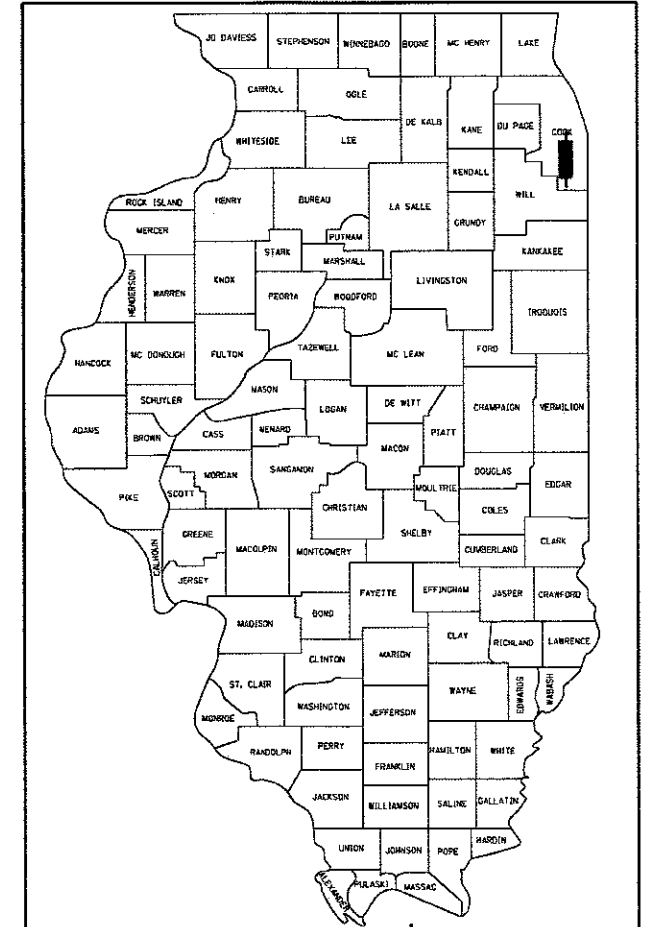


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

*138+2=140 TOTAL SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	1
ILLINOIS CONTRACT NO. 60K78				

D-91-596-10



LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA:

IL 83 / US 6: EX. ADT = 25,400 (2013)
 EX. TRUCKS = 465 (1.83%)
 IL 83 / US 6: PR. ADT = 30,000 (2030)

POSTED SPEED LIMIT = 40 MPH
 DESIGN SPEED = 40 MPH

HIGHWAY FUNCTIONAL CLASS: OTHER PRINCIPAL ARTERIAL (SRA 302)
 TRUCK ROUTE CLASSIFICATION: CLASS II

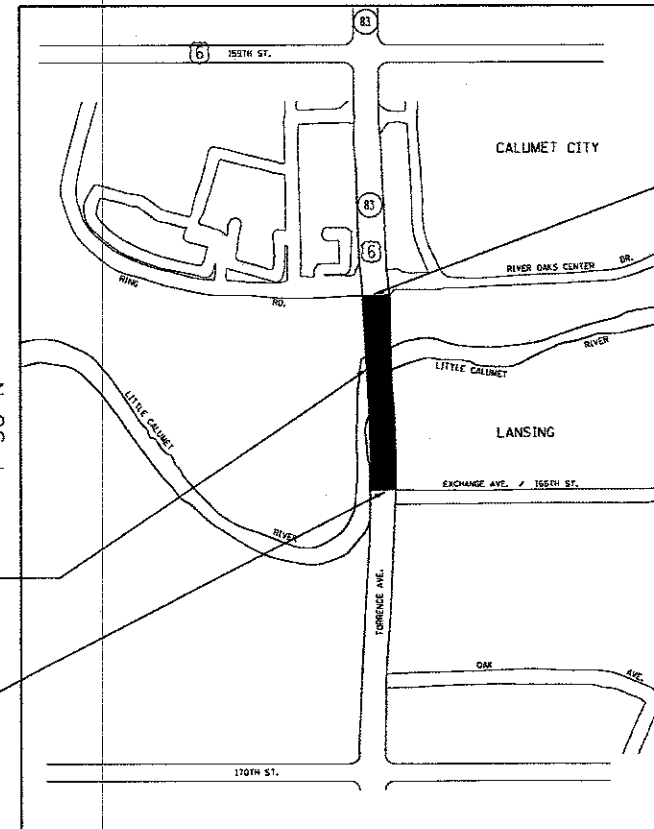
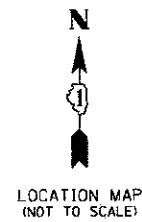
ORIGINAL CONSTRUCTION YEAR: 1923
 SUPERSTRUCTURE REPLACEMENT YEAR: 1960
 ORIGINAL SUBSTRUCTURE HAS NOT BEEN REPLACED

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 358 - IL 83 / US 6 (TORRENCE AVE)
 OVER THE LITTLE CALUMET RIVER
 SECTION 0909.1-B
 PROJECT: NHPP ID9X(590)
 BRIDGE REPLACEMENT
 COOK COUNTY
 C-91-596-10

R 14 E R 15 E

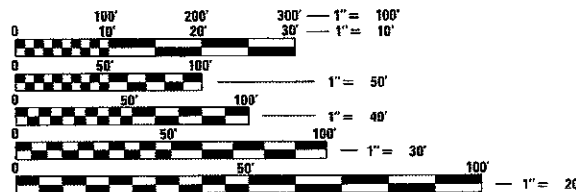
THIS PROJECT IS LOCATED IN
 THE CITY OF CALUMET CITY
 AND THE VILLAGE OF LANSING



PROJECT ENDS
 STA. 179 + 45

STRUCTURE 016-1302
 PR. 3 SPAN STEEL

PROJECT BEGINS
 STA. 170 + 61



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

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

PROJECT ENGINEER: CRAIG BAUER / (847) 705-4265
 PROJECT MANAGER: LONG TRAN / (847) 705-4232

CONTRACT NO. 60K78

THORNTON TOWNSHIP
 GROSS AND NET LENGTH = 884 FT. = 0.17 MILES

GRÄEF 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

PROFESSIONAL ENGINEER'S SIGN & SEAL 1/23/18
 Peter M. Johnston
 DE2-047647
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
 EXPIRES: 11/30/2019

STRUCTURAL ENGINEER'S SIGN & SEAL 1/23/2018
 [Signature]
 081-004706
 EXPIRES: 11/30/2018

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SUBMITTED January 24, 2018
 Anthony J. [Signature] / RB REGIONAL ENGINEER
 Marc [Signature] 23/18
 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT
 May 23, 2018
 Daniel P. [Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS AND HIGHWAY STANDARDS
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5-14	SUMMARY OF QUANTITIES
15	TYPICAL SECTIONS
16-21	SCHEDULES OF QUANTITIES
22	ALIGNMENT, TIES, AND BENCHMARKS
23	REMOVAL PLAN
24	PLAN AND PROFILE
25-26B	SUGGESTED CONSTRUCTION TYPICAL SECTIONS
27-29	SUGGESTED STAGING AND TRAFFIC CONTROL
30	EROSION AND SEDIMENT CONTROL PLAN
31-32	EROSION AND SEDIMENT CONTROL DETAILS
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34	DRAINAGE PLAN
35-37	S.U.E. PLANS
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63	TEMPORARY INTERCONNECT PLAN
64-67	TRAFFIC SIGNAL INTERCONNECT PLANS
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115	ADA RAMPS
116	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15' (4.5 m) (BD01)
117	DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)XBD-05)
118	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER (BD-07)
119	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
120	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD34)
121	BENCHING CONSTRUCTION DETAIL (BD51)
122	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
123	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT (TC11))
124	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
125	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC14)
126	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC16)
127	ARTERIAL ROAD INFORMATION SIGN (TC22)
128	DRIVEWAY ENTRANCE SIGNING
129	BICYCLE RAILING, SPECIAL
130-138	CROSS SECTIONS

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-06	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
420001-09	PAVEMENT JOINTS
420111-04	PCC PAVEMENT ROUNDOUTS
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIA
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602401-04	MANHOLE TYPE A
602406-08	MANHOLE TYPE A 6' (1.8 m) DIAMETER
602411-06	MANHOLE TYPE A 7' (2.1 m) DIAMETER
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604091-03	FRAME AND GRATE, TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701502-08	URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES

HIGHWAY STANDARDS

STD. NO.	TITLE
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-07	STEEL MAST ARM ASSEMBLE AND POLE, 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
INDEX OF SHEETS AND HIGHWAY STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	2
CONTRACT NO. 60K7B				
ILLINOIS FED. AID PROJECT				

SHEET NO. INDEX-1 OF 1

COMMITMENTS

1 NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

HOT-MIX ASPHALT 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); 1 3/4"	4.0% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT SHOULDERS, 8"		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 8" (IN 2 LIFTS)	4.0% @ 70 Gyr.	QC/QA
CLASS D PATCHES, SPECIAL		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4.0% @ 70 Gyr.	QC/QA
HMA BASE COURSE (HMA BINDER, IL-19mm), 8" (IN 2 LIFTS)	4.0% @ 70 Gyr.	QC/QA
TEMPORARY PAVEMENT*		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4.0% @ 70 Gyr.	QC/QA
TEMPORARY PAVEMENT (HMA BINDER, IL-19mm), 8" (IN 2 LIFTS)	4.0% @ 70 Gyr.	QC/QA
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA)		


THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES IS 112 LBS/SQ YD/IN.
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR
NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE
SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL
PROVISIONS.

*PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE
REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS. PCC THICKNESS SHALL BE
8." PCC TEMPORARY PAVEMENT DOES NOT REQUIRE DOWEL BARS.

*TEMPORARY PAVEMENT USING EITHER HMA OR PCC OPTION SHALL BE PLACED OVER 4"
SUBBASE GRANULAR MATERIAL TY B. THE COST OF THE SUBBASE GRANULAR MATERIAL TY B
SHALL BE INCLUDED IN THE COST OF EITHER TEMPORARY HMA OR PCC PAVEMENT.

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
HMA MIXTURE REQUIREMENTS

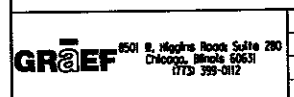
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358	0909.1-B	COOK	138	4
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

SHEET NO. GEN-2 OF 2

REN

CODE NO.	DESCRIPTION	UNIT	80/20 (FED) STATE TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010 S.N. 016-1302	0021	0021	0021
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	139	139				
20101000	TEMPORARY FENCE	FOOT	1,007	1,007				
20200100	EARTH EXCAVATION	CU YD	3,383	3,383				
20400800	FURNISHED EXCAVATION	CU YD	1,517	1,517				
20800150	TRENCH BACKFILL	CU YD	366	366				
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	529	529				
* 25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1				
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26	26				
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26	26				
* 25100630	EROSION CONTROL BLANKET	SQ YD	1,786	1,786				
* 25100900	TURF REINFORCEMENT MAT	SQ YD	480	480				
* 25200110	SODDING, SALT TOLERANT	SQ YD	1,403	1,403				
* 25200200	SUPPLEMENTAL WATERING	UNIT	42	42				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	47	47				
28000305	TEMPORARY DITCH CHECKS	FOOT	160	160				
28000315	AGGREGATE DITCH CHECKS	TON	7	7				
28000400	PERIMETER EROSION BARRIER	FOOT	1,068	1,068				
28000510	INLET FILTERS	EACH	15	15				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**

SHEET NO. 500-1 OF 10

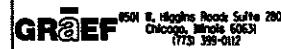
F.A.P RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 5
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

*Specialty Item

CODE NO.	DESCRIPTION	UNIT	80/20 (FED) STATE TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010 S.N. 016-1302	0021	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,678	336	1,342			
28200200	FILTER FABRIC	SQ YD	1,678	336	1,342			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4,795	4,795				
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	360	360				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	83	83				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	28	28				
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	1,559	1,559				
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	2,644	2,644				
42001300	PROTECTIVE COAT.	SQ YD	5,697	5,697				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	44	44				
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	7,780	7,780				
42400800	DETECTABLE WARNINGS	SQ FT	30	30				
44000100	PAVEMENT REMOVAL	SQ YD	4,423	4,423				
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	192	192				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	73	73				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,438	1,438				
44000600	SIDEWALK REMOVAL	SQ FT	3,607	3,607				
44003100	MEDIAN REMOVAL	SQ FT	2,327	2,327				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**

SHEET NO. 500-2 OF 10

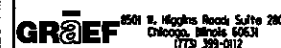
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	6
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

* Specialty Item

REV

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	646	646				
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	259	259				
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1			
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1				
50200100	STRUCTURE EXCAVATION	CU YD	727		727			
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	650		650			
50300225	CONCRETE STRUCTURES	CU YD	470		470			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	816		816			
50300260	BRIDGE DECK GROOVING	SO YD	2,253		2,253			
50300280	CONCRETE ENCASEMENT	CU YD	14		14			
50300300	PROTECTIVE COAT	SO YD	3,152		3,152			
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	272		272			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1			
50500505	STUD SHEAR CONNECTORS	EACH	12,441		12,441			
50800105	REINFORCEMENT BARS	LB	52,830		52,830			
50800205	REINFORCEMENT BARS, EPOXY COATED	LB	312,400		312,400			
50800515	BAR SPLICERS	EACH	1,458		1,458			
50900105	ALUMINUM RAILING, TYPE L	FOOT	214		214			
50901720	BICYCLE RAILING	FOOT	498	223	275			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**

SHEET NO. 500-3 OF 10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	7
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
50901750	PARAPET RAILING	FOOT	270		270			
51201600	FURNISHING STEEL PILES HP12X53	FOOT	2,098		2,098			
51202305	DRIVING PILES	FOOT	2,098		2,098			
51203600	TEST PILE STEEL HP12X53	EACH	4		4			
51500100	NAME PLATES	EACH	1		1			
* 51603000	DRILLED SHAFT IN SOIL	CU YD	315		315			
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	26		26			
52100520	ANCHOR BOLTS, 1"	EACH	104		104			
52200010	TEMPORARY SHEET PILING	SO FT	440		440			
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1				
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1	1				
54261315	CONCRETE END SECTION, STANDARD 542001, 15", 1:3	EACH	1	1				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	348	348				
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	375	375				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	52	52				
550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	24	24				
550A0780	STORM SEWERS, CLASS A, TYPE 3 48"	FOOT	104	104				
55100400	STORM SEWER REMOVAL 10"	FOOT	170	170				
55100500	STORM SEWER REMOVAL 12"	FOOT	262	262				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**


SHEET NO. 500-4 OF 10

**Specialty Item*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	8
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
55100700	STORM SEWER REMOVAL 15"	FOOT	143	143				
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	200		200			
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	13	13				
60107600	PIPE UNDERDRAINS 4"	FOOT	154	154				
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	10	10				
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5				
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
60261540	INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
60500040	REMOVING MANHOLES	EACH	1	1				
60500050	REMOVING CATCH BASINS	EACH	3	3				
60500060	REMOVING INLETS	EACH	3	3				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	76	76				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,169	1,169				
60623800	CONCRETE BARRIER MEDIAN	SQ FT	2,140	2,140				
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,114	1,114				
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2				
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4				

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 <small>1501 N. Highway 1000 Suite 200 Chicago, Illinois 60631 773-399-0121</small>	USER NAME = 1928	DESIGNED - JWB	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**

SHEET NO. 500-5 OF 10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	9
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

*Specialty Item

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0003		TRAFFIC SIGNALS 0021		
				80% FED 20% STATE	BRIDGE 0010 S.N. 016-1302	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1				
63200310	GUARDRAIL REMOVAL	FOOT	1,366	1,366				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,350	1,350				
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4				
67100100	MOBILIZATION	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	180	180				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,885	1,885				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	762	762				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	14,237	14,237				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2,550	2,550				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	50	50				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	302	302				
* 70300005	Temporary PAVEMENT MARKING REMOVAL	SQ FT	7,399	7,399				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	736	736				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	747	747				
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2				
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	4	4				
* 72000100	SIGN PANEL - TYPE 1	SQ FT	30			12	18	

*Specialty Item

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GRÖEF 4501 N. Higgins Road, Suite 200
Chicago, Illinois 60630
(773) 395-0112

USER NAME = 1988	DESIGNED - JWB	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
SUMMARY OF QUANTITIES**


SHEET NO. 500-6 OF 10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K78	

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
* 72000200	SIGN PANEL - TYPE 2	SO FT	70			55	15	
* 72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	6	6				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	146	146				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,510	1,510				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	914	914				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	103	103				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	155	155				
* 78008300	POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS	SO FT	182	182				
* 78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	3,644	3,644				
* 78008330	POLYUREA PAVEMENT MARKING TYPE II - LINE 6"	FOOT	873	873				
* 78008350	POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	75	75				
* 78008370	POLYUREA PAVEMENT MARKING TYPE II - LINE 24"	FOOT	84	84				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	71	71				
* X032797	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	9827	9827				
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	87	87				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,388			318	410	660
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	20			20		
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	81				81	

* Specialty Item

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	PLOT SCALE = 1/8" = 100'	CHECKED - RS	REVISED -			SHEET NO. 500-7 OF 10	CONTRACT NO. 60K78			
	PLOT DATE = 1/29/2018 3:32:29 PM	DATE - 01/23/2018	REVISED -			ILLINOIS FED. AID PROJECT				

REV

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
* 81100600	CONDUIT ATTACHED TO STRUCTURE,-2" DIA., GALVANIZED STEEL	FOOT	216					216
* 81400100	HANDHOLE	EACH	3			1	1	1
* 81400200	HEAVY-DUTY HANDHOLE	EACH	3			2	1	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2					2
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,140					1,140
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	202				202	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	226				226	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	787			357	430	
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1			1		
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12			4	8	
* 87900200	DRILL EXISTING HANDHOLE	EACH	21			4	8	9
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2				2	
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	98			98		
* 88600700	PREFORMED DETECTOR LOOP	FOOT	405			232	173	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2				2	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2			1	1	
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300					300

*Specialty Items

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 1501 W. Higgins Road Suite 200 Chicago, Illinois 60631 (773) 399-9112	USER NAME = 1988	DESIGNED - JWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER SUMMARY OF QUANTITIES	F.A.P RTE. 358	SECTION D909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 12
	PLOT SCALE = 1/8" = 100'-0" / 1" = 100'-0" PLOT DATE = 1/29/2018 3:32:30 PM	CHECKED - RS	DATE - 01/23/2018			REVISED -	SHEET NO. S00-8 OF 10	ILLINOIS FED. AID PROJECT		CONTRACT NO. 60K78

REV

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	TRAFFIC SIGNALS		
				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1021				804	217
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1		
* 89502380	REMOVE EXISTING HANDHOLE	EACH	5			3	2	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1			1		
* A2007916	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
* B2000764	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	6	6				
* B2001616	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	7	7				
* B2006316	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	3	3				
* C2000652	SHRUB, ARONIA MELANOCARPA AUTUMN MAGIC, (AUTUMN MAGIC BLACK CHOKEBERRY), 2' HEIGHT, BALLED AND BURLAPPED	EACH	33	33				
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	10	10				
* X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.2	0.2				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1				
X4420828	CLASS D PATCHES, TYPE III, 12 INCH (SPECIAL)	SQ YD	70	70				
X5091725	BICYCLE RAILING, SPECIAL	FOOT	435	435				
X5120003	PRECORING	FOOT	382		382			
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	396		396			
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	14	14				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7240207	REMOVE EXISTING SIGN COMPLETE	EACH	1	1				

* Specialty Items

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	PLOT SCALE = 1/8" = 100'-0" / 1"	CHECKED - RS	REVISED -			SHEET NO. 500-9 OF 10	CONTRACT NO. 60K78			
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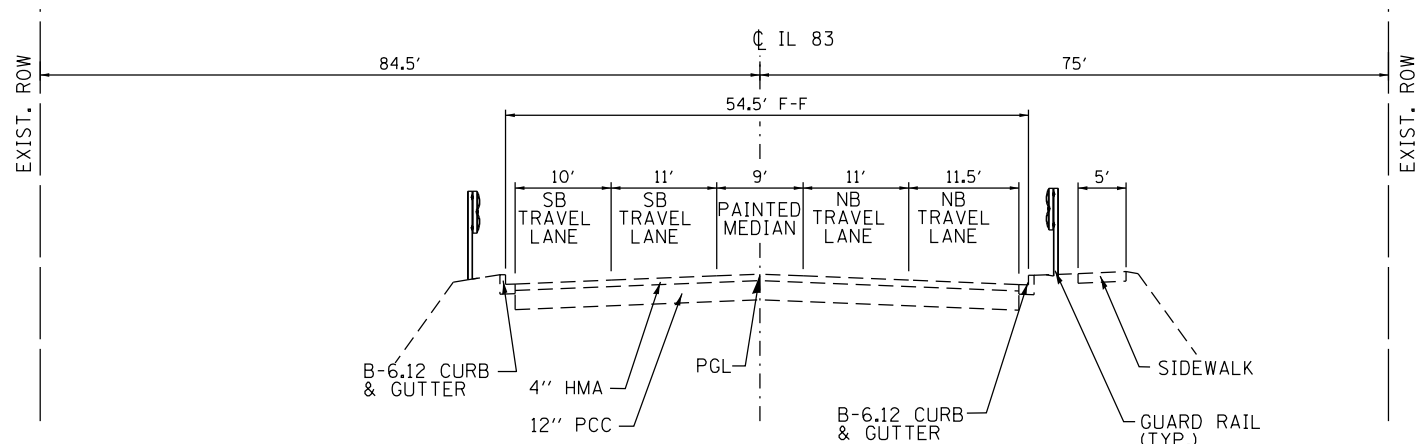
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				0003	0010	0021		
				80% FED 20% STATE	80% FED 20% STATE	Ring Rd & IL 83 80% FED 20% STATE	Exchange Ave & IL 83 80% FED 20% STATE	Interconnect 80% FED 20% STATE
* X7800450	POLYUREA PAVEMENT MARKING TYPE 1 - CURB	FOOT	553	553				
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,140					1,140
* X8760055	PEDESTRIAN PUSH BUTTON POST, TYPE A	EACH	2				2	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	456	456				
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	144		144			
Z0018004	DRAINAGE SCUPPERS, DS-12	EACH	8		8			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52				
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2			1	1	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	300		300			
Z0062456	TEMPORARY PAVEMENT	SQ YD	389	389				
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2			1	1	
Ø Z0076600	TRAINEES	Hour	1500	1500				
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	Hour	1500	1500				

* DENOTES SPECIALTY ITEM

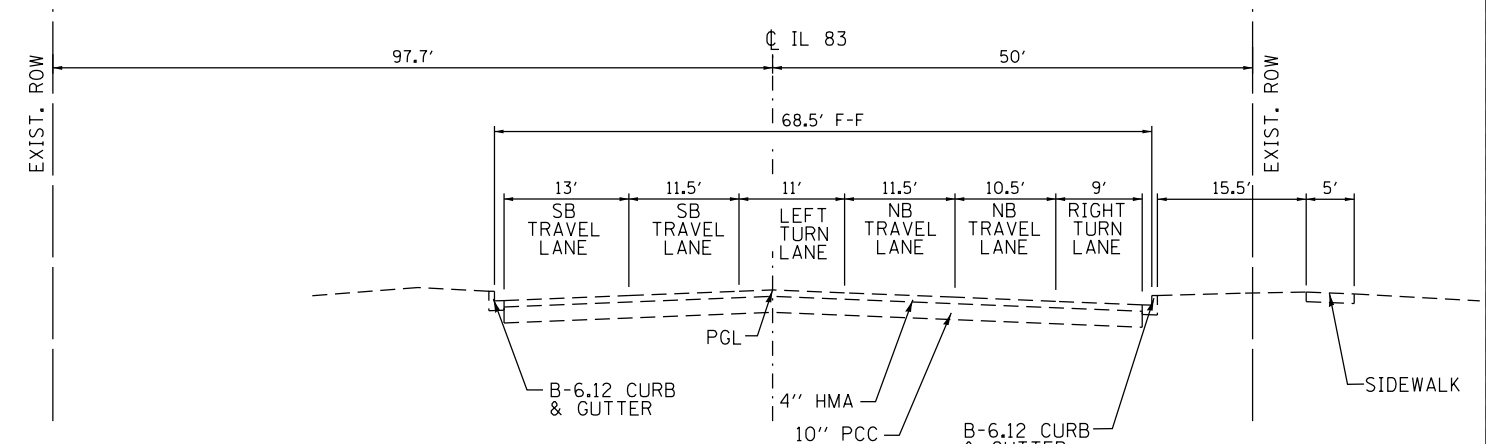
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 6501 N. Higgins Road Suite 200 Chicago, Illinois 60631 (773) 399-0112	USER NAME = 1988 DESIGNED - JWB DRAWN - JWB CHECKED - RS PLOT DATE = 1/29/2018 - 3:32:38 PM	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER SUMMARY OF QUANTITIES	SHEET NO. 500-10 OF 10	F.A.P RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 14
	ILLINOIS FED. AID PROJECT CONTRACT NO. 60K78									



EXISTING TYPICAL SECTION SOUTH OF BRIDGE
STA. 170+76 TO STA. 174+69



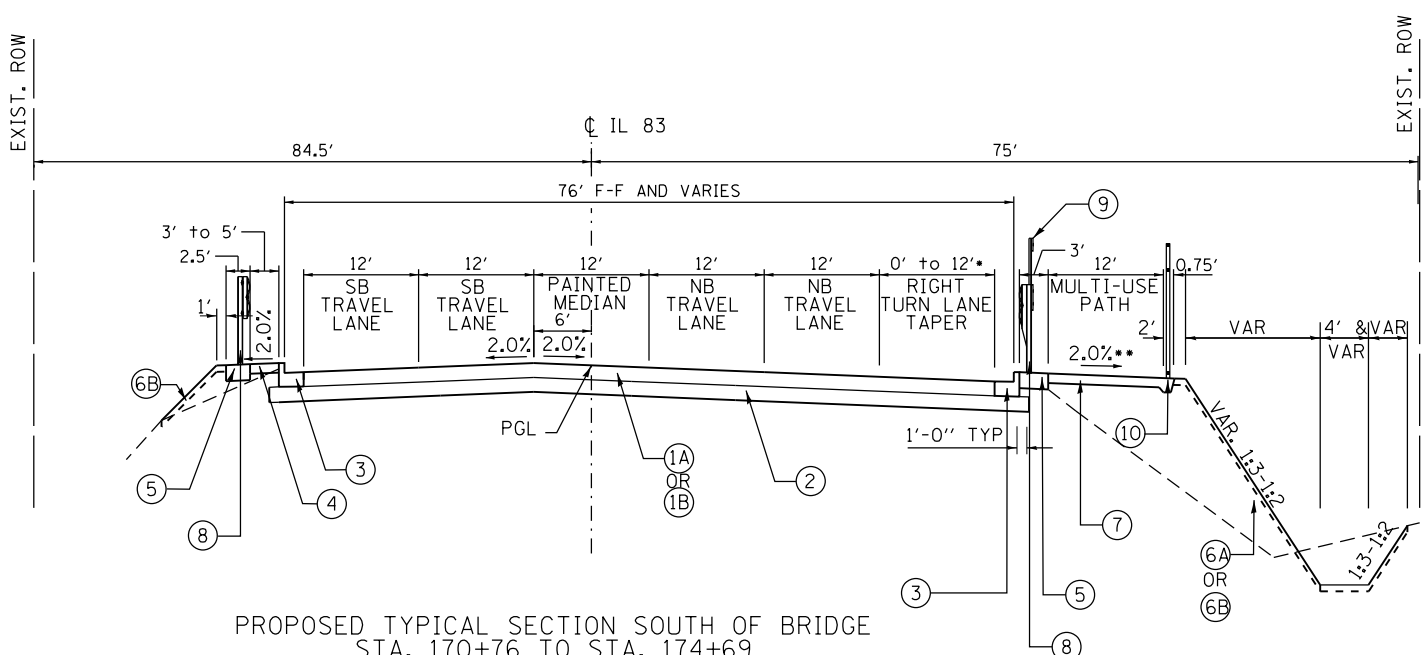
EXISTING TYPICAL SECTION NORTH OF BRIDGE
STA. 177+43 TO STA. 179+30

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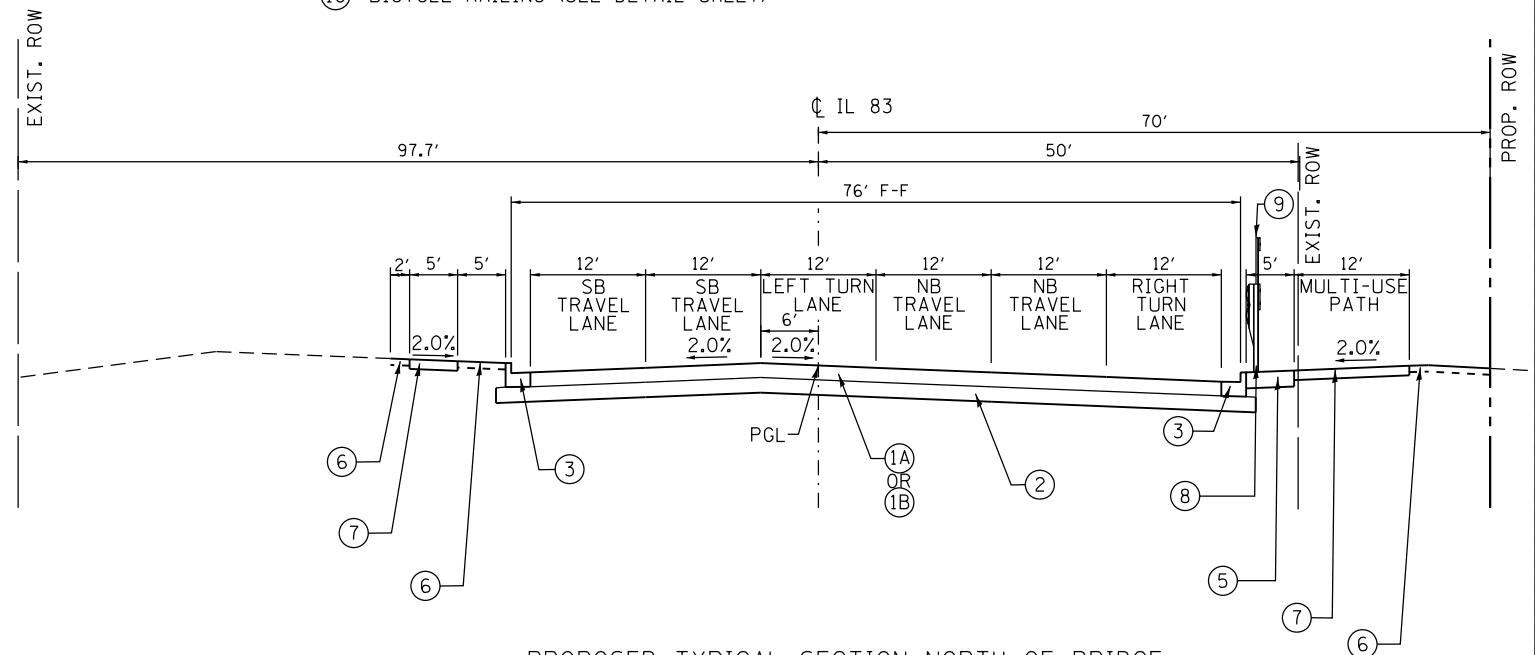
- EXISTING PCC ISLAND AT THE SOUTHEAST CORNER OF THE INTERSECTION OF RING ROAD AND IL 83 (APPROX. STA 179+50, 42' RT) WILL BE REMOVED AND REPLACED WITH:
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 3/4"
HOT MIX ASPHALT BASE COURSE, 10 1/4"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- DISTRICT 1 STANDARD PRACTICE IS TO EXTEND AGGREGATE SUBGRADE IMPROVEMENT ONE FOOT BEYOND BACK OF CURB.

PROPOSED LEGEND

- ①A PCC PAVEMENT, 9" (JOINTED) STA. 170+76 TO 173+69 & STA. 178+73 TO 179+30
- ①B (9") BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) STA. 173+69 TO 174+69 & STA. 177+73 TO 178+73
- ② AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
- ④ HOT MIX ASPHALT SHOULDER, 6"
- ⑤ AGGREGATE SHOULDERS, TYPE B, 10"
- ⑥ TOPSOIL PLACEMENT, 4" WITH SODDING, SALT TOLERANT
- ⑥A TOPSOIL PLACEMENT, 4" WITH SEEDING CLASS 2A & TURF REINFORCEMENT MAT
- ⑥B TOPSOIL PLACEMENT, 4" WITH SEEDING CLASS 4 (MODIFIED) AND EROSION CONTROL BLANKET
- ⑦ PCC SIDEWALK, 6"
- ⑧ STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS & TRAFFIC BARRIER TERMINALS
- ⑨ BIKE RAILING, SPECIAL (SEE DETAIL SHEET)
- ⑩ BICYCLE RAILING (SEE DETAIL SHEET)



PROPOSED TYPICAL SECTION SOUTH OF BRIDGE
STA. 170+76 TO STA. 174+69
* WIDENS FROM 0' AT STA. 172+95 TO 12' AT STA. 174+95
** TRANSITION MULTI-USE PATH CROSS SLOPE FROM -2.0% TO +2.0% STA. 174+05 TO STA. 174+69



PROPOSED TYPICAL SECTION NORTH OF BRIDGE
STA. 177+43 TO STA. 179+30

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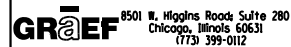
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER		
TYPICAL SECTIONS		
SCALE: N.T.S.	SHEET TYP-1 OF 1	STA. 168+50 TO STA. 183+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	15
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

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USER NAME = 1908	DESIGNED - JWB	REVISED -
	DRAWN - JWB	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - RS	REVISED -
PLOT DATE = 1/26/2018 4:08:37 PM	DATE - 01/23/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
 TREE REMOVAL AND MAINTENANCE SCHEDULE**

SHEET NO. 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	16
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

STATION	OFFSET	SIZE-DIA. INCHES (SURVEY)	TYPE	ACTION	20100110	
					TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
166+82.5	RT	67.6	TREE	NONE	0	
168+08.5	RT	63.0	TREE	NONE	0	
168+73.9	RT	61.1	TREE	NONE	0	
170+08.4	RT	232.8	TREE	NONE	0	
170+61.8	RT	208.2	TREE	NONE	0	
170+64.6	LT	72.0	8	TREE	NONE	0
170+70.2	LT	64.1	9	TREE	NONE	0
170+70.3	RT	206.6	BUSH	NONE	0	
170+70.4	RT	214.7	BUSH	NONE	0	
170+70.4	RT	198.8	BUSH	NONE	0	
170+70.5	RT	191.9	BUSH	NONE	0	
170+70.9	RT	223.5	BUSH	NONE	0	
170+76.6	LT	74.7	6	TREE	NONE	0
170+85.0	LT	57.7	4	TREE	NONE	0
170+96.2	LT	57.8	4	TREE	NONE	0
171+00.8	LT	55.6	4	TREE	NONE	0
171+01.7	LT	69.1	10	TREE	NONE	0
171+08.3	LT	59.6	4	TREE	NONE	0
171+23.7	LT	69.1	4	TREE	NONE	0
171+27.3	LT	75.9	4	TREE	NONE	0
171+29.7	LT	47.4	8	TREE	REMOVE	8
171+31.8	LT	41.8	7	TREE	REMOVE	7
171+35.8	LT	46.5	7	TREE	REMOVE	7
171+35.9	LT	66.8	8	TREE	REMOVE	8
171+36.6	LT	52.6	4	TREE	NONE	0
171+44.0	LT	61.6	4	TREE	NONE	0
171+45.0	LT	71.2	4	TREE	NONE	0
171+46.7	LT	57.3	4	TREE	NONE	0
171+51.2	LT	65.0	9	TREE	NONE	0
171+65.2	LT	68.6	4	TREE	NONE	0
171+76.5	LT	72.3	4	TREE	NONE	0
171+89.1	LT	75.1	4	TREE	NONE	0
171+90.1	LT	64.2	6	TREE	NONE	0
171+94.0	LT	49.2	12	TREE	REMOVE	12
172+02.2	LT	61.2	10	TREE	NONE	0
172+02.5	LT	63.7	7	TREE	NONE	0
172+02.6	LT	65.5	7	TREE	NONE	0
172+06.0	LT	52.7	4	TREE	NONE	0
172+14.8	LT	67.6	4	TREE	NONE	0
172+19.0	LT	66.9	4	TREE	NONE	0
172+22.2	LT	64.8	7	TREE	NONE	0
172+31.6	LT	50.2	8	TREE	REMOVE	8
172+38.4	LT	74.2	4	TREE	NONE	0
172+42.5	LT	50.5	7	TREE	REMOVE	7
172+45.5	LT	55.1	4	TREE	NONE	0

STATION	OFFSET	SIZE-DIA. INCHES (SURVEY)	TYPE	ACTION	20100110	
					TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
172+47.6	LT	65.3	24	TREE	NONE	0
172+50.9	LT	70.5	4	TREE	NONE	0
172+52.5	LT	50.1	4	TREE	REMOVE	0
172+53.3	LT	75.5	4	TREE	NONE	0
172+55.1	LT	70.1	4	TREE	NONE	0
172+56.9	LT	48.8	6	TREE	REMOVE	6
172+61.8	LT	47.5	6	TREE	REMOVE	6
172+62.4	LT	76.2	4	TREE	NONE	0
172+62.5	LT	77.1	4	TREE	NONE	0
172+68.4	LT	56.7	4	TREE	NONE	0
172+70.5	LT	56.4	6	TREE	NONE	0
172+97.1	LT	59.8	6	TREE	REMOVE	6
172+98.4	LT	57.1	4	TREE	REMOVE	0
173+07.3	LT	60.5	4	TREE	REMOVE	0
173+07.3	LT	61.5	4	TREE	REMOVE	0
173+14.1	LT	57.0	4	TREE	REMOVE	0
173+25.0	LT	56.7	6	TREE	REMOVE	6
173+28.0	LT	48.0	6	TREE	REMOVE	6
173+54.2	LT	57.0	4	TREE	NONE	0
173+54.2	LT	80.8	34	TREE	NONE	0
173+55.3	LT	76.0	24	TREE	NONE	0
173+75.4	LT	57.1	4	TREE	NONE	0
173+84.5	LT	69.2	4	TREE	NONE	0
174+07.0	RT	46.5	6	TREE	REMOVE	6
174+14.5	RT	65.6	4	TREE	REMOVE	0
174+22.0	RT	50.3	4	TREE	REMOVE	0
174+27.4	LT	61.2	4	TREE	REMOVE	0
174+31.5	RT	48.2	4	TREE	REMOVE	0
174+32.0	LT	61.0	6	TREE	REMOVE	6
174+39.5	RT	84.6	4	TREE	REMOVE	0
174+41.6	RT	59.1	4	TREE	REMOVE	0
174+42.3	RT	68.7	4	TREE	REMOVE	0
174+44.3	LT	59.7	4	TREE	REMOVE	0
174+45.7	LT	48.2	4	TREE	REMOVE	0
174+48.0	LT	64.0	7	TREE	REMOVE	7
174+48.2	RT	79.4	4	TREE	REMOVE	0
174+50.6	LT	72.3	4	TREE	NONE	0
174+54.0	RT	40.0	6	TREE	REMOVE	6
174+67.9	LT	75.6	4	TREE	NONE	0
174+93.4	LT	41.4	4	TREE	REMOVE	0
174+95.2	RT	44.3	4	TREE	REMOVE	0
174+96.0	LT	64.0	4	TREE	REMOVE	0
175+03.3	LT	44.4	4	TREE	REMOVE	0
175+08.3	RT	51.8	4	TREE	REMOVE	0
175+09.1	LT	78.4	4	TREE	REMOVE	0

STATION	OFFSET	SIZE-DIA. INCHES (SURVEY)	TYPE	ACTION	20100110	
					TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
175+10.0	RT	63.2	4	TREE	REMOVE	0
176+40.7	LT	84.1	4	TREE	NONE	0
176+42.8	LT	85.6	4	TREE	NONE	0
176+50.5	LT	85.3	4	TREE	NONE	0
176+61.9	LT	74.5	4	TREE	NONE	0
176+69.8	LT	67.5	4	TREE	NONE	0
176+73.0	LT	72.1	4	TREE	NONE	0
176+78.5	RT	52.9	4	TREE	REMOVE	0
176+78.9	RT	54.2	4	TREE	REMOVE	0
176+92.0	LT	62.0	6	TREE	REMOVE	6
176+98.6	RT	44.9	4	TREE	REMOVE	0
177+03.1	LT	68.6	4	TREE	REMOVE	0
177+03.9	LT	66.8	4	TREE	REMOVE	0
177+08.3	LT	65.1	4	TREE	REMOVE	0
177+08.5	RT	53.3	4	TREE	REMOVE	0
177+10.9	LT	67.4	4	TREE	REMOVE	0
177+11.9	LT	65.4	4	TREE	REMOVE	0
177+23.1	LT	60.8	4	TREE	REMOVE	0
177+26.7	RT	47.8	4	TREE	REMOVE	0
177+26.7	RT	48.7	6	TREE	REMOVE	6
177+26.9	LT	53.8	4	TREE	REMOVE	0
177+29.0	LT	54.0	7	TREE	REMOVE	7
177+29.2	RT	66.1	4	TREE	REMOVE	0
177+29.4	LT	52.4	4	TREE	REMOVE	0
177+30.4	RT	67.8	4	TREE	REMOVE	0
177+30.7	RT	49.0	4	TREE	REMOVE	0
177+32.0	LT	54.0	8	TREE	REMOVE	8
179+22.4	LT	103.0		TREE	NONE	0
179+34.1	LT	174.5		TREE	NONE	0
180+35.3	RT	121.4		TREE	NONE	0
180+38.5	RT	76.3		TREE	NONE	0
181+98.5	RT	49.3		TREE	NONE	0
182+47.5	RT	49.7		TREE	NONE	0
182+91.2	RT	49.6		TREE	NONE	0
TOTALS					139	

