight (8) feet and the cell height is approximately three (3) feet. The structure spans east to west and carries one lane each of southbound and northbound traffic for a total of two (2) lanes. A metal guardrail is present on the west side of the culvert. Remove and replace 4'-0" of the west end of the culvert, and 2'-0" of the east end of the culvert.

**SCOPE OF WORK:**

1. Remove the east and west end sections of the existing culvert.
2. Construct the east and west end sections.
3. Remove the guardrail and guardrail posts on the west side of the roadway. Install the proposed guardrail on the west side of the roadway (See roadway plans).

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	103
Concrete Removal	Cu. Yd.	8.0
Structure Excavation	Cu. Yd.	122
Reinforcement Bars, Epoxy Coated	Pound	2,520
Temporary Soil Retention System	Sq. Ft.	139
Expansion Bolts, 3/4"	Each	32
Concrete Box Culverts	Cu. Yd.	11.1
Geocomposite Wall Drain	Sq. Yd.	6
Membrane Waterproofing System for Buried Structures	Sq. Yd.	6
Cofferdam (Type 1) (In-Stream/Wetland Work)	Each	1

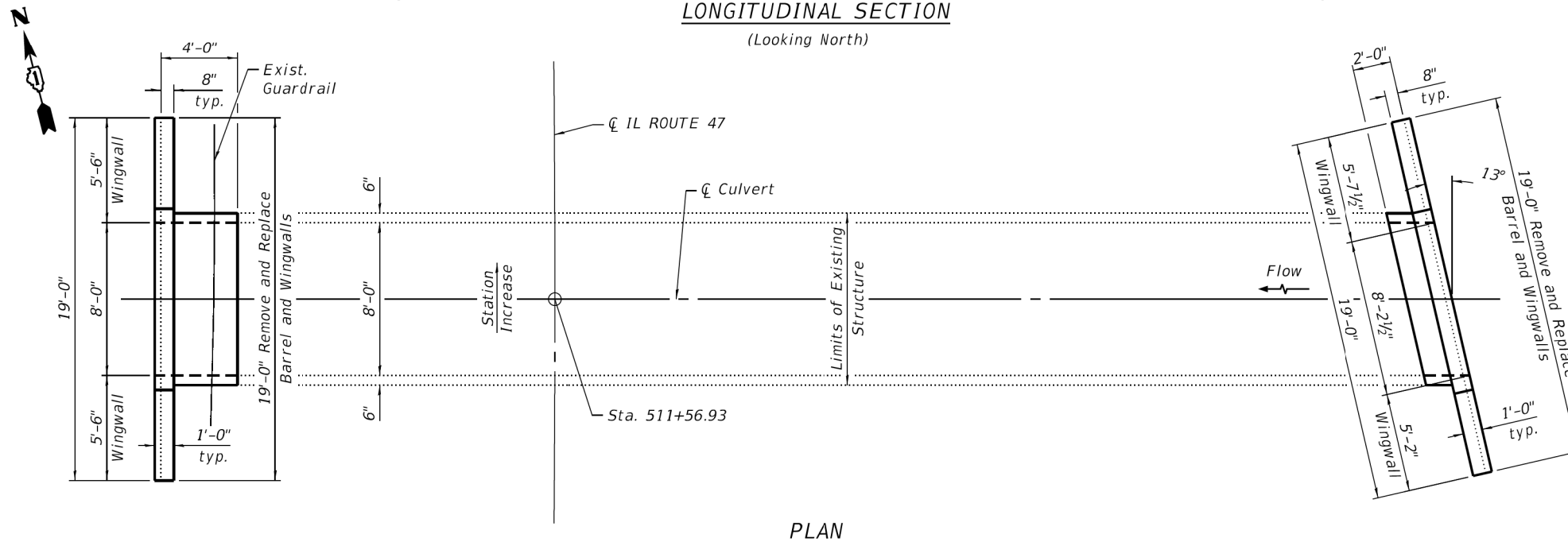
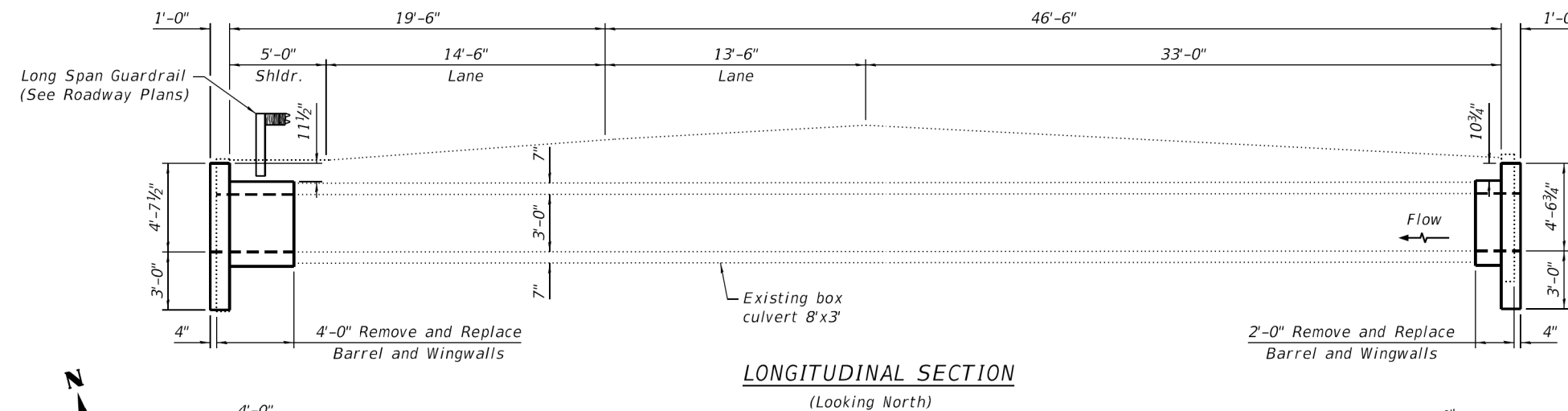


**WATERWAY INFORMATION**

2-Year Peak Flow = 64.6 cfs  
 2-Year Peak Elevation = 903.97

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and a minimum of 5" into existing concrete.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
5. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



**INDEX OF SHEETS**

1. General Plan and Elevation
2. Box Culvert Structure Removal and Excavation - West
3. Box Culvert Structure Removal and Excavation - East
4. Box Culvert Repair Details - West
5. Box Culvert Repair Details - East

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS-20**

No future wearing surface will be allowed.

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

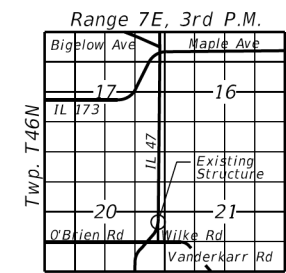
**GENERAL PLAN AND ELEVATION  
 IL RTE. 47 OVER DRAINAGE DITCH**

F.A.P. RTE. 326 SEC. 2019-039-T

MCHENRY COUNTY

STATION 511+56.93

S.N. 056-0237

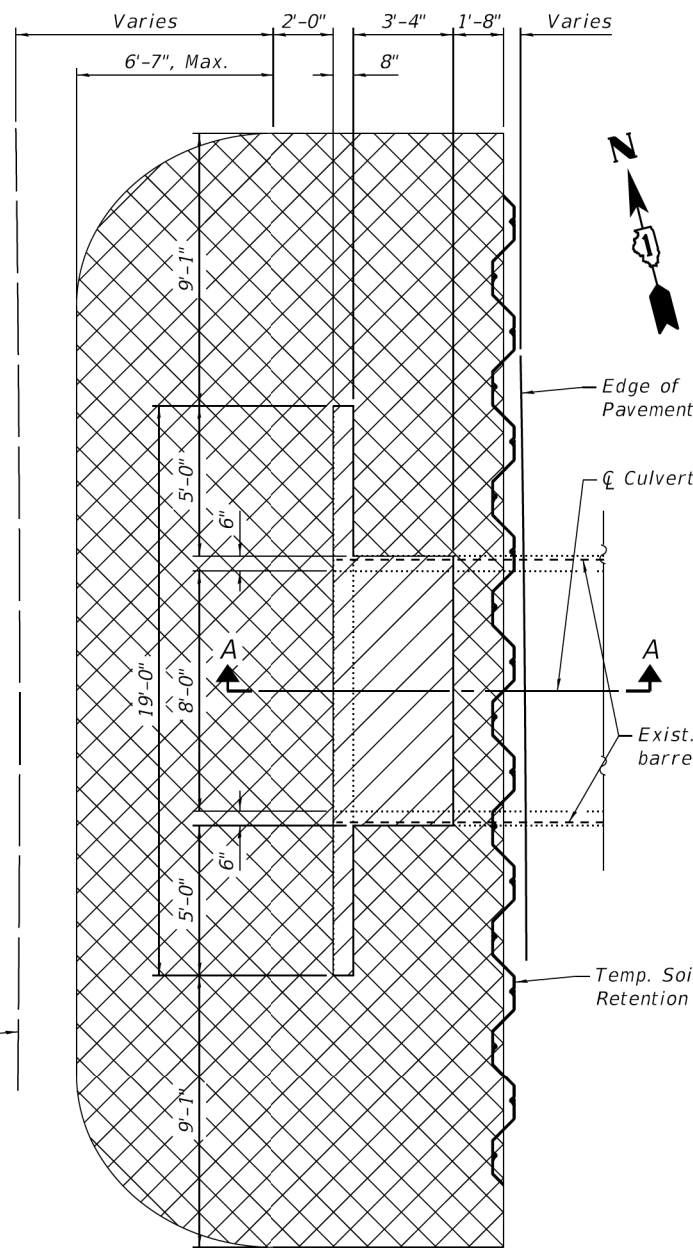


**LOCATION SKETCH**

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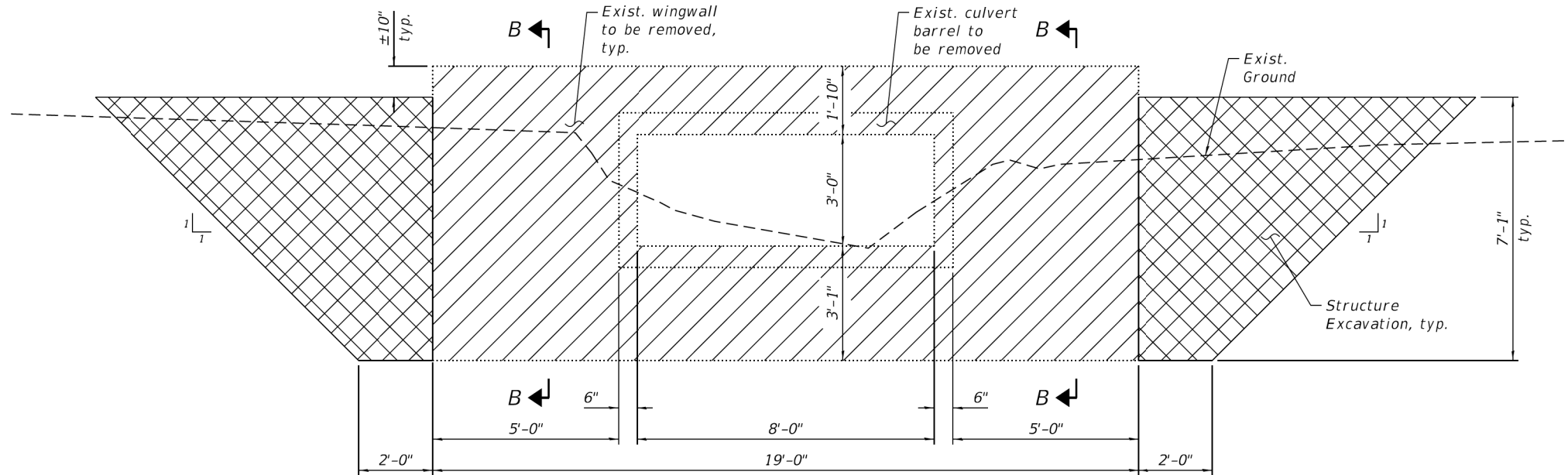
<b>EFK Moen</b> Civil Engineering Design	USER NAME =	DESIGNED - CMC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 47</b> <b>GENERAL PLAN AND ELEVATION</b>	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
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						ILLINOIS FED. AID PROJECT				

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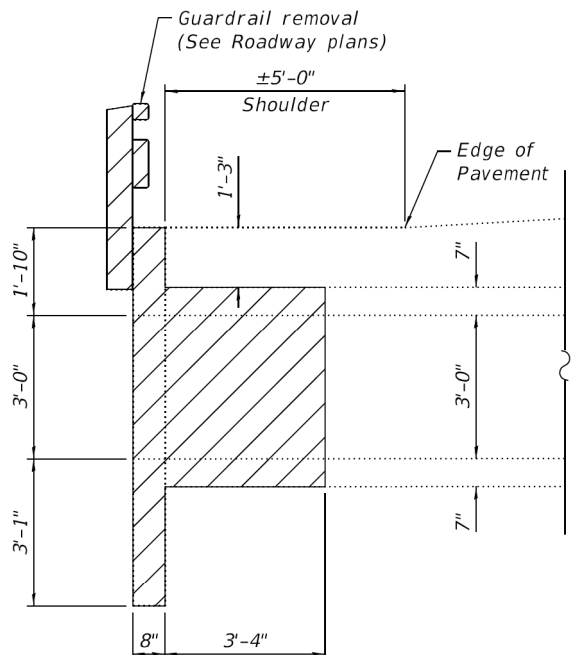


