

018

03-08-2019 LETTING ITEM 018

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 71 + 1 = 72 TOTAL SHEETS

F.A.P. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	1
ILLINOIS CONTRACT NO. 62G48				

D-91-308-18



FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED  
HIGHWAY PLANS

FAP 336A /ILL 31 (FRONT STREET) OVER  
UNNAMED TRIBUTARY TO FOX RIVER  
SECTION 2018-056-DR-1  
PROJECT NHPP-3FRR(402)  
CULVERT REPLACEMENT  
MCHENRY COUNTY  
C-91-225-18

TRAFFIC DATA:

IL 31 (FRONT STREET)

EXISTING ADT = 18800 (2017)  
POSTED SPEED = 35 MPH

FUNCTIONAL CLASSIFICATION

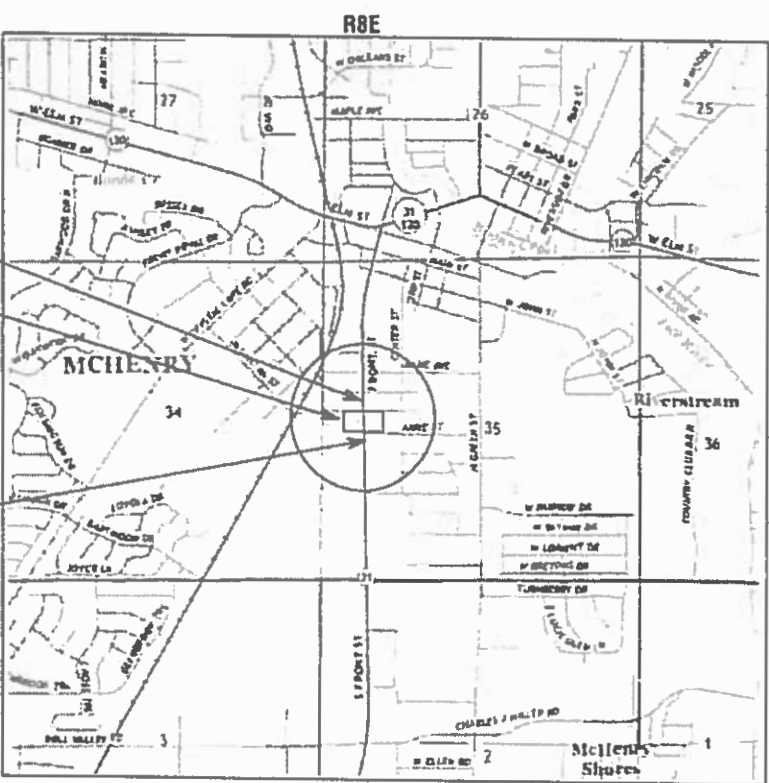
OTHER PRINCIPAL ARTERIAL

PROJECT IS LOCATED IN THE  
CITY OF MCHENRY

PROJECT LOCATION  
IL 31 OVER UNNAMED  
TRIBUTARY FOX RIVER  
EXISTING S.N. 056-0227  
PROPOSED S.N. 056-0105

IMPROVEMENT ENDS  
STA. 446 + 32.00

IMPROVEMENT BEGINS  
STA. 442 + 65.00

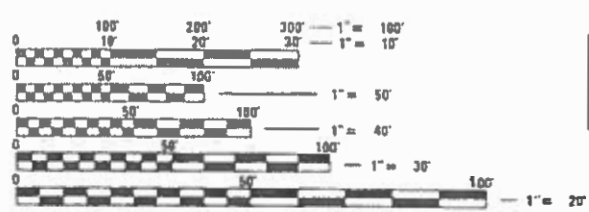


MCHENRY TOWNSHIP



AES SERVICES INC.  
SHEETS  
01-38, 53-71.  
  
M. M. Drent  
DATE: 6/15/2018  
IL. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 11/30/2019

AES SERVICES INC.  
SHEETS  
39-52.  
  
Delores Salas  
DATE: 4/8/2018  
IL. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 11/30/2020



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

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

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

CONTRACT NO. 62G48

GROSS LENGTH OF PROJECT = 367 FEET = 0.07 MILE  
NET LENGTH OF PROJECT = 367 FEET = 0.07 MILE

**AES**  
ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED November 30, 2018  
Anthony J. Drent REGIONAL ENGINEER  
Feb 19, 2019  
Paul P. Chif ENGINEER OF DESIGN AND ENVIRONMENT  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



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STATE STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH PAVEMENT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
515001-03	NAME PLATE FOR BRIDGES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15" (4.5M) TO 24"(600MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE,2L,2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
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	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE

SANITARY SEWER PROTECTION:

THE TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) AT APPROX. 45+00 WILL TAPER NEAR THE SANITARY SEWER. THE CONTRACTOR SHALL VERIFY THE LOCATION, WATCH AND PROTECT THE SEWER. ADJUSTMENT TO THE TAPER CAN BE MADE IF NECESSARY.

WHEN DRIVING SHEET PILE FOR THE CULVERT CONSTRUCTION THE CONTRACTOR SHALL WATCH AND PROTECT THE SANITARY SEWER. GAPPING OF THE SHEET PILE AS NECESSARY TO AVOID DAMAGE.

GENERAL NOTES:

1. THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
3. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING CONSTRUCTION.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
10. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.
13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE 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.
14. CONTRACTOR SHALL NOTIFY PACE 10 DAYS PRIOR TO STARTING CONSTRUCTION. CONTACT IS RICHARD WILLMAN AT (847) 228-3584.
15. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
16. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) PERMIT THAT WILL BE SECURED BY 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 IN-STREAM WILR 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.
17. THE CONTRACTOR SHALL REMOVE THE "WEIGHT LIMIT" SIGNS (2) AFTER CONSTRUCTION IS COMPLETE AND APPROVAL IS RECEIVED BY THE RESIDENT ENGINEER. THE RESIDENT ENGINEER SHALL CONTACT BRIDGE MAINTENANCE ENGINEER AT (847) 705-4180 A MINIMUM OF 2 WEEKS PRIOR TO REMOVAL OF THE SIGN.

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FILE NAME: V:\IDOT\DOT60618002.07\_PTB185\_002\_W07\_62G48\_IL\_31\_Bridge\01CADD\005Sheet03\_D162G48\_Sht\_Gennotes.dgn

 <div>111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783</div>	USER NAME = mokrent	DESIGNED - TOM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES AND COMMITMENTS			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TOM	REVISED -					336A	2018-056-DR-7	MCHENRY	71	02
	PLOT SCALE = 2.0000 ' / in.	CHECKED - MO	REVISED -					CONTRACT NO. 62G48				
	PLOT DATE = 1/11/2019	DATE - 11/19/2018	REVISED -					ILLINOIS   FED. AID PROJECT				
					SCALE: N/A	SHEET 1 OF 1 SHEETS	STA.	TO STA.				



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED, 20% STATE	
				BOX CULVERT	
				0004	
				URBAN	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	22	22	
20200100	EARTH EXCAVATION	CU YD	484	484	
20300100	CHANNEL EXCAVATION	CU YD	23	23	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	186	186	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	744	744	
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	
25000314	SEEDING, CLASS 4B	ACRE	0.1	0.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	
25100115	MULCH, METHOD 2	ACRE	0.25	0.25	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	220	220	
28000305	TEMPORARY DITCH CHECKS	FOOT	32	32	
28000400	PERIMETER EROSION BARRIER	FOOT	657	657	
28000510	INLET FILTERS	EACH	9	9	

REV. - MS

\* SPECIALTY ITEMS



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/13/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER SUMMARY OF QUANTITIES				
SCALES	7	SHEET	OF	SHEETS
STA.	OF	TO STA.		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	03
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



Model: Default  
File Name: V:\00DOT\60618002\_07\_PTB\185\_002\_W07\_62G48\_IL\_31\_Bridge\01CADD\005Sheet04.D162G48 SH-500 2.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
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				0004	
				URBAN	
28100107	STONE RIPRAP, CLASS A4	SQ YD	44	44	
28200200	FILTER FABRIC	SQ YD	44	44	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	69	69	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	671	671	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	58	58	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	70	70	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	7	7	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	10	10	
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	33	33	
40702061	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 19"	SQ YD	29	29	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	43	43	
42001300	PROTECTIVE COAT	SQ YD	43	43	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1428	1428	
42400800	DETECTABLE WARNINGS	SQ FT	20	20	

REV. - MS

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	DRAWN - TOM	REVISIED -						336A	2018-056-DR-7	MCHENRY	71	04
	PLOT SCALE = 2.0000' / in.	CHECKED - MO	REVISED -		SCALE:		SHEET 2 OF 7 SHEETS		STA. TO STA.		CONTRACT NO. 62G48	
	PLOT DATE = 12/13/2018	DATE - 11/19/2018	REVISED -						ILLINOIS FED. AID PROJECT			



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
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				BOX CULVERT	
				0004	
				URBAN	
44000100	PAVEMENT REMOVAL	SQ YD	620	620	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	85	85	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	73	73	
44000300	CURB REMOVAL	FOOT	98	98	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	664	664	
44000600	SIDEWALK REMOVAL	SQ FT	5398	5398	
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	61	61	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	225	225	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	120	120	
50300225	CONCRETE STRUCTURES	CU YD	13	13	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	46	46	
50300260	BRIDGE DECK GROOVING	SQ YD	236	236	
50300300	PROTECTIVE COAT	SQ YD	266	266	

REV. - MS

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	DRAWN - TOM		REVISD -	REVISED -					336A	2018-056-DR-7	MCHENRY	71	05
	PLOT SCALE = 2.0000' / in.		CHECKED - MO	REVISED -		SCALE:		CONTRACT NO. 62G48					
	PLOT DATE = 12/13/2018		DATE - 11/19/2018	REVISED -		SHEET 3 OF 7 SHEETS		STA.		TO STA.			
ILLINOIS FED. AID PROJECT													



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
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				BOX CULVERT	
				0004	
				URBAN	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	57	57	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	46520	46520	
50800515	BAR SPLICERS	EACH	257	257	
50901125	STEEL RAILING (TEMPORARY)	FOOT	70	70	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	657	657	
54003000	CONCRETE BOX CULVERTS	CU YD	64	64	
55101200	STORM SEWER REMOVAL 24"	FOOT	3	3	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	20	20	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	15	15	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3	
60260100	INLETS TO BE ADJUSTED	EACH	6	6	
60600605	CONCRETE CURB, TYPE B	FOOT	71	71	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	630	630	

REV. - MS

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	DRAWN - TOM		REVIS	ED					336A	2018-056-DR-7	MCHENRY	71	06
	PLOT SCALE = 2.0000' / in.		CHECKED - MO	REVISED -		SCALE:		SHEET 4 OF 7 SHEETS		STA.	TO STA.		
	PLOT DATE = 12/13/2018		DATE - 11/19/2018	REVISED -						ILLINOIS FED. AID PROJECT			



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FILE NAME: V:\00DOT60618002.07\_PTB185\_002\_W07\_62G48\_IL\_31\_Bridge\01CADD\005Sheet07.D162G48 SHt-500 5.dgn

				CONSTR. CODE	
				80% FED, 20% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT	
				0004	
				URBAN	
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	157	157	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	34	34	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	256	256	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	396	396	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLANS	L SUM	1	1	
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DAYS	15	15	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1950	1950	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	649	649	

REV. - MS

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 <div>111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783</div>	USER NAME = makrent		DESIGNED - TOM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER SUMMARY OF QUANTITIES				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - TOM		REVISIED -	REVISED -						336A	2018-056-DR-7	MCHENRY	71	07
	PLOT SCALE = 2.0000' / in.		CHECKED - MO	REVISED -		SCALE:		CONTRACT NO. 62G48						
	PLOT DATE = 12/13/2018		DATE - 11/19/2018	REVISED -		SHEET 5 OF 7 SHEETS		STA.		TO STA.				
ILLINOIS FED. AID PROJECT														



MODEL: Default  
FILE NAME: V:\QDDOT\60618002\_07\_PTB185\_002\_W07\_62G48\_IL\_31\_Bridge\01CADD\005Sheet08.D162G48 SHt-500 6.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED, 20% STATE	
				BOX CULVERT	
				0004	
				URBAN	
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	364	364	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	12632	12632	
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	853	853	
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	49	49	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	215	215	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	575	575	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	832	832	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	5	5	
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	6	6	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	203	203	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2238	2238	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	624	624	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	67	67	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37	37	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	107	107	

REV. - MS

\* SPECIALTY ITEMS

 <div>111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783</div>	USER NAME = makrent	DESIGNED - TOM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER SUMMARY OF QUANTITIES		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TOM	REVISED -				336A	2018-056-DR-7	MCHENRY	71	08
	PLOT SCALE = 2.0000 ' / in.	CHECKED - MO	REVISED -				CONTRACT NO. 62G48				
	PLOT DATE = 12/13/2018	DATE - 11/19/2018	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 6 OF 7 SHEETS		STA.		TO STA.					



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED, 20% STATE	
				BOX CULVERT	
				0004	
				URBAN	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	54	54	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3	3	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	112	112	
* 78100300	REPLACEMENT REFLECTOR	EACH	71	71	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	113	113	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	3	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
* 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1555	1555	
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2	2	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	300	300	

REV. - MS

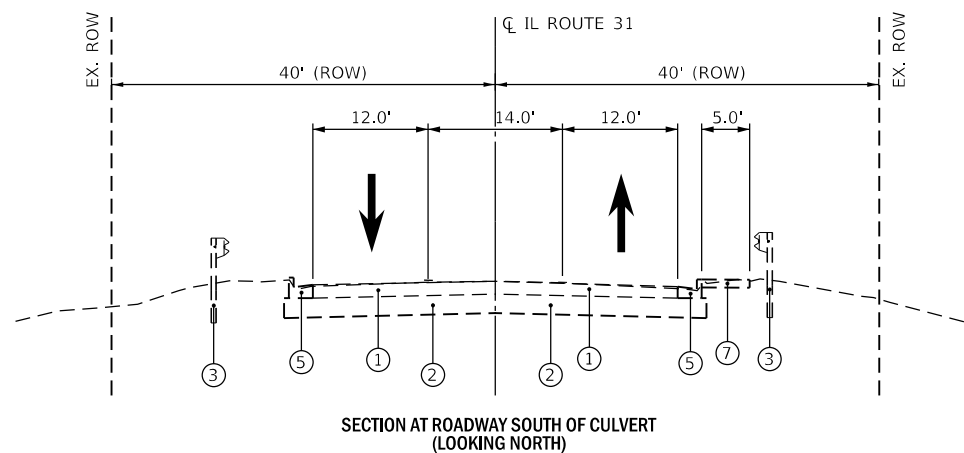
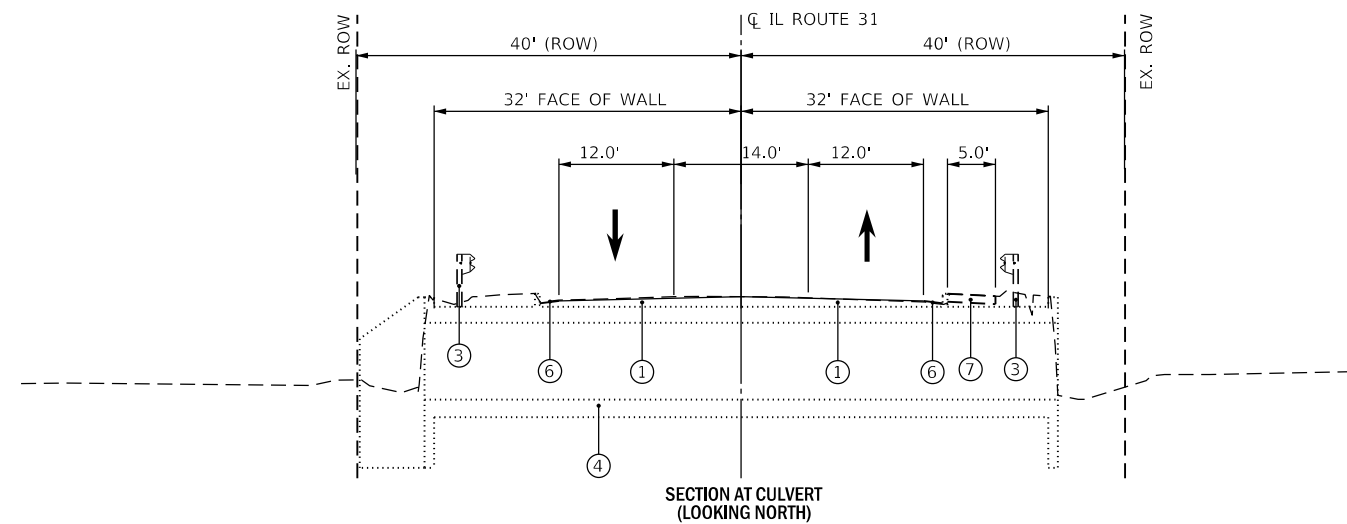
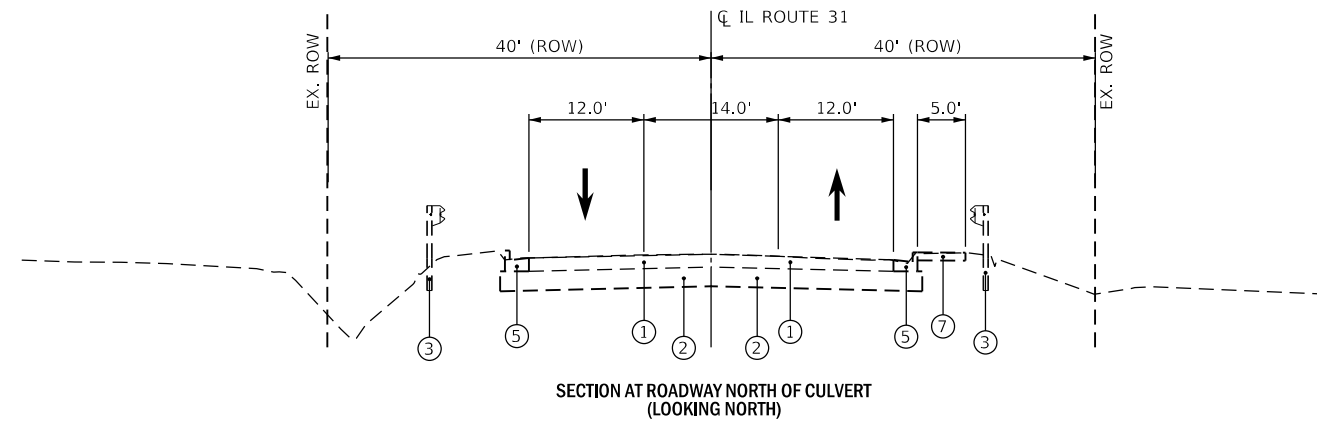
\* SPECIALTY ITEMS

 <div>111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783</div>	USER NAME = makrent		DESIGNED - TOM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER SUMMARY OF QUANTITIES			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - TOM		REVISD -	REVISED -					336A	2018-056-DR-7	MCHENRY	71	09
	PLOT SCALE = 2.0000' / in.		CHECKED - MO	REVISED -		SCALE:		CONTRACT NO. 62G48					
	PLOT DATE = 12/13/2018		DATE - 11/19/2018	REVISED -		SHEET 7 OF 7 SHEETS		STA.		TO STA.			
ILLINOIS FED. AID PROJECT													







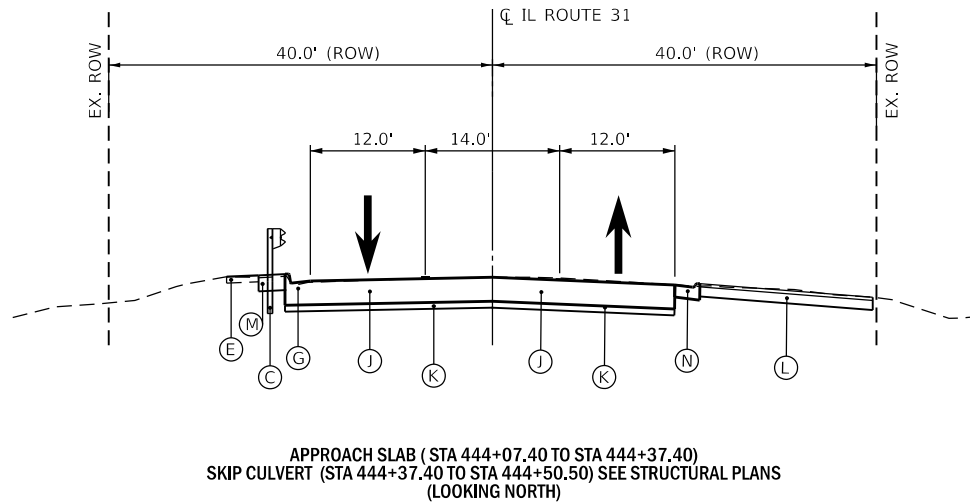
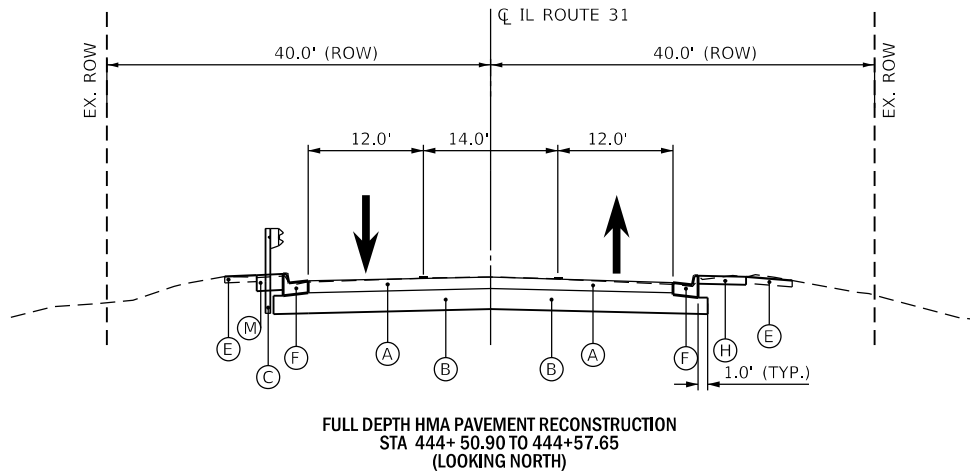
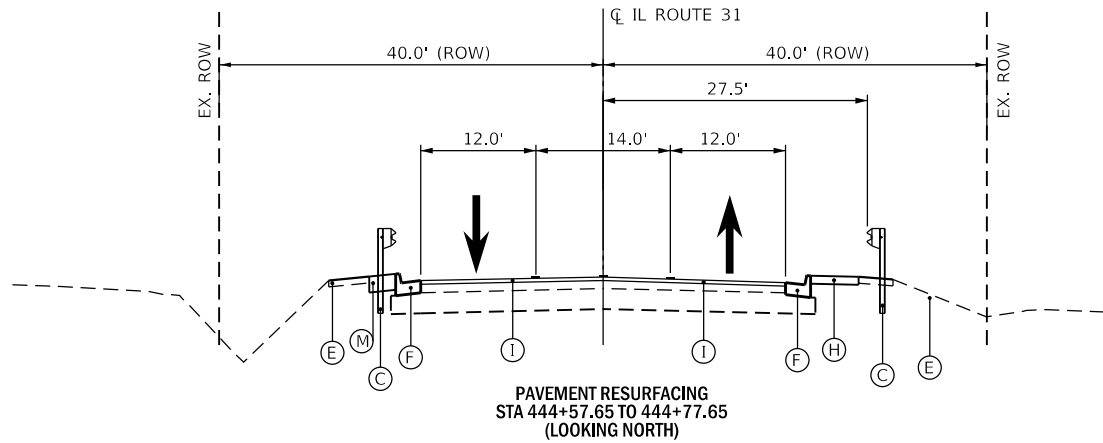


**EXISTING LEGEND**

- ① HMA SURFACE COURSE, 4" to 6"
- ② PCC BASE COURSE, 7" TO 9"
- ③ GUARDRAIL (TO BE REMOVED)
- ④ CULVERT (TO BE REMOVED)
- ⑤ CONCRETE CURB AND GUTTER (B6-24) (TO BE REMOVED)
- ⑥ INTEGRAL CURB AND GUTTER (TO BE REMOVED)
- ⑦ CONCRETE SIDEWALK (TO BE REMOVED)



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PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB  
STA 443+97.40 TO STA 444+07.40)  
SEE STANDARD 420406  
OVER AGGREGATE SUBGRADE IMPROVEMENT 12"  
(LOOKING NORTH)

#### MIXTURE TABLE NOTES

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE AC TYPE FOR NON POLYMERIZED HMA MIXES SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

#### ADDITIONAL PAVING NOTES

1. 8" PCC PAVEMENT MAY BE SUBSTITUTED FOR THE HMA TEMPORARY PAVEMENT. IF THE PCC OPTION IS USED, THE PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. THE PAVEMENT SHALL NOT REQUIRE DOWEL BARS. TEMP PAVEMENT SHALL BE PLACED OVER 4" SUBBASE GRANULAR MATERIAL TYPE B.
2. 4" PCC MAY BE SUBSTITUTED FOR THE HMA TEMPORARY SIDEWALK. THE CONCRETE SHALL BE CLASS SI MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE SSRBC.

#### HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR	QC/QA
HOT MIX ASPHALT PAVEMENT FD, 19"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 17"	4% @ 70 GYR	QC/QA
PRIVATE DRIVEWAY		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19)	4% @ 50 GYR	QC/QA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 8"	4% @ 70 GYR	QC/QA
TEMPORARY PAVEMENT (VARIABLE DEPTH)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR	QC/QA
TEMPORARY SIDEWALK		
HOT-MIX ASPHALT BINDER COURSE, (IL 19.0) N50, 4"	4% @ 50 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

#### PROPOSED LEGEND

- (A) HOT MIX ASPHALT PAVEMENT FD, 19"
  - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
  - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 17"
- (B) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (C) STEEL PLATE GUARDRAIL, TYPE A, 9 FOOT POSTS
- (D) STRONG POST GUARDRAIL ATTACHED TO CULVERT
- (E) RESTORATION LANDSCAPING:
  - SEE EROSION CONTROL SHEET FOR SEEDING AND COVER
  - TOPSOIL FURNISH AND PLACE, 4"
- (F) CONCRETE CURB AND GUTTER B6-24
- (G) INTEGRAL CURB AND GUTTER 24" (INCLUDED IN CONCRETE BOX CULVERT)
- (H) PCC SIDEWALK 5"
- (I) PAVEMENT RESURFACING
  - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (J) APPROACH SLAB (SEE STRUCTURE PLANS FOR DETAILS)
- (K) SUBBASE GRANULAR MATERIAL TYPE B, 4"
- (L) PRIVATE DRIVEWAY
  - HMA SURFACE COURSE MIX "D", N50, 2"
  - HMA BASE COURSE 6"
- (M) AGGREGATE SHOULDERS, TYPE B, 10" (FOR GUARDRAIL STABILIZATION)
- (N) DEPRESSED CURB AND GUTTER



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
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PLOT SCALE = 20.0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/12/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	11
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION (CU YD)	15% ADJUSTMENT FOR SHRINKAGE (CU YD)	FILL EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE(+) SHORTAGE(-) (CU YD)
STATION	TO	STATION				
STAGE 1			143	122	0	122
STAGE 2			238	202	1	201
STAGE 3			86	73	44	29
STAGE 4			17	14	56	-42
TOTAL			484	411	101	310

GUARDRAIL SCHEDULE

				63100167	63000003	63000030	63100045	72501000
			SIDE	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT*	SPBGR, TYP A, 9 FT POSTS	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TRAFFIC BARRIER TERMINAL, TYPE 2	TERMINAL MARKER - DIRECT APPLIED
STATION	TO	STATION		(EACH)	(FEET)	(FEET)	(EACH)	(EACH)
444+14.34	TO	444+29.34	LT	-	-	-	1	-
444+29.34	TO	444+35.59	LT		6	-	-	-
444+35.59	TO	444+52.21	LT		-	17	-	-
444+52.21	TO	445+50.78	LT	-	99	-	-	-
445+50.78	TO	446+00.78	LT	1	-	-	-	1
444+32.46	TO	444+35.59	RT		3	-	-	-
444+35.59	TO	444+52.21	RT		-	17	-	-
444+52.21	TO	445+00.78	RT		49	-	-	-
445+00.78	TO	445+15.78	RT		-	-	1	-
TOTAL				1	157	34	2	1

\* LENGTH OF NEED POINT: 445+88.28

NOTE:  
GUARDRAIL LAYOUT WAS DETERMINED TO AVOID POSTS THRU THE EX. CULVERT TO REMAIN AND AVOID POSTS THRU WALLS OF NEW CULVERT.  
CONTRACTOR RESPONSIBLE FOR ADJUSTMENTS TO POST SPACING TO ENSURE CULVERTS ARE NOT DAMAGED NOR IS OUTLET PIPE STA 445+14 (WEST SIDE).  
EXACT STATIONING MAY ALSO HAVE MINOR ADJUSTMENTS.  
THESE ADJUSTMENTS ARE INCLUDED IN THE RESPECTIVE GUARDRAIL ITEMS.  
SHOE AT END OF GUARDRAIL BEYOND LIMITS OF SPBGR SHOWN AND INCLUDED IN COST OF SPBGR.

CURB AND GUTTER REMOVAL AND REPLACEMENT

		44000500	6060500
LOCATION	SIDE	CURB AND GUTTER REMOVAL (FOOT)	COMB. CONC. C & G, TYPE B-6.24' (FOOT)
SN:016-0355			
442+82.00 TO 444+07.00	WEST	125	125
444+07.00 TO 444+37.00	WEST	30	APPROACH SLAB
444+37.00 TO 444+48.00	WEST	-	CULVERT
444+48.00 TO 446+32.00	WEST	184	181
442+65.00 TO 442+92.50	EAST	27	28
443+23.00 TO 443+48.00	EAST	25	26
443+48.00 TO 444+07.00	EAST	59	59
444+07.00 TO 444+37.00	EAST	30	30
444+37.00 TO 444+48.00	EAST	CULVERT	CULVERT
444+48.00 TO 446+32.00	EAST	184	181
TOTAL		664	630

GUARDRAIL REMOVAL SCHEDULE

		63200310
SIDE		GUARDRAIL REMOVAL (FEET)
WEST		128
EAST		128
TOTAL		256

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PAVEMENT SCHEDULE & PAVEMENT REMOVAL SCHEDULE

LOCATION	SIDE	PAVEMENT RECONSTRUCTION			RESURFACING		TEMPORARY PAVEMENT			DRIVEWAY PAVEMENT			SIDEWALK	REMOVAL QUANTITIES					
		40702061	30300112	40700100	40603340	40600290	Z0062456	31101200	Z0007430	40603335	35501308	40600290	42400100	44000100		44000157	44000200	44000600	
		HMA PAVEMENT FULL DEPTH 19"	AGGREGATE SUBGRADE IMPROVEMENT 12"	TACK COAT	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	TACK COAT	TEMPORARY PAVEMENT	SUBBASE GRANULAR MATERIAL TYPE B 4"	TEMPORARY SIDEWALK	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50.	HOT-MIX ASPHALT BASE COURSE 6"	TACK COAT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	PAVEMENT REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL, 2"	DRIVEWAY PAVEMENT REMOVAL	SIDEWALK REMOVAL	
														EXISTING PAVEMENT REMOVAL	TEMPORARY PAVEMENT REMOVAL			EXISTING SIDEWALK/ EX GR STAB REMOVAL	TEMPORARY SIDEWALK REMOVAL
STATION TO STATION	DESCRIPTION	(SQYD)	(SQYD)	POUND	(TON)	POUND	(SQ YD)	(SQ YD)	(SQFT)	(TON)	(SQ YD)	POUND	(SQ FT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ FT)	(SQ FT)
443+62.00	DRIVEWAY (WEST)	-	-	-	-	-	-	-	-	4	31	6.5	-	-	-	-	32	-	-
444+20.05	DRIVEWAY (EAST)	-	-	-	-	-	-	-	-	3	27	6.5	-	-	-	-	41	-	-
443+97.40 to 444+07.40	PVT CON HMA BR APP SL		35		-	-	-	-	-	-	-	-	-	42	-	-	-	-	-
444+07.40 to 444+37.40	APPROACH SLAB	-	-	-	-	-	-	126.7	-	-	-	-	-	130	-	-	-	-	-
444+37.40 TO 444+50.90	CULVERT OMISSION																		
444+50.90 TO 444+57.65	FD PVMT RECON	29	34	33	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
444+57.65 TO 444+77.65	PVMT RESURFACING	-	-	-	10	57	-	-	-	-	-	-	-	-	-	85	-	-	-
442+82.33 TO 443+50.38	TEMP PAVEMENT (WEST)	-	-	-	-	-	34.0	34.0	-	-	-	-	-	-	34.0	-	-	-	-
443+5038 TO 444+37.37	TEMP PAVEMENT (WEST)	-	-	-	-	-	67.5	67.5	-	-	-	-	-	-	67.5	-	-	-	-
444+50.88 TO 444+57.63	TEMP PAVEMENT (WEST)	-	-	-	-	-	5.5	5.5	-	-	-	-	-	-	5.5	-	-	-	-
444+62.50 TO 444+13.17	TEMP PAVEMENT (WEST)	-	-	-	-	-	151	150.5	-	-	-	-	-	-	151	-	-	-	-
443+35.00 TO 444+37.38	TEMP PAVEMENT (EAST)	-	-	-	-	-	78.5	78.5	-	-	-	-	-	-	78.5	-	-	-	-
444+50.88 TO 444+57.63	TEMP PAVEMENT (EAST)	-	-	-	-	-	5.5	5.5	-	-	-	-	-	-	5.5	-	-	-	-
444+62.60 TO 445+37.61	TEMP PAVEMENT (EAST)	-	-	-	-	-	59	58.5	-	-	-	-	-	-	59	-	-	-	-
445+37.61 TO 445+78.50	TEMP PAVEMENT (EAST)	-	-	-	-	-	20.5	20.5	-	-	-	-	-	-	20.5	-	-	-	-
442+78.25 TO 443+50.25	TEMP SIDEWALK (WEST)	-	-	-	-	-	-	-	218	-	-	-	-	-	-	-	-	-	218
443+50.25 TO 444+37.37	TEMP SIDEWALK (WEST)	-	-	-	-	-	-	-	523	-	-	-	-	-	-	-	-	-	523
444+37.37 TO 444+62.60	TEMP SIDEWALK (WEST)	-	-	-	-	-	-	-	151.5	-	-	-	-	-	-	-	-	-	151.5
446+08.23 TO 446+32.70	TEMP SIDEWALK (WEST)	-	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	98
443+44.50 TO 444+11.18	TEMP SIDEWALK (EAST)	-	-	-	-	-	-	-	615	-	-	-	-	-	-	-	-	-	615
444+11.18 TO 445+27.61	TEMP SIDEWALK (EAST)	-	-	-	-	-	-	-	699	-	-	-	-	-	-	-	-	-	699
447+27.61 TO 446+20.00	TEMP SIDEWALK (EAST)	-	-	-	-	-	-	-	882	-	-	-	-	-	-	-	-	-	882
443+40.00 TO 444+13.00	CONC SIDEWALK (EAST)	-	-	-	-	-	-	-	-	-	-	-	389	-	-	-	-	389	-
444+29.00 TO 446+29.00	CONC SIDEWALK (EAST)	-	-	-	-	-	-	-	-	-	-	-	1039	-	-	-	-	1039	-
444+07.00 TO 445+38.50	PCC GR STAB REM (WEST)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	395	-
444+28.50 TO 445+58.20	PCC GR STAB REM (EAST)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	389	-
	TOTAL	29	69	33	10	57	422	548	3186	7	58	13	1428	201	422	85	73	2212	3186

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PAVEMENT MARKING TAPE, TYPE IV SCHEDULE

LOCATION	DESCRIPTION	70300904		70300906
		(FOOT)	(FOOT)	(FOOT)
		(WHITE)	(YELLOW)	(WHITE)
STATION TO STATION		LINE 4"	LINE 4"	LINE 6"
STAGE 1				-
440+36.00 TO 442+85.00	DOWNSTREAM TAPER	249	249	-
442+85.00 TO 446+25.00	TANGENT	340	680	-
447+13.50 TO 447+54.50	TANGENT	41	82	-
447+54.50 TO 448+79.50	UPSTREAM TAPER	125	125	-
STAGE 2				-
438+00.00 TO 441+50.00	UPSTREAM TAPER	350	350	-
441+50.00 TO 442+66.00	TANGENT	116	232	-
442+79.25 (FROM CAD)	CROSSWALK	-	-	86
442+66.00 TO 443+44.00	TAPER	156	39	-
443+44.00 TO 445+53.00	TANGENT	418	418	-
445+53.00 TO 446+13.00	TAPER	120	120	-
446+13.00 TO 446+26.00	TANGENT	26	26	-
447+12.00 TO 447+62.00	TANGENT	50	100	-
447+62.00 TO 449+60.00	DOWNSTREAM TAPER	198	98	-
STAGE 3				-
439+70.00 TO 440+70.00	MEDIAN	200	-	-
440+70.00 TO 441+70.00	DOWNSTREAM TAPER	200	200	-
441+70.00 TO 442+70.00	TANGENT	100	200	-
442+70.00 TO 443+75.00	TAPER	170	130	-
443+75.00 TO 445+28.00	TANGENT	306	306	-
445+28.00 TO 446+28.00	TAPER	200	200	-
447+12.00 TO 447+52.00	TANGENT	40	80	-
447+52.00 TO 449+02.00	UPSTREAM TAPER	150	150	-
CONTINUED				

PAVEMENT MARKING TAPE, TYPE IV SCHEDULE

LOCATION	DESCRIPTION	70300904		70300906
		(FOOT)	(FOOT)	(FOOT)
		(WHITE)	(YELLOW)	(WHITE)
STATION TO STATION		LINE 4"	LINE 4"	LINE 6"
STAGE 4				
438+53.00 TO 439+53.00	MEDIAN	200	-	-
439+53.00 TO 441+53.00	UPSTREAM TAPER	200	400	-
441+53.00 TO 442+66.00	TANGENT	226	226	-
442+81.00 (FROM CAD)	CROSSWALK	-	-	89
443+44.00 TO 446+24.00	TANGENT	560	560	-
447+12.00 TO 447+62.00	TANGENT	100	100	-
447+62.00 TO 448+87.00	UPSTREAM TAPER	125	125	-
447+62.00 TO 448+87.00	DOWNSTREAM TAPER	125	-	-
WINTER SHUTDOWN <sup>1</sup>		2345	-	678
GRAND TOTAL		7036	5596	853

PAVEMENT MARKING TAPE, TYPE IV SCHEDULE

LOCATION	DESCRIPTION	70300924
		(FOOT) (WHITE) LINE 24"
STAGE 1		
446+26.22	STOP BAR	21
447+12.00	STOP BAR	21
STAGE 2		
446+26.22	STOP BAR	21
447+12.00	STOP BAR	21
STAGE 3		
446+26.22	STOP BAR	21
447+12.00	STOP BAR	21
STAGE 4		
446+26.22	STOP BAR	11
447+12.00	STOP BAR	11
WINTER SHUTDOWN <sup>1</sup>		67
TOTAL		215