FROM	TO	20200100						20400800					
		EARTH EXCAVATION			EXCAVATION AVAILABLE TO BE USED IN EMBANKMENT, ADJUSTED FOR SHRINKAGE (SHRINKAGE FACTOR = 15%)			EMBANKMENT			FURNISHED EXCAVATION		
		STAGE 1	STAGE 1A	STAGE 2	STAGE 1	STAGE 1A	STAGE 2	STAGE 1	STAGE 1A	STAGE 2	STAGE 1	STAGE 1A	STAGE 2
STATION	STATION	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
170+50	171+00	50	23	38	43	20	32	11	0	8			
171+00	171+50	100	46	82	85	39	70	51	0	14			
171+50	172+00	103	46	91	87	39	77	120	0	22			
172+00	172+50	121	46	97	103	39	83	144	0	44			
172+50	172+77	82	25	55	70	21	47	64	0	38			
172+77	173+00	73	21	45	62	18	38	63	0	59			
173+00	173+50	146	44	88	124	37	75	141	0	103			
173+50	174+00	118	34	71	100	29	61	278	0	51			
174+00	174+50	80	22	53	68	19	45	536	0	144			
174+50	174+60	18	3	9	15	3	8	122	0	46			
174+60	175+00	44	7	18	38	6	15	531	0	354			
175+00	175+50	0	0	0	0	0	0	372	0	325			
177+12	177+50	85	14	62	72	12	53	90	0	98			
177+50	177+88	141	31	107	120	26	91	11	0	59			
177+88	178+00	45	11	38	38	9	32	2	0	0			
178+00	178+50	209	47	118	178	40	100	5	0	19			
178+50	179+00	218	49	116	185	42	98	2	0	31			
179+00	179+50	106	25	61	91	21	52	1	0	13			
179+50		0	0	0	0	0	0	0	0	0			
TOTALS		1,739	496	1,148	1,478	421	976	2,543	0	1,428	1065	0	452

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
EARTHWORK SCHEDULE**

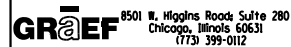
SHEET NO. 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	17
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

LOCATION			30300112	40603340	42000401	42001420	42300200	42400300	42400800	48101620	48203029	42001300
LOCATION			AGGREGATE SUBGRADE IMPROVEMENT, 12"	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED)	BRIDGE APPROACH PAVEMENT CONNCECTOR (PCC)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	DETECTABLE WARNINGS	AGGREGATE SHOULDERS, TYPE B, 10"	HOT-MIX ASPHALT SHOULDERS, 8"	PROTECTIVE COAT
LOCATION			(SQ YD)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ FT)	(SQ FT)	(SQ YD)	(SQ YD)	(SQ YD)
STATION	TO	STATION										
170+61		174+99	2995	10	1906	755	0	4535	10	336	259	3402
177+13		179+45	1949	17	737	803	44	3245	20	310	0	2295
TOTALS			4944	28	2644	1559	44	7780	30	646	259	5697

LOCATION			42001300	60603800	60605000	60623800	63000001	63100045	63100085	63100085	X5091725							
LOCATION			PROTECTIVE COAT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	CONCRETE BARRIER MEDIAN	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	BICYCLE RAILING, SPECIAL							
LOCATION			(SQ YD)	(FT)	(FT)	(SQ FT)	(FT)	(EACH)	(EACH)	(EACH)	(FT)							
STATION	TO	STATION		LT	RT	LT	RT	LT	RT	LT	RT	LT	RT					
170+61		174+99	3402	0	26	419	390	0	738	25	0	0	1	1	0	1	0	279
177+13		179+45	2295	21	29	184	176	2140	238	113	1	1	1	1	0	0	0	156
TOTALS			5697	76		1169		2140	1114		2		4		1		435	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
ROADWAY SCHEDULE**

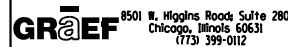
SHEET NO. 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	18
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

LOCATION			40600982	44000100	44000156	44000200	44000500	44000600	44003100	63200310	Z0004552		
LOCATION			HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	DRIVEWAY PAVEMENT REMOVAL	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	MEDIAN REMOVAL	GUARDRAIL REMOVAL	APPROACH SLAB REMOVAL		
LOCATION			(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(FT)	(SQ FT)	(SQ FT)	(FT)	(SQ YD)		
STATION	TO	STATION					LT	RT		LT	RT		
170+61		174+99	34	2683	72	0	476	438	2235	0	817	78	228
177+13		179+45	49	1511	120	73	261	263	1372	2327	432	39	228
TOTALS			83	4194	192	73	1438		3607	2327	1366		456

LOCATION						55100400	55100500	55100700	60251740	60261540	60500040	60500050	60500060
LOCATION						STORM SEWER REMOVAL 10"	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 15"	CATCH BASINS TO BE ADJUSTED NEW T24 F&G	INLETS TO BE ADJUSTED NEW T24 F&G	REMOVING MANHOLES	REMOVING CATCH BASINS	REMOVING INLETS
LOCATION						(FT)	(FT)	(FT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
STATION	OFFSET	LT/RT	STATION	OFFSET	LT/RT								
169+92	28.0	LT	169+90	72.0	LT			44					
170+91	27.2	LT							1				
170+93	26.6	RT							1				
172+79	35.1	LT	171+77	37.7	LT			99					
172+79	35.1	LT								1			
172+91	27.2	LT	172+79	35.1	LT			15					
172+91	27.2	LT									1		
172+93	27	RT	172+91	27.2	LT	53							
172+93	27	RT										1	
174+91	27.5	LT	172+79	35.1	LT			207					
174+91	27.5	LT									1		
174+92	26.7	RT	174+91	27.5	LT	53							
174+92	26.7	RT											1
177+91	27.1	LT	177+60	53.5	LT			40					
177+91	27.1	LT									1		
177+96	37.9	RT	177+91	27.1	LT	64							
177+96	37.9	RT											1
TOTALS						170	262	143	1	1	1	3	3

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
ROADWAY REMOVAL AND SEWER REMOVAL SCHEDULES**

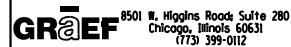
SHEET NO. 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	19
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

LOCATION			78000200	78000400	78000600	78000650	78000100	78008310	78008330	78008350	78008370	78008300
			THERMO PAVEMENT MARKING - LINE 4"	THERMO PAVEMENT MARKING - LINE 6"	THERMO PAVEMENT MARKING - LINE 12"	THERMO PAVEMENT MARKING - LINE 24"	THERMO PAVEMENT MARKING - LETTERS AND SYMBOLS	POLYUREA PAVEMENT MARKING - LINE 4"	POLYUREA PAVEMENT MARKING - LINE 6"	POLYUREA PAVEMENT MARKING - LINE 12"	POLYUREA PAVEMENT MARKING - LINE 24"	POLYUREA PAVEMENT MARKING - LETTERS AND SYMBOLS
STATION	TO	STATION	(FT)	(FT)	(FT)	(FT)	(SQ FT)	(FT)	(FT)	(FT)	(FT)	(SQ FT)
160+00		190+00	1,510	914	103	155	146	3,644	873	75	84	182
TOTALS			1,510	914	103	155	146	3,644	873	75	84	182

LOCATION			78100100			X0327979	78300200	X7800450
			RAISED REFLECTIVE PAVEMENT MARKER			PAVEMENT MARKING REMOVAL -GRINDING	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	POLYUREA PAVEMENT MARKING TYPE 1 - CURB
			ONE-WAY AMBER	ONE-WAY CRYSTAL	TWO-WAY AMBER			
STATION	TO	STATION	(EACH)	(EACH)	(EACH)	(SQ FT)	(EACH)	(FT)
160+00		190+00	22	32	17	2,428	87	553
TOTALS			22	32	17	2,428	87	553

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PLOT DATE = 3/14/2018 8:43:41 AM	DATE - 01/23/2018	REVISED - 03/13/2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
PAVEMENT MARKING SCHEDULES

SHEET NO. 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	20
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

LOCATION			70300100	70300210			70300220			70300240			70300260			70300280			X0327979
			SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS			TEMPORARY PAVEMENT MARKING - LINE 4"			TEMPORARY PAVEMENT MARKING - LINE 6"			TEMPORARY PAVEMENT MARKING - LINE 12"			TEMPORARY PAVEMENT MARKING - LINE 24"			PAVEMENT MARKING REMOVAL -GRINDING
STATION	TO	STATION	(FT)	STAGE 1 (SQ FT)	STAGE 1A (SQ FT)	STAGE 2 (SQ FT)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	(SQ FT)
160+00		190+00	1,885	218	182	363	6,057	2,172	6,008	509	901	1,141	50	0	0	176	40	86	7,399
TOTALS			1,885	218	182	363	6,057	2,172	6,008	509	901	1,141	50	0	0	176	40	86	7,399

LOCATION			70400100			70400200			70600240			70600340			Z0062456		
			TEMPORARY CONCRETE BARRIER			RELOCATE TEMPORARY CONCRETE BARRIER			IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2			IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2			TEMPORARY PAVEMENT		
STATION	TO	STATION	(FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (EA)	STAGE 1A (EA)	STAGE 2 (EA)	STAGE 1 (FT)	STAGE 1A (FT)	STAGE 2 (FT)	STAGE 1 (SQ YD)	STAGE 1A (SQ YD)	STAGE 2 (SQ YD)
160+00		190+00	368	368	0	0	313	434	2	0	0	0	2	2	229	0	160
TOTALS			368	368	0	0	313	434	2	0	0	0	2	2	229	0	160

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
MAINTENANCE OF TRAFFIC SCHEDULES

SHEET NO. 1 OF 1

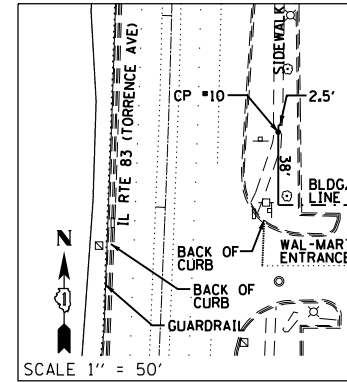
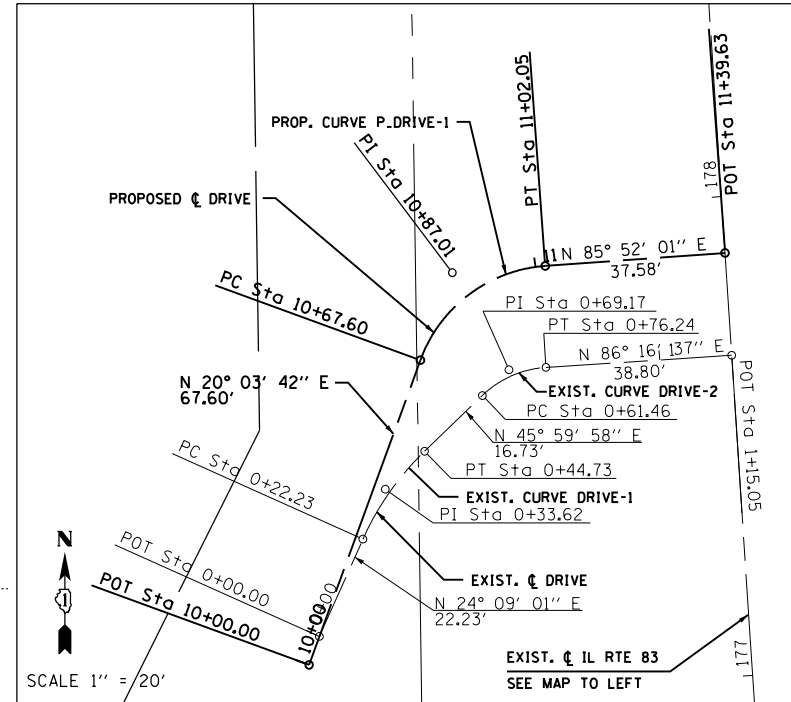
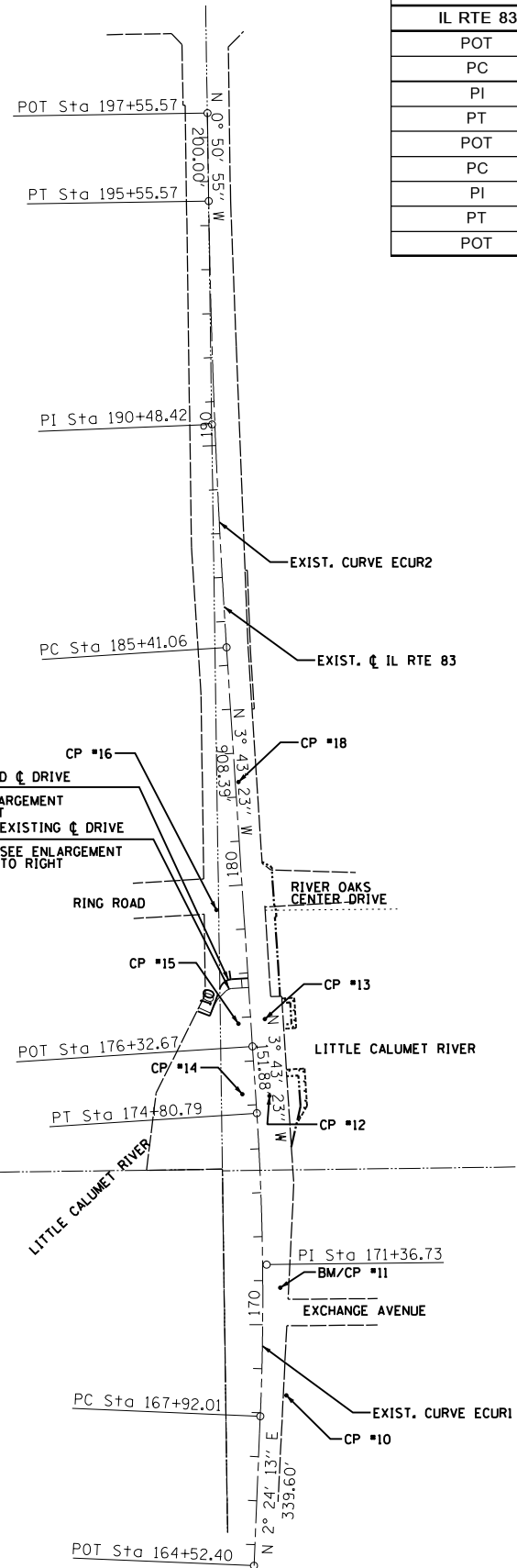
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	21
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ALIGNMENT COORDINATES - IL RTE 83 / US RTE 6 / TORRENCE AVENUE			
IL RTE 83	STATION	N	E
POT	164+52.40	1,794,609.88	1,196,144.06
PC	167+92.01	1,794,949.19	1,196,158.30
PI	171+36.73	1,795,293.61	1,196,172.76
PT	174+80.79	1,795,637.60	1,196,150.38
POT	176+32.67	1,795,789.16	1,196,140.51
PC	185+14.06	1,796,695.63	1,196,081.53
PI	190+48.42	1,797,201.92	1,196,048.59
PT	195+55.57	1,797,709.23	1,196,041.07
POT	197+55.57	1,797,909.20	1,196,038.11

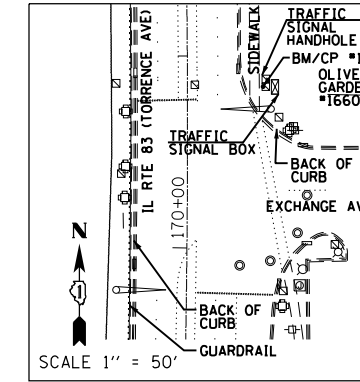
ALIGNMENT COORDINATES - EXISTING DRIVE			
EXIST. DRIVE	STATION	N	E
POT	0+00.00	1,795,864.48	1,196,045.86
PC	0+22.23	1,795,884.77	1,196,054.95
PI	0+33.62	1,795,895.16	1,196,059.61
PT	0+44.73	1,795,903.07	1,196,067.80
PC	0+61.46	1,795,914.69	1,196,079.83
PI	0+69.17	1,795,920.05	1,196,085.38
PT	0+76.24	1,795,920.55	1,196,093.08
POT	1+15.05	1,795,923.07	1,196,131.80

ALIGNMENT COORDINATES - PROPOSED DRIVE			
PROP. DRIVE	STATION	N	E
POT	10+00.00	1,795,858.56	1,196,043.73
PC	10+67.60	1,795,922.05	1,196,066.92
PI	10+87.01	1,795,940.28	1,196,073.57
PT	11+02.05	1,795,941.68	1,196,092.93
POT	11+39.63	1,795,944.39	1,196,130.41

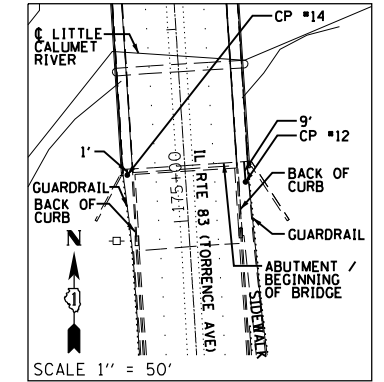
<p>EXIST. CURVE ECUR1 PI STA. = 171+36.73 $\Delta = 6^\circ 07' 35''$ (LT) $D = 0^\circ 53' 22''$ $R = 6,441.63'$ $T = 344.72'$ $L = 688.78'$ $E = 9.22'$ $e =$ NORMAL CROWN T.R. = N/A S.E. RUN = N/A P.C. STA. = 167+92.01 P.T. STA. = 174+80.79 DESIGN SPEED=45 MPH POSTED SPEED=40 MPH</p>	<p>EXIST. CURVE ECUR2 PI STA. = 190+48.42 $\Delta = 2^\circ 52' 28''$ (RT) $D = 0^\circ 17' 00''$ $R = 20,221.99'$ $T = 507.36'$ $L = 1,014.51'$ $E = 6.36'$ $e =$ NORMAL CROWN T.R. = N/A S.E. RUN = N/A P.C. STA. = 185+41.06 P.T. STA. = 195+55.57 DESIGN SPEED=45 MPH POSTED SPEED=40 MPH</p>	<p>EXIST. CURVE DRIVE-1 PI STA. = 0+33.62 $\Delta = 21^\circ 50' 57''$ (RT) $D = 97^\circ 06' 11''$ $R = 59.01'$ $T = 11.39'$ $L = 22.50'$ $E = 1.09'$ $e =$ NORMAL CROWN T.R. = N/A S.E. RUN = N/A P.C. STA. = 0+22.23 P.T. STA. = 0+44.73</p>	<p>EXIST. CURVE DRIVE-2 PI STA. = 0+69.17 $\Delta = 40^\circ 16' 39''$ (RT) $D = 272^\circ 22' 18''$ $R = 21.04'$ $T = 7.71'$ $L = 14.79'$ $E = 1.37'$ $e =$ NORMAL CROWN T.R. = N/A S.E. RUN = N/A P.C. STA. = 0+61.46 P.T. STA. = 0+76.24</p>	<p>PROP. CURVE P-DRIVE-1 PI STA. = 10+87.01 $\Delta = 65^\circ 48' 19''$ (RT) $D = 190^\circ 59' 09''$ $R = 30.00'$ $T = 19.41'$ $L = 34.46'$ $E = 5.73'$ $e =$ NORMAL CROWN T.R. = N/A S.E. RUN = N/A P.C. STA. = 10+67.60 P.T. STA. = 11+02.05</p>
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CONTROL POINT #10
 ELEV. 599.35
 SET CUT CROSS ON SIDEWALK
 STATION 168+41.23, 57.34' RT
 N 1,794,996.41
 E 1,196,217.49

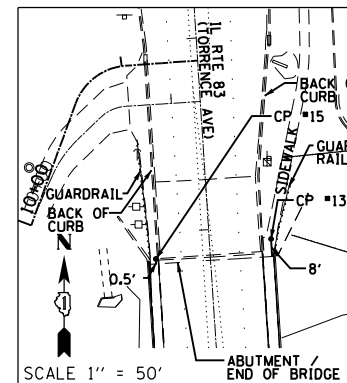


BENCHMARK / CONTROL POINT #11
 ELEV. 597.92
 SET CROSS ON TRAFFIC SIGNAL HANDHOLE
 STATION 170+83.92, 39.46' RT
 N 1,795,677.02
 E 1,196,203.39



CONTROL POINT #12
 ELEV. 601.13
 SET CUT CROSS ON SIDEWALK
 STATION 175+18.27, 31.06' RT
 N 1,795,677.02
 E 1,196,178.94

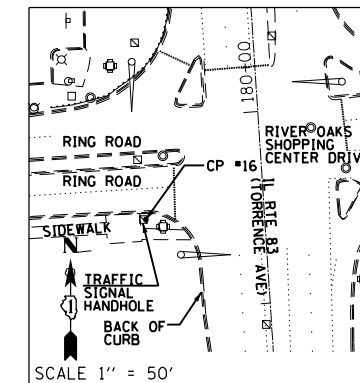
CONTROL POINT #14
 ELEV. 601.13
 SET CUT CROSS ON SIDEWALK
 STATION 175+25.85, 30.17' LT
 N 1,795,680.61
 E 1,196,117.35



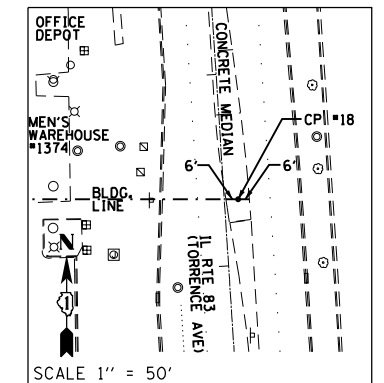
CONTROL POINT #13
 ELEV. 601.52
 SET CUT CROSS ON SIDEWALK
 STATION 176+93.01, 32.17' RT
 N 1,795,851.47
 E 1,196,168.70



CONTROL POINT #15
 ELEV. 601.55
 SET CUT CROSS ON SIDEWALK
 STATION 176+86.44, 28.38' LT
 N 1,795,840.98
 E 1,196,108.70

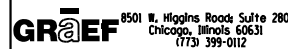


CONTROL POINT #16
 ELEV. 598.64
 SET CROSS ON TRAFFIC SIGNAL HANDHOLE
 STATION 179+47.61, 61.81' LT
 N 1,796,099.42
 E 1,196,058.38



CONTROL POINT #18
 ELEV. 598.96
 SET CROSS ON CONCRETE MEDIAN
 STATION 182+34.33, 7.18' RT
 N 1,796,390.01
 E 1,196,108.61

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DRAWN - JWB	REVISOR -	REVISION -
CHECKED - RS	REVISOR -	REVISION -
DATE - 01/23/2018	REVISOR -	REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
 ALIGNMENTS, TIES, AND BENCHMARKS

SCALE: 1"=200' SHEET NO. ATB-1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	22
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

WOUS IMPACTS LEGEND

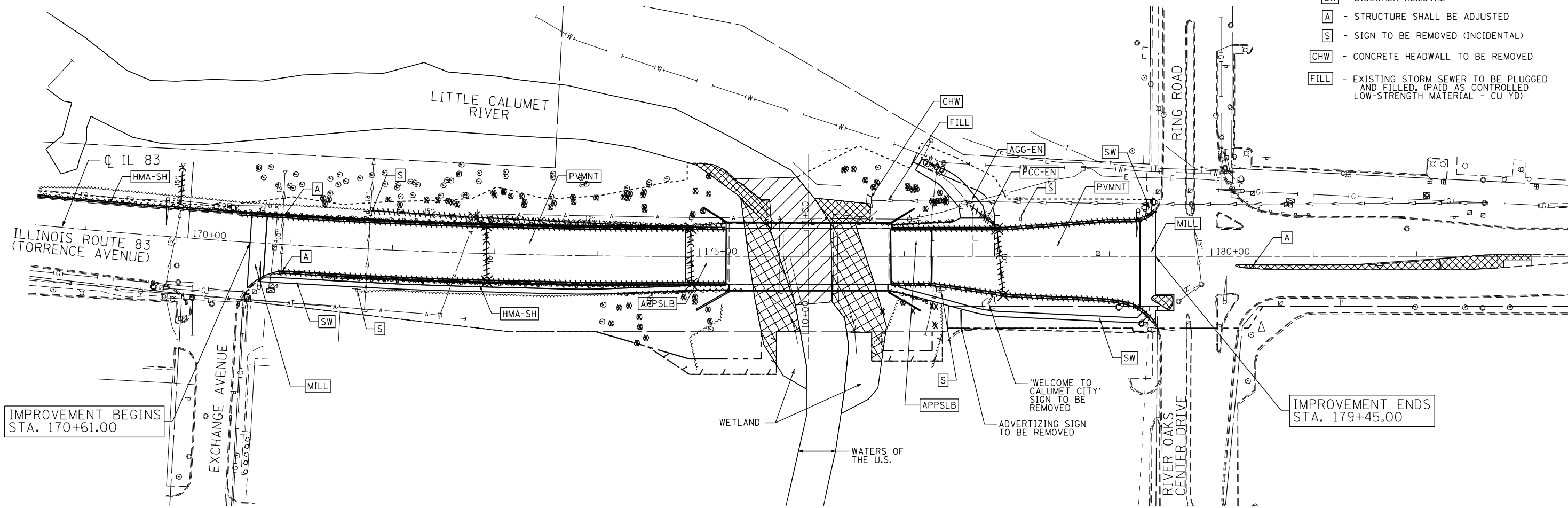
WETLANDS IMPACTS LEGEND

- TEMPORARY 0.14 AC.
- PERMANENT 0.04 AC.

- PERMANENT 0.18 AC.

REMOVAL LEGEND

- GUARDRAIL REMOVAL
- STORM SEWER/CULVERT REMOVAL
- CURB REMOVAL
- ITEM REMOVAL
- MEDIAN REMOVAL
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- AGGREGATE ENTRANCE REMOVAL
- P.C.C. ENTRANCE REMOVAL
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- SIDEWALK REMOVAL
- STRUCTURE SHALL BE ADJUSTED
- SIGN TO BE REMOVED (INCIDENTAL)
- CONCRETE HEADWALL TO BE REMOVED
- EXISTING STORM SEWER TO BE PLUGGED AND FILLED. (PAID AS CONTROLLED LOW-STRENGTH MATERIAL - CU YD)

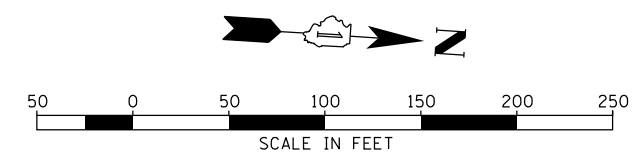


IMPROVEMENT BEGINS STA. 170+61.00

IMPROVEMENT ENDS STA. 179+45.00

'WELCOME TO CALUMET CITY' SIGN TO BE REMOVED
ADVERTIZING SIGN TO BE REMOVED

NOTE: A FIBER OPRIC HANDHOLE AT THE SOUTHWEST CORNER OF ILLINOIS ROUTE 83 AND RING ROAD WAS CONSTRUCTED AFTER THE S.U.E. SURVEY INCLUDED IN THE PLANS. AN UNDERGROUND LOCATE FOR FIBER OPTIC UTILITIES MUST BE COMPLETED PRIOR TO CONSTRUCTION WORK AND DOCUMENTED PER THE SPECIFICATIONS.



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GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1908	DESIGNED - JWB	REVISED -
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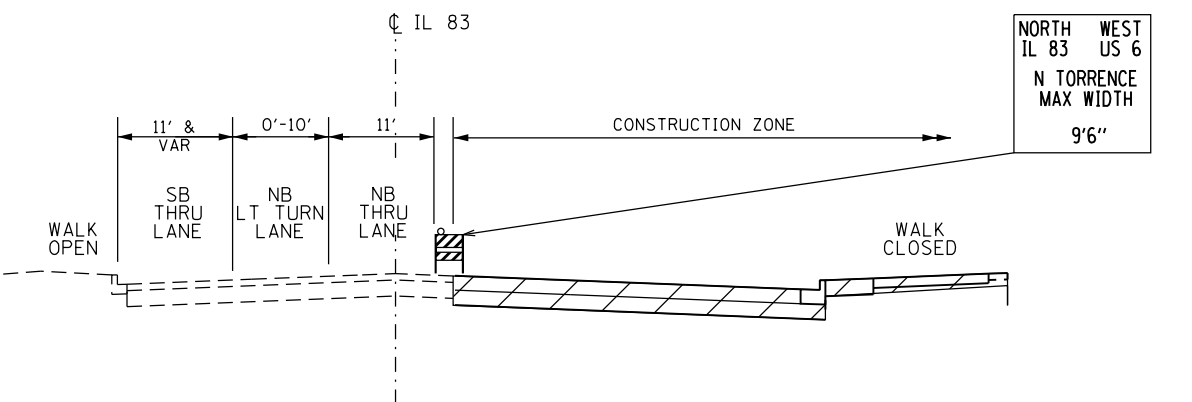
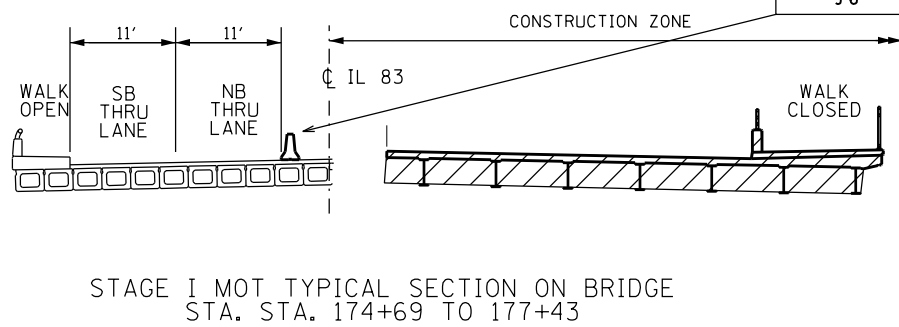
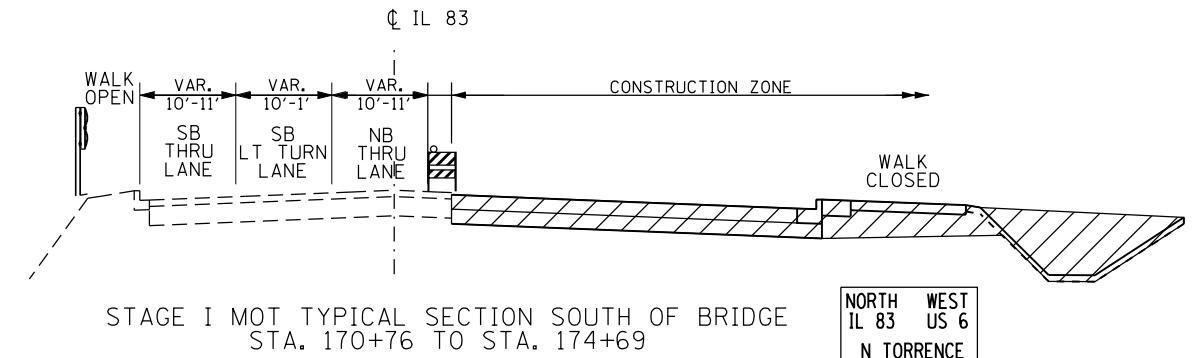
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
REMOVAL PLAN**
SCALE: 1" = 50' SHEET NO. REM-1 OF 1 STA. 168+50 TO STA. 183+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	23
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC AND EROSION & SEDIMENT CONTROL SEQUENCING

CONSTRUCTION	MAINTENANCE OF TRAFFIC	EROSION & SEDIMENT CONTROL
PRE-STAGE		
CONSTRUCT BRIDGE CONE EMBANKMENTS. PROVIDE WINTER SETTLEMENT PERIOD	HIGHWAY STANDARDS 701101 & 701106.	INSTALL PERIMETER EROSION BARRIER AROUND EMBANKMENT AREA AND SITE ACCESS.
INSTALL TEMPORARY TRAFFIC SIGNALS AT IL 83 AND EXCHANGE AVE AND AT IL 83 AND RING ROAD FOR STAGE 1 MOT	HIGHWAY STANDARDS 701701, 701601, & 701602.	NONE
INSTALL STORM SEWER OUTFALL AND LATERAL AT STATION 177+57 TO STAGE 1 CONSTRUCTION LINE. PATCH PAVEMENT CROSSING.	HIGHWAY STANDARDS 701427.	INSTALL INLET FILTERS AS STRUCTURES ARE CONSTRUCTED.
		PLACE TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY EROSION CONTROL BLANKET PER STANDARD SPECIFICATIONS
STAGE 1		
REMOVE CONCRETE MEDIAN NORTH OF RING ROAD AND CONSTRUCT TEMPORARY PAVEMENT.	HIGHWAY STANDARD 701601, 701606, & 701701.	NONE
STAGE 1 TRAFFIC CONTROL SETUP	HIGHWAY STANDARD 701606, 701701 AND D-1 TC 14	NONE
CONSTRUCT EAST SIDE EMBANKMENT	TEMPORARILY SHIFT TRAFFIC TO NORTHBOUND LANES. INSTALL STAGE 1 PAVEMENT MARKING AND TEMPORARY CONCRETE BARRIER. SHIFT TRAFFIC TO STAGE 1 CONFIGURATION.	INSTALL PERIMETER EROSION BARRIER AROUND STAGE 1 CONSTRUCTION SITE. PLACE TEMPORARY DITCH CHECKS AS PROGRESS ALLOWS. PLACE TEMPORARY EROSION CONTROL SEEDING PER STANDARD SPECIFICATIONS. MAINTAIN EROSION CONTROL DEVICES INSTALLED IN PRE-STAGE
REMOVE NORTHBOUND LANES AND EAST HALF OF BRIDGE INCLUDING SIDEWALKS.	TRAFFIC IN STAGE 1 CONFIGURATION.	
CONSTRUCT STAGE 1 (NORTHBOUND) PORTION OF BRIDGE AND PAVEMENT INCLUDING SHARED USE PATH.	TRAFFIC IN STAGE 1 CONFIGURATION.	
COMPLETE STORM SEWER CROSSING AT STA. 178+80. INSTALL STORM SEWER MAINS AND LATERALS AT STA. 172+20, AT 174+05 AND AT 177+80 TO STAGE 1 CONSTRUCTION LINE	TRAFFIC IN STAGE 1 CONFIGURATION.	INSTALL INLET FILTERS AND TEMPORARY DITCH CHECKS AS STRUCTURES ARE CONSTRUCTED.
PLACE PERMANENT LANDSCAPING IMPROVEMENTS ON THE EAST SIDE OF THE IMPROVEMENT.	TRAFFIC IN STAGE 1 CONFIGURATION.	
STAGE 1A		
STAGE 1A TRAFFIC CONTROL SETUP		
REMOVE AND CONSTRUCT CENTER PAVEMENT NORTH AND SOUTH OF BRIDGE.	SHIFT TRAFFIC NORTHBOUND TRAFFIC ONTO COMPLETED LANES. INSTALL STAGE 1A PAVEMENT MARKING AND TEMPORARY CONCRETE BARRIER. RELOCATE TRAFFIC SIGNAL HEADS TO STAGE 1A LOCATIONS. SHIFT TRAFFIC TO STAGE 1A CONFIGURATION.	MAINTAIN EROSION CONTROL DEVICES INSTALLED IN PRE-STAGE AND STAGE 1.
EXTEND STORM SEWER LATERALS AT STA. 172+20, AT 174+05 AND AT 177+80 TO STAGE 1A CONSTRUCTION LINE	TRAFFIC IN STAGE 1A CONFIGURATION.	NONE
STAGE 2		
STAGE 2 TRAFFIC CONTROL SETUP	INSTALL STAGE 2 PAVEMENT MARKING AND TEMPORARY CONCRETE BARRIER. RELOCATE TRAFFIC SIGNAL HEADS TO STAGE 2 LOCATIONS. SHIFT SOUTHBOUND TRAFFIC TO STAGE 2 CONFIGURATION.	INSTALL PERIMETER EROSION BARRIER AROUND STAGE 2 CONSTRUCTION SITE. PLACE TEMPORARY EROSION CONTROL SEEDING PER STANDARD SPECIFICATIONS. MAINTAIN EROSION CONTROL DEVICES INSTALLED IN PRE-STAGE AND STAGE 1.
CONSTRUCT WEST SIDE EMBANKMENT	TRAFFIC IN STAGE 2 CONFIGURATION.	
REMOVE NORTHBOUND LANES AND EAST HALF OF BRIDGE	TRAFFIC IN STAGE 2 CONFIGURATION.	
CONSTRUCT STAGE 2 (SOUTHBOUND) PORTION OF BRIDGE AND PAVEMENT INCLUDING SIDEWALK.	TRAFFIC IN STAGE 2 CONFIGURATION.	
COMPLETE STORM SEWER LATERALS AT STA. 172+20, AT 174+05, AT 177+80 AND AT 178+90.	TRAFFIC IN STAGE 2 CONFIGURATION.	INSTALL INLET FILTERS AND TEMPORARY DITCH CHECKS AS STRUCTURES ARE CONSTRUCTED.
PLACE PERMANENT LANDSCAPING IMPROVEMENTS ON THE EAST SIDE OF THE IMPROVEMENT.	TRAFFIC IN STAGE 2 CONFIGURATION.	
REMOVE TEMPORARY PAVEMENT AND CONSTRUCT MEDIAN NORTH OF RING ROAD.	HIGHWAY STANDARD 701606	
PLACE PERMANENT TRAFFIC SIGNALS. REMOVE TEMPORARY SIGNALS WHEN PERMANENT SIGNALS ARE OPERATIONAL	HIGHWAY STANDARD 701606, 701701 AND D-1 TC 14	REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER SITE IS STABILIZED.



STAGE I MOT TYPICAL SECTION NORTH OF BRIDGE STA. 177+43 TO STA. 179+30

- SUGGESTED STAGING AND TRAFFIC CONTROL - GENERAL NOTES**
- ALL TRAFFIC CONTROL DEVICES USED FOR STAGING AND TRAFFIC CONTROL AND DETAILED ON THE PLANS, SHALL BE REFLECTORIZED PRIOR TO THE INSTALLATION AND CLEANED AS NECESSARY THROUGH THE DURATION OF THE CONTRACT.
 - THE CONTRACTOR SHALL REMOVE ALL PERMANENT AND TEMPORARY PAVEMENT MARKING WHICH CONFLICTS WITH STAGING OR ULTIMATE PAVEMENT MARKING.
 - THE CONTRACTOR SHALL COVER, RELOCATE, OR REMOVE ALL CONFLICTING EXISTING SIGNS.
 - IN LOCATIONS WHERE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS CONFLICT WITH THE REQUIRED TEMPORARY PAVEMENT MARKINGS, THE REFLECTORS IN THE EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED.
 - CONSTRUCTION SIGN PLACEMENT MAY BE ADJUSTED SLIGHTLY TO FIELD CONDITIONS.
 - PRE STAGE AND EARLY STAGE 1 LANE CLOSURES ARE LIMITED TO HOURS SPECIFIED ON S.P. 'KEEPING ARTERIALS OPEN TO TRAFFIC.'
 - THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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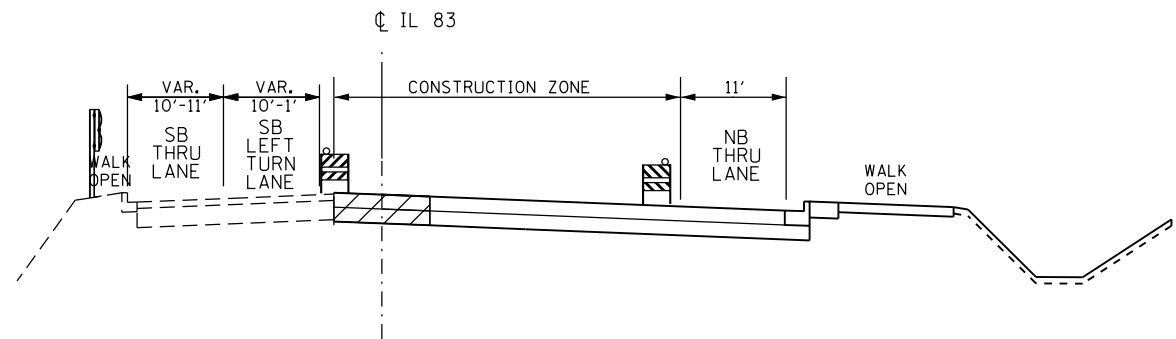
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

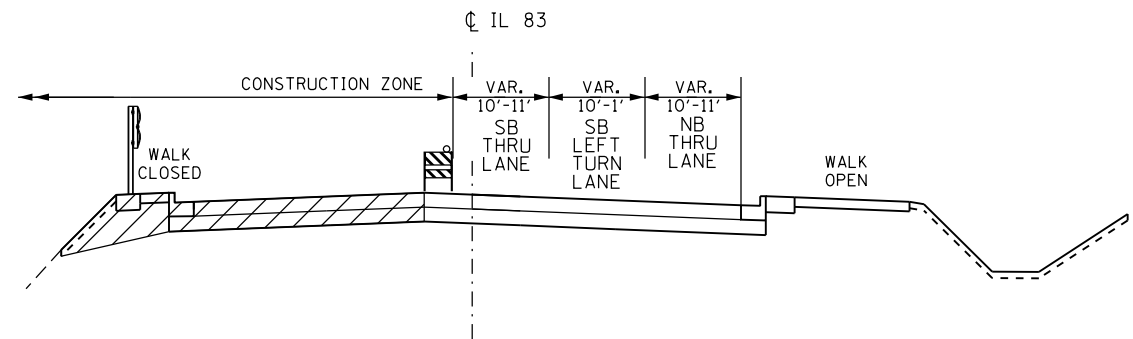
**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
STAGING AND EROSION & SEDIMENT CONTROL SEQUENCING
CONSTRUCTION TYPICAL SECTIONS, STAGE I**

SCALE: NONE SHEET NO. 1 of 2 STA. 162+00 TO STA. 186+00

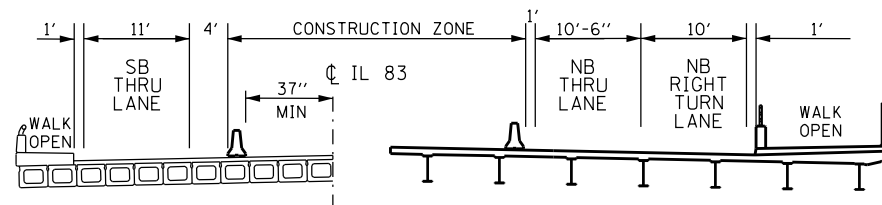
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	25
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



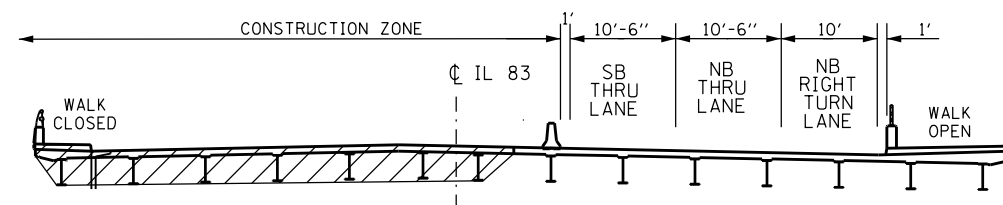
STAGE 1A MOT TYPICAL SECTION SOUTH OF BRIDGE
STA. 170+76 TO STA. 174+69



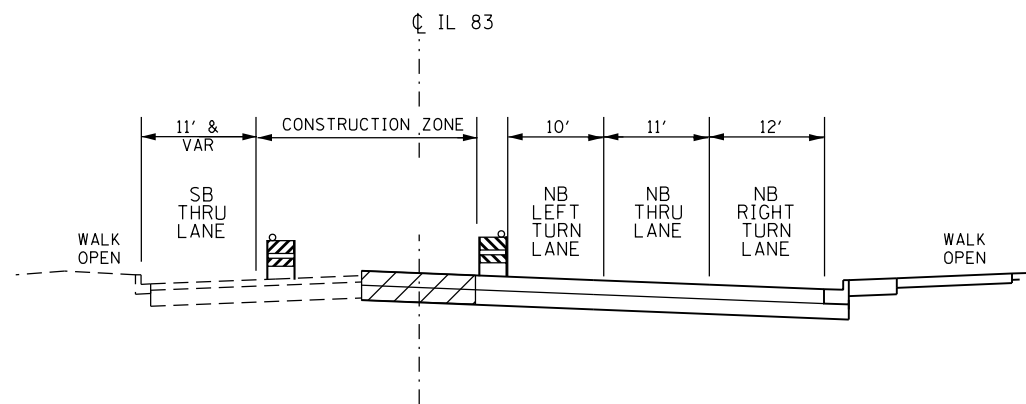
STAGE II MOT TYPICAL SECTION SOUTH OF BRIDGE
STA. 170+76 TO STA. 174+69



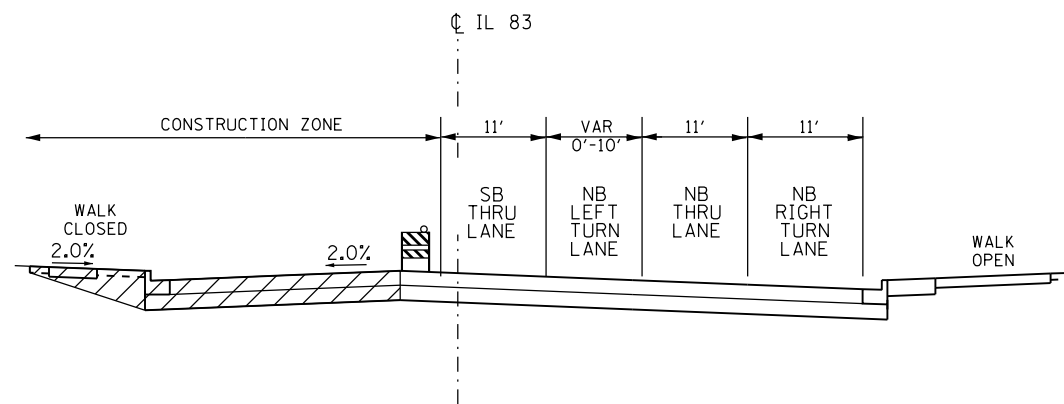
STAGE 1A MOT TYPICAL SECTION ON BRIDGE
STA. STA. 174+69 TO 177+43
NOTE; NO BRIDGE CONSTRUCTION THIS PHASE



STAGE II MOT TYPICAL SECTION ON BRIDGE
STA. STA. 174+69 TO 177+43



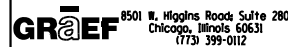
STAGE IA MOT TYPICAL SECTION NORTH OF BRIDGE
STA. 177+43 TO STA. 179+30



STAGE II MOT TYPICAL SECTION NORTH OF BRIDGE
STA. 177+43 TO STA. 179+30

SIGNS "CAUTION NEW LANES STOP HERE" OR "CAUTION NEW LANES STOP HERE ON RED" SHALL BE INSTALLED IN LINE WITH STOP BARS AS REQUIRED TWO LANE ROAD WHERE TRAFFIC IS MOVED CLOSER FOR A PERIOD OF TWO WEEKS UPON INITIATING THE STAGE.