STRUCTURE REMOVAL PLAN

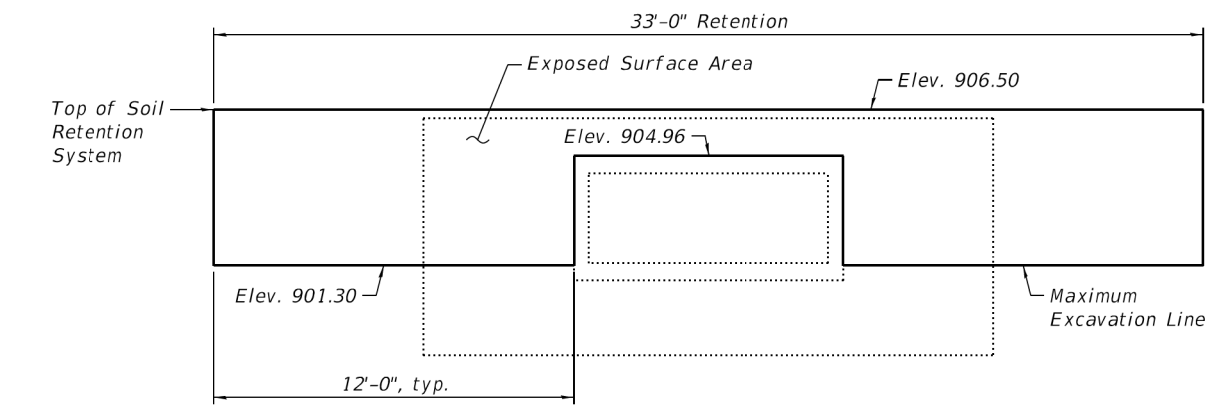
Notes:  
 Dimensions shown have been taken from existing plans and survey data and may not represent "as built" conditions. The contractor must verify all dimensions in the field. Variation in the field dimensions shall not warrant additional compensation for Concrete Removal.  
 The Contractor shall field verify exact location of all existing utilities prior to construction and take precautions not to damage existing utilities during excavations, construction or other underground work. Any such damage shall be repaired by the Contractor at no additional cost.  
 Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



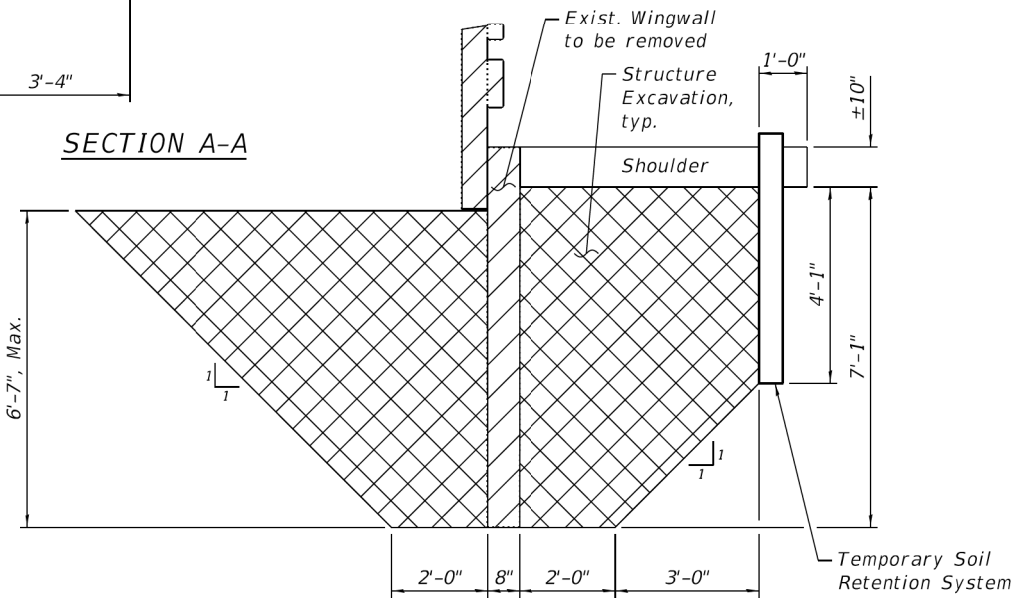
END VIEW  
 (Looking East)



SECTION A-A



TEMPORARY SOIL RETENTION SYSTEM  
 (Looking East)



SECTION B-B

**LEGEND**

	Structure Excavation
	Concrete Removal

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	6.2
Structure Excavation	Cu. Yd.	33
Temporary Soil Retention System	Sq. Ft.	139



USER NAME =	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - CDL	REVISED -
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	CHECKED -	REVISED -

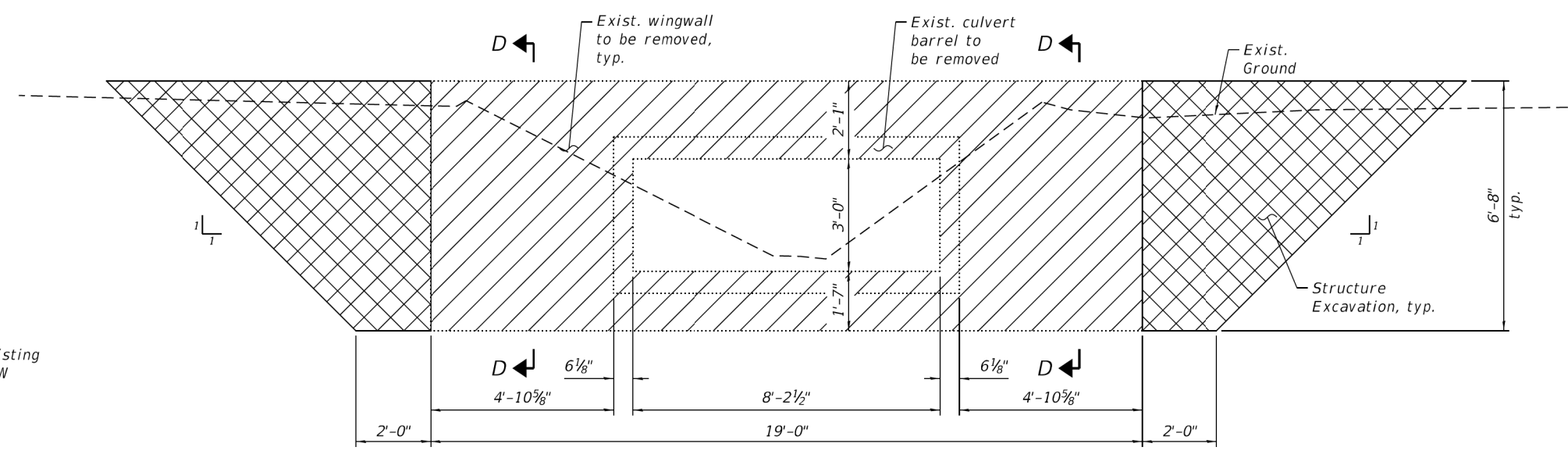
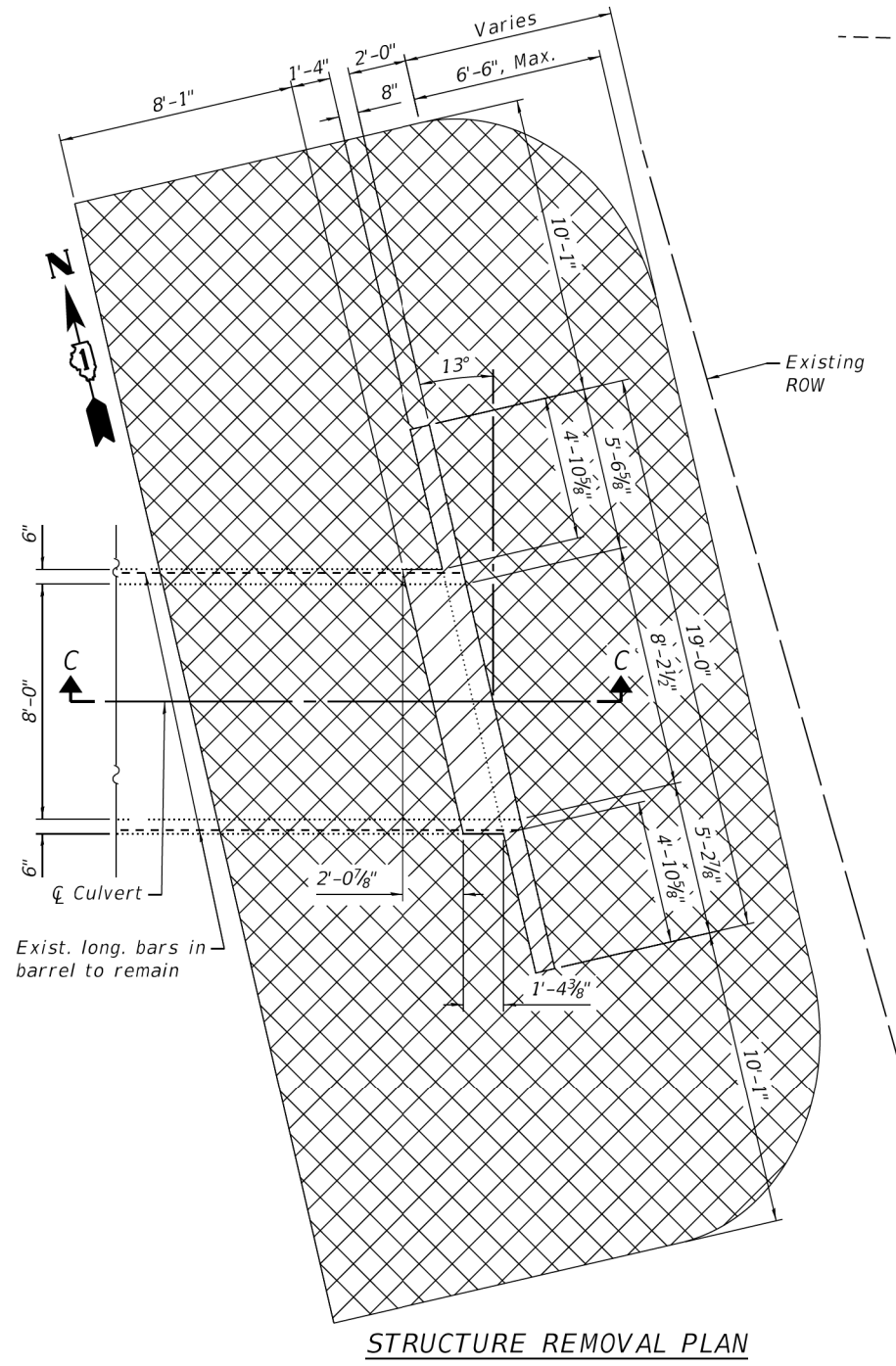
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 47  
 BOX CULVERT STRUCTURE REMOVAL AND EXCAVATION - WEST

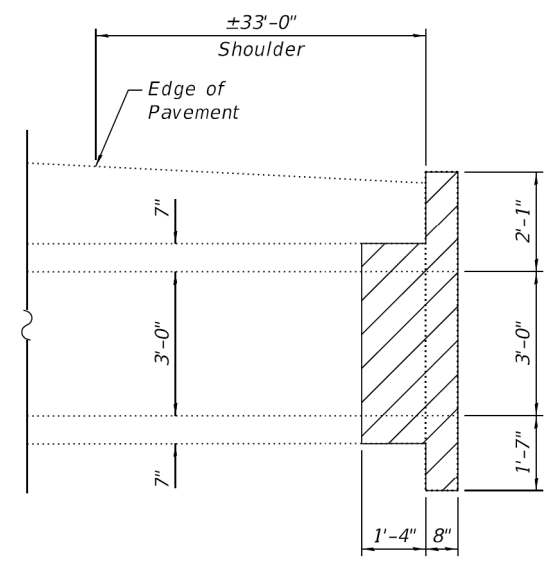
SHEET 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	17
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

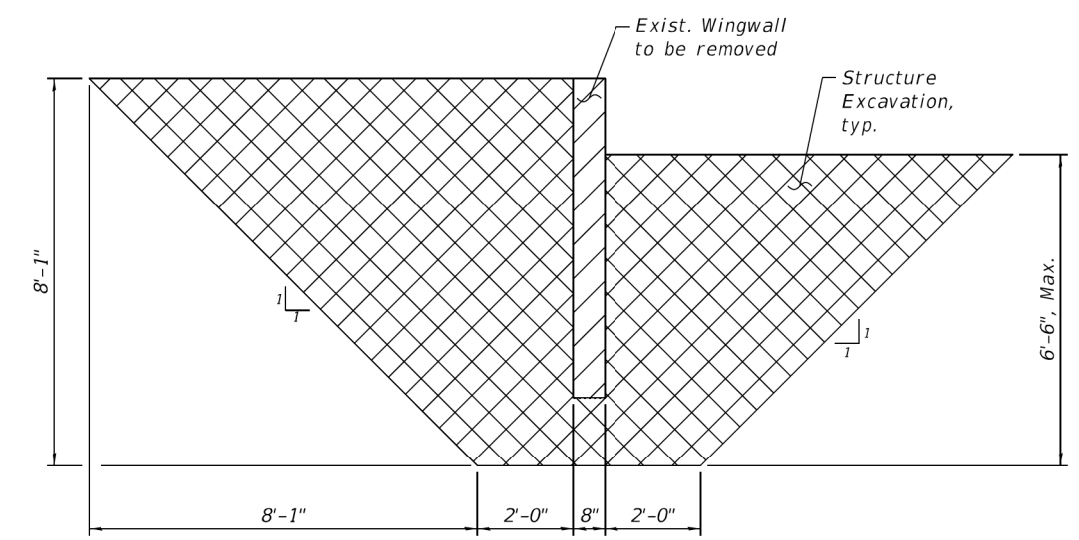
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END VIEW  
 (Looking West)



SECTION C-C



SECTION D-D

LEGEND

- Structure Excavation
- Concrete Removal

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	3.2
Structure Excavation	Cu. Yd.	89

Notes:

Dimensions shown have been taken from existing plans and survey data and may not represent "as built" conditions. The contractor must verify all dimensions in the field. Variation in the field dimensions shall not warrant additional compensation for Concrete Removal.