1) WINTER SHUTDOWN QUANTITY SAME AS THERMOPLASTIC/MODIFIED URETHANE PAVEMENT MARKING

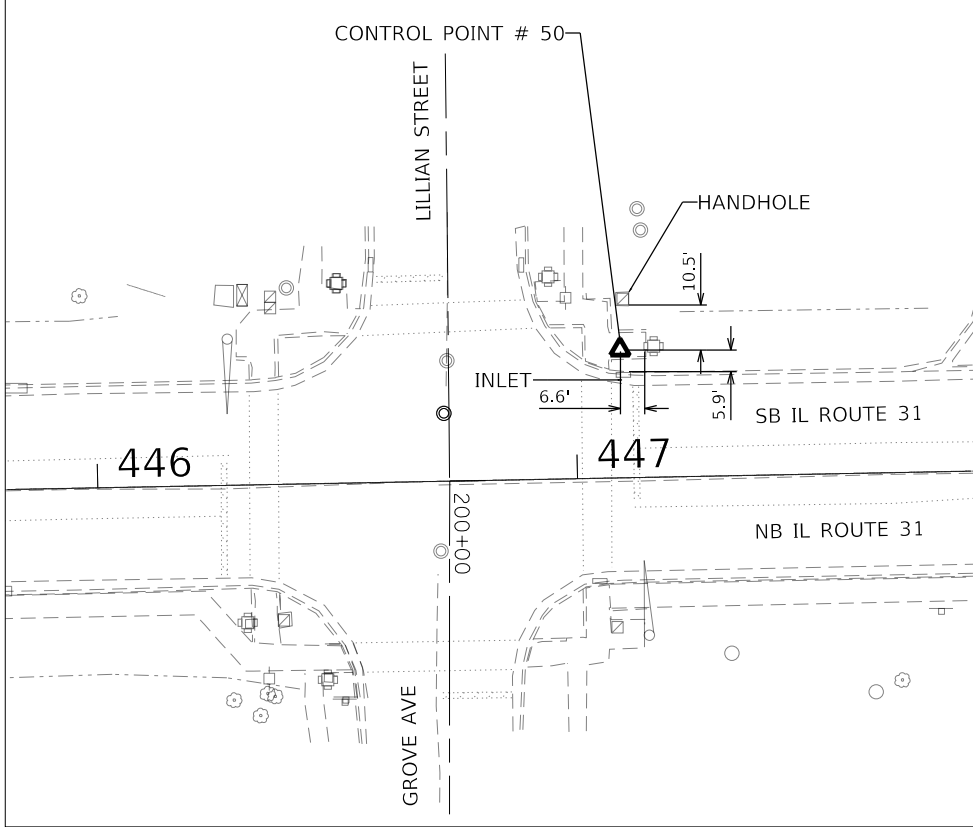
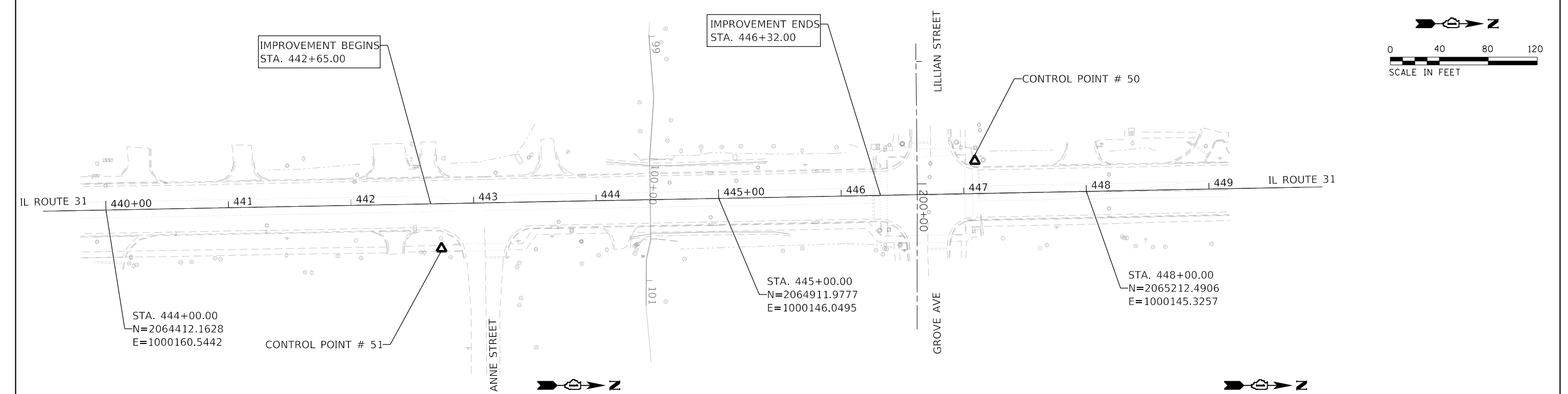
REPLACEMENT REFLECTORS

LOCATION	DESCRIPTION			NO OF SIDE	78100300	X7830050
		DISTANCE	REFLECTORS EACH SIDE		REPLACEMENT REFLECTORS	REFLECTOR REMOVAL
STATION TO STATION						
438+00.00 TO 442+88.00	TWO WAY LEFT TURN LANE	480.0	13	2	26	26
442+72.00 TO 442+88.00	MEDIAN CURVE	14.0	4	1	4	4
443+43.00 TO 446+26.50	CENTER LINE	283.5	8	2	16	16
443+43.00 TO 444+43.00	LEFT TURN LANE	100	3	1	3	3
445+26.00 TO 446+26.50	LEFT TURN LANE	100.5	3	1	3	3
447+12.00 TO 447+95.00	LEFT TURN LANE	83.0	3	1	3	3
448+83.50 TO 449+95.00	LEFT TURN LANE	76.5	2	1	2	2
447+12.00 TO 449+60.00	CENTER LINE	248.0	7	2	14	14
TOTAL					71	71

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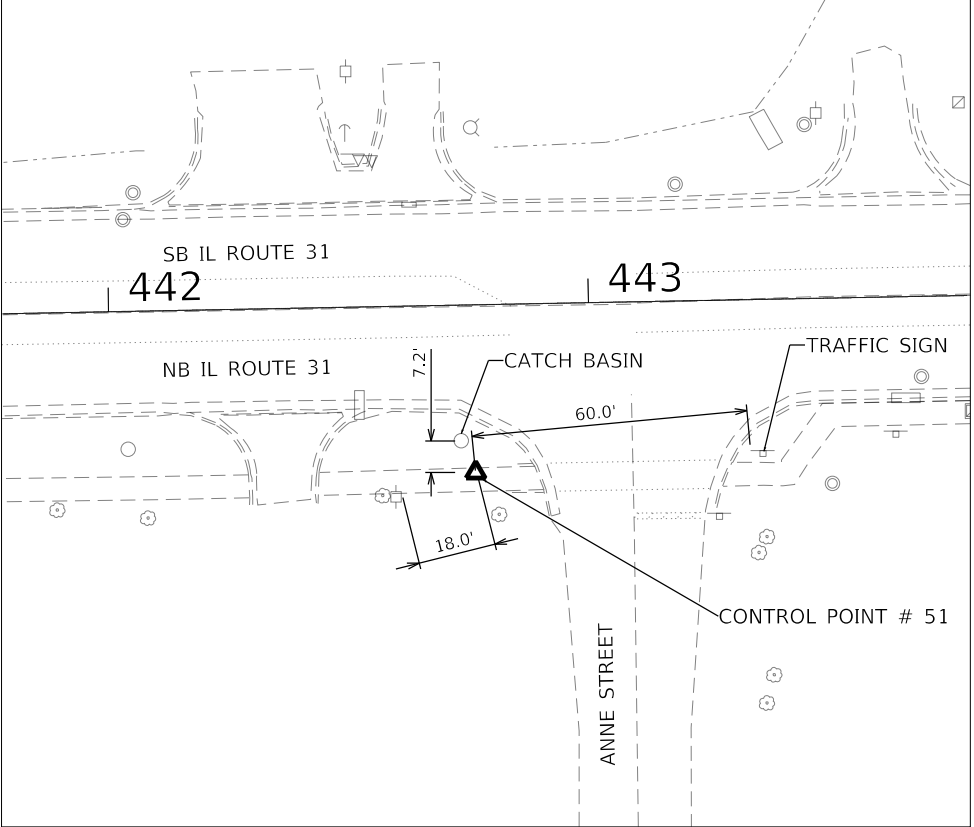


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**CONTROL POINT #50**

ELEV. : 754.47  
TYPE OF MARKER : CUT CROSS  
NORTHING : 2065120.9100  
EASTING : 1000120.3560  
LOCATION : CUT CROSS AT THE NORTHWEST CORNER  
OF IL-31 AND LILLIANS STREET



**CONTROL POINT #51**

ELEV. : 755.20  
TYPE OF MARKER : CUT CROSS  
NORTHING : 2064688.6261  
EASTING : 1000190.2710  
LOCATION : CUT CROSS AT THE SOUTH EAST CORNER  
OF IL-31 AND ANNE STREET

**AES** ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

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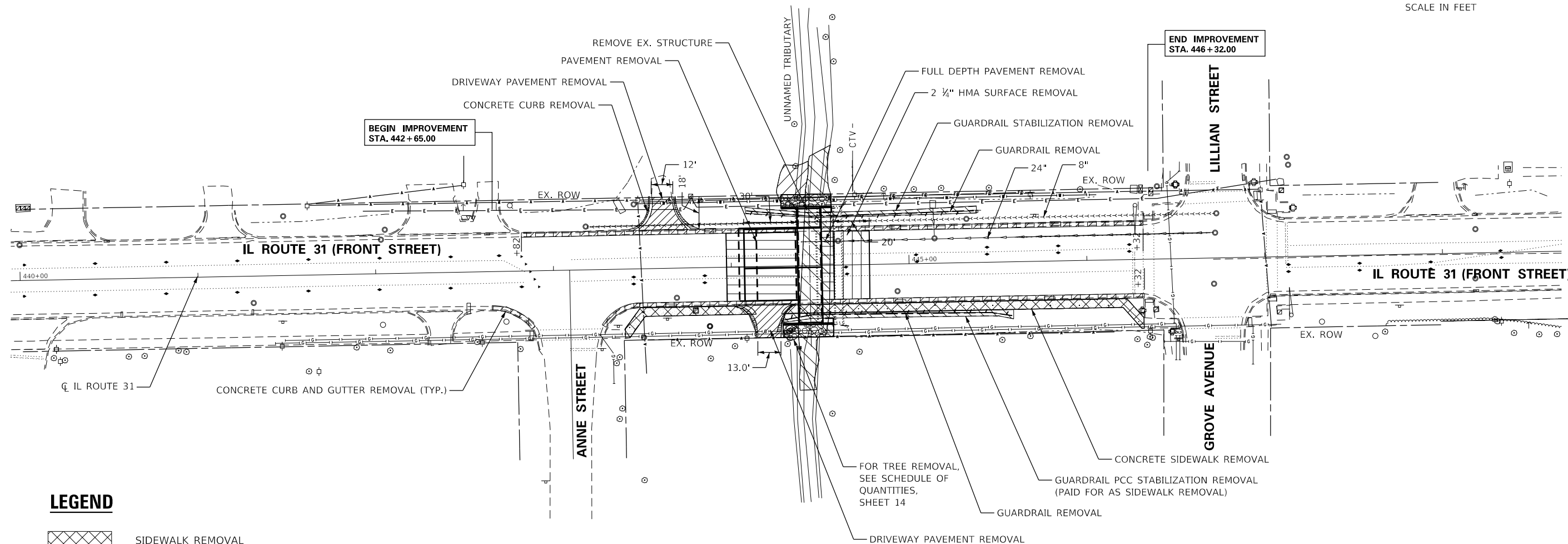
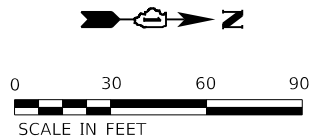
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
ALIGNMENT TIES AND BENCHMARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	16
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				





**LEGEND**

- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- PAVEMENT REMOVAL
- 2 1/4" HMA SURFACE REMOVAL
- GUARDRAIL PCC STABILIZATION REMOVAL (PAID FOR AS SIDEWALK REMOVAL)
- CONCRETE CURB AND GUTTER REMOVAL
- CONCRETE CURB REMOVAL
- GUARDRAIL REMOVAL
- WETLANDS
- SURFACE WATER

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
EXISTING CONDITION AND REMOVAL PLAN

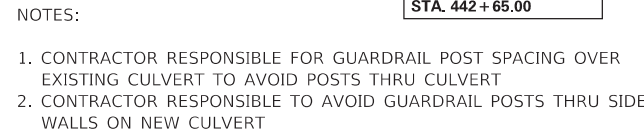
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	17
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



<b>PROFILE</b>	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CH'KD _____		

MODEL: Default



## IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER PLAN AND PROFILE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	18
		CONTRACT NO. 62G48		
ILLINOIS		FED. AID PROJECT		



TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON EACH SIGN IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS.
3. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" X 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLOURESCENT ORANGE REFLECTORIZED BACKGROUND.
4. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE TWO LOW INTENSITY FLASHING LIGHTS MOUNTED ON TOP OF EACH BARRICADE.
5. MAINTAIN EXISTING TRAFFIC SIGNS.
6. COVER ALL EXISTING TRAFFIC SPEED LIMIT SIGNS WHERE WORK ZONE SPEED LIMIT CHANGES ARE IMPLEMENTED.
7. WHERE ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
8. EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
9. PRIOR TO START OF CONSTRUCTION, ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.
10. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO ANY ANTICIPATED CLOSURES.
11. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST TRAFFIC CONTROL AND PROTECTION (SPECIAL).
12. CONTRACTOR MAY NEED TO ADJUST STRIPING AND BARREL LOCATIONS TO ACCOMMODATE PACE BUS TURNS FROM SB IL 31 TO WB LILLIAN.
13. TEMPORARY SIGNALS MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THE SIGNALS SHALL BE ADJUSTED PER THE INCLUDED TEMPORARY TRAFFIC SIGN PLANS FOR EACH STAGE.
14. ACCESS TO RESIDENTS AND BUSINESSES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

SUGGESTED CONSTRUCTION SEQUENCE

STAGE 1:

TRAFFIC MAINTENANCE:

IL ROUTE 31- TRAFFIC SHALL BE MAINTAINED ON THE IL RT. 31 EXISTING PAVEMENT (EAST SIDE) WITH ONE LANE OF TRAFFIC IN EACH DIRECTION. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN.

SIDE STREETS - TRAFFIC SHALL BE MAINTAINED ON THE SIDE STREETS WITHOUT CHANGE TO THE EXISTING LANE CONFIGURATION OR EXISTING TRAFFIC SIGNALS.

THE FOLLOWING WORK ITEMS ARE TO BE COMPLETED DURING STAGE 1:

- TRAFFIC CONTROL ITEMS, TEMPORARY PAVEMENT MARKING AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED THROUGHOUT THE CONSTRUCTION AREA PRIOR TO WORK COMMENCING.
- REMOVE THE EXISTING WEST SIDE CURB AND GUTTER ON IL RT. 31 OVER THE BOX CULVERT FOR UNNAMED TRIBUTARY TO THE FOX RIVER & EXTENDED AREA
- REMOVE PARKWAY, GUARDRAIL AND CONSTRUCT THE TEMPORARY WEST SIDE PAVEMENT AS SHOWN
- CONSTRUCT TEMPORARY SUPPORTING BOARD WALK FOR PEDESTRIAN ACCESS AS SHOWN ON WEST SIDE ALSO SOME SIDEWALK AT GRADE
- CONSTRUCT TEMPORARY PAVEMENT MARKINGS

STAGE 2:

TRAFFIC MAINTENANCE:

IL ROUTE 31 - TRAFFIC SHALL BE MAINTAINED ON THE IL RT. 31 EXISTING (WEST SIDE) PAVEMENT AND TEMPORARY PAVEMENT WITH ONE LANE OF TRAFFIC IN EACH DIRECTION. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN.

SIDE STREETS - TRAFFIC SHALL BE MAINTAINED ON THE SIDE STREETS WITHOUT CHANGE TO THE EXISTING LANE CONFIGURATION OR EXISTING TRAFFIC SIGNALS.

THE FOLLOWING WORK ITEMS ARE TO BE COMPLETED DURING STAGE 2:

- DEMOLISH EAST SIDE PORTION OF IL RT. 31 AND EXISTING BOX CULVERT FOR UNNAMED TRIBUTARY TO THE FOX RIVER
- TRAFFIC CONTROL DEVICES SHALL BE INSTALLED THROUGHOUT THE CONSTRUCTION AREA PRIOR TO WORK COMMENCING.
- CONSTRUCT THE PROPOSED EAST HALF OF THE BOX CULVERT
- CONSTRUCT THE TEMPORARY PAVEMENT OVER THE EAST HALF OF IL RT. 31 AND NEW BOX CULVERT FOR UNNAMED TRIBUTARY TO THE FOX RIVER
- CONSTRUCT TEMPORARY SIDEWALK EAST FOR PEDESTRIAN ACCESS FOR USE IN STAGE 3
- CONSTRUCT IL RT. 31 TEMPORARY PAVEMENT MARKINGS
- MAINTAIN THE EXISTING 3.75' X 1.5' RELIEF CULVERT AT ALL TIMES

STAGE 3:

TRAFFIC MAINTENANCE:

IL ROUTE 31 - TRAFFIC SHALL BE MAINTAINED ON THE IL RT. 31 NEW PAVEMENT (EAST SIDE) AND TEMPORARY PAVEMENT WITH ONE LANE OF TRAFFIC IN EACH DIRECTION. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN.

SIDE STREETS - TRAFFIC SHALL BE MAINTAINED ON THE SIDE STREETS WITHOUT CHANGE TO THE EXISTING LANE CONFIGURATION OR EXISTING TRAFFIC SIGNALS.

THE FOLLOWING WORK ITEMS ARE TO BE COMPLETED DURING STAGE 3:

- DEMOLISH WEST SIDE PORTION OF IL RT. 31 AND EXISTING BOX CULVERT FOR UNNAMED TRIBUTARY TO THE FOX RIVER
- TRAFFIC CONTROL DEVICES SHALL BE INSTALLED THROUGHOUT THE CONSTRUCTION AREA PRIOR TO WORK COMMENCING.
- CONSTRUCT THE PROPOSED WEST HALF OF THE BOX CULVERT AND IL RT. 31 PAVEMENT OVER THE BOX CULVERT
- CONSTRUCT WEST SIDE CURB AND GUTTER, GUARDRAIL AND RESTORE THE PARKWAY TOPSOIL AND SEED
- CONSTRUCT IL RT. 31 TEMPORARY PAVEMENT MARKINGS
- MAINTAIN THE EXISTING 3.75' X 1.5' RELIEF CULVERT AT ALL TIMES

STAGE 4:

TRAFFIC MAINTENANCE:

IL ROUTE 31 - TRAFFIC SHALL BE MAINTAINED ON THE IL ROUTE 31 PAVEMENT (CENTER) BUILT IN PREVIOUS STAGES WITH ONE LANE OF TRAFFIC IN EACH DIRECTION. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN.

SIDE STREETS - TRAFFIC SHALL BE MAINTAINED ON THE SIDE STREETS WITHOUT CHANGE TO THE EXISTING LANE CONFIGURATION OR EXISTING TRAFFIC SIGNALS.

THE FOLLOWING WORK ITEMS ARE TO BE COMPLETED DURING STAGE 4:

- TRAFFIC CONTROL ITEMS, TEMPORARY PAVEMENT MARKING AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED THROUGHOUT THE CONSTRUCTION AREA PRIOR TO WORK COMMENCING.
- REMOVE THE TEMPORARY EAST SIDE PAVEMENT ON IL RT. 31.
- CONSTRUCT EAST SIDE CURB AND GUTTER, SIDEWALK, GUARDRAIL AND RESTORE THE PARKWAY TOPSOIL AND SOD.
- REMOVE TEMPORARY PAVEMENT MARKINGS.

STAGE 5:

TRAFFIC MAINTENANCE:

THE FOLLOWING WORK ITEMS ARE TO BE COMPLETED DURING STAGE 4:

- REMOVE TEMPORARY PAVEMENT MARKINGS
- PLACE FINAL PAVEMENT MARKING UTILIZING DISTRICT STANDARD TC-13.
- PLACE FINAL RAISED REFLECTIVE PAVEMENT MARKINGS UTILIZING DISTRICT STANDARD TC-11
- REMOVE TEMPORARY CONCRETE BARRIER UTILIZED DURING STAGE 4 FOR PEDESTRIAN ACCESS.

NOTES:

BOARD WALK AND PEDESTRIAN RAILING SHALL BE CONTRACTOR DESIGNED AND PROVIDED, MUST MEET ADA STANDARDS, RAILING SHALL BE EQUIVALENT TO 4 FEET HIGH CHAIN LINK FENCE, CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.

MANHOLES AND HANDHOLE ARE SHOWN AS RECONSTRUCT OR REBUILD TO ALLOW TRAFFIC DURING MOT TO DRIVE OVER THEM. IF NECESSARY TO TEMPORARY PAVEMENT OR TEMPORARY SIDEWALK, A STEEL PLATE SHALL BE PLACED OVER THE OPENING. COST INCLUDED IN RECONSTRUCT OR REBUILD PAY ITEMS.

FRAMES AND GRATES FOR INLETS TO BE ADJUSTED FOR MOT AND C&G RECONSTRUCTION MAY HAVE THE CASTINGS REMOVED AND STORED AND A PLATE PLACED OVER THE OPENING OR BE INCORPORATED INTO THE TEMPORARY PAVEMENT. COST INCLUDED IN INLET ADJUSTMENT.

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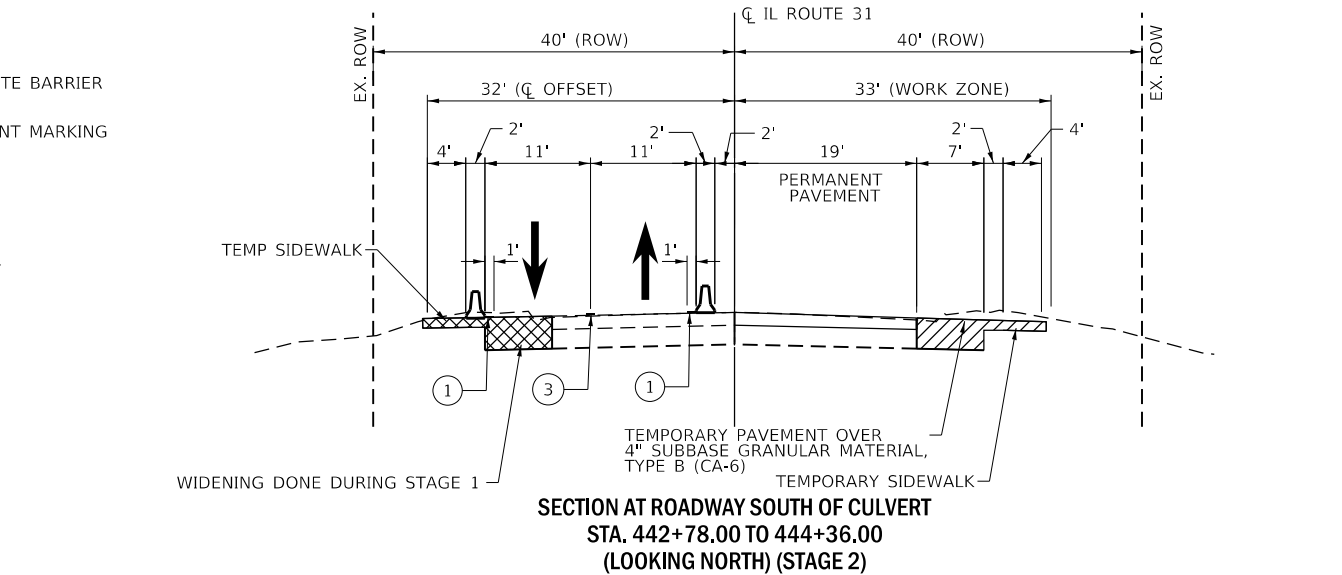
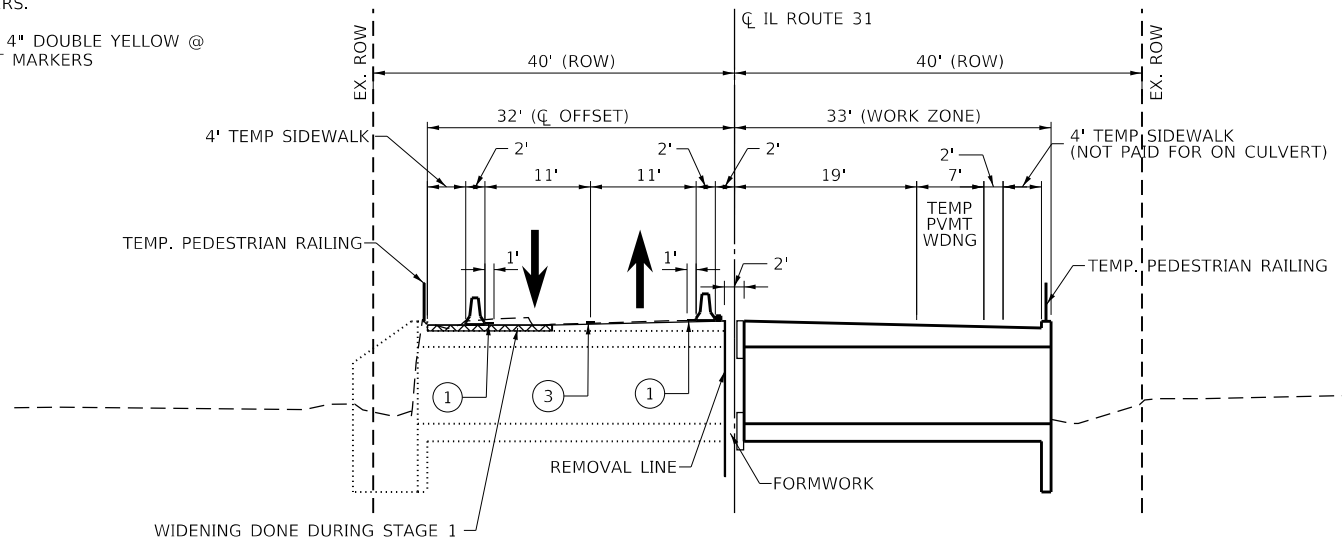
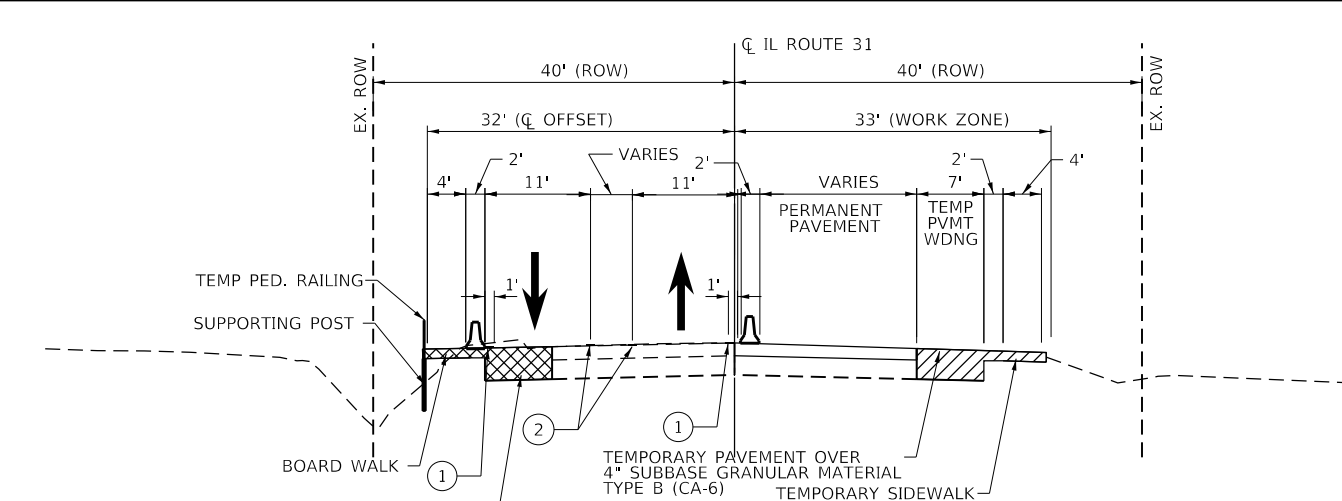
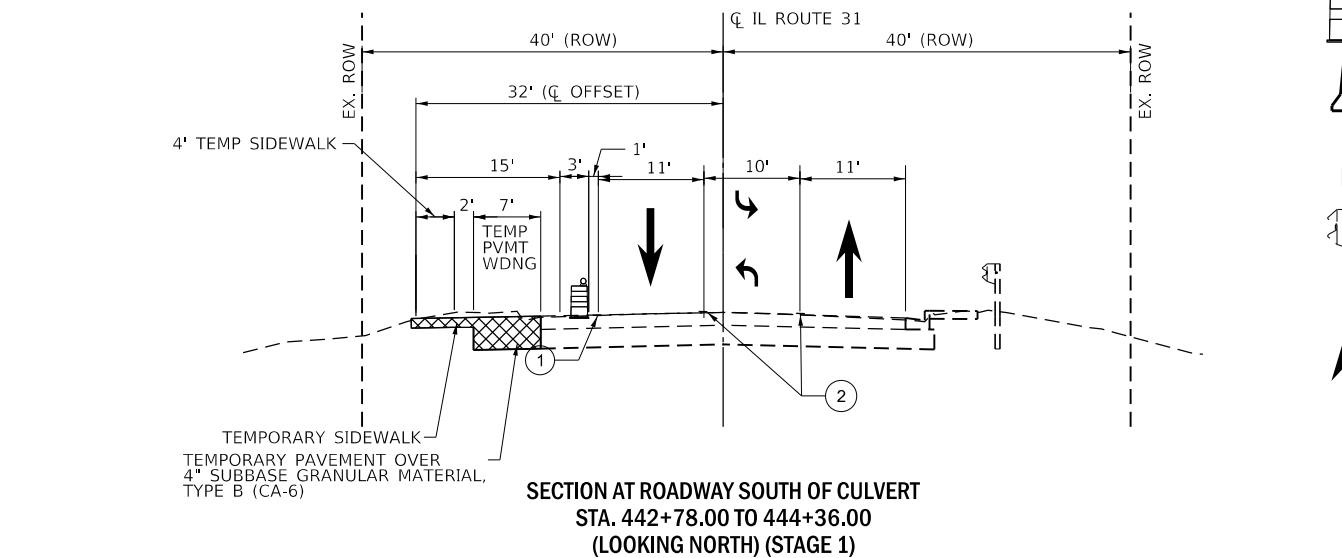
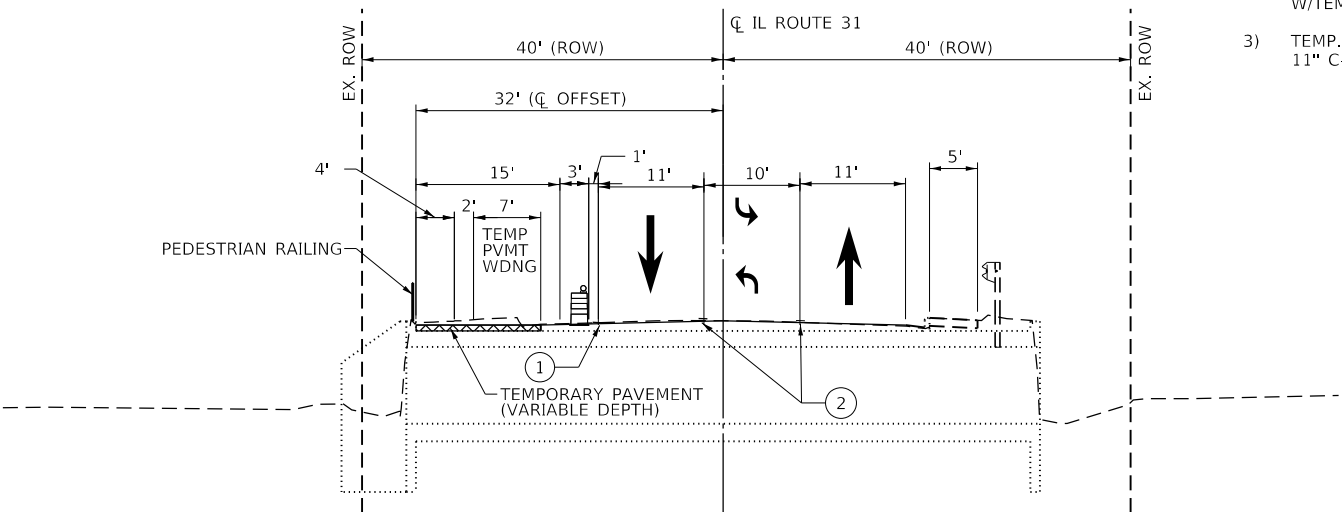
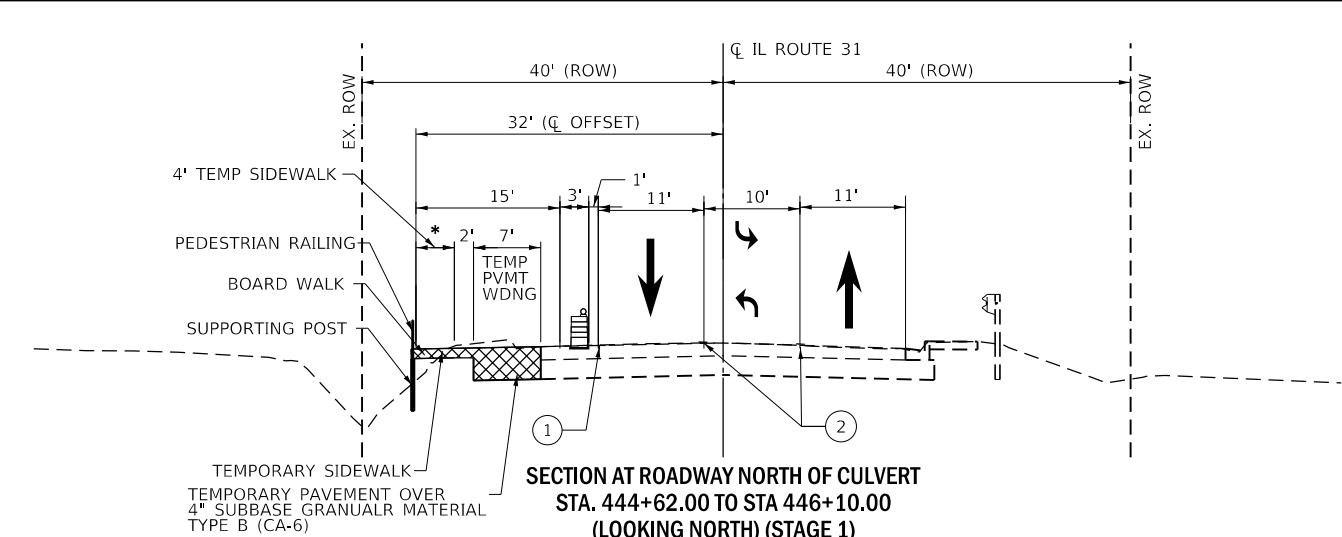
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
TRAFFIC CONTROL GENERAL NOTES

SCALE:	SHEET 1 OF 13 SHEETS	STA. TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	19
		CONTRACT NO. 62G48		
		ILLINOIS	FED. AID PROJECT	





- 1) TEMP. PVMT. MARKING TY. IV TAPE, 4" SOLID WHITE
- 2) TEMP. PVMT MARKING TY. IV TAPE, 4" YELLOW & WHITE W/TEMP. RAISED PAVEMENT MARKERS.
- 3) TEMP. PVMT MARKING TY. IV TAPE, 4" DOUBLE YELLOW @ 11" C-C W/TEMP RAISED PAVEMENT MARKERS

#### LEGEND:

- DRUM
- TEMPORARY CONCRETE BARRIER
- TEMPORARY PAVEMENT MARKING
- BLOCK
- EXISTING GUARDRAIL
- TRAVEL DIRECTION

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL TYPICAL STAGE 1 & 2

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

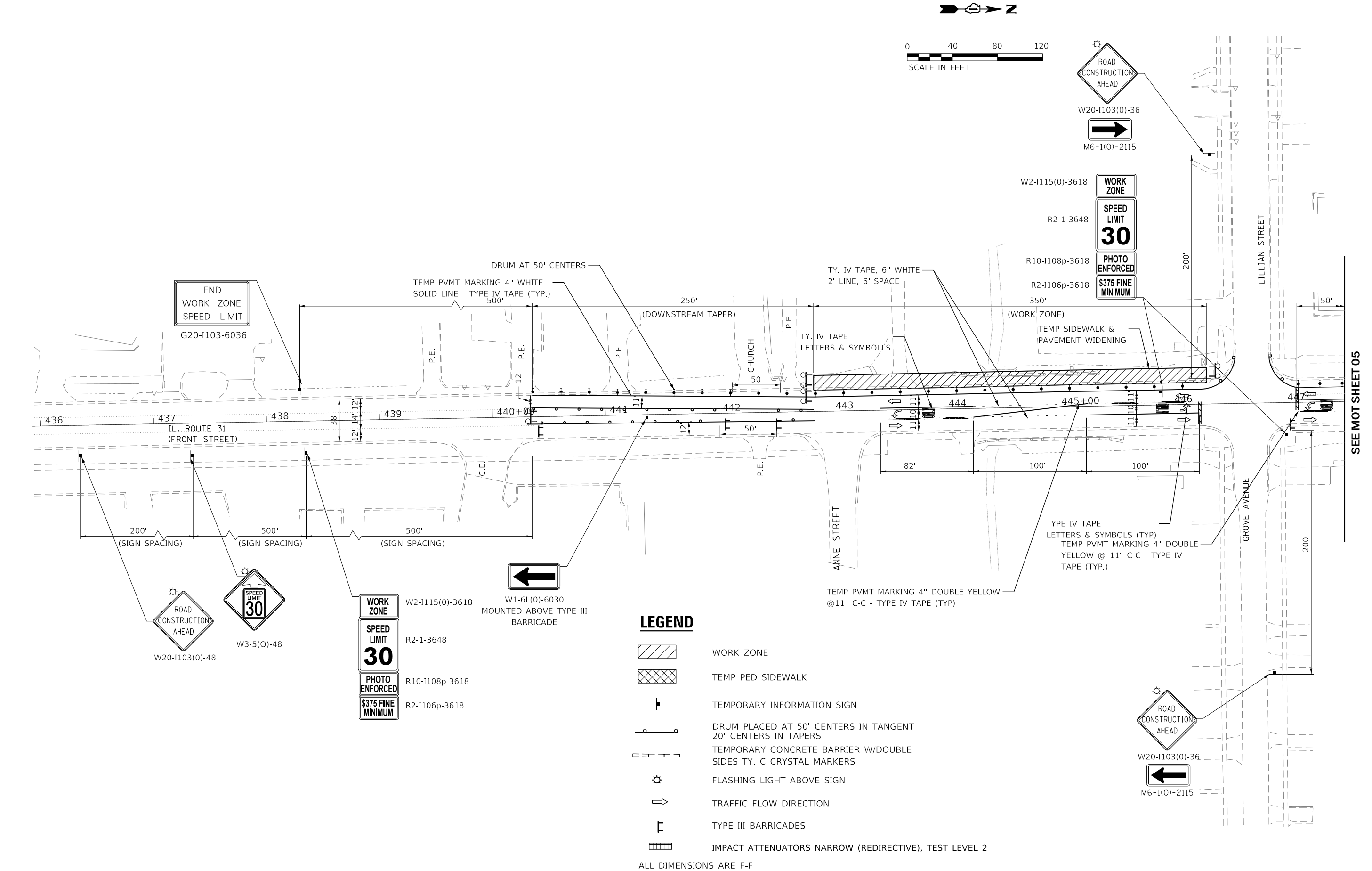
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CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-02









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DEPARTMENT OF TRANSPORTATION