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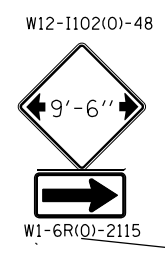
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
CONSTRUCTION TYPICAL SECTIONS STAGES IA & II

SCALE: NONE SHEET NO. 2 of 2 STA. 162+00 TO STA. 186+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	26
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



MAX WIDTH
9'-6"
AHEAD ON
US 6

Legend



Google Earth

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800 ft

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GR&EF 8501 W. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1951	DESIGNED - JWB	REVISED -
	DRAWN - JWB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

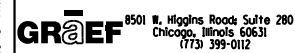
IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
ADVANCED WARNING SIGNS

SHEET NO. 2 OF 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	26A
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



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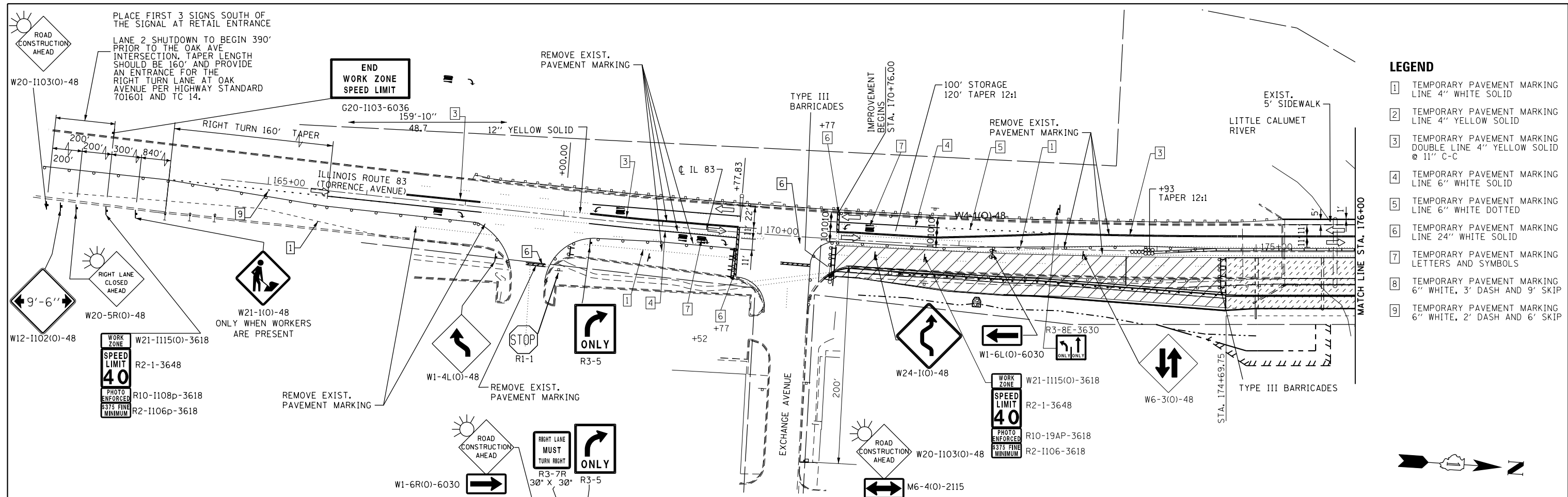
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

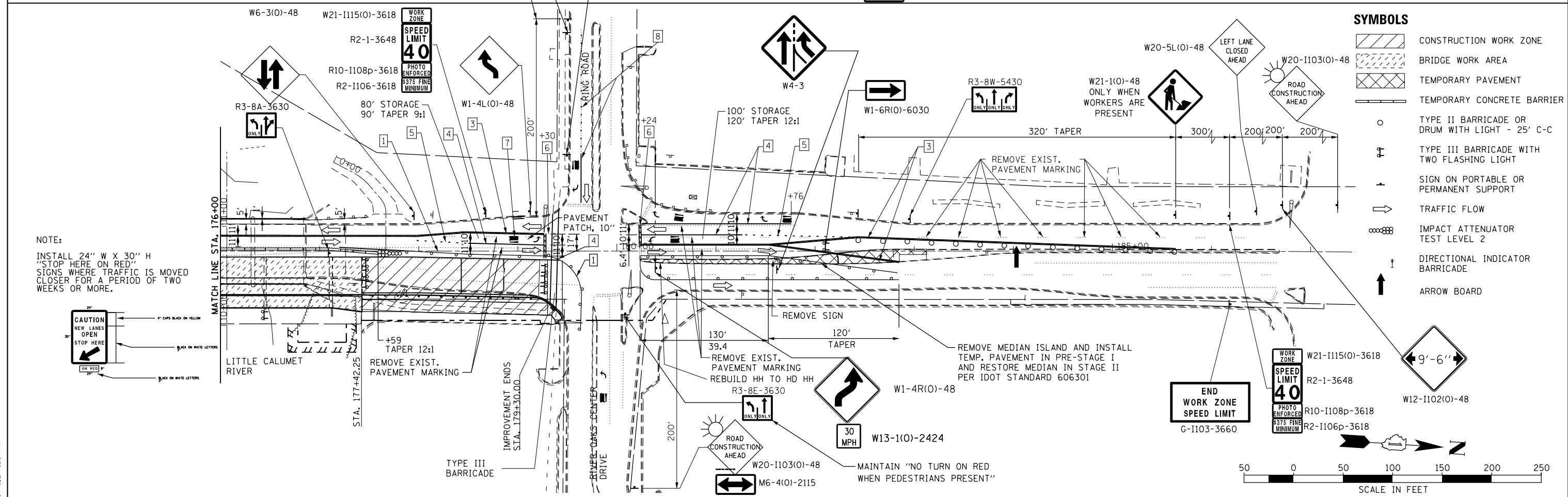
IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
ADVANCED WARNING SIGNS

SHEET NO. 1 OF 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	26B
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

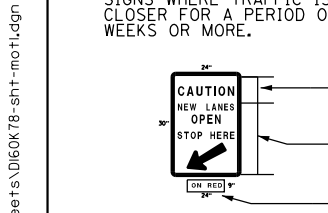


- LEGEND**
- 1 TEMPORARY PAVEMENT MARKING LINE 4" WHITE SOLID
 - 2 TEMPORARY PAVEMENT MARKING LINE 4" YELLOW SOLID
 - 3 TEMPORARY PAVEMENT MARKING DOUBLE LINE 4" YELLOW SOLID @ 11" C-C
 - 4 TEMPORARY PAVEMENT MARKING LINE 6" WHITE SOLID
 - 5 TEMPORARY PAVEMENT MARKING LINE 6" WHITE DOTTED
 - 6 TEMPORARY PAVEMENT MARKING LINE 24" WHITE SOLID
 - 7 TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
 - 8 TEMPORARY PAVEMENT MARKING 6" WHITE, 3" DASH AND 9' SKIP
 - 9 TEMPORARY PAVEMENT MARKING 6" WHITE, 2" DASH AND 6' SKIP



- SYMBOLS**
- CONSTRUCTION WORK ZONE
 - BRIDGE WORK AREA
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER
 - TYPE II BARRICADE OR DRUM WITH LIGHT - 25' C-C
 - TYPE III BARRICADE WITH TWO FLASHING LIGHT
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TRAFFIC FLOW
 - IMPACT ATTENUATOR TEST LEVEL 2
 - DIRECTIONAL INDICATOR BARRICADE
 - ARROW BOARD

NOTE:
INSTALL 24" W X 30" H "STOP HERE ON RED" SIGNS WHERE TRAFFIC IS MOVED CLOSER FOR A PERIOD OF TWO WEEKS OR MORE.



GRAF 8501 W. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

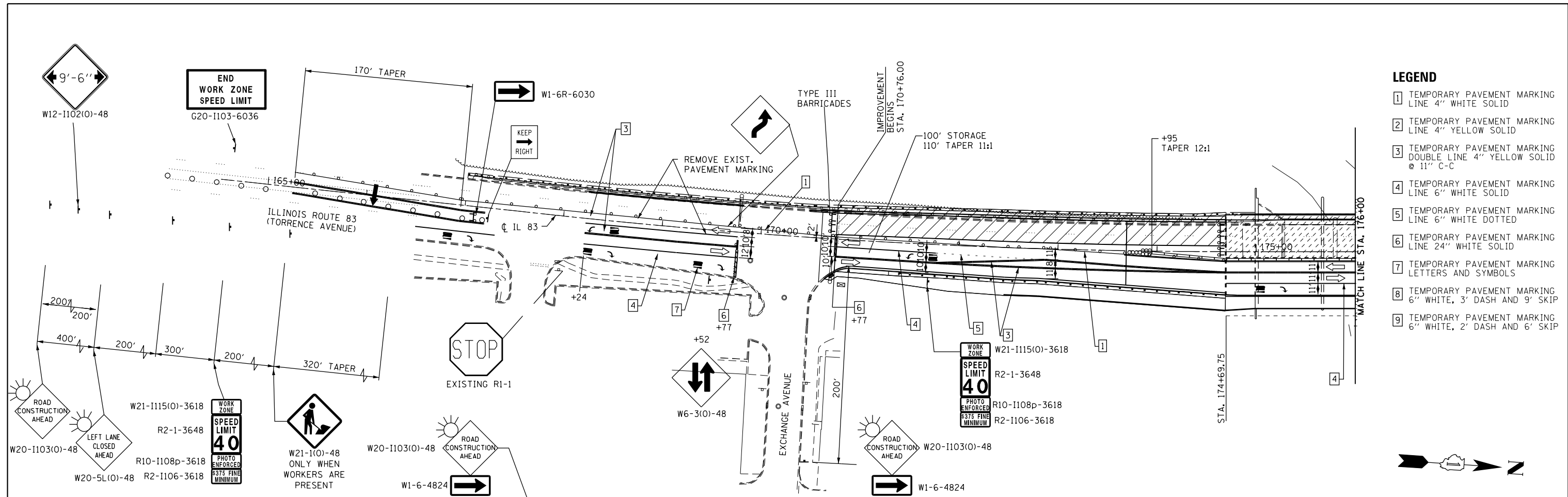
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DATE - 01/23/2018	REVISED - 03/13/2018	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

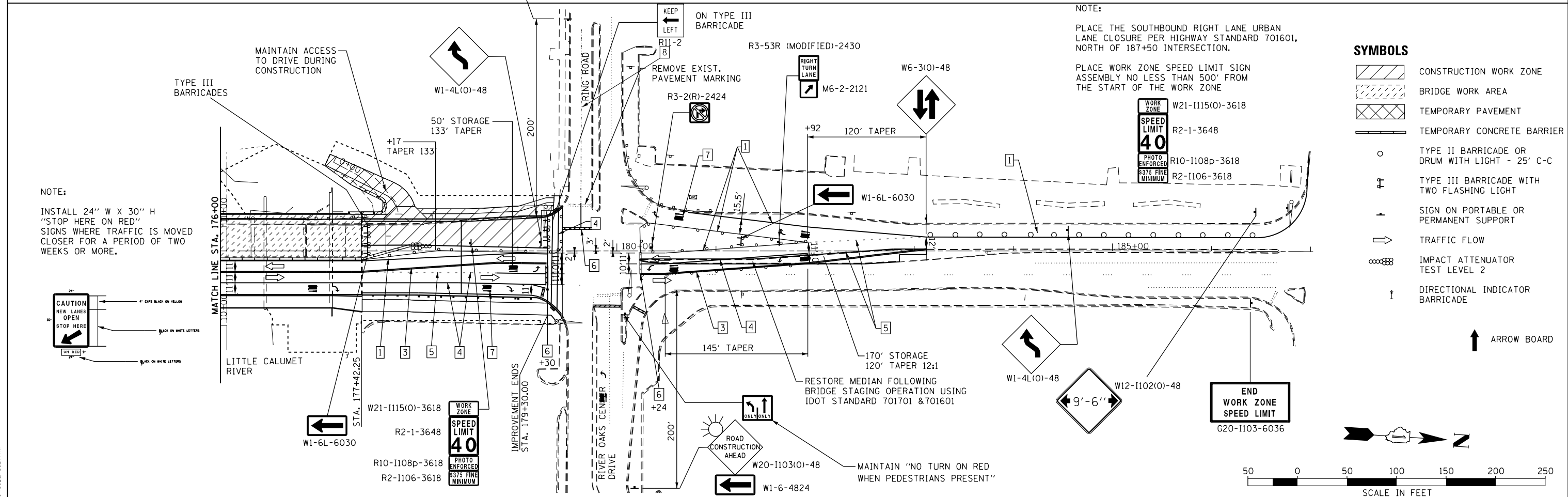
**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
STAGING AND TRAFFIC CONTROL - STAGE 1**

F.A.P. RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 27
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- 1 TEMPORARY PAVEMENT MARKING LINE 4" WHITE SOLID
 - 2 TEMPORARY PAVEMENT MARKING LINE 4" YELLOW SOLID
 - 3 TEMPORARY PAVEMENT MARKING DOUBLE LINE 4" YELLOW SOLID @ 11" C-C
 - 4 TEMPORARY PAVEMENT MARKING LINE 6" WHITE SOLID
 - 5 TEMPORARY PAVEMENT MARKING LINE 6" WHITE DOTTED
 - 6 TEMPORARY PAVEMENT MARKING LINE 24" WHITE SOLID
 - 7 TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
 - 8 TEMPORARY PAVEMENT MARKING 6" WHITE, 3' DASH AND 9" SKIP
 - 9 TEMPORARY PAVEMENT MARKING 6" WHITE, 2' DASH AND 6" SKIP

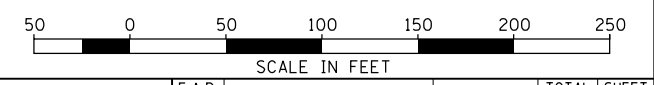
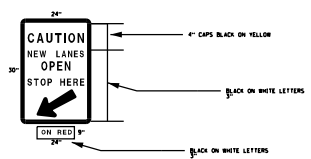


NOTE:
PLACE THE SOUTHBOUND RIGHT LANE URBAN LANE CLOSURE PER HIGHWAY STANDARD 701601, NORTH OF 187+50 INTERSECTION.

PLACE WORK ZONE SPEED LIMIT SIGN ASSEMBLY NO LESS THAN 500' FROM THE START OF THE WORK ZONE

- SYMBOLS**
- CONSTRUCTION WORK ZONE
 - BRIDGE WORK AREA
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER
 - TYPE II BARRICADE OR DRUM WITH LIGHT - 25' C-C
 - TYPE III BARRICADE WITH TWO FLASHING LIGHT
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TRAFFIC FLOW
 - IMPACT ATTENUATOR TEST LEVEL 2
 - DIRECTIONAL INDICATOR BARRICADE



NOTE:
INSTALL 24" W X 30" H "STOP HERE ON RED" SIGNS WHERE TRAFFIC IS MOVED CLOSER FOR A PERIOD OF TWO WEEKS OR MORE.




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8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = 1951	DESIGNED - JWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER STAGING AND TRAFFIC CONTROL - STAGE 2	F.A.P. RTE. = 358	SECTION = 0909.1-B	COUNTY = COOK	TOTAL SHEETS = 138	SHEET NO. = 29		
	PLOT SCALE = 100.0000' / 1"	CHECKED - RS	REVISED -			SCALE: 1" = 50'	SHEET NO. 3 OF 3	STA. 165+00	TO STA. 187+00	CONTRACT NO. 60K78		
	PLOT DATE = 3/14/2018 - 8:48:30 AM	DATE = 01/23/2018	REVISED = 03/13/2018						ILLINOIS FED. AID PROJECT			





WOUS IMPACTS LEGEND

- TEMPORARY 0.14 AC. 
- PERMANENT 0.04 AC. 

WETLAND IMPACTS LEGEND

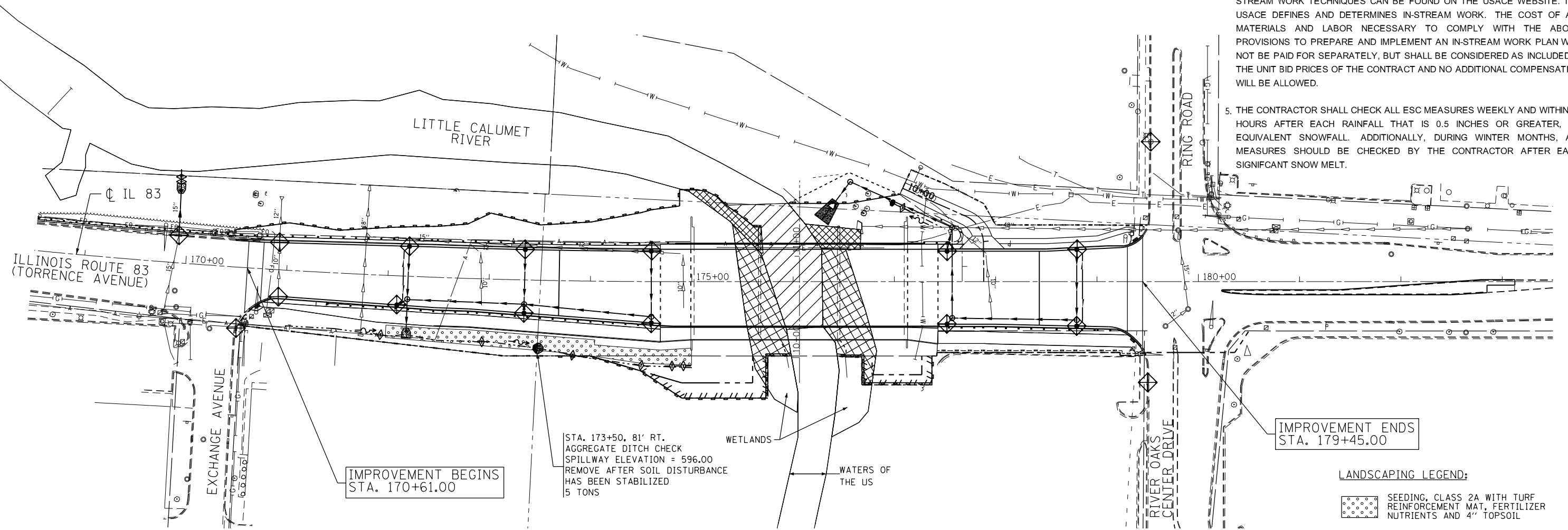
- PERMANENT 0.18 AC. 


EROSION CONTROL LEGEND:

-  TEMPORARY DITCH CHECK, 20 FT +/-
-  EROSION CONTROL PERIMETER BARRIER
-  TEMPORARY FENCE
-  INLET FILTERS

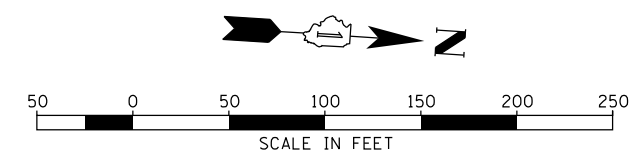
EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED AT A RATE OF 100 POUNDS PER ACRE. SEE LANDSCAPE PLANS FOR LOCATIONS
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL PERMANENT STABILIZATION HAS BEEN COMPLETED.
3. SEE REMOVAL PLAN FOR TEMPORARY TREE PROTECTION FENCE AND CANOPY PRUNING.
4. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL THAT IS 0.5 INCHES OR GREATER, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOW MELT.



- LANDSCAPING LEGEND:**
-  SEEDING, CLASS 2A WITH TURF REINFORCEMENT MAT, FERTILIZER NUTRIENTS AND 4" TOPSOIL

THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND - NO INTRUSION". THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAMBURG, 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 SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

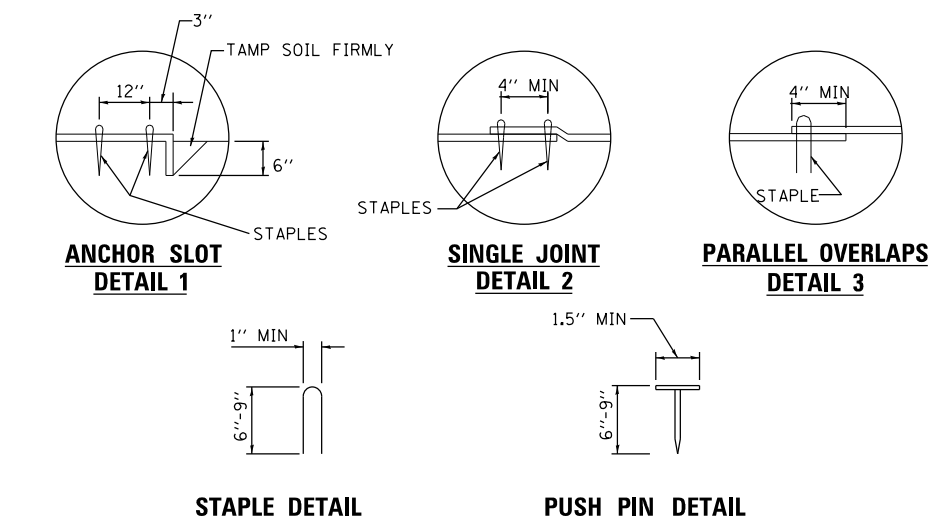
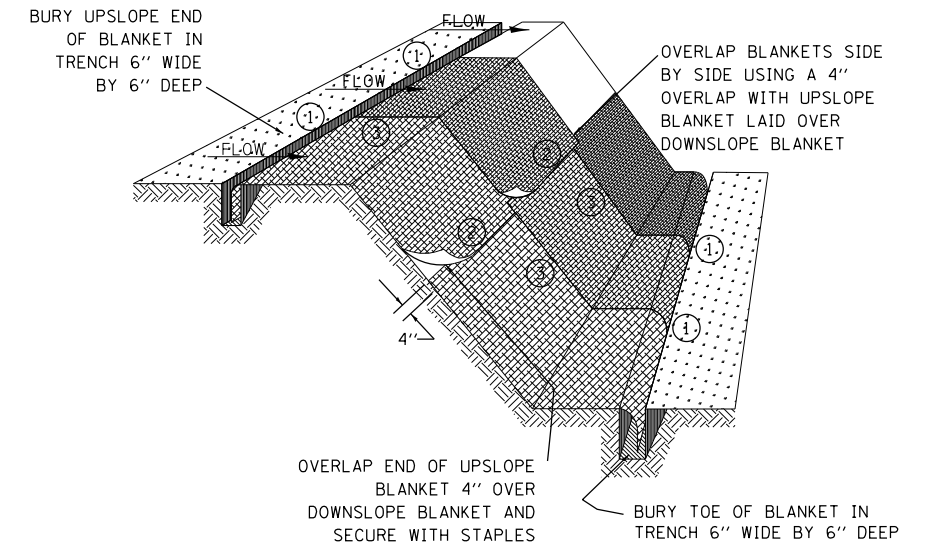
**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1" = 50' SHEET NO. EROS-1 OF 1 STA. 168+50 TO STA. 183+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	30
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.
2. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
3. TEMPORARY SEEDING IS PROVIDED FOR ALL DISTURBED AREA THAT IS NOT PAVED OR GRAVELED. THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS WITHIN 14 DAYS OF INITIAL DISTURBANCE WITH TEMPORARY OR PERMANENT SEEDING.



NOTES:

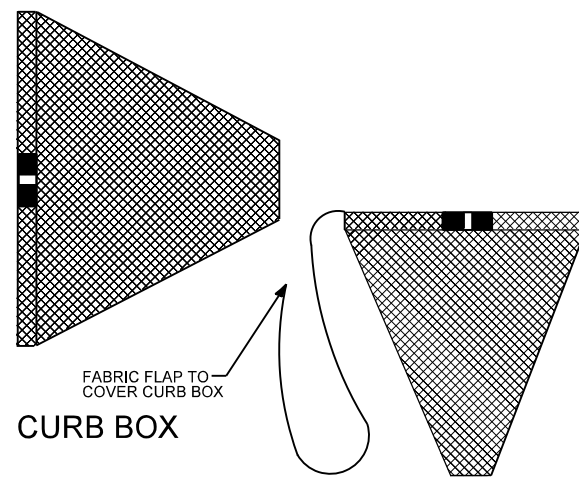
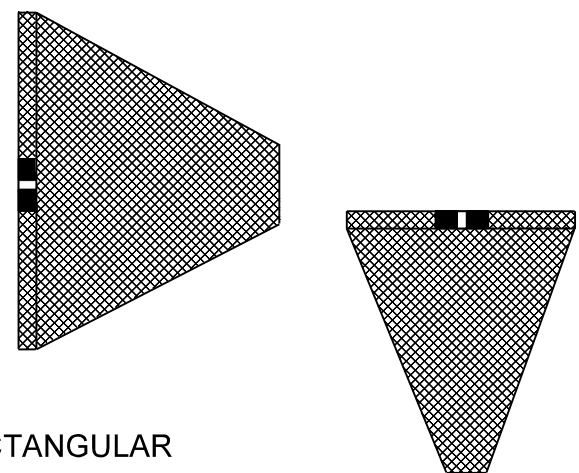
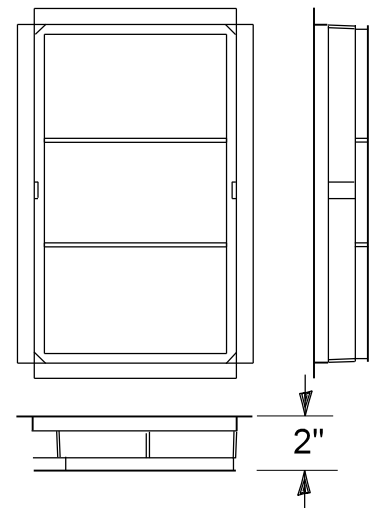
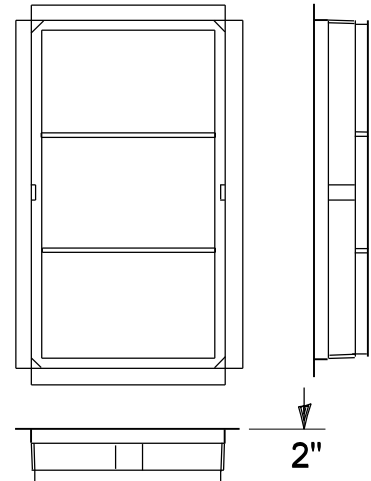
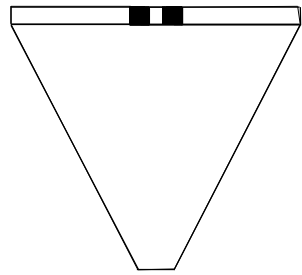
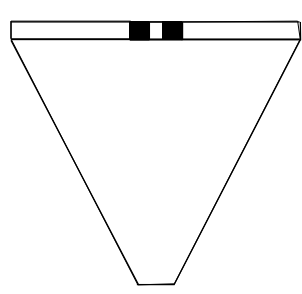
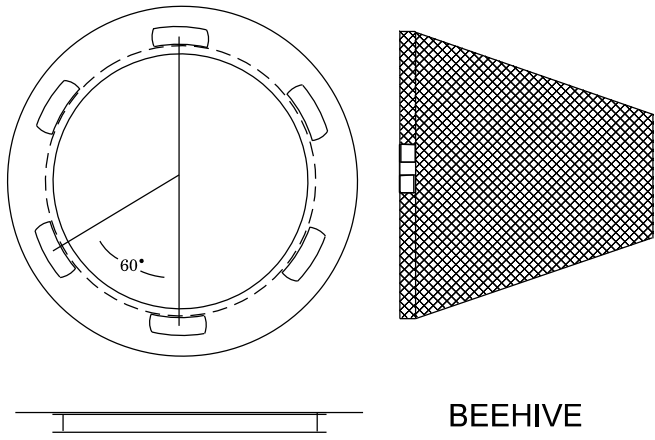
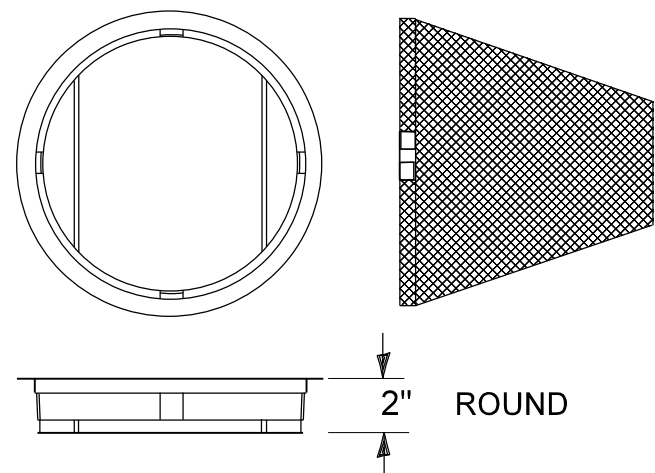
1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STITCHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STITCHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

LOCATION			20101000	28000250	28000305	28000315	28000400	28000510	28100107	28200200
			TEMPORARY FENCE	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECK	AGGREGATE DITCH CHECK	PERIMETER EROSION BARRIER	INLET FILTERS	STONE RIPRAP, CLASS A4	FILTER FABRIC
			FOOT	POUND	FOOT	TON	FOOT	EACH	SQ YD	SQ YD
STATION	TO	STATION								
169+90		176+00	378	30	140	5	843	9	99	99
176+00		179+45	629	17	20	0	225	6	131	131
		10+00				2				3
TOTALS			1007	47	160	7	1068	15	230	233

LOCATION			25000210	25000310	25200110	25000400
			SEEDING CLASS 2A	SEEDING CLASS 4B (MODIFIED)	SODDING SALT TOLERANT	NITROGEN FERTILIZER NUTRIENT
			(ACRE)	(ACRE)	(SQ YD)	POUND
STATION	TO	STATION				
170+61		175+00	0.10	0.20	545	16
175+00		176+12		0.17		0
176+12		179+45	0.00	0.00	858	11
TOTALS			0.10	0.37	1403	26

**EROSION CONTROL BLANKET
INSTALLATION DETAILS**

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INLET AND PIPE PROTECTION

DESCRIPTION: This work shall consist of furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface storm water runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the worksite and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials.

The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

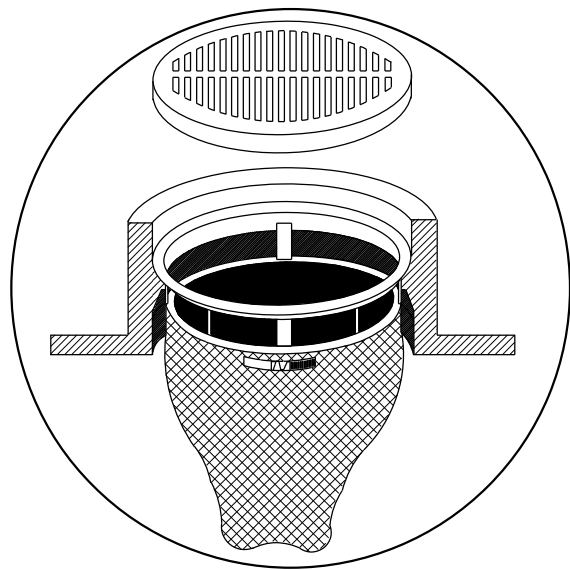
The drainage structure inlet filter assembly shall remain in place until final removal of the assembly is directed by the Engineer. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.

MATERIALS: The drainage structure inlet shall be the (INLET AND PIPE PROTECTION), as furnished by Marathon Materials, Inc. 25223 W. Shultz St., Plainfield, IL 60544, (800) 983-0493, or approved equal. A detailed drawing in the plans depicts the drainage structure inlet filter assembly.

The drainage structure inlet filter assembly shall consist of a steel frame with a replaceable geotextile fabric bag attached with a steel band with locking cap that is suspended from the frame. A clean used bag and used steel frame in good condition, meeting the approval of the Engineer, may be substituted for new materials.

The drainage structure inlet filter assembly frame shall be rigid steel meeting the requirements of ASTM-A36. The frame shall include an overflow feature that is welded to the frame's ring. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract.

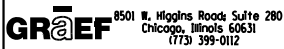


The drainage structure inlet filter assembly bag shall be constructed of polypropylene geotextile fabric with a minimum weight of 4 ounces per square yard, minimum flow rate of 145 gallons per minute per square foot, and designed for minimum salt and debris capacity of 2 cubic feet. The filter bag shall be reinforced with an outer layer of polyester mesh fabric with a minimum weight of 4 ounces per square yard. The filter bag shall be suspended from the steel frame with a stainless steel band and locking cap. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 1/8-inch above the drainage structure frame.

BASIS OF PAYMENT: The work will be paid for at the contract unit price per EACH for INLET FILTER, which price shall include all cost of labor, materials, equipment, and incidental items necessary to perform the work.

INLET FILTERS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
EROSION AND SEDIMENT CONTROL DETAILS**

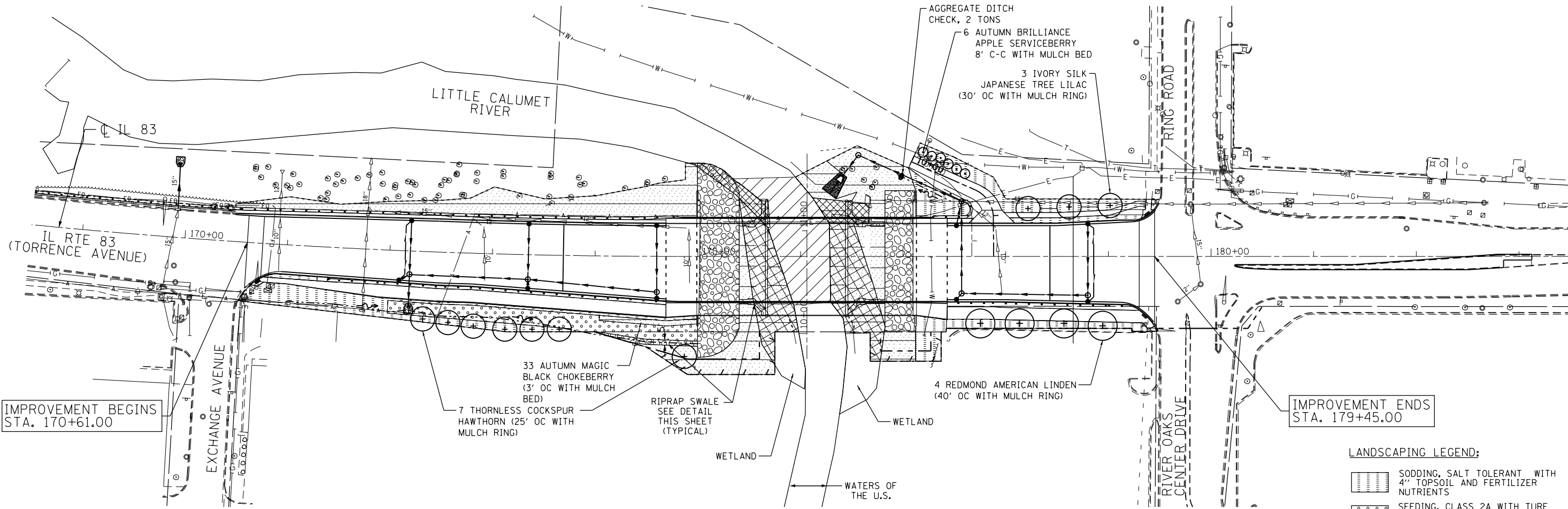
SHEET NO. 2 OF 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	32
CONTRACT NO. 60K78				

ILLINOIS FED. AID PROJECT

WOUS-1 IMPACTS LEGEND WETLANDS IMPACTS LEGEND

- TEMPORARY 0.14 AC.
- PERMANENT 0.04 AC.
- PERMANENT 0.18 AC.



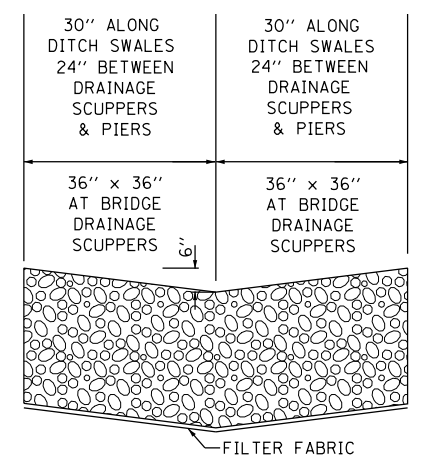
IMPROVEMENT BEGINS STA. 170+61.00

IMPROVEMENT ENDS STA. 179+45.00

LANDSCAPING LEGEND:

- SODDING, SALT TOLERANT WITH 4" TOPSOIL AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A WITH TURF REINFORCEMENT MAT, FERTILIZER NUTRIENTS AND 4" TOPSOIL
- SEEDING, CLASS 4 (MODIFIED) WITH KNITTED STRAW EROSION CONTROL BLANKET & 12" TOPSOIL
- RIPRAP CLASS A4 AND FILTER FABRIC OR AGGREGATE DITCH CHECK AND FILTER FABRIC

NOTE: A FIBER OPTIC HANDHOLE AT THE SOUTHWEST CORNER OF ILLINOIS ROUTE 83 AND RING ROAD WAS CONSTRUCTED AFTER THE S.U.E. SURVEY INCLUDED IN THE PLANS. AN UNDERGROUND LOCATE FOR FIBER OPTIC UTILITIES MUST BE COMPLETED PRIOR TO CONSTRUCTION WORK AND DOCUMENTED PER THE SPECIFICATIONS.