The Contractor shall field verify exact location of all existing utilities prior to construction and take precautions not to damage existing utilities during excavations, construction or other underground work. Any such damage shall be repaired by the Contractor at no additional cost.

Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

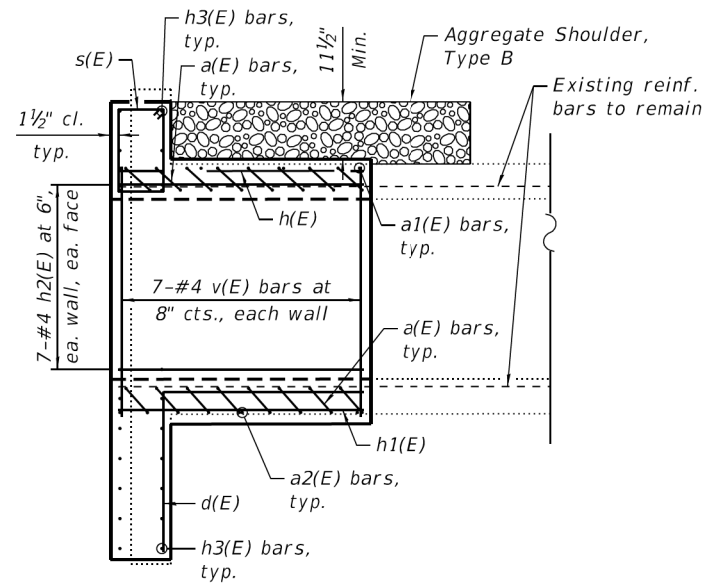


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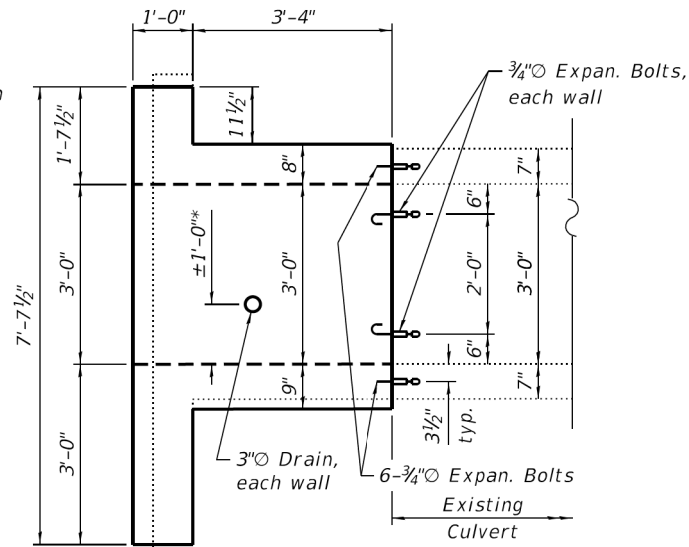
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 47  
 BOX CULVERT STRUCTURE REMOVAL AND EXCAVATION - EAST

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CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

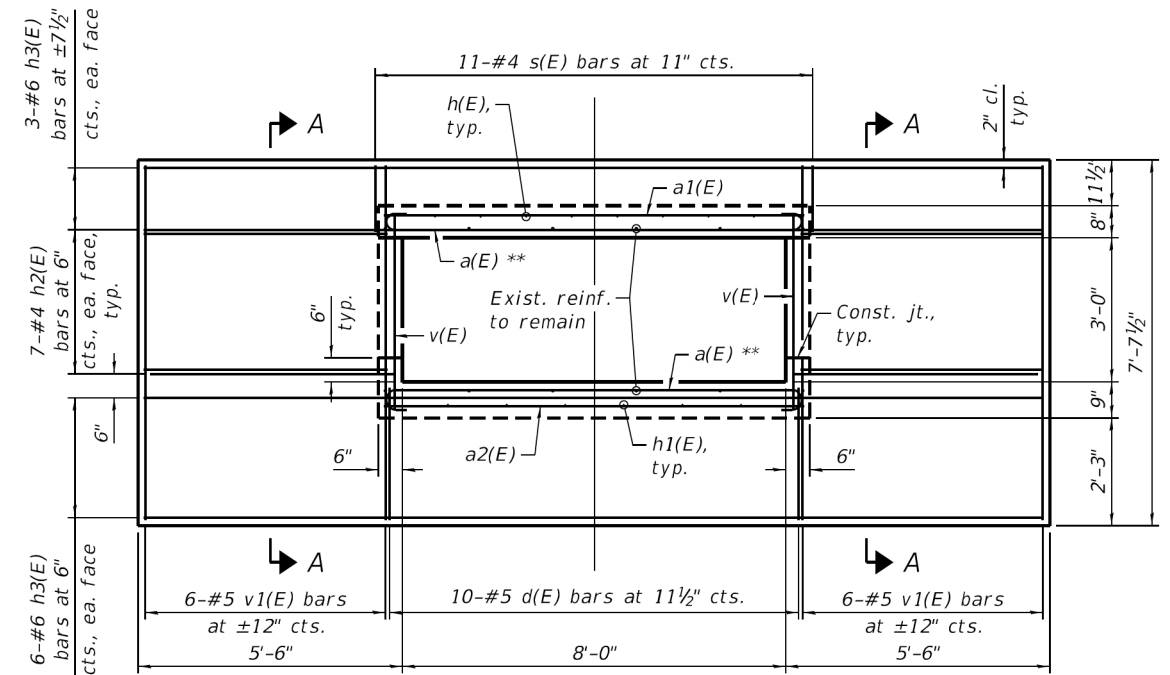


LONGITUDINAL SECTION



ELEVATION

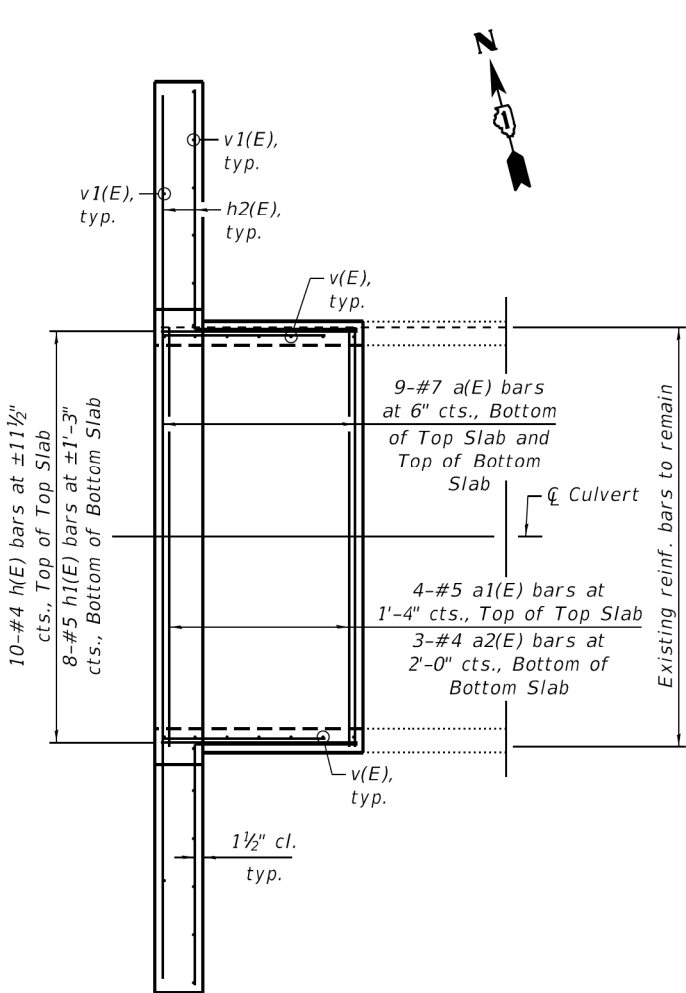
\* Set drain holes so reinforcement around drain holes maintains no less than 2" cover



END ELEVATION

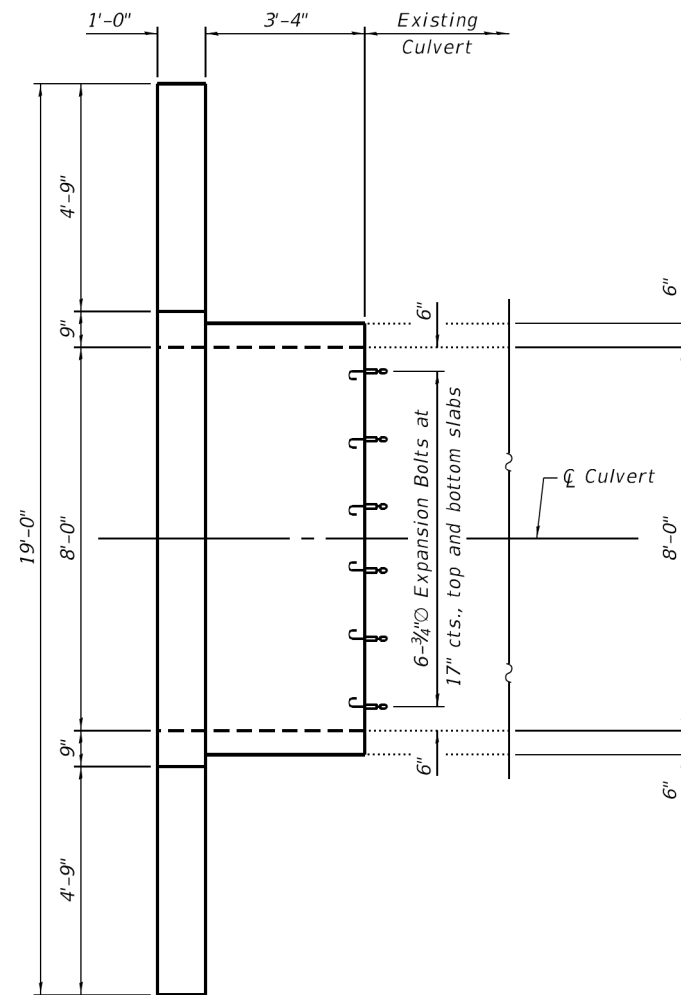
(Looking East)

\*\* Tilt hook of a(E) bars if necessary for 1 1/2" min. cl.

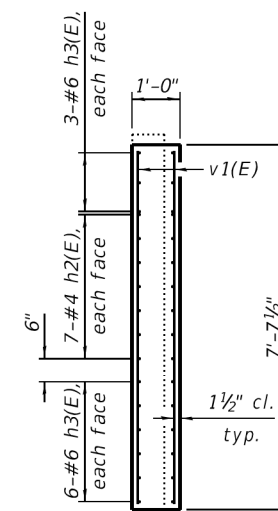


SHOWING REINFORCEMENT

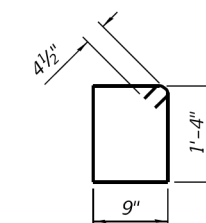
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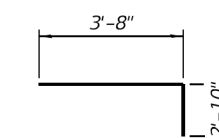
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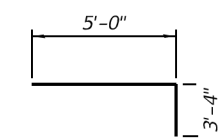
SECTION A-A



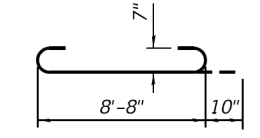
BAR s(E)



BAR d(E)



BAR h2(E)



BAR a(E)

WEST END  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	18	#7	10'-4"		
a1(E)	4	#5	8'-8"		
a2(E)	3	#4	8'-8"		
d(E)	10	#5	6'-6"		
h(E)	10	#4	3'-8"		
h1(E)	8	#5	3'-8"		
h2(E)	28	#4	8'-4"		
h3(E)	18	#6	18'-8"		
v(E)	14	#4	4'-1"		
v1(E)	14	#5	7'-3"		
s(E)	11	#4	4'-11"		
Reinforcement Bars, Epoxy Coated				Pound	1,400
Concrete Box Culverts				Cu. Yd.	6.2
Expansion Bolts, 3/4"				Each	16
Porous Granular Embankment				Cu. Yd.	26

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**EFK Moen**  
Civil Engineering Design

USER NAME =	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - CDL	REVISED -
PLOT DATE =	DRAWN - CMC	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