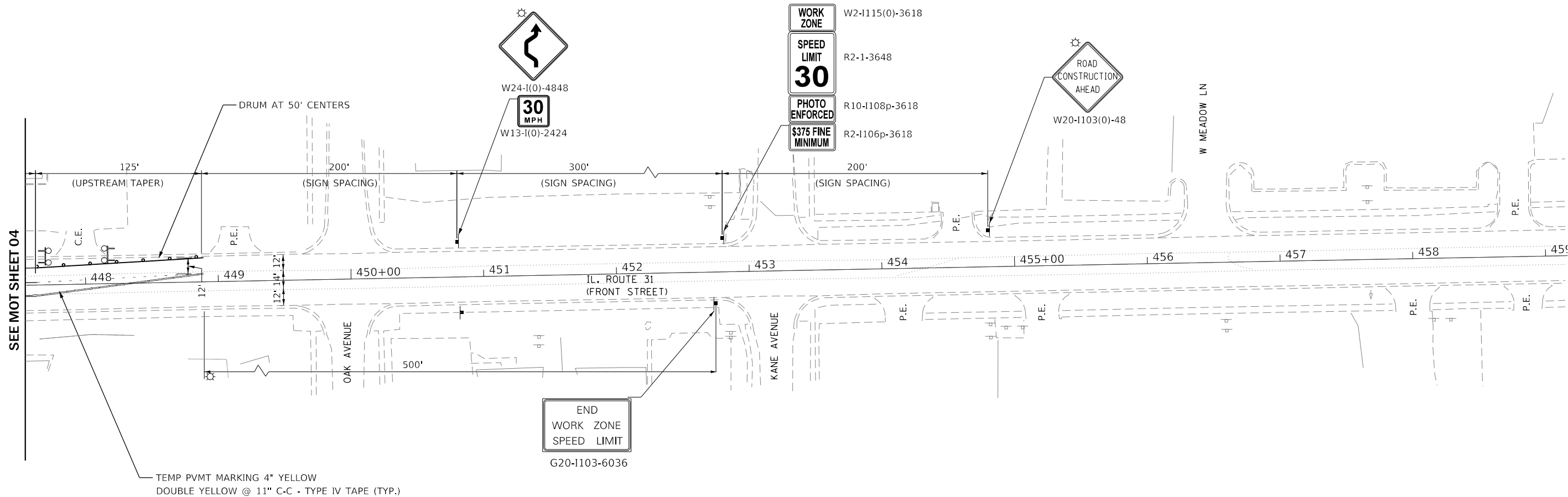
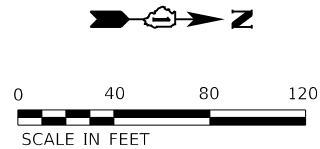
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SUGGESTED TRAFFIC CONTROL PLAN STAGE 1 SHEET 1

SCALE: SHEET 04 OF 13 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	22
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-04





LEGEND

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

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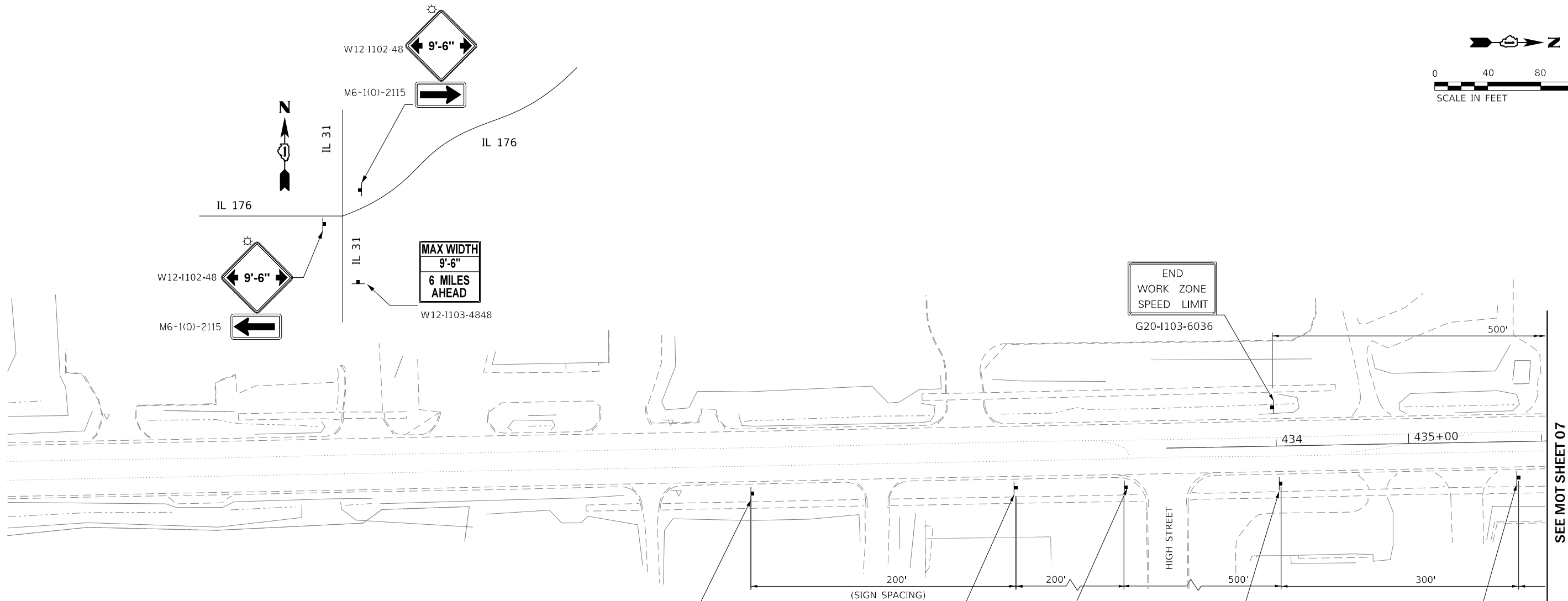
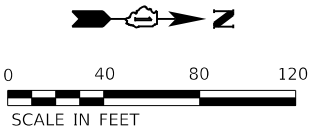
IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 1 SHEET 2

SCALE: SHEET 05 OF 13 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	23
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-05





SEE MOT SHEET 07

LEGEND

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT 20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

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DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 SHEET 1

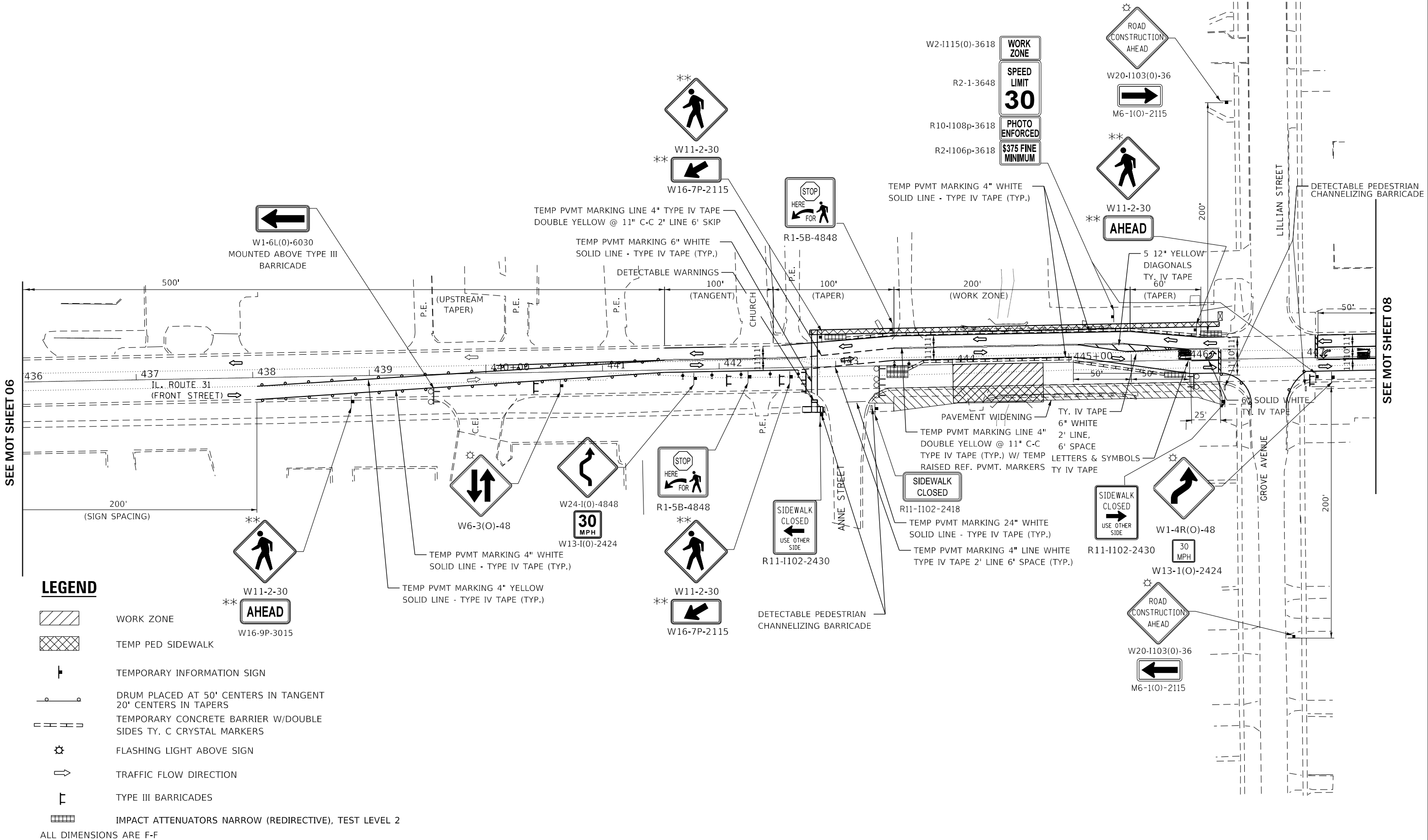
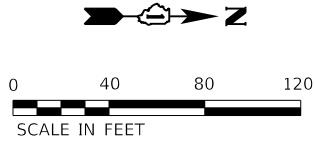
SCALE:	SHEET 06 OF 13 SHEETS	STA. TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	24
CONTRACT NO. 62G48				
ILLINOIS		FED. AID PROJECT		

TC-06



\*\* BLACK ON FLOURESCENT YELLOW-GREEN



**LEGEND**

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE  
SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

MODEL Default  
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**AES**  
ENGINEERS & SURVEYORS

111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

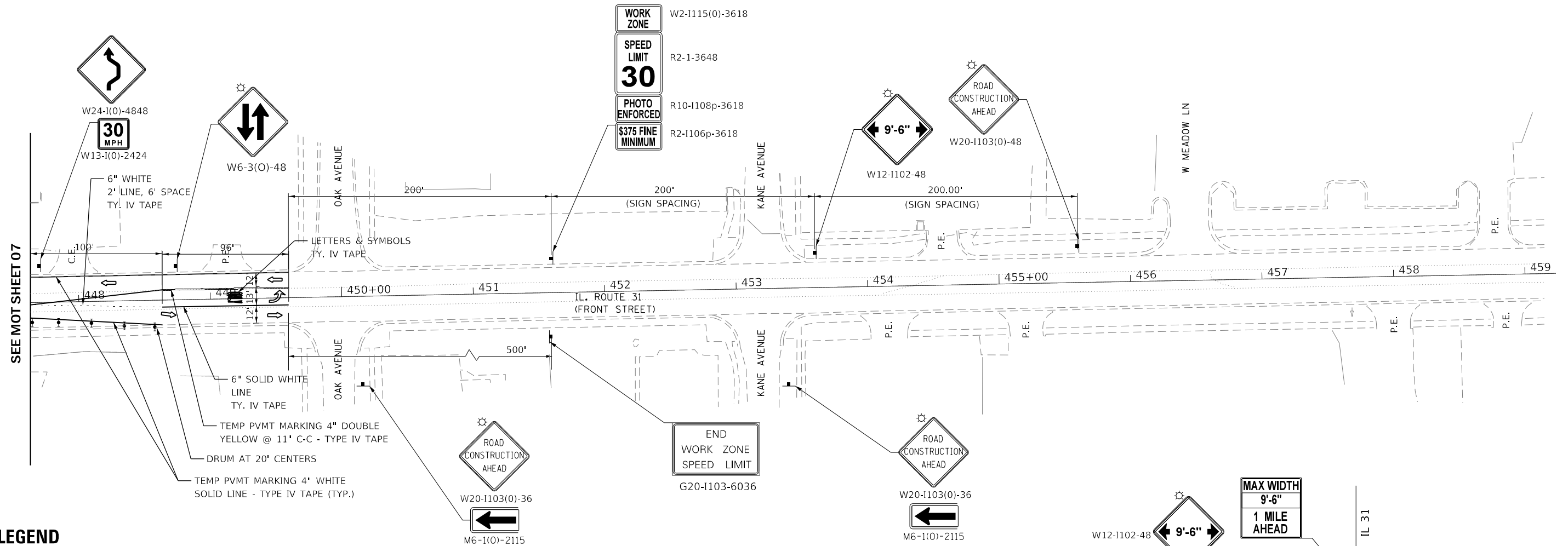
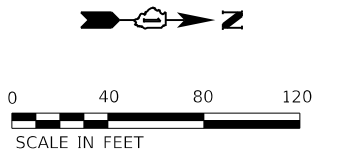
IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 SHEET 2

SCALE: SHEET 07 OF 13 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	25
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-07





LEGEND

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE  
SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

MODEL: Default  
FILE: \\na111\cadd\DOT606\1002\07\_PTB\105\_002\_W07\_62G48\_IL\_31\_Bridge\1CADD\005Sheet26\_D162G48\_Sht\_MOT\_Stage\_2\_Sheet\_3.dgn



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 80,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 1/21/2019	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

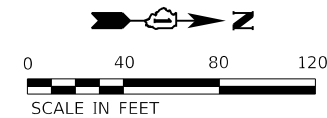
IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 SHEET 3

SCALE: SHEET 08 OF 13 SHEETS STA. TO STA.

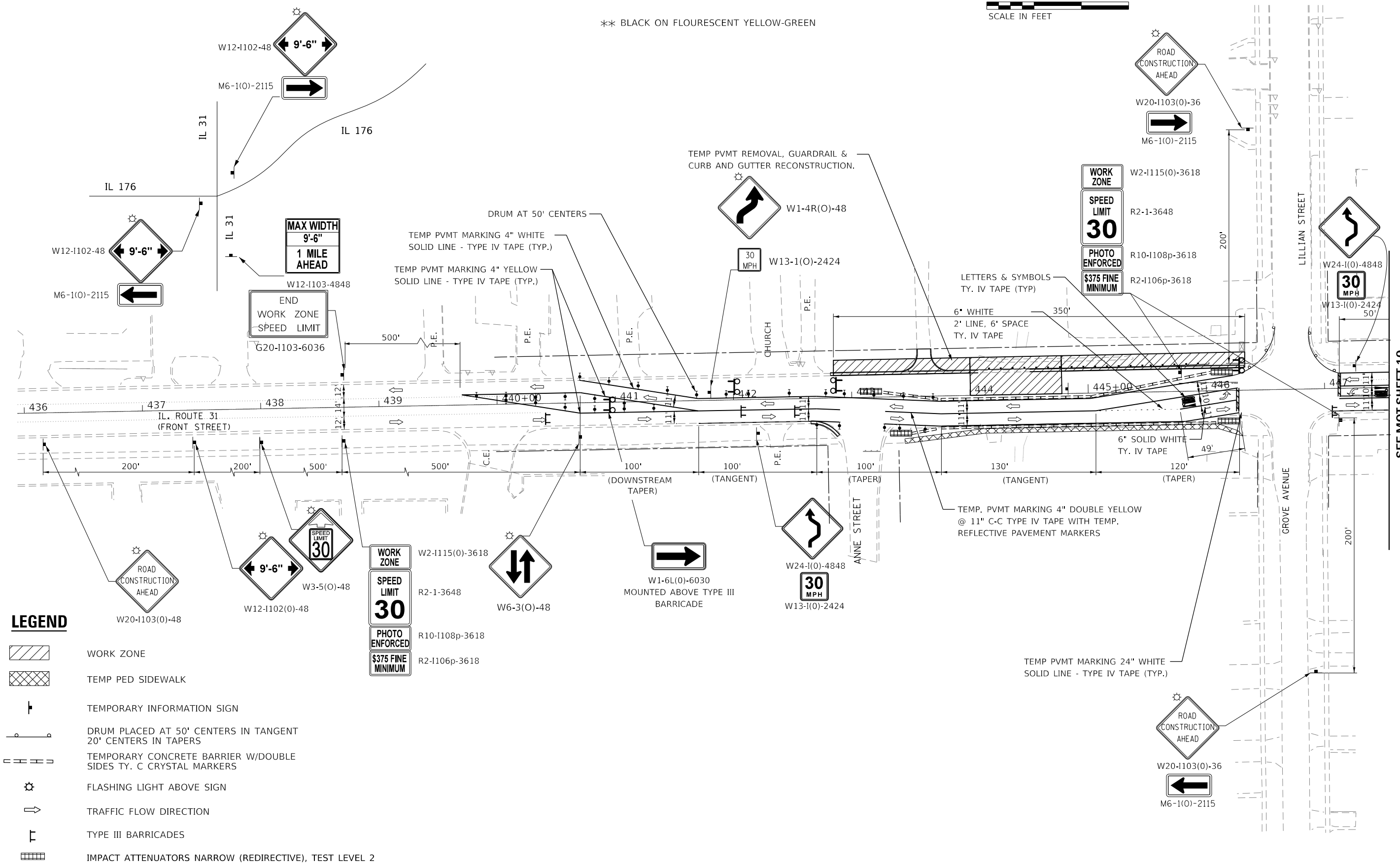
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	26
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-08





\*\* BLACK ON FLOURESCENT YELLOW-GREEN



**LEGEND**

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

MODEL: Default  
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USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 80,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 1/21/2019	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 3 SHEET 1

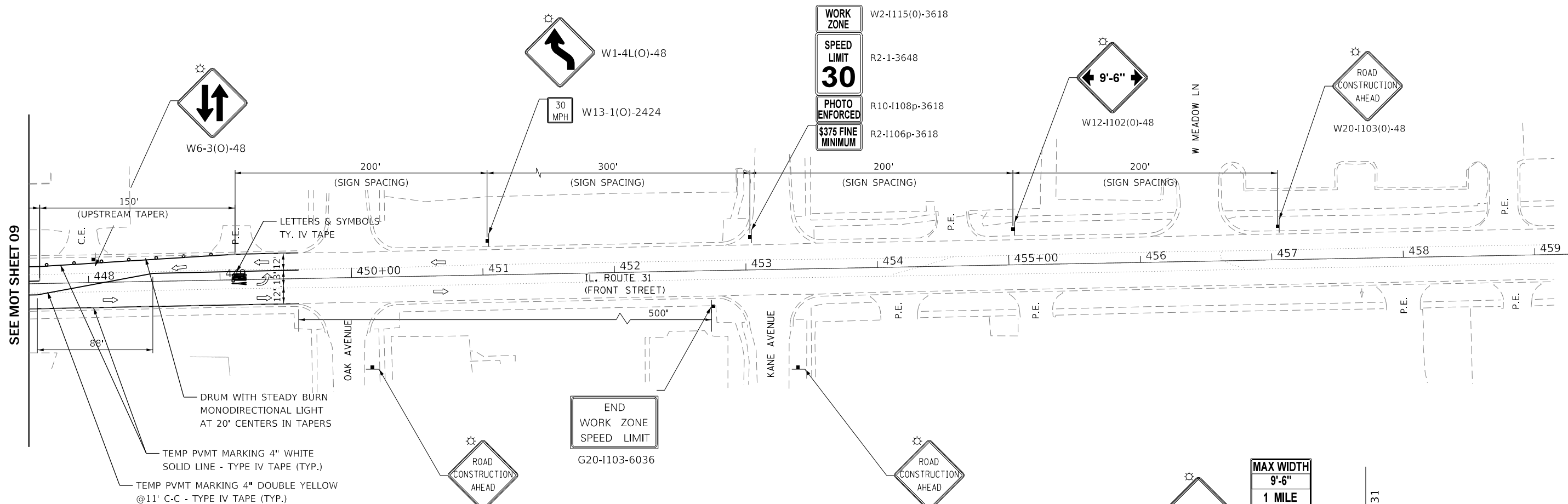
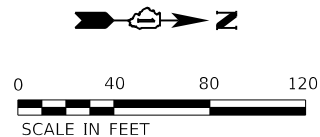
SCALE: SHEET 09 OF 13 SHEETS STA. TO STA.

F.A.U. RTE. 336A	SECTION 2018-056-DR-7	COUNTY MCHENRY	TOTAL SHEETS 71	SHEET NO. 27
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

SEE MOT SHEET 10

TC-09





### LEGEND

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE  
SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

MODEL: Default  
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Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME	= mokrent	DESIGNED -	TOM	REVISED -	
DRAWN -	TOM	REVIS	ED -		
PLOT SCALE	= 80.0000 ' / in.	CHECKED -	MO	REVIS	ED -
PLOT DATE	= 1/21/2019	DATE	= 11/19/2018	REVIS	ED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

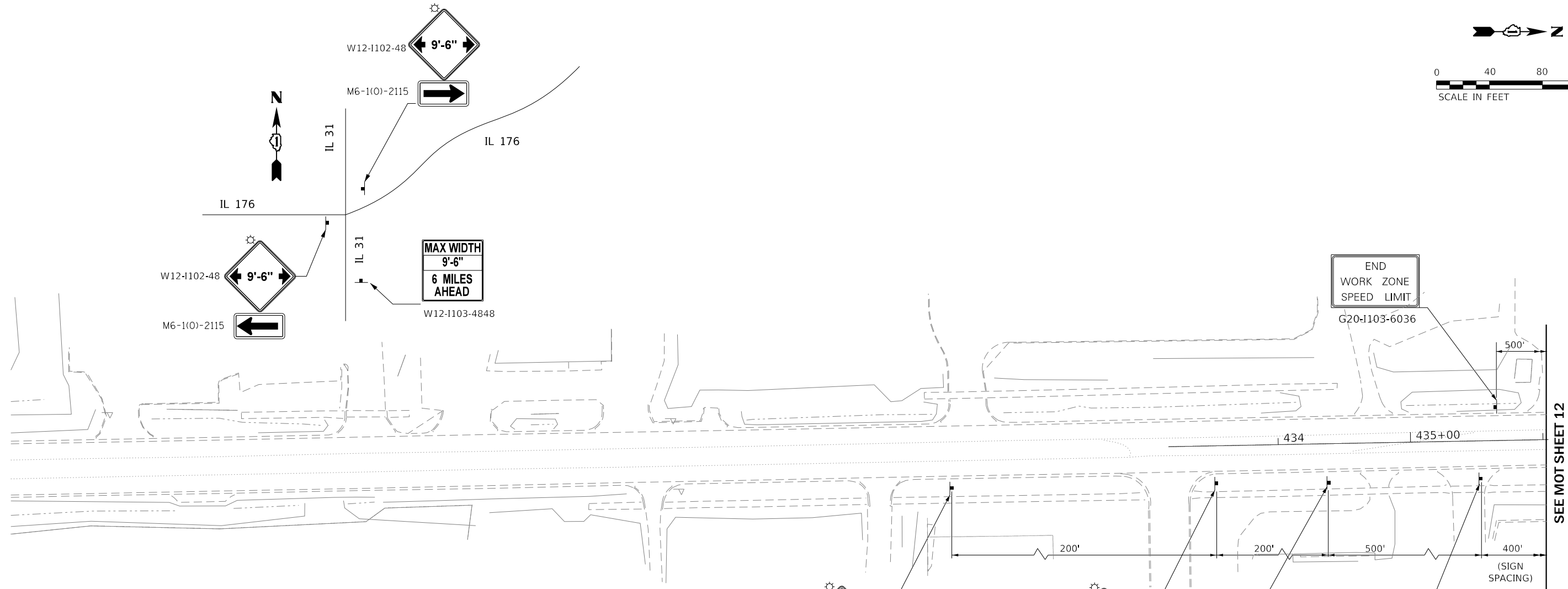
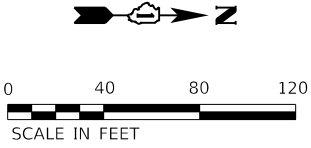
### IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER SUGGESTED TRAFFIC CONTROL PLAN STAGE 3 SHEET 2

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	28
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-10

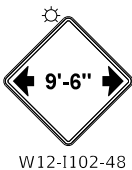




**LEGEND**

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE  
SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F



SEE MOT SHEET 12

MODEL Default  
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USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVIS	ED -
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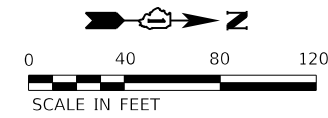
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 4 SHEET 1

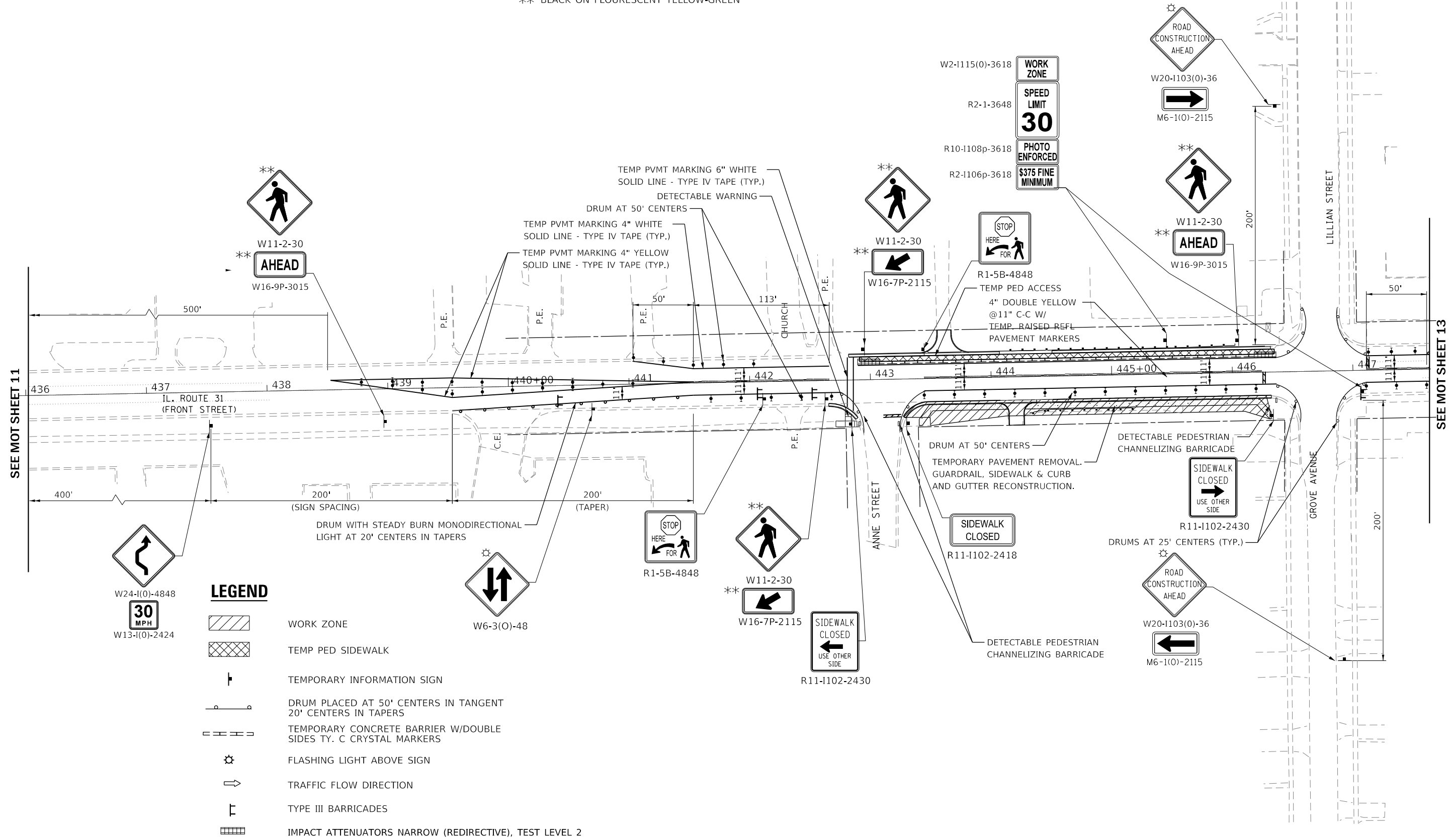
SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	29
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				





\*\* BLACK ON FLOURESCENT YELLOW-GREEN



ALL DIMENSIONS ARE F-F

MODEL: Default  
FILE: \\nautilus\work\DOT\60618002\07\_PTB\185\_002\_W07\_62G48\_IL\_31\_Bridge\01CADD\08Sheet30\_D162G48\_Sht\_MOT\_Stage\_4\_Sheet\_2.dgn



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Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 80.0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 1/22/2019	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

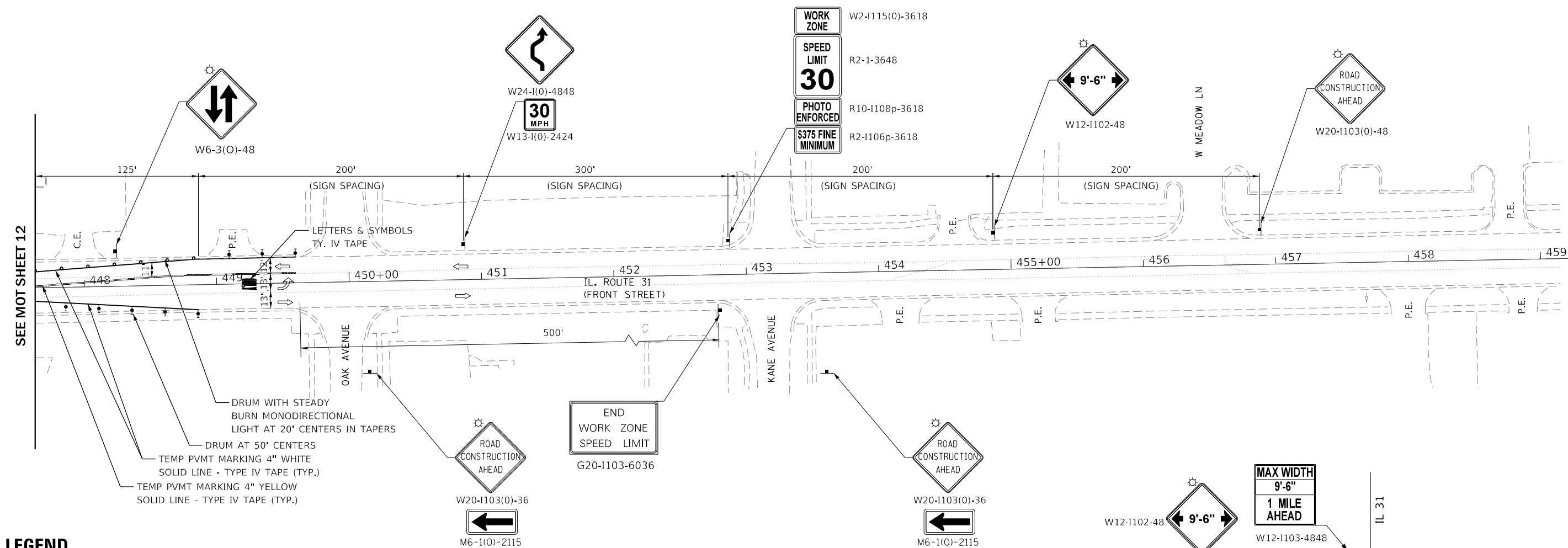
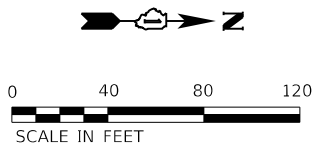
IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 4 SHEET 2

SCALE: SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	30
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-12





**LEGEND**

- WORK ZONE
- TEMP PED SIDEWALK
- TEMPORARY INFORMATION SIGN
- DRUM PLACED AT 50' CENTERS IN TANGENT  
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER W/DOUBLE  
SIDES TY. C CRYSTAL MARKERS
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2

ALL DIMENSIONS ARE F-F

MODEL Default  
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USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 80,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 1/21/2019	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 4 SHEET 3

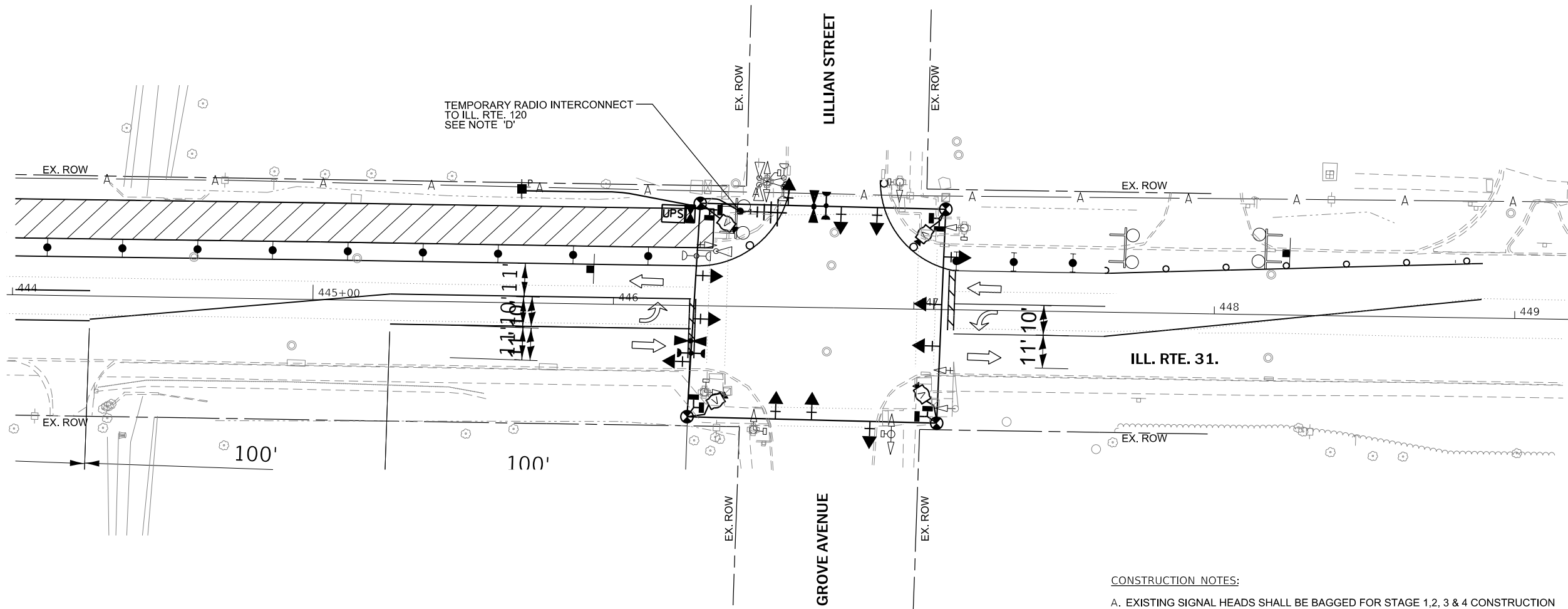
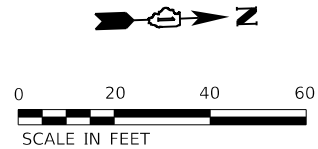
SCALE: SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	31
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TC-13



1.  
2.  
  
3.  
  
4.  
5.  
6.  
7.  
8.  
9.  
10.



CONSTRUCTION NOTES:

- A. EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1, 2, 3 & 4 CONSTRUCTION
- B. CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
- C. PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE. CONTRACTOR SHALL COORDINATE WITH COMED.
- D. SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

MODEL: Default  
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Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 40,000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/12/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

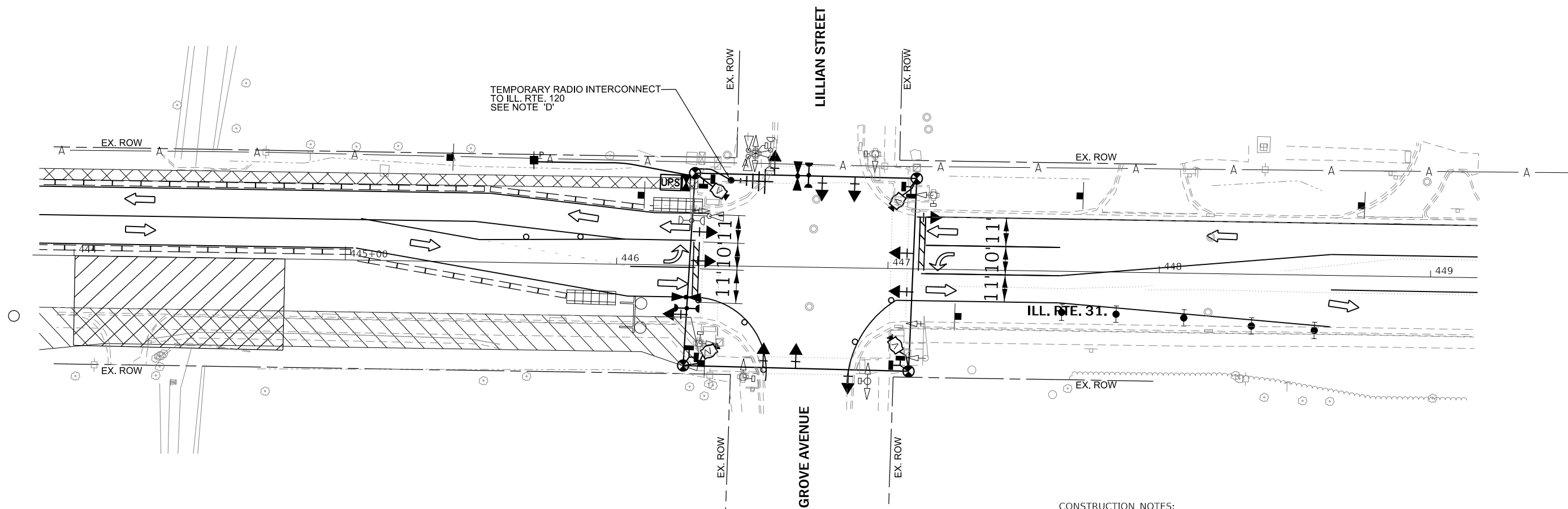
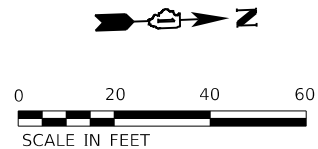
IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
IL ROUTE 31 & GROVE AVE  
TEMPORARY TRAFFIC SIGNAL - STAGE 1

SCALE: SHEET 01 OF 05 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	32
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TS-01





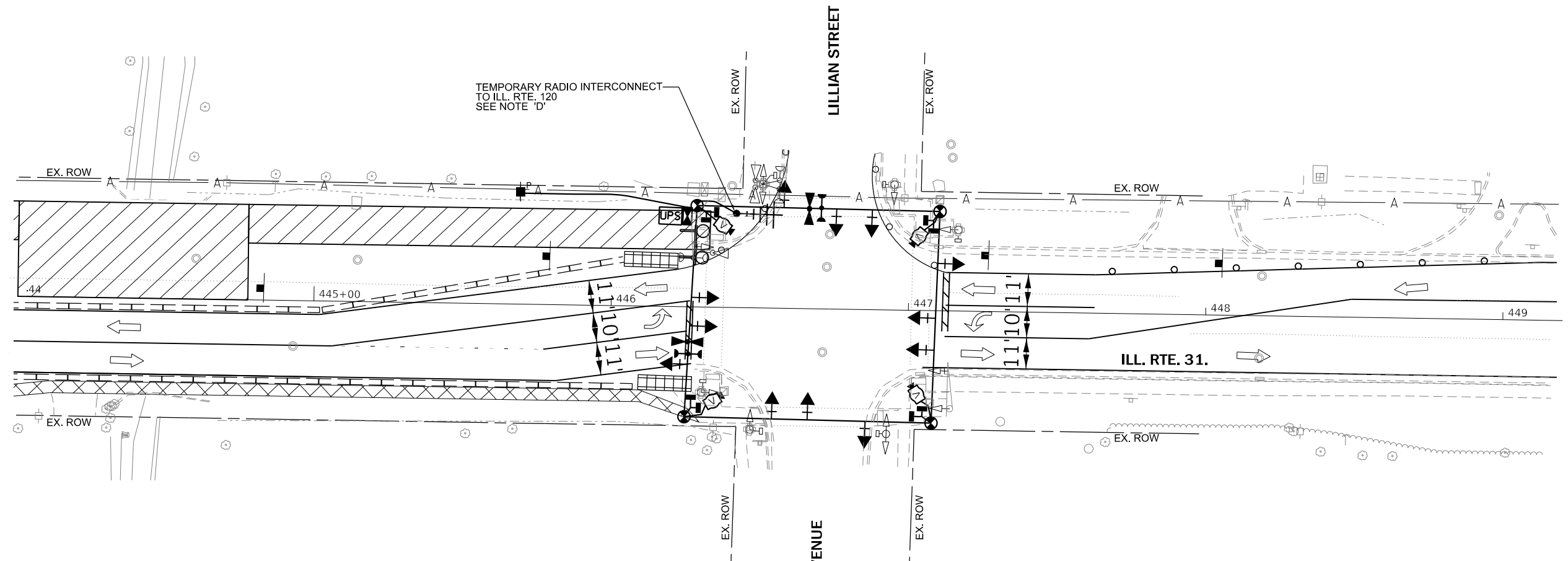
STAGE 2

- CONSTRUCTION NOTES:
- A. EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1,2, 3 & 4 CONSTRUCTION
  - B. CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
  - C. PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE.CONTRACTOR SHALL COORDINATE WITH COMED.
  - D. SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

MODEL: Default  
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 <b>AES</b> ENGINEERS & SURVEYORS	111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783	USER NAME = mokrent	DESIGNED - TOM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER</b> <b>IL ROUTE 31 &amp; GROVE AVE</b> <b>TEMPORARY TRAFFIC SIGNAL - STAGE 2</b>				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE = 40,000' / in.	CHECKED - MO	REVISED -						336A	2018-056-DR-7	MCHENRY	71	33
		PLOT DATE = 12/12/2018	DATE - 11/19/2018	REVISED -						CONTRACT NO. 62G48				
						SCALE:	SHEET 02 OF 05 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			

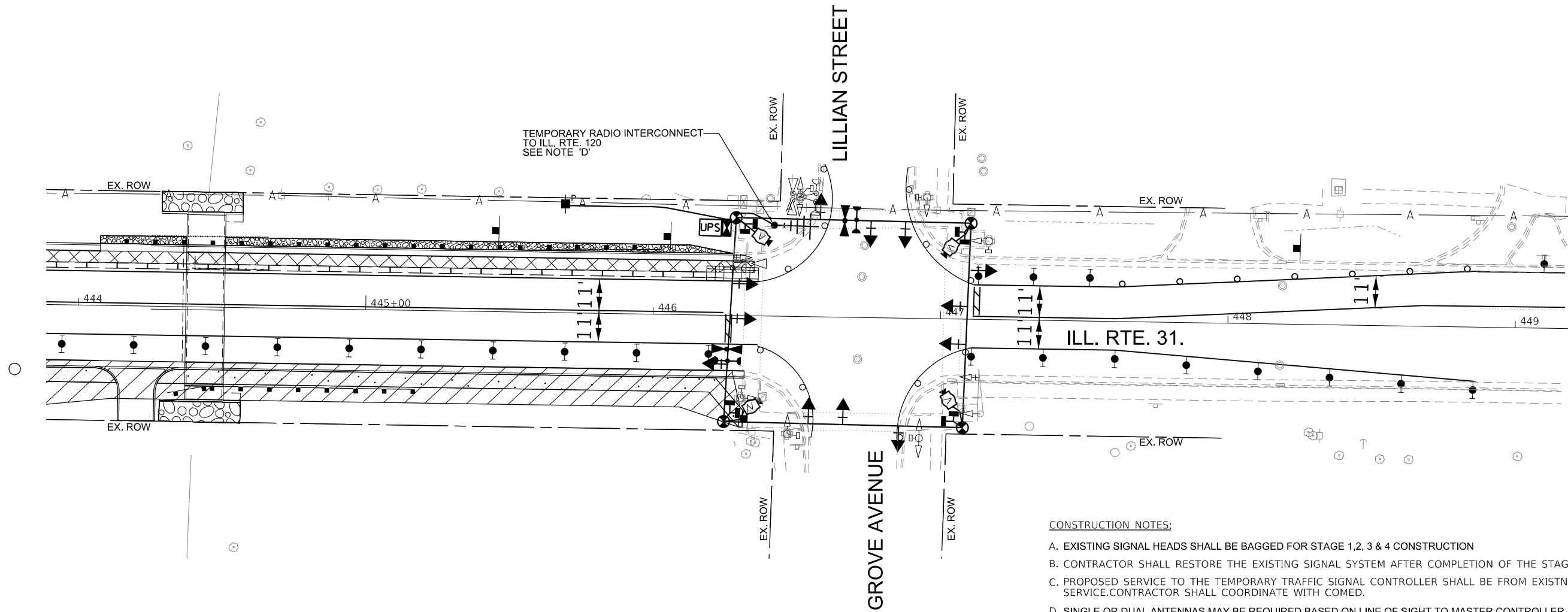
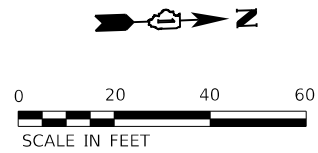




- A. EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1,2, 3 & 4 CONSTRUCTION
- B. CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
- C. PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE.CONTRACTOR SHALL COORDINATE WITH COMED.
- D. SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	34
		CONTRACT NO. 62G48		
		ILLINOIS	FED. AID PROJECT	





- CONSTRUCTION NOTES:
- A. EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1,2, 3 & 4 CONSTRUCTION
  - B. CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
  - C. PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTNG COMED SERVICE.CONTRACTOR SHALL COORDINATE WITH COMED.
  - D. SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

STAGE 4

MODEL: Default  
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**AES**  
ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 40,000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/12/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
IL ROUTE 31 & GROVE AVE  
TEMPORARY TRAFFIC SIGNAL - STAGE 4

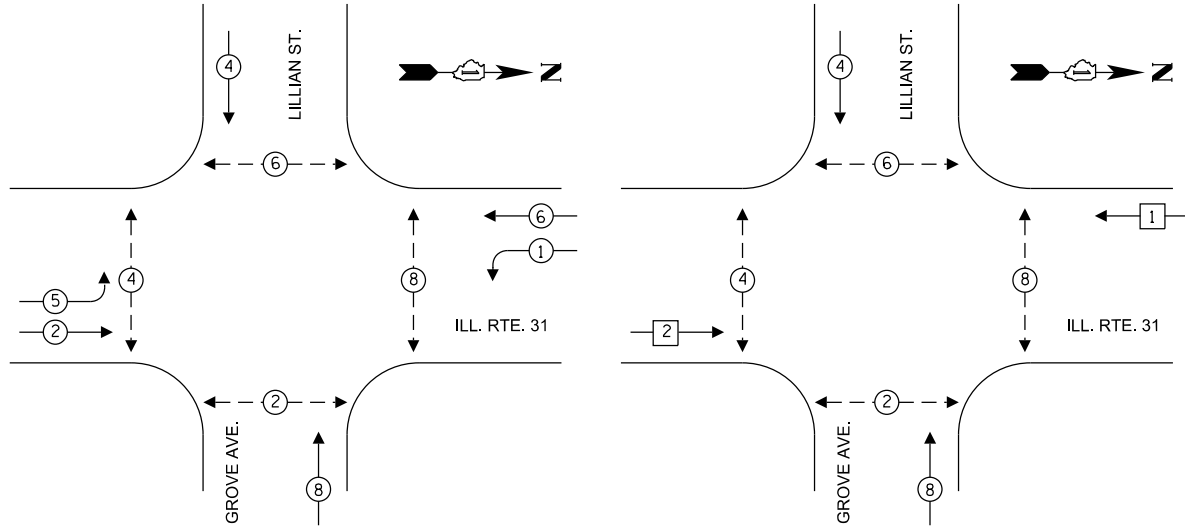
SCALE: SHEET 04 OF 05 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	35
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TS-04



TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM  
STAGE 1,2 & 3

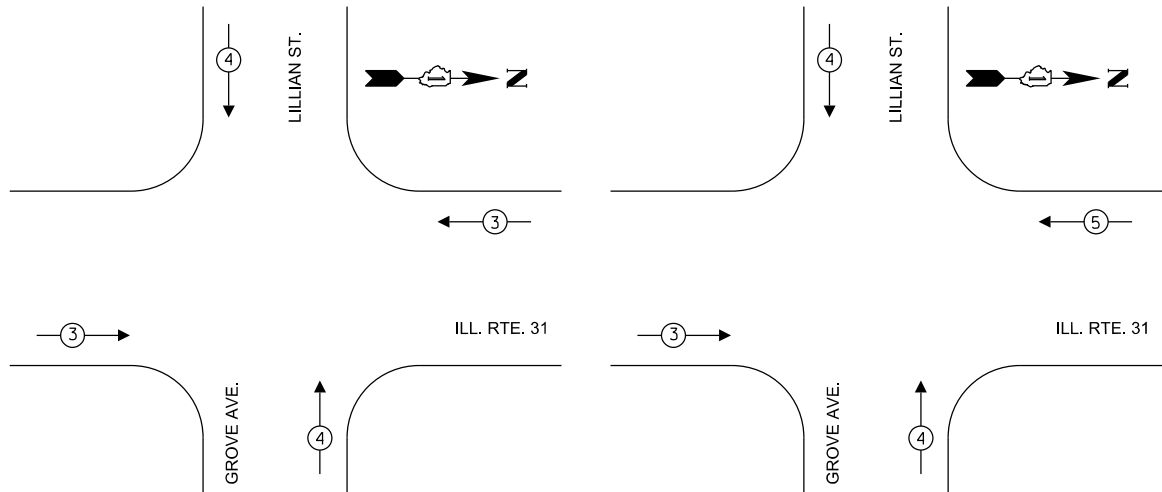
N.T.S.

TEMPORARY PHASE DESIGNATION DIAGRAM  
STAGE 4

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



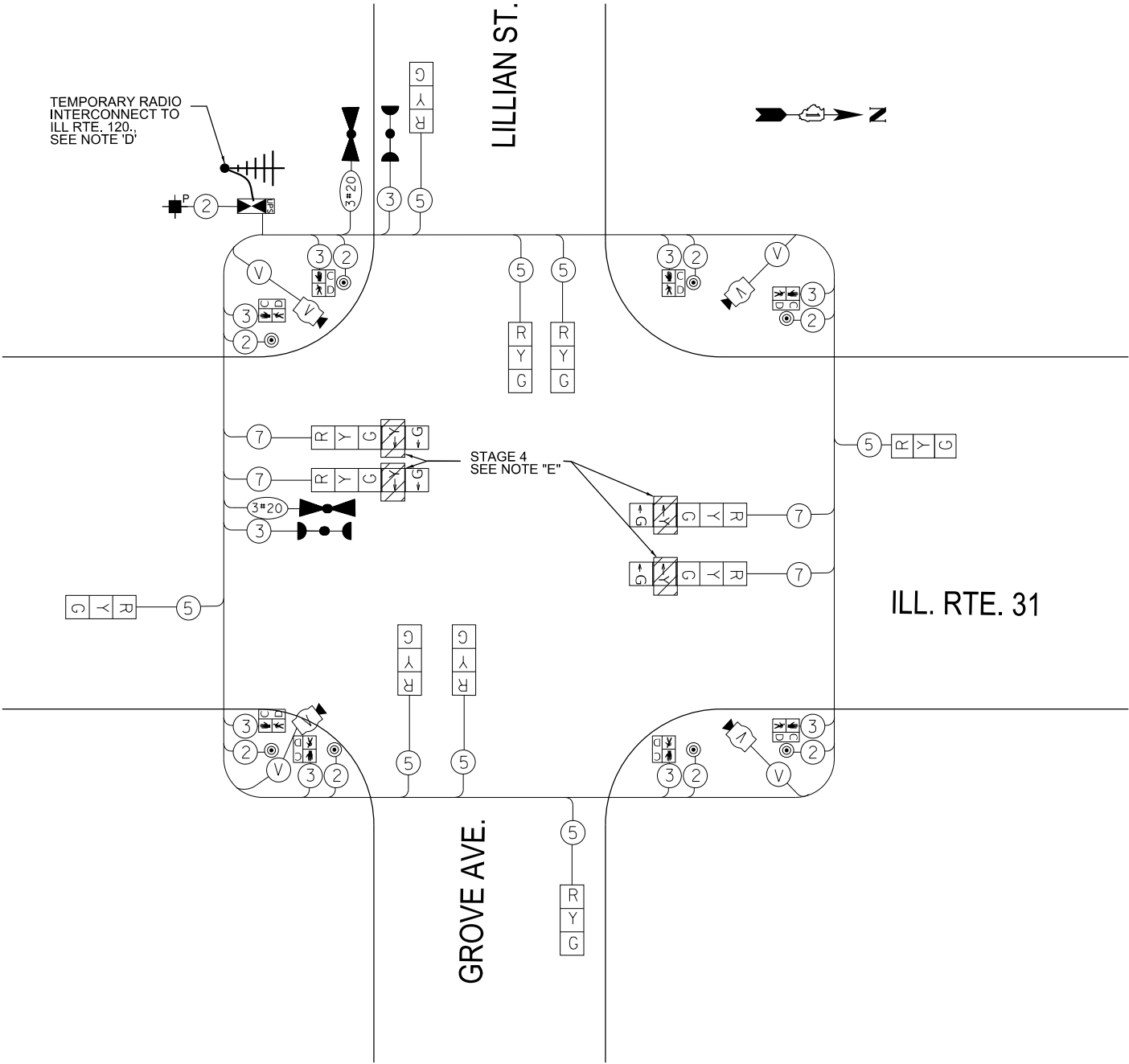
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100.00	1.00	100.00
ILLUM. SIGN	-		-	-	-
VIDEO SYSTEM	1	150.00	-	1.00	150.00
FLASHER					
ENERGY COSTS TO:					TOTAL = 681.60
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: STEVE FITZGERALD					
PHONE: (708) 235-2327					
COMPANY: ComEd					

RESTORATION OF WORK AREA:

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED .ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



TEMPORARY CABLE PLAN

STAGE 1,2,3 & 4

CONSTRUCTION NOTES:

- EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1 & 2 CONSTRUCTION.
- CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION.
- PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE.CONTRACTOR SHALL COORDINATE WITH COMED.
- SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.
- DISCONNECT AND BAG YELLOW LEFT TURN LANE SIGNAL HEAD FOR STAGE 4 CONSTRUCTION.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
TEMPORARY CABLE PLAN, PHASE DESIGNATION  
DIAGRAM & EVP SEQUENCE

SCALE: SHEET 05 OF 05 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	36
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

TS-05

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111 S. Wacker Drive,  
Suite 3910  
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Ph: 312-235-6783

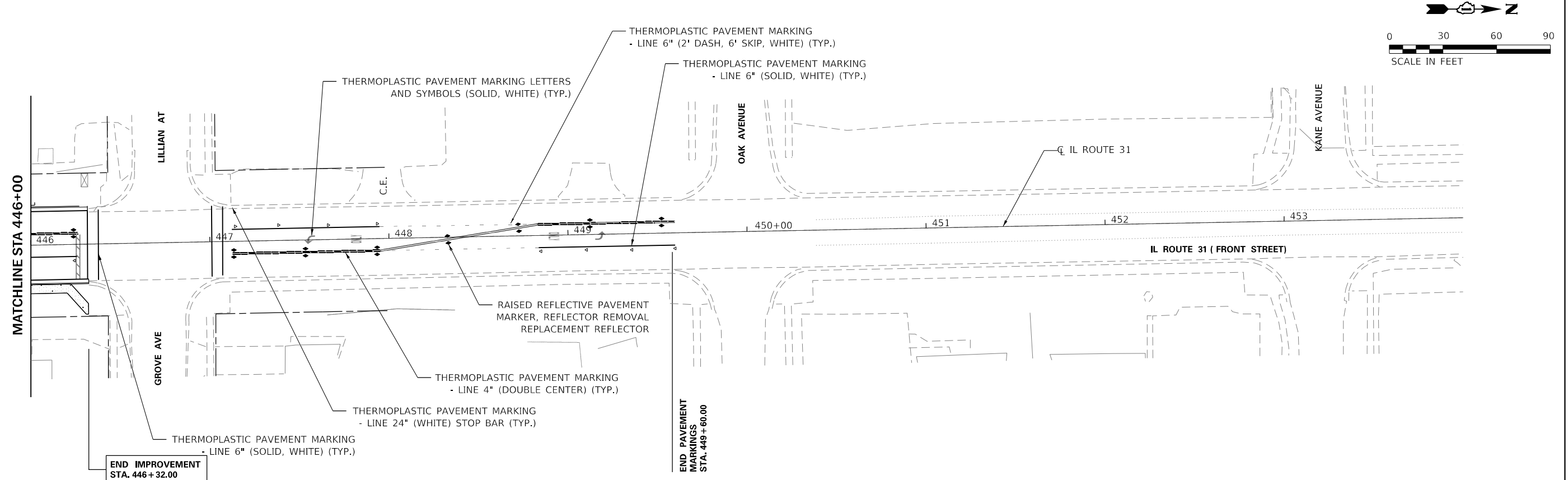
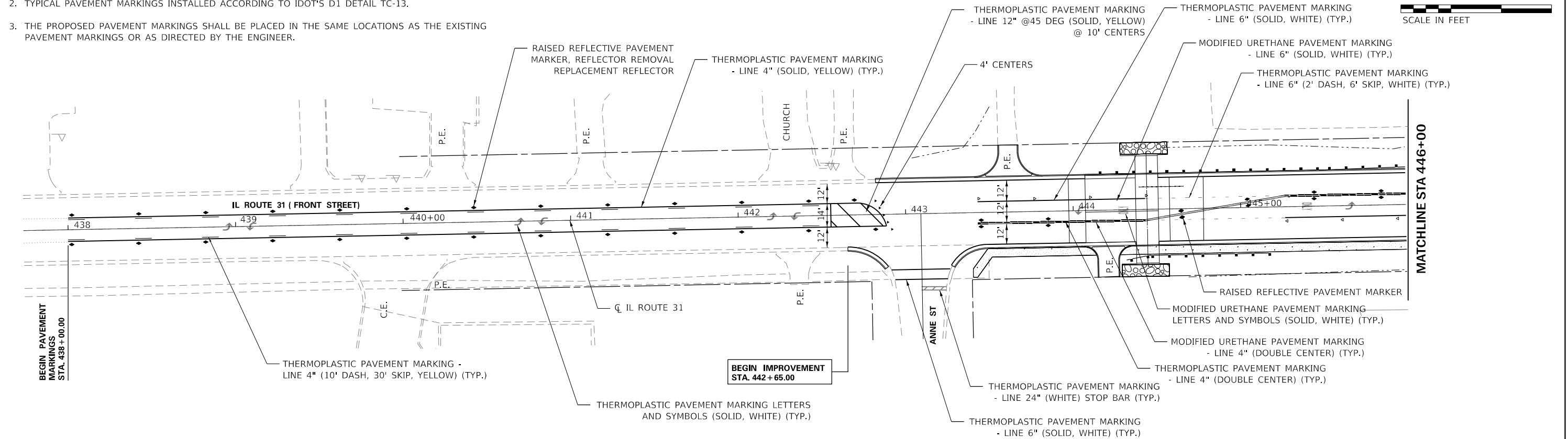
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DESIGNED	- TOM
DRAWN	- TOM
CHECKED	- MO
DATE	- 11/19/2018

REVISED	-
REVISED	-
REVISED	-
REVISED	-

PLOT SCALE	= 40,000 ' / in.
PLOT DATE	= 1/17/2019



3. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.



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Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 60,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/12/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

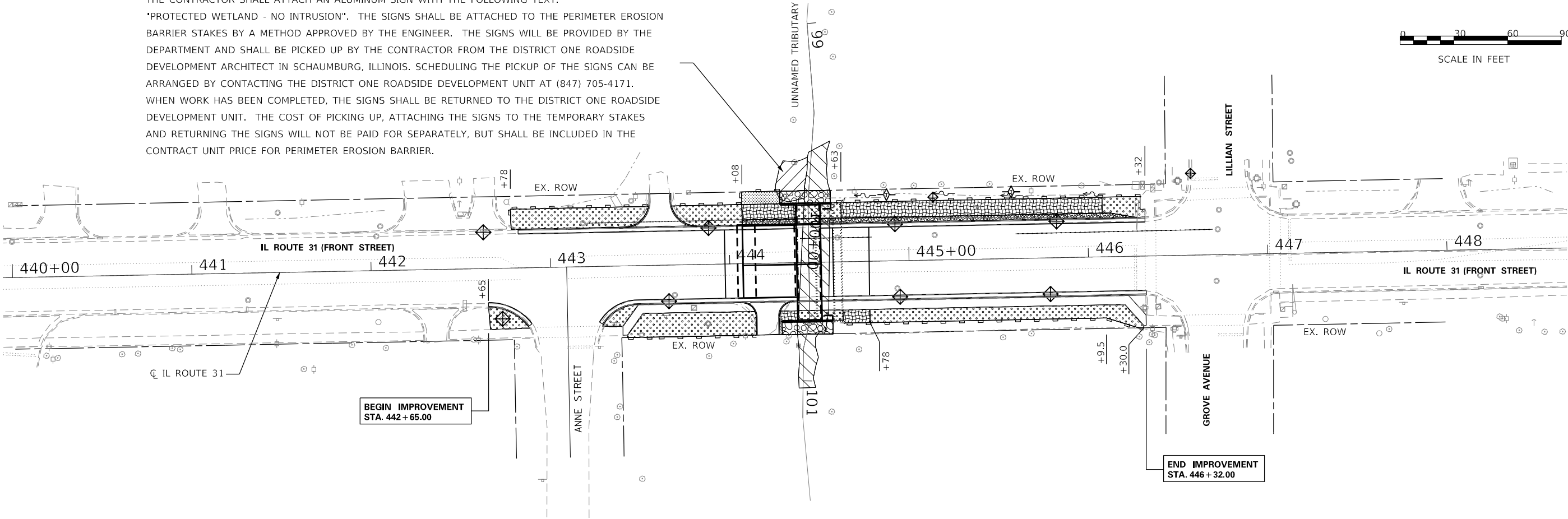
## IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER PAVEMENT MARKING PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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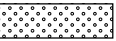
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62G48		
ILLINOIS		FED. AID PROJECT		

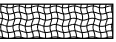


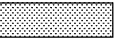
WETLAND AREA: NO INTRUSION BEYOND RIGHT-OF-WAY  
THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT:  
"PROTECTED WETLAND - NO INTRUSION". THE SIGNS SHALL BE ATTACHED TO THE PERIMETER EROSION BARRIER STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGNS WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGNS 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.




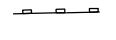
LEGEND


- 

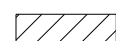
SEEDING CLASS 2A, MULCH METHOD 2
- 

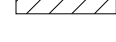
HEAVY DUTY EROSION CONTROL BLANKET, SEEDING CLASS 2A
- 

HEAVY DUTY EROSION CONTROL BLANKET, SEEDING CLASS 4B
- 

INLET FILTERS/ INLET AND PIPE PROTECTION
- 

PERIMETER EROSION BARRIER
- 

STONE RIPRAP, CLASS A3 W/FILTER FABRIC
- 

WETLANDS
- 

SURFACE WATER

NOTES:

- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
- DIRECT OR INDIRECT PUMPING OF SEDIMENT LADEN WATER INTO STORM WATER FACILITY WITHOUT FILTRATION IS PROHIBITED.
- RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES SHOWN IN IDOT STD. 280001, AND/OR NRCS DETAILS FROM THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL.
- THE CONTRACTOR SHALL SURROUND ANY NECESSARY STOCKPILES WITH PERIMETER EROSION BARRIER. LOCATION TO BE APPROVED BY THE ENGINEER.
- HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED FOR COVERING SLOPES STEEPER THAN 3H:1V.

IN-STREAM/WETLAND WORK NOTES

- THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT MUST BE FOLLOWED. THE COST OF ALL MATERIAL AND LABOR NECESSARY TO COMPLY WITH THE 404 PERMIT 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.
- IN ACCORDANCE WITH THE 404 PERMIT, THE PROJECT WILL REQUIRE AN IN-STREAM WORK PLAN WITHIN THE UNNAMED TRIBUTARY OF THE FOX RIVER AND INCLUDING WORK WITHIN THE WETLANDS. THE CONTRACTOR SHALL PROVIDE THIS PLAN TO THE DEPARTMENT FOR APPROVAL PRIOR TO STARTING CONSTRUCTION. 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. THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE PREPARATION AND IMPLEMENTATION OF THE IN-STREAM WORK PLAN (INCLUDING WORK WITHIN THE WETLANDS) 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.
- ANY COFFERDAMS OR DIVERSIONS SHALL BE DESIGNED TO CONVEY THE 2-YEAR FLOW PAST THE WORK AREA WITHOUT OVERTOPPING. MATERIAL AND DESIGN SHALL BE PROVIDED TO THE USACE PRIOR TO STARTING CONSTRUCTION.
- ALL TEMPORARY CONSTRUCTION ACTIVITIES WITHIN THE UNNAMED TRIBUTARY MUST ADHERE TO THE REQUIREMENTS OF THE REGIONAL PERMIT 7.

MODEL: Default  
FILE: \\NAME: \\000DOT60610002.07\_PTB105\_002\_W07\_62G48\_IL\_31\_Bridge01CADD005Sheet38.D162G48\_Sht Erosion Control.dgn

 <div>111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783</div>	USER NAME = mokrent		DESIGNED - TOM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER EROSION CONTROL PLAN		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - TOM		CHECKED - MO	REVISED -				336A	2018-056-DR-7	MCHENRY	71	38
	PLOT SCALE = 60,0000 ' / in.		DATE - 11/19/2018	REVISED -				CONTRACT NO. 62G48				
	PLOT DATE = 12/12/2018			REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.						



Benchmark: "I" in SE corner of concrete base of traffic signal in NW corner of IL 31 and Lillian St.  
Northing: 2065120.91  
Easting: 1000120.36  
Elevation NGVD 88: 754.47

Existing Structure: S. No. 056-0227 consists of two single cell reinforced concrete box culverts of size 10'x4' and 4'x1.5' separated by 9'-3" with shared wingwalls and headwalls between them.

It is unknown when the original box culverts were constructed. In 1985 the culverts were lengthened by 10 feet on each end. The box culvert has an end to end length of 66 feet.

The existing 10'x4' cell be removed and replaced with a 12.5'x5' cell. The 4'x1.5' cell will remain in place. Construction will be performed in stages while maintaining two lanes of traffic, one in each direction and a sidewalk.

No Salvage.

Precast option is not allowed.

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

**DESIGN STRESSES**  
**FIELD UNITS**

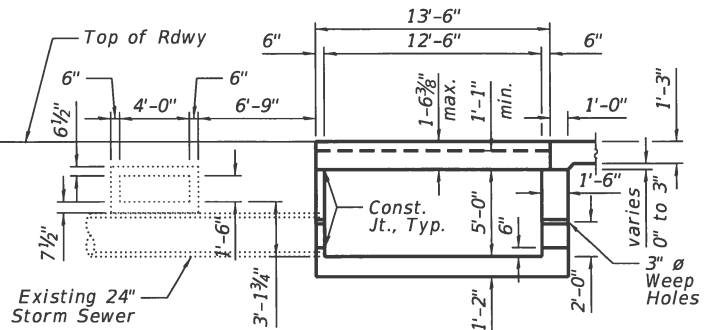
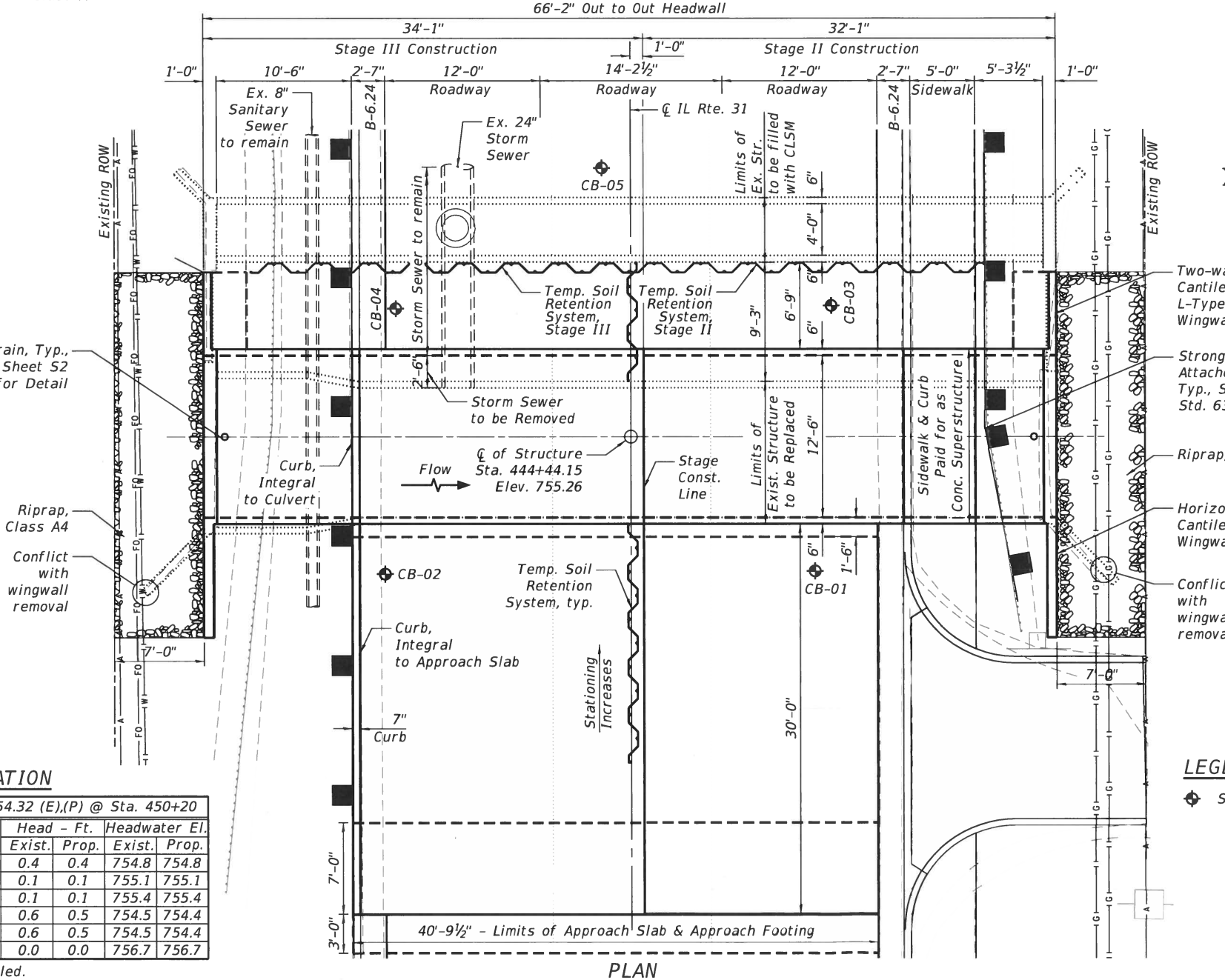
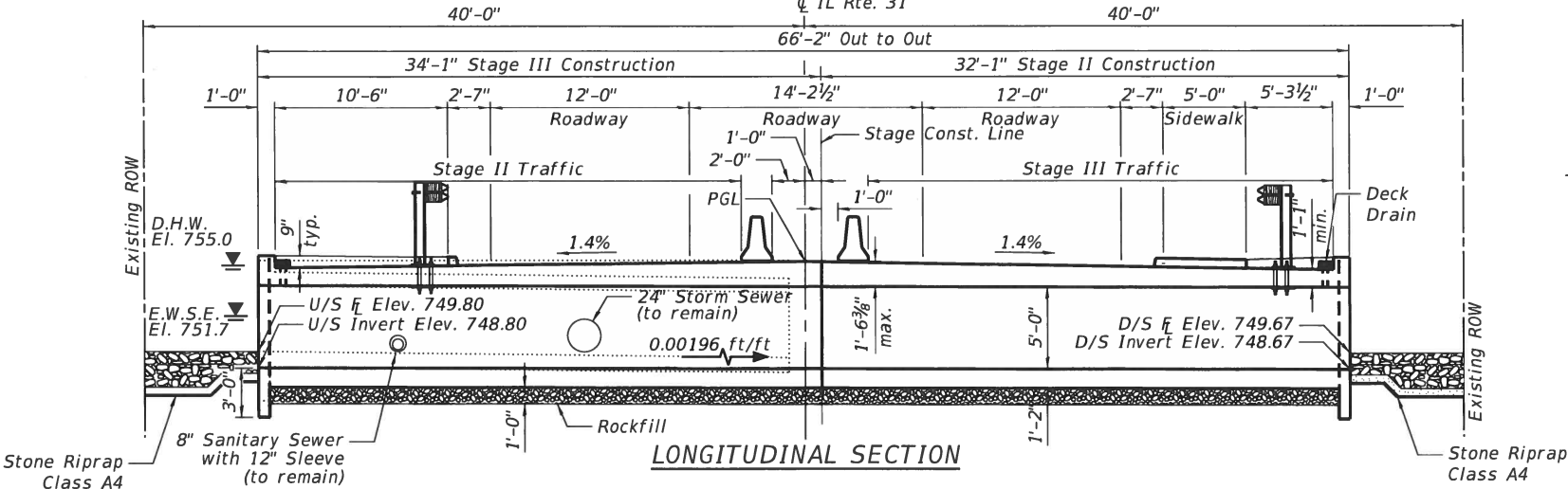
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**PROFILE GRADE**  
(along  $\bar{C}$  roadway)

**WATERWAY INFORMATION**

Drainage Area = 2.82 sq. mi. Low Grade Elev. 754.32 (E),(P) @ Sta. 450+20									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. Head - Ft.		Headwater El.		
			Exist.*	Prop.*	H.W.E.	Exist.	Prop.	Exist.	
Design	10	432	36.0	37.5	754.4	0.4	0.4	754.8	754.8
Base	50	840	36.0	37.5	755.0	0.1	0.1	755.1	755.1
Ex. Overtop	100	1151	36.0	37.5	755.3	0.1	0.1	755.4	755.4
Pr. Overtop	2	235	36.0	37.5	753.9	0.6	0.5	754.5	754.4
Max. Calc.	2	235	36.0	37.5	753.9	0.6	0.5	754.5	754.4
	500	2300	36.0	37.5	756.7	0.0	0.0	756.7	756.7

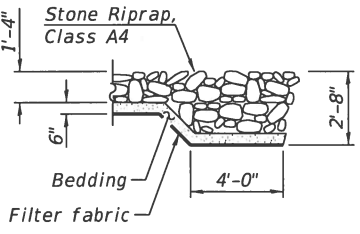
\* Effectively as modelled.



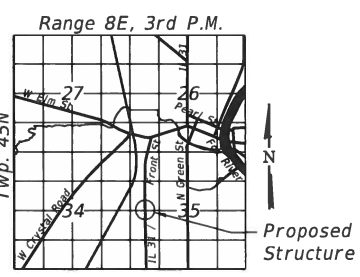
**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*Dr. Carl R. Pappas*  
ENGINEER OF BRIDGES AND STRUCTURES



DATE: 12/07/2018  
IL. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 11/30/2020



**RIPRAP CLASS A4**



**GENERAL PLAN AND ELEVATION**  
**IL ROUTE 31 OVER UNNAMED**  
**TRIBUTARY TO FOX RIVER**  
**F.A.P. ROUTE 336A**  
**SECTION 2018-056-DR-1**  
**MCHENRY COUNTY**  
**STATION 444+44.15**  
**STRUCTURE NO. 056-0105**

**LEGEND**  
Soil Boring Locations



INDEX OF SHEETS

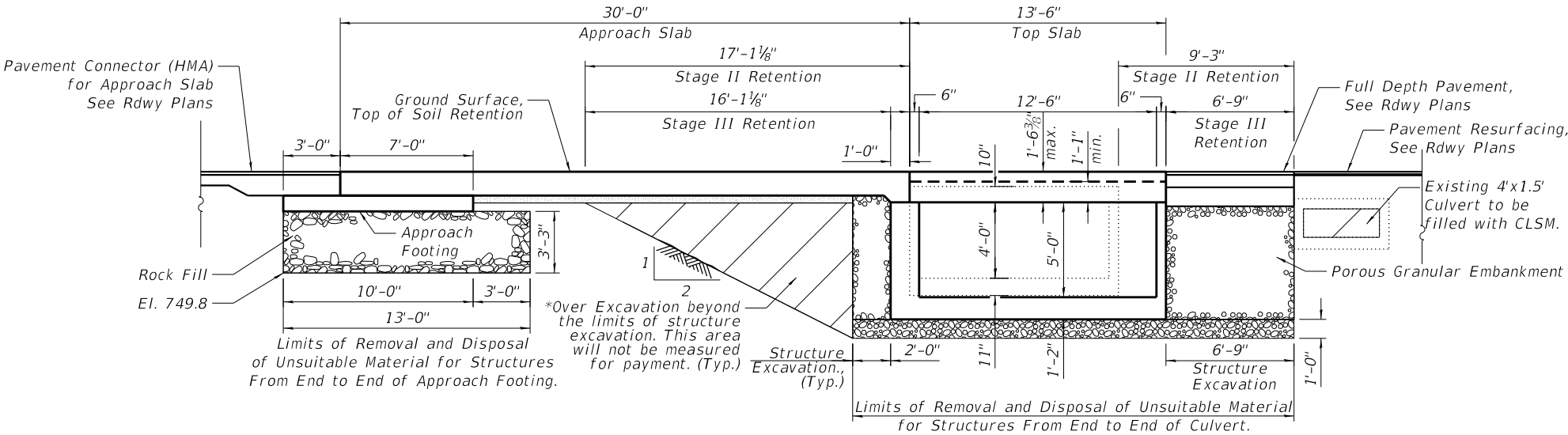
- S1 - General Plan and Elevation
- S2 - General Notes, Index of Sheets & Total Bill of Material
- S3 - Stage Construction Details I/II
- S4 - Stage Construction Details II/II
- S5 - Temporary Concrete Barrier for Stage Construction
- S6 - Culvert Details I/II
- S7 - Culvert Details II/II
- S8 - Approach Slab Details I/II
- S9 - Approach Slab Details II/II
- S10 - Bar Splicer and Mechanical Splicer Details
- S11 - Soil Boring Logs I/II
- S12 - Soil Boring Logs II/II
- S13 - Existing Plan I/II
- S14 - Existing Plan II/II

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- 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.
- The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
- Protective coat shall be applied to the top of culvert slab, approach slab, top and inside face of wingwalls.

TOTAL BILL OF MATERIAL

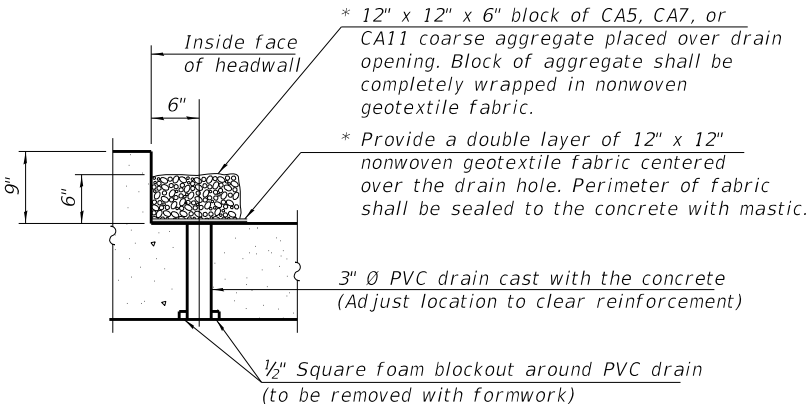
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	186
Stone Riprap Class A4	Sq Yd	44
Filter Fabric	Sq Yd	44
Subbase Granular Material, Type B, 4 Inches	Sq Yd	123
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	225
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	120
Concrete Structures	Cu Yd	13
Concrete Superstructure	Cu Yd	46
Bridge Deck Grooving	Sq Yd	236
Protective Coat	Sq Yd	266
Concrete Superstructure (Approach Slab)	Cu Yd	57
Reinforcement Bars, Epoxy Coated	Pound	46,520
Bar Splicers	Each	257
Steel Railing (Temporary)	Foot	70
Temporary Soil Retention System	Sq Ft	657
Concrete Box Culverts	Cu Yd	64
Storm Sewer Removal 24"	Foot	3
Geocomposite Wall Drain	Sq Yd	20
Controlled Low-Strength Material	Cu Yd	15
Temporary Support System	Each	1
Rock Fill	Cu Yd	64



CULVERT EXCAVATION DETAILS

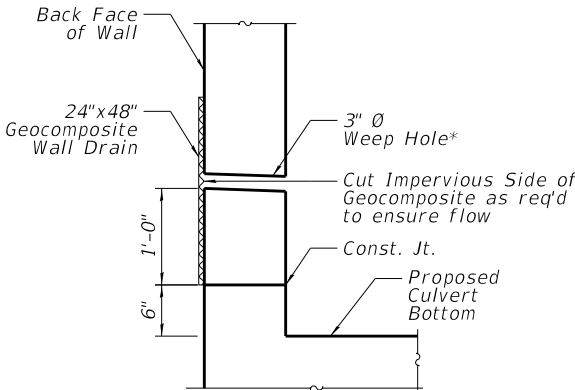
\*Backfill the over excavation beyond the limits of structure excavation with material specified for roadway embankment per Section 205 of Standard Specifications.

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail shall be included in the contract unit price for Concrete Box Culverts)



WEEP HOLE DRAIN DETAIL

\*Cost Included in Concrete Box Culvert

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Suite 3910  
Chicago, IL 60606  
ENGINEERS & SURVEYORS Ph: 312-235-6783

USER NAME =	DESIGNED - AWM	REVISED -
	CHECKED - MS	REVISED -
PLOT SCALE =	DRAWN - AWM	REVISED -
PLOT DATE =	CHECKED - MS	REVISED -

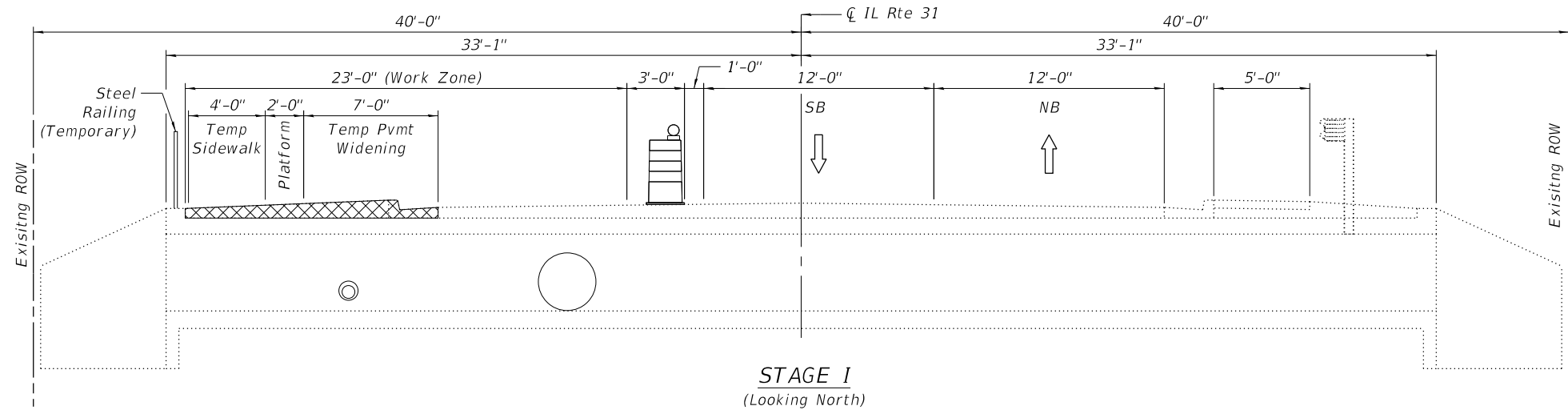
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL  
STRUCTURE NO. 056-0105

SHEET S2 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	40
CONTRACT NO. 62G48				
ILLINOIS		FED. AID PROJECT		




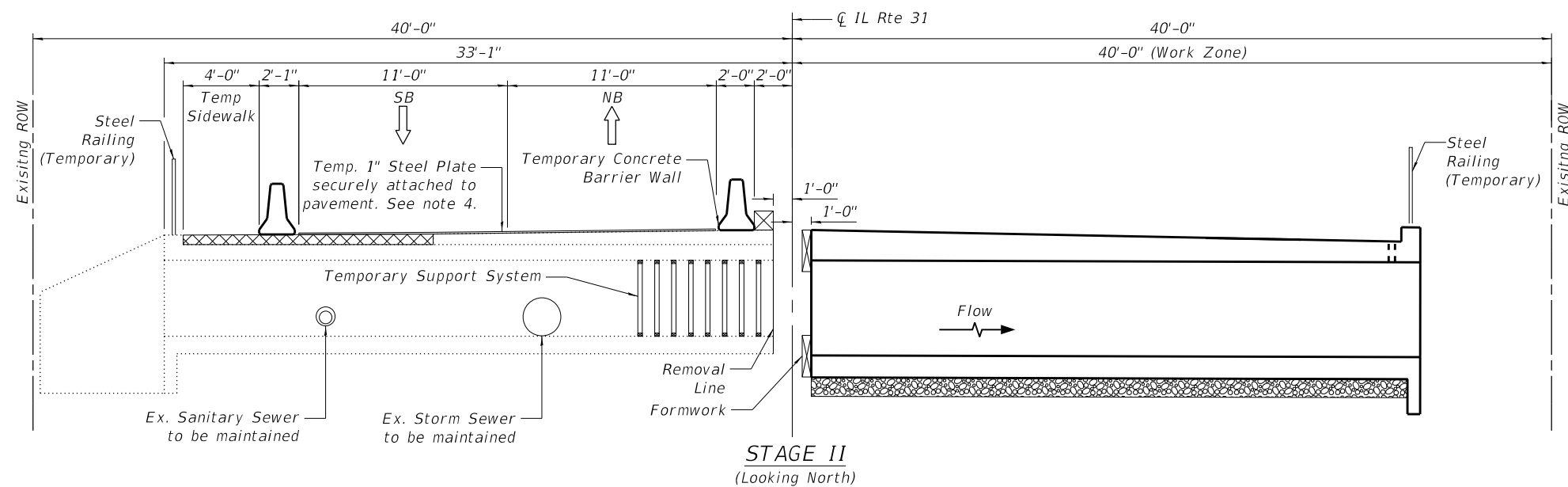


Note:

1. The Temporary Support System shown is a suggested minimum for bidding purposes. The Contractor shall submit bracing design including details and calculations, sealed by an IL Licensed Structural Engineer, for review and acceptance by the Engineer.
2. The Temporary Support System shall be installed in Stage I before the traffic is rerouted and the cut at the stage line is made.
3. Timber members shall be southern pine or douglas fir No. 2 or better.
4. Furnishing, installing and removing the temporary support system and roadway plate will not be paid for separately, but will be included in the unit price bid for "Temporary Support System"

### LEGEND

 Temporary Pavement Widening (See Roadway Plans)



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

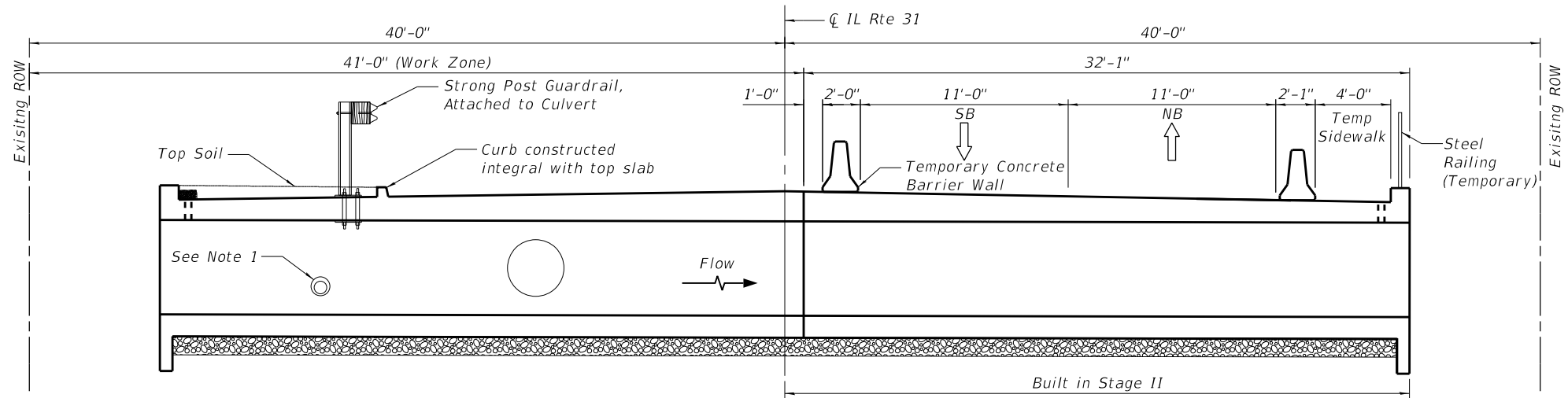
STAGE CONSTRUCTION DETAILS I / II  
STRUCTURE NO. 056-0105

SHEET S3 OF S14 SHEETS

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336A	2018-056-DR-1	MCHENRY	71	41
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

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PLOT DATE =	CHECKED - MS	REVISED -

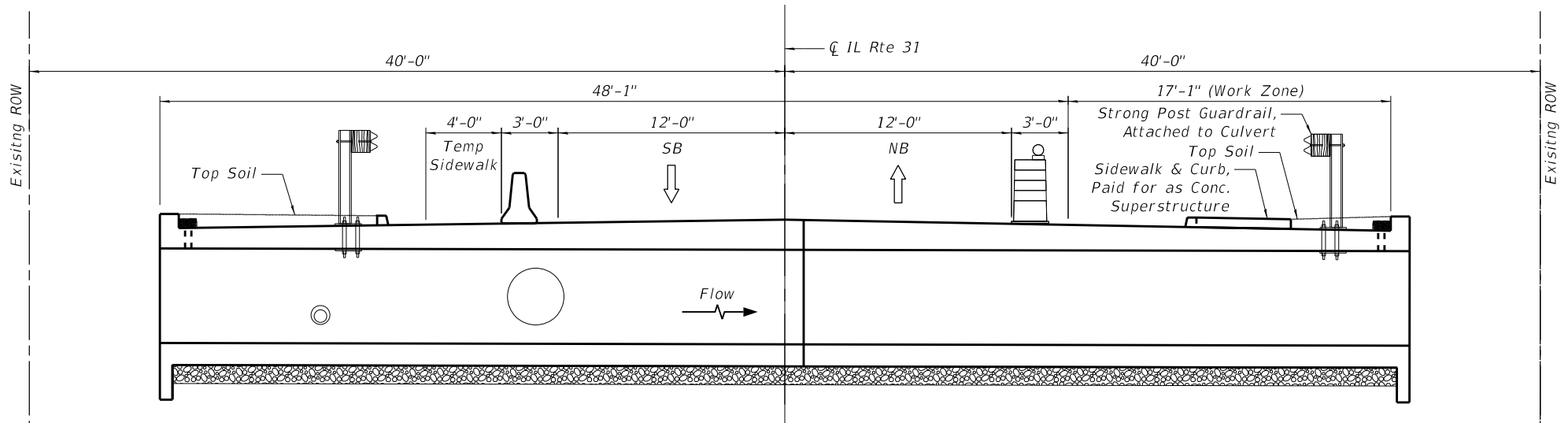




**STAGE III**  
(Looking North)

**Note:**

1. The Contractor shall be responsible to temporarily support existing sanitary sewer and storm sewer during construction. Cost included with Concrete Box Culverts.
2. The Contractor shall take precaution to provide a clean cut for the removal of existing storm sewer at the face of the box culvert. Contractor shall be responsible for any damage to the storm sewer to remain.



**STAGE IV**  
(Looking North)

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**AES** ENGINEERS & SURVEYORS  
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Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME =	DESIGNED - AWM	REVISED -
	CHECKED - MS	REVISED -
PLOT SCALE =	DRAWN - AWM	REVISED -
PLOT DATE =	CHECKED - MS	REVISED -

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

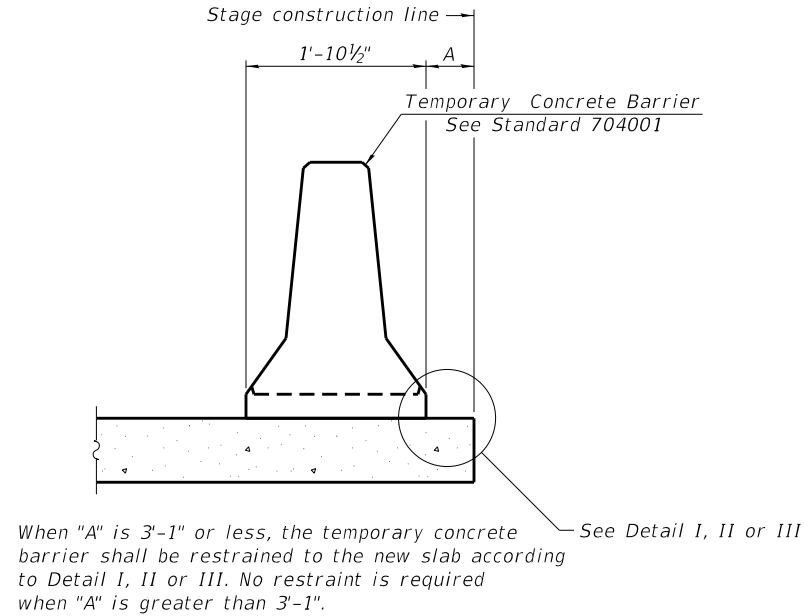
**STAGE CONSTRUCTION DETAILS II / II**  
**STRUCTURE NO. 056-0105**

SHEET S4 OF S14 SHEETS

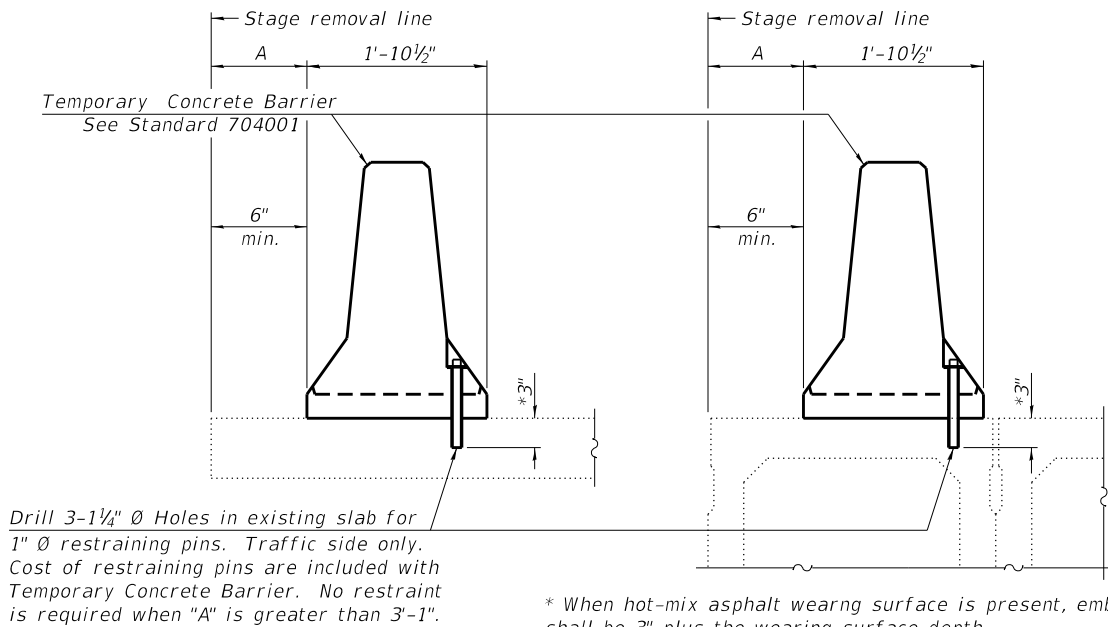
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336A	2018-056-DR-1	MCHENRY	71	42
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



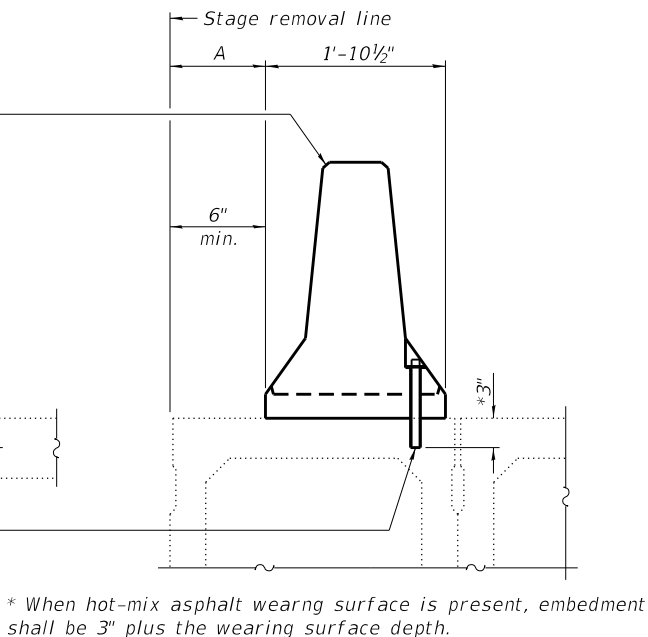
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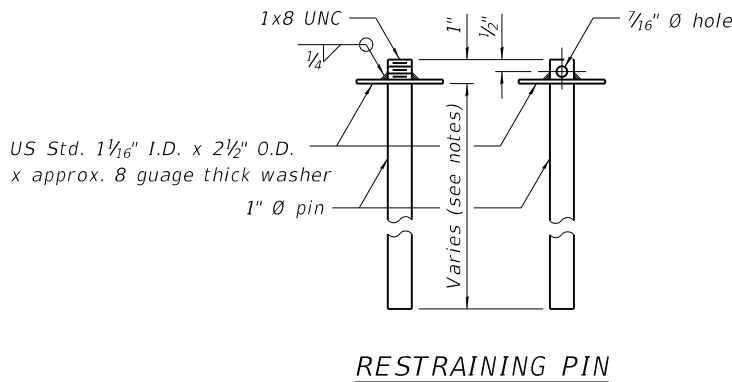
NEW SLAB OR NEW DECK BEAM



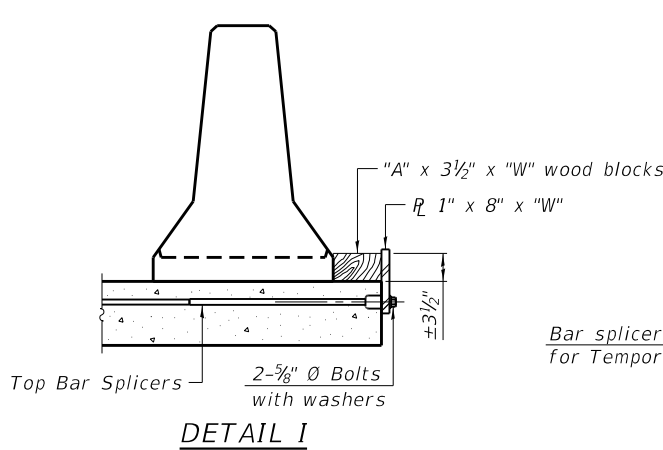
EXISTING SLAB



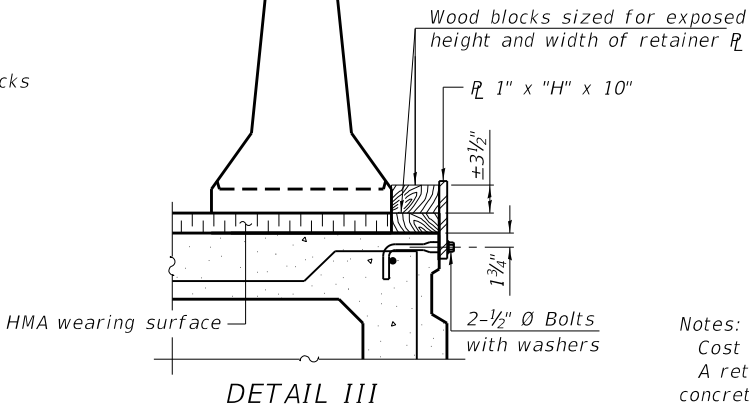
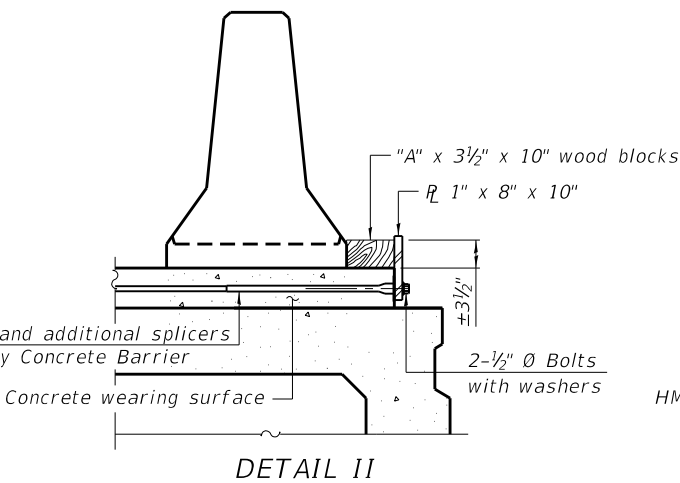
EXISTING DECK BEAM



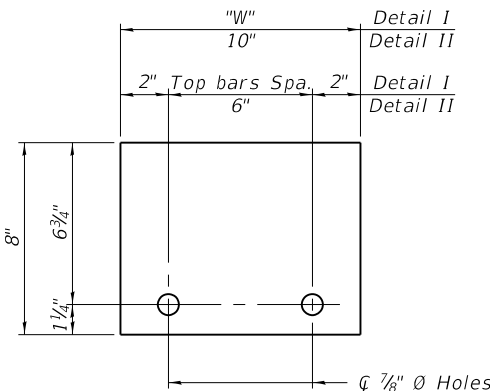
SECTIONS THRU SLAB OR DECK BEAM



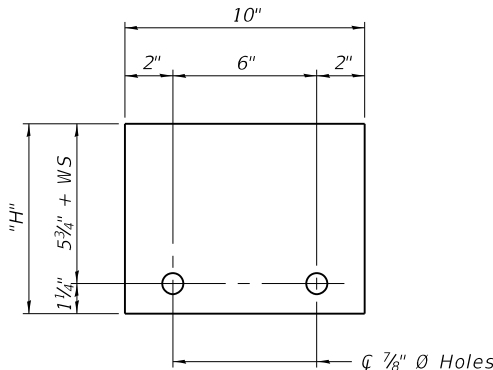
Bar splicers and additional splicers for Temporary Concrete Barrier



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"  
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"  
(Detail III)

Notes:  
Cost of retainer assembly is included with Temporary Concrete Barrier.  
A retainer assembly shall be located at the approximate  $\bar{C}$  of each temporary concrete barrier.  
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.  
Detail I - Installation for a new bridge deck or bridge slab.  
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME	=	
PLOT SCALE	=	
PLOT DATE	=	

DESIGNED	-	AWM
CHECKED	-	MS
DRAWN	-	AWM
CHECKED	-	MS

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 056-0105

SHEET S5 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	43
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				







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ENGINEERS & SURVEYORS

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Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME	=	DESIGNED	-	AWM	REVISED	-
CHECKED	-	MS	REVISED	-		
PLOT SCALE	=	DRAWN	-	AWM	REVISED	-
PLOT DATE	=	CHECKED	-	MS	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS II / II  
STRUCTURE NO. 056-0105

SHEET S7 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	45
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

SECTION B-B

L-TYPE CANTILEVER WINGWALL ELEVATION D/S  
(Similar U/S)

SECTION A-A

HORIZONTAL CANTILEVER WINGWALL ELEVATION D/S  
(Similar U/S)

CURB DETAIL A

Integral to Culvert Top Slab.  
Paid for as Concrete Superstructures

DETAIL B

Integral to Culvert Top Slab.  
Paid for as Concrete Superstructures

Bar Splicer shall be capped  
during Stage III traffic.  
Cost included with  
Bar Splicers.

#4 Bar Splicer  
Assembly, See  
sheet S10 for  
details.

BAR a1(E)

BAR a3(E)

BAR d1(E)

BAR d(E)

BAR h8(E)\*

BAR h9(E)\*

BAR h10(E)\*

BAR h11(E)\*

BAR s(E)

\*Straigten bars in field as needed

\*Straigten bars in field as needed

BAR s1(E)

BAR s4(E)

BAR u(E)

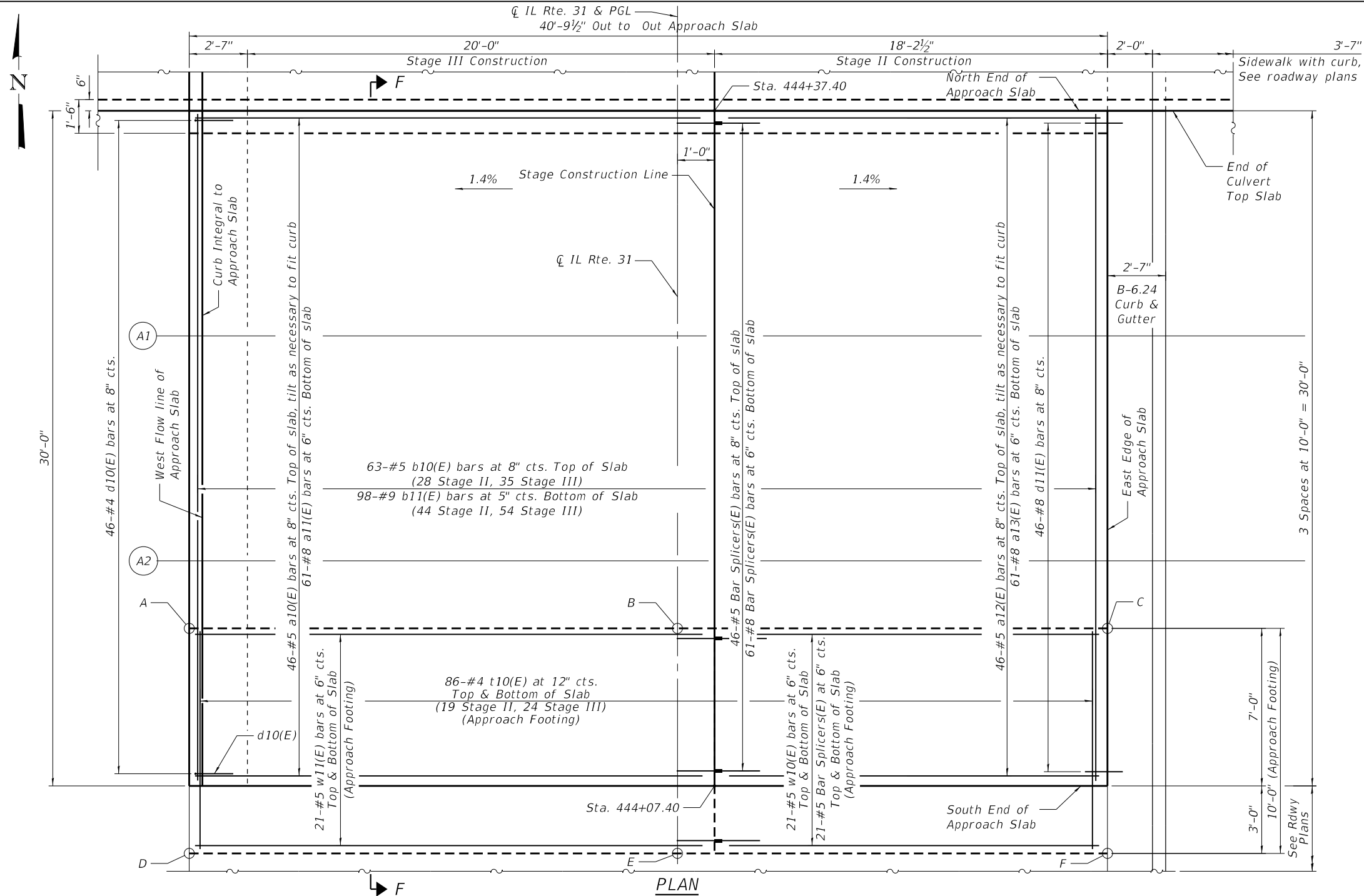
BAR v5(E)

BAR v6(E)

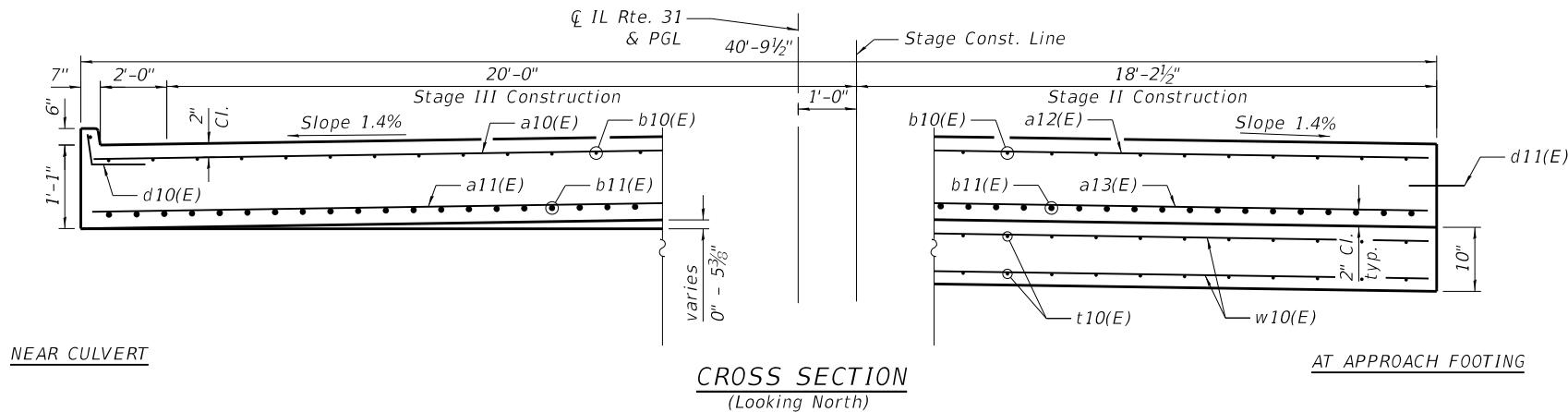
BAR z(E)



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PLAN  
For Section F-F, see Sheet S9



CROSS SECTION  
(Looking North)

WEST FLOW LINE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	444+37.40	21'-0"	754.98
A1	444+27.40	21'-0"	755.00
A2	444+17.40	21'-0"	755.02
S. End of S. Appr. Slab	444+07.40	21'-0"	755.04

CENTERLINE IL RTE 31 & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	444+37.40	0.00'	755.27
A1	444+27.40	0.00'	755.29
A2	444+17.40	0.00'	755.31
S. End of S. Appr. Slab	444+07.40	0.00'	755.33

EAST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	444+37.40	19.21'	755.00
A1	444+27.40	19.21'	755.02
A2	444+17.40	19.21'	755.04
S. End of S. Appr. Slab	444+07.40	19.21'	755.06

TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING

Point	Approach	
	Top	Bottom
A	753.94	753.11
B	754.24	753.41
C	753.97	753.14
D	753.96	753.13
E	754.26	753.43
F	753.99	753.16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS I / II  
STRUCTURE NO. 056-0105

SHEET S8 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	46
CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



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1/17/2019 6:53:19 PM



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME =

DESIGNED - AWM

CHECKED - MS

PLOT SCALE =

PLOT DATE =

REVIS

REVIS

REVIS

REVIS

DESIGNED - AWM	REVIS
CHECKED - MS	REVIS
DRAWN - AWM	REVIS
CHECKED - MS	REVIS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

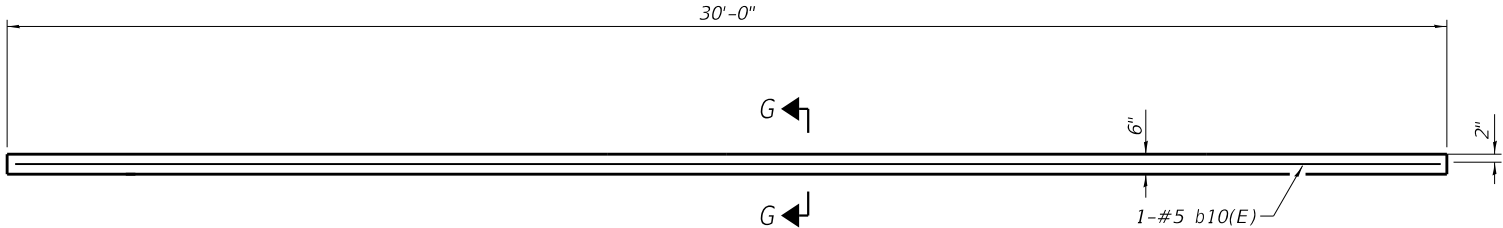
APPROACH SLAB DETAILS II/II  
STRUCTURE NO. 056-0105

SHEET S9 OF S14 SHEETS

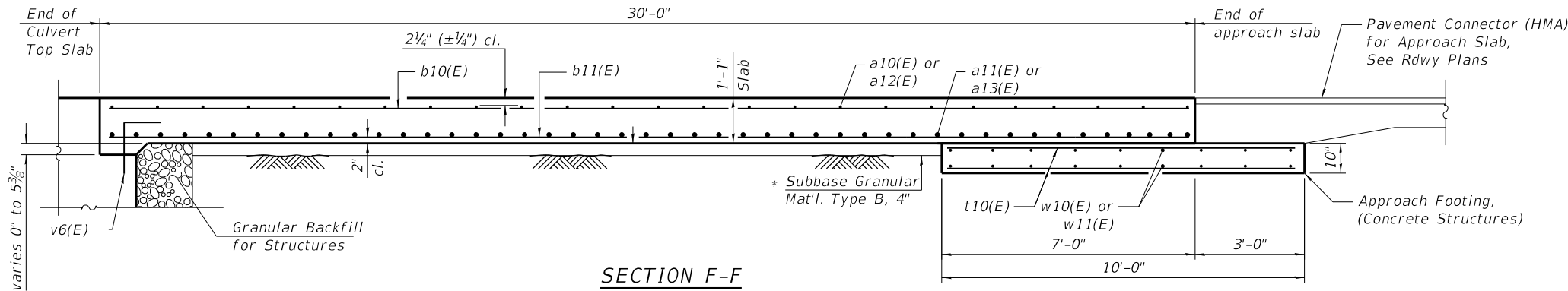
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	47
CONTRACT NO. 62G48				
ILLINOIS		FED. AID PROJECT		

Notes:

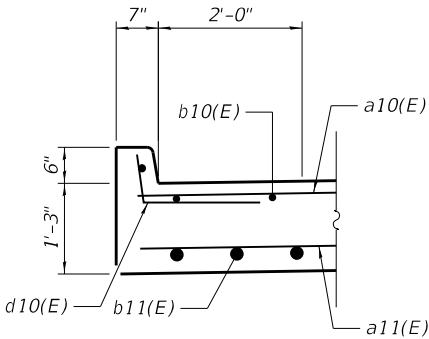
- Curb concrete over approach slab shall be paid for as Concrete Superstructure (approach Slab).
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet S2 of S14.
- See Sheet S6 of S14 for v100(E) bar details.