RIPRAP SWALE DETAIL



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GRAEF 8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = 1908	DESIGNED - JWB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

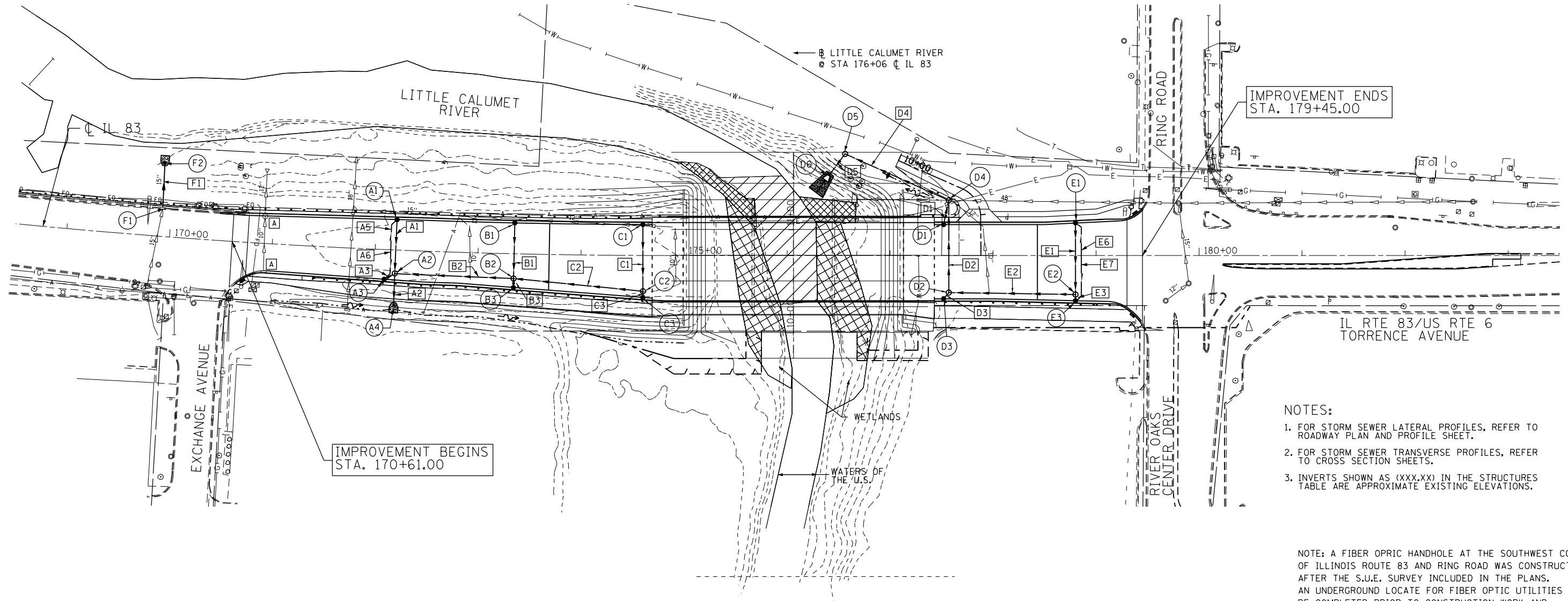
IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
LANDSCAPE PLAN
SCALE: 1" = 50' SHEET NO. LAND-1 OF 1 STA. 168+50 TO STA. 183+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	33
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

STRUCTURE NO.	STATION	OFFSET	STRUCTURE	RIM	INVERT				PIPE NO.	SIZE INCH	LENGTH FOOT	Slope	TRENCH BACKFILL CU YD
					N	S	E	W					
A1	172+20.00	29.70	LT CB-A-4-24	598.49			595.74		A1	12	50	0.50%	10.8
A2	172+20.00	23.00	RT MH-A-4-1CL	598.37	595.23	595.13	595.54	595.49	A2	15	24	0.50%	6.2
A3	172+10.00	28.76	RT CB-A-4-24	598.23	595.48				A3	12	8	0.50%	1.9
A4	172+20.00	55.00	RT CES, 15", 1:3					595.01					
B1	173+35.00	30.00	LT CB-A-4-24	599.21			596.46		B1	12	50	0.50%	10.8
B2	173+35.00	24.00	RT MH-A-4-1CL	599.09	596.21	595.90	596.15	596.21	B2	15	111	0.60%	28.7
B3	173+35.00	32.72	RT CB-A-4-24	598.92				596.17	B3	12	5	0.50%	1.1
C1	174+60.00	30.00	LT CB-A-4-24	600.41				597.66	C1	12	71	0.50%	15.1
C2	174+60.00	34.80	RT MH-A-4-1CL	600.06		596.94	597.31	597.18	C2	15	121	0.60%	28.6
C3	174+60.00	41.08	RT CB-A-4-24	599.94			597.19		C3	12	3	0.50%	0.6

STRUCTURE TABLE										PIPE TABLE				
STRUCTURE NO.	STATION	OFFSET	STRUCTURE	RIM	INVERT				PIPE NO.	SIZE INCH	LENGTH FOOT	Slope	TRENCH BACKFILL CU YD	
					N	S	E	W						
D1	177+52.00	30.00	LT CB-A-4-24	600.56				595.71	D1	12	19	1.00%	2.2	
D2	177+57.00	36.00	RT MH-A-4-1CL	600.20	595.38		597.25	595.28	D2	15	84	1.00%	56.8	
D3	177+52.00	42.00	RT CB-A-4-24	600.08				597.33	D3	12	6	1.00%	1.4	
D4	177+57.00	53.20	LT MH-A-6-1CL	598.80	(583.86)	583.70	593.60		D4	48	104	0.20%	145.4	
							595.33							
D5	176+56.40	98.60	LT MH-A-7-1CL	597.00	583.48	583.38			D5	48	24	0.20%		
D6	176+37.10	63.80	LT RCFES, 48"		583.33									
E1	178+80.00	31.50	LT CB-A-4-24	599.68				596.93	E1	12	60	1.00%	12.9	
E2	178+80.00	37.90	RT MH-A-4-1CL	599.39		595.99	596.46	596.24	E2	15	119	0.50%	43.2	
E3	178+80.00	43.90	RT CB-A-4-24	599.27				596.52	E3	12	2	1.00%	0.4	
F1	169+92.00	28.00	LT EX CB	597.58				(589.60)	F1	15	42	5.00%	2.4	
F2	169+90.00	72.00	LT RCFES, 15"				587.40							

PIPE UNDERDRAIN TABLE		
PIPE NO.	SIZE	LENGTH
A5	4	28.5
A6	4	40
E6	4	32.8
E7	4	52.8



- NOTES:
- FOR STORM SEWER LATERAL PROFILES, REFER TO ROADWAY PLAN AND PROFILE SHEET.
 - FOR STORM SEWER TRANSVERSE PROFILES, REFER TO CROSS SECTION SHEETS.
 - INVERTS SHOWN AS (XXX.XX) IN THE STRUCTURES TABLE ARE APPROXIMATE EXISTING ELEVATIONS.

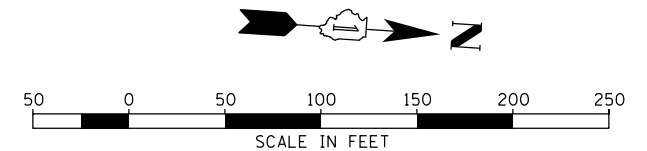
NOTE: A FIBER OPRIC HANDHOLE AT THE SOUTHWEST CORNER OF ILLINOIS ROUTE 83 AND RING ROAD WAS CONSTRUCTED AFTER THE S.U.E. SURVEY INCLUDED IN THE PLANS. AN UNDERGROUND LOCATE FOR FIBER OPTIC UTILITIES MUST BE COMPLETED PRIOR TO CONSTRUCTION WORK AND DOCUMENTED PER THE SPECIFICATIONS.

WOUS IMPACTS LEGEND

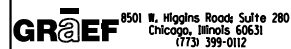
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- PERMANENT 0.04 AC. [Symbol]

WETLAND IMPACTS LEGEND

- PERMANENT 0.18 AC. [Symbol]



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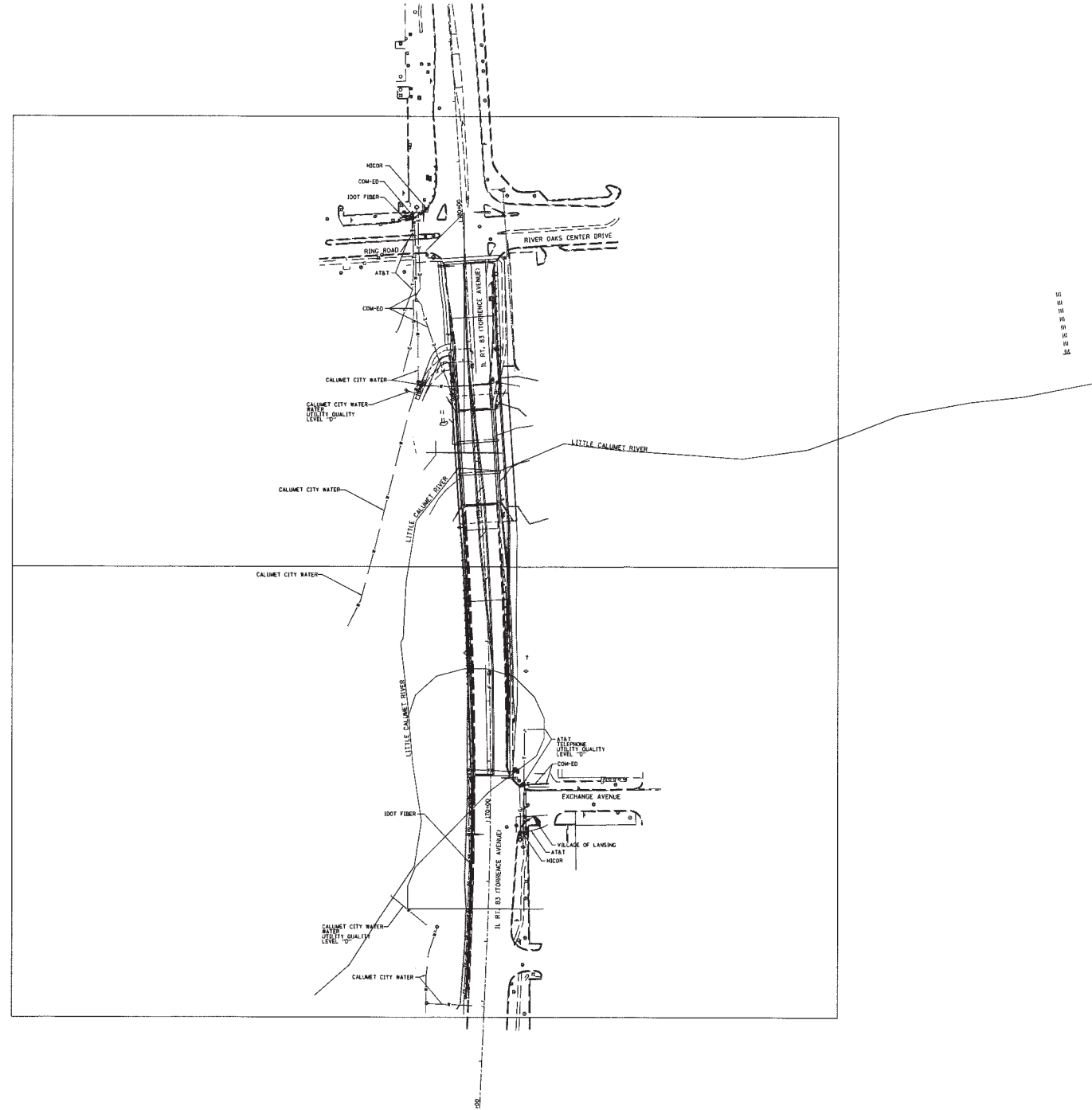
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
DRAINAGE PLAN

SCALE: 1" = 50' SHEET NO. DRAIN-1 OF 1 STA. 168+50 TO STA. 183+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	34
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



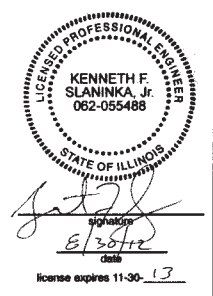
- A — A — A — AERIAL
- UNKNOWN
- CTV — CTV — CTV — CABLE TV
- T — T — T — TELEPHONE
- G — G — G — GAS
- E — E — E — ELECTRIC
- W — W — W — WATER
- FO — FO — FO — FIBER OPTIC

TBE TEST HOLE

UTILITY OWNERS
 AT&T = TELEPHONE
 CALUMET CITY WATER = WATER
 COM-ED = ELECTRIC
 IDOT FIBER = FIBER OPTIC
 NICOR = GAS
 VILLAGE OF LANSING = WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's DL "B" SUE field investigation was performed 8/1/12 through 8/24/12. Changes to utilities after 8/24/12 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510503
 SUE Plan Page: Cover

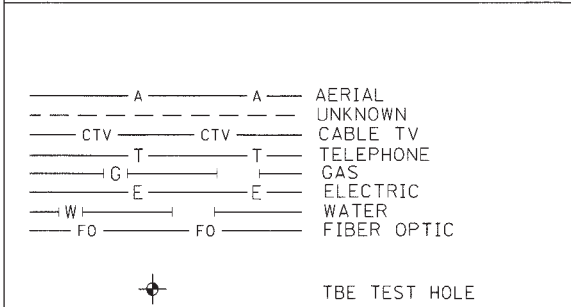
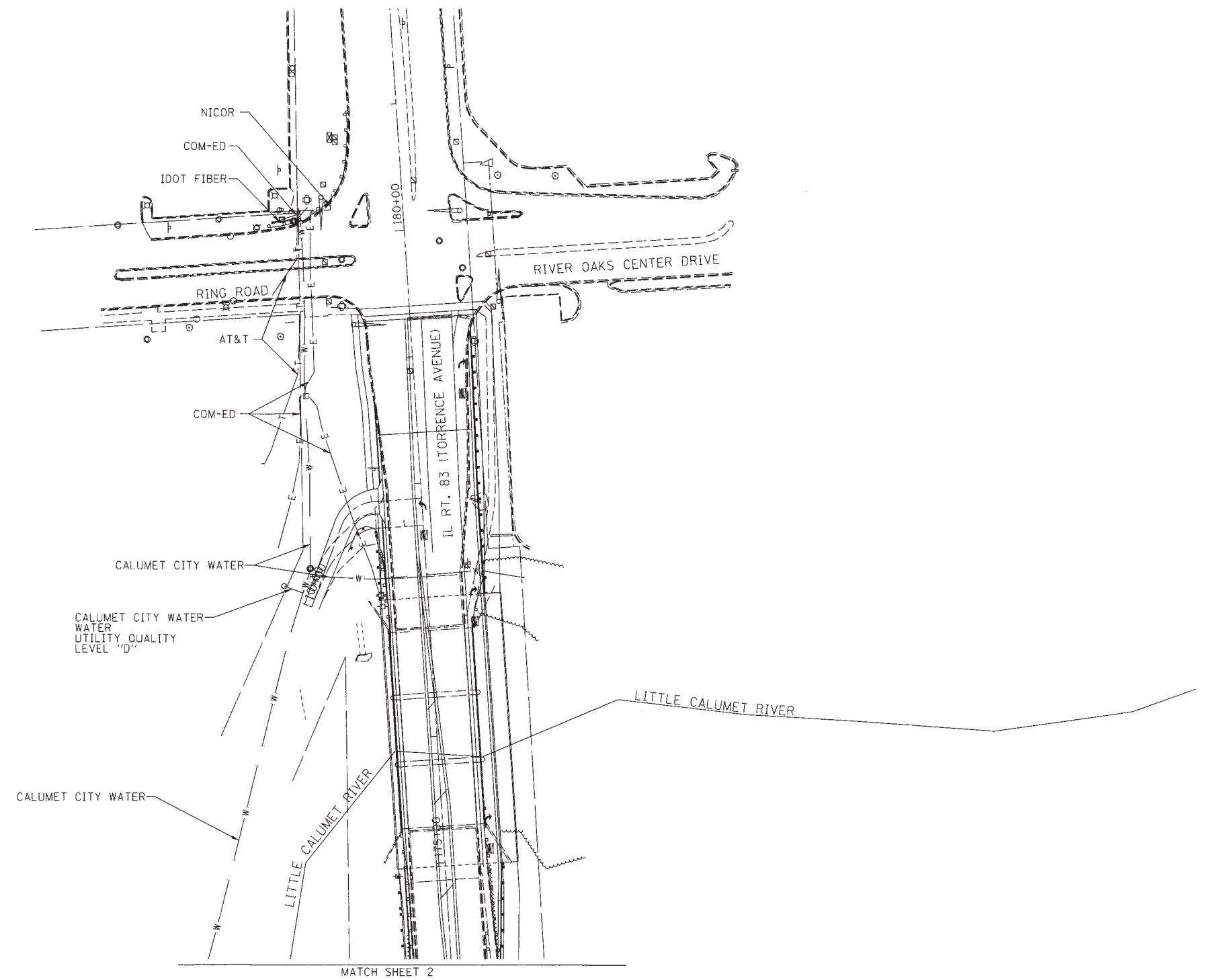
Utility Quality Level "A" : Visually Verified Test Hole
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole
 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED <i>IP</i>	REVISED
DRAWN <i>SRK</i>	REVISED
CHECKED <i>KFS</i>	REVISED
DATE <i>8/28/12</i>	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RT. 83 over Little Calumet River
 Calumet City, Illinois**

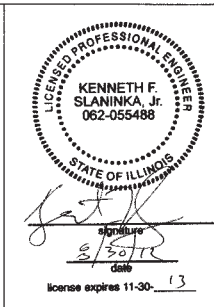
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0909.1-B	Cook	141	35
Contract No. 60K78				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				



UTILITY OWNERS	
AT&T = TELEPHONE	
CALUMET CITY WATER = WATER	
COM-ED = ELECTRIC	
IDOT FIBER = FIBER OPTIC	
NICOR = GAS	
VILLAGE OF LANSING = WATER	

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510503
 SUE Plan Page: 1 of 2

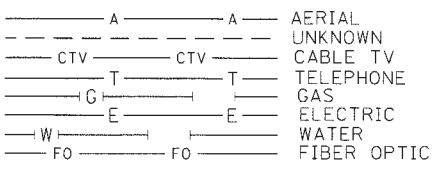
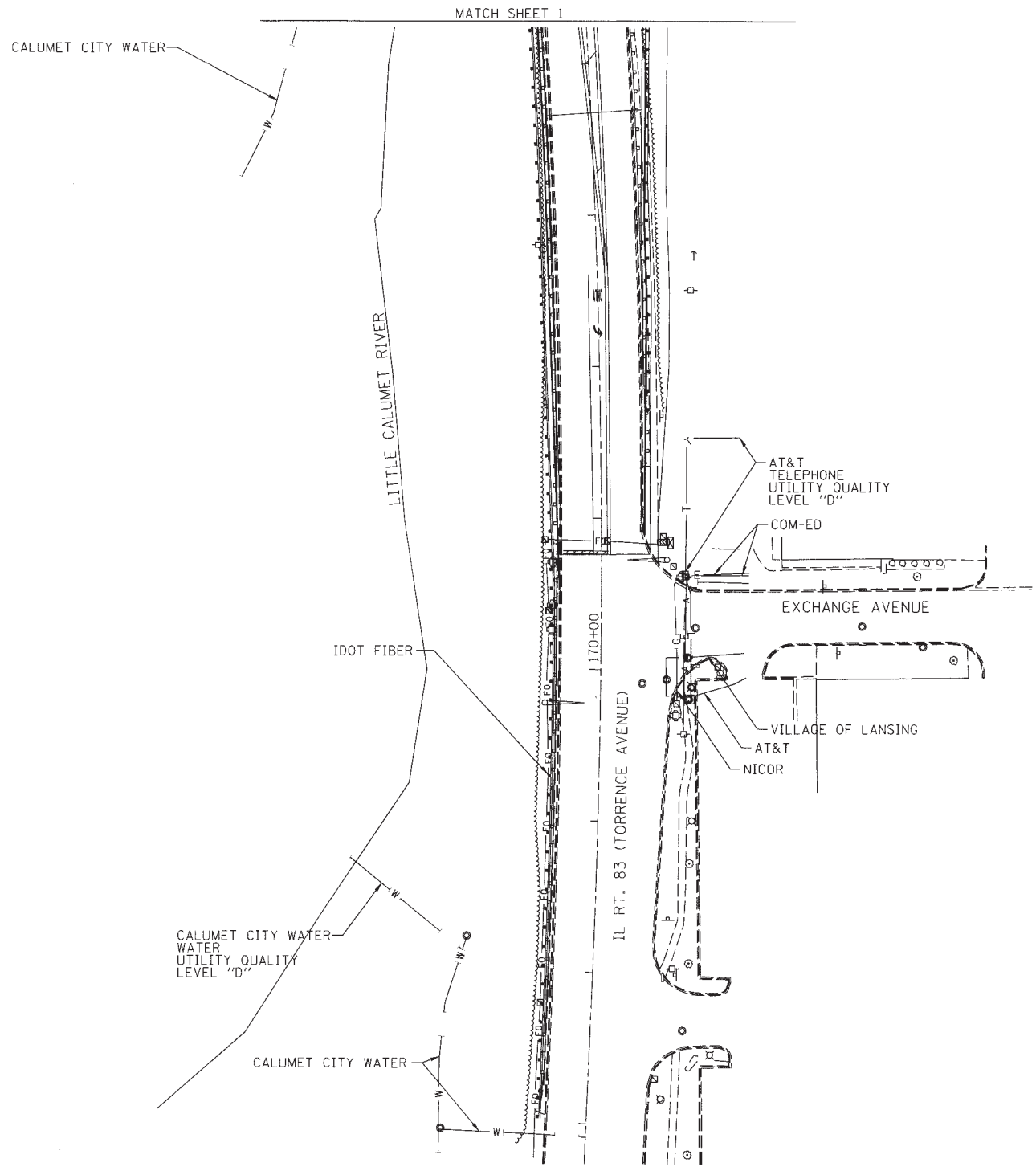
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 Utility Quality Level "B" : Designating/non Visually Verified Test Hole
 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED <i>IP</i>	REVISED
DRAWN <i>SRK</i>	REVISED
CHECKED <i>KFS</i>	REVISED
DATE <i>8/28/12</i>	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 83 over Little Calumet River
Calumet City, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0909.1-B	Cook	141	36
Contract No. 60K78				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				

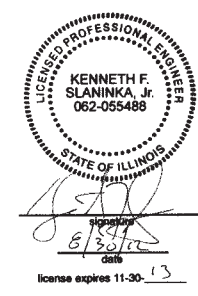
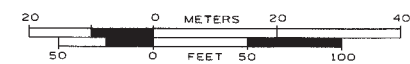


TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
CALUMET CITY WATER	= WATER
COM-ED	= ELECTRIC
IDOT FIBER	= FIBER OPTIC
NICOR	= GAS
VILLAGE OF LANSING	= WATER

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510503
SUE Plan Pages: 2 of 2

Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

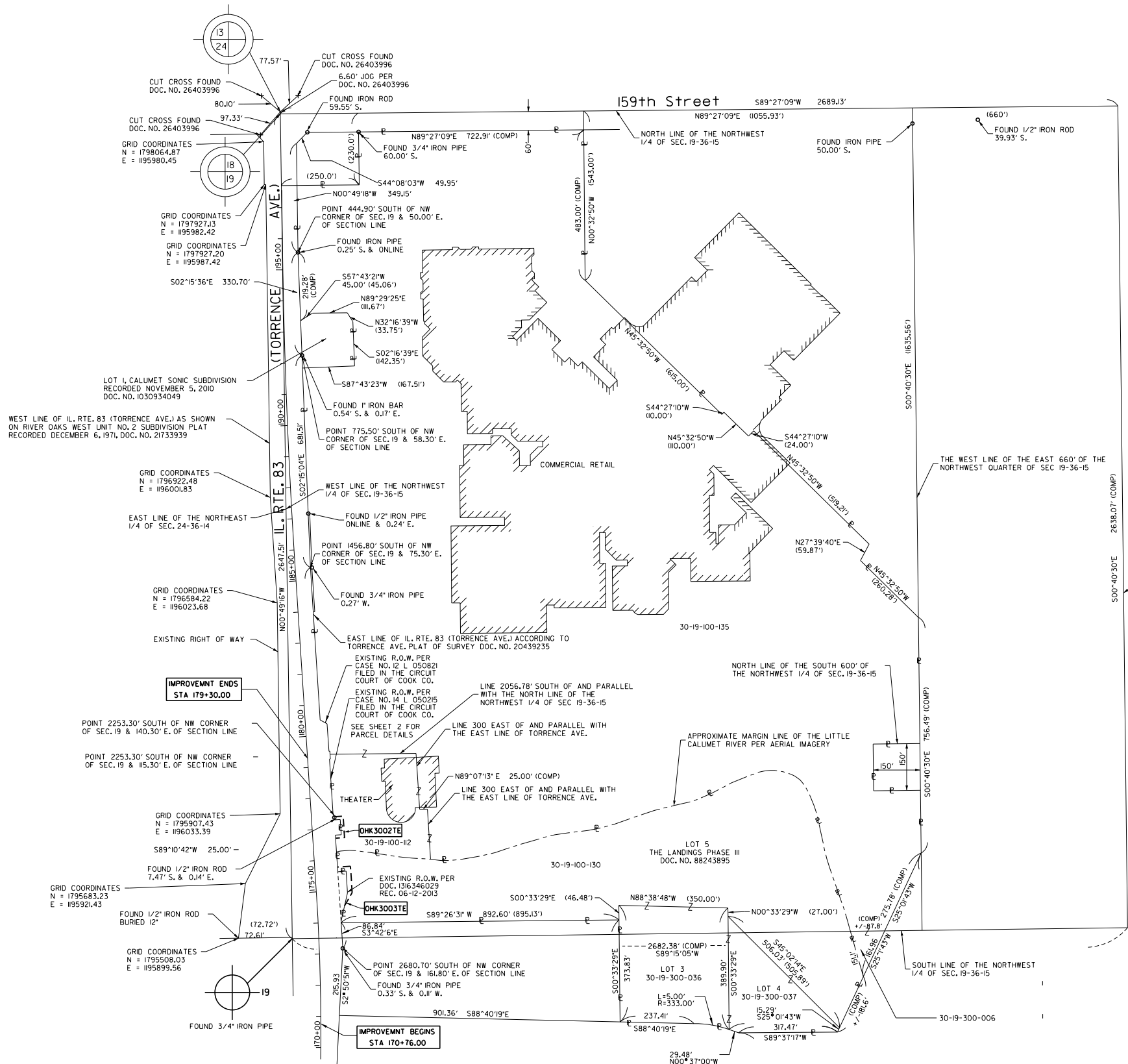
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DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	8/28/12	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

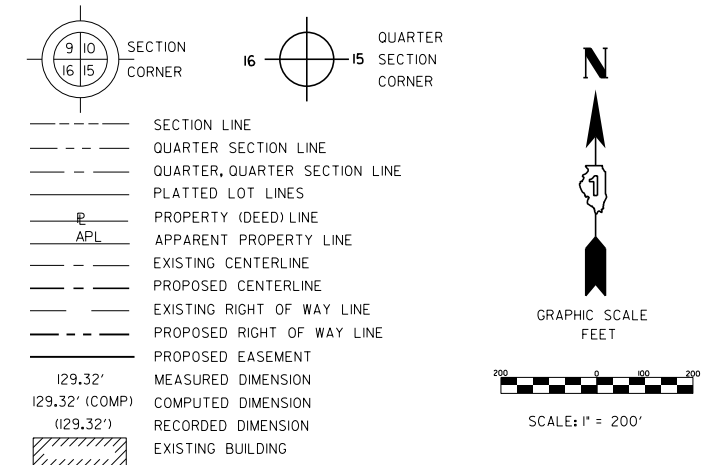
IL RT. 83 over Little Calumet River
Calumet City, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0909.1-B	Cook	141	37
FED. ROAD DIST. NO. - ILLINOIS			IDOT Project No.	

PART OF THE NW 1/4 OF SECTION 19, TWP. 36 N., R. 15 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND



Bearings are based on the Illinois State Plane Coordinate System, East Zone, NAD83, at Ground. Ground to Grid Factor = 0.99999663

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

STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, DB STERLIN CONSULTANTS, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM SURVEYING CORPORATION, NUMBER 184-001909, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 19, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 26TH DAY OF MAY, 2017 A.D.

Thomas J. Galbreath
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3134
LICENSE EXPIRATION DATE: NOV. 30, 2018



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

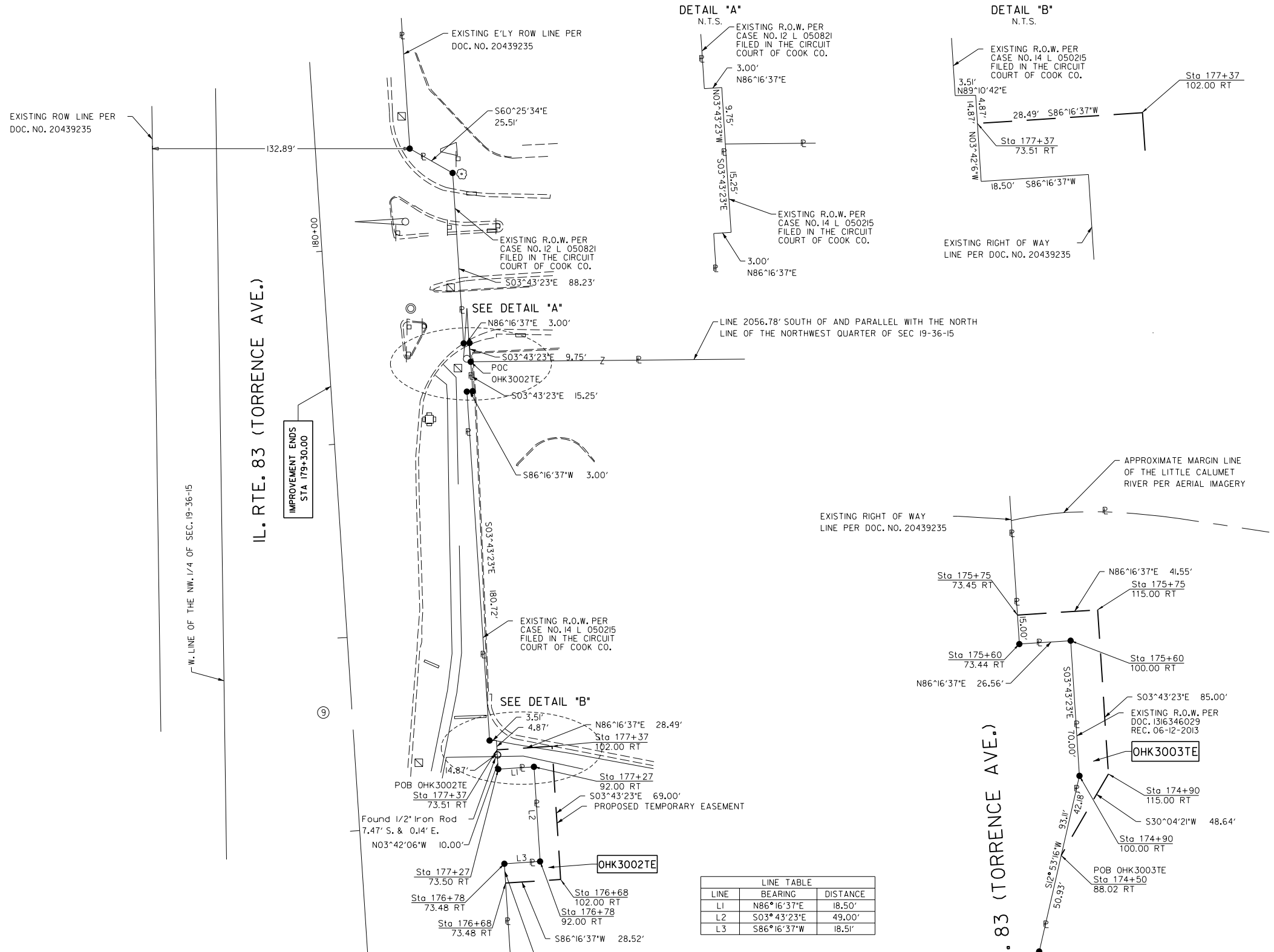
DBS DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
OHK3002TE	River Oaks Realty LLC, an Illinois Limited Liability Company, as to an Undivided 70% Interest; River Oaks CH LLC, an Illinois Limited Liability Company, as to an Undivided 25% Interest; and River Oaks Nassim LLC, an Illinois Limited Liability Company, as to an Undivided 5% Interest, all as Tenants in Common.	73.681	N/A	N/A	N/A	0.024	N/A		30-19-100-135 30-19-100-112 30-19-100-129 30-19-300-006	
OHK3003TE	Village of Lansing	17.093	N/A	N/A	N/A	0.045	N/A		30-19-100-130 30-19-300-036 30-19-300-037	

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 83 (TORRENCE AVE.)
SECTION: EXCHANGE AVE. TO RING RD. COUNTY: COOK
PROJECT JOB NO.: R-90-015-II
STATION: 170+76 TO 179+30
SCALE: 1" = 200' SHEET 1 OF 2

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

PART OF THE NW 1/4 OF SECTION 19, TWP. 36 N., R. 15 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

Bearings are based on to the Illinois State Plane Coordinate System, East Zone, NAD83, at Ground. Ground to Grid Factor = 0.99999663

GRAPHIC SCALE FEET
SCALE: 1" = 30'

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
 COUNTY OF COOK)

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DATED AT CHICAGO, ILLINOIS THIS 26TH DAY OF MAY, 2017 A.D.

Thomas J. Galbreath
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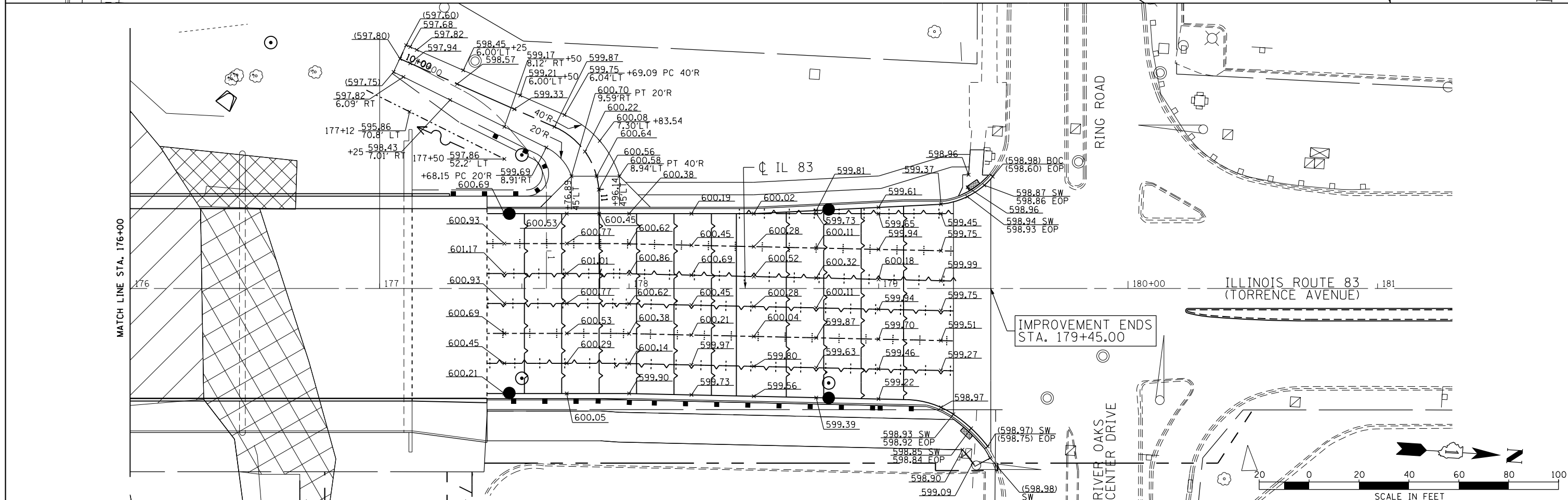
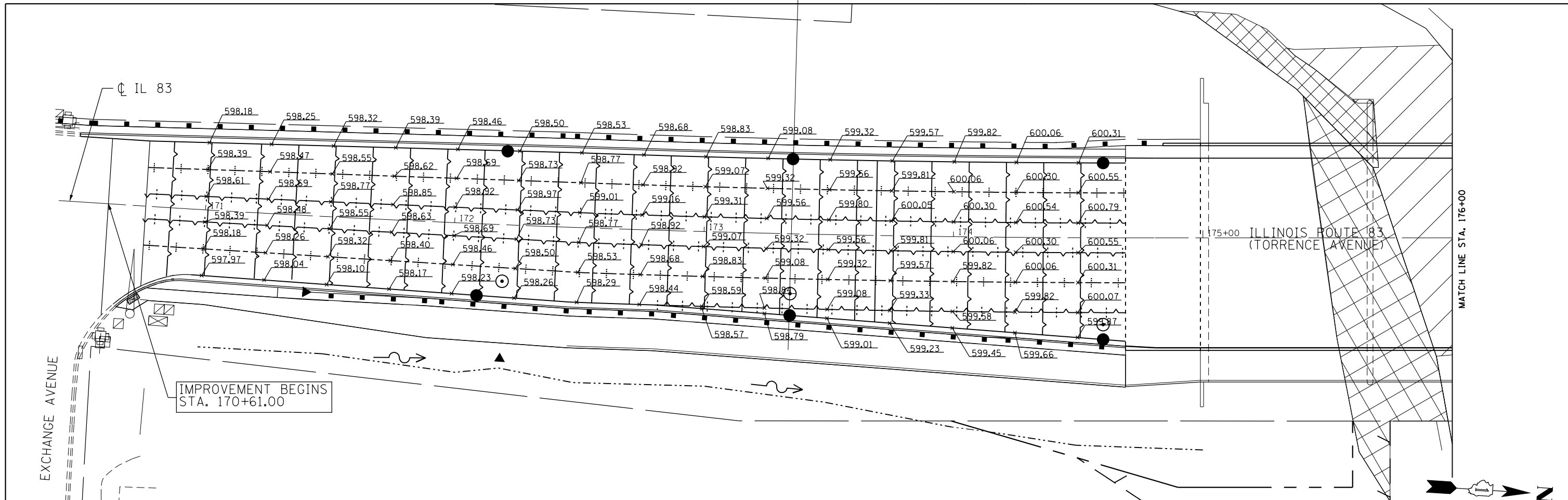
DBS DB STERLIN CONSULTANTS, INC.
 123 N. WACKER DRIVE SUITE 2000
 CHICAGO, ILLINOIS 60606
 TEL. (312)857-1006 FAX. (312)857-1056

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
OHK3002TE	River Oaks Realty LLC, an Illinois Limited Liability Company, as to an Undivided 70% Interest; River Oaks CH LLC, an Illinois Limited Liability Company, as to an Undivided 25% Interest; and River Oaks Nassim LLC, an Illinois Limited Liability Company, as to an Undivided 5% Interest, all as Tenants in Common.	73.681	N/A	N/A	N/A	0.024	N/A		30-19-100-135 30-19-100-112 30-19-100-129 30-19-300-006	
OHK3003TE	Village of Lansing	17.093	N/A	N/A	N/A	0.045	N/A		30-19-100-130 30-19-300-036 30-19-300-037	

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 83 (TORRENCE AVE.)

SECTION: EXCHANGE AVE. TO RING RD. COUNTY: COOK
 PROJECT JOB NO.: R-90-015-II
 STATION: 170+76 TO 179+30
 SCALE: 1" = 30' SHEET 2 OF 2

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



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GRAEF 8501 N. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

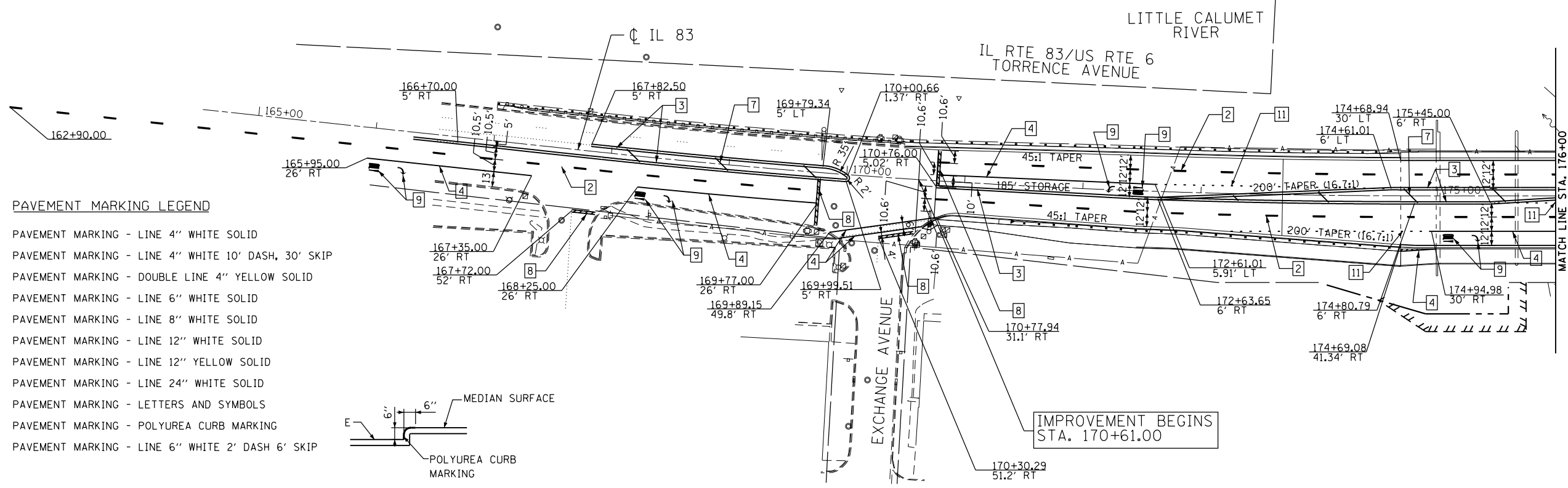
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

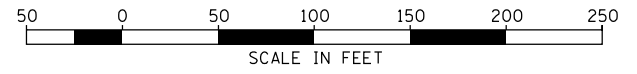
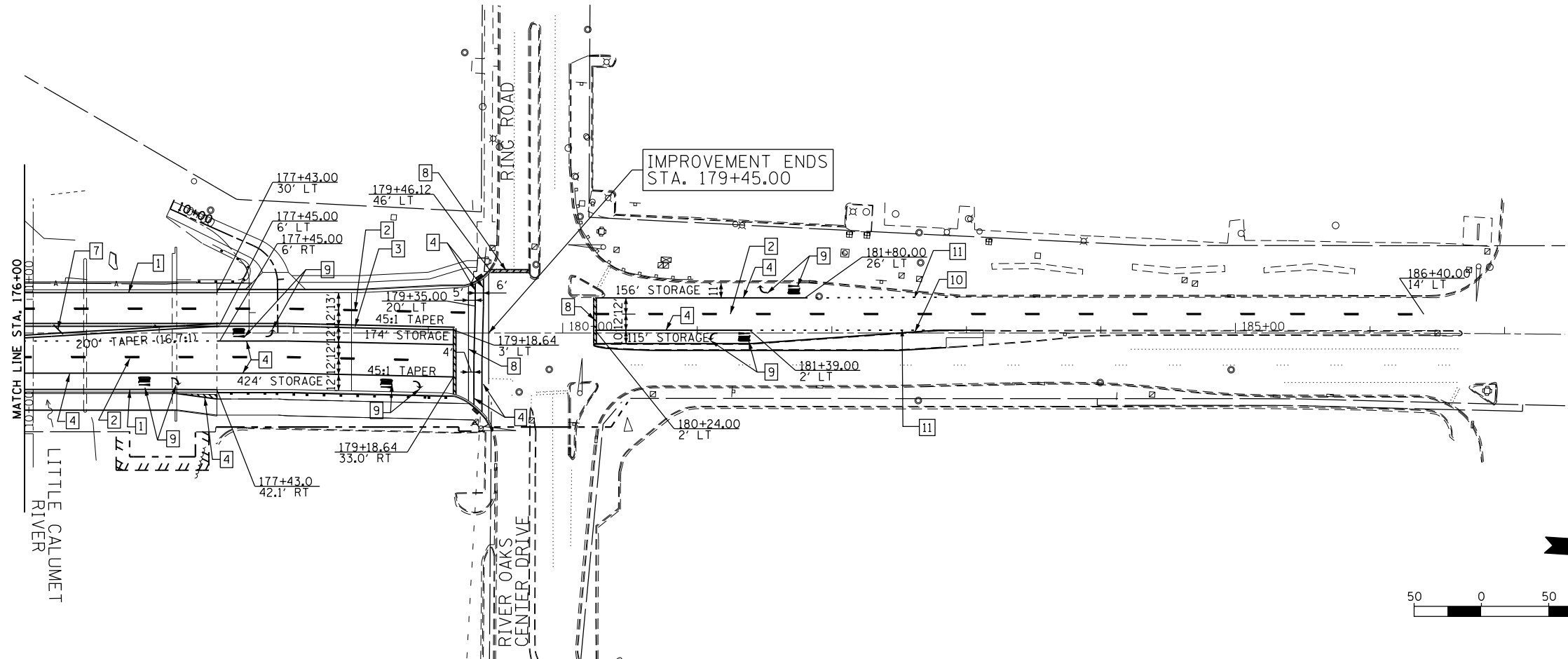
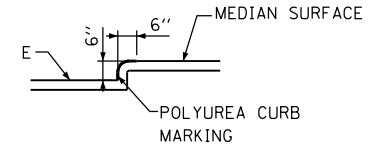
IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
GRADING AND JOINTING PLAN

F.A.P. RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 40
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET NO. GRD-1 OF 1 STA. 170+50 TO STA. 181+30



- PAVEMENT MARKING LEGEND**
- 1 PAVEMENT MARKING - LINE 4" WHITE SOLID
 - 2 PAVEMENT MARKING - LINE 4" WHITE 10' DASH, 30' SKIP
 - 3 PAVEMENT MARKING - DOUBLE LINE 4" YELLOW SOLID
 - 4 PAVEMENT MARKING - LINE 6" WHITE SOLID
 - 5 PAVEMENT MARKING - LINE 8" WHITE SOLID
 - 6 PAVEMENT MARKING - LINE 12" WHITE SOLID
 - 7 PAVEMENT MARKING - LINE 12" YELLOW SOLID
 - 8 PAVEMENT MARKING - LINE 24" WHITE SOLID
 - 9 PAVEMENT MARKING - LETTERS AND SYMBOLS
 - 10 PAVEMENT MARKING - POLYUREA CURB MARKING
 - 11 PAVEMENT MARKING - LINE 6" WHITE 2' DASH 6' SKIP



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GRAEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 1951	DESIGNED - JWB	REVISED -
DRAWN - JWB	REVISED -	
PLOT SCALE = 100.0000' / 1"	CHECKED - RS	REVISED -
PLOT DATE = 3/14/2018 - 8:49:26 AM	DATE - 01/23/2018	REVISED - 03/13/2018

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. PMK-1 OF 1 STA. 165+00 TO STA. 187+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	41
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

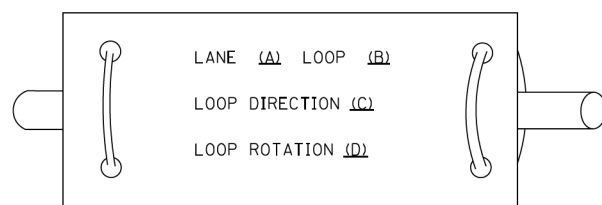
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED		
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD				
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE				
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS				
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER				
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"				
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED				
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)				
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C				
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE				
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED				
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 	SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F				
WOOD POLE			INTERSECTION ITEM							
GUY WIRE			REMOVE ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE				
SIGNAL HEAD			RELOCATE ITEM							
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM							
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED							
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED							
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED							
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I	 	 					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP							
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR							
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR							
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR							
CONFIRMATION BEACON			WIRELESS ACCESS POINT							
WIRELESS INTERCONNECT										
WIRELESS INTERCONNECT RADIO REPEATER										

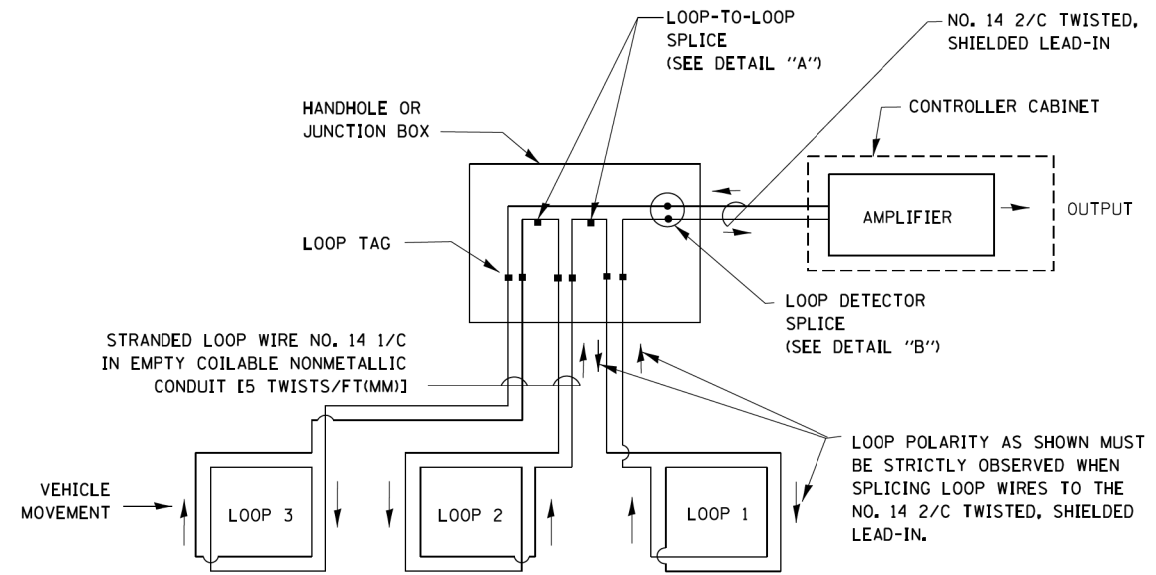
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

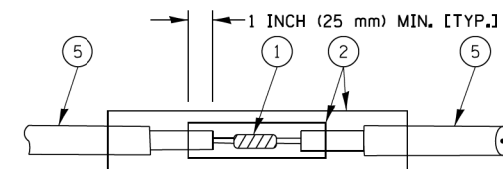


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

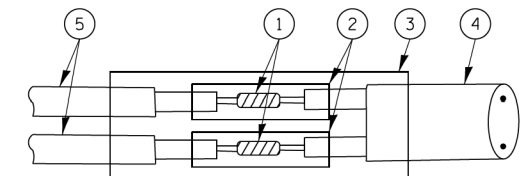


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

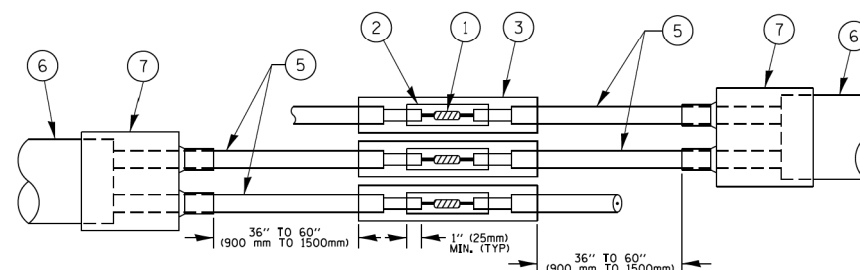


DETAIL "A"
LOOP-TO-LOOP SPLICE

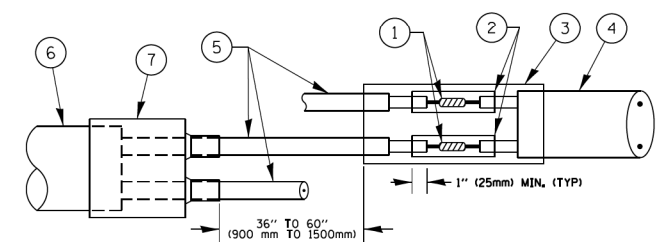


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

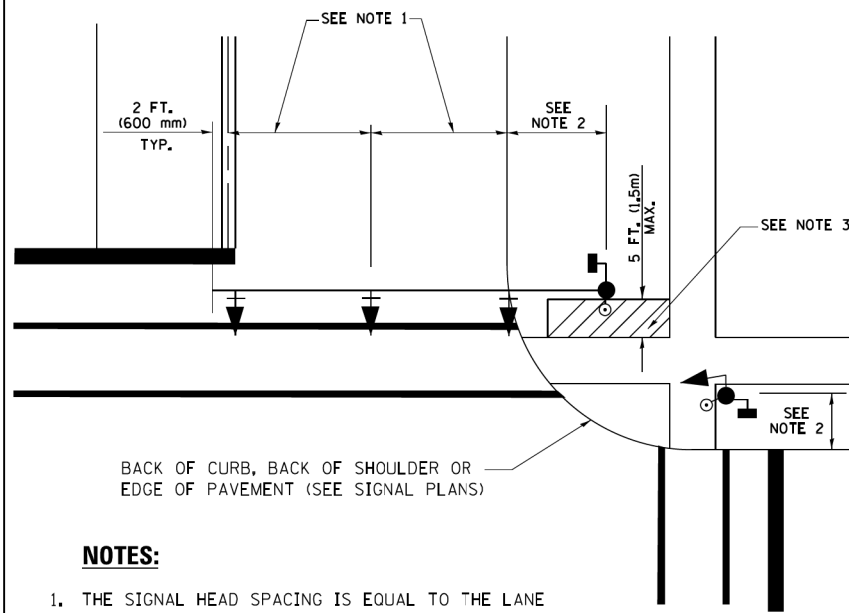
PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED - DAD	REVISED -										
		DATE - 10-28-09	REVISED -										

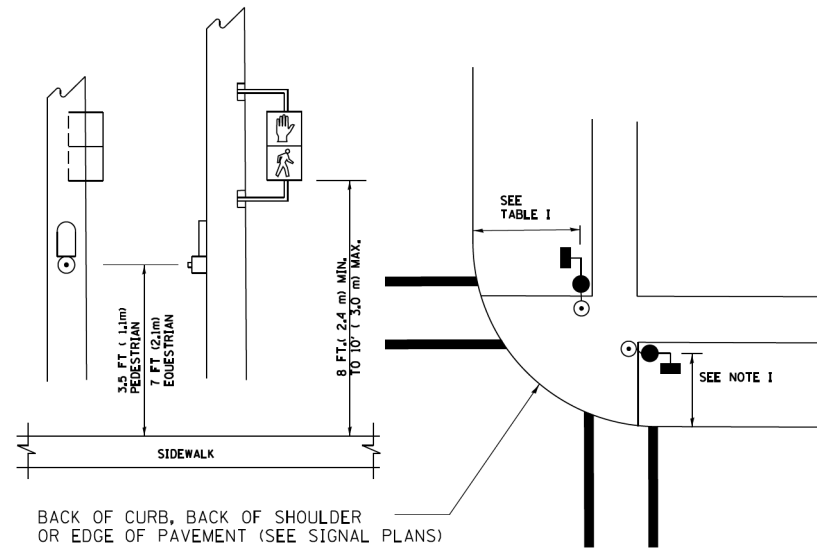
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

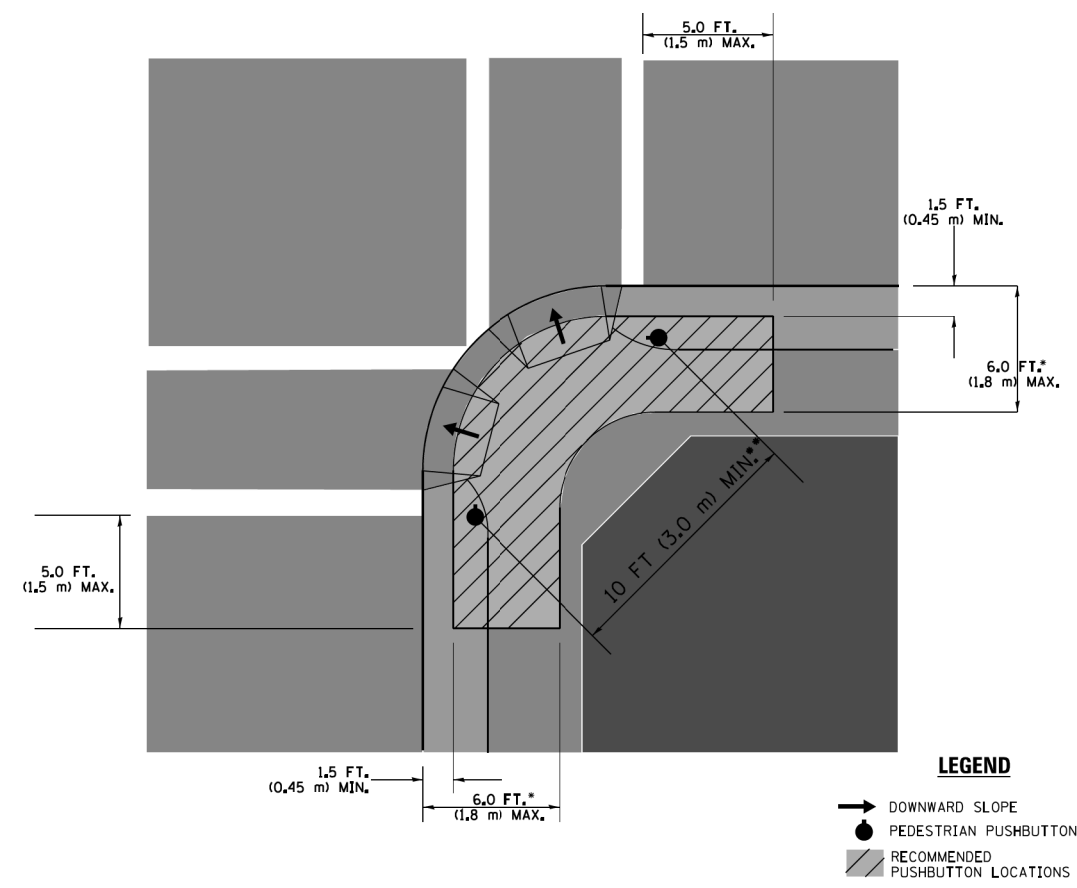
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

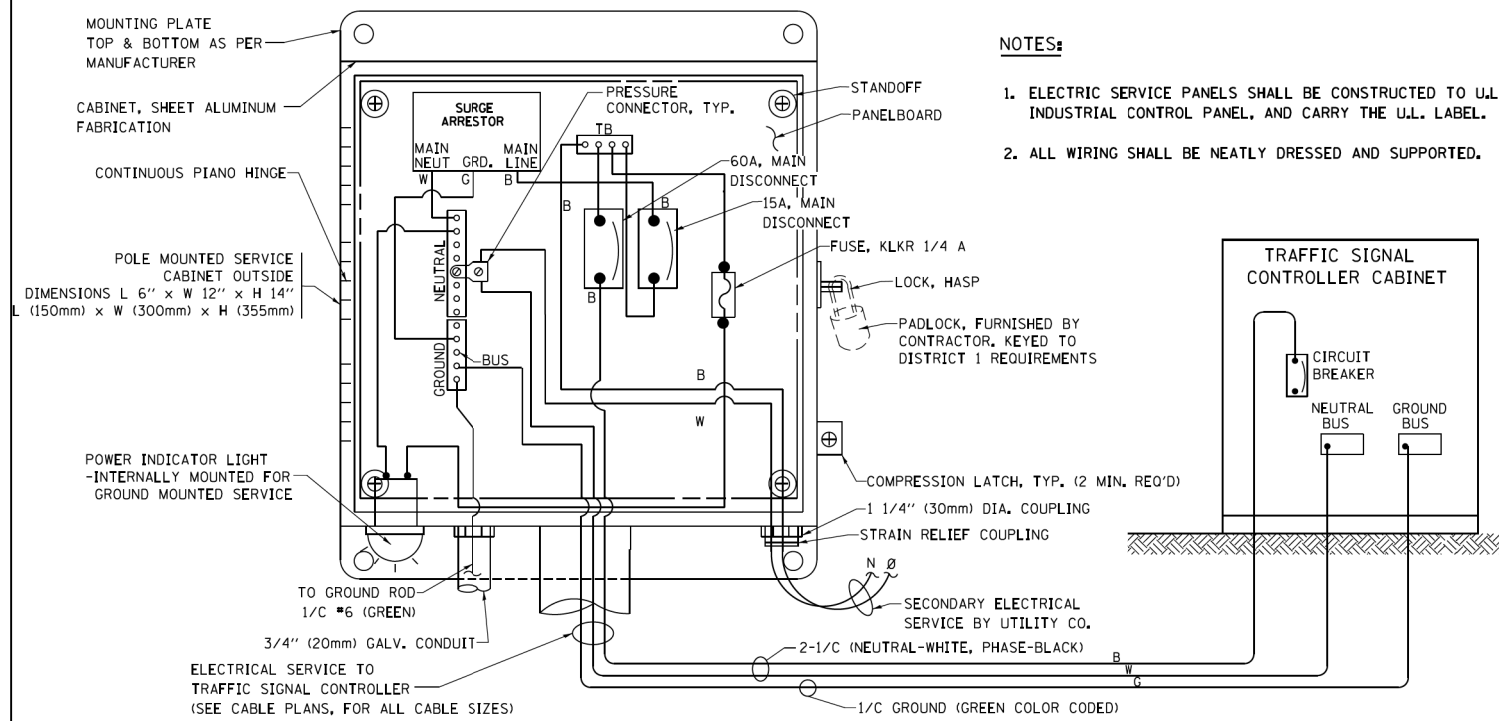
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

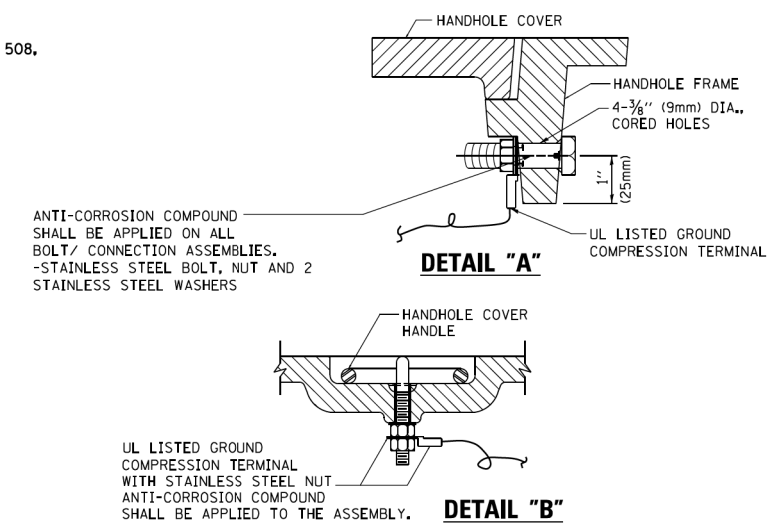
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

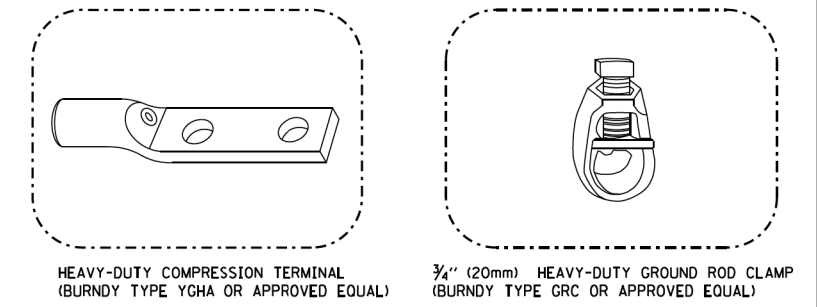
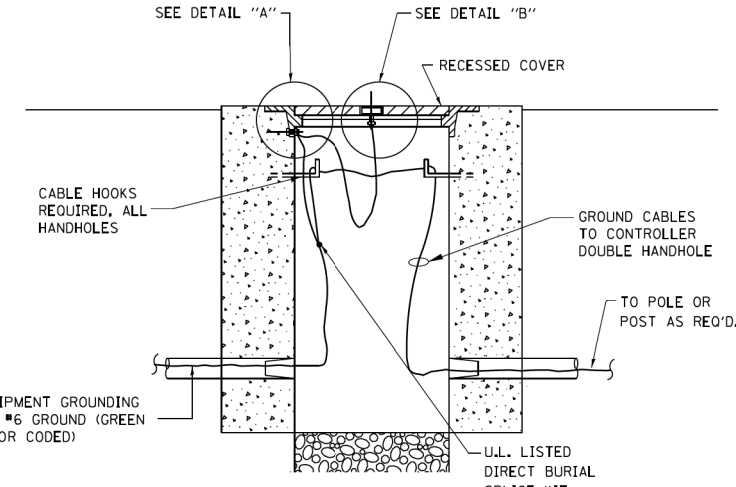


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

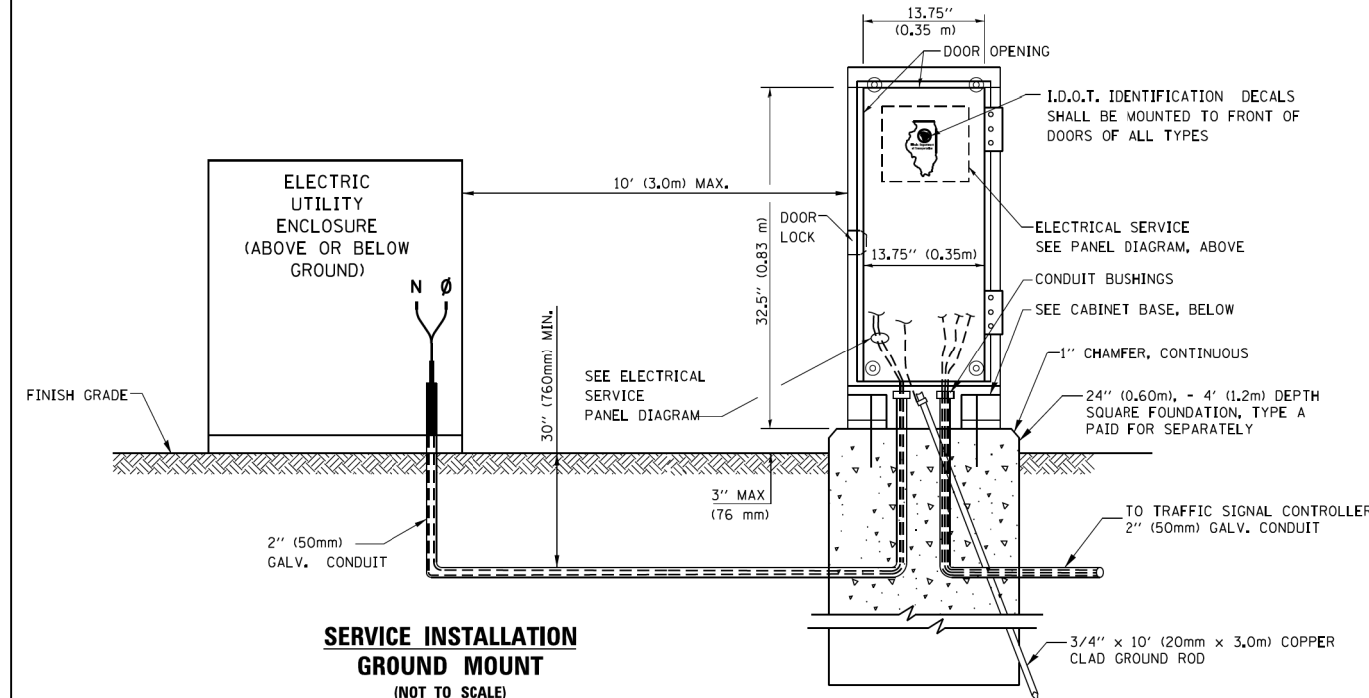
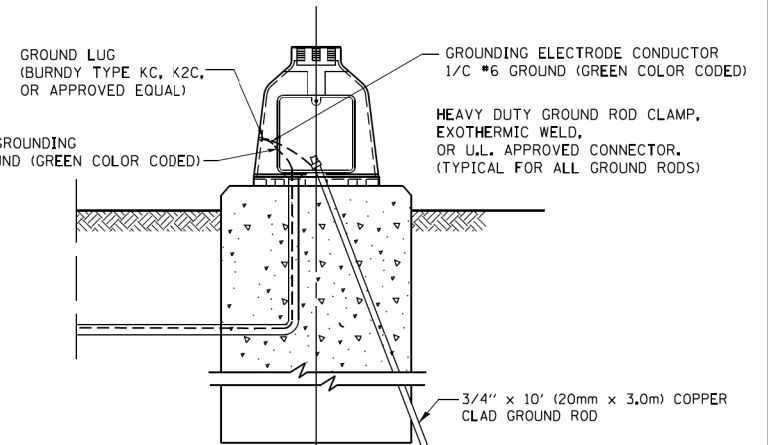
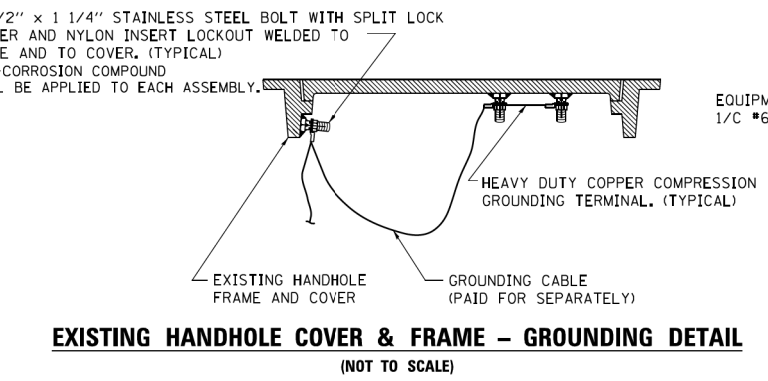


**NOTES:
GROUNDING SYSTEM**

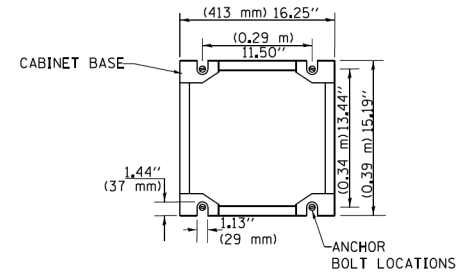
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN ENCLOSED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



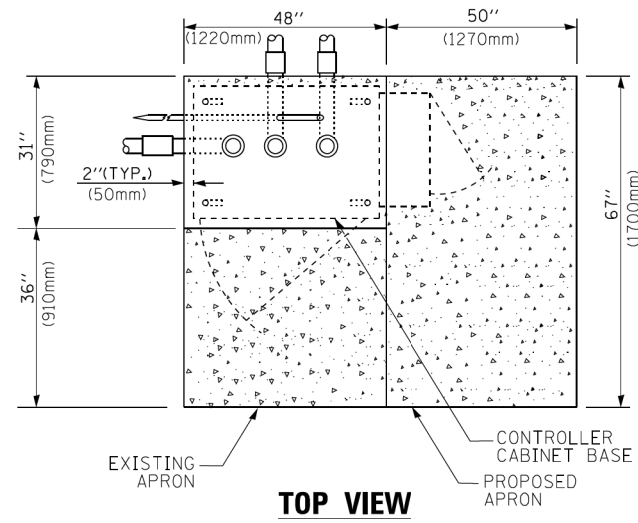
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



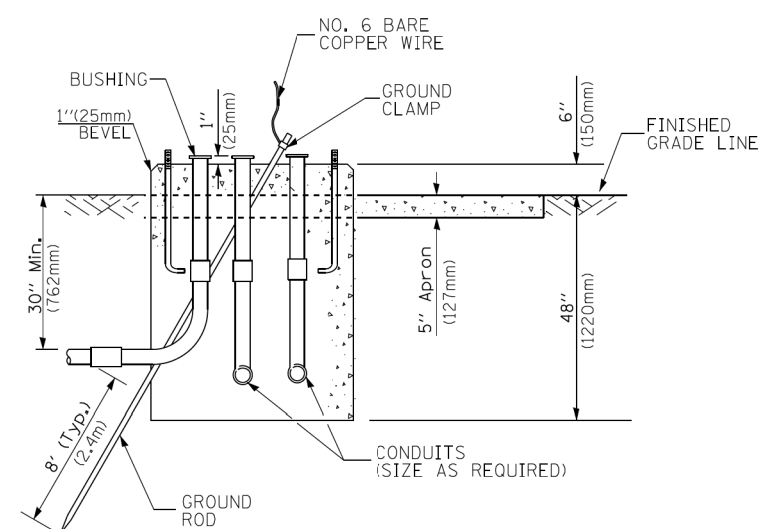
**CABINET – BASE BOLT PATTERN
(NOT TO SCALE)**



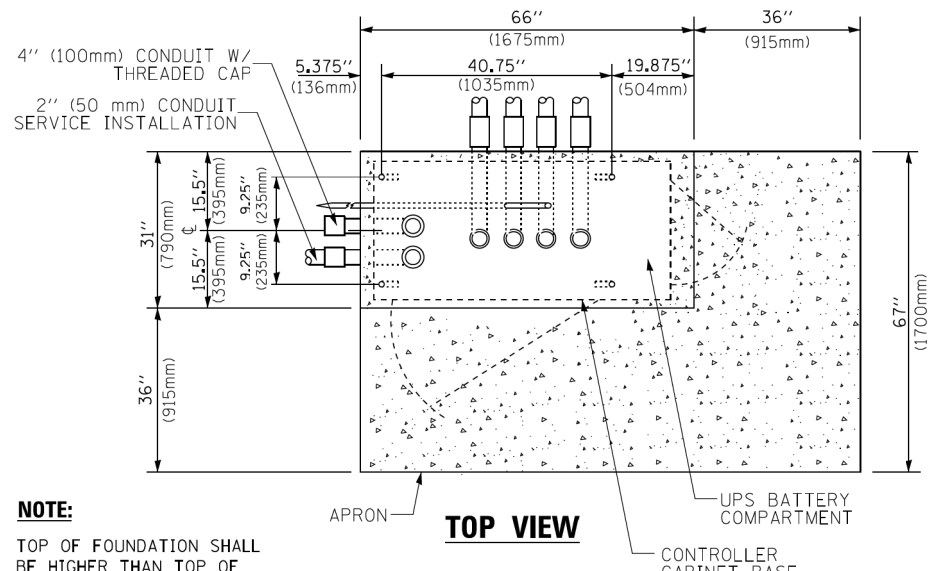
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ca:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	TS-05			138	45
		CHECKED - DAD	REVISED -										
		DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TOP VIEW

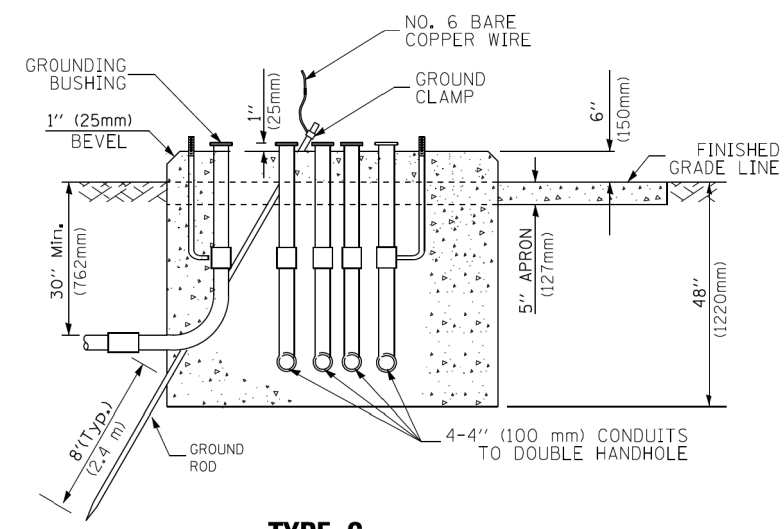


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

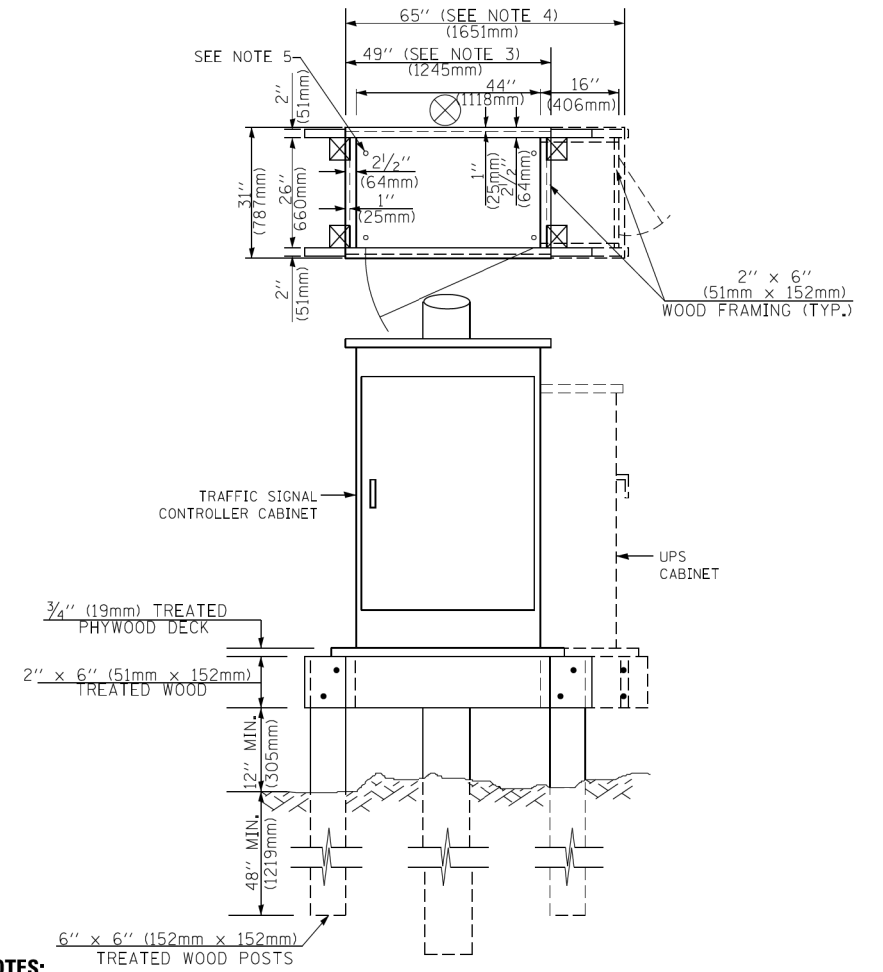


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

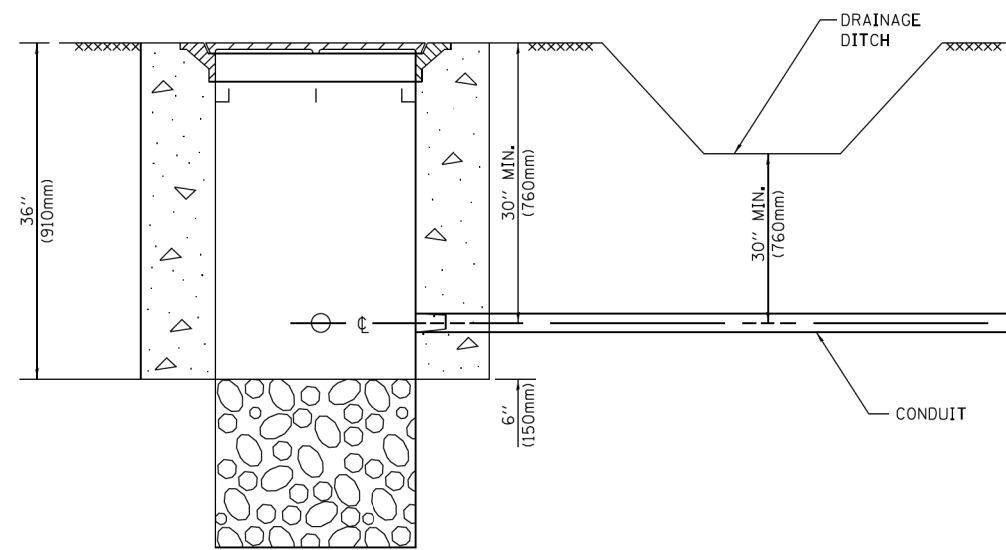
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

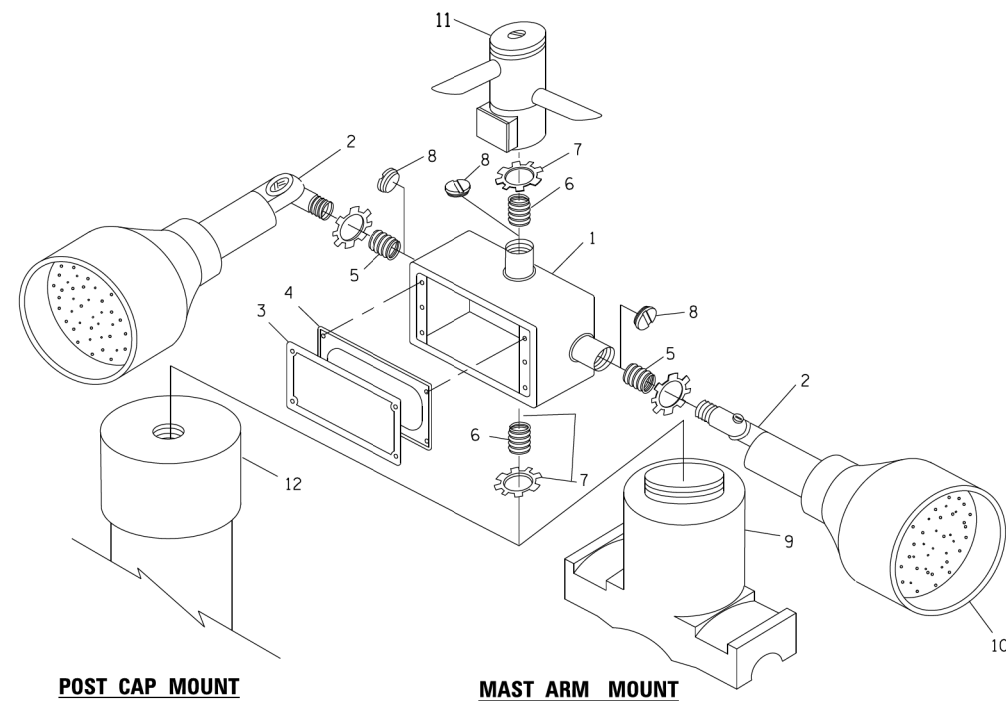
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

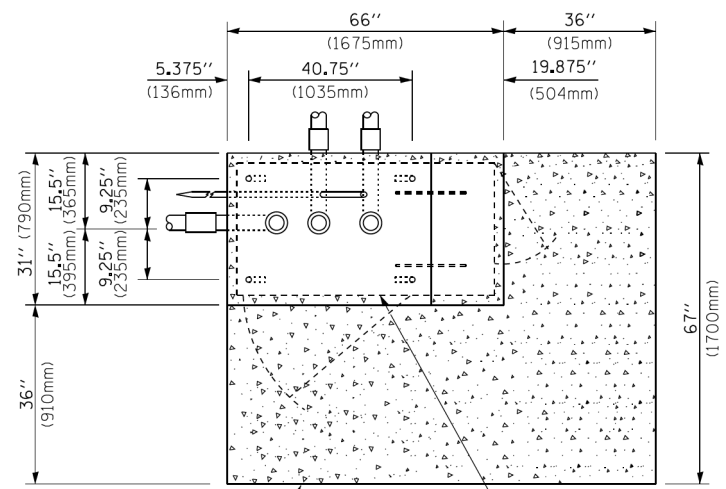
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



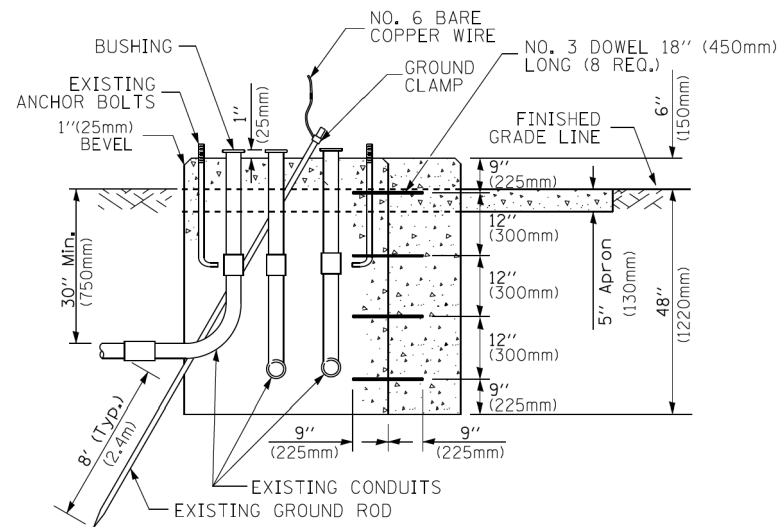
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

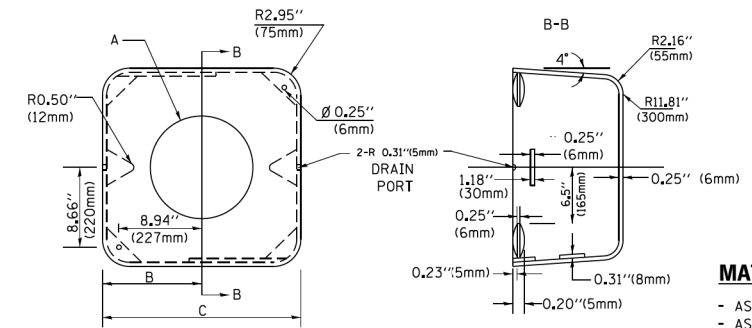


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5,4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

	A	B	C	HEIGHT	WEIGHT
VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)	
VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)	
VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)	
VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)	

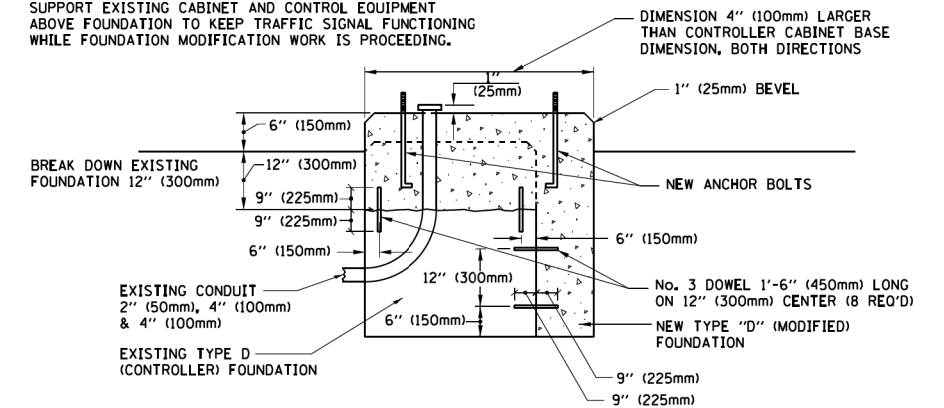
SHROUD

NOTES:

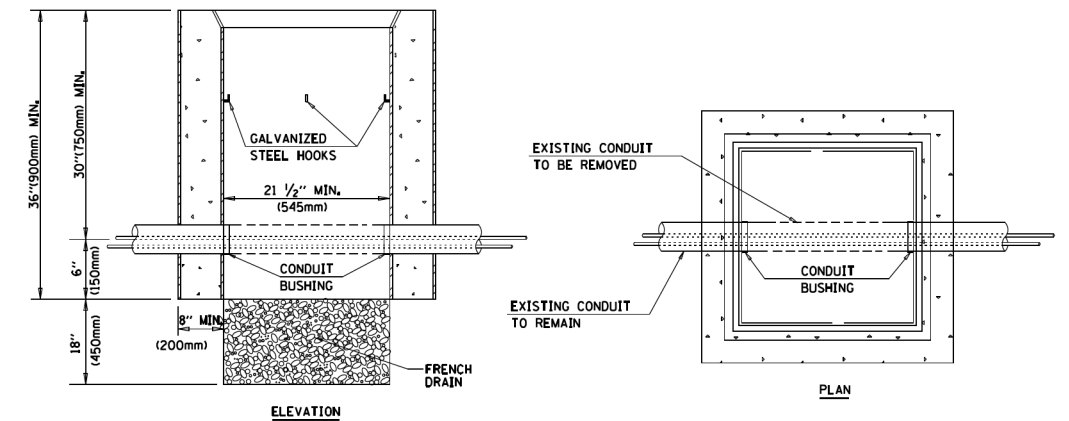
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

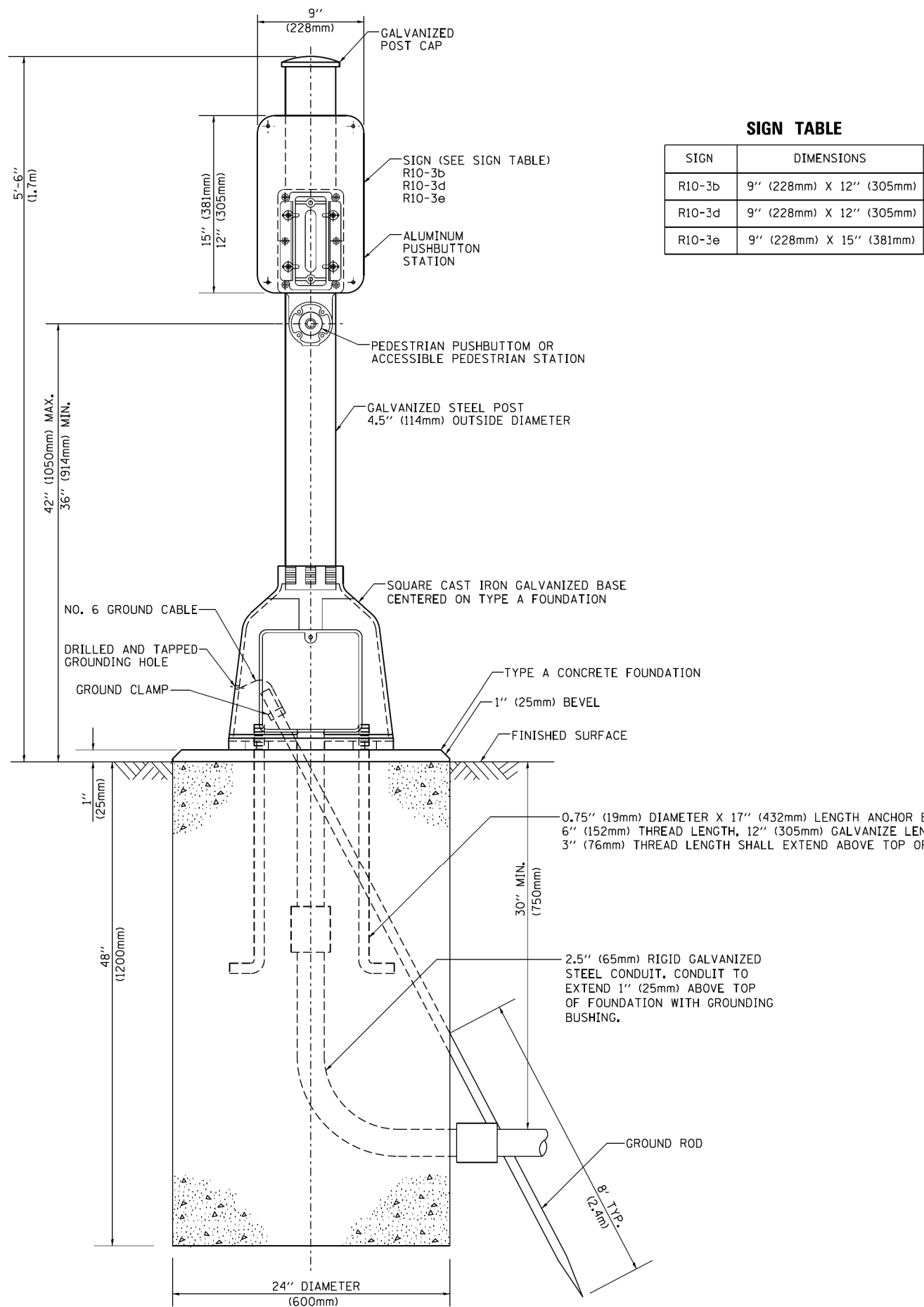
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

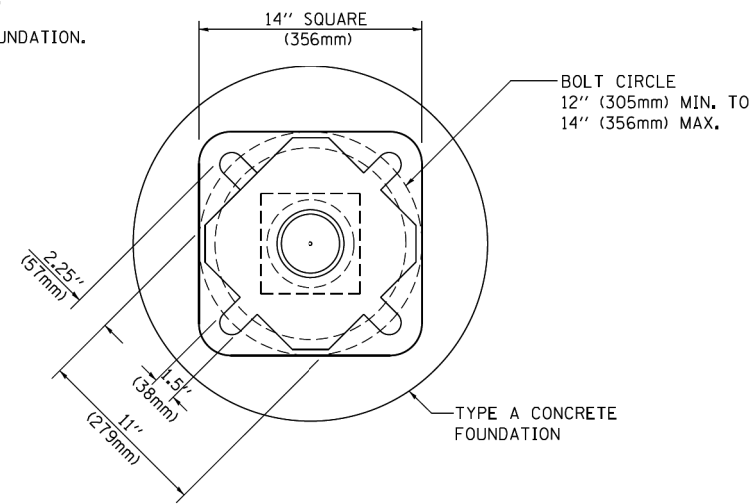
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05		138	47
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
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PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

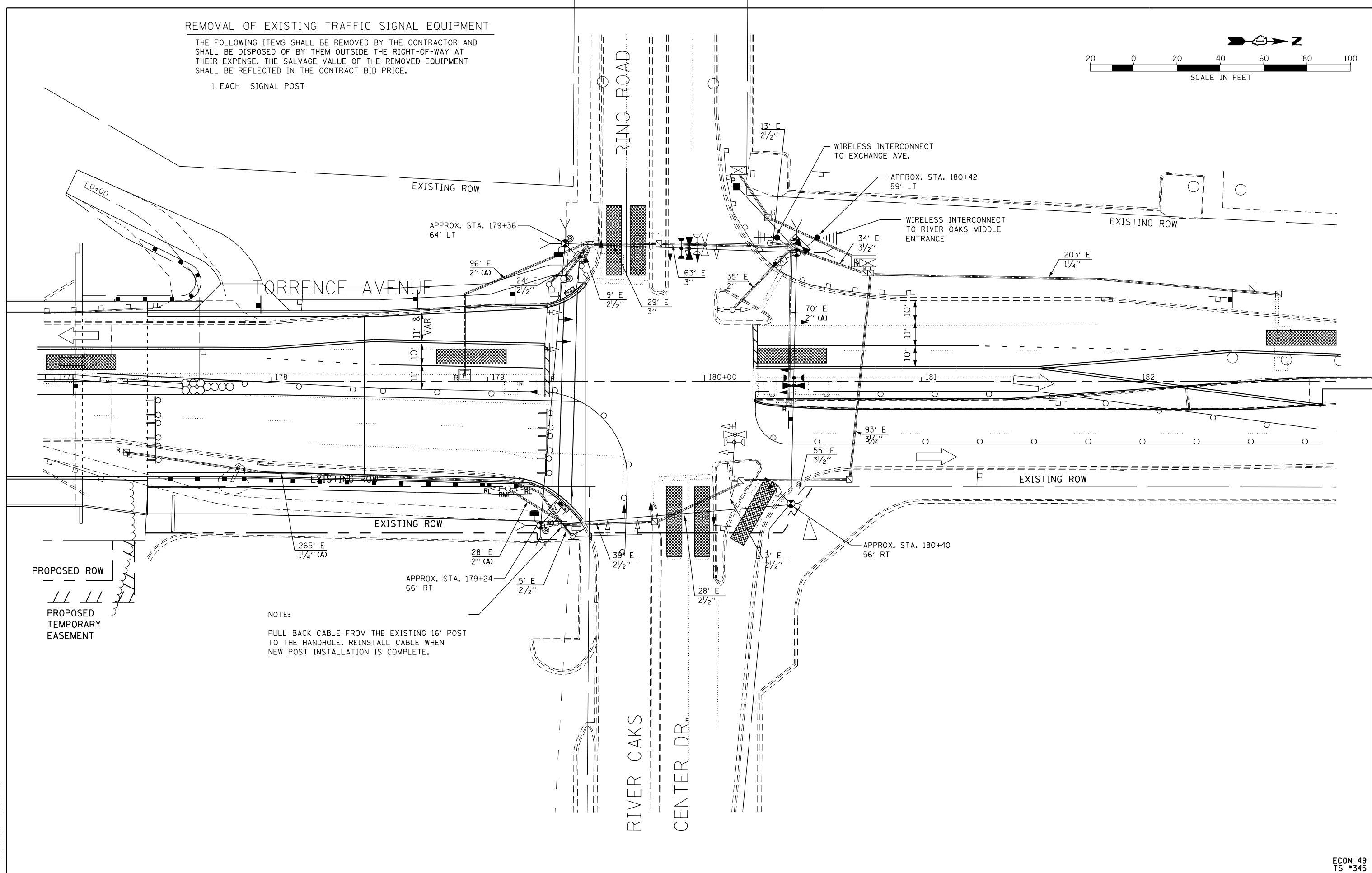
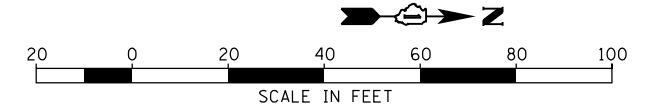
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			138	48
TS-05			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

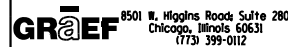
1 EACH SIGNAL POST



NOTE:

PULL BACK CABLE FROM THE EXISTING 16' POST TO THE HANDHOLE. REINSTALL CABLE WHEN NEW POST INSTALLATION IS COMPLETE.

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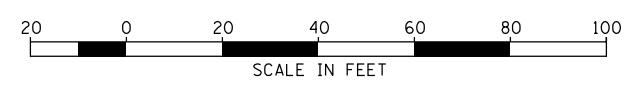
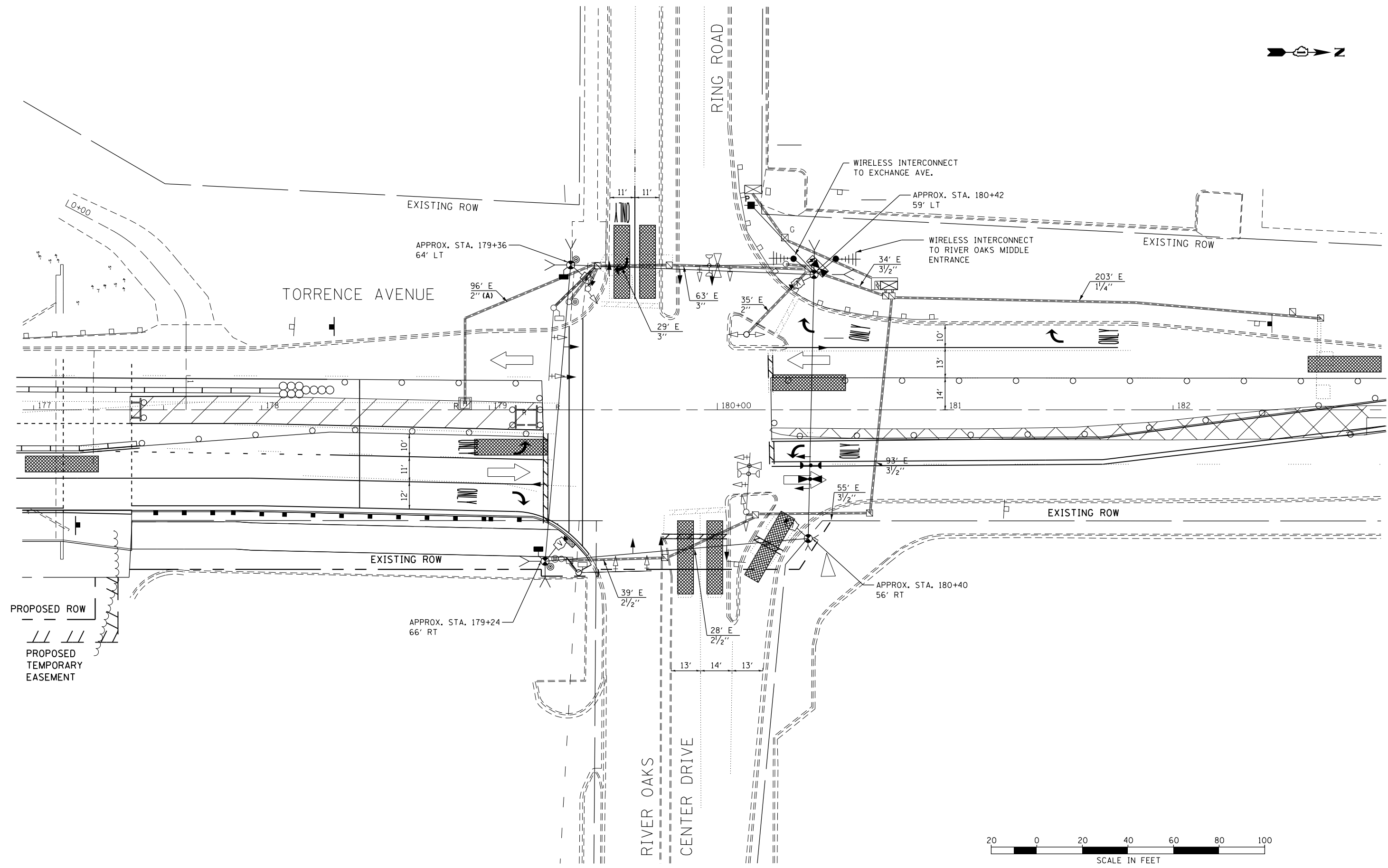
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL, STAGE 1 & REMOVAL PLAN
IL 83/US 6 (TORRENCE AVE.) AT RING RD./RIVER OAKS CENTER DR.**

SCALE: 1" = 20' SHEET NO. 1 OF 7 AT STA. 179+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	49
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS #345



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GRAEF 8501 N. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

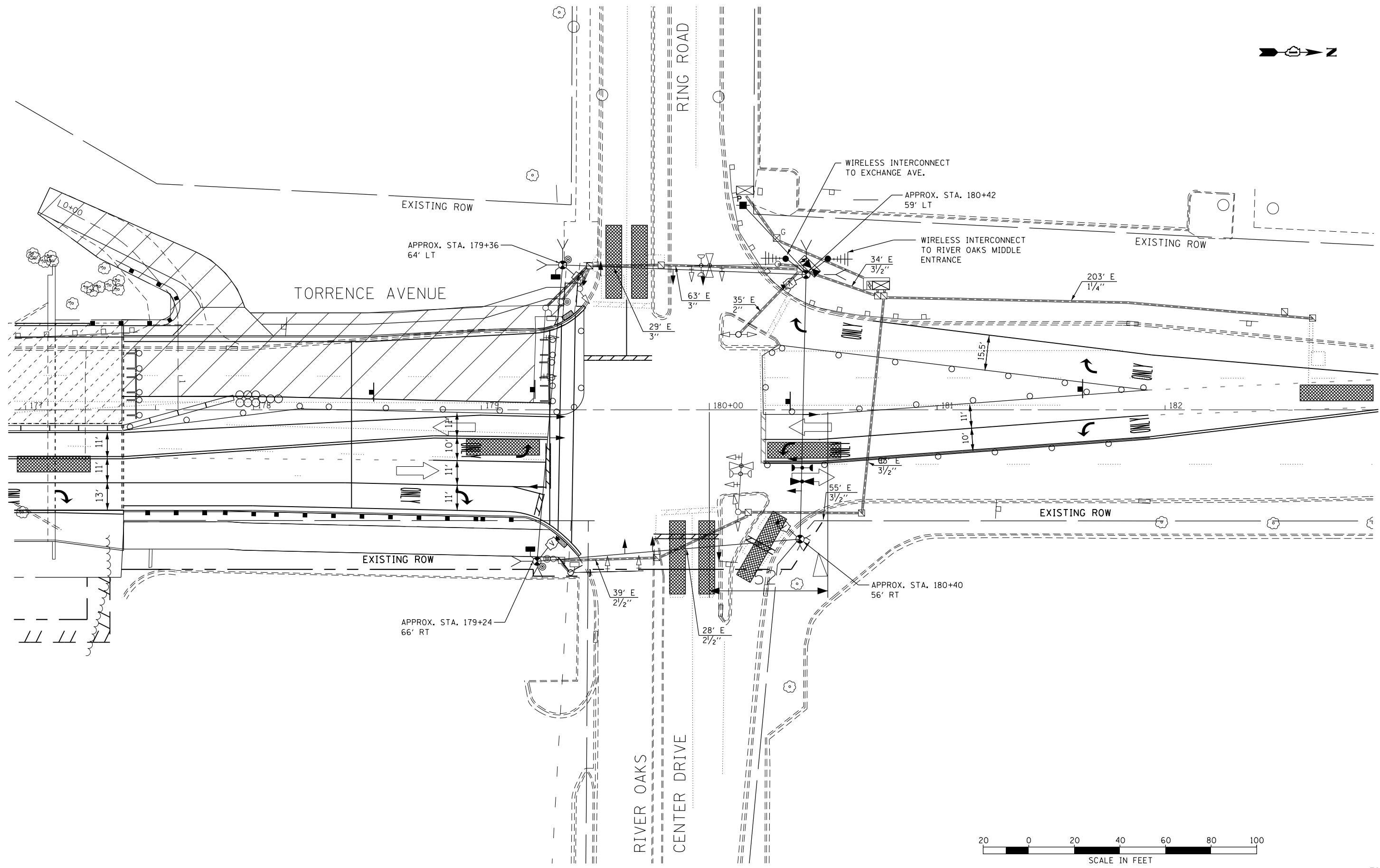
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, STAGE 1A
IL 83/US 6 (TORRENCE AVE.) AT RING RD/RIVER OAKS CENTER DR.
 SCALE: 1" = 20' SHEET NO. 2 OF 7 AT STA. 179+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	50
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS #345



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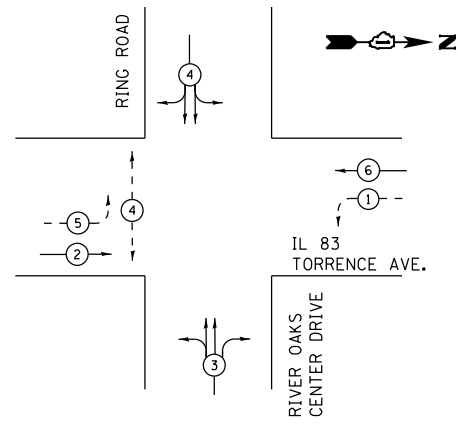
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, STAGE 2
IL 83/US 6 (TORRENCE AVE.) AT RING RD/RIVER OAKS CENTER DR.
 SCALE: 1" = 20' SHEET NO. 3 OF 7 AT STA. 179+70

F.A.P. RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 51
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS #345

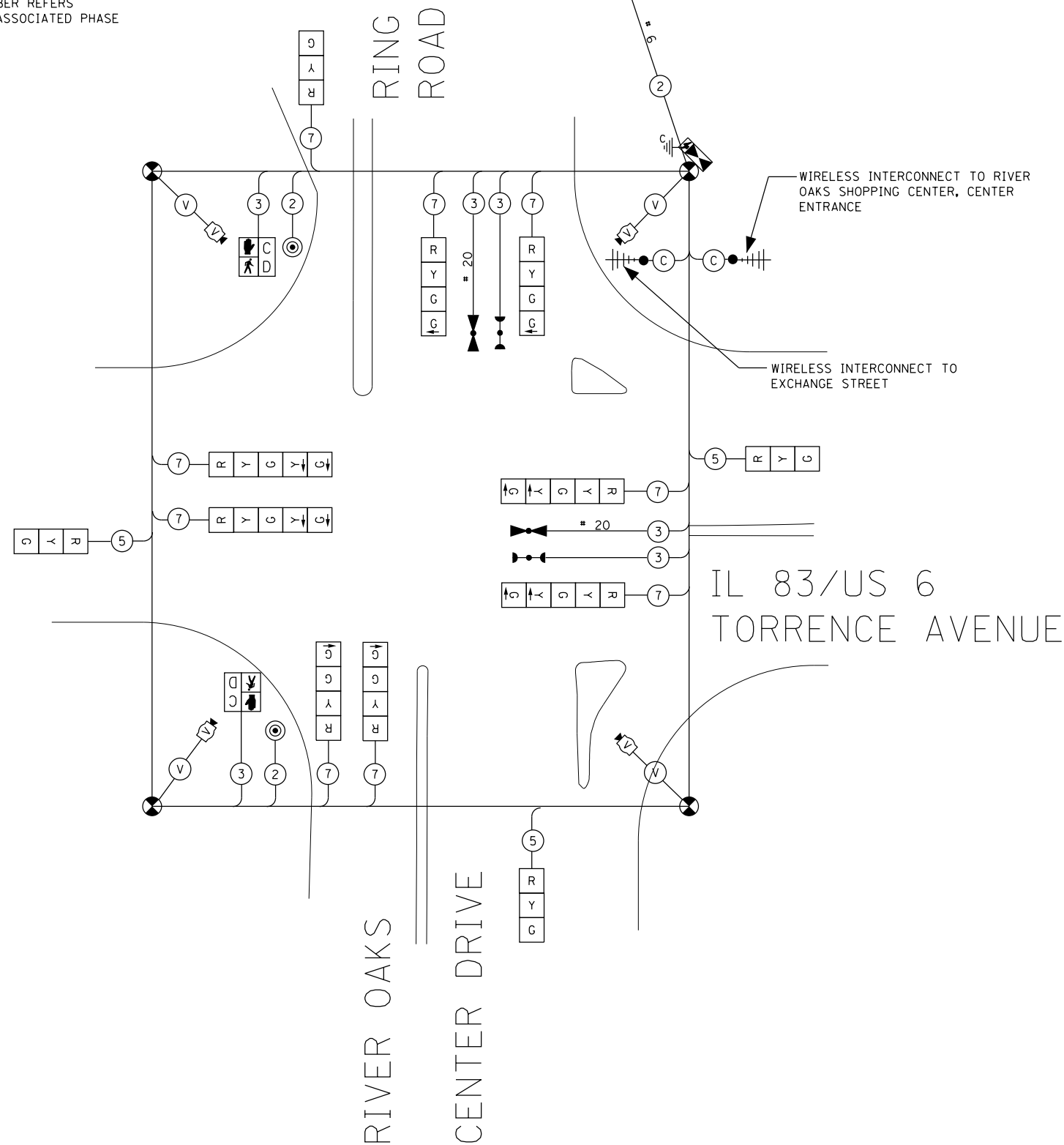
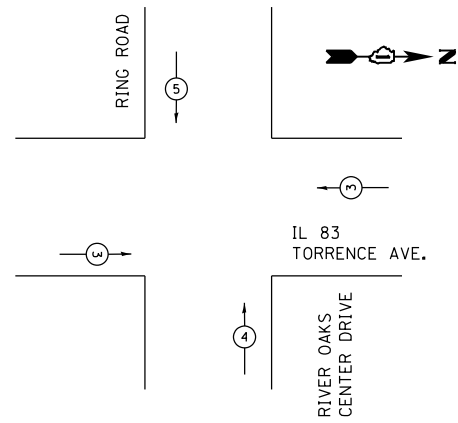
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- — PROTECTED PHASE
- — PROTECTED/PERMITTED PHASE
- — PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				469.8

ENERGY COSTS TO:
 CITY OF CALUMET CITY
 204 PULASKI ROAD
 CALUMET CITY, IL 60409
 ENERGY SUPPLY: CONTACT: WARREN TAYLOR
 PHONE: (708) 235-2328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

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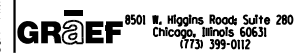
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

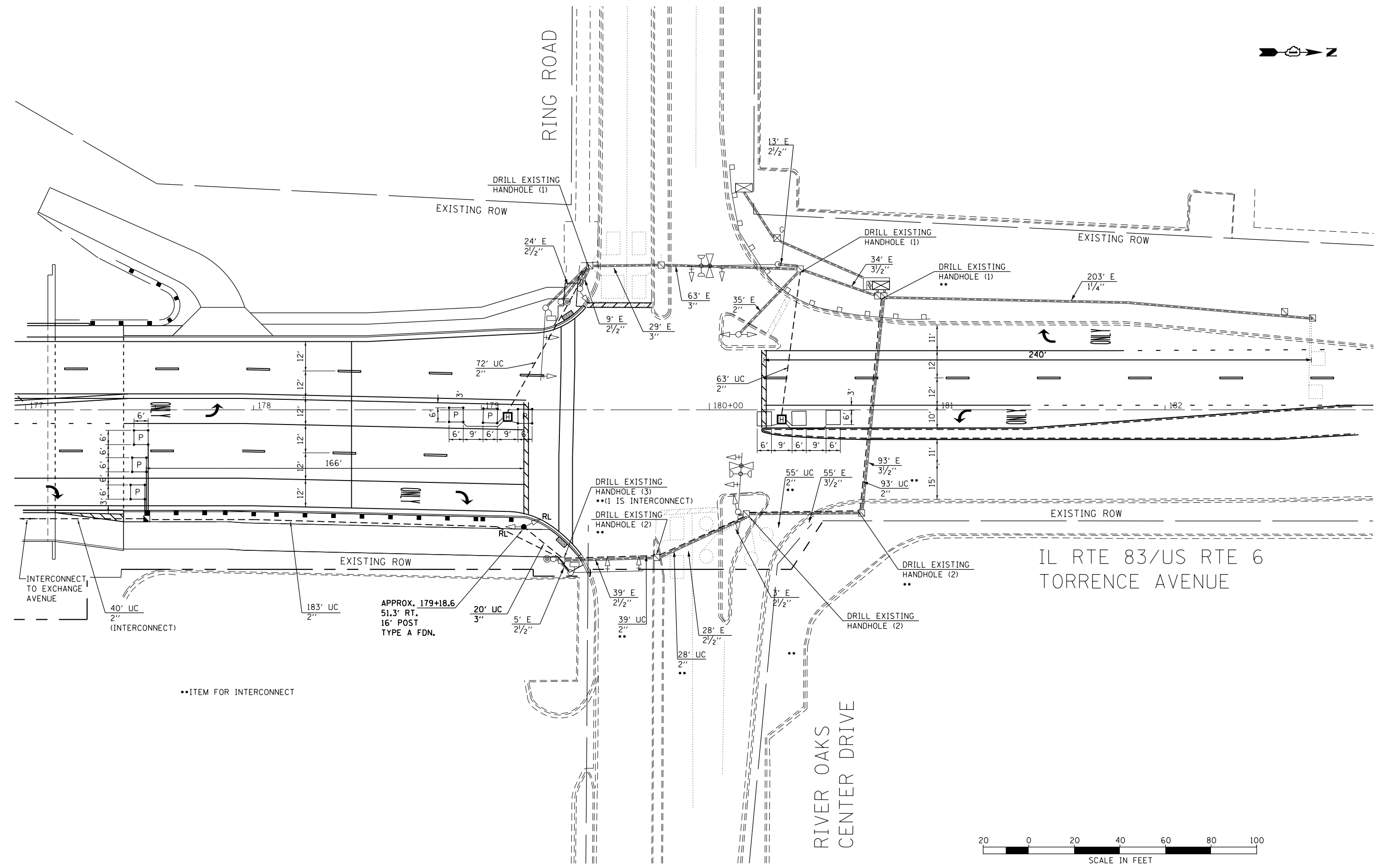
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
 & EMERGENCY VEHICLE PREEMPTION ALL STAGES
 IL 83/US 6 (TORRENCE AVENUE) & RING RD./RIVER OAKS SHOPPING CENTER DR.
 SCALE: NONE SHEET NO. 4 OF 7 AT STA. 179+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	52
CONTRACT NO. 60K78				

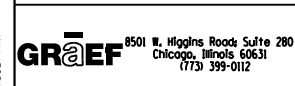
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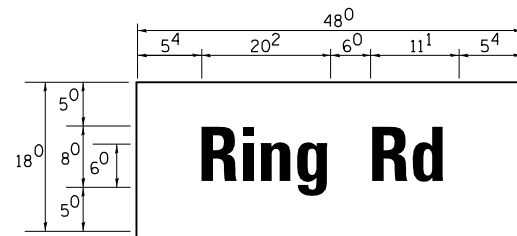
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 83/US 6 (TORRENCE AVE.) AT RING RD/RIVER OAKS CENTER DR.
 SCALE: 1" = 20' SHEET NO. 5 OF 7 AT STA. 179+70

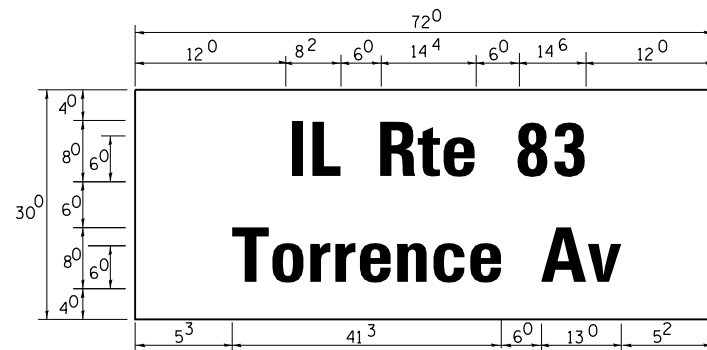
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	53
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS #345

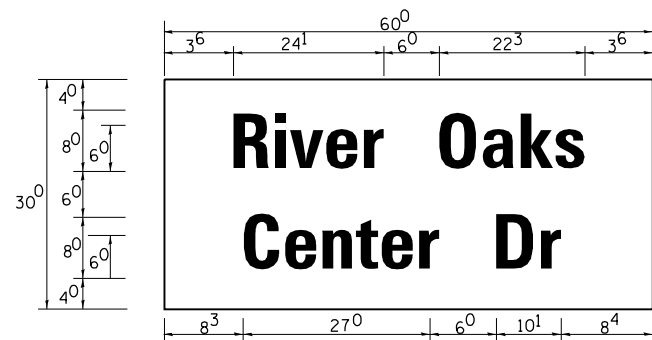
SIGN PANEL – TYPE 1 OR TYPE 2



___ Sq. M. each
 6 Sq. Ft. each
 2 Required
 Design Series D



___ Sq. M. each
 15 Sq. Ft. each
 2 Required
 Design Series D



___ Sq. M. each
 12.5 Sq. Ft. each
 2 Required
 Design Series D

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

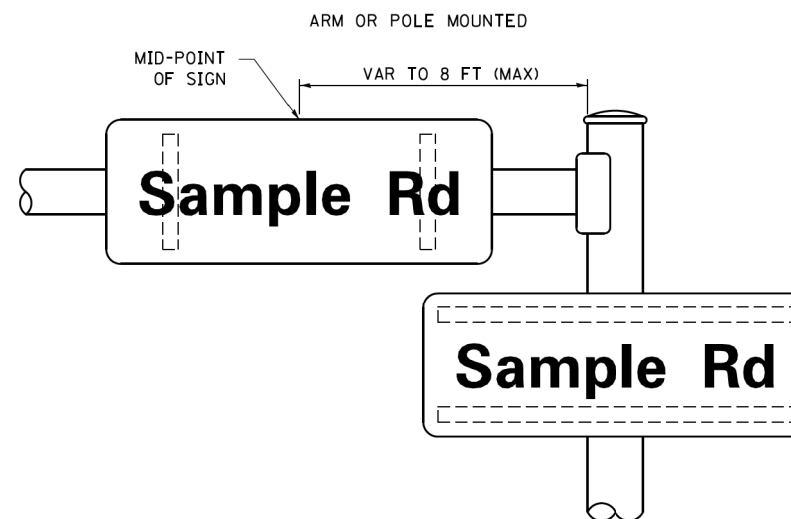
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

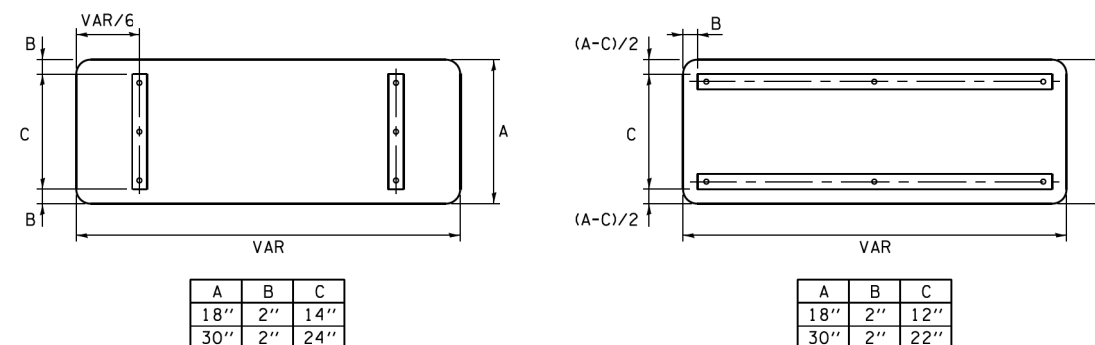
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS

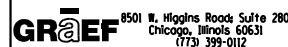


STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"			FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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 DRAWN - BDMG
 CHECKED - DRG/DAD
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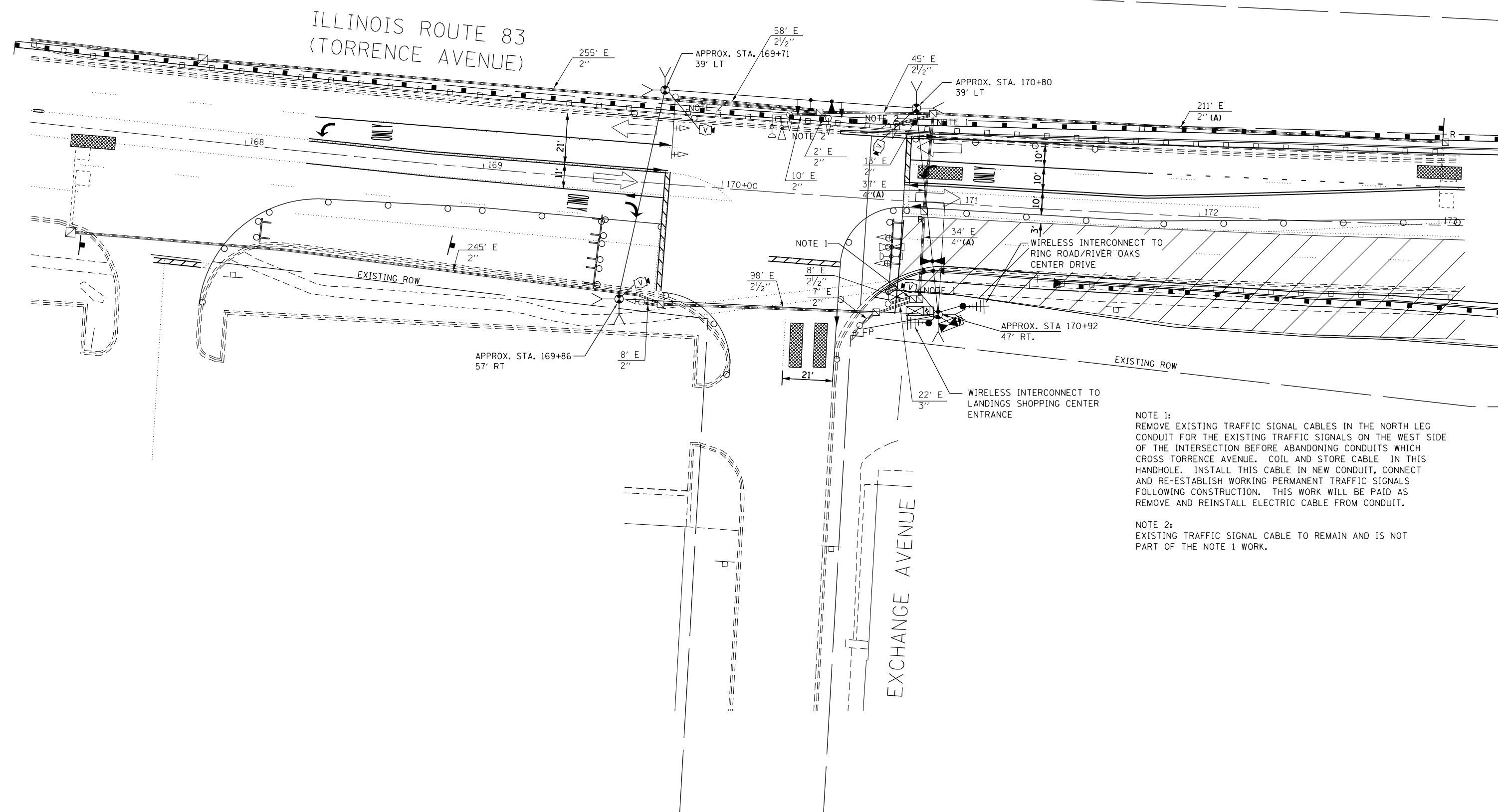
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 CHECKED - DRG/DAD
 DATE - 03-12-2018
 REVISED - DAG 10/28/09
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) OVER LITTLE CALUMET RIVER
 MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	55
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



NOTE 1:
 REMOVE EXISTING TRAFFIC SIGNAL CABLES IN THE NORTH LEG CONDUIT FOR THE EXISTING TRAFFIC SIGNALS ON THE WEST SIDE OF THE INTERSECTION BEFORE ABANDONING CONDUITS WHICH CROSS TORRENCE AVENUE. COIL AND STORE CABLE IN THIS HANDHOLE. INSTALL THIS CABLE IN NEW CONDUIT, CONNECT AND RE-ESTABLISH WORKING PERMANENT TRAFFIC SIGNALS FOLLOWING CONSTRUCTION. THIS WORK WILL BE PAID AS REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT.

NOTE 2:
 EXISTING TRAFFIC SIGNAL CABLE TO REMAIN AND IS NOT PART OF THE NOTE 1 WORK.

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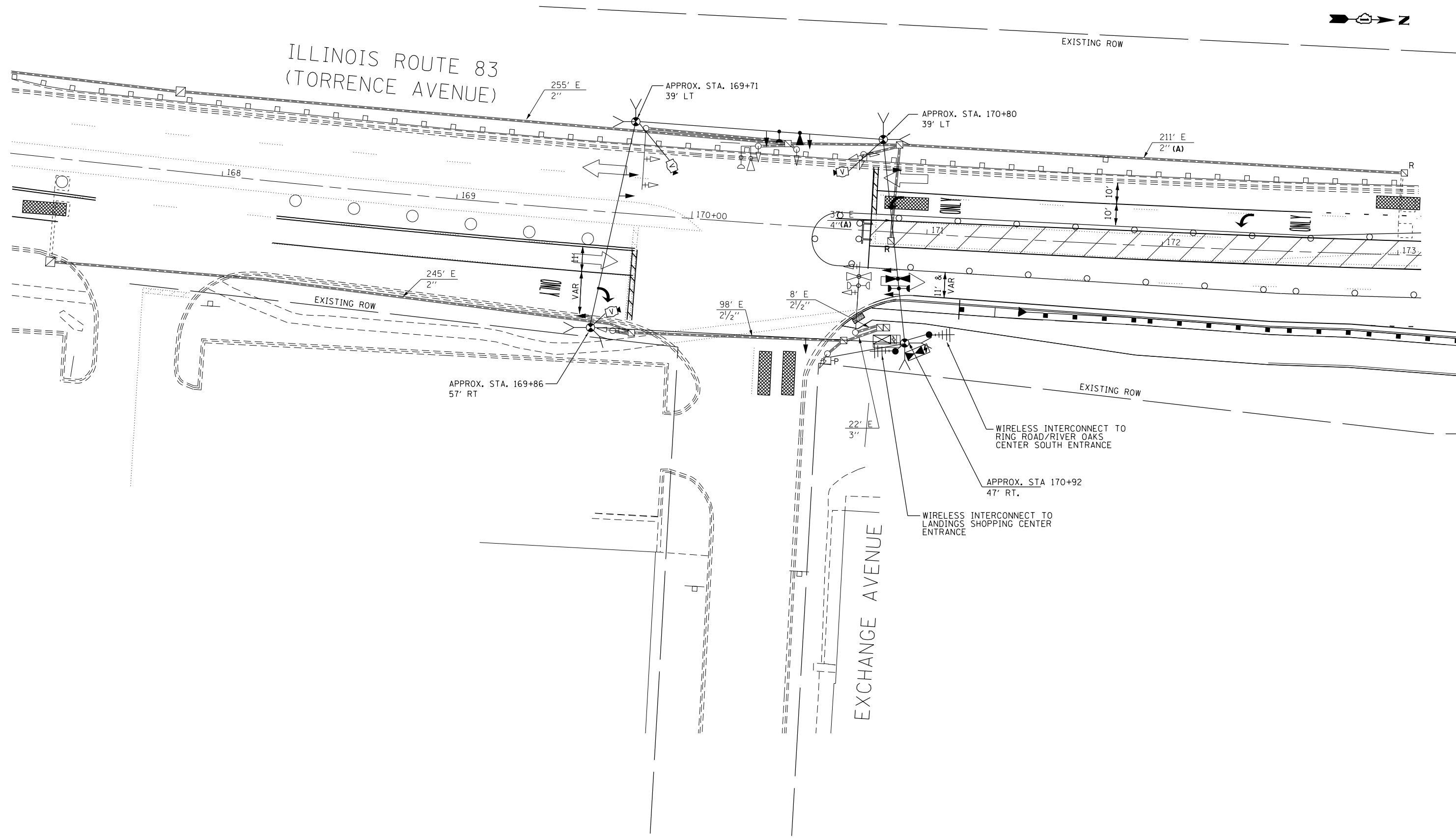
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION, STAGE 1 AND REMOVAL PLAN
 IL 83/US 6 (TORRENCE AVENUE) & EXCHANGE STREET**

SCALE: 1" = 20' SHEET NO. 1 OF 7 SHEETS AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	56
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

**ECON 49
 TS#20955**



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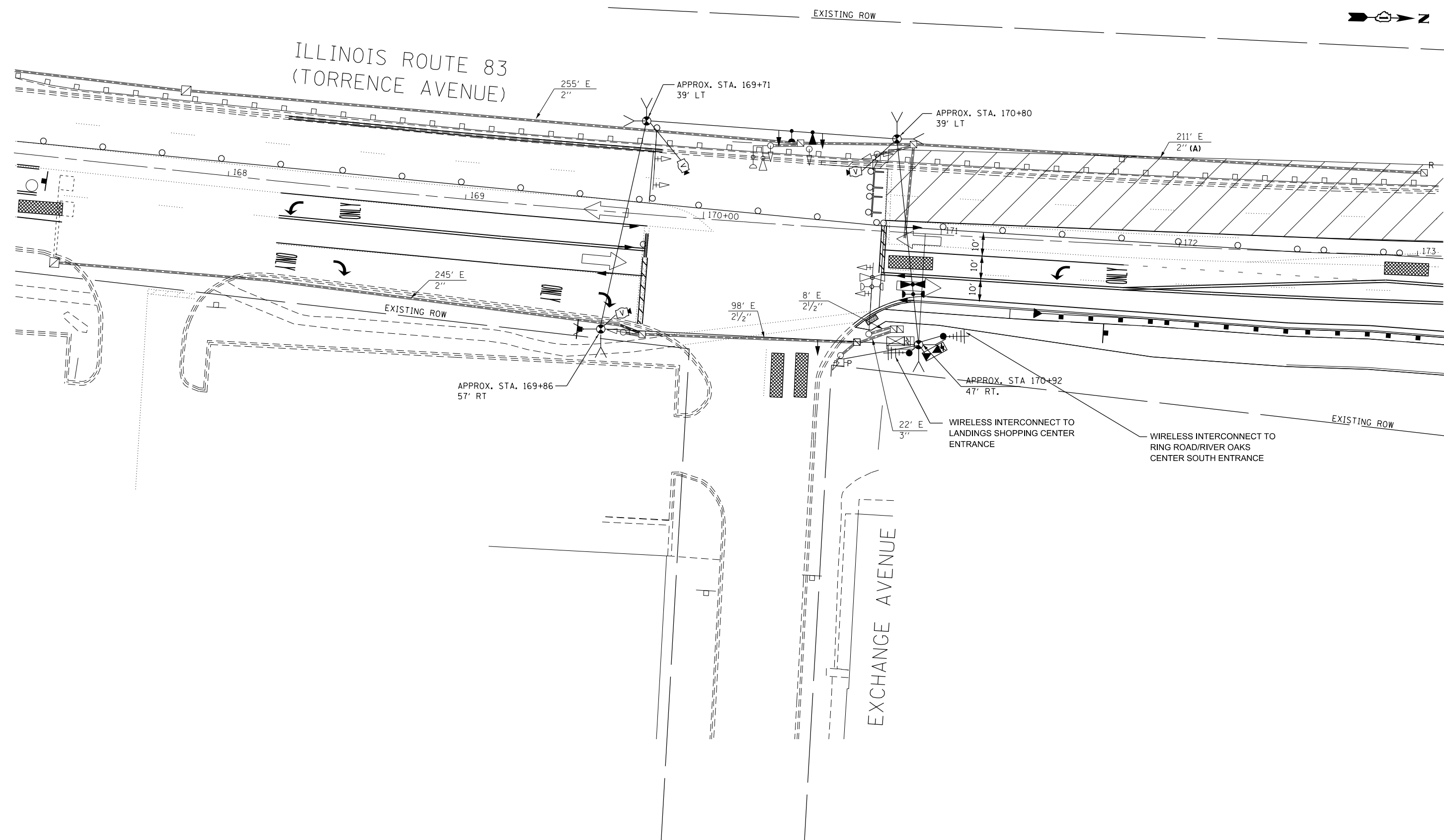
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, STAGE 1A
IL 83/US 6 (TORRENCE AVENUE) & EXCHANGE STREET

SCALE: 1" = 20' SHEET NO. 2 OF 7 SHEETS AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	57
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS#20955



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

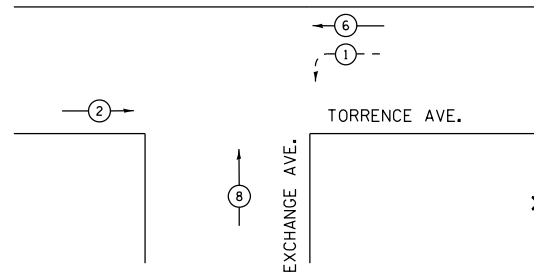
TEMPORARY TRAFFIC SIGNAL, STAGE 2
IL 83/US 6 (TORRENCE AVENUE) & EXCHANGE STREET

SCALE: 1"=20' SHEET NO. 3 OF 7 SHEETS AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	58
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49
TS#20955

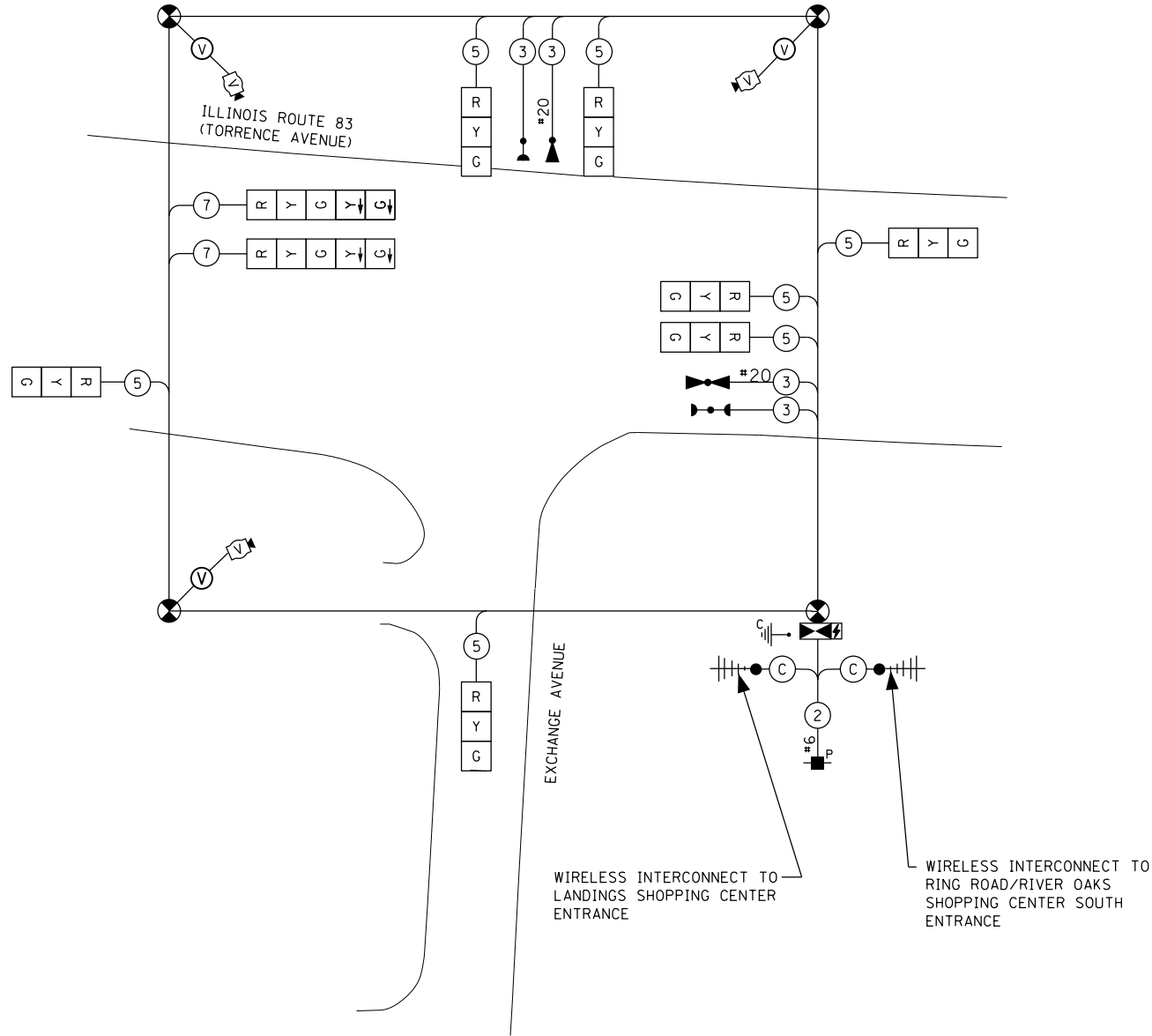
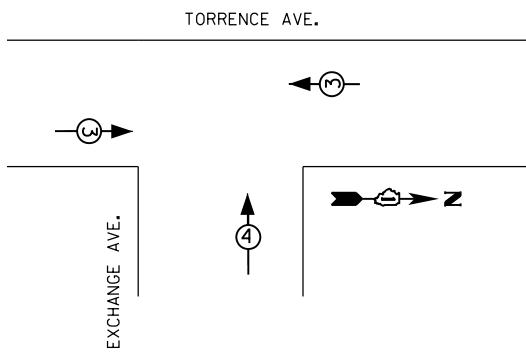
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				386.1

ENERGY COSTS TO:

CITY OF CALUMET CITY
204 PULASKI ROAD
CALUMET CITY, IL 60409

ENERGY SUPPLY: CONTACT: WARREN TAYLOR
PHONE: (708) 235-2328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



USER NAME = 1951	DESIGNED - JWb	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - JWb	REVISED -
PLOT DATE = 3/23/2018 - 10:29:01 AM	CHECKED - RS	REVISED -
	DATE - 03/23/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM & EMERGENCY VEHICLE PREEMPTION - ALL STAGES
IL 83/US 6 (TORRENCE AVENUE) & EXCHANGE STREET

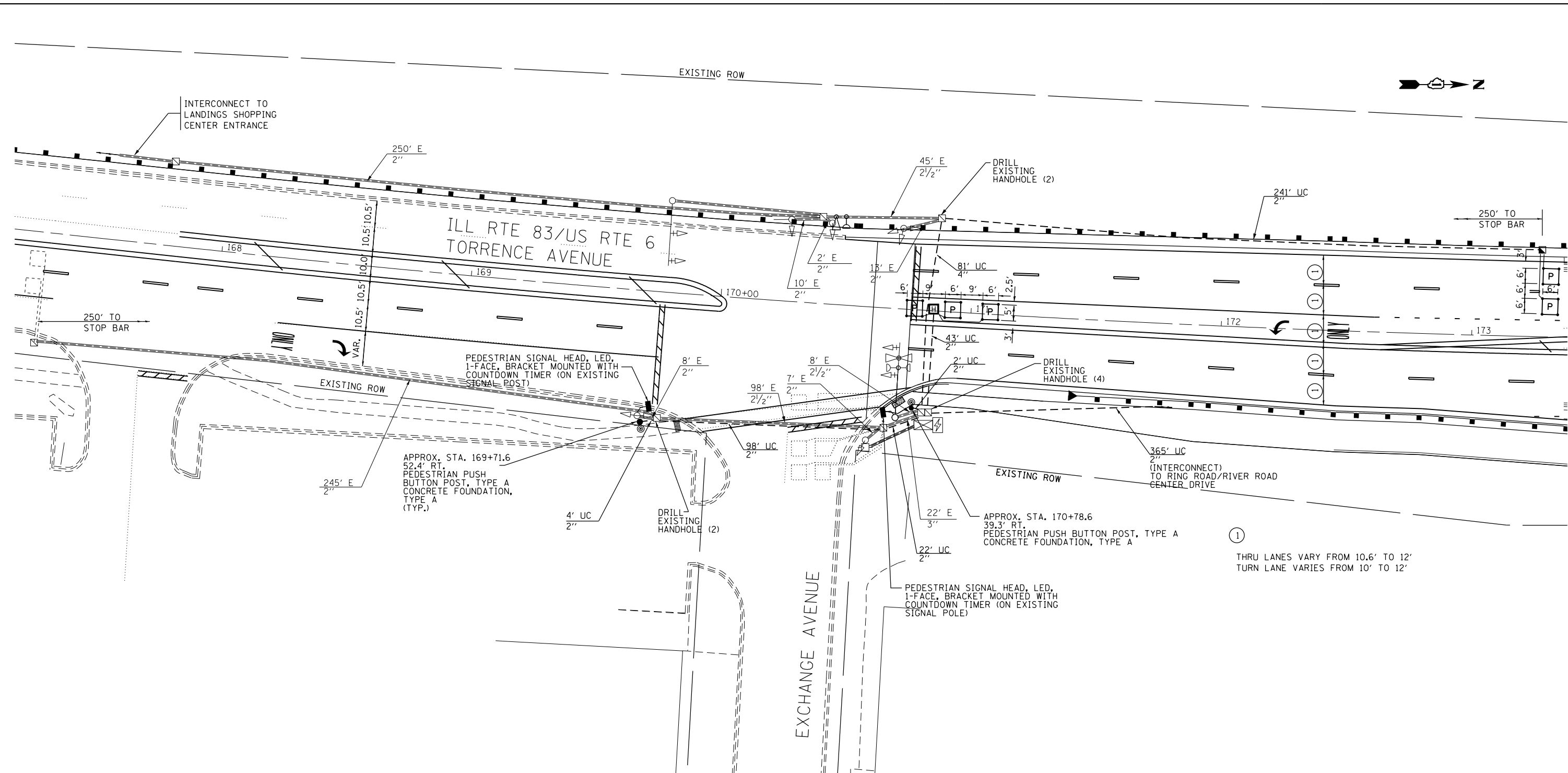
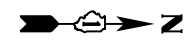
SCALE: NONE SHEET NO. 4 OF 7 SHEETS AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	59
CONTRACT NO. 60K78				

ECON 49
TS #20955

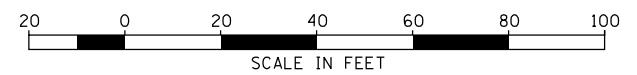
ILLINOIS FED. AID PROJECT

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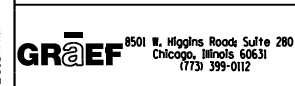


①
THRU LANES VARY FROM 10.6' TO 12'
TURN LANE VARIES FROM 10' TO 12'

NOTE:
THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE 'ECONOLITE' TO MATCH
THE EXISTING ADJACENT SYSTEM



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PLOT DATE = 3/23/2018 10:29:51 AM	DATE - 03/23/2018	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL 83US 6 (TORRENCE AVENUE) & EXCHANGE STREET**

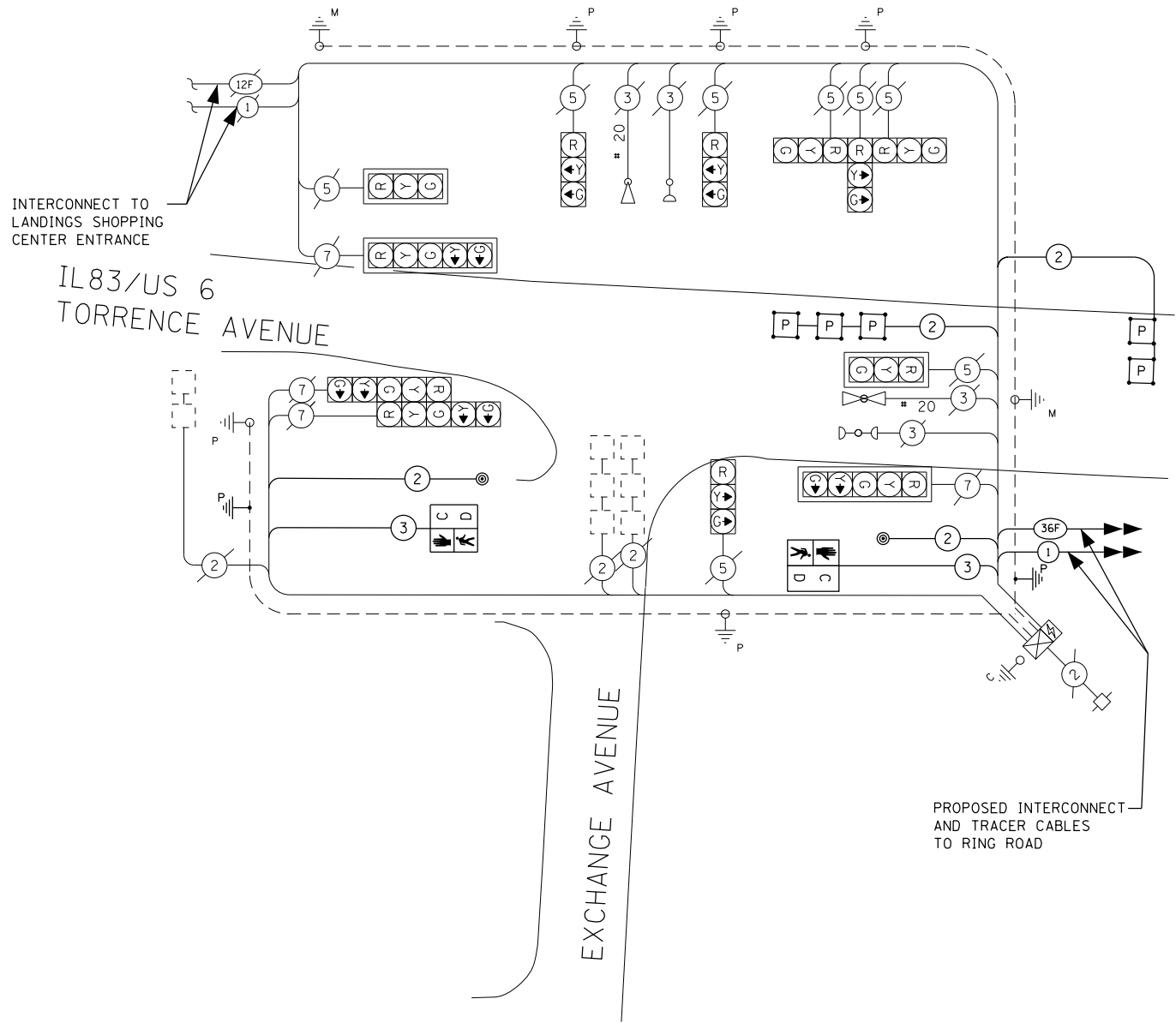
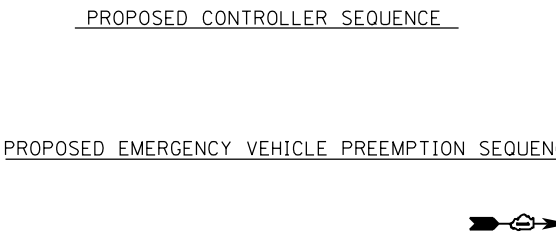
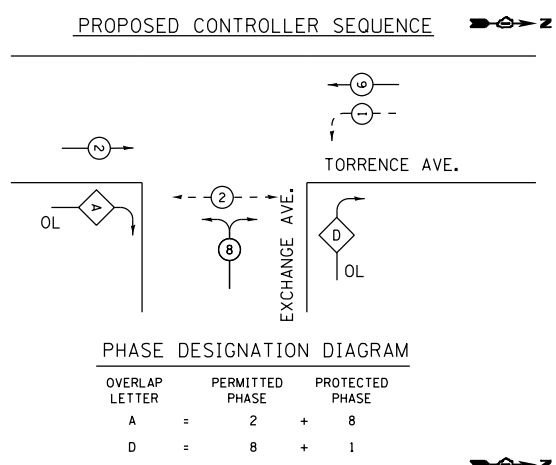
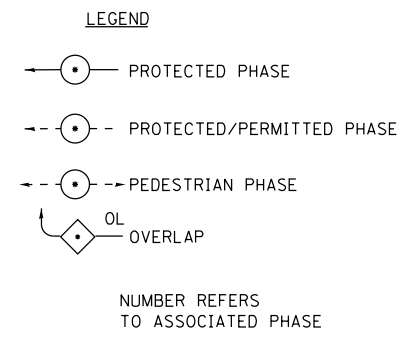
SCALE: 1" = 20' SHEET 5 OF 7 SHEETS AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	60
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

**ECON 49
TS #20955**

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	410
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	81
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	202
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	226
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	430
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PREFORMED DETECTOR LOOP	FOOT	173
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	901
REMOVE EXISTING HANDHOLE	EACH	2
PEDESTRIAN PUSH BUTTON POST, TYPE A	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				298.2

ENERGY COSTS TO:
 CITY OF CALUMET CITY
 204 PULASKI ROAD
 CALUMET CITY, IL 60409
 ENERGY SUPPLY: CONTACT: WARREN TAYLOR
 PHONE: (708) 235-2328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

USER NAME = 1951	DESIGNED - JWB	REVISED -
DESIGNED - JWB	DRAWN - JWB	REVISED -
DESIGNED - JWB	CHECKED - RS	REVISED -
DESIGNED - JWB	DATE - 03/23/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,
 PHASE DESIGNATION DIAGRAM & EMERGENCY VEHICLE PREEMPTION
 IL 83/US 6 (TORRENCE AVENUE) AT EXCHANGE STREET
 TRAFFIC SIGNAL MODERNIZATION

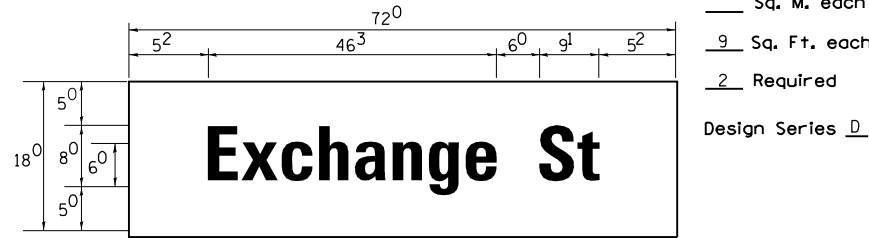
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	61
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

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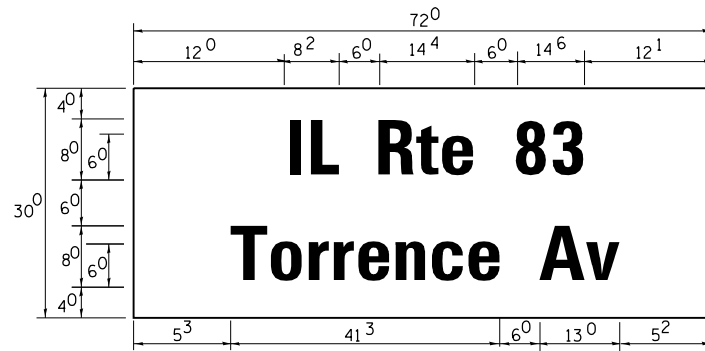


ECON 49
 TS #20955

SIGN PANEL – TYPE 1 OR TYPE 2



— Sq. M. each
 9 Sq. Ft. each
 2 Required
 Design Series D



— Sq. M. each
 15 Sq. Ft. each
 1 Required
 Design Series D

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

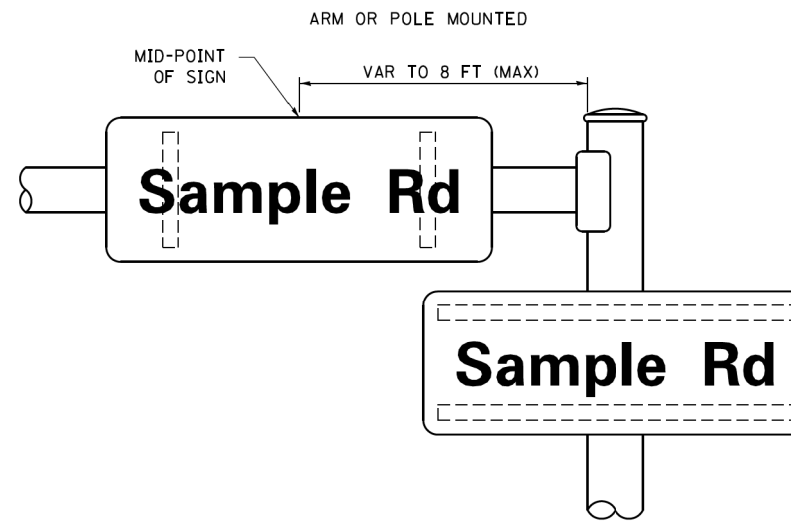
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

STANDARD ALPHABETS SPACING CHART

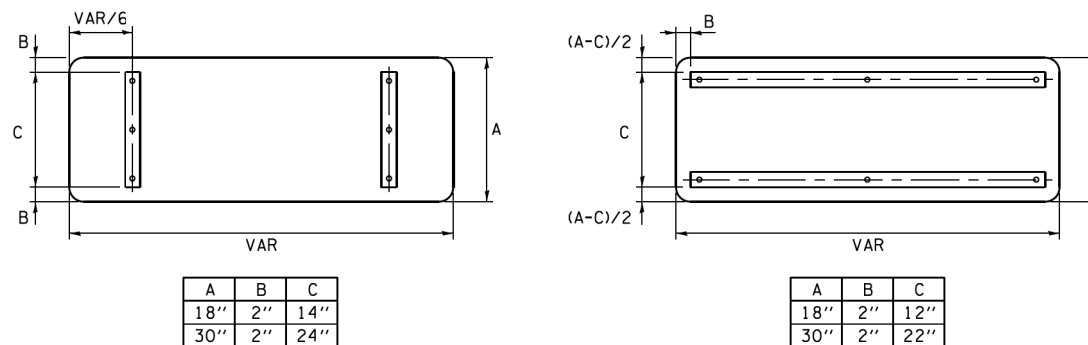
(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"			FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

MOUNTING LOCATION



SUPPORTING CHANNELS



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

A	B	C
18"	2"	14"
30"	2"	24"

A	B	C
18"	2"	12"
30"	2"	22"

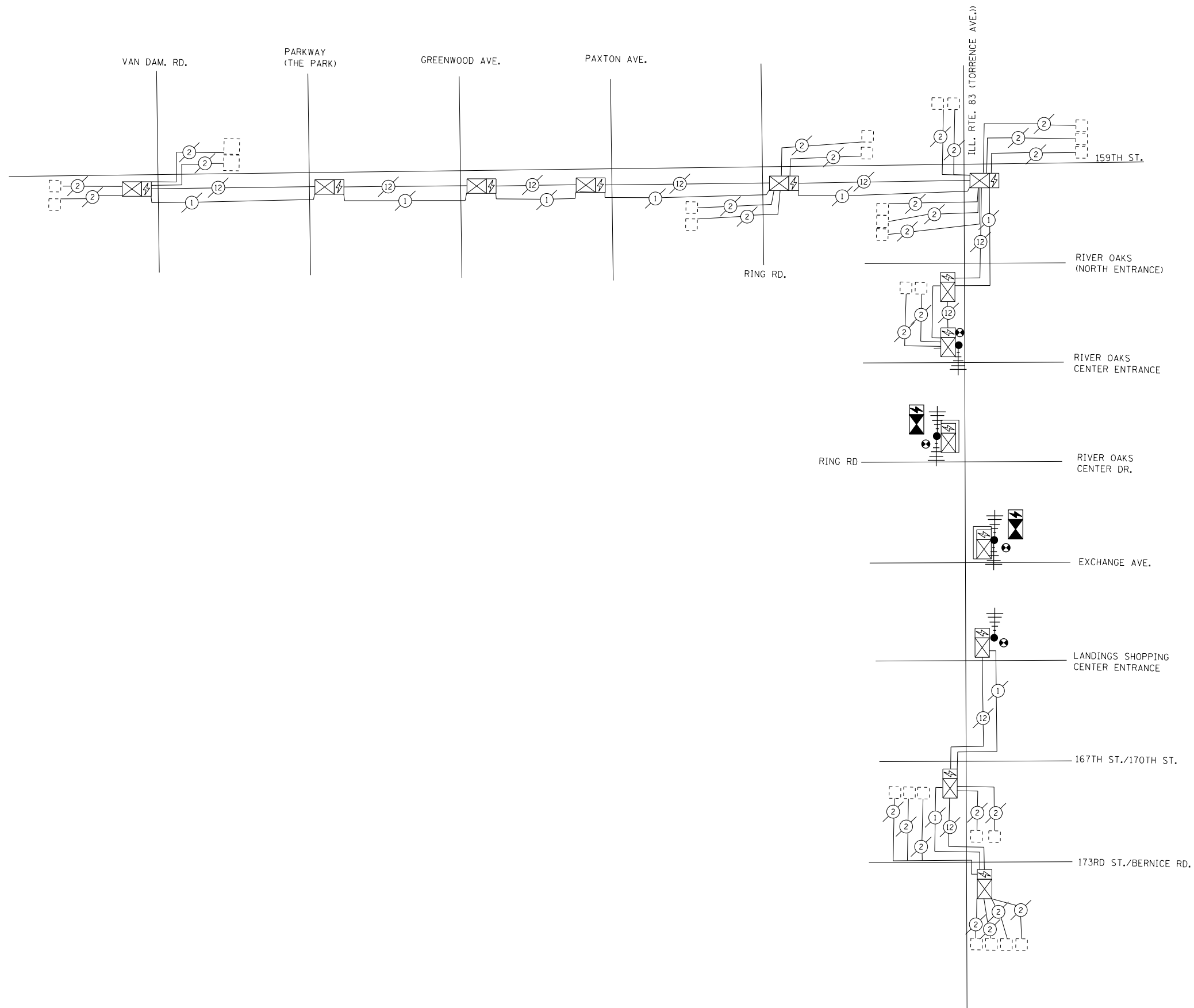
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		
MAST ARM MOUNTED STREET NAME SIGNS		
SCALE: NONE	SHEET NO. 7 OF 7	AT STA. 170+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	62
TS-02		CONTRACT NO. 60K78		
ILLINOIS FED. AID PROJECT				



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GRAEF 8501 W. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

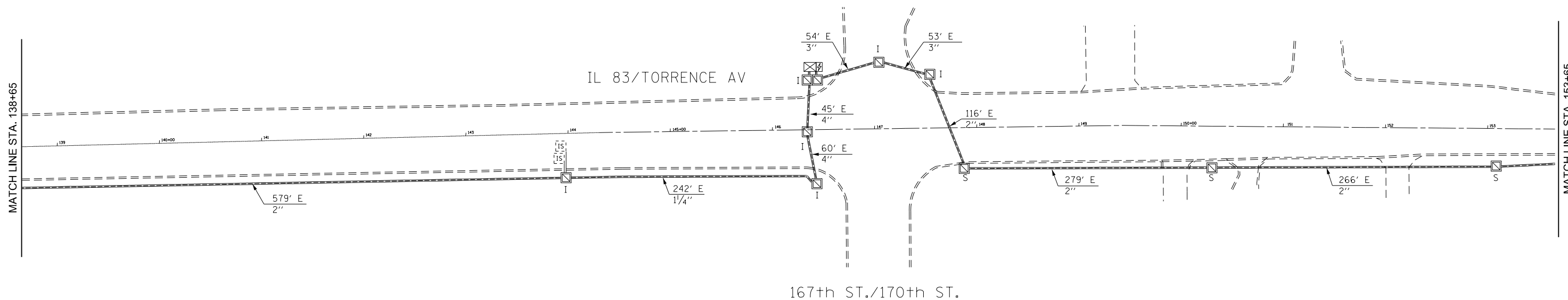
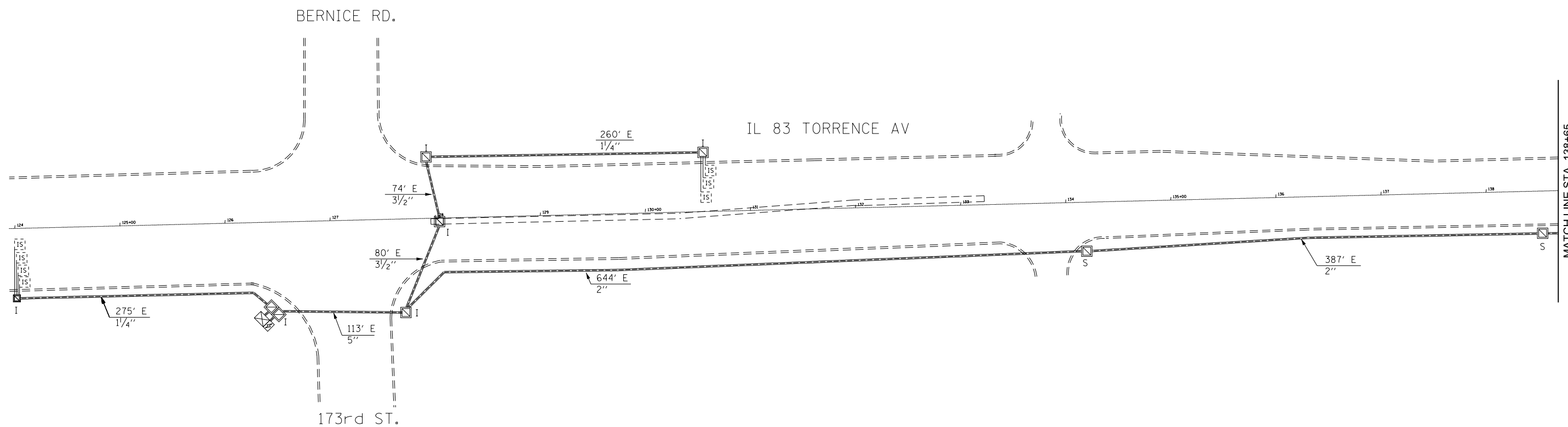
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

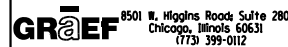
**IL 83/US 6 (TORRENCE AVENUE) FROM 173rd ST TO 159th ST
 TEMPORARY INTERCONNECT SCHEMATIC PLAN**

SCALE: NONE SHEET NO. 4 OF 8

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358	0909.1-B	COOK	138	63
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



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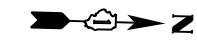
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) FROM 173rd ST TO 159th ST
INTERCONNECT MODERNIZATION PLAN

SCALE: 1" = 50' SHEET NO. 5 OF 8

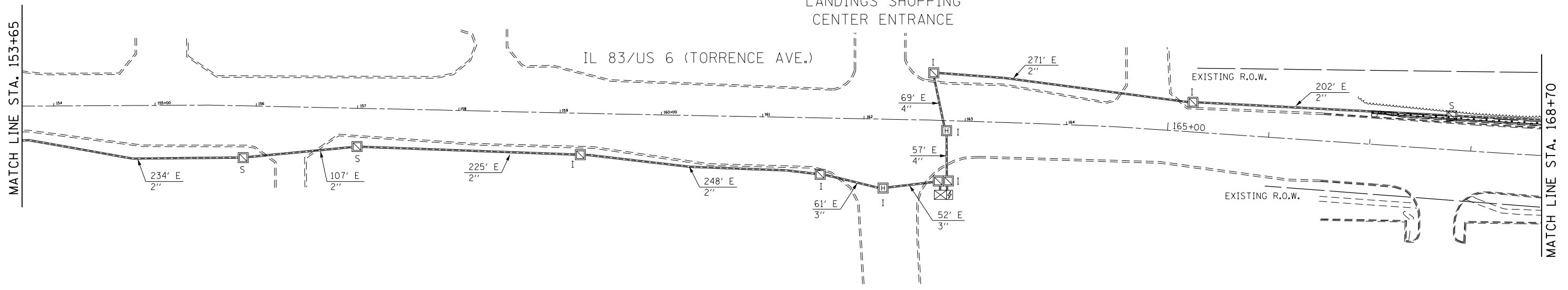
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358	0909.1-B	COOK	138	64
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49



LANDINGS SHOPPING CENTER ENTRANCE

IL 83/US 6 (TORRENCE AVE.)



NOTES 1 AND 2.

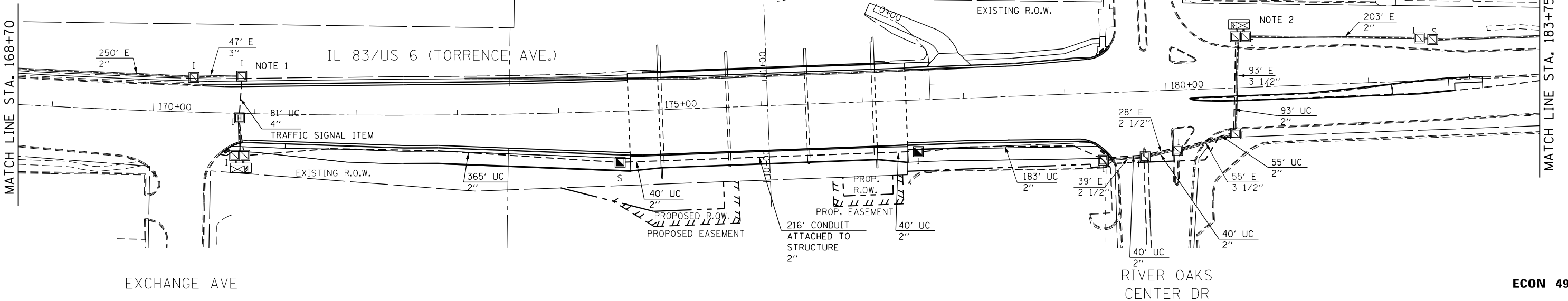
REMOVE EXISTING 12F CABLE & No. 14 1/C TRACER CABLE IN CONDUIT BETWEEN HANDHOLE 1 AND CONTROLLER AT NE CORNER OF TORRENCE/EXCHANGE; COIL AND STORE CABLE IN HANDHOLE. REINSTALL 12F CABLE & No. 14 1/C TRACER IN NEW CONDUIT AND RECONNECT TO CONTROLLER. WORK WILL BE PAID AS REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT.

REMOVE EXISTING 12F CABLE & No. 14 1/C TRACER CABLES FROM CONDUIT BETWEEN CONTROLLERS AT NE CORNER OF TORRENCE/EXCHANGE AND NW CORNER OF TORRENCE/RING. WORK WILL BE PAID AS REMOVE ELECTRIC CABLE FROM CONDUIT.



RING ROAD

IL 83/US 6 (TORRENCE AVE.)



ECON 49

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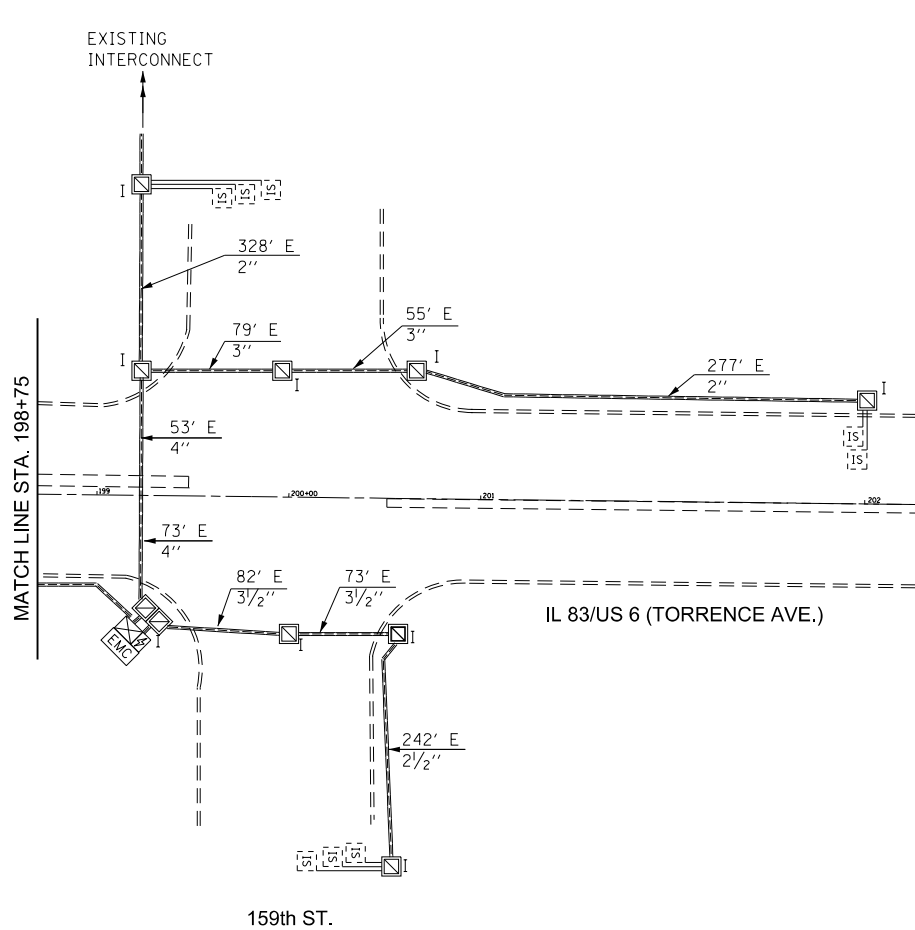
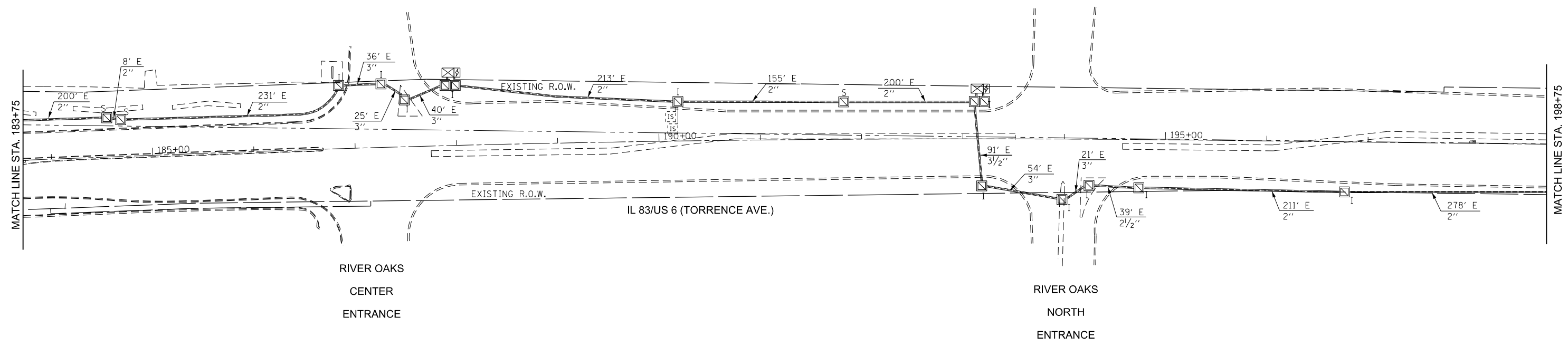
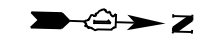
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) FROM 173rd ST TO 159th ST
INTERCONNECT MODERNIZATION PLAN

SCALE: 1" = 50' SHEET NO. 6 OF 8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	65
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



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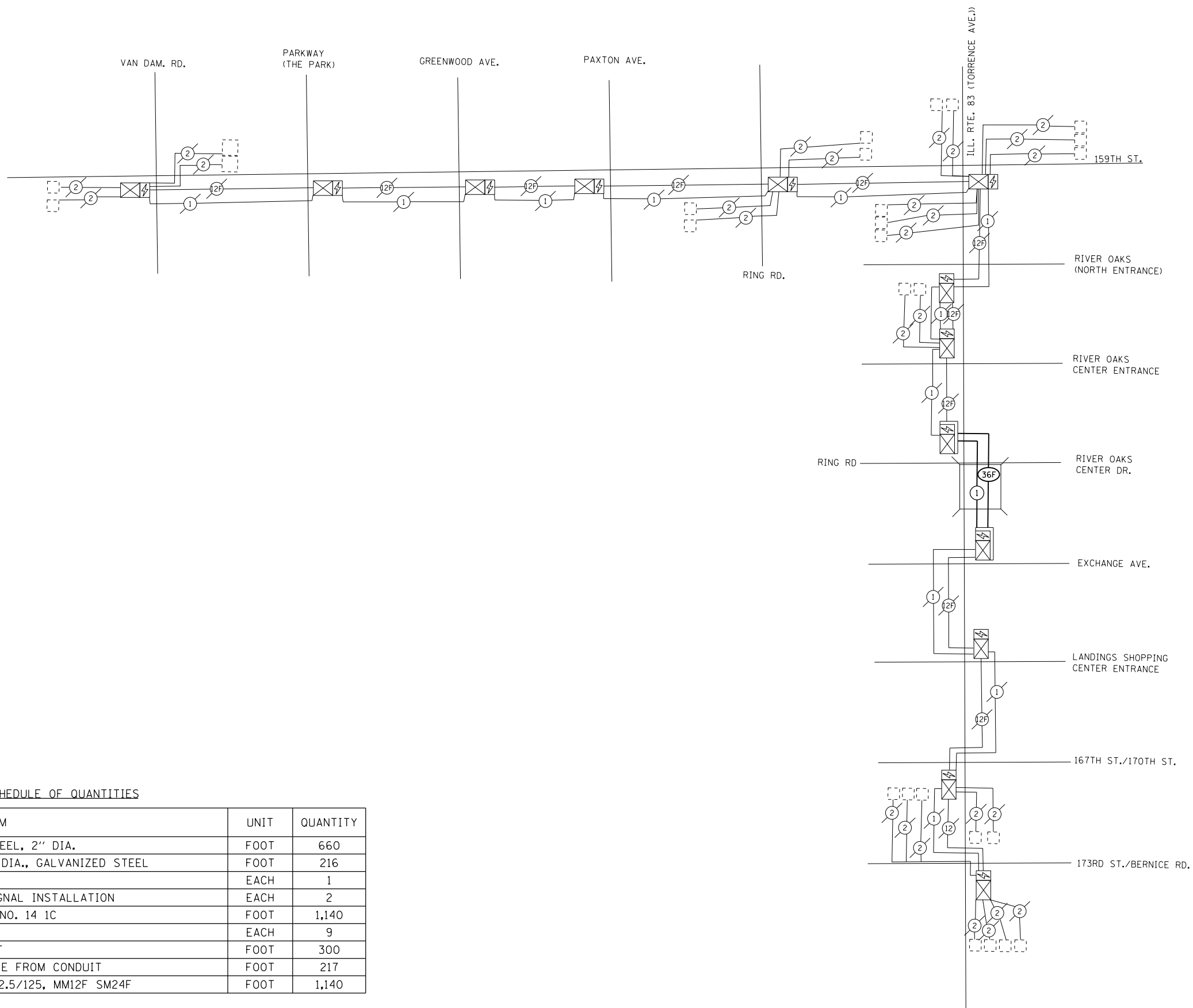
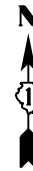
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83/US 6 (TORRENCE AVENUE) FROM 173rd ST TO 159th ST
INTERCONNECT MODERNIZATION PLAN

SCALE: 1" = 50' SHEET NO. 7 OF 8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

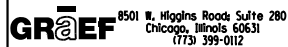
ECON 49



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	660
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	216
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,140
DRILL EXISTING HANDHOLE	EACH	9
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	217
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,140

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 83/US 6 (TORRENCE AVENUE) FROM 173rd ST TO 159th ST
INTERCONNECT SCHEMATIC PLAN**

SCALE: NONE SHEET NO. 8 OF 8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	67
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

ECON 49

Bench Mark: Chiseled "X" on traffic signal handhole at Sta. 170+83.92, 39.46' Rt. Elevation 597.92

Existing Structure: S.N. 016-0936, originally built in 1923 as FAU 2937, Section 1212.1-B-R(82). In 1962, the structure was widened to the east with simple span PPC deck beams. In 1984, the original T-beams on the west side were replaced with PPC deck beams. The existing structure consists of 3 spans on pile supported closed abutments and pile supported solid wall piers. The structure is 158'-10" back to back of abutments and 67'-0" out to out of deck. The structure is to be completely removed and replaced. Existing metal railings and posts on the bridge parapets shall remain the property of IDOT and shall be delivered by the Contractor to the District Bridge Yard on Biesterfeld Road in Elk Grove Village, Illinois, 60007. Traffic is to be maintained utilizing staged construction.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

DESIGN SPECIFICATIONS

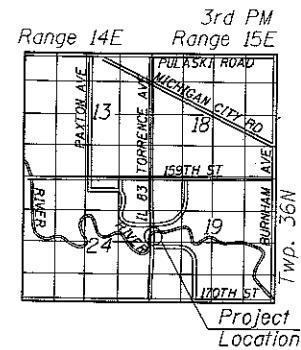
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.091g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.146g
 Soil Site Class = D

LOADING HL-93

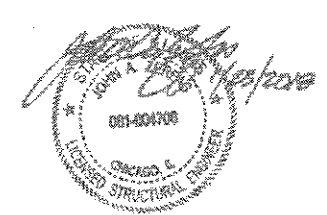
Allow 50#/sq. ft. for future wearing surface.



LOCATION SKETCH

NOTES

- The piers and abutments will be constructed 18' wider on the west side for future deck widening.
- For Sections P-P and Q-Q, see Sheet S35.
- H-piles at N. Abut. are spaced to miss 48" Sewer. Sewer location to be field verified. See Sheet S33.
- The quantity for Structure Excavation includes the excavation, which is not considered Rock Excavation, required between the Existing Abutment and the Proposed Abutment (between outer existing wingwalls) at both the South and North Abutments.
- The quantity for Rock Excavation includes the slag excavation, which is not considered Structure Excavation, required behind the Existing Abutment and Wingwalls east of the Illinois Rt. 83 down to the bottom of the proposed riprap & bedding at both the South and North Abutments. Slag is defined as very dense bluish gray or black, wet sand, partially cemented fill material with a septic or chemical like odor having a Blow Count equal to or greater than 20 blows per 6" The determination of Rock Excavation or Structure Excavation is the responsibility of the Resident Engineer.
- For Waterway Information table see Sheet S2.



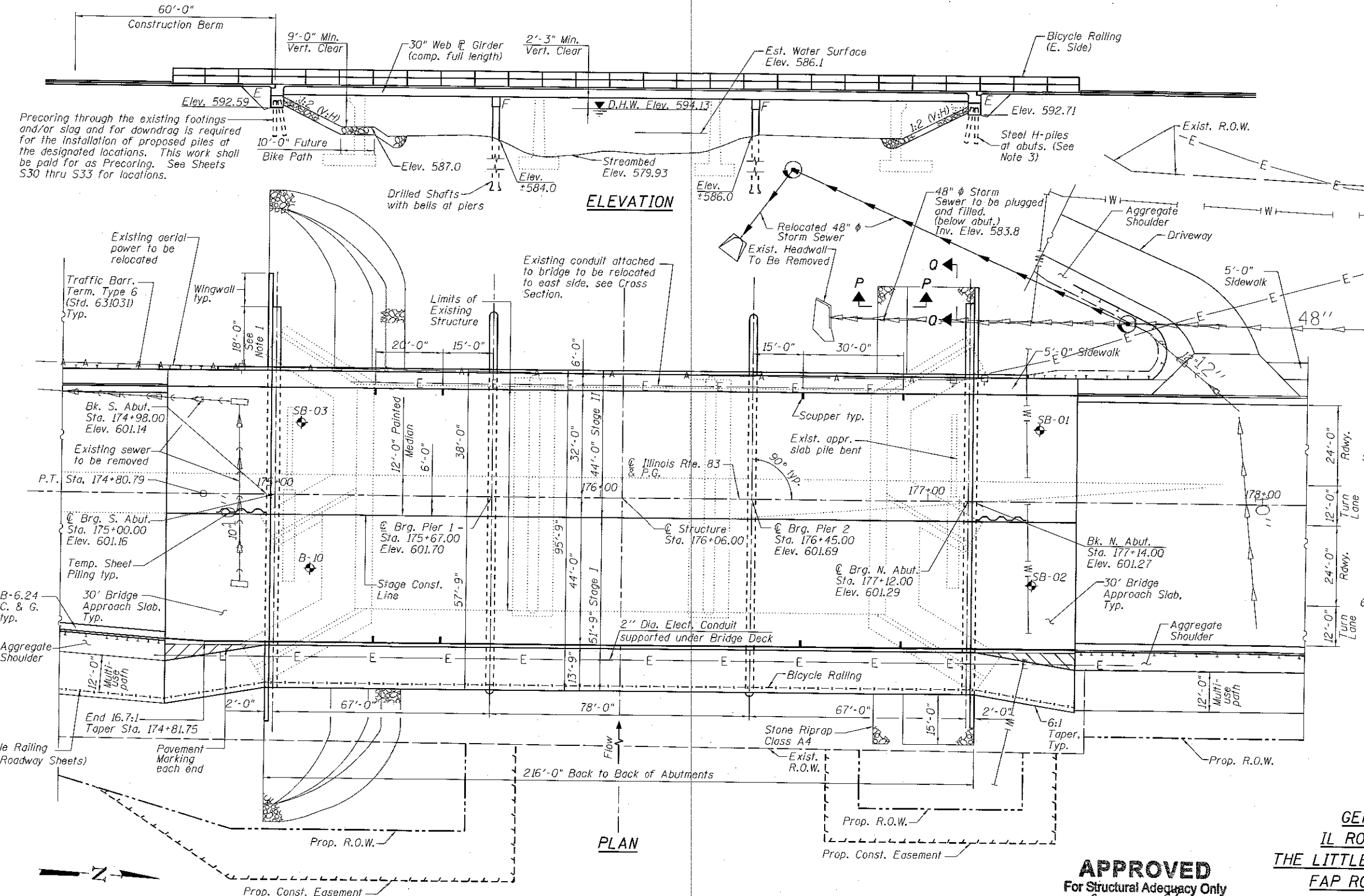
GENERAL PLAN & ELEVATION
IL ROUTE 83 (U.S. ROUTE 6) OVER
THE LITTLE CALUMET RIVER (PUBLIC WATER)
FAP ROUTE 358 - SECTION 0909.1-B
COOK COUNTY
STATION 176+06.00
STRUCTURE NO. 016-1302

APPROVED
 For Structural Adequacy Only
Carl Krueger
 Engineer of Bridges & Structures

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 016-1302
 SHEET NO. S1 OF 47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	139	68
				CONTRACT NO. 60K78



GRÄEF
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631 (773) 399-0112

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BRIDGE GENERAL NOTES

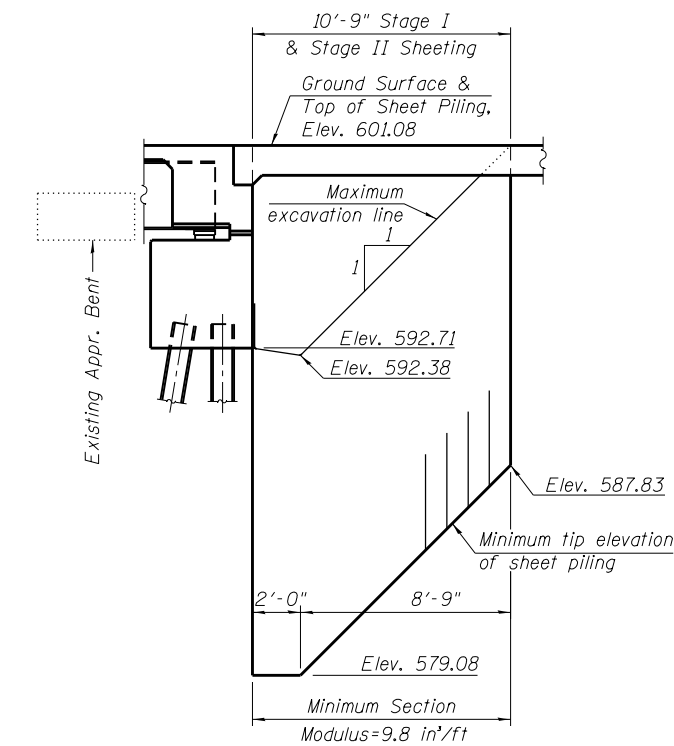
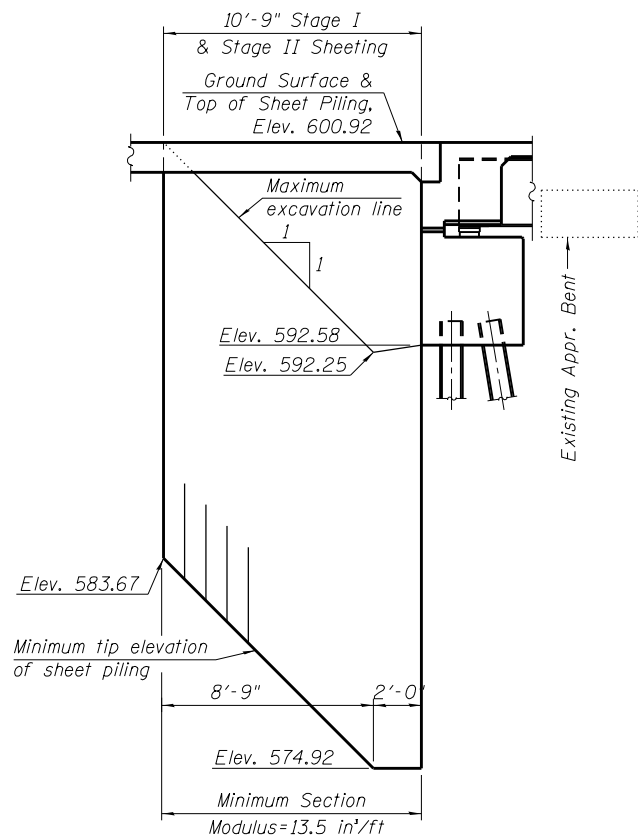
- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted.
- Calculated weight of Structural Steel = 409,010 lbs.
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designed elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete diaphragm plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- The Contractor 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. 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.
- If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,342	1,342
Filter Fabric	Sq. Yd.		1,342	1,342
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		727	727
Rock Excavation for Structures	Cu. Yd.		650	650
Concrete Structures	Cu. Yd.		470.2	470.2
Concrete Superstructure	Cu. Yd.	816.0		816.0
Bridge Deck Grooving	Sq. Yd.	2,253		2,253
Concrete Encasement	Cu. Yd.		13.6	13.6
Protective Coat	Sq. Yd.	3,152		3,152
Concrete Superstructure (Approach Slab)	Cu. Yd.	272.3		272.3
Furnishing & Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	12,441		12,441
Reinforcement Bars	Pound		52,830	52,830
Reinforcement Bars, Epoxy Coated	Pound	242,500	69,900	312,400
Bar Splicers	Each	918	540	1,458
Aluminum Railing, Type L	Foot	214		214
Bicycle Railing	Foot	275		275
Parapet Railing	Foot	270		270
Furnishing Steel Piles HPI2x53	Foot		2,098	2,098
Driving Piles	Foot		2,098	2,098
Test Pile Steel HPI2x53	Each		4	4
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		315	315
Elastometric Bearing Assembly, Type I	Each	26		26
Anchor Bolts, 1"	Each	104		104
Temporary Sheet Piling	Sq. Ft.		440	440
Geocomposite Wall Drain	Sq. Yd.		200	200
Precoring	Foot		382	382
Granular Backfill for Structures	Cu. Yd.		396	396
Asbestos Bearing Pad Removal	Each		144	144
Drainage Scuppers, DS-12	Each	8		8
Pipe Underdrains for Structures 4"	Foot		300	300

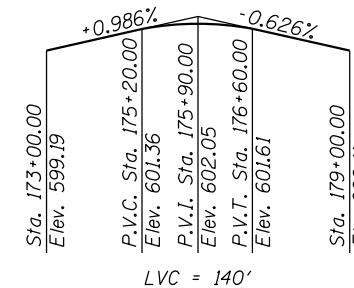
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- S2 GENERAL NOTES & TOTAL BILL OF MATERIAL
- S3 CONSTRUCTION STAGING I
- S4 CONSTRUCTION STAGING II
- S5 TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
- S6 TOP OF DECK SLAB ELEVATIONS LAYOUT
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STATION 176+06.00
 BUILT 201 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 358 SEC. 0909.1-B
 LOADING HL-93
 STRUCTURE NO. 016-1302

NAME PLATE
 See Std. 515001



CURVE DATA

P.I. Sta. = 171+36.73
 $\Delta = 6^\circ 07' 35''$
 $D = 0^\circ 53' 22''$
 $R = 6,441.63'$
 $T = 344.72'$
 $L = 688.78'$
 $E = 9.22'$
 $e = 0.0$
 P.C. Sta. = 167+92.01
 P.T. Sta. = 174+80.79

WATERWAY INFORMATION

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Drainage Area = 96.1 Sq. Mi. Exist. Low Grade Elev. = 598.36 FT. @ sta. 170+50 Prop. Low Grade Elev. = 598.36 FT. @ sta. 170+50									
2 Year Peak Flow	2	820	1095	1280	591.84	0.01	0.01	591.85	591.85
Design	10	1050	1351	1507	592.83	0.02	0.01	592.85	592.84
Base	50	1370	1546	1756	594.13	0.02	0.01	594.15	594.14
Overtopping	100	1390	1726	1980	595.29	0.01	0.01	595.30	595.30
Max. Calc.	>500								
	500	1910	2098	2336	597.77	0.02	0.02	597.79	597.79

DESIGN SCOUR ELEVATIONS (FT.)

	S. Abut.	Pier 1	Pier 2	N. Abut.
100 Yr.	592.59	582.0	583.0	592.71
500 Yr.	592.59	581.5	582.5	592.71

**ELEVATION VIEW OF TEMPORARY SHEET PILING
 LOOKING WEST AT SOUTH ABUTMENT**

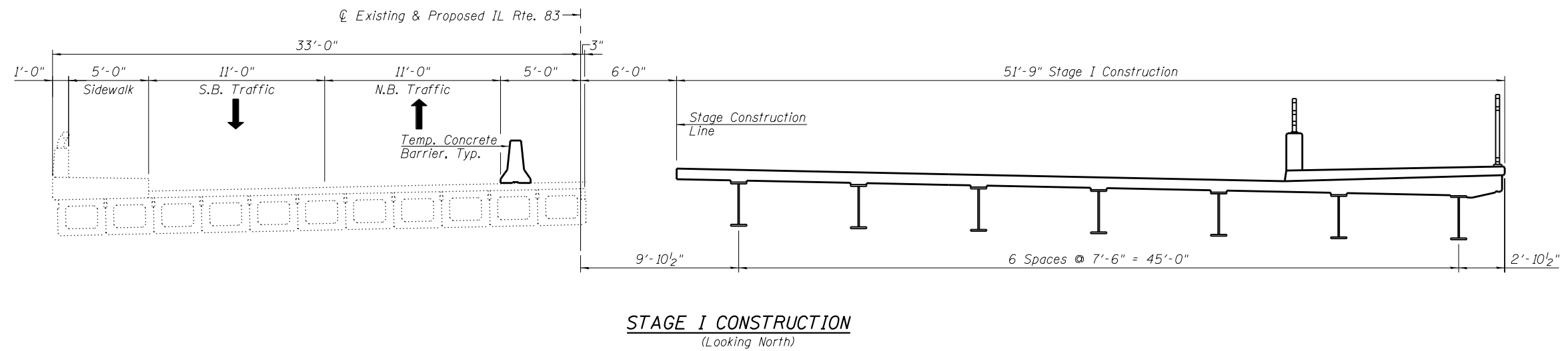
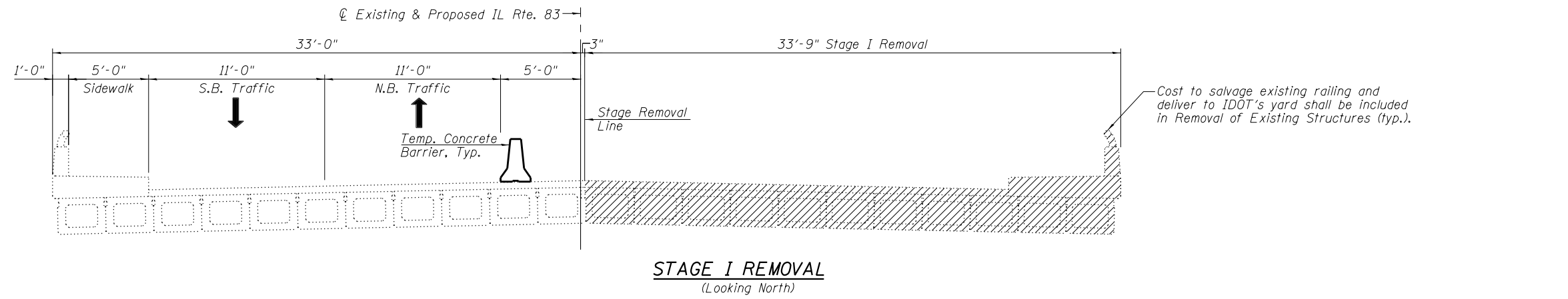
**ELEVATION VIEW OF TEMPORARY SHEET PILING
 LOOKING WEST AT NORTH ABUTMENT**

**PROFILE GRADE
 (along CL 83)**

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	DATE - 01/23/2018	REVISED -

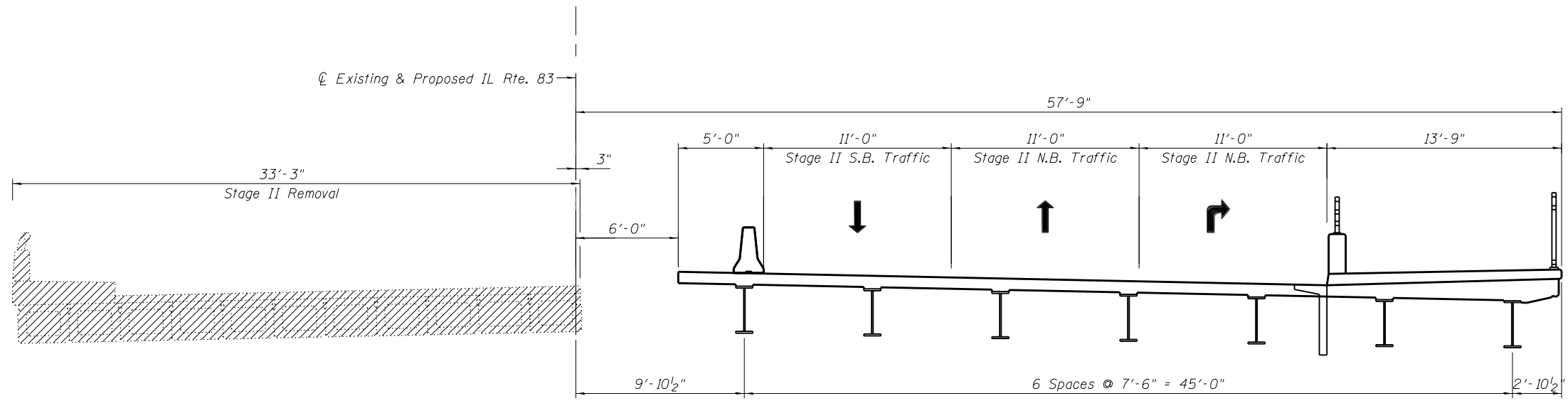
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	69
CONTRACT NO. 60K78				



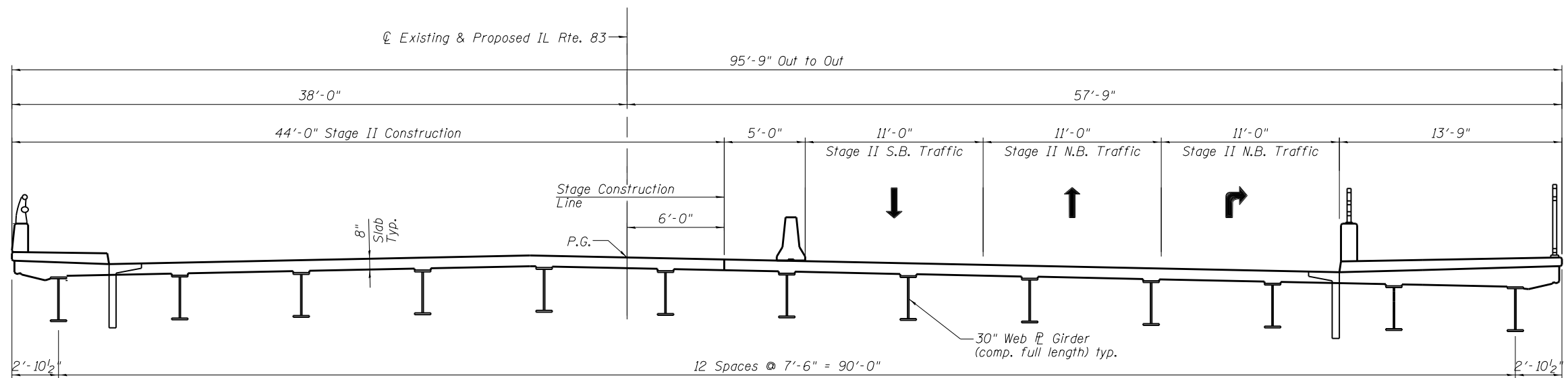
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	70
				CONTRACT NO. 60K78
ILLINOIS FED. AID PROJECT				



STAGE II REMOVAL
(Looking North)



STAGE II CONSTRUCTION
(Looking North)

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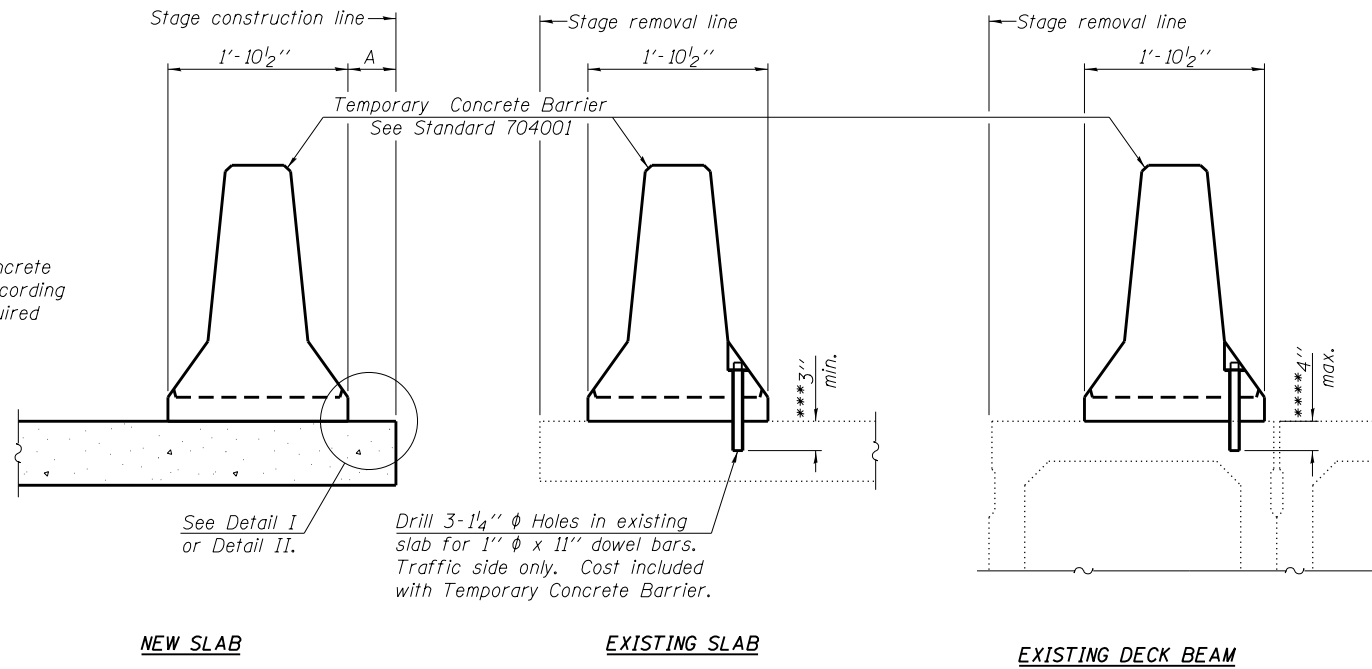
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING II
STRUCTURE NO. 016-1302

SHEET NO. S4 OF 47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	71
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

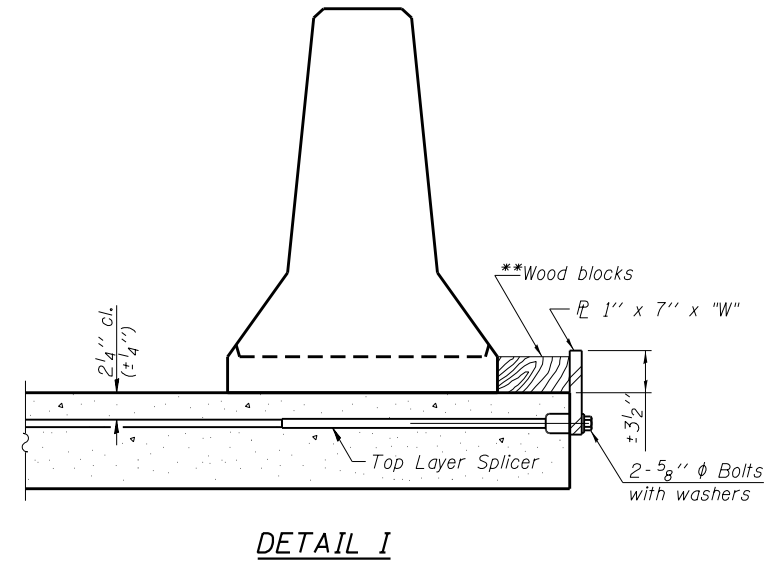
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

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

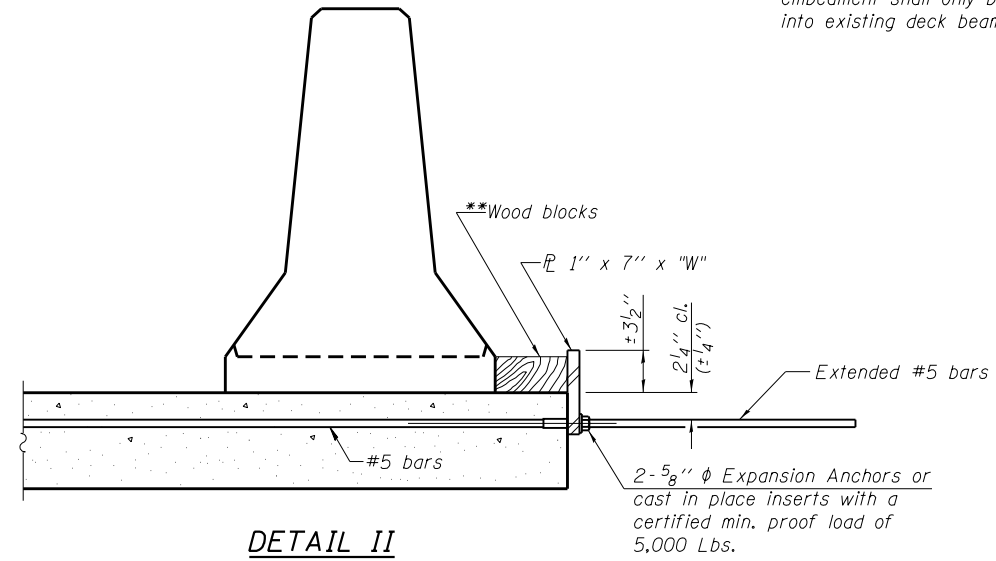
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

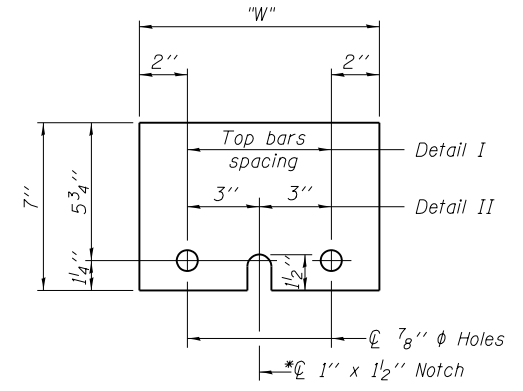
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

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R-27

7-1-10

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Chicago, Illinois 60631; (773) 399-0112

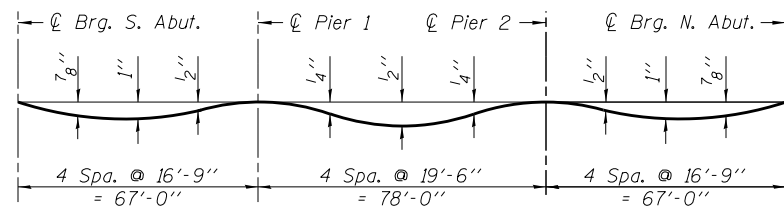
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-1302**

SHEET NO. 55 OF 47 SHEETS

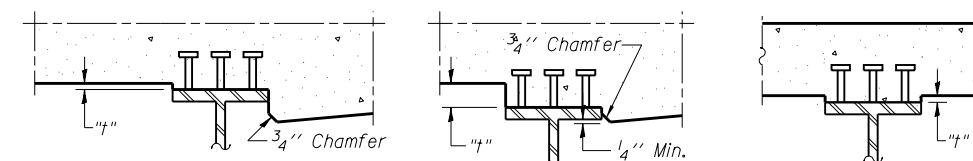
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	72
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets S7 thru S12.

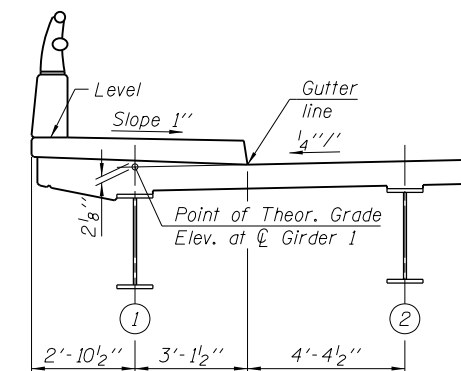
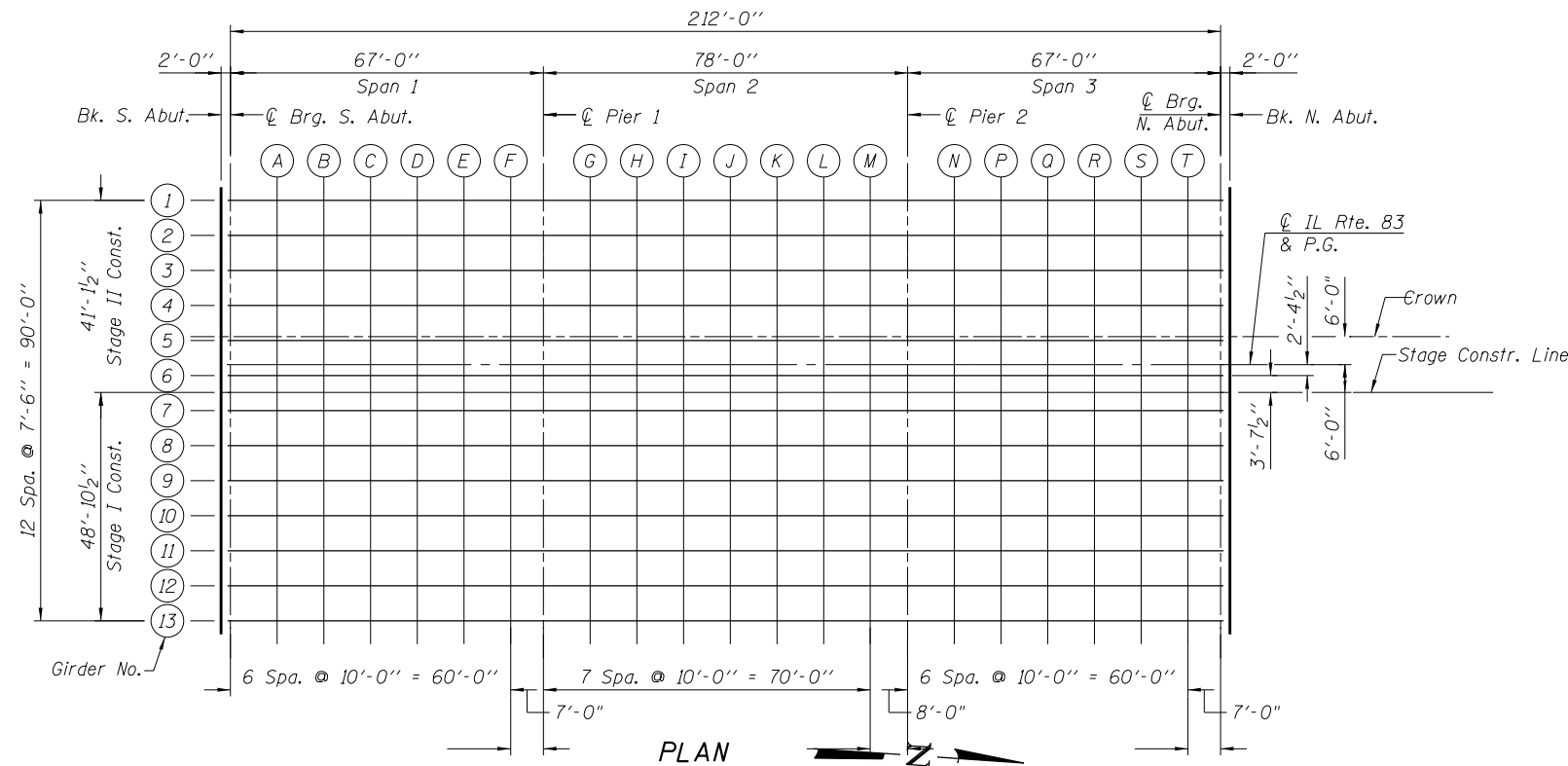


EXTERIOR BEAMS