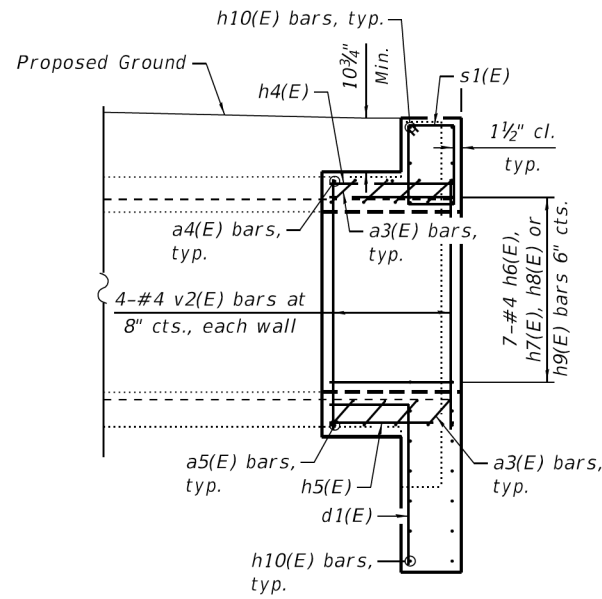
IL ROUTE 47  
BOX CULVERT REPAIR DETAILS - WEST

SHEET 4 OF 5 SHEETS

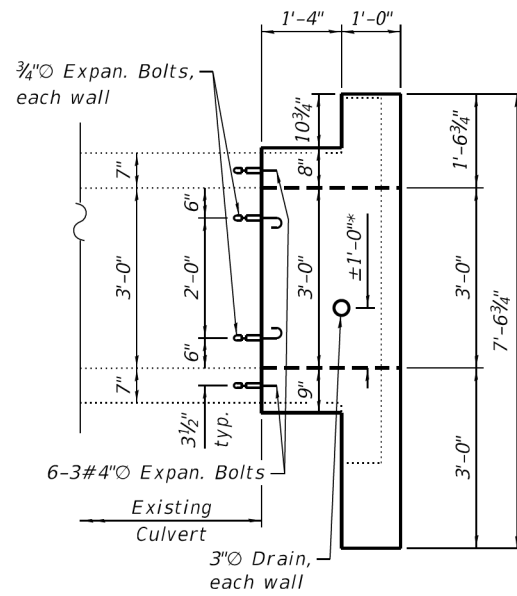
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326	2019-039-T	MCHENRY	34	19
CONTRACT NO. 62J17				

ILLINOIS FED. AID PROJECT



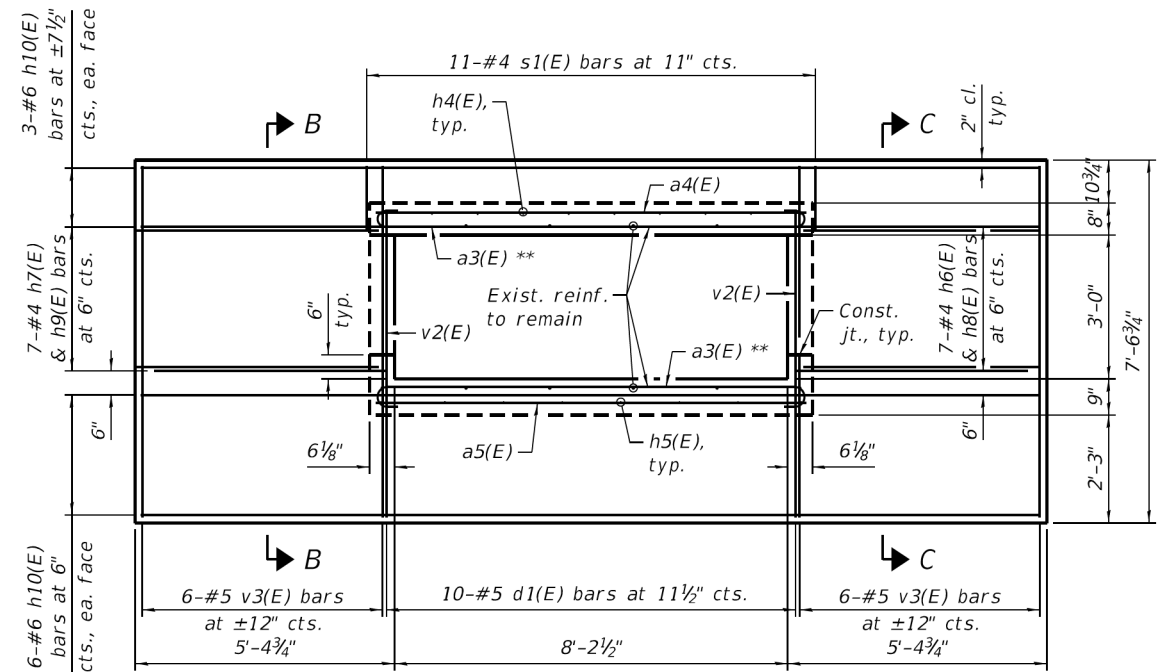


LONGITUDINAL SECTION



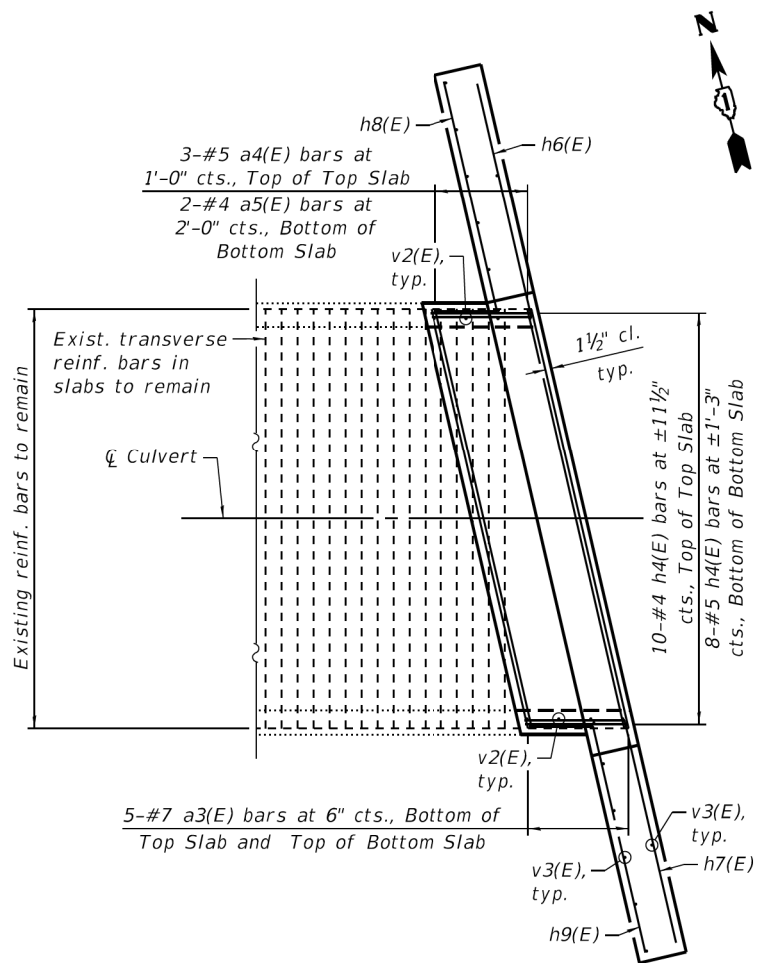
ELEVATION

\* Set drain holes so reinforcement around drain holes maintains no less than 2" cover

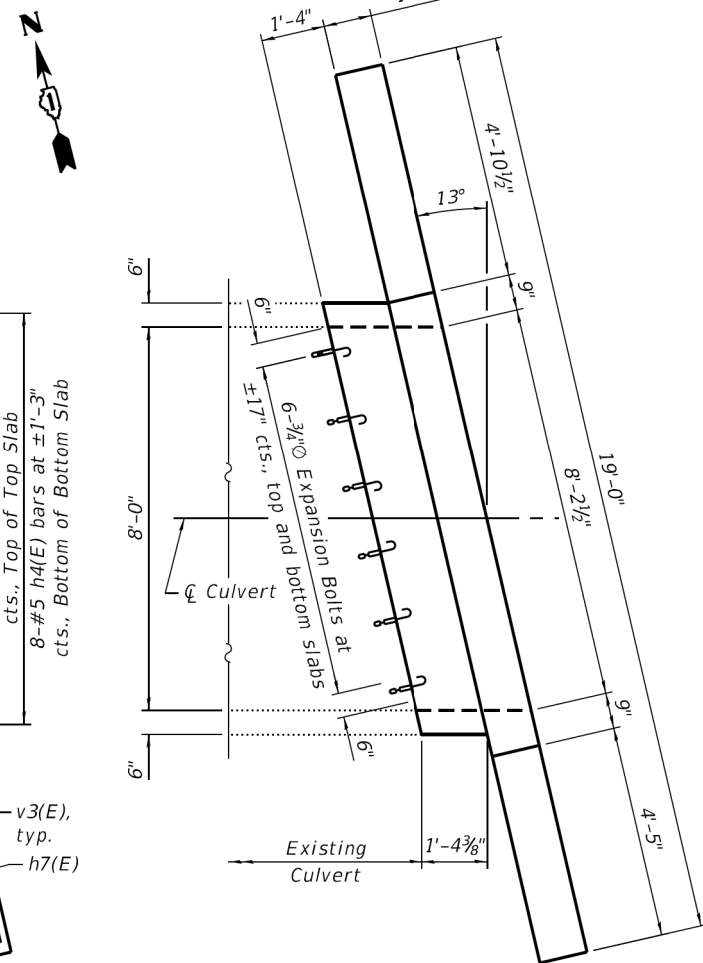


END ELEVATION  
(Looking West)

\*\* Tilt hook of a3(E) bars if necessary for 1 1/2" min. cl.

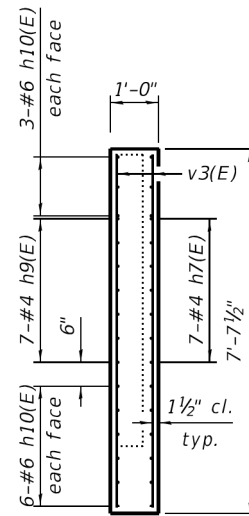


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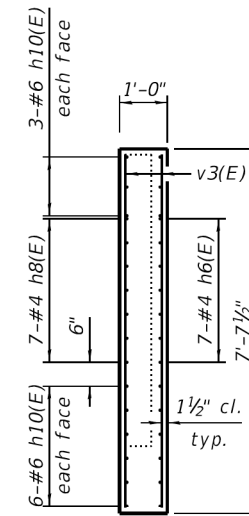


SHOWING OUTLINES

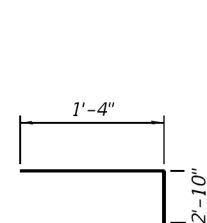
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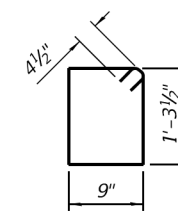
SECTION B-B



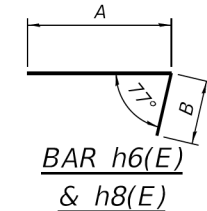
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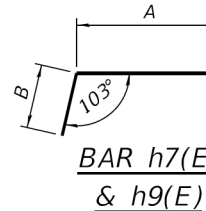
BAR d1(E)



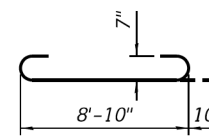
BAR s1(E)



BAR h6(E)  
& h8(E)



BAR h7(E)  
& h9(E)



BAR a3(E)

EAST END  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a3(E)	10	#7	10'-6"		
a4(E)	3	#5	8'-10"		
a5(E)	2	#4	8'-10"		
d1(E)	10	#5	4'-2"		
h4(E)	10	#4	2'-0"		
h5(E)	8	#5	2'-0"		
h6(E)	7	#4	7'-1"		
h7(E)	7	#4	6'-10"		
h8(E)	7	#4	6'-2"		
h9(E)	7	#4	6'-2"		
h10(E)	18	#6	18'-8"		
v2(E)	8	#4	4'-1"		
v3(E)	14	#5	7'-3"		
s1(E)	11	#4	4'-10"		
Reinforcement Bars, Epoxy Coated				Pound	1,120
Concrete Box Culverts				Cu. Yd.	4.9
Expansion Bolts, 3/4"				Each	16
Porous Granular Embankment				Cu. Yd.	77

Bar	A	B
h6(E)	5'-0"	2'-1"
h7(E)	4'-9"	2'-1"
h8(E)	4'-10"	1'-4"
h9(E)	4'-10"	1'-4"

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**EFK Moen**  
Civil Engineering Design

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PLOT SCALE =	CHECKED - CDL	REVISED -
PLOT DATE =	DRAWN - CMC	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47  
BOX CULVERT REPAIR DETAILS - EAST

SHEET 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2019-039-T	MCHENRY	34	20
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

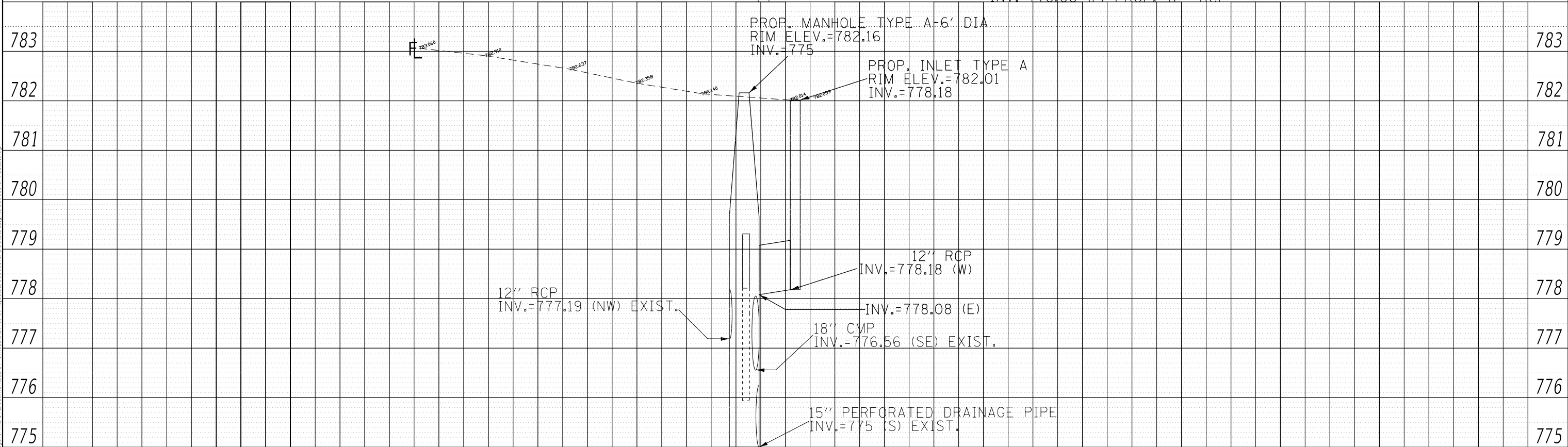
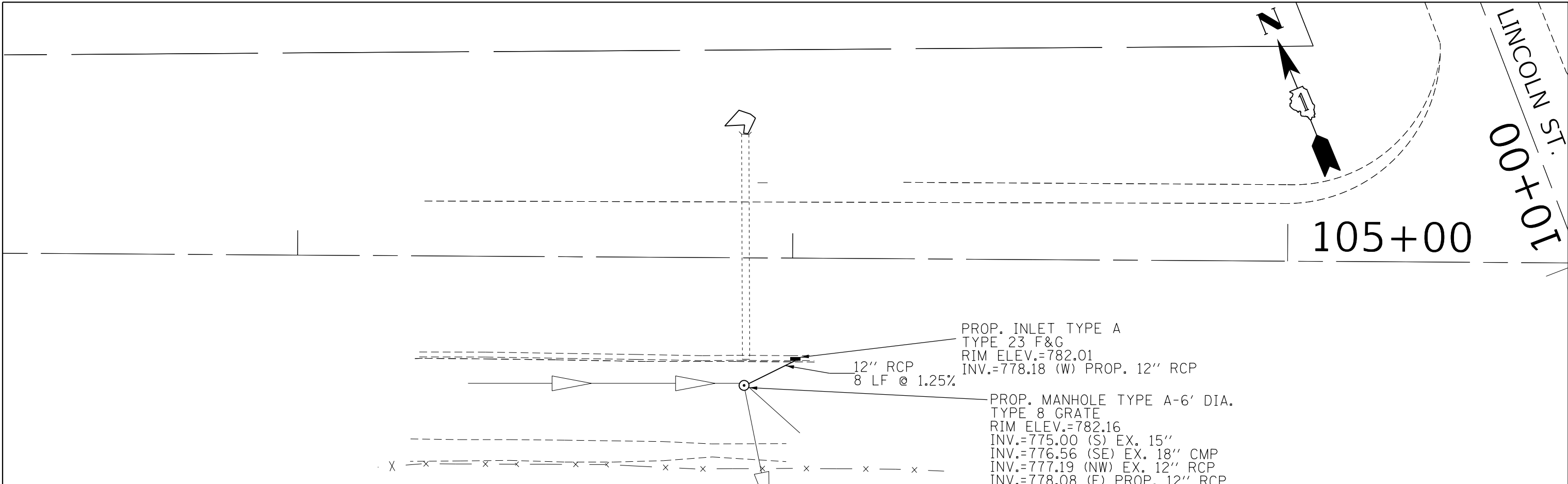




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	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
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	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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LOCATION 3

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PLOT DATE = 2/6/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN  
 IL. ROUTE 19 (W/O LINCOLN ST.)

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

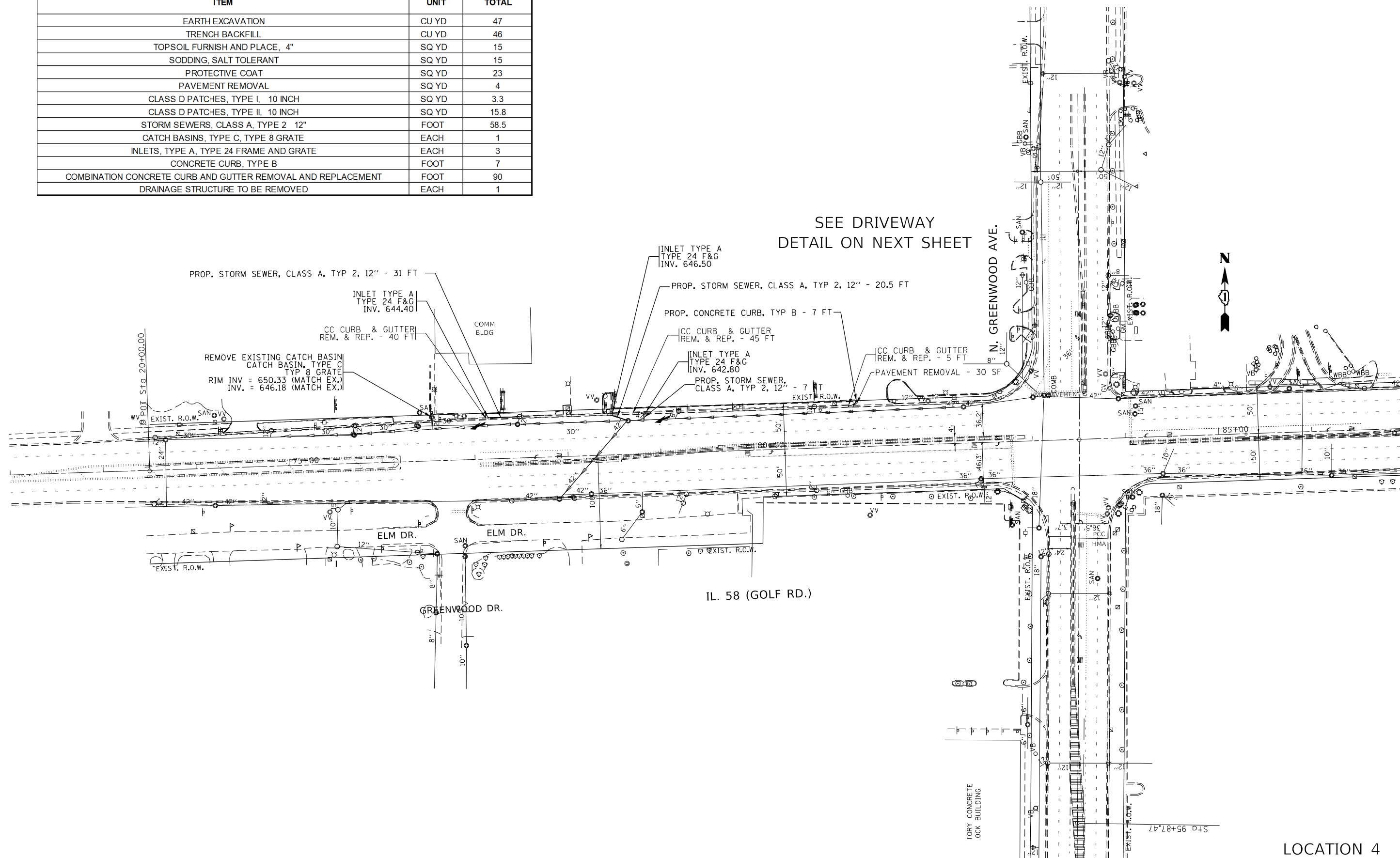
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	DUPAGE	34	22
			CONTRACT NO. 62J19	
ILLINOIS FED. AID PROJECT				



LOCATION 4 - SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	47
TRENCH BACKFILL	CU YD	46
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	15
SODDING, SALT TOLERANT	SQ YD	15
PROTECTIVE COAT	SQ YD	23
PAVEMENT REMOVAL	SQ YD	4
CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	3.3
CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	15.8
STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	58.5
CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1
INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	3
CONCRETE CURB, TYPE B	FOOT	7
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	90
DRAINAGE STRUCTURE TO BE REMOVED	EACH	1

SEE DRIVEWAY  
DETAIL ON NEXT SHEET



LOCATION 4

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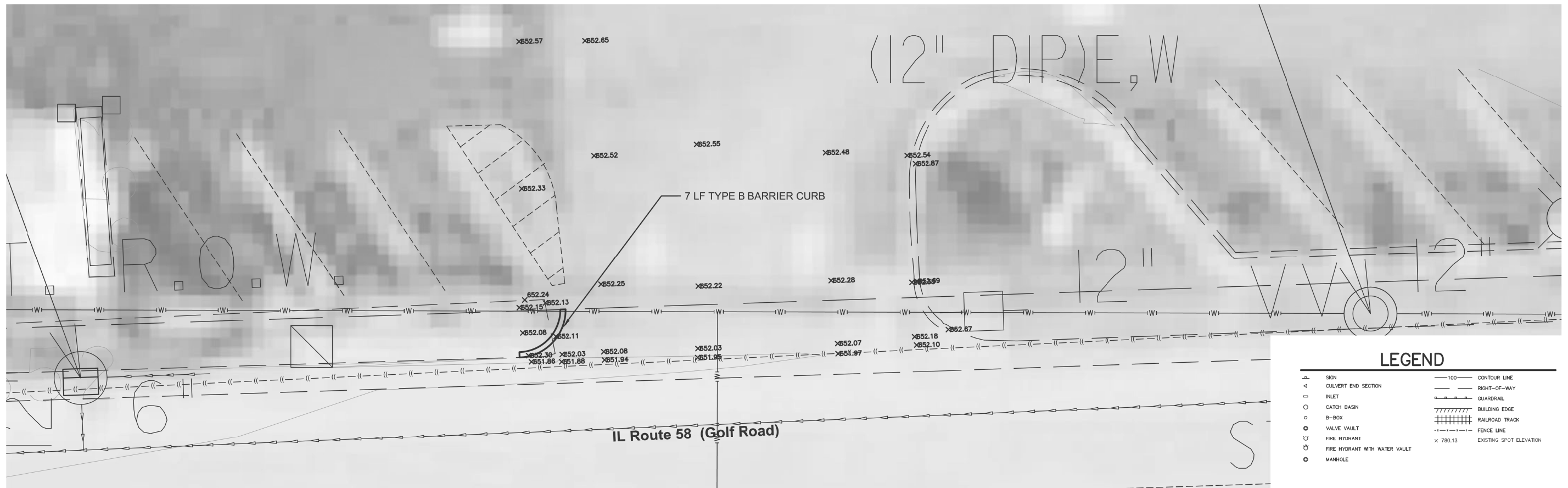
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PLOT DATE = 2/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 58 (WO GREENWOOD AVE.)  
PROPOSED DRAINAGE PLAN

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	COOK	34	24
CONTRACT NO. 62J17				
ILLINOIS		FED. AID PROJECT		



**LEGEND**

—	100	CONTOUR LINE
- - -		RIGHT-OF-WAY
- · - · -		GUARDRAIL
		BUILDING EDGE
		RAILROAD TRACK
- · - · -		FENCE LINE
x	780.13	EXISTING SPOT ELEVATION
—		SIGN
—		CULVERT END SECTION
—		INLET
○		CATCH BASIN
○		B-BOX
○		VALVE VAULT
⊕		FIRE HYDRANT
⊕		FIRE HYDRANT WITH WATER VAULT
○		MANHOLE

PROPOSED CURB DETAIL  
AT DRIVEWAY WEST OF GREENWOOD AVE.

LOCATION 4

MODEL: Default  
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/6/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

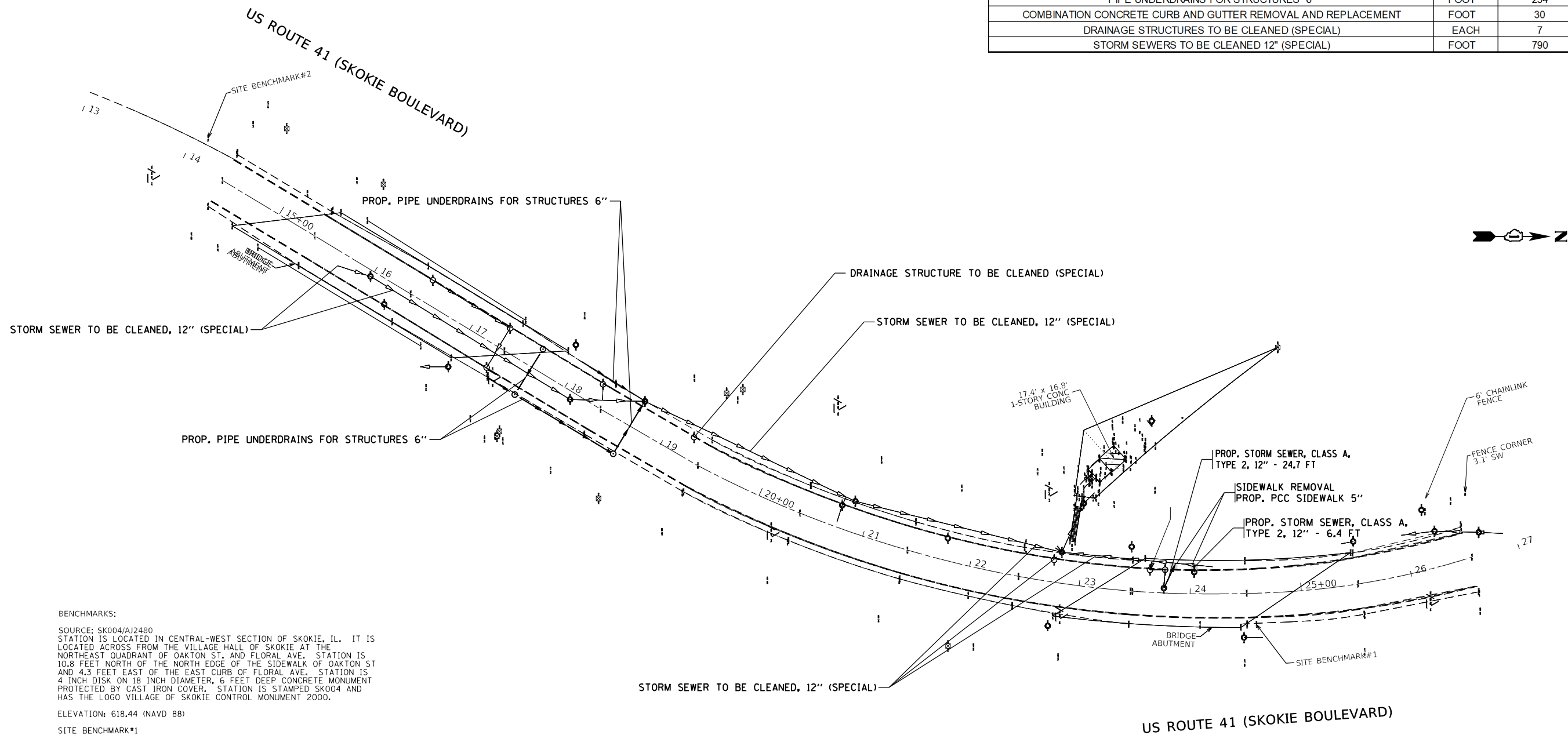
<b>IL ROUTE 58 (WO GREENWOOD AVE.) PROPOSED DRAINAGE PLAN</b>			
SCALE: 1" = 50'	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	COOK	34	25
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

**PROPOSED PIPE UNDERDRAINS SCHEDULE**  
 STA. 17+70, 28.9' RT TO STA. 18+65, 29' RT  
 STA. 18+01, 27.5' LT TO STA. 18+66, 36.3' LT

STA. 17+65.3 - 44 FT  
 STA. 18+68 - 50 FT

LOCATION 5 - SCHEDULE OF QUANTITIES		
ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	173
TRENCH BACKFILL	CU YD	91
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	66
SIDEWALK REMOVAL	SQ FT	66
CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	34
STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	31
STORM SEWER REMOVAL 12"	FOOT	30
STORM SEWERS TO BE CLEANED 12"	FOOT	100
PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	254
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	30
DRAINAGE STRUCTURES TO BE CLEANED (SPECIAL)	EACH	7
STORM SEWERS TO BE CLEANED 12" (SPECIAL)	FOOT	790



**BENCHMARKS:**  
 SOURCE: SK004/AJ2480  
 STATION IS LOCATED IN CENTRAL-WEST SECTION OF SKOKIE, IL. IT IS LOCATED ACROSS FROM THE VILLAGE HALL OF SKOKIE AT THE NORTHEAST QUADRANT OF OAKTON ST. AND FLORAL AVE. STATION IS 10.8 FEET NORTH OF THE NORTH EDGE OF THE SIDEWALK OF OAKTON ST AND 4.3 FEET EAST OF THE EAST CURB OF FLORAL AVE. STATION IS 4 INCH DISK ON 18 INCH DIAMETER, 6 FEET DEEP CONCRETE MONUMENT PROTECTED BY CAST IRON COVER. STATION IS STAMPED SK004 AND HAS THE LOGO VILLAGE OF SKOKIE CONTROL MONUMENT 2000.  
 ELEVATION: 618.44 (NAVD 88)  
 SITE BENCHMARK#1  
 BOX CUT ON LIGHT POLE BASE ON EAST SIDE OF SKOKIE BOULEVARD, FIRST LIGHT POLE NORTH OF ELECTRIC RAIL CROSSING. IT IS 1.0 FOOT EAST OF BACK OF WALK AND 16.1 FEET NORTHWEST OF A STORM MANHOLE.  
 ELEVATION: 592.96  
 SITE BENCHMARK#2  
 BOX CUT ON LIGHT POLE BASE LOCATED ON THE WEST SIDE OF SKOKIE BOULEVARD ON THE SECOND LIGHT POLE SOUTH OF ABANDONED RAILROAD VIADUCT. IT IS 6.0 FEET NORTHWEST OF BACK OF CURB.

**US ROUTE 41 (SKOKIE BOULEVARD)**  
**PROPOSED SIDEWALK REMOVAL & REPLACEMENT**  
 STA. 23+81.3 TO STA. 23+87.44 LT  
 STA. 24+00.4 TO STA. 24+06.5 LT

MODEL: Default  
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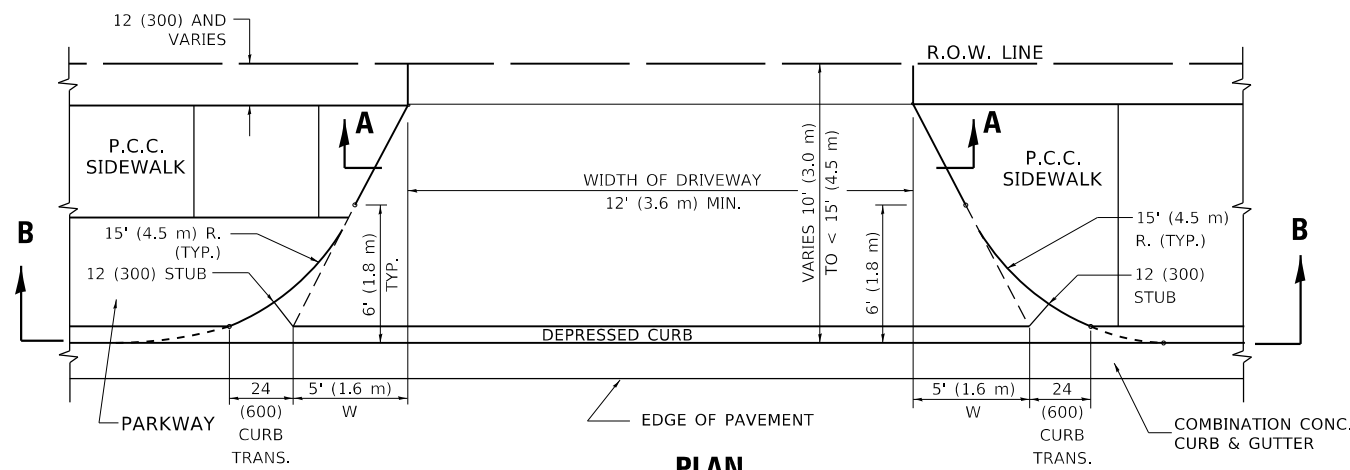
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PLOT DATE = 2/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

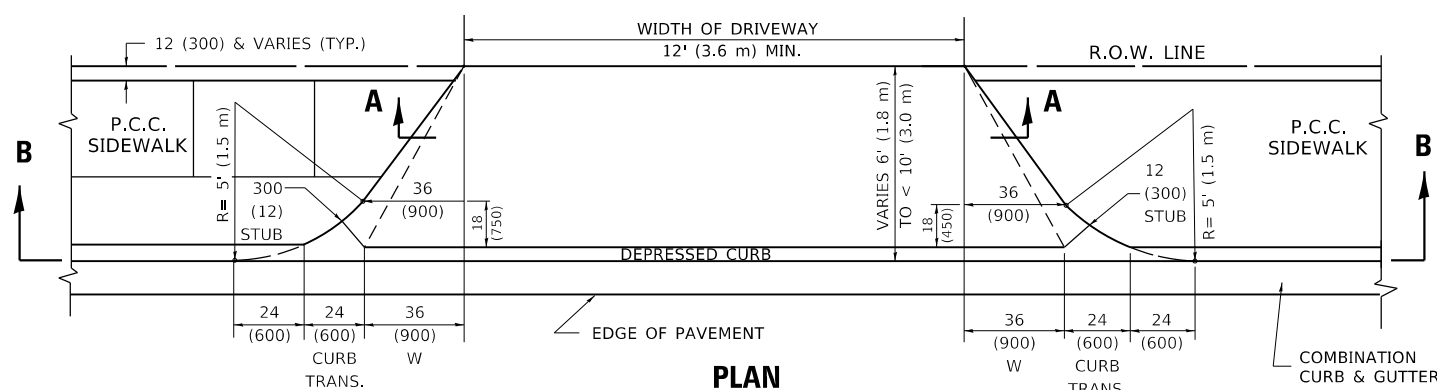
<b>US ROUTE 41 (SO OAKTON ST.)          PROPOSED DRAINAGE PLAN</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	COOK	34	26
CONTRACT NO. 62J17				
ILLINOIS FED. AID PROJECT				

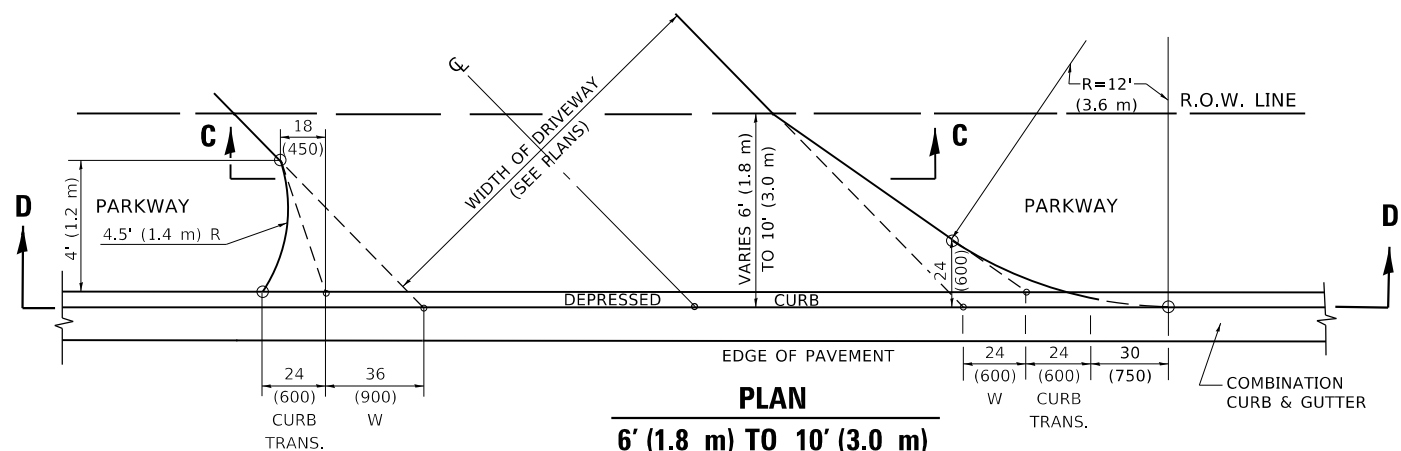
LOCATION 5



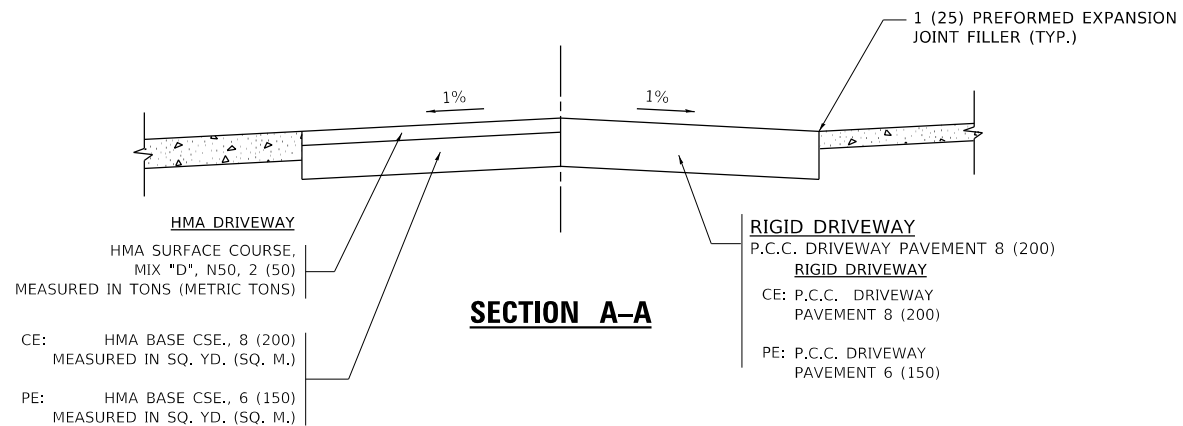
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



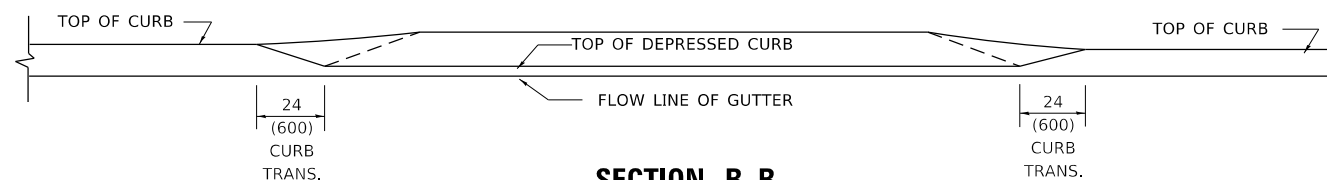
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



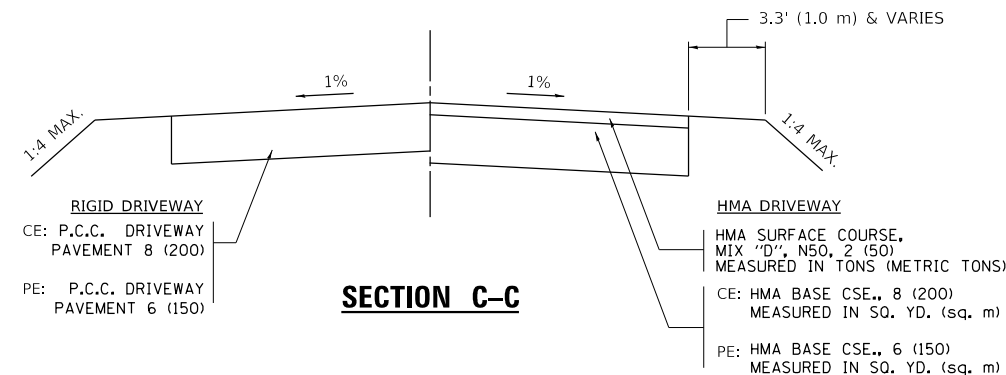
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



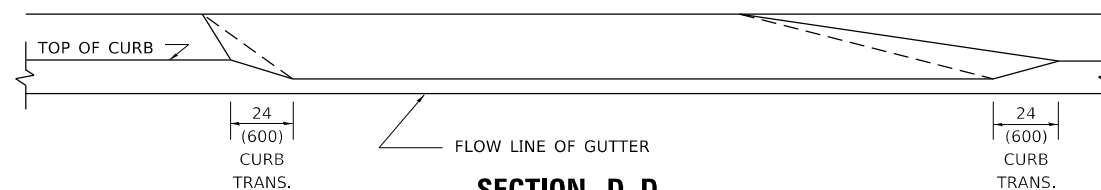
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**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. \*COOK, DUPAGE, MCHENRY

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS**  
**DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	27
BD400-02 (BD-02)			CONTRACT NO. 62J17	
ILLINOIS FED. AID PROJECT				

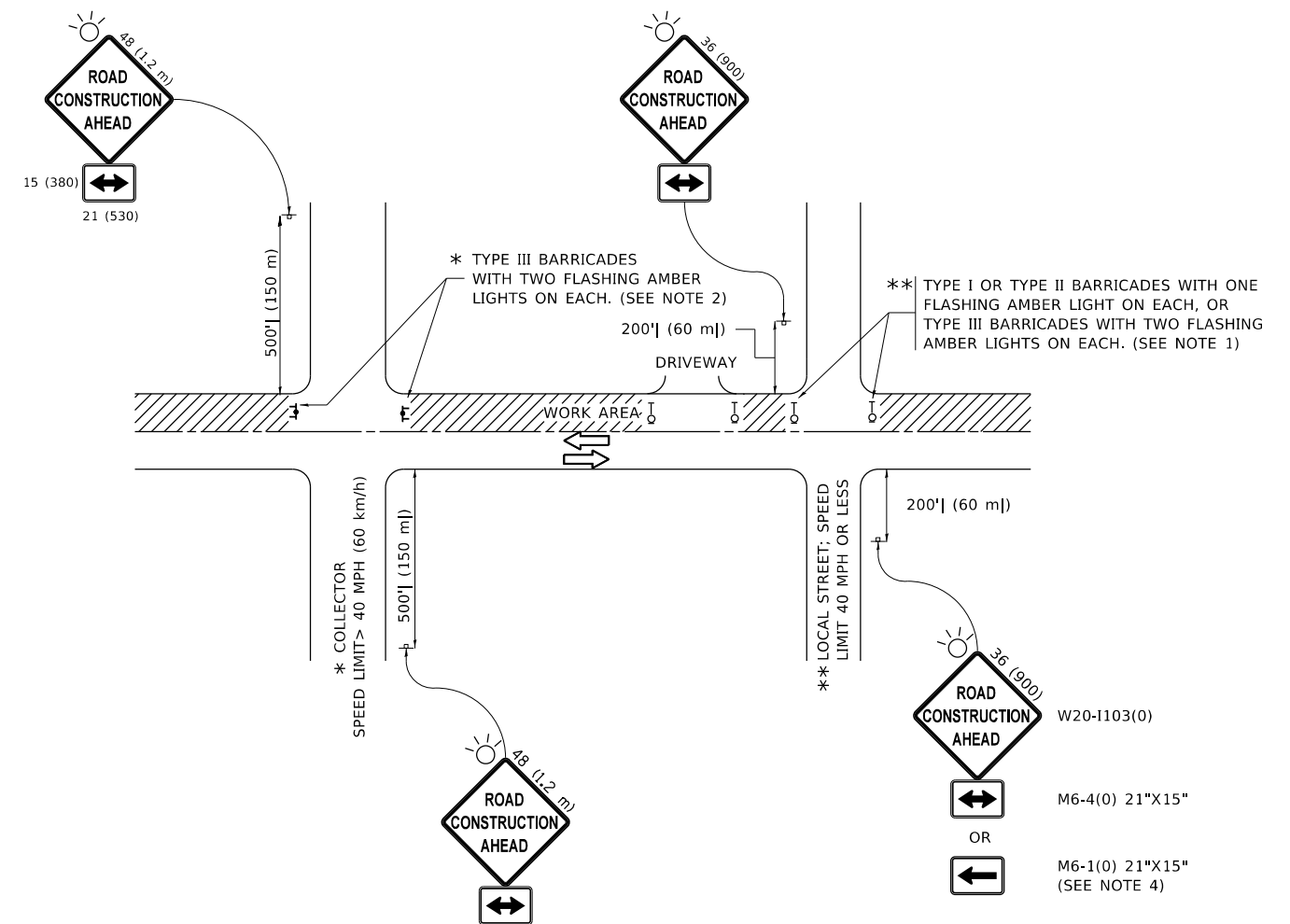
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - P. LofLUER 04-15-03
PLOT DATE = 2/6/2020	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 11-06-95	REVISED - R. BORO 09-06-11











**NOTES:**

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown. \*COOK, DUPAGE, MCHENRY

MODEL: Default  
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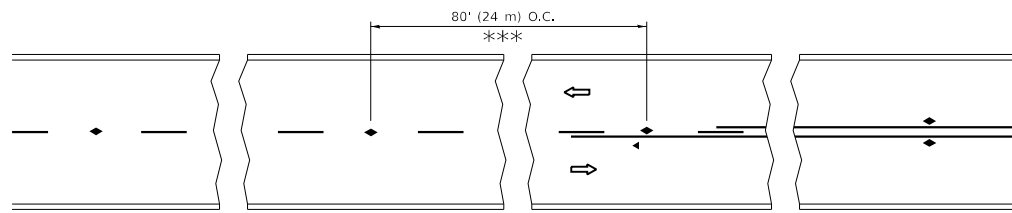
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PLOT DATE = 2/6/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

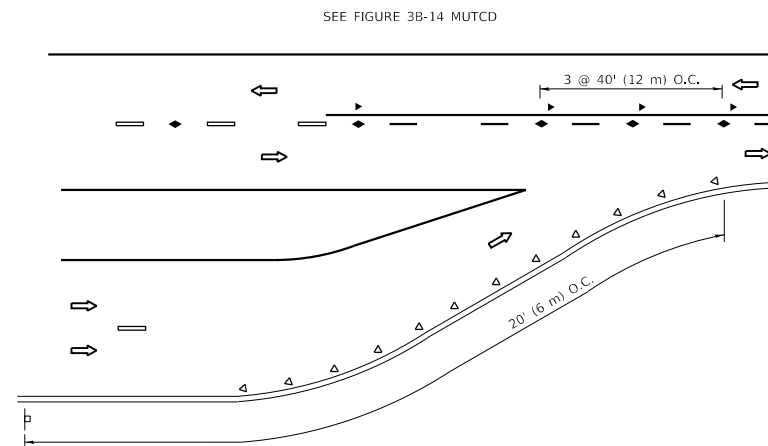
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	30
<b>TC-10</b>			CONTRACT NO. 62J17	
ILLINOIS FED. AID PROJECT				

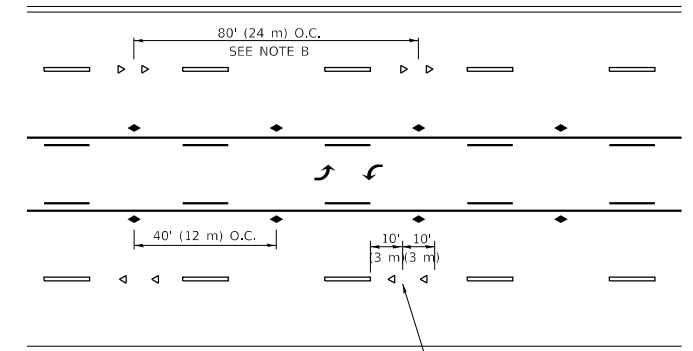


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

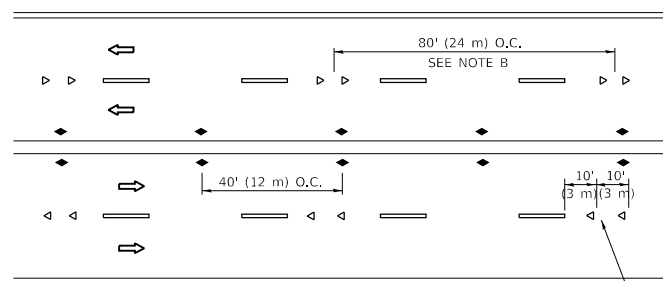
**TWO-LANE/TWO-WAY**



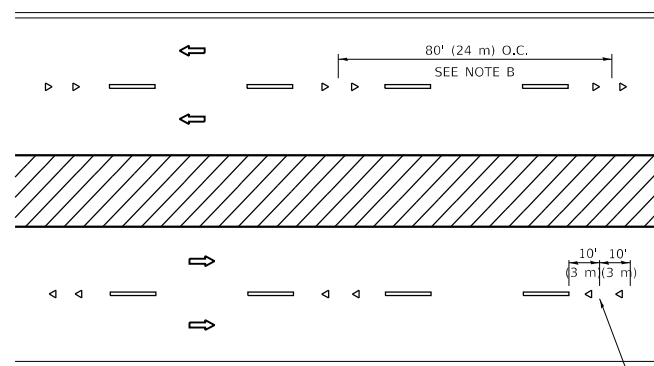
**LANE REDUCTION TRANSITION**



**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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

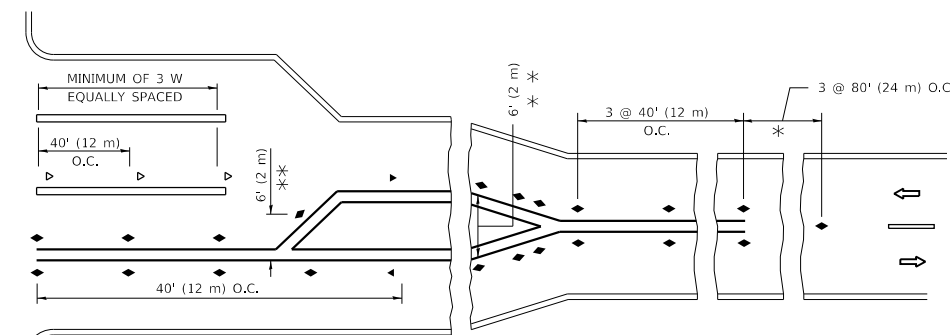
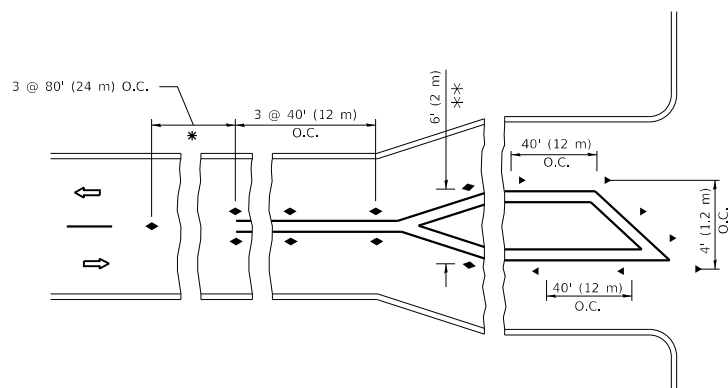
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

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



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

**TURN LANES**

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

\*COOK, DUPAGE, MCHENRY

MODEL: Default  
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

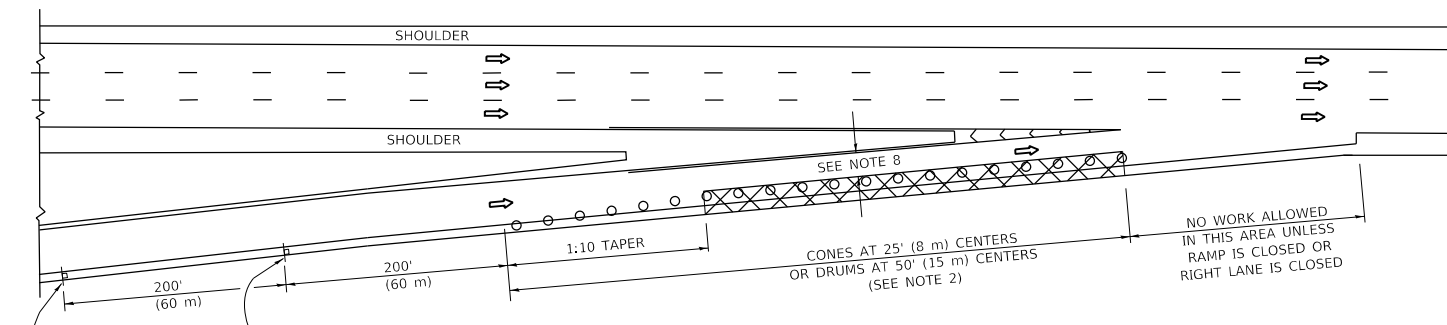
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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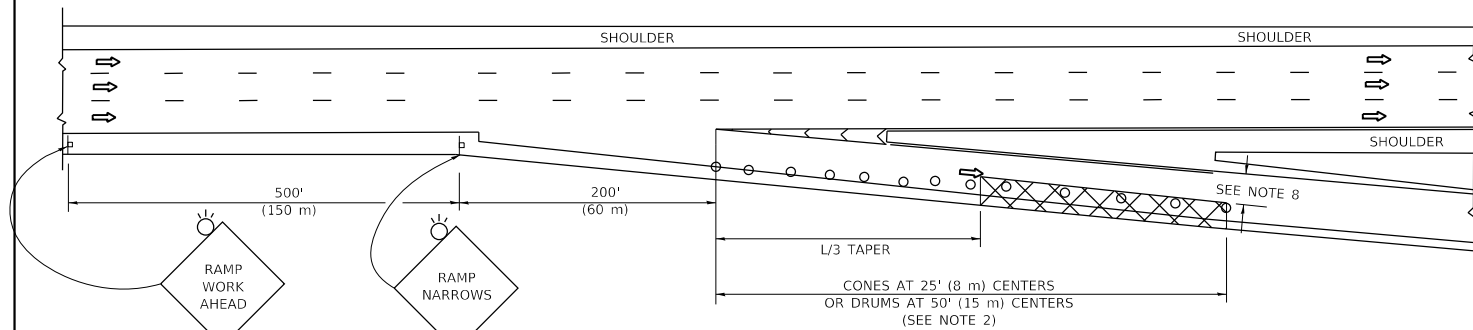
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	31
TC-11		CONTRACT NO. 62J17		
ILLINOIS		FED. AID PROJECT		



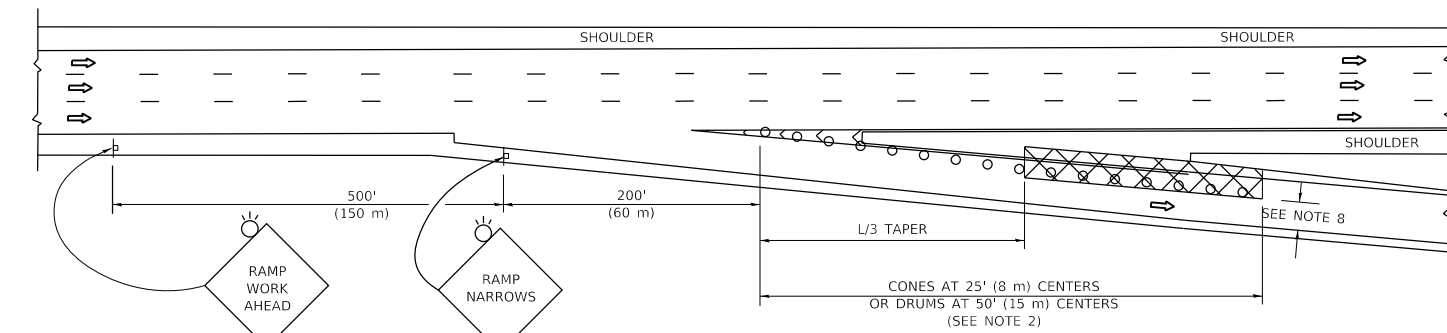
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

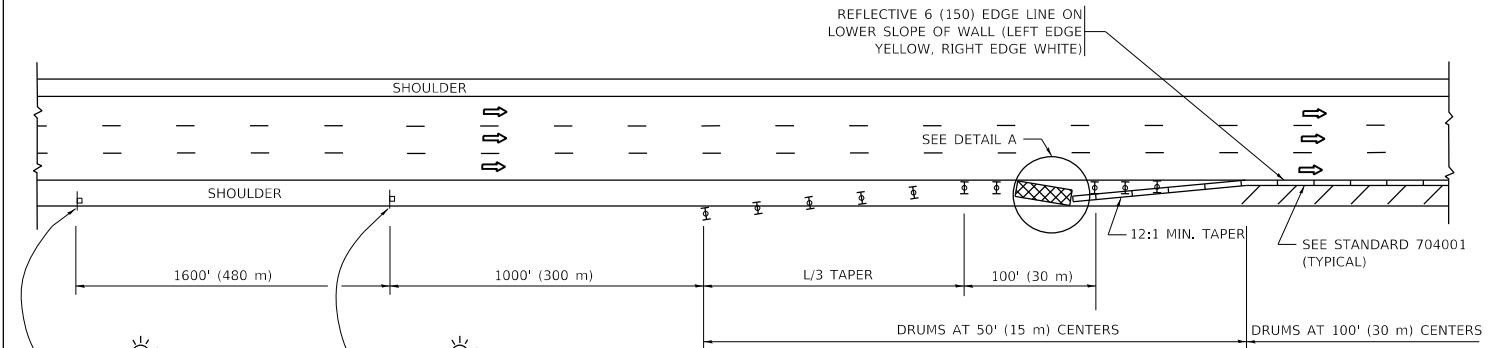
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES:**

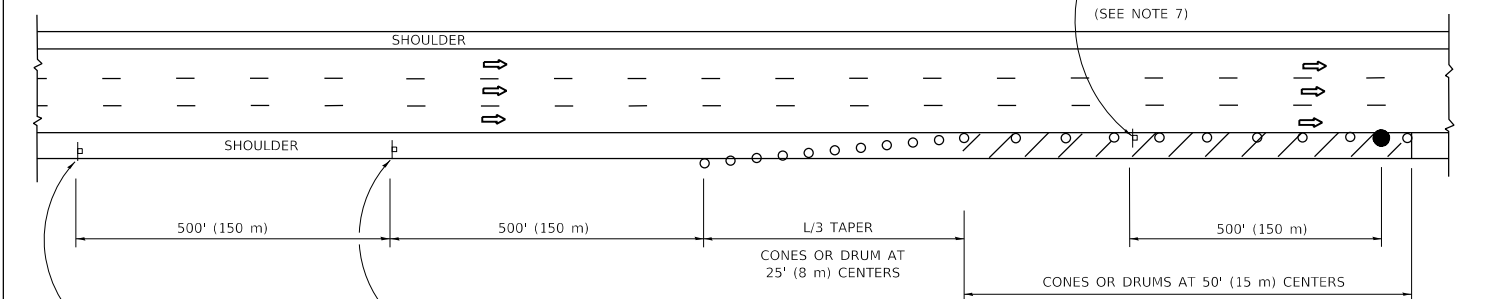
- THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WXS)$ $L=(WXS)$
	$W =$ WIDTH OF OFFSET IN FEET (METERS)
	$S =$ NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

**SHOULDER CLOSURE DETAILS**

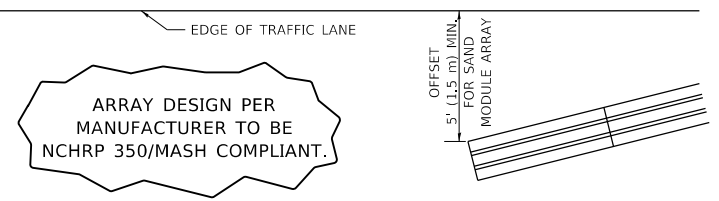


**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)

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

\*COOK, DUPAGE, MCHENRY

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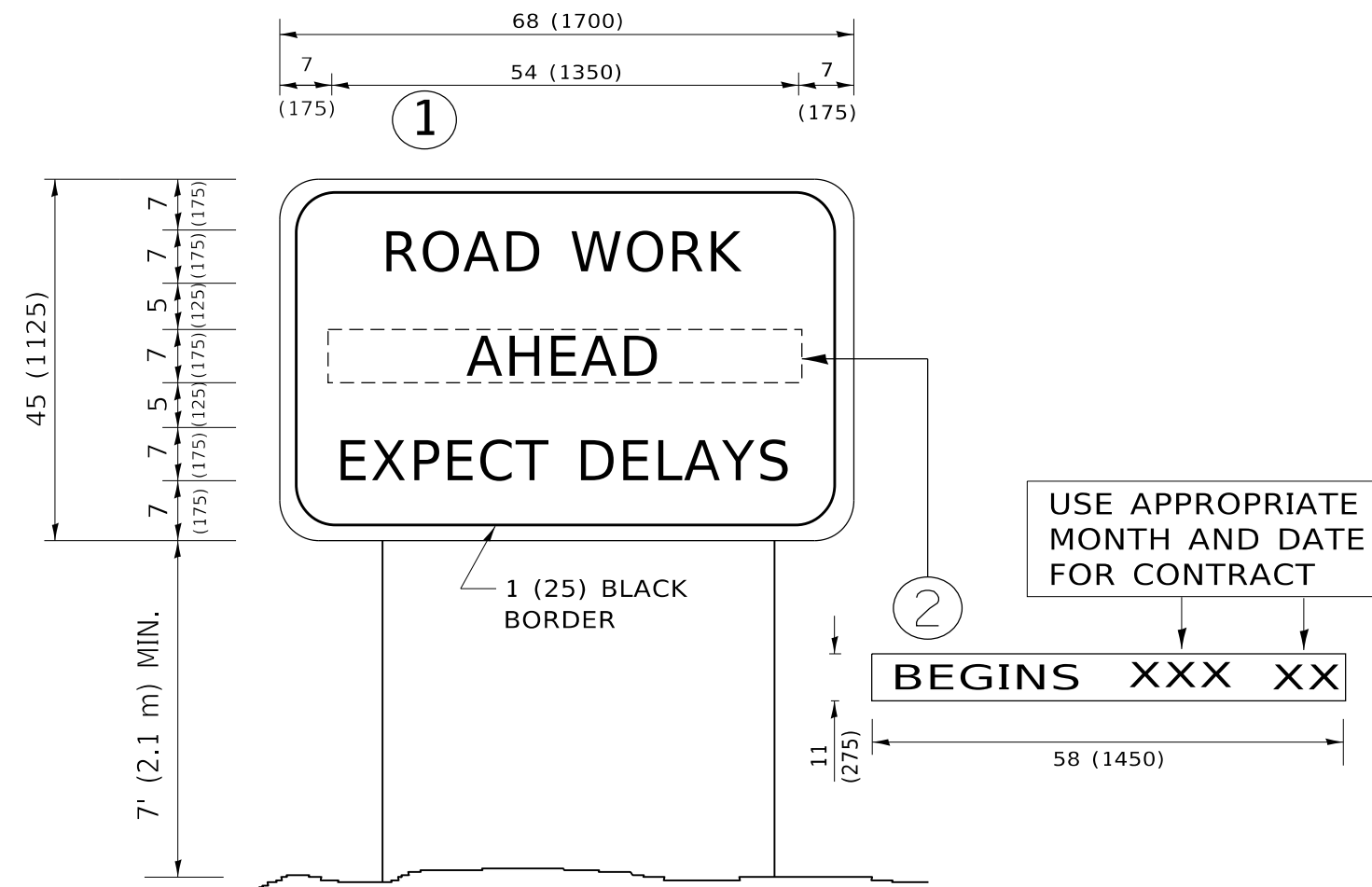
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PLOT DATE = 2/6/2020	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	33
<b>TC-17</b>		CONTRACT NO. 62J17		
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.

\*COOK, DUPAGE, MCHENRY

MODEL: Default  
 FILE: \\nashville-prod\pub\harcourt\mtda\illinois\pwr\DOT\Documents\DOT\_Offices\Dir\trc\_1\Project\116119\Cadd\Drawings\Design\DRS\4.dgn

USER NAME = Bilgramisa	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 2/6/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2019-039-T	*	34	34
<b>TC-22</b>			CONTRACT NO. 62J17	
ILLINOIS FED. AID PROJECT				