INSIDE ELEVATION OF CURB



SECTION F-F

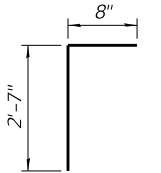


VIEW G-G

To match with Roadway  
B-6.24 Curb & Gutter

SOUTH APPROACH  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	22'-3"	—
a11(E)	61	#8	22'-3"	—
a12(E)	46	#5	17'-10"	—
a13(E)	61	#8	17'-10"	—
b10(E)	63	#5	29'-8"	—
b11(E)	98	#9	29'-8"	—
d10(E)	46	#4	3'-3"	┐
d11(E)	46	#8	2'-0"	—
t10(E)	86	#4	9'-8"	—
w10(E)	42	#5	17'-10"	—
w11(E)	42	#5	22'-3"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	57
Concrete Structures			Cu. Yd.	13
Reinforcement Bars, Epoxy Coated			Pound	22,940



BAR d10(E)



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BSD-1

2-17-2017



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

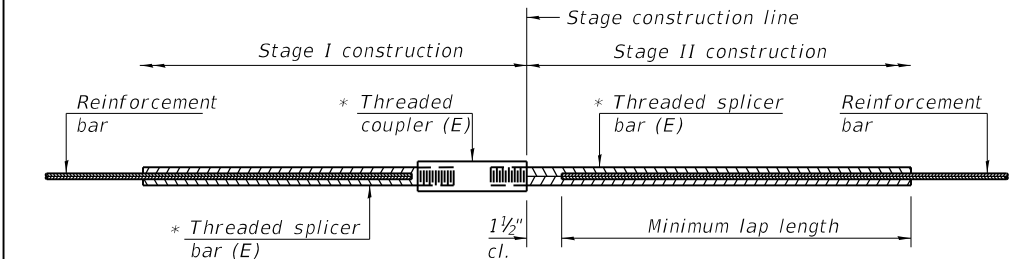
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PLOT SCALE =	DRAWN - AWM	REVISED -
PLOT DATE =	CHECKED - MS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 056-0105

SHEET S10 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	48
CONTRACT NO. 62G48				
		ILLINOIS	FED. AID PROJECT	

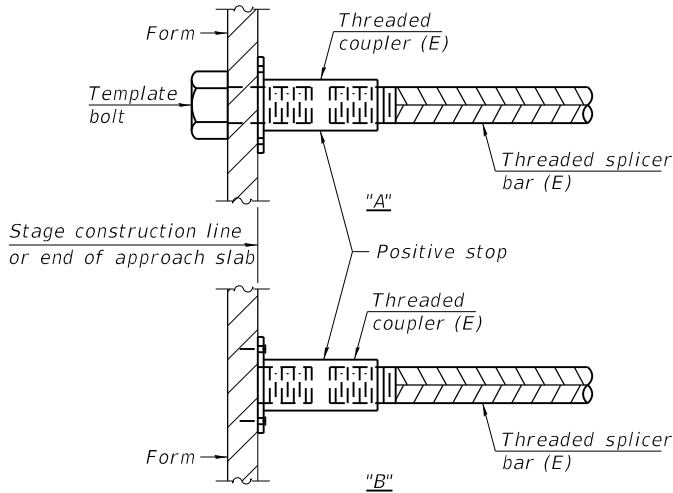


### STANDARD BAR SPLICER ASSEMBLY

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
Culvert Top Slab, h(E), h1(E)	#6	30	3'-10"
Culvert Bot. Slab, h(E), h1(E)	#6	30	3'-10"
Culvert N & S Walls, h2(E), h3(E)	#4	12	2'-11"
Culvert S Wall, h6(E), h7(E)	#4	6	2'-11"
Approach Slab, a10(E), a12(E)	#5	46	3'-2"
Approach Slab, a11(E), a13(E)	#8	61	5'-1"
Approach Footing, w10(E), w11(E)	#5	42	3'-2"

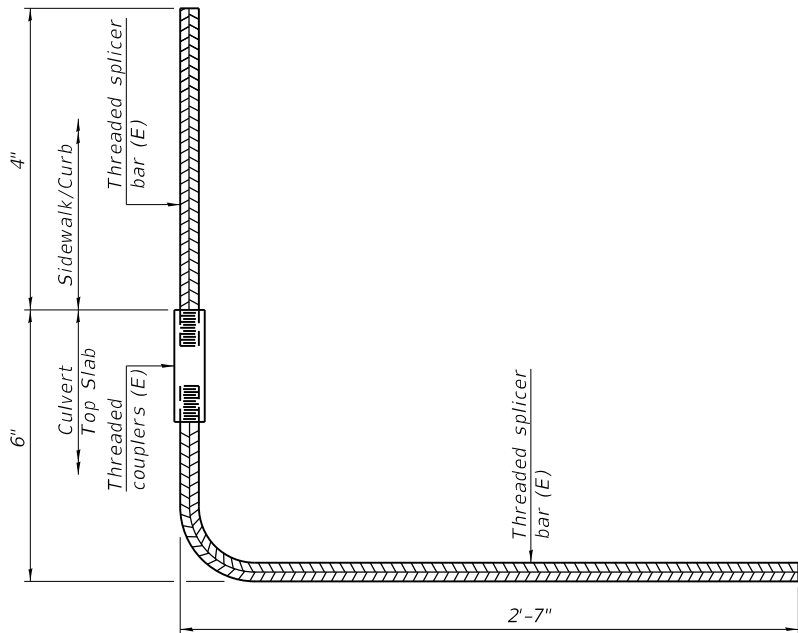


### INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

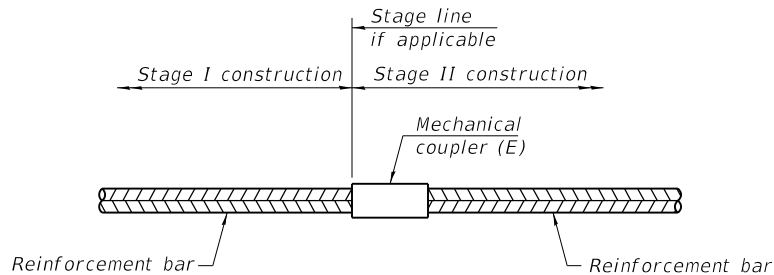
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



### BAR SPLICER ASSEMBLY FOR #4 BAR AT SIDEWALK ON CULVERT

No. required = 30



### 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.



WANGENGING 19902030.GPJ WANGENG.GDT 9/19/18

SOIL BORING CB-01

WANGCENG 1990204 CRI WANGCENG CDT 9/24/19

SOIL BORING CB-02

SOIL BORING CB-03



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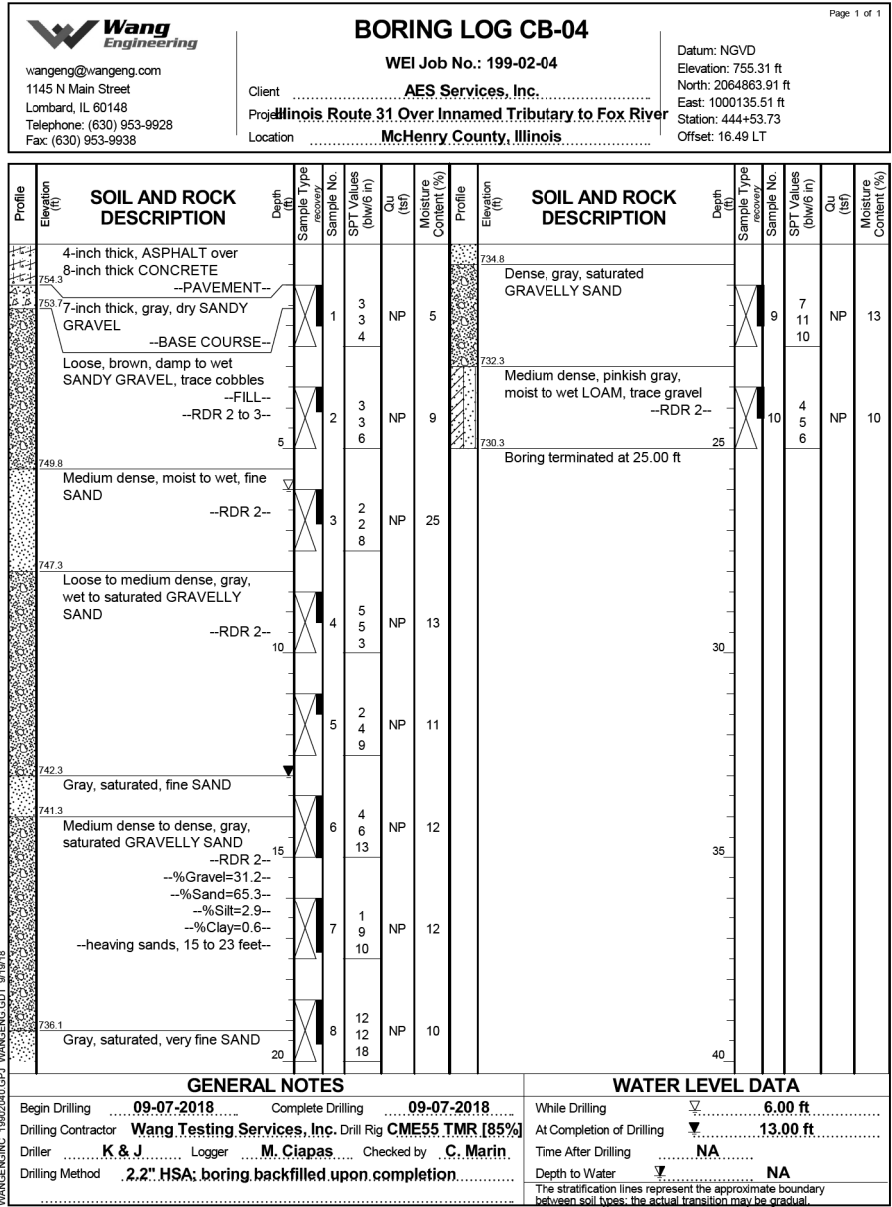
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

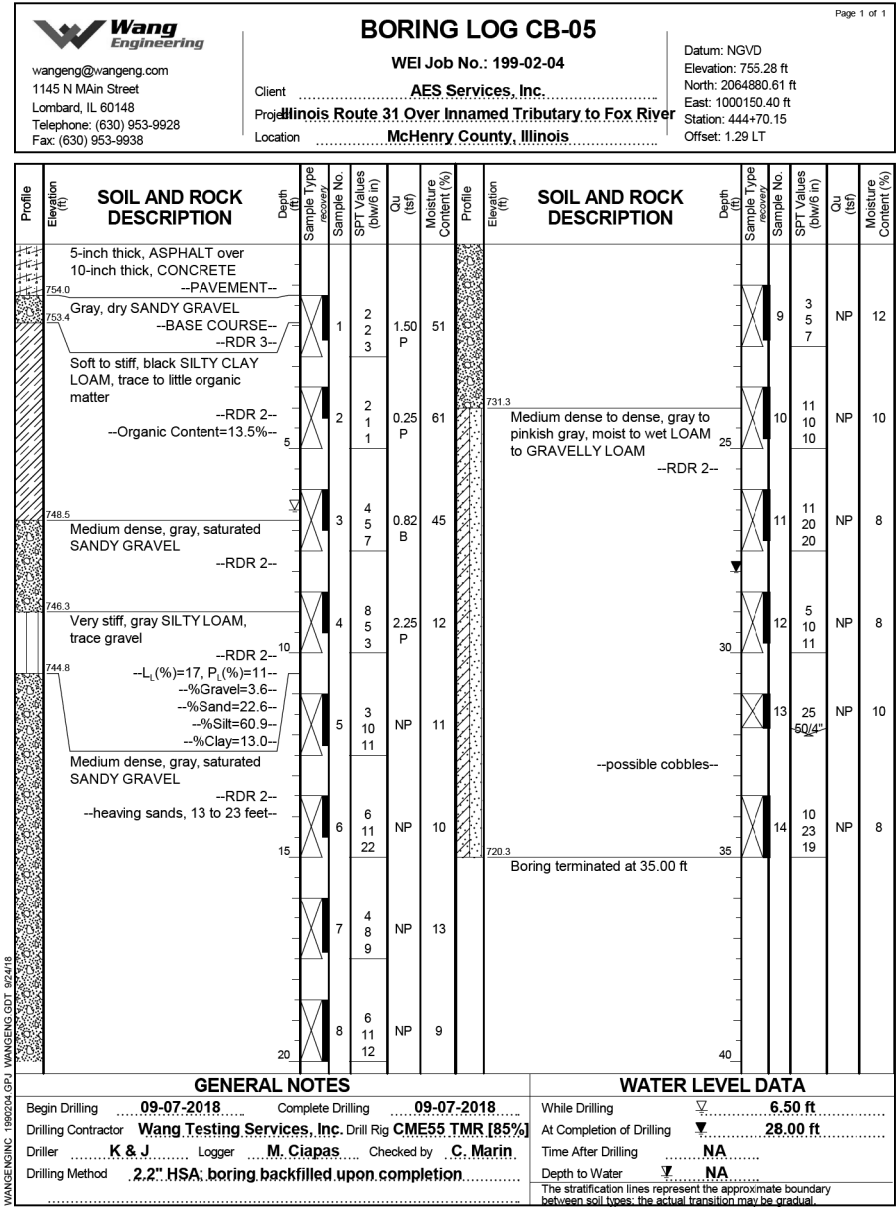
SOIL BORING LOGS II/II  
STRUCTURE NO. 056-0105

SHEET S12 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62G48				
ILLINOIS		FED. AID PROJECT		



SOIL BORING CB-04

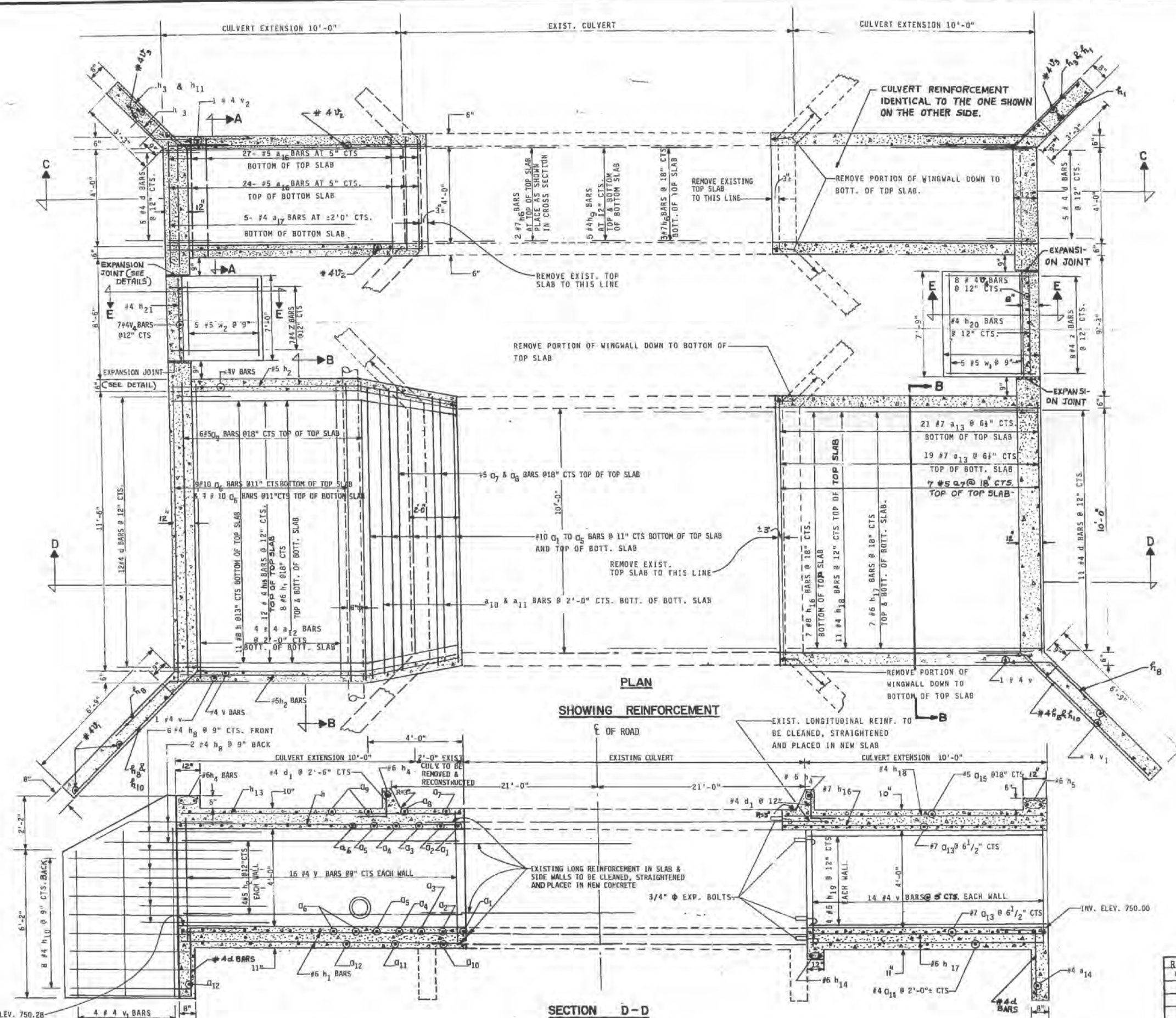


SOIL BORING CB-05

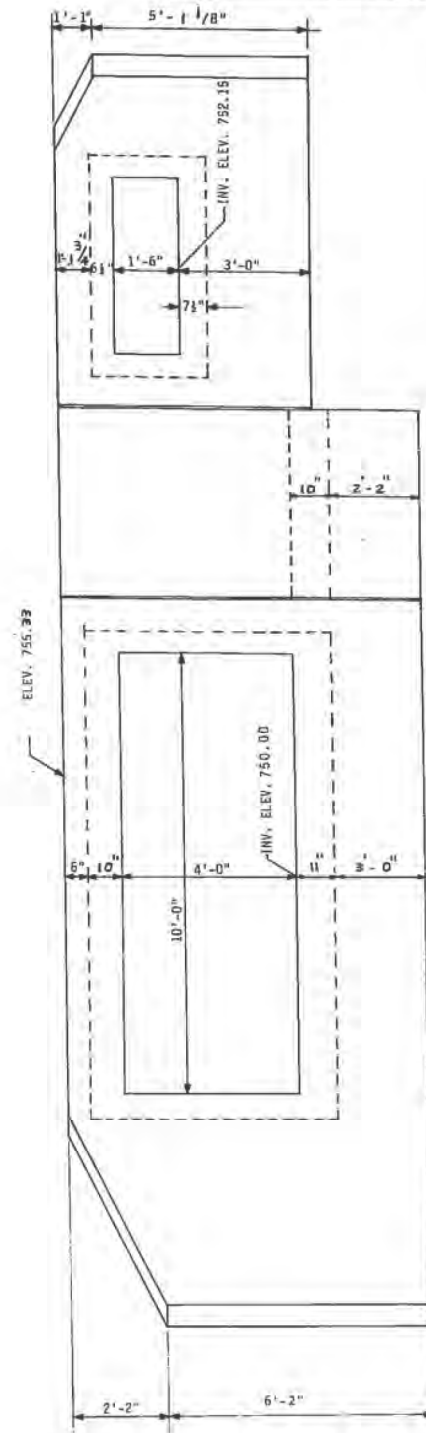


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(FOR INFORMATION ONLY)



FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 860	112 RS-83	McHENRY	67	37
STA.	TO STA.	ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION			
ILL. RTE. 31			
BOX CULVERTS EXTENSION SPECIAL			
STA. 120+30 & STA. 120+47.25			
SCALE: VERT. HORIZ.	DRAWN BY		
DATE	CHECKED BY		

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

EXISTING PLAN I/II  
STRUCTURE NO. 056-0105

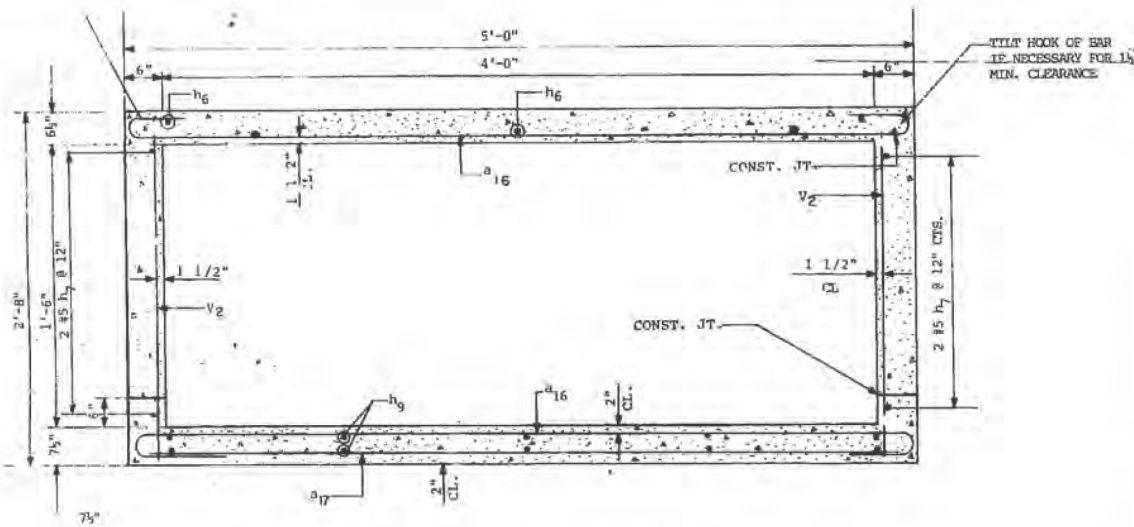
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CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

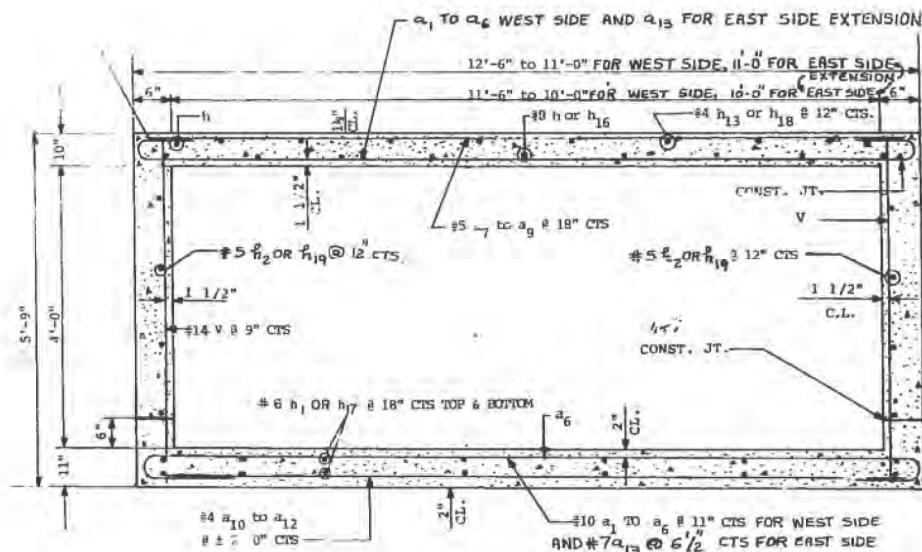


(FOR INFORMATION ONLY)

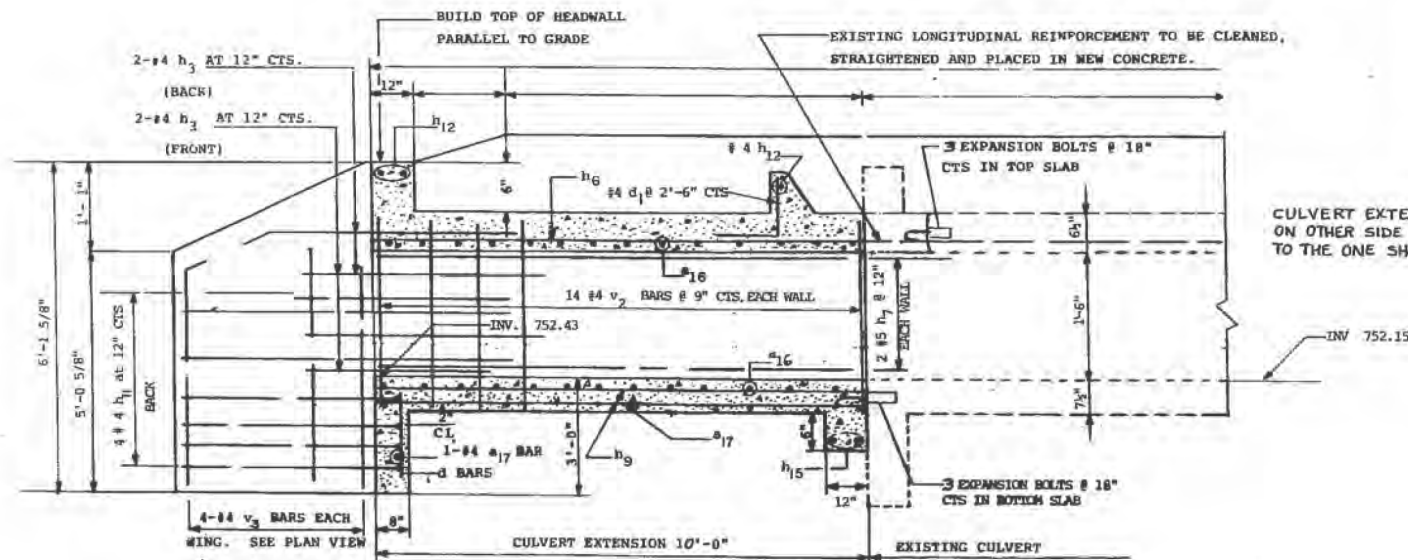
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STA.	TO STA. ILLINOIS FED. AID PROJECT			



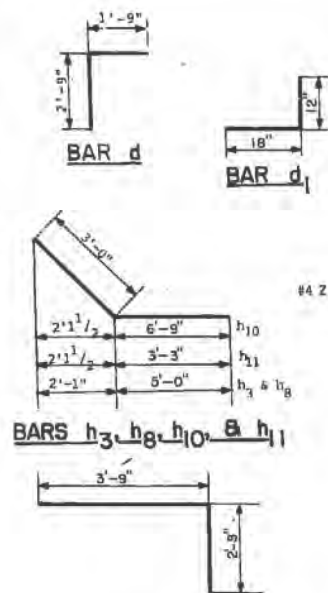
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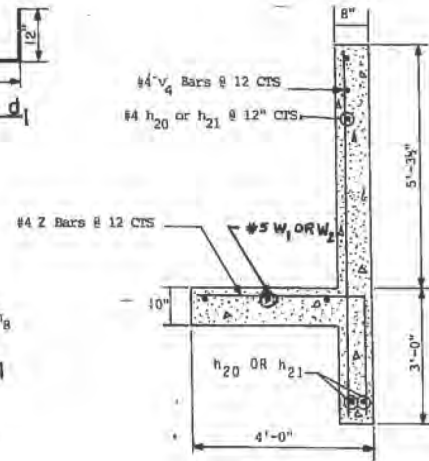
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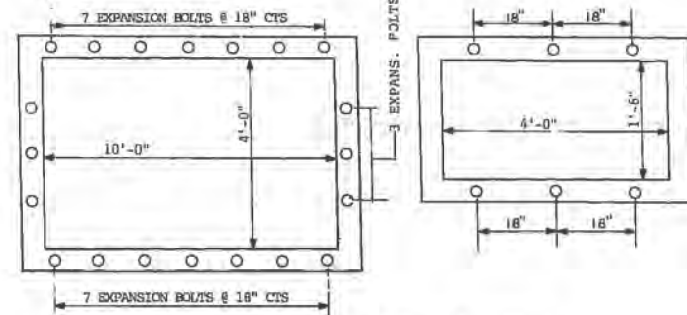
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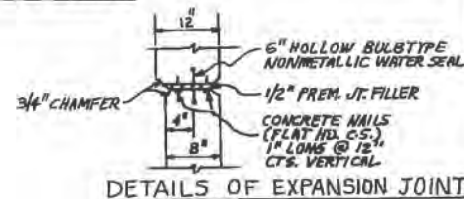
BAR Z



SECTION E-E

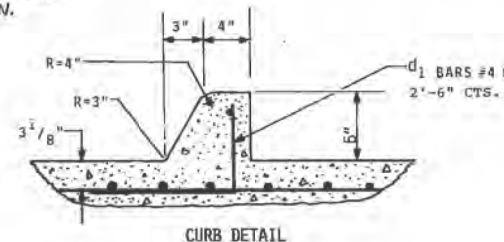


CROSS SECTION THRU CULVERTS  
SHOWING EXPANSION BOLTS



NOTES:

CLASS X CONCRETE SHALL BE USED THROUGHOUT  
AT LEAST SIX FEET OF BARREL SHALL BE POURED MONOLITHICALLY  
WITH WINGWALLS.  
EXPOSED EDGES SHALL BE BEVELED 3/4"  
FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.  
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO  
M-31 OR M-53, GRADE 60.  
EXPANSION BOLTS SHALL CONSISTS OF SELF DRILLING EXPANSION SHIELDS  
AND 3/4" # HOOKED BOLTS, HOOKED BOLTS SHALL EXTEND A MINIMUM OF  
2" INTO NEW CONCRETE



DESIGN STRESSES  
 $f_y = 60,000$  P.S.I.  
 $f_c = 3,500$  P.S.I.  
LOADING HS 20-44 & ALT.

BAR	NO.	SIZE	LENGTH
a1	2	#10	13'-7"
a2	2	#10	13'-11"
a3	2	#10	14'-3"
a4	2	#10	14'-7"
a5	2	#10	14'-11"
a6	18	#10	15'-0"
a7	8	#5	10'-9"
a8	1	#5	11'-6"
a9	6	#5	12'-2"
a10	1	#4	11'-0"
a11	1	#4	11'-9"
a12	5	#4	12'-2"
a13	40	#7	12'-4"
a14	6	#4	10'-8"
a15	8	#5	10'-8"
a16	102	#5	5'-10"
a17	12	#4	4'-8"
d	33	#4	4'-6"
d1	16	#4	2'-5"
h	9	#8	11'-8"
h1	16	#6	11'-8"
h2	8	#5	11'-8"
h3	8	#4	8'-0"
h4	4	#6	12'-11"
h5	2	#6	11'-5"
h6	10	#7	10'-7"
h7	8	#4	9'-8"
h8	16	#4	8'-0"
h9	20	#4	9'-8"
h10	16	#4	9'-9"
h11	8	#4	6'-3"
h12	6	#6	5'-5"
h13	12	#4	11'-8"
h14	2	#6	10'-6"
h15	4	#6	4'-8"
h16	7	#8	10'-8"
h17	14	#6	9'-8"
h18	11	#4	10'-7"
h19	8	#5	9'-8"
h20	10	#4	7'-6"
h21	10	#4	6'-9"
v	52	#4	5'-4"
v1	8	#4	7'-0"
v2	58	#4	2'-4"
v3	8	#4	4'-6"
v4	15	#4	8'-0"
w1	5	#5	7'-6"
w2	5	#5	6'-9"
z	15	#4	6'-5"
CLASS X CONCRETE			
BOX CULVERT			
EXPANSION BOLTS 3/4" DIA. EACH.			52
REINFORCEMENT BARS			6750

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION			
ILL. RTE. 31			
BOX CULVERTS EXTENSION SPECIAL			
STA. 120+30 & STA. 120+47.25			
SCALE: VERT. HORIZ.	DRAWN BY		
DATE	CHECKED BY		
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
336A	2018-056-DR-1	MCHENRY	71
CONTRACT NO. 62G48			
ILLINOIS FED. AID PROJECT			

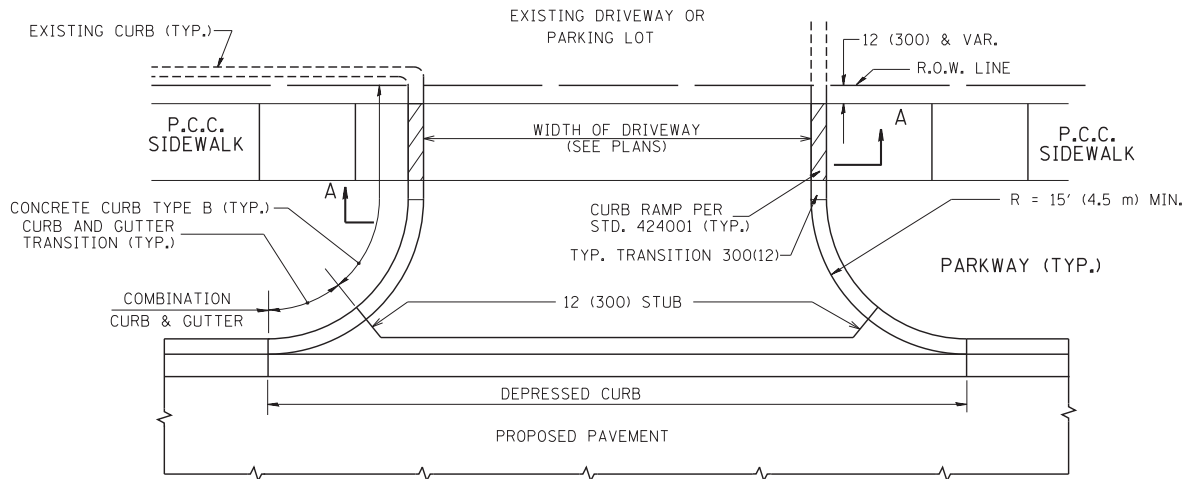
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS II/II  
STRUCTURE NO. 056-0105

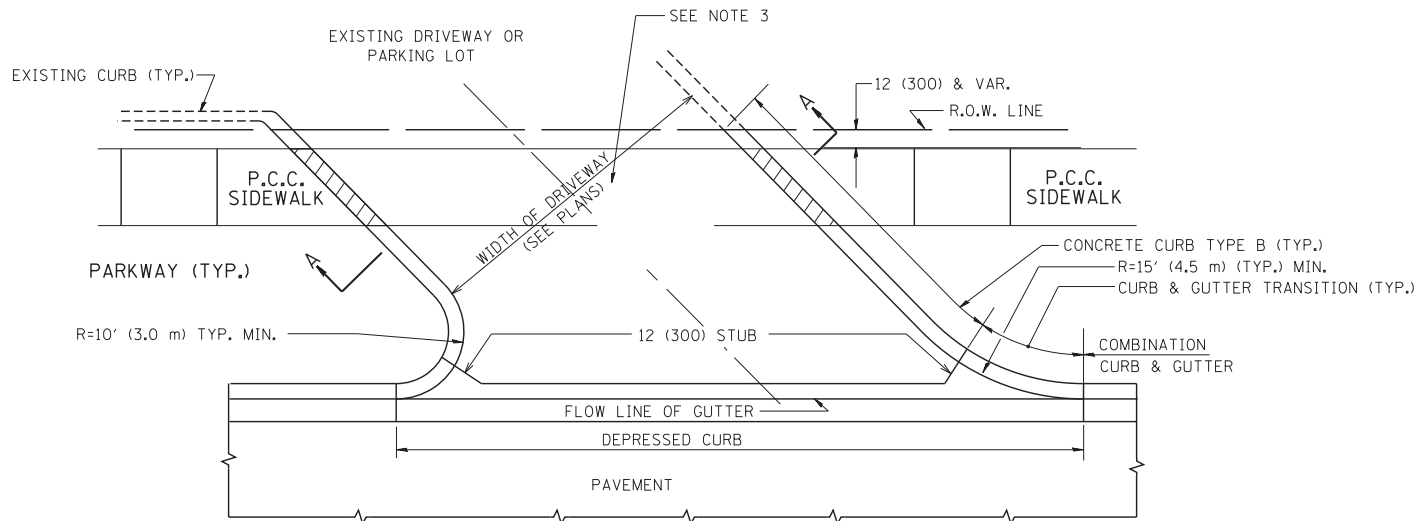
SHEET S14 OF S14 SHEETS

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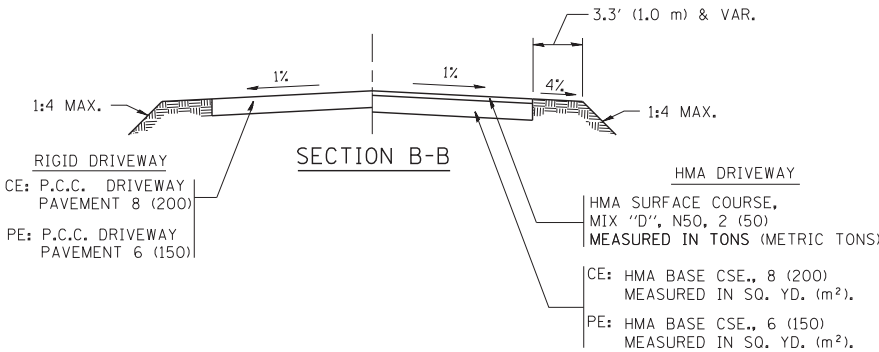
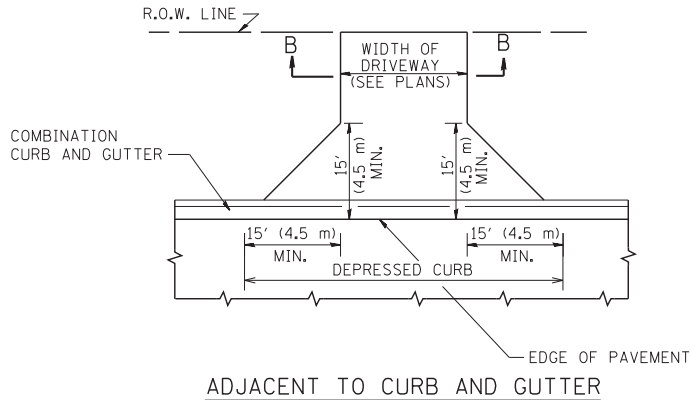
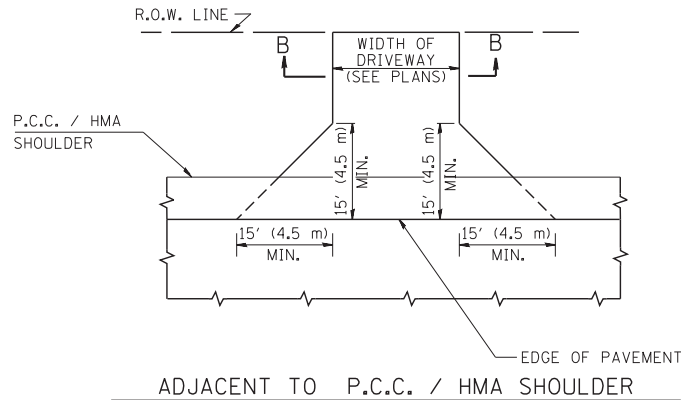
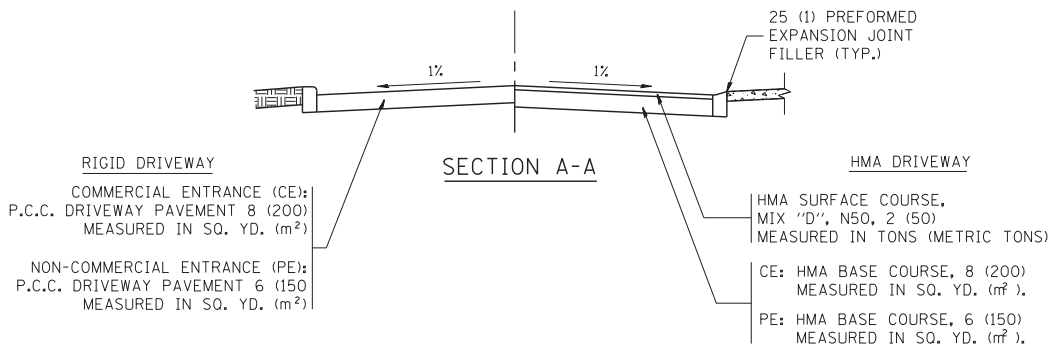




WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,  
MIX 'D', N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

GENERAL NOTES:

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

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

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

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

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

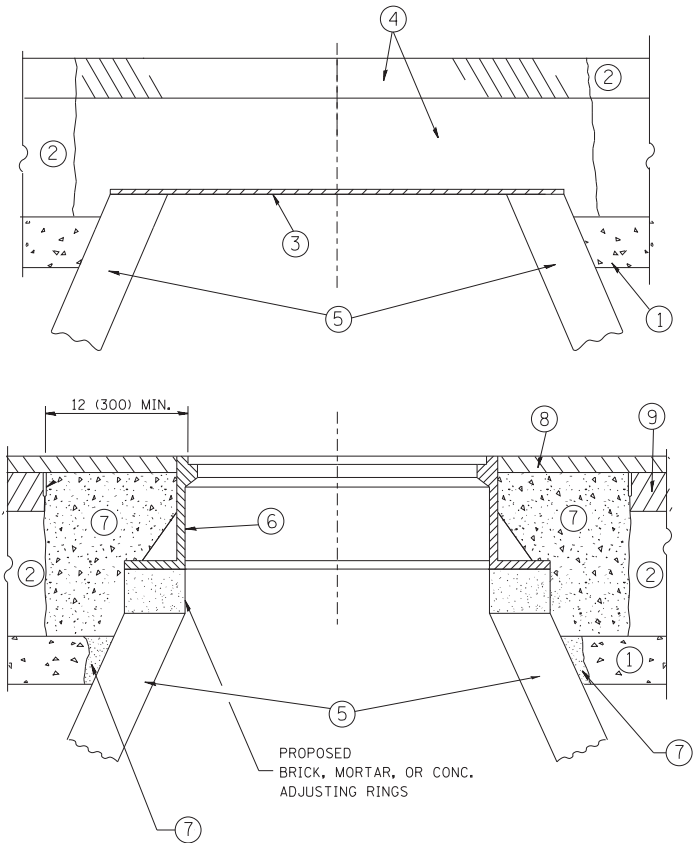
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - P. LdFLUER 04-15-03
ct:\pw\work\p\idot\lryso\d0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			F.A. . RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			336A	2018-056-DR-7	MCHENRY	71	53
			BD0156-07 (BD-01)		CONTRACT NO. 62G48		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

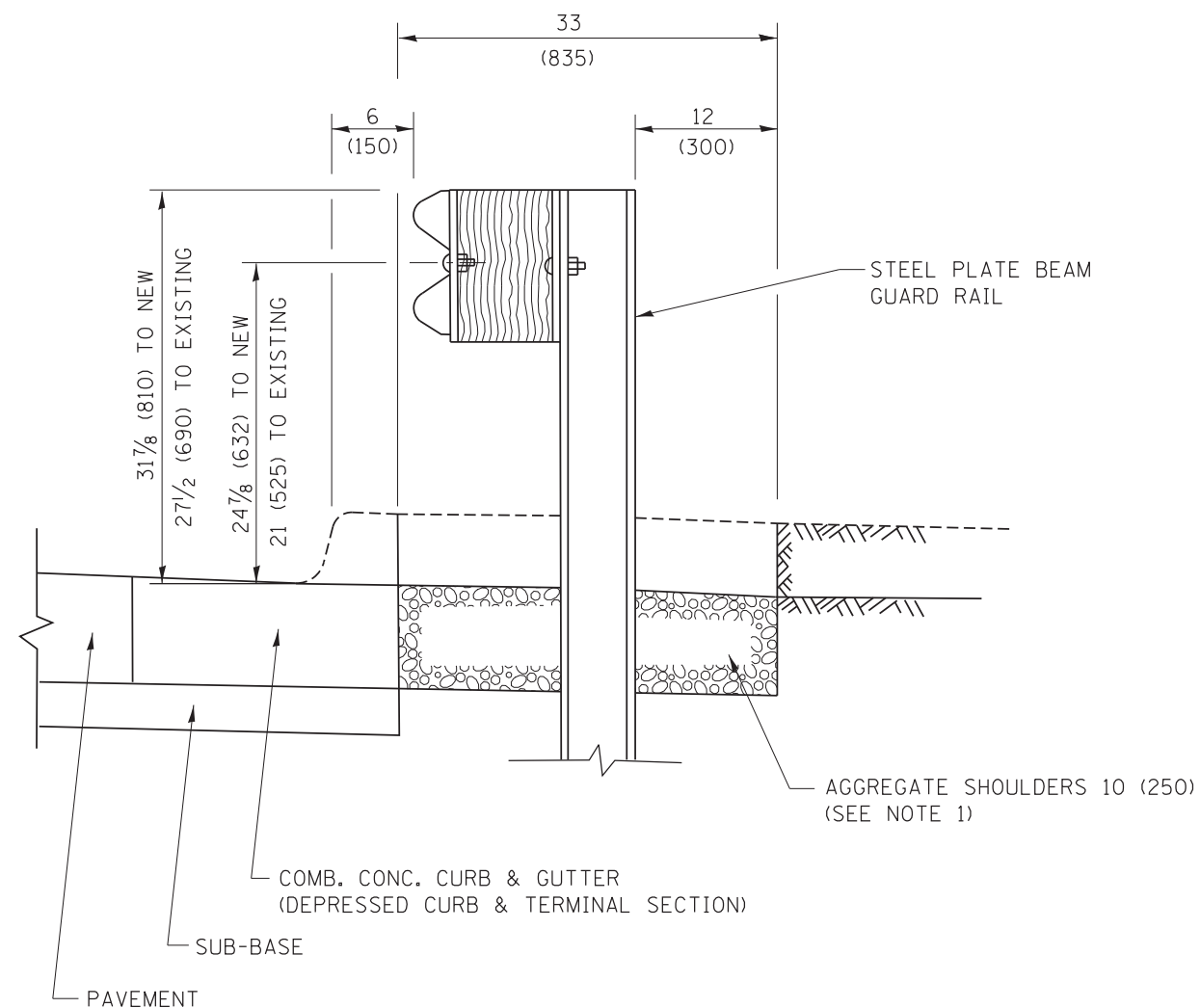
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pw\work\p\pidot\bauerdl\d0108315\bd08.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A. RTE. 336A	SECTION 2018-056-DR-7	COUNTY MCHENRY	TOTAL SHEETS 71	SHEET NO. 54
	PLOT SCALE = 1/68.5000' / m	CHECKED -	REVISED - R. BORO 03-09-11					BD600-03 (BD-8)		CONTRACT NO. 62G48		
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

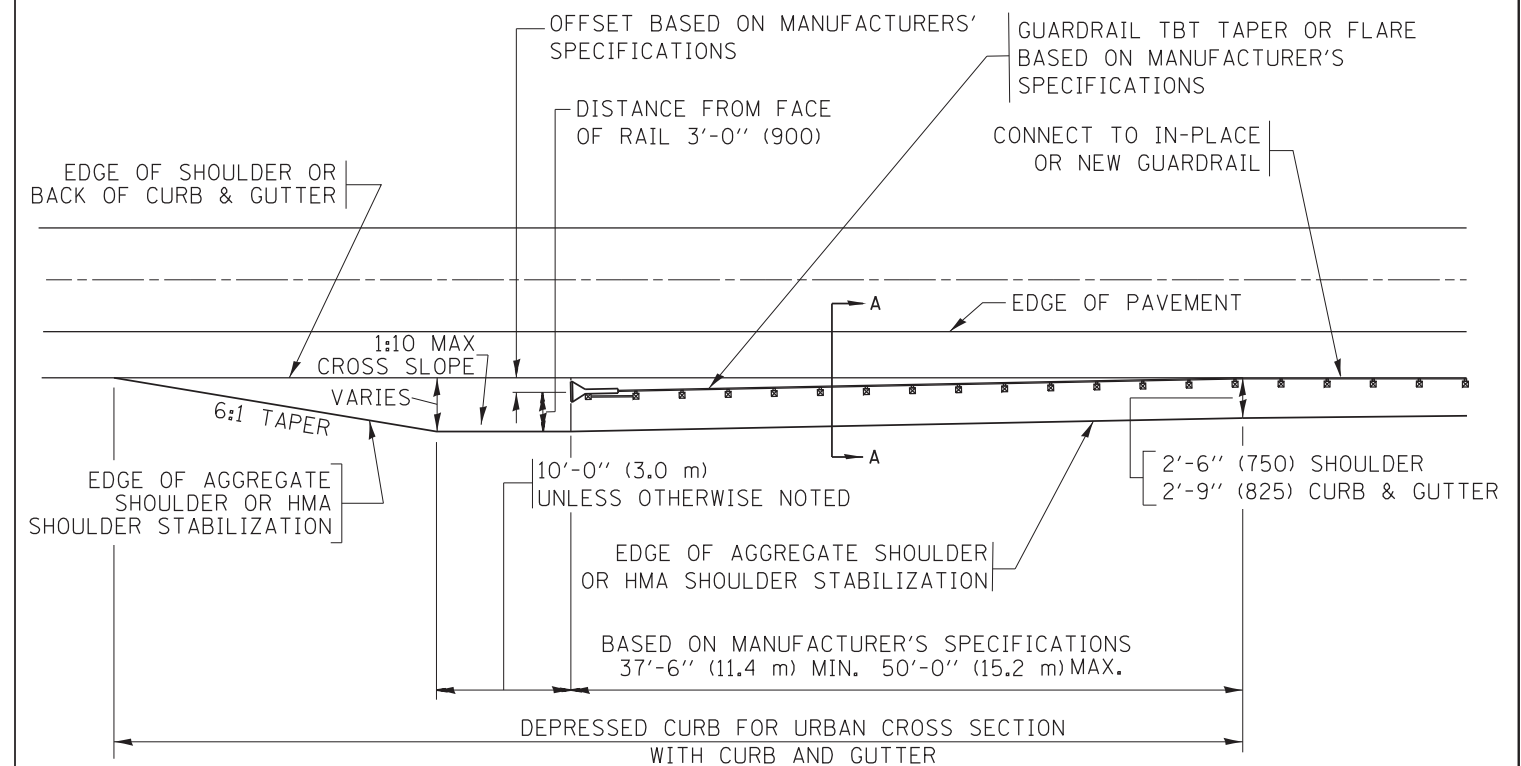




SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID  
ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL  
AND TRAFFIC BARRIER TERMINAL, OF THE TYPE  
SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drakeosgn	DESIGNED - M. DE YONG	REVISED - R. BORO 12-08-2008
pw:\ILB04EBIDENGINEIllinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\District 1\B34\B34.dgn		DATE = 09-14-2009	REVISED - R. BORO 09-14-2009
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 08-06-2012
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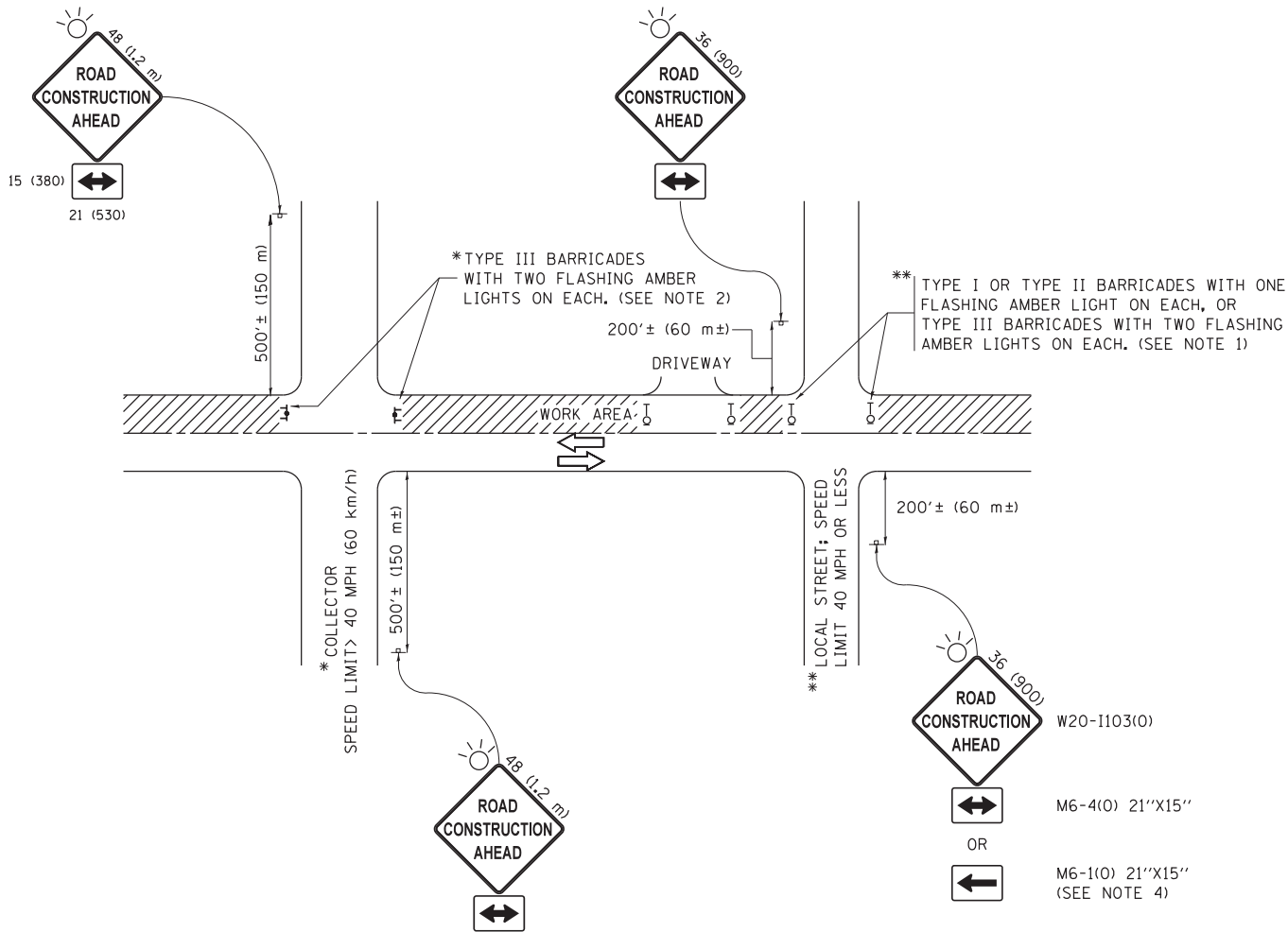
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY.1 SPL.**

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	55
<b>BD600-10 (BD 34)</b>		<b>CONTRACT NO. 62G48</b>		
ILLINOIS FED. AID PROJECT				





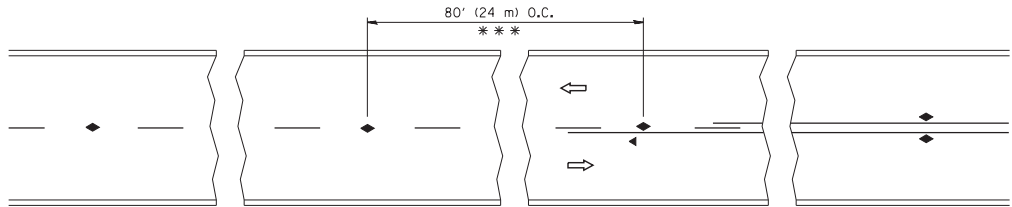
NOTES:

- 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:
  - 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.
  - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - 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.
  - 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.
- 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.
- 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

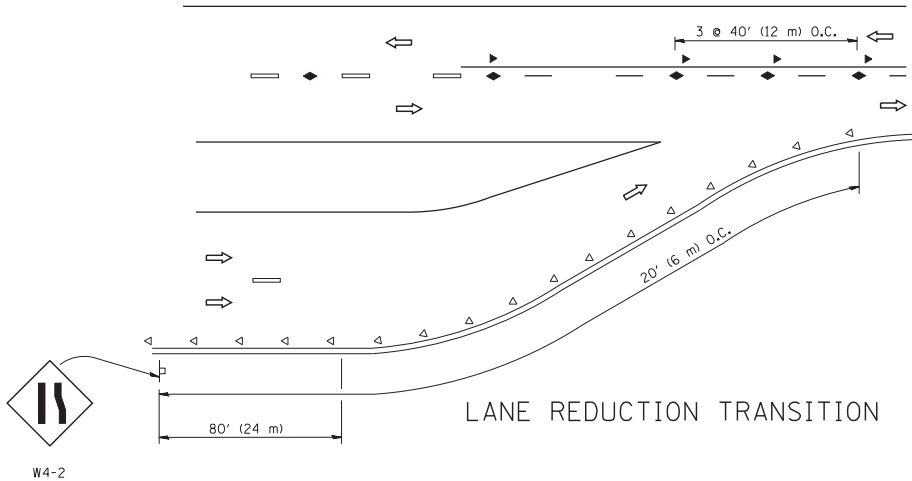
FILE NAME = p:\11\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\District 1\084EBID\CAD\Drawings\TCD\TCD.dgn	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	F.A. RTE. 336A	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE = 50.000' / in.	CHECKED -				2018-056-DR-7	MCHENRY	71	56
		PLOT DATE = 9/15/2016	DATE - 06-89				TC-10	CONTRACT NO.	62G48	
							ILLINOIS	FED. AID PROJECT		
Default					SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.



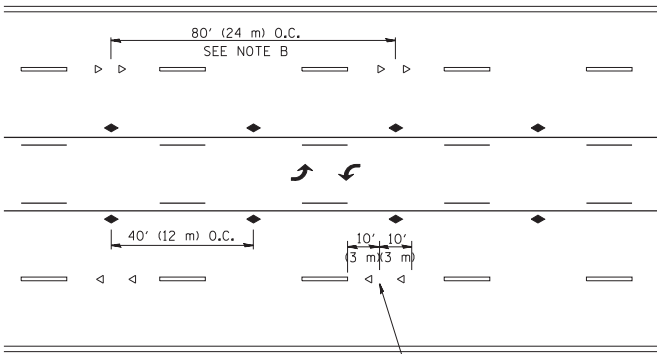


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

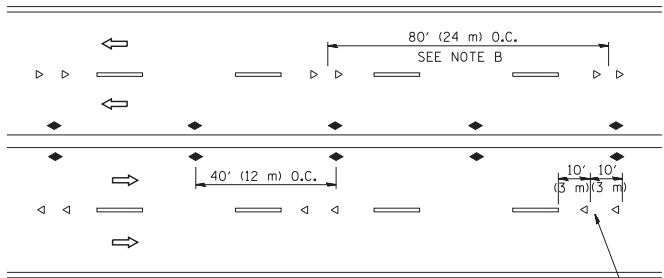


LANE REDUCTION TRANSITION



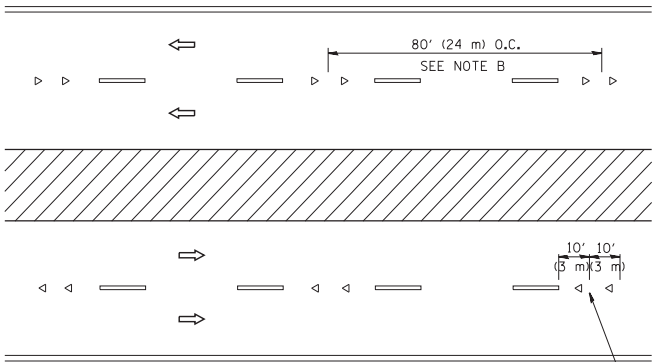
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

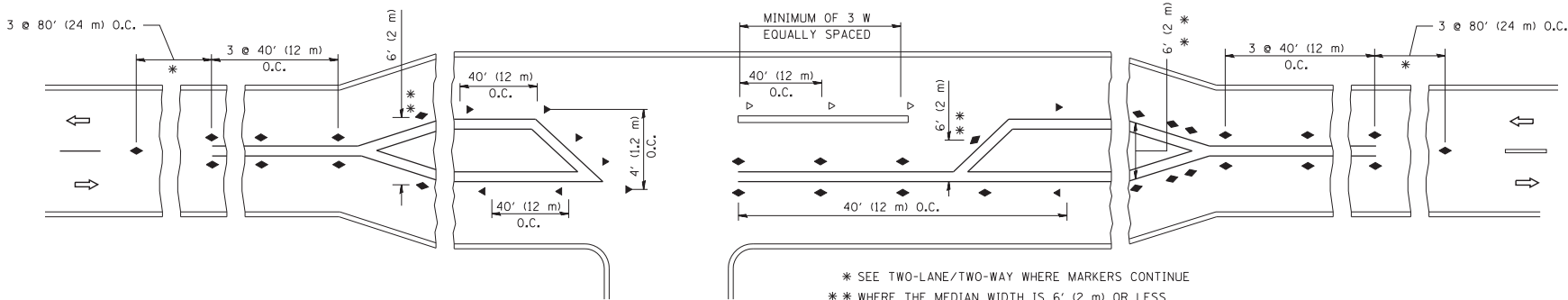
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

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



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

LEFT TURN

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

FILE NAME =	USER NAME = leyso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cr\pwork\pwork\leyso\d0108315\tc11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
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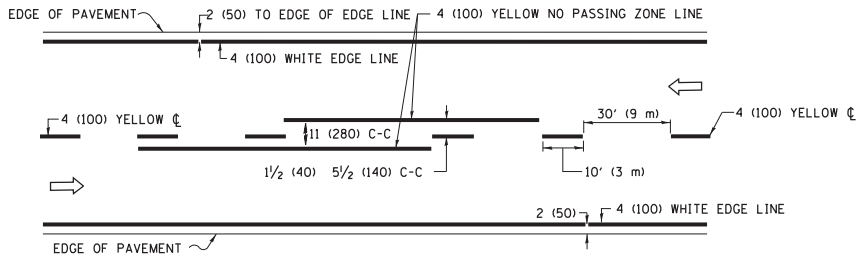
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

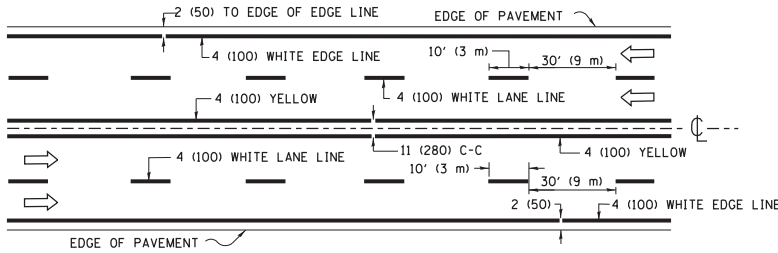
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	57
TC-11		CONTRACT NO. 62G48		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

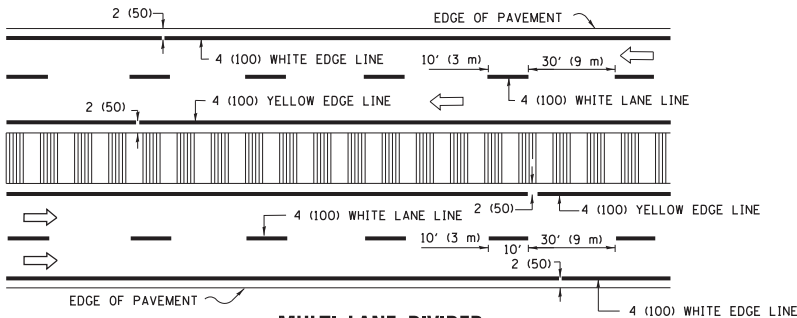




2-LANE ROADWAY

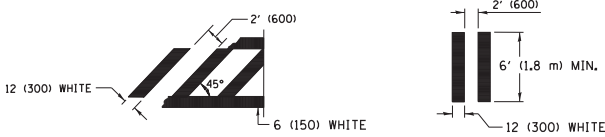
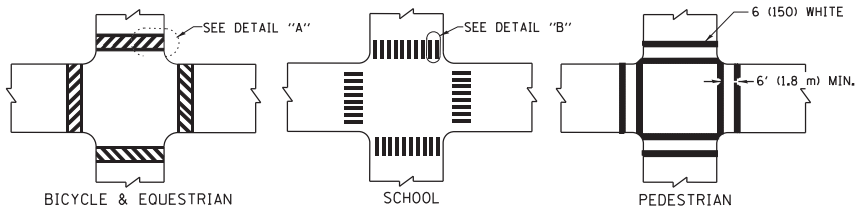


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED  
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

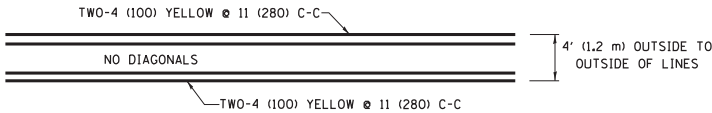


DETAIL "A"

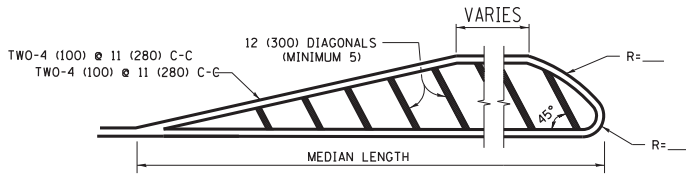
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

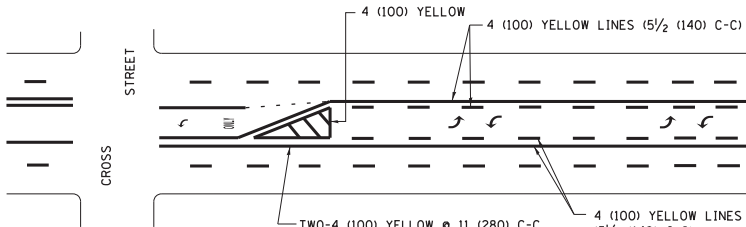


4' (1.2 m) WIDE MEDIANS ONLY

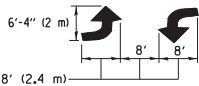


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

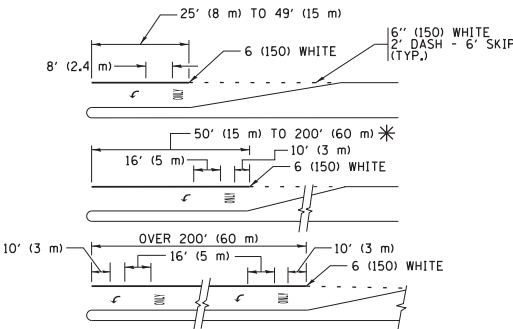


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

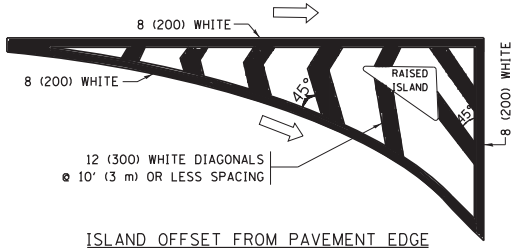


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

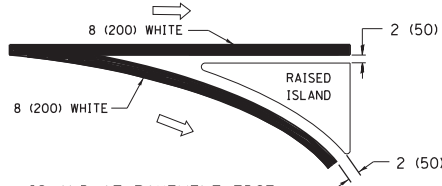
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

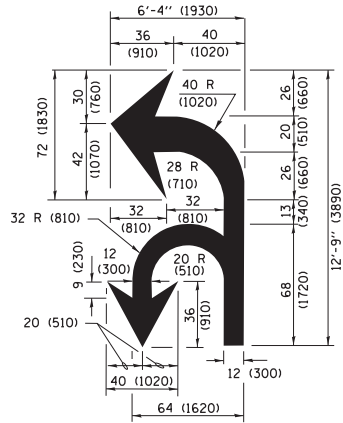


ISLAND OFFSET FROM PAVEMENT EDGE

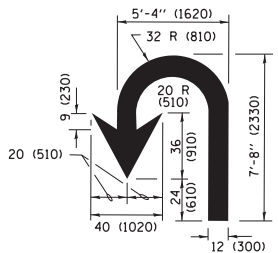


ISLAND AT PAVEMENT EDGE

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 1/2 (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 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8' )	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (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 = lleyso	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
W:\diststd\22x34\to13.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-7	MCHENRY	71	58
	TC-13		CONTRACT NO.	62G48
		ILLINOIS	FED. AID PROJECT	



TURN BAY ENTRANCE AT START  
OF LANE CLOSURE TAPER

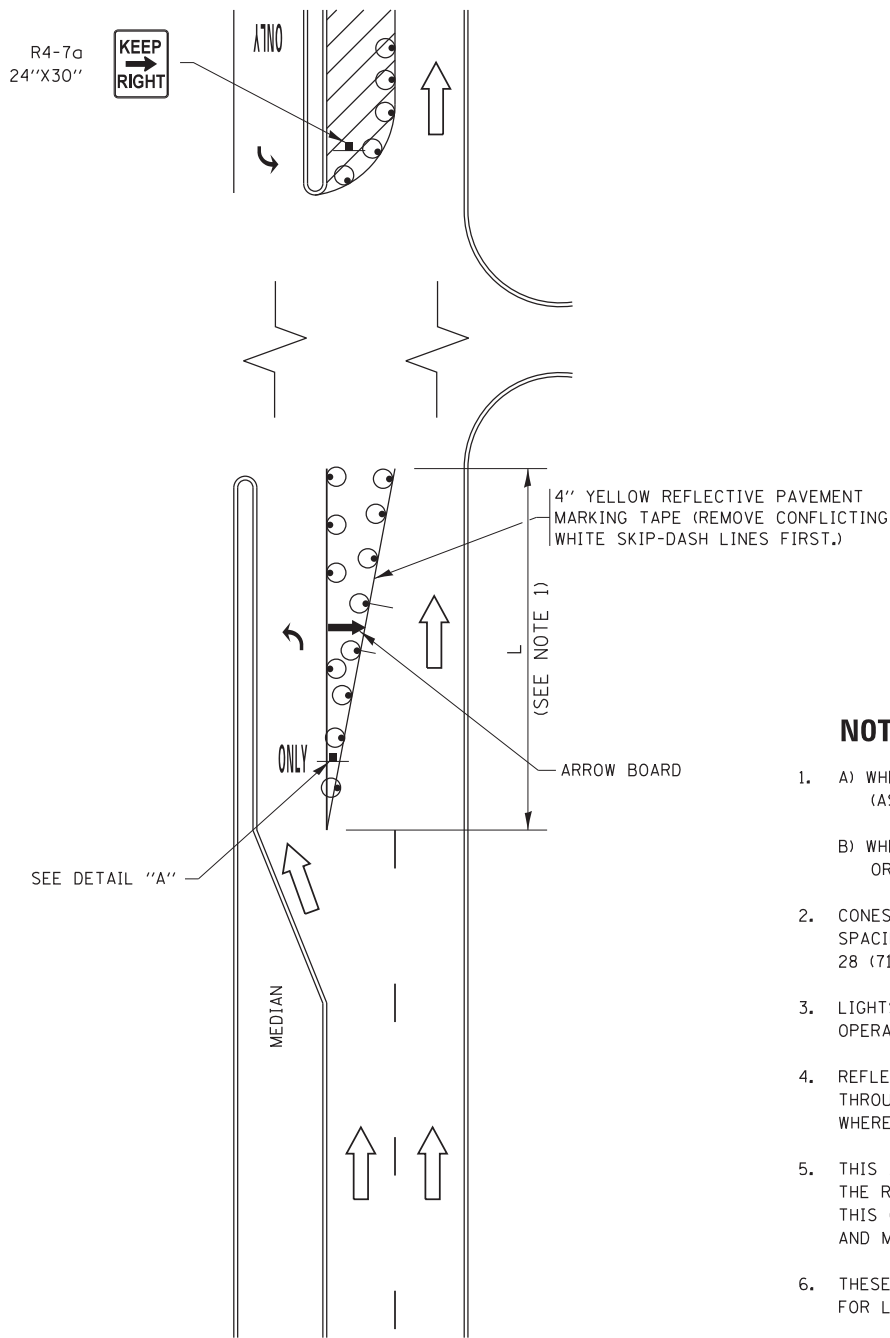
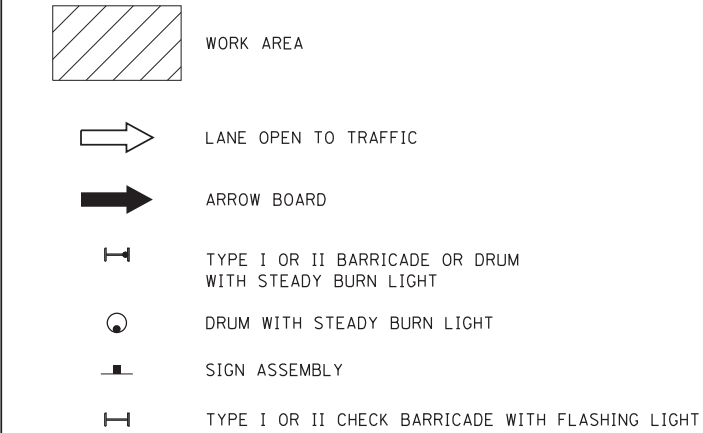


FIGURE 1

LEGEND



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 PREQUIREMENTS.
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.

TURN BAY ENTRANCE  
WITHIN A LANE CLOSURE

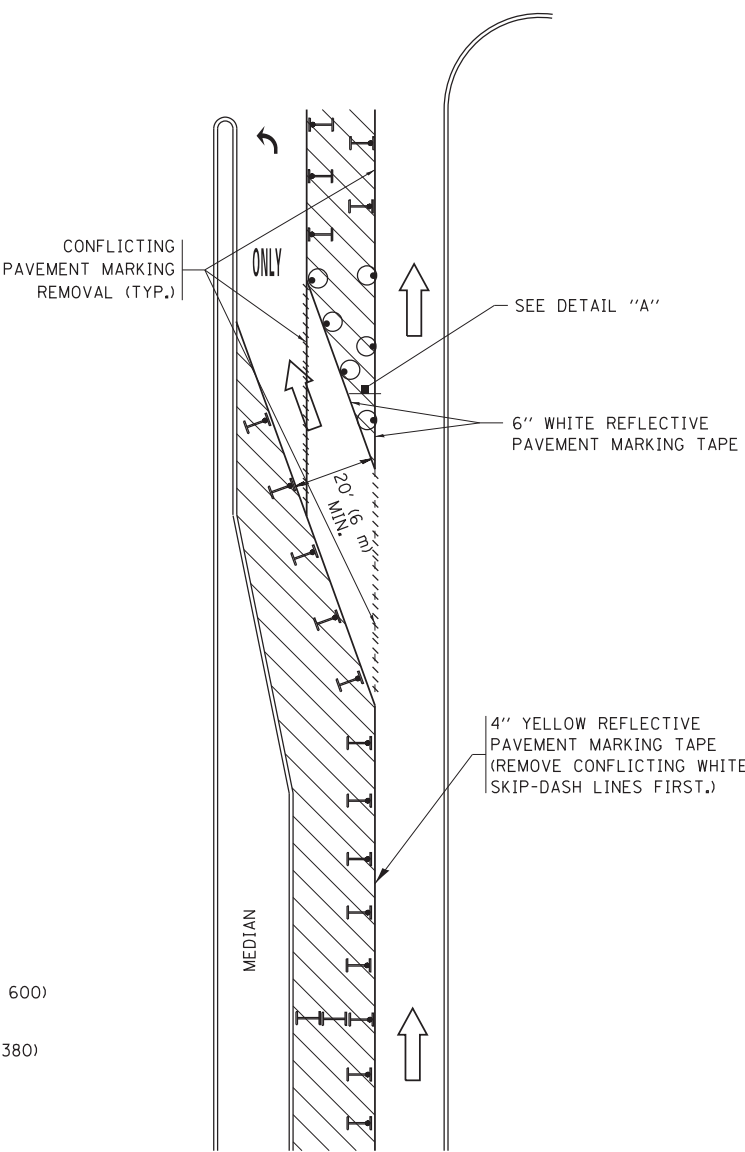
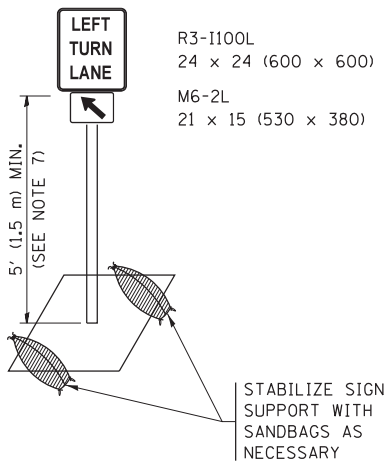


FIGURE 2

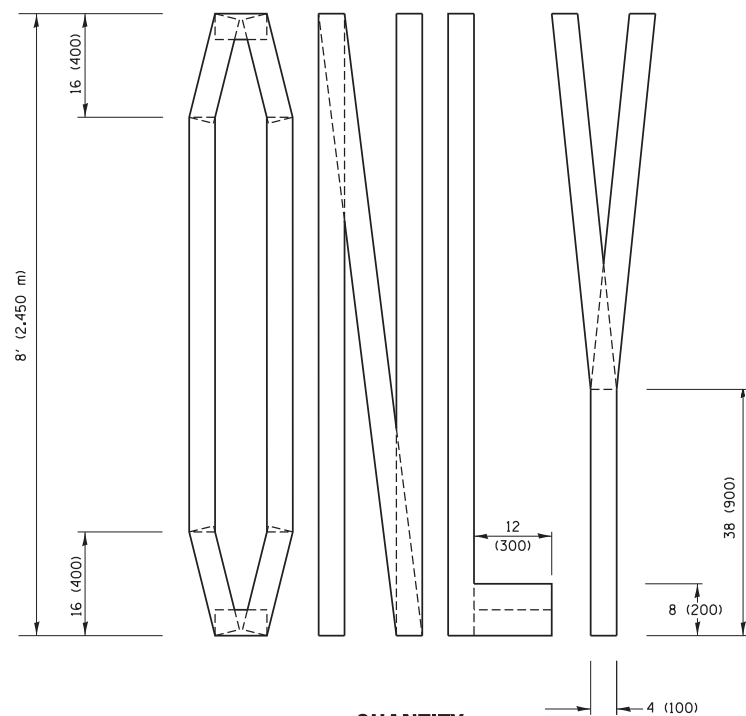
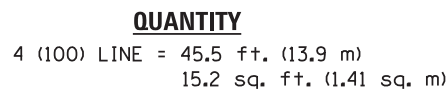


DETAIL A

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

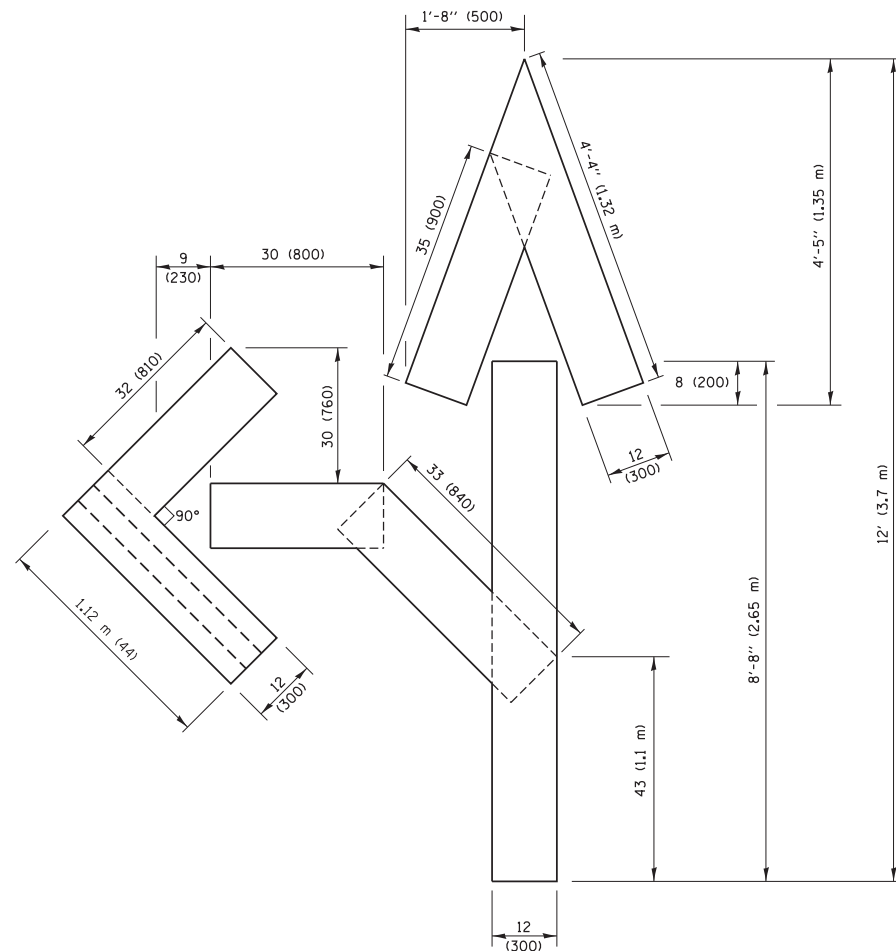
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p:\1\1084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\ADD\DATA\HOUSEH\10-07-95		REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13			336A	2018-056-DR-7	MCHENRY	71	59
PLOT SCALE = 50.0000' / in.		REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			TC-14		CONTRACT NO. 62G48		
Default	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -			ILLINOIS FED. AID PROJECT				





**QUANTITY**

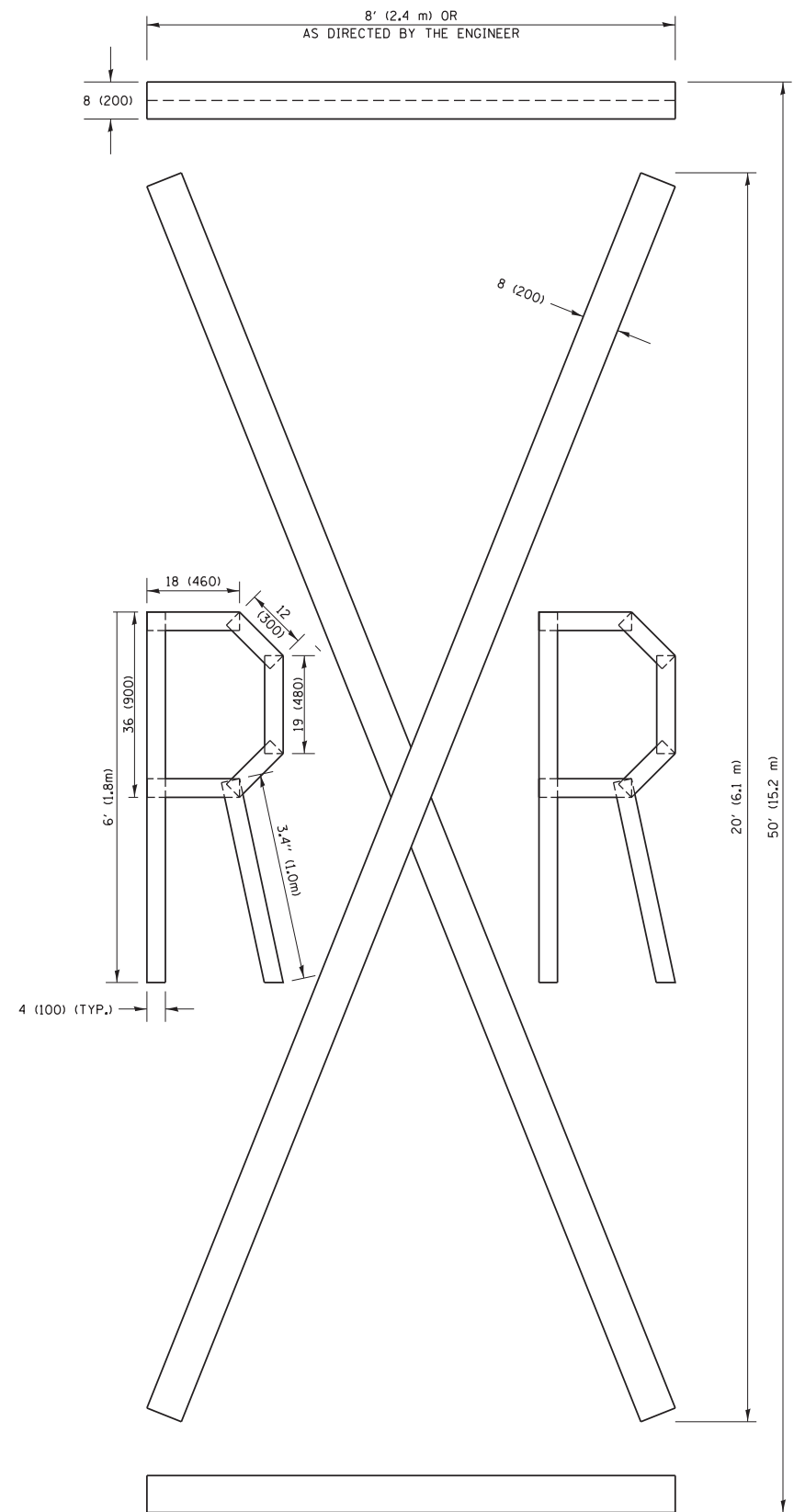
4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 sq. m)



**QUANTITY**

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

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.



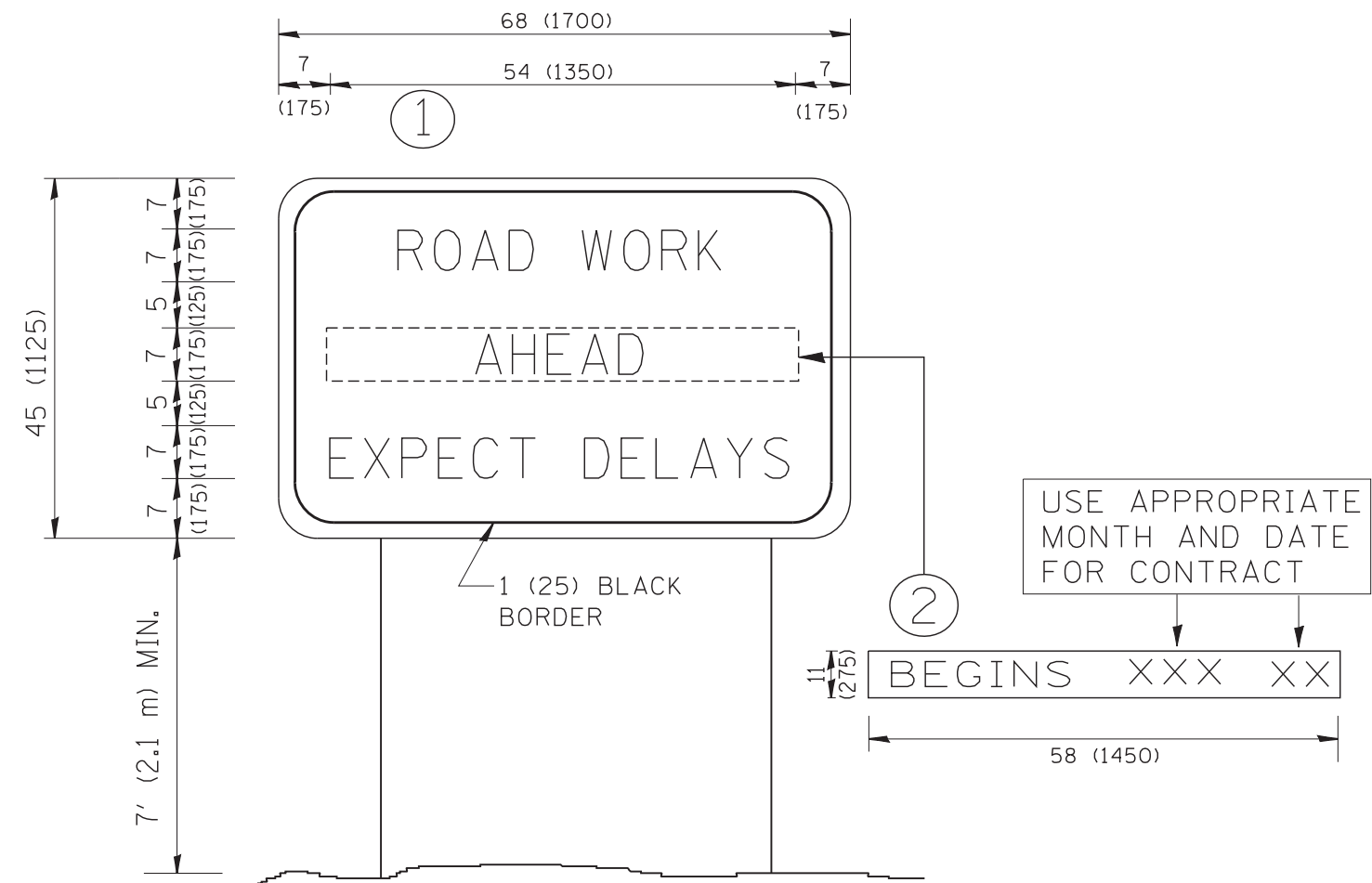
**QUANTITY**

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 = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</div>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\\ill084BIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\041111\CADData\CADsheets\tc16.dgn	DRAWN -	REVISED - E. GOMEZ 08-28-00	REVISED - E. GOMEZ 08-28-00						336A	2018-056-DR-7	MCHENRY	71	60
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	REVISED - A. SCHUETZ 09-15-16		TC-16		CONTRACT NO. 62G48						
PLOT DATE = 9/15/2016	DATE = 09-18-94				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			





## NOTES:

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE. 336A	SECTION 2018-056-DR-7	COUNTY MCHENRY	TOTAL SHEETS 71	SHEET NO. 61
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 62G48		
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE			SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.
								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 = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ct\pw\work\p\idot\gaglianobt\d0108315\tc26.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

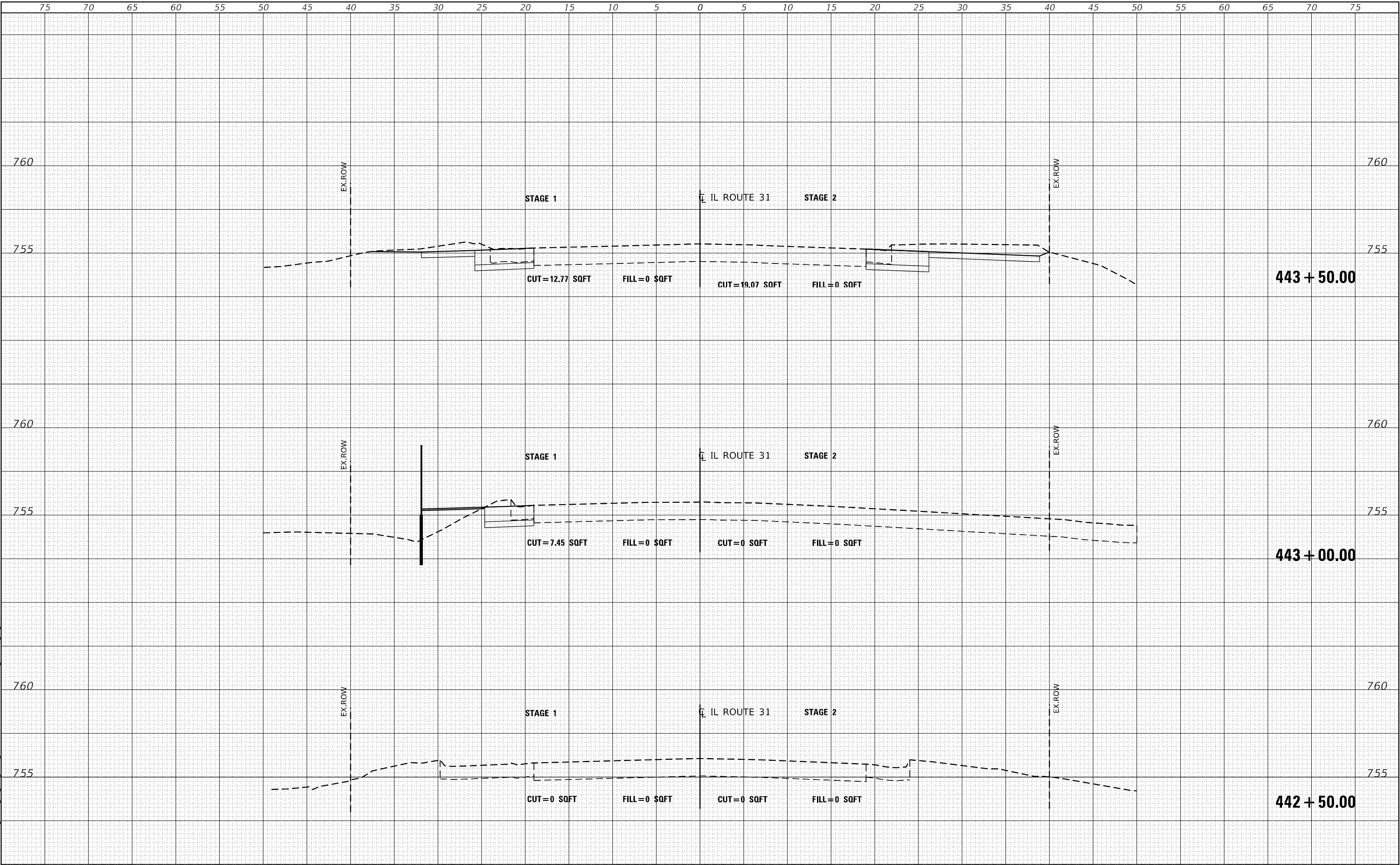
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TC-26		CONTRACT NO. 62G48		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



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

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
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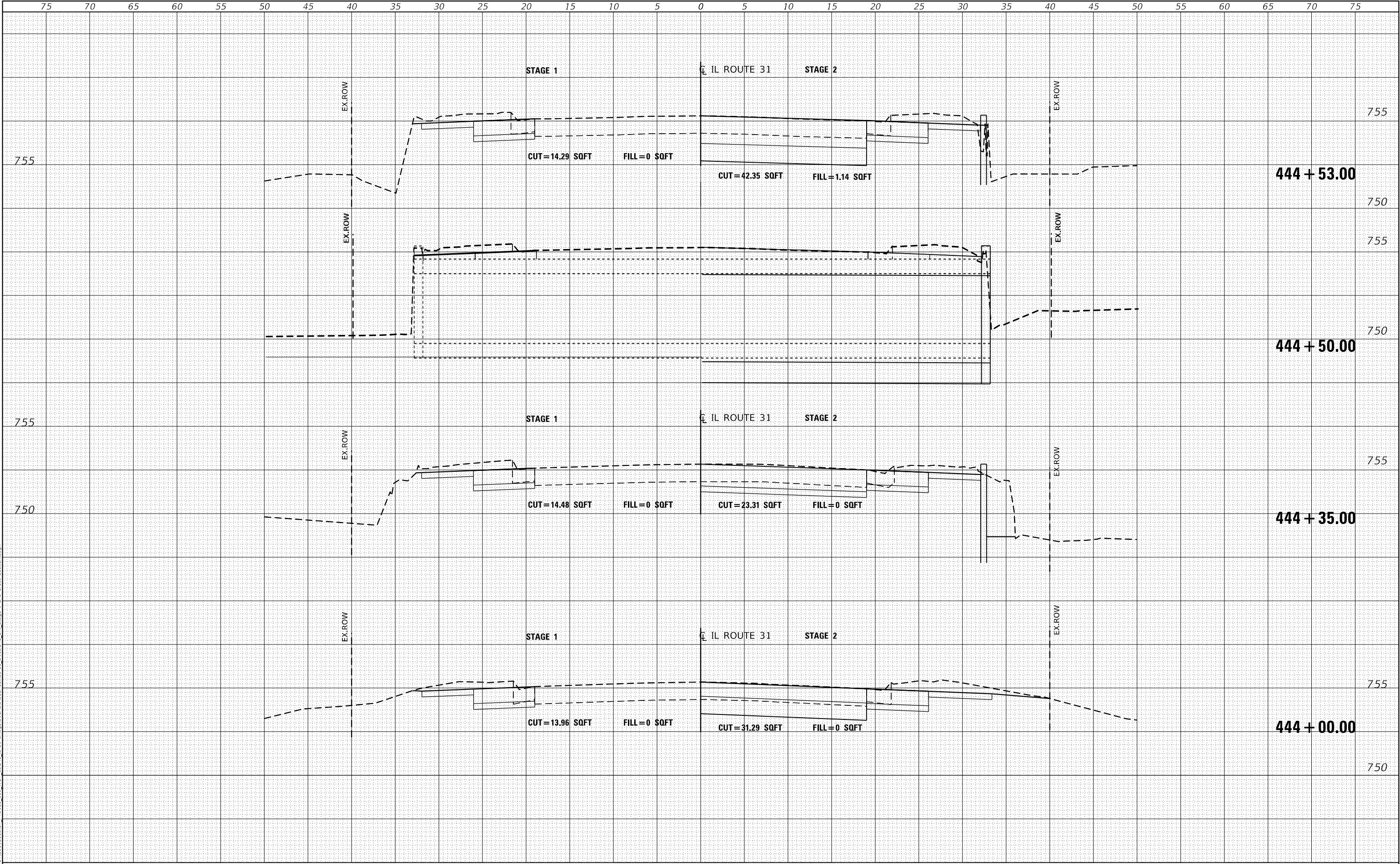




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NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

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NOTE BOOK	TEMPLATE	
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111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME =	tmoahmed
PLOT SCALE =	10.0000 ' / in.
PLOT DATE =	12/11/2018

DESIGNED -	TOM
DRAWN -	TOM
CHECKED -	MO
DATE -	11/19/2018

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL CROSS SECTIONS STAGE 1 & 2

SCALE: SHEET OF SHEETS STA. 444+00.00 TO STA. 444+53.00

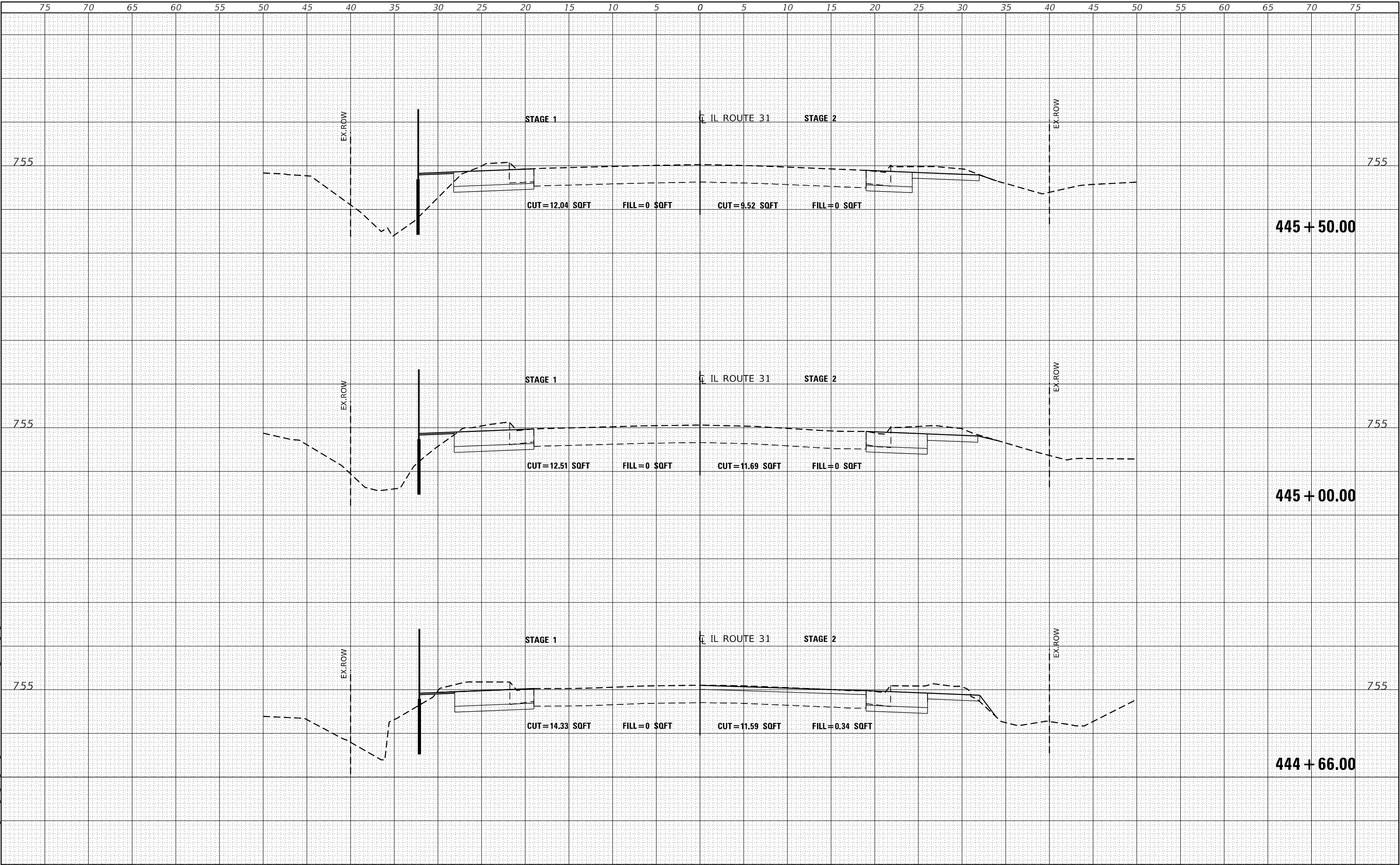
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		CONTRACT NO. 62G48		
		ILLINOIS FED. AID PROJECT		



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

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SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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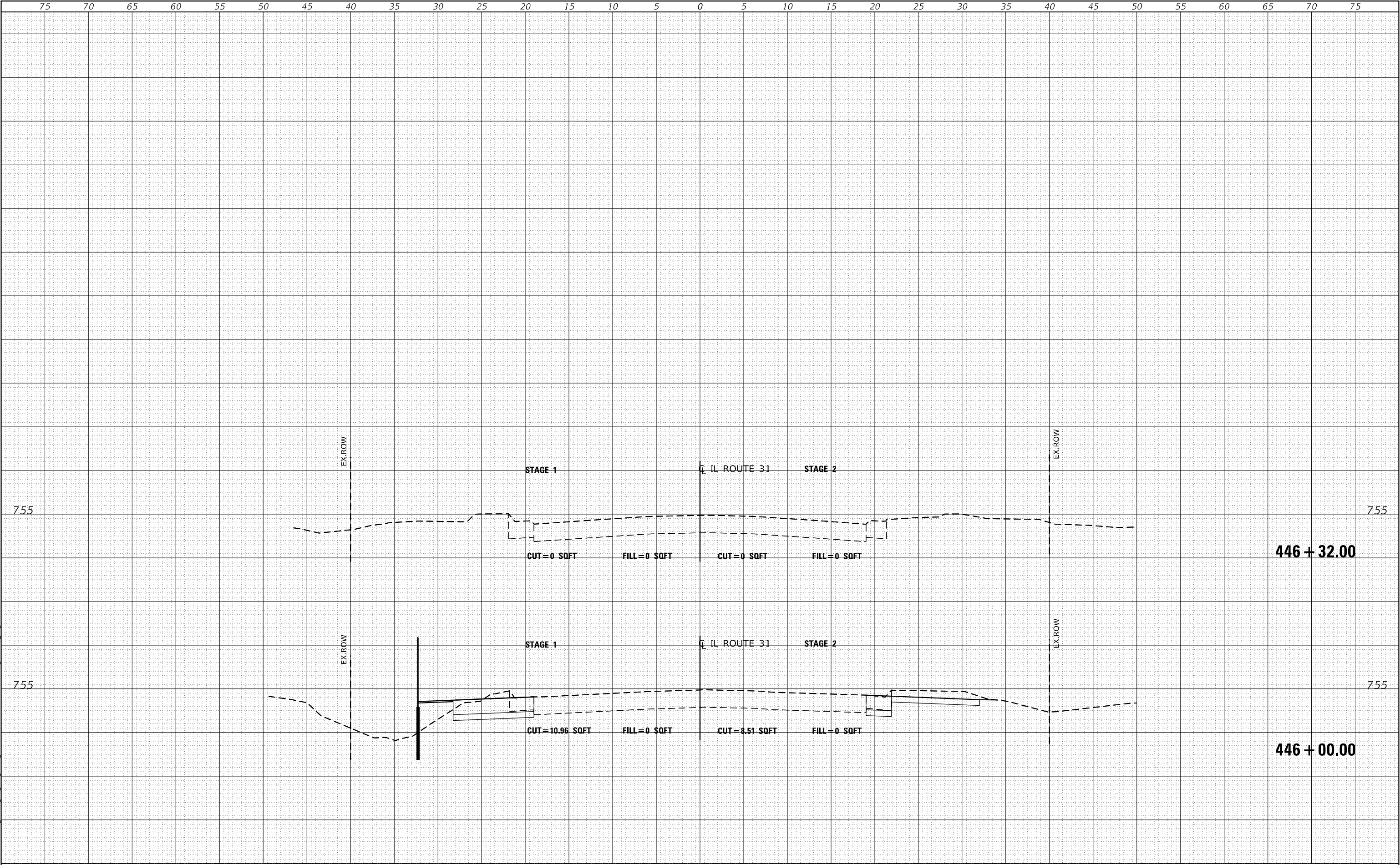




FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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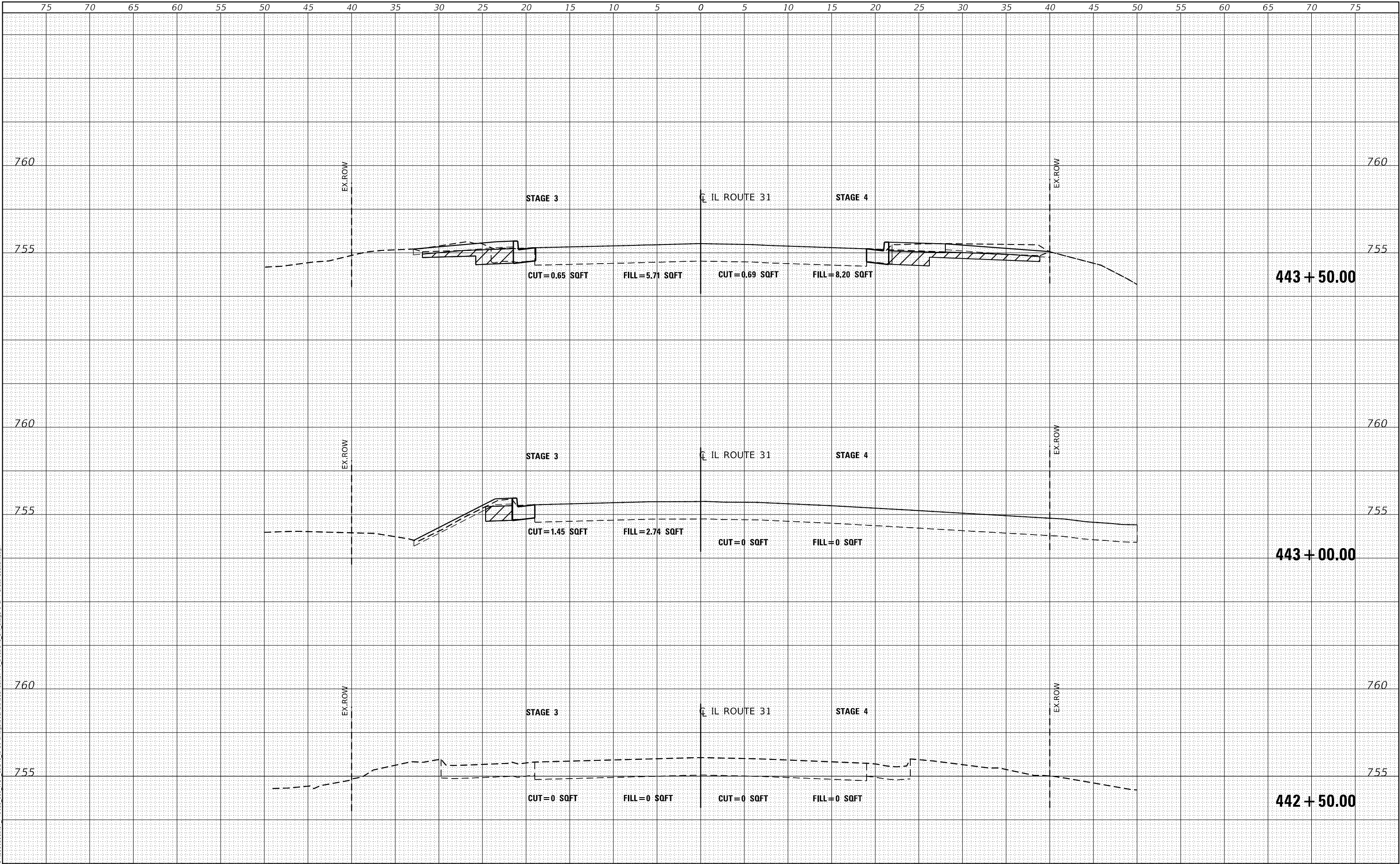





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111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 10,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL CROSS SECTIONS STAGE 3 & 4

SCALE:	SHEET	OF	SHEETS	STA. 442+50.00	TO STA. 443+50.00
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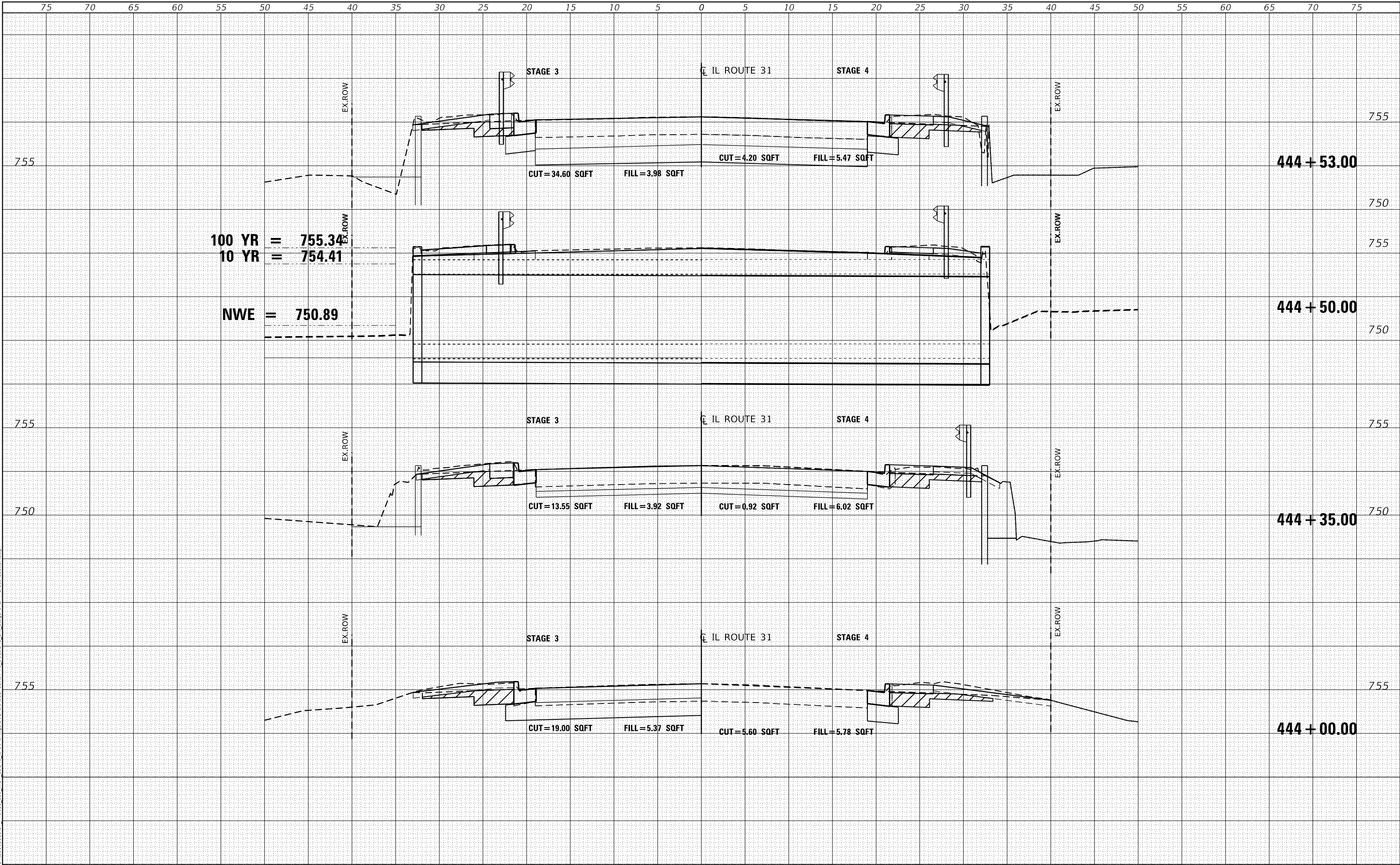
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CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
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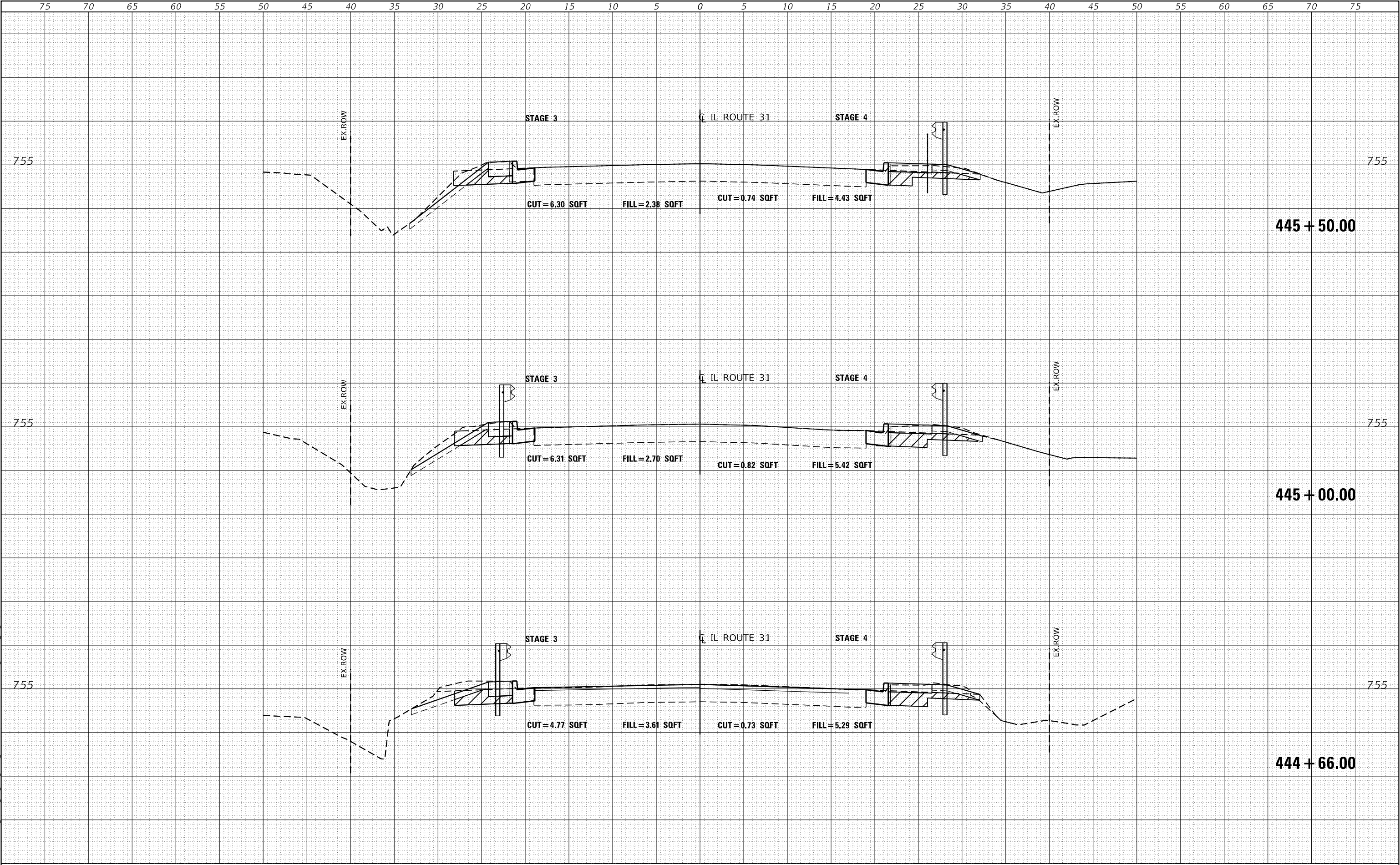




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FINAL					
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**AES** ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISIED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 31 OVER UNNAMED TRIBUTARY TO FOX RIVER  
SUGGESTED TRAFFIC CONTROL CROSS SECTIONS STAGE 3 & 4

SCALE: SHEET OF SHEETS STA. 444+66.00 TO STA. 445+50.00

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CONTRACT NO. 62G48				
ILLINOIS FED. AID PROJECT				

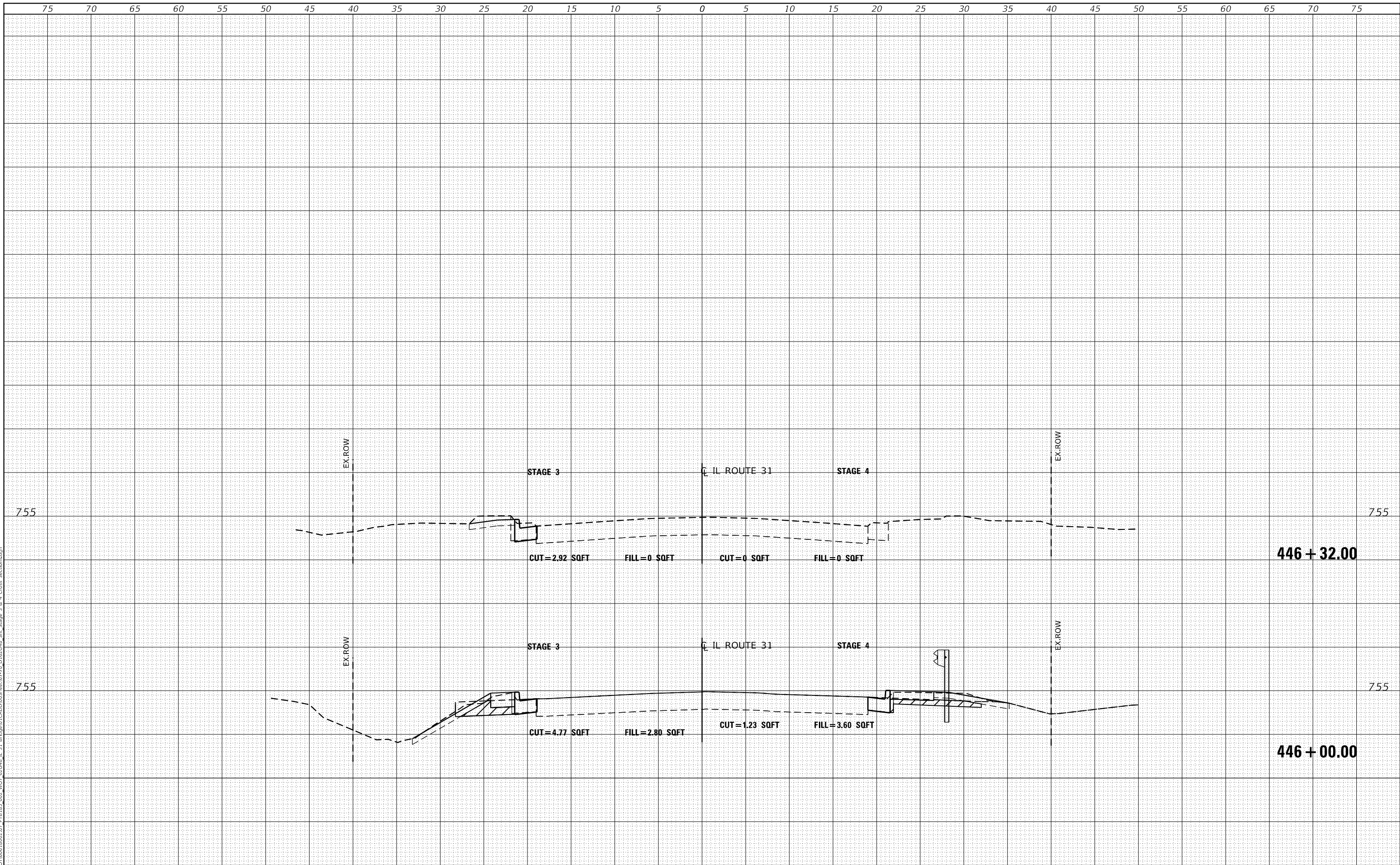



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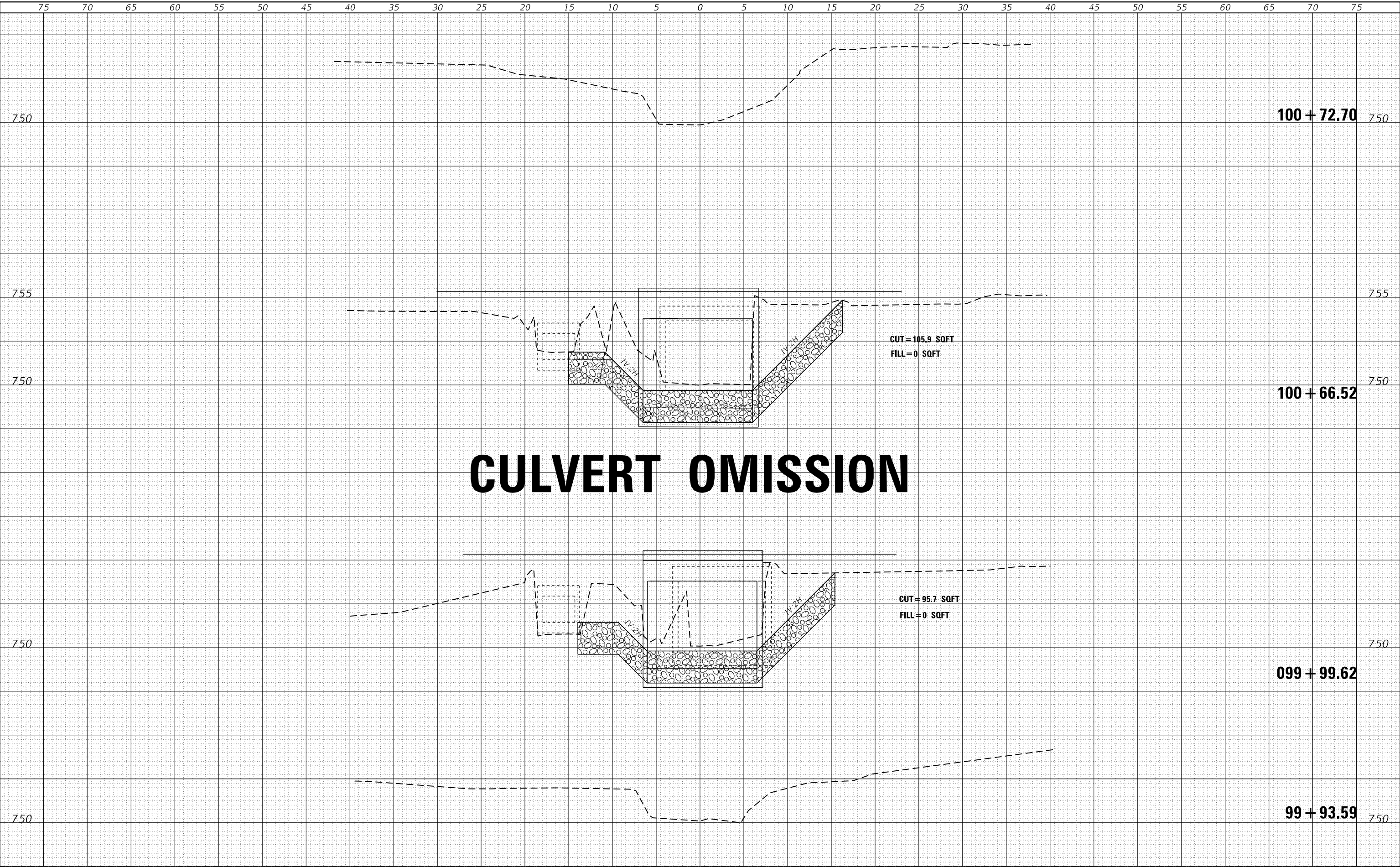
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SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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

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# CULVERT OMISSION