

FOR INDEX OF SHEETS, SEE SHEET NO. 2

11-5-2021 LETTING ITEM 005

PROJECT LOCATED IN VILLAGES OF WADSWORTH, LAKE BLUFF AND GURNEE AND CITY OF LAKE FOREST

TRAFFIC DATA (US 41)*

LOCATION 1
2019 ADT = 22,700
POSTED SPEED = 55 MPH

LOCATION 4
2019 ADT = 46,400
POSTED SPEED (US 41 SB) = 55 MPH
POSTED SPEED (US 41 NB) = 45 MPH

LOCATIONS 2 AND 3
2019 ADT = 33,200
POSTED SPEED = 45-55 MPH

LOCATION 5
2017 ADT = 39,500
POSTED SPEED = 55 MPH

* FUNCTIONAL CLASSIFICATION = OTHER PRINCIPAL ARTERIAL

HBM ENGINEERING GROUP, LLC
ROBERT T. BORD, P.E.
*062-043749
Robert T. Bord
DATE: 07/29/2021
SIGNATURE AND SEAL APPLY TO DRAWINGS:
1-14, 36-38 AND 40-48
EXPIRATION DATE: 11-30-2021

QUIGG ENGINEERING INC.
MAURICE MICHAEL ORRENT, P.E.
*062-035785
M. Orrent
DATE: 07/29/2021
SIGNATURE AND SEAL APPLY TO DRAWINGS:
19, 35, 39, 59 AND 138-139
EXPIRATION DATE: 11-30-2021

HBM ENGINEERING GROUP, LLC
MOUSSA A. ISSA, PH.D., P.E., S.E.
*081-005738
Moussa A. Issa
DATE: 07/29/2021
SIGNATURE AND SEAL APPLY TO DRAWINGS:
65-137
EXPIRATION DATE: 11-30-2022

ACCURATE GROUP, INC.
DAVID A. HEYDEN, P.E.
*062-051707
David A. Hayden
DATE: 07/29/2021
SIGNATURE AND SEAL APPLY TO DRAWINGS:
15-18, 20-34, 49-58 AND 60-64
EXPIRATION DATE: 11-30-2021



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

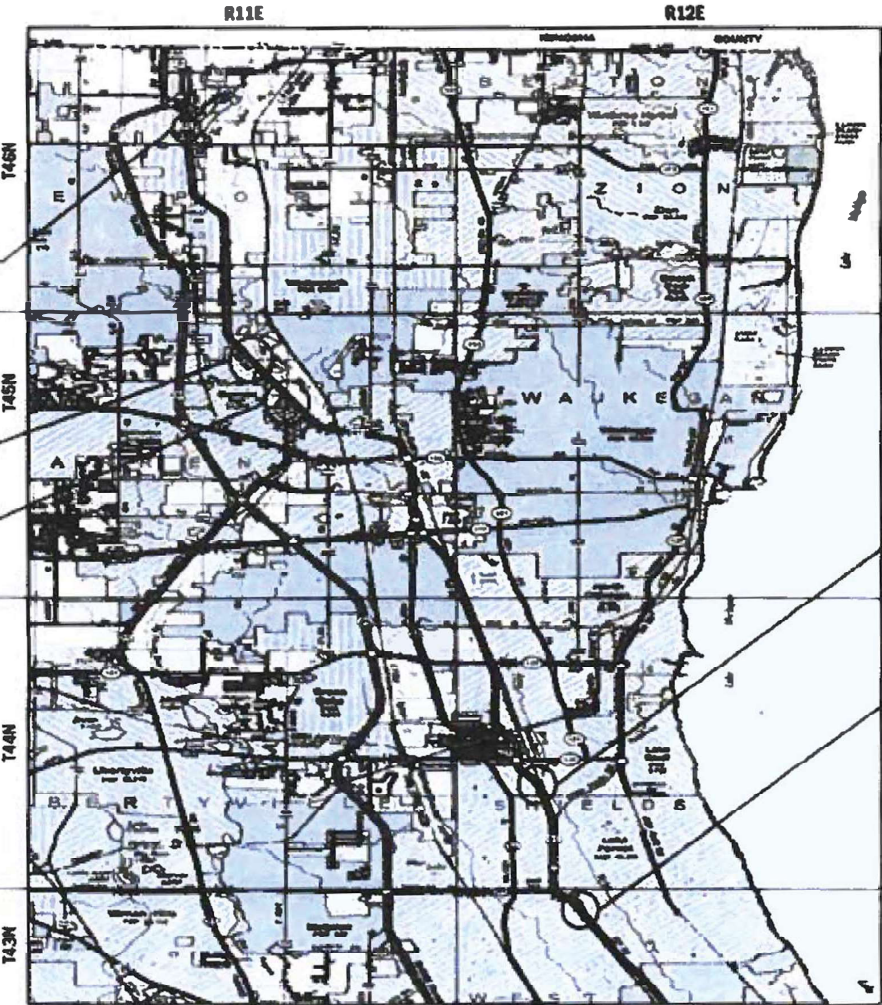
PROJECT ENGINEER PRAVEEN KAINI, PE (847) 705-4237
PROJECT MANAGER J. ALAIN MIDY, P.E. (847) 221-3056

CONTRACT NO. 62J26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 346: US 41 (SKOKIE HWY)
NORTH OF IL 173 TO SOUTH OF WESTLEIGH ROAD
SECTION 2019-049-T
PROJECT: NHPP-TVJM(289)
CULVERT REHABILITATION, CULVERT REMOVAL AND DRAINAGE
LAKE COUNTY
C-91-394-19

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	1
RUBENS			CONTRACT NO. 62J26	

D-91-174-19



LOC 1 US 41 OVER CR (0.4 MI. N OF IL 173, SN 049-0228) WADSWORTH

LOC 2 US 41 OVER SMALL CR (0.3 MI. N OF IL 21, SN 049-2016) GURNEE

LOC 3 US 41 OVER SMALL CR (0.5 MI. N OF IL 21, SN 049-2016) GURNEE

LOC 5 US 41 OVER DITCH (0.25 MI. S OF IL 176) LAKE BLUFF

LOC 4 US 41 OVER DITCH (0.25 MI. S OF WESTLEIGH RD., SN 049-0576) LAKE FOREST

LOCATION MAP NOT TO SCALE

GROSS LENGTH = NET LENGTH = 2,300 FT = 0.44 MILE

HBM
ENGINEERING GROUP, LLC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED July 30 20 21
Jose Rivero REGIONAL ENGINEER
October 1 20 21
Steph M. J... ENGINEER OF DESIGN AND ENVIRONMENT
October 21 20 21
Steph M. J... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

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QEI
QUIGG ENGINEERING INC

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LIST OF HIGHWAY STANDARDS

STANDARD NO. DESCRIPTION

000001-08 STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
 001001-02 AREAS OF REINFORCEMENT BARS
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
 442201-03 CLASS C AND D PATCHES
 515001-04 NAME PLATE FOR BRIDGES
 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
 542546-01 FLUSH INLET BOX FOR MEDIAN
 602401-07 4' (1.22 m) DIAMETER PRECAST MANHOLE TYPE A
 602402-03 5' (1.52 m) DIAMETER PRECAST MANHOLE TYPE A
 630001-12 STEEL PLATE BEAM GUARDRAIL
 630101-10 STRONG POST GUARDRAIL ATTACHED TO STRUCTURE
 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
 642001-02 SHOULDER RUMBLE STRIPS, 16 IN.
 643001-02 SAND MODULE IMPACT ATTENUATORS
 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
 701423-10 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 TO 55 MPH
 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
 701901-08 TRAFFIC CONTROL DEVICES
 704001-08 TEMPORARY CONCRETE BARRIER
 725001-01 OBJECT AND TERMINAL MARKERS
 780001-05 TYPICAL PAVEMENT MARKINGS
 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF WADSWORTH AND GURNEE AND CITY OF LAKE FOREST.
- THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL..
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED 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.
- 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.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN THE AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- THE ENGINEER WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171, AT LEAST 7 DAYS PRIOR TO TREE REMOVAL AND PRIOR TO PLANTING TO CHECK THE LAYOUT OF THE TREE REMOVAL, SELECTIVE CLEARING, WOODY PLANT CARE, AND OTHER LANDSCAPING ITEMS.
- THE COST OF CONNECTING THE TRAFFIC BARRIER TERMINAL, TYPE 2 TO THE EXISTING GUARDRAIL AT STRUCTURE NO. 049-0575 IS INCLUDED IN THE COST OF THE TRAFFIC BARRIER TERMINAL, TYPE 2
- THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND - NO INTRUSION". THE SIGN(S) WILL BE ATTACHED TO THE STAKES BY THE METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICK UP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
- THE RESIDENT ENGINEER WILL CONTACT LAKE COUNTY FOREST PRESERVE PRIOR TO THE START OF CONSTRUCTION TO INFORM THEM OF THE INITIATION OF CONSTRUCTION ACTIVITIES NEAR THEIR PROPERTIES.

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PLOT DATE = 6/18/2021	DATE - 6/18/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS
US-41 CULVERTS**

SCALE: 10,0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	2
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
				SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	84	69			15	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	243	227			16	
20101000	TEMPORARY FENCE	FOOT	180				180	
20200100	EARTH EXCAVATION	CU YD	3909	405	1330	1330	841	3
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	46.2	11.6	22.6	12		
20400800	FURNISHED EXCAVATION	CU YD	106		36	45	25	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	47	14	9	13	11	
20800150	TRENCH BACKFILL	CU YD	73	57			16	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	550	151	146	72	181	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	60					60
21400100	GRADING AND SHAPING DITCHES	FOOT	280	70			210	
25000210	SEEDING, CLASS 2A	ACRE	0.58	0.19	0.18	0.03	0.17	0.01
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	87	25	23	11	27	1
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	87	25	23	11	27	1

* SPECIALTY ITEM

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USER NAME = all.issa	DESIGNED - AMI	REVISED -
DRAWN - AMI	CHECKED - KJD, JMG	REVISED -
PLOT SCALE = 80.0000 ' / in.	DATE - 10/8/2020	REVISED -
PLOT DATE = 10/8/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80.0000 ' / in SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	3
CONTRACT NO. 62J26			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
			LOCATION 1 SN 049-0228	LOCATION 2 SN 049-2016	LOCATION 3 SN 049-2015	LOCATION 4 SN 049-0575	LOCATION 5	
25100630	EROSION CONTROL BLANKET	SQ YD	2811	941	852	157	841	20
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1944	406	409	452	637	40
28000305	TEMPORARY DITCH CHECKS	FOOT	100	30	10	10	20	30
28000400	PERIMETER EROSION BARRIER	FOOT	6263	2069	2047	332	1785	30
28100105	STONE RIPRAP, CLASS A3	SQ YD	12					12
28100107	STONE RIPRAP, CLASS A4	SQ YD	47		22	25		
28100113	STONE RIPRAP, CLASS A7	SQ YD	48	48				
28200200	FILTER FABRIC	SQ YD	81	34	22	25		
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1892	1892				
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	10415	1573	2528	2528	3786	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1300	118	449	449	284	
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	142	142				
40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SQ YD	1892	1892				
44000300	CURB REMOVAL	FOOT	701	701				

* SPECIALTY ITEM

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USER NAME = allissa	DESIGNED - AMI	REVISED -
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PLOT SCALE = 80,0000 ' / in.	CHECKED - KJD, JMG	REVISED -
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80,0000 ' / in. SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	4
			CONTRACT NO. 62J26	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
				SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575	
44003100	MEDIAN REMOVAL	SQ FT	1465	1465				
44004250	PAVED SHOULDER REMOVAL	SQ YD	10415	1573	2528	2528	3786	
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	111	55	36	14	6	
48203045	HOT-MIX ASPHALT SHOULDERS, 12"	SQ YD	10415	1573	2528	2528	3786	
50102400	CONCRETE REMOVAL	CU YD	108.2	25.2	45.3	31	6.7	
50105220	PIPE CULVERT REMOVAL	FOOT	10					10
50300225	CONCRETE STRUCTURES	CU YD	19.5		19.5			
50800105	REINFORCEMENT BARS	POUND	21,570	5550	10,970	5000		50
50800515	BAR SPLICERS	EACH	16		16			
51500100	NAME PLATES	EACH	3	1	1	1		
52200010	TEMPORARY SHEET PILING	SQ FT	2640	1105	512	1023		
54003000	CONCRETE BOX CULVERTS	CU YD	76.8	25.5	20.9	30.4		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1					1

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80.0000' / in SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	5
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
	LOCATION 1 SN 049-0228	LOCATION 2 SN 049-2016	LOCATION 3 SN 049-2015	LOCATION 4 SN 049-0575	LOCATION 5			
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1	1				
54248510	CONCRETE COLLAR	CU YD	0.9					0.9
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	6					6
550A0080	STORM SEWERS, CLASS A, TYPE 1 16"	FOOT	20		20			
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	18				18	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	117	74			43	
55100500	STORM SEWER REMOVAL 12"	FOOT	28	28				
55100800	STORM SEWER REMOVAL 16"	FOOT	20		20			
55100900	STORM SEWER REMOVAL 18"	FOOT	18	18				
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	108.1				108.1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1				1	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1				1	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1075	512.5	387.5	137.5	37.5	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US-41 CULVERTS

SCALE: 80,0000' / in. SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	6
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575					
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	63	25	13	25		
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	26		13		13	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	7	2	2	2	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2				
63200310	GUARDRAIL REMOVAL	FOOT	629	194	79	79	277	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	100		37.5	25	37.5	
* 63301235	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	38		13	25		
63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	156	16	64	76		
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	2410		1205	1205		
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	11129	1147	3733	3075	3174	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	3320	664	664	664	664	664
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	1.2	1.2	1.2	1.2	1.2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.2	0.2	0.2	0.2	0.2
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.2	0.2	0.2	0.2	0.2
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	2	2.5	2.5	2	1

* SPECIALTY ITEM

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	DATE - 8/3/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80.0000 ' / in SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	7
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5				
SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	2.4	2.4	2.4	2.4	2.4
67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0.2
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	252	112	42	42	56	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	36	13	5	5	13	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	31791	5412	12998	6241	7140	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2376	500	475	450	788	163
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2550	900	937.5	412.5	300	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	1	1	1		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		1		2	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1				1	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3		2	1		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16357	1754	7072	3831	3700	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1587	1587				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1699	170	726	561	242	

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80,0000 * / in. SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	8
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN				
				CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
				SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575	
* 78100300	REPLACEMENT REFLECTOR	EACH	182	16	88	36	42	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	31	11	12	6	2	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	14					14
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5339	670	2206	1222	1241	
K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	0.5			0.5	
X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	132		38	94		
X0323723	CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT, LOCATION 1	L SUM	1				1	
X0327301	RELOCATE EXISTING MAILBOX	EACH	1			1		
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	78	22	41	15		
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	5	1	1	1	1	1
X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.45	0.09	0.1	0.09	0.16	0.01
X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.44					
X5430110	CORRUGATED STEEL ARCH LINER	FOOT	139	139				
** X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	411	160	143	62	46	

* SPECIALTY ITEM

** NON-PARTICIPATING

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US-41 CULVERTS**

SCALE: 80,0000 * / in. SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	9
CONTRACT NO. 62J26			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE				
				80% FED 20% STATE				
				0004				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
SN 049-0228	SN 049-2016	SN 049-2015	SN 049-0575					
** X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	111		111			
** X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	182				182	
** X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	252				252	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.00					1.00
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	10597	1804	4333	2080	2380	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	182	16	88	36	42	
** Z0005305	BOX CULVERTS TO BE CLEANED	FOOT	312		99	113	100	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.2	0.2	0.2	0.2
Z0015550	DEBRIS REMOVAL	CU YD	20					20
<input type="checkbox"/> Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	1			3	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	211	77.1	25.7	57.2	51	
Z0054400	ROCK FILL	CU YD	47	12	23	12		
*** Z0076600	TRAINEES	HOUR						
X4420737	CLASS D PATCHES, TYPE 1, 8 INCH (SPECIAL)	SQ YD	188	48	115	25		
X4428183	CLASS D PATCHES, TYPE 1, 13 INCH (SPECIAL)	SQ YD	101	32			69	
∅ Z0076600	TRAINEES	HOURS	500	500				
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

* SPECIALTY ITEM
 ** NON-PARTICIPATING
 *** 0042

NON-PART 100% STATE 0042



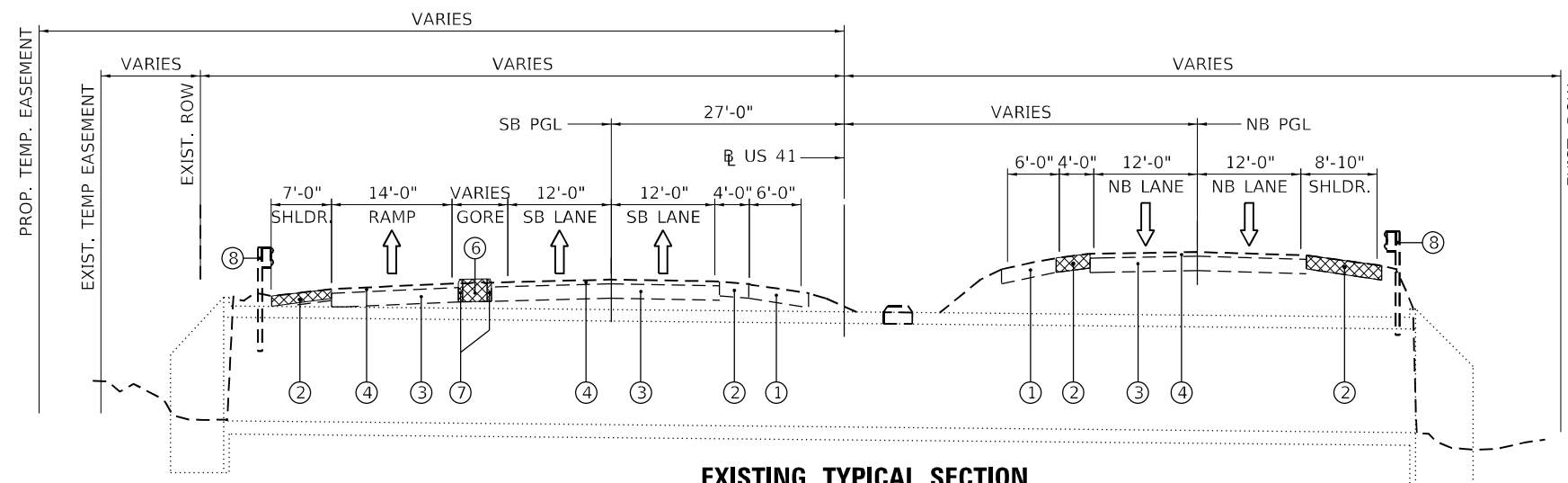
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US-41 CULVERTS

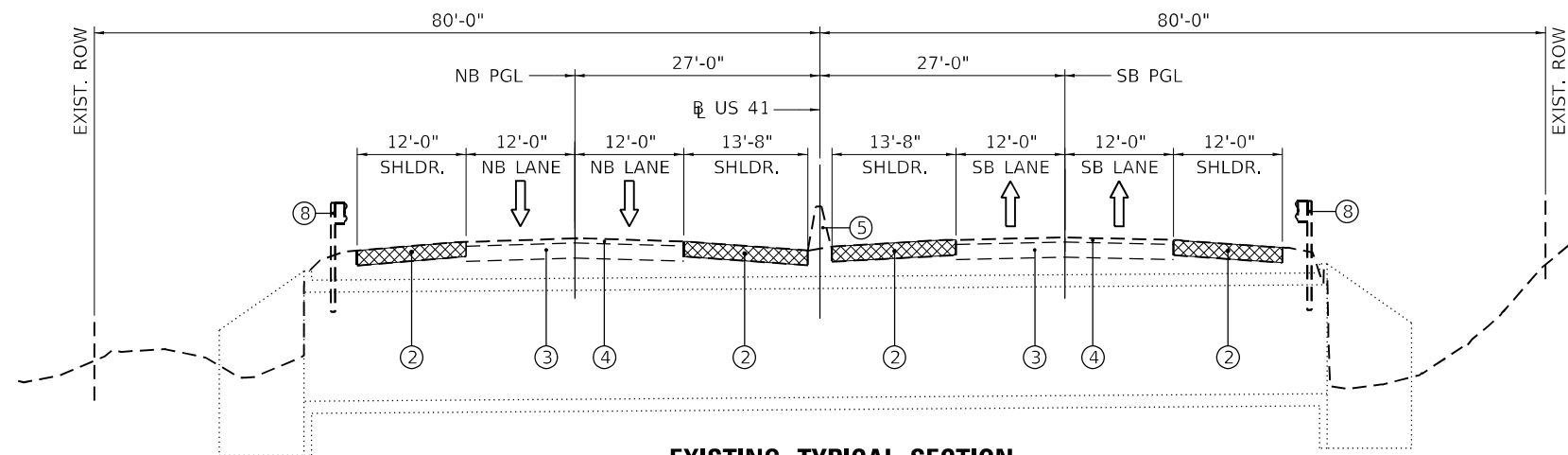
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	10
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				



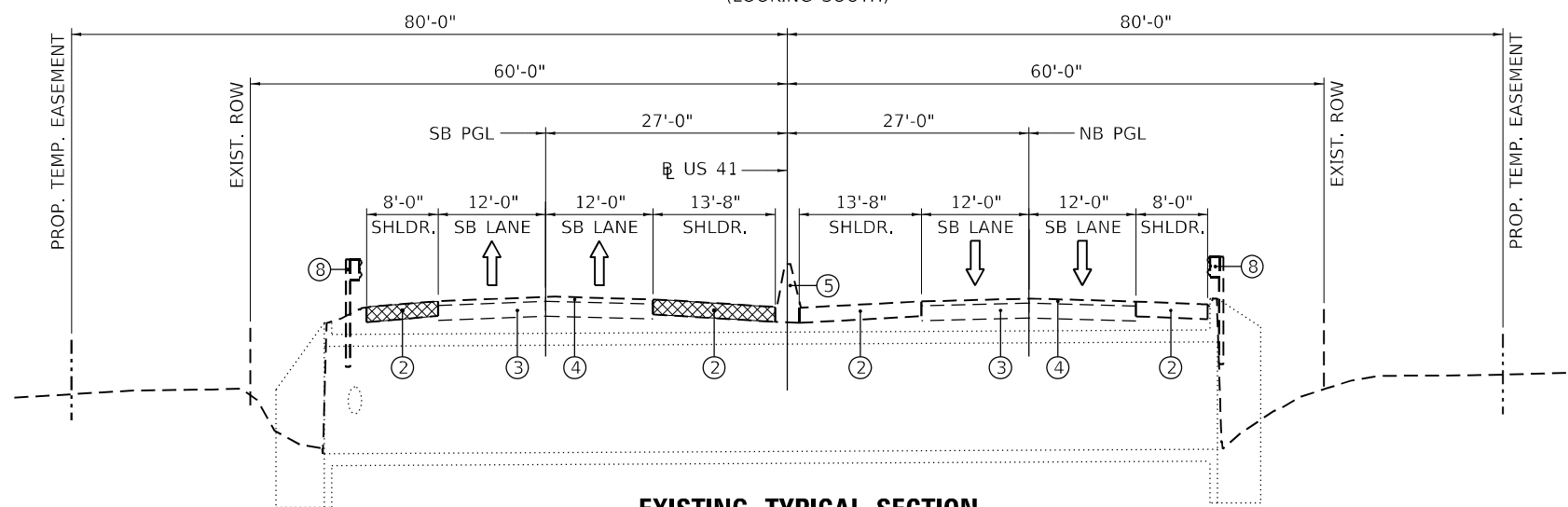
EXISTING TYPICAL SECTION

LOCATION 1 (S.N. 049-0228)
(LOOKING NORTH)



EXISTING TYPICAL SECTION

LOCATION 2 AND 3 (S.N. 049-2016 AND S.N. 049-2015)
(CULVERT S.N. 049-2016 SHOWN)
(LOOKING SOUTH)



EXISTING TYPICAL SECTION

LOCATION 4 (S.N. 049-0575)
(LOOKING NORTH)

SHOULDER DEPTHS

LOCATION (SN)	SHOULDER DEPTHS
LOCATION 1 049-0228	8"
LOCATION 2 049-2016	8"
LOCATION 3 049-2015	8"
LOCATION 4 049-0575	8"

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING HMA SHOULDER
- ③ EXISTING CONCETE PAVEMENT 10"
- ④ EXISTING HMA SURFACE 3"
- ⑤ EXISTING CONCRETE BARRIER WALL
- ⑥ MEDIAN REMOVAL
- ⑦ CURB REMOVAL
- ⑧ GUARDRAIL REMOVAL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
US-41 CULVERTS**

SCALE: 20,0000 ' / in. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	11
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

HMA MIXTURE TABLE

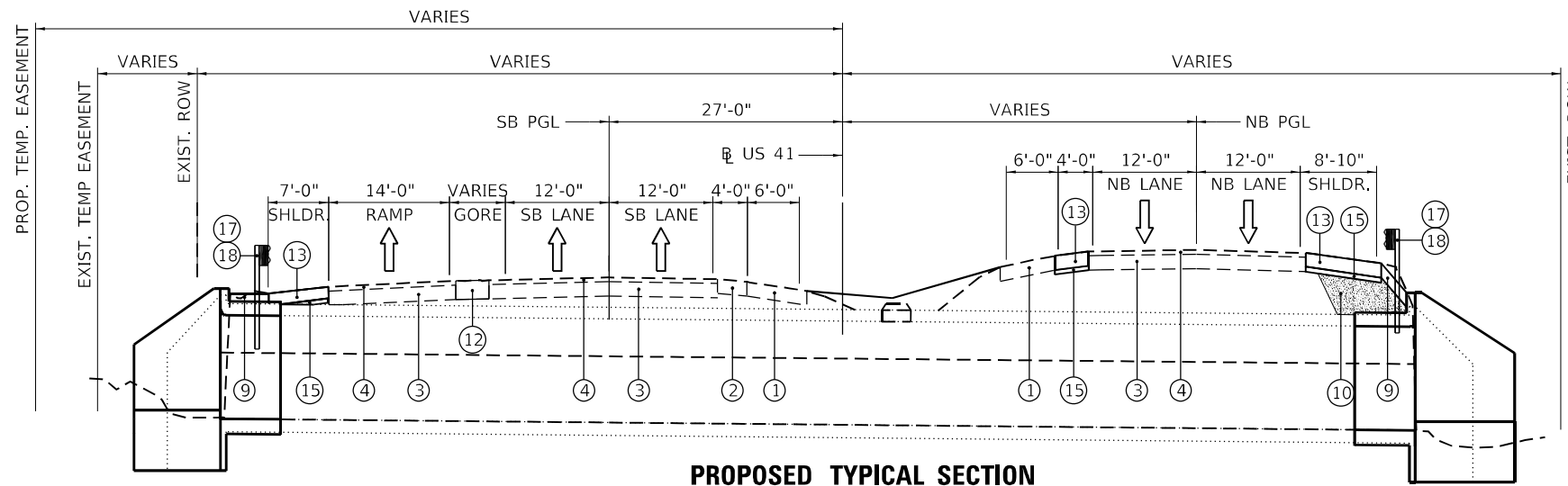
PAY ITEM DESCRIPTION	MIX TYPE	% AIR VOIDS @ Ndes	QMP DESIGNATION
CLASS D PATCHES, (SPECIAL)	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm); TOP 2"	4%@70 GYR	QC/QA
	(HMA BINDER IL-19 mm)	4%@70 GYR	QC/QA
SHOULDER RUMBLE STRIPS, 16 INCH	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm)	4%@70 GYR	QC/QA
HMA PAVEMENT FULL DEPTH 10"	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm); TOP 2"	4%@70 GYR	QC/QA
	(HMA BINDER IL-19 mm)	4%@70 GYR	QC/QA
HMA SHOULDER, 12"	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm); TOP 2"	4%@70 GYR	QC/QA
	(HMA BINDER IL-19 mm)	4%@70 GYR	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

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

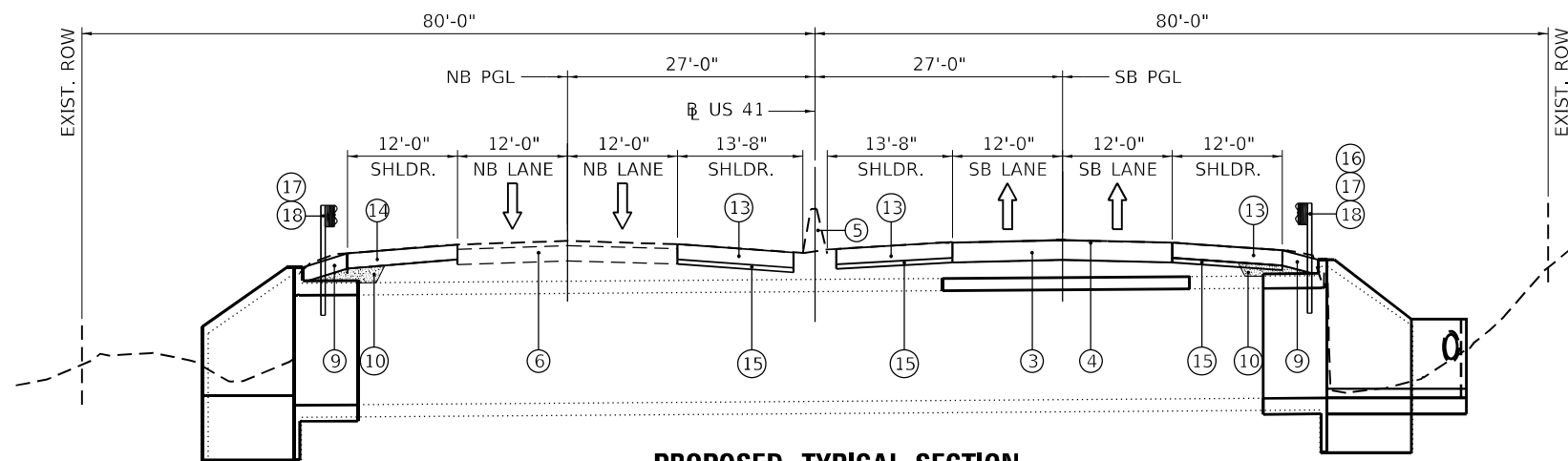
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIX QUANTITIES IS 112 LBS/SQYD/IN. THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLE MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.



PROPOSED TYPICAL SECTION

LOCATION 1 (S.N. 049-0228)
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

LOCATION 2 (S.N. 049-2016)
(LOOKING SOUTH)

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING HMA SHOULDER
- ③ EXISTING CONCETE PAVEMENT 10"
- ④ EXISTING HMA SURFACE 3"
- ⑤ EXISTING CONCRETE BARRIER WALL
- ⑥ CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- ⑦ CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT, LOCATION 1
- ⑧ TOPSOIL EXCAVATION AND PLACEMENT
- ⑨ AGGREGATE SHOULDER, TYPE B 10"
- ⑩ POROUS GRANULAR EMBANKMENT
- ⑪ EMBANKMENT
- ⑫ HMA PAVEMENT FULL DEPTH 10" WITH AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑬ HMA SHOULDER, 12"
- ⑭ CLASS D PATCHES, TYPE I, 8 INCH (SPECIAL)
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑯ LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN STA. 379+93.50 RT TO STA. 380+06.00 RT STA. 69+91.50 LT TO STA. 70+04.00 LT
- ⑰ STRONG POST GUARDRAIL ATTACHED TO CULVERT STA. 49+98.50 LT TO STA. 50+11.00 LT STA. 49+96.25 RT TO STA. 50+08.75 RT STA. 379+95.25 LT TO STA. 380+07.75 LT STA. 393+84.25 LT TO STA. 393+96.75 LT STA. 393+25.25 RT TO STA. 393+37.75 RT
- ⑱ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS STA. 49+73.50 LT TO STA. 49+98.50 LT STA. 45+40.00 RT TO STA. 49+96.25 RT STA. 50+08.75 RT TO STA. 50+27.50 RT STA. 379+76.50 LT TO STA. 379+95.25 LT STA. 380+07.75 LT TO STA. 380+26.50 LT STA. 379+68.50 RT TO STA. 379+93.50 RT STA. 393+66.13 LT TO STA. 393+84.25 LT STA. 393+96.75 LT TO STA. 394+15.50 LT STA. 392+94.00 RT TO STA. 393+25.25 RT STA. 393+37.75 RT TO STA. 393+81.50 RT STA. 69+79.00 LT TO STA. 69+91.50 LT STA. 70+04.00 LT TO STA. 70+29.00 LT

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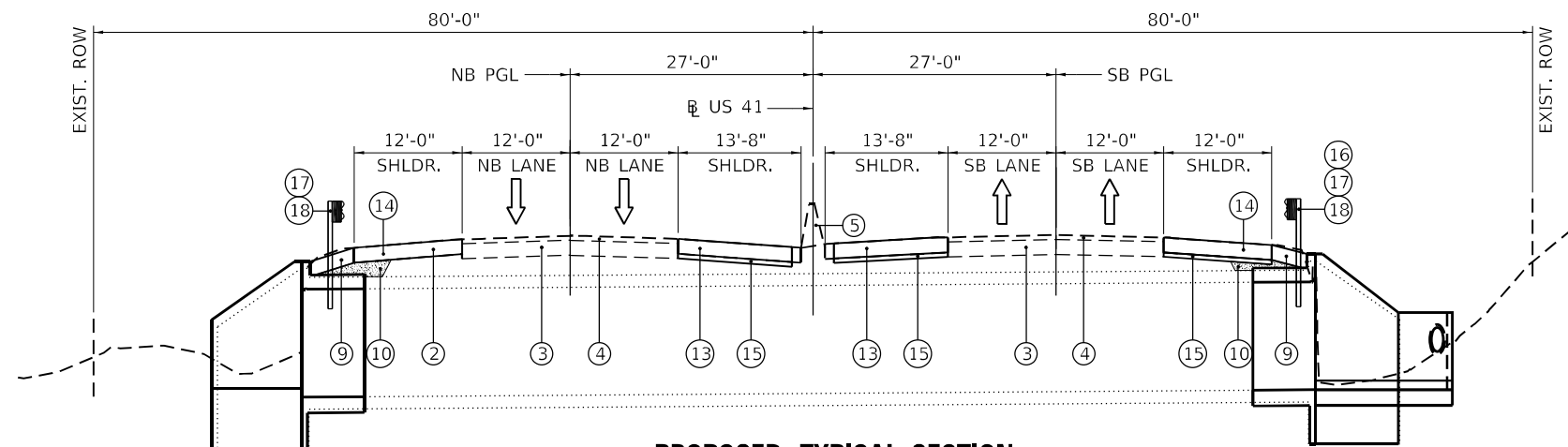
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

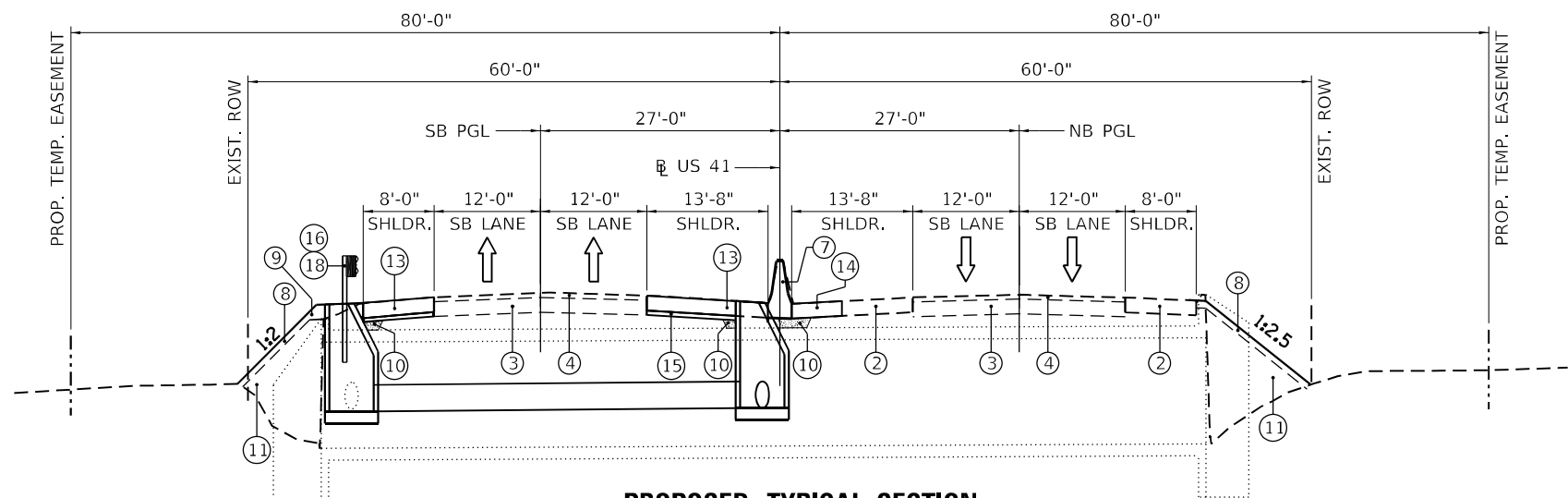
PROPOSED TYPICAL SECTIONS
US-41 CULVERTS

SCALE: 20,0000' / in. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	12
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



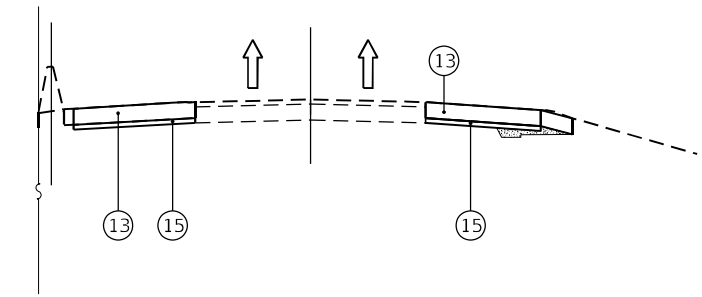
PROPOSED TYPICAL SECTION
 LOCATION 3 (S.N. 049-2015)
 (LOOKING SOUTH)



PROPOSED TYPICAL SECTION
 LOCATION 4 (S.N. 049-0575)
 (LOOKING NORTH)

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING HMA SHOULDER
- ③ EXISTING CONCETE PAVEMENT 10"
- ④ EXISTING HMA SURFACE 3"
- ⑤ EXISTING CONCRETE BARRIER WALL
- ⑥ CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- ⑦ CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT, LOCATION 1
- ⑧ TOPSOIL EXCAVATION AND PLACEMENT
- ⑨ AGGREGATE SHOULDER, TYPE B 10"
- ⑩ POROUS GRANULAR EMBANKMENT
- ⑪ EMBANKMENT
- ⑫ HMA PAVEMENT FULL DEPTH 10" WITH AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑬ HMA SHOULDER, 12"
- ⑭ CLASS D PATCHES, TYPE I, 8 INCH (SPECIAL)
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑯ LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN
 STA. 379+93.50 RT TO STA. 380+06.00 RT
 STA. 69+91.50 LT TO STA. 70+04.00 LT
- ⑰ STRONG POST GUARDRAIL ATTACHED TO CULVERT
 STA. 49+98.50 LT TO STA. 50+11.00 LT
 STA. 49+96.25 RT TO STA. 50+08.75 RT
 STA. 379+95.25 LT TO STA. 380+07.75 LT
 STA. 393+84.25 LT TO STA. 393+96.75 LT
 STA. 393+25.25 RT TO STA. 393+37.75 RT
- ⑱ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 STA. 49+73.50 LT TO STA. 49+98.50 LT
 STA. 45+40.00 RT TO STA. 49+96.25 RT
 STA. 50+08.75 RT TO STA. 50+27.50 RT
 STA. 379+76.50 LT TO STA. 379+95.25 LT
 STA. 380+07.75 LT TO STA. 380+26.50 LT
 STA. 379+68.50 RT TO STA. 379+93.50 RT
 STA. 380+06.00 RT TO STA. 383+18.00 RT
 STA. 393+66.13 LT TO STA. 393+84.25 LT
 STA. 393+96.75 LT TO STA. 394+15.50 LT
 STA. 392+94.00 RT TO STA. 393+25.25 RT
 STA. 393+37.75 RT TO STA. 393+81.50 RT
 STA. 69+79.00 LT TO STA. 69+91.50 LT
 STA. 70+04.00 LT TO STA. 70+29.00 LT



**TYPICAL PRESTAGE SHOULDER RECONSTRUCTION.
 FOR STAGED TRAFFIC**

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	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
 US-41 CULVERTS**

SCALE: 20,0000' / in. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	13
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE									
LOCATION	STRUTURE NUMBER	EARTH EXCAVATION (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	EXCAVATION FOR CULVERT (CU YD)	EXCAVATION FOR DRAINAGE STRUCTURES (CU YD)	EXCAVATION ADJUSTED FOR SHRINKAGE 15% (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
LOCATION 1	SN 049-0228	405	85	326	69	680	0	381	+299
LOCATION 2	SN 049-2016	1330	91	312	0	1396	0	303	+1093
LOCATION 3	SN 049-2015	1330	88	389	0	1462	0	376	+1086
LOCATION 4	SN 049-0575	841	116	17	16	743	0	53	+690
LOCATION 5		3	-	6	0	8	0	10	-2
TOTAL	-	-	-	-	-	-	-	-	+3166

STEEL PLATE BEAM GUARDRAIL, TYPE A						
LOCATION	BOUND	STAGE	STATION	TO	STATION	LENGTH
LOCATION 1	SB	3	49+73.50		49+98.50	25'
	NB	1	45+40.00		49+96.25	462.5'
LOCATION 2	NB	1	50+08.75		50+27.50	25'
	NB	1	379+68.50		379+93.50	25'
LOCATION 3	NB	1	380+06.00		383+18.00	312.5'
	SB	2	379+76.50		379+95.25	25'
LOCATION 4	SB	2	380+07.75		380+26.50	25'
	NB	1	392+94.00		393+25.25	37.5'
LOCATION 3	NB	1	393+37.75		393+81.50	50'
	SB	2	393+66.13		393+84.25	25'
LOCATION 4	SB	2	393+96.75		394+15.50	25'
	SB	2	69+79.00		69+91.50	12.5'
	SB	2	70+04.00		70+29.00	25'

TEMPORARY TRAFFIC CONTROL										
LOCATION	STRUTURE NUMBER	STATION	TO	STATION	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL (EACH) X7830050	PAVEMENT MARKING REMOVAL WATER BLASTING (SQ FT) X0327980	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT) X7030005	REPLACEMENT REFLECTOR (EACH) 78100300	PAVEMENT MARKING TAPE, TYPE IV -4" (FOOT) 70300904	FILL EXISTING RUMBLE STRIP (FOOT) X0326650
LOCATION 1	SN 049-0228	36+62.00		54+17.00	16	480	1804	16	5412	1147
LOCATION 2	SN 049-2016	370+01.00		390+80.00	30	1637	2799.8	30	8399.3	3733
LOCATION 3	SN 049-2015	390+80.00		407+26.00	35	1447	2344.6	35	7033.8	3075
LOCATION 4	SN 049-0575	61+60.00		78+95.00	42	1341	2381.3	42	7143.8	3174

STRONG POST GUARDRAIL ATTACHED TO CULVERT						
LOCATION	BOUND	STAGE	STATION	TO	STATION	LENGTH
LOCATION 1	SB	3	49+98.50		50+11.00	12.5'
	NB	1	49+96.25		50+08.75	12.5'
LOCATION 2	SB	2	379+95.25		380+07.75	12.5'
LOCATION 3	SB	2	393+84.25		393+96.75	12.5'
	NB	1	393+25.25		393+37.75	12.5'

TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
LOCATION	STRUTURE NUMBER	STATION	OFFSET	DIAMETER
LOCATION 1	SN 049-0228	STA. 46+29	76' LT	6
		STA. 46+34	79' LT	6
		STA. 48+91	78' LT	14
		STA. 50+04	72' RT	12
		STA. 50+17	80' LT	9
LOCATION 4	SN 049-0575	STA. 51+54	84' LT	10
		STA. 51+79	80' LT	12
		STA. 69+55	80' RT	15

LONG-SPAN GUARDRAIL OVER CULVERT						
LOCATION	BOUND	STAGE	STATION	TO	STATION	LENGTH
LOCATION 2	SB	2	379+93.50		380+06.00	12.5'
LOCATION 4	SB	2	69+91.50		70+04.00	12.5'

TREE REMOVAL (OVER 15 UNITS DIAMETER)				
LOCATION	STRUTURE NUMBER	STATION	OFFSET	DIAMETER
LOCATION 1	SN 049-0228	STA. 45+28	70' RT	28
		STA. 46+08	76' LT	30
		STA. 46+09	76' LT	24
		STA. 46+52	78' LT	24
		STA. 47+98	81' LT	24
		STA. 49+91	81' RT	17
		STA. 49+86	79' LT	17
		STA. 50+13	81' RT	23
		STA. 50+65	81' LT	24
		STA. 51+80	81' LT	16
		LOCATION 4	SN 049-0575	STA. 69+76

TRAFFIC BARRIER TERMINAL, TYPE 2						
LOCATION	BOUND	STAGE	STATION	TO	STATION	NUMBER
LOCATION 1	NB	1	50+27.50		50+40.00	1
	SB	3	49+61.00		49+73.50	1
LOCATION 2	NB	1	383+18.00		383+30.50	1
	SB	2	379+64.00		379+76.50	1
LOCATION 3	NB	1	393+81.50		393+94.00	1
	SB	2	393+56.42		393+94.00	1
LOCATION 4	NB	2	68+04.00		68+16.50	1

SHOULDER RUMBLE STRIPS, 16 INCH							
LOCATION	BOUND	STAGE	STATION	TO	STATION	OFFSET	SQ. YD.
LOCATION 1	SB	1	48+40.00		55+40.00	20 TO 34 RT	466.67
LOCATION 1	NB	1	47+64.00		51+75.00	46 TO 73 RT	182.67
LOCATION 1	NB	2	46+61.00		54+17.00	14 LT	924.00
LOCATION 2/3	NB	1	372+26.00		407+26.00	14 RT	5055.56
LOCATION 2/3	SB	1	370+01.00		403+09.00	14 LT	4778.22
LOCATION 2	SB	2	370+01.00		387+46.00	14 RT	2132.78
LOCATION 4	SB	1	64+30.00		78+70.00	14 LT	1280.00
LOCATION 4	SB	2	61+60.00		78+94.00	41 LT	2506.11

FLUSH INLET BOX FOR MEDIAN				
LOCATION	BOUND	STAGE	STATION	OFFSET
LOCATION 1	NB	2	50+32.42	5.45' RT

GUARDRAIL REMOVAL						
LOCATION	BOUND	STAGE	STATION	TO	STATION	LENGTH
LOCATION 1	NB	1	49+12.00		50+40.50	128.5
LOCATION 1	SB	3	49+84.00		50+49.00	65
LOCATION 2	NB	1	379+87.00		380+26.50	39.5
LOCATION 2	SB	2	379+68.50		380+08.00	39.5
LOCATION 3	NB	1	393+76.00		394+15.50	39.5
LOCATION 3	SB	2	392+94.00		393+33.50	39.5
LOCATION 4	NB	2	68+04.00		70+31.00	227
LOCATION 4	SB	2	69+79.00		70+29.00	50

MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID EACH				
LOCATION	BOUND	STAGE	STATION	OFFSET
LOCATION 1	NB	3	50+32.52	70.02' RT

MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID EACH				
LOCATION	BOUND	STAGE	STATION	OFFSET
LOCATION 4	SB	1	70+00.25	1.94' LT

MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID EACH				
LOCATION	BOUND	STAGE	STATION	OFFSET
LOCATION 4	SB	2	70+00.25	48.32' LT

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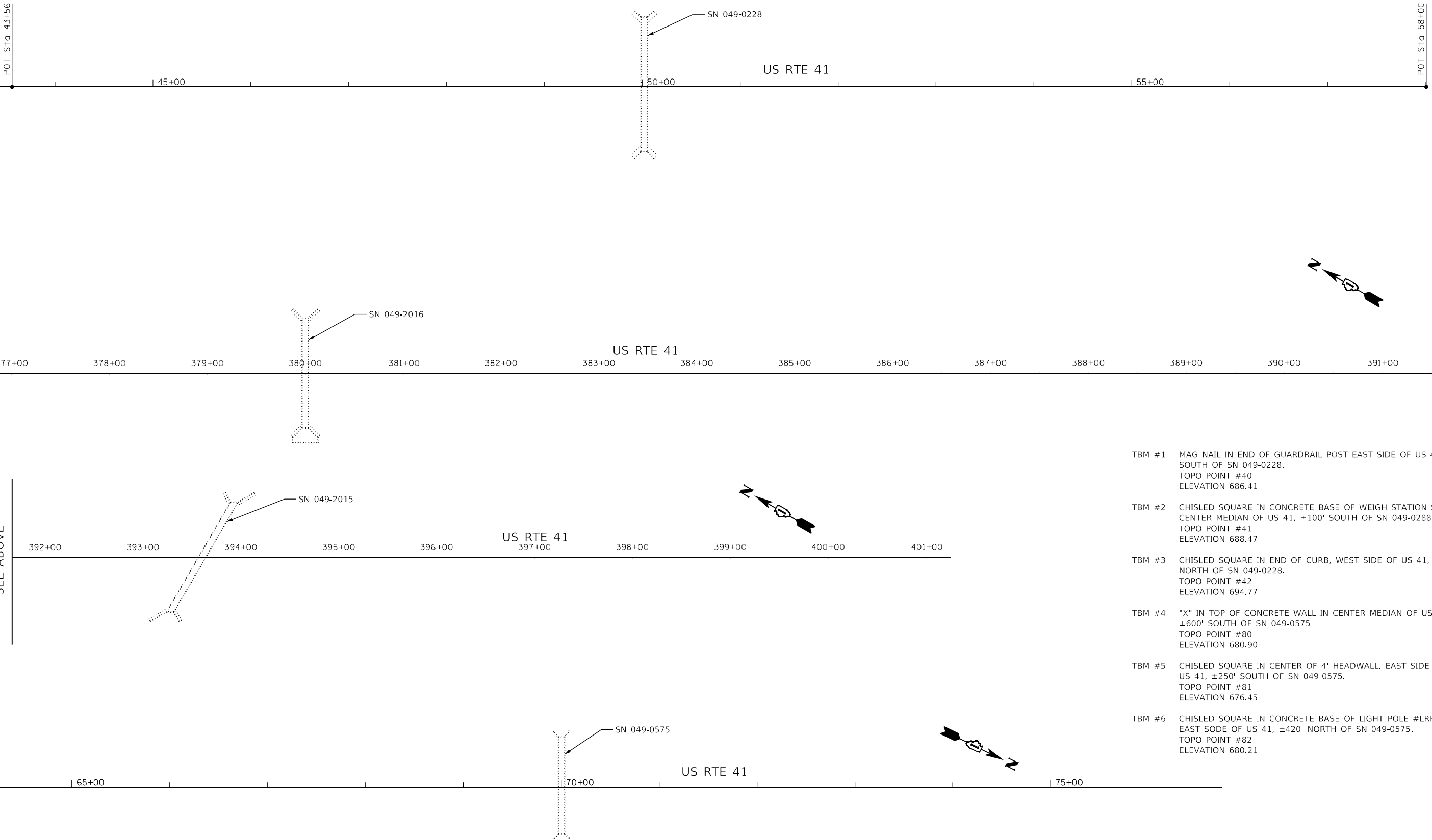
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PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
US-41 CULVERTS**

SCALE: 80,0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	14
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



- TBM #1 MAG NAIL IN END OF GUARDRAIL POST EAST SIDE OF US 41, ±650' SOUTH OF SN 049-0228.
TOPO POINT #40
ELEVATION 686.41
- TBM #2 CHISLED SQUARE IN CONCRETE BASE OF WEIGH STATION SIGN IN CENTER MEDIAN OF US 41, ±100' SOUTH OF SN 049-0228.
TOPO POINT #41
ELEVATION 688.47
- TBM #3 CHISLED SQUARE IN END OF CURB, WEST SIDE OF US 41, ±350' NORTH OF SN 049-0228.
TOPO POINT #42
ELEVATION 694.77
- TBM #4 "X" IN TOP OF CONCRETE WALL IN CENTER MEDIAN OF US 41, ±600' SOUTH OF SN 049-0575
TOPO POINT #80
ELEVATION 680.90
- TBM #5 CHISLED SQUARE IN CENTER OF 4' HEADWALL, EAST SIDE OF US 41, ±250' SOUTH OF SN 049-0575.
TOPO POINT #81
ELEVATION 676.45
- TBM #6 CHISLED SQUARE IN CONCRETE BASE OF LIGHT POLE #LRF7, EAST SODE OF US 41, ±420' NORTH OF SN 049-0575.
TOPO POINT #82
ELEVATION 680.21

NOTE: THE CENTERLINE OF CONSTRUCTION AS SHOWN ON THE ALIGNMENT AND TIES PLAN SHEETS IS OFFSET 2" MINIMUM AND VARIES FROM THE CENTERLINE OF ROW SHOWN ON THE PLAT OF HIGHWAYS.

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR RES\Work Order\18- 62126\CA00\CA00 Sheets\Civil\62126-shr-ATB.dgn

MATCH LINE STA 391+00
SEE ABOVE

MATCH LINE STA 391+00
SEE BELOW



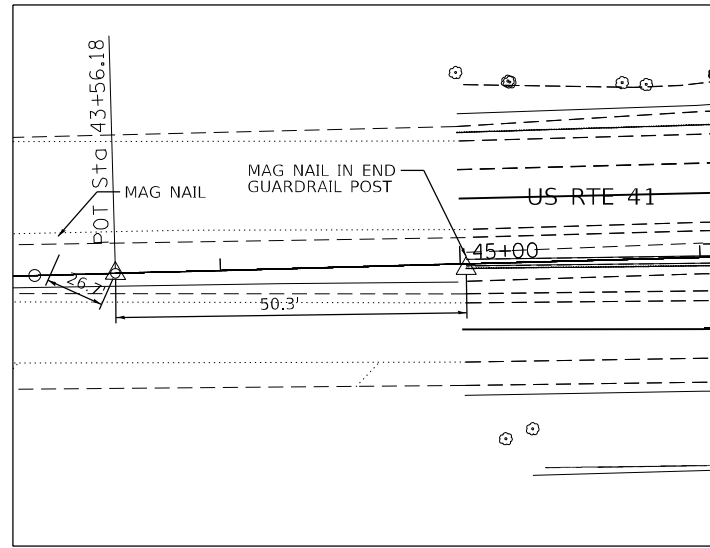
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS
US RTE 41**

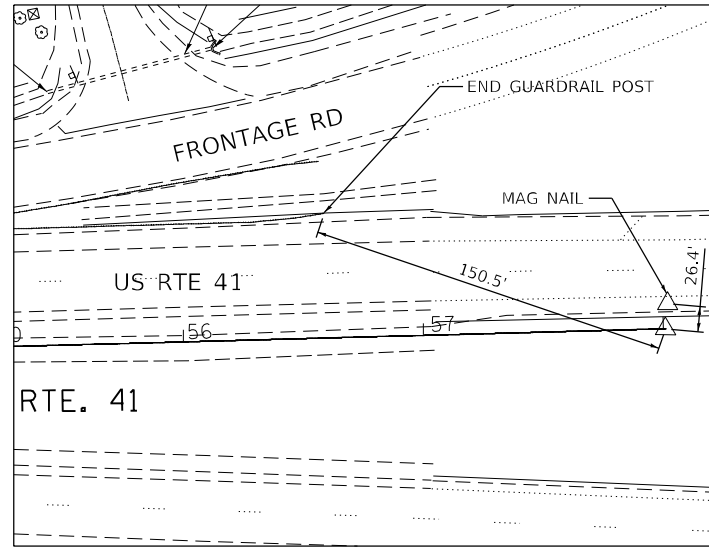
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	15
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				



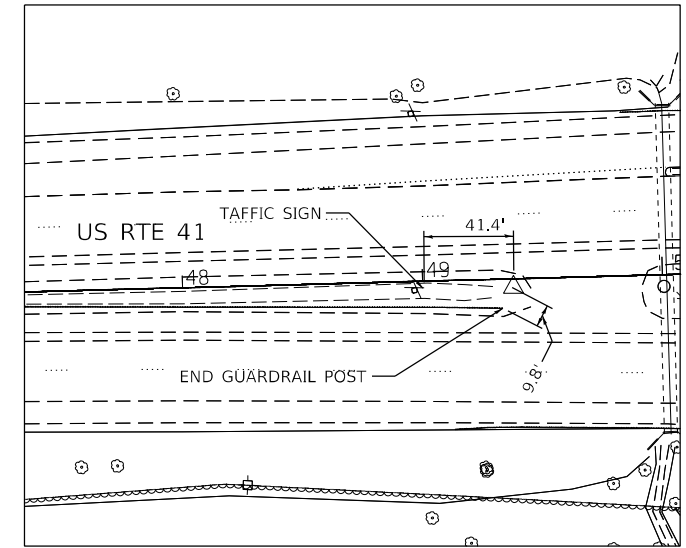
C.P. #53

IRON ROD
WITH CAP
N=2114523.23
E=1088488.88
ELEV=681.98



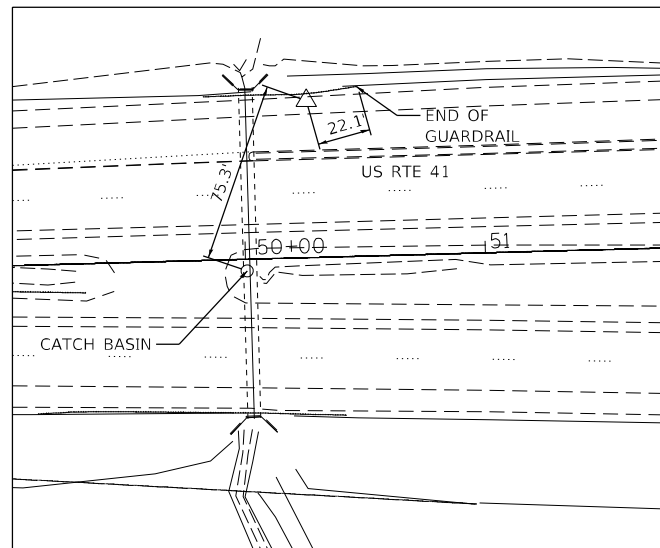
C.P. #53

IRON ROD
WITH CAP
N=2115965.29
E=1088400.08
ELEV=697.19



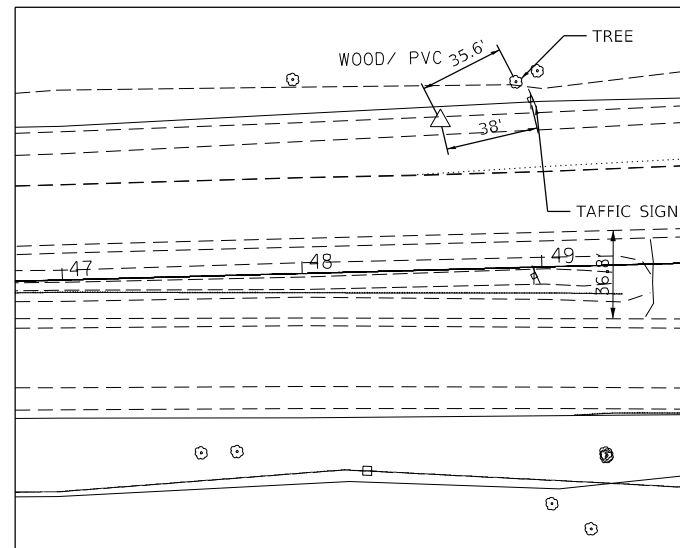
C.P. #1

IRON ROD
N=2115104.08
E=1088456.69
ELEV=689.06



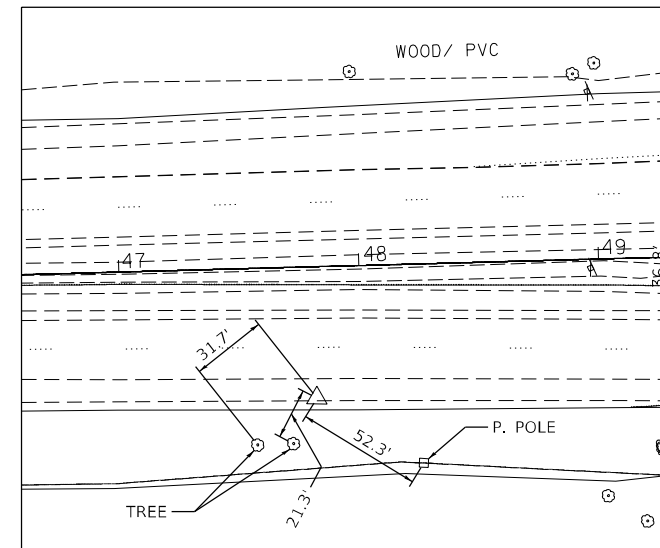
C.P. #3

MAG NAIL
N=2115188.90
E=1088382.35
ELEV=689.84



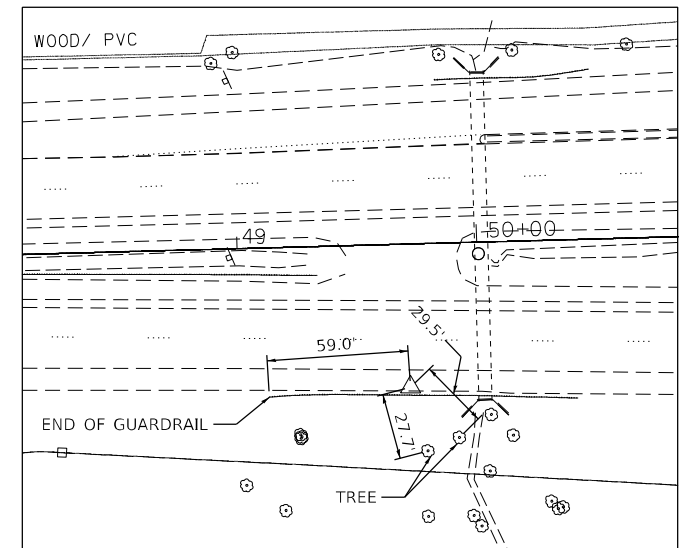
C.P. #4

MAG NAIL
N=2115021.67
E=1088396.05
ELEV=687.94



C.P. #7

MAG NAIL
N=2114950.76
E=1088517.43
ELEV=688.33



C.P. #8

MAG NAIL
N=2115140.40
E=1088510.62
ELEV=690.91

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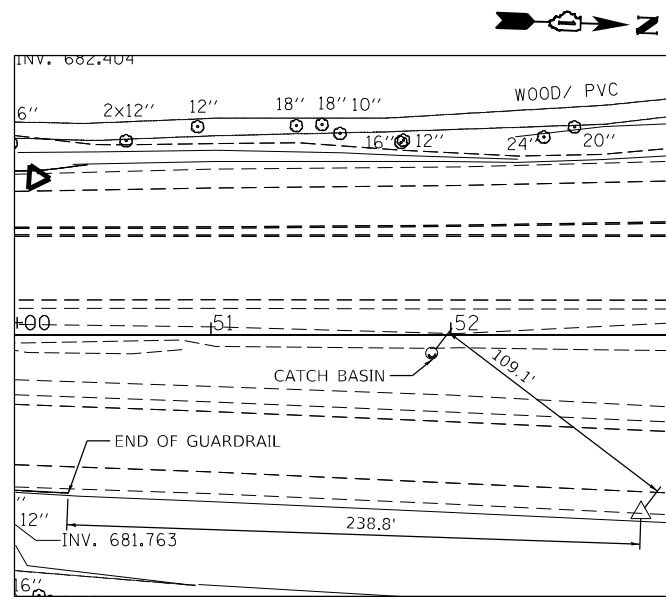
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	DATE - 08/14/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

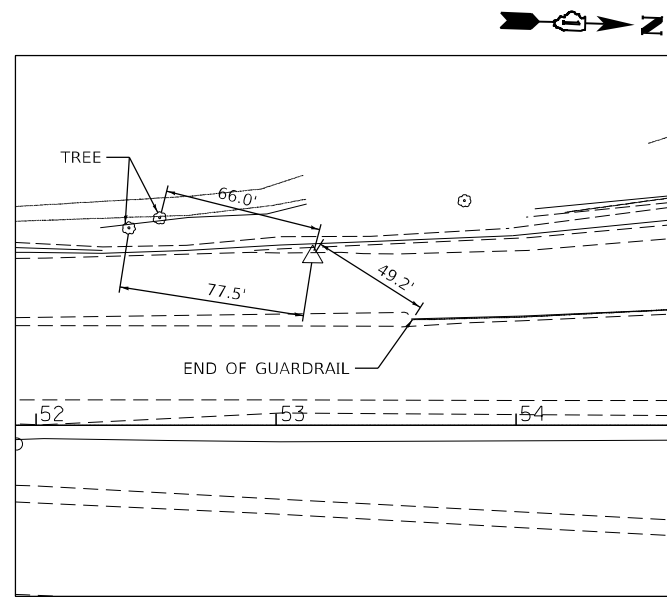
ALIGNMENT, TIES, AND BENCHMARKS
US RTE 41

SCALE: SHEET OF SHEETS STA. TO STA.

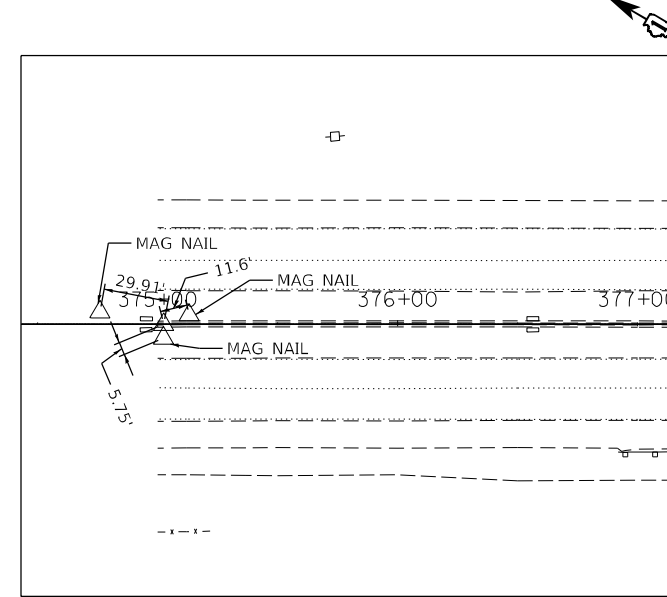
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	16
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	



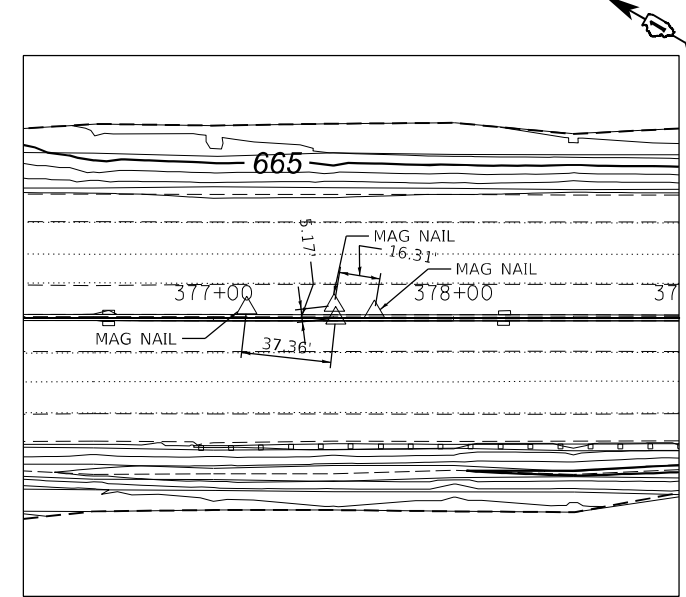
C.P. #9
MAG NAIL
N=2115449.20
E=1088505.07
ELEV.=697.29



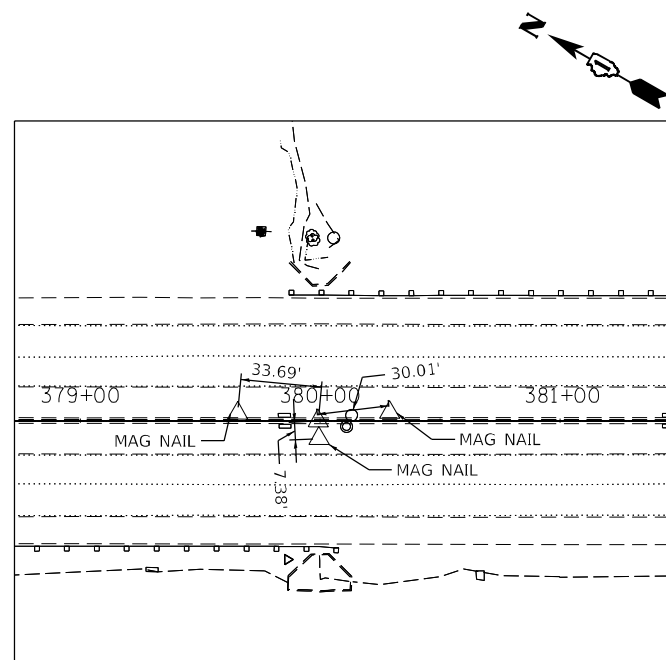
C.P. #10
MAG NAIL
N=2115476.16
E=1088359.70
ELEV.=693.48



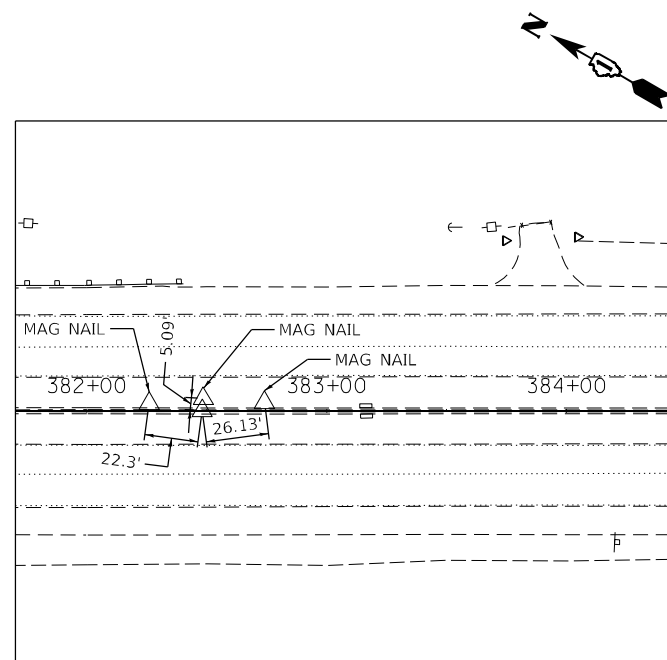
C.P. #602
CUTCROSS AT
ALIGNMENT
N=2088976.19
E=1092424.16
ELEV.=670.61



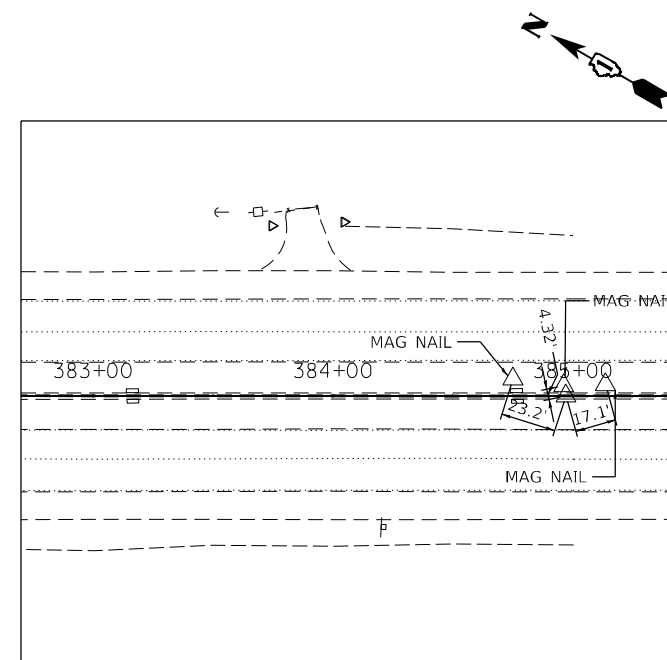
C.P. #601
CUTCROSS ON TOP
OF BARRIER WALL
N=2088761.13
E=1092549.10
ELEV.=670.86



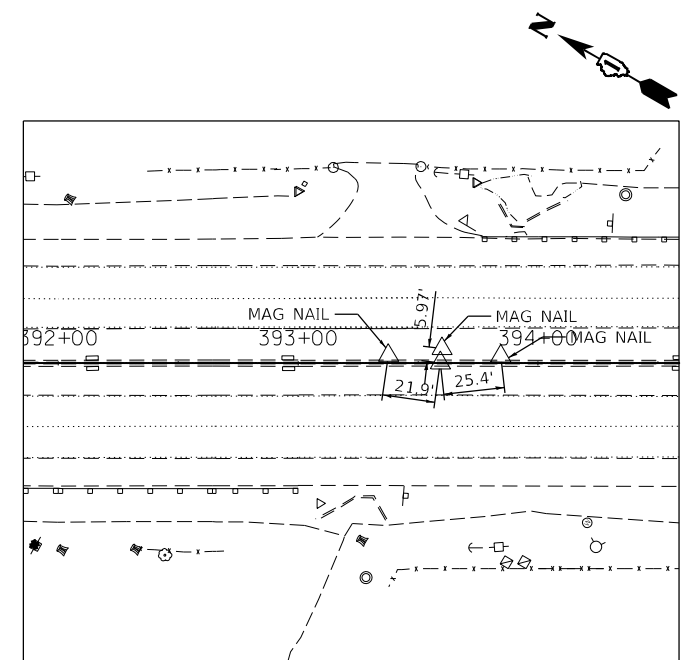
C.P. #600
CUTCROSS ON TOP
OF BARRIER WALL
N=2088546.82
E=1092673.77
ELEV.=670.85



C.P. #603
CUTCROSS ON TOP
OF BARRIER WALL
N=2088331.59
E=1092799.06
ELEV.=671.10



C.P. #604
CUTCROSS ON TOP
OF BARRIER WALL
N=2088116.40
E=1092924.19
ELEV.=671.16



C.P. #605
CUTCROSS ON TOP
OF BARRIER WALL
N=2087371.13
E=1093357.75
ELEV.=671.95

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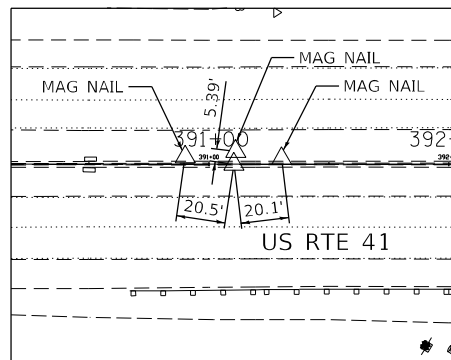
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

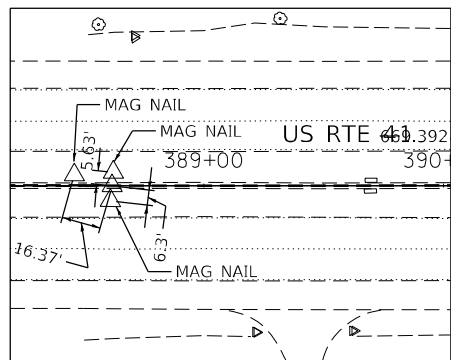
ALIGNMENT, TIES, AND BENCHMARKS
US RTE 41

SCALE: SHEET OF SHEETS STA. TO STA.

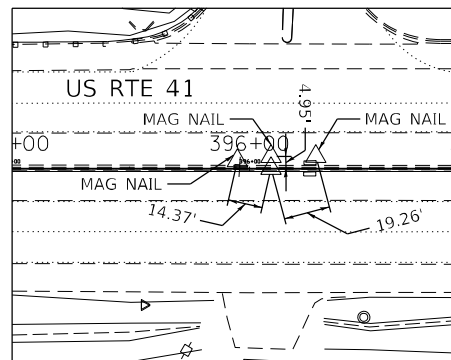
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349	2019-049-T	LAKE	139	17
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				



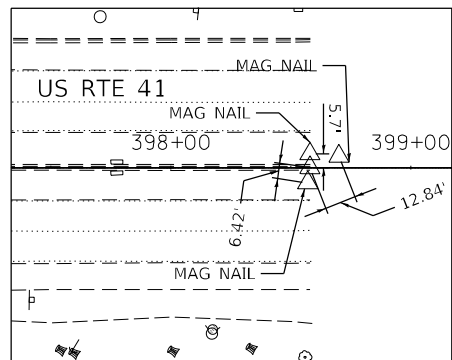
C.P. #606
CUTCROSS ON TOP OF BARRIER WALL
N=2114523.23
E=1088488.88
ELEV.=681.98



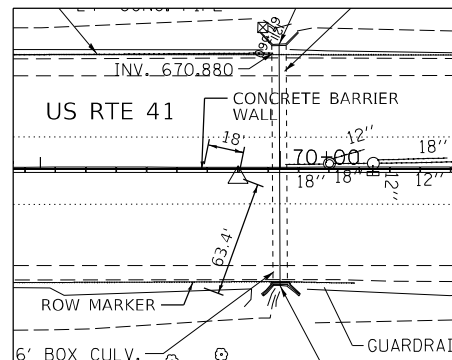
C.P. #607
CUTCROSS ON TOP OF BARRIER WALL
N=2087801.07
E=1093107.50
ELEV.=671.33



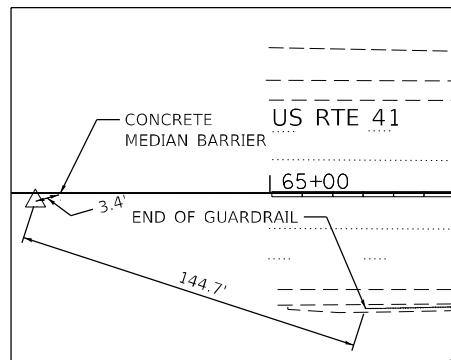
C.P. #608
CUTCROSS ON TOP OF BARRIER WALL
N=2087155.33
E=1093483.21
ELEV.=672.15



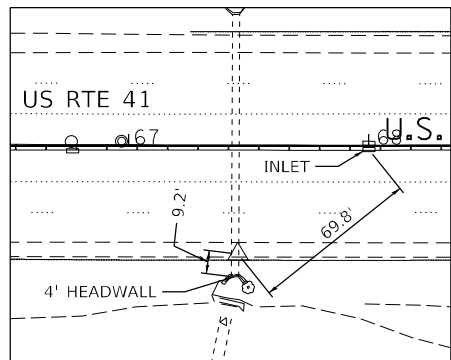
C.P. #609
CUTCROSS ON TOP OF BARRIER WALL
N=2086940.04
E=1093608.32
ELEV.=673.03



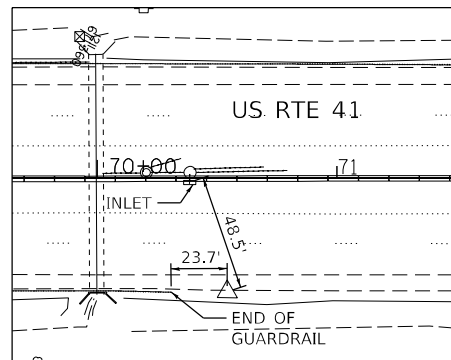
C.P. #20
MAG NAIL IN MEDIAN
N=2026769.83
E=1114237.01
ELEV.=679.04



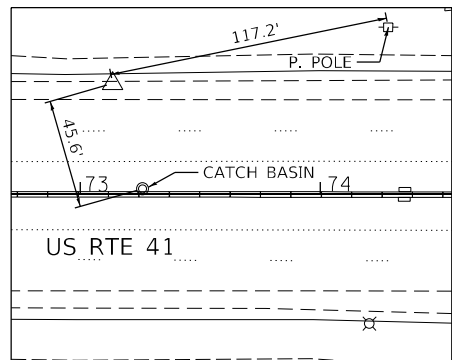
C.P. #21
MAG NAIL IN MEDIAN
N=2026248.79
E=1114492.08
ELEV.=678.42



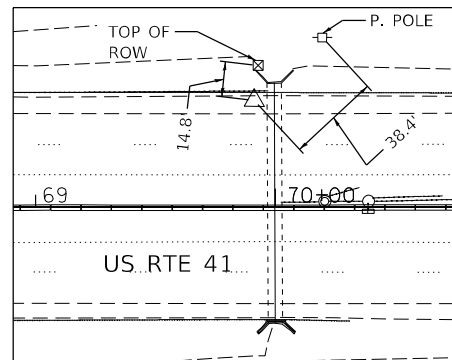
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MAG NAIL IN SHOULDER
N=2026575.38
E=1114378.53
ELEV.=679.31



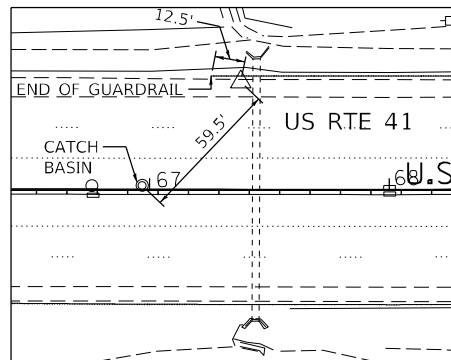
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MAG NAIL IN SHOULDER
N=2026853.71
E=1114244.80
ELEV.=679.10



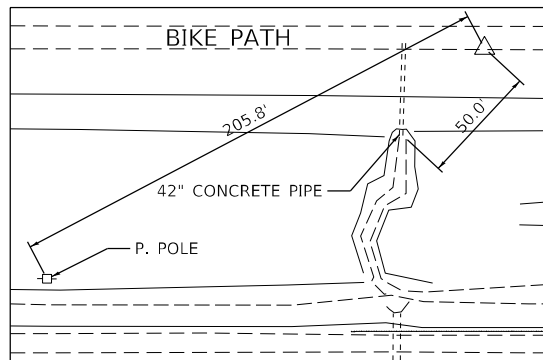
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MAG NAIL IN SHOULDER
N=2027045.30
E=1114046.85
ELEV.=680.34



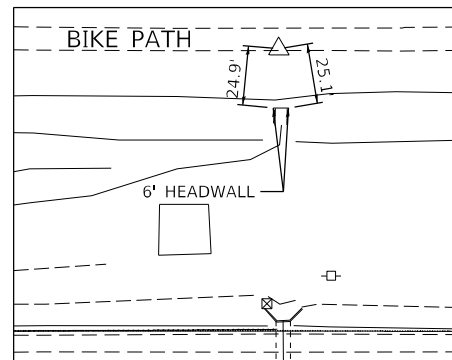
C.P. #25
MAG NAIL IN SHOULDER
N=2026756.55
E=1114190.14
ELEV.=679.02



C.P. #26
MAG NAIL IN SHOULDER
N=2026529.04
E=1114300.83
ELEV.=678.30



C.P. #27
MAG NAIL IN BIKE PATH
N=2026514.70
E=1114173.69
ELEV.=682.35



C.P. #28
MAG NAIL IN BIKE PATH
N=2026709.22
E=1114078.76
ELEV.=683.26

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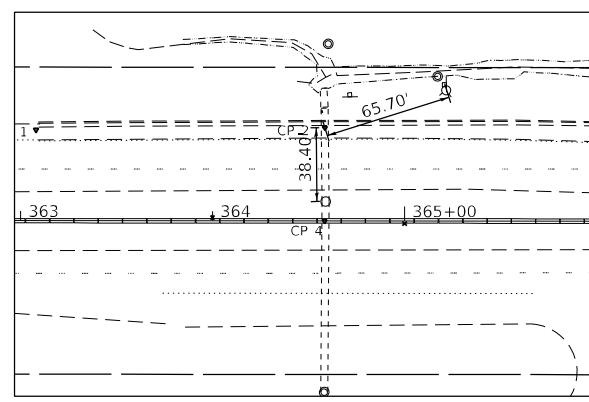
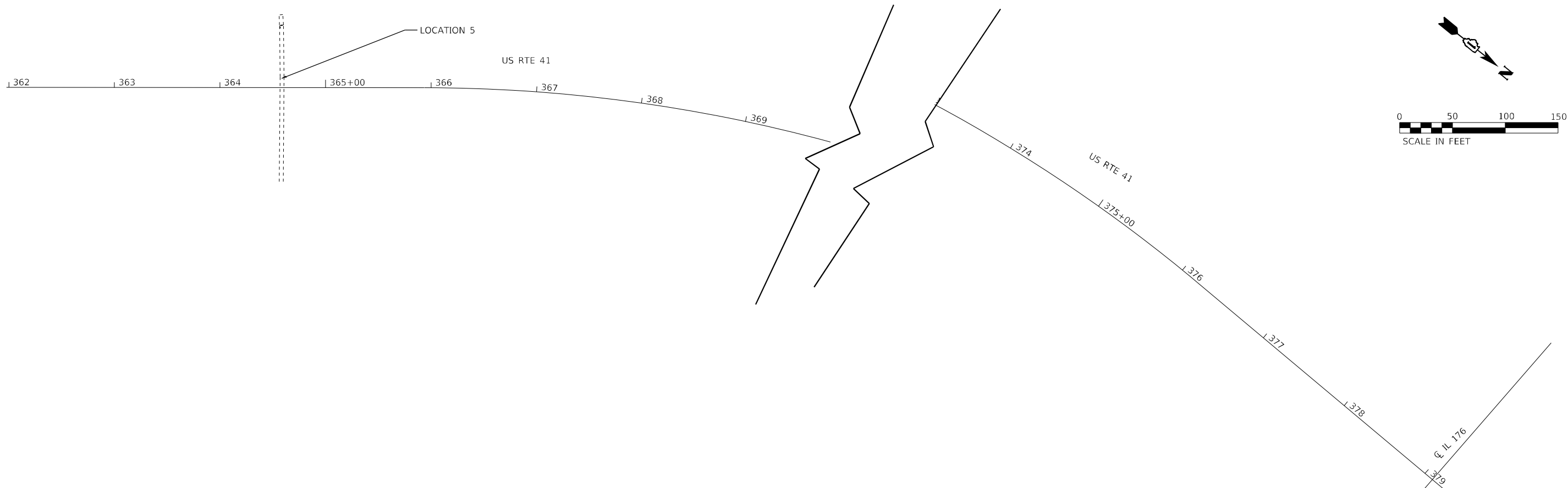


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	DRAWN - IH	REVISED -
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS			
US RTE 41			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

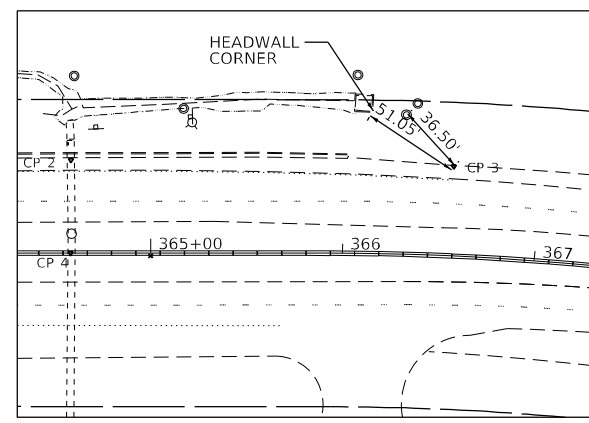
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	18
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				



C.P. #2

MAG NAIL
ABOUT CULVERT

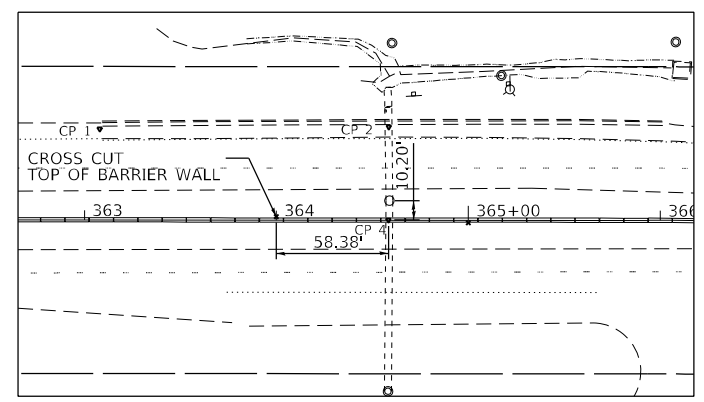
N= 2043324.86
E= 110945.47
ELEV=672.32



C.P. #3

MAG NAIL
IN SHOULDER

N= 2043597.32
E= 1109721.86
ELEV=674.17



C.P. #4

CROSS CUT
TOP OF BARRIER WALL

N= 2043471.33
E= 1109883.14
ELEV=674.33

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USER NAME = mokrent	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
LOCATION 5

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-149-T	LAKE	139	19
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN ON THE INDEX OF SHEETS AND 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. 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 THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
3. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 100 FEET CENTER TO CENTER IN TANGENTS, 50 FEET CENTER TO CENTER IN TAPERS, AND 25 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.
4. 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 THE INITIAL PLACEMENT AND A ONE-TIME REPLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE INITIAL REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
5. WORK ZONE SPEED LIMIT SHALL BE 45 MPH ON US ROUTE 41.
6. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
7. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 12' THRU-LANE FOR BOTH NB AND SB TRAFFIC UNLESS OTHERWISE SPECIFIED.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
11. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL AS SHOWN IN PLANS.
12. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, IF THEY WERE REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION. THE COST TO REPAIR ANY DAMAGES WITH BE BORNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.
13. TEMPORARY CONCRETE BARRIER WALL SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WHERE A 3.5 FOOT CLEAR ZONE FREE FROM DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES CANNOT BE PROVIDED BEHIND THE WALL. LIMITS OF PINNING ARE SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS.
14. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.
15. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
16. VEHICULAR ACCESS TO LOCAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
17. SHOULDERS SHALL BE RECONSTRUCTED AT THE LOCATIONS AS SHOWN IN THE PLANS PRIOR TO STAGING TRAFFIC.

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG US ROUTE 41 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING LANE SHIFTS ONTO EXISTING SHOULDERS, SHORT TERM AND LONG TERM SHOULDER AND LANE CLOSURES, PER DISTRICT ONE STANDARDS TC-09, TC-10, TC-12, TC-13, TC-14, TC -16, TC-17, TC-22 TC-26, HIGHWAY STANDARDS 701006, 701101, 701106, 701301, 701311, 701411, 701421, 701422, 701423, 701426, 701501, 701601, 701701 AND 701901.

SEQUENCE OF CONSTRUCTION: STRUCTURAL AND ROADWAY IMPROVEMENTS

LOCATION 1 - US ROUTE 41 AT CULVERT 049-0228 -STAGE 1

1. RECONSTRUCT EXISTING RIGHT SHOULDER OF SOUTHBOUND FRONTAGE ROAD AND NORTHBOUND MEDIAN SHOULDER UTILIZING IDOT STANDARD 701421 AT LOCATIONS SHOWN IN THE PLANS.
2. USE SHORT TERM LANE CLOSURE (LESS THAN 72 HOURS) TO CLOSE RIGHT LANE OF SOUTHBOUND 41 PER STANDARD 701422. USE HIGHWAY STANDARD 701423 FOR SHORT TERM TRAFFIC SHIFT TO SHIFT FRONTAGE ROAD TRAFFIC TO THE WEST. REMOVE EXISTING GORE LANDSCAPING AND CURB & GUTTER AND INSTALL ASPHALT PAVED GORE AND TEMPORARY GORE STRIPING.

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC (CONTINUED)

3. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS AND IN ACCORDANCE WITH STANDARD 701423 TO CLOSE THE RIGHT NORTHBOUND LANE AND SHIFT TRAFFIC ONTO LEFT SHOULDER.
4. COMPLETE EAST SIDE CULVERT REPAIRS, INSTALL PROPOSED SEWER HALF WAY ACROSS RIGHT LANE, PATCHING, SHOULDER RECONSTRUCTION, GUARDRAIL, AND LANDSCAPING. PRIOR TO REMOVING TEMPORARY CONCRETE BARRIER WALL ANY OPEN HOLES IN THE ROADWAY SHALL BE FILLED OR PLATED FOR SAFTEY. THE COST FOR PLATING OR FILLING OF OPEN HOLES SHALL BE INCLUDED IN THE LUMP SUM FOR ITEM X7010216 TRAFFIC CONTROL AND PROTECTION SPECIAL.

LOCATION 1 - US ROUTE 41 AT CULVERT 049-0228 -STAGE 2

1. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS AND IN ACCORDANCE WITH STANDARD 701423 TO CLOSE THE LEFT NORTHBOUND LANE AND SHIFT TRAFFIC ONTO RIGHT SHOULDER. RELOCATE TEMPORARY CONCRETE BARRIER FROM STAGE 1.
2. INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH STANDARD 701421 TO CLOSE THE LEFT SOUTHBOUND LANE ON A DAILY BASIS AS NEEDED. DRUMS SHOULD BE USED TO CLOSE SHOULDER WHEN LANE CLOSURE IS NOT IN USE.
3. COMPLETE PROPOSED SEWER FROM STAGE 1 END POINT TO MEDIAN AND COMPLETE MEDIAN DRAINAGE WORK.

LOCATION 1 - US ROUTE 41 AT CULVERT 049-0228 -STAGE 3

1. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS AND MERGE FRONTAGE ROAD TRAFFIC INTO SOUTHBOUND 41 LANES USING STANDARD 701411.
2. RELOCATE TEMPORARY CONCRETE BARRIER WALL FROM NORTHBOUND TO SOUTHBOUND US ROUTE 41
3. INSTALL PERMANENT STRIPING NORTHBOUND TO RESTORE TO NORMAL TRAFFIC CONFIGURATION.
4. COMPLETE WEST SIDE CULVERT WORK, GUARDRAILS AND LANDSCAPING.
5. REMOVE CONCRETE BARRIER AND INSTALL FINAL PAVEMENT MARKINGS IN PAVED GORE AREA USING STANDARD 701421 AND 701426 TO RESTORE SOUTHBOUND TRAFFIC TO NORMAL CONFIGURATION.

LOCATIONS 2 & 3 - US ROUTE 41 AT CULVERTS 049-2015 & 049-2016 - STAGE 1

1. RECONSTRUCT EXISTING SOUTHBOUND AND NORTHBOUND MEDIAN SHOULDERS, INSTALL TEMPORARY GLARE SCREEN AND BARRIER WALL DELINEATORS, TYPE C ON MEDIAN WALL UTILIZING IDOT STANDARD 701421 AS SHOWN IN THE PLANS.
2. INSTALL TRAFFIC CONTROL DEVICES FOR US ROUTE 41 NORTHBOUND AS SHOWN IN MOT PLANS WHICH INCLUDES SHIFTING THE NORTHBOUND TRAFFIC TO THE MEDIAN.
3. INSTALL TEMPORARY CONCRETE BARRIER AS SHOWN NORTHBOUND AND COMPLETE THE EAST SIDE CULVERT WORK, GUARDRAILS AND LANDSCAPING FOR STRUCTURES 2015 & 2016.

LOCATIONS 2 & 3 - US ROUTE 41 AT CULVERTS 049-2015 & 049-2016 - STAGE 2

1. INSTALL TRAFFIC CONTROL DEVICES FOR US ROUTE 41 SOUTHBOUND AS SHOWN IN MOT PLANS WHICH INCLUDES SHIFTING THE SOUTHBOUND TRAFFIC TO THE MEDIAN. RELOCATE TEMPORARY CONCRETE BARRIER WALL FROM NORTHBOUND TO SOUTHBOUND.
2. INSTALL PERMANENT PAVEMENT MARKINGS NORTHBOUND TO RESTORE TRAFFIC TO NORMAL TRAFFIC CONFIGURATION USING STANDARDS 701421 AND 701426.
3. COMPLETE ALL SOUTHBOUND STAGE 2 CULVERT REPAIRS AS SHOWN, RECONSTRUCT OUTSIDE SHOULDER AND COMPLETE ALL GUARDRAIL AND LANDSCAPING ITEMS.

LOCATION 2 - US ROUTE 41 AT CULVERT 049-2016 - STAGE 3

1. INSTALL TRAFFIC CONTROL DEVICES FOR US ROUTE 41 SOUTHBOUND AS SHOWN IN MOT PLANS WHICH INCLUDES SHIFTING THE SOUTHBOUND TRAFFIC TO THE OUTSIDE SHOULDER. INSTALL TEMPORARY CONCRETE BARRIER WALL AS SHOWN.
2. COMPLETE REMAINING SOUTHBOUND CULVERT REPAIRS.
3. REMOVE ALL TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKINGS TO RESTORE SOUTHBOUND TRAFFIC TO EXISTING CONFIGURATION USING STANDARDS 701421 AND 701426.

LOCATION 4 - US ROUTE 41 AT CULVERT 049-0575 - STAGE 1

1. RECONSTRUCT EXISTING SOUTHBOUND MEDIAN AND OUTSIDE SHOULDERS UTILIZING IDOT STANDARD 701421 AT LOCATIONS SHOWN IN THE PLANS
2. INSTALL TRAFFIC CONTROL DEVICES FOR US ROUTE 41 NORTHBOUND AND SOUTHBOUND STAGE 1 AS SHOWN IN MOT PLANS WHICH INCLUDES SHIFTING THE SOUTHBOUND TRAFFIC TO THE WEST AND CLOSING THE NB MEDIAN SHOULDER TO PERFORM THE WORK IN THE MEDIAN
3. COMPLETE ALL MEDIAN WORK.

LOCATION 4 - US ROUTE 41 AT CULVERT 049-0575 - STAGE 2

1. REMOVE BARRIER WALL FROM STAGE 1 SOUTHBOUND.
2. INSTALL TRAFFIC CONTROL DEVICES FOR SOUTHBOUND US ROUTE 41 STAGE 2 AS SHOWN IN THE MOT PLANS WHICH INCLUDES SHIFTING TRAFFIC TO THE EAST. RELOCATE NORTHBOUND TEMPORARY CONCRETE BARRIER WALL TO SOUTHBOUND, INSTALL ADDITIONAL WALL AS NEEDED.
3. UTILIZE DAILY LANE CLOSURES TO CLOSE NORTHBOUND RIGHT LANE TO COMPLETE CULVERT WALL REMOVALS, FILLING OF CULVERT, REGRADING AND GUARDRAIL ITEMS. EXISTING GUARDRAIL IS TO REMAIN IN PLACE UNTIL AREA IS SAFELY TRAVERSABLE.
4. COMPLETE SOUTHBOUND OUTSIDE SHOULDER DRAINAGE WORK AND GUARDRAIL.
5. AFTER COMPLETION OF WORK, REMOVE SHIFT AND RESTORE PERMANENT PAVEMENT MARKINGS USING STANDARDS 701421 AND 701426.

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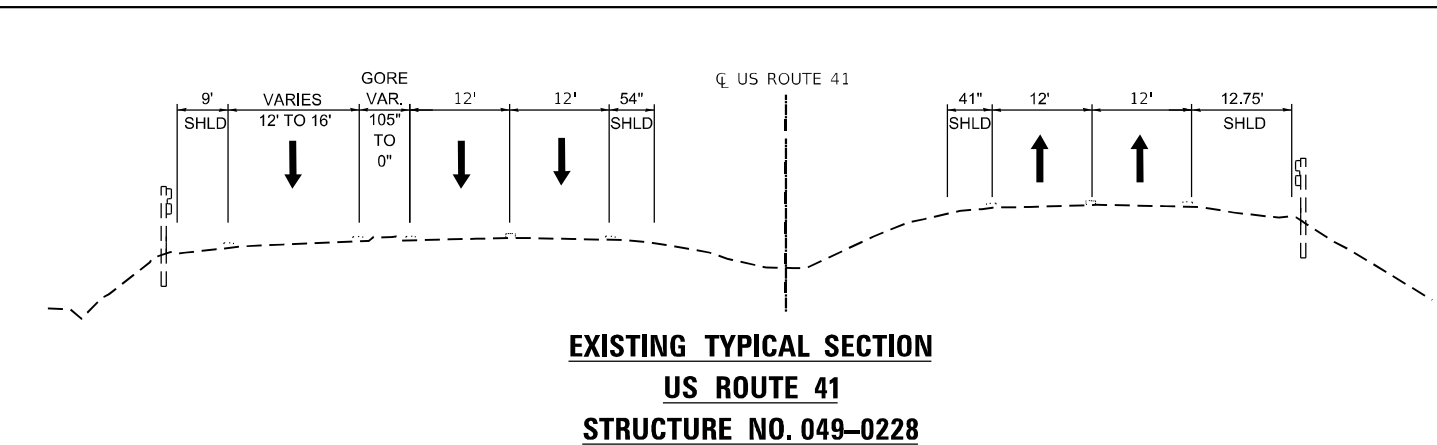
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

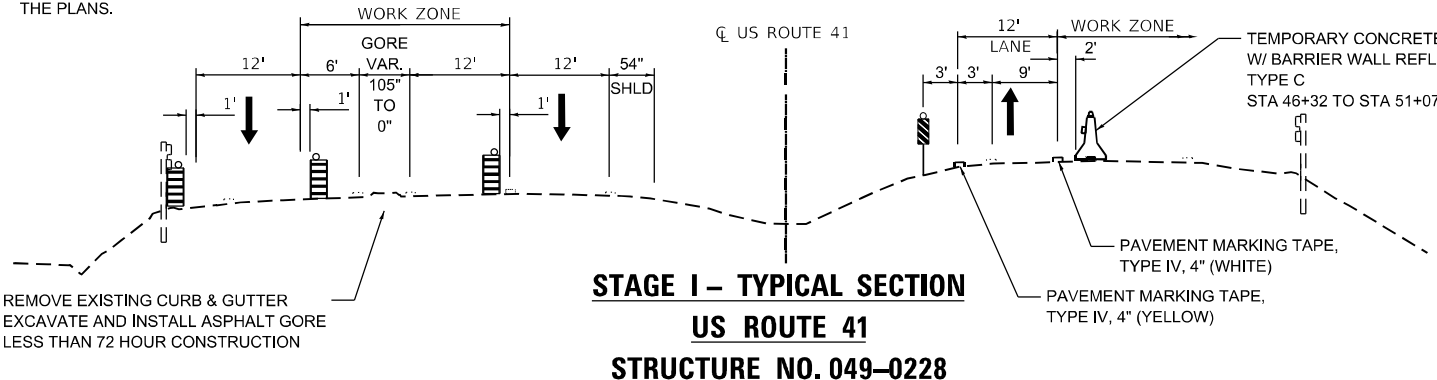
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349	2019-049-T	LAKE	139	20
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

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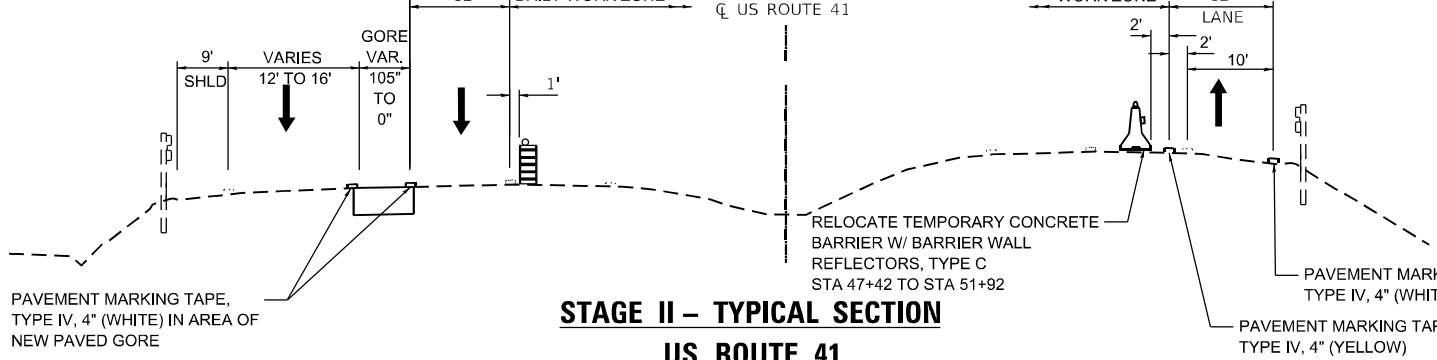
**EXISTING TYPICAL SECTION
US ROUTE 41
STRUCTURE NO. 049-0228**

USE SHORT TERM LANE CLOSURE TO CLOSE SOUTHBOUND RIGHT LANE AND SHIFT RAMP TRAFFIC TO THE WEST AS SHOWN IN THE PLANS.

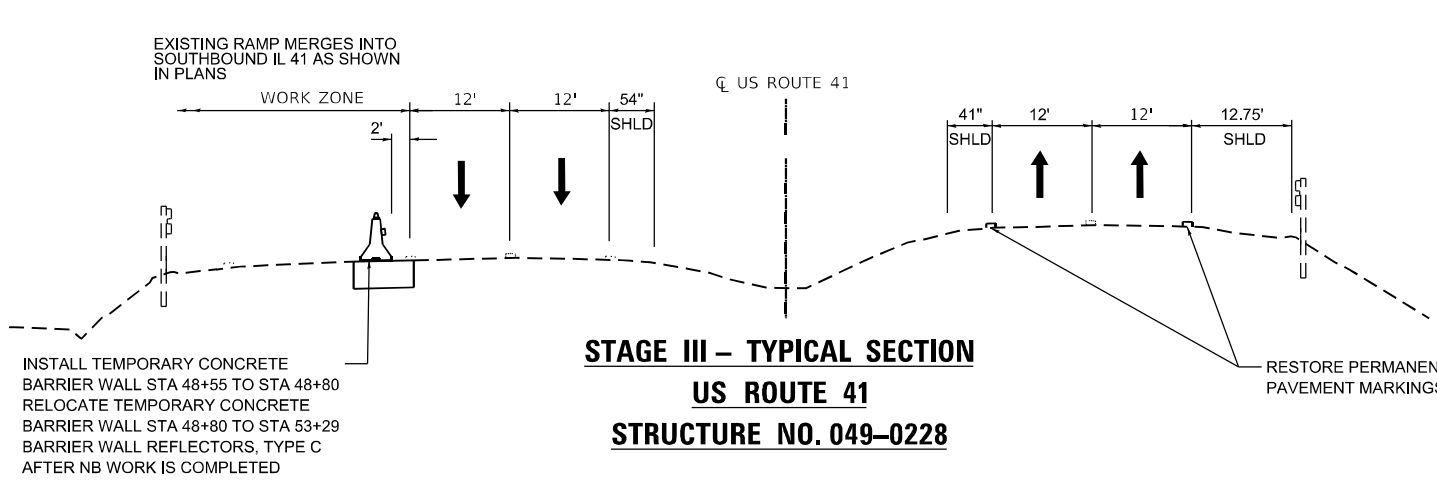


**STAGE I - TYPICAL SECTION
US ROUTE 41
STRUCTURE NO. 049-0228**

REMOVE EXISTING CURB & GUTTER EXCAVATE AND INSTALL ASPHALT GORE LESS THAN 72 HOUR CONSTRUCTION

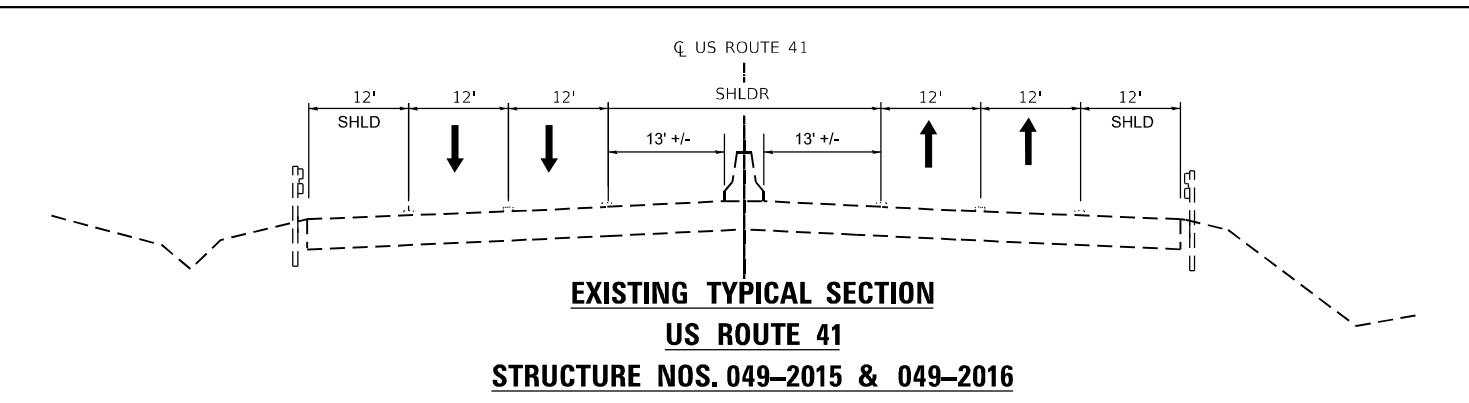


**STAGE II - TYPICAL SECTION
US ROUTE 41
STRUCTURE NO. 049-0228**

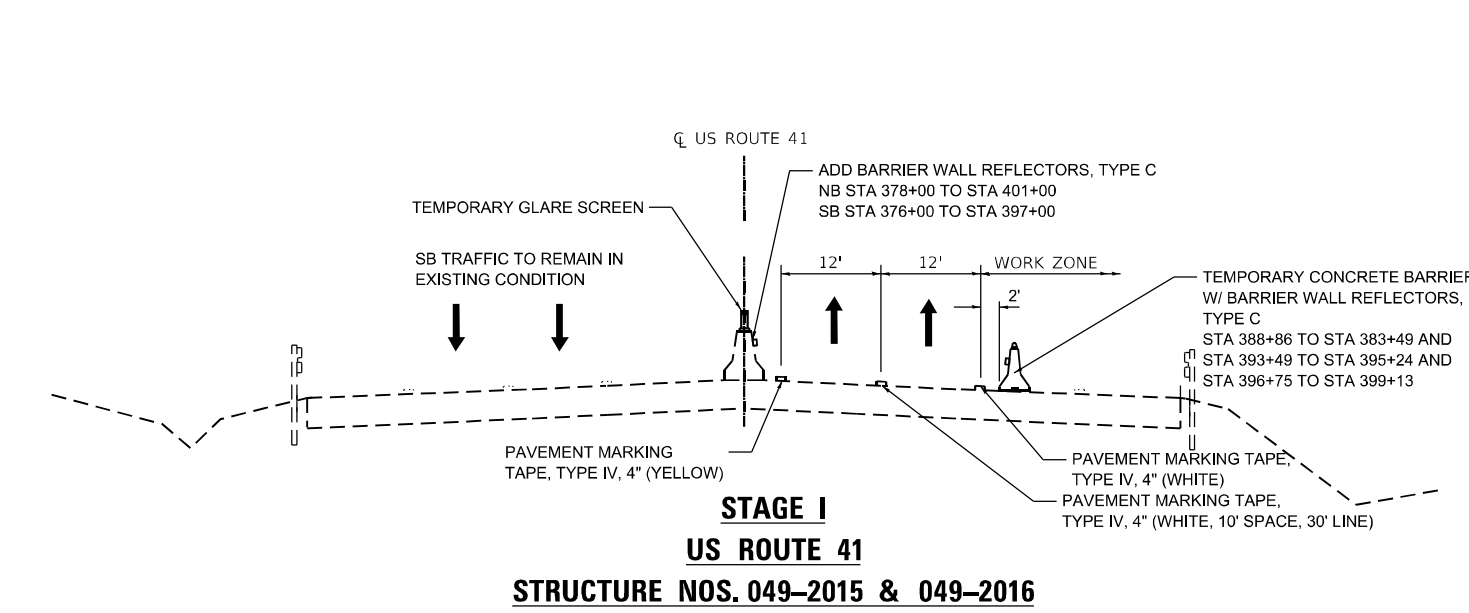


**STAGE III - TYPICAL SECTION
US ROUTE 41
STRUCTURE NO. 049-0228**

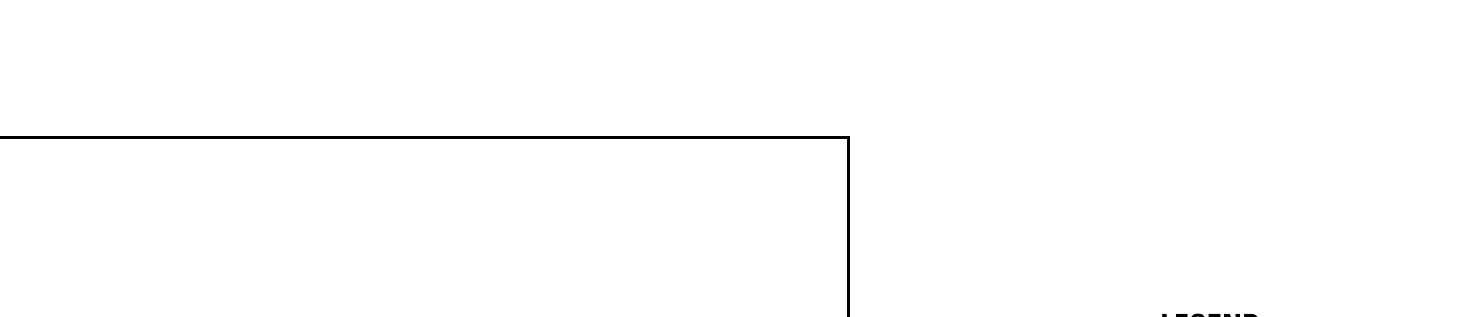
INSTALL TEMPORARY CONCRETE BARRIER WALL STA 48+55 TO STA 48+80 RELOCATE TEMPORARY CONCRETE BARRIER WALL STA 48+80 TO STA 53+29 BARRIER WALL REFLECTORS, TYPE C AFTER NB WORK IS COMPLETED



**EXISTING TYPICAL SECTION
US ROUTE 41
STRUCTURE NOS. 049-2015 & 049-2016**



**STAGE I
US ROUTE 41
STRUCTURE NOS. 049-2015 & 049-2016**



**ADVANCE WIDTH RESTRICTION SIGNING FOR
NB TRAFFIC NEAR STRUCTURE NO: 049-0228**

- LEGEND**
- PAVEMENT MARKING
 - TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTOR, TYPE C
 - DIRECTION OF TRAFFIC
 - TEMPORARY GLARE SCREEN
 - DRUM OR TYPE II BARRICADES AT 50' C-C SPACING IN TAPERS AND 100' C-C SPACING IN TANGENTS
 - EXISTING CONCRETE BARRIER WITH BARRIER WALL REFLECTOR, TYPE C
 - VERTICAL PANEL WITH STEADY BURN LIGHT
 - SHLD ABBREVIATION FOR SHOULDER



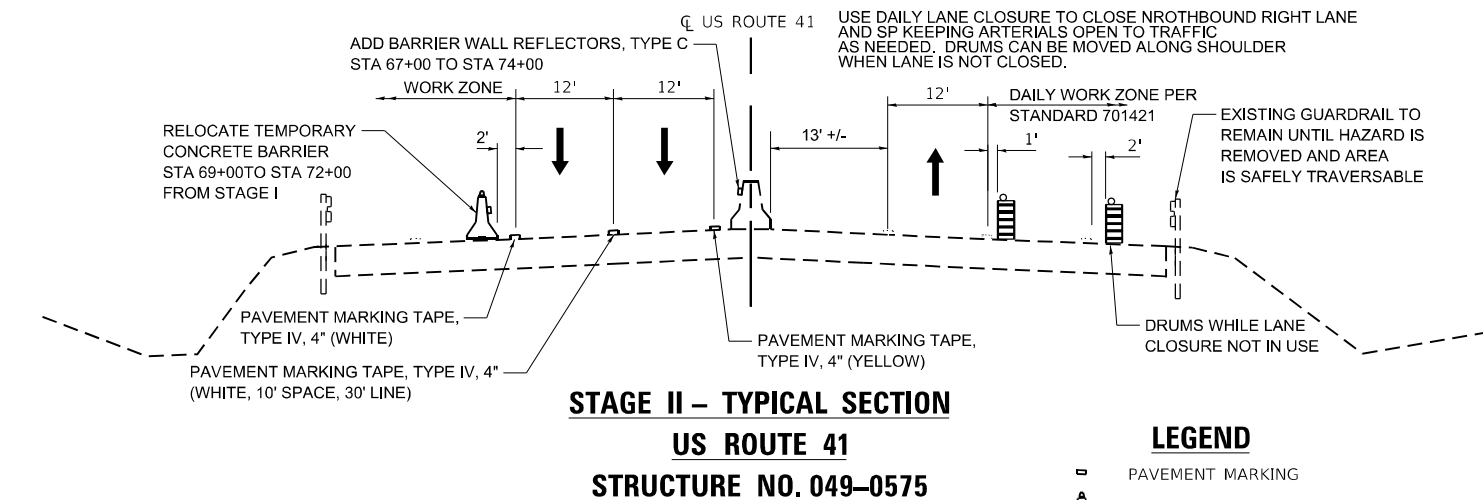
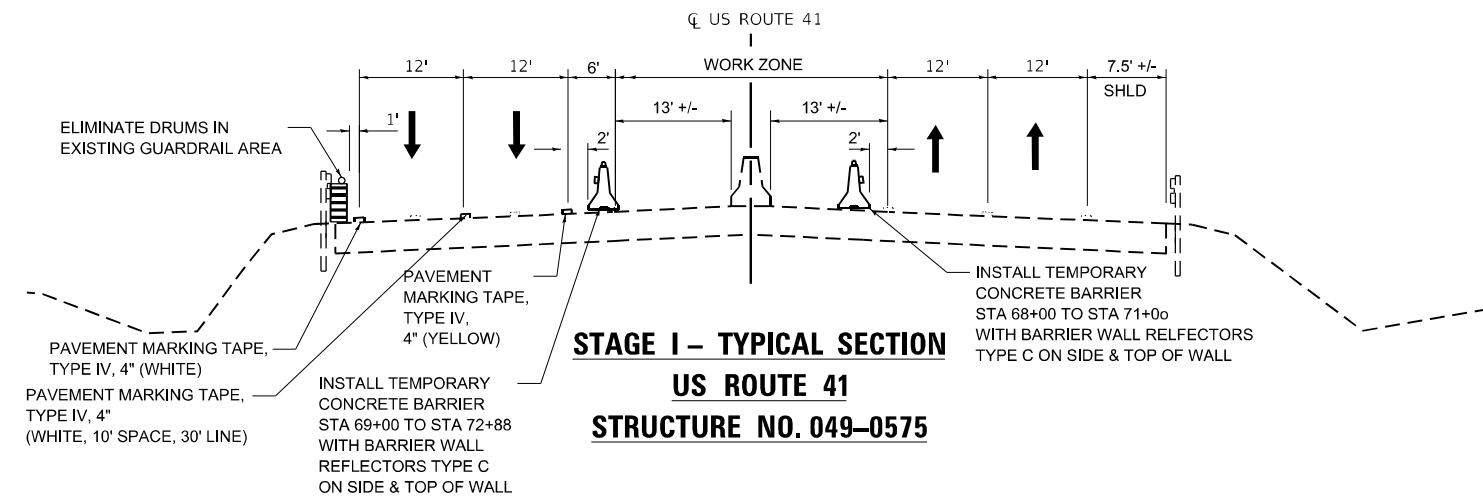
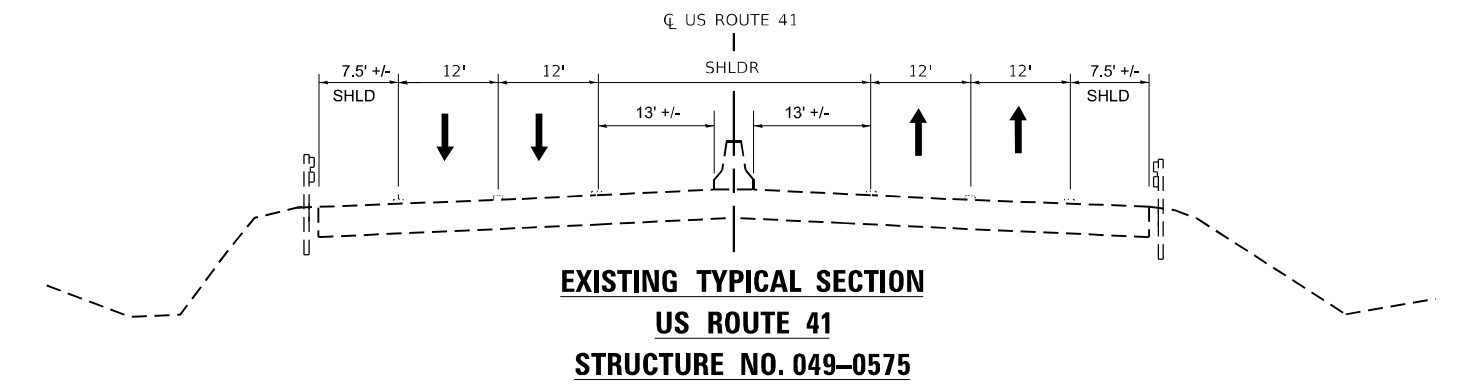
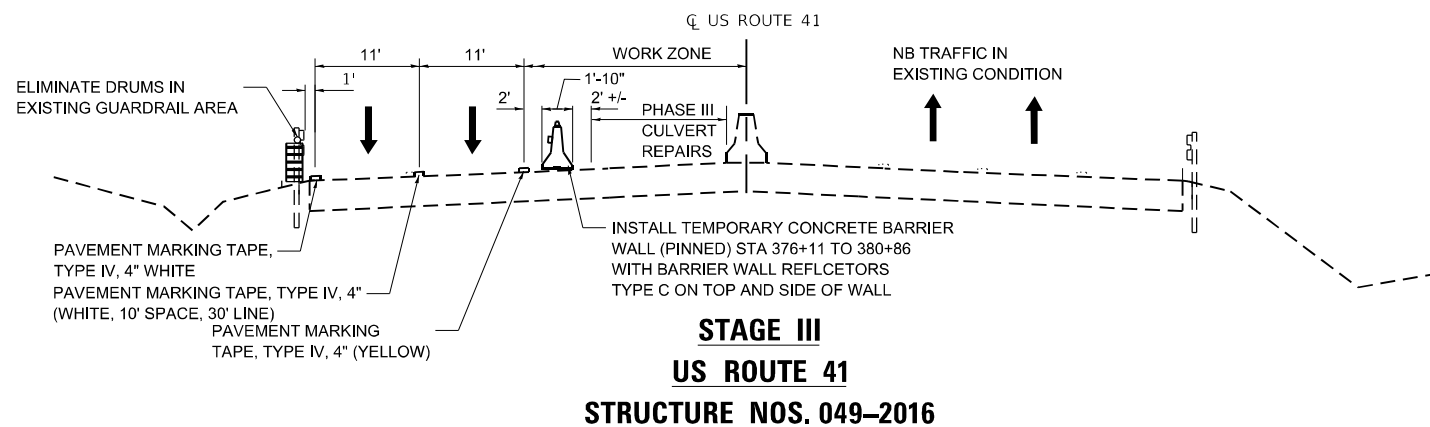
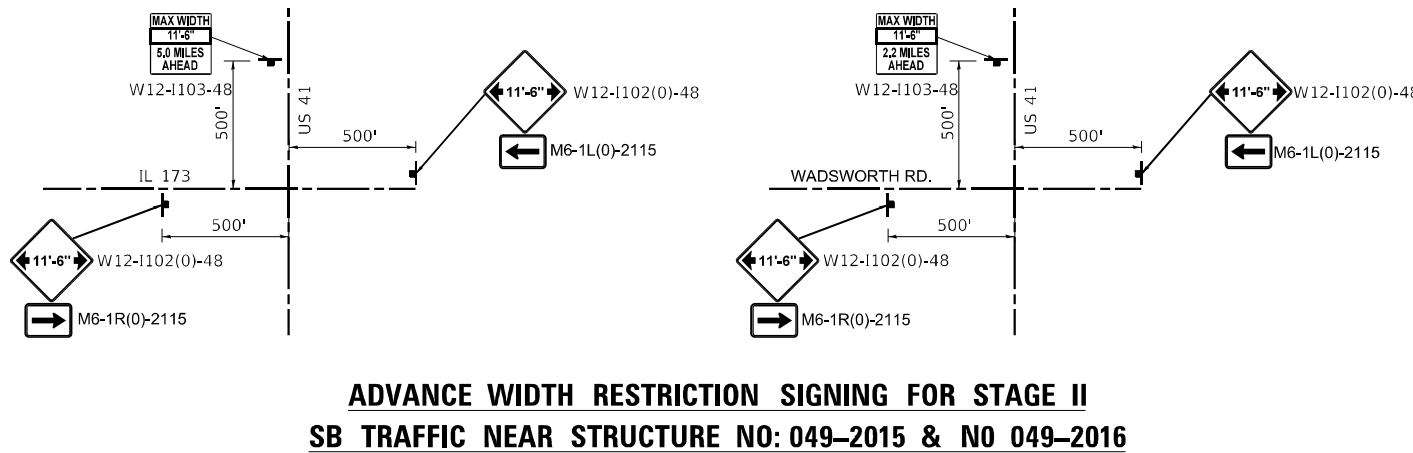
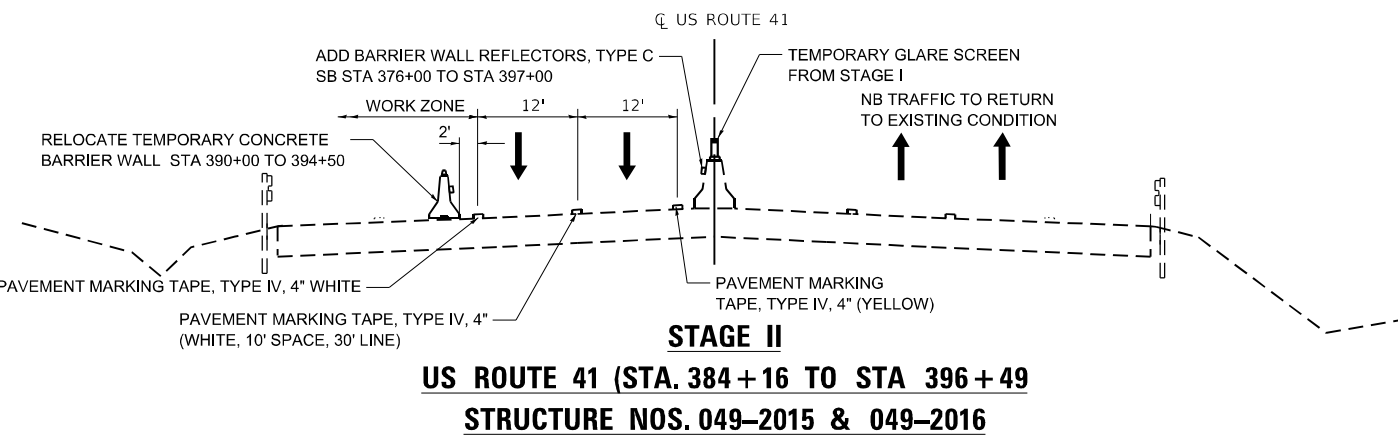
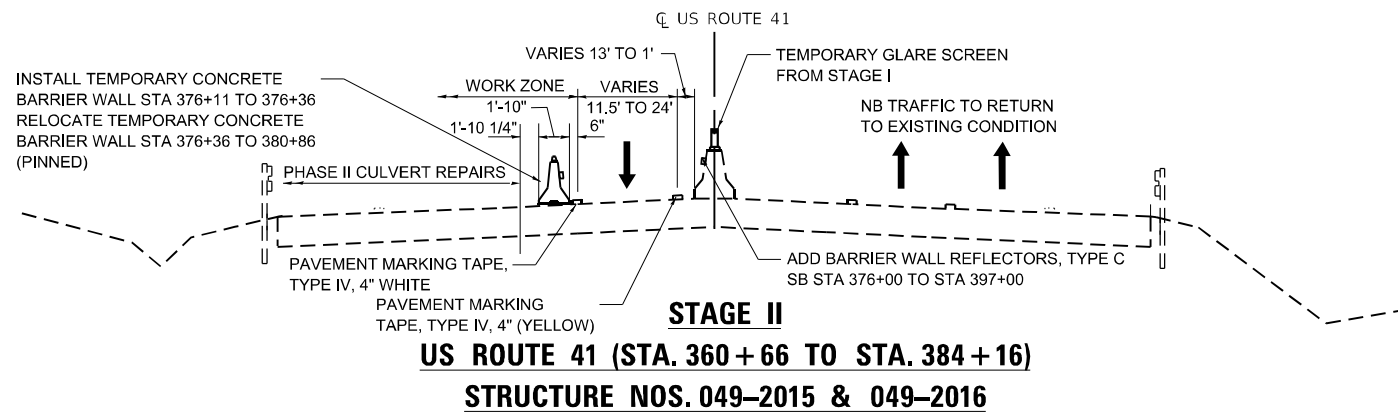
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS - I
STRUCTURE NOS. 049-0228, 049-2015 & 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	21
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTOR, TYPE C
- DIRECTION OF TRAFFIC
- TEMPORARY GLARE SCREEN
- DRUM OR TYPE II BARRICADES AT 50' C-C SPACING IN TAPERS AND 100' C-C SPACING IN TANGENTS
- EXISTING CONCRETE BARRIER WITH BARRIER WALL REFLECTOR, TYPE C
- SHLDR ABBREVIATION FOR SHOULDER

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DATE - 08/14/2020	REVISED -

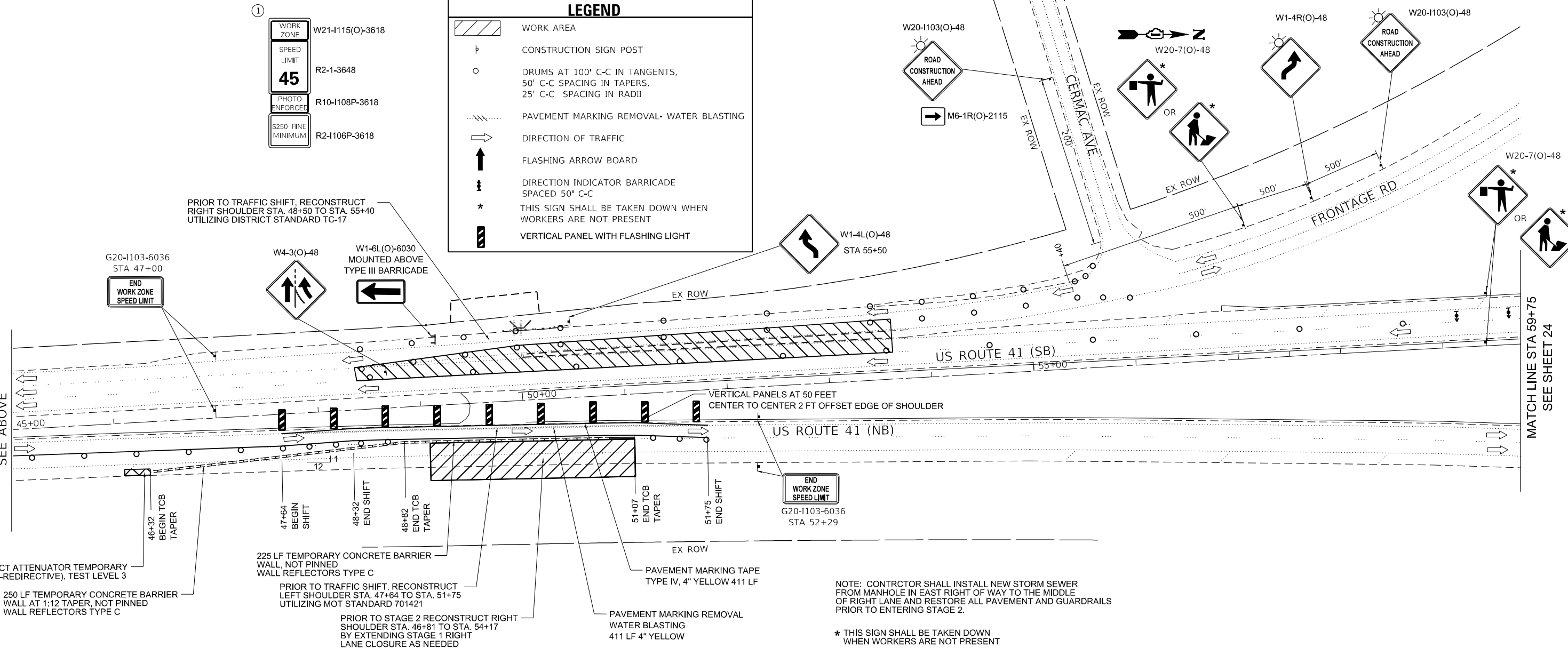
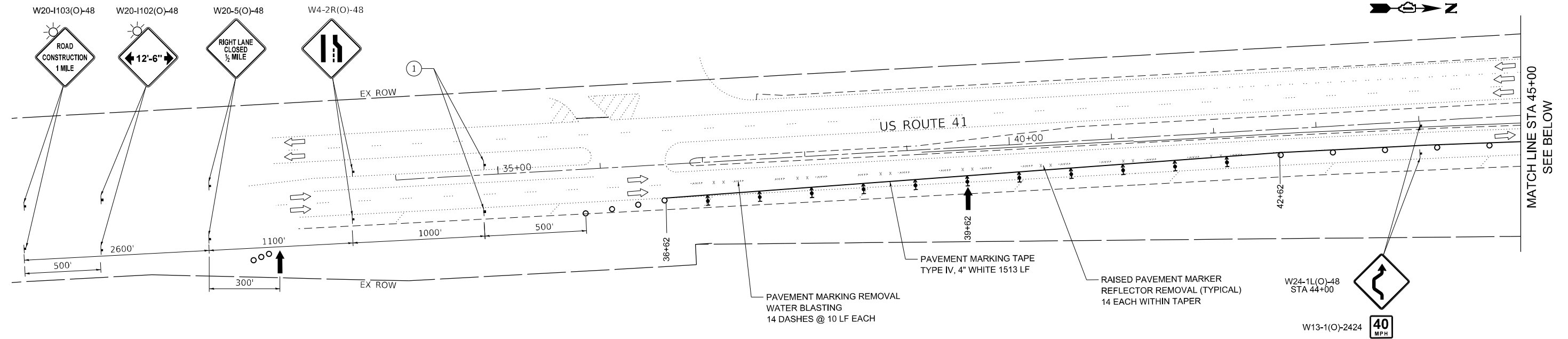
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS - II
STRUCTURE NOS. 049-2015, 049-2016 & NO. 049-0575

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	22
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-rdr-18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 1- 049-0228 1.dgn



LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C
	THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT
	VERTICAL PANEL WITH FLASHING LIGHT

	WORK ZONE	W21-I115(O)-3618
	SPEED LIMIT	R2-1-3648
	PHOTO ENFORCED	R10-I108P-3618
	5250 FINE MINIMUM	R2-I106P-3618

PRIOR TO TRAFFIC SHIFT, RECONSTRUCT RIGHT SHOULDER STA. 48+50 TO STA. 55+40 UTILIZING DISTRICT STANDARD TC-17

G20-I103-6036 STA 47+00
END WORK ZONE SPEED LIMIT

W1-6L(O)-6030 MOUNTED ABOVE TYPE III BARRICADE

VERTICAL PANELS AT 50 FEET CENTER TO CENTER 2 FT OFFSET EDGE OF SHOULDER

G20-I103-6036 STA 52+29
END WORK ZONE SPEED LIMIT

IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
250 LF TEMPORARY CONCRETE BARRIER WALL AT 1:12 TAPER, NOT PINNED WALL REFLECTORS TYPE C

225 LF TEMPORARY CONCRETE BARRIER WALL, NOT PINNED WALL REFLECTORS TYPE C

PRIOR TO TRAFFIC SHIFT, RECONSTRUCT LEFT SHOULDER STA. 47+64 TO STA. 51+75 UTILIZING MOT STANDARD 701421

PRIOR TO STAGE 2 RECONSTRUCT RIGHT SHOULDER STA. 46+81 TO STA. 54+17 BY EXTENDING STAGE 1 RIGHT LANE CLOSURE AS NEEDED

NOTE: CONTRACTOR SHALL INSTALL NEW STORM SEWER FROM MANHOLE IN EAST RIGHT OF WAY TO THE MIDDLE OF RIGHT LANE AND RESTORE ALL PAVEMENT AND GUARDRAILS PRIOR TO ENTERING STAGE 2.

* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT



USER NAME = abee	DESIGNED - DH	REVISED -
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	DATE - 08/14/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

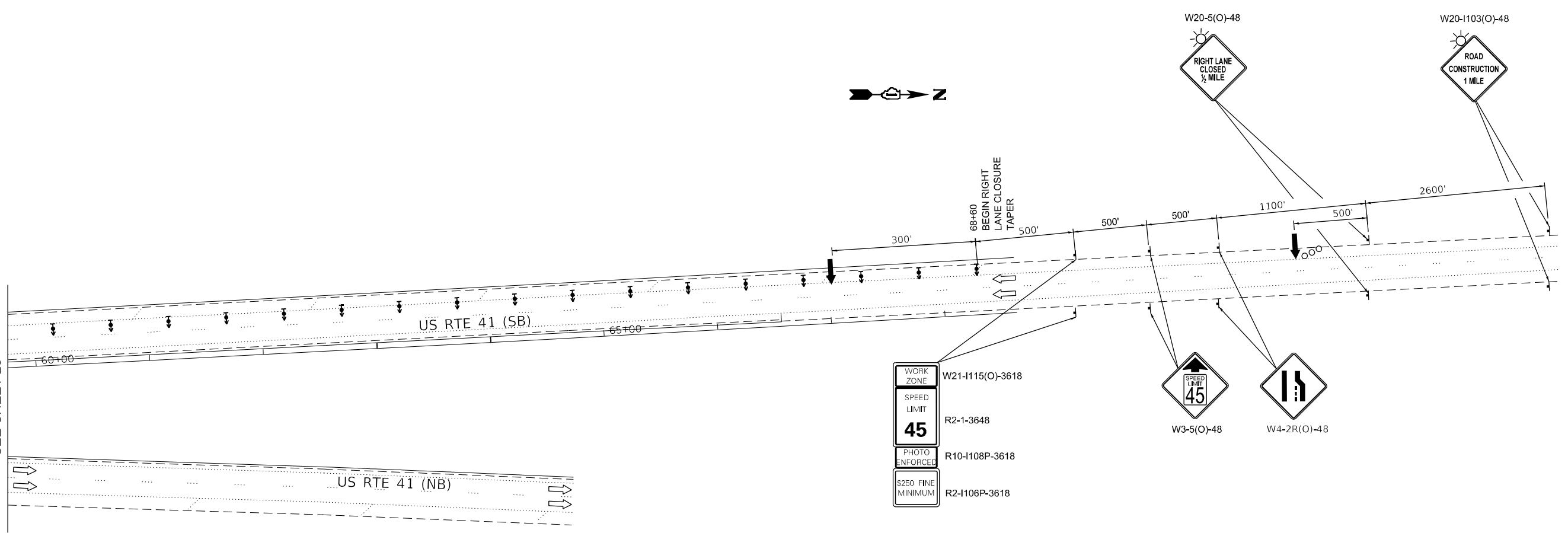
MAINTENANCE OF TRAFFIC - LOCATION 1 - STAGE 1 - I
STRUCTURE NO. 049-0228

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 23
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18- 62126\CA00\CA00 Sheets\Civil\62126-shr-MOT 1- 049-0228 2.dgn

MATCH LINE STA 59+75
SEE SHEET 23



WORK ZONE W21-1115(O)-3618

SPEED LIMIT 45 R2-1-3648

PHOTO ENFORCED R10-1108P-3618

\$250 FINE MINIMUM R2-1106P-3618

W20-5(O)-48
RIGHT LANE CLOSED 1/2 MILE

W20-1103(O)-48
ROAD CONSTRUCTION 1 MILE

W3-5(O)-48
SPEED LIMIT 45

W4-2R(O)-48
LANE CLOSURE

LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C



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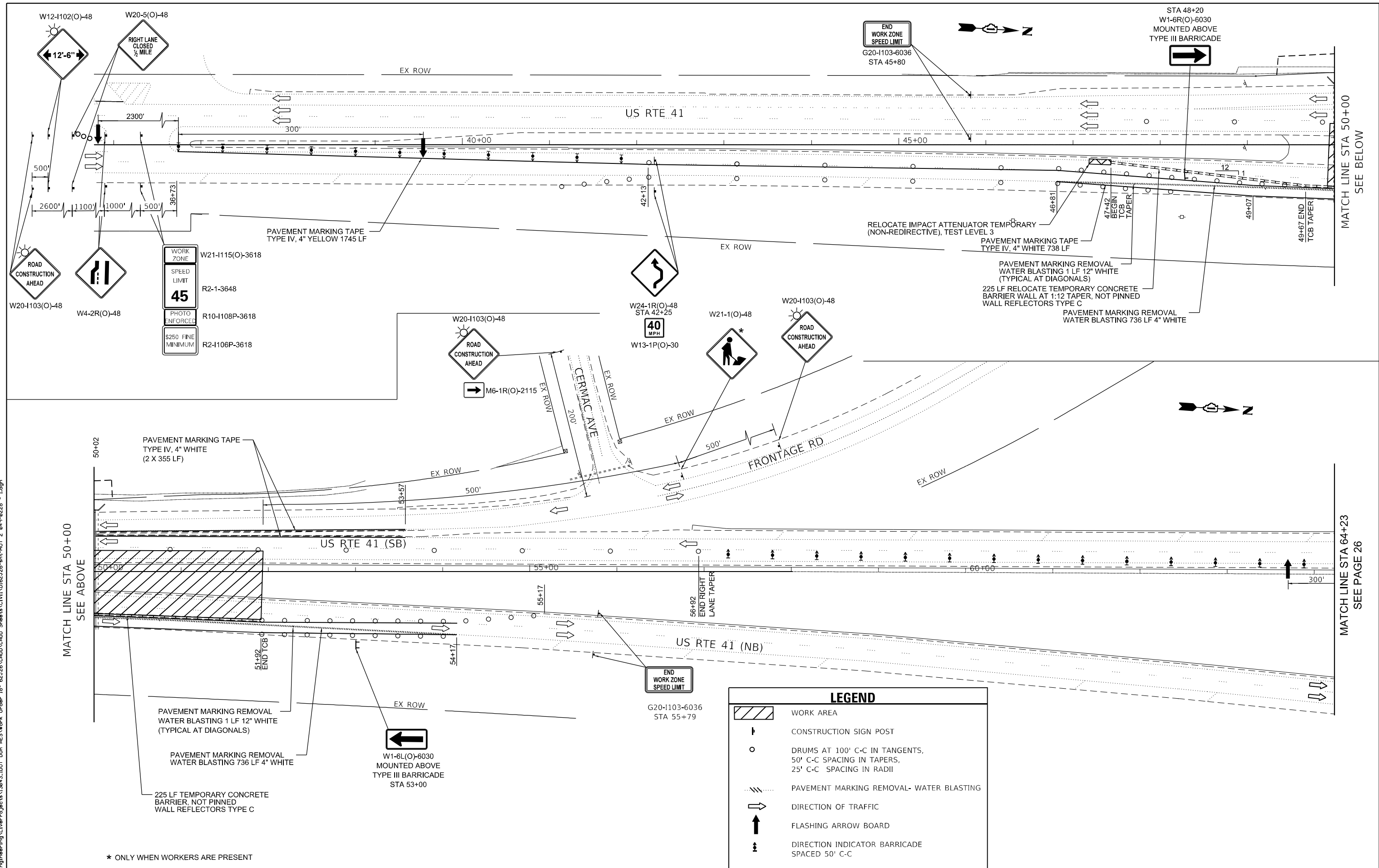
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - LOCATION 1 - STAGE 1 - II
STRUCTURE NO. 049-0228

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	24
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 2 049-0228 - 1.dgn



LEGEND

- WORK AREA
- CONSTRUCTION SIGN POST
- DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
- PAVEMENT MARKING REMOVAL- WATER BLASTING
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- DIRECTION INDICATOR BARRICADE SPACED 50' C-C

* ONLY WHEN WORKERS ARE PRESENT



USER NAME = abee	DESIGNED - DH	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN - IH	REVISED -
PLOT DATE = 10/8/2020	CHECKED - JMT	REVISED -
	DATE - 08/14/2020	REVISED -

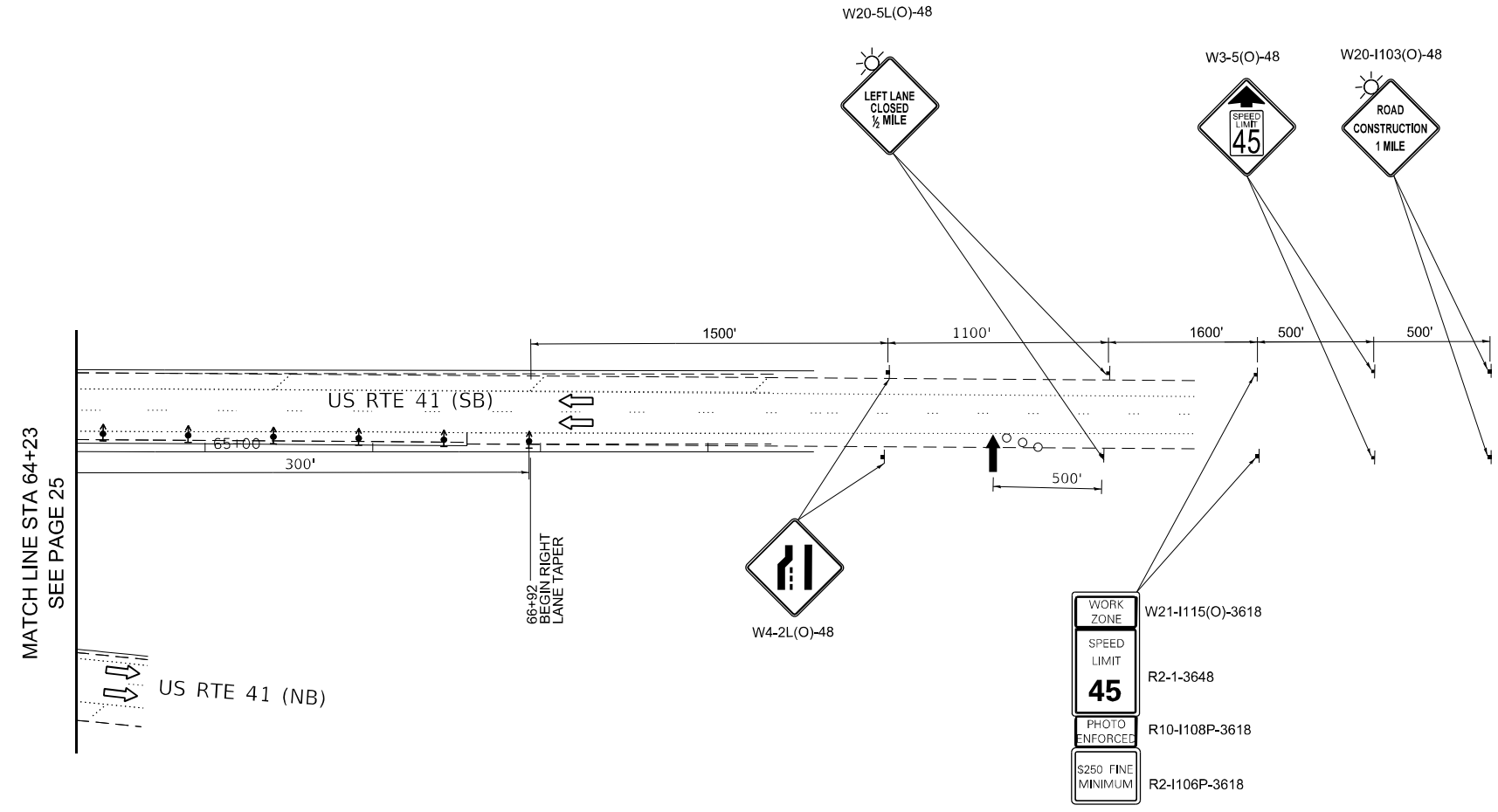
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - LOCATION 1 - STAGE 2 - I
STRUCTURE NO. 049-0228

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 25
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order 18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 2 049-0228 - 2.dgn



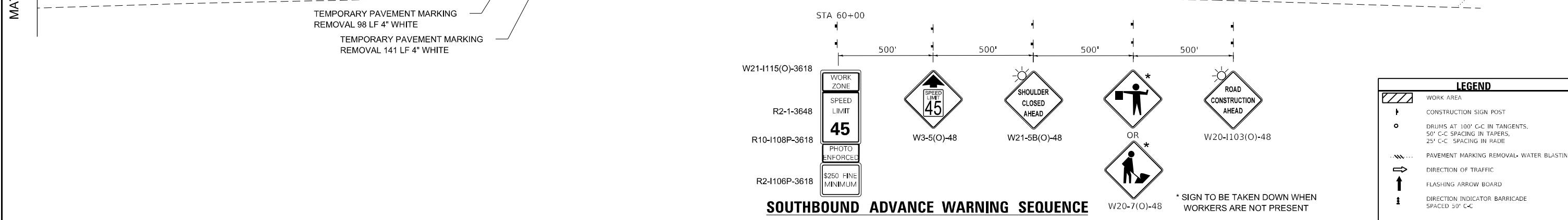
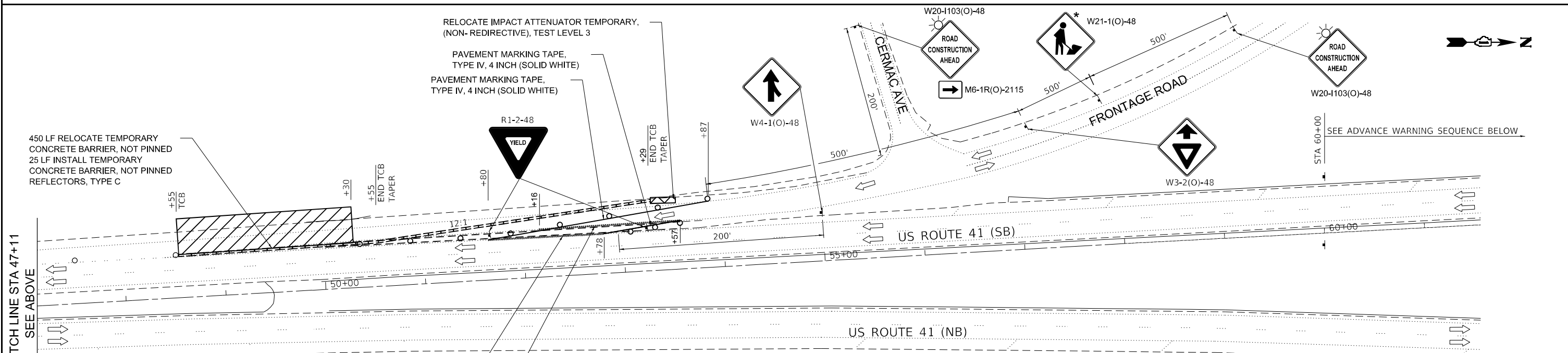
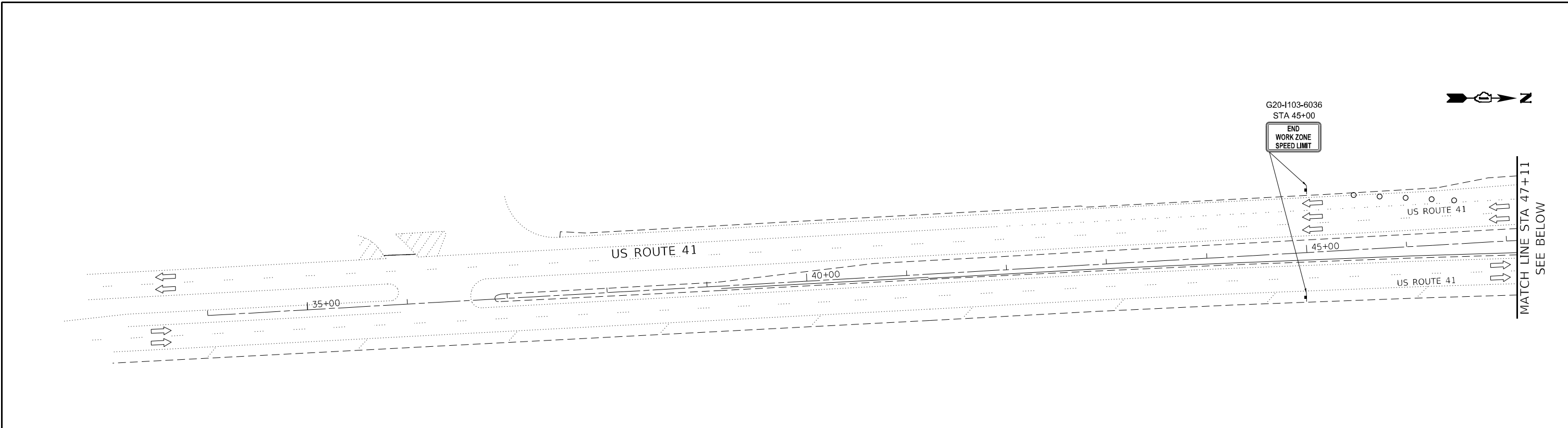
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DRAWN - IH	REVISOR -	
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATION 1 - STAGE 2 - II
STRUCTURE NO. 049-0228**

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 26
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62126	
ILLINOIS FED. AID PROJECT				

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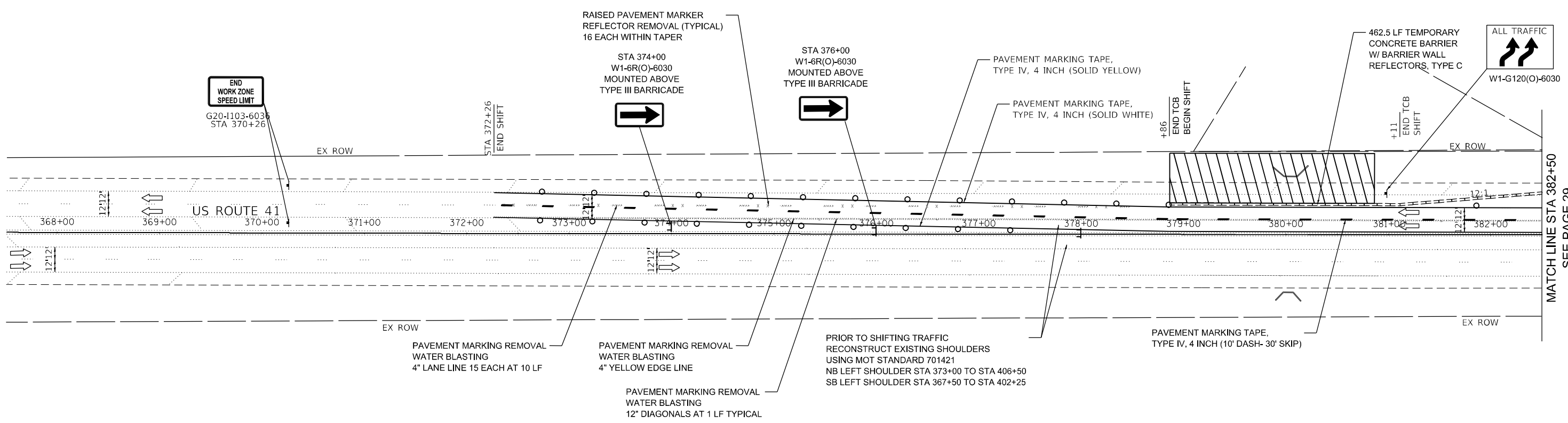
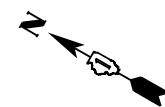
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATION 1 - STAGE 3
STRUCTURE NO. 049-0228**

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 27
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				

LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C



MATCH LINE STA 382+00
SEE PAGE 29

LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 1-049-2015 2016 -1.dgn



USER NAME = abee	DESIGNED - DH	REVISED -
DRAWN - AB	REVISOR -	
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

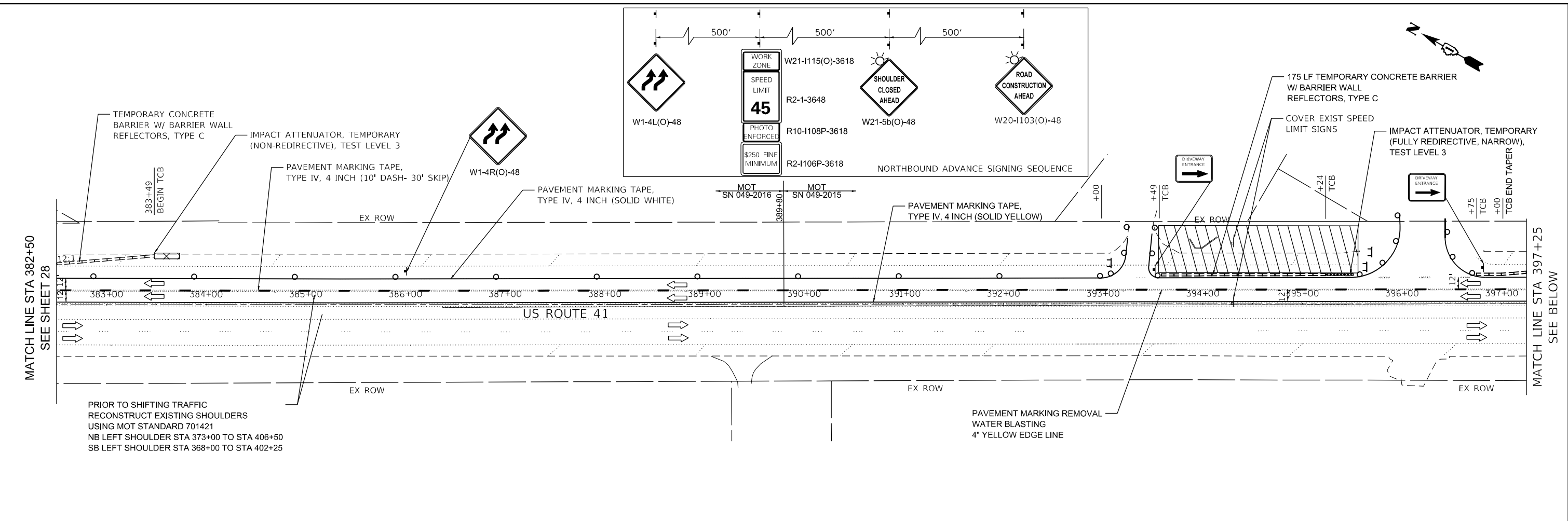
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATIONS 2 & 3 - STAGE 1 - I
STRUCTURE NOS. 049-2015 AND 049-2016**

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 28
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18-62126\CADD\CADD Sheets\Civil\62126-ent-MOT-1-049-2015-2016-2.dgn



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	DATE - 08/14/2020	REVISED -

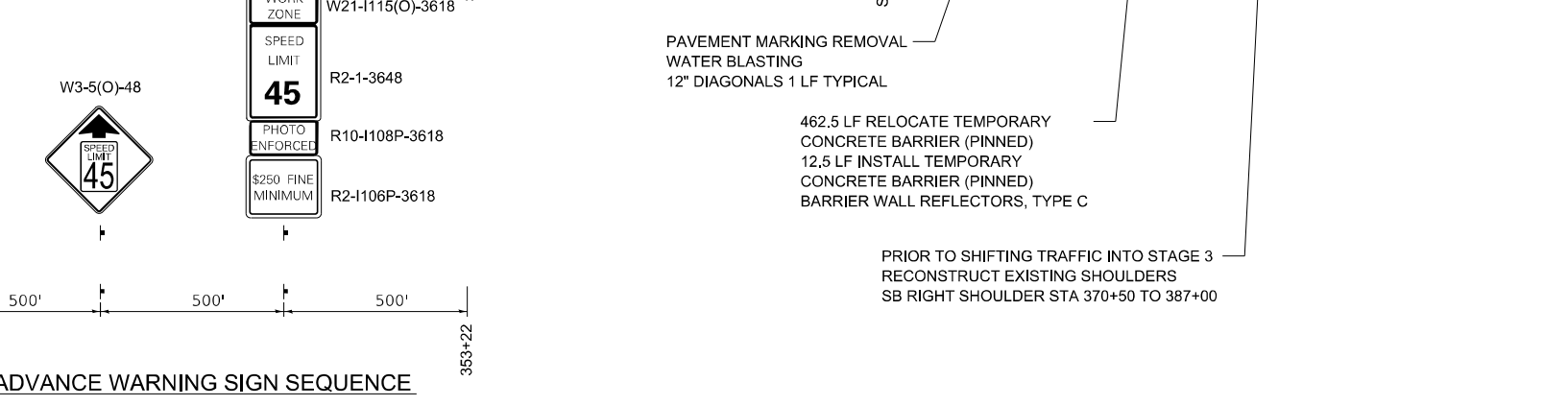
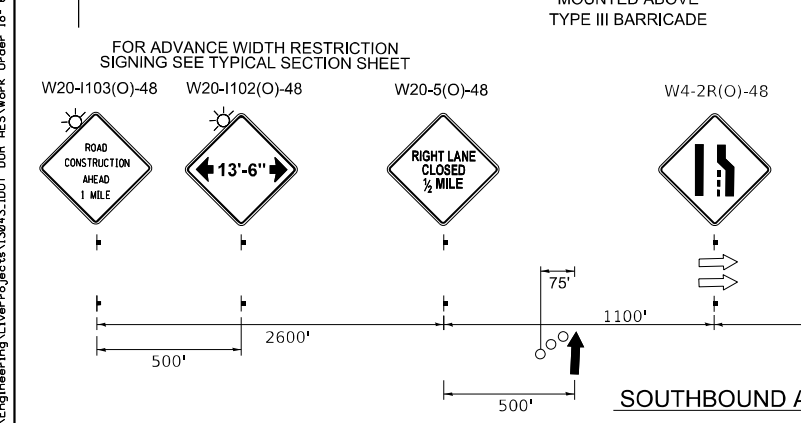
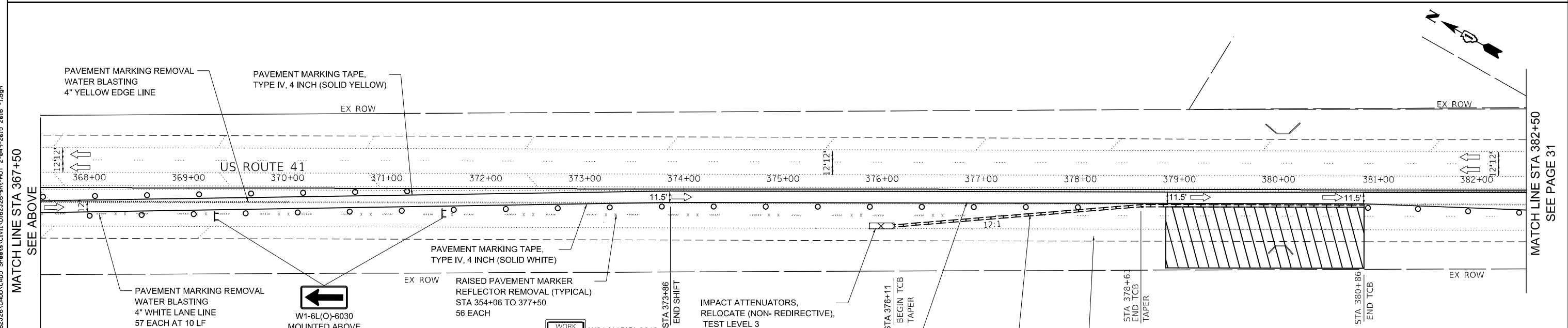
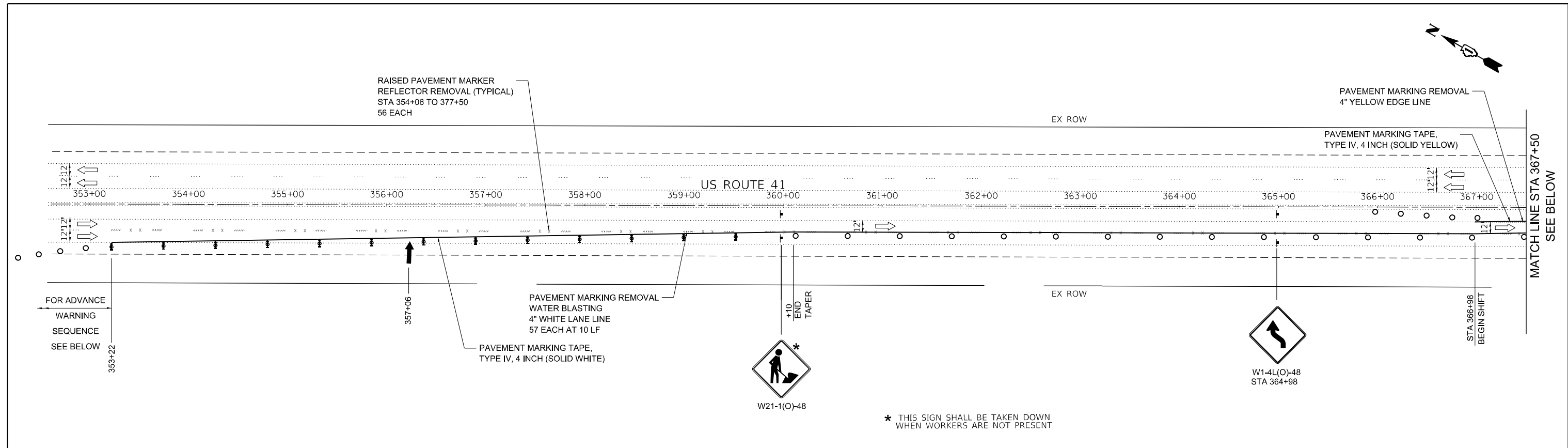
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATIONS 2 & 3 - STAGE 1 - II
STRUCTURE NOS. 049-2015 AND 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 29
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				

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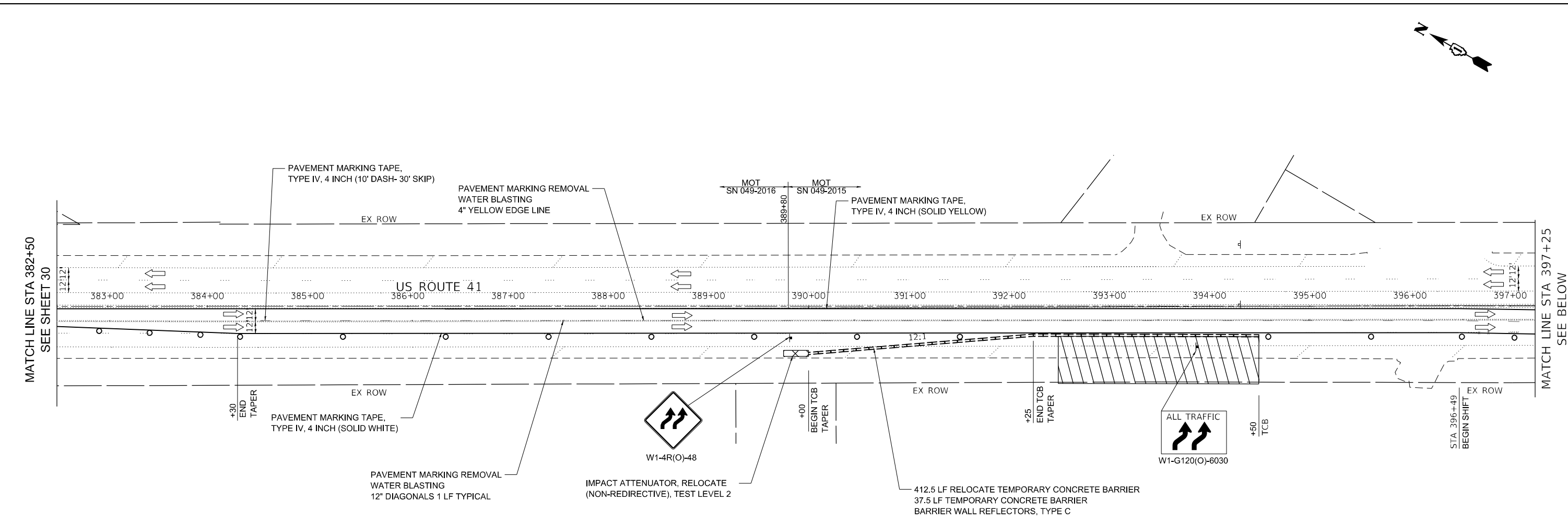
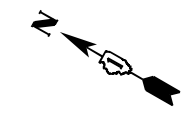
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	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

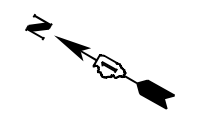
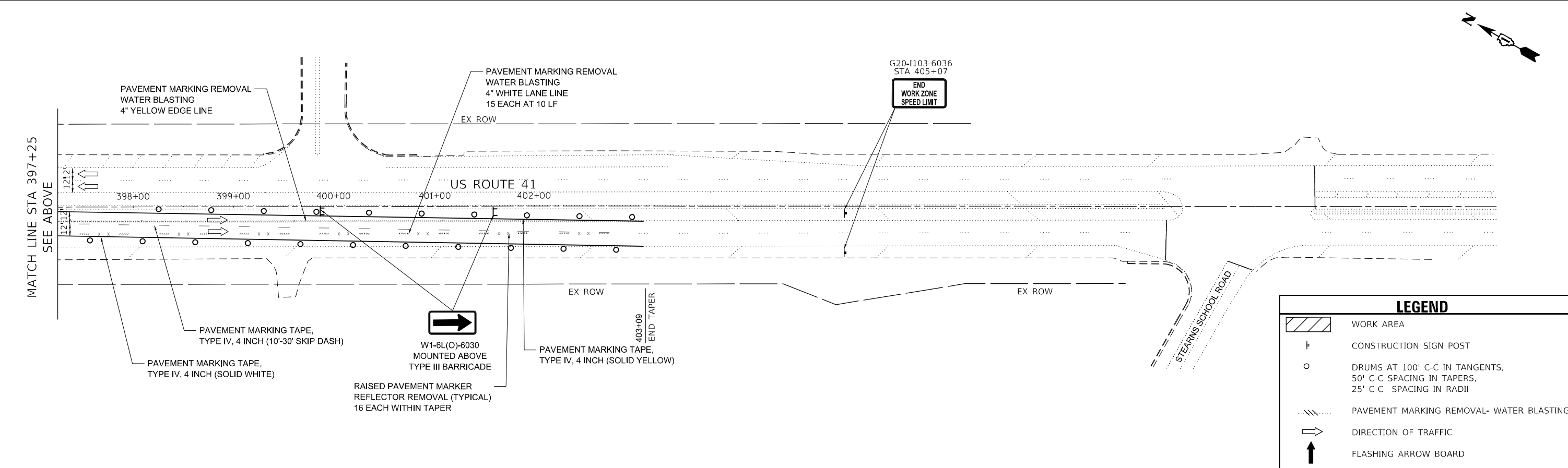
**MAINTENANCE OF TRAFFIC - LOCATIONS 2 & 3 - STAGE 2 - I
STRUCTURE NOS. 049-2015 AND 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	30
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 397+25
SEE BELOW



LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 2-949-2015 2016 -.2.dgn



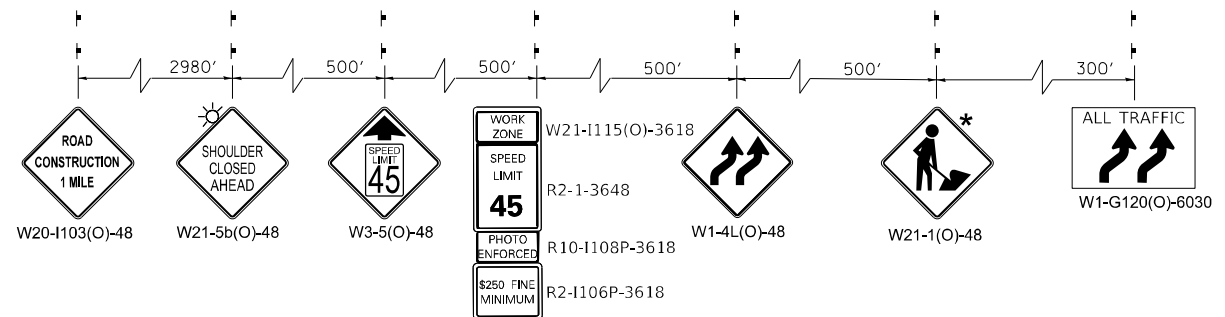
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PLOT DATE = 10/8/2020	CHECKED - JMT	REVISED -
	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATIONS 2 & 3 - STAGE 2 - II
STRUCTURE NOS. 049-2015 AND 049-2016**

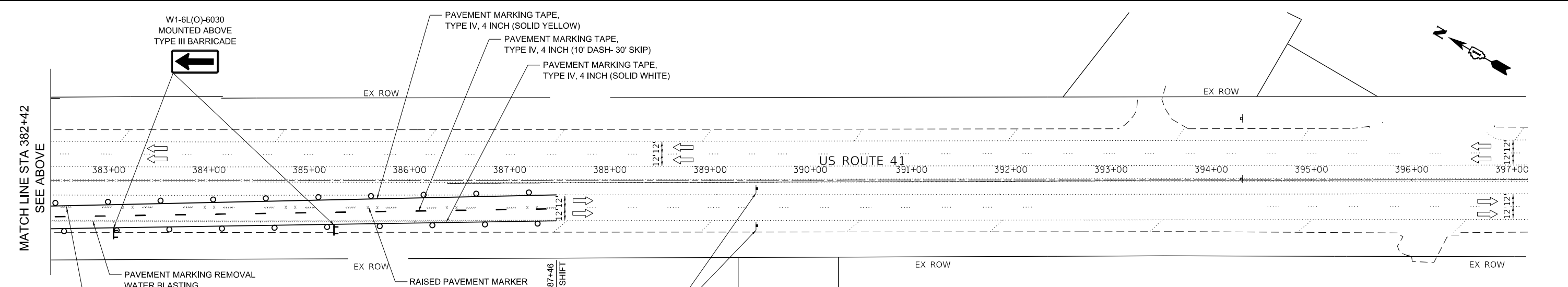
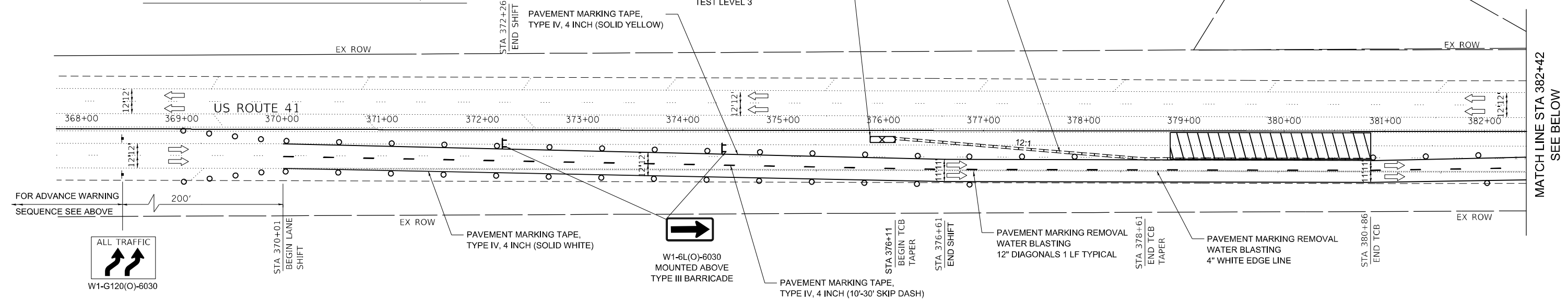
F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 31
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

SOUTHBOUND ADVANCE WARNING SIGN SEQUENCE



LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CADD\CADD Sheets\Civil\162126-sht-MOT 3 -049-2016 -1.dgn



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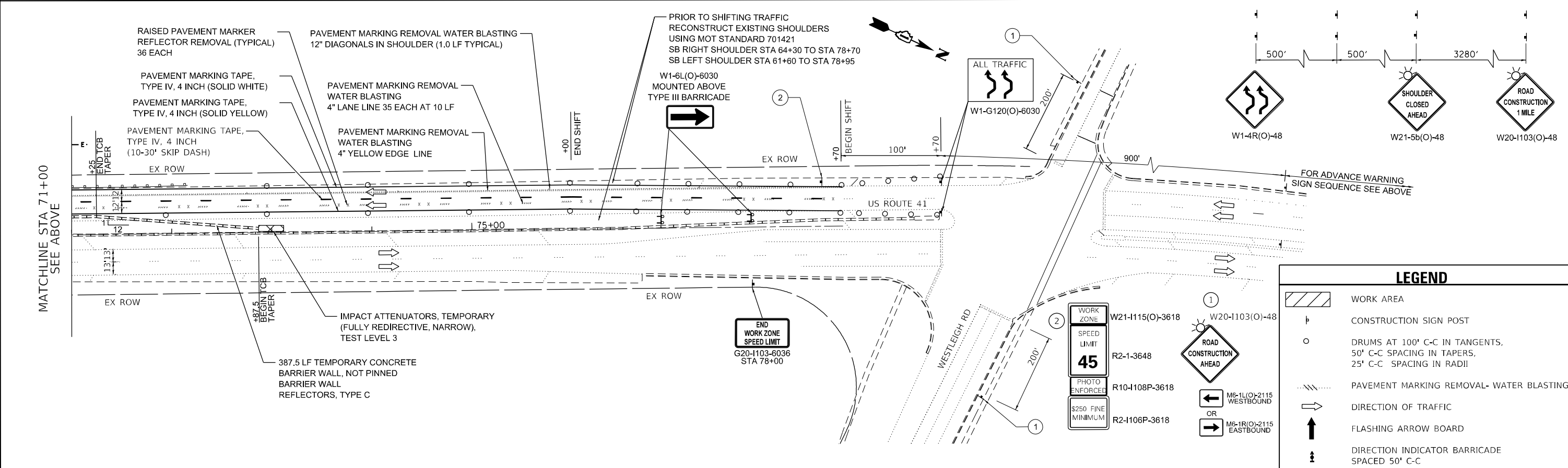
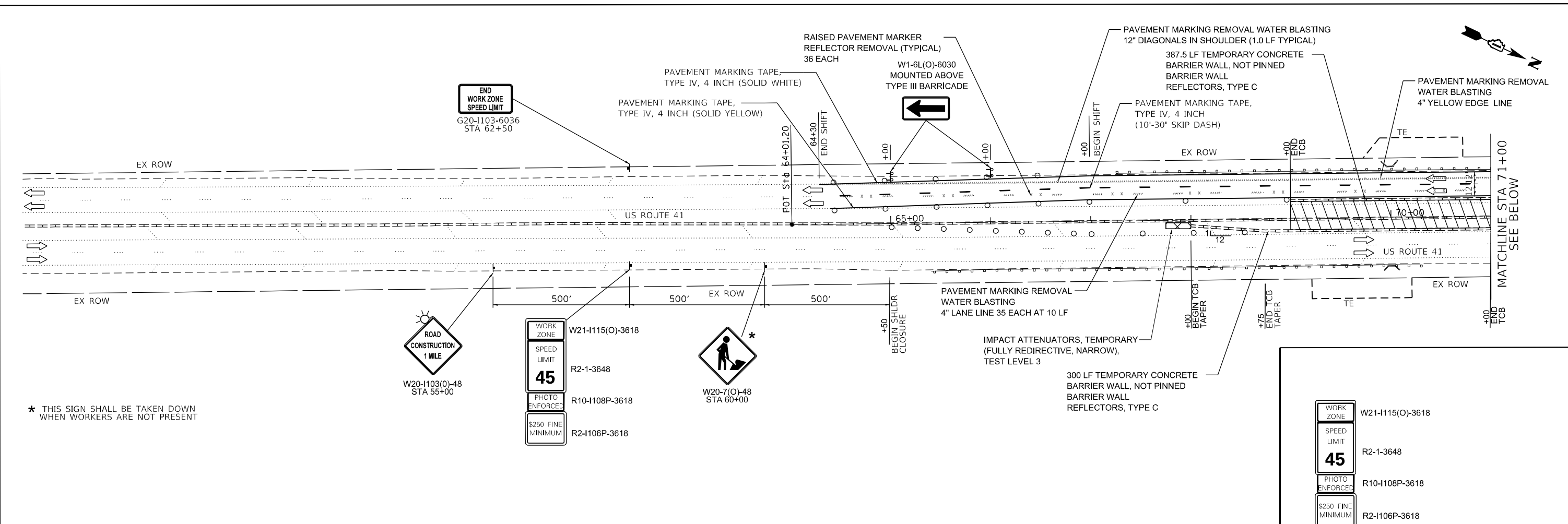
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATION 2 - STAGE 3 - I
STRUCTURE NOS. 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 32
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

FILE NAME = G:\Engineering\LU\Projects\13043.100T DIR RES\Work Order-18-62126\CADD\CAD Sheets\Civil\62126-INT-1049-0575.dgn



LEGEND	
	WORK AREA
	CONSTRUCTION SIGN POST
	DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
	PAVEMENT MARKING REMOVAL- WATER BLASTING
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	DIRECTION INDICATOR BARRICADE SPACED 50' C-C



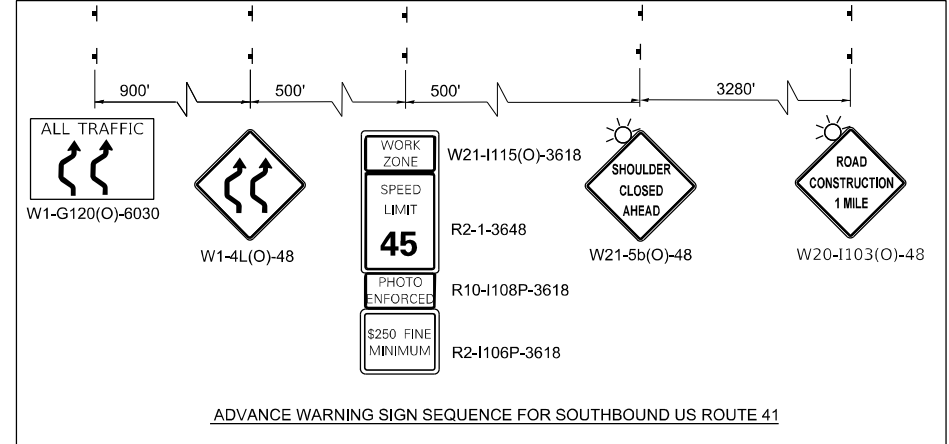
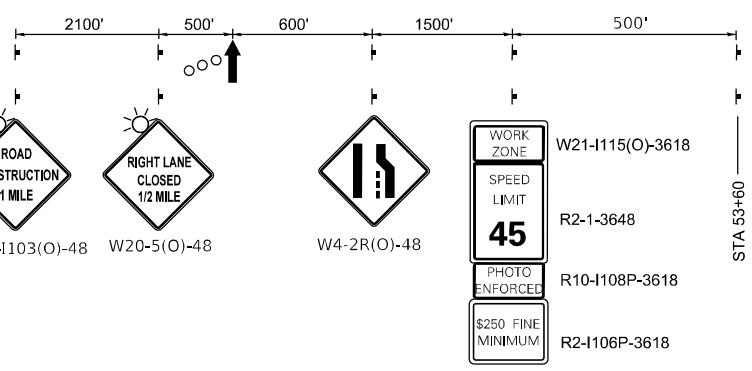
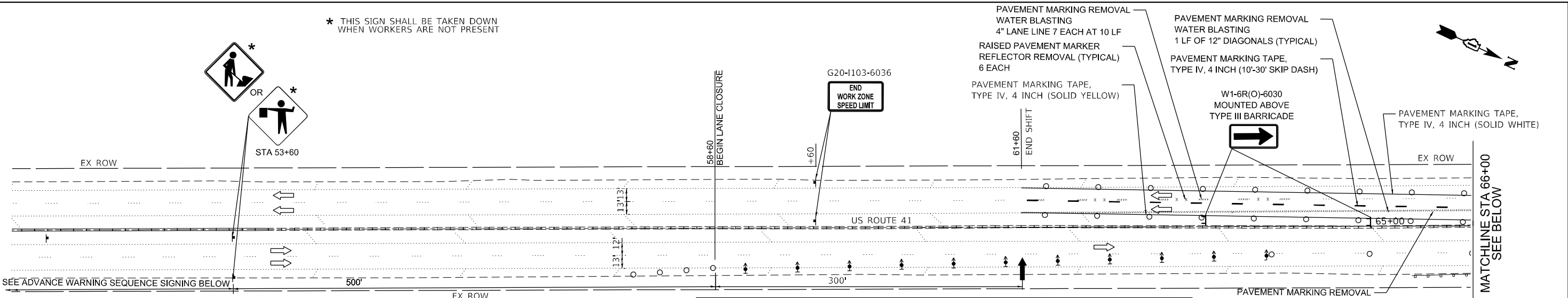
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DRAWN - AB	REVISOR -	
CHECKED - JMT	REVISOR -	
DATE - 08/14/2020	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATION 4 - STAGE 1
STRUCTURE NO. 049-0575**

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 33
CONTRACT NO. 62126				ILLINOIS FED. AID PROJECT

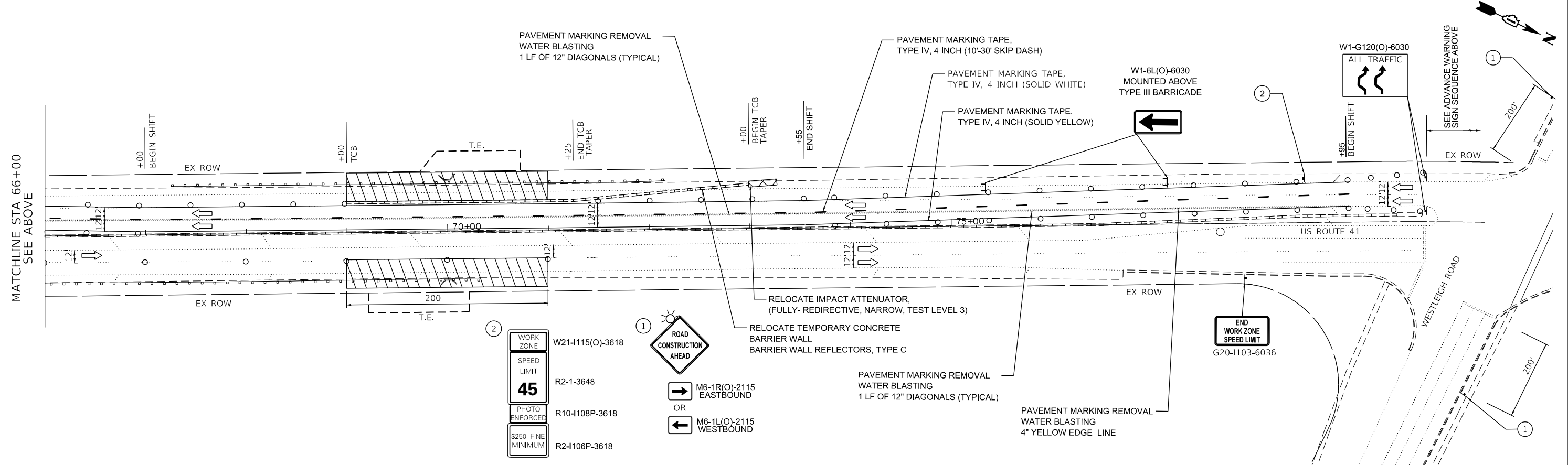
* THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT



LEGEND

- WORK AREA
- CONSTRUCTION SIGN POST
- DRUMS AT 100' C-C IN TANGENTS, 50' C-C SPACING IN TAPERS, 25' C-C SPACING IN RADII
- PAVEMENT MARKING REMOVAL- WATER BLASTING
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- DIRECTION INDICATOR BARRICADE SPACED 50' C-C

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-dur-18- 62126\CADD\CADD Sheets\Civil\62126-sht-MOT 2 049-0575.dgn

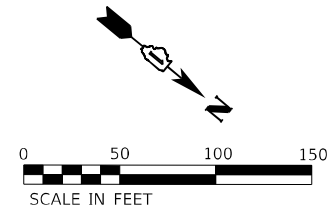


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PLOT DATE = 10/8/2020	CHECKED - JMT	REVISED -
	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - LOCATION 4 - STAGE 2
STRUCTURE NO. 049-0575**

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 34
CONTRACT NO. 62126				ILLINOIS FED. AID PROJECT



**END
WORK ZONE
SPEED LIMIT**
G20-1103-6036

12:1 MIN TAPER
CONC. BARRIER

DRUMS PLACED AT
50' CENTERS

100' TANGENT

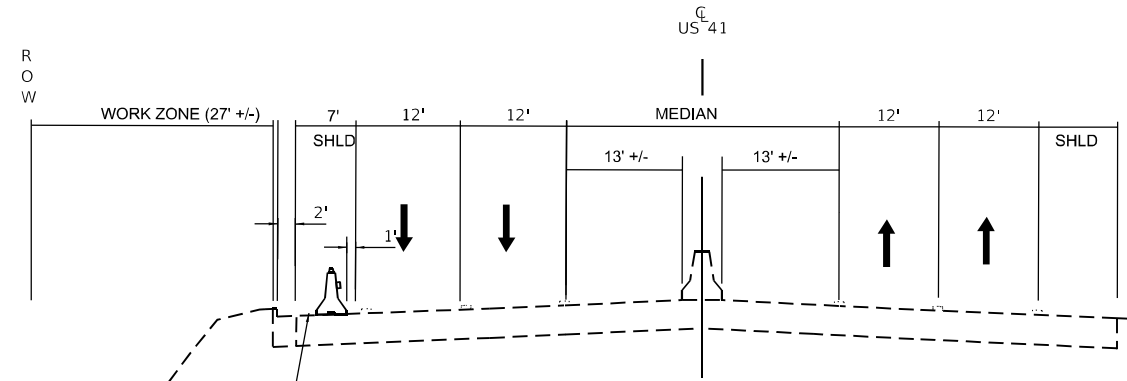
130' TAPER

W21-1(0)-48

NOTE:
THIS SIGN SHALL BE DOWN WHEN WORKERS NOT PRESENT.

WORK ZONE	W21-115(O)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108-3618
\$250 FINE MINIMUM	R2-1106p-3618

LEGEND & SCHEDULE	
	WORK AREA
	CONSTRUCTION SIGN POST
	TEMPORARY CONCRETE BARRIER STA 364+43.5 TO 366+06 162.5 FOOT TYPE C REFLECTORS 14 EACH
	IMPACT ATTENUATOR TEMPORARY (FULLY REDIRECTIVE NARROW) TEST LEVEL 3 1 EACH
	DRUMS



**MOT TYPICAL SECTION
US ROUTE 41
LOCATION 5**

INSTALL TEMPORARY
CONCRETE BARRIER
STA 364+42.5 TO STA 366+30

W21-5a(O)-48

**RIGHT SHOULDER
CLOSED**

W20-1103(O)-48

**ROAD
CONSTRUCTION
1 MILE**

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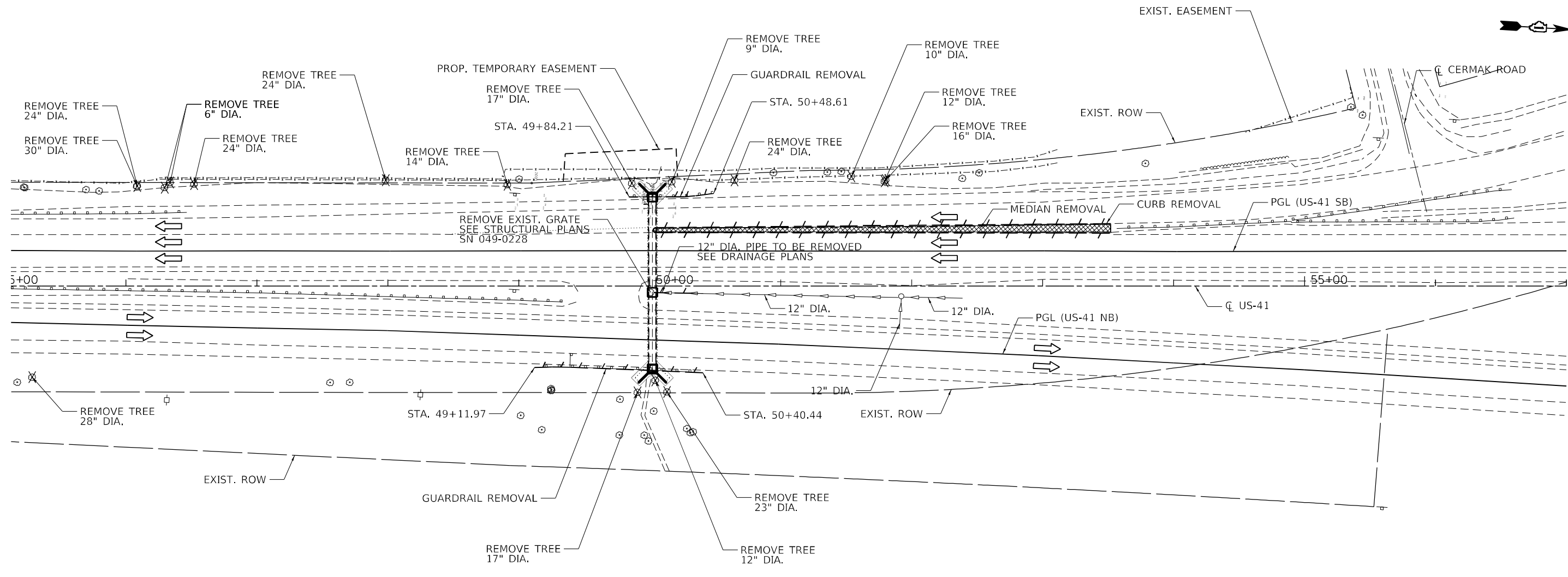
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DRAWN - JS	REVISED -	
CHECKED - JA	REVISED -	
DATE - 6/05/2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
LOCATION 5**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-149-T	LAKE	139	35
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



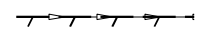
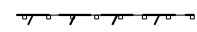
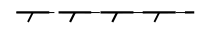


REMOVAL PLAN

NOTES:

1. EXISTING DRAINAGE OUTLETS SHALL BE MAINTAINED NEAR CULVERTS.
2. EXISTING TREES AND BRUSH ALONG THE WEST SHOULDER OF THE ON-RAMP SHALL BE PRUNED AND CLEARED PER THE "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE" SPECIAL PROVISION.

REMOVAL LEGEND

-  TREE REMOVAL
-  MEDIAN REMOVAL
-  EXISTING STORM SEWER REMOVAL
-  GUARDRAIL REMOVAL
-  CURB REMOVAL

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	DRAWN - AMI	REVISED -
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PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

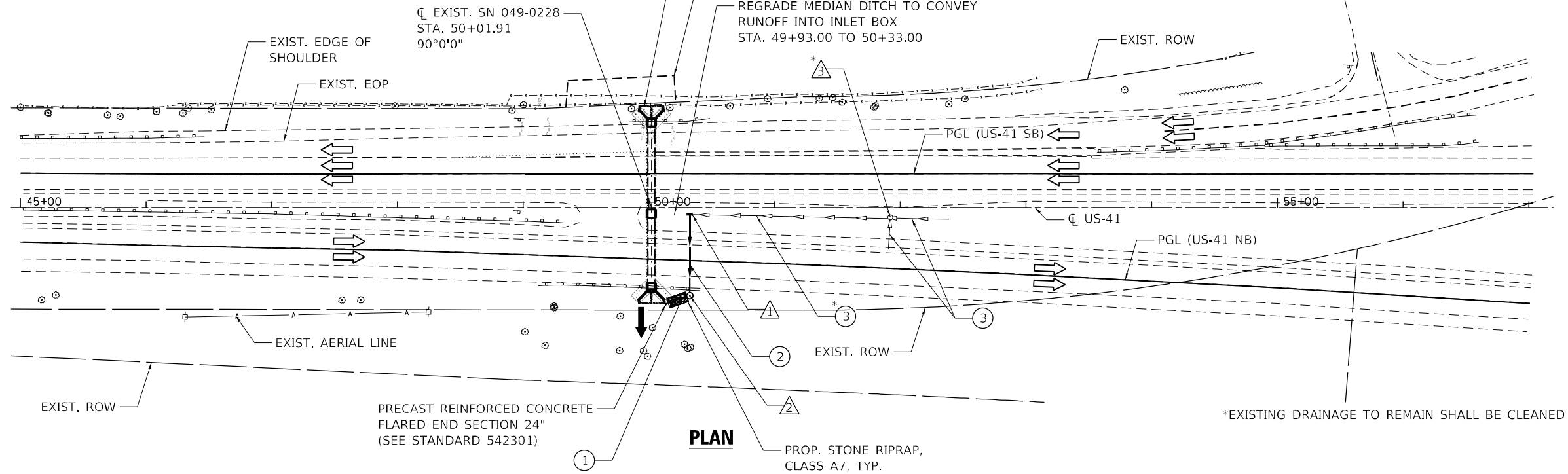
**REMOVAL PLAN - LOCATION 1
US-41 CULVERTS**

SCALE: 80,0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 36
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

EXIST. DRAINAGE TO BE CLEANED						
**TYPE	#	DIA.	STATION	TO	STATION	LENGTH
SS	3	12"	50+32.37		51+91.94	160
CB	3	-		51+91.95		-

** SS STORM SEWER
CB CATCH BASIN



△ 1 PROP. FLUSH INLET BOX IN MEDIAN
SEE STANDARD 542546
STA. 50+32.44, 5.45' RT
RIM EL. 689.25
INV. EL. 685.32(E)
INV. EL. 685.32(N)

△ 2 PROP. MANHOLE, TYPE A, 4' DIA.,
TYPE 1 FRAME, CLOSED LID
SEE STANDARD 602401
RIM=691.12
INV. EL. 685.09(W)
INV. EL. 683.04(S)

△ 3 EXIST. CATCH BASIN
51+91.95, 7.71' RT

① PROP. 24" STORM SEWER, 14 FT, 0.38%
INV. EL. 683.04(N)
INV. EL. 683.00(S)

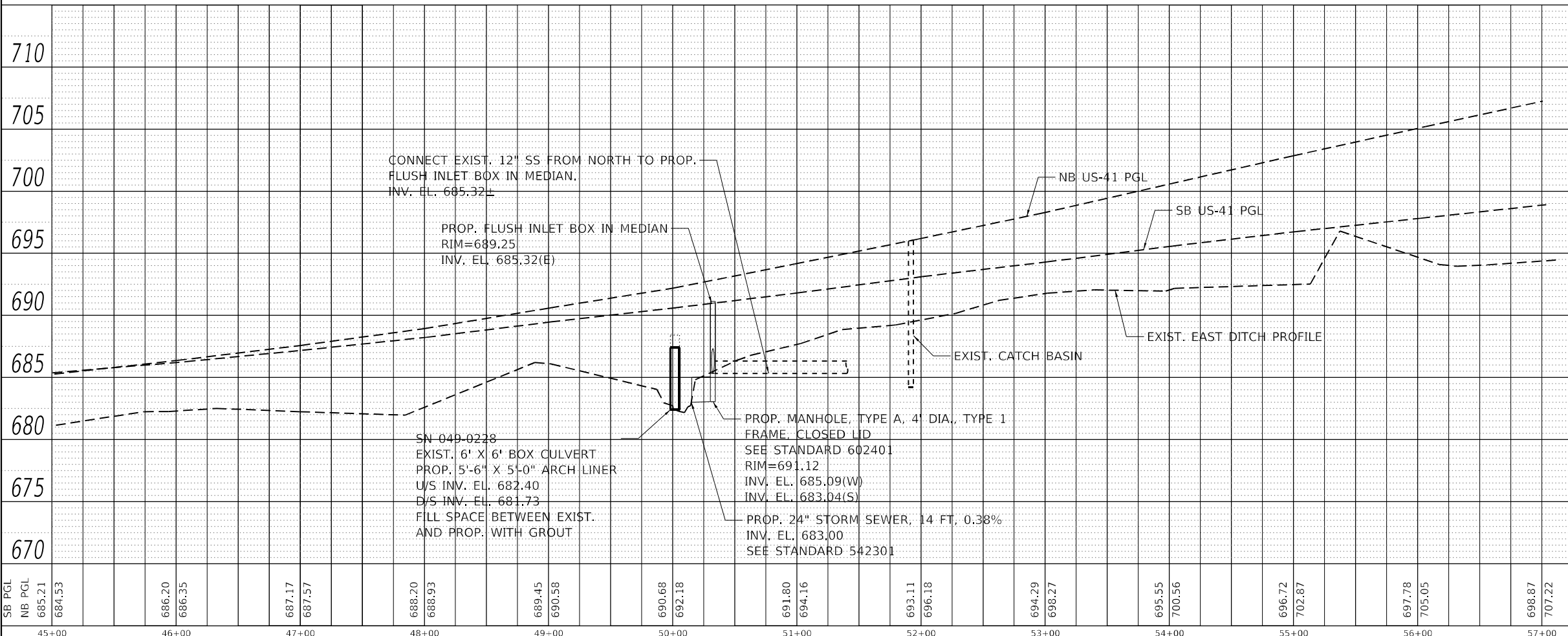
② PROP. 24" STORM SEWER, 60 FT, 0.38%
INV. EL. 685.32(E)
INV. EL. 685.09(W)
TB = 39 CY

③ EXIST. 12" STORM SEWER TO REMAIN

PLAN	SURVEYED		ALIGNED	CHECKED	DATE
	BY	DATE			

PROFILE	SURVEYED		GRADES	CHECKED	DATE
	BY	DATE			

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LEGEND

	EXISTING	PROPOSED
SYMBOLS		
℄ AND STATIONING	---	---
RIGHT-OF-WAY	- - -	- - -
EASEMENT		
BRIDGE LOCATION	=====
STORM SEWER	->->	->->
STONE RIPRAP, CLASS A7		◻
FLARED END SECTION	<	<
CATCH BASIN	○	●
HEADWALL/ENDWALL	~	^
INLET	□	□
MANHOLE	○	○
CONCRETE BARRIER		
GUARDRAIL	==	==

USER NAME = allissa	DESIGNED - AMI	REVISED -
	DRAWN - AMI	REVISED -
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PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN AND PROFILE - LOCATION 1
US-41 CULVERTS

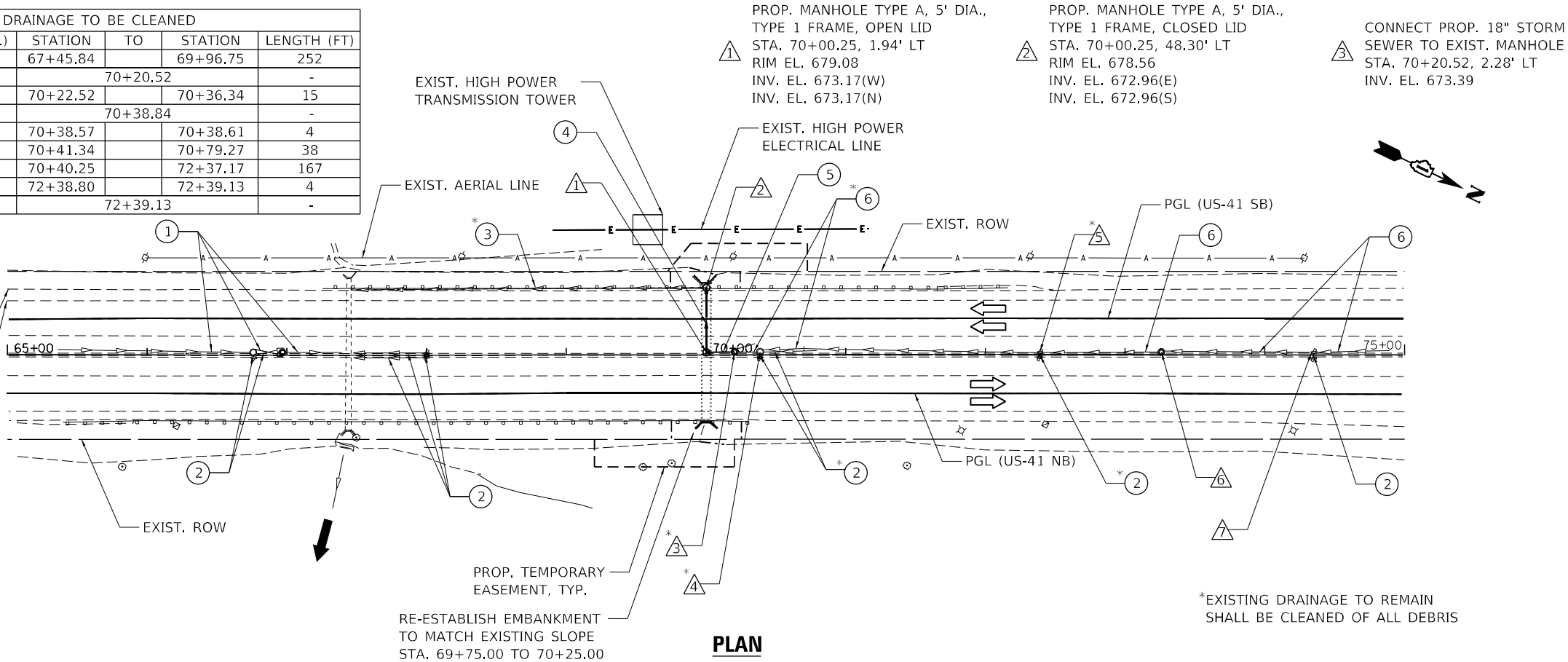
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F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 37
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	

EXIST. DRAINAGE TO BE CLEANED						
*TYPE	#	DIA. (IN.)	STATION	TO	STATION	LENGTH (FT)
SS	3	24	67+45.84		69+96.75	252
MH	3	-			70+20.52	-
SS	6	18	70+22.52		70+36.34	15
CB	4	-			70+38.84	-
SS	2	12	70+38.57		70+38.61	4
SS	2	12	70+41.34		70+79.27	38
SS	6	18	70+40.25		72+37.17	167
SS	2	12	72+38.80		72+39.13	4
IB	5	-			72+39.13	-

** SS STORM SEWER
 MH MANHOLE
 CB CATCH BASIN
 IB INLET BOX



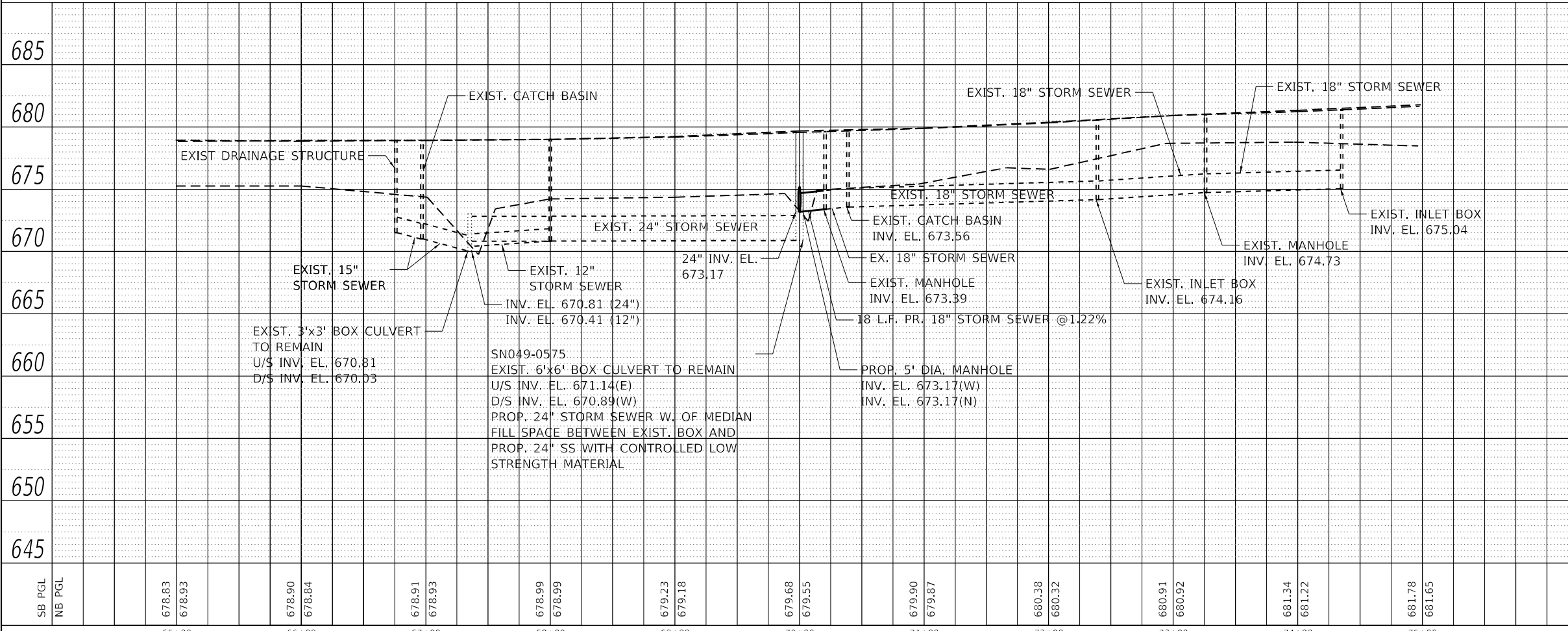
PLAN

- △ EXIST. CATCH BASIN
STA. 70+38.84, 2.34' LT
INV. EL. 673.56
- △ EXIST. INLET BOX
STA. 72+39.13, 2.28' LT
INV. EL. 674.16
- △ EXIST. MANHOLE
STA. 73+25.94, 2.17' LT
INV. EL. 674.73
- △ EXIST. INLET BOX
STA. 74+35.27, 2.17' LT
INV. EL. 675.04
- ① EXIST. 15" STORM SEWER TO REMAIN
- ② EXIST. 12" STORM SEWER TO REMAIN
- ③ EXIST. 24" STORM SEWER TO REMAIN
- ④ PROP. 24" STORM SEWER, CLASS A, TYPE 1, 43 FT, 0.5%
- ⑤ PROP. 18" STORM SEWER, CLASS A, TYPE 1, 18 FT, 1.22%
TB = 15.91 CY
- ⑥ EXIST. 18" STORM SEWER TO REMAIN

*EXISTING DRAINAGE TO REMAIN SHALL BE CLEANED OF ALL DEBRIS

RE-ESTABLISH EMBANKMENT TO MATCH EXISTING SLOPE
STA. 69+75.00 TO 70+25.00

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	



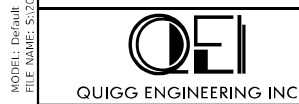
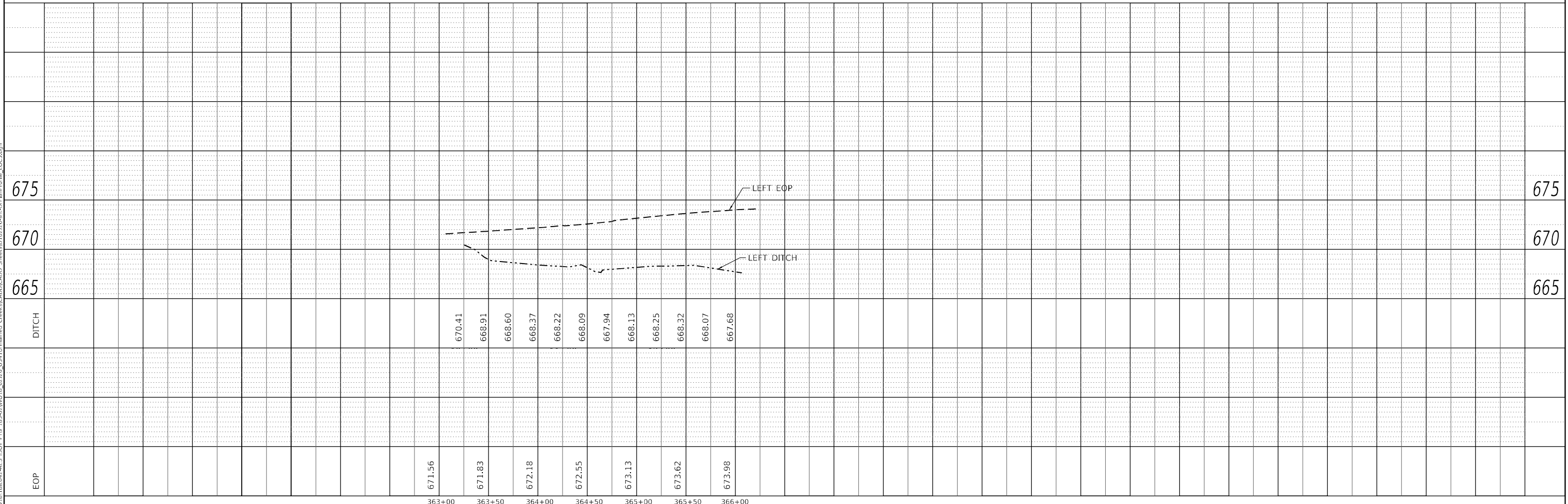
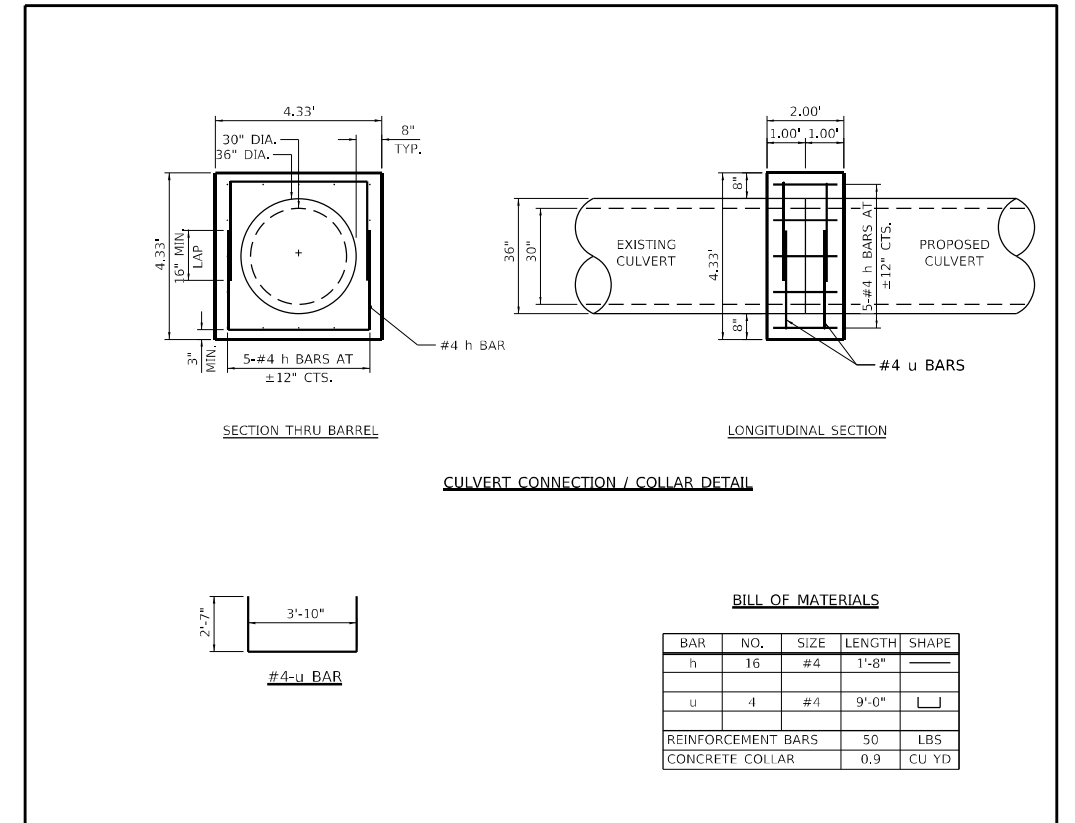
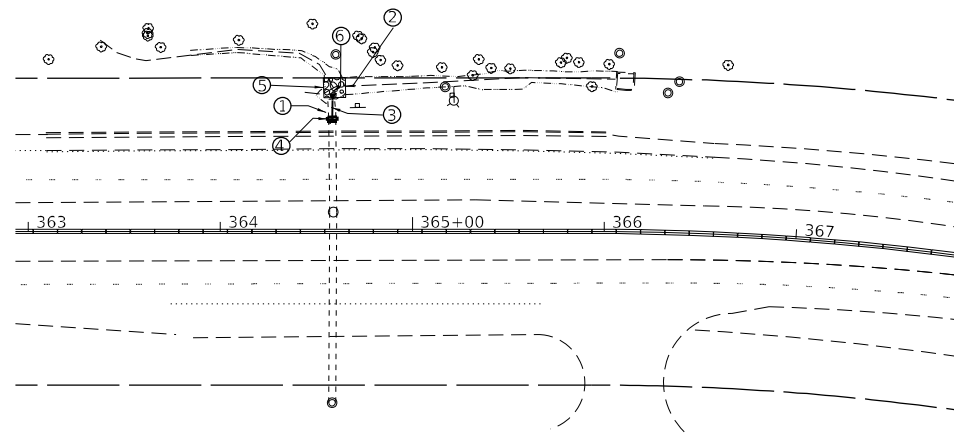
LEGEND

SYMBOLS	EXISTING	PROPOSED
Q AND STATIONING	---	---
RIGHT-OF-WAY	---	---
EASEMENT	////	////
BRIDGE LOCATION	==
STORM SEWER	---	---
STONE RIPRAP, CLASS A7		■
FLARED END SECTION	<	<
CATCH BASIN	○	●
HEADWALL/ENDWALL	~	~
INLET	-	-
MANHOLE	○	○
CONCRETE BARRIER	==	==
GUARDRAIL	==	==

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	

- ① REMOVE EX. DISCONNECTED 30" PIPE CULVERTS
PIPE CULVERT REMOVAL 10 FOOT
- ② REMOVE AND DISPOSE OF DEBRIS IN CHANNEL AREA - BRANCHES MOSTLY
DEBRIS REMOVAL 20 CU YD
- ③ PIPE CULVERT, CLASS A, TYPE 1 30" 6 FOOT
(REINFORCED CONCRETE CULVERT)
- ④ CONCRETE COLLAR
CONCRETE COLLAR 0.9 CU YD
REINFORCEMENT BARS 50 LB
- ⑤ STONE RIPRAP 10' X 11'
STONE RIPRAP, CLASS A3 12 SQ YD
- ⑥ END SECTION 72' LT EL 667.50
PRECAST REINFORCED CONCRETE FLARED END 30"
SECTION 1 EACH



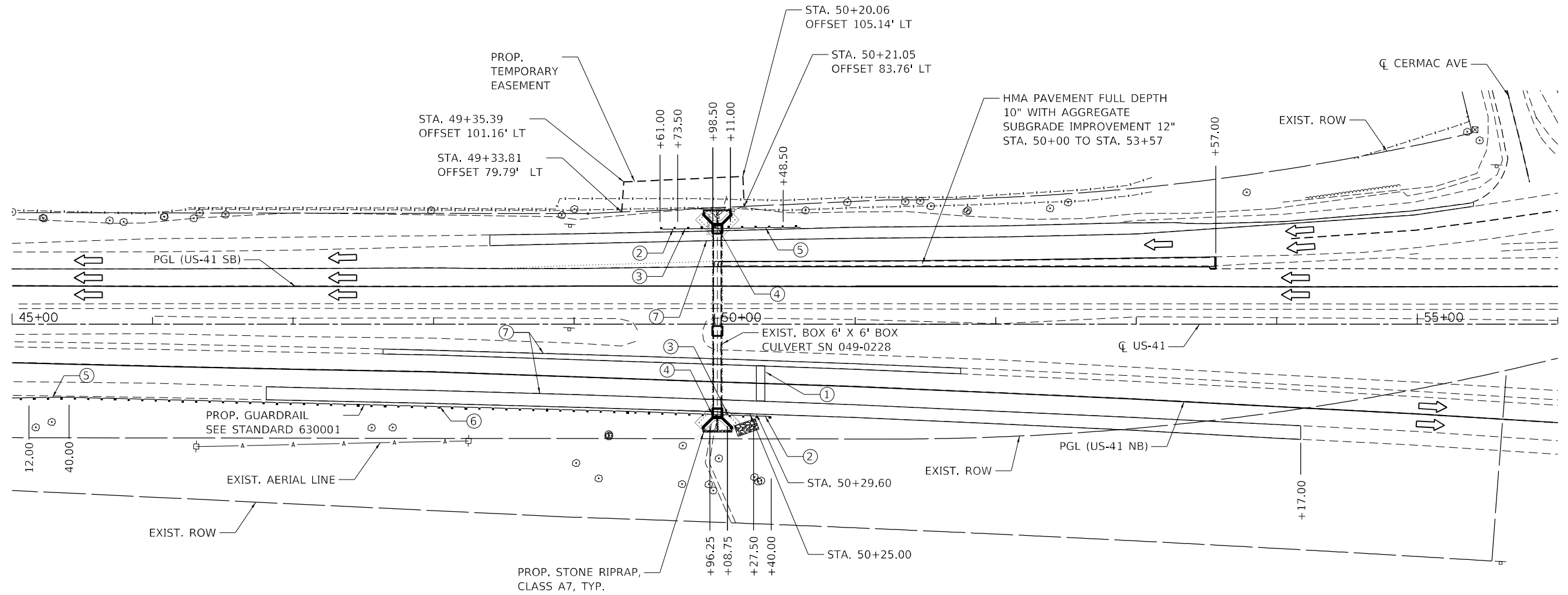
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN AND PROFILE
LOCATION 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	39
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



PROPOSED PLAN

LEGEND

- EXIST. POWER POLE
- DIRECTION OF TRAFFIC
- PROP. GUARDRAIL
- ① CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- ② PROP. END OF GUARDRAIL BARRIER TERMINAL, TYPE 2, SEE STANDARD 631011
- ③ INSTALL 25.00 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- ④ INSTALL 12.5 LF STRONG POST GUARDRAIL ATTACHED TO CULVERT, SEE STANDARD 630101
- ⑤ INSTALL NEW BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT, 37.5 LF
- ⑥ INSTALL 462.50 LF NEW SPBGR TYPE A SEE STANDARD 630001
- ⑦ HMA SHOULDER, 12" WITH 4" SUBBASE GRANULAR MATERIAL, TYPE B

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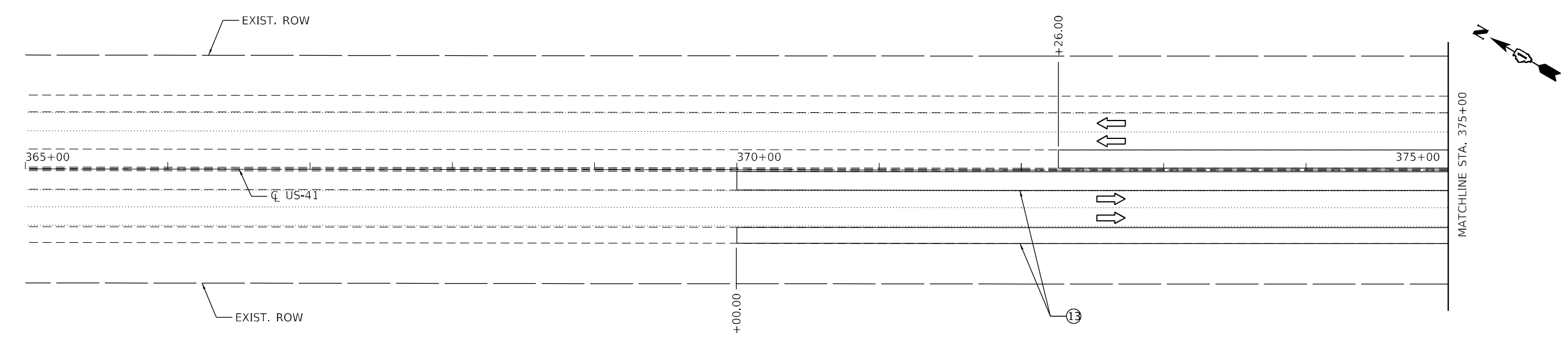
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

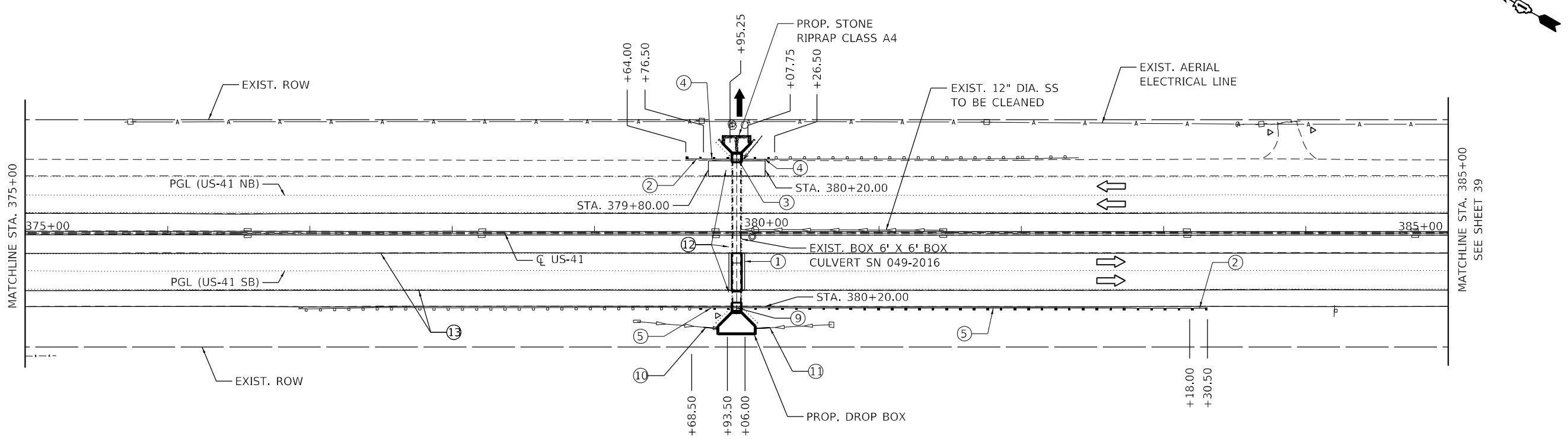
**ROADWAY PLAN WITH GORE RECONSTRUCTION - LOCATION 1
US-41 CULVERTS**

SCALE: 80,0000 ' / in. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 40
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



PROPOSED PLAN - LOCATION 2
SN 049-2016



PROPOSED PLAN - LOCATION 2
SN 049-2016

LEGEND

- ⊕ EXIST. POWER POLE
- ➔ DIRECTION OF TRAFFIC
- EXIST. GUARDRAIL
- PROP. GUARDRAIL
- ① CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- ② PROP. END OF GUARDRAIL BARRIER TERMINAL, TYPE 2, SEE STANDARD 631011
- ③ INSTALL 12.5 LF STRONG POST GUARDRAIL ATTACHED TO CULVERT, SEE STANDARD 630101
- ④ INSTALL 25 LF SPBGR, TYPE A SEE STANDARD 630001
- ⑤ INSTALL 312.5 LF SPBGR, TYPE A SEE STANDARD 630001
- ⑥ REMOVE AND RELOCATE MAILBOX
- ⑦ INSTALL 37.5 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- ⑧ INSTALL 50 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- ⑨ INSTALL 12.5 LF LONG-SPAN GUARDRAIL OVER CULVERT, SEE STANDARD 630106
- ⑩ REMOVE AND REPLACE 10 LF OF 16" STORM SEWER STA. 379+76.65 TO 379+86.62
- ⑪ REMOVE AND REPLACE 10' OF 16" STORM SEWER STA. 380+13.28 TO 380+23.27
- ⑫ CLASS D PATCHES, TYPE I, 8 INCH (SPECIAL)
- ⑬ HMA SHOULDER, 12" WITH 4" SUBBASE GRANULAR MATERIAL, TYPE B

NOTES:

1. EXISTING DRAINAGE OUTLETS SHALL BE MAINTAINED NEAR CULVERTS.
2. EXISTING STORM SEWER MUST BE FIELD VERIFIED PRIOR TO FABRICATING PIPE.

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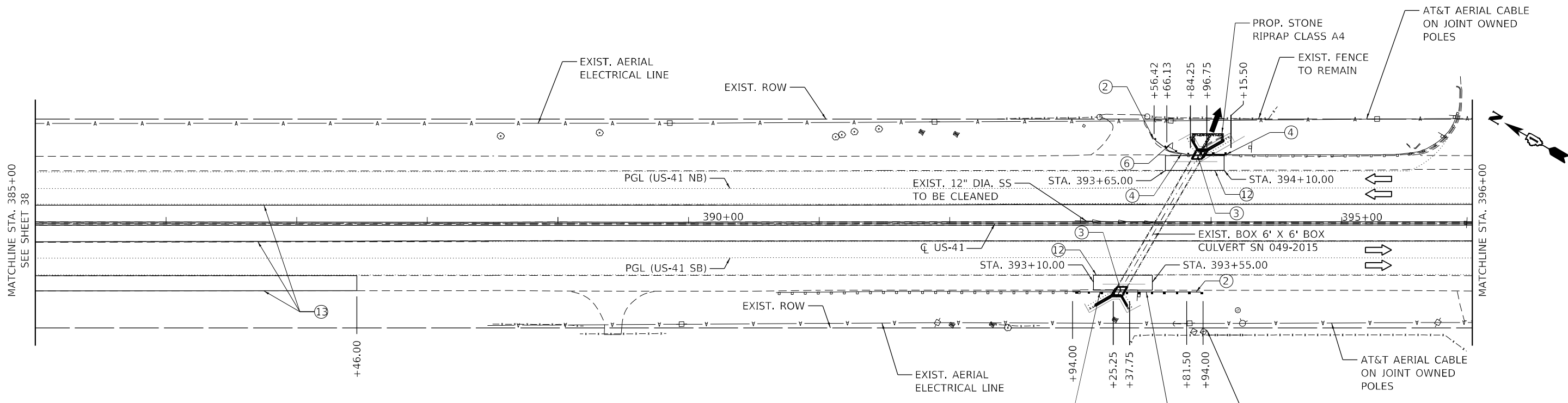


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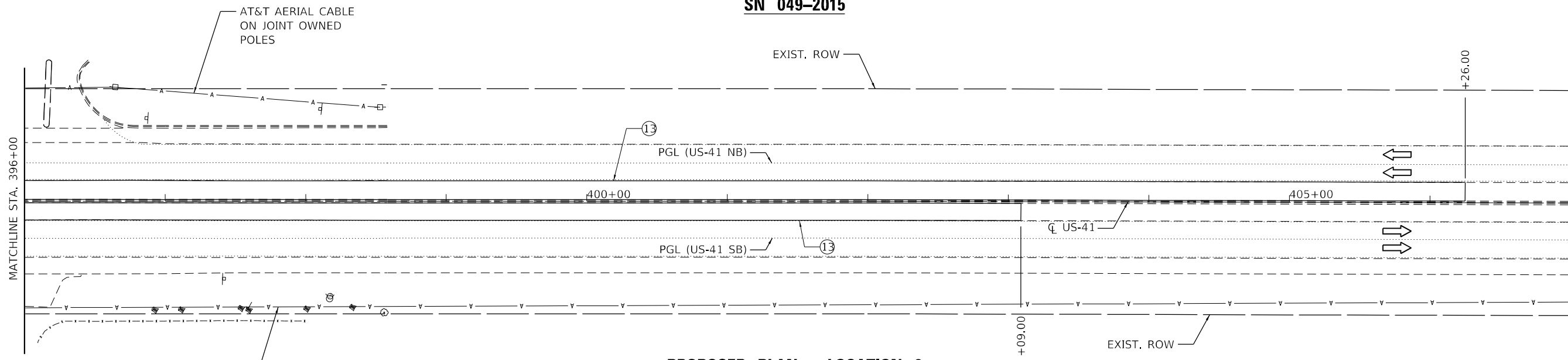
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN - LOCATIONS 2 AND 3			
US-41 CULVERTS			
SCALE: 80,0000' / in.	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	41
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



PROPOSED PLAN – LOCATION 3
SN 049-2015



PROPOSED PLAN – LOCATION 3
SN 049-2015

- NOTES:**
- EXISTING DRAINAGE OUTLETS SHALL BE MAINTAINED NEAR CULVERTS.
 - EXISTING STORM SEWER MUST BE FIELD VERIFIED PRIOR TO FABRICATING PIPE.

LEGEND

- EXIST. POWER POLE
- DIRECTION OF TRAFFIC
- EXIST. GUARDRAIL
- PROP. GUARDRAIL
- CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- PROP. END OF GUARDRAIL BARRIER TERMINAL, TYPE 2, SEE STANDARD 631011
- INSTALL 12.5 LF STRONG POST GUARDRAIL ATTACHED TO CULVERT, SEE STANDARD 630101
- INSTALL 25 LF SPBGR, TYPE A SEE STANDARD 630001
- INSTALL 312.5 LF SPBGR, TYPE A SEE STANDARD 630001
- REMOVE AND RELOCATE MAILBOX
- INSTALL 37.5 LF NEW SPBGR, TYPE A SEE STANDARD 630001

- INSTALL 50 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- INSTALL 12.5 LF LONG-SPAN GUARDRAIL OVER CULVERT, SEE STANDARD 630106
- REMOVE AND REPLACE 10 LF OF 16" STORM SEWER STA. 379+76.65 TO 379+86.62
- REMOVE AND REPLACE 10' OF 16" STORM SEWER STA. 380+13.28 TO 380+23.27
- CLASS D PATCHES, TYPE I, 8 INCH (SPECIAL)
- HMA SHOULDER, 12" WITH 4" SUBBASE GRANULAR MATERIAL, TYPE B

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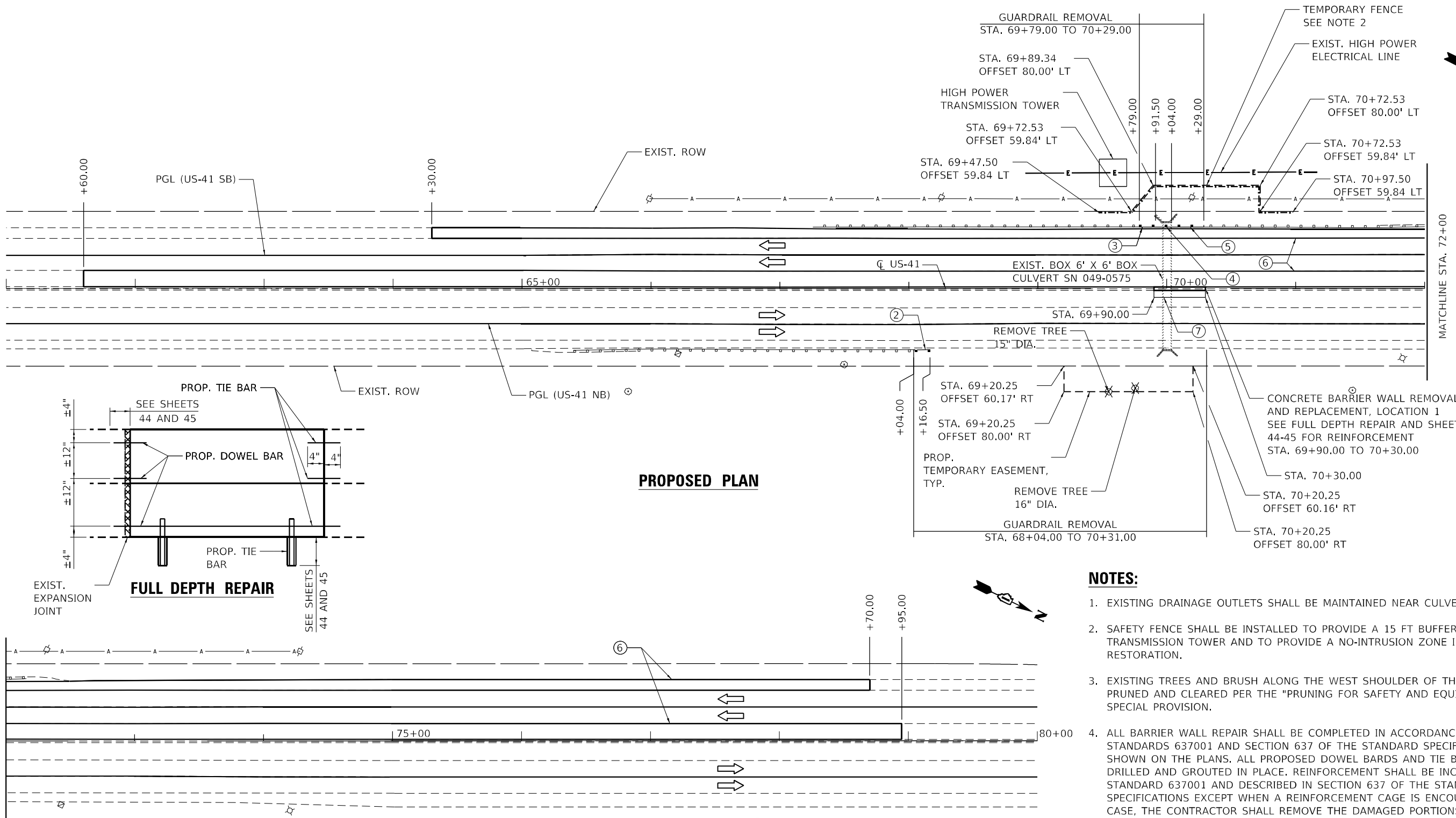


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DRAWN - AMI	REVISED -	
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PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN – LOCATIONS 2 AND 3	
US-41 CULVERTS	
SCALE: 80,0000' / in.	SHEET 3 OF 4 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	42
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



PROPOSED PLAN

PROPOSED PLAN

LEGEND

- X TREE REMOVAL
- ⊕ EXIST. POWER POLE
- ➡ DIRECTION OF TRAFFIC
- ⋯ EXIST. GUARDRAIL
- ⋯ PROP. GUARDRAIL
- ▬ CONCRETE BARRIER, DOUBLE FACE, 32 in. (815 mm) HEIGHT
- ① CLASS D PATCHES, TYPE I, 13 INCH (SPECIAL)
- ② PROP. END OF GUARDRAIL BARRIER TERMINAL, TYPE 2 SEE STANDARD 631011
- ③ INSTALL 12.50 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- ④ INSTALL 12.5 LF LONG-SPAN GUARDRAIL OVER CULVERT SEE STANDARD 630106
- ⑤ INSTALL 25.00 LF NEW SPBGR, TYPE A SEE STANDARD 630001
- ⑥ HMA SHOULDER, 12" WITH 4" SUBBASE GRANULAR MATERIAL, TYPE B
- ⑦ CLASS D PATCHES, TYPE I, 8 INCH (SPECIAL)

NOTES:

1. EXISTING DRAINAGE OUTLETS SHALL BE MAINTAINED NEAR CULVERTS.
2. SAFETY FENCE SHALL BE INSTALLED TO PROVIDE A 15 FT BUFFER ZONE AROUND THE TRANSMISSION TOWER AND TO PROVIDE A NO-INTRUSION ZONE INTO THE PRAIRIE RESTORATION.
3. EXISTING TREES AND BRUSH ALONG THE WEST SHOULDER OF THE ON-RAMP SHALL BE PRUNED AND CLEARED PER THE "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE" SPECIAL PROVISION.
4. ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARDS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARD 637001 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
5. IF A GAP IN THE PARAPET IS TO OCCUR FOR ANY PERIOD OF TIME, A TEMPORARY RAILING MUST BE INSTALLED SO THAT AT NO TIME SHALL THERE BE AN OPENING IN ANY PORTION OF THE EXISTING SYSTEM. IF THE GAP IS IN A BARRIER WALL SECTION, TEMPORARY RAILING OR BARRELS SHALL BE USED AT THE DISCRETION OF THE ENGINEER.

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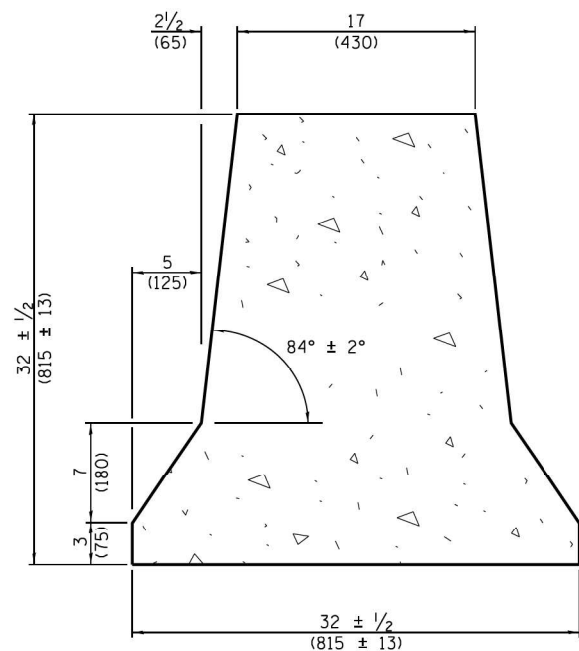
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN - LOCATION 4
US-41 CULVERTS**

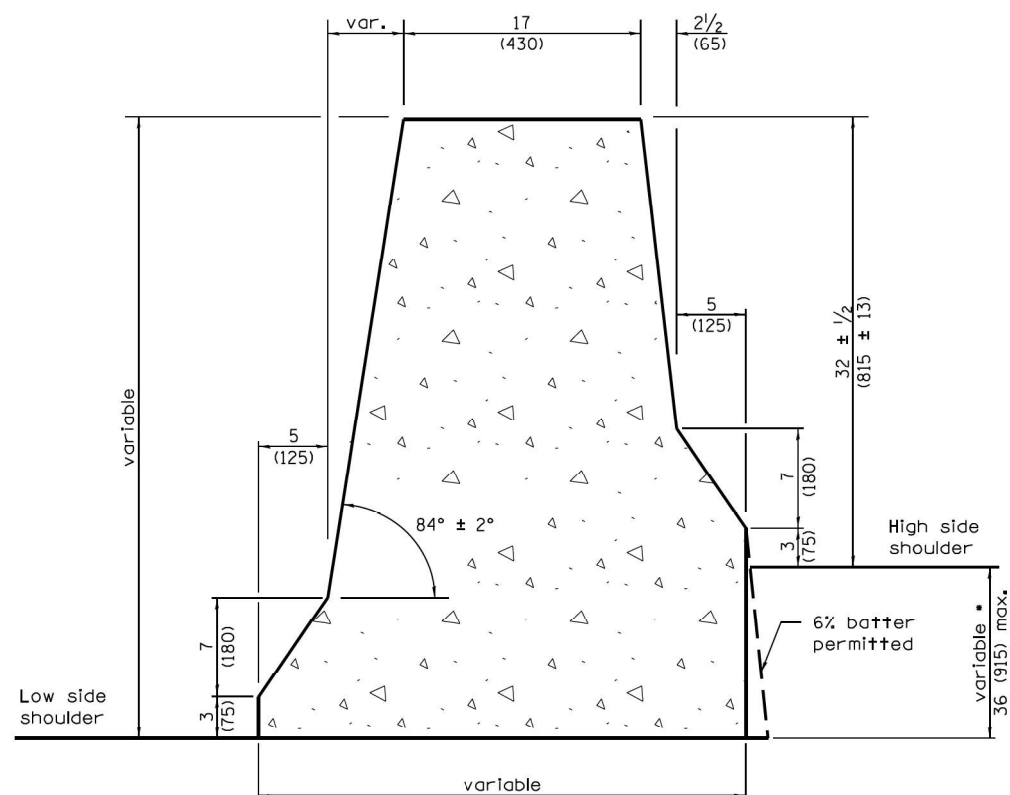
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	43
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

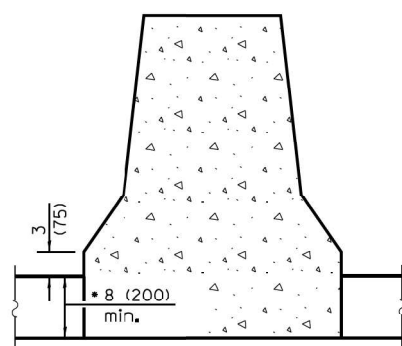


TYPICAL CROSS-SECTION



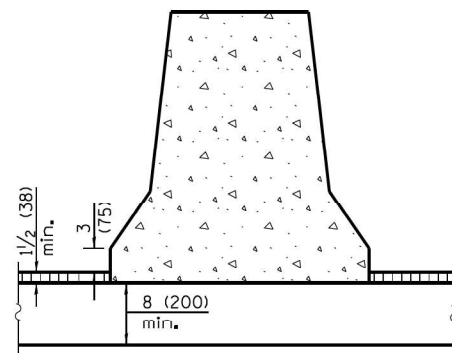
VARIABLE CROSS-SECTION

• When this dimension exceeds 12 (300), the barrier may be cast in two pours. No. 6 x 12 (No. 19 x 300) tie bars at 30 (760) centers, or a suitable keyway, shall be used between the pours.

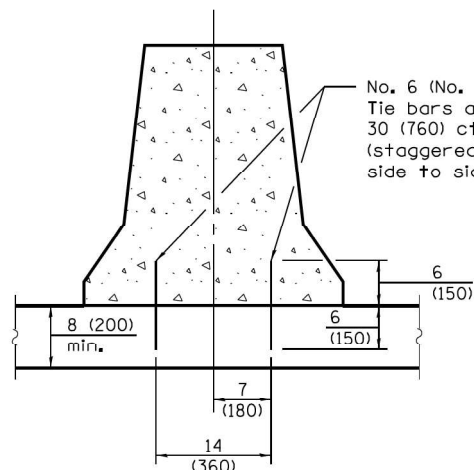


NEW MONOLITHIC PCC BASE

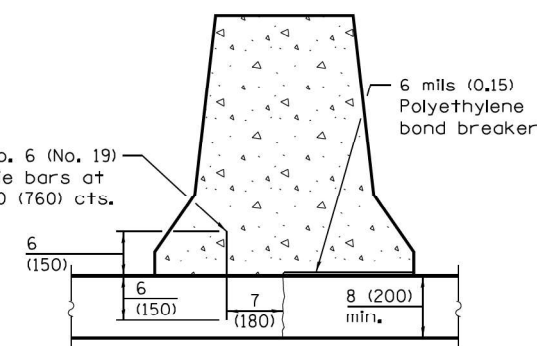
• This dimension shall be 10 (250) minimum when the barrier is confined by earth.



NEW OR EXISTING BIT./PCC BASE WITH OVERLAY CONFINEMENT



NEW OR EXISTING PCC BASE



EXISTING PCC BASE WITH LONGITUDINAL JOINT

GENERAL NOTES

The Variable Cross-Section shall be used when there is a difference in elevation between the two sides of the barrier.

See standard 836006 for light pole foundation details where required in concrete barrier.

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

ANCHORING METHODS

Illinois Department of Transportation

PASSED January 1, 2013
Michael Beard
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Revised general note to reference standard 836006 for light pole foundation.
1-1-09	Switched units to English (metric).

**CONCRETE BARRIER,
DOUBLE FACE,
32 in. (815 mm) HEIGHT**
 (Sheet 1 of 2)

STANDARD 637001-05

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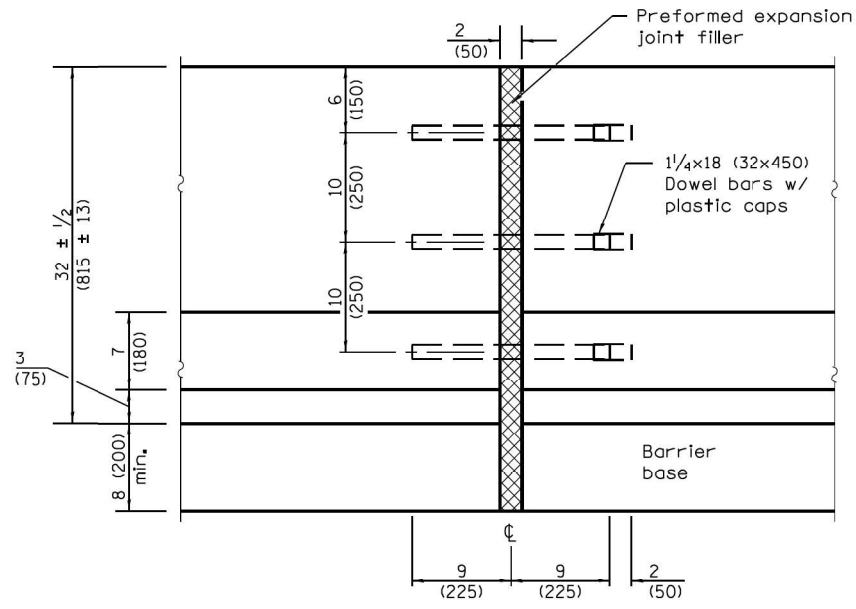
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE BARRIER, DOUBLE FACE, 32 in. (815 mm) HEIGHT (SHEET 1 OF 2)
US-41 CULVERTS - LOCATION 4**

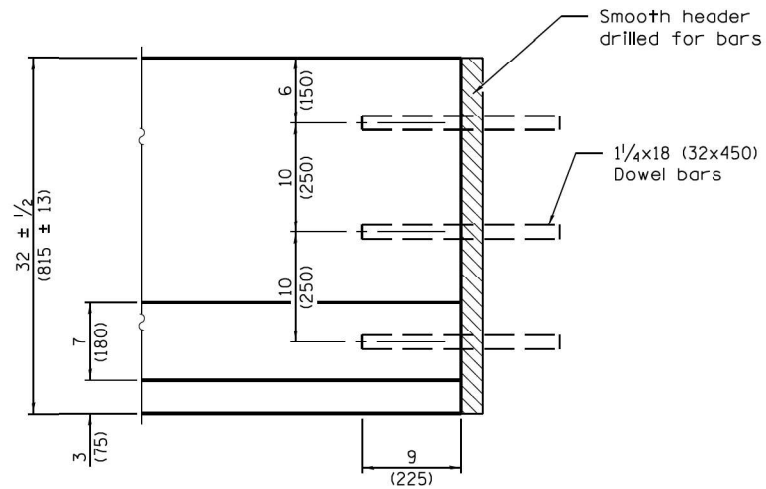
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F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 44
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

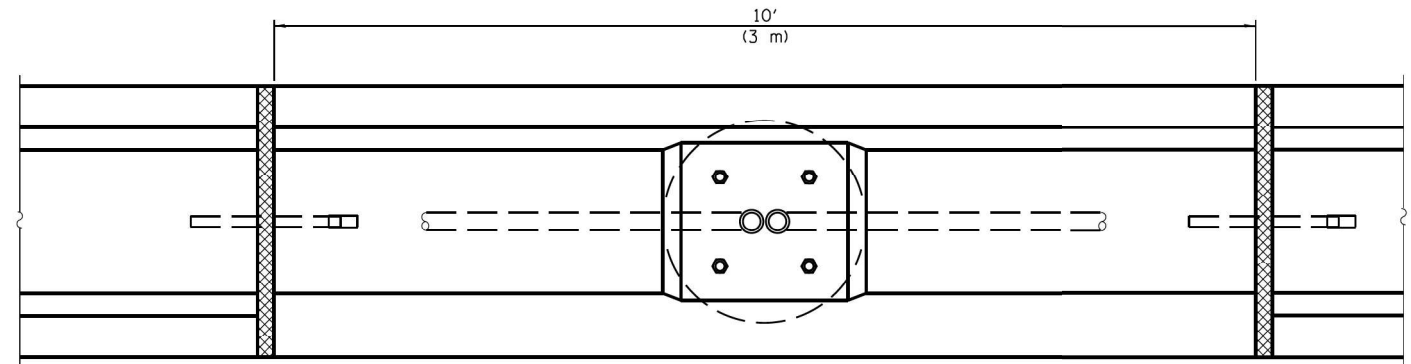
FOR INFORMATION ONLY



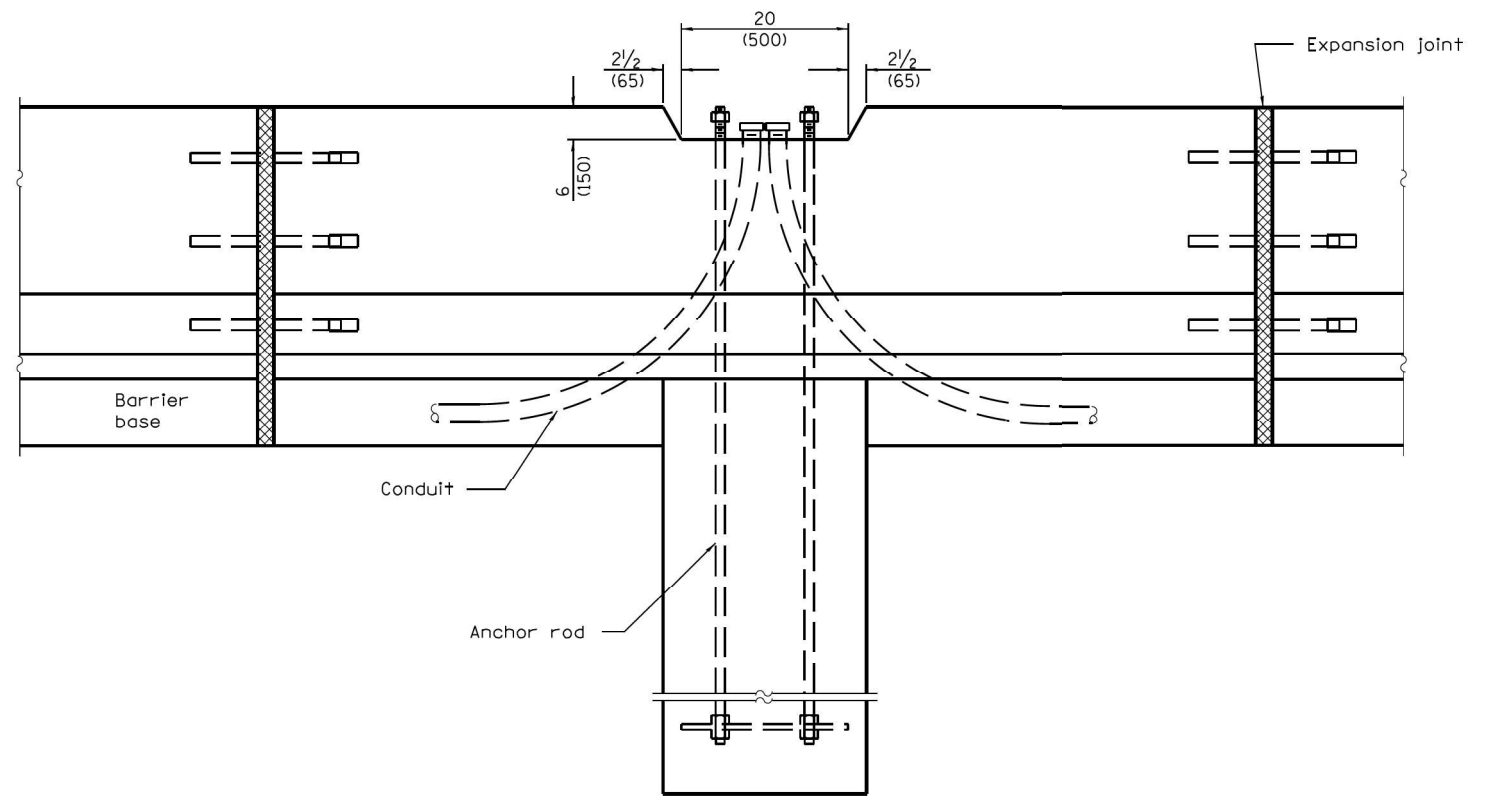
EXPANSION JOINT



CONSTRUCTION JOINT



PLAN AT LIGHTING FOUNDATION



ELEVATION AT LIGHTING FOUNDATION

Illinois Department of Transportation
 PASSED January 1, 2013
 Michael Beard
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2013
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

**CONCRETE BARRIER,
 DOUBLE FACE,
 32 in. (815 mm) HEIGHT**
 (Sheet 2 of 2)
STANDARD 637001-05

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 DATE: 10/8/2020

HBM
 ENGINEERING GROUP, LLC

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PLOT DATE = 10/8/2020	CHECKED - KJD, JMG	REVISED -
	DATE - 10/8/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER, DOUBLE FACE, 32 in. (815 mm) HEIGHT (SHEET 2 OF 2)
 US-41 CULVERTS - LOCATION 4
 SCALE: 2,0000 ' / in. SHEET 2 OF 2 SHEETS STA. TO STA.

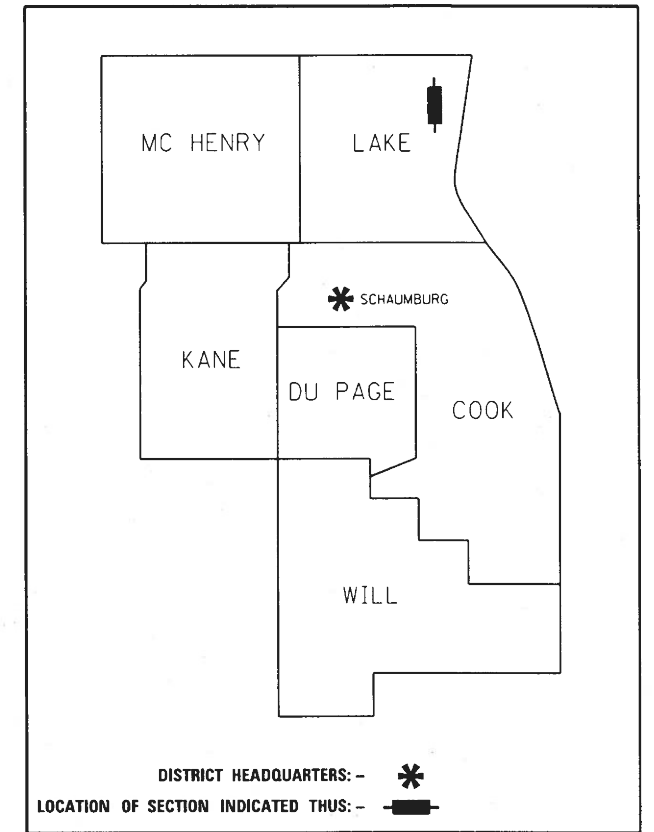
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	45
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

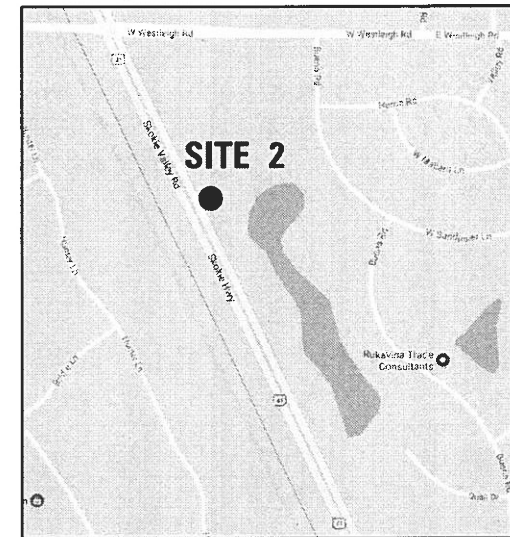
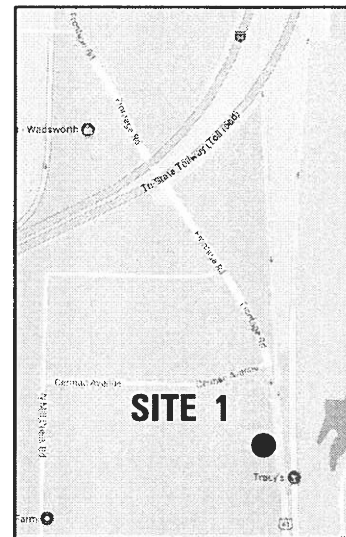
PLAT OF HIGHWAYS

US ROUTE 41 (SKOKIE HIGHWAY)
SECTION _____
LAKE COUNTY
N OF IL 173 & S OF WESTLEIGH RD
R-91-017-17

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1M00001TE	MILL CREEK VENTURE LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2	
1M00002TE	THE PONDS HOMEOWNERS ASSOCIATION ON BEHALF OF THE LOT OWNERS OF ROBERT W. KENDLER'S PONDS SUBDIVISION	3	
1M00003TE	COMMONWEALTH EDISON COMPANY, AN ILLINOIS CORPORATION	3	



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



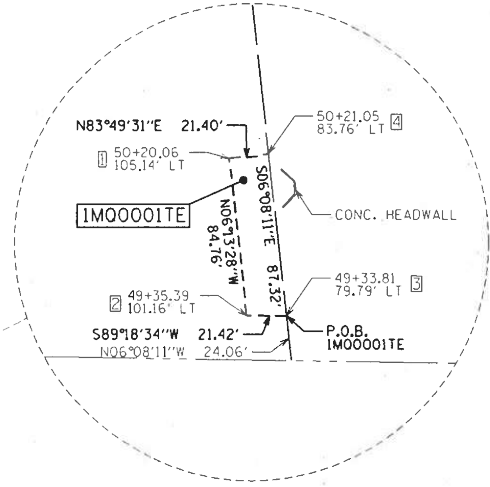
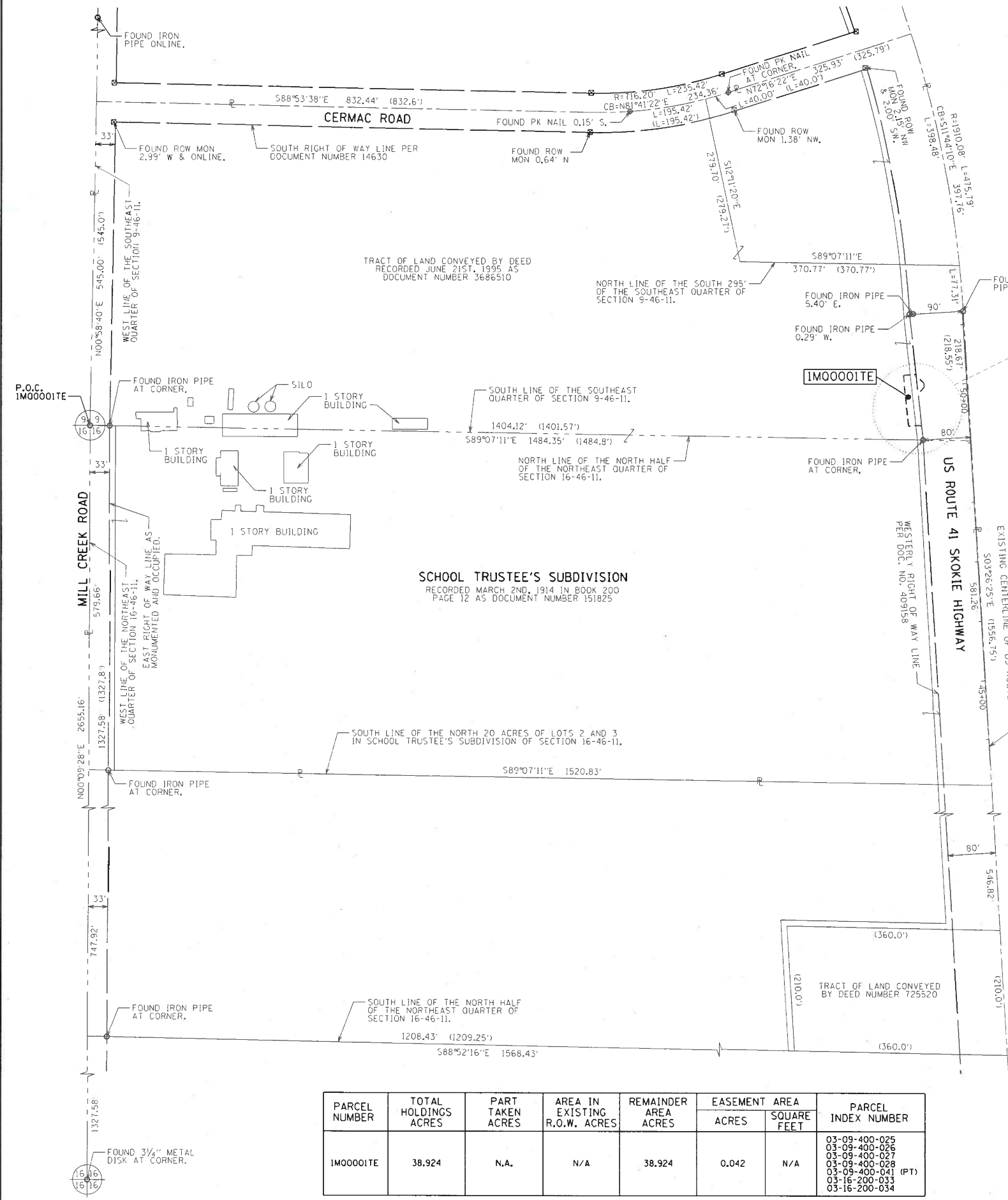
LOCATION MAPS

GROSS LENGTH SITE 1 = 88 FT. = 0.017 MILE
GROSS LENGTH SITE 2 = 152 FT. = 0.029 MILE

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PLATS & LEGALS

REVISION DATE: 10/02/17 REVISION MADE BY: MAC

PART OF THE SE 1/4 OF SECTION 9 & THE NE 1/4 OF SECTION 16, TWP. 46 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

POINT NUMBER	NORTHING	EASTING
1	2115179.44	1088343.14
2	2115095.17	1088352.33
3	2115094.92	1088373.76
4	2115181.74	1088364.42

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1M00001E	38.924	N.A.	N/A	38.924	0.042	N/A	03-09-400-025 03-09-400-026 03-09-400-027 03-09-400-028 03-09-400-041 (PT) 03-16-200-033 03-16-200-034

LEGEND

- SECTION / QUARTER SECTION LINE
 - PLATTED LOT LINES
 - PROPERTY (DEED) LINE
 - APPARENT PROPERTY LINE
 - EXISTING CENTERLINE
 - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - EXISTING EASEMENT
 - PROPOSED EASEMENT
 - EXISTING ACCESS CONTROL LINE
 - PROPOSED ACCESS CONTROL LINE
 - MEASURED DIMENSION
 - COMPUTED DIMENSION
 - RECORDED DIMENSION
 - EXISTING BUILDING
- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND
 - CUT CROSS FOUND OR SET
 - STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, HAS SURVEYED THE EXCESS PARCEL PLAT SHOWN HEREON IN SECTIONS 9 & 16, TOWNSHIP 46 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT SCHAUMBURG, ILLINOIS THIS 2ND DAY OF OCTOBER 2017 A.D.

Miguel A. Coreano
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3874
LICENSE EXPIRATION DATE: NOVEMBER 30, 2018



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



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US ROUTE 41 (SKOKIE HIGHWAY)

LIMITS: N OF IL 173 & S OF WESTLEIGH RD COUNTY: LAKE
SECTION: JOB NO.: R-91-017-17
STA. 49+33.81 TO STA. 50+21.05
SCALE: 1" = 100' SHEET 2 OF 3 SHEETS

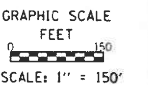
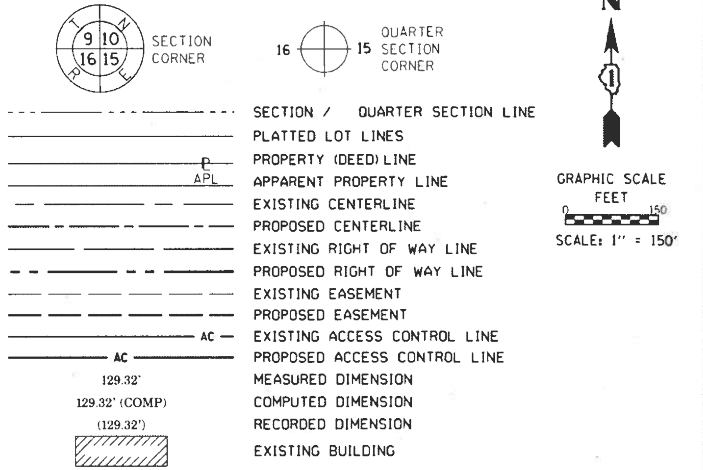
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

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OCT 03 2017
PLATS & LEGALS

REVISION DATE: 10/02/17 REVISION MADE BY: MAC

PART OF THE SE 1/4 OF SECTION 5, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND



BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- ⊕ 'MAG' NAIL SET
- + CUT CROSS FOUND OR SET
- 5 / 8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

- SURVEY NOTES:**
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 - BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
 - ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996755.
 - AREAS SHOWN ON THIS PLAT ARE "GROUND".
 - FIELD SURVEY COMPLETED ON SEPTEMBER 8TH, 2017.

STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, HAS SURVEYED THE EXCESS PARCEL PLAT SHOWN HEREON IN SECTIONS 5, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT SCHAUMBURG, ILLINOIS THIS 2ND DAY OF OCTOBER 2017 A.D.

Miguel A. Coreland
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3874
LICENSE EXPIRATION DATE: NOVEMBER 30, 2018



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



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US ROUTE 41 (SKOKIE HIGHWAY)

LIMITS: N OF IL 173 & S OF WESTLEIGH RD COUNTY: LAKE
SECTION: JOB NO.: R-91-017-17
STA. 69+20.25 TO STA. 70+72.53
SCALE: 1" = 150' SHEET 3 OF 3 SHEETS

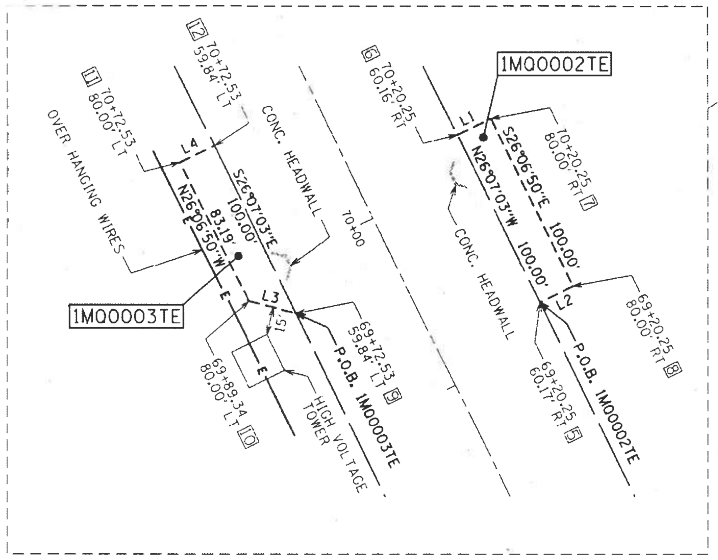
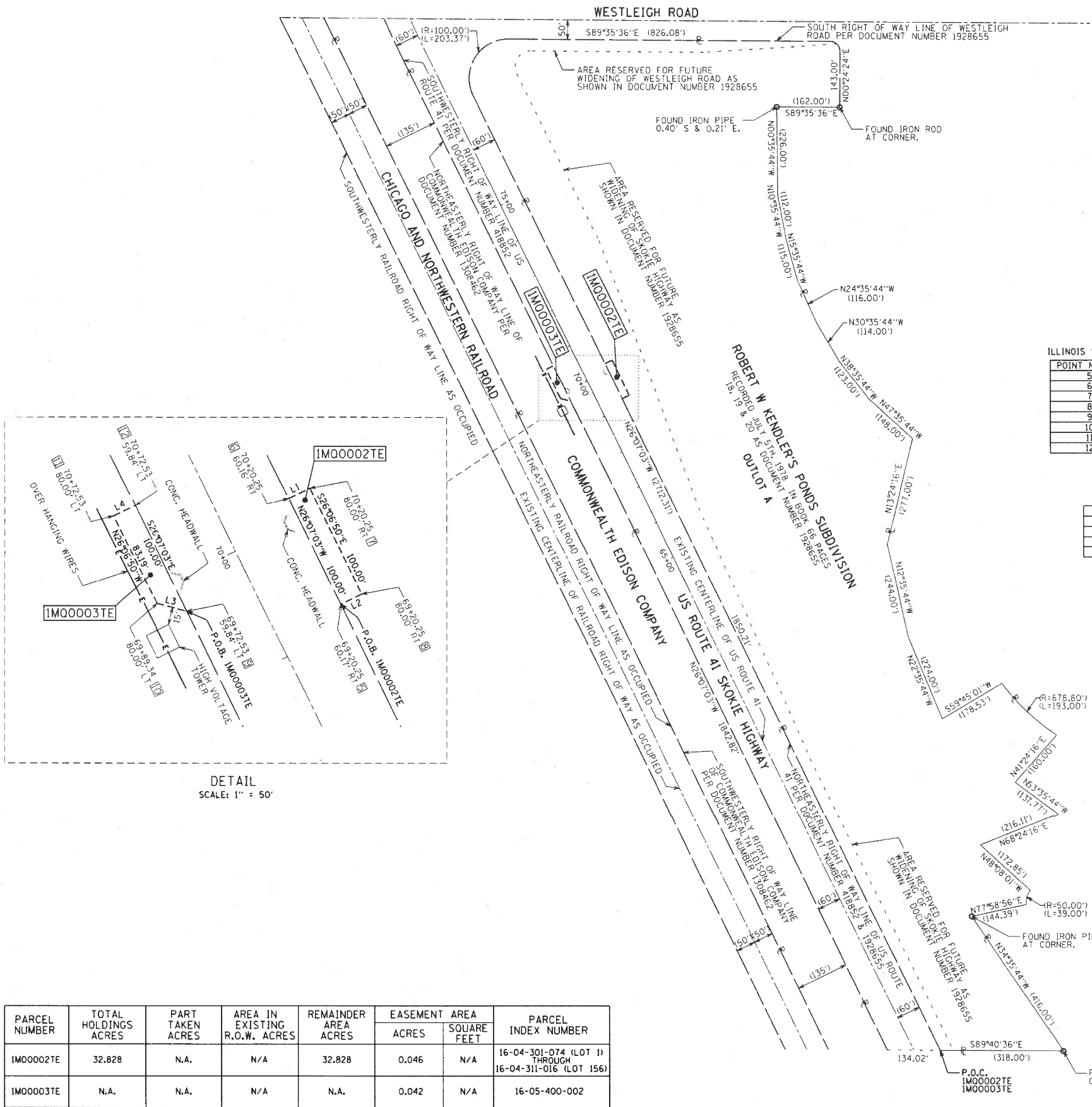
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

POINT NUMBER	NORTHING	EASTING
5	2026738.93	1114315.22
6	2026828.72	1114271.20
7	2026837.45	1114289.01
8	2026747.66	1114333.03
9	2026733.05	1114184.45
10	2026739.27	1114158.95
11	2026813.97	1114122.33
12	2026822.84	1114140.43

LINE TABLE

TAG	BEARING	DIST
L1	N63°3'10"E	19.84'
L2	S63°3'10"W	19.83'
L3	N76°18'07"W	26.25'
L4	N63°3'10"E	20.16'



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1M0002TE	32.828	N.A.	N/A	32.828	0.046	N/A	16-04-301-074 (LOT 1) THROUGH 16-04-311-016 (LOT 156)
1M0003TE	N.A.	N.A.	N/A	N.A.	0.042	N/A	16-05-400-002

REVISION DATE: 04/20/2020 REVISION MADE BY: MAC
REVISION DATE: 10/02/2017 REVISION MADE BY: MAC

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APPROVED
By: *Coreland* on 10/20/2017

EROSION AND SEDIMENT CONTROL NOTES:

- ALL CONTROL MEASURES NECESSARY MUST MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THE LATEST EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ADDITIONAL DETAILS AND BMPs ARE ALSO AVAILABLE AND CAN BE UTILIZED AS SHOWN IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. 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).
- ALL THE SOIL EROSION AND SEDIMENT CONTROL FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND THE INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER AND WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITIES.
- DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION ACTIVITY, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN ONE (1) CALENDAR DAY.
- THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE ENGINEER OR AUTHORIZED IDOT PERSONNEL.
- STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10-FT VERTICALLY OR THE FINISHED SLOPE EQUALS 30-FT, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES TO BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS THROUGHOUT THE PROJECT.
- THE CONTRACTOR'S REPRESENTATIVE HAS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND HAVE TAKEN AN ILLINOIS DEPARTMENT OF TRANSPORTATION OR APPROVED EQUAL EROSION AND SEDIMENT CONTROL COURSE. THIS PERSON SHALL HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTION CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY THE ENGINEER. THIS INDIVIDUAL AND THE ENGINEER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
 - DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
 - STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE.
 - AN ADDITIONAL INSPECTION OF ALL EROSION AND CONTROL MEASURES MUST BE MADE WEEKLY AND WITHIN 24-HOURS AFTER A 24-HOUR RAINFALL OR EQUIVALENT SNOWFALL EVENT EQUAL OR GREATER THAN 0.5-INCH. DURING WINTER MONTHS, ALL MEASURES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON, AS WELL AS OVER THE WINTER SHUTDOWN PERIOD AND OTHER DAYS WHEN THE PROJECT IS CLOSED DOWN FOR A LONGER DURATION. ANY CONTROL MEASURES FILLED MORE THAN 75% MUST BE CLEANED AND RESET AND THESE SPOILS REMOVED TO AN APPROVED SITE.
- SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND ACTIVE DRAINAGE PATHS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. IMMEDIATELY AFTER THE FINAL SHAPING OF THE STOCKPILE, THE TOPSOIL WILL BE STABILIZED IN ACCORDANCE WITH THE METHOD APPROVED BY IDOT. THE CONTRACTOR WILL PROVIDE ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.

- EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR, THE COST OF THE CONTROLS WILL BE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER, THE DEPARTMENT WILL ASSUME THE COST OF INSTALLING AND MAINTAINING THE CONTROLS.
- IF AND/OR WHEN THE CONTRACTOR REQUESTS CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH 25 FEET AWAY FROM THE SHOULDER OF THE ROAD PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
 - THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH MULCH METHOD 2.
 - ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
- TOPSOIL PLACEMENT: TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARY STEEP SLOPES.
- IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- THE CONTRACTOR'S REPRESENTATIVE AND THE ENGINEER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTIONS. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORT MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
- ANY SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING CONTROL MEASURE PRIOR TO RELEASE FROM THE PROJECT SITE.
- NO WORK IS ALLOWED BEYOND THE PERMITTED AREA. ANY WORK WITHIN A CREEK OR DITCH CAPABLE OF CONVEYING WATER MUST BE CONDUCTED IN THE DRY. PROVISIONS MUST BE MADE TO BYPASS PUMP OR DEWATER ANY AREAS IN WHICH WORK WILL BE CONDUCTED. IN HIGH FLOW CHANNELS WHERE DEWATERING IS NOT POSSIBLE OR PRACTICAL, SILT FENCE OR SEDIMENT CURTAINS MAY BE INSTALLED PARALLEL TO THE STREAM BANK. IN NO CASE WILL THE CURTAINS BE INSTALLED PERPENDICULAR TO THE FLOW. DEWATERING MUST BE DISCHARGED TO A STABLE, NON-ERODIBLE SURFACE AND IN-STREAM WORK BARRIERS MUST BE COMPOSED OF NON-ERODIBLE MATERIAL.
- SEEDING USAGE

CLASS 3 AND CLASS 4B (MODIFIED):
USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

TEMPORARY EROSION CONTROL SEEDING:
USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
- THE CONTRACTOR MUST COOPERATE WITH THE ENGINEER AND HIS/HER REPRESENTATIVE WHO WILL MAKE SITE VISITS TO REVIEW THE COMPLIANCE OF THE PLANS IN THE FIELD AND AUDIT IF NECESSARY. THE CONTRACTOR MUST PREPARE THE LOGS AND RECORDS WHEN REQUIRED AND SUBMIT TO IDOT AND/OR APPROPRIATE AGENCIES.
- THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION CONTROL BARRIER MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
- TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN ONE (1) DAY AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF FOURTEEN (14) OR MORE CALENDAR DAYS.
- THE CONTRACTOR WILL PROVIDE THE ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. USE A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE, ESPECIALLY WHEN RAIN IS FORECAST, SO THAT FLOW WILL NOT BE EROSION AND WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS. THE LACK OF AN APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR IS REQUIRED TO PROVIDE WASHOUT FACILITIES AND STABILIZED CONSTRUCTION ENTRANCES TO COMPLY WITH EROSION CONTROL REQUIREMENTS.
- THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND - NO INTRUSION". THE SIGN(S) WILL BE ATTACHED TO THE STAKES BY THE METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICK UP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
- THE US ARMY CORPS OF ENGINEERS MUST BE NOTIFIED 10 DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT FOUND IN THE SPECIAL PROVISIONS MUST BE FOLLOWED. AS A CONDITION OF THE PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK.

SOIL PROTECTION SCHEDULE:

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING						→					→	
DORMANT SEEDING	→		→							→		→
TEMPORARY SEEDING										→		
EROSION BLANKET / HYDROMULCH											→	

SOIL EROSION AND SEDIMENT CONTROL STRATEGY:

- INSTALL TRAFFIC CONTROL DEVICES.
- ERECT PERIMETER EROSION BARRIERS, DITCH CHECKS AND PIPE PROTECTION AS SHOWN ON THE PLANS.
- ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.
- REMOVE EXISTING PAVEMENTS AND STRUCTURES AS SHOWN ON THE PLANS.
- CONSTRUCT PROJECT IMPROVEMENTS AS SHOWN ON THE PLANS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
- TEMPORARY STABILIZATION OF EACH STAGE SHOULD BE COMPLETED BEFORE WORK BEGINS ON SUBSEQUENT STAGES.
- STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION.
- WHEN THE PERMANENT STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

HIGHWAY STANDARD

STD. NO. TITLE
280001 TEMPORARY EROSION CONTROL SYSTEMS

FILE NAME = Q:\Engineering\Live\Projects\13043.IDOT DUR AES\Work D-dier-18- 62126\CA00\CA00 Sheets\Civil\62126-sht-ESC Notes.dgn



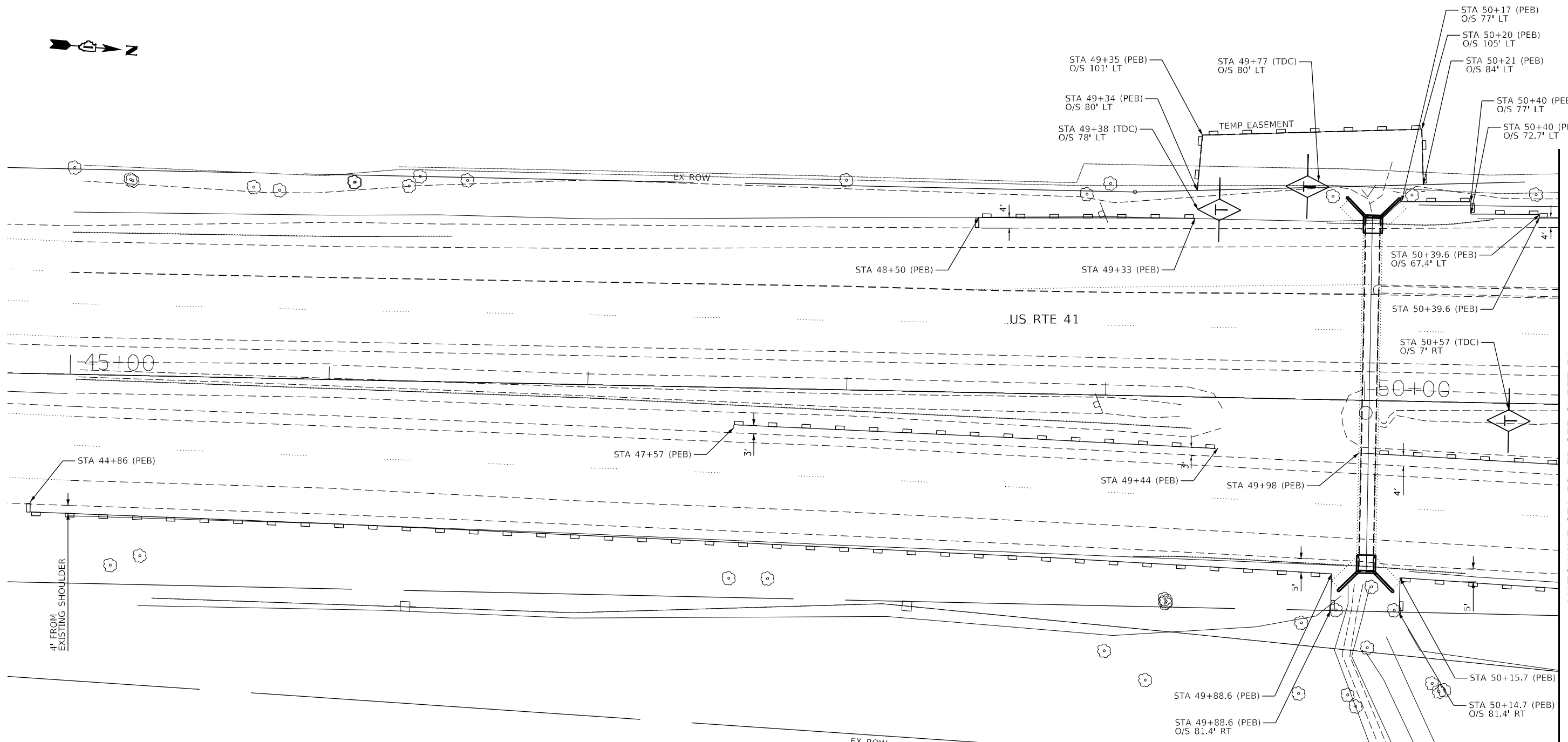
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL NOTES
US RTE 41**


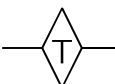


SCALE: SHEET OF SHEETS STA. TO STA.

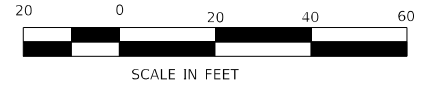
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	49
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 50+75 SEE SHEET 51

LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18- 62126\CA00\CA00 Sheets\Civil\62126-ent-ESC 049-0228-Ldgn



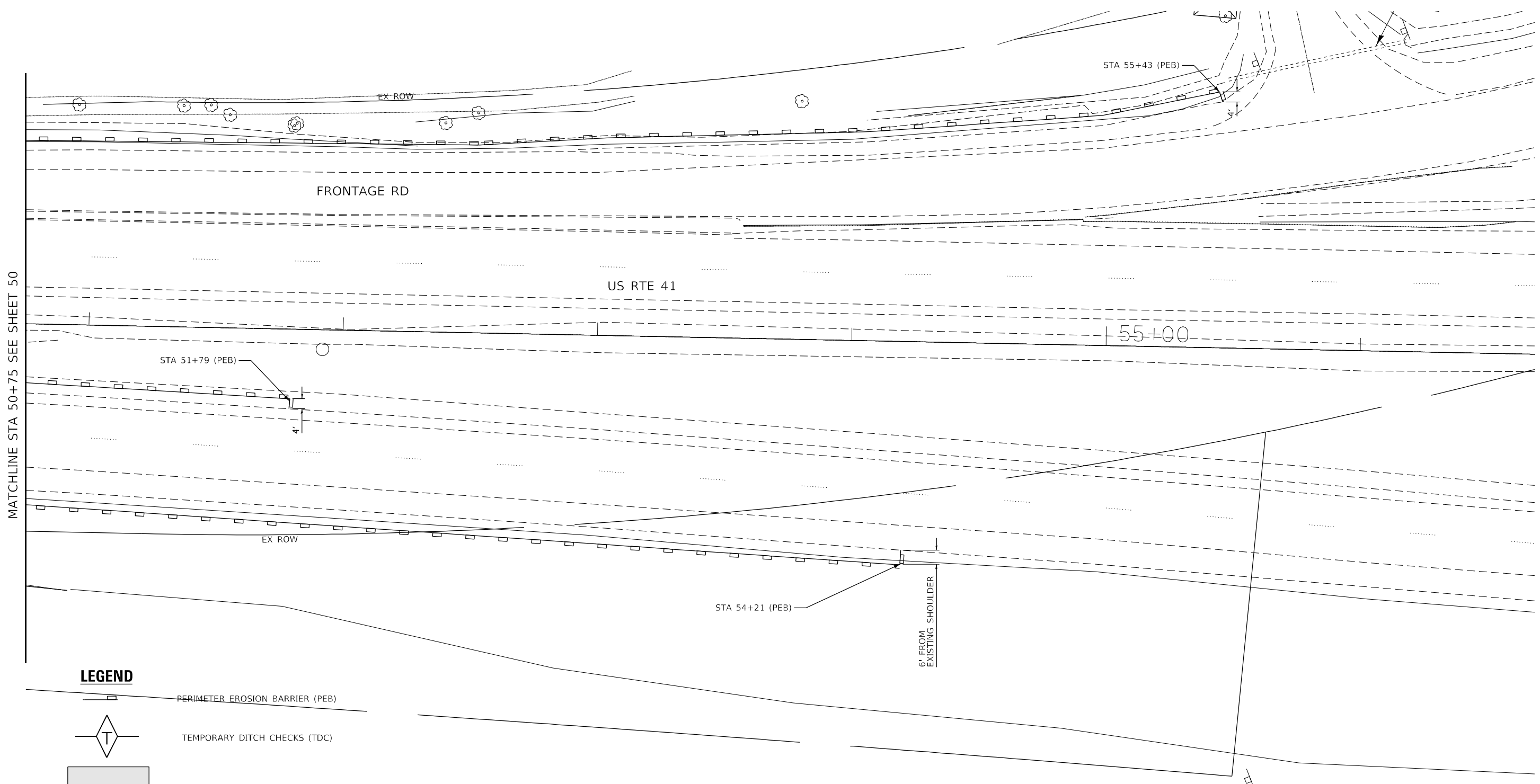
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


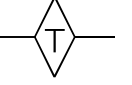


**EROSION AND SEDIMENT CONTROL PLAN - LOCATION 1-1
STRUCTURE NO. 049-0228**

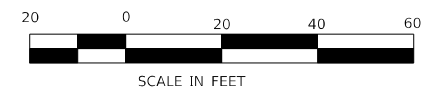
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 50
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	



LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18-62126\CA00\CA00 Sheets\Civil\62126-ent-ESC 049-0228 - 2.dgn







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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

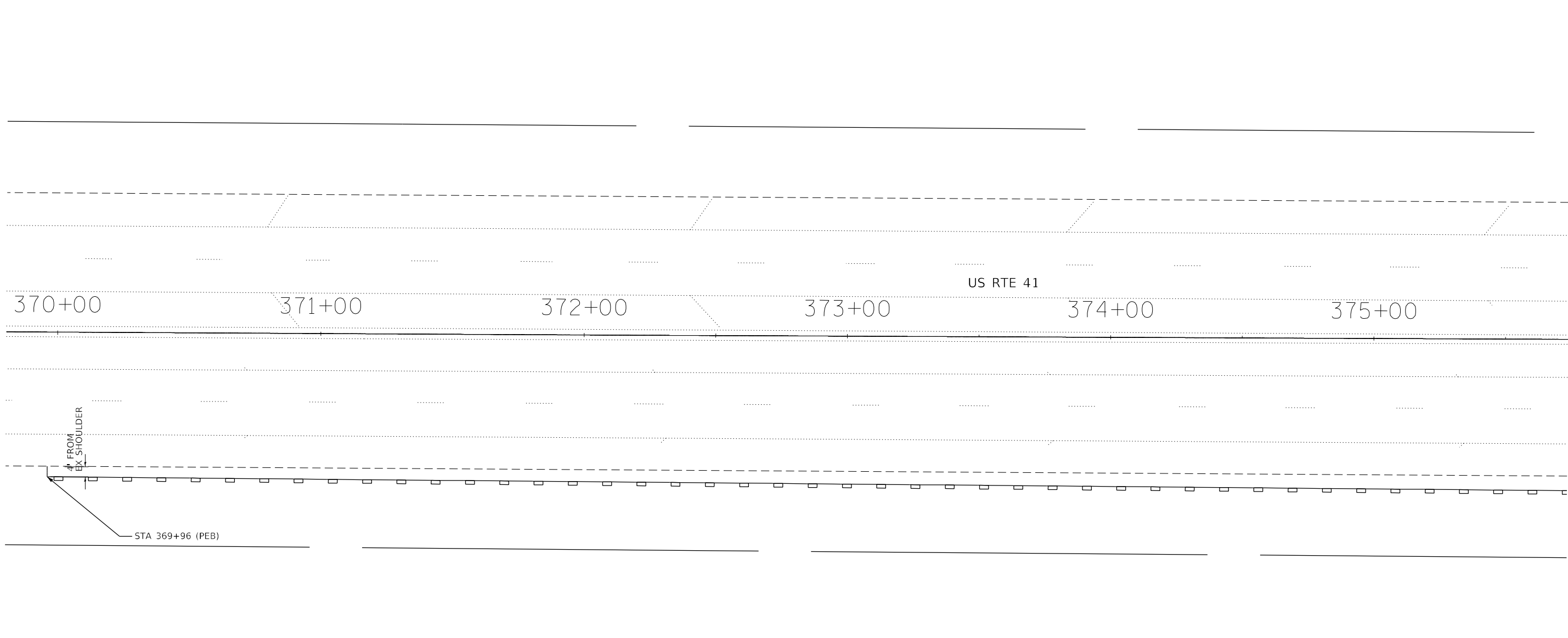
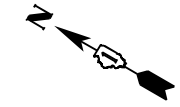
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN			
STRUCTURE NO. 049-0228			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	51
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order 18- 62126\CA00\CA00 Sheets\Civil\62126-ent-ESC 049-2016-1.dgn



USER NAME = abee	DESIGNED - IH	REVISED -
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PLOT SCALE = 40.0000' / in.	CHECKED - DH	REVISED -
PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN - LOCATION 2 - I
STRUCTURE NO. 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	52
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

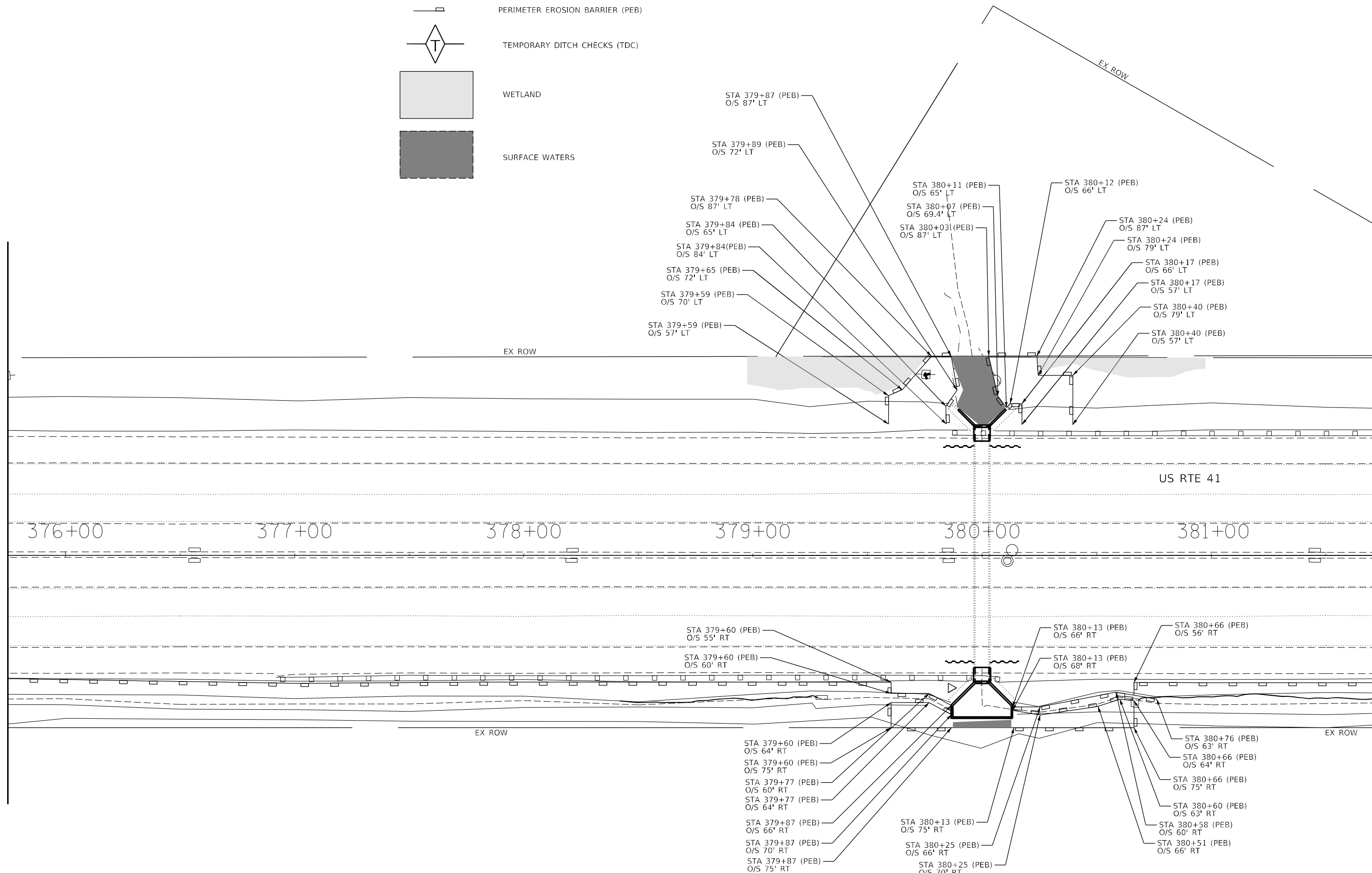
LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS

FILE NAME = Q:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CAD\CADD Sheets\Civil\62126-ent-ESC 049-2016-2.dgn

MATCH LINE STA 375+75
SEE SHEET 52

MATCH LINE STA 381+50
SEE SHEET 54



USER NAME = abee	DESIGNED - IH	REVISED -
DRAWN - IH	REVISED -	
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

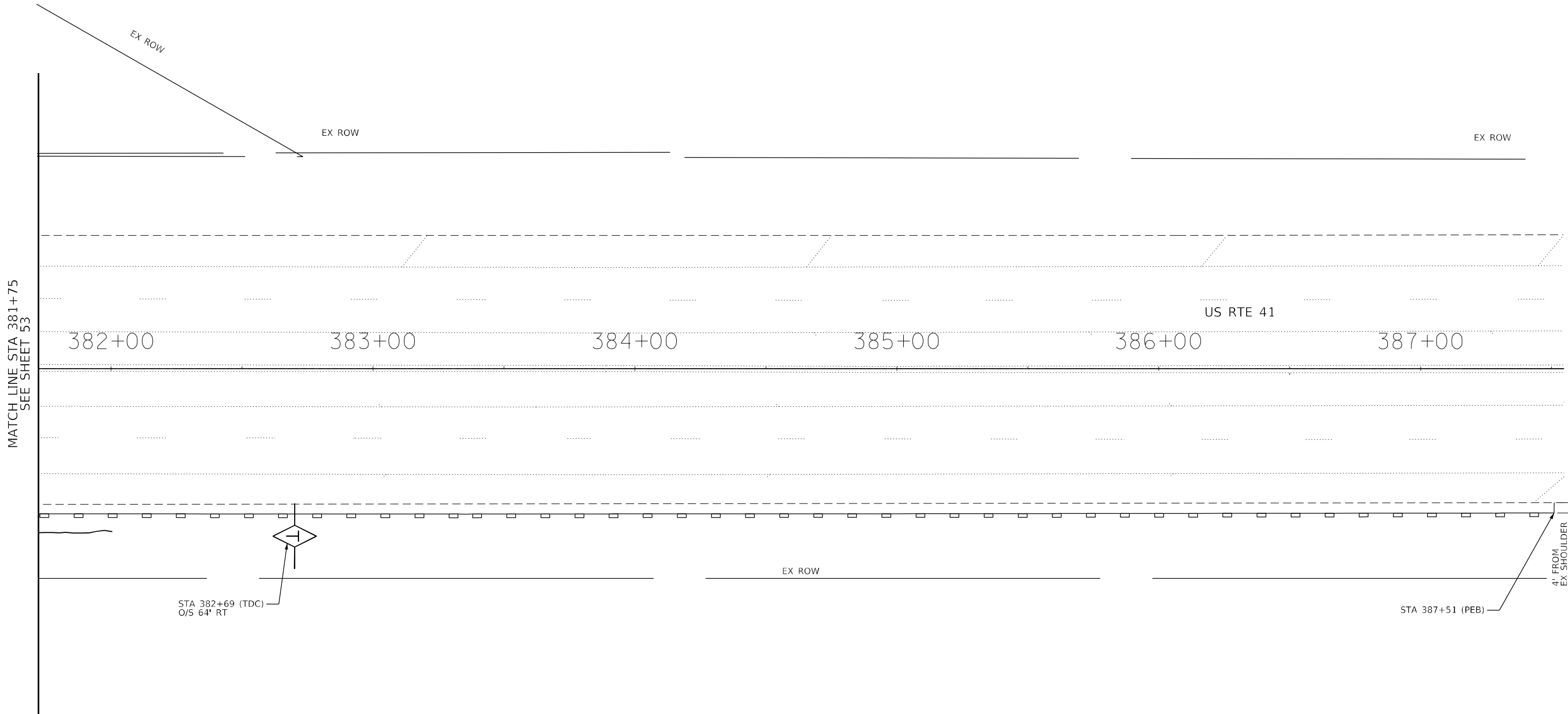
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN - LOCATION 2-II
STRUCTURE NO. 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.


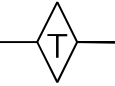


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	53
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18- 62126\CA00\CA00 Sheets\Civil\62126-ent-ESC 049-2016-3.dgn



MATCH LINE STA 381+75
SEE SHEET 53

LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



USER NAME = abee	DESIGNED - IH	REVISED -
	DRAWN - IH	REVISED -
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

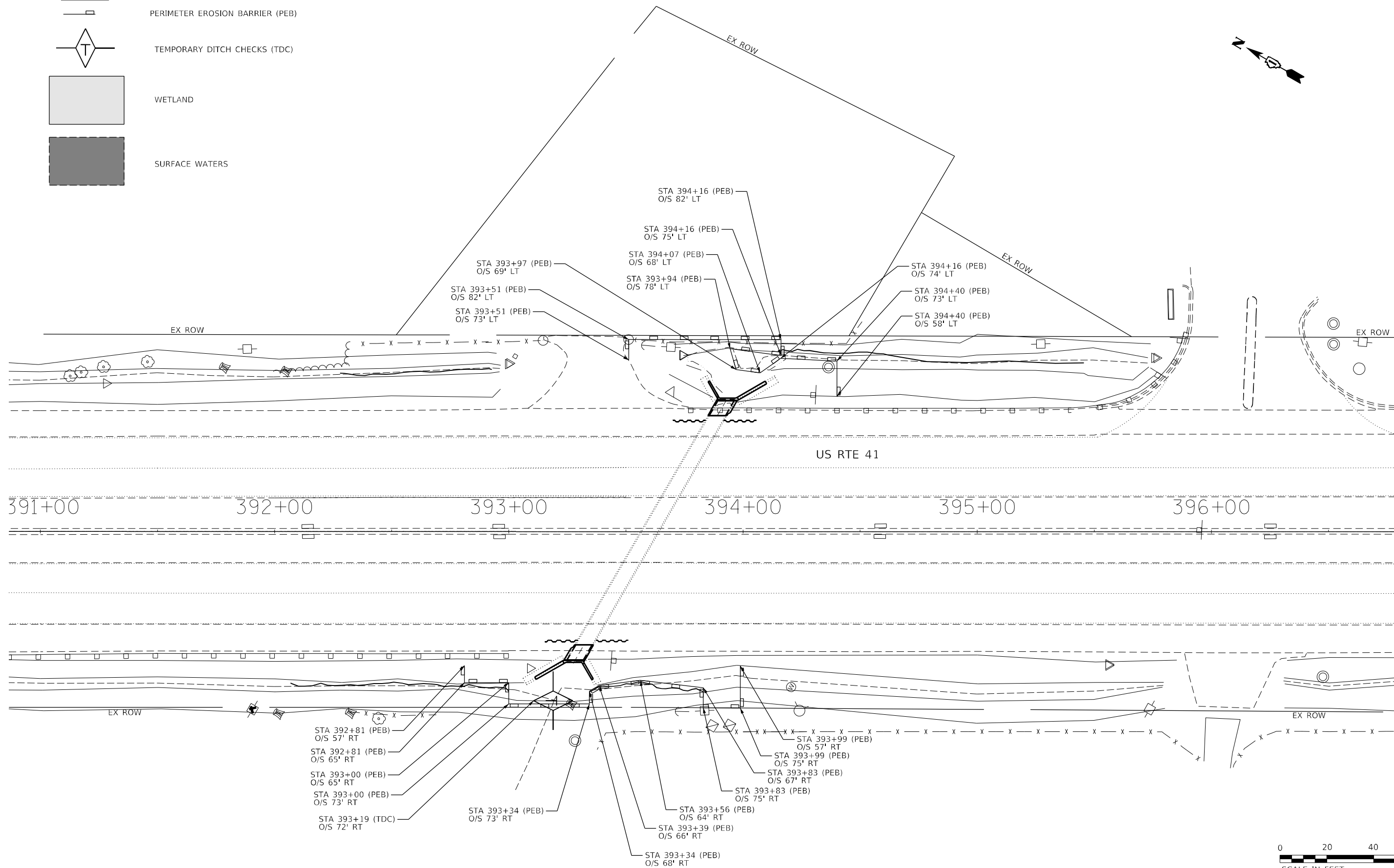
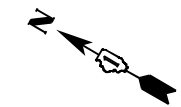
**EROSION AND SEDIMENT CONTROL PLAN
STRUCTURE NO. 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	54
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CA00\CA00 Sheets\Civil\62126-ent-ESC 049-2015.dgn



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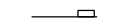
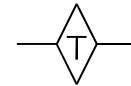
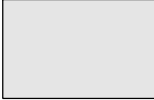

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

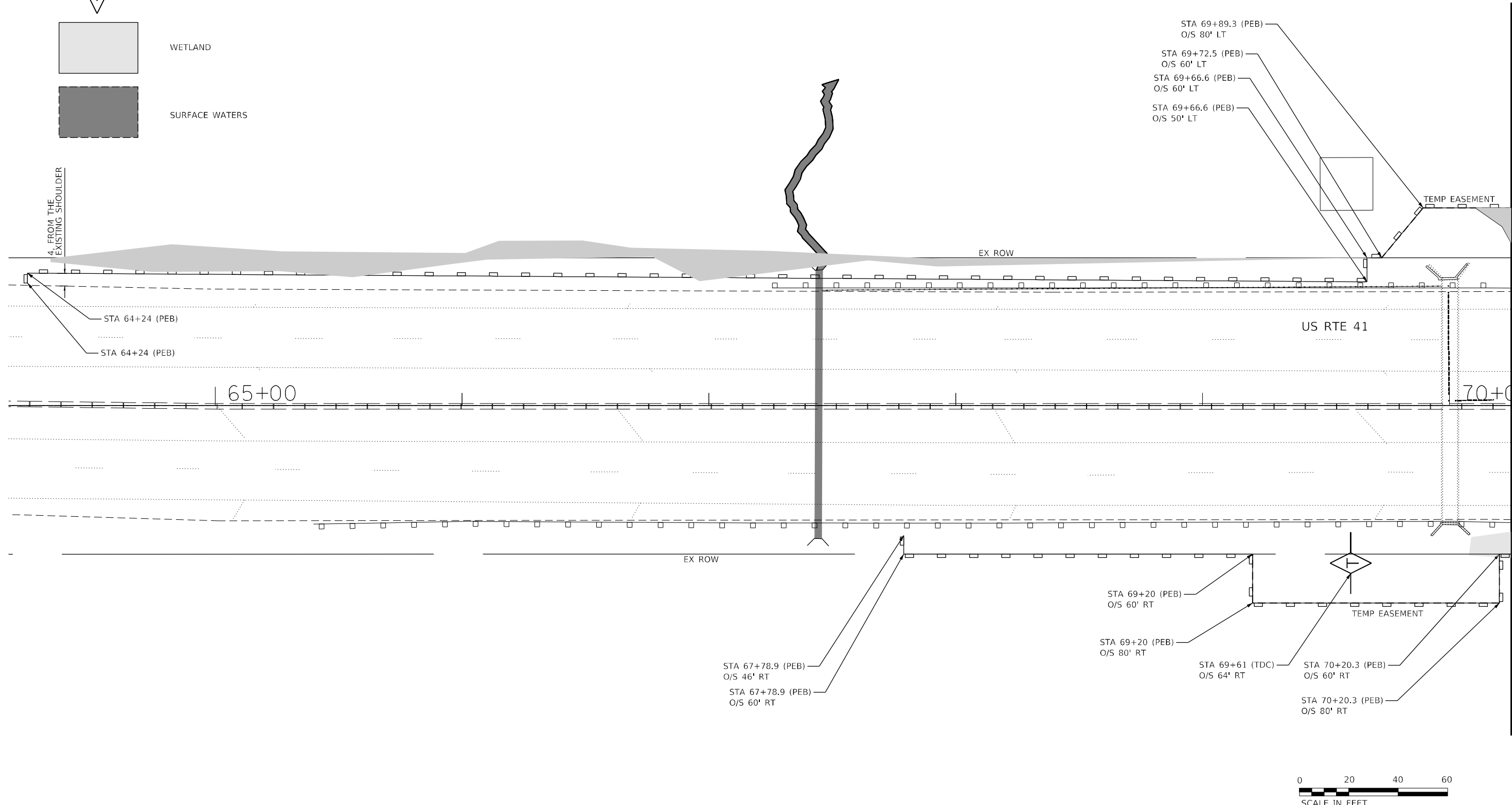
**EROSION AND SEDIMENT CONTROL PLAN - LOCATION 3
STRUCTURE NO. 049-2015**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 55
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

LEGEND

-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS (TDC)
-  WETLAND
-  SURFACE WATERS



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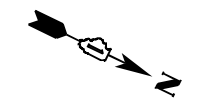
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DRAWN - IH	REVISIONS -	
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN - LOCATION 4 - I
STRUCTURE NO. 049-0575

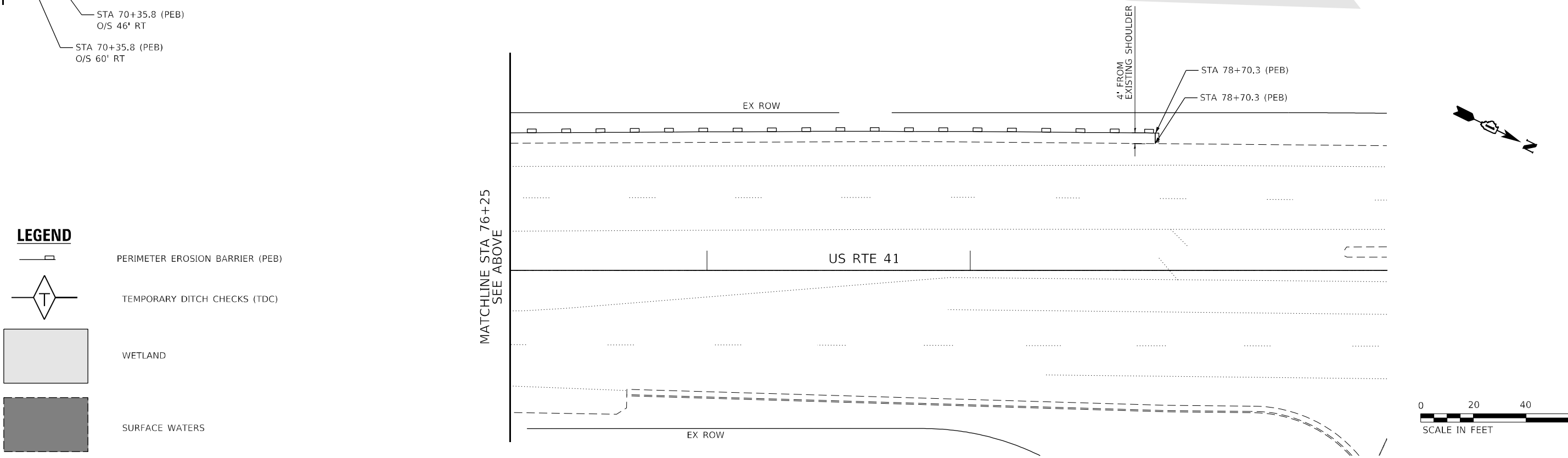
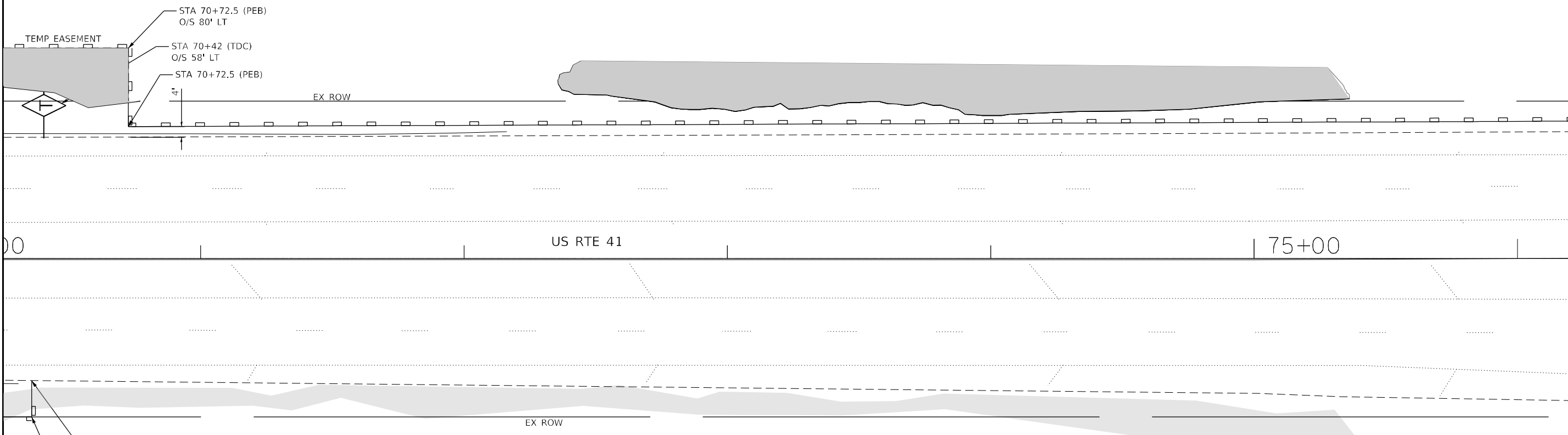
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	56
CONTRACT NO.			62126	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



MATCHLINE STA 70+25
SEE SHEET 56

MATCHLINE STA 76+25
SEE BELOW



LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY DITCH CHECKS (TDC)
- WETLAND
- SURFACE WATERS



MODEL: Default
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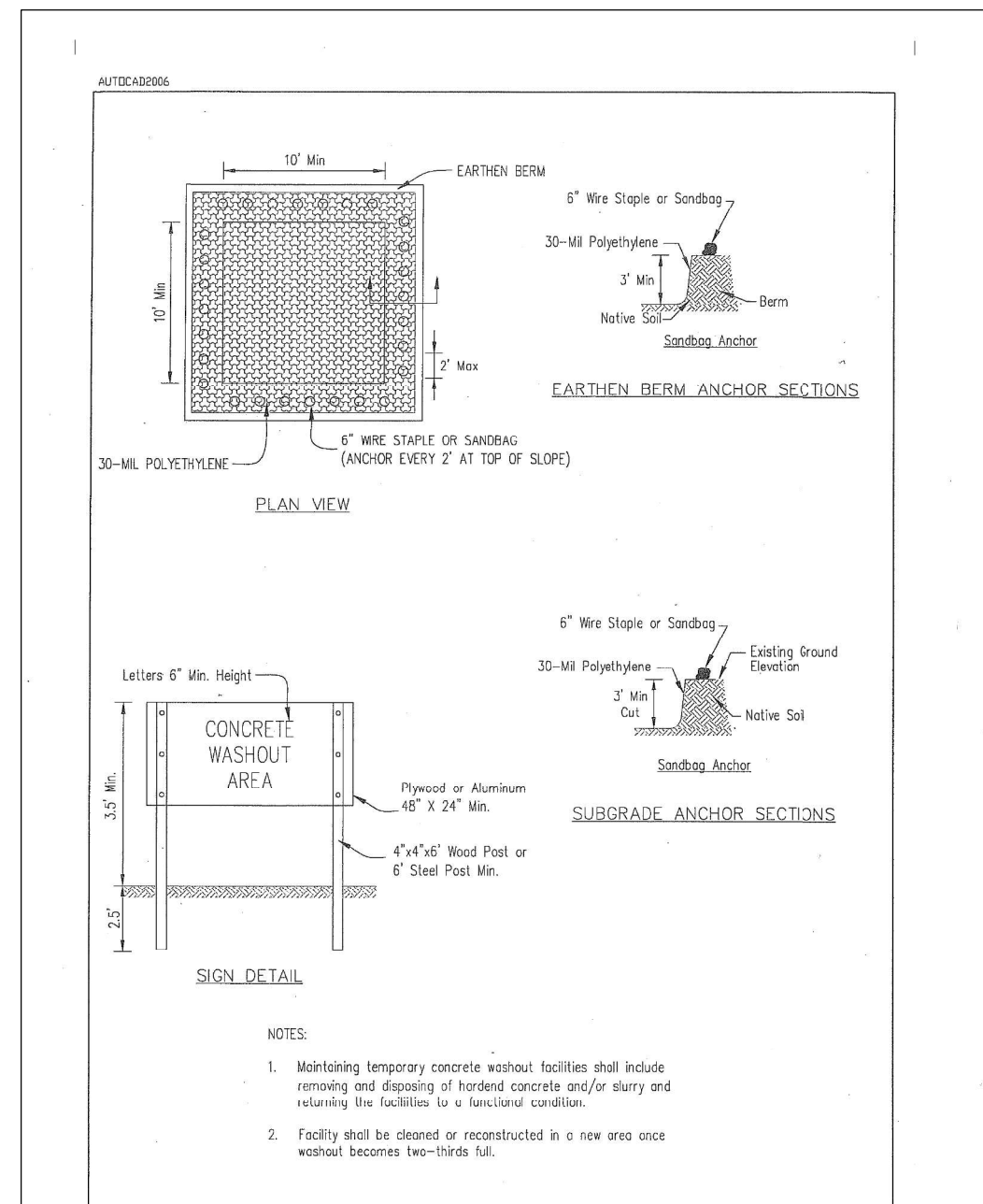
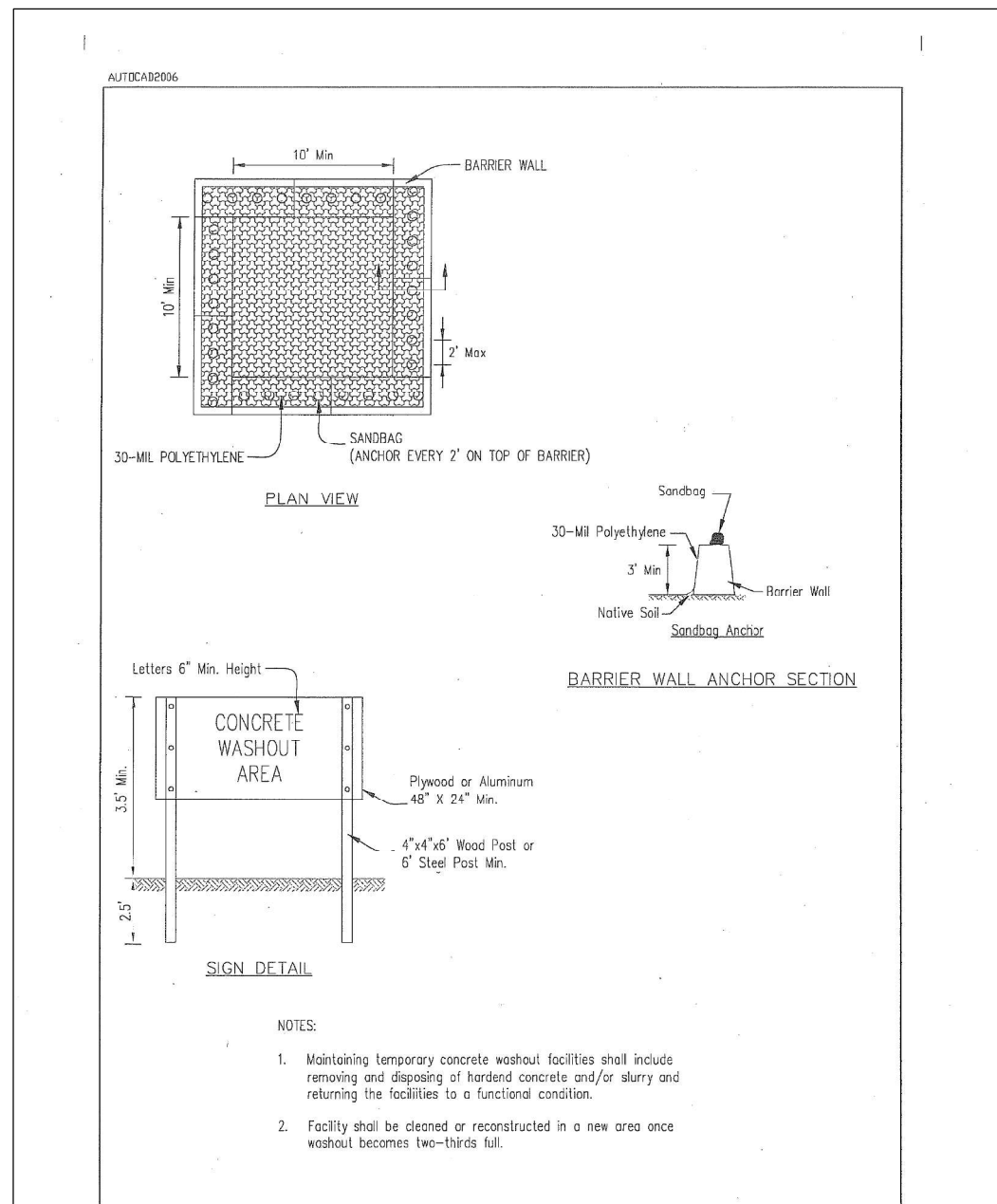
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN - LOCATION 4 - II
STRUCTURE NO. 049-0575**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62126	



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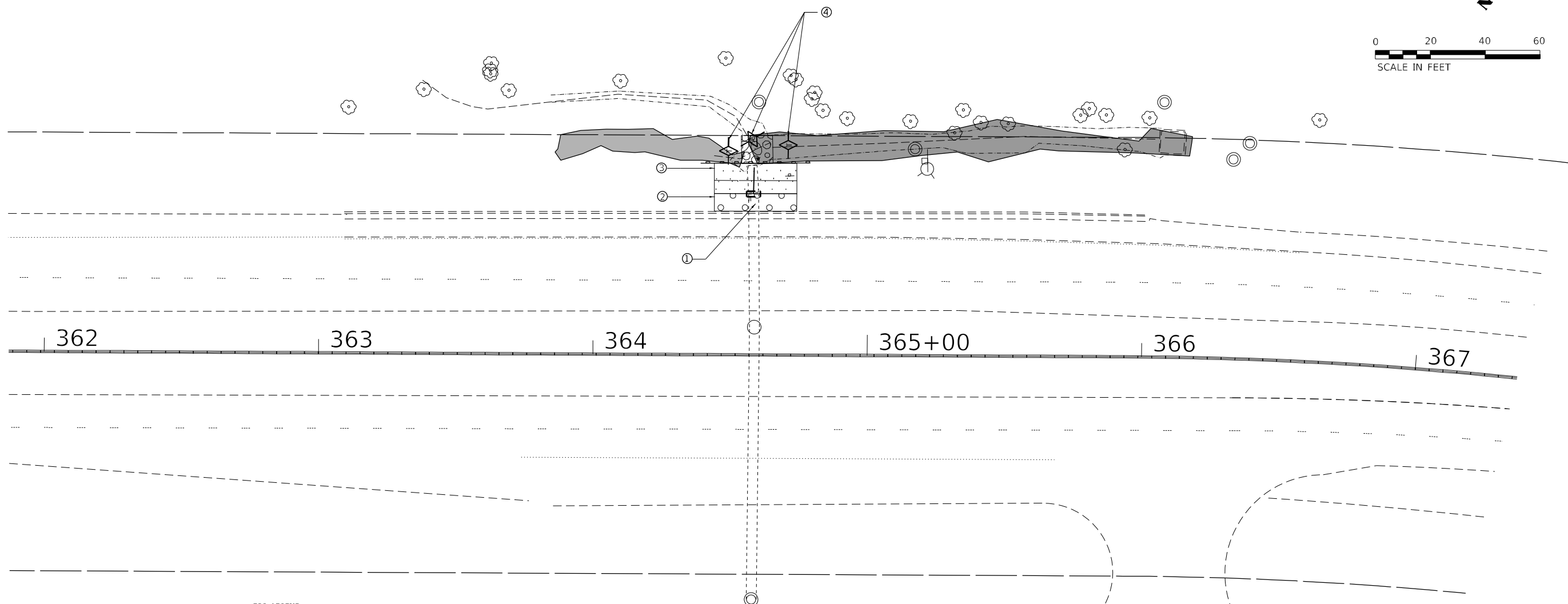
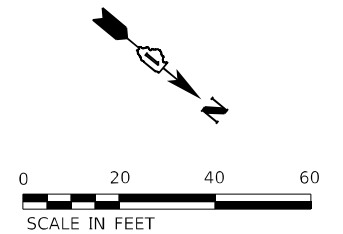
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS
US RTE 41

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	58
CONTRACT NO.				62126
ILLINOIS FED. AID PROJECT				

- ① PERIMETER EROSION BARRIER
STA 364+45 TO 364+75 30 FOOT
- ② SEEDING CLASS 2A 30' X 6' 0.01 A
EROSION CONTROL BLANKET 20 SQ YD
TOPSOIL FURNISH AND PLACE 4" 20 SQ YD
- ③ SEEDING CLASS 4 (MODIFIED) & CLASS 4B (MODIFIED) 30' X 12' 0.01 A
HEAVY DUTY EROSION CONTROL BLANKET 40 SQ YD
TOPSOIL FURNISH AND PLACE 4" 40 SQ YD
- ④ TEMPORARY DITCH CHECKS 30 FOOT



ESC LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY DITCH CHECKS (TDC)
- WETLAND
- SURFACE WATERS

LANDSCAPING LEGEND

- SEEDING CLASS 2A
WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 (MODIFIED) AND 4B (MODIFIED)
WITH HEAVY DUTY EROSION CONTROL BLANKET

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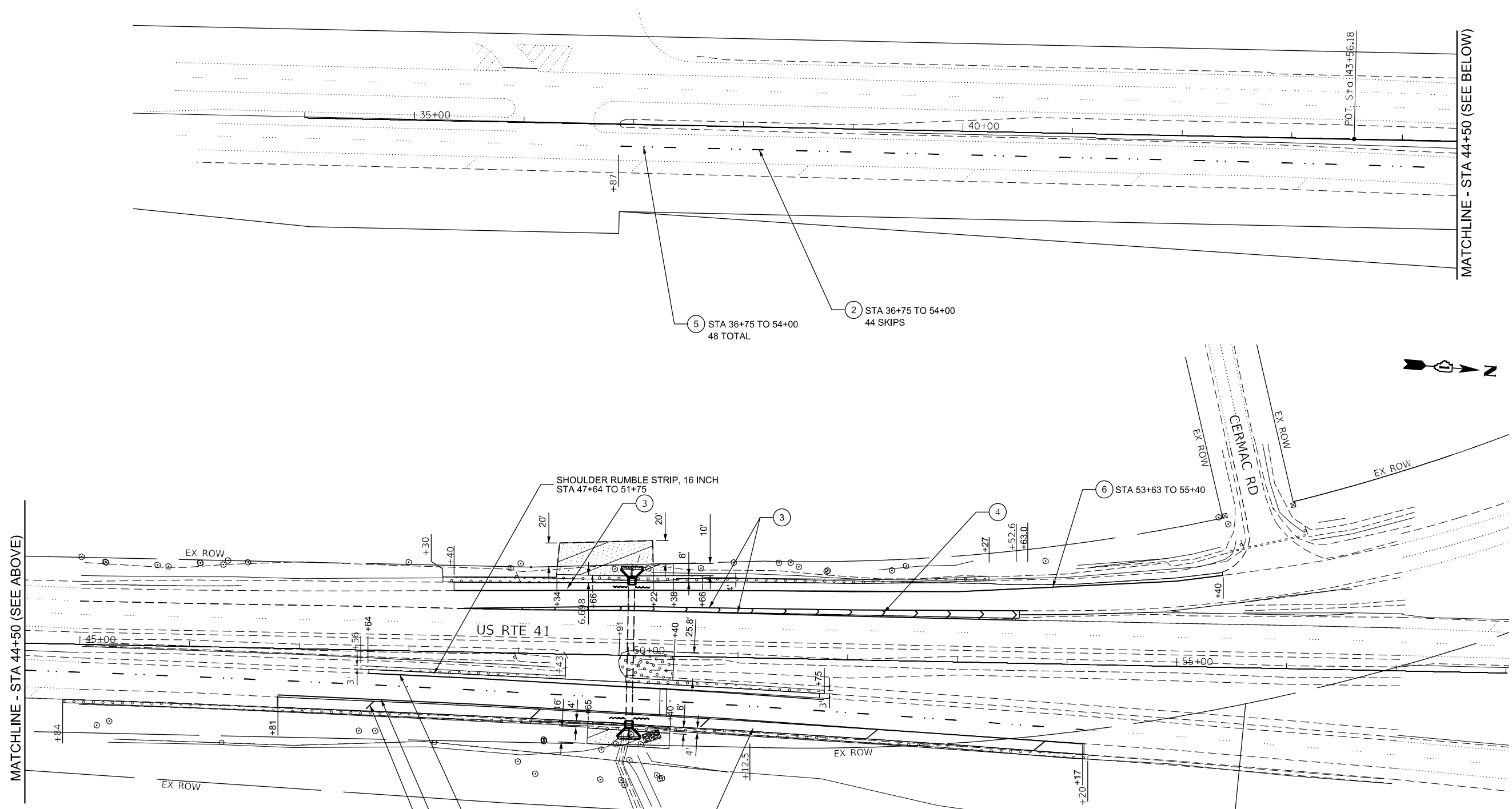
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING AND EROSION CONTROL PLANS
LOCATION 5**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-149-T	LAKE	139	59
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work D-der-18- 62126\CA00\CA00 Sheets\Civil\62126-sht-PMK_Landscp_049-0228.dgn



MATCHLINE - STA 44+50 (SEE ABOVE)

MATCHLINE - STA 44+50 (SEE BELOW)

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (WHITE-10' LINE, 30' SPACE)
- ③ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 8" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE CHEVRONS @ 30' SPACING)
- ⑤ REPLACEMENT REFLECTOR
- ⑥ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE SHOULDER DIAGONALS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (YELLOW SHOULDER DIAGONALS)

LANDSCAPING LEGEND

- SEEDING CLASS 4 (MODIFIED) AND CLASS 4B (MODIFIED) WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

- ① STA 47+64 TO 51+75
SHOULDER RUMBLE STRIP, 16 INCH
STA 46+81 TO 54+17
- ⑥ STA 46+81 TO 54+17
- ⑦ TYPICAL AT LOCATIONS SHOWN



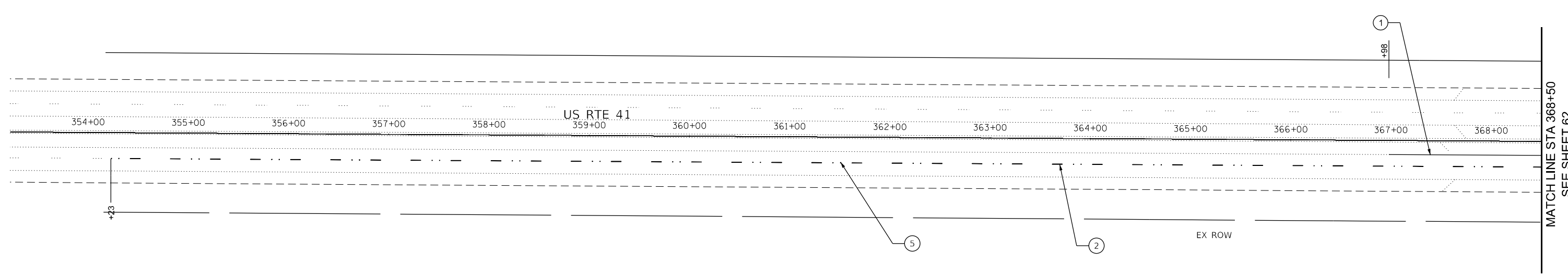
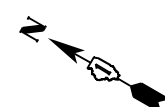
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	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

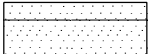

**PAVEMENT MARKING AND LANDSCAPING PLANS
STRUCTURE NO. 049-0228**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 60
			CONTRACT NO. 62126	
ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

-  SEEDING CLASS 4 (MODIFIED) AND CLASS 4B (MODIFIED) WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (WHITE-10' LINE, 30' SPACE)
- ③ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 8" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE CHEVRONS @ 30' SPACING)
- ⑤ REPLACEMENT REFLECTOR
- ⑥ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE SHOULDER DIAGONALS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (YELLOW SHOULDER DIAGONALS)

FILE NAME = G:\Engineering\LiveProjects\13043.IDOT DUR AES\Work Order\18- 62126\CAOD\CAOD Sheets\Civil\62126-shr-PMK_Landscap_049-2015-1.dgn



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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND LANDSCAPING PLANS - I
STRUCTURE NOS. 049-2015 AND 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 61
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

MATCH LINE STA 368+50
SEE SHEET 62

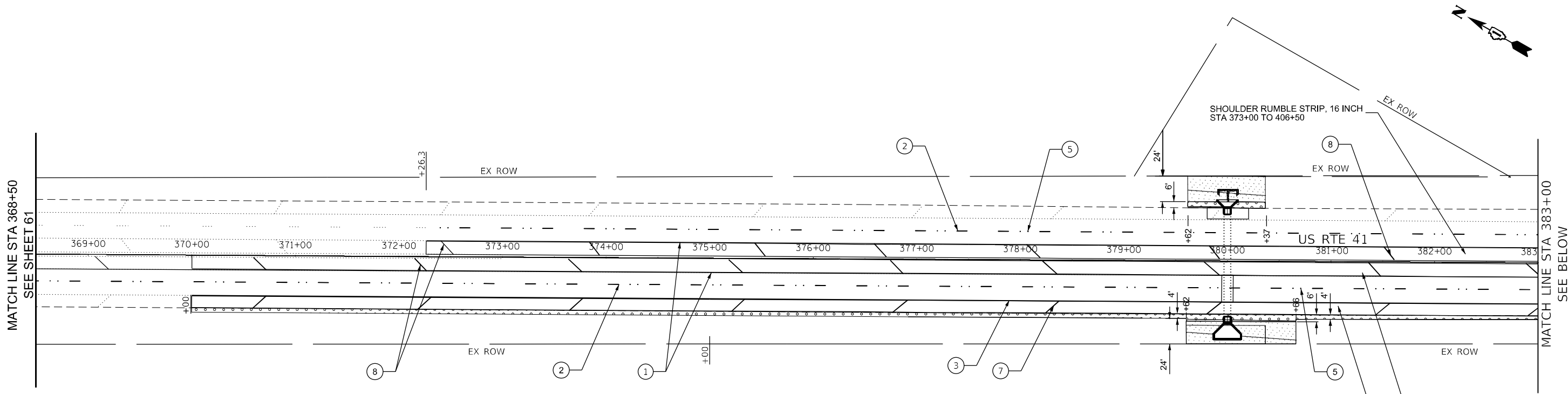
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MATCH LINE STA 368+50
SEE SHEET 61

MATCH LINE STA 383+00
SEE BELOW

MATCH LINE STA 383+00
SEE ABOVE

MATCH LINE STA 397+50
SEE SHEET 63

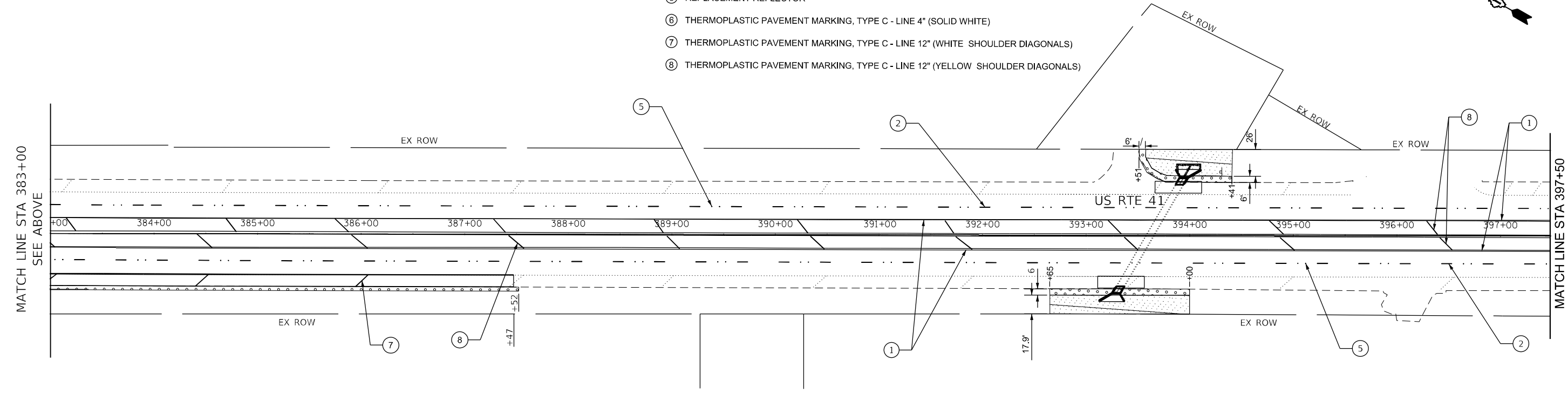


LANDSCAPING LEGEND

- SEEDING CLASS 4 (MODIFIED) AND CLASS 4B (MODIFIED) WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (WHITE-10' LINE, 30' SPACE)
- ③ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 8" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE CHEVRONS @ 30' SPACING)
- ⑤ REPLACEMENT REFLECTOR
- ⑥ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE SHOULDER DIAGONALS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (YELLOW SHOULDER DIAGONALS)



USER NAME = abee	DESIGNED - JH	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - JH	REVISED -
PLOT DATE = 10/8/2020	CHECKED - DH	REVISED -
	DATE - 08/14/2020	REVISED -

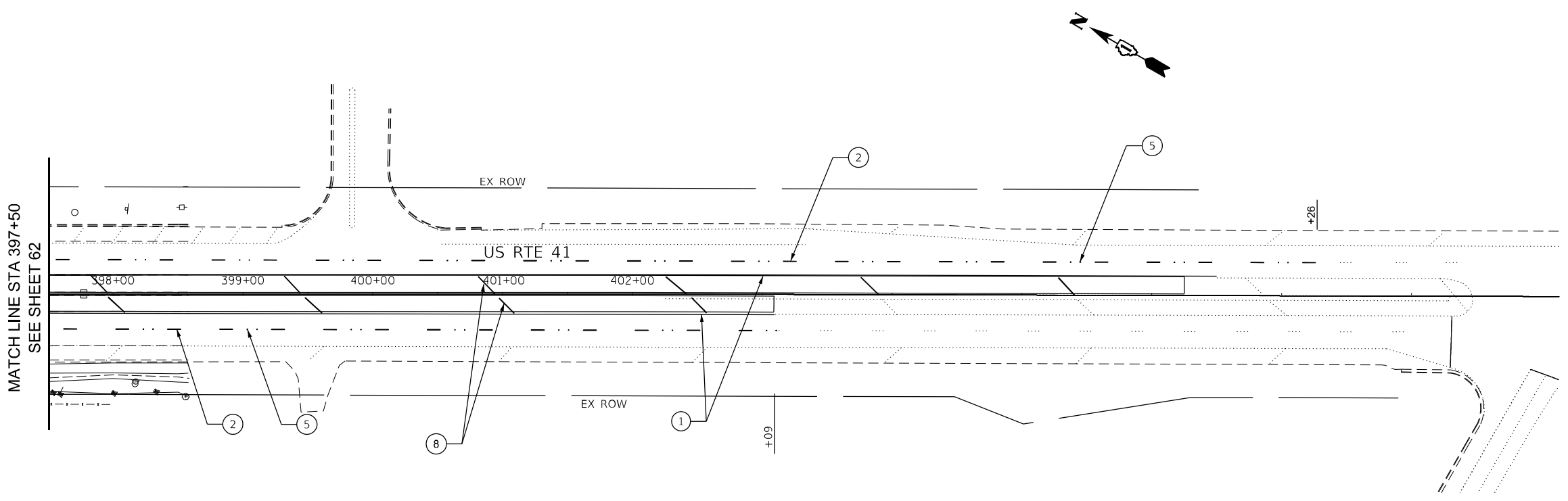
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLANS - I
STRUCTURE NOS. 049-2015 AND 049-2016

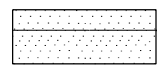
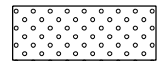
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F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J26	

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LANDSCAPING LEGEND

-  SEEDING CLASS 4 (MODIFIED) AND CLASS 4B (MODIFIED) WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (WHITE-10' LINE, 30' SPACE)
- ③ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 8" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE CHEVRONS @ 30' SPACING)
- ⑤ REPLACEMENT REFLECTOR
- ⑥ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE SHOULDER DIAGONALS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (YELLOW SHOULDER DIAGONALS)



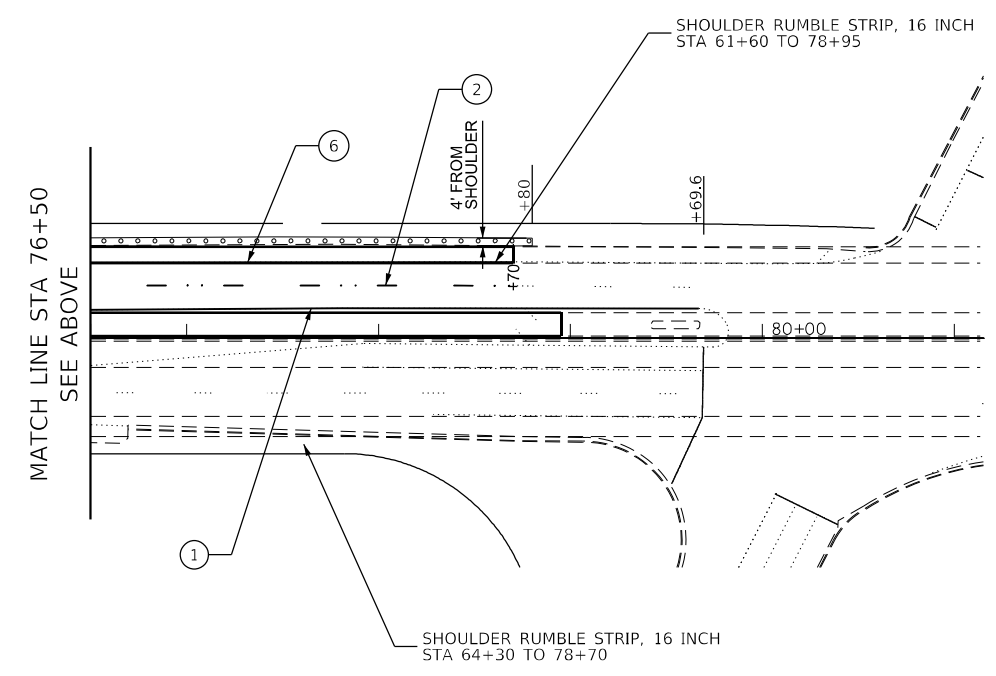
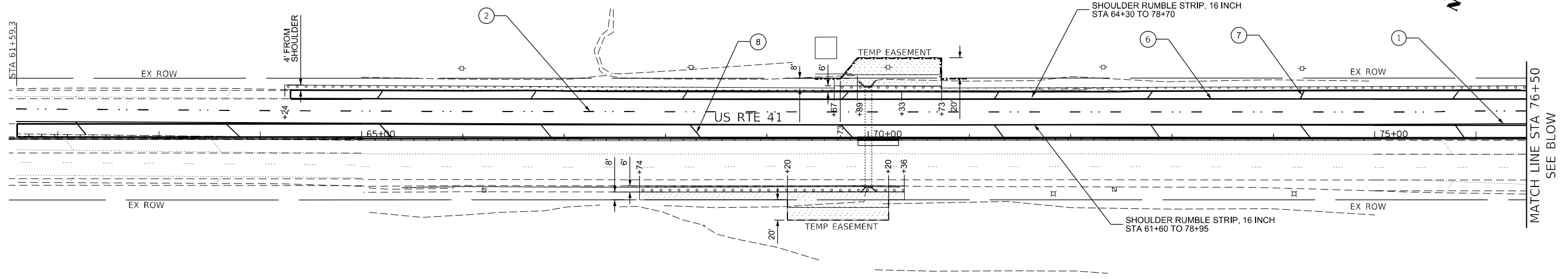
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

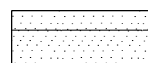
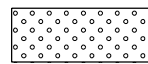
**PAVEMENT MARKING AND LANDSCAPING PLANS - II
STRUCTURE NOS. 049-2015 AND 049-2016**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	2019-049-T	LAKE	139	63
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62126	



LANDSCAPING LEGEND

-  SEEDING CLASS 4 (MODIFIED) AND CLASS 4B (MODIFIED) WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (WHITE-10' LINE, 30' SPACE)
- ③ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 8" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE CHEVRONS @ 30' SPACING)
- ⑤ REPLACEMENT REFLECTOR
- ⑥ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 4" (SOLID WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (WHITE SHOULDER DIAGONALS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, TYPE C - LINE 12" (YELLOW SHOULDER DIAGONALS)

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DRAWN -JH	REVISOR -	
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PLOT DATE = 10/8/2020	DATE - 08/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND LANDSCAPING PLANS
STRUCTURE NO. 049-0575**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 349	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 64
CONTRACT NO. 62126			ILLINOIS FED. AID PROJECT	

Benchmark: Chisled square in concrete base of weigh station sign in the center median of US-41 (Located approximately 100' South of SN 049-0228). Elevation 688.47.

Existing Structure: The structure at US 41 located 0.5 miles north of IL Route 173 is a single-cell reinforced concrete box culvert. The culvert is 138'-3" in length (out-to-out headwalls). The cell width and height are both approximately 6 ft. The structure spans east to west and carries two northbound lanes, two southbound lanes, and one southbound ramp lane for a total of five traffic lanes. A metal guardrail is present on both sides of the culvert.

Salvage : No Salvage

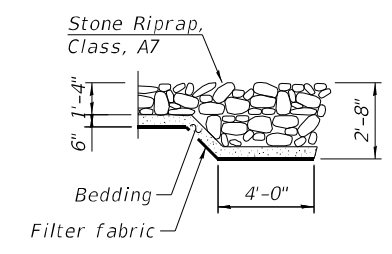
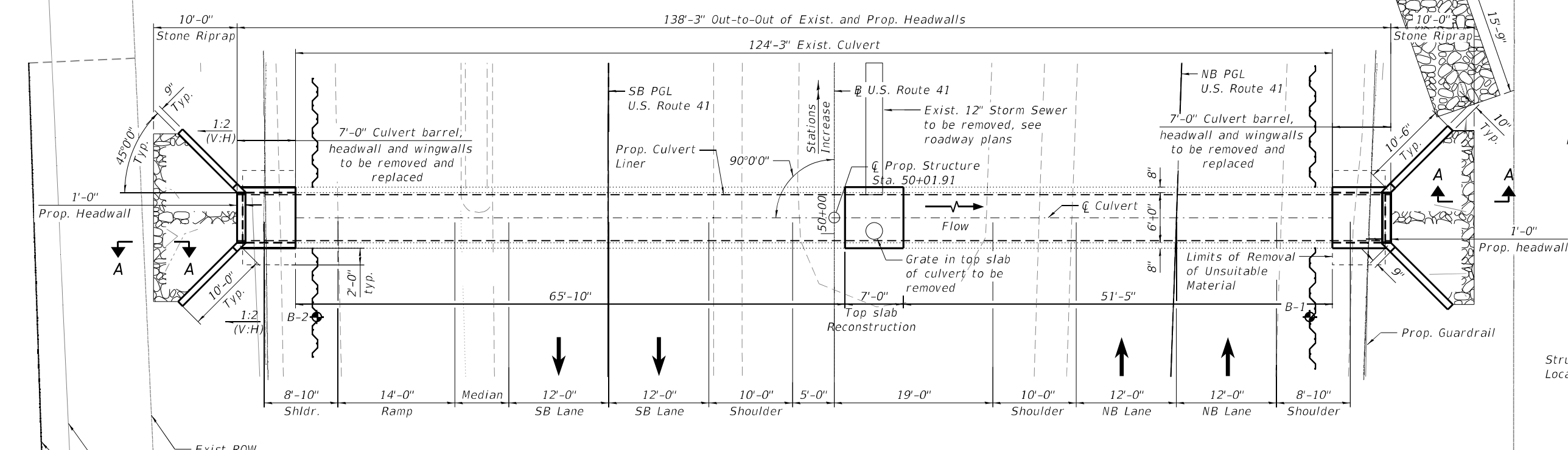
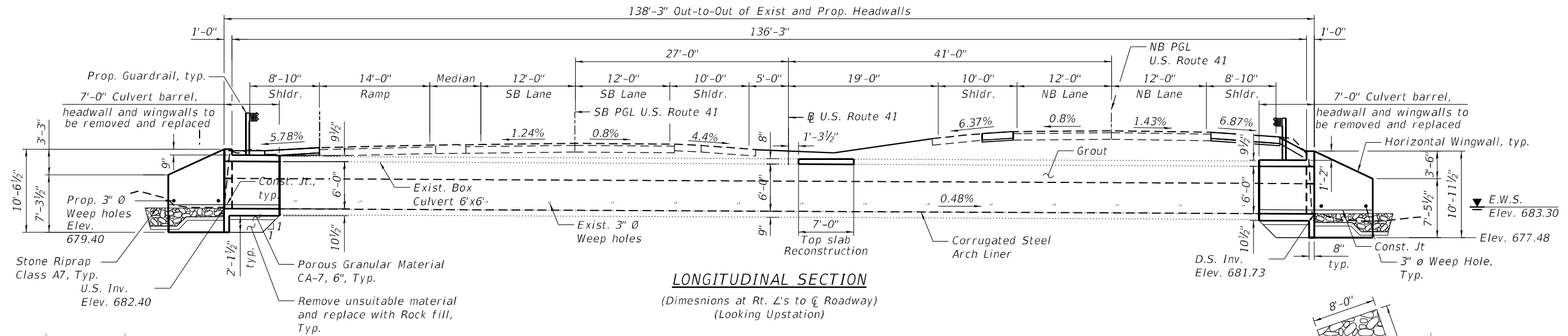
Precast Alternative is not allowed

LOADING HS-20

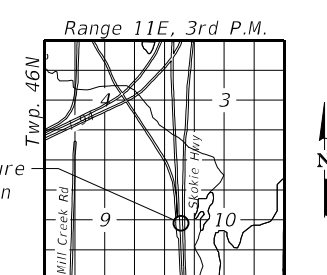
Allow 50 #/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Design Specifications, 8th Edition



SECTION A-A



LOCATION SKETCH

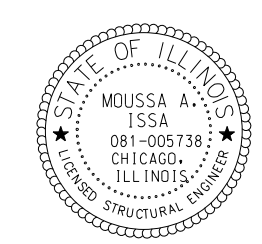
LEGEND

- Temporary Sheet Piling
- Soil Boring
- Limits of Removal of Unsuitable Material
- Stone Riprap, Class A7

Boring	Station	Offset
B-1	49+90.00	57ft Rt.
B-2	49+90.00	62ft Lt.

NOTE

For General Notes, Scope of Work, Index of Sheets and Bill of Material, see Sheet S1-02.



Signed Moussa A. Issa
 Dr. Moussa A. Issa, S.E.
 Il. Lic. No. 081-005738
 Expires 11-30-2022

Date 07/29/2021
 For Sheets S1-01 Thru S1-12
 (Total of 12 Sheets)

GENERAL PLAN
U.S. 41 (SKOKIE HIGHWAY) OVER
UNNAMED CREEK
F.A.P. 346 SECTION 2019-049-T
LAKE COUNTY
STA. 50+01.91
STRUCTURE NO. 049-0228



USER NAME	DESIGNED	FL, LAB	REVISED	-
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	DRAWN	FL	REVISED	-
	DATE	9/22/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	65

CONTRACT NO. 62J26

GENERAL NOTES:

- 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.
- It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
- The presented elevations and limits of the existing structure have been take from historical design drawings and Survey data. Dimensions may not present "as-built" condition. All existing structure limits shall be field verified by the contractor and coordinated with the engineer prior to ordering materials, fabrication and construction of the proposed culvert extension.

INDEX OF SHEETS

- S1-01 General Plan
- S1-02 General Notes, Index of Sheets & Total Bill of Material
- S1-03 Stage Removal and Construction (Sheet 1 of 2)
- S1-04 Stage Removal and Construction (Sheet 2 of 2)
- S1-05 Temporary Sheet Piling
- S1-06 Existing Structure Partial Removal
- S1-07 Top Slab Reconstruction
- S1-08 Culvert East End Reconstruction Plan and Sections
- S1-09 Culvert West End Reconstruction Plan and Sections
- S1-10 Culvert Sections and Details
- S1-11 Culvert Liner Details
- S1-12 Boring Logs

SCOPE OF WORK:

- Remove and reconstruct the 7'-0" of the east and west portions of culvert barrel.
- Remove and reconstruct the west and east culvert headwalls and wingwalls.
- Install culvert pipe liner and fill area between liner and top slab of culvert with grout.
- Remove and re-erect the new steel plate beam guardrails and guardrail posts on the east and west sides of the roadway.
- Pave Frontage Road gore and remove existing Frontage Road curb.
- Remove and reconstruct the portions of the shoulder on the east and west sides of the roadway.
- Remove 7'-0" portion of top slab and the existing grate in the top slab and reconstruct the top slab.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal And Disposal Of Unsuitable Material	Cu Yd	11.6
Stone Riprap, Class A7	Sq Yd	48
Filter Fabric	Sq Yd	34
Concrete Removal	Cu Yd	25.2
Reinforcement Bars	Pound	5550
Name Plates	Each	1
Temporary Sheet Piling	Sq Ft	1105
Concrete Box Culverts	Cu Yd	25.5
Membrane Waterproofing System For Buried Structures	Sq Yd	22
Corrugated Steel Arch Liner	Foot	139
Rock Fill	Cu Yd	11.6

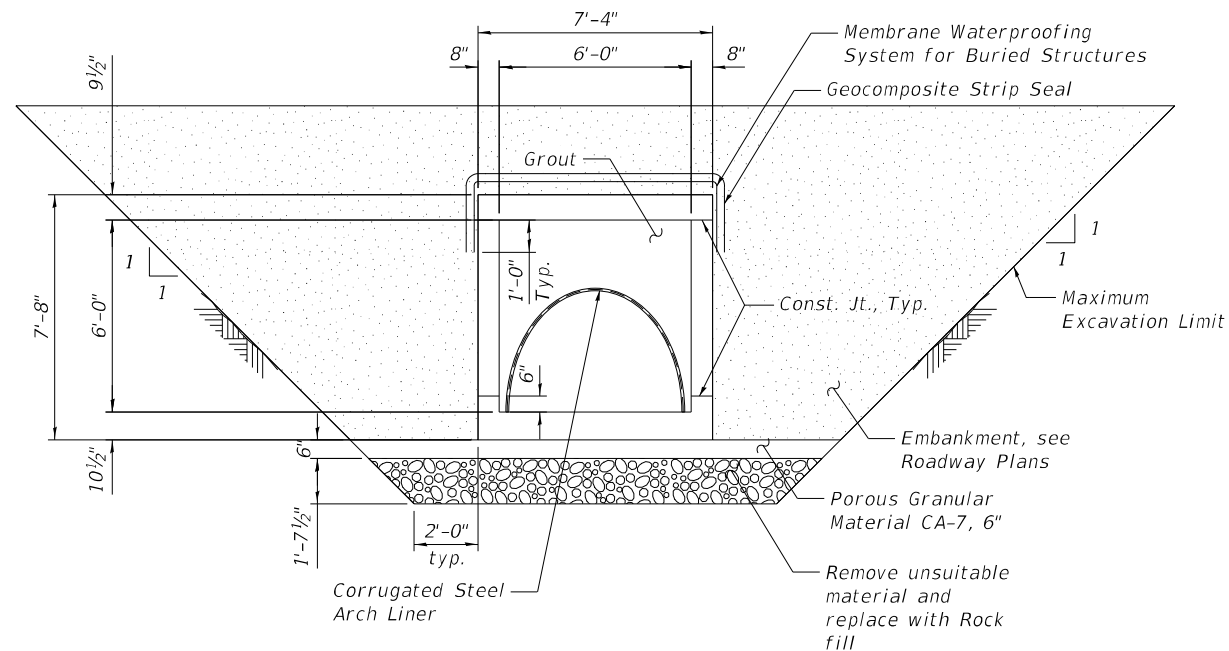
WATERWAY INFORMATION

Drainage Area = 0.1134 square miles		Existing Overtopping Elev. = 690.58 at Sta. 50+01 Proposed Overtopping Elev. = 690.58 at Sta. 50+01							
Flood	Freq. Yr.	Discharge C.F.S	Opening Sq. Ft.		Nat. H.W.E.	Head - ft		Headwater Elevation - ft	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	33.1	10	9	684.0**	0*	0.2	684.0*	684.2
Design	50	67.6	13	12	684.6**	0.4*	0.7	685.0*	685.3
Base	100	89.8	14	13	684.8**	0.7*	1.2	685.5*	686.0
Overtop Existing								690.58	
Overtop Proposed									690.58
Max. Calc.									

10-year velocity through the existing culvert = 3.67 fps.
 10-year velocity through the proposed culvert = 3.83 fps.
 2 Year Peak Flow (Q) = 23.9 cfs
 Estimated Water Surface Elevation = 683.30 ft

STATION 50+01.91
 RE-BUILT 202* BY
 STATE OF ILLINOIS
 F.A.P. 346 SECTION 2019-049-T
 LOADING HL-93
 STRUCTURE NO. 049-0228

NAME PLATE
 See Std. 515001



TYPICAL SECTION THRU BARREL

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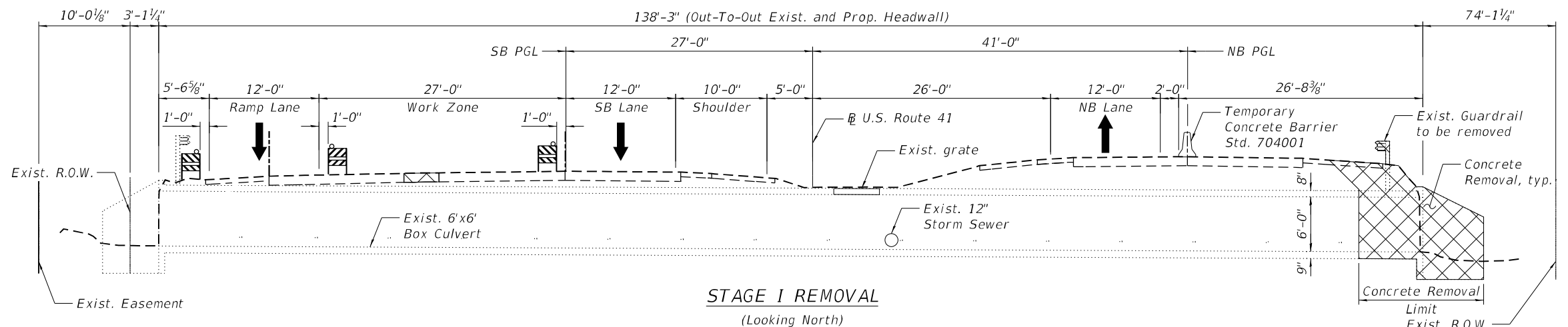
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

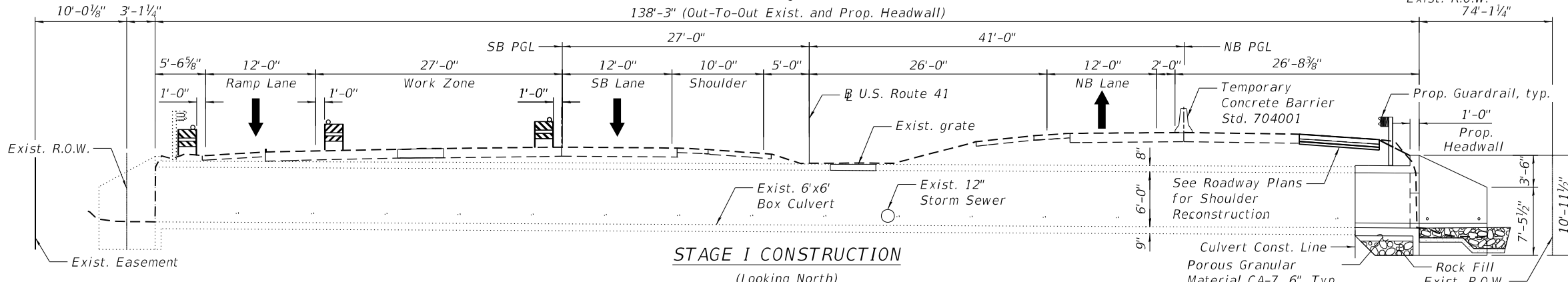
**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
 S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S1-02 OF S1-12 SHEETS

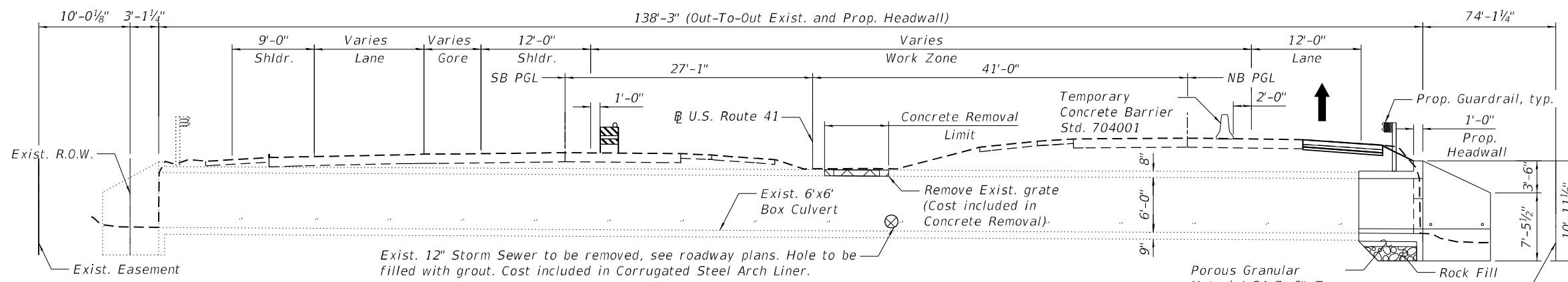
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	66
CONTRACT NO. 62J26				
ILLINOIS		FED. AID PROJECT		



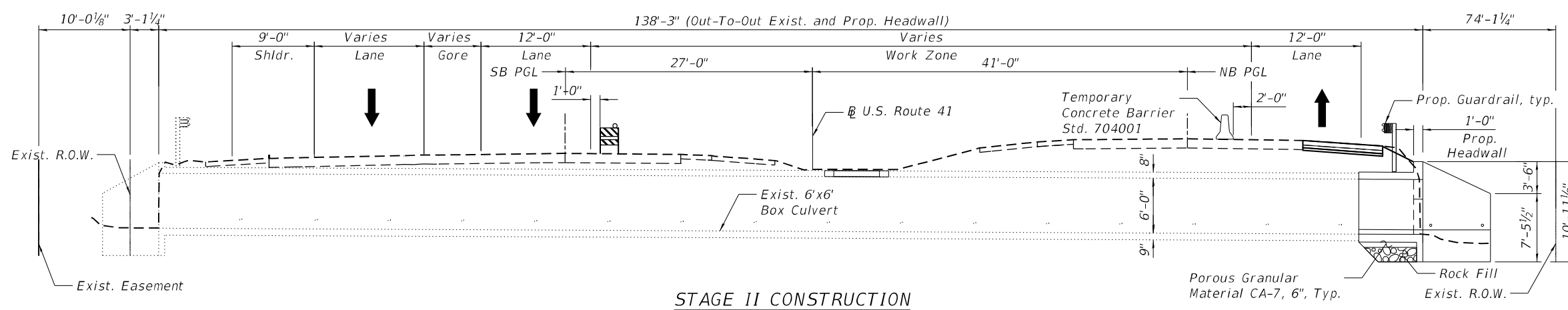
STAGE I REMOVAL
(Looking North)



STAGE I CONSTRUCTION
(Looking North)



STAGE II REMOVAL
(Looking North)



STAGE II CONSTRUCTION
(Looking North)

STAGE I REMOVAL

1. Remove existing raised median.
2. Install temporary concrete barrier as shown to locate construction work areas on the east and west sides of the existing structure.
3. Install Temporary Sheet Piling as shown in Sheet S1-05.
4. Clean the inside of existing box culvert.
5. Remove portions of the existing shoulders on the east side of the roadway.
6. Remove the steel plate beam guardrail and guardrail posts at the east side of the road.
7. Remove the 7'-0" portion of the east culvert barrel, and remove the east headwall and wingwalls.

STAGE I CONSTRUCTION

1. Patch area where median has been removed.
2. Reconstruct the 7'-0" portion of the east culvert barrel and reconstruct the east headwall and wingwalls.
3. Install the guardrail at the east side of the road.
4. Reconstruct the shoulders on the east side of the roadway.

STAGE II REMOVAL

1. Remove existing grate and 7'-0" portion of the top slab in the median
2. Remove Exist. 12" Storm Sewer, Hole on North culvert wall be filled with grout.

STAGE II CONSTRUCTION

1. Construct 7'-0" portion of the top slab

LEGEND:



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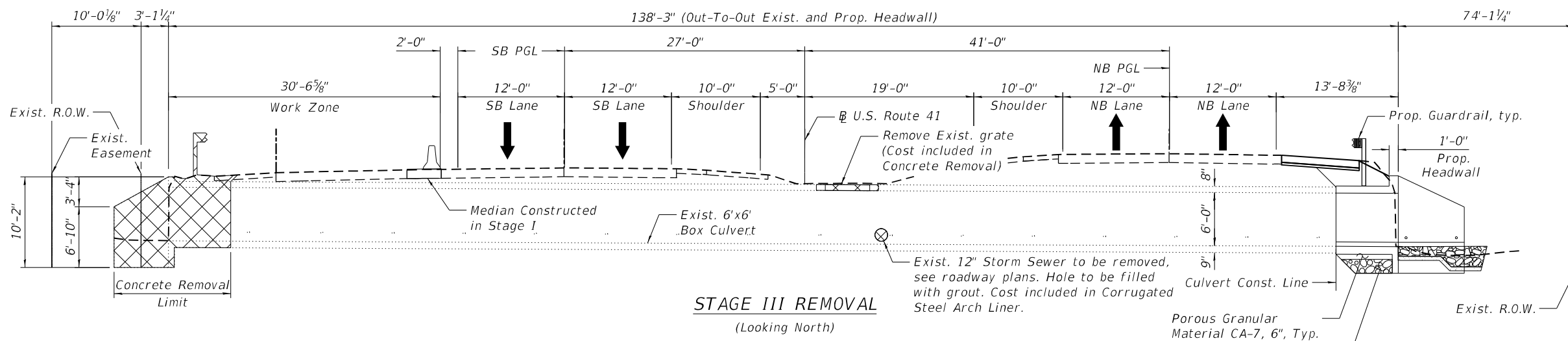
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE REMOVAL AND CONSTRUCTION (SHEET 1 OF 2)
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	67
CONTRACT NO. 62J26				

SHEET S1-03 OF S1-12 SHEETS

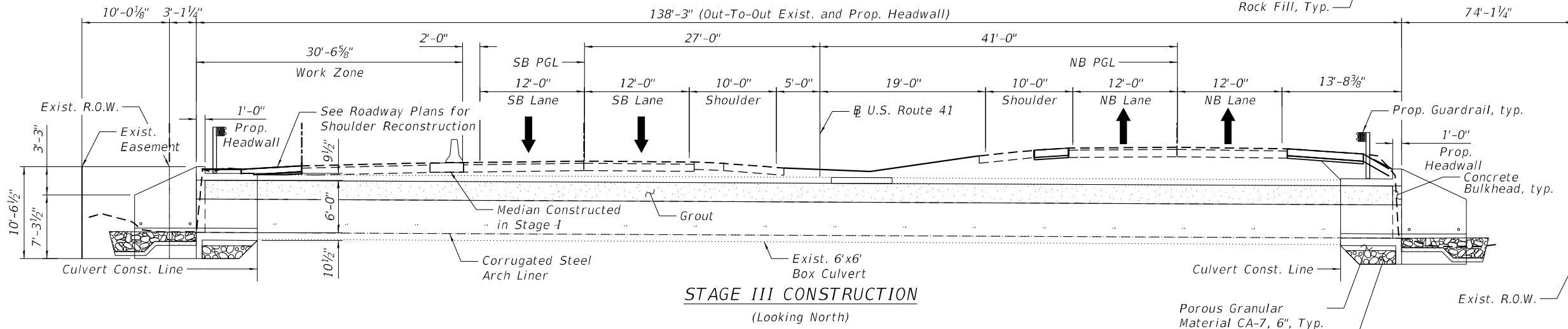
ILLINOIS FED. AID PROJECT



STAGE III REMOVAL
(Looking North)

STAGE III REMOVAL

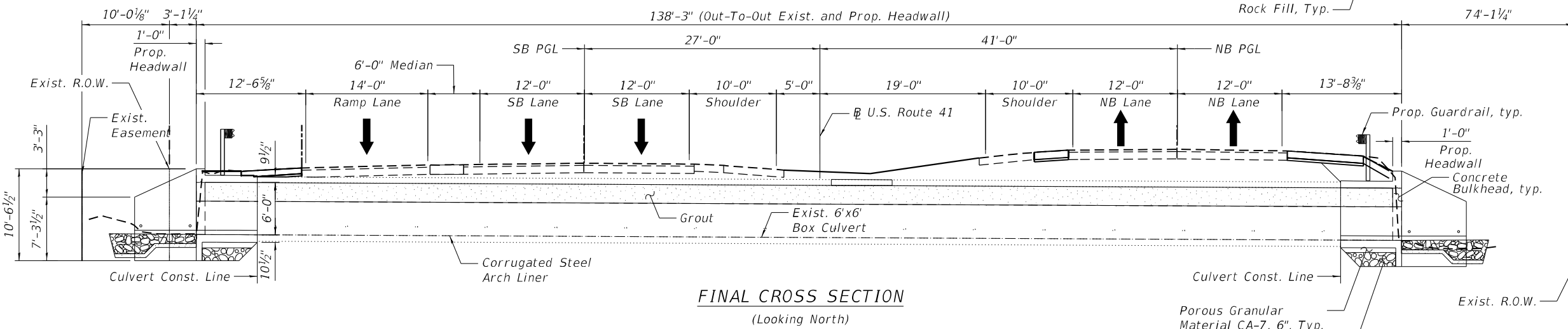
1. Install temporary concrete barrier as shown to locate construction work areas on the west side of the existing structure.
2. Install Temporary Sheet Piling as shown in Sheet S1-05.
3. Clean the inside of existing box culvert.
4. Remove portions of the existing shoulders on the west side of the roadway.
5. Remove the steel plate beam guardrail and guardrail posts at the west side of the road.
6. Remove the 7'-0" portion of the west culvert barrel, and remove the west headwall and wingwalls.



STAGE III CONSTRUCTION
(Looking North)

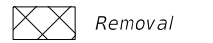
STAGE III CONSTRUCTION

1. Reconstruct the 7'-0" portion of the west culvert barrel and reconstruct the west headwall and wingwalls.
2. Install Corrugated Steel Arch Liner, pour Concrete Bulkhead and fill remaining area with grout. See Sheet S1-11 and Corrugated Steel Arch Liner special provision.
3. Install the guardrail at the west side of the road.
4. Reconstruct the shoulders on the west side of the roadway.



FINAL CROSS SECTION
(Looking North)

LEGEND:



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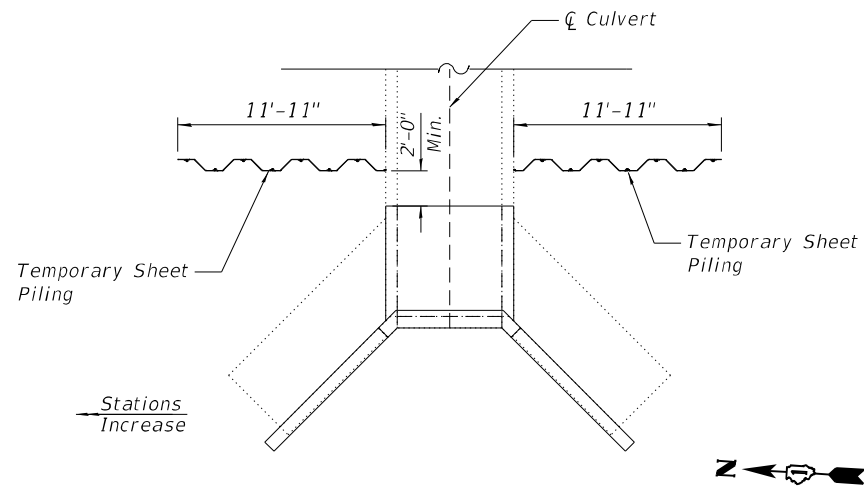
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

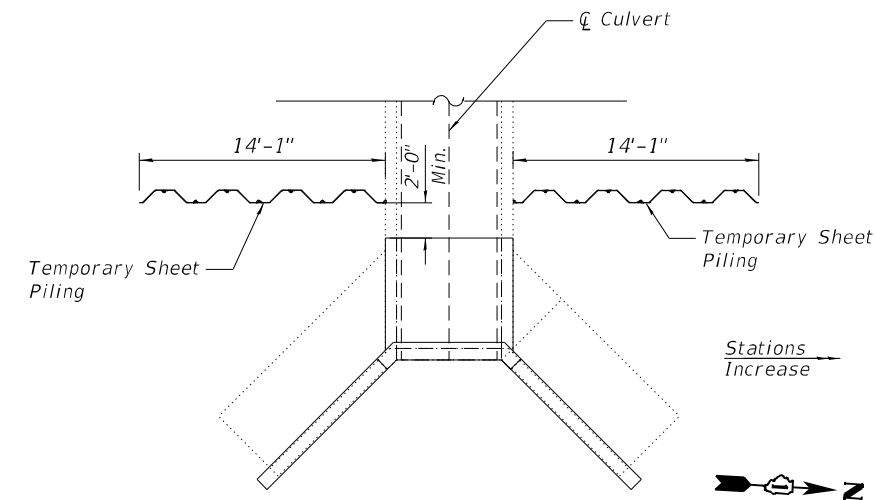
STAGE REMOVAL AND CONSTRUCTION (SHEET 2 OF 2)
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	68
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

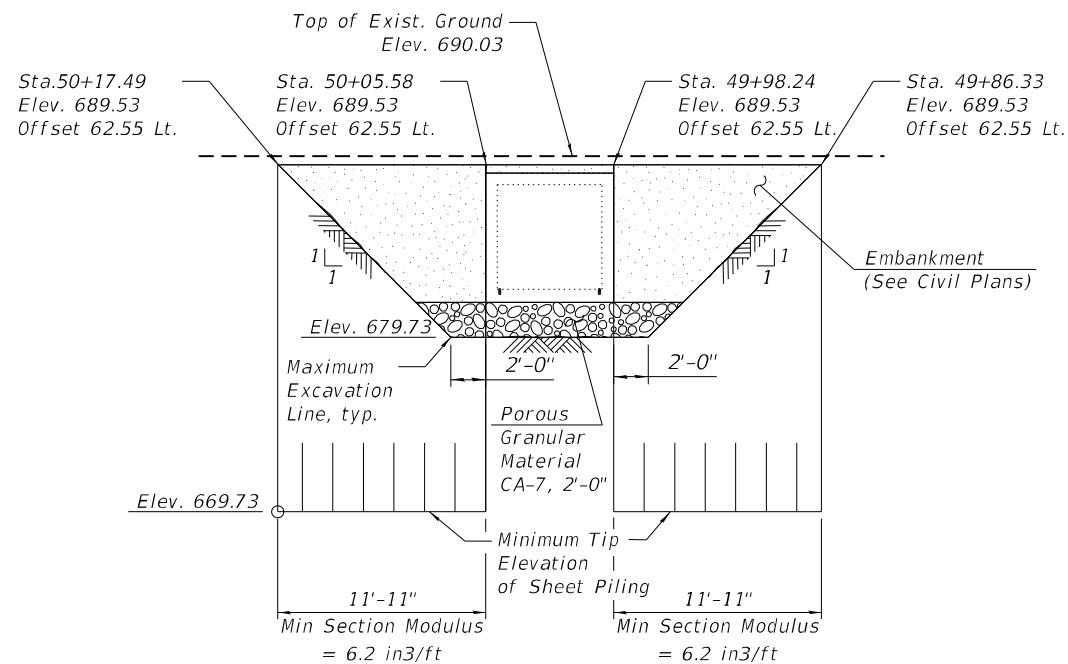
SHEET S1-04 OF S1-12 SHEETS



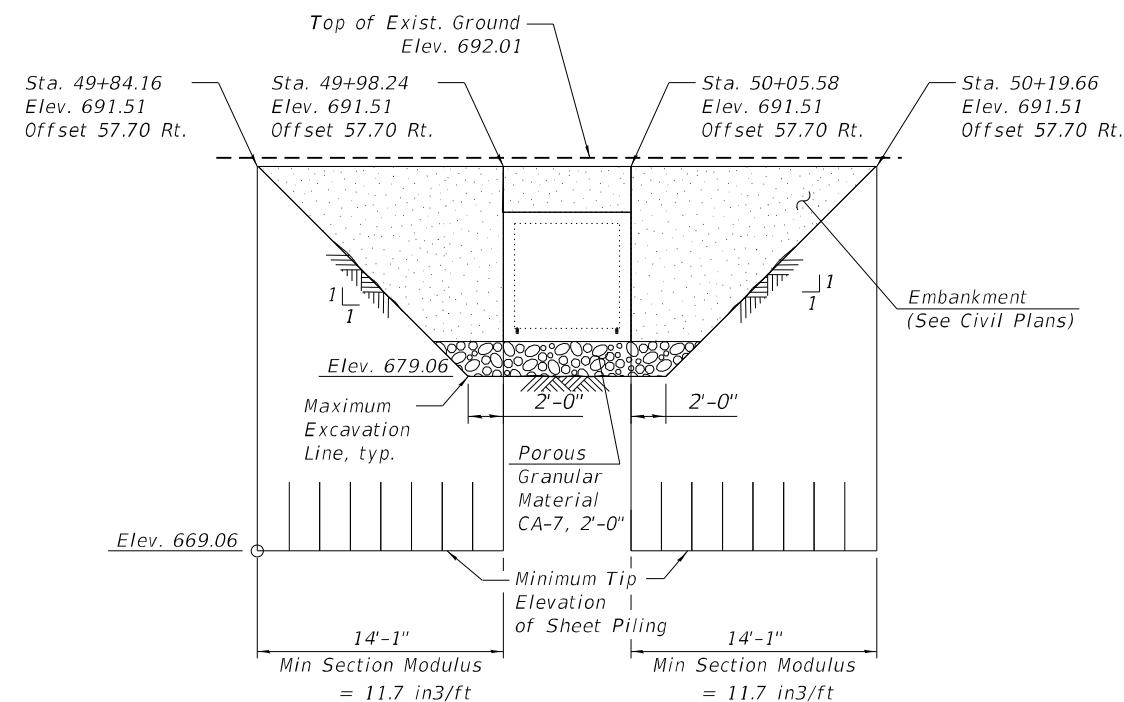
PARTIAL PLAN AT WEST CULVERT END



PARTIAL PLAN AT EAST CULVERT END



ELEVATION - TEMPORARY SHEET PILING AT WEST CULVERT END
(Looking East)



ELEVATION - TEMPORARY SHEET PILING AT EAST CULVERT END
(Looking West)

LEGEND

- Porous Granular Material CA-7, 2'-0"
- Temporary Sheet Piling

NOTE:

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirement shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

BILL OF MATERIAL

ITEM	UNIT	Quantity
Temporary Sheet Piling	Sq Ft	1,105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

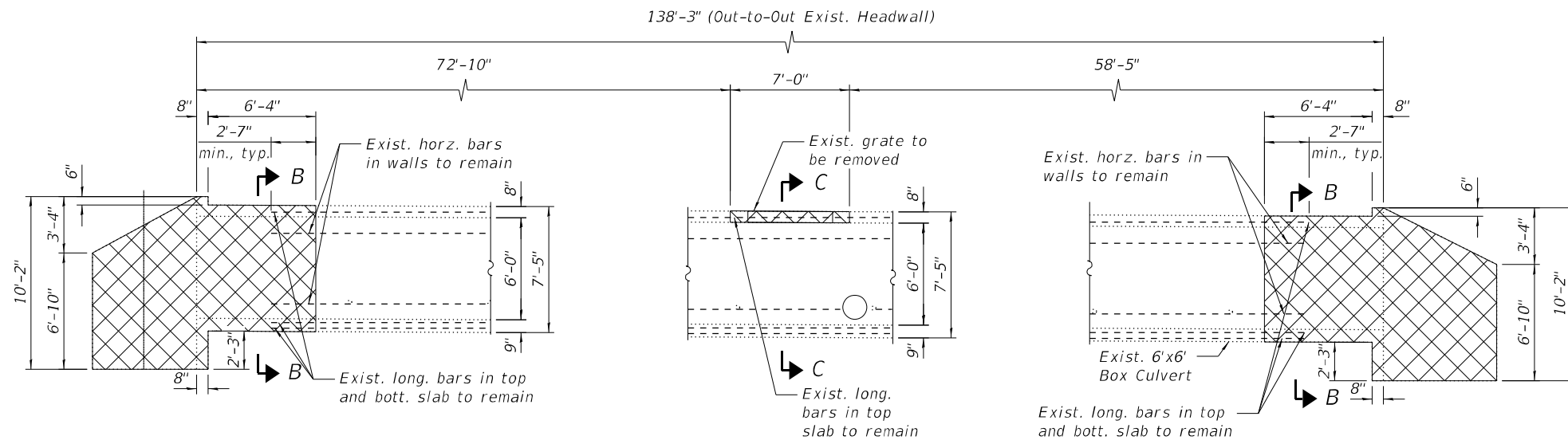
TEMPORARY SHEET PILING
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S1-05 OF S1-12 SHEETS

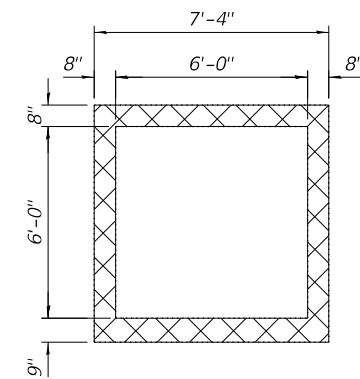
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346	2019-049-T	LAKE	139	69
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

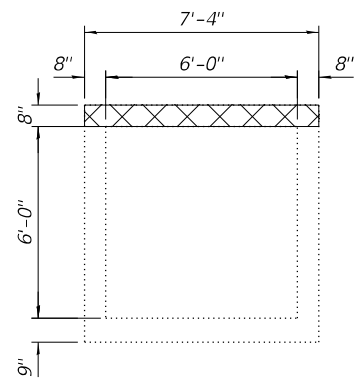
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Concrete Removal	Cu Yd	25.2



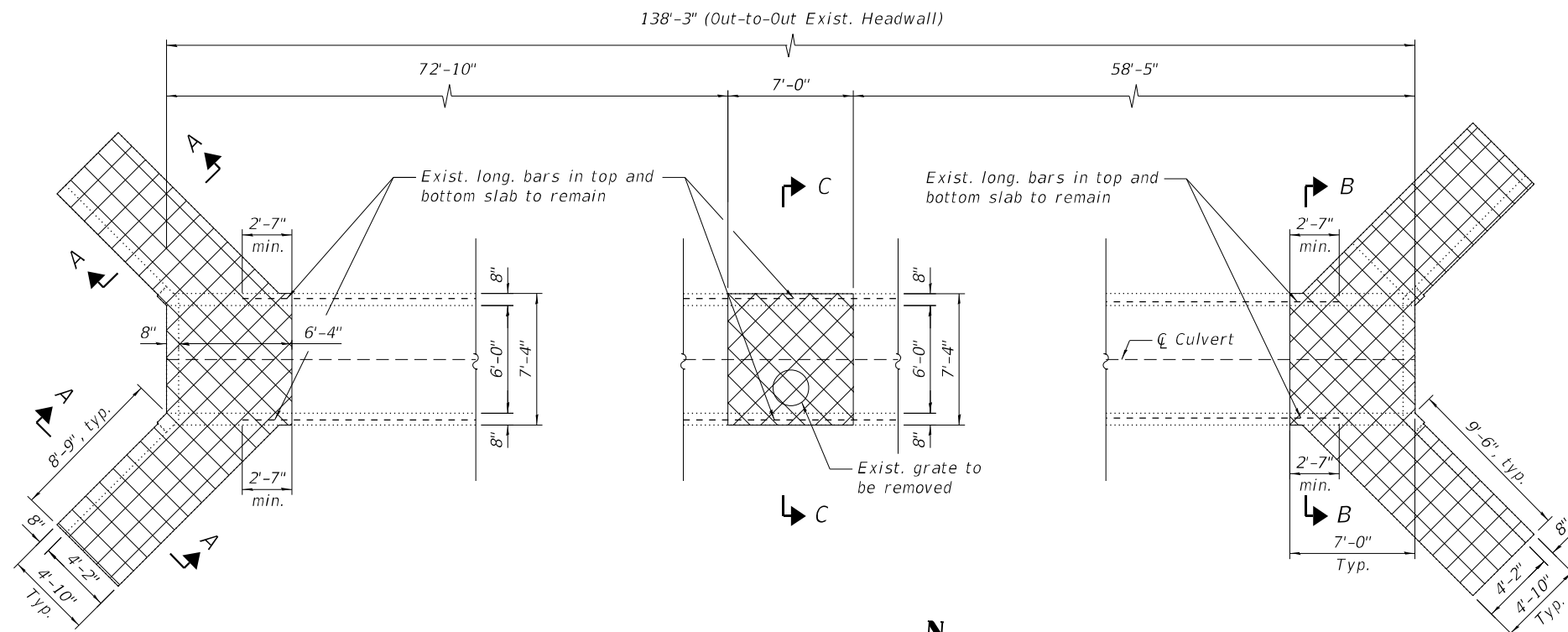
PARTIAL ELEVATION
(Looking North)



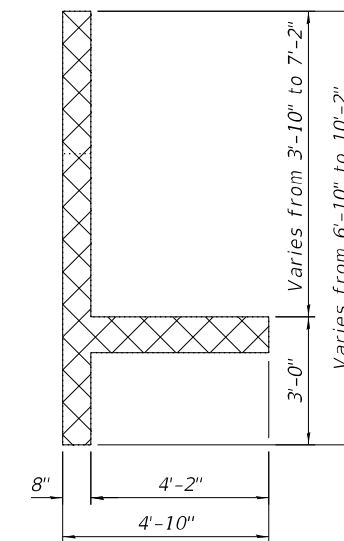
SECTION B-B



SECTION C-C



PARTIAL PLAN



SECTION A-A

NOTES:

1. For Temporary Sheet Piling, see Sheet S1-05.
2. Existing reinforcement shall be cleaned 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.
3. Removal of steel wide flange on the west end cost should be included with Concrete Removal.

LEGEND:



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PLOT DATE =	DRAWN - FL	REVISED -
	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING CULVERT PARTIAL REMOVAL
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

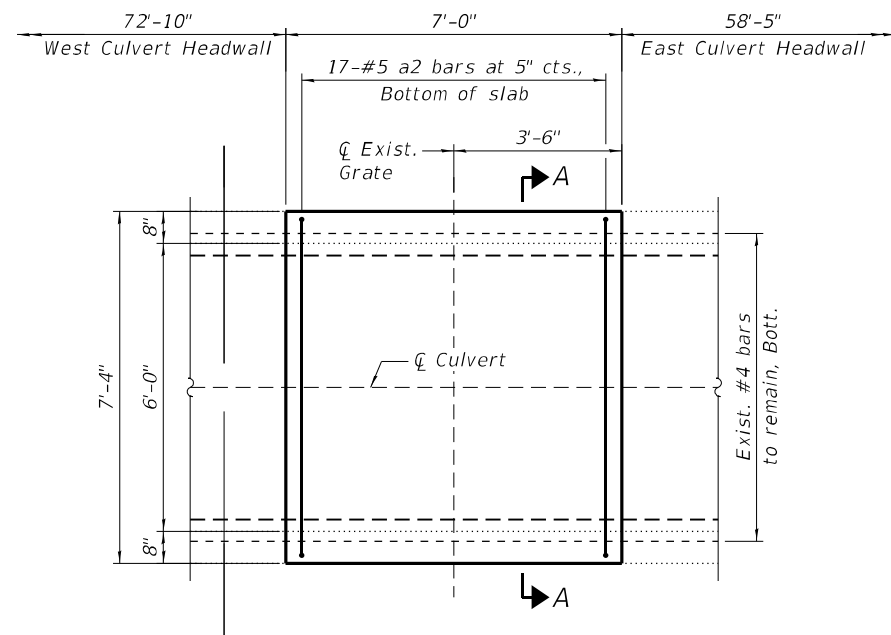
SHEET S1-06 OF S1-12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	70
CONTRACT NO. 62J26				

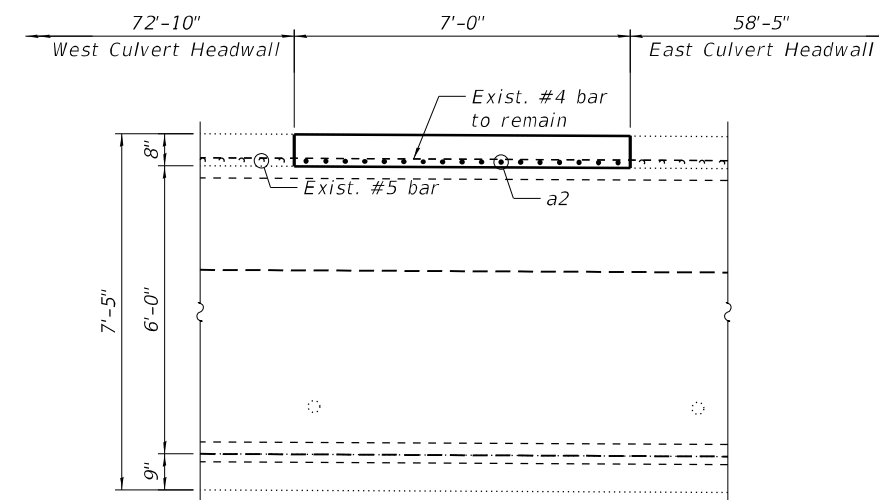
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

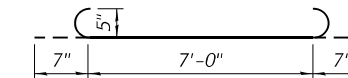
Bar	No.	Size	Length	Shape
a2	17	#5	8'-2"	↔
Reinforcement Bars			Pound	150
Concrete Box Culverts			Cu Yd	1.30
Membrane Waterproofing System For Buried Structures			Sq Yd	8.00



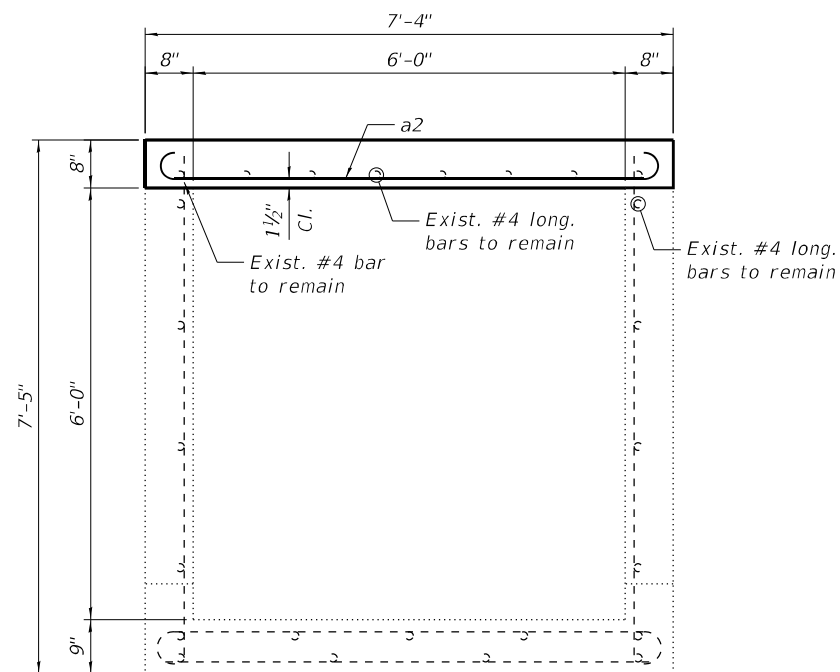
TOP SLAB RECONSTRUCTION - PARTIAL PLAN



TOP SLAB RECONSTRUCTION - PARTIAL ELEVATION



BAR a2



SECTION A-A

NOTES:

- Existing reinforcement shall be cleaned 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.

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO# 18 US 41 @ Unnamed Cr\CADD_Sheets\049-0228\16126-0490228-505B-TopSlab.dgn
9/22/2021 8:39:00 AM



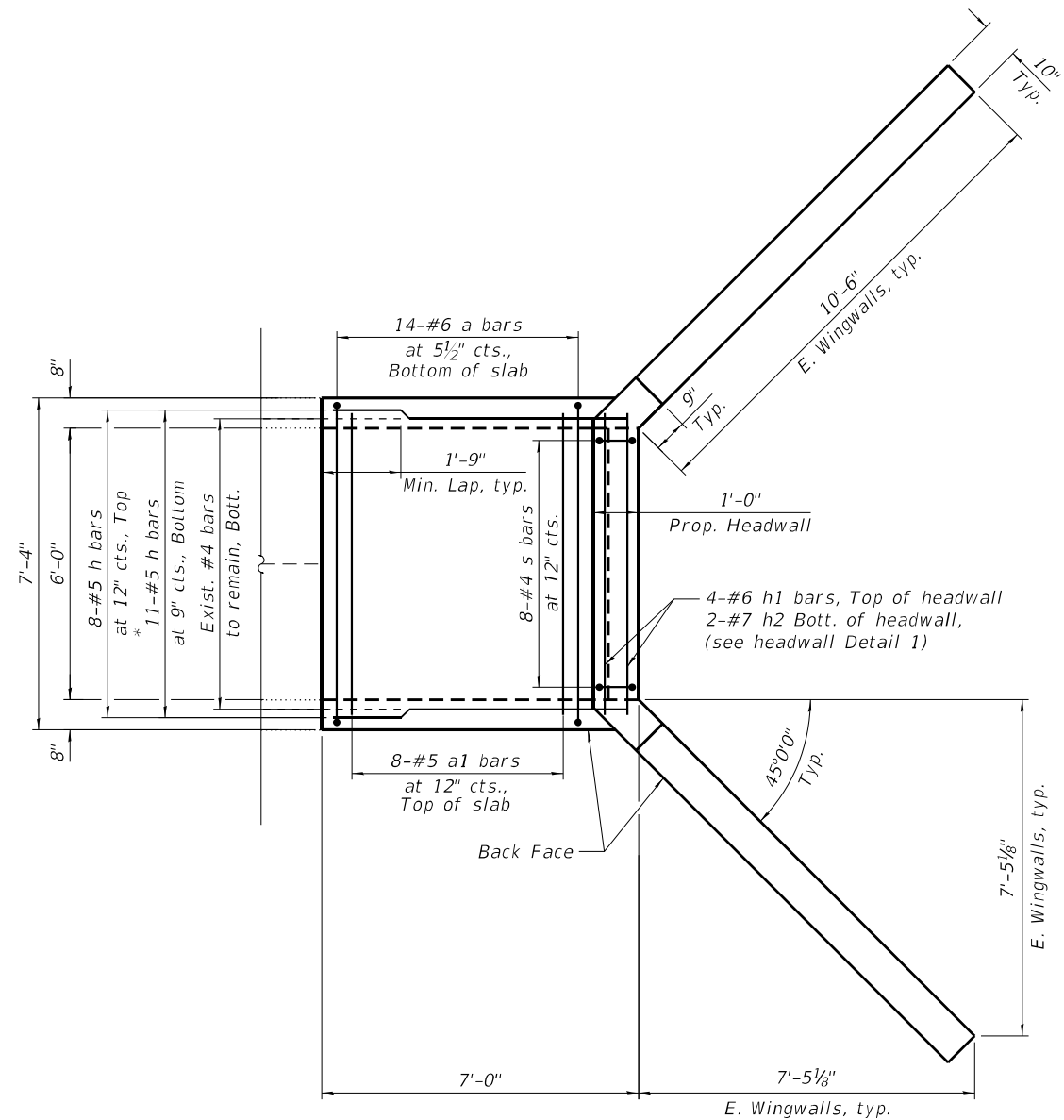
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	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

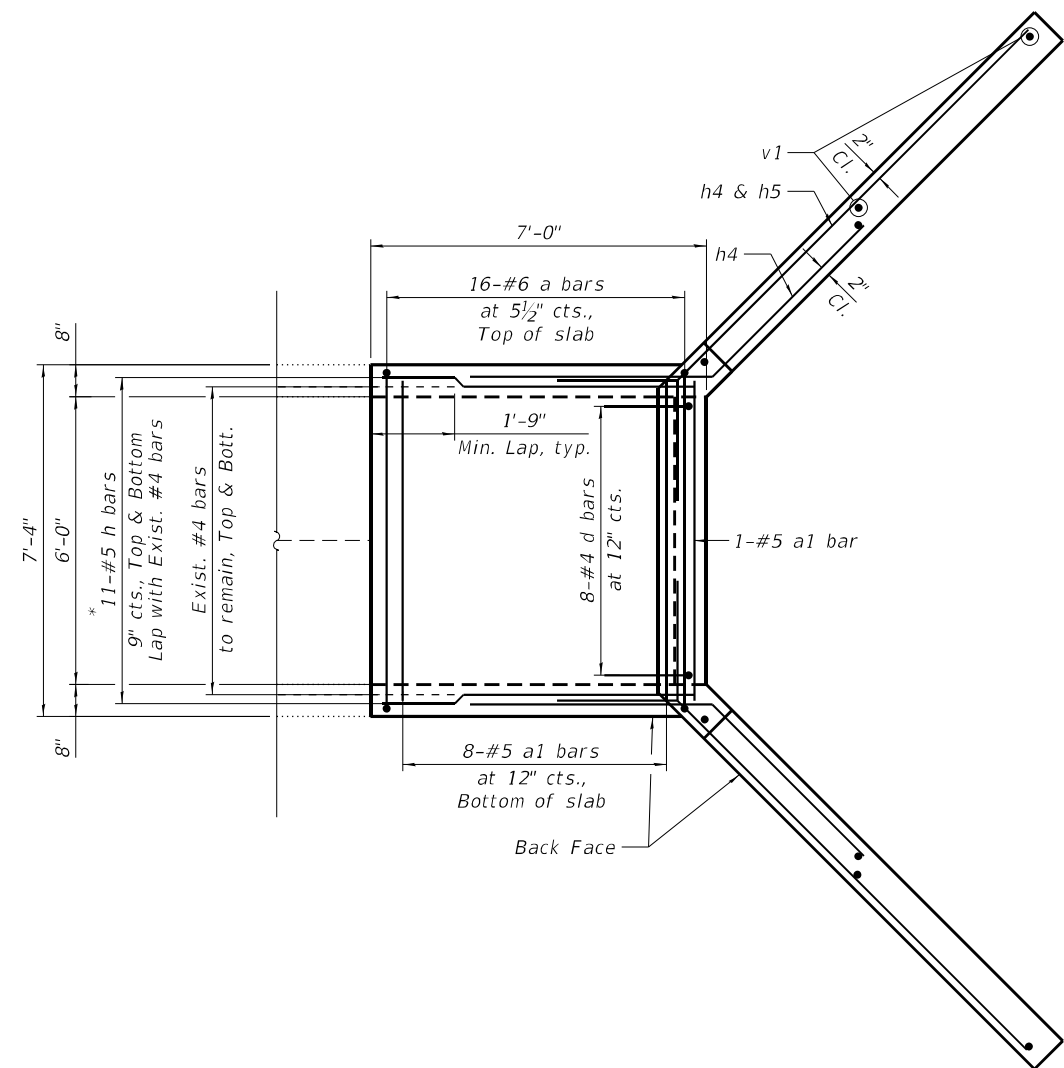
**TOP SLAB RECONSTRUCTION
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S1-07 OF S1-12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	71
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



EAST TOP SLAB PARTIAL PLAN



EAST BOTTOM SLAB PARTIAL PLAN



* Lap with existing reinforcement

NOTE:

1. For Sections, bar diagrams and Bill of Material, see Sheet S1-10.

MODEL: Default
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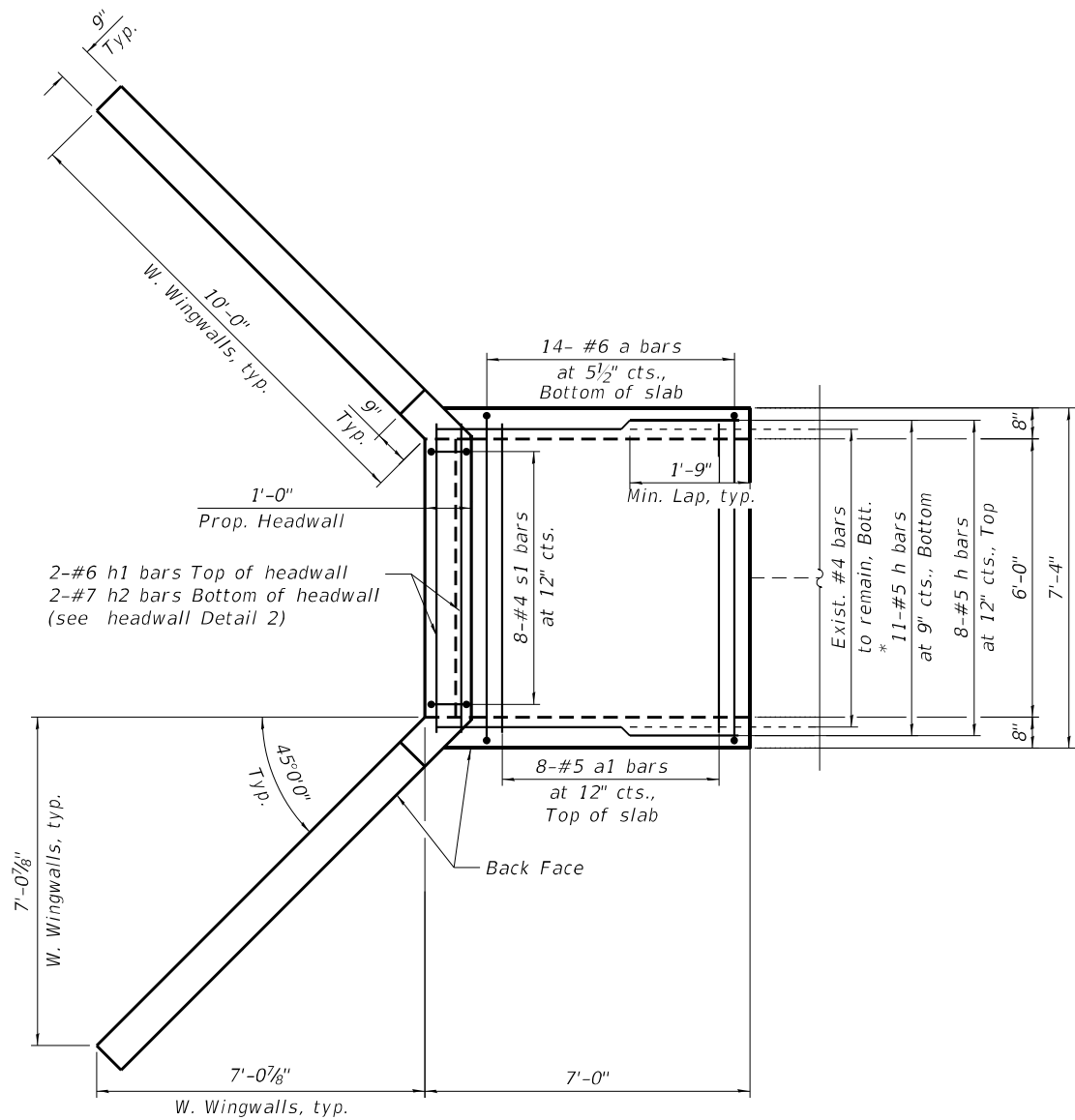
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT EAST END RECONSTRUCTION PLAN AND SECTIONS
 S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

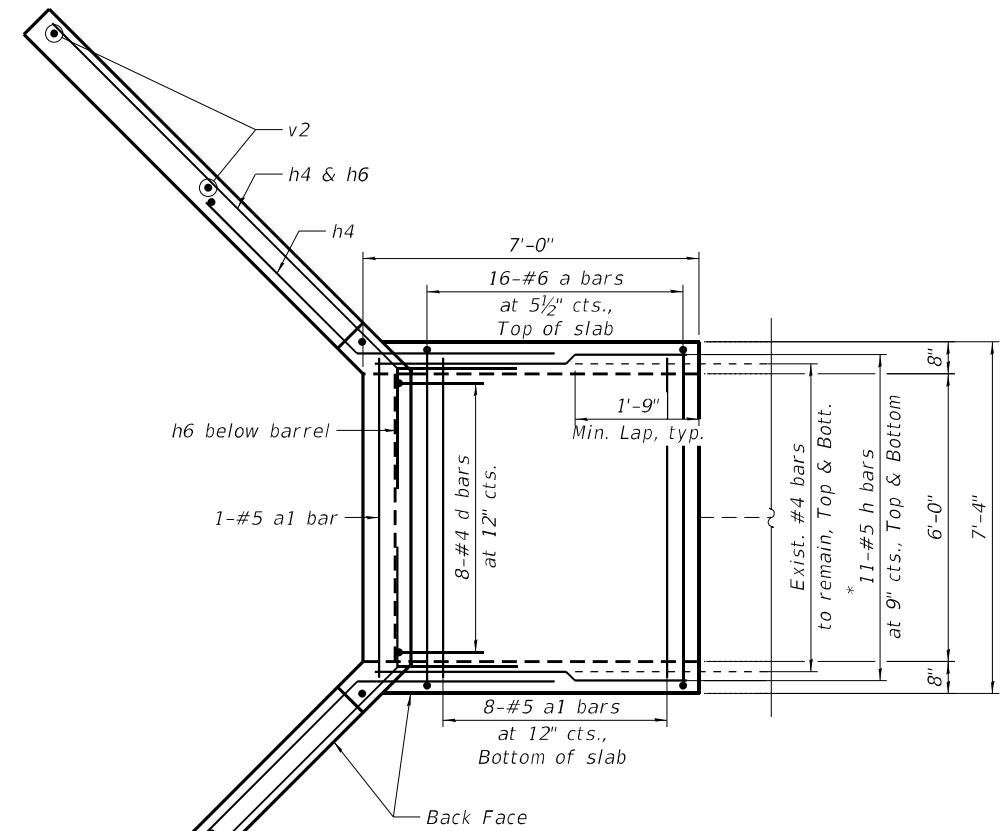
SHEET S1-08 OF S1-12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	72
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

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 9/22/2021 8:39:34 AM



WEST TOP SLAB PARTIAL PLAN



WEST BOTTOM SLAB PARTIAL PLAN

* Lap with existing reinforcement

NOTE:

- For Sections, bar diagrams and Bill of Material, see Sheet S1-10.



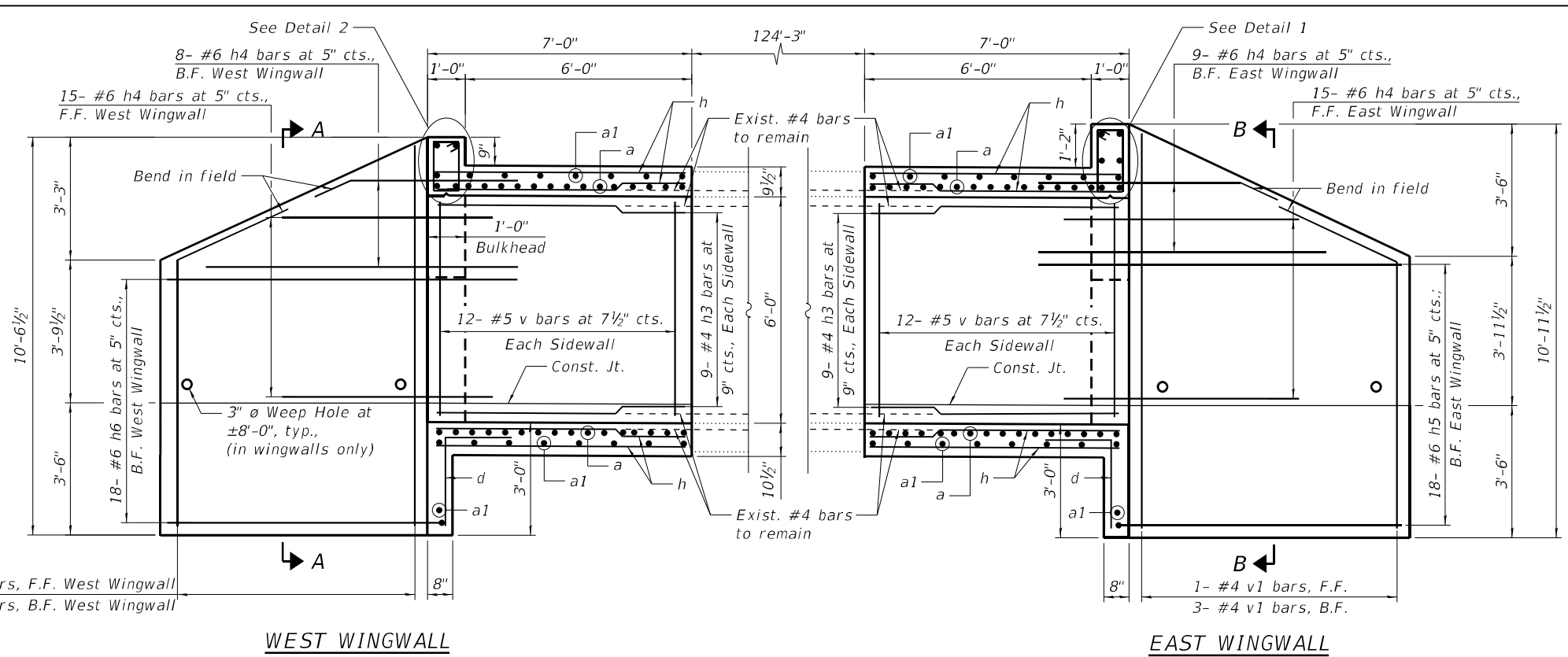
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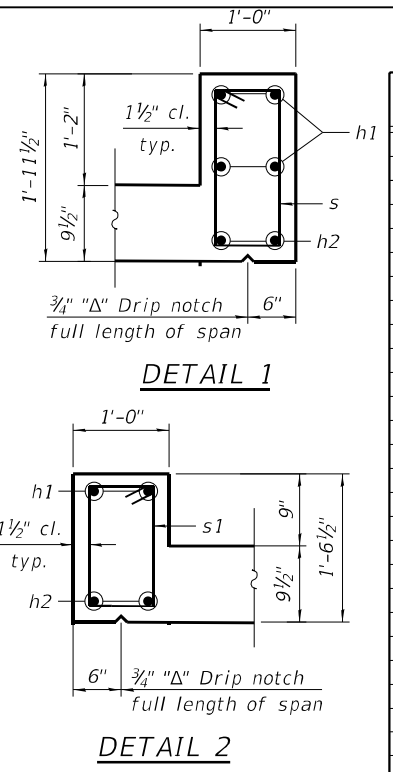
CULVERT WEST END RECONSTRUCTION PLAN AND SECTIONS
 S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62J26				
ILLINOIS		FED. AID PROJECT		

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LONGITUDINAL SECTION

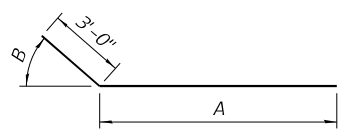


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	60	#6	8'-4"	U
a1	34	#5	7'-0"	
d	16	#4	4'-5"	┌
h	82	#5	6'-8"	
h1	6	#6	7'-0"	
h2	4	#7	7'-0"	
h3	36	#4	6'-8"	
h4	94	#6	8'-0"	
h5	36	#6	13'-6"	
h6	36	#6	13'-0"	
h7	20	#5	2'-8"	
h8	12	#5	5'-9"	
s	8	#4	5'-7"	□
s1	8	#4	4'-9"	□
s2	2	#4	10'-6"	○
v	48	#5	7'-3"	
v1	8	#6	10'-8"	
v2	8	#6	10'-3"	
v3	28	#5	3'-7"	
v4	4	#5	5'-8"	
Reinforcement Bars			Pound	5,400
Concrete Box Culverts			Cu Yd	24.20
Membrane Waterproofing System For Buried Structures			Sq Yd	14

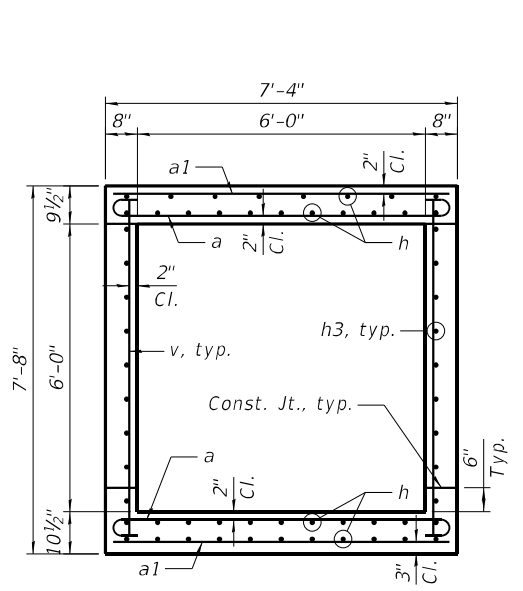
MINIMUM BAR LAP

#4	1'-9"
#5	2'-2"

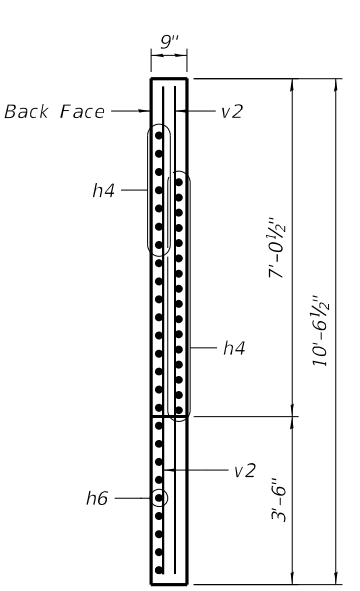


BARS h4 THRU h6

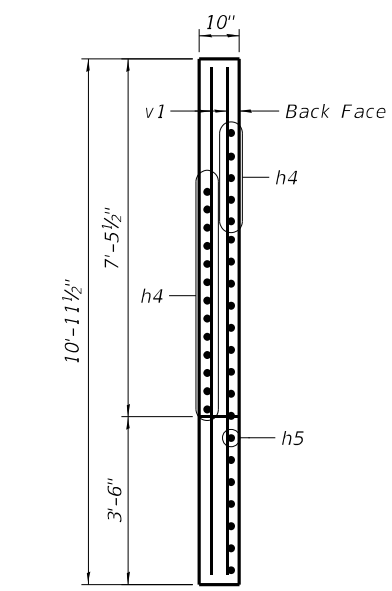
Bar	A	B
h4	5'-0"	45°0'0"
h5	10'-6"	45°0'0"
h6	10'-0"	45°0'0"



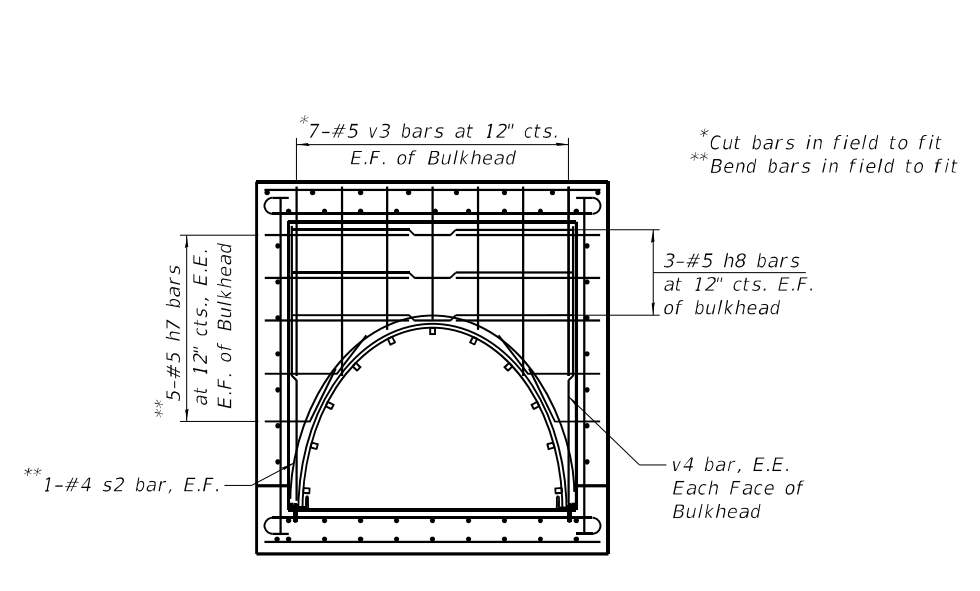
SECTION THRU BARREL



SECTION A-A



SECTION B-B



SECTION THRU END OF BARREL

NOTES:

- All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
- The culvert barrels shall be poured monolithically with the wingwalls.



USER NAME =	DESIGNED - FL, EBK, LAB	REVISED -
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PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

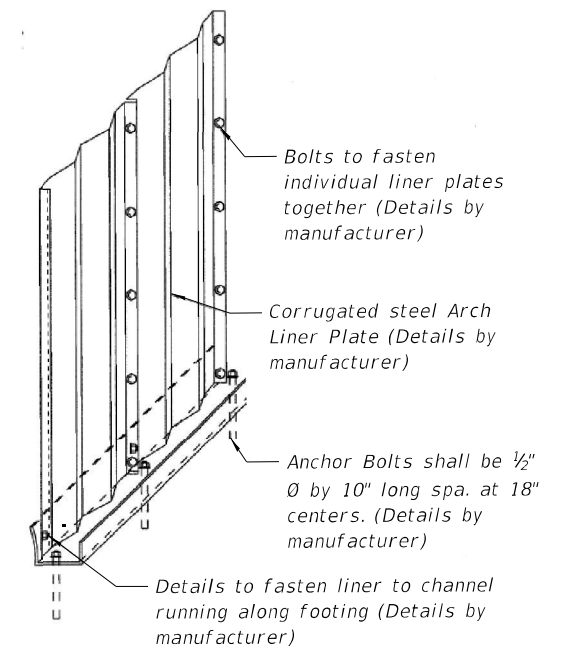
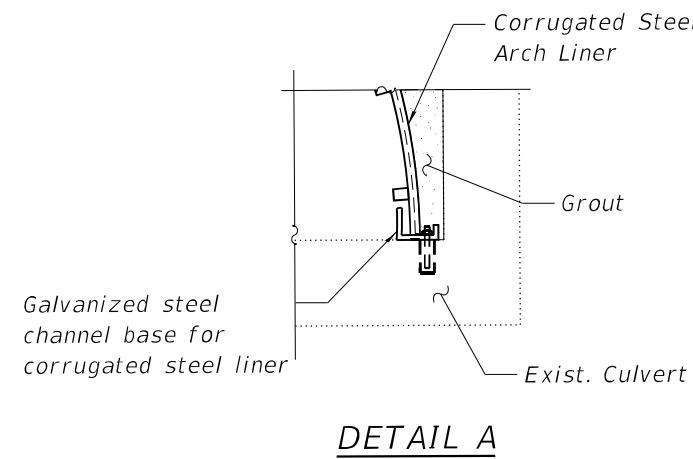
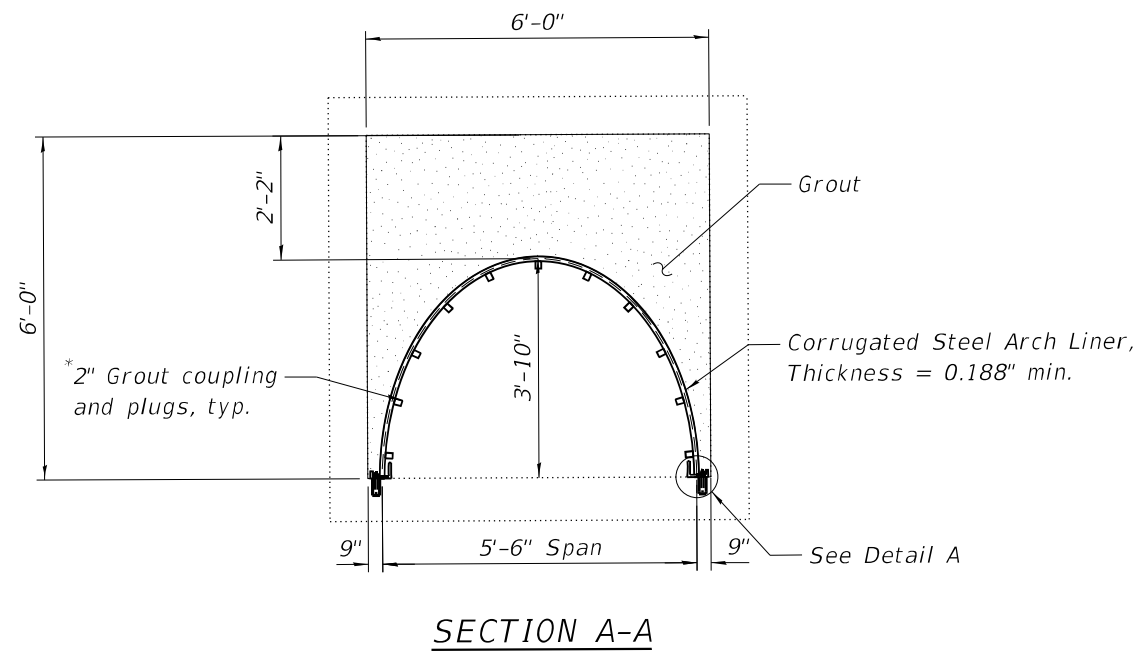
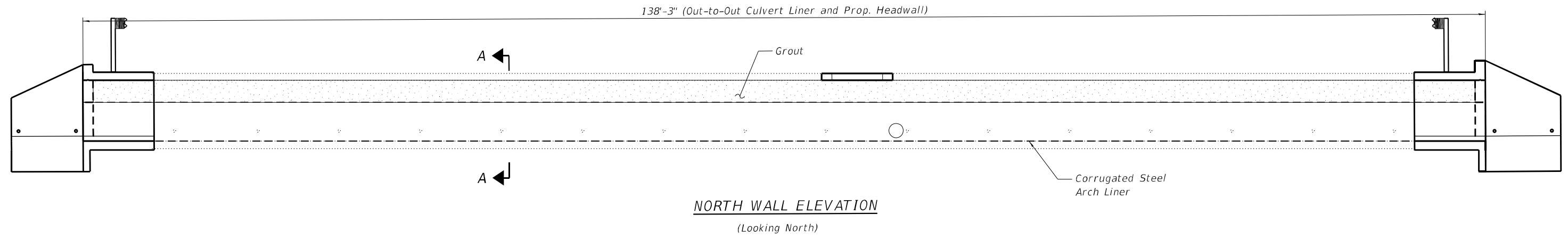
**CULVERT SECTIONS AND DETAILS
 S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S1-10 OF S1-12 SHEETS

F.A.P. RTE. = 346	SECTION = 2019-049-T	COUNTY = LAKE	TOTAL SHEETS = 139	SHEET NO. = 74
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Corrugated Steel Arch Liner	Foot	139



* Location and spacing of grout couplings shall be in accordance with manufacturer's recommendations. Typically, grouting proceeds from bottom to top with a two foot maximum per lift. Both sides of the arch may be done simultaneously or alternately, but sides must be allowed to set before beginning the next lift.

NOTES:

1. The grout shall be pumped in at a pressure no greater than 5 psi.
2. The cost including all material, equipment and labor to install the steel arch liner, anchor bolts, connecting bolts, grout, and all other material required to build the steel arch liner shall be included in the cost of Corrugated Steel Arch Liner.

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PLOT DATE =	DRAWN - FL	REVISED -
	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT LINER DETAILS
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S1-11 OF S1-12 SHEETS

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 75
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 2
Date 3/26/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY ES/RM
North of Illinois 173 to South of Westleigh LOCATION SN-049-0228, SEC., TWP., RNG.,
Latitude, Longitude
COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
SN-049-0228 50+01.8					N/A				
BORING NO. SN-049-0228-B-1 Station 49+90 Offset 57.00ft Right Ground Surface Elev. 691.76					673.3				
6 inches of Asphalt	691.26								
Brown and Gray, Moist FILL: SAND, with gravel	9								
	5								
	5								
688.26									
Brown, Gray and Black, Moist FILL: SILTY CLAY, trace gravel	3								
	4	4.5							
	8	P							
	-5								
	2								
	2	2.0							
	3	P							
	1								
	2	2.5							
	3	P							
	-10								
680.26									
Very Stiff Brown, Moist SILTY CLAY (CL/ML)	3								
	5	3.0							
	4	P							
	2								
	2	3.5							
	4	P							
	-15								
673.26									
Loose Brown, Moist SILTY SAND, with gravel (SM)	2								
	4								
	5								
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2
Date 3/26/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY ES/RM
North of Illinois 173 to South of Westleigh LOCATION SN-049-0228, SEC., TWP., RNG.,
Latitude, Longitude
COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
SN-049-0228 50+01.8					N/A				
BORING NO. SN-049-0228-B-1 Station 49+90 Offset 57.00ft Right Ground Surface Elev. 691.76					673.3				
Limestone fragments at 39.5 feet End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1
Date 3/13/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY PS/RM
North of Illinois 173 to South of Westleigh LOCATION SN-049-0228, SEC., TWP., RNG.,
Latitude, Longitude
COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
SN-049-0228 50+01.8					N/A				
BORING NO. SN-049-0228-B-2 Station 49+90 Offset 62.00ft Left Ground Surface Elev. 689.78					None				
6 inches of Asphalt	689.28								
Brown and Gray, Moist to Wet FILL: SILTY CLAY LOAM, with sand, some gravel	3								
	5	1.9							
	4	B							
	2								
	2	0.4							
	3	B							
	-5								
	2								
	3	2.9							
	5	B							
	2								
	2	1.0							
	3	P							
	-10								
678.28									
Very Stiff Gray and Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)	6	3.5							
	7	B							
	6								
	12	2.9							
	10	B							
	-15								
671.28									
Loose Brown, Moist SILTY SAND, with gravel (SM)	3								
	5	2.9							
	8	B							
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG
S.N. 049-0228 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK
SHEET S1-12 OF S1-12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	76
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

Bench Mark: Cutcross on top of barrier wall (Located approximately 250' North of SN 049--2016). Elevation 670.86.

Existing Structure: The structure at US 41 is located 0.6 miles north of Stearns School Rd is a single cell reinforced concrete box culvert. The culvert is approximately 112'-9 1/2" in length (out-to-out headwalls). The cell width and height are both approximately 6'-0". The structure spans east to west and carries two lanes of northbound and southbound traffic for a total of four traffic lanes. A metal guardrail is present on both sides of the culvert.

Salvage: No Salvage.
Precast alternative is not allowed.

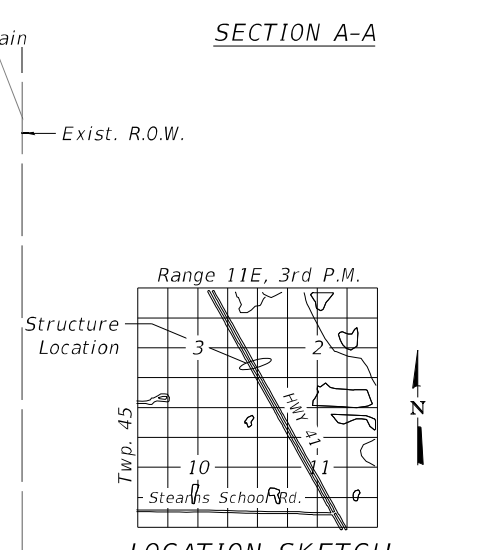
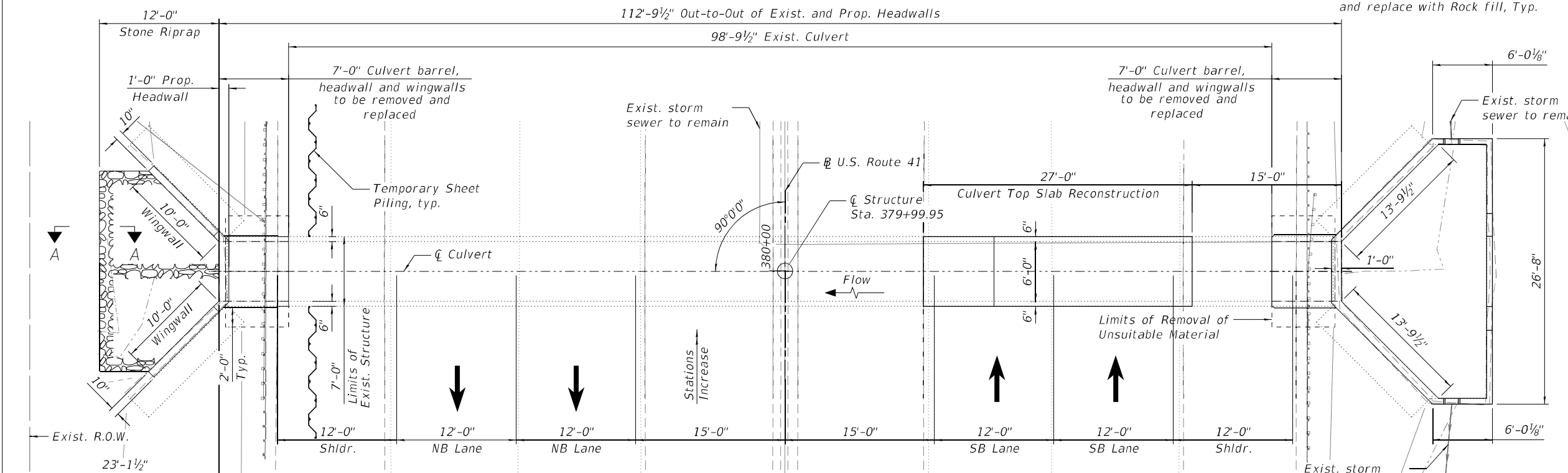
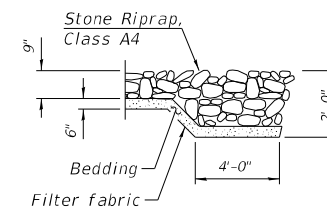
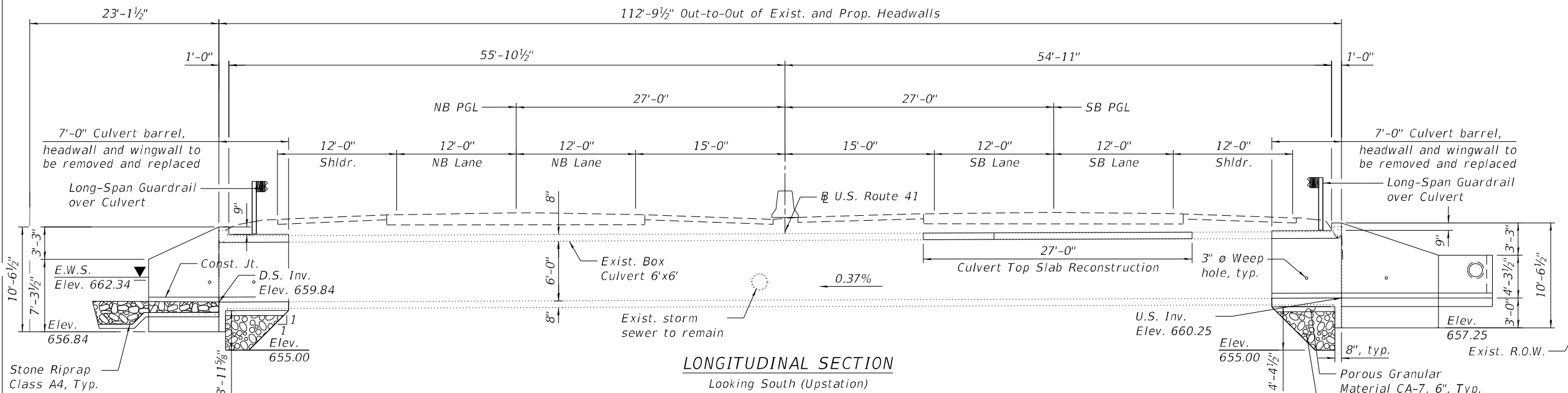
Boring	Station	Offset
B-1	370+00	45.00' Rt.
B-2	360+00	45.00' Lt.

NOTE:

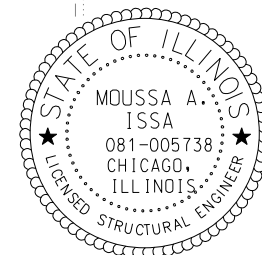
1. For General Notes, Scope of Work, Waterway Information Table, Index of Sheets and Bill of Material, see Sheet S2-02.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Design Specifications, 8th Edition



- LEGEND:**
- Temporary Sheet Piling
 - Prop. Guardrail
 - Limits of Removal of Unsuitable Material



Signed *Moussa A. Issa*
Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
Expires 11-30-2022
07/29/2021
For Sheets S2-01 thru S2-14
(Total of 14 Sheets)

GENERAL PLAN
U.S. 41 (SKOKIE HIGHWAY) OVER
SMALL CREEK
F.A.P. 346 SECTION 124X
LAKE COUNTY
STA. 380+00.00
STRUCTURE NO. 049-2016

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	77
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

1. 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.
2. It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
3. The presented elevations and limits of the existing structure have been take from historical design drawings and Survey data. Dimensions may not present "as-built" condition. All existing structure limits shall be field verified by the contractor and coordinated with the engineer prior to ordering materials, fabrication and construction of the proposed culvert extension.
4. 2-Year Flow (Q) = 15.7 cfs

SCOPE OF WORK:

1. Remove and reconstruct the 7'-0" of the east and west portions of culvert barrel.
2. Remove and reconstruct the west and east culvert headwalls and wingwalls.
3. Remove and reconstruct the 27'-0" portion of the culvert top slab over the SB lane.
4. Remove and reerect the new steel plate beam guardrails and guardrail posts on the east and west sides of the roadway.
5. Pave Frontage Road gore and remove existing Frontage Road curb.
6. Remove and reconstruct the portions of the shoulder on the east and west sides of the roadway.

INDEX OF SHEETS

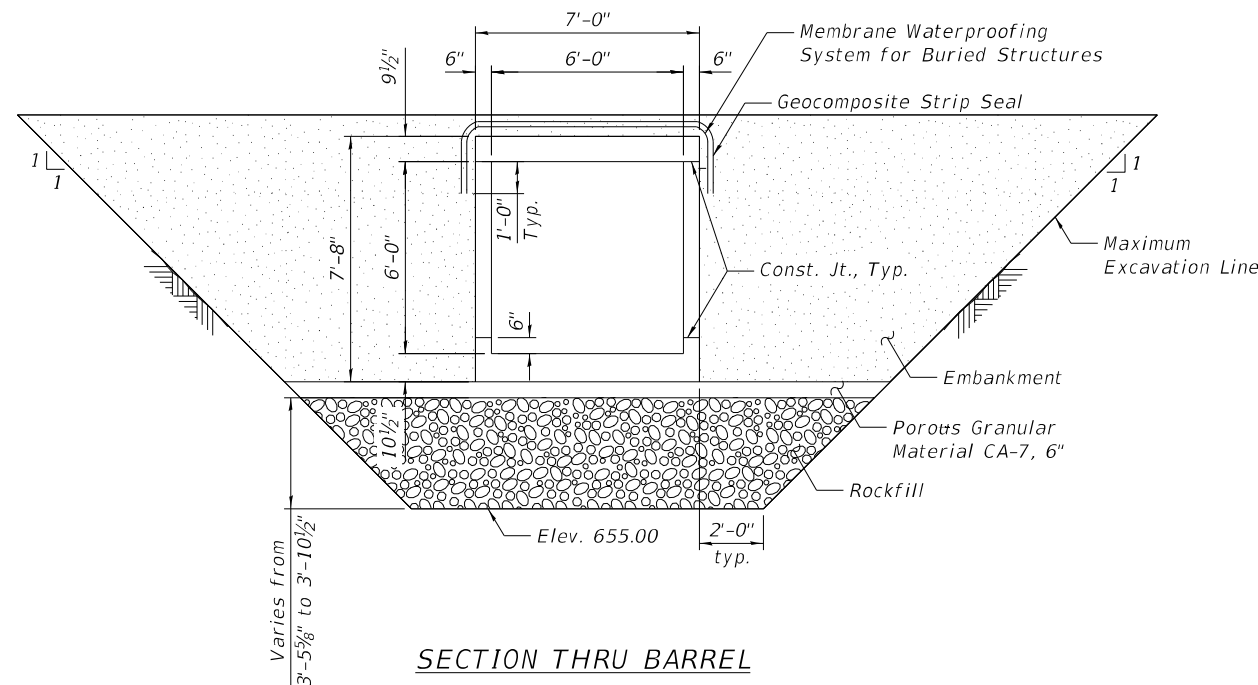
- S2-01 General Plan
- S2-02 General Notes, Index of Sheets & Total Bill of Material
- S2-03 Stage Removal and Construction (Sht 1 of 2)
- S2-04 Stage Removal and Construction (Sht 2 of 2)
- S2-05 Temporary Sheet Piling
- S2-06 Existing Structure Partial Removal
- S2-07 Top Slab Reconstruction
- S2-08 Culvert East End Reconstruction Plan
- S2-09 Culvert West End Reconstruction Plan
- S2-10 Culvert West End Sections and Dropbox Details
- S2-11 Culvert Sections and Details
- S2-12 Culvert Repairs
- S2-13 Bar Splicers
- S2-14 Boring Logs

STATION 379+99.95
RE-BUILT 202* BY
STATE OF ILLINOIS
F.A.P. 346 SECTION 2019-049-T
LOADING HL-93
STRUCTURE NO. 049-2016

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal And Disposal Of Unsuitable Material	Cu Yd	22.6
Stone Riprap, Class A4	Sq Yd	22
Filter Fabric	Sq Yd	22
Concrete Removal	Cu Yd	45.3
Concrete Structures	Cu Yd	19.5
Reinforcement Bars	Pound	10,970
Bar Splicers	Each	16
Name Plates	Each	1
Temporary Sheet Piling	Sq Ft	512
Concrete Box Culverts	Cu Yd	20.9
Polymer Modified Portland Cement Mortar	Sq Ft	38
Membrane Waterproofing System For Buried Structures	Sq Yd	41
Box Culverts To Be Cleaned	Foot	99
Rock Fill	Cu Yd	22.6



SECTION THRU BARREL

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PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S2-02 OF S2-14 SHEETS

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 78
			CONTRACT NO. 62J26	
		ILLINOIS FED. AID PROJECT		

STAGE I - REMOVAL

1. Install temporary Concrete barrier as shown to locate Construction work areas on the east side of the existing structure.
2. Install Temporary Sheet Piling as shown on Sheet S2-05
3. Remove portions of the existing shoulders on the east side of the roadway.
4. Remove the steel plate beam guardrail and guardrail posts at the east side of the road.
5. Remove the 7'-0" portion of the east culvert barrel, and remove existing east headwall and wingwalls.

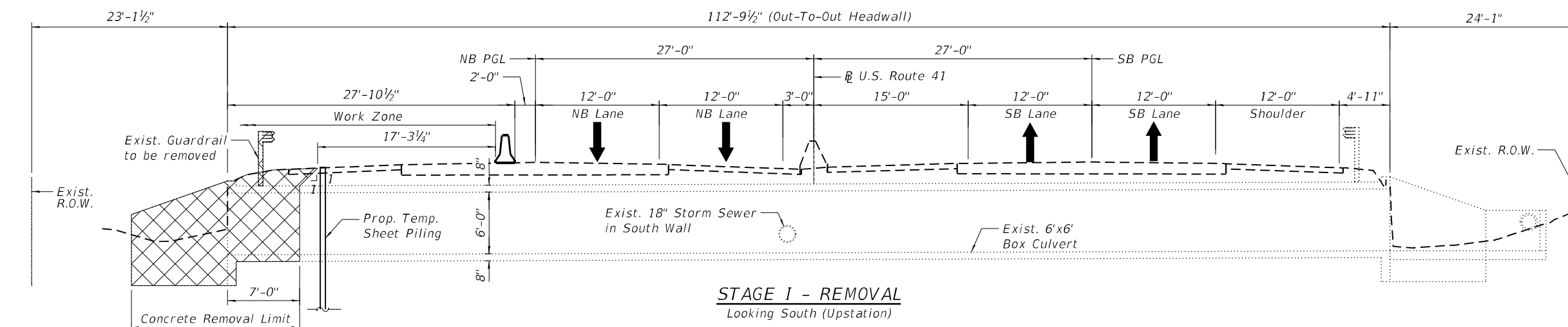
STAGE I - CONSTRUCTION

1. Reconstruct the 7'-0" portion of the east culvert barrels and reconstruct the east headwall and wingwalls.
2. Install the guardrail at the east side of the road.
3. Install Stone Riprap at east end of culvert.
4. Reconstruct the shoulders on the east side of the roadway.

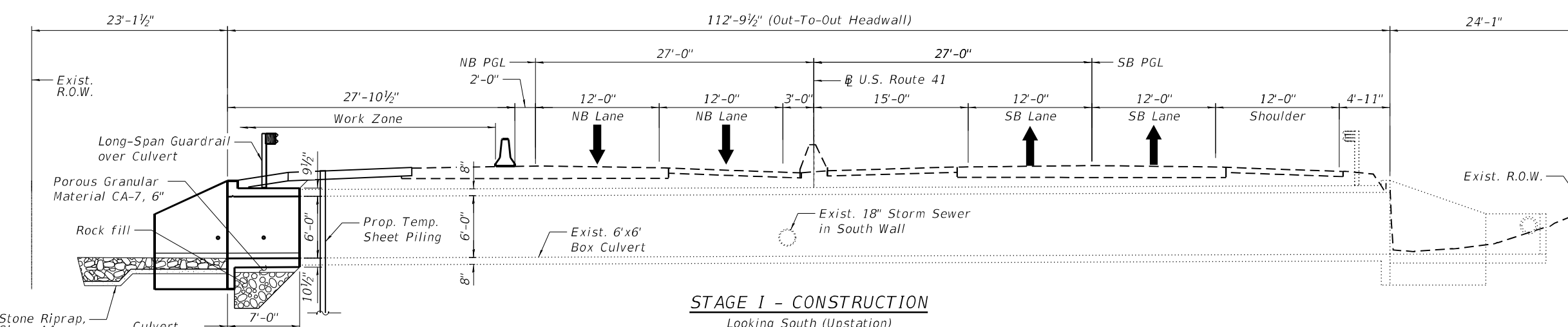
STAGE II - REMOVAL

1. Install temporary Concrete barrier as shown to locate Construction work area on the west sides of the existing structure.
2. Remove portions of the existing shoulders on the west sides of the roadway.
3. Remove the steel plate beam guardrail and guardrail posts at the west sides of the road.
4. Remove the 7'-0" portion of the west culvert barrels, and remove existing drop box on west end and west headwall and wingwalls.
5. Remove 19'-11" portion of top slab on the west side.

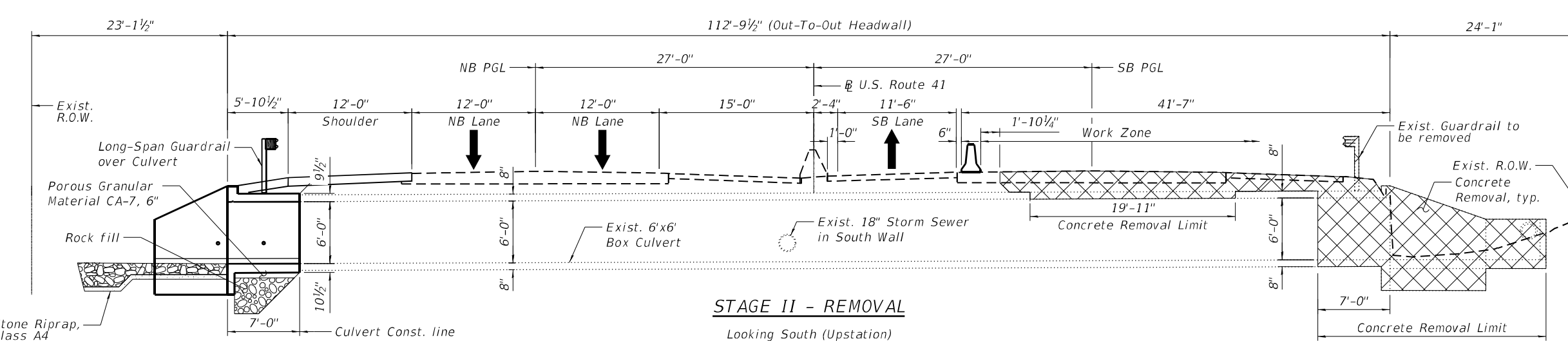
LEGEND:



STAGE I - REMOVAL
Looking South (Upstation)



STAGE I - CONSTRUCTION
Looking South (Upstation)



STAGE II - REMOVAL
Looking South (Upstation)

NOTE:
1. For pavement details, see civil plans.

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FILE NAME: P:\1710-745 PTB\185-002 AES\IWO#18 US 41 @ Unnamed Cr\CADD_Sheets\049-2016\161626-0492016-503A-Stage\ngldgn



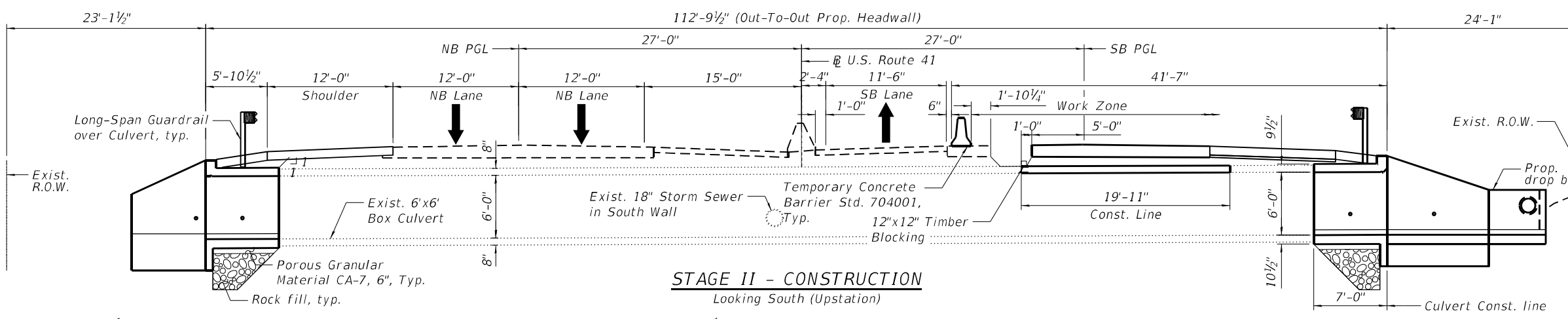
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PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - AMS	REVISED -
	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

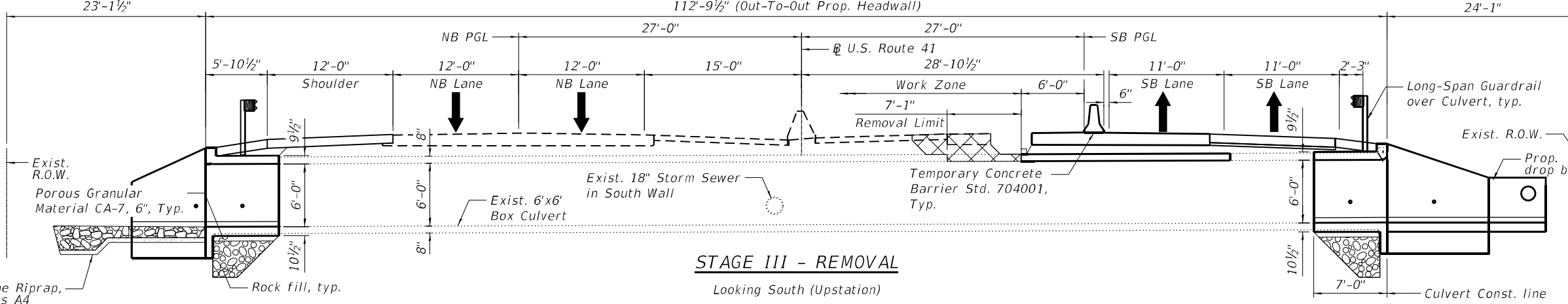
STAGE REMOVAL AND CONSTRUCTION (SHT 1 OF 2)
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	79
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

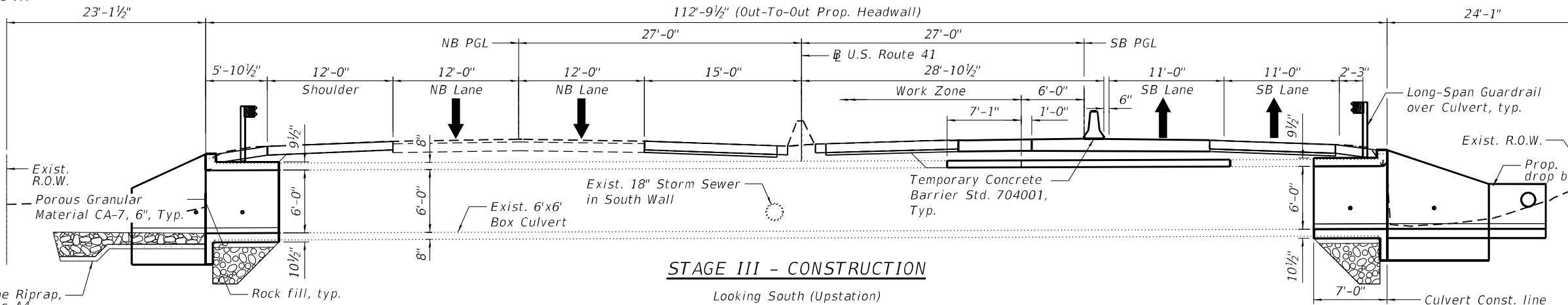
SHEET S2-03 OF S2-14 SHEETS



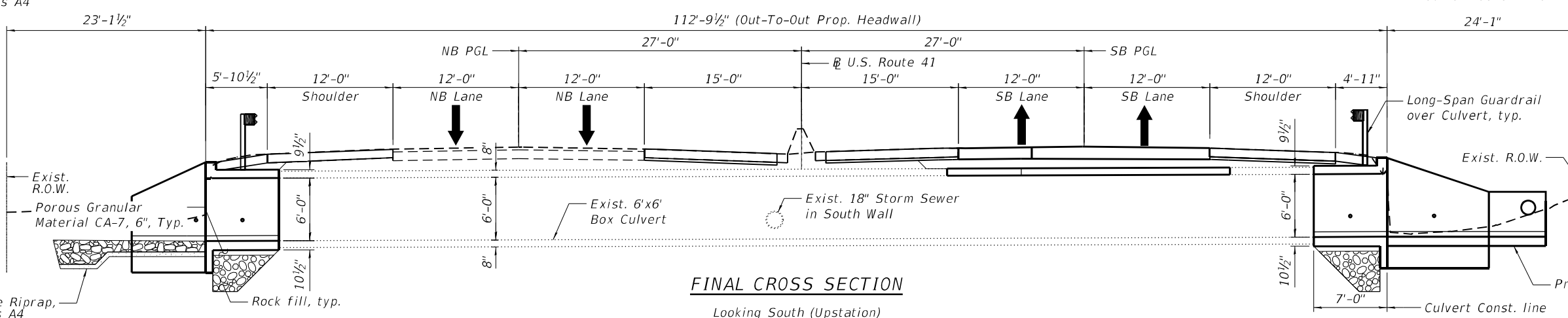
STAGE II - CONSTRUCTION
Looking South (Upstation)



STAGE III - REMOVAL
Looking South (Upstation)



STAGE III - CONSTRUCTION
Looking South (Upstation)



FINAL CROSS SECTION
Looking South (Upstation)

STAGE II - CONSTRUCTION

1. Reconstruct the 7'-0" portion of the west culvert barrel and reconstruct the west headwall and wingwalls.
2. Reconstruct 19'-11" portion of top slab as shown.
3. Install the guardrail at the west side of the roadway.
4. Reconstruct the shoulders on the west side of the roadway.

STAGE III - REMOVAL

1. Install temporary Concrete barrier as shown to locate Construction work areas on the west side of the SB Lane.
2. Clean the inside of existing box culvert.
3. Remove portions of the existing shoulders on the east side of the roadway.
4. Remove the 7'-1" portion of the culvert top slab as shown.

STAGE III - CONSTRUCTION

1. Reconstruct the 7'-1" portion of the culvert top slab as shown.
2. Reconstruct 19'-11" portion of top slab.
3. Reconstruct the shoulder and roadway on the east side of the SB roadway.

NOTE:
1. For pavement details, see civil plans.

LEGEND:
 Concrete Removal

MODEL: Default
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 9/22/2021 8:43:06 AM



USER NAME =	DESIGNED - EBK, FL	REVISED -
CHECKED - MI, MAI	REVISED -	
PLOT SCALE =	DRAWN - AMS	REVISED -
PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE REMOVAL AND CONSTRUCTION (SHT 2 OF 2)
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

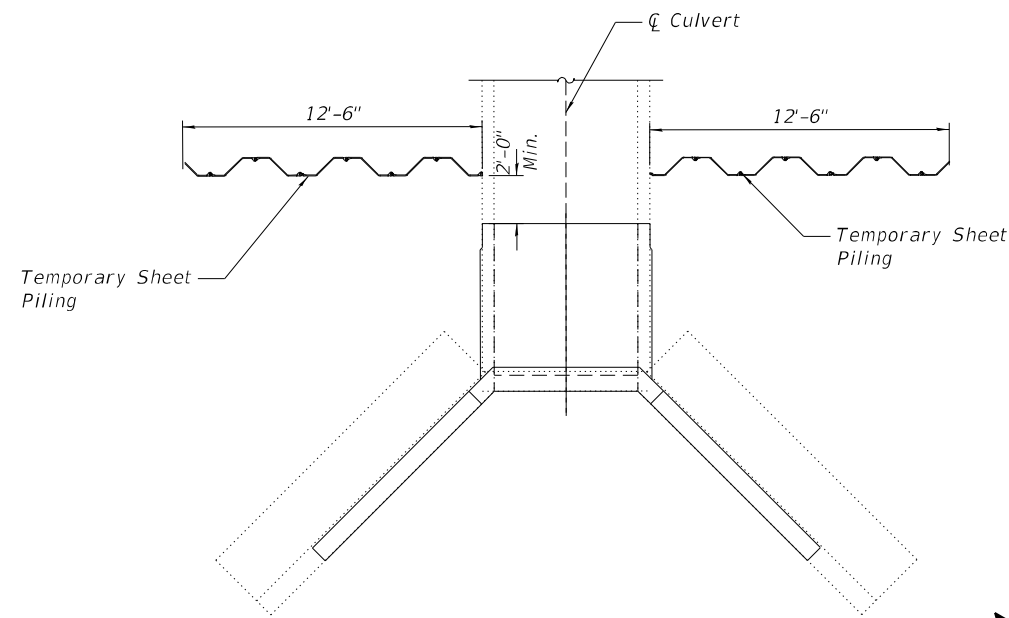
F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
346	2019-049-T	LAKE	139	80
CONTRACT NO. 62J26				

SHEET S2-04 OF S2-14 SHEETS

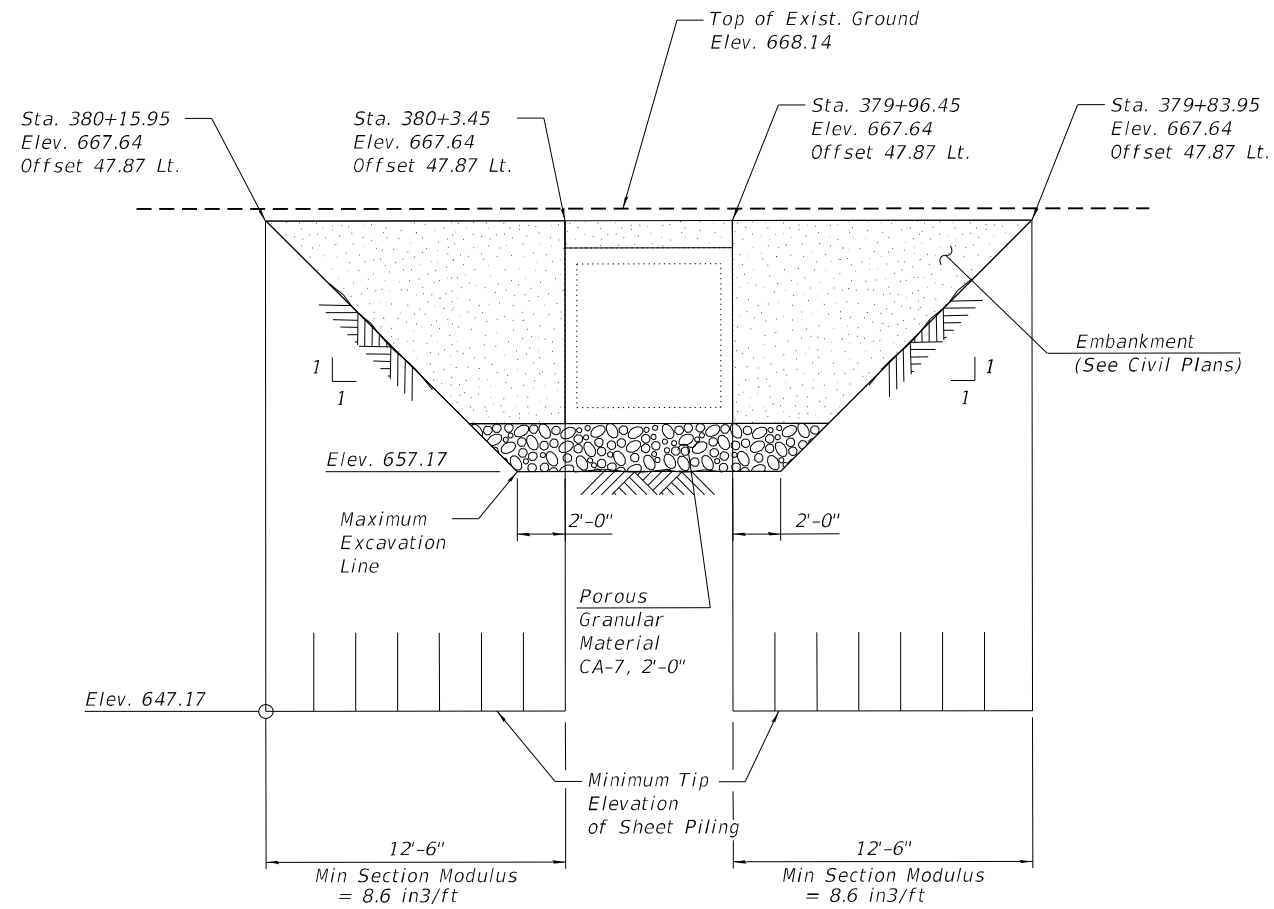
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	Quantity
Temporary Sheet Piling	Sq Ft	512



PARTIAL PLAN AT EAST CULVERT END



ELEVATION - TEMPORARY SHEET PILING AT EAST CULVERT END

(Looking West)

NOTE:

- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirement shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

LEGEND

- Porous Granular Material CA-7, 2'-0"
- Temporary Sheet Piling

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#18 US 41 @ Unnamed Cr\CADD_Sheets\049-2016\16\26-0492016-S04-TempSheetPiling.dgn



USER NAME =	DESIGNED - EBK, FL	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - HMI	REVISED -
PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SHEET PILING
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

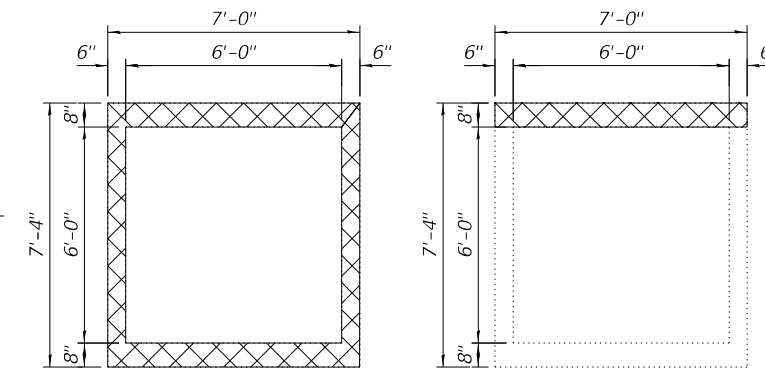
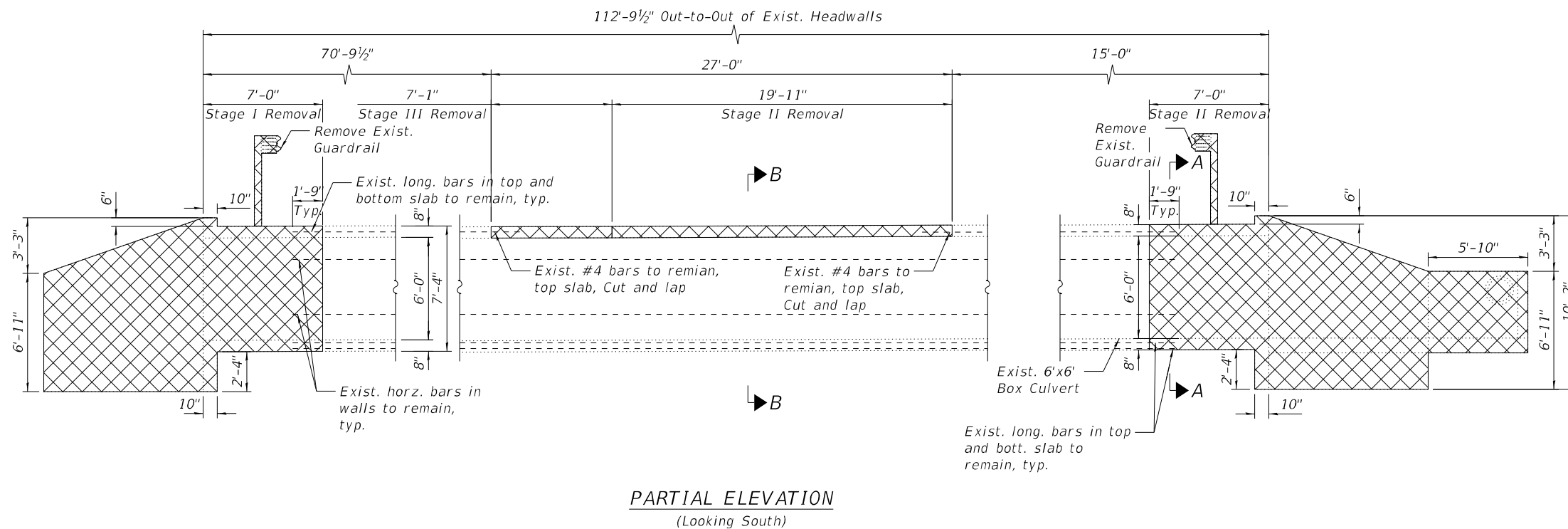
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	81
CONTRACT NO. 62J26				

SHEET S2-05 OF S2-14 SHEETS

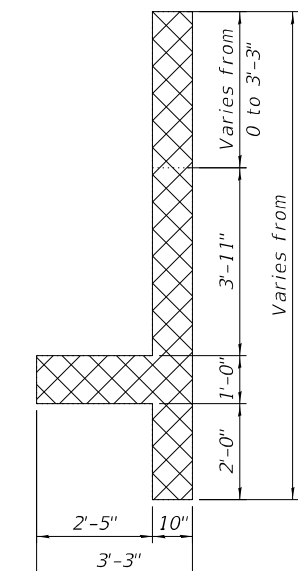
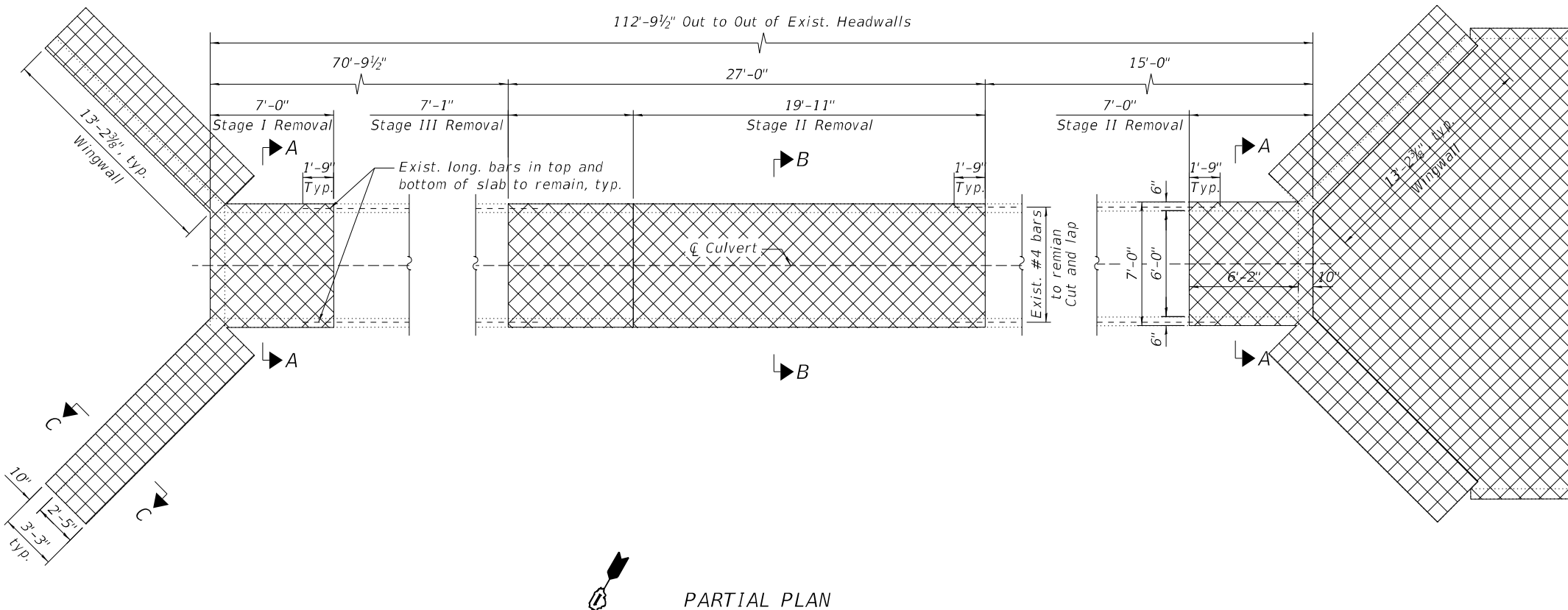
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	QUANTITIES
Concrete Removal	Cu. Yd.	45.30



SECTION A-A **SECTION B-B**



SECTION C-C

- NOTES:**
- For Temporary Sheet Piling, see Sheet S2-05.
 - Existing reinforcement shall be cleaned 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.

LEGEND:
 Concrete Removal

MODEL: Default
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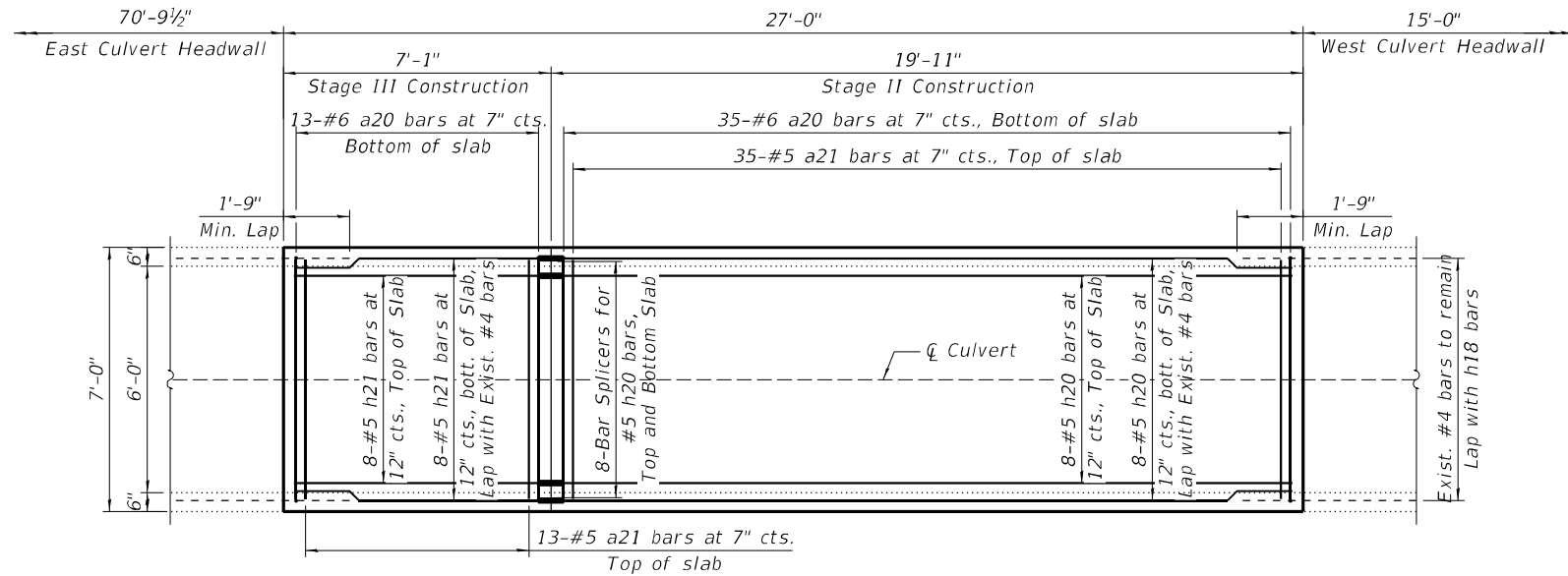
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PARTIAL REMOVAL
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

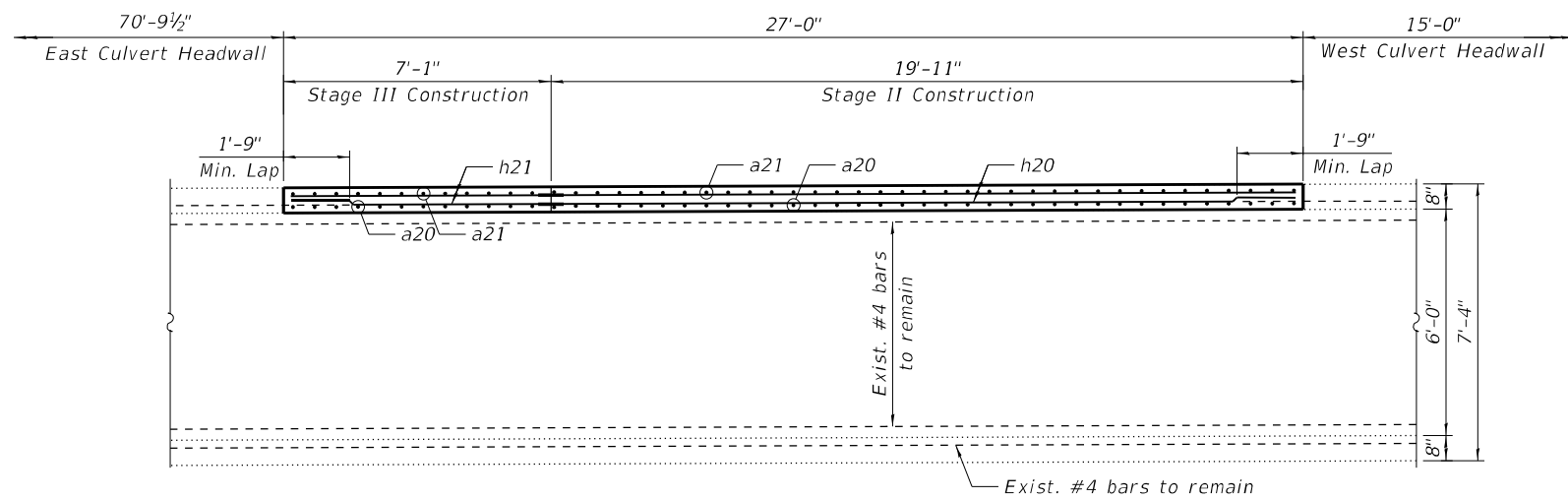
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	82
CONTRACT NO. 62J26				

SHEET S2-06 OF S2-14 SHEETS

ILLINOIS FED. AID PROJECT



TOP SLAB RECONSTRUCTION - PARTIAL PLAN



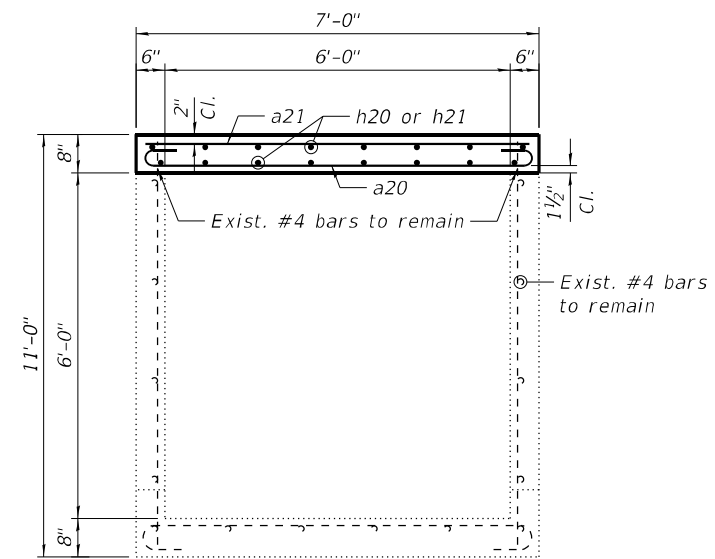
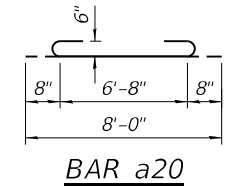
TOP SLAB RECONSTRUCTION - PARTIAL ELEVATION

NOTES:

- Existing reinforcement shall be cleaned 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.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a20	48	#6	8'-0"	
a21	48	#5	6'-8"	
h20	16	#5	19'-7"	
h21	16	#5	6'-9"	
Reinforcement Bars			Pound	1,350
Concrete Box Culverts			Cu Yd	4.70
Membrane Waterproofing System For Buried Structures			Sq Yd	27



SECTION A-A

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9/22/2021 8:44:20 AM



USER NAME =	DESIGNED - MAA, EBK	REVISED -
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PLOT DATE =	DRAWN - EBK	REVISED -
	DATE - 9/22/2021	REVISED -

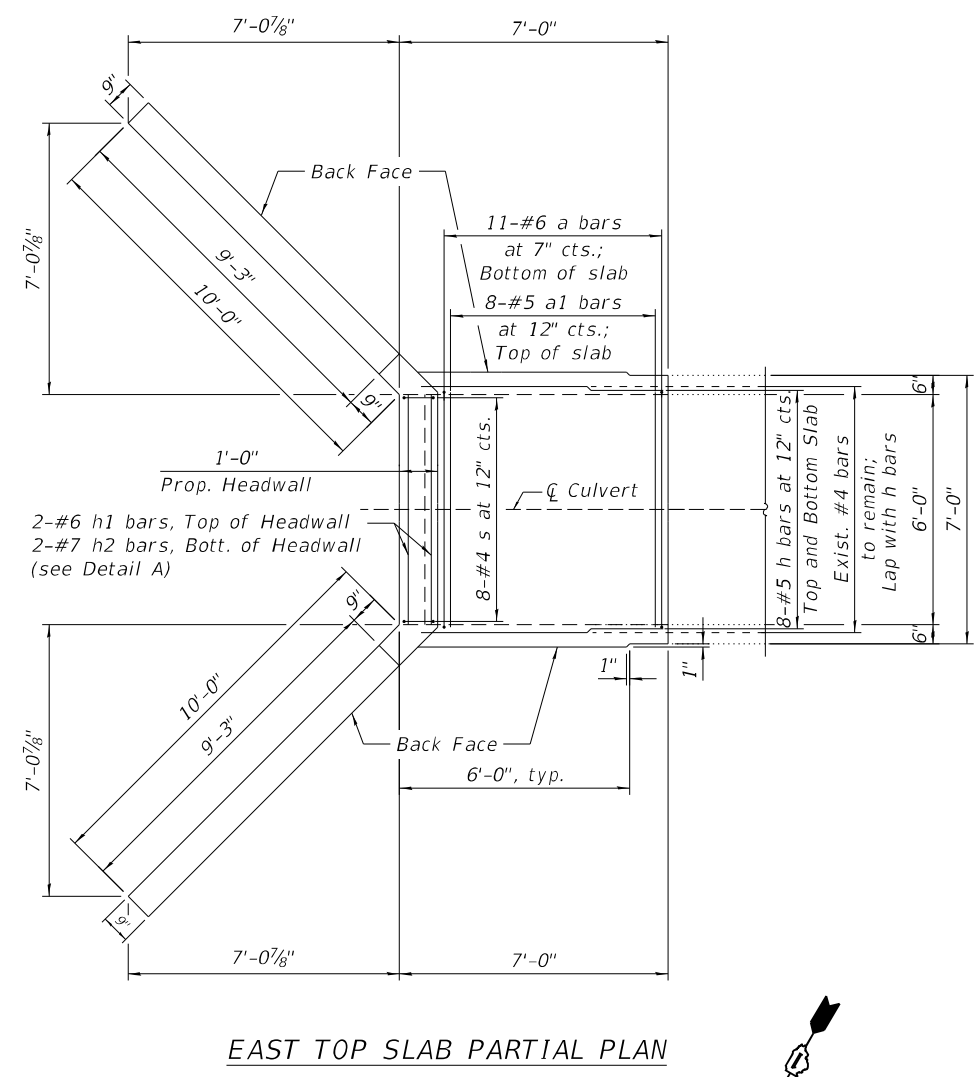
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP SLAB RECONSTRUCTION
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

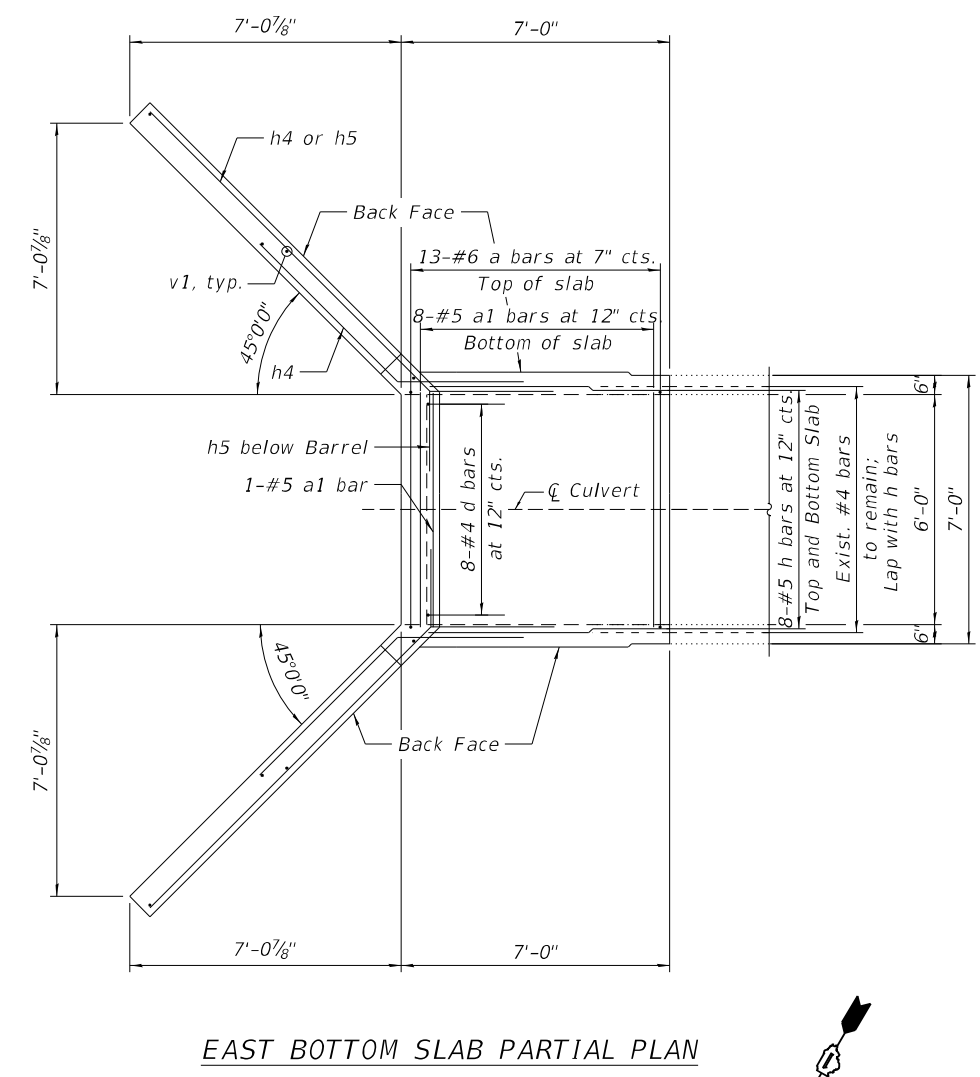
SHEET S2-07 OF S2-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	83
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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 9/22/2021 8:44:40 AM



EAST TOP SLAB PARTIAL PLAN



EAST BOTTOM SLAB PARTIAL PLAN

NOTES:

1. For Detail A, Sections and Bill of Material, see Sheet S2-08.
2. Existing reinforcement shall be cleaned 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.
3. All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
4. The culvert barrels shall be poured monolithically with the wingwalls.



USER NAME =	DESIGNED - EBK, FL	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MA	REVISED -
PLOT DATE =	DATE - 9/22/2021	REVISED -

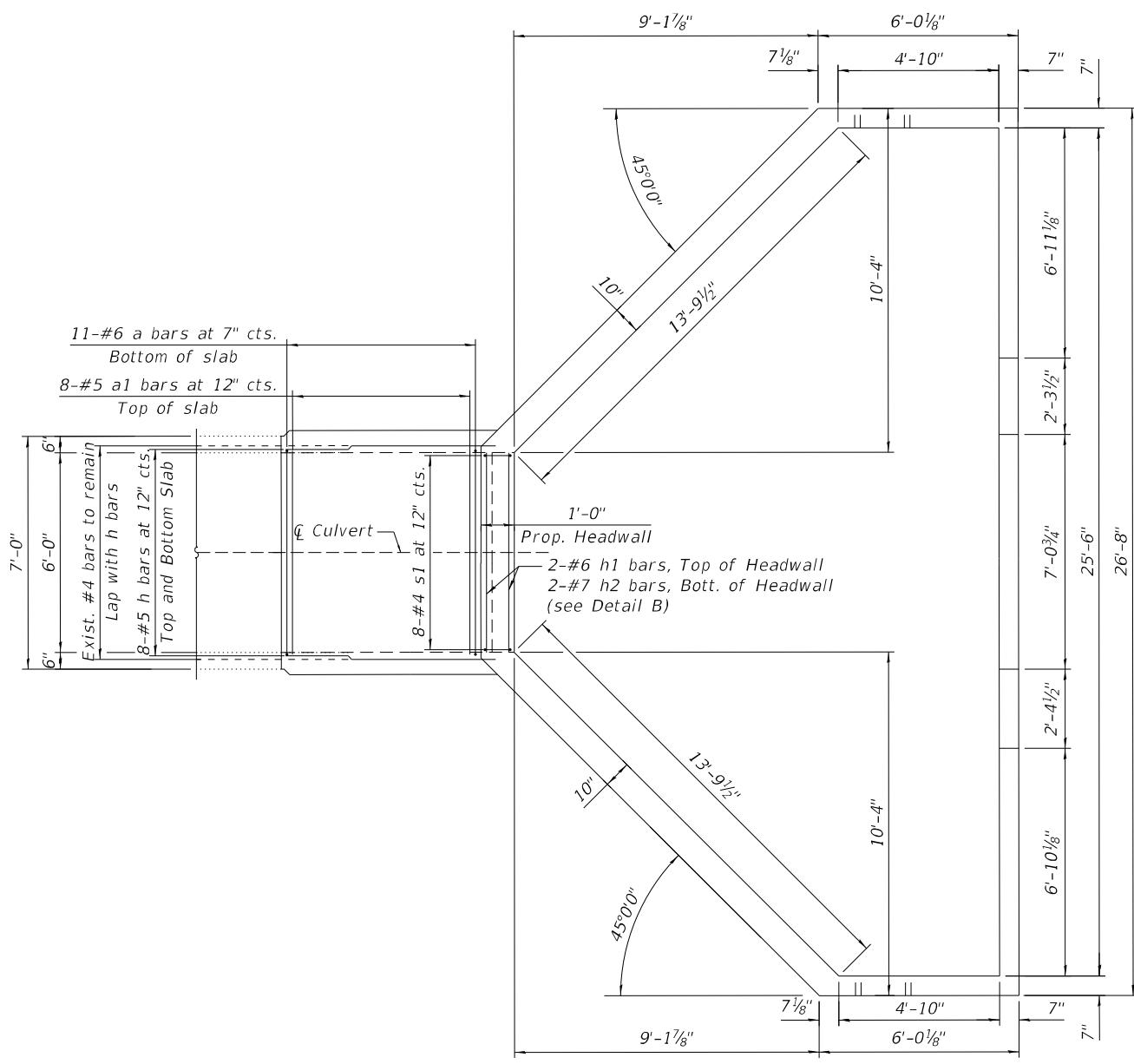
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT EAST END RECONSTRUCTION PLAN
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

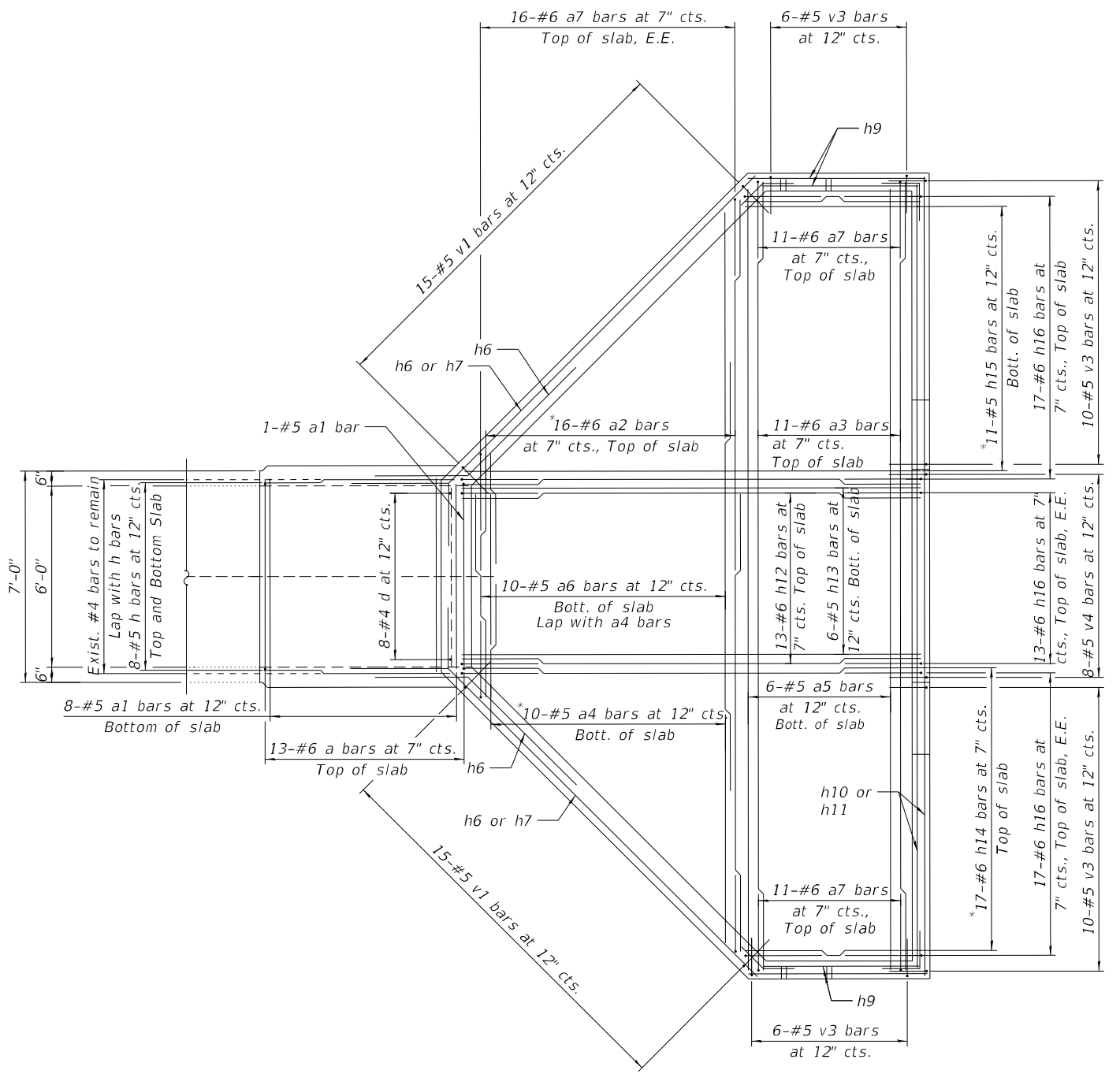
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346	2019-049-T	LAKE	139	84
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

SHEET S2-08 OF S2-14 SHEETS

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 9/22/2021 8:44:56 AM



WEST TOP SLAB PARTIAL PLAN



WEST BOTTOM SLAB PARTIAL PLAN



*order bars Full length cut as shown in cutting diagram on Sheet S2-11, use remainder of bar in opposite end

NOTE:

1. For Notes, Detail B, Sections and Bill of Material, see Sheet S2-11.

E.E. Each End



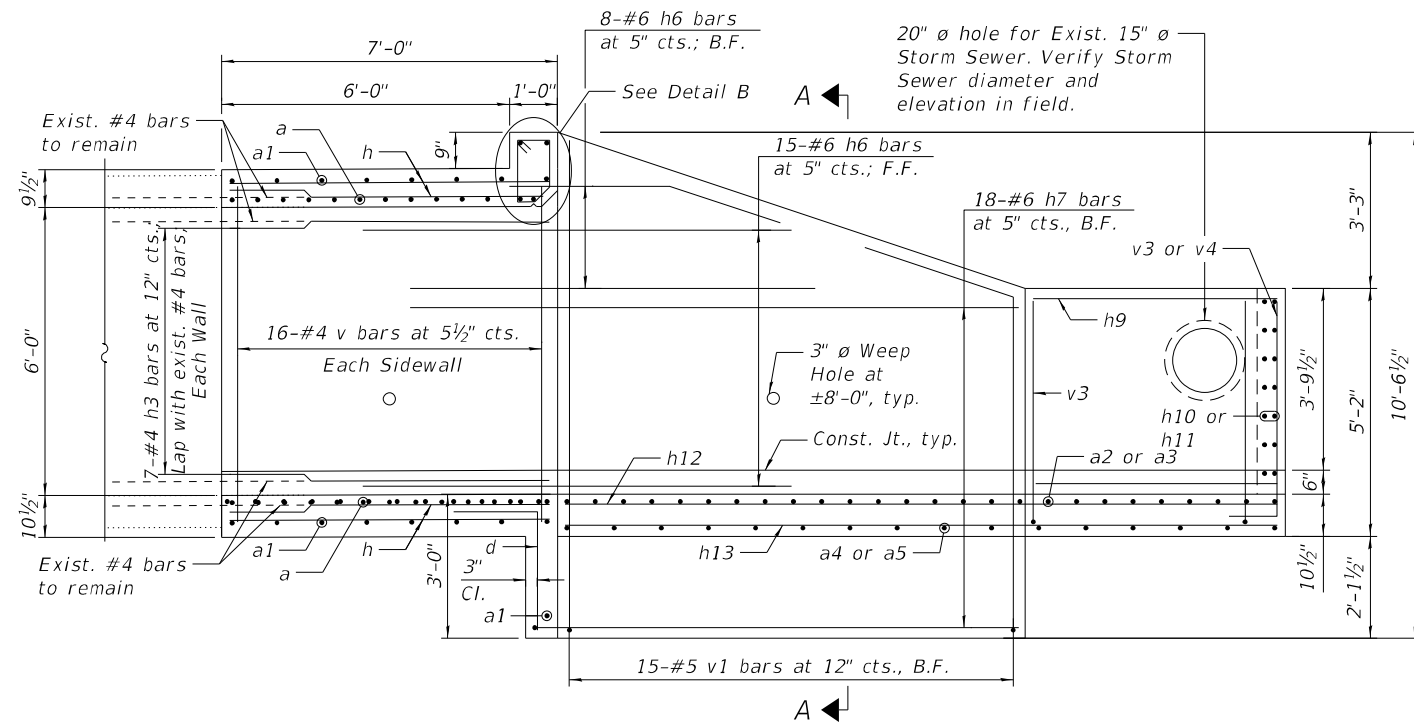
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	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

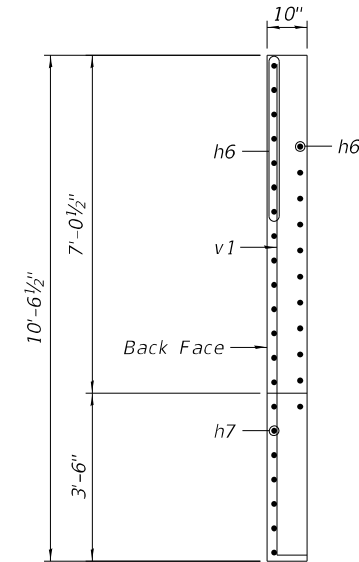
CULVERT WEST END RECONSTRUCTION PLAN
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

SHEET S2-09 OF S2-14 SHEETS



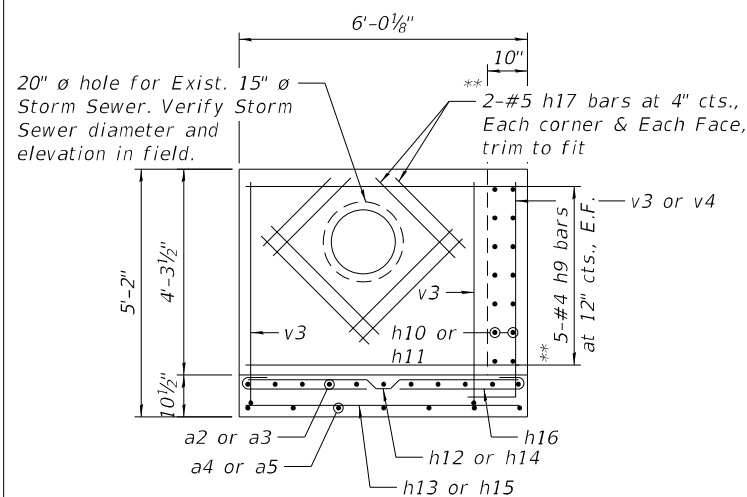
PARTIAL LONGITUDINAL SECTION - WEST END



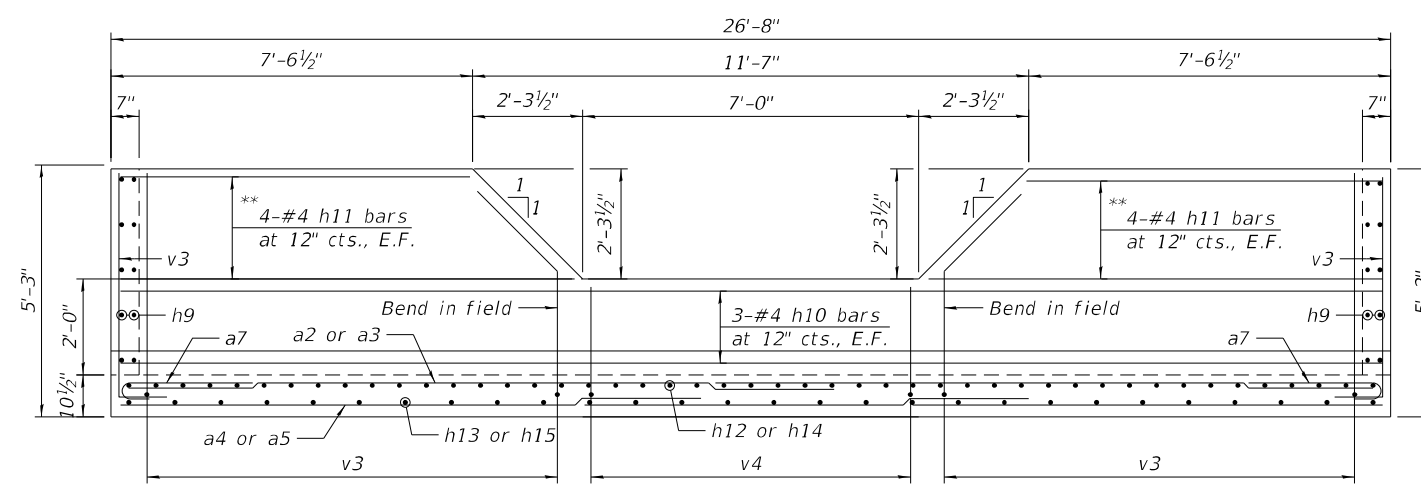
SECTION A-A

NOTES:

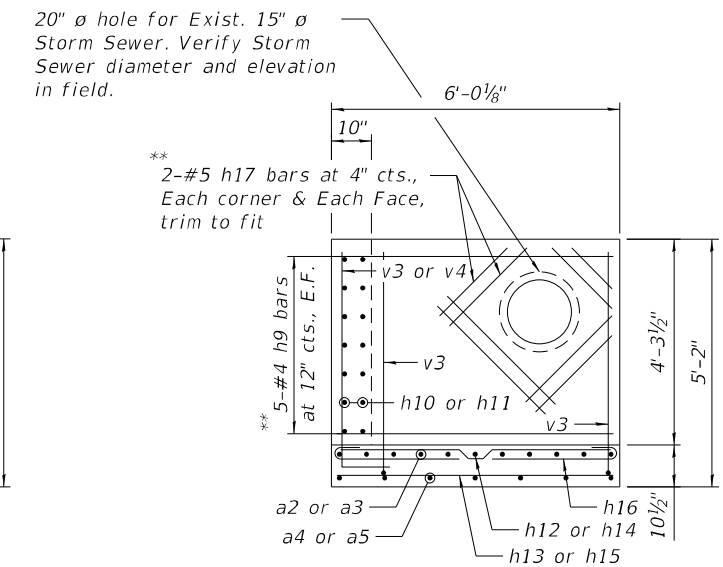
1. For Detail B, Sections and Bill of Material, see Sheet S2-11
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
4. The culvert barrels shall be poured monolithically with the wingwalls.



SOUTH WALL ELEVATION



WEST WALL ELEVATION



NORTH WALL ELEVATION

* Bend in field
 ** Cut and fit in field

MODEL: Default
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

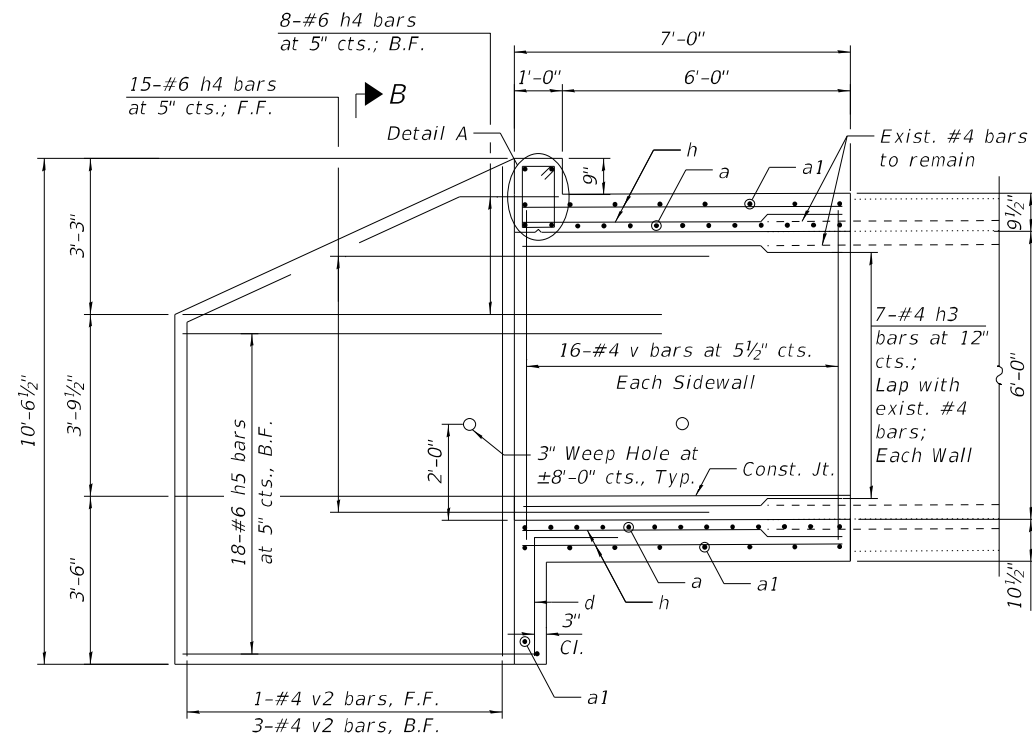
CULVERT WEST END SECTIONS AND DROPBOX DETAILS
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S2-10 OF S2-14 SHEETS

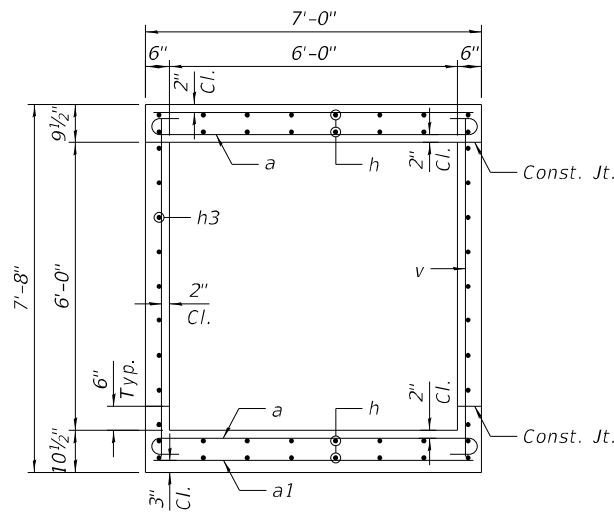
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	86
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

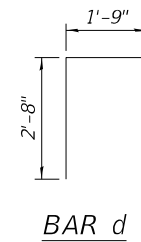
Bar	No.	Size	Length	Shape
a	48	#6	8'-0"	C
a1	34	#5	6'-8"	—
a2	16	#6	18'-8"	—
a3	11	#6	27'-8"	—
a4	10	#5	14'-8"	—
a5	6	#5	26'-4"	—
a6	10	#5	7'-0"	—
a7	54	#6	3'-3"	C
d	16	#4	4'-5"	└
h	64	#5	6'-8"	—
h1	4	#6	6'-8"	—
h2	4	#7	6'-8"	—
h3	28	#4	6'-8"	—
h4	46	#6	8'-0"	—
h5	36	#6	13'-0"	—
h6	46	#6	8'-0"	—
h7	36	#6	16'-9"	—
h9	20	#4	5'-8"	—
h10	6	#4	26'-4"	—
h11	16	#4	9'-5"	—
h12	13	#6	14'-10"	—
h13	6	#5	14'-10"	—
h14	17	#6	21'-9"	—
h15	11	#5	22'-9"	—
h16	47	#6	3'-3"	C
h17	32	#5	4'-0"	—
s	8	#4	4'-9"	└
s1	8	#4	4'-9"	└
v	64	#4	7'-4"	—
v1	30	#5	12'-3"	L
v2	8	#4	10'-2"	—
v3	32	#5	6'-9"	L
v4	8	#5	4'-7"	L
Concrete Structures		Cu Yd	19.5	
Reinforcement Bars		Pound	9,620	
Concrete Box Culverts		Cu Yd	16.20	
Membrane Waterproofing System For Buried Structures		Sq Yd	14.00	



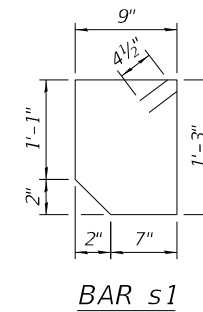
PARTIAL LONGITUDINAL SECTION - EAST END



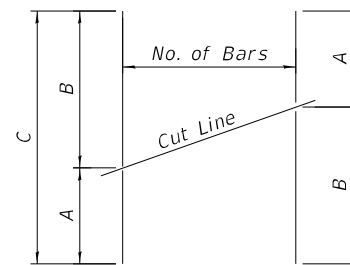
BARREL SECTION



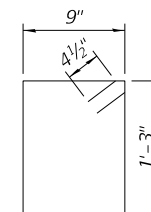
BAR d



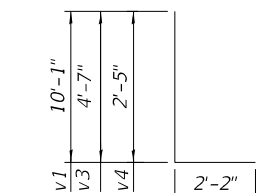
BAR s1



BAR CUTTING DIAGRAM



BAR s



BARS v1, v3 & v4

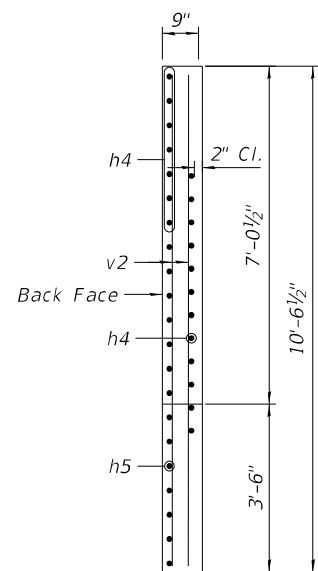
BAR TABLE SCHEDULE

Bar	No. of Bars	No. of Sets	A	B	C
a2	16	1	5'-2"	13'-9"	18'-11"
a4	10	1	2'-10"	11'-8"	14'-8"
h14	17	1	6'-0"	15'-9"	21'-9"
h15	11	1	7'-0"	15'-9"	22'-9"

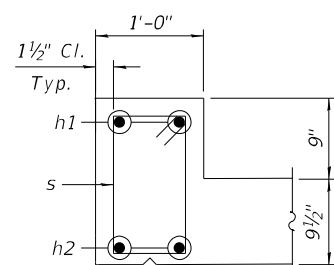
Order bars full length. Cut as shown and use remainder of bars in opposite end

NOTES:

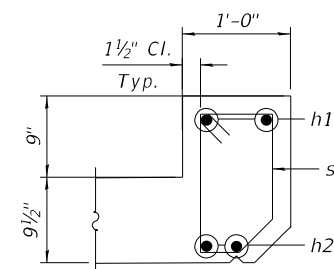
- Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
- The culvert barrels shall be poured monolithically with the wingwalls.



SECTION B-B



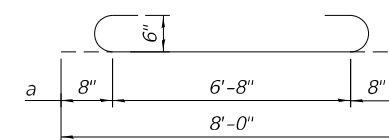
DETAIL A



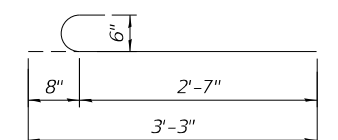
DETAIL B

MINIMUM BAR LAP

#4 1'-9"
#5 2'-2"



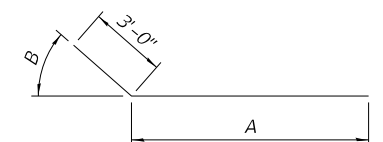
BAR a



BARS a7 AND h16

TABLE 1

Bar	A	B
h4	5'-0"	45°0'0"
h5	10'-0"	45°0'0"
h6	5'-0"	45°0'0"
h7	13'-9"	45°0'0"



BARS h4 THRU h7

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

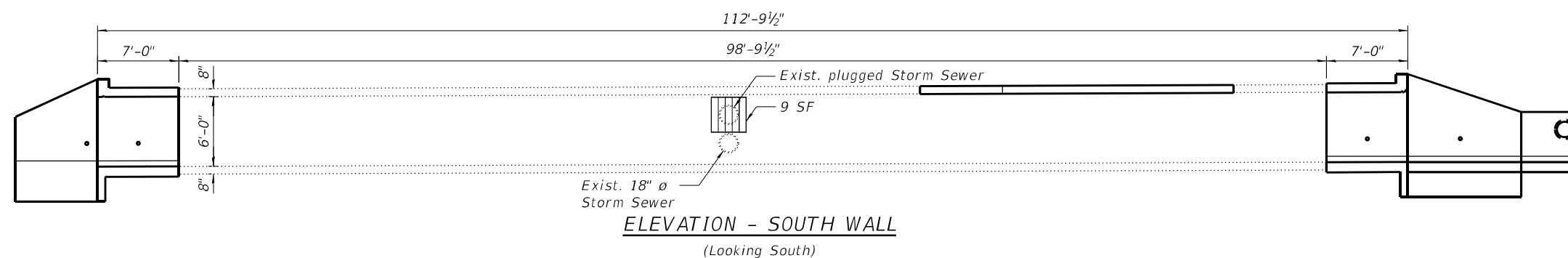
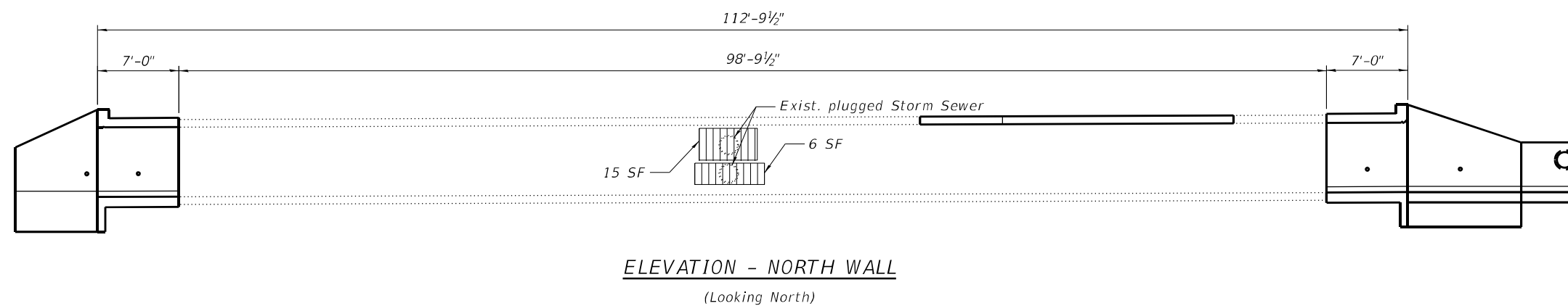
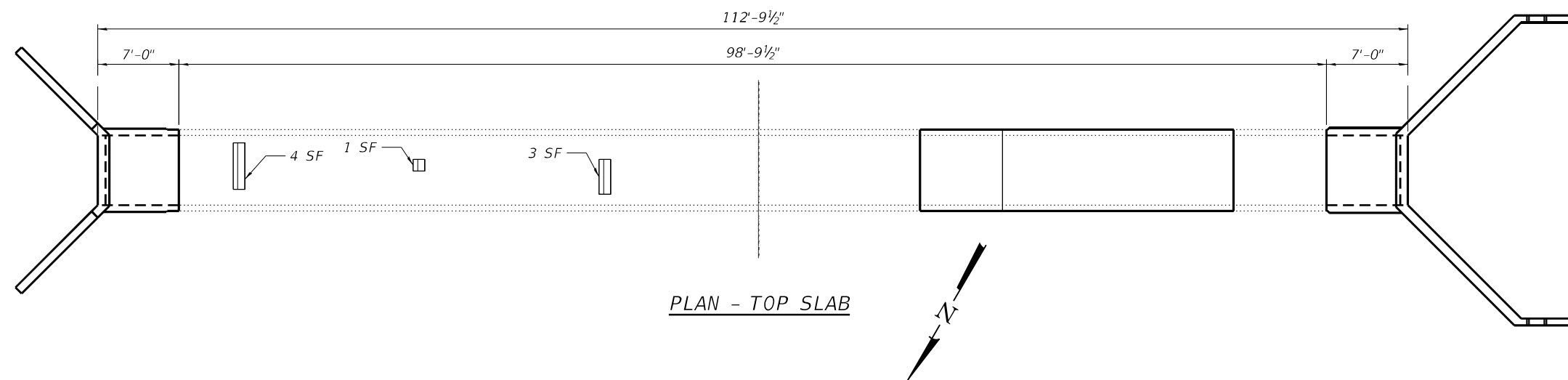
**CULVERT SECTIONS AND DETAILS
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S2-11 OF S2-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	87
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymer Modified Portland Cement Mortar	SQ FT	38



LEGEND

- Polymer Modified Portland Cement Mortar Repair
- SF Square Feet

MODEL: Default
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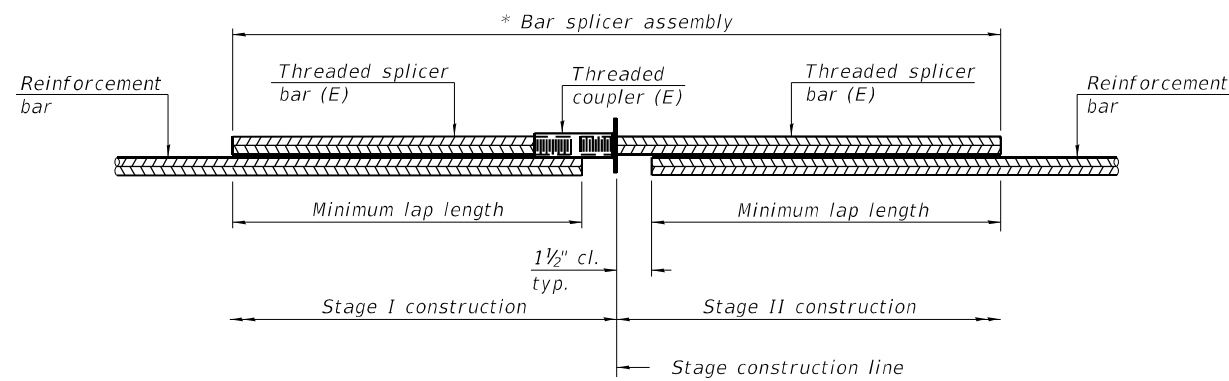
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PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CULVERT REPAIRS
S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 88
			CONTRACT NO. 62J26	
		ILLINOIS FED. AID PROJECT		

SHEET S2-12 OF S2-14 SHEETS

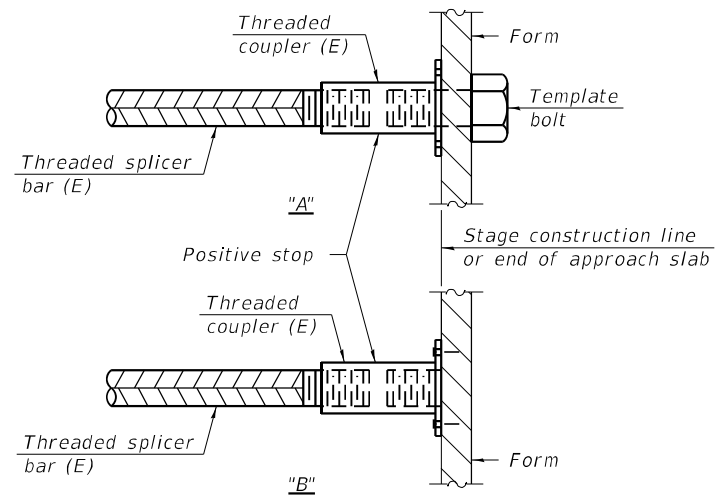


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

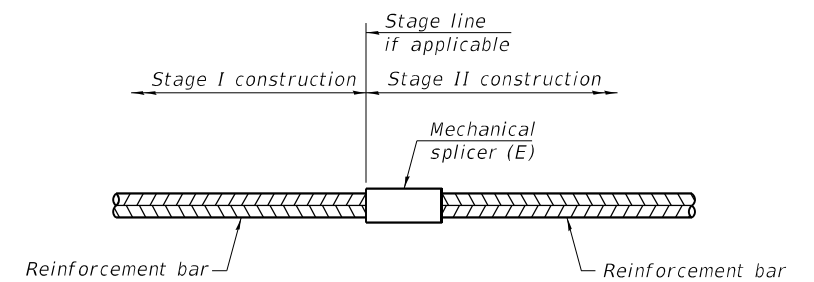
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab Reconstruction	#5	16	2'-2"



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

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BSD-1

1-1-2020



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PLOT DATE =	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	89
CONTRACT NO. 62J26				

SHEET S2-13 OF S2-14 SHEETS

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 3/12/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY PS/RM
 SECTION North of Illinois 173 to South of Westleigh LOCATION SN-049-2016, SEC., TWP., RNG.,
 COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev.	ft	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Description
SN 049-2016 379+99.95					N/A N/A						Very Stiff to Stiff Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML) (continued)
	667.66										
		2									
		5	3.0	12							
		6	P								
		2									
		1	0.8	18				2			
		2	P					3	1.0	20	
		-5						5	B		
		2									
		1	1.8	33							
		3	P								
	659.83										
Gray and Brown, Moist to Very Moist FILL: SILTY CLAY, trace sand and gravel		1						2			Sandy clay seam at 28.5 feet
		2	0.8	24				5	1.3	19	
		3	B					3	B		
		-10						-30			
		1									
		2	0.4	25							
		2	B								
	654.83										
Very Stiff Brown and Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML)		4						4			
		9	2.7	18				5	3.1	20	
		13	B					6	B		
		-15						-35			
	650.33										
Very Stiff to Stiff Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML)		3						4			
		5	2.5	23				4	1.0	18	
		5	B					4	B		
		-20						-40			

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 3/13/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY PS/RM
 SECTION North of Illinois 173 to South of Westleigh LOCATION SN-049-2016, SEC., TWP., RNG.,
 COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev.	ft	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Description
SN 049-2016 379+99.95					N/A N/A						Medium Stiff to Very Stiff Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML) (continued)
	667.92										
		3									
		5		1							
		4									
		2									
		4	1.3	22				2			
		4	B					5	1.9	20	
		-5						5	B		
		2									
		3	0.8	19							
		4	B								
	660.00										
Brown and Gray, Moist FILL: SILTY CLAY, trace sand, gravel and roots		3						3			Silt seam at 29 to 33.5 feet
		6	3.3	20				5	1.0	18	
		8	B					8	B		
		-10						-30			
		4									
		6	4.6	20							
		8	B								
	654.50										
Medium Stiff to Very Stiff Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML)		2						4			
		4	2.1	22				5	2.5	24	
		5	B					6	B		
		-15						-35			
		2									
		3	0.8	19							
		3	B								
		-20						-40			

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOG
 S.N. 049-2016 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK
 SHEET S2-14 OF S2-14 SHEETS

F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 90
CONTRACT NO. 62J26			ILLINOIS FED. AID PROJECT	

Bench Mark: Cutcross on top of barrier wall (Located approximately 230' South of SN 049-2015). Elevation 672.15.

Existing Structure: The structure at US 41 is located 0.5 miles north of IL Route 21 is a single cell reinforced concrete box culvert. The culvert is approximately 112'-11" in length (out-to-out headwalls). The cell height and width are approximately 6'-0". The structure spans east to west and carries two lanes of northbound and southbound traffic for a total of four traffic lanes. A metal guardrail is present on both sides of the culvert.

Salvage: No Salvage.
Precast Alternative is not allowed.

NOTE:

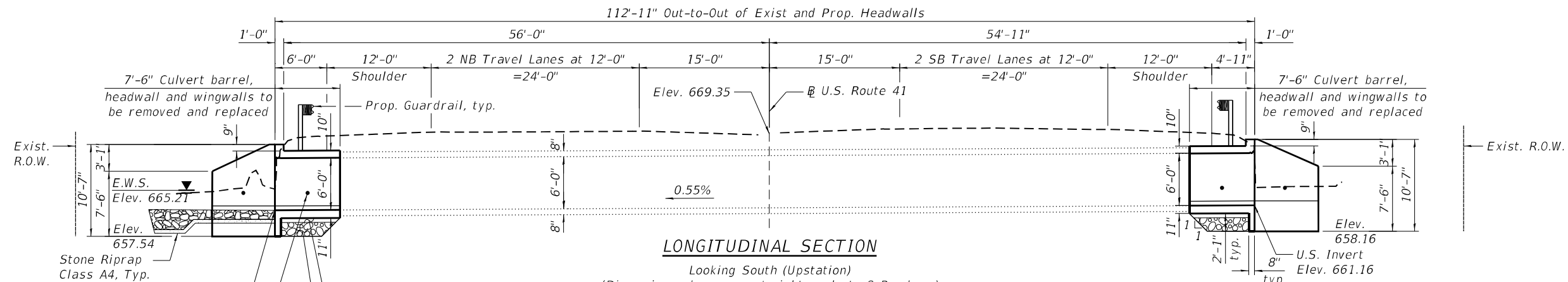
For General Notes, Scope of Work, Waterway Information Table, Index of Sheets and Bill of Material, see Sheet S3-02.

LOADING HS-20

Allow 50 #/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

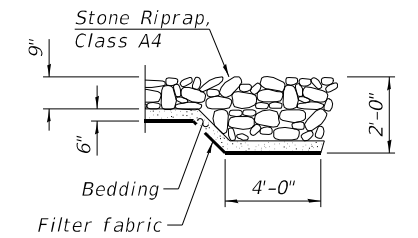
2017 AASHTO LRFD Design Specifications, 8th Edition



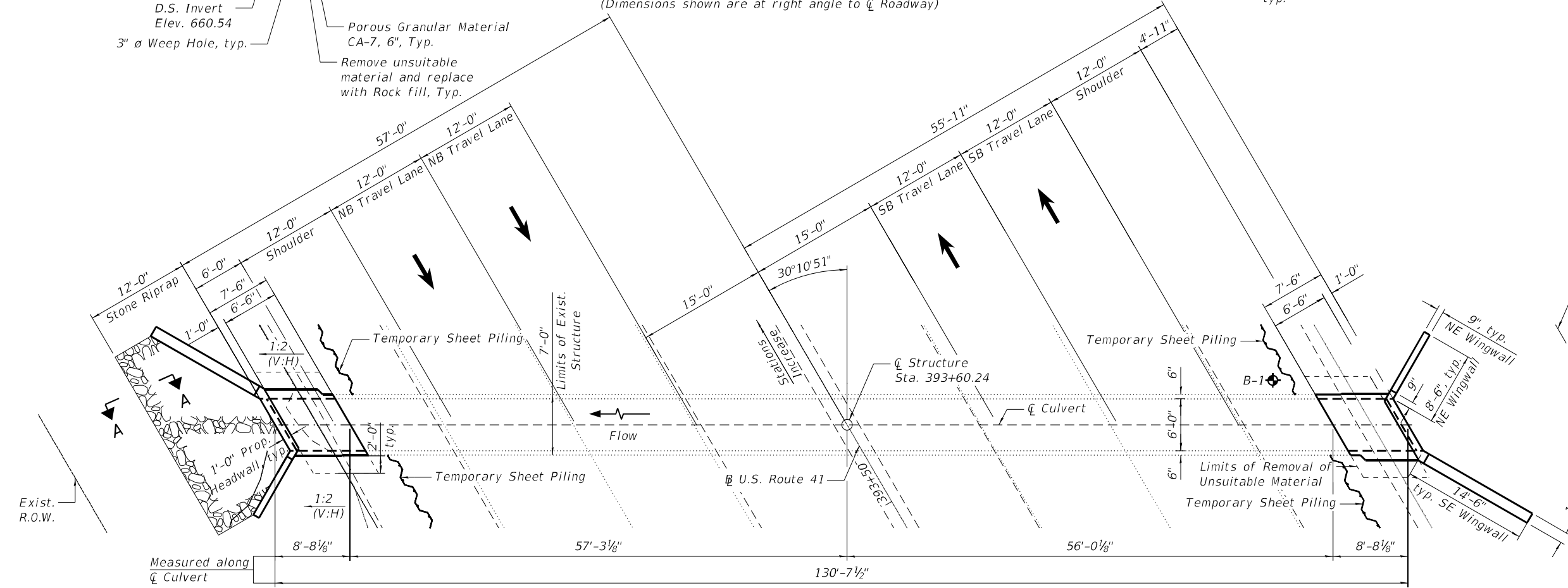
LONGITUDINAL SECTION

Looking South (Upstation)
(Dimensions shown are at right angle to ϕ Roadway)

Boring	Station	Offset
B-1	393+40	45.00' Rt.
B-2A	393+50	42.00' Lt.



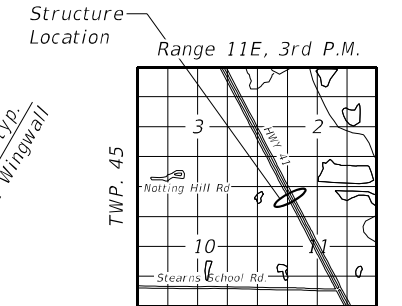
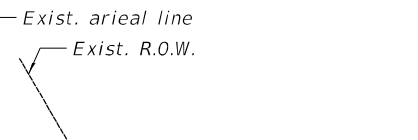
SECTION A-A



PLAN

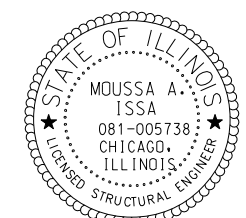
LEGEND

- Temporary Sheet Piling
- Prop. Guardrail
- Limits of Removal of Unsuitable Material
- Soil Boring



LOCATION SKETCH

GENERAL PLAN
U.S. 14 (SKOKIE HIGHWAY) OVER
SMALL CREEK
F.A.P. 346 SECTION 2019-049-T
LAKE COUNTY
STA. 393+60.24
STRUCTURE NO. 049-2015



Signed: *Moussa A. Issa*
 Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
 Expires 11-30-2022
 Date: 07/29/2021
 For Sheets S3-01 thru S3-11
 (Total of 11 Sheets)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S3-01 OF S3-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	91
CONTRACT NO. 62J26				

ILLINOIS FED. AID PROJECT

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	CHECKED - MI, MAI	REVISIONS -
PLOT SCALE =	DRAWN - JMI	REVISIONS -
PLOT DATE =	DATE - 9/22/2021	REVISIONS -

GENERAL NOTES

1. 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.
2. It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
3. The presented elevations and limits of the existing structure have been taken from historical design drawings and Survey data. Dimensions may not present "as-built" condition. All existing structure limits shall be field verified by the contractor and coordinated with the engineer prior to ordering materials, fabrication and construction of the proposed culvert extension.
4. 2-Year Flow (Q) = 36.0 cfs

INDEX OF SHEETS

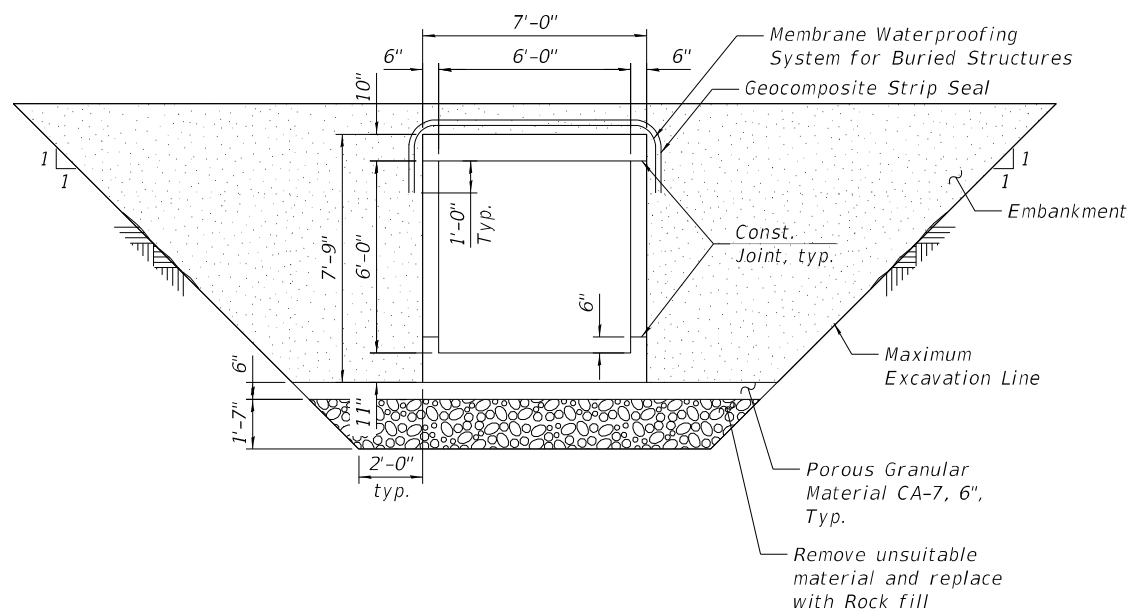
- S3-01 General Plan
- S3-02 General Notes, Index of Sheets & Total Bill of Material
- S3-03 Stage Removal and Construction
- S3-04 Temporary Sheet Piling
- S3-05 Existing Structure Partial Removal
- S3-06 Culvert East End Reconstruction Plan
- S3-07 Culvert West End Reconstruction Plan
- S3-08 Culvert Sections and Details
- S3-09 Culvert Repairs
- S3-10 Boring Logs I
- S3-11 Boring Logs II

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal And Disposal Of Unsuitable Material	Cu Yd	12.0
Stone Riprap, Class A4	Sq Yd	25
Filter Fabric	Sq Yd	25
Concrete Removal	Cu Yd	31.0
Reinforcement Bars	Pound	5000
Name Plates	Each	1.0
Temporary Sheet Piling	Sq Ft	1023
Concrete Box Culverts	Cu Yd	30.4
Polymer Modified Portland Cement Mortar	Sq Ft	94
Membrane Waterproofing System For Buried Structures	Sq Yd	15
Box Culverts To Be Cleaned	Foot	113
Rock Fill	Cu Yd	12.0

SCOPE OF WORK

1. Remove and reconstruct the 7'-6" of the east and west portions of culvert barrel.
2. Remove and reconstruct the west and east culvert headwalls and wingwalls.
3. Remove and reerect new steel beam guardrails and guardrail posts on the east and west sides of the roadway.
4. Remove and reconstruct the portions of the shoulder on the east and west sides of the roadway.



SECTION THRU BARREL

STATION 393+60.24
 RE-BUILT 202* BY
 STATE OF ILLINOIS
 F.A.P. 346 SECTION 2019-049-T
 LOADING HL-93
 STRUCTURE NO. 049-2015

NAME PLATE
 See Std. 515001

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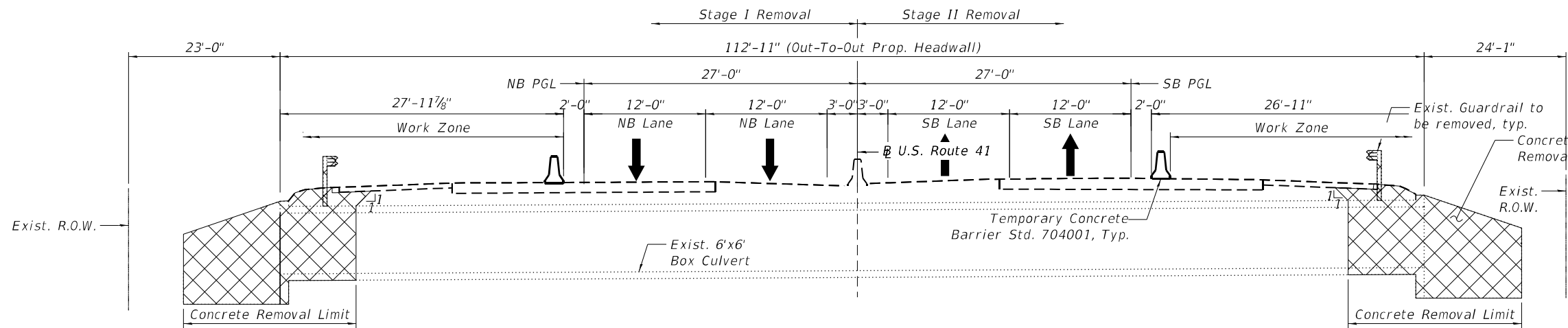
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PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

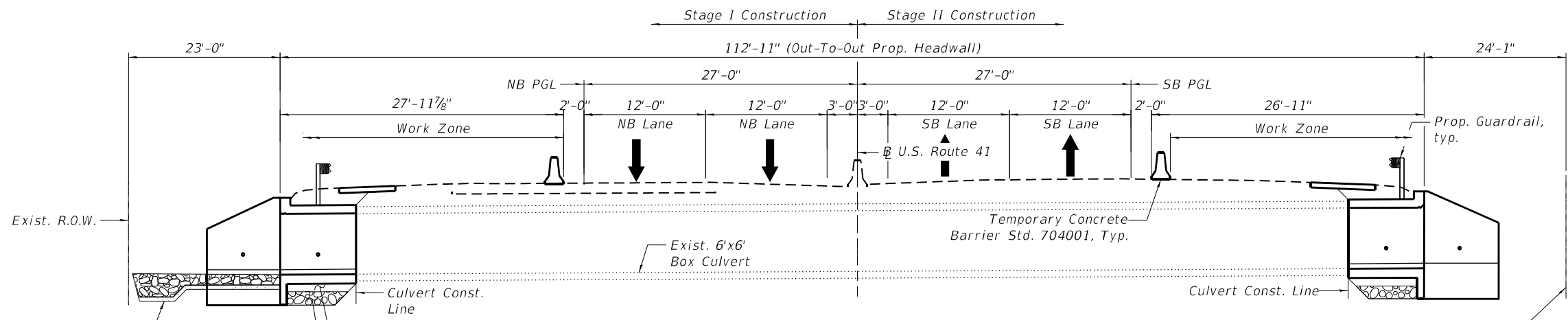
**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
 S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S3-02 OF S3-11 SHEETS

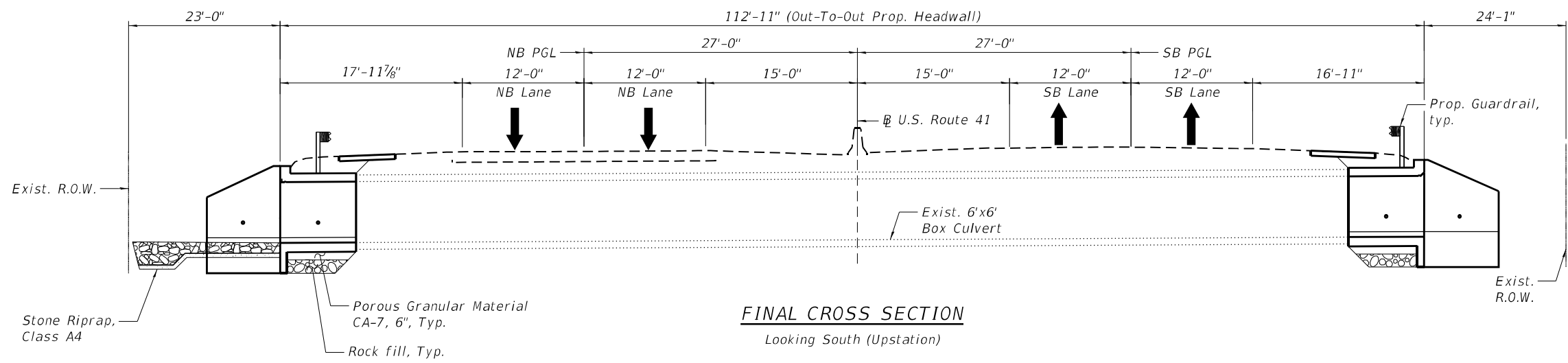
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	92
CONTRACT NO. 62J26				
		ILLINOIS	FED. AID PROJECT	



REMOVAL
Looking South (Upstation)



CONSTRUCTION
Looking South (Upstation)



FINAL CROSS SECTION
Looking South (Upstation)

REMOVAL:

1. Install temporary Concrete barrier as shown to locate Construction work areas on the east and west sides of the existing structures.
2. Install Temporary Sheet Piling as shown on Sheet S3-04.
3. Clean the inside of existing box culvert.
4. Remove portions of the existing shoulders on the east and west sides of the roadway.
5. Remove the steel plate beam guardrail and guardrail posts at the east and west sides of the road.
6. Remove the 7'-6" portion of the east and west culvert barrels, and remove the east and west headwalls and wingwalls.

CONSTRUCTION:

1. Clean the inside of the existing box culvert.
2. Reconstruct the 7'-6" portion of the east and west culvert barrels and reconstruct the east and west headwalls and wingwalls.
3. Install Stone Riprap at east end of culvert.
4. Install the guardrail at the east and west side of the road.
5. Reconstruct the shoulders on the east and west sides of the roadway.

LEGEND:



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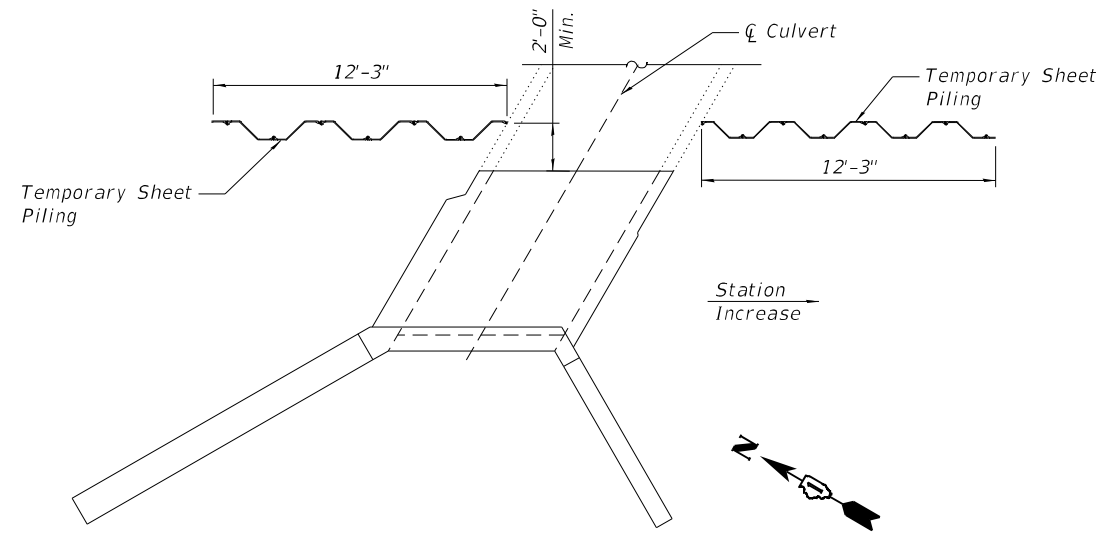
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

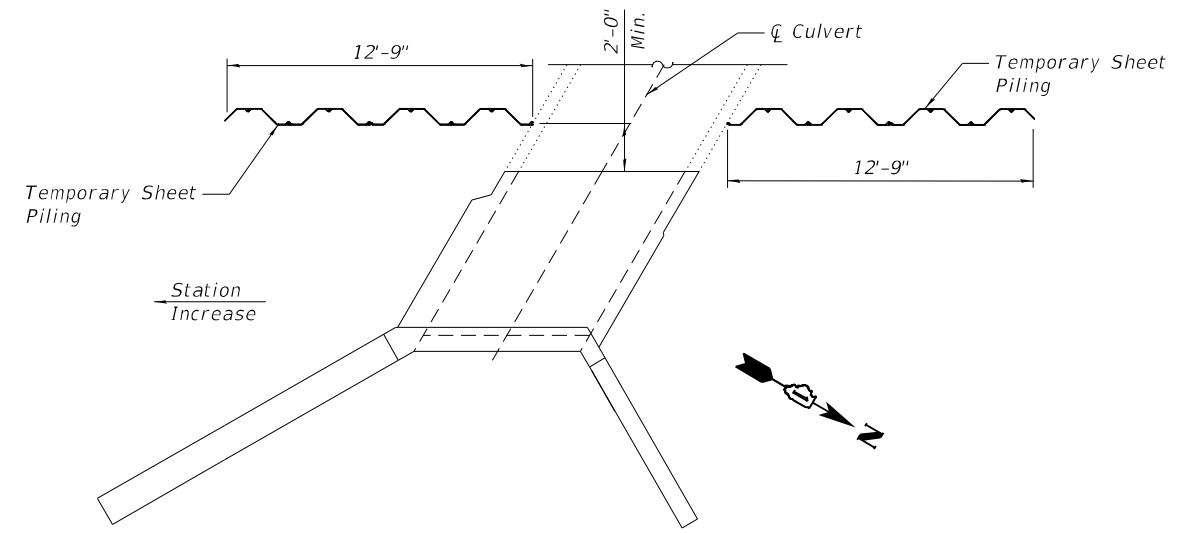
**STAGE REMOVAL AND CONSTRUCTION
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S3-03 OF S3-11 SHEETS

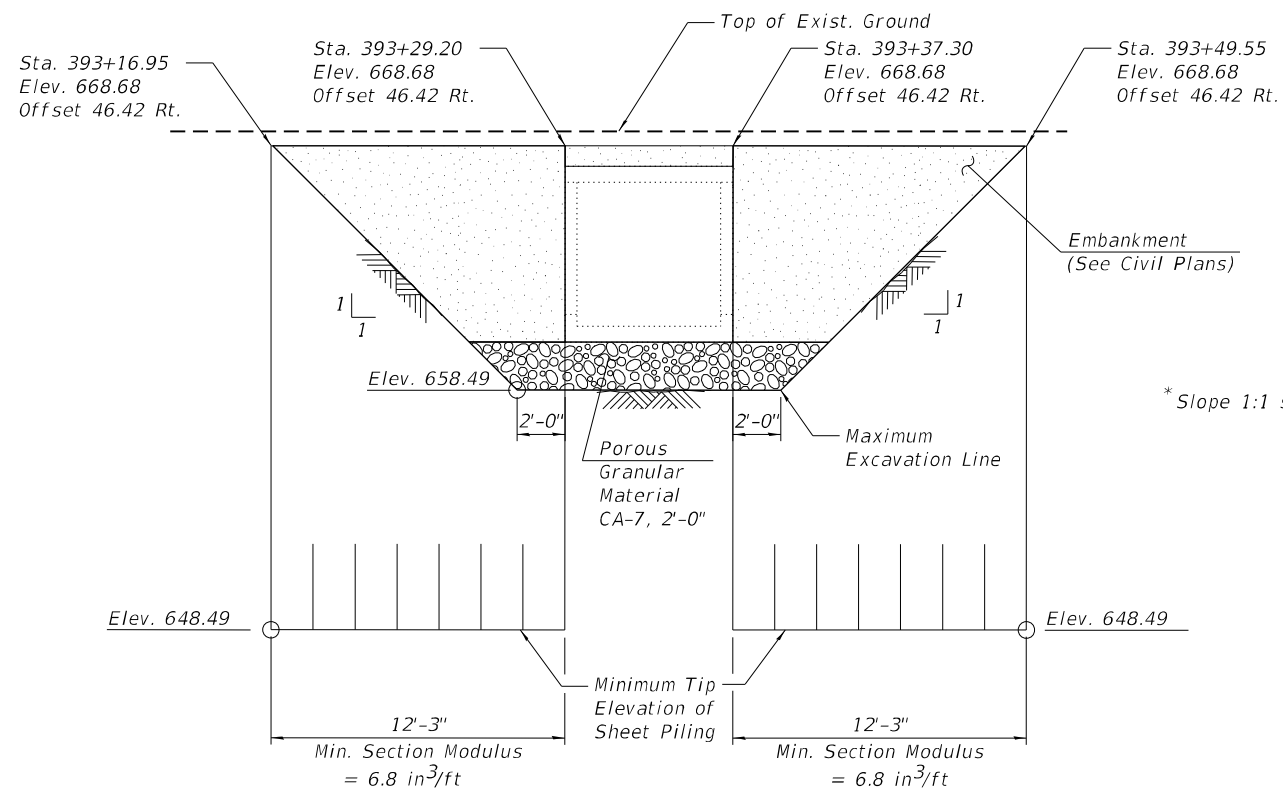
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CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



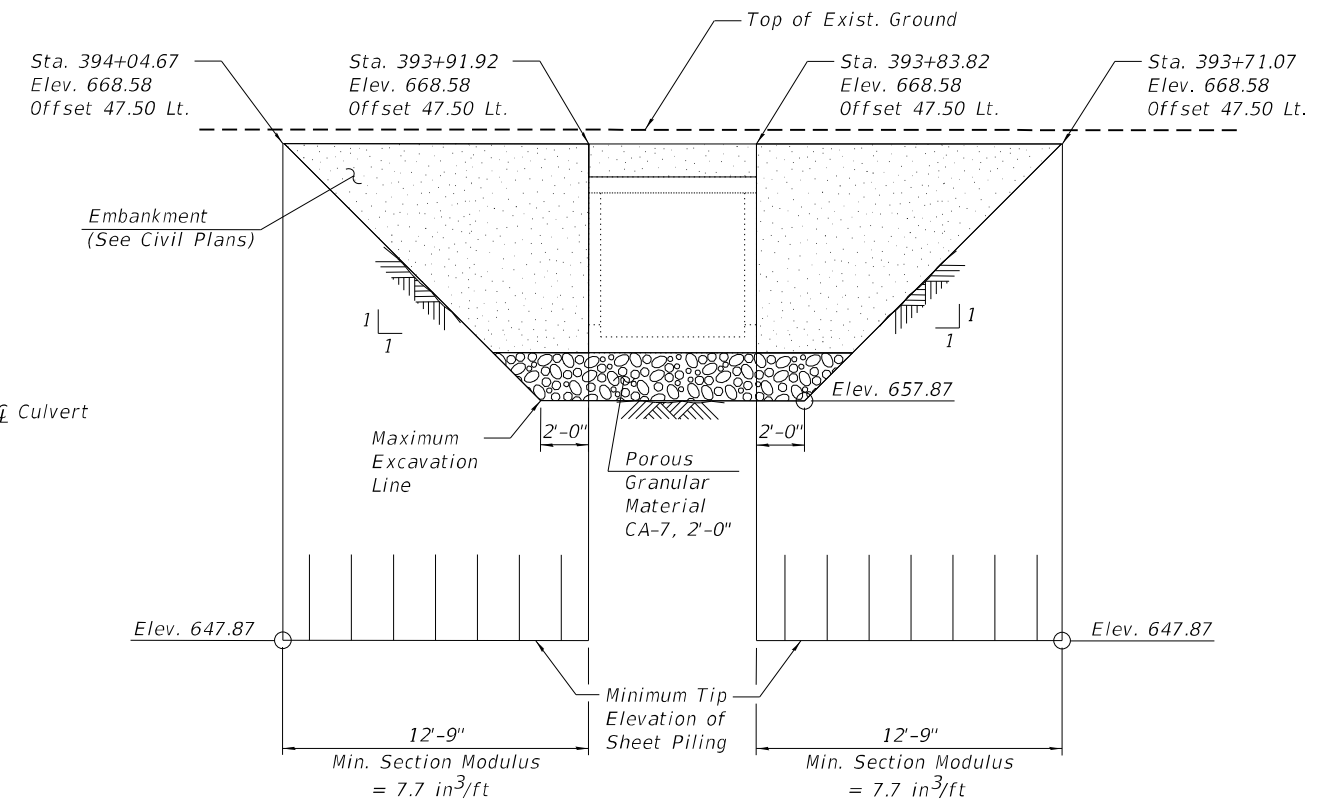
PARTIAL PLAN AT WEST CULVERT END



PARTIAL PLAN AT EAST CULVERT END



ELEVATION-TEMPORARY SHEET PILING AT WEST CULVERT END
(Looking East)



ELEVATION-TEMPORARY SHEET PILING AT EAST CULVERT END
(Looking West)

* Slope 1:1 shown is \perp to ϕ Culvert

LEGEND:

- Porous Granular Material CA-7, 2'-0"
- Temporary Sheet Piling

NOTE:

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirement shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Sheet Piling	Sq. Ft.	1,023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

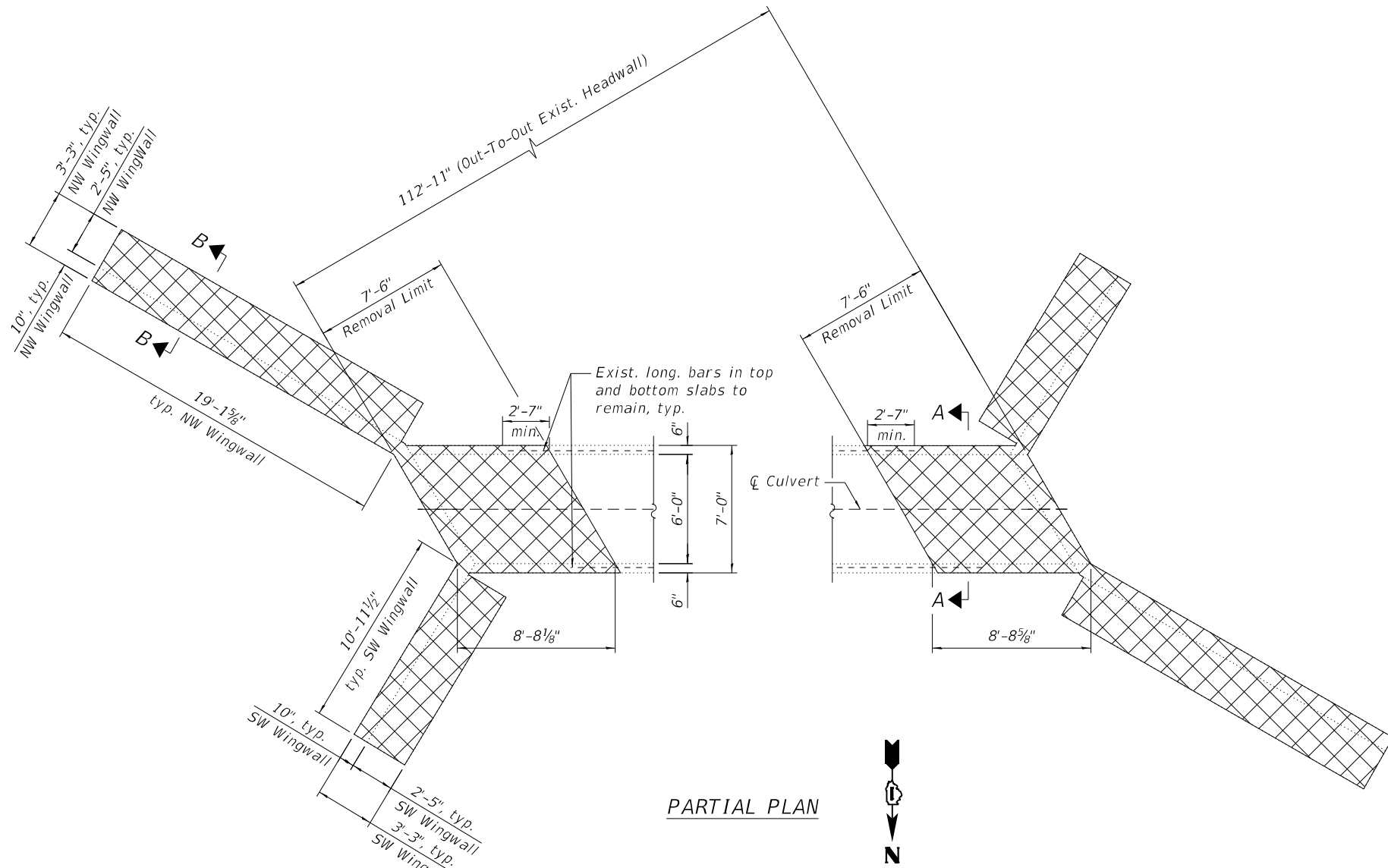
TEMPORARY SHEET PILING
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S3-04 OF S3-11 SHEETS

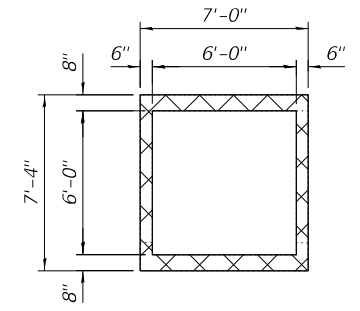
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CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

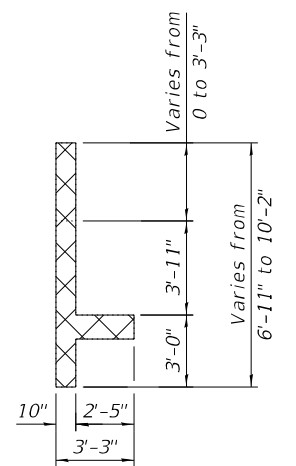
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Concrete Removal	Cu. Yd.	31.0



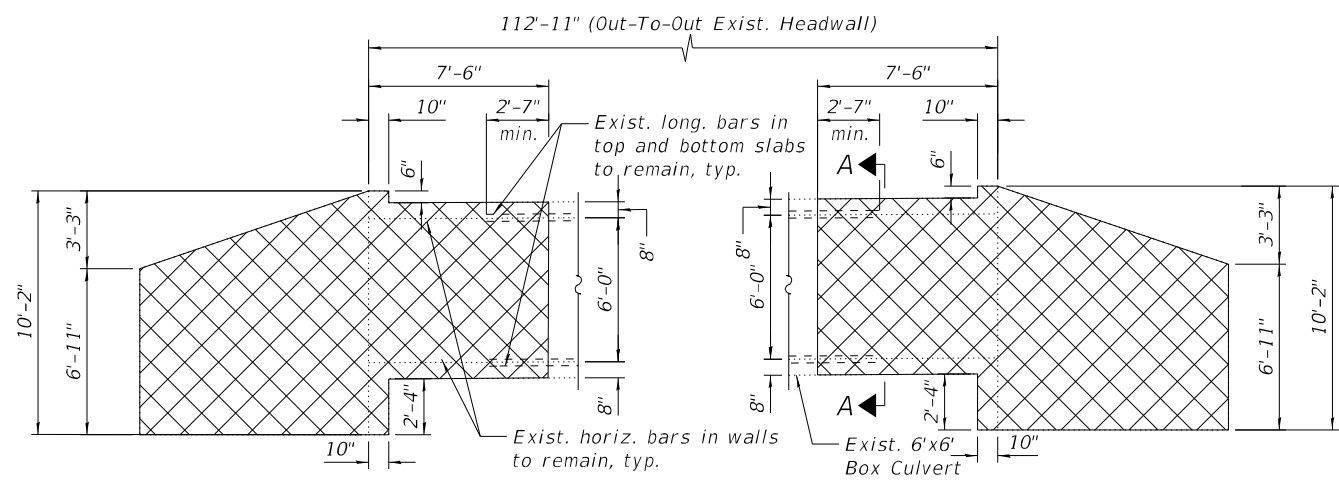
PARTIAL PLAN



SECTION A-A



SECTION B-B



PARTIAL ELEVATION
(Looking Upstation)

NOTES:

1. Dimension shown have been take from historical design drawings, field measurements, 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.
2. For Temporary Sheet Piling, see Sheet S3-04.
3. Existing reinforcement shall be cleaned 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.

LEGEND:



MODEL: Default
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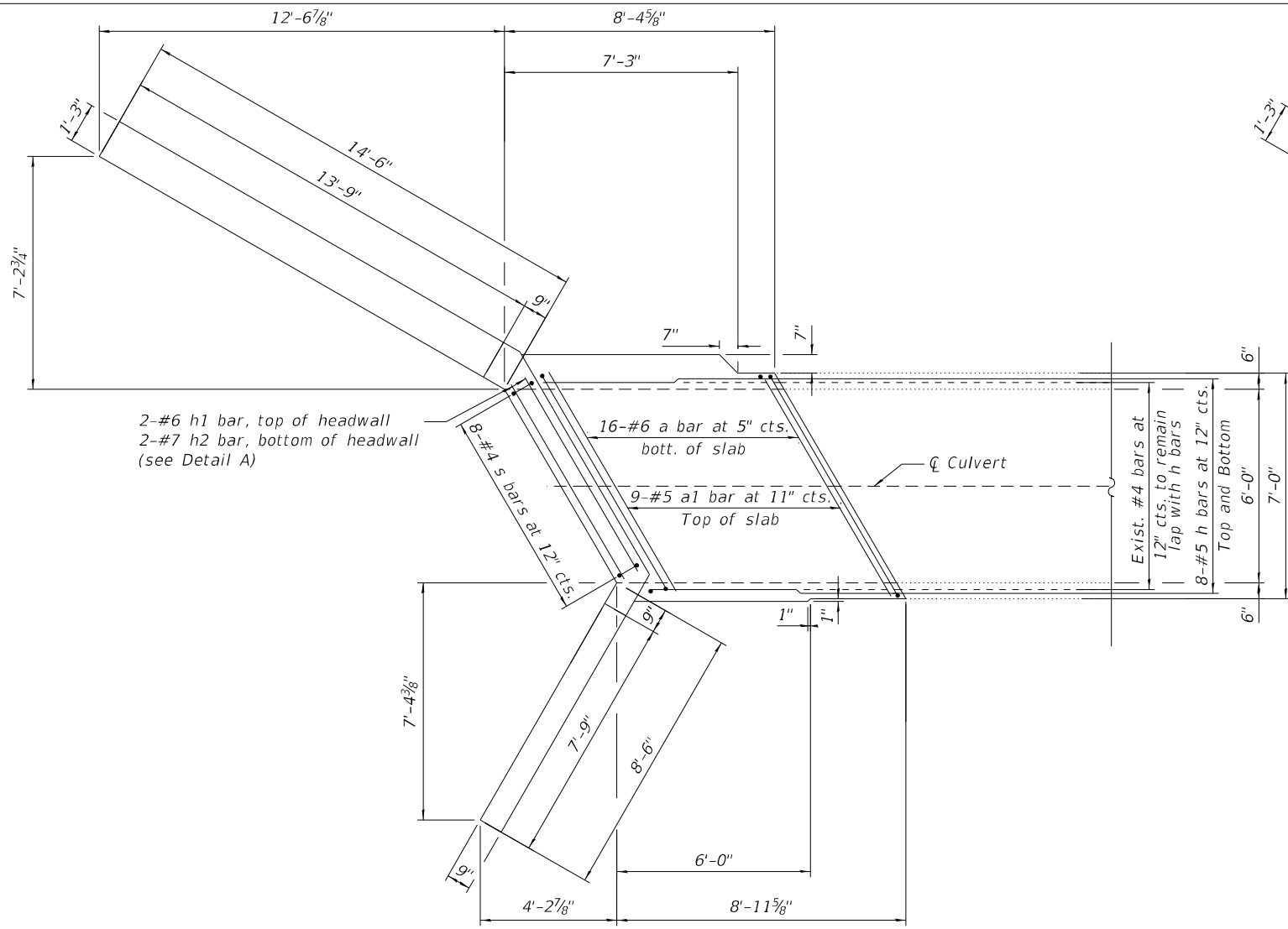
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT PARTIAL REMOVAL
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

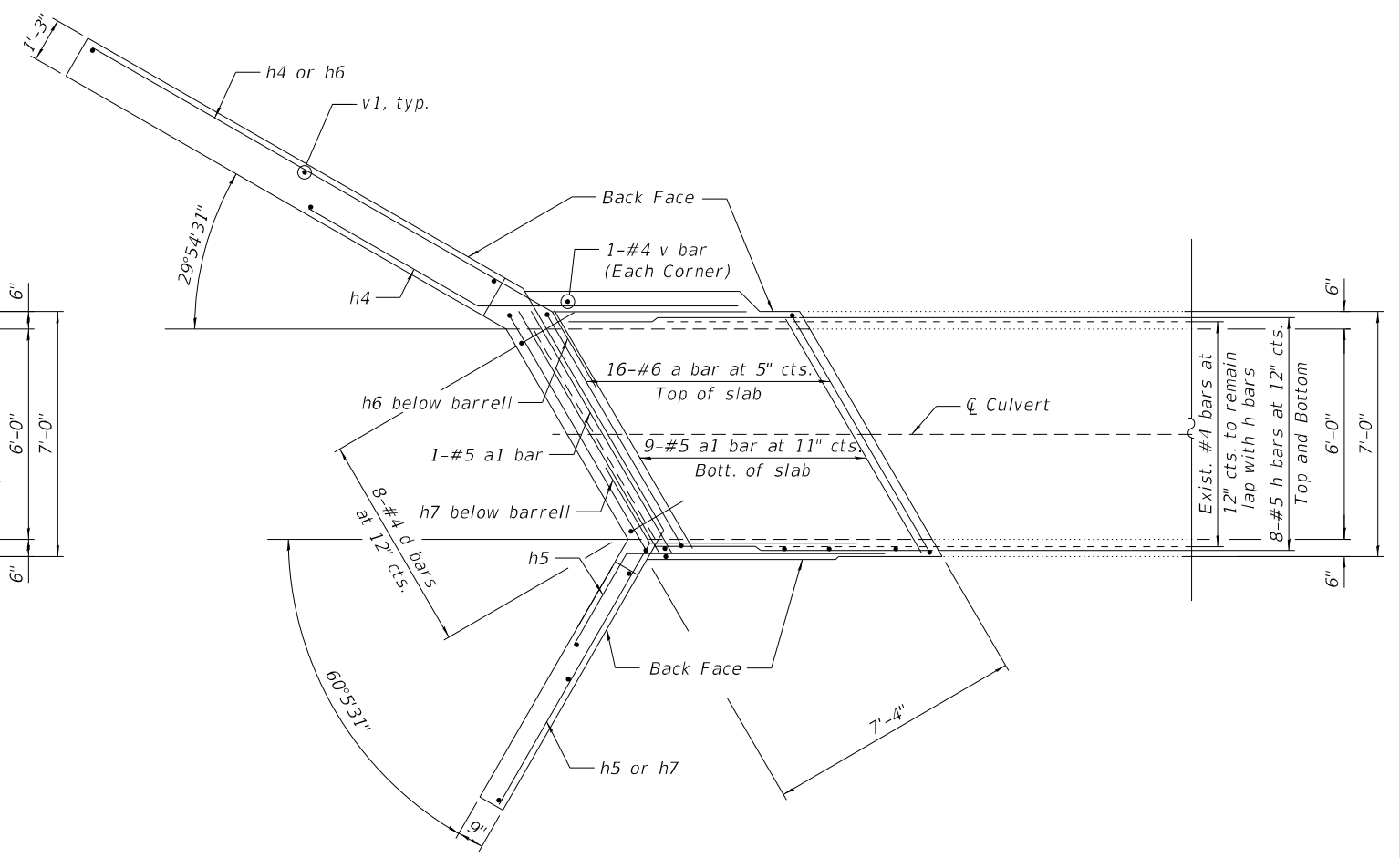
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	95
CONTRACT NO. 62J26				

SHEET S3-05 OF S3-11 SHEETS

ILLINOIS FED. AID PROJECT



EAST TOP SLAB PARTIAL PLAN



EAST BOTTOM SLAB PARTIAL PLAN



NOTES:

1. For Detail A, Sections, bar diagrams and bill of material, see Sheet S3-08.
2. Existing reinforcement shall be cleaned 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.
3. All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
4. The culvert barrels shall be poured monolithically with the wingwalls.

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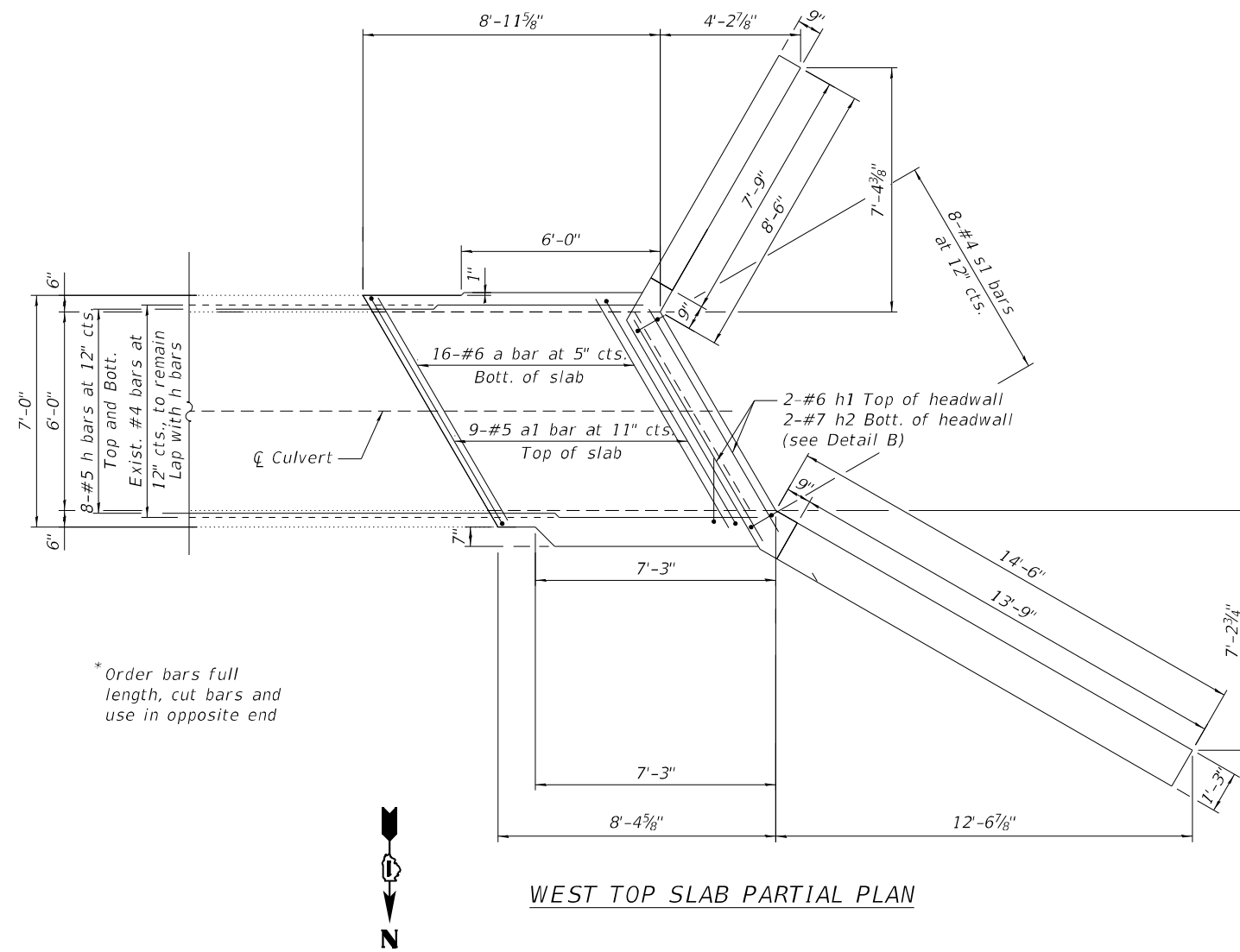
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT EAST END RECONSTRUCTION PLAN
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

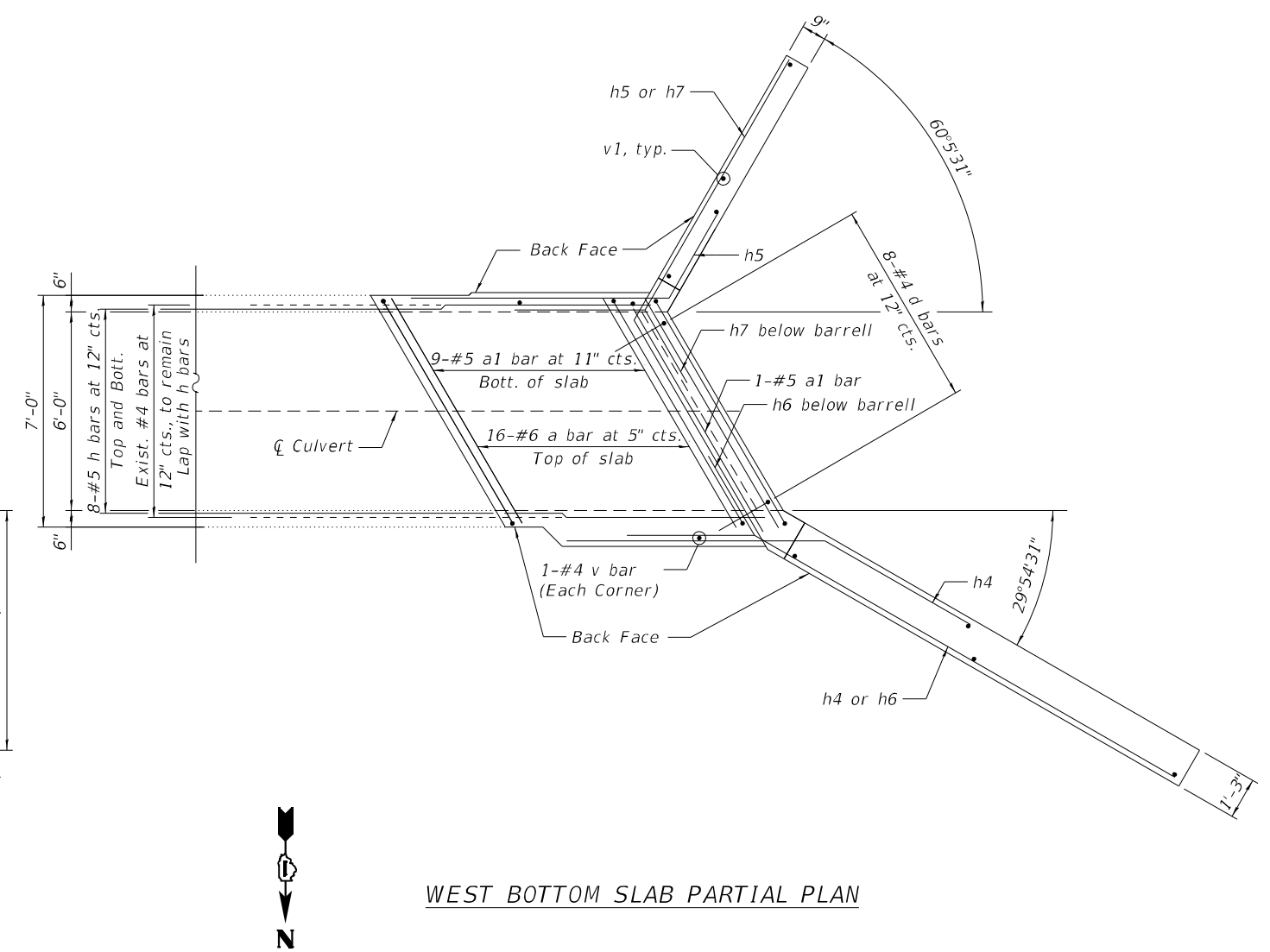
SHEET S3-06 OF S3-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62J26				
		ILLINOIS	FED. AID PROJECT	

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 9/22/2021 8:50:17 AM



WEST TOP SLAB PARTIAL PLAN



WEST BOTTOM SLAB PARTIAL PLAN

* Order bars full length, cut bars and use in opposite end

NOTES:

1. For Detail B, Sections, bar diagrams and bill of material, see Sheet S3-08.
2. Existing reinforcement shall be cleaned 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.
3. All exposed concrete edge shall have a 3/4"x45° chamfer, except where shown otherwise.
4. The culvert barrels shall be poured monolithically with the wingwalls.



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PLOT DATE =	DATE - 9/22/2021	REVISED -

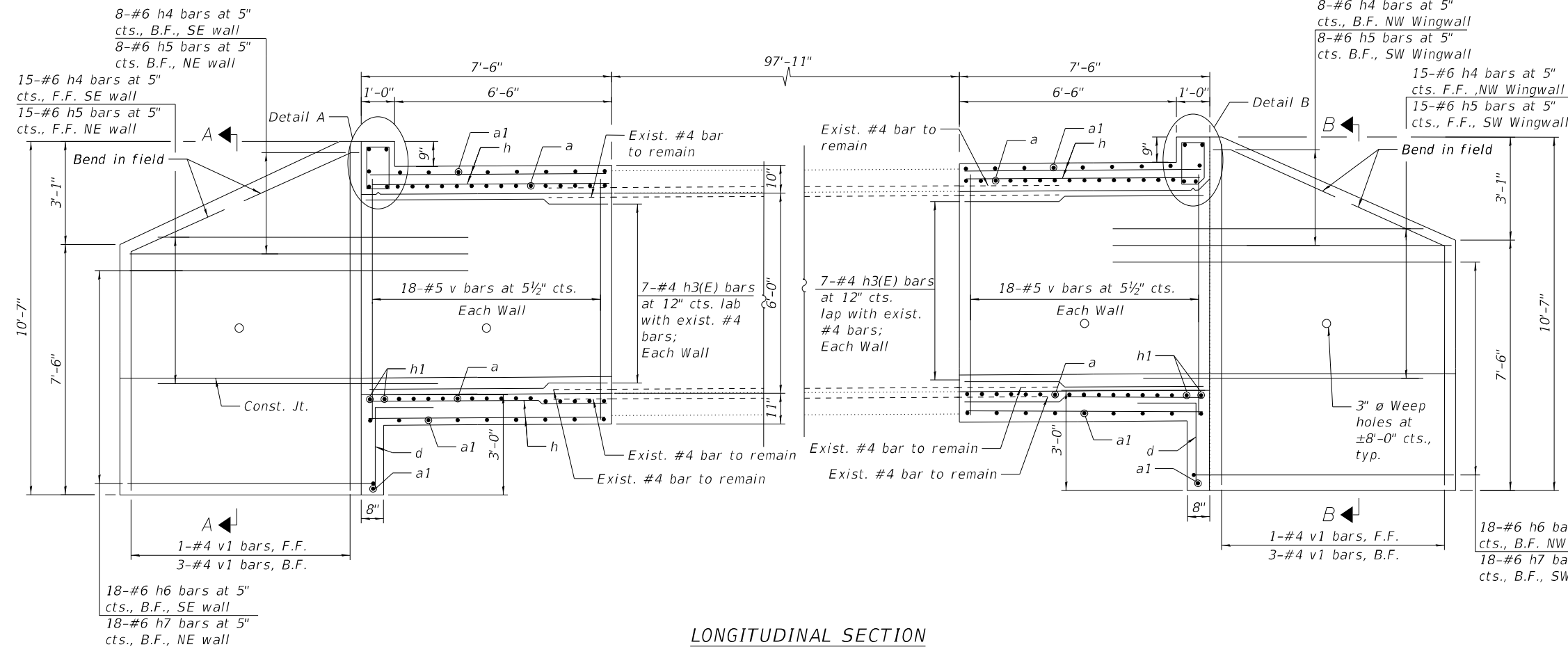
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT WEST END RECONSTRUCTION PLAN
 S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	97
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

SHEET S3-07 OF S3-11 SHEETS

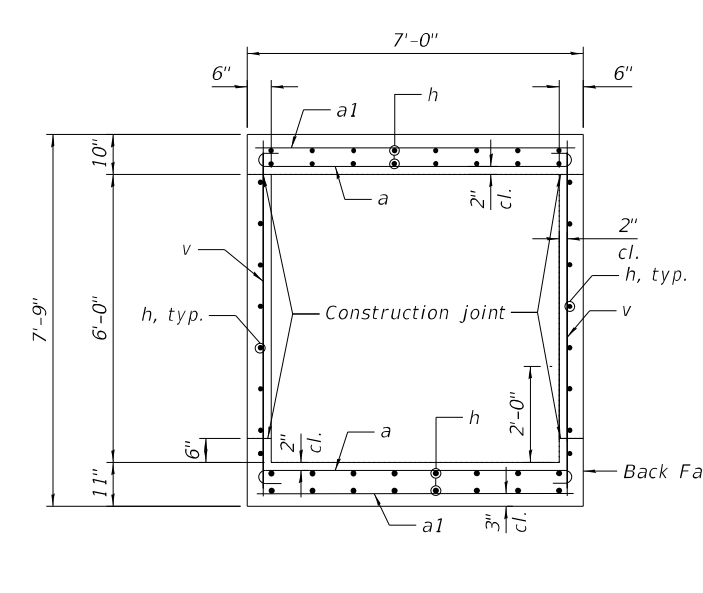
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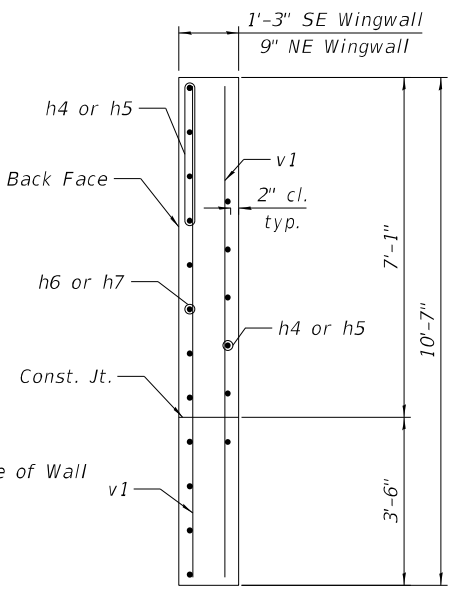
LONGITUDINAL SECTION

BILL OF MATERIALS

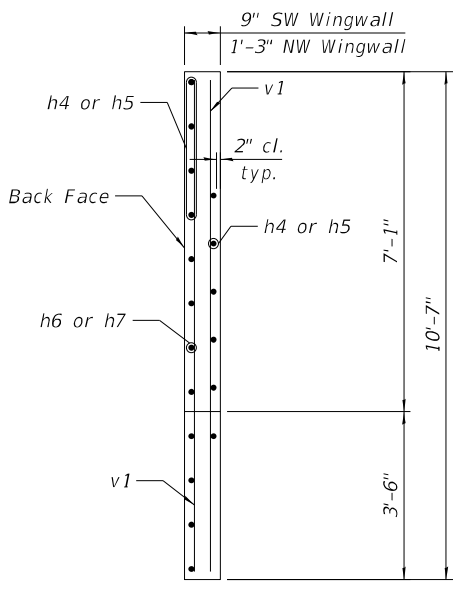
Bar	No.	Size	Length	Shape
a	64	#6	9'-1"	
a1	38	#5	6'-8"	—
d	16	#4	4'-5"	
h	64	#5	6'-8"	—
h1	4	#6	6'-8"	—
h2	4	#7	6'-8"	—
h3	28	#4	6'-8"	—
h4	46	#6	8'-0"	
h5	46	#6	8'-0"	
h6	36	#6	17'-6"	
h7	36	#6	11'-6"	
s	8	#4	4'-7"	
s1	8	#4	4'-7"	
v	72	#4	7'-4"	—
v1	8	#4	10'-2"	—
Reinforcement Bars			Pound	5,000
Concrete Box Culverts			Cu. Yd.	30.4
Membrane Waterproofing System For Buried Structures			Sq. Yd.	15



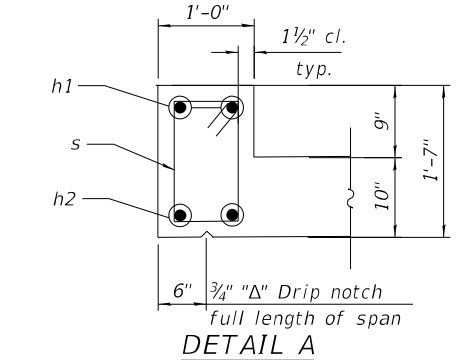
SECTION THRU BARREL



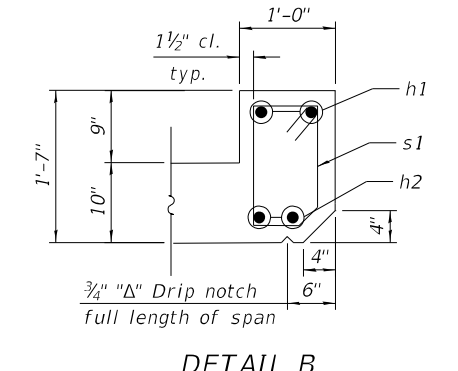
SECTION A-A



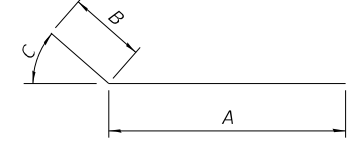
SECTION B-B



DETAIL A



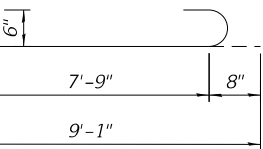
DETAIL B



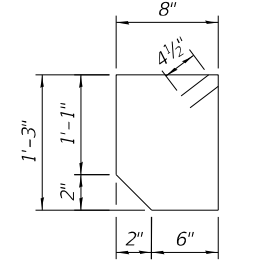
BARS h4 thru h7

TABLE 1

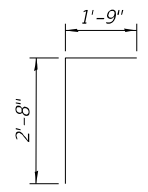
Bar	A	B	C
h4	5'-0"	3'-0"	29°54'31"
h5	5'-0"	3'-0"	60°5'31"
h6	14'-6"	3'-0"	29°54'31"
h7	8'-6"	3'-0"	60°5'31"



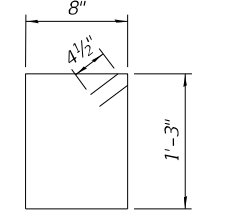
BAR a



BAR s1



BAR d



BAR s

MINIMUM BAR LAPS

#4 1'-9"



USER NAME =	DESIGNED - MAA, EBK	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

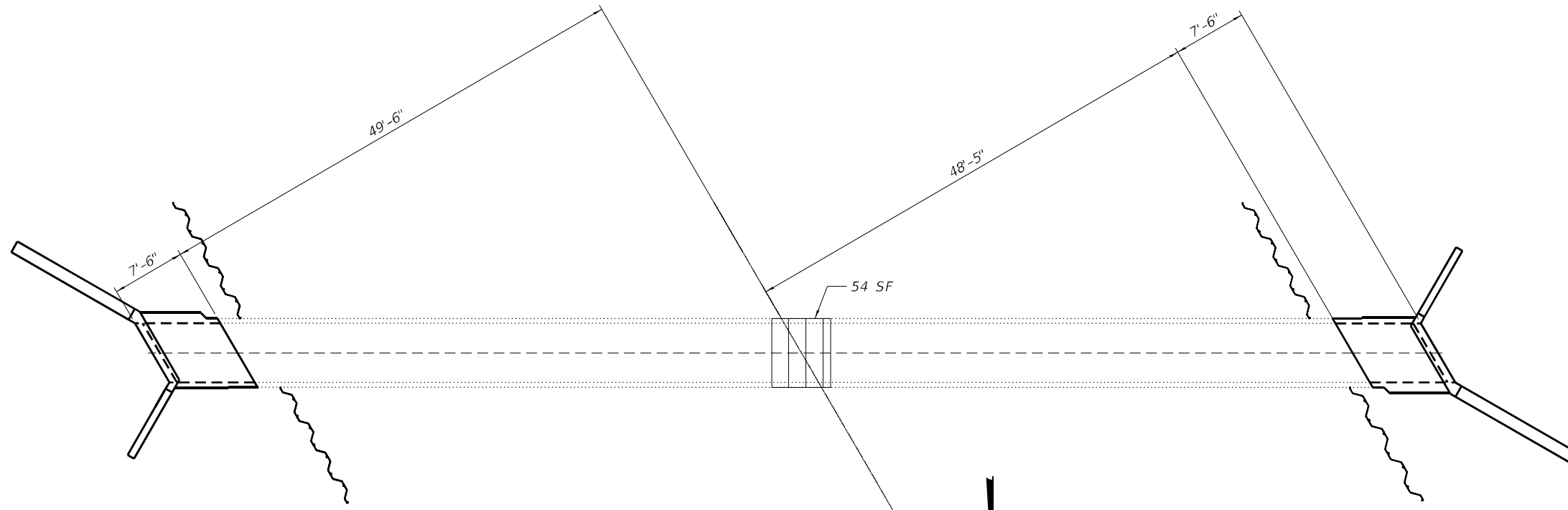
**CULVERT SECTIONS AND DETAILS
 S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S3-08 OF S3-11 SHEETS

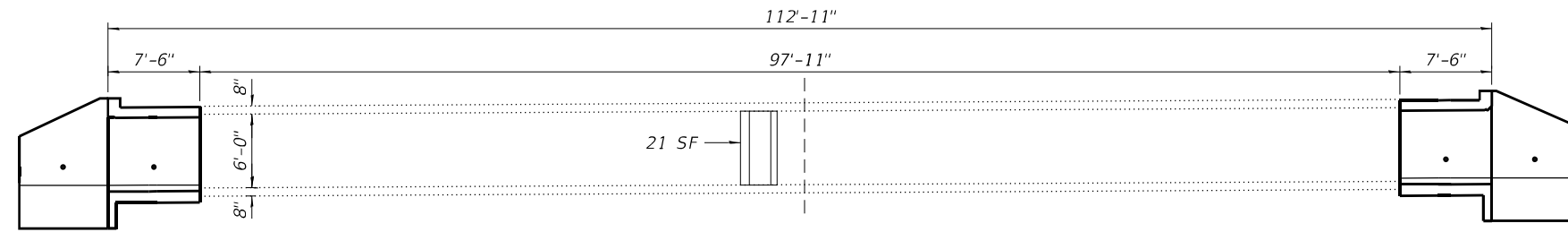
F.A.P. RTE. = 346	SECTION = 2019-049-T	COUNTY = LAKE	TOTAL SHEETS = 139	SHEET NO. = 98
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Item	Unit	Quantity
Polymer Modified Portland Cement Mortar	Sq Ft	94

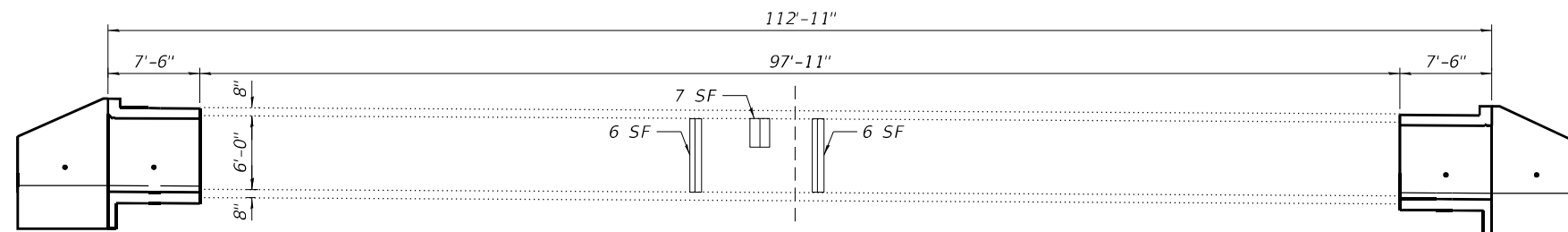


PLAN - TOP SLAB



ELEVATION - SOUTH WALL

(Looking South)



ELEVATION - NORTH WALL

(Looking North)

LEGEND:



Polymer Modified Portland Cement Mortar Repair

SF Square Feet

MODEL: Default
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PLOT DATE =	DRAWN - EBK	REVISED -
	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT REPAIRS
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S3-09 OF S3-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	99
CONTRACT NO. 62J26				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 2
Date 3/12/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY PS/RM
SECTION North of Illinois 173 to South of Westleigh LOCATION SN-049-2015, SEC., TWP., RNG., Latitude, Longitude
COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
SN 049-2015	393+60.24	(ft)	(/6")	(tsf)	(%)	N/A ft	N/A ft	ft	ft	ft	ft	
8 inches of Asphalt		668.51										
Brown, Moist FILL: SILTY CLAY LOAM, with fine grained sand, some gravel			2 5 5	0.6 B	10							
Brown and Gray, Moist to Very Moist FILL: SILTY CLAY, trace sand and gravel		665.68	2 3 5	2.5 P	25							
			3 4 6	2.9 B	15							
			2 5 7	4.2 B	18							
			4 10 13	5.4 B	18							
Hard to Stiff Gray and Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)		655.18	3 6 7	4.2 B	20			635.18	0	1	2	25
			1 3 6	2.5 B	18			630.18	4	5 6	2.1 B	25
Very Stiff Gray and Brown, Very Moist		629.18										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2
Date 3/12/20

ROUTE US-41 DESCRIPTION US Route 41 Culvert Repair LOGGED BY PS/RM
SECTION North of Illinois 173 to South of Westleigh LOCATION SN-049-2015, SEC., TWP., RNG., Latitude, Longitude
COUNTY Lake DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
SN 049-2015	393+60.24	(ft)	(/6")	(tsf)	(%)	N/A ft	N/A ft	ft	ft	ft	ft	
SILTY CLAY, trace sand and gravel (CL/ML)												
End of Boring												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
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PLOT DATE =	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
S.N. 049-2015 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S3-10 OF S3-11 SHEETS

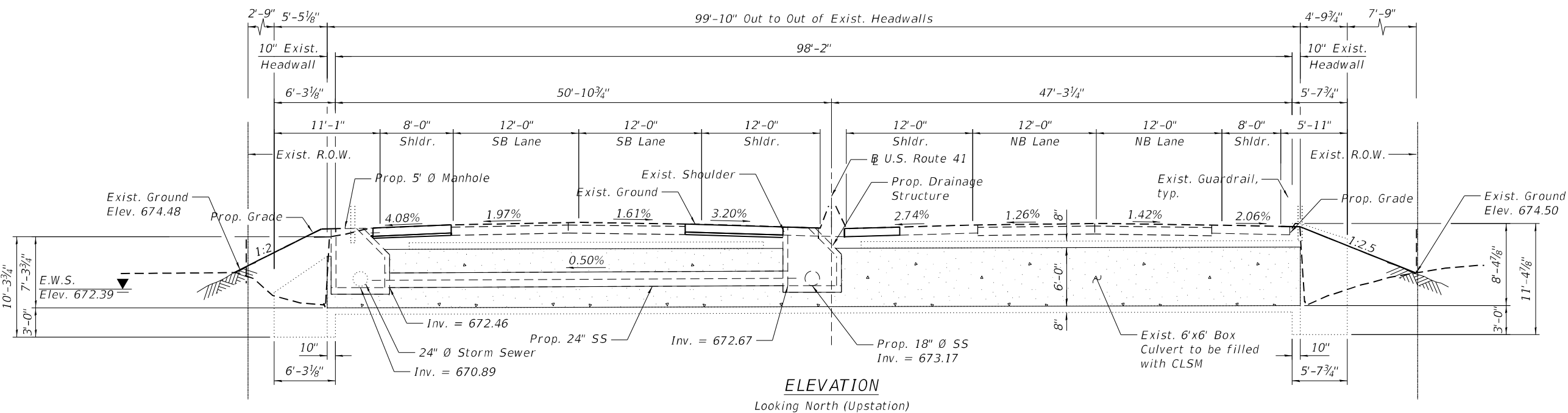
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346	2019-049-T	LAKE	139	100
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

Benchmark: Chisled square in center of 4' headwall on the East side of US-41 (Located approximately 250' South of SN 049-0575). Elevation 676.45.

Existing Structure: S.N. 049-0575 Located on US 41 over a unnamed creek is a concrete single cell box culvert. The culvert is 99'-10" in length with no skew; the cell width and height are both approximately 6 ft. The wingwalls are 6'-6" long on the east end of the culvert with a 2'-6" high headwall with a 45° angle to the rest of the structure on both ends of the structure. On the west end of the culvert, the wingwalls are 7'-6" long with 1'-3" high headwall. The original construction took place in 1935 under P.W.S Project 8873 Section 21 as a cattle pass structure. The structure has since been widened, but no structural plans of the widening were found.

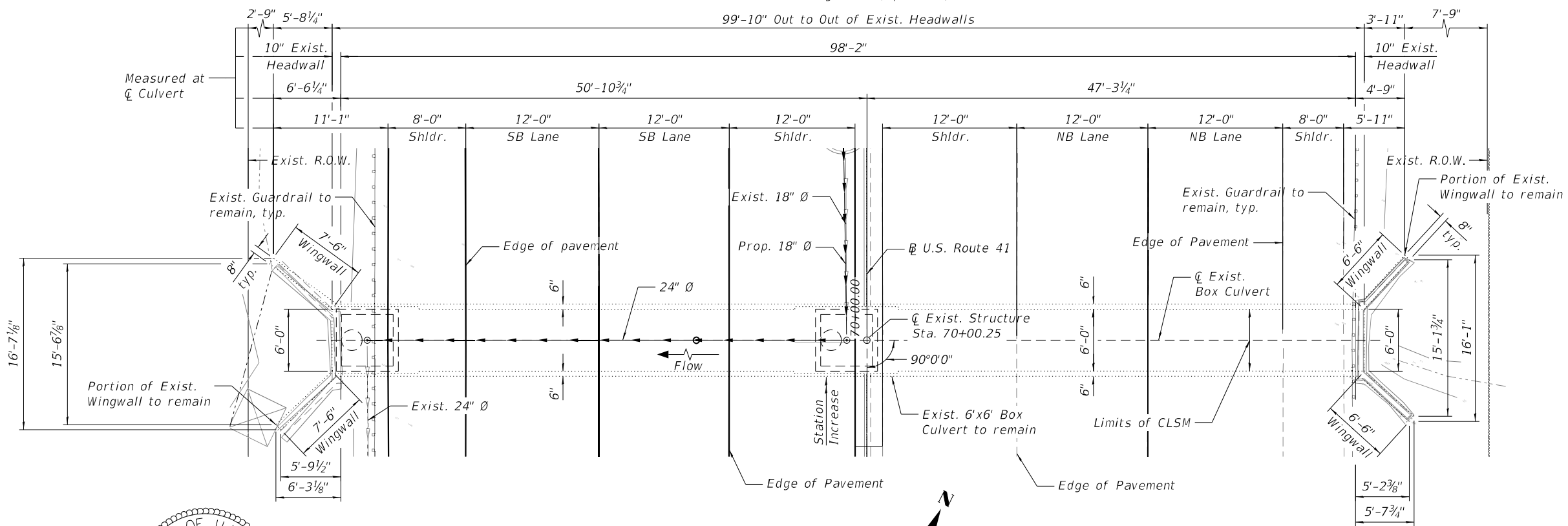
DESIGN SPECIFICATIONS
AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002

- LEGEND**
- Prop. Storm Sewer
 - Prop. Manhole
 - Prop. Catch Basin
 - Exist. Storm Sewer
 - Exist. Guardrail
 - NB Northbound
 - SB Southbound

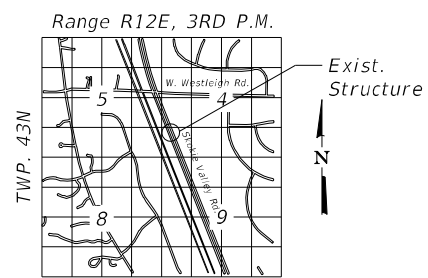


ELEVATION

Looking North (Upstation)



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
US ROUTE 41 OVER DITCH
F.A.P. RTE 346 - SECTION 2019-049-T
LAKE COUNTY
STATION 70+00.25
STRUCTURE NO. 049-0575

Signed *Moussa A. Issa*
Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
Expires 11-30-2022
Date 07/29/2021
For Sheets S4-01 Thru S4-04
(Total of 4 Sheets)



HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JMI, CP	REVISED -
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PLOT DATE =	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 049-0575 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET S4-01 OF S4-04 SHEETS

F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
346	2019-049-T	LAKE	139	102
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

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9/22/2021 8:53:30 AM

GENERAL NOTES:

1. 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 work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
3. 2-Year Flow (Q) = 7.41 cfs

SCOPE OF WORK:

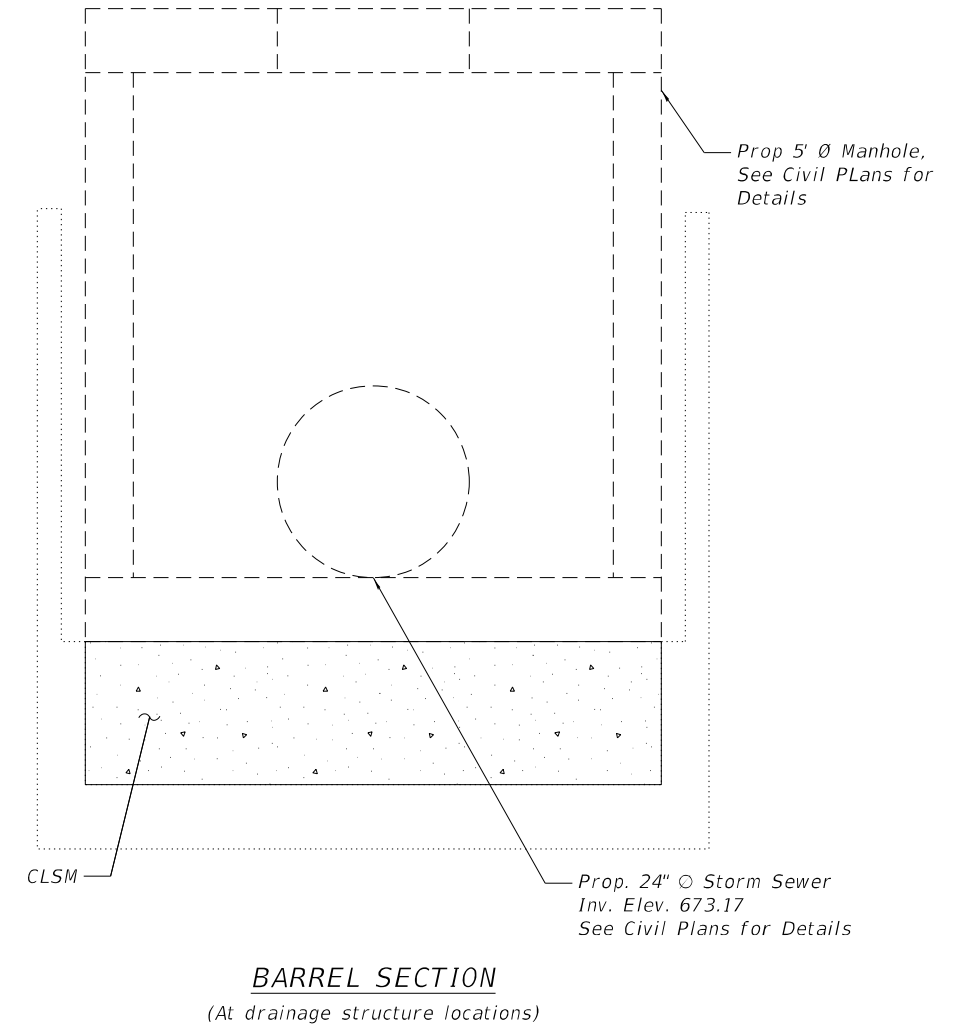
1. Clean the inside of existing box culvert.
2. Perform concrete removal of top portion of existing wingwalls, headwalls, and top slab of box culvert.
3. Install proposed 24" Ø storm sewer in West portion of culvert.
4. Fill the void around the storm sewer inside the box culvert with CLSM.

INDEX OF SHEETS

S4-01	General Plan and Elevation
S4-02	General Notes, Index of Sheets & Bill of Material
S4-03	Stage I and II Construction
S4-04	Existing Structure Removal

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	6.7
Controlled Low-Strength Material	Cu Yd	108.1
Box Culverts To Be Cleaned	Foot	100



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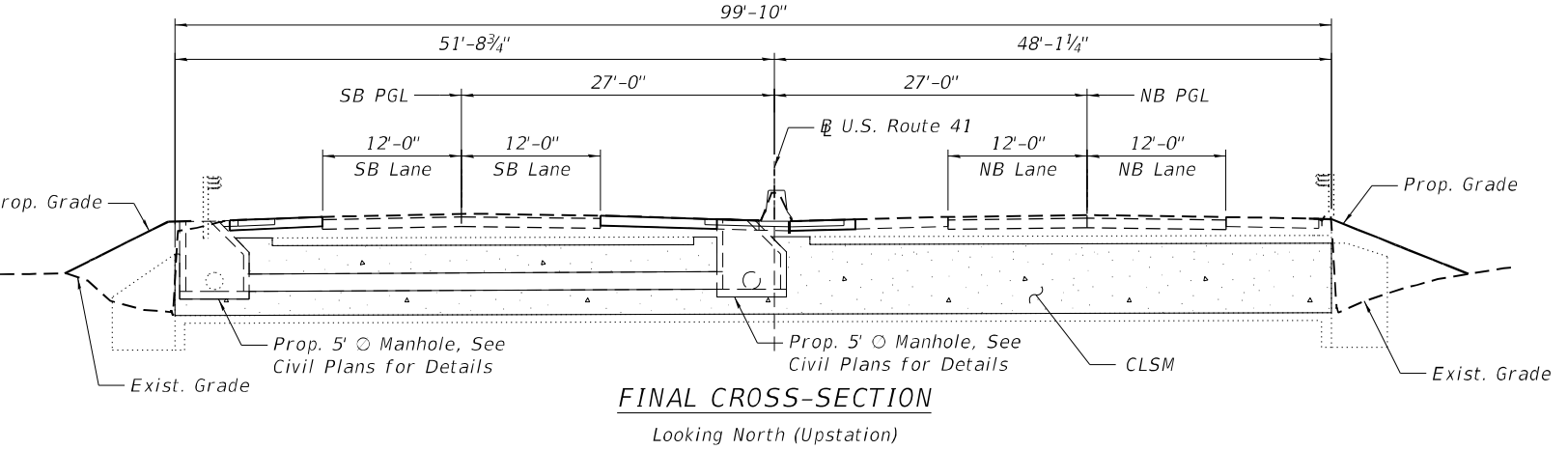
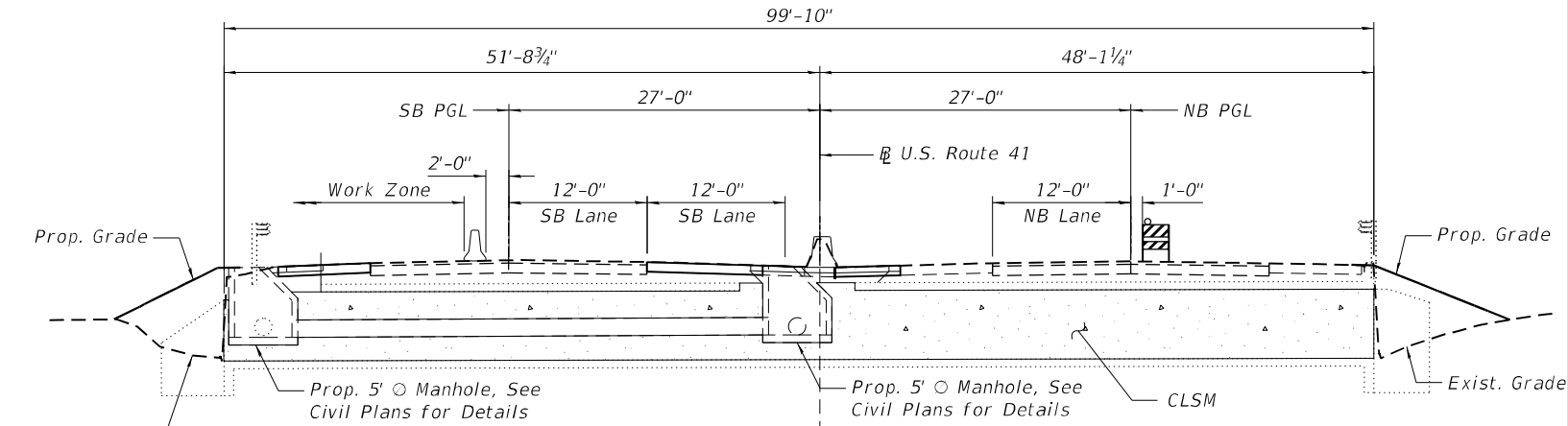
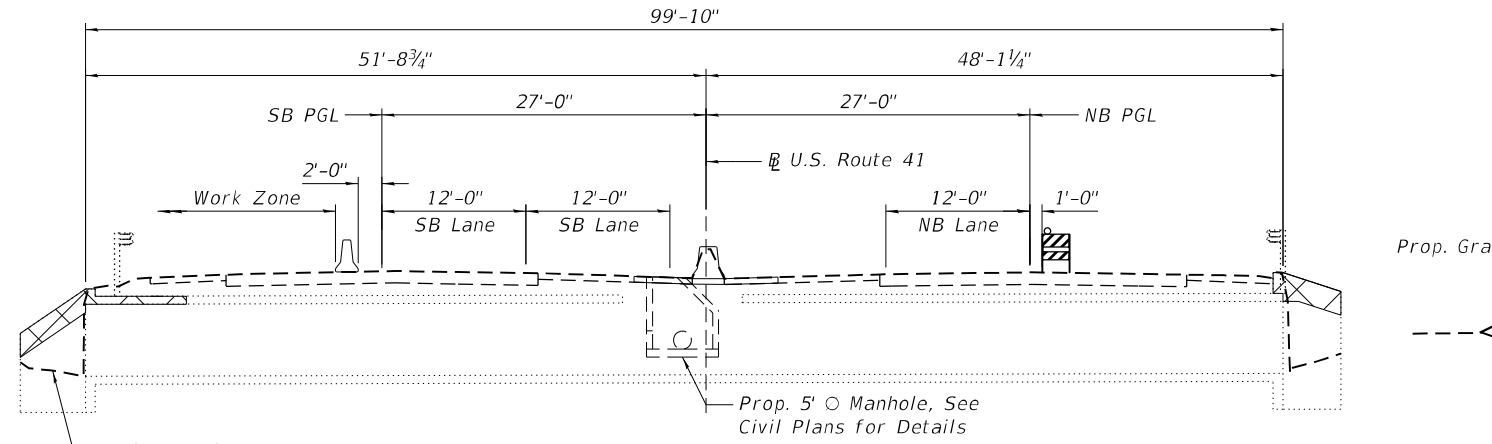
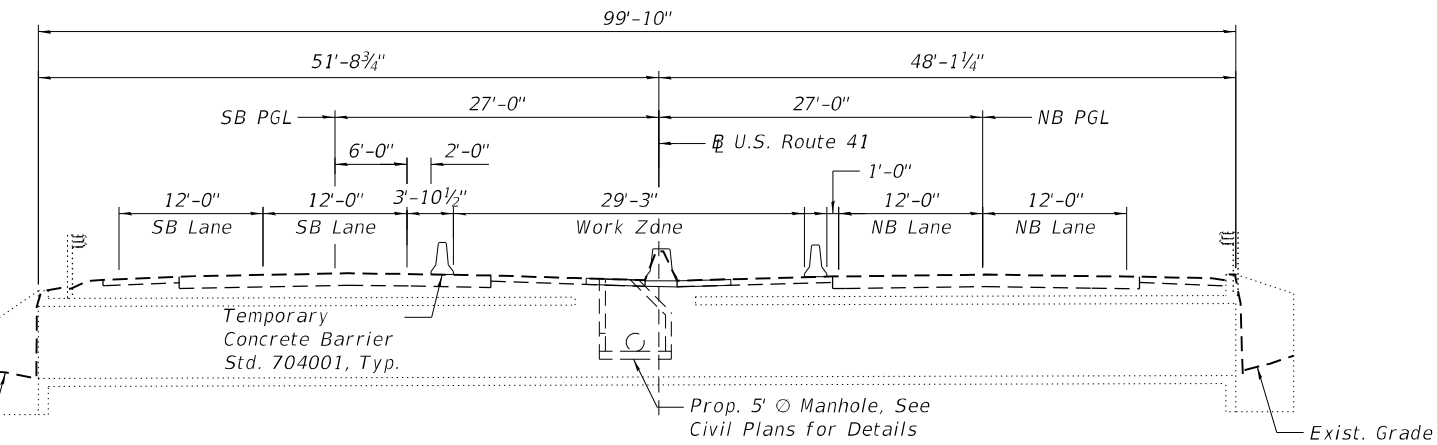
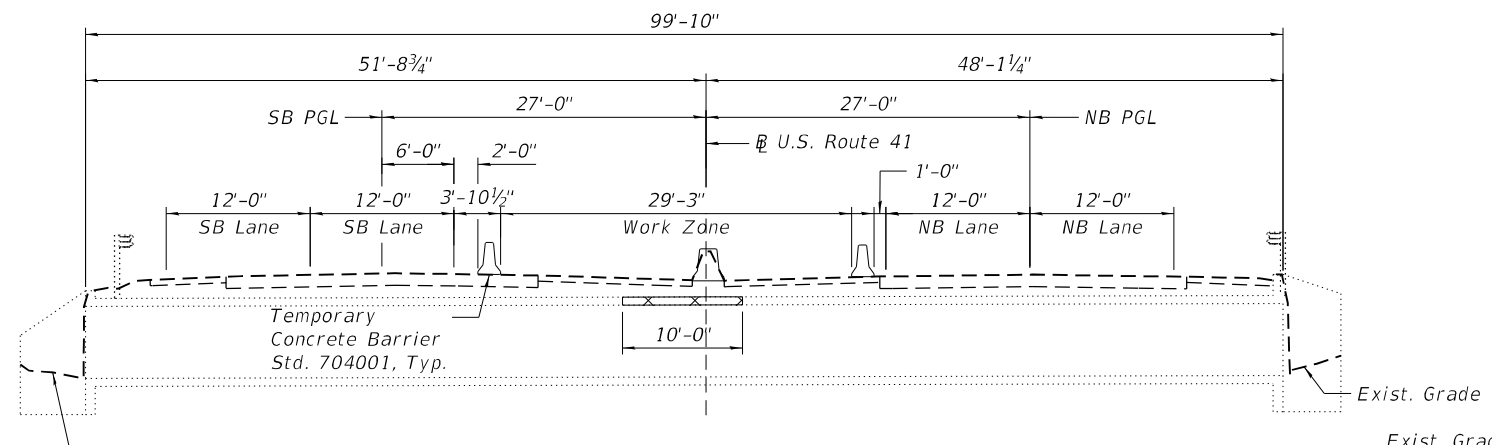
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PLOT DATE =	DATE - 9/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIAL
S.N. 049-0575 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

SHEET S4-02 OF S4-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	103
CONTRACT NO. 62J26				
ILLINOIS		FED. AID PROJECT		



STAGE I REMOVAL

1. Install Temporary Concrete Barrier in NB and SB inside median as shown.
2. Clean the inside of the existing box culvert.
3. Remove portion of existing shoulder and median barrier.
4. Remove portion of existing culvert top slab as shown.

STAGE I CONSTRUCTION

1. Install drainage structure under inside Median.
2. Reconstruct the shoulder and Median Barrier.

STAGE II REMOVAL

1. Install Temporary Concrete Barrier in NB and SB outside lane as shown and shift traffic into median shoulder.
2. Remove portion of existing culvert top slab, wingwall and headwall on west end of culvert as shown.
3. Remove portion of wingwall and headwall on east end of culvert as shown.

STAGE II CONSTRUCTION

1. Insert pipe and install drainage structure on the west end of the culvert.
2. Reconstruct the shoulder on the west end of the culvert.
3. Fill culvert with CLSM.
4. Grade both ends of the existing culvert.

NOTE:
1. Dimensions are at right angles to U.S. roadway.

LEGEND:

Concrete Removal

CLSM

MODEL: Default
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	DATE - 9/22/2021	REVISED -

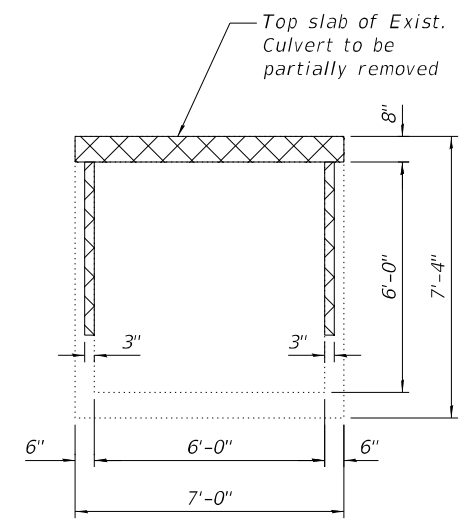
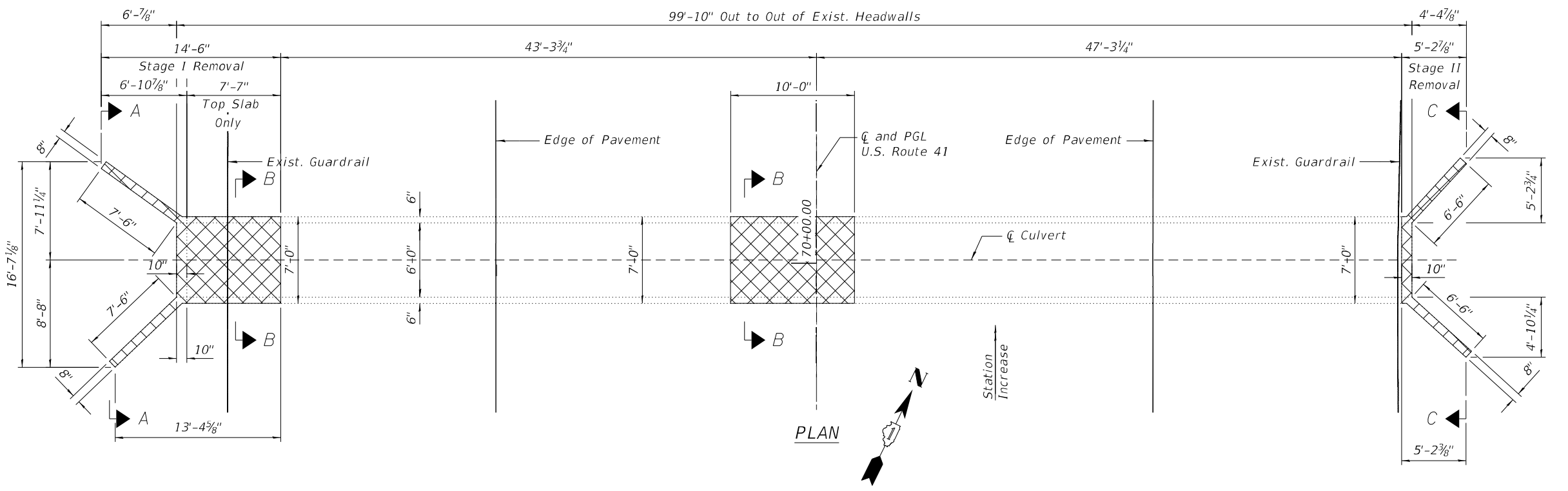
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE I AND II CONSTRUCTION
S.N. 049-0575 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	104
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

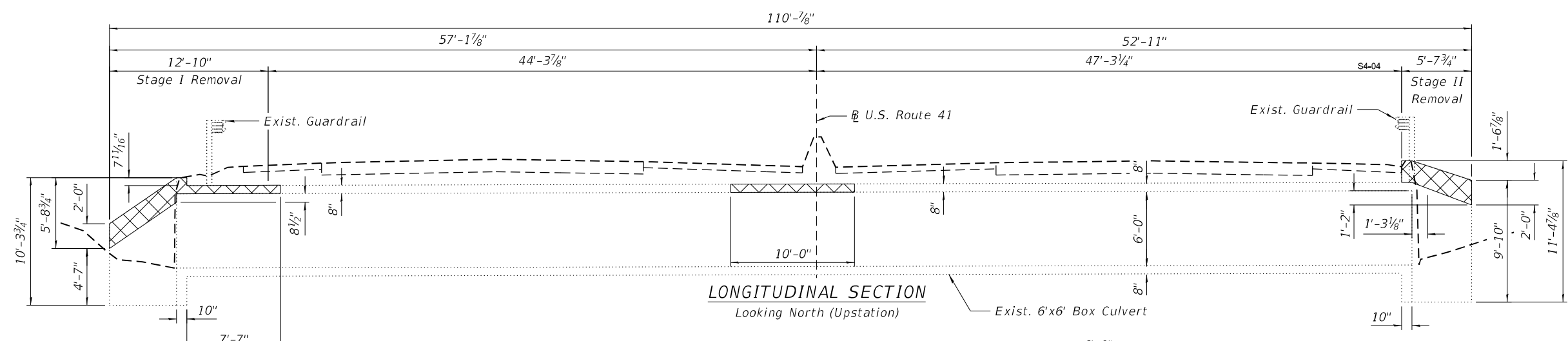
SHEET S4-03 OF S4-04 SHEETS

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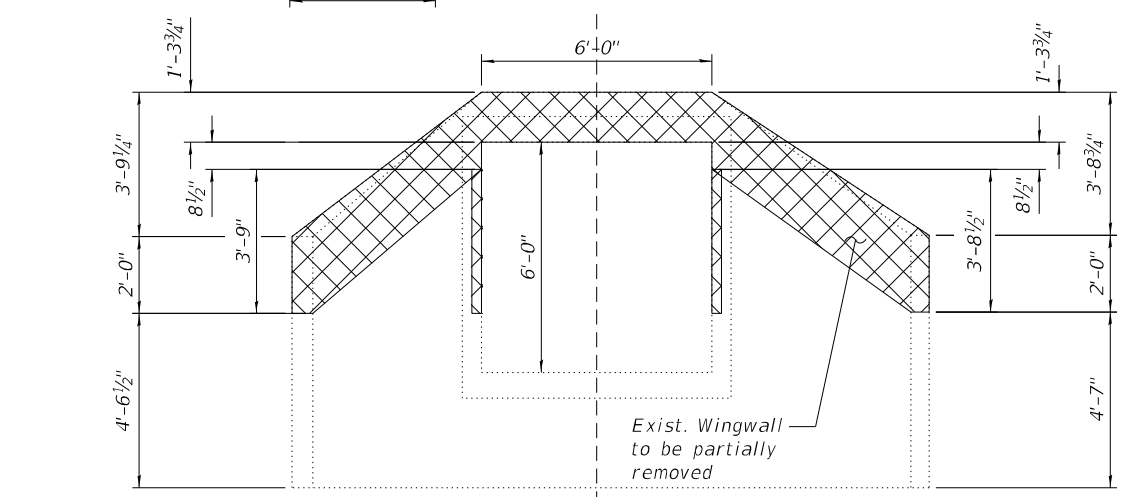


SECTION B-B
 (Top slab of west side similar)

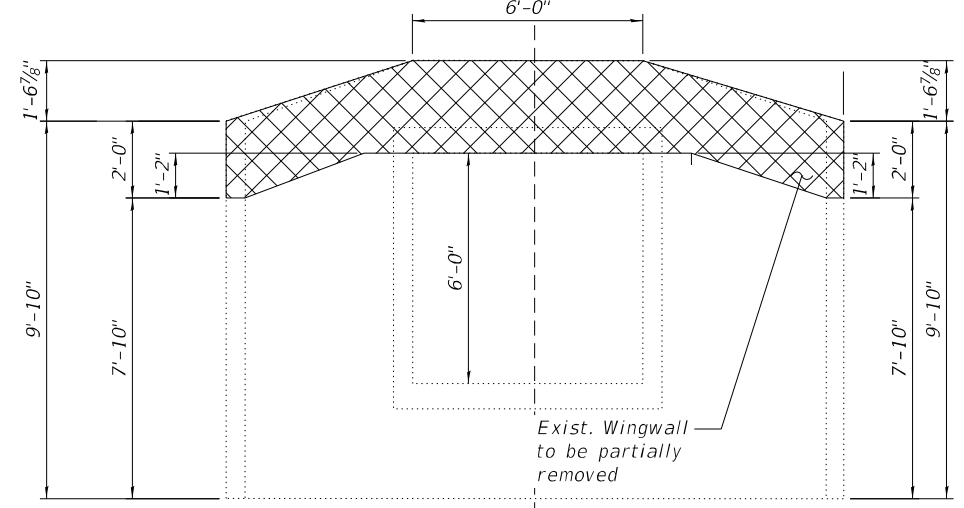
NOTE:
 1. Dimensions shown have been taken from field measurements and survey data and may not represent "as built" conditions. The Contractor must verify all dimensions in the field. Variation in the field dimensions shall not warrant additional compensation for Concrete Removal.



LONGITUDINAL SECTION
 Looking North (Upstation)



SECTION A-A



SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	6.7

LEGEND:

Concrete Removal



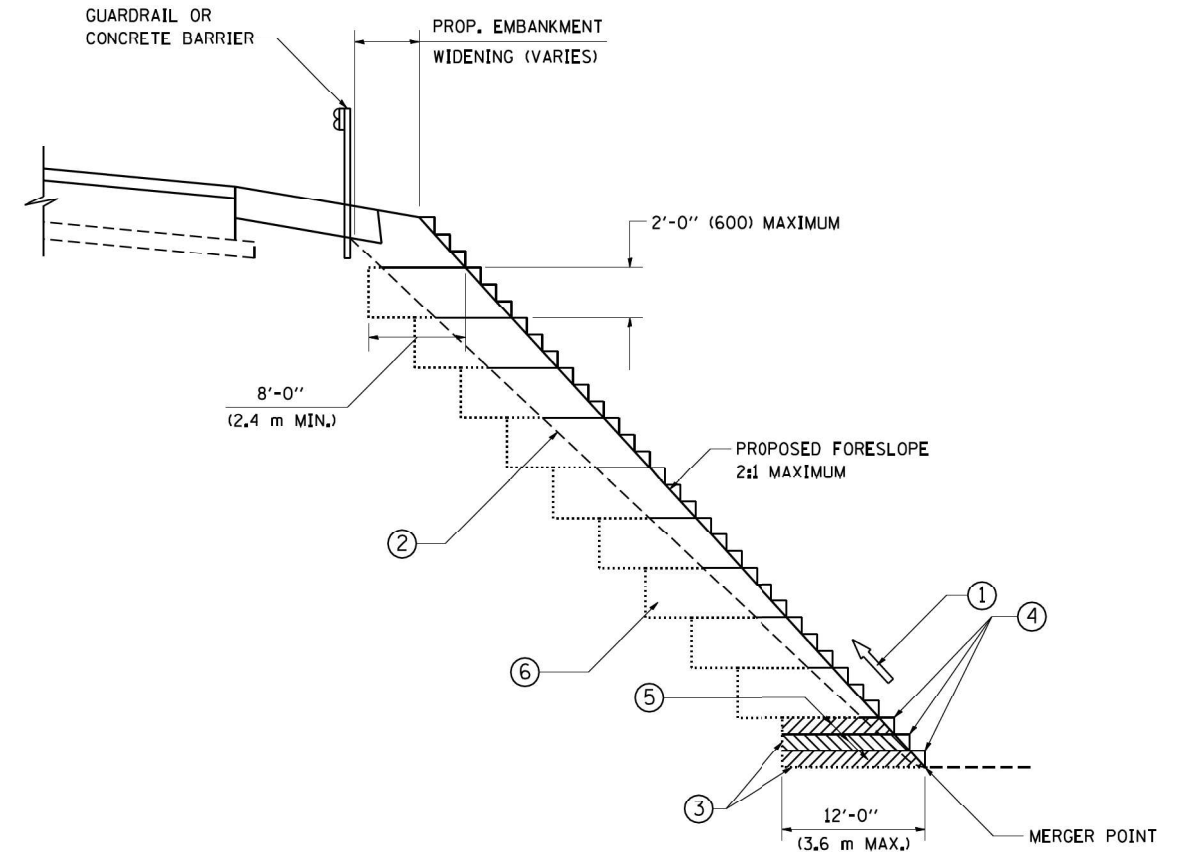
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PLOT DATE =	DRAWN - JMI, CP	REVISED -
	DATE - 9/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL
S.N. 049-0575 US 41 (SKOKIE HIGHWAY) OVER UNNAMED CREEK

SHEET OF S4-04 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	105
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

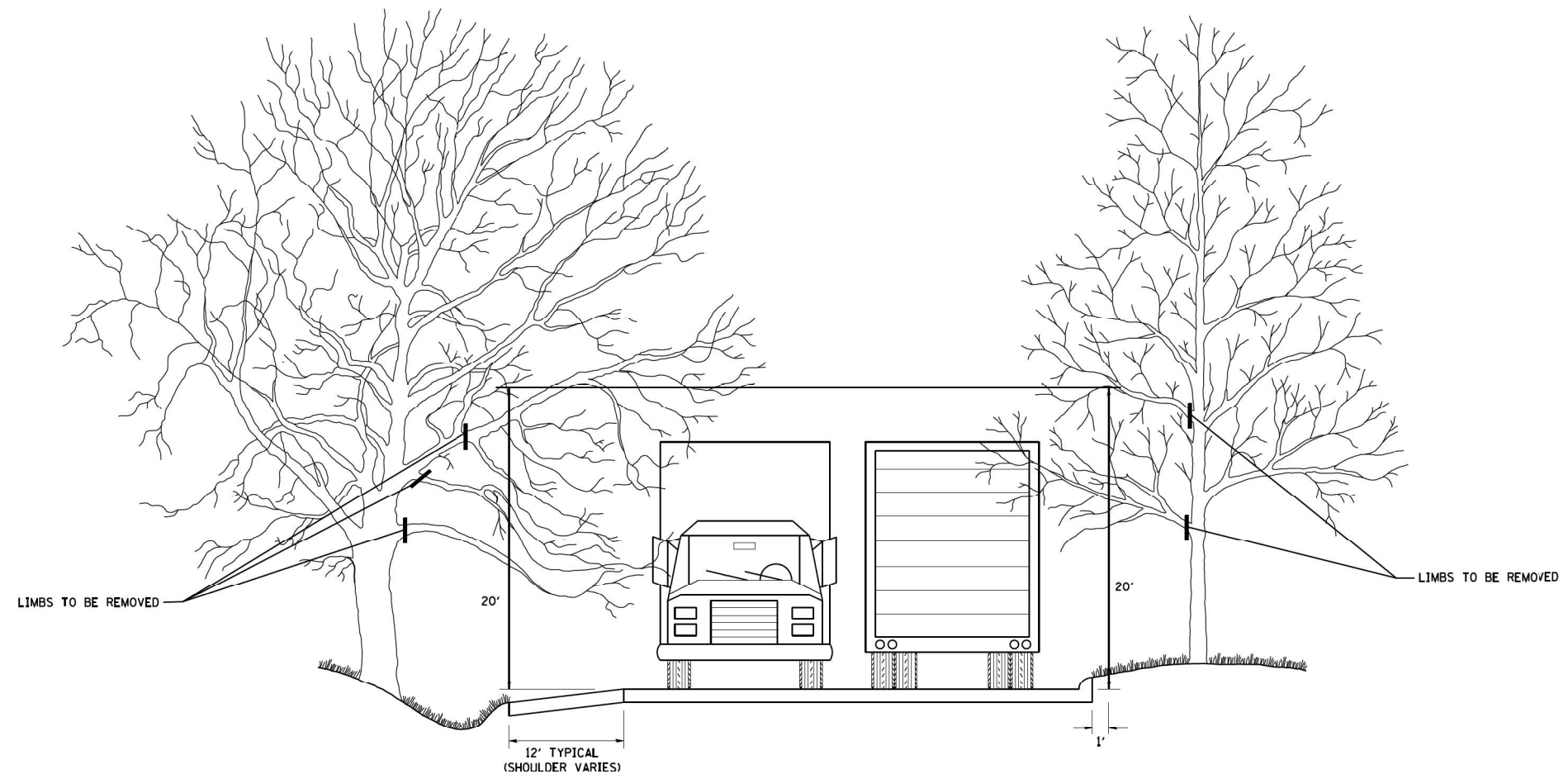
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	106
BD-51			CONTRACT NO. 62J26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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PLOT DATE = 1/4/2008

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DRAWN -
CHECKED -
DATE -

REVISED - R, BORO 10-31-06
REVISED -
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REVISED -

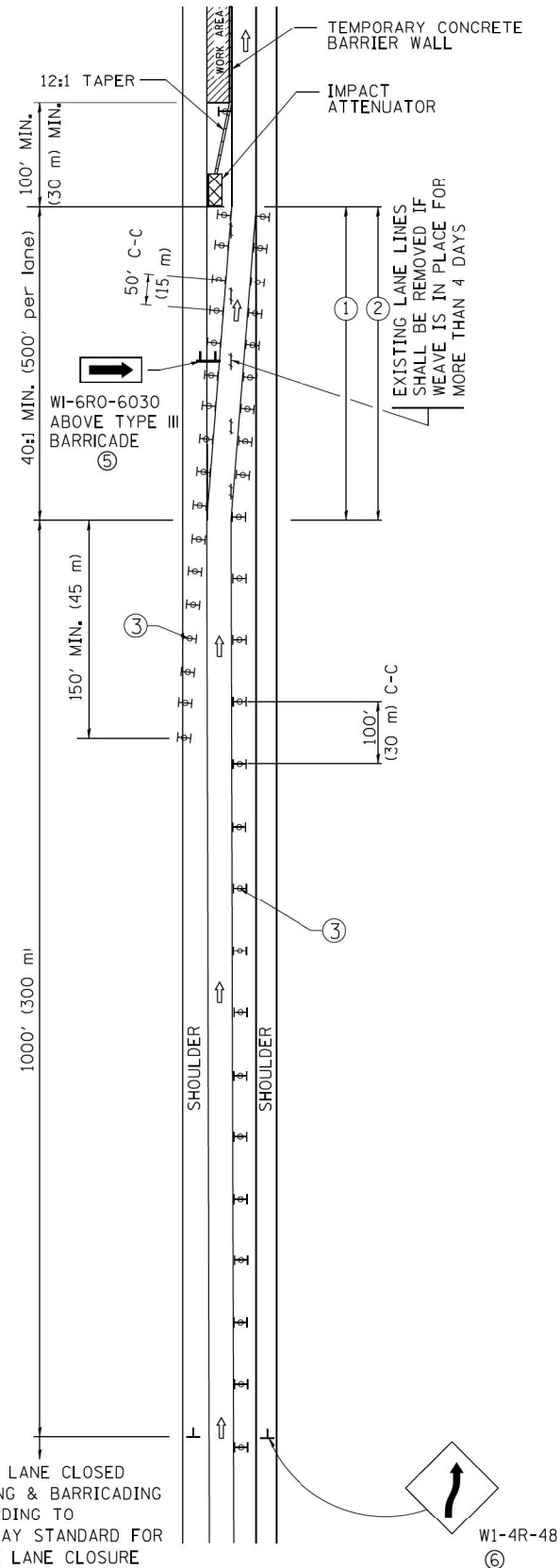
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
EQUIPMENT CLEARANCE**

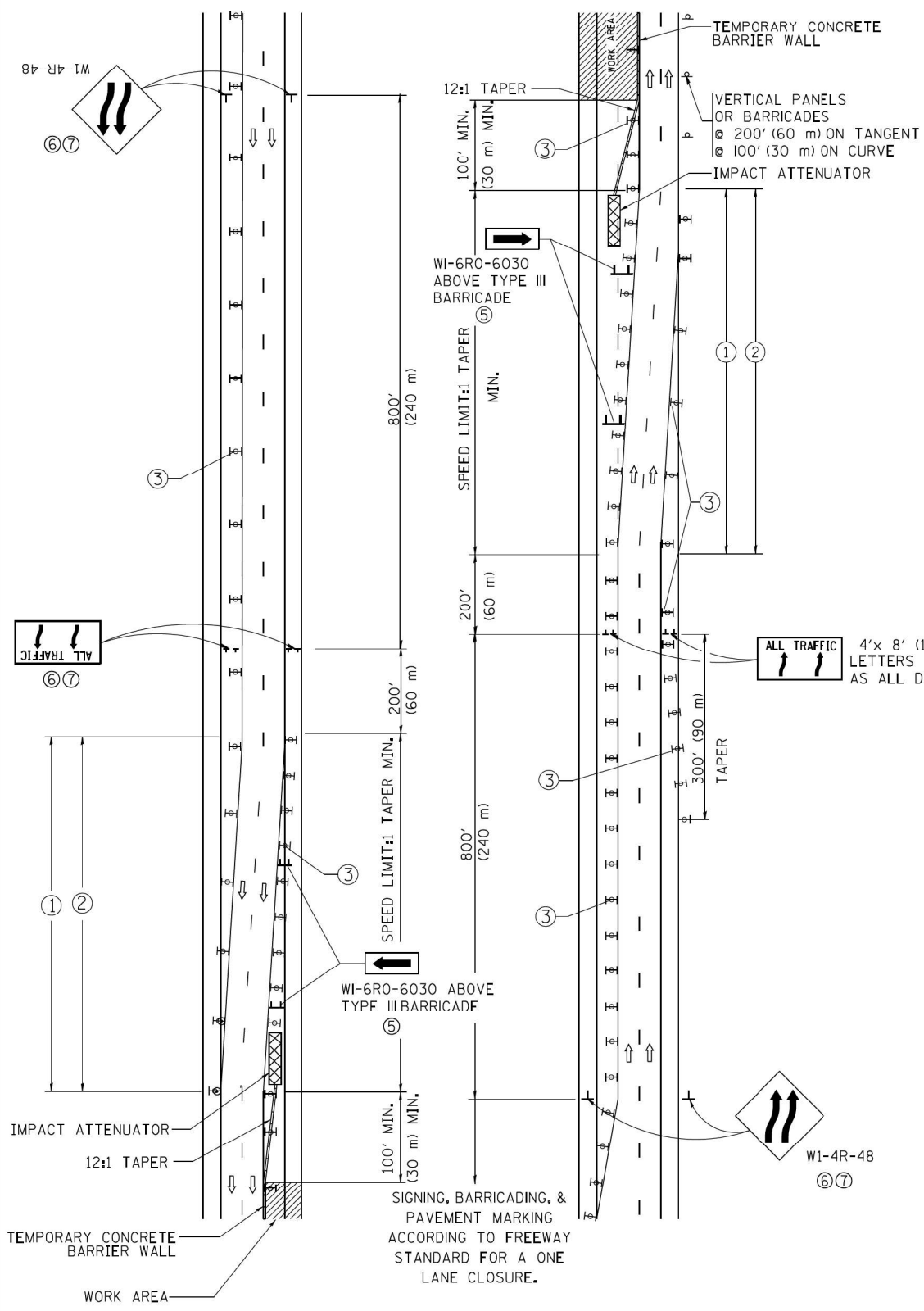
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	107
BM-20			CONTRACT NO. 62J26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

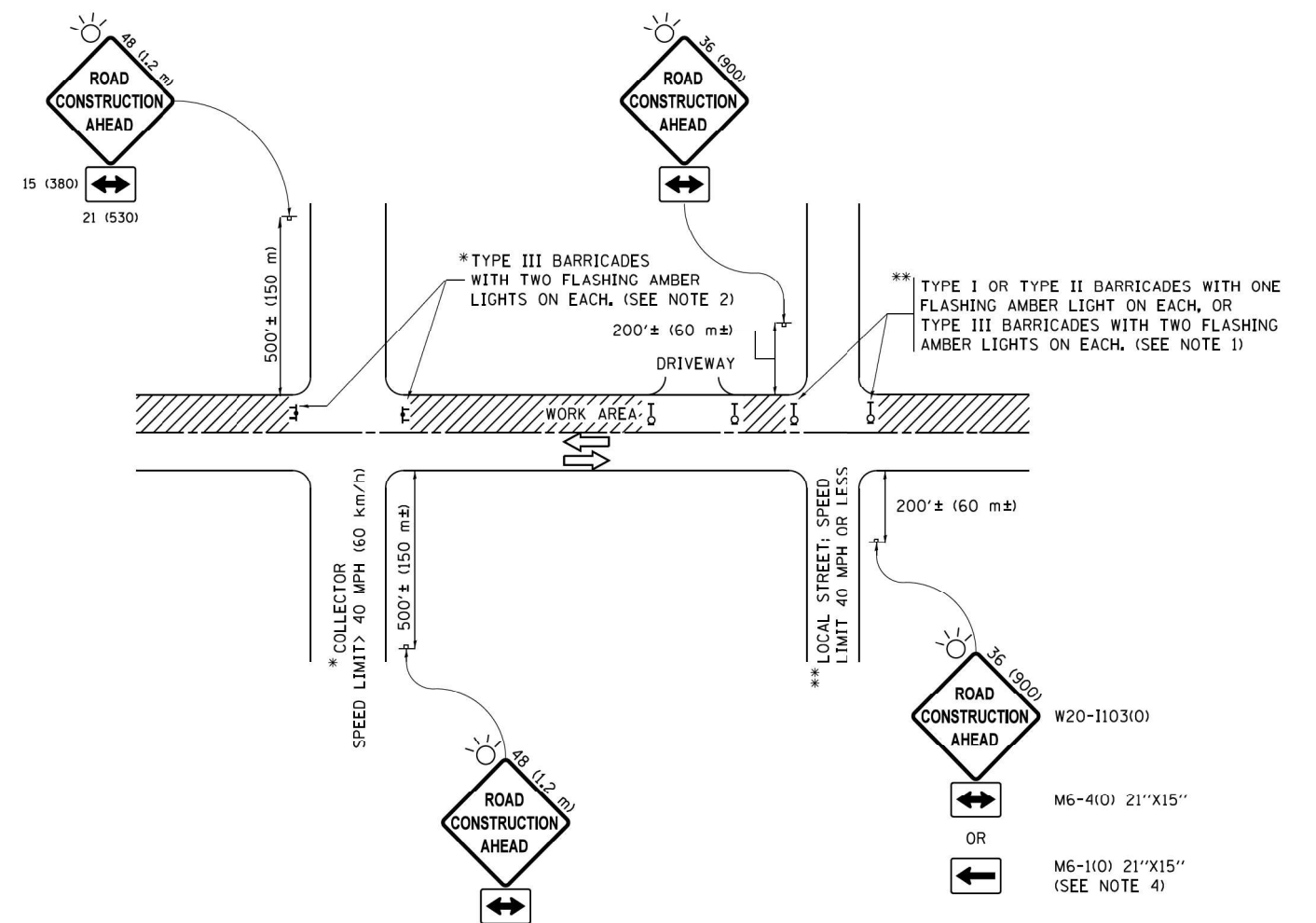
- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = foatemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 7/1/2013		DATE - 02-87	REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 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.

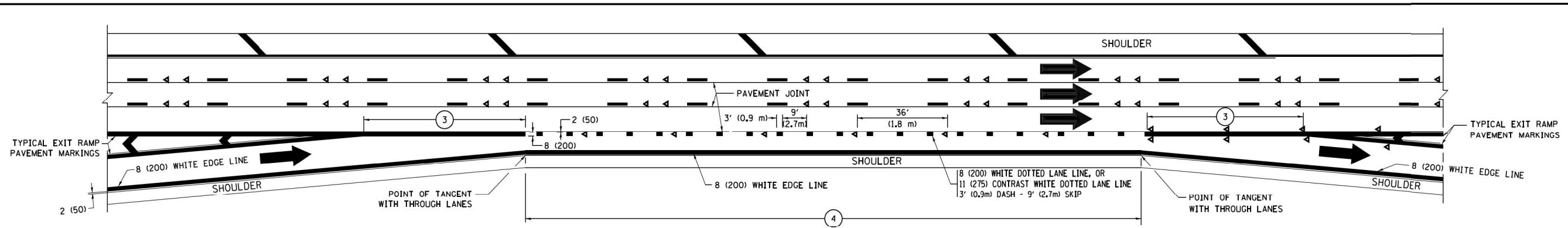
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

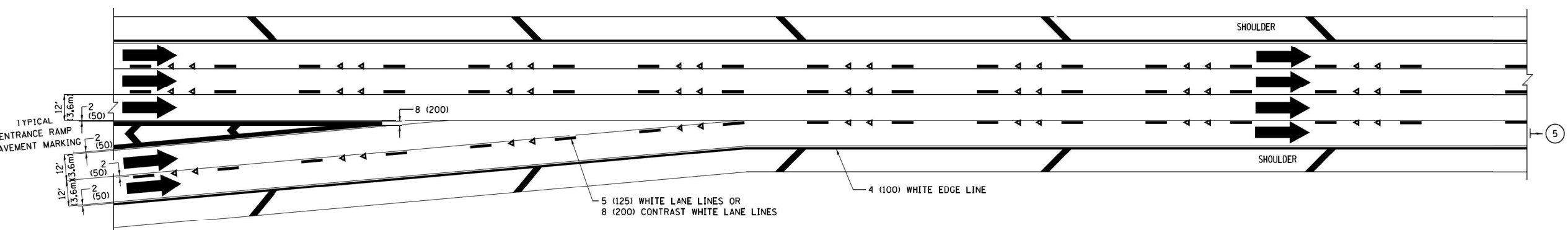
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

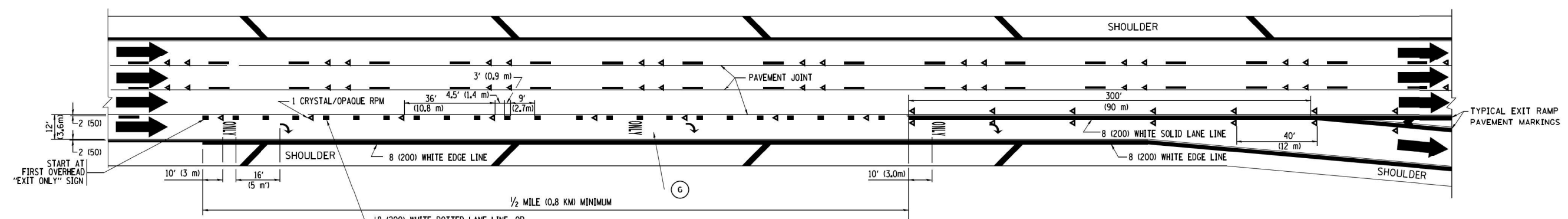
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	109
TC-10			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				



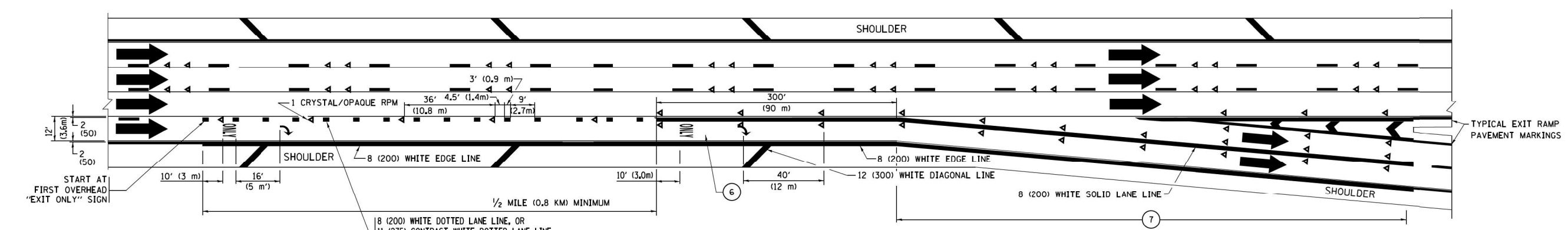
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



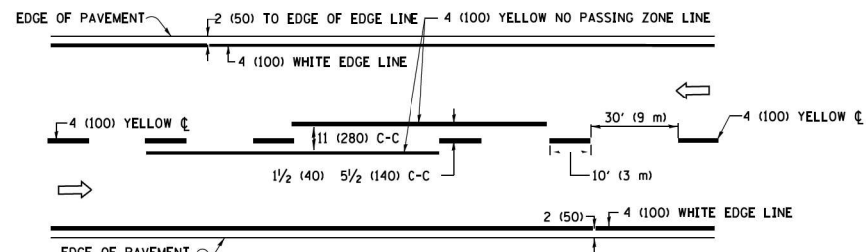
EXIT ONLY LANE MARKINGS



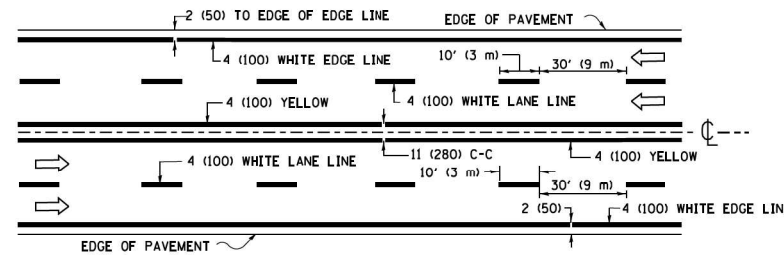
EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

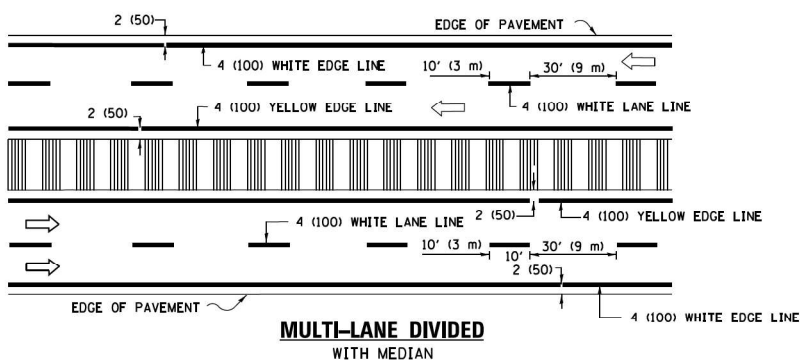
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Default	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET 2	OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 62J26	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 9/6/2017	DATE - 01-90	REVISED - S.P.B. 01-10									
			REVISED - M.D. 09-17									



2-LANE ROADWAY

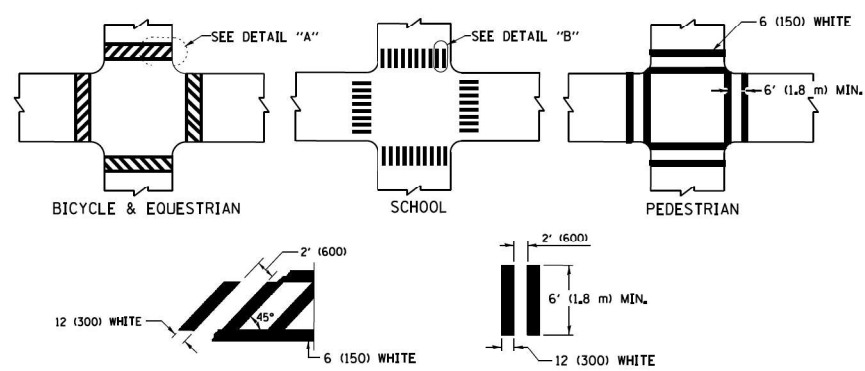


MULTI-LANE UNDIVIDED



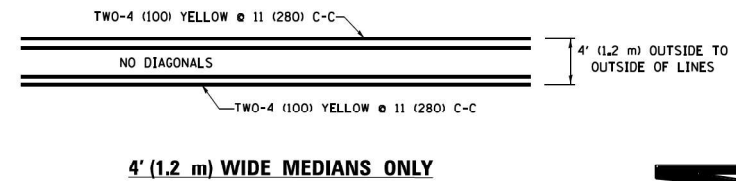
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

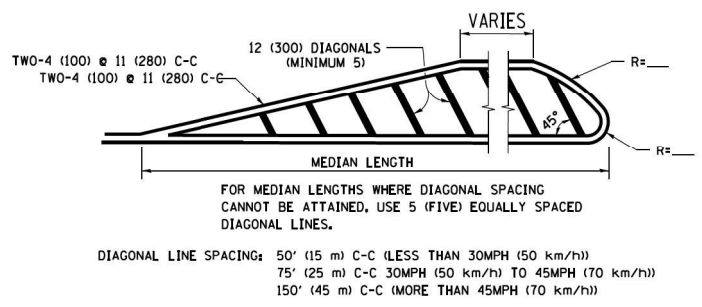


TYPICAL CROSSWALK MARKING

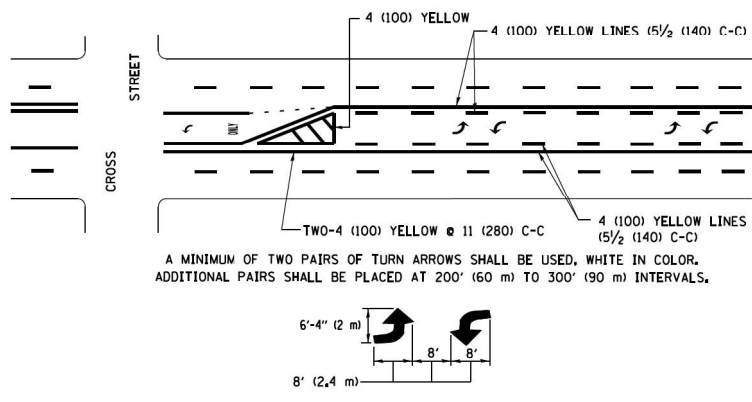
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



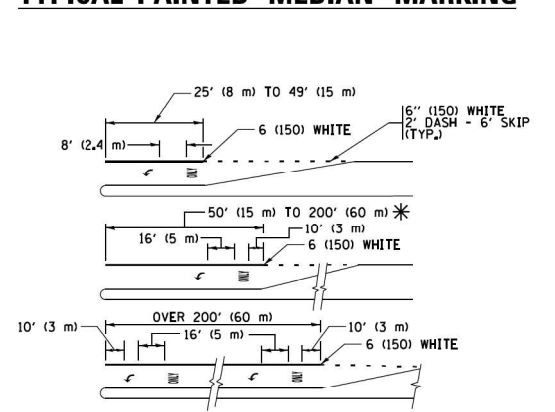
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

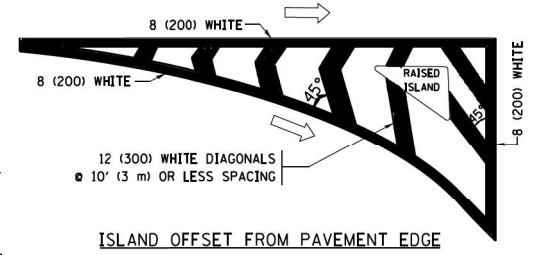


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

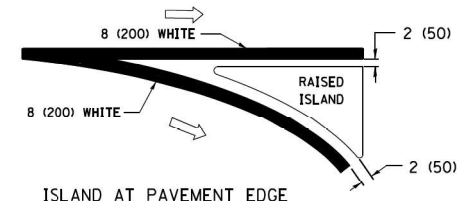


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²)

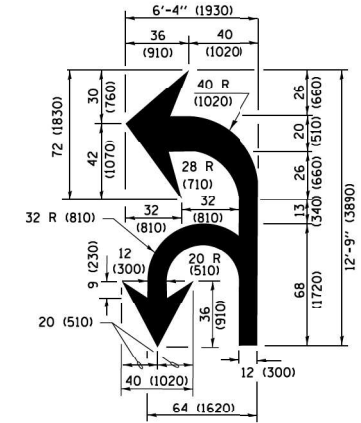
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



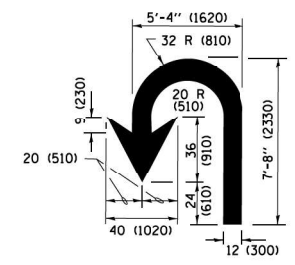
ISLAND OFFSET FROM PAVEMENT EDGE



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 WHITE WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE 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 /80001 AREA OF "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" "X"=54.0 SQ. FT. (5.0 m ²)
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' (25 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.

FILE NAME =	USER NAME = lcyss	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
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Default		PLOT SCALE = 50.0000' / 1"	REVISED - C. JUCIUS 12-21-15
		PLOT DATE = 6/23/2017	REVISED - C. JUCIUS 04-12-16
		DATE - 03-19-90	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	112
TC-13		CONTRACT NO. 62J26		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

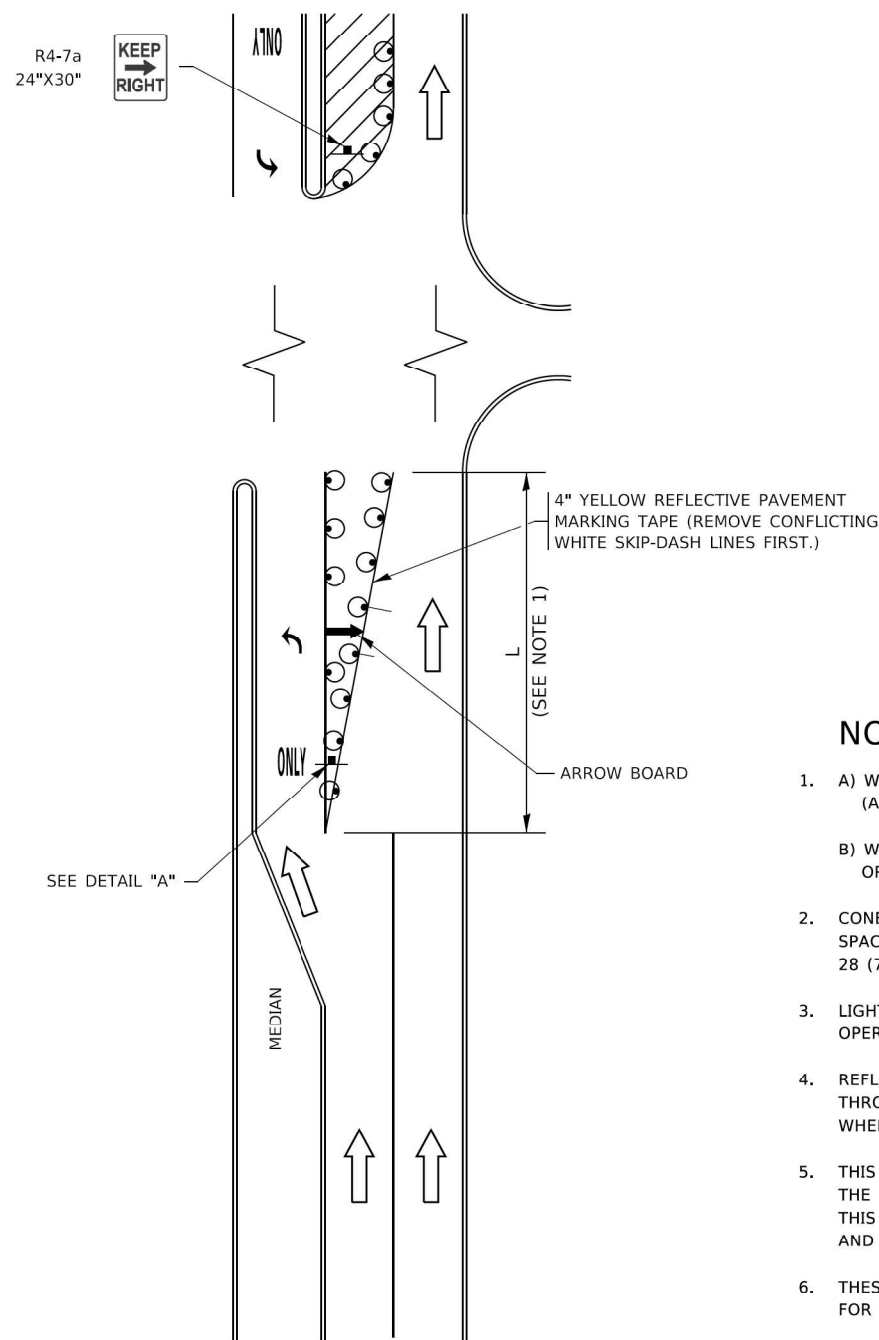


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

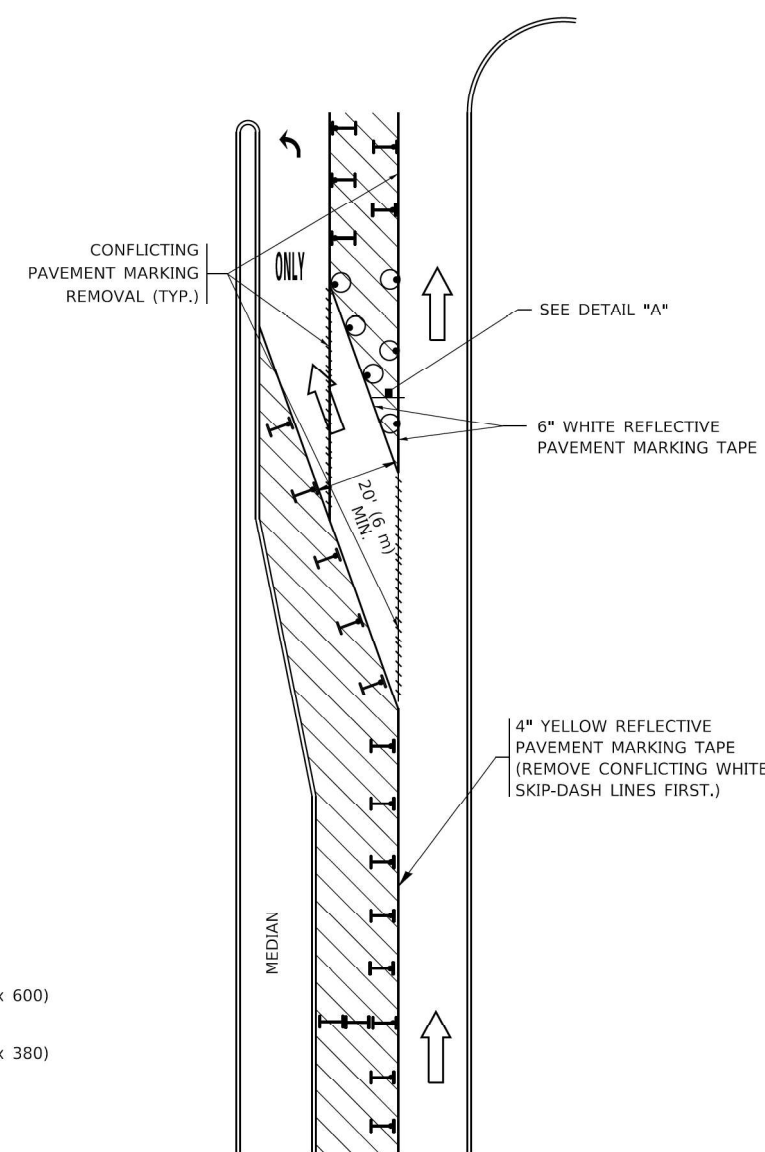
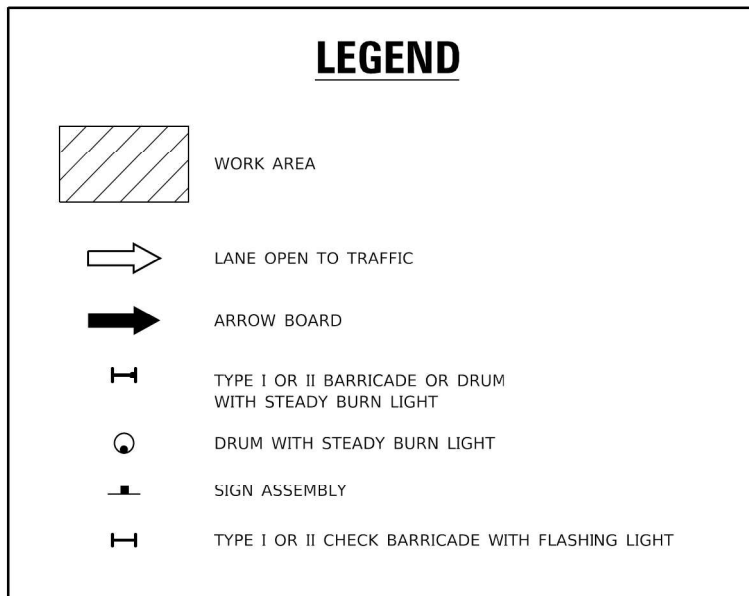
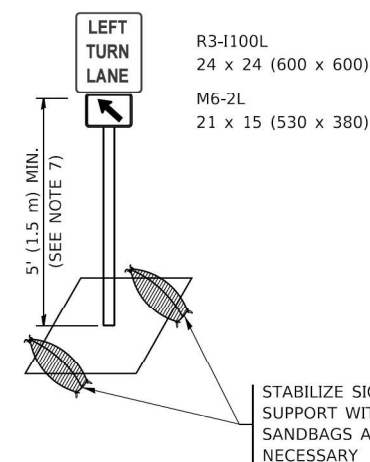


FIGURE 2



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

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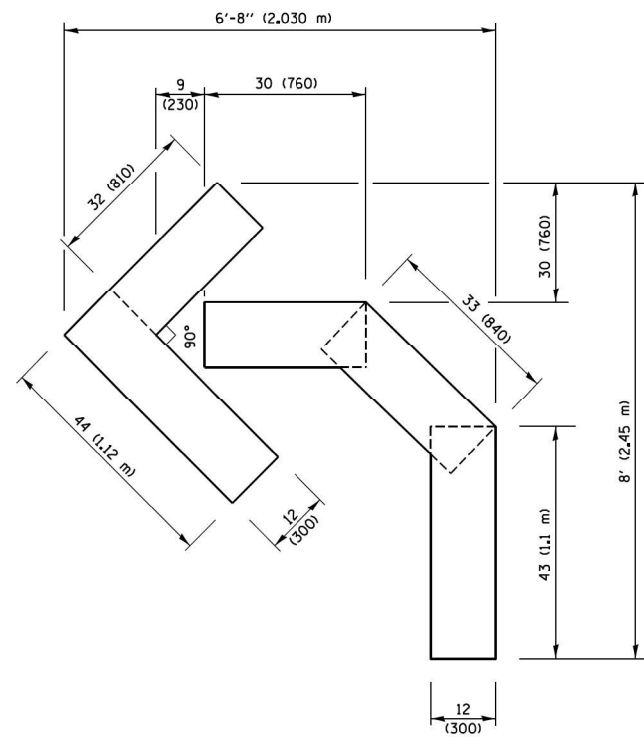
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000' / 1 in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

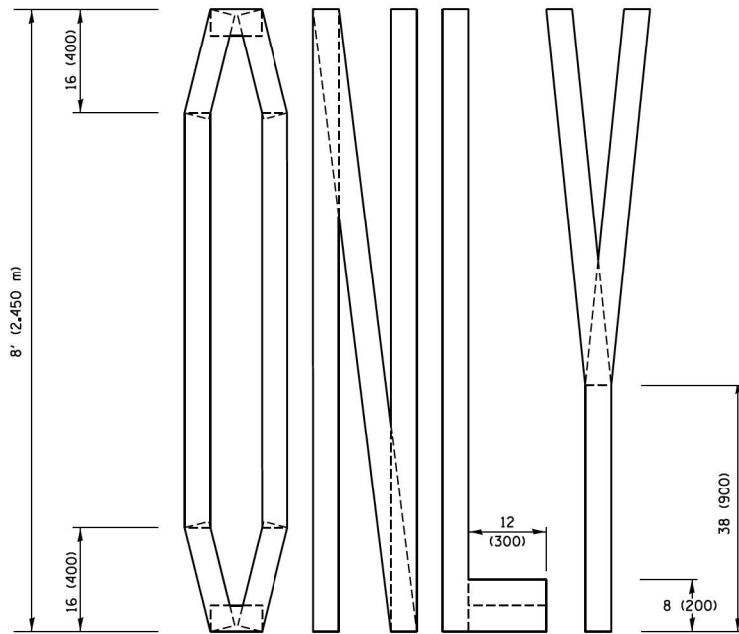
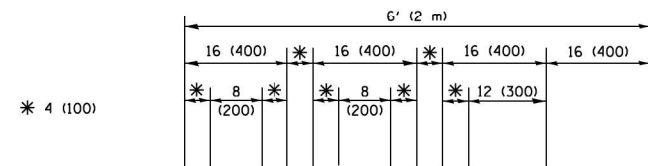
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	113
TC-14		CONTRACT NO. 62J26		
ILLINOIS FED. AID PROJECT				



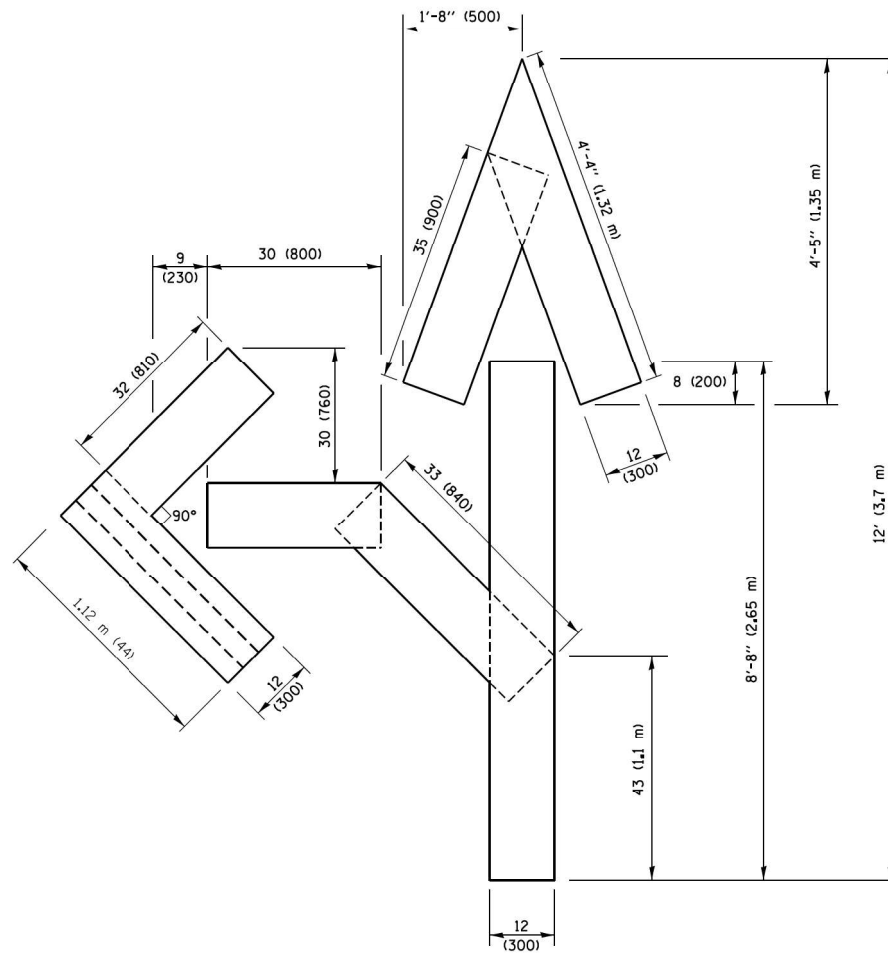
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

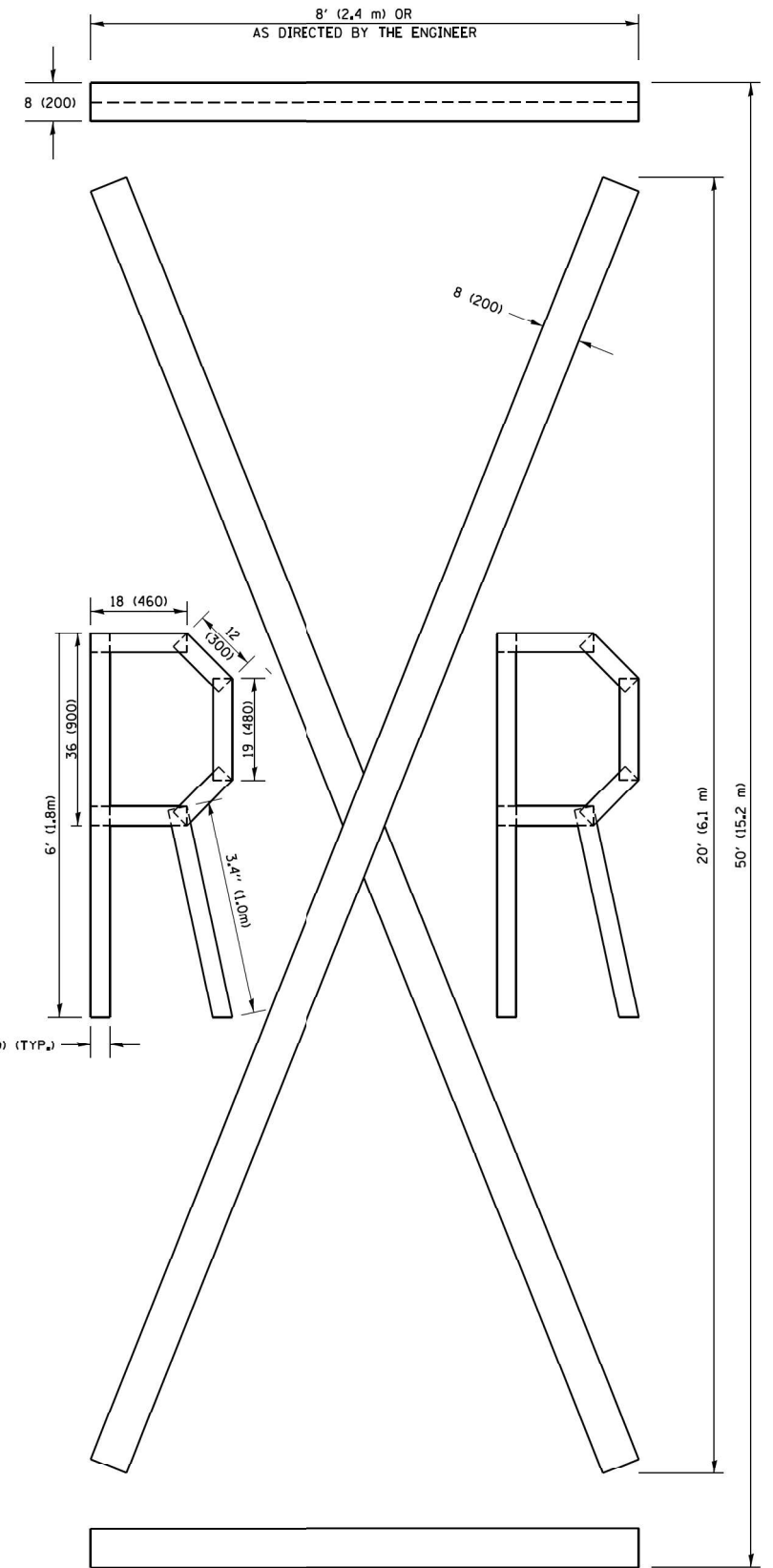


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = foatemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw1\1L084E8IDINTEG\illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist	DRWN\CADDData\CADsheets\tcl16.dgn	CHECKED -	REVISED - E. GOMEZ 08-28-00
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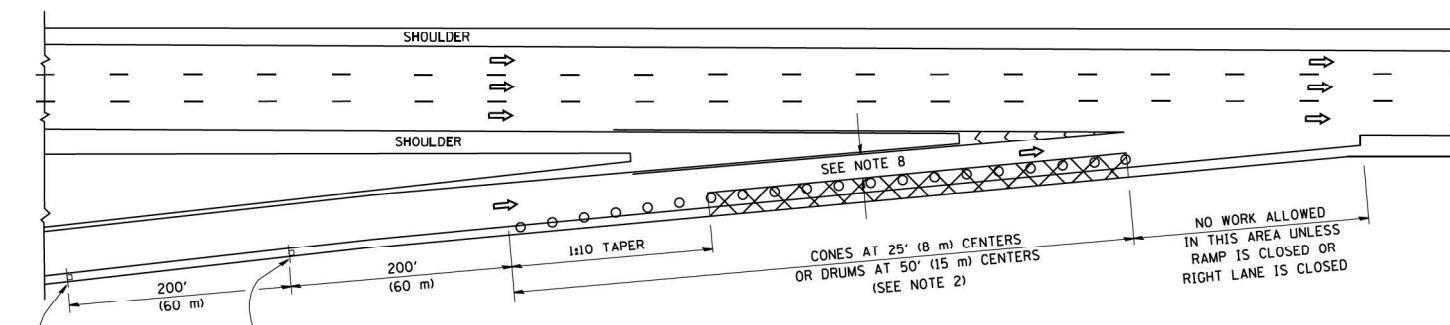
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

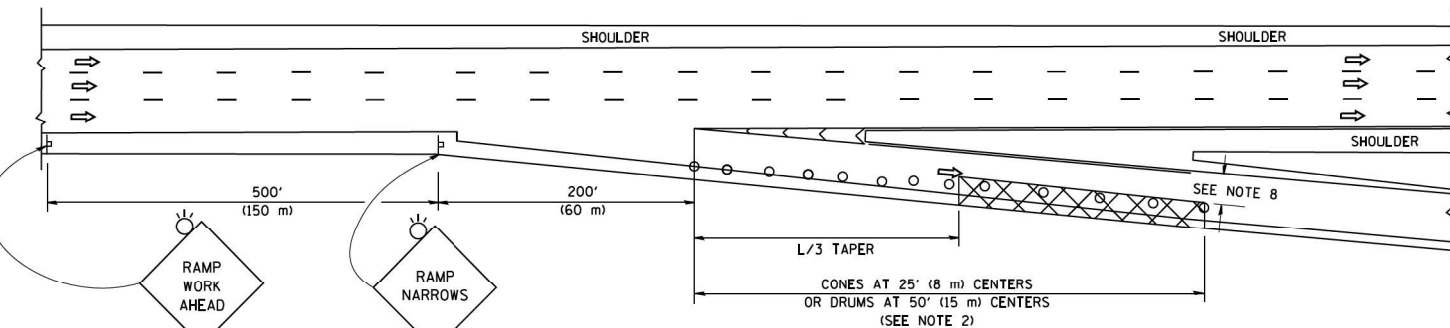
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TC-16		CONTRACT NO. 62J26		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

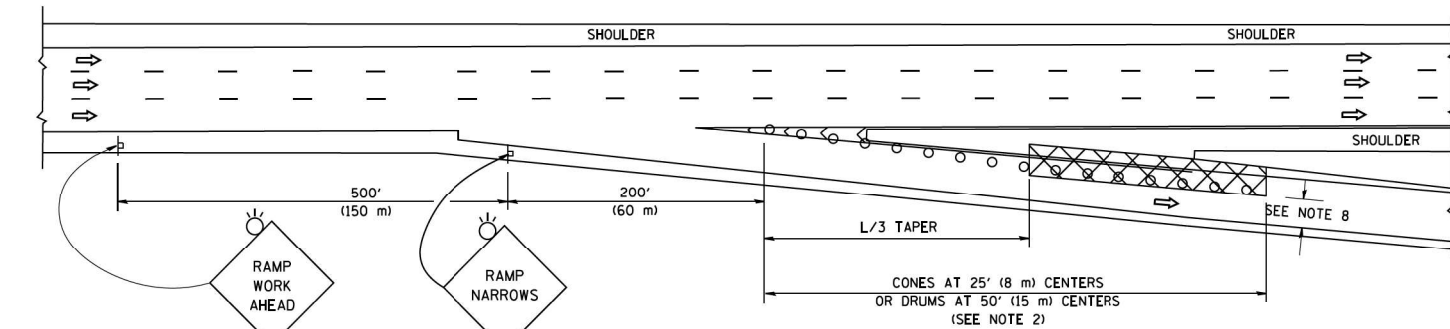
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

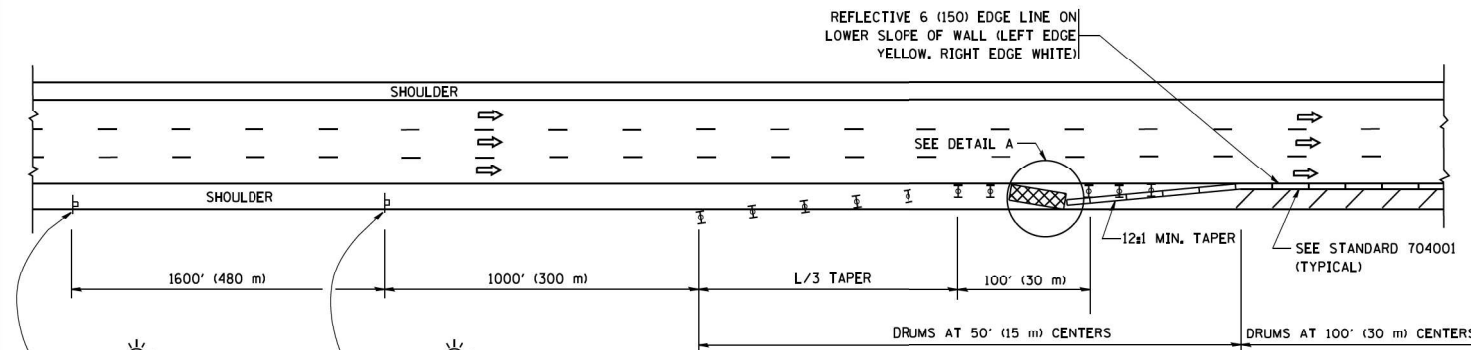
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

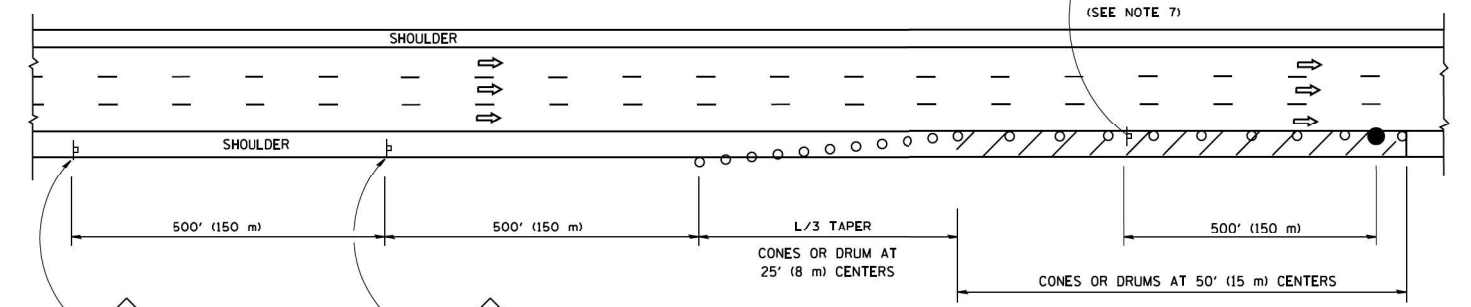
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)	
2. 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.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

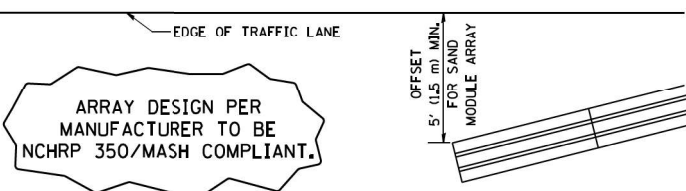


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

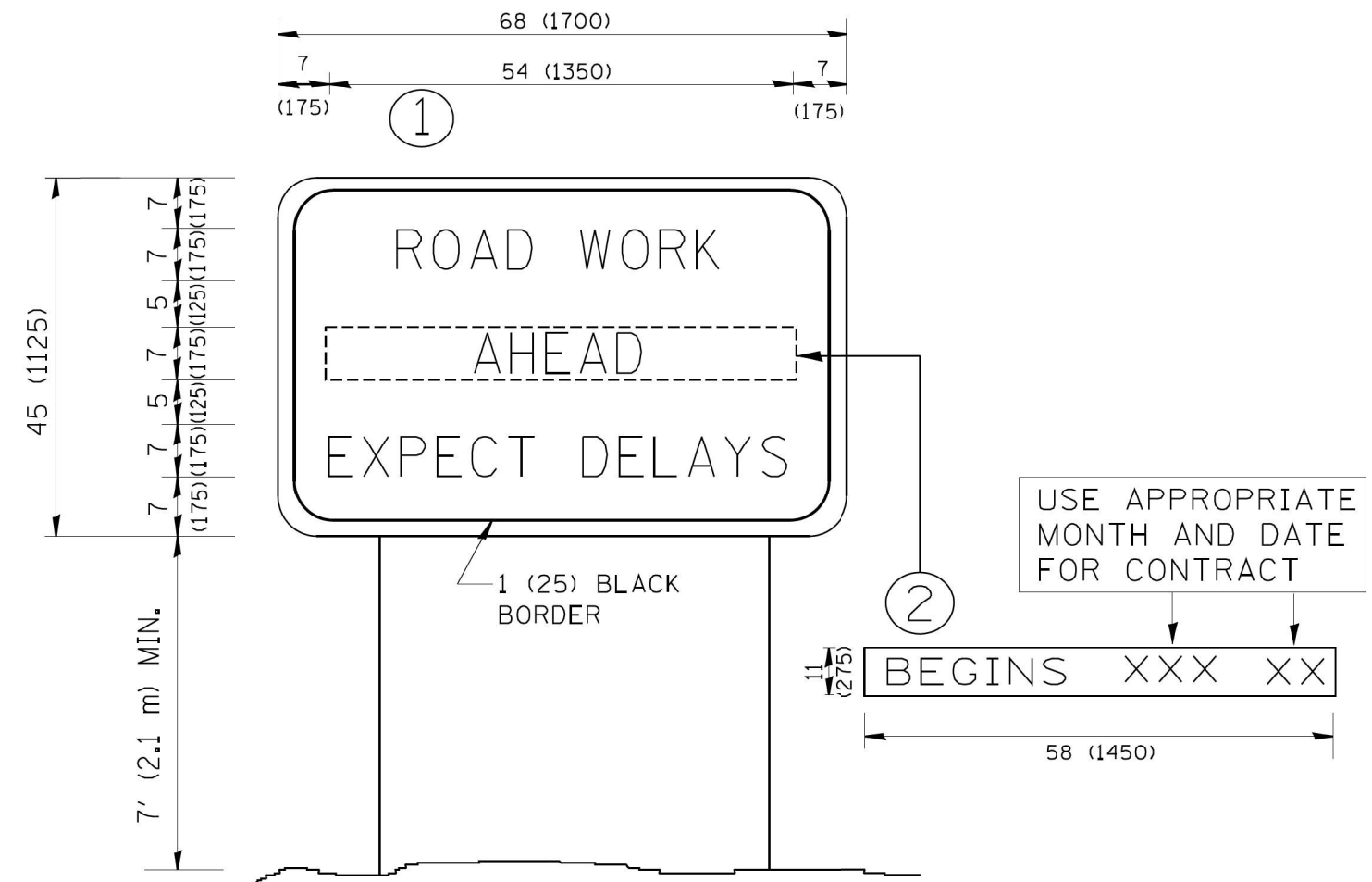
THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

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

FILE NAME =	USER NAME = faatemj	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - S.P.B. 12-09			346	2019-049-T	LAKE	139	115	
		CHECKED -	REVISED - M.D. 06-13			TC-17		CONTRACT NO. 62J26			
		DATE - 11-96	REVISED - M.D. 01-18			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

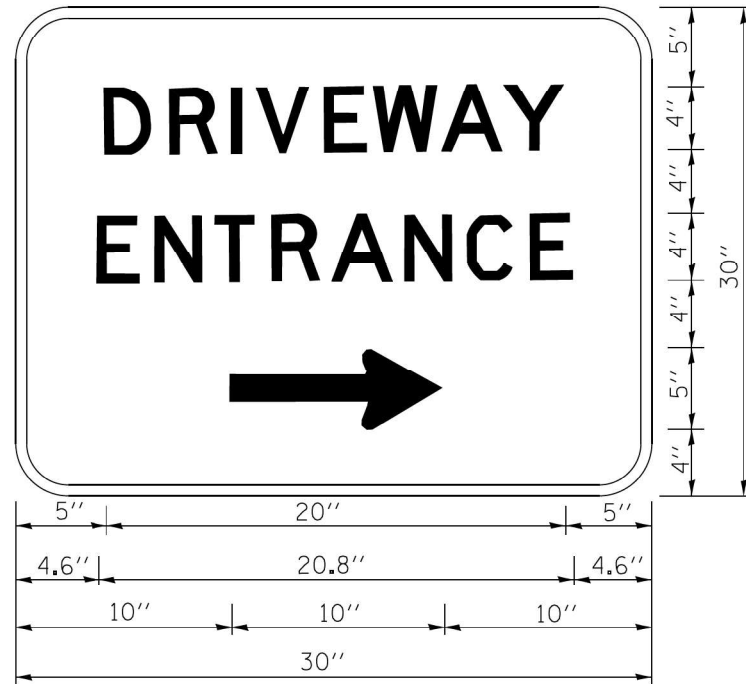


NOTES:

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

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

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO. 62J26
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = geglennob	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ca\pw\work\pwidot\geglennob\d0108315\to26.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

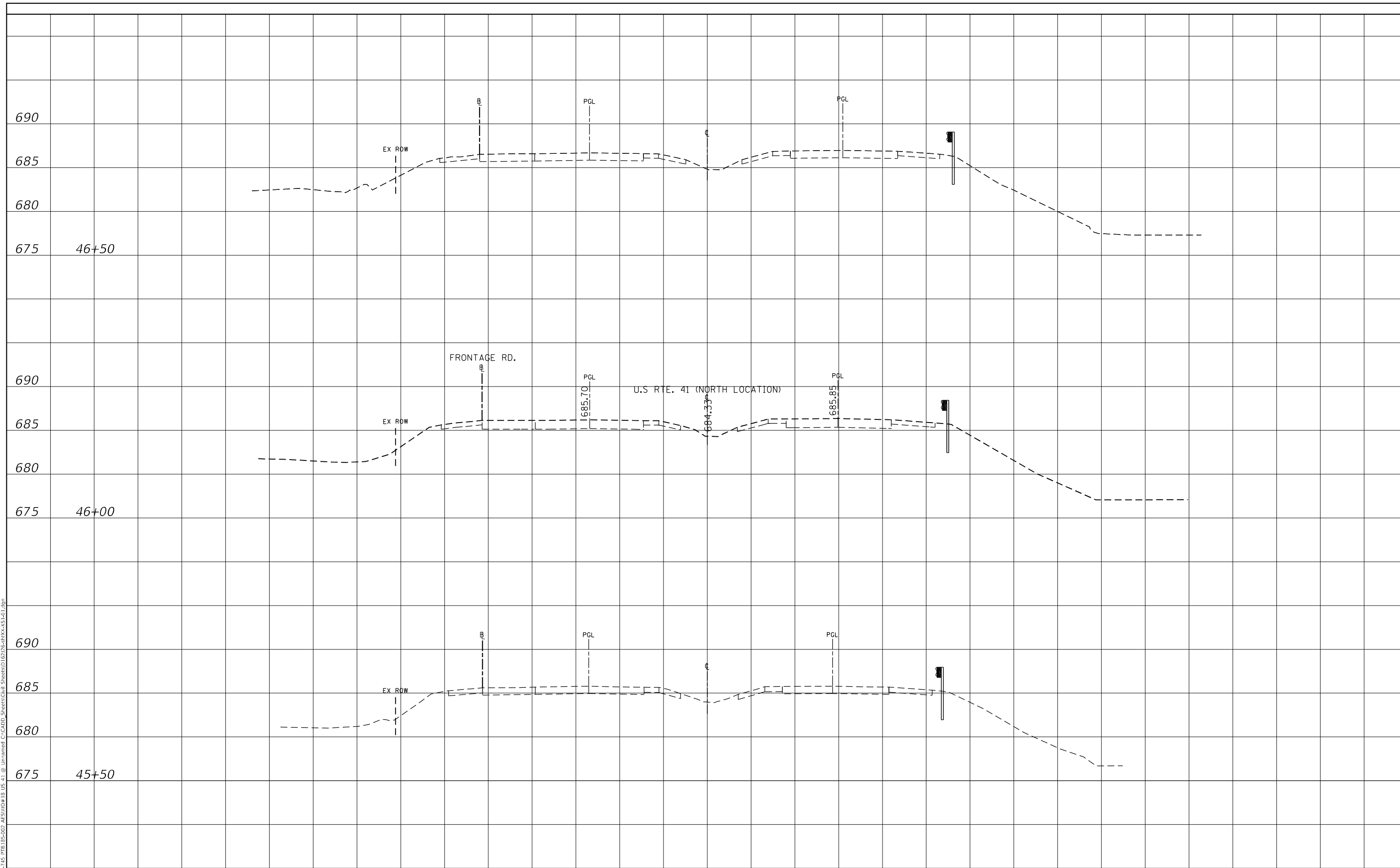
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346	2019-049-T	LAKE	139	117
TC-26			CONTRACT NO. 62J26	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
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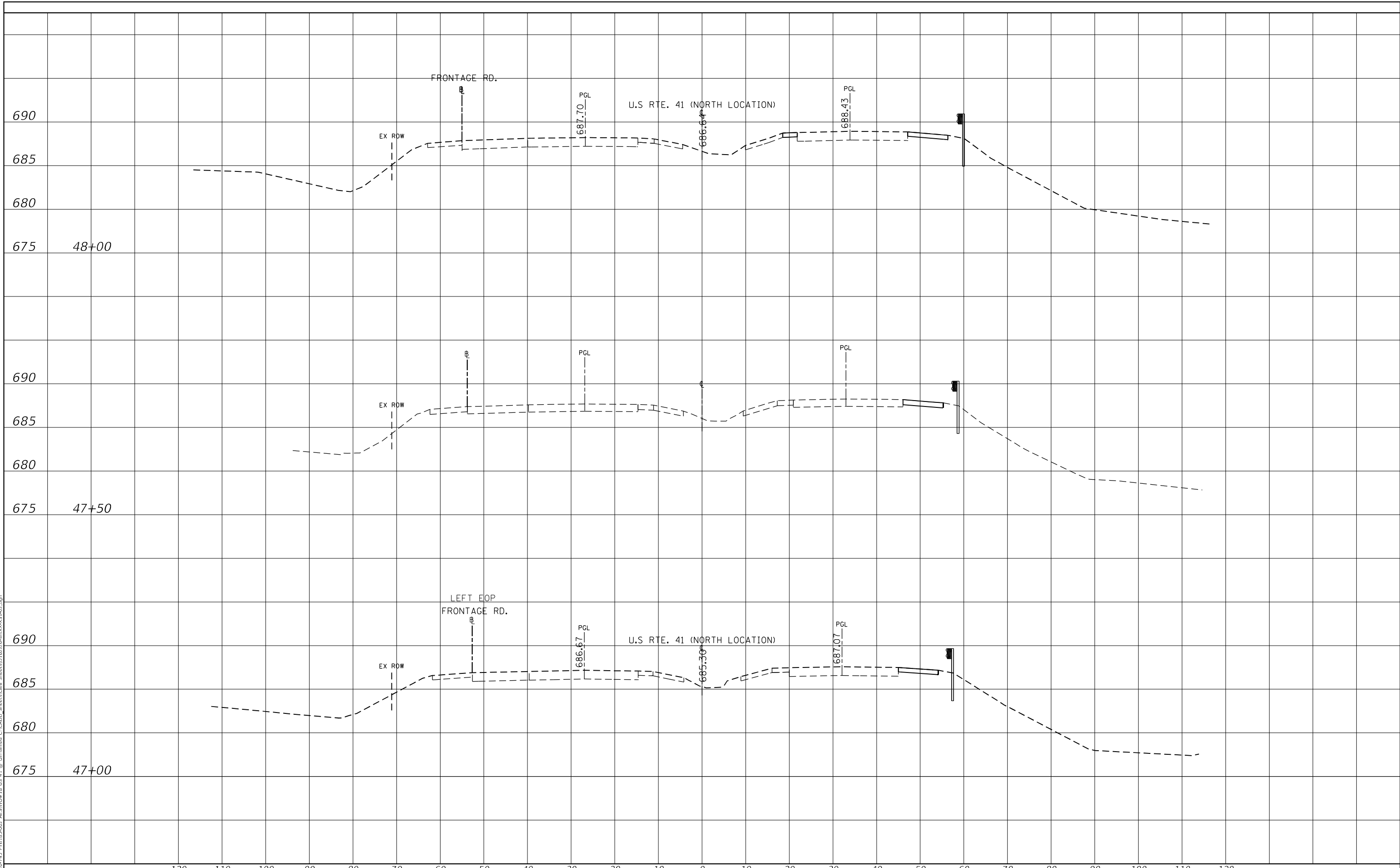
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PLOT DATE = 10/8/2020	CHECKED - JMG	REVISIED -																						
	DATE - 10/8/2020	REVISIED -																						



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	DATE - 10/8/2020	REvised -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
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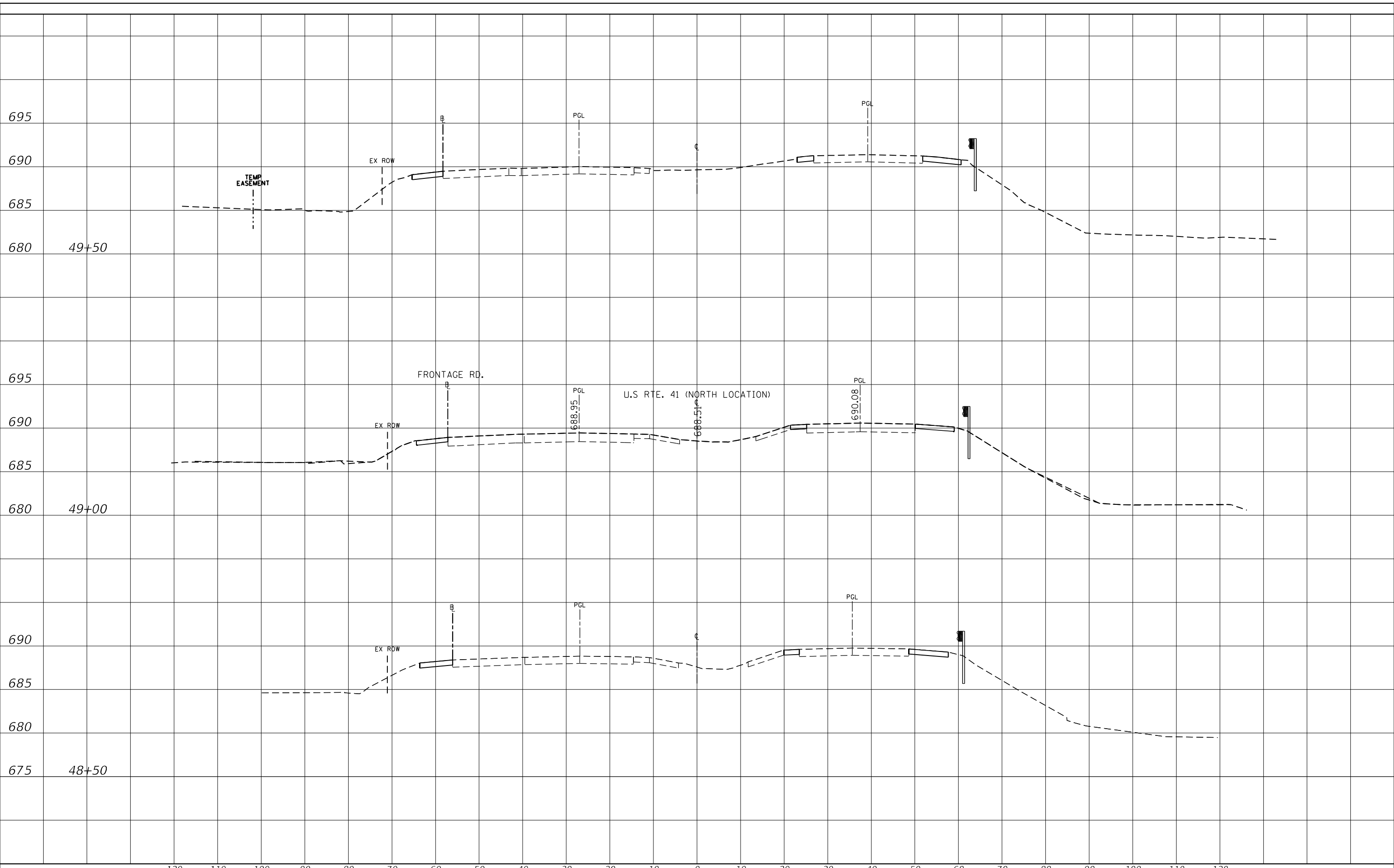
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				CONTRACT NO. 62J26
				ILLINOIS FED. AID PROJECT

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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NOTE BOOK	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LOCATION 1

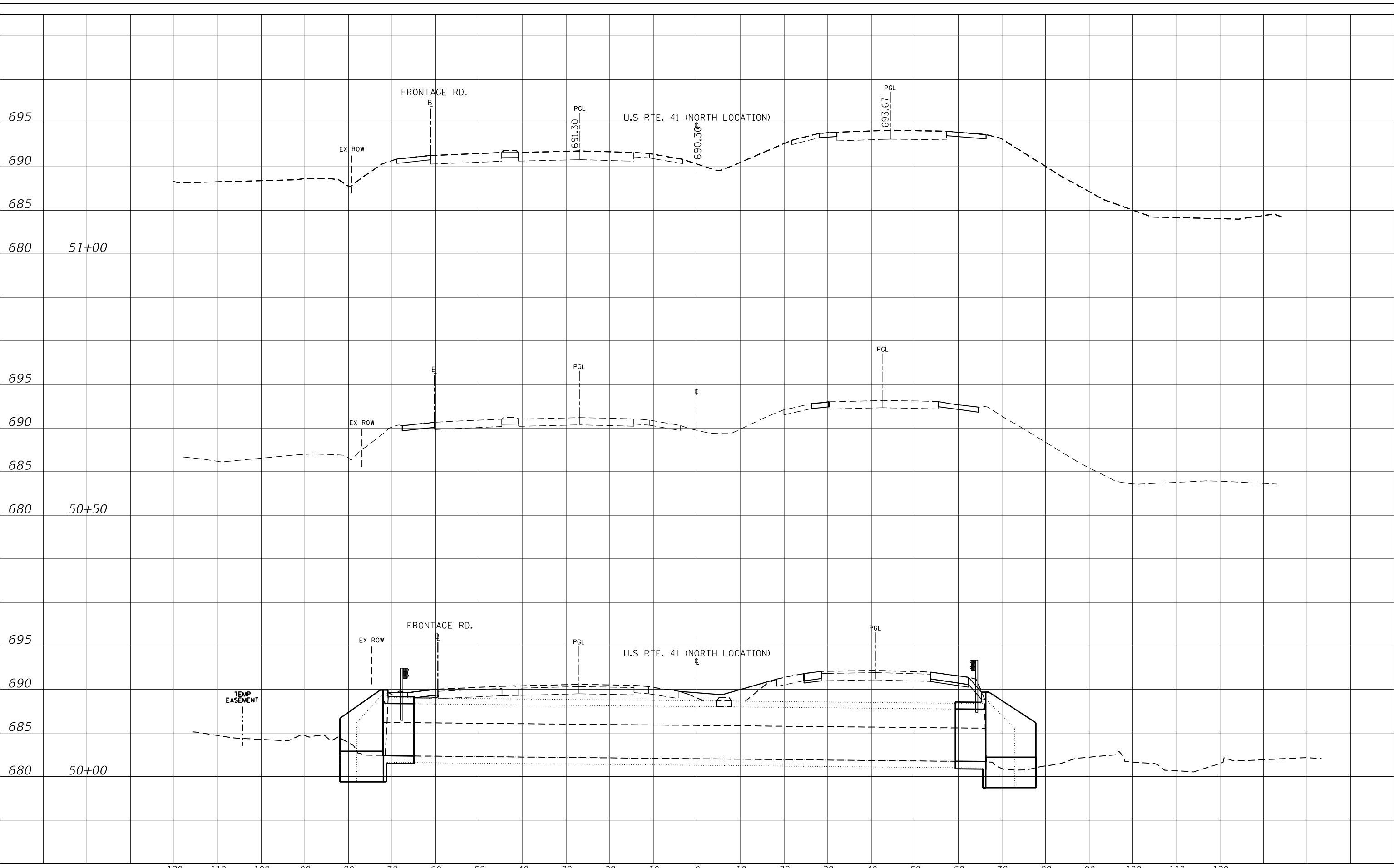
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346	2019-049-T	LAKE	139	120
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

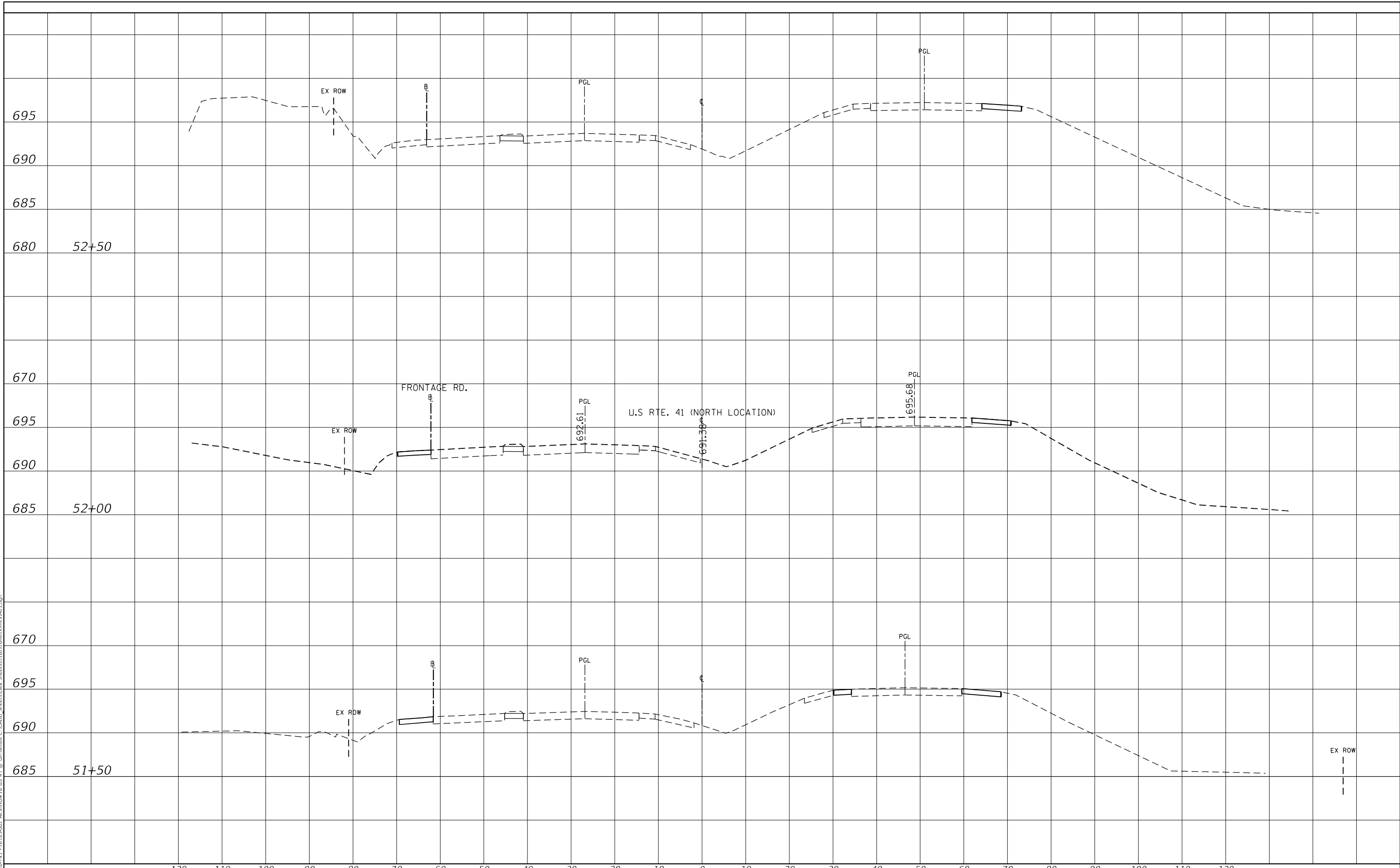
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F.A.P. RTE. 346	SECTION 2019-049-T	COUNTY LAKE	TOTAL SHEETS 139	SHEET NO. 121
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
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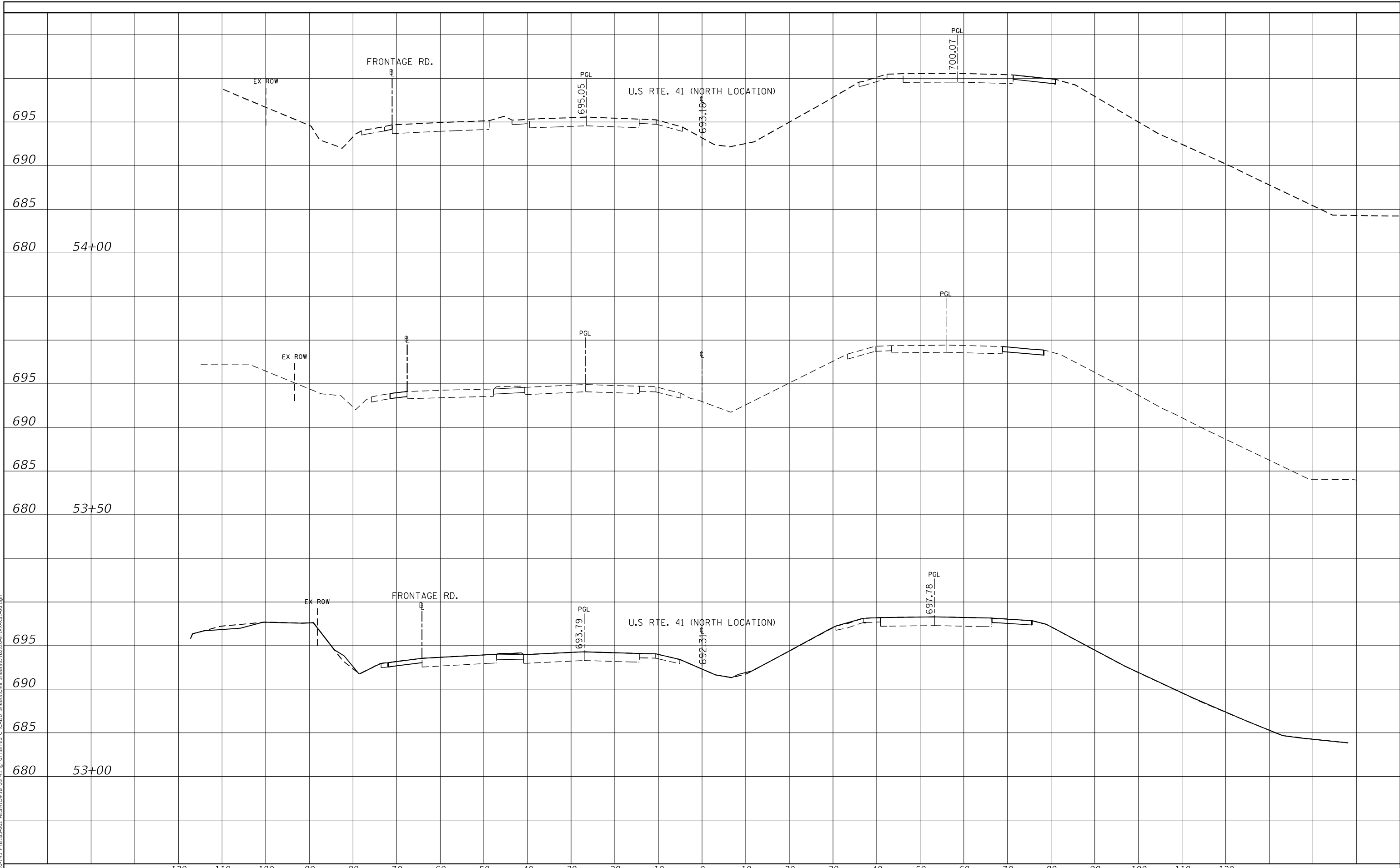
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				CONTRACT NO. 62J26
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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AREAS CHECKED	TEMPLATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 1**

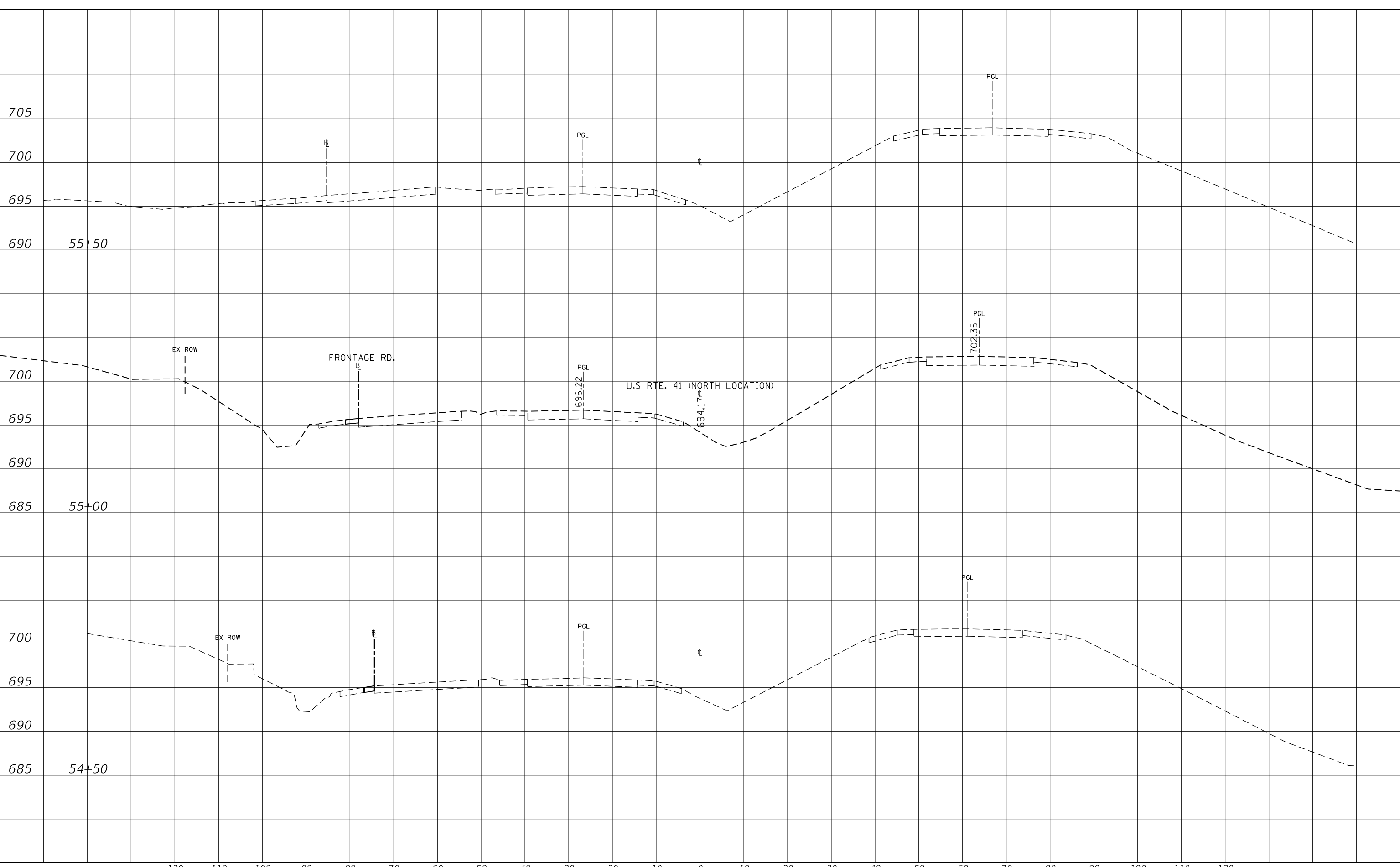
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				CONTRACT NO. 62J26
				ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 1**

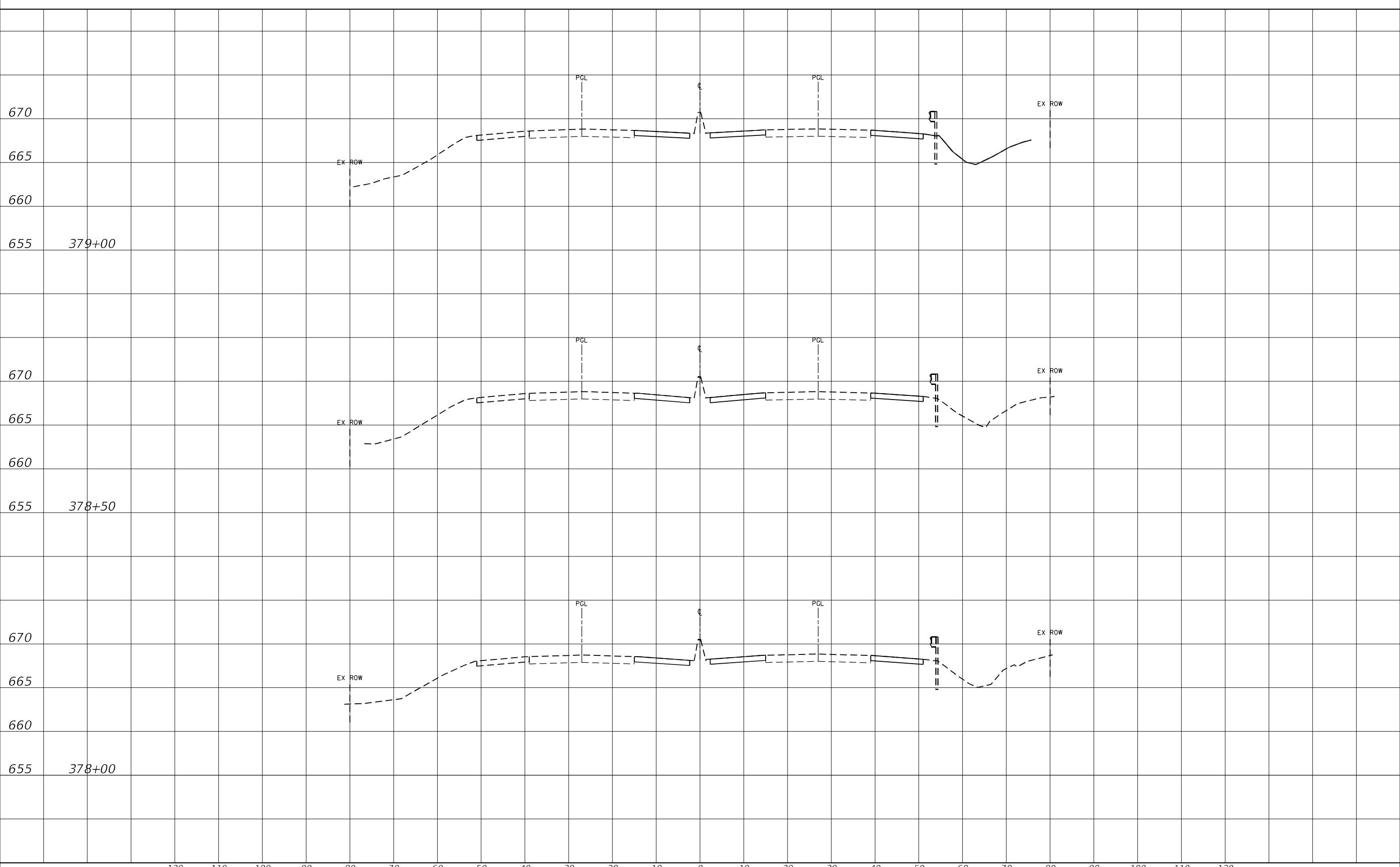
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ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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PLOT SCALE = 20,0000 * / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 2**

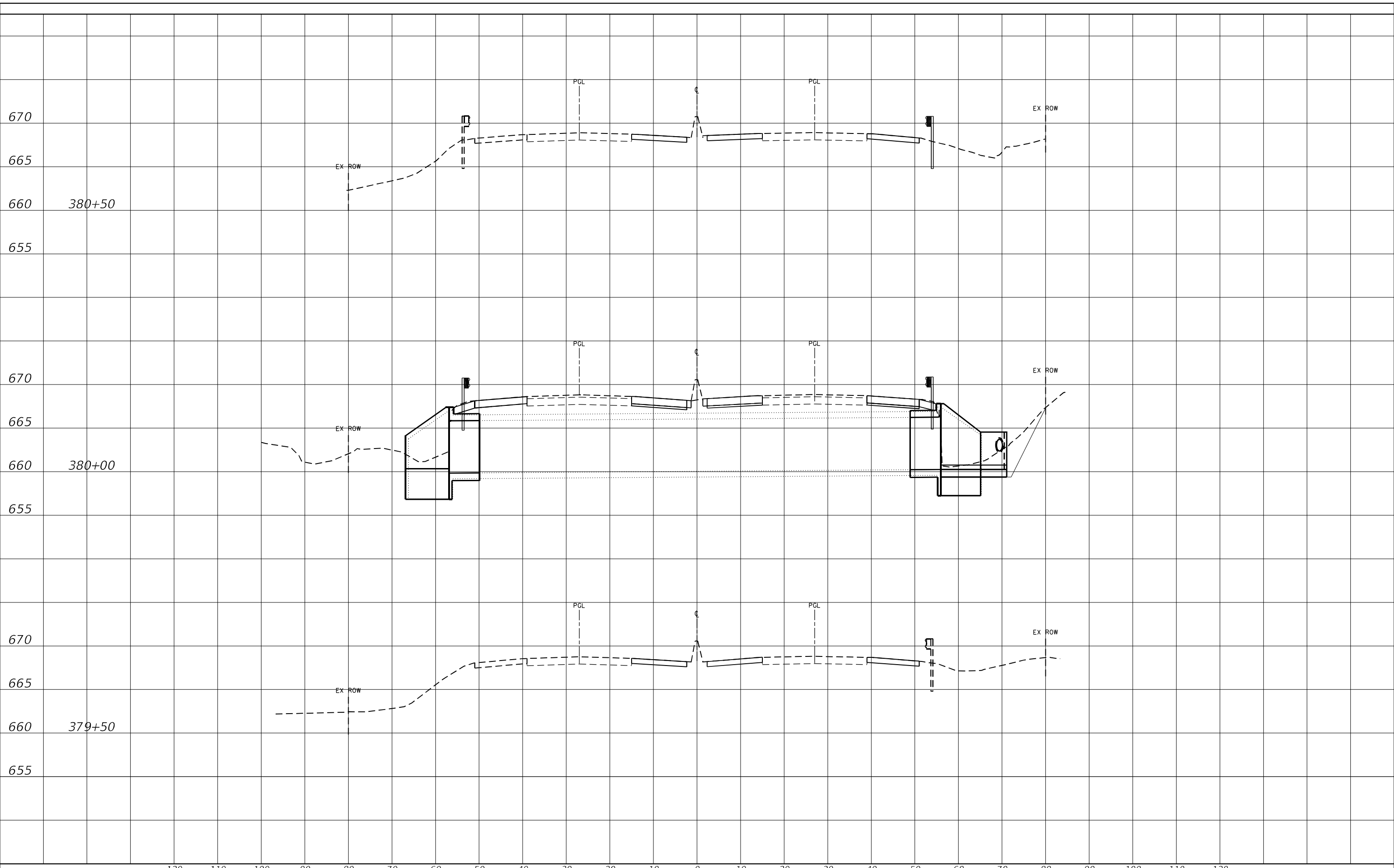
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	125
				CONTRACT NO. 62J26
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\15-215 P15-02 AFSV0418 US 41 @ Unimbed C:\CADD-Sheets\Civil Sheets\162726-strXX\X5-20.dgn



USER NAME = alljssa	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LOCATION 2**

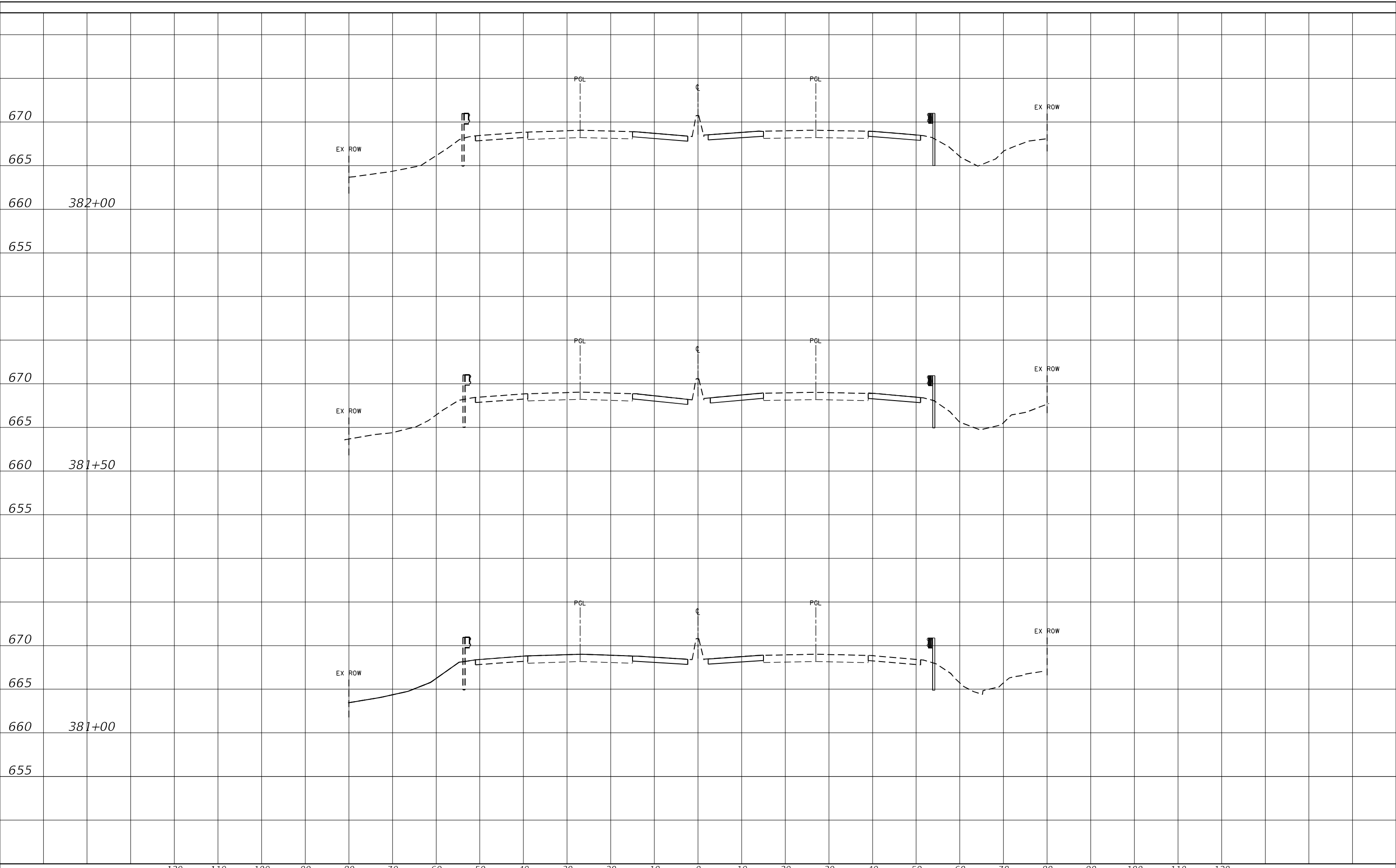
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	126
				CONTRACT NO. 62J26
				ILLINOIS FED. AID PROJECT

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

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

MODEL: Default
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120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120



USER NAME = alljssa	DESIGNED - KJD	REVISIED -
	DRAWN - KJD	REVISIED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JMG	REVISIED -
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 2**

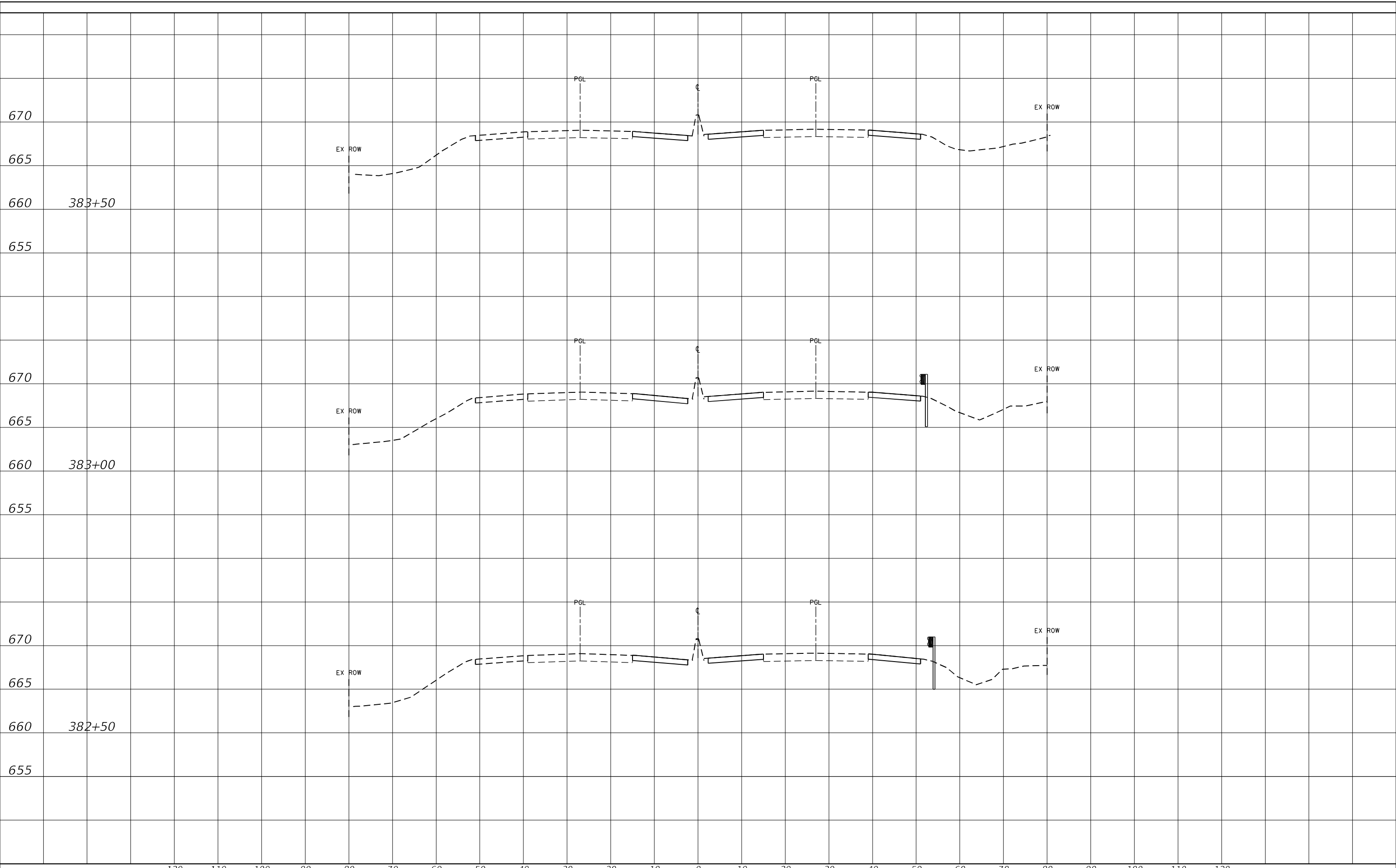
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	127
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\15-215 P15-02 AFSV0418 US 41 @ Unimbed C:\CADD-Sheets\Civil Sheets\162726-strXX-XS-04.dgn



USER NAME = alljssa	DESIGNED - KJD	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - KJD	REVISED -
PLOT DATE = 10/8/2020	CHECKED - JMG	REVISED -
	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LOCATION 2**

SCALE: SHEET OF SHEETS STA. TO STA.

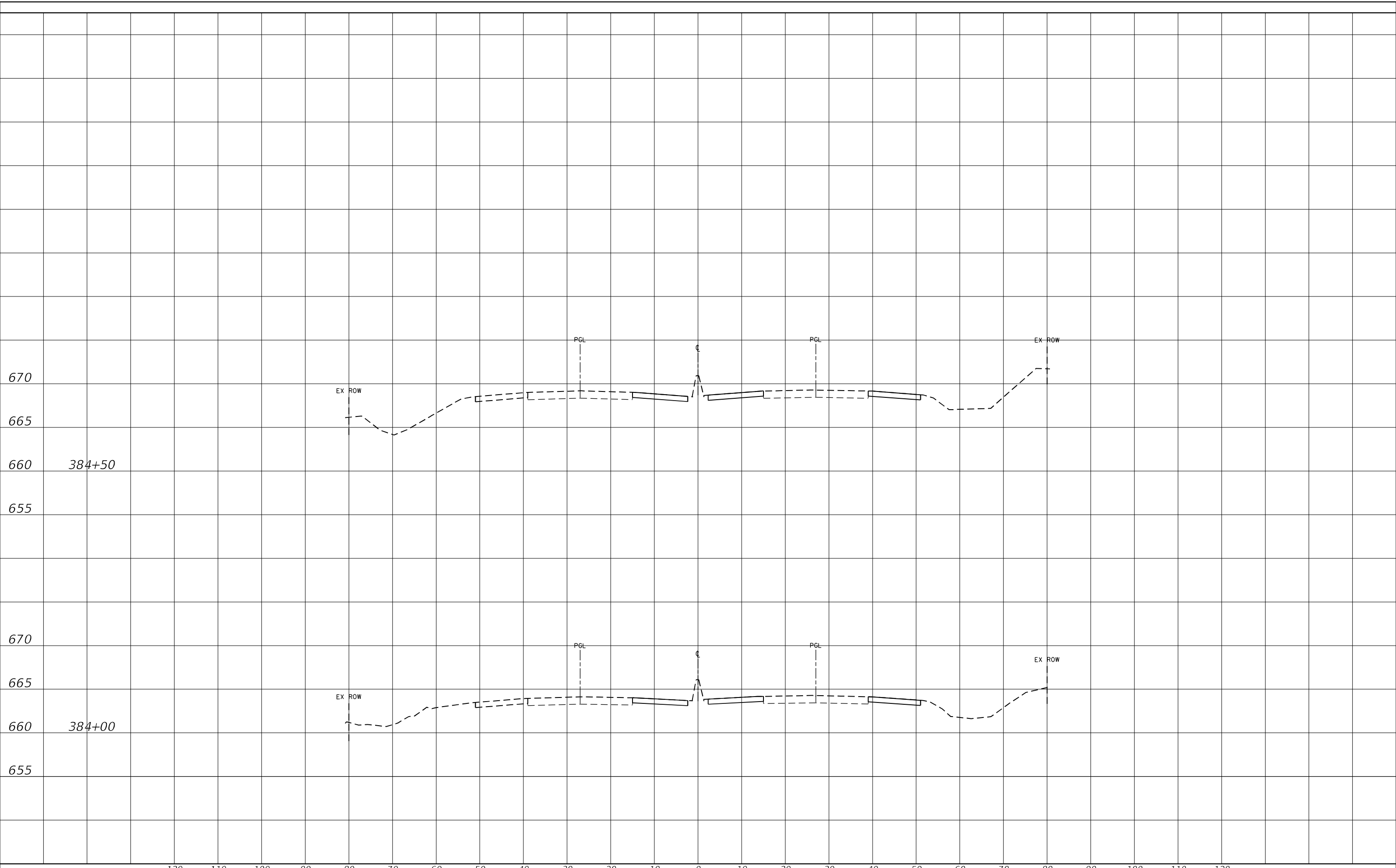
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	128
CONTRACT NO. 62J26			ILLINOIS FED. AID PROJECT	



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

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

MODEL: Default
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USER NAME = alljssa	DESIGNED - KJD	REvised -
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PLOT DATE = 10/8/2020	CHECKED - JMG	REvised -
	DATE - 10/8/2020	REvised -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 2**

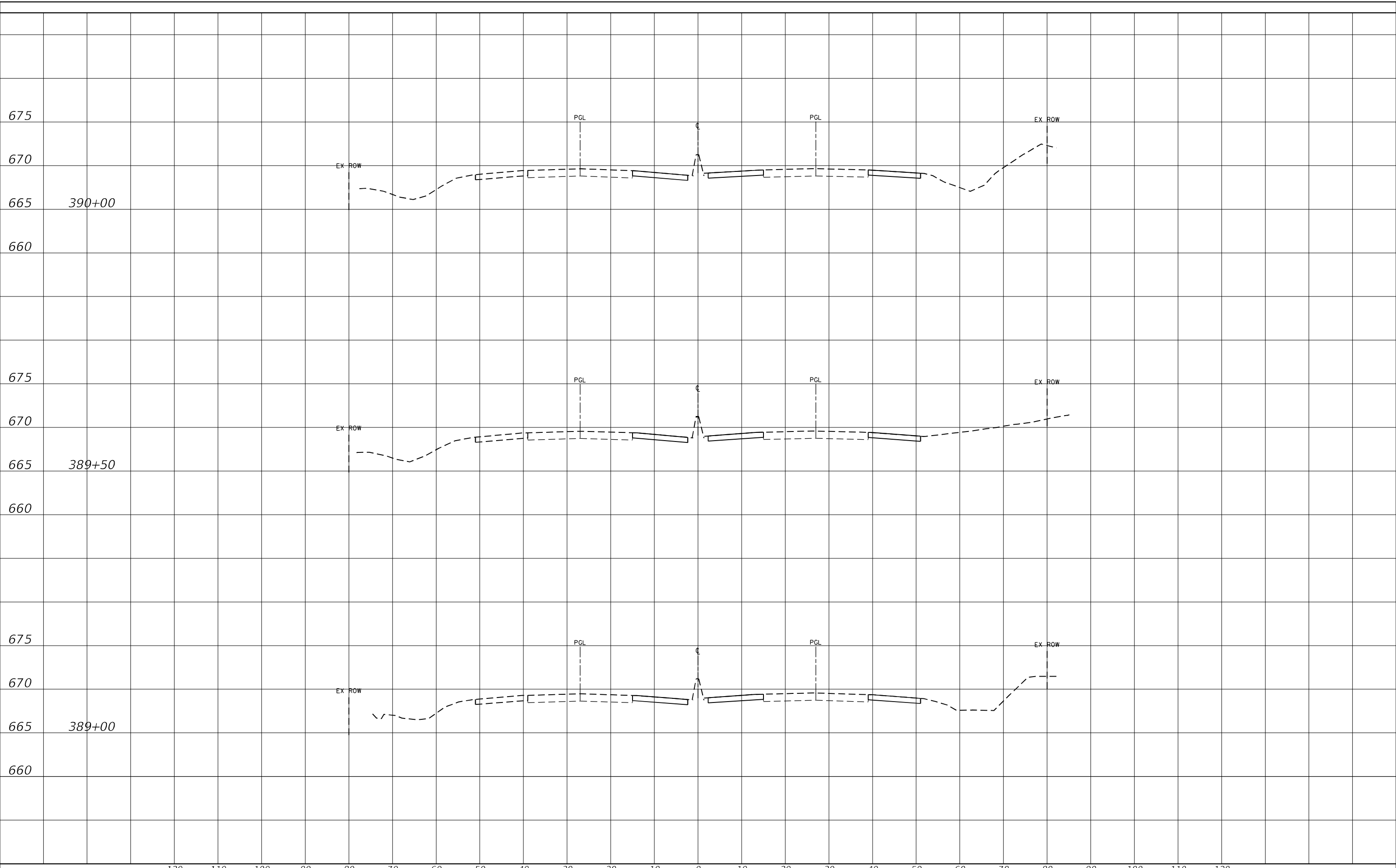
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	129
				CONTRACT NO. 62J26
				ILLINOIS FED. AID PROJECT

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

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

MODEL: Default
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120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120



USER NAME = alljssa	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 3**

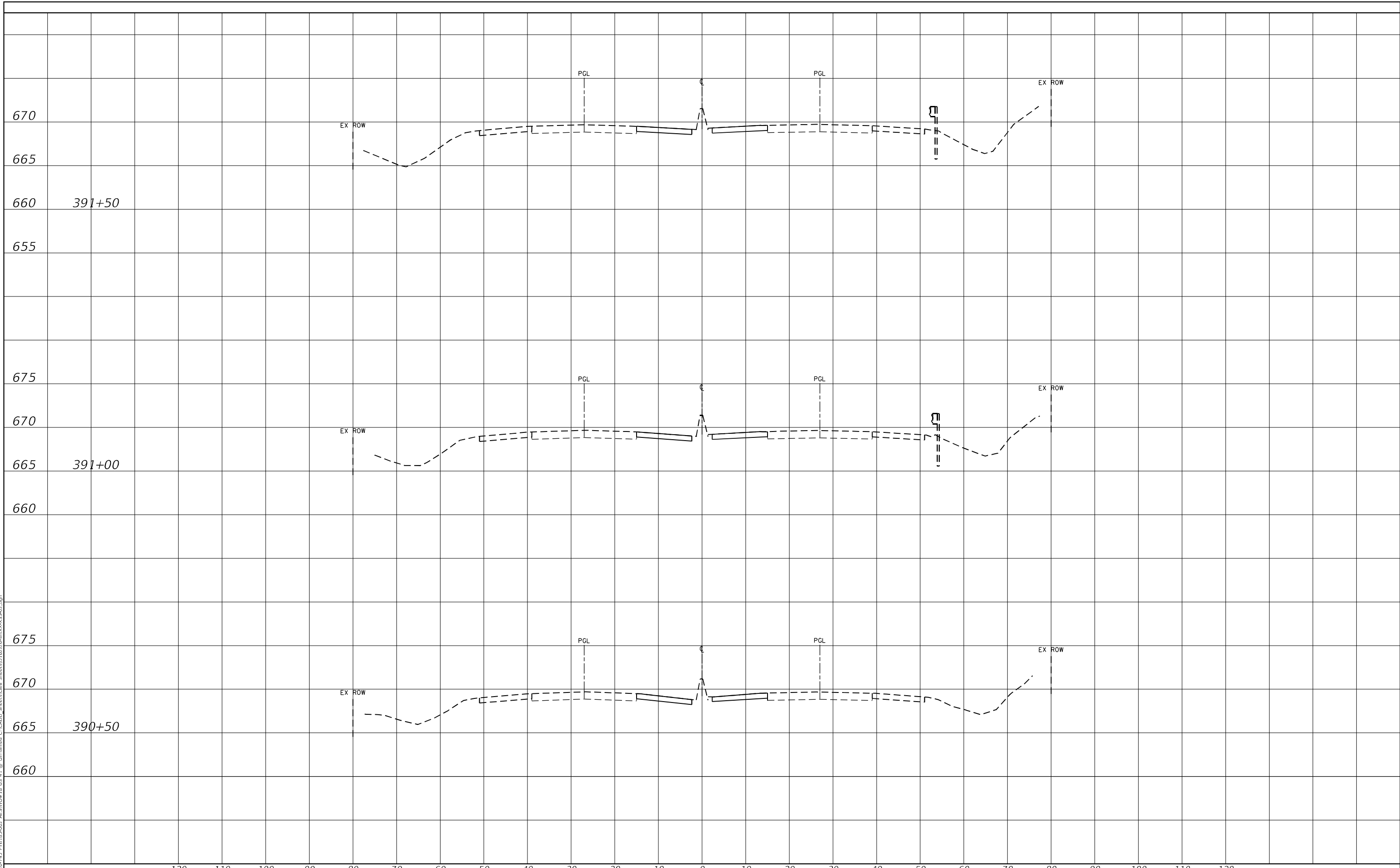
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	130
				CONTRACT NO. 62J26
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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USER NAME = alljssa				DESIGNED - KJD	REVISIED -																			
DRAWN - KJD				REVISIED -																				
PLOT SCALE = 20,0000 * / in.				CHECKED - JMG	REVISIED -																			
PLOT DATE = 10/8/2020				DATE - 10/8/2020	REVISIED -																			



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LOCATION 3

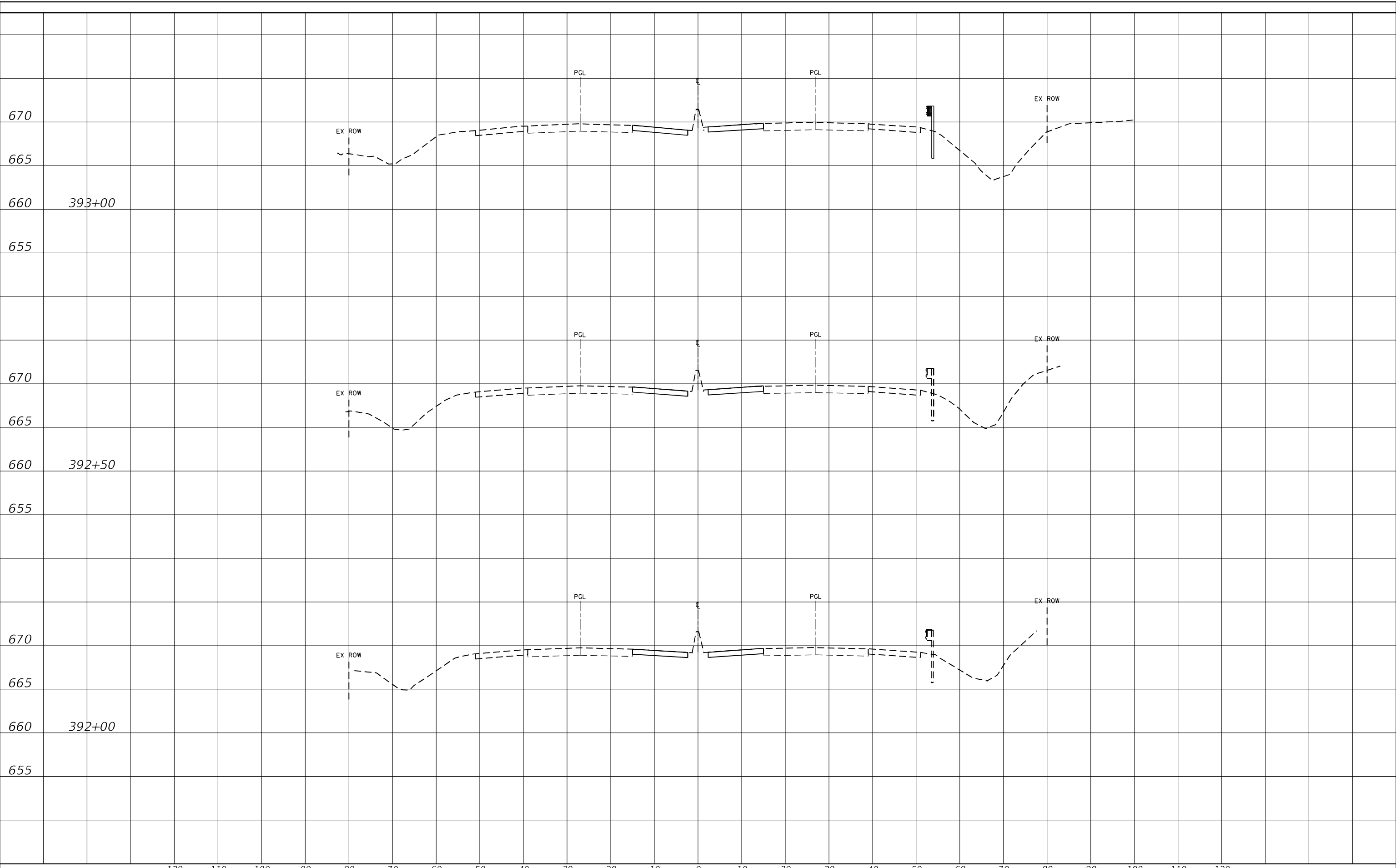
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	131
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J26	

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

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

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USER NAME = alljssa	DESIGNED - KJD	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - KJD	REVISED -
PLOT DATE = 10/8/2020	CHECKED - JMG	REVISED -
	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 3**

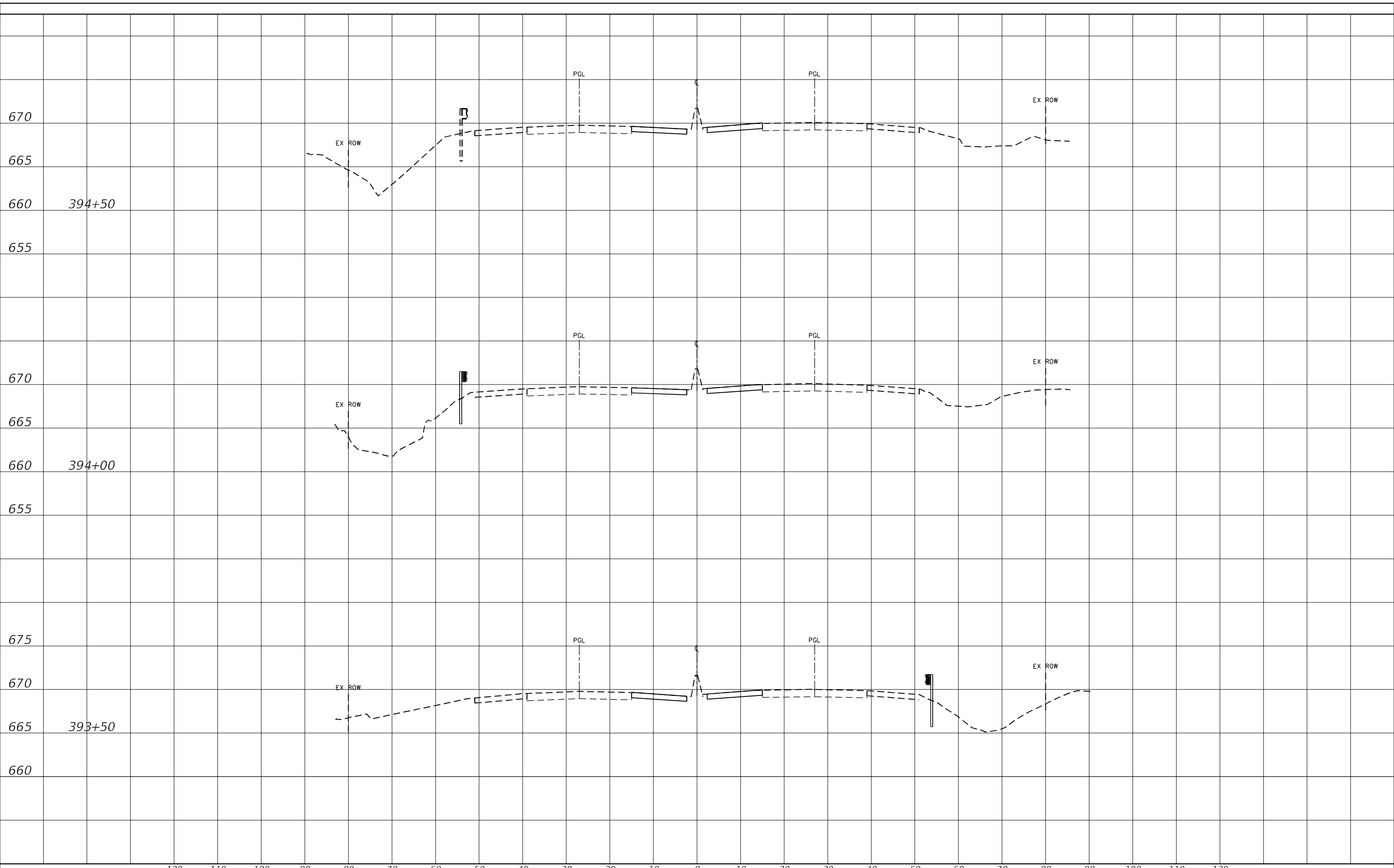
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	132
				CONTRACT NO. 62J26
				ILLINOIS FED. AID PROJECT

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

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

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USER NAME = alljssa	DESIGNED - KJD	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - KJD	REVISED -
PLOT DATE = 10/8/2020	CHECKED - JMG	REVISED -
	DATE - 10/8/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LOCATION 3**

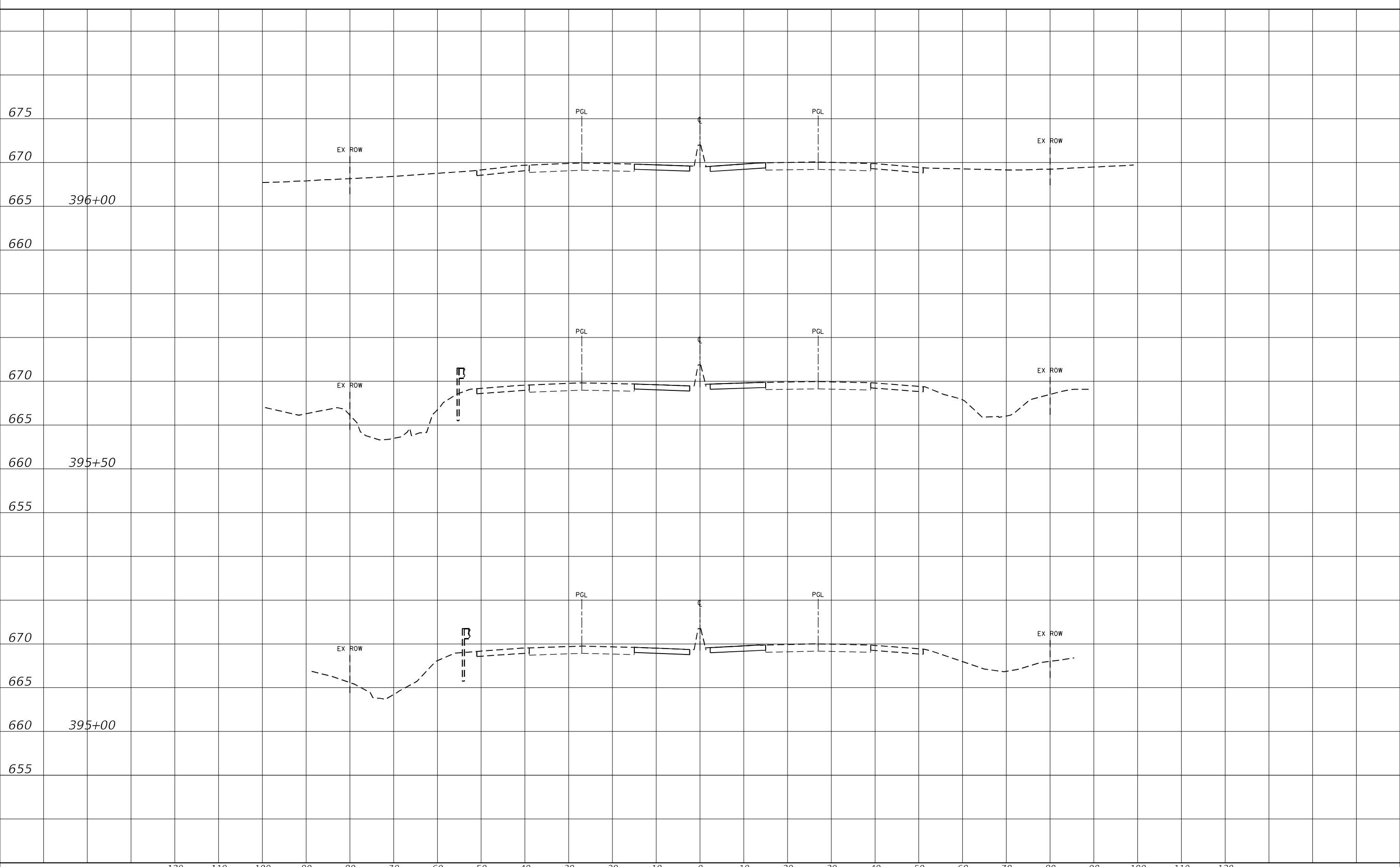
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	133
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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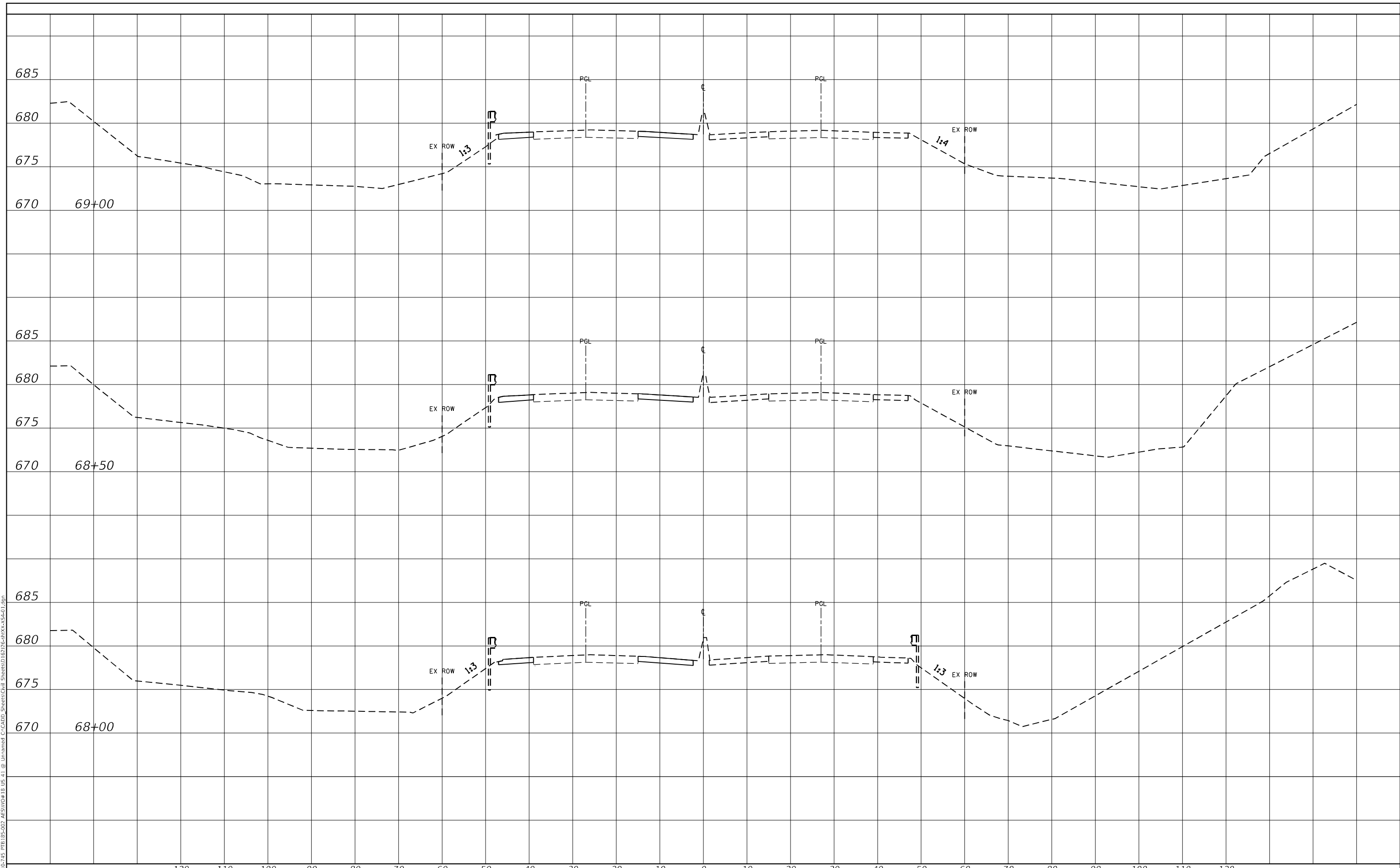
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USER NAME = alljssa												DESIGNED - KJD			REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION						CROSS SECTIONS LOCATION 3			F.A.P. RTE. 346		SECTION 2019-049-T		COUNTY LAKE		TOTAL SHEETS 139		SHEET NO. 134	
PLOT SCALE = 20,0000 * / in.												DRAWN - KJD			REVISED -									SCALE: SHEET OF SHEETS STA. TO STA.						CONTRACT NO. 62J26						
PLOT DATE = 10/8/2020												CHECKED - JMG			REVISED -									ILLINOIS FED. AID PROJECT												
DATE - 10/8/2020												DATE - 10/8/2020			REVISED -																					



DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

MODEL: Default
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USER NAME =	alljssa	DESIGNED -	KJD	REVISED -	
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PLOT DATE =	10/8/2020	DATE -	10/8/2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

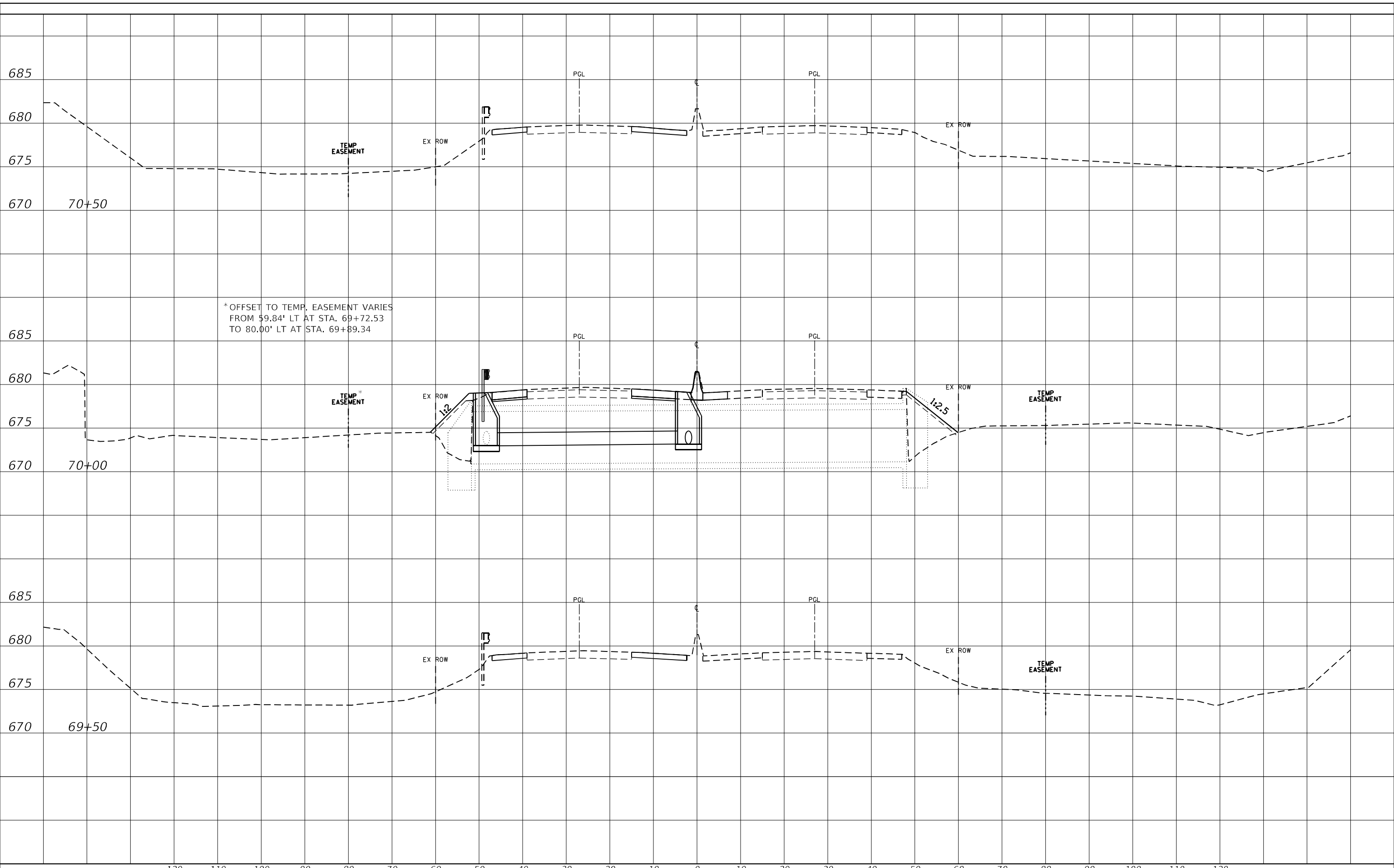
CROSS SECTIONS LOCATION 4	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	135
CONTRACT NO. 62J26				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

MODEL: Default
 FILE NAME: P:\12-15 P18-02 AFSV0418 US 41 @ Unbanded C-CADD-Sheets\Civil Sheets\0162726-StrXX-S4-02.dgn



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USER NAME = alljssa	DESIGNED - KJD	REVISD -																					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.													
DRAWN - KJD	REVISD -																																									
PLOT SCALE = 20,0000 * / in.	CHECKED - JMG	REVISD -																																								
PLOT DATE = 10/8/2020	DATE - 10/8/2020	REVISD -																																								



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

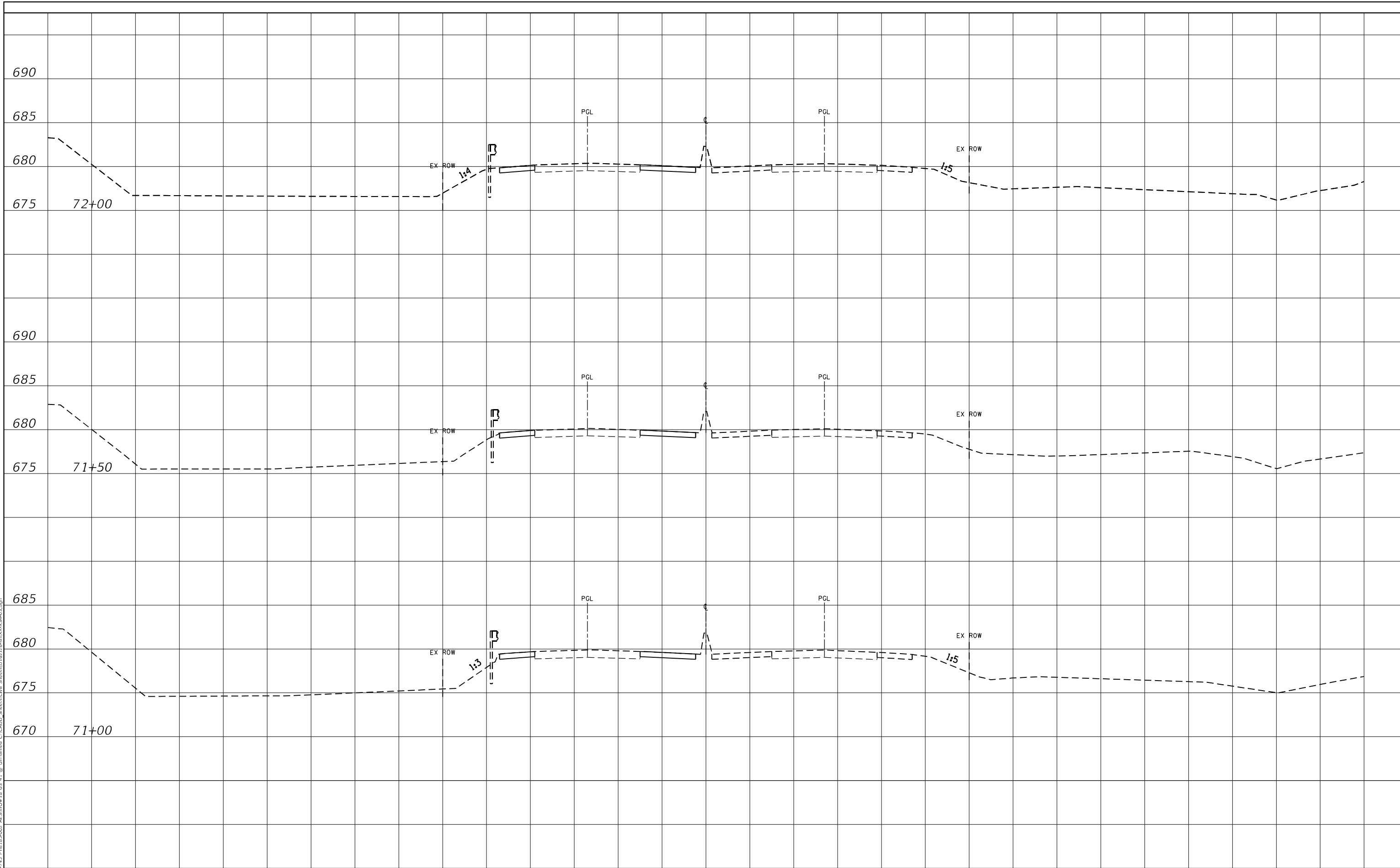
CROSS SECTIONS
 LOCATION 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	136
			CONTRACT NO. 62J26	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: P:\15-715 P15-185-02 AFSV0418 US 4 @ Unbanded C-CADD-Sheets\Civil Sheets\0162726-drx\X4-403.dgn



USER NAME =	allissa	DESIGNED -	KJD	REVISED -	
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PLOT SCALE =	20,0000 * / in.	CHECKED -	JMG	REVISED -	
PLOT DATE =	10/8/2020	DATE -	10/8/2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LOCATION 4**

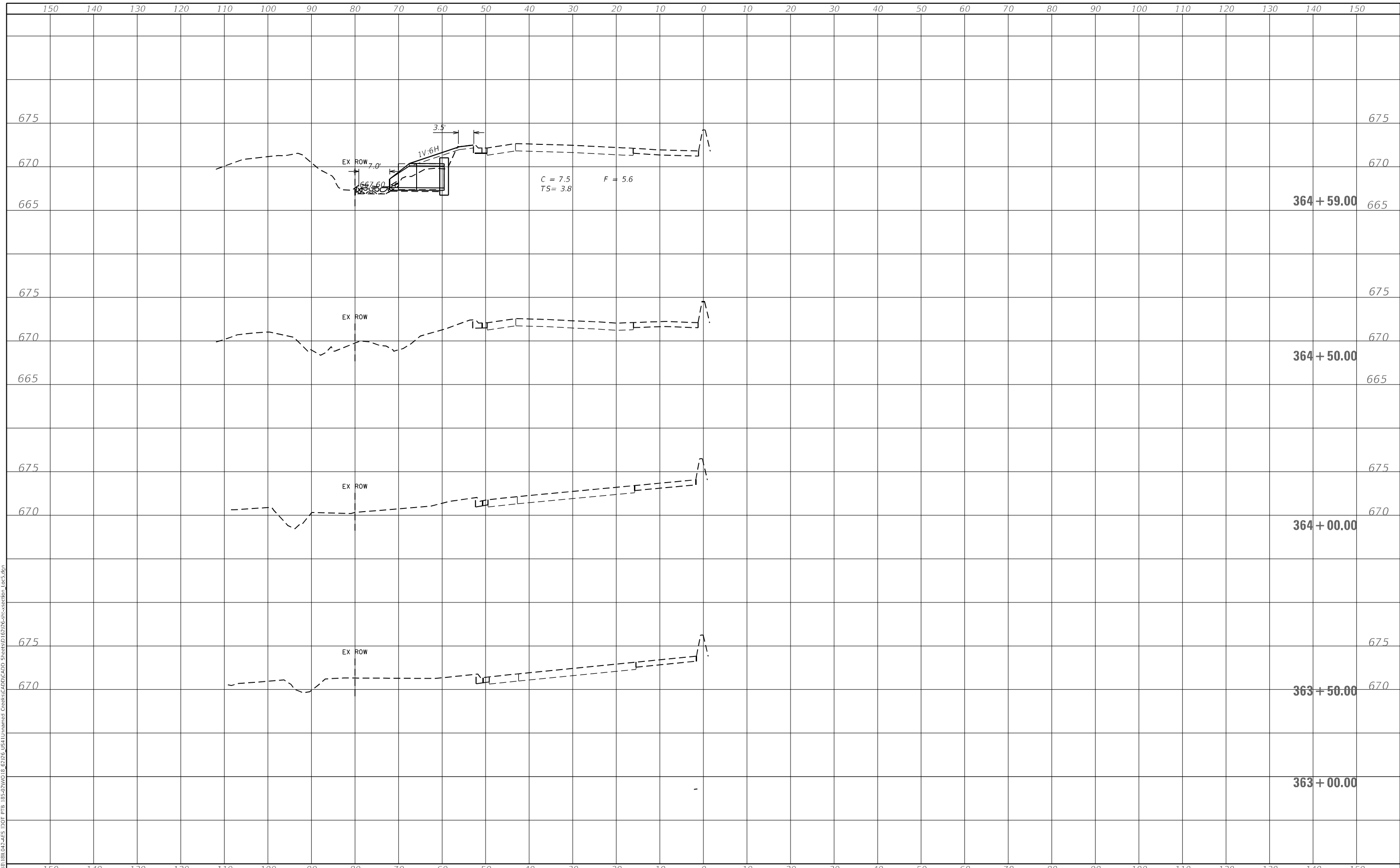
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	137
			CONTRACT NO. 62J26	
			ILLINOIS FED. AID PROJECT	

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

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

MODEL: Default
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USER NAME = mokrent	DESIGNED - MO	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JA	REVISED -
PLOT DATE = 10/6/2020	DATE - 06/05/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 LOCATION 5**

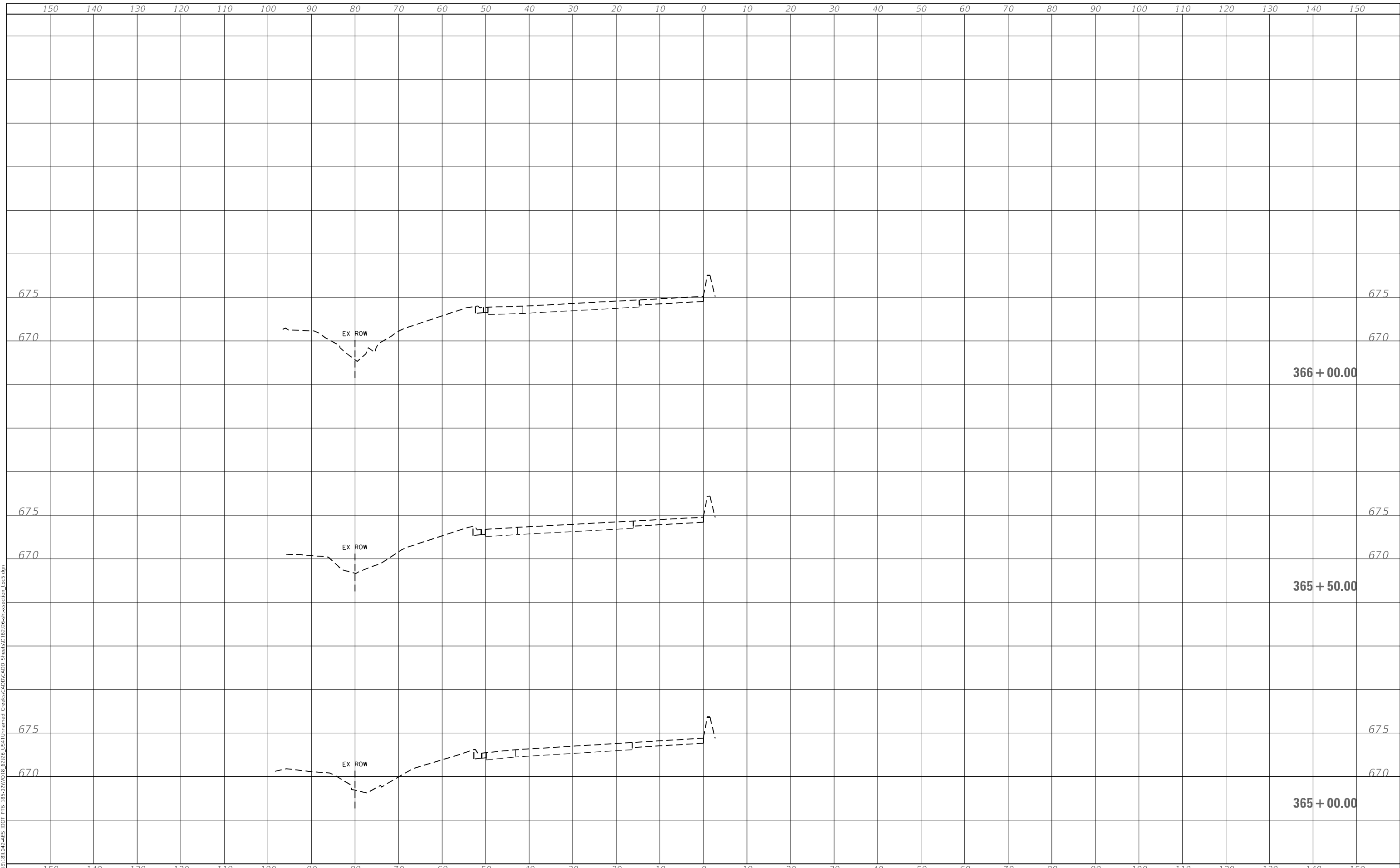
SCALE: SHEET OF SHEETS STA. 363+00.00 TO STA. 364+59.00

F.A.P/ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	138
				CONTRACT NO. 62126
				ILLINOIS FED. AID PROJECT

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

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

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	DRAWN - JS	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - JA	REVISED -
PLOT DATE = 10/6/2020	DATE - 06/06/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS LOCATION 5	
SCALE:	SHEET OF SHEETS
STA. 365+00.00 TO STA. 366+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2019-049-T	LAKE	139	139
CONTRACT NO. 62126				
ILLINOIS FED. AID PROJECT				