

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 333 / IL ROUTE 120 (WASHINGTON STREET)  
OVER DITCH (1.2 MILES EAST OF U.S. ROUTE 14)  
SECTION 2016-053B  
PROJECT NO.: NHPP-RD69(632)  
CULVERT REPLACEMENT  
MCHENRY COUNTY  
C-91-012-17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	1
		ILLINOIS	CONTRACT NO. 62D39	

D-91-012-17



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED  
IN UNINCORPORATED GREENWOOD TOWNSHIP

DESIGN DESIGNATION:  
OTHER PRINCIPAL ARTERIAL

TRAFFIC DATA:  
ADT (2015) = 3,000  
POSTED SPEED = 40 MPH  
DESIGN SPEED = 45 MPH



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: FAWAD AQUEEL, PE, PTOE  
(847) 705-4247

CONTRACT NO. 62D39



LOCATION MAP  
NOT TO SCALE

GROSS LENGTH = 200 FT. = 0.038 MILE  
NET LENGTH = 200 FT. = 0.038 MILE



DATE 03/13/19  
LICENSE EXPIRES ON 11/30/2019



DATE 5/13/19  
LICENSE EXPIRES ON 11/30/2020



ILLINOIS PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-003962-0014

8745 W. HIGGINS ROAD  
SUITE 300  
CHICAGO, IL 60631  
773-693-6030

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED MARCH 14 2019  
Anthony J. Danziger / OAB  
DEPUTY DIRECTOR OF HIGHWAYS REGIONAL ENGINEER

May 10 2019  
E.A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10 2019  
Paul J. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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- 1 COVER SHEETS
- 2 HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
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- 20-25 DISTRICT ONE DETAILS
- 26-27 CROSS SECTIONS

**HIGHWAY STANDARDS**

STANDARD NO	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIAMETER
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

**DISTRICT 1 STANDARDS**

STANDARD NO	DESCRIPTION
BD32	BUTT JOINT AND HMA TAPER DETAILS
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-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

**GENERAL NOTES**

1. 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 IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND GREENWOOD TOWNSHIP.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTED LONGITUDINAL WEDGE IS USED.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE PREFERENCE. ALL EXISTING PAVEMENT MARKING LINES AND REVISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
7. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY THE AREA TRAFFIC FIELD ENGINEER AT WALTER.CZARNY@ILLINOIS.GOV. A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCED OF BEGINNING WORK.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
12. MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT 1 DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
13. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEETS INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
14. A MINIMUM OF TWO WEEKS PRIOR TO ROUTE CLOSURE, THE CONTRACTOR SHALL CONTACT LIEUTENANT MATT HEDGES DIRECTOR, FIRE PREVENTION BUREAU WITH THE WOODSTOCK FIRE RESCUE DISTRICT AT (815)338-2621, PREVENTION@WFRD.ORG.
15. A MINIMUM OF TWO WEEKS PRIOR TO ROUTE CLOSURE, THE CONTRACTOR SHALL CONTACT RICHARD WILLMAN, PE, TRANSPORTATION ENGINEER WITH PACE AT (847)228-3584, RICHARD.WILLMAN@PACEBUS.COM.
16. 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.

**COMMITMENTS**

NO COMMITMENTS FOR THIS PROJECT.

	USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 120 OVER DRAINAGE DITCH</b> <b>HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - GJ	REVISED -			333	2016-053B	MCHENRY	27	2
	PLOT DATE = 4/22/2019	CHECKED - CP	REVISED -			CONTRACT NO. 62D39				
	DATE - 01/14/19	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				CONSTR. CODE	CONSTR. CODE
				80% FEDERAL/20% STATE	
				ROADWAY	BOX CULVERT
				0004	0004
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62	62	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16	16	
20101700	SUPPLEMENTAL WATERING	UNIT	1	1	
20200100	EARTH EXCAVATION	CU YD	249	249	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	75	75	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	70	70	
20800150	TRENCH BACKFILL	CU YD	42	42	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	581	581	
25000312	SEEDING, CLASS4A	ACRE	0.12	0.12	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	581	581	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	24	24	
28000305	TEMPORARY DITCH CHECKS	FOOT	480	480	
28000400	PERIMETER EROSION BARRIER	FOOT	630	630	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	2	2	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	60	60	

\* SPECIALTY ITEMS

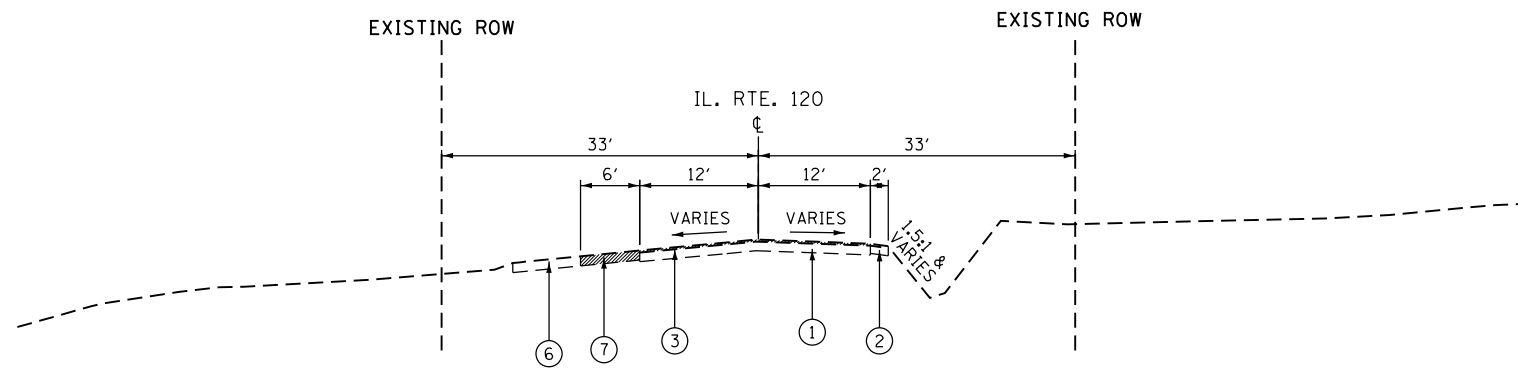
<b>wood.</b>	USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 120 OVER DRAINAGE DITCH SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GJ	REVISED -					333	2016-053B	MCHENRY	27	3
	PLOT SCALE = 40.0000' / in.	CHECKED - CP	REVISED -					CONTRACT NO. 62039				
	PLOT DATE = 3/22/2019	DATE - 01/14/19	REVISED -					SCALE:	SHEET	OF	SHEETS	STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				CONSTR. CODE	CONSTR. CODE
				80% FEDERAL/20% STATE	
				ROADWAY	BOX CULVERT
				0004	0004
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	46	46	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,213	1213	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	99.7	99.7	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	84.3	84.3	
44000100	PAVEMENT REMOVAL	SQ YD	60	60	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	470	470	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	55	55	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	32	32	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	37		37
51500100	NAME PLATES	EACH	1		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,034		1034
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2
54010804	PRECAST CONCRETE BOX CULVERTS 8' X 4'	FOOT	42		42

\* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				CONSTR. CODE	CONSTR. CODE
				80% FEDERAL/20% STATE	
				ROADWAY	BOX CULVERT
				0004	0004
542A2755	PIPE CULVERTS, CLASS A, TYPE 4 30"	FOOT	50	50	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	63		63
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	249	249	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	DAYS	2	2	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	450	450	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	5	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X0900064	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	63		63
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

\* SPECIALTY ITEMS

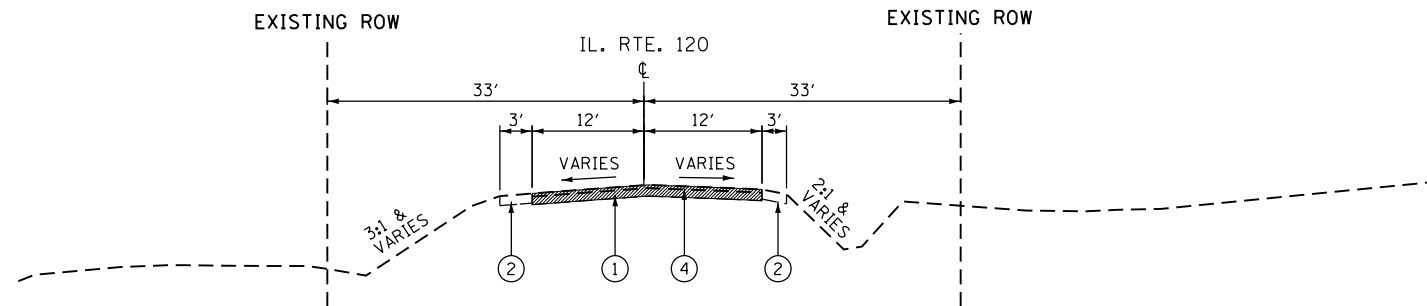


**IL 120 EXISTING TYPICAL SECTION**

STA. 49+00.00 TO STA. 49+91.19

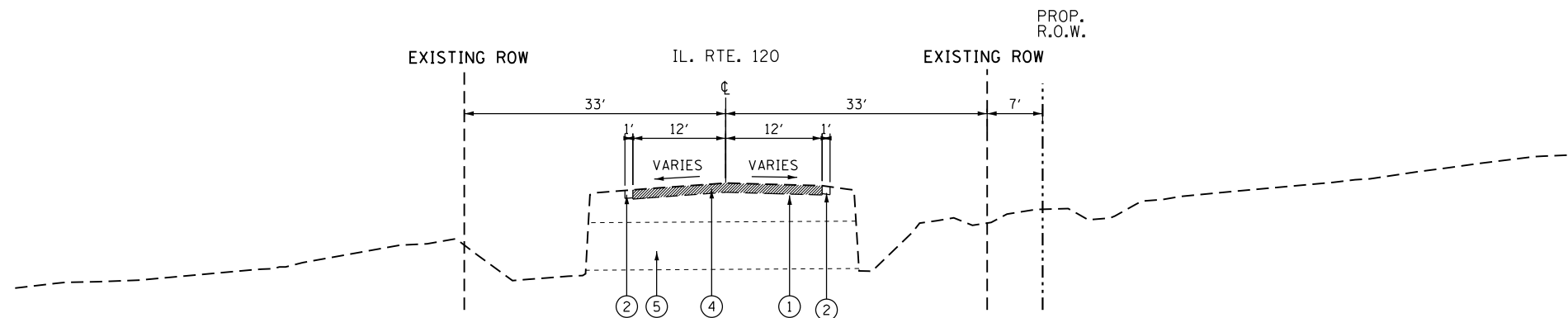
**LEGEND:**

- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 7"
- ② EXISTING AGGREGATE SHOULDER
- ③ HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ④ EXISTING PAVEMENT REMOVAL
- ⑤ EXISTING 6'X3' CONCRETE ARCH CULVERT (SN: 056-0201) TO BE REMOVED
- ⑥ EXISTING DRIVEWAY
- ⑦ DRIVEWAY REMOVAL



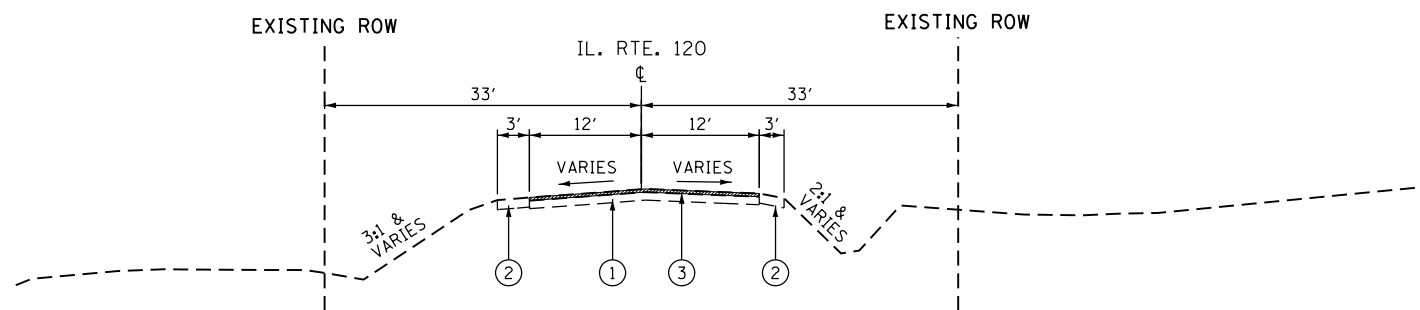
**IL 120 EXISTING TYPICAL SECTION**

STA. 49+91.19 TO STA. 49+98.38  
STA. 50+04.38 TO STA. 50+13.65



**IL 120 EXISTING TYPICAL SECTION (AT EXISTING CULVERT)**

STA. 49+98.38 TO STA. 50+04.38



**IL 120 EXISTING TYPICAL SECTION**

STA. 50+13.65 TO STA. 51+00.00



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PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

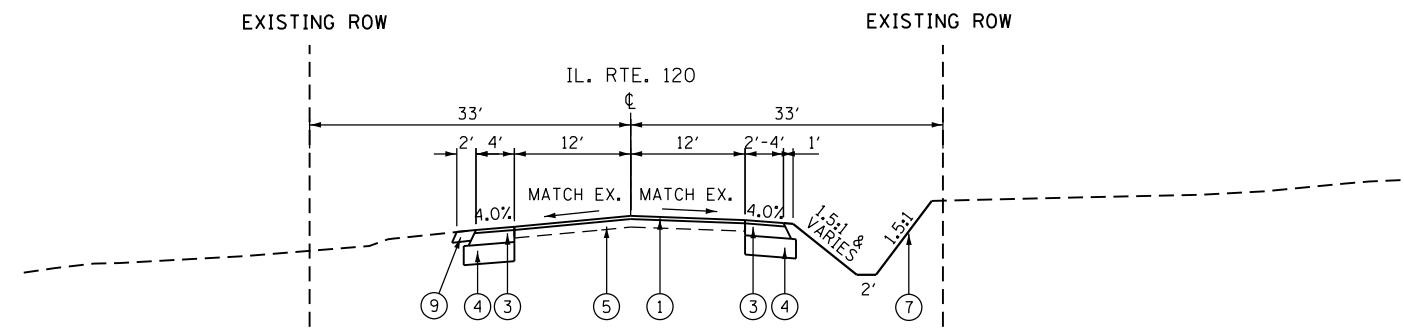
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
EXISTING TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

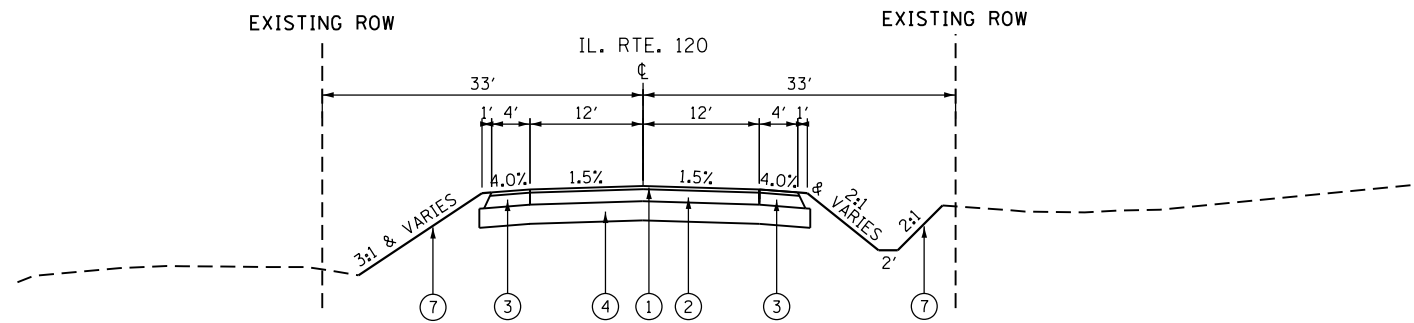
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	6
				CONTRACT NO. 62D39

ILLINOIS FED. AID PROJECT



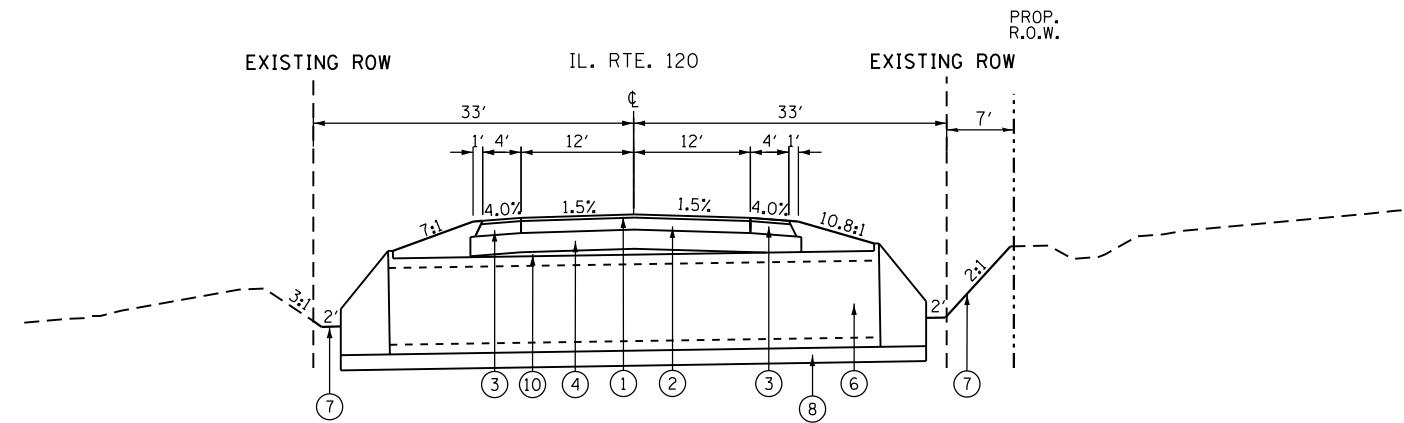
**IL 120 PROPOSED TYPICAL SECTION (RESURFACING)**

STA. 49+00.00 TO STA. 49+91.19



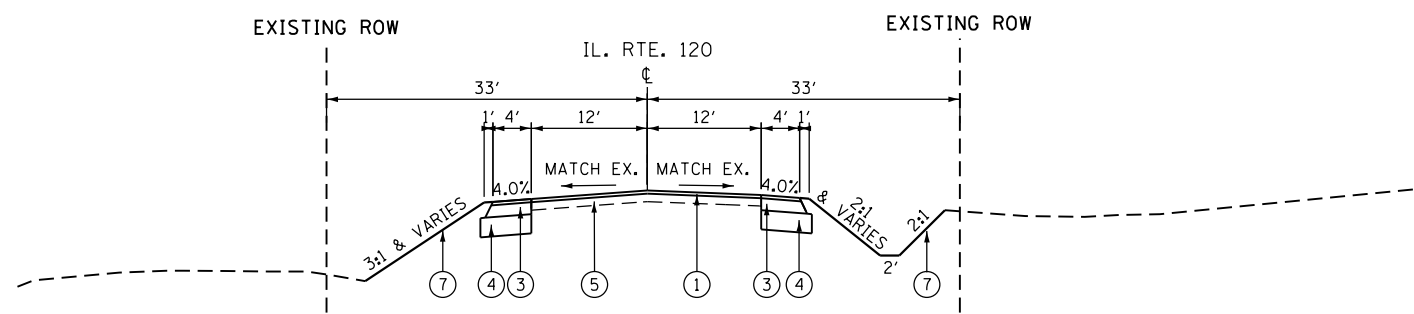
**IL 120 PROPOSED TYPICAL SECTION (RECONSTRUCTION)**

STA. 49+91.19 TO STA. 49+97.87  
STA. 50+06.96 TO STA. 50+13.65



**IL 120 PROPOSED TYPICAL SECTION (AT PROPOSED CULVERT)**

STA. 49+97.87 TO STA. 50+06.96



**IL 120 PROPOSED TYPICAL SECTION (RESURFACING)**

STA. 50+13.65 TO STA. 51+00.00

**LEGEND:**

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7 1/2"
- ③ HOT-MIX ASPHALT SHOULDERS:  
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7 1/2"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED 8'X4' REINFORCED CONCRETE BOX CULVERT (SN: 056-0330)
- ⑦ SEEDING WITH TOPSOIL FURNISH AND PLACE, 4"
- ⑧ 6" POROUS GRANULAR MATERIAL
- ⑨ HMA DRIVEWAY, 8"
- ⑩ AGGREGATE SUBGRADE IMPROVEMENT

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOID @NDICES	QUALITY MANAGEMENT PROGRAM (QMP)
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5 MM); 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 7 1/2"	4% @ 50 GYR	QC/OA
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5 MM); 2"	4% @ 50 GYR	QC/OA
<b>SHOULDERS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5 MM); 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 7 1/2"	4% @ 50 GYR	QC/OA
<b>HOT-MIX ASPHALT DRIVEWAY</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5 MM); 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 MM); 6"	4% @ 50 GYR	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQ YD/IN. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



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REVISED -  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	7
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

**TREE REMOVAL SCHEDULE**

TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
LOCATION		DIA (IN.)	UNIT
STA	LT/RT		
49+37.35	RT	6	6
49+42.61	RT	12	12
50+42.27	RT	8	8
50+75.94	RT	12	12
50+81.32	RT	12	12
50+81.25	RT	12	12
TOTAL			62

TREE REMOVAL (OVER 15 UNITS DIAMETER)			
LOCATION		DIA (IN.)	UNIT
STA	LT/RT		
49+28.09	RT	16	16
TOTAL			16

**EARTHWORK AND TOPSOIL SCHEDULE**

LOCATION			EARTH EXCAVATION (CU YD)	15% ADJUSTMENT FOR SHRINKAGE (CU YD)	FILL EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)
STATION	TO	STATION					
49+00.00	TO	49+50.00	35	30	10	20	12
49+50.00	TO	49+70.44	19	16	3	14	3
49+70.44	TO	49+91.19	21	18	17	1	7
49+91.19	TO	50+00.00	27	23	8	15	6
50+00.00	TO	50+01.40	7	6	0	6	1
50+01.40	TO	50+13.65	44	37	7	30	6
50+13.65	TO	50+50.00	57	48	27	22	19
50+50.00	TO	51+00.00	40	34	21	13	21
TOTAL			249	212	91	120	75

**PAVEMENT/DRIVEWAY PAVEMENT REMOVAL SCHEDULE**

LOCATION				PAVEMENT REMOVAL (SQ YD)	HOT-MIX ASPHALT SURFACE REMOVAL, 2" (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)
STATION	TO	STATION	LT/RT			
49+91.19		50+13.65		60		
49+00.00		49+91.19			242	
50+13.65		51+00.00			228	
49+00.00		49+76.38	LT			55
TOTAL				60	470	55

**PAVEMENT SCHEDULE**

LOCATION				AGGREGATE SUBGRADE IMPROVEMENT (CU YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	HOT-MIX ASPHALT BASE COURSE, 6" (SQ YD)	BITUMINOUS MATERIAL (TACK COAT) (POUND)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (TON)
STATION	TO	STATION	LT/RT						
MAINLINE									
49+00.00		49+91.19					417		27.2
49+91.19		50+13.65		2	60		103	25.6	6.7
50+13.65		51+00.00					395		25.8
SHOULDER									
49+00.00		51+00.00	LT				153	38.0	10.0
49+00.00		51+00.00	RT				145	36.1	9.5
DRIVEWAY									
49+00.00		49+76.38	LT			16	27		1.8
49+63.74			RT			30	51		3.3
TOTAL				2	60	46	1291	99.7	84.3



USER NAME = gustavo.pallares  
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DESIGNED - PK  
 DRAWN - GJ  
 CHECKED - CP  
 DATE - 01/14/19

REVISED -  
 REVISED -  
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 REVISED -

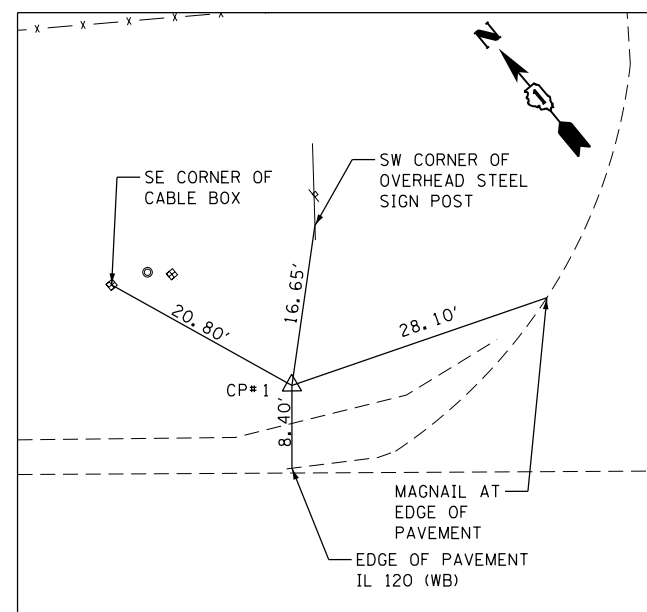
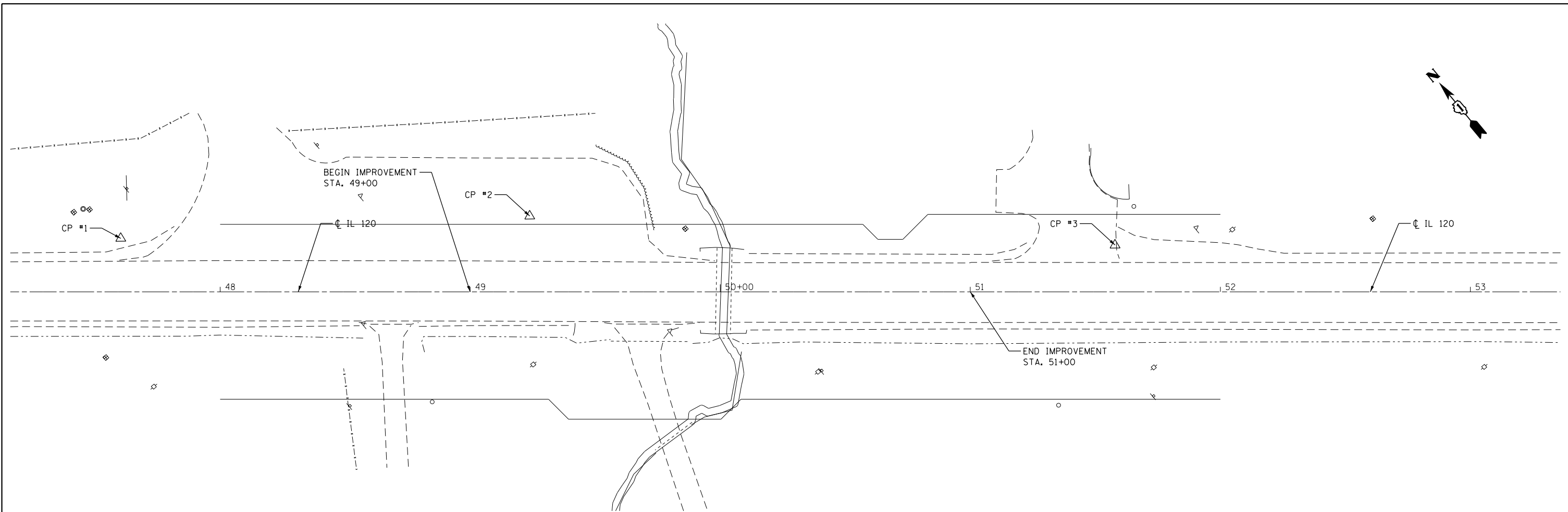
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
 SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

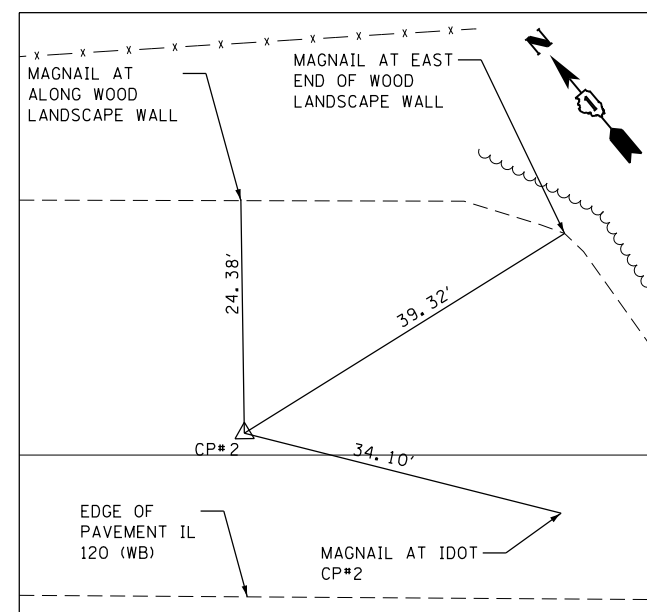
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333	2016-053B	MCHENRY	27	8
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				





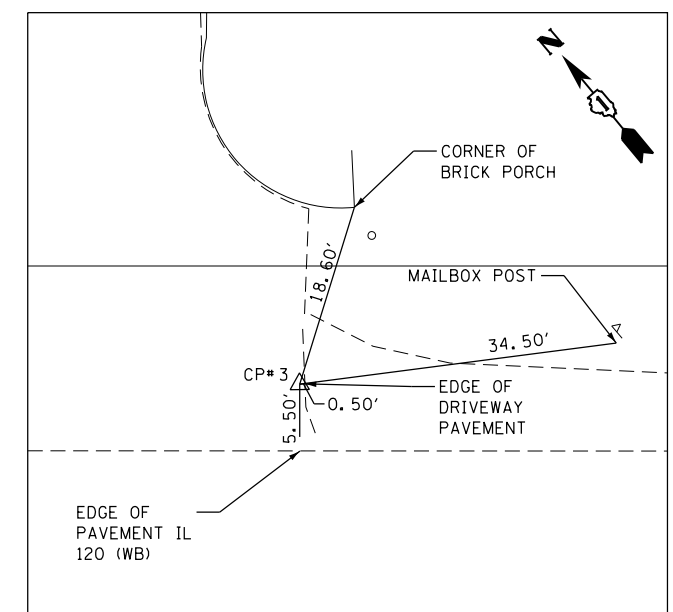
**TIE POINTS CP #1**

CAPPED IR  
 NORTHING: 2063029.510  
 EASTING: 947355.680



**TIE POINTS CP #2**

MAGNAIL IN PAVEMENT  
 NORTHING: 2062931.660  
 EASTING: 947487.040



**TIE POINTS CP #3**

MAGNAIL AT EAST EDGE OF DRIVEWAY PAVEMENT  
 NORTHING: 2062772.880  
 EASTING: 947659.430



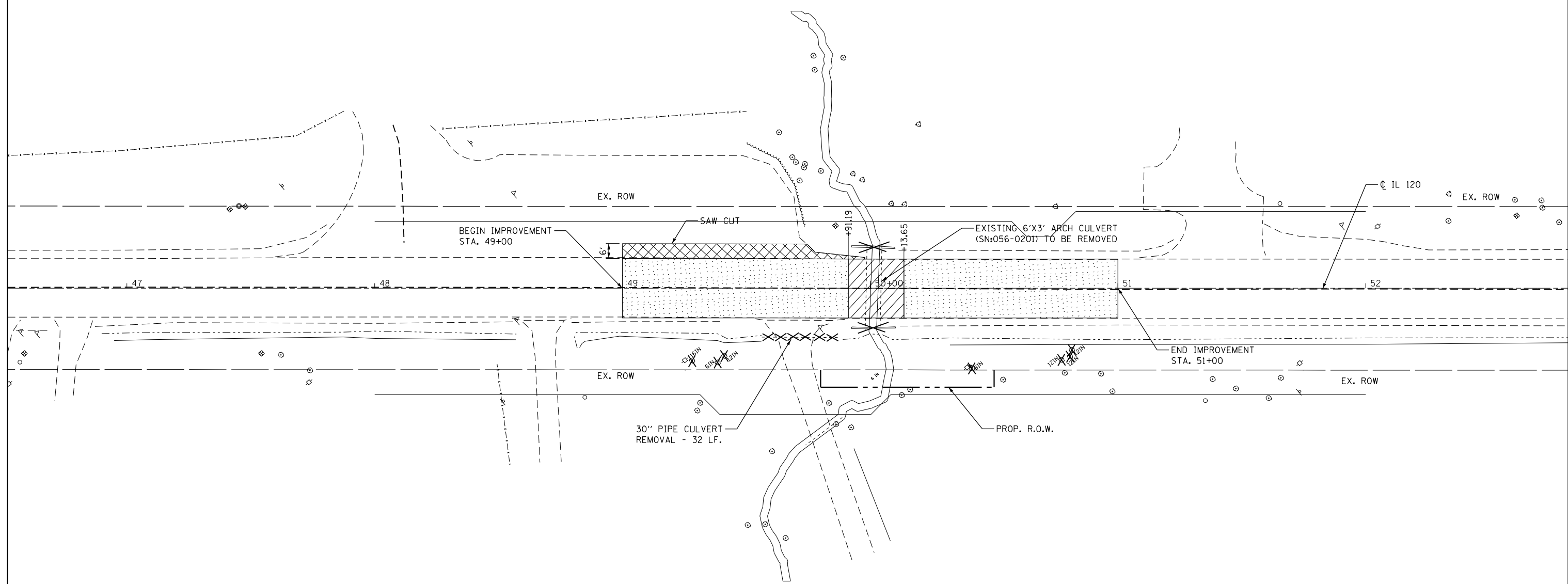
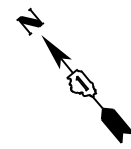
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PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION





IL 120 OVER DRAINAGE DITCH  
 ALIGNMENT AND TIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	9
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

-  HMA SURFACE REMOVAL
-  DRIVEWAY REMOVAL
-  PAVEMENT REMOVAL
-  TREE REMOVAL



USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

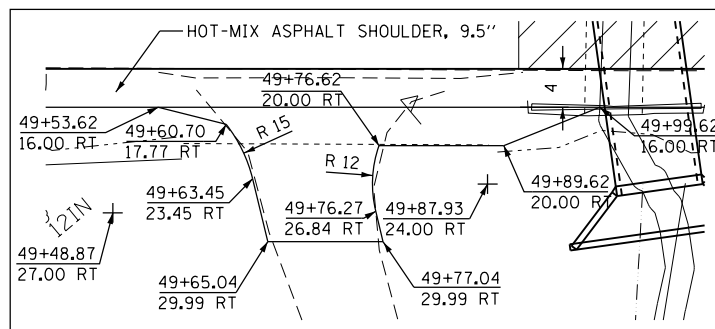
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EXISTING AND REMOVAL PLAN**

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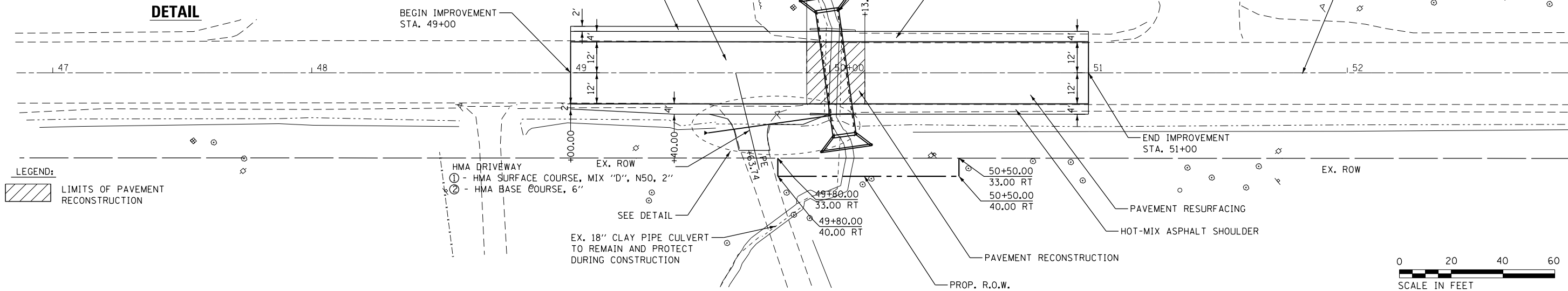
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333	2016-053B	MCHENRY	27	10
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

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

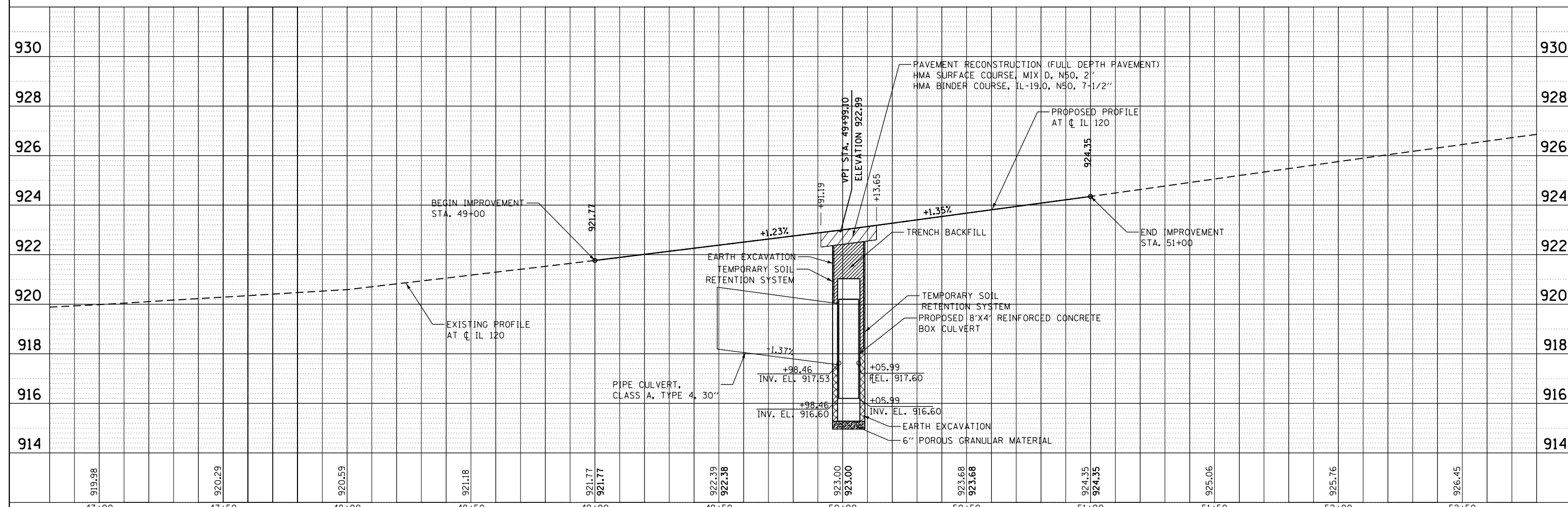
DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
NO.	
STRUCTURE	
NOT AT THIS OFFICE	



**DETAIL**



**LEGEND:**  
 LIMITS OF PAVEMENT RECONSTRUCTION



47+00	47+50	48+00	48+50	49+00	49+50	50+00	50+50	51+00	51+50	52+00	52+50
919.98	920.29	920.59	921.18	921.77	922.39	923.00	923.68	924.35	925.06	925.76	926.45



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PLOT SCALE = 48.0000' / in.	CHECKED - CP	REVISED -
PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

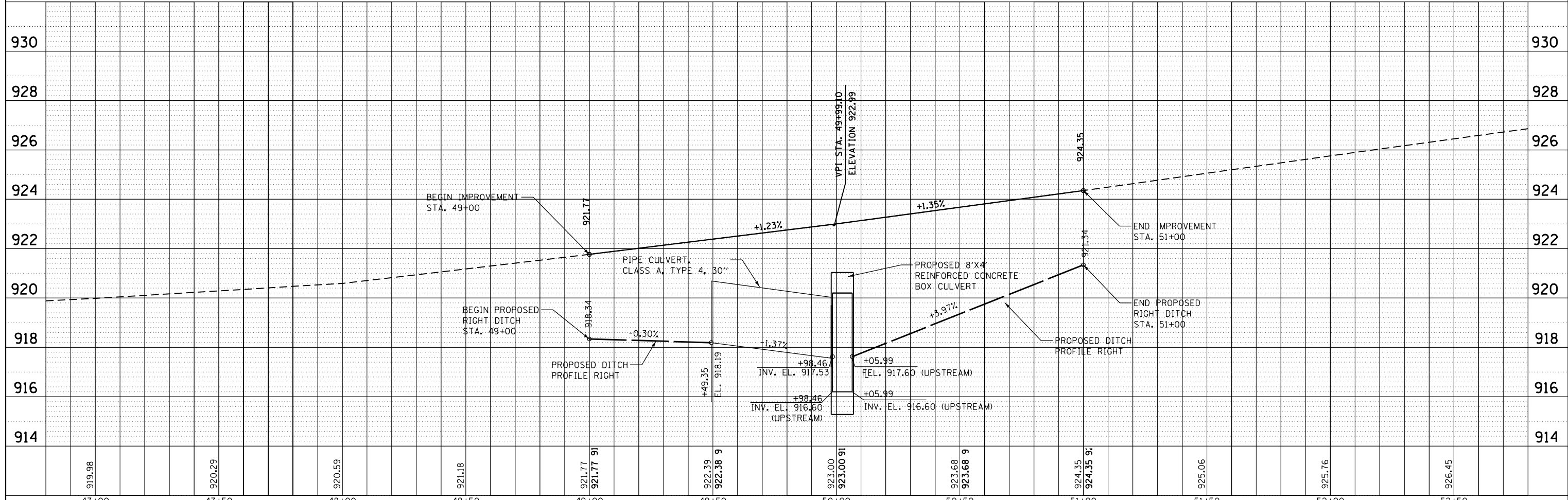
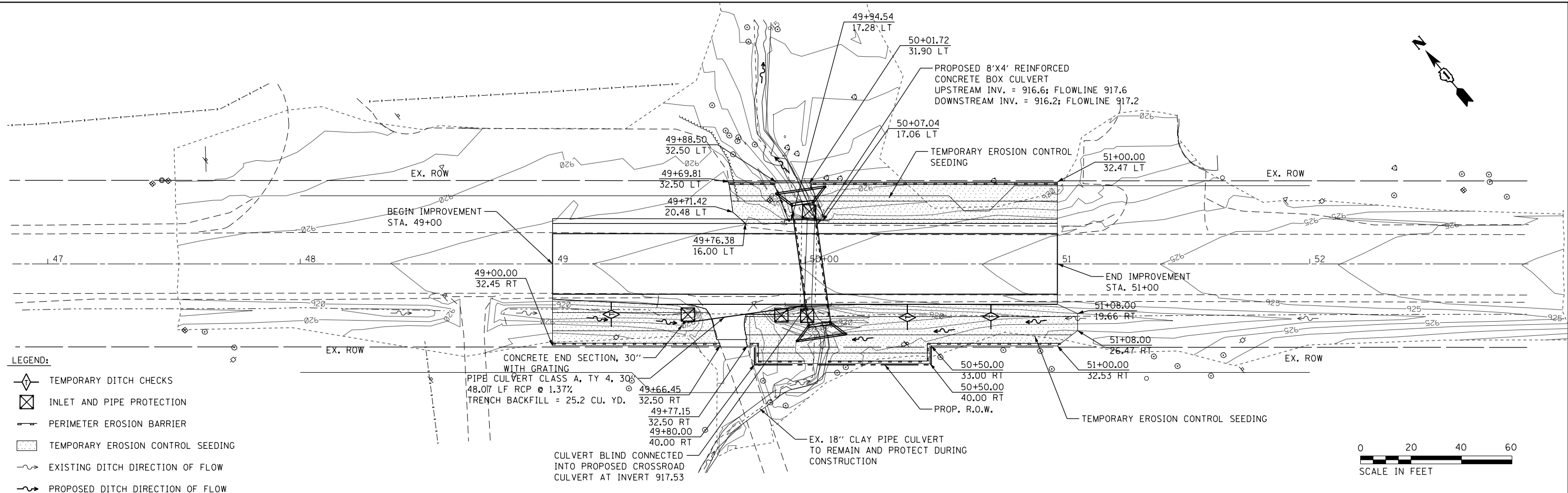
**IL 120 OVER DRAINAGE DITCH  
ROADWAY PLAN AND PROFILE**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	11
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	



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	DATE - 01/14/19	REVISED -

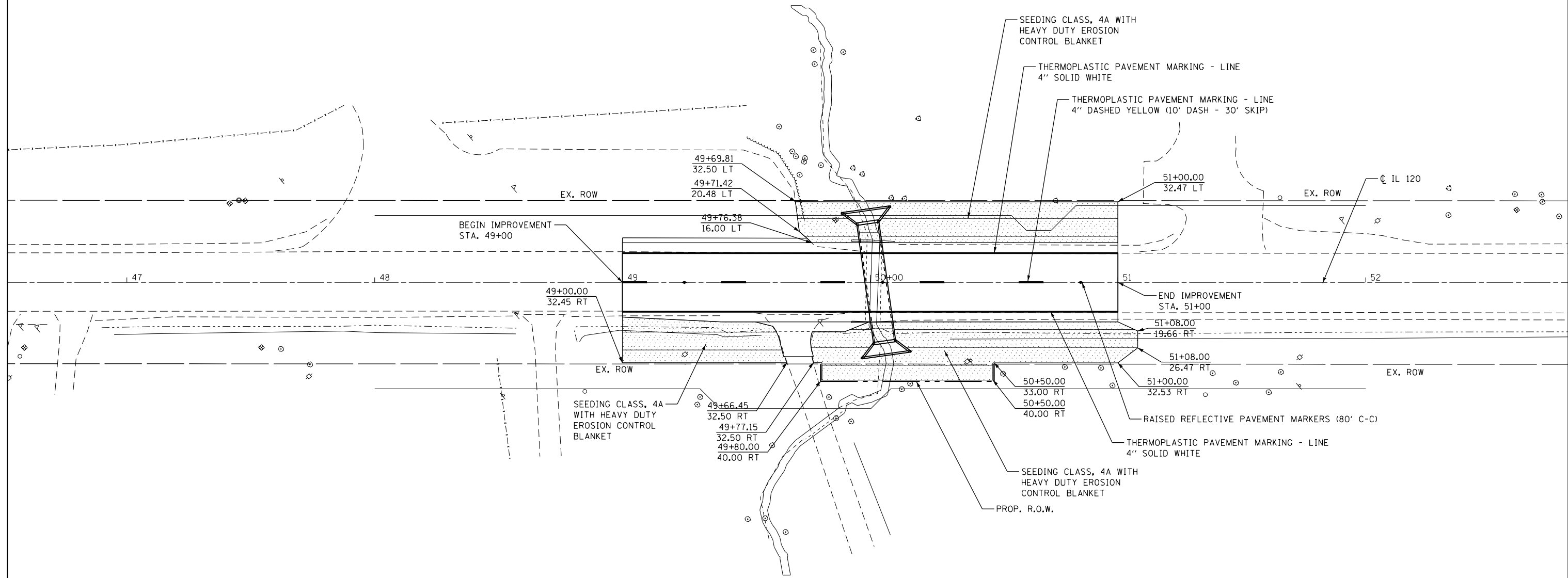
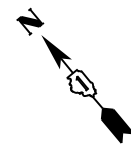
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER DRAINAGE DITCH  
EROSION CONTROL AND DRAINAGE PLAN AND PROFILE**

SCALE: 1"=20'    SHEET    OF    SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	12
CONTRACT NO. 62D39				

ILLINOIS FED. AID PROJECT



NOTE:  
 PERMANENT SEEDING AND HEAVY DUTY EROSION CONTROL BLANKET SHALL BE PLACED IMMEDIATELY FOLLOWING CONSTRUCTION OF CULVERT.

LEGEND:

SEEDING CLASS, 4A WITH HEAVY DUTY EROSION CONTROL BLANKET



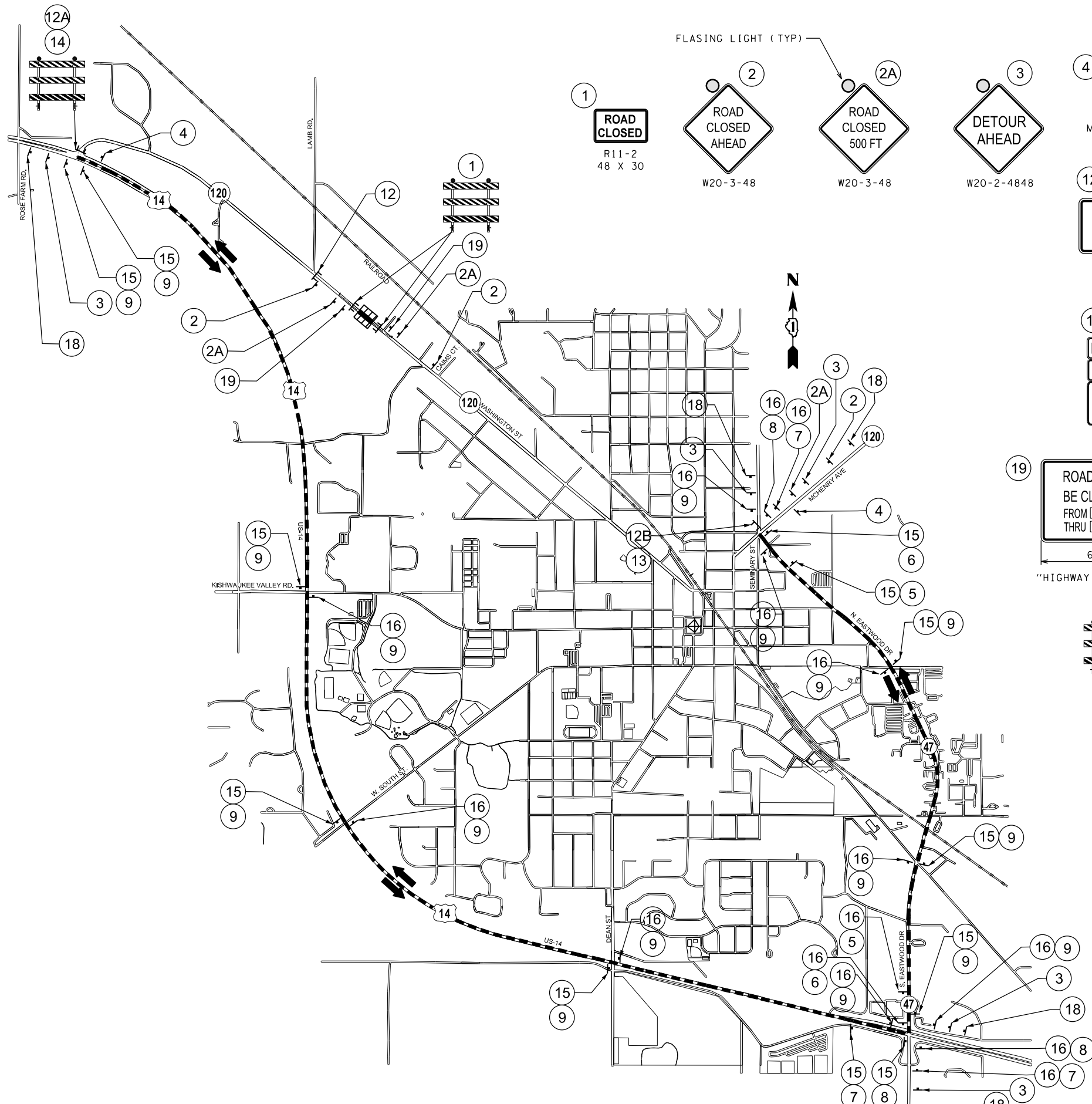
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
 PAVEMENT MARKING AND LANDSCAPING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333		MCHENRY	27	13
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				



FLASING LIGHT ( TYP )

1 ROAD CLOSED R11-2 48 X 30

2 ROAD CLOSED AHEAD W20-3-48

2A ROAD CLOSED 500 FT W20-3-48

3 DETOUR AHEAD W20-2-4848

4 END DETOUR M4-8g-2418

5 M5-1R-2115

6 M6-1-2115

7 M5-1L-2115

8 M6-1-2115

9 M6-3-2115

12 ROAD CLOSED TO THRU TRAFFIC R11-4-6030

12A ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3A-6030

12B ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3A-6030

13 M4-10L-4818

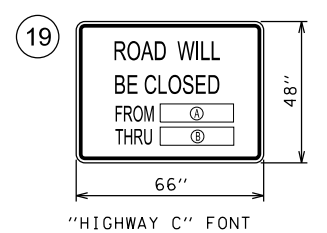
14 M4-10R-4818

15 DETOUR EAST M4-8-2412 M3-2-2412 M1-1100-2424

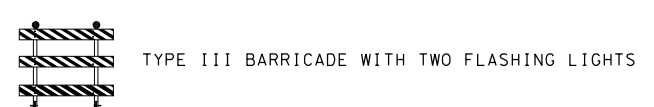
16 DETOUR WEST M4-8-2412 M3-2-2412 M1-1100-2424

18 IL 120 CLOSED AT LAMB RD FOLLOW DETOUR

SPECIAL - MIN 6" UPPERCASE BLACK LETTERS ON ORANGE REFLECTION BACKGROUND



- NOTES:
- OVERLAY PANEL (A) TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.
  - OVERLAY PANEL (B) TO CONTAIN ENDING MONTH OF FULL CLOSURE & DETOUR. OMIT THE DATE ON PANEL (B); MONTH ONLY.
  - ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANEL (A) AND (B) IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OF WITHIN SECTION TO BE FULLY CLOSED.
  - THIS SIGN SHALL BE PLACED TWO (2) WEEKS PRIOR TO CLOSURE DATE.



- LEGEND:
- DETOUR ROUTE
  - 1 TYPE III BARRICADE WITH TWO FLASHING LIGHTS
  - CONSTRUCTION ZONE
  - TRAFFIC FLOW DIRECTION

- NOTES:
- PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH TC-21 (DETOUR SIGNING FOR CLOSING STATE HIGHWAYS).
  - THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND ALL SIGNS, INCLUDING SIGN PANEL OVERLAYS, SHALL BE INCLUDING IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
  - ACCESS TO ALL PRIVATE ENTRANCES SHALL BE MAINTAINED.
  - DETOUR SIGN INSTALLATION CONTRACTOR SHALL CALL JULIE FOR UTILITY LOCATES. CONTACT JULIE AT (800) 892-0123.



USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -
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PLOT DATE = 4/26/2019	DATE - 01/14/19	REVISED -

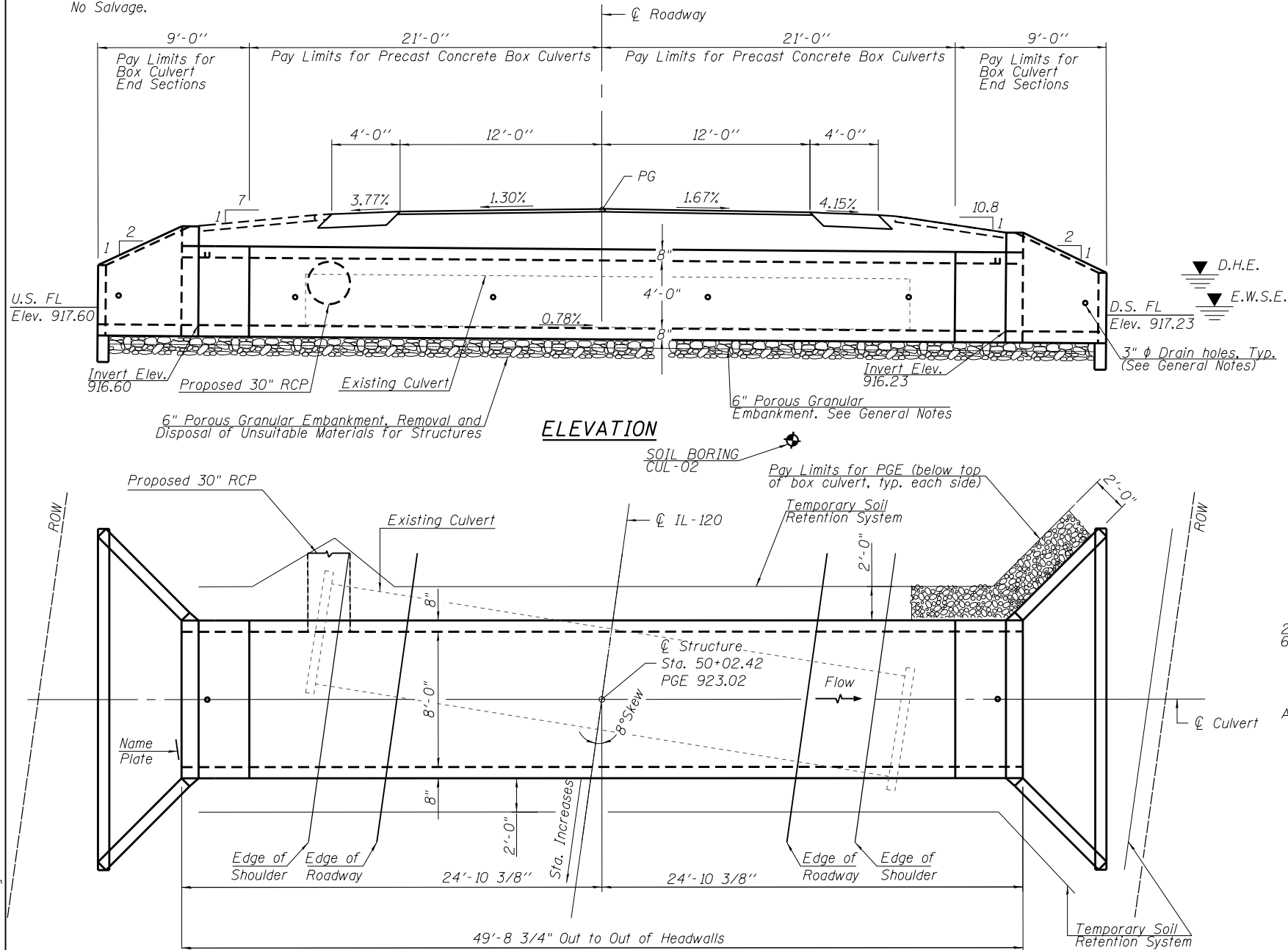
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
DETOUR PLAN

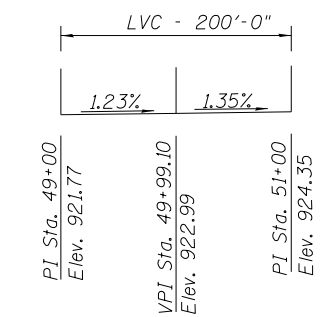
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	14
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

Benchmark:  
 BM 1: Spike with yellow sleeve in power pole on the southside of IL 120  
 175' east of the 3' x 6' arch culvert. Elev. = 926.58  
 Existing Structure: SN 056-0201 3'H X 6'W Concrete Arch Culvert  
 The existing structure will be completely removed and replaced.  
 Traffic to be detoured during construction.  
 No Salvage.



**PROFILE GRADE IL-120**



**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition with 2013 Interims

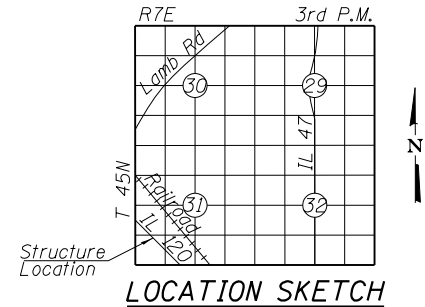
**LOADING HL-93**

Allow 50 #/sq ft for Future Wearing Surface.

**DESIGN STRESSES**

**PRECAST UNITS**

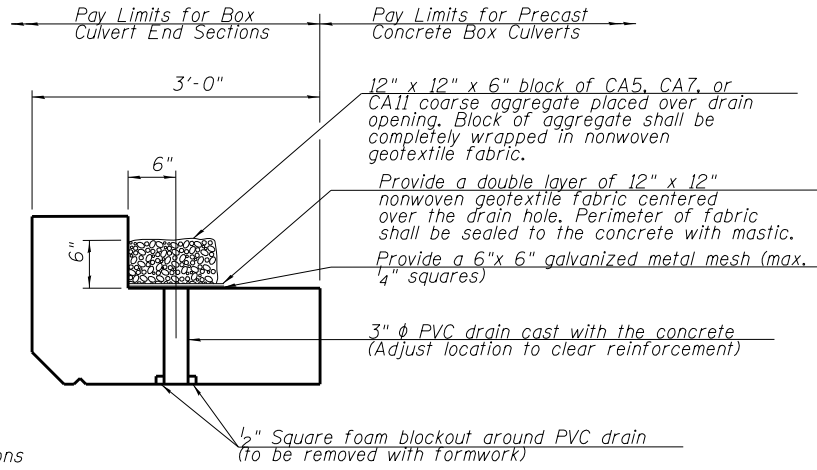
f'c = 5,000 psi  
 fy = 65,000 psi (Welded Wire Reinforcement)



**LOCATION SKETCH**

**GENERAL NOTES**

The design fill height for this box is 2 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 The 6 in. thick layer of porous granular material required for precast concrete box culverts, per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.  
 Loose granular soils encountered at the base of the culvert should be replaced with compacted aggregate conforming to IDOT specifications extending a minimum of 2 ft beyond each side of the culvert and to a depth of 12".  
 Any additional soft loam or poor soils encountered during construction should be replaced with compacted aggregate conforming to IDOT specifications extending a minimum of 2 ft beyond each side of the culvert. Undercut limits may be modified as encountered in the field. This work shall be paid for as Removal and Disposal of Unsuitable Materials for Structures and Porous Granular Embankment. If the depth of poor soils is greater than 2', contact the Geotechnical Engineer.  
 Temporary dewatering of the excavations will be required. Any water that accumulates in open excavations by seepage or runoff should be immediately removed according to Article 540.04 of the Standard Specifications.



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	70
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	37
Cofferdam (Type 1) (In-stream/Wetland Work)	Each	1
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	1034
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 8 x 4	Foot	42
Geocomposite Wall Drain	Sq. Yd.	63
Membrane Waterproofing System for Buried Structures	Sq. Yd.	63

**GENERAL PLAN AND ELEVATION  
 IL RTE. 120 OVER DITCH  
 F.A.P. RTE. 333 SEC. 2016-053B  
 MCHENRY COUNTY  
 STATION 49+97.58  
 S.N. 056 - 0330**



DATE: 4/22/19  
 LICENSE EXPIRES ON 11/30/2020

**INDEX OF SHEETS**

- General Plan and Elevation
- 3. Precast Concrete Box Culvert Apron End Section Details
- Temporary Soil Retention System and Miscellaneous Details
- Soil Boring Logs

STATION 49+97.58  
 BUILT BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 333 SEC. 2016-053B  
 LOADING HL-93  
 STR. NO. 056-0330

**NAME PLATE**  
 See Std. 515001

**WATERWAY INFORMATION**

Drainage Area = 0.08922 mi<sup>2</sup>    Exist. Low Grade Elev. 920.0\*    Sta. 47+00\*  
 Prop. Low Grade Elev. 920.0\*    Sta. 47+00\*

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	2	16.6							
	10	27.6	7.0	9.6	918.8	0.5	0.2	919.3	919.0
Design	50	61.0	10.1	14.4	919.8	0.6	0.2	920.0	919.6
Base	100	82.3	10.9	16.0	919.6	0.6	0.4	920.2	920.0
Overtop Exist	< 50	47.5	8.6	N/A	919.1	0.7	N/A	919.8	N/A
Overtop Prop	> 50	65.5	N/A	14.4	919.4	N/A	0.4	N/A	919.8
Max. Calc.	100	82.3	10.9	16.0	919.6	0.6	0.4	920.2	920.0

\* Actual overtopping occurs approximately 314 ft northwest of the culvert (Station 46+86) where a private entrance meets Illinois Route 120's edge of shoulder at elevation 919.8

**wood.**

USER NAME =	DESIGNED - BJD	REVISIONS -
PLOT SCALE =	CHECKED - MGH	REVISIONS -
PLOT DATE =	DRAWN - BJD	REVISIONS -
	CHECKED - WPM	REVISIONS -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 056-0330**

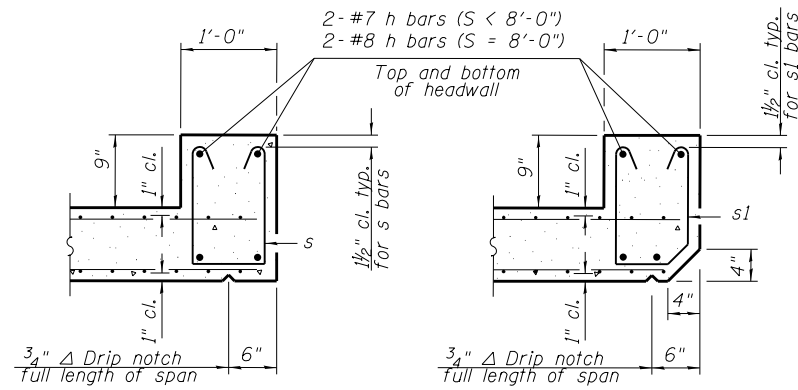
SHEET 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	15

CONTRACT NO. 62D39  
 ILLINOIS FED. AID PROJECT

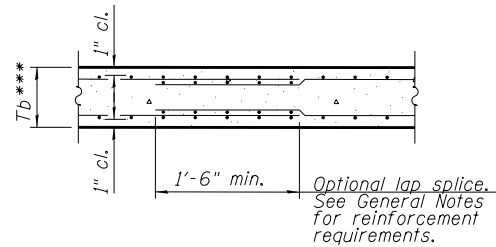






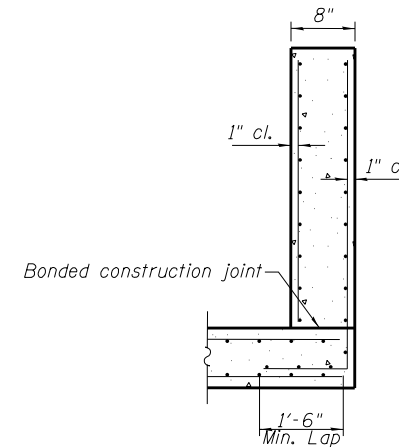
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

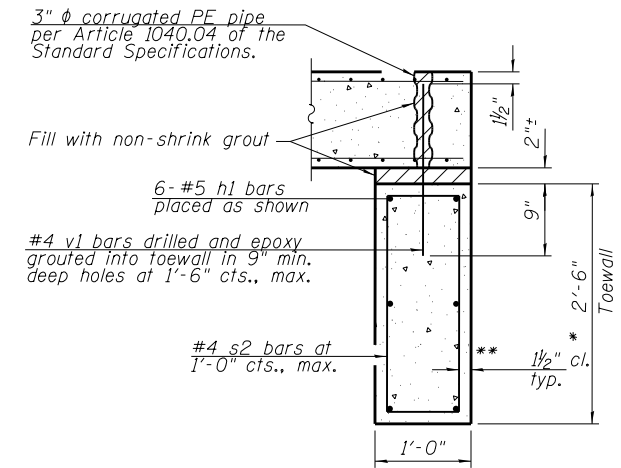


**SECTION B-B**  
(Bottom Slab)

\*\*\*This dimension shall be increased by 2" for CIP construction.



**SECTION C-C**



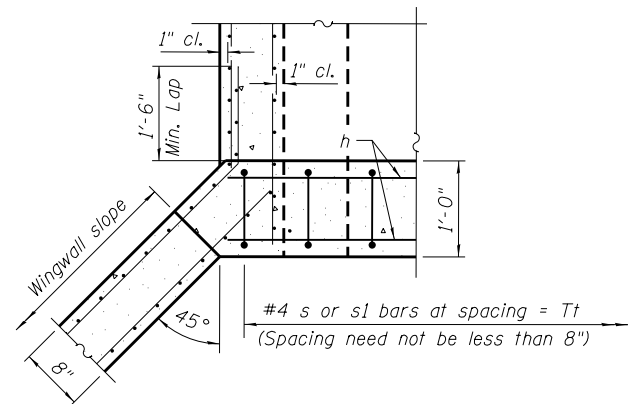
**SECTION D-D**

**TOEWALL CONSTRUCTION SEQUENCE**

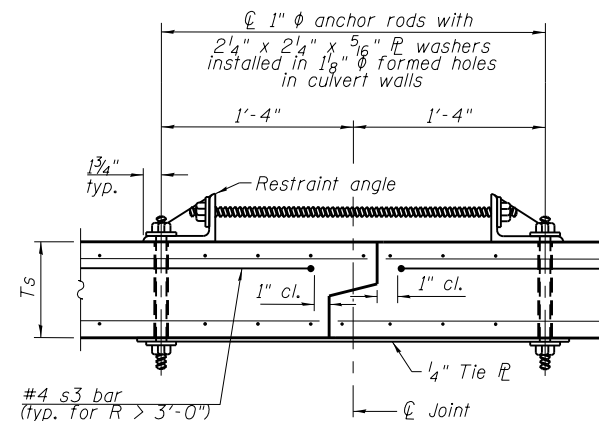
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



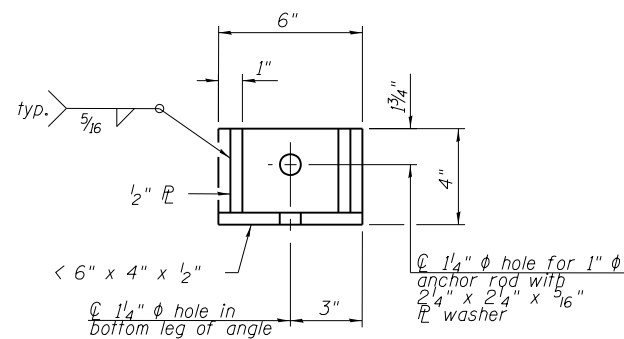
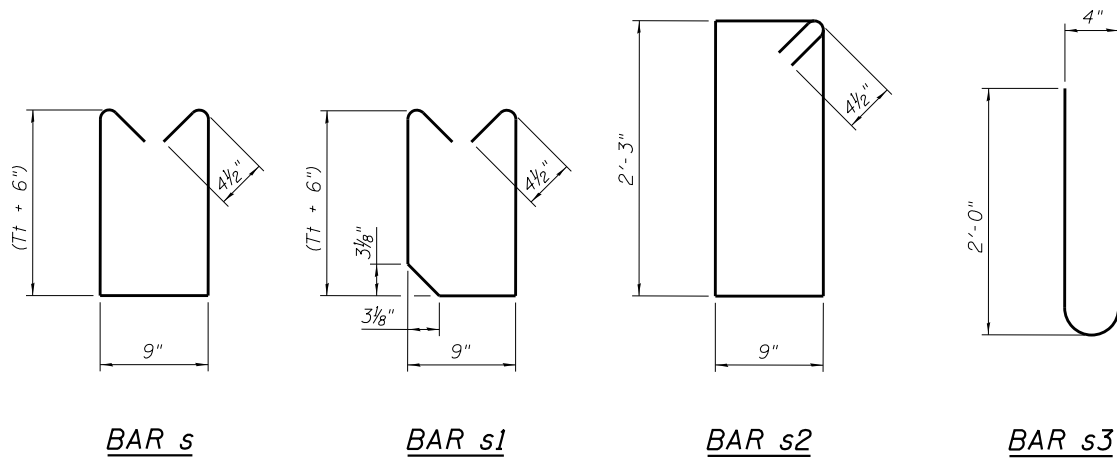
**SECTION E-E**



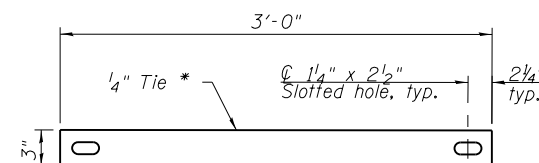
**SECTION F-F**  
(Showing culvert tie details)

Notes:

1" φ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

(Sheet 2 of 2)

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3/8/2019 9:06:21 AM

SCB-AES

2-17-2017

**wood.**

USER NAME =	DESIGNED - BJD	REVISD -
PLOT SCALE =	CHECKED - MGH	REVISD -
PLOT DATE =	DRAWN - BJD	REVISD -
	CHECKED - WPM	REVISD -

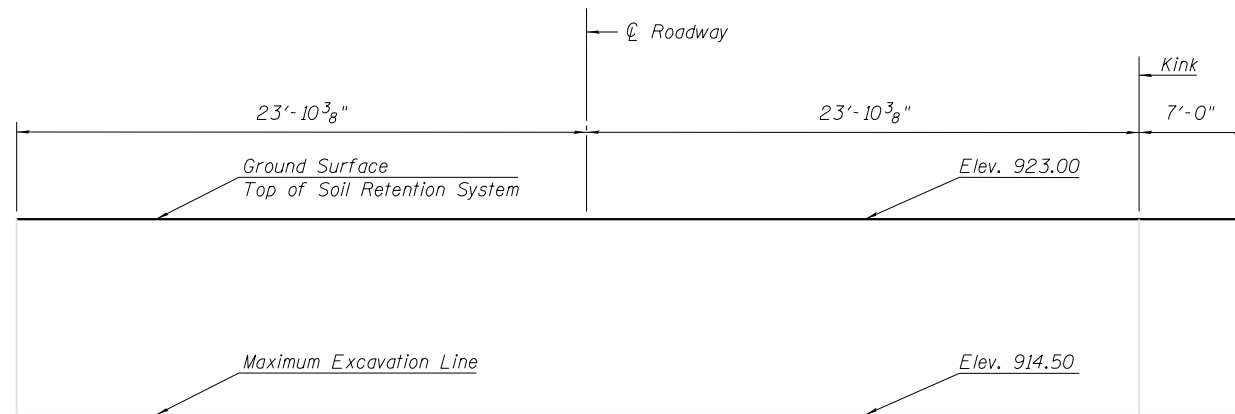
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - STRUCTURE NO. 056-0330

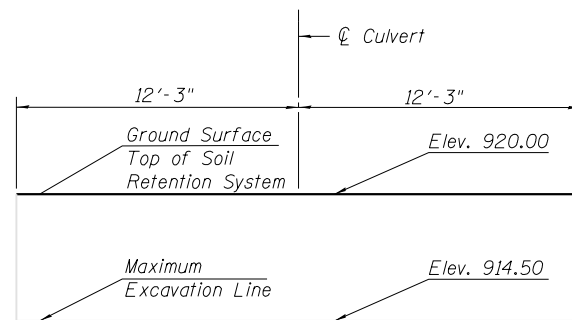
SHEET 3 OF 5 SHEETS

F.A.P. RTE. 333	SECTION 2016-053B	COUNTY MCHENRY	TOTAL SHEETS 27	SHEET NO. 17
CONTRACT NO. 62D39				

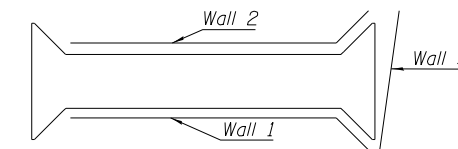
ILLINOIS FED. AID PROJECT



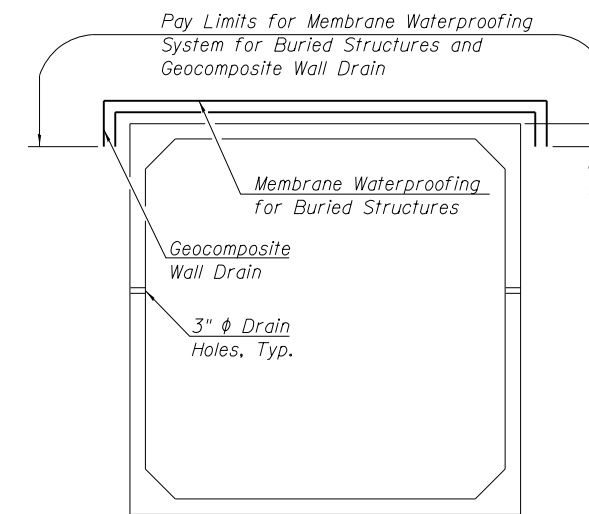
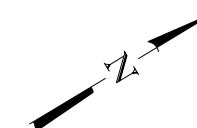
ELEVATION  
WALL 1  
(Wall 2 West side of culvert)



ELEVATION  
WALL 3



KEY PLAN



MEMBRANE WATERPROOFING SYSTEM  
AND GEOCOMPOSITE WALL DRAIN

Note:  
Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

MODEL: Default  
FILE NAME: P:\Temp\3202181671\4.0 Project Deliverables\4.3 Drawings\Structures\162039-TempSoilRetSign.dgn



USER NAME = _____	DESIGNED - BJD	REVISED - _____
	CHECKED - MGH	REVISED - _____
PLOT SCALE = _____	DRAWN - BJD	REVISED - _____
PLOT DATE = _____	CHECKED - WPM	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM AND  
MISCELLANEOUS DETAILS. STRUCTURE NO. 056-0330

SHEET 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	18
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				



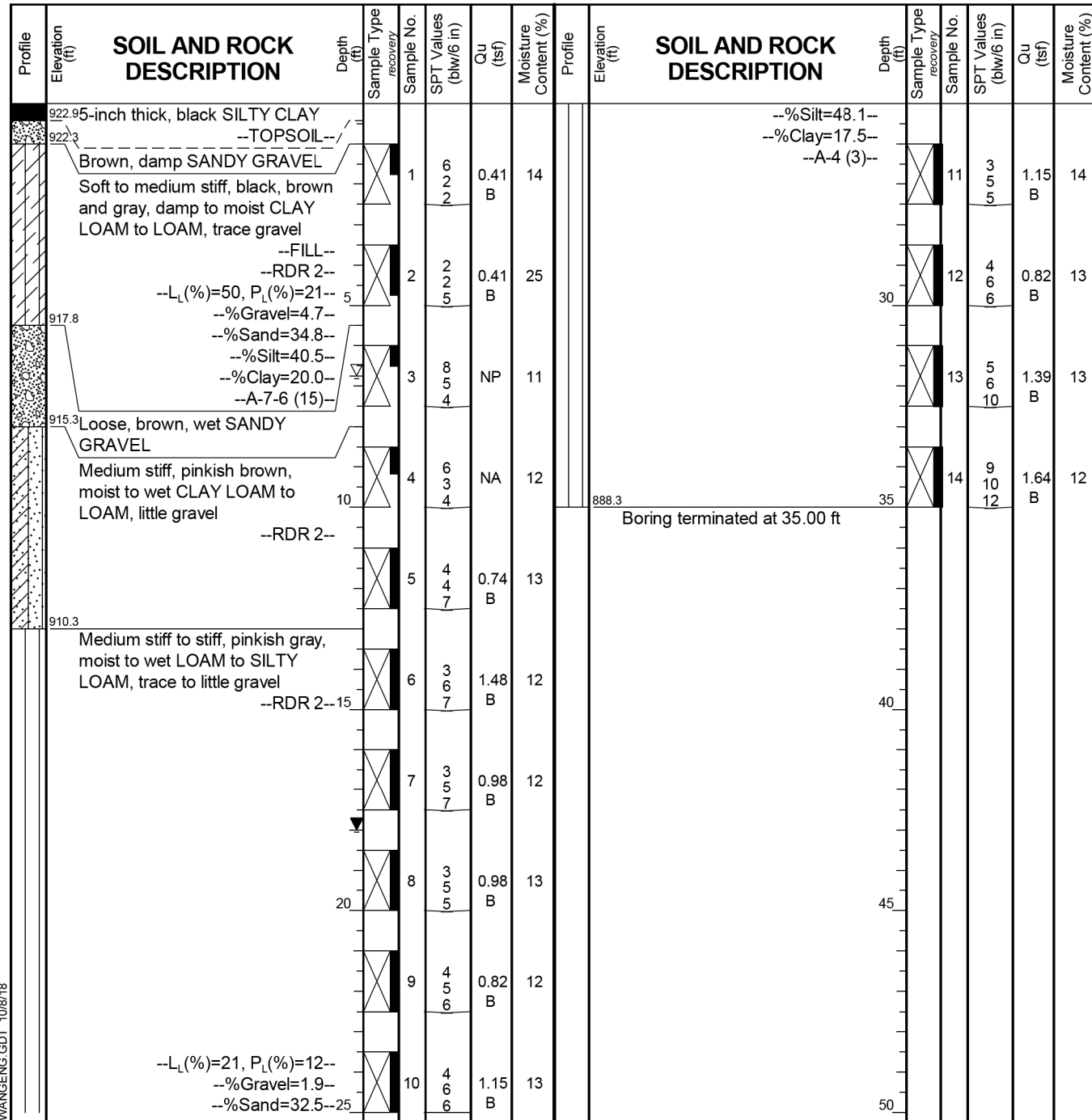
# BORING LOG CUL-01

wangeng@wangeng.com  
1145 N MAin Street  
Lombard, IL 60148  
Telephone: (630) 953-9928  
Fax: (630) 953-9938

WEI Job No.: 199-02-05

Client: **AES Services, Inc.**  
Project: **Illinois Route 120 over Unnamed Ditch**  
Location: **McHenry County, Illinois**

Datum: NAVD88  
Elevation: 923.32 ft  
North: 2062837.80 ft  
East: 947538.99 ft  
Station: 50+23.81  
Offset: 8.55 RT



### GENERAL NOTES

Begin Drilling: 09-21-2018 Complete Drilling: 06-21-2018  
 Drilling Contractor: Wang Testing Services Drill Rig: D50 TMR [78%]  
 Driller: J&K Logger: M. Ciapas Checked by: C. Marin  
 Drilling Method: 3.25" HSA; boring backfilled upon completion

### WATER LEVEL DATA

While Drilling: 6.75 ft  
 At Completion of Drilling: 18.00 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.



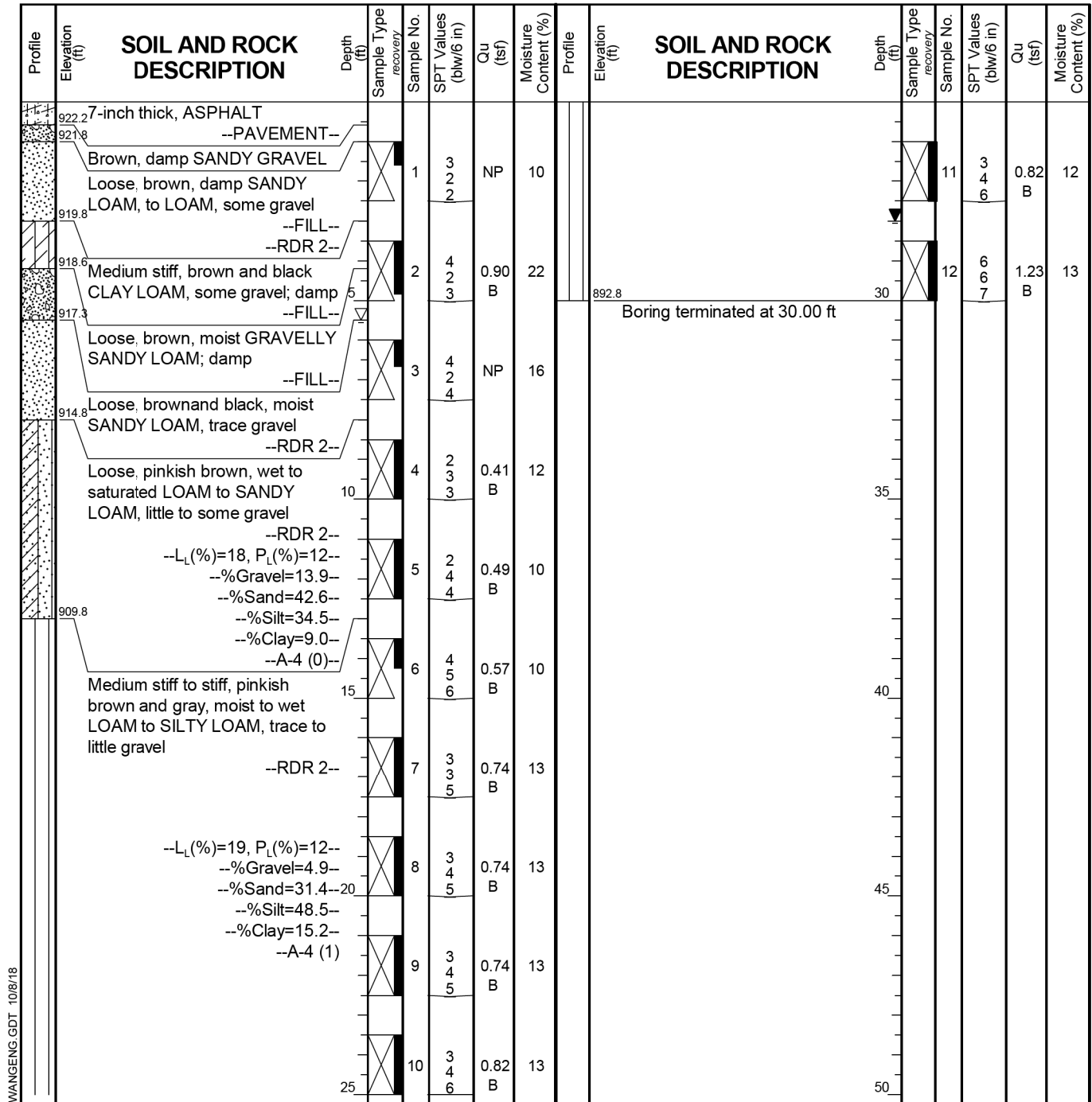
# BORING LOG CUL-02

wangeng@wangeng.com  
1145 N MAIN Street  
Lombard, IL 60148  
Telephone: (630) 953-9928  
Fax: (630) 953-9938

WEI Job No.: 199-02-05

Client: **AES Services, Inc.**  
Project: **Illinois Route 120 over Unnamed Ditch**  
Location: **McHenry County, Illinois**

Datum: NAVD88  
Elevation: 922.82 ft  
North: 2062876.18 ft  
East: 947520.89 ft  
Station: 49+85.68  
Offset: 9.03 LT



### GENERAL NOTES

Begin Drilling: 09-21-2018 Complete Drilling: 06-21-2018  
 Drilling Contractor: Wang Testing Services Drill Rig: D50 TMR [78%]  
 Driller: J&K Logger: M. Ciapas Checked by: C. Marin  
 Drilling Method: 3.25" HSA; boring backfilled upon completion

### WATER LEVEL DATA

While Drilling: 5.50 ft  
 At Completion of Drilling: 28.00 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.



USER NAME =	DESIGNED - BJD	REVISED -
	CHECKED - MGH	REVISED -
PLOT SCALE =	DRAWN - BJD	REVISED -
PLOT DATE	CHECKED - WPM	REVISED -

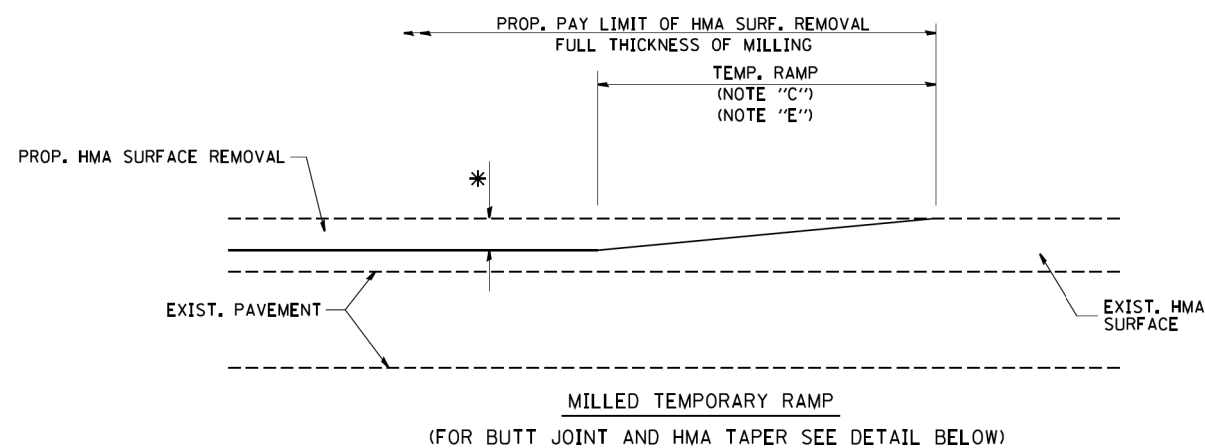
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 056-0330

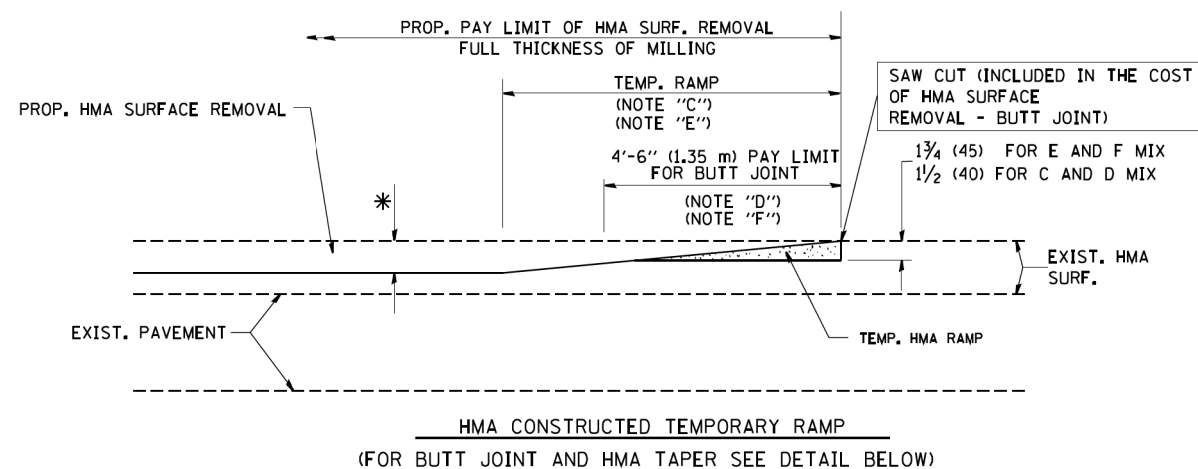
SHEET 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62D39				

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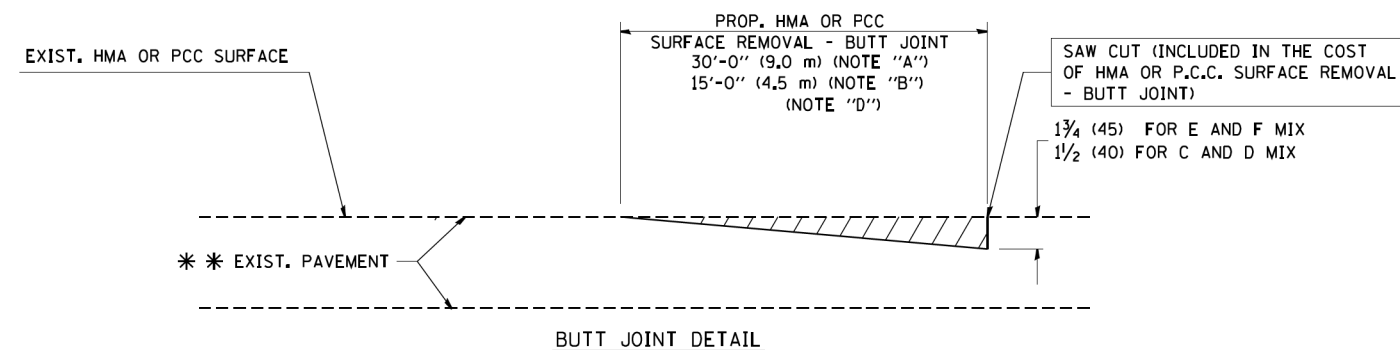


**OPTION 1**

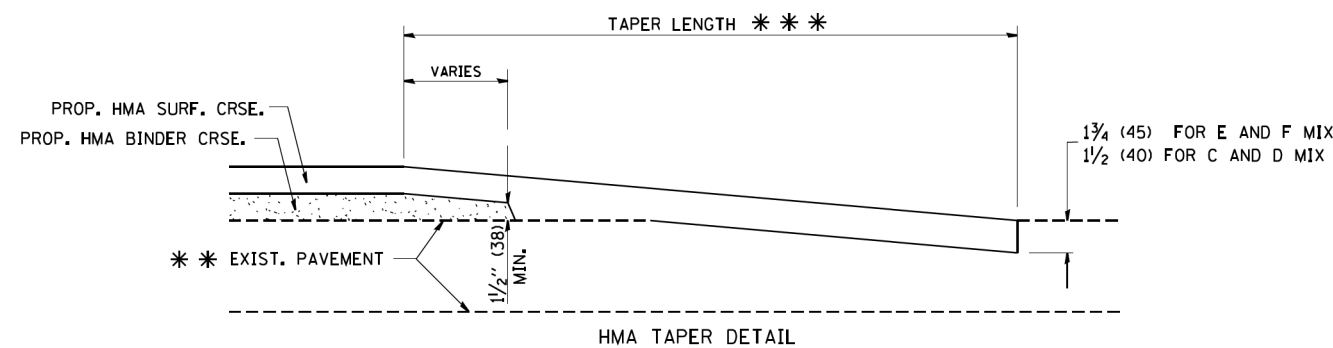


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\* \* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

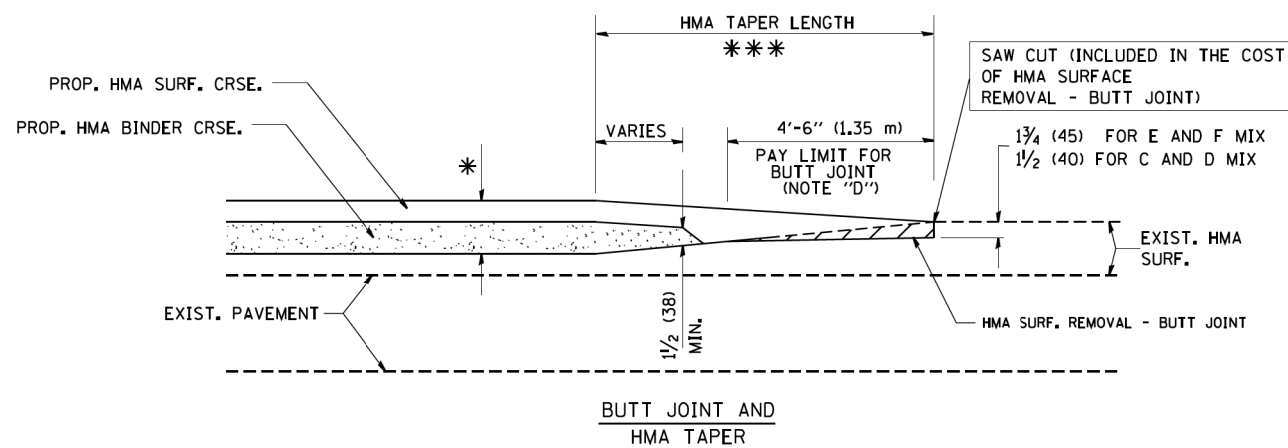
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



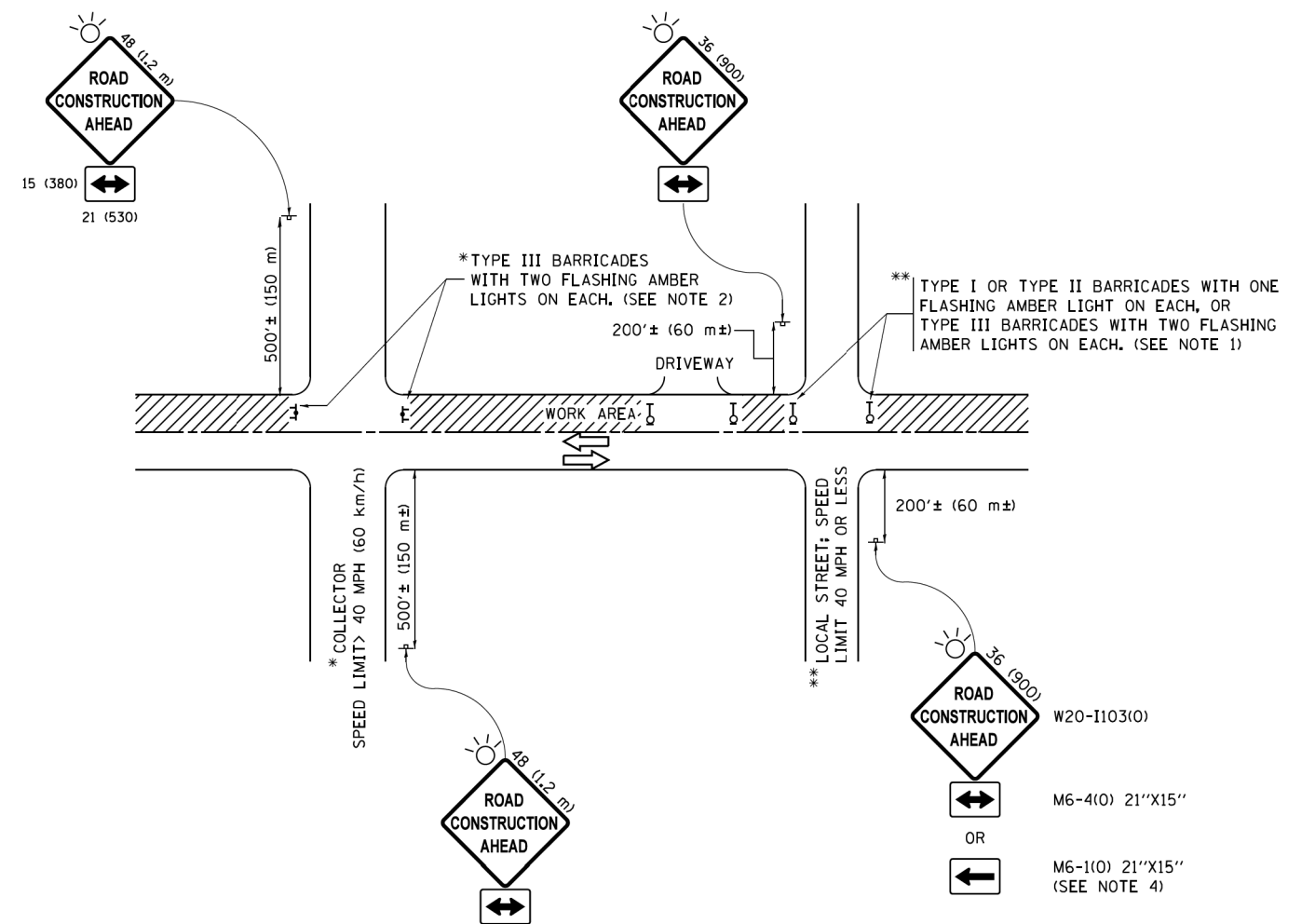
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PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	20
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				



**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. 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).
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.



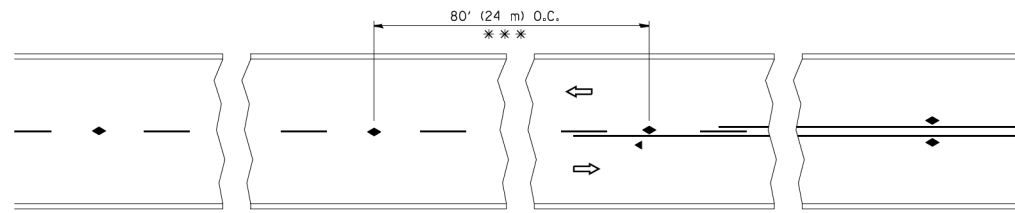
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PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS

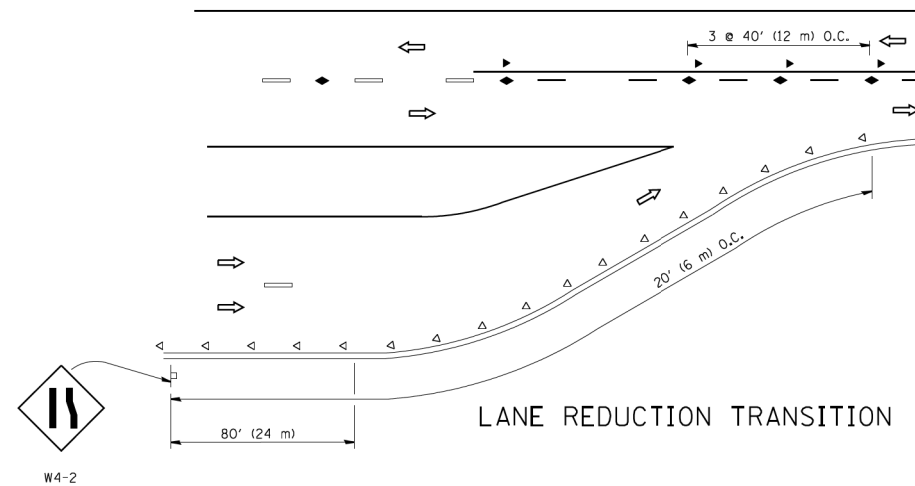
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

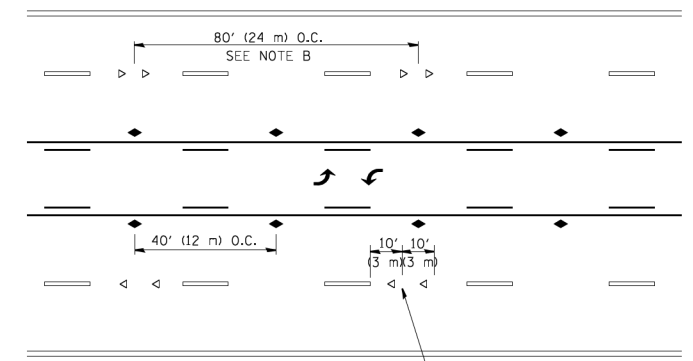


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

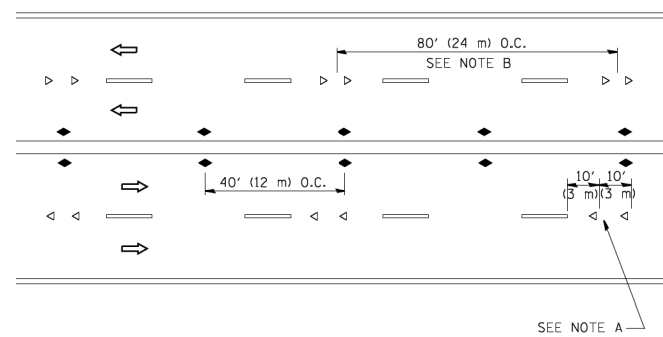
TWO-LANE/TWO-WAY



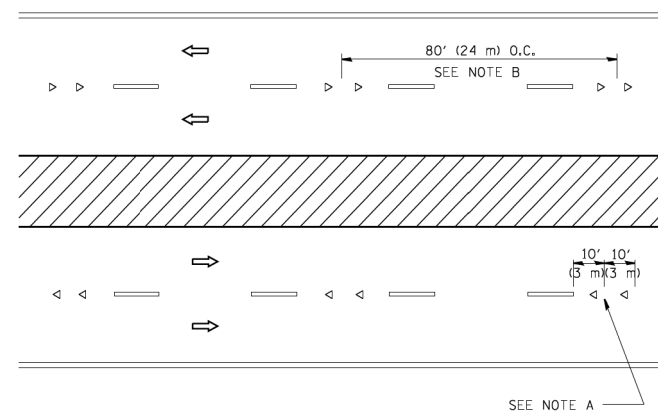
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

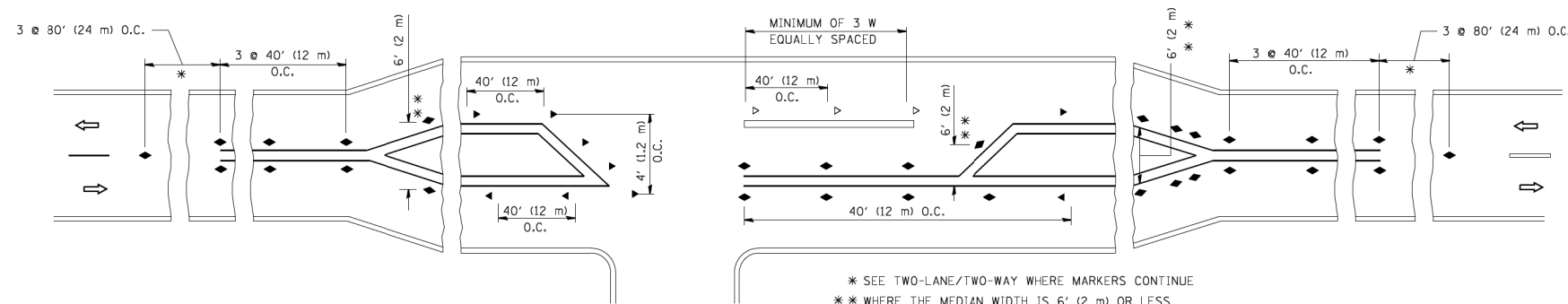
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- < ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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



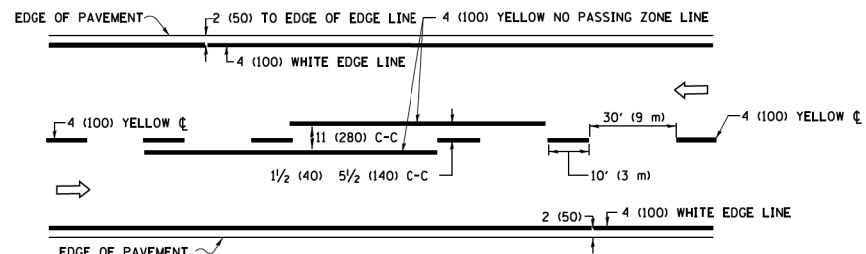
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

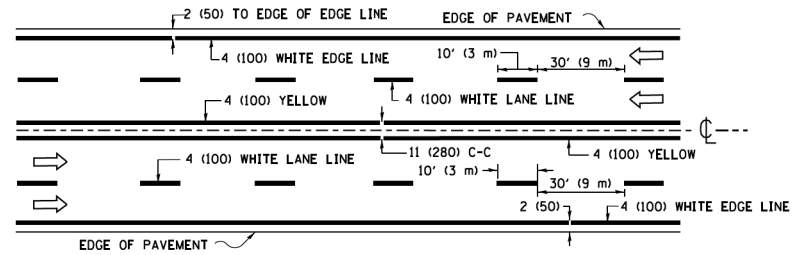
IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

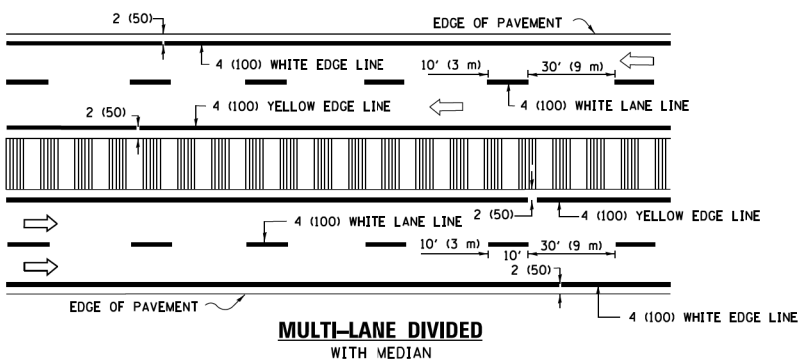
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	22
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

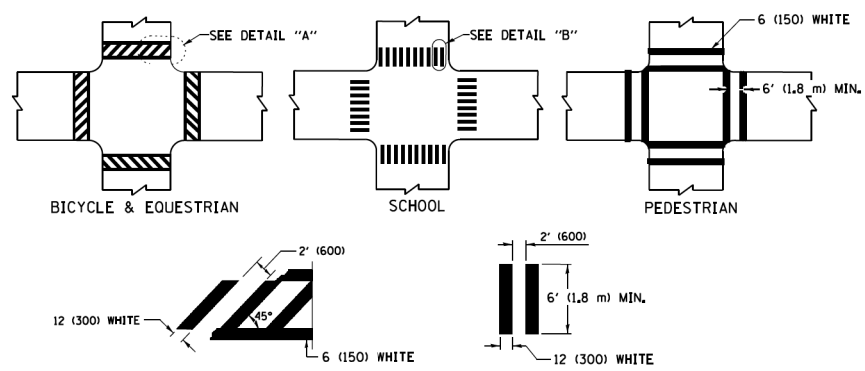


**MULTI-LANE UNDIVIDED**



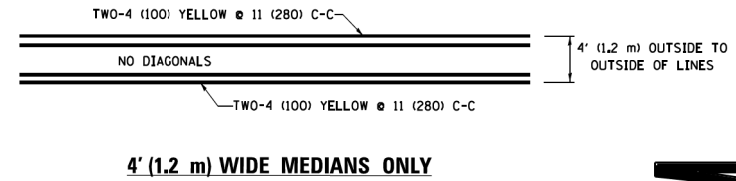
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

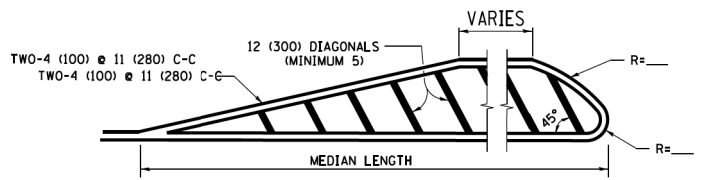


**TYPICAL CROSSWALK MARKING**

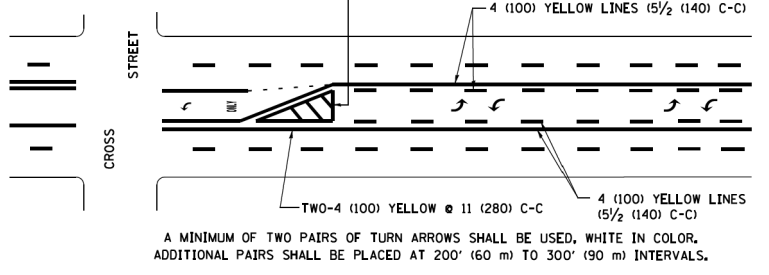
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



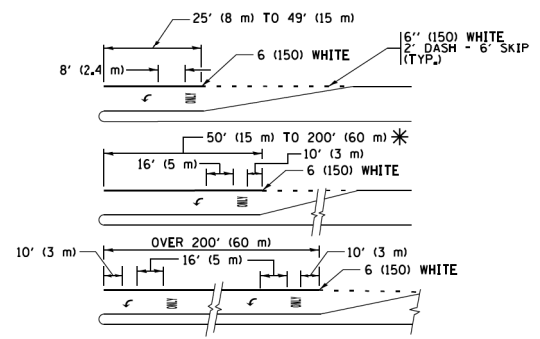
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



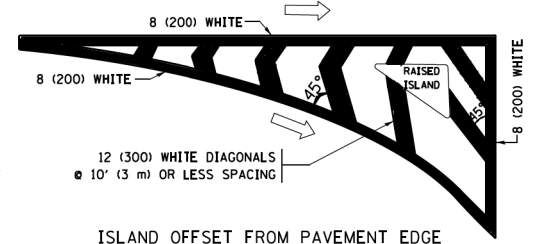
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



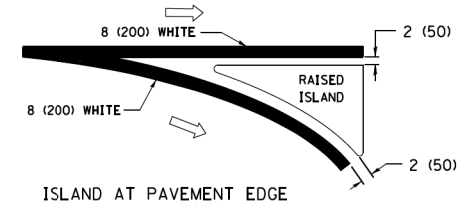
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

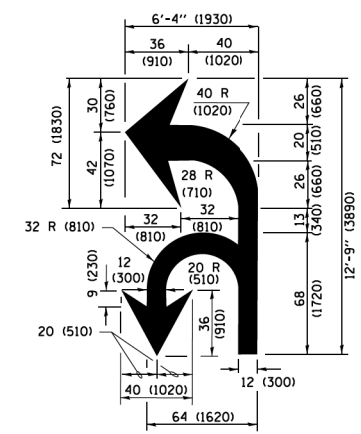
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



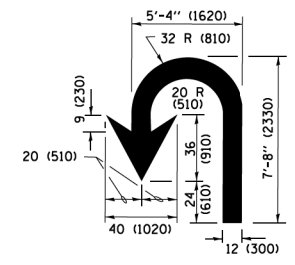
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS; 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.



USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -
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
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION


IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS


SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2016-053B	COUNTY MCHENRY	TOTAL SHEETS 27	SHEET NO. 23
				CONTRACT NO. 62D39
ILLINOIS FED. AID PROJECT				






**ROUTE MARKERS**

 FOR U.S. ROUTES  
M1-40-2424






 FOR ILLINOIS ROUTES  
M1-50-2424

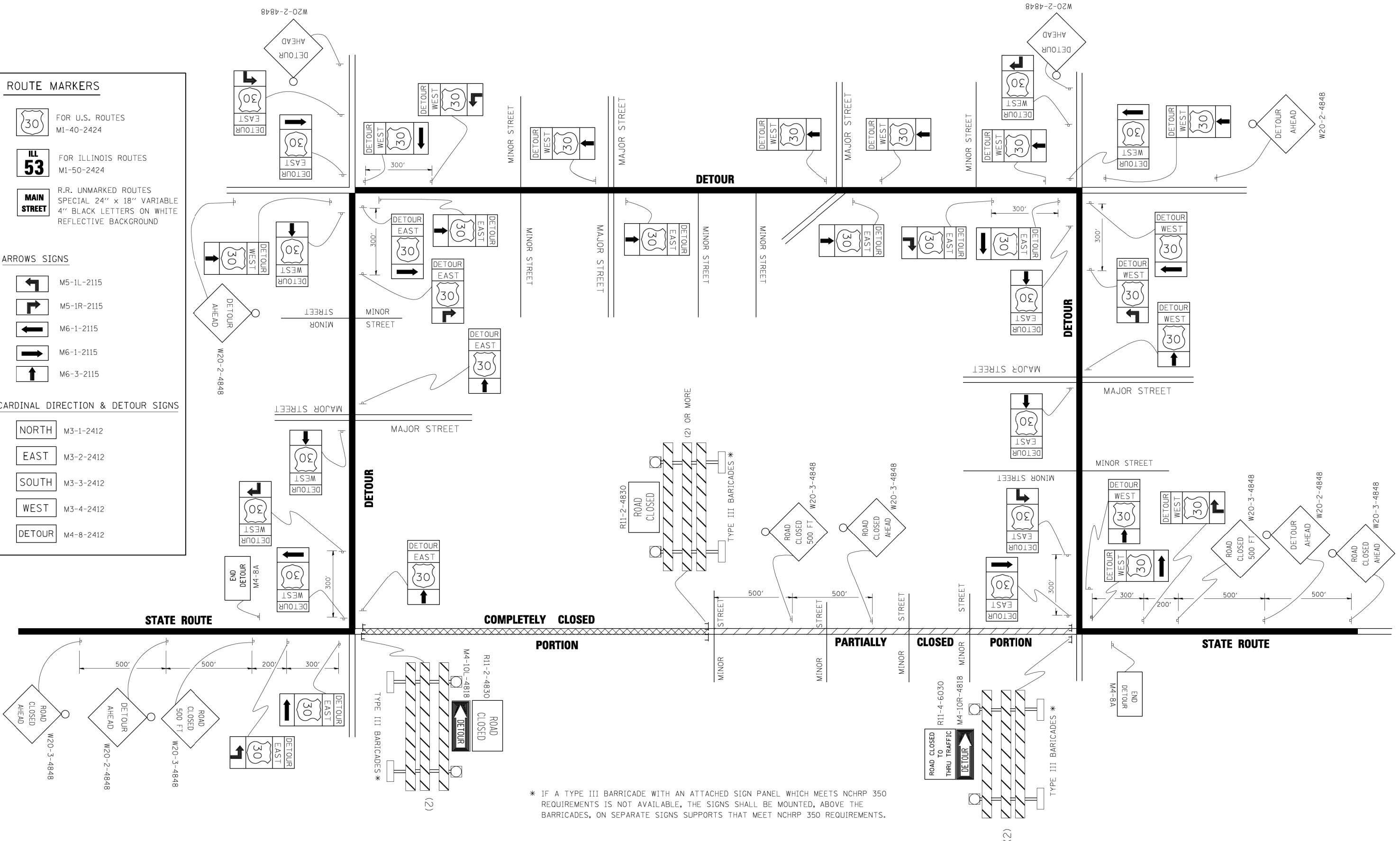
 R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.



USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - CP	REVISED -
PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

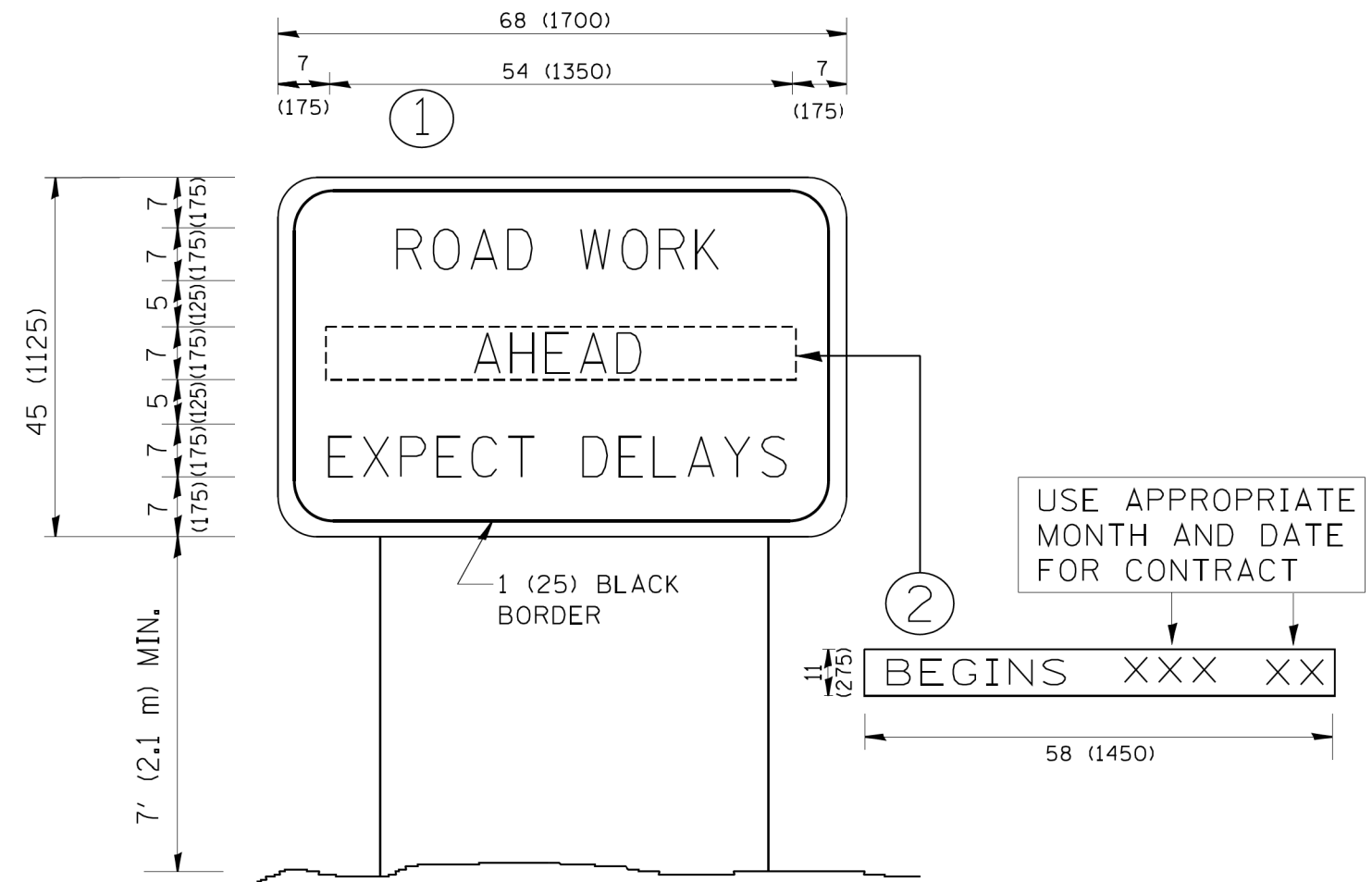
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	24
CONTRACT NO. 62D39				
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.



USER NAME = gustavo.pallares	DESIGNED - PK	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - CP	REVISED -
PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

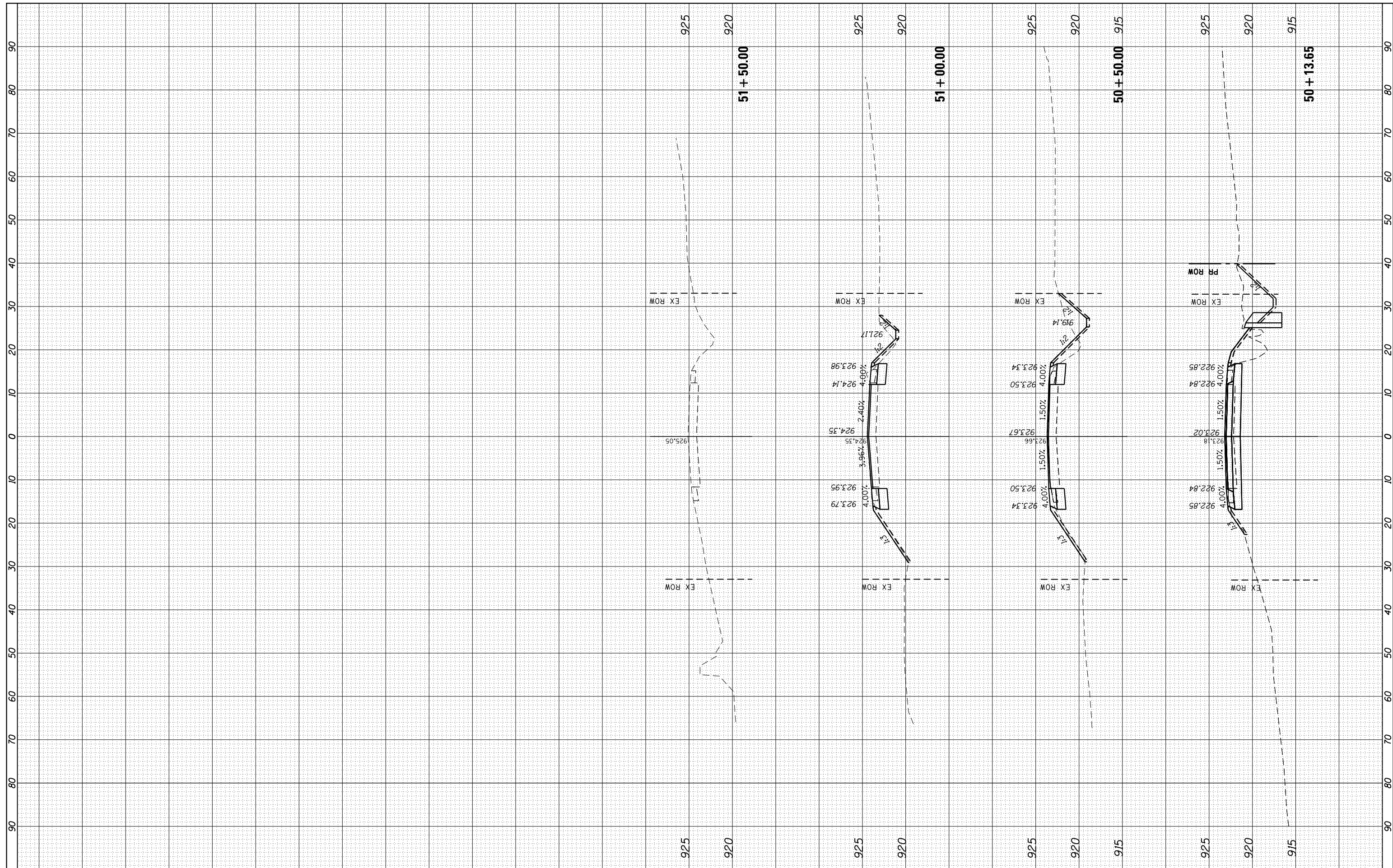
IL 120 OVER DRAINAGE DITCH  
DISTRICT ONE DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	25
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME	= gustavo.pallares
DESIGNED	- PK
DRAWN	- GJ
CHECKED	- CP
DATE	- 01/14/19
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 3/7/2019

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

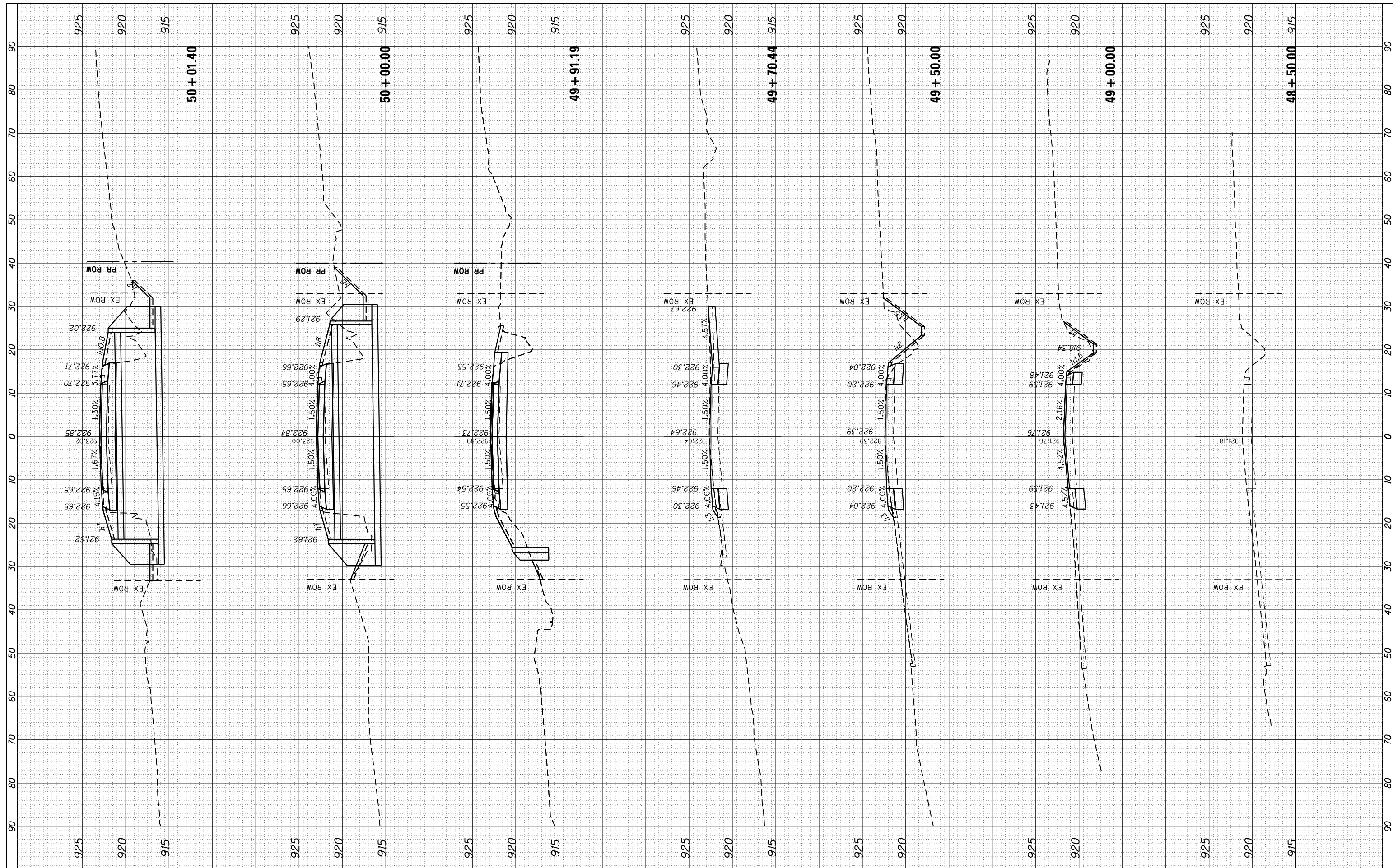
**IL 120 OVER DRAINAGE DITCH  
CROSS SECTIONS**

SCALE: SHEET 2 OF 2 SHEETS STA. 50+13.65 TO STA. 51+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	26
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = gustavo.pallares	DESIGNED - PK	REVISSED -
	DRAWN - GJ	REVISSED -
PLOT SCALE = 20.0000' / in.	CHECKED - CP	REVISSED -
PLOT DATE = 3/7/2019	DATE - 01/14/19	REVISSED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER DRAINAGE DITCH  
CROSS SECTIONS**

SCALE: SHEET 2 OF 1 SHEETS STA. 48+50.00 TO STA. 50+01.40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2016-053B	MCHENRY	27	27
CONTRACT NO. 62D39				
ILLINOIS FED. AID PROJECT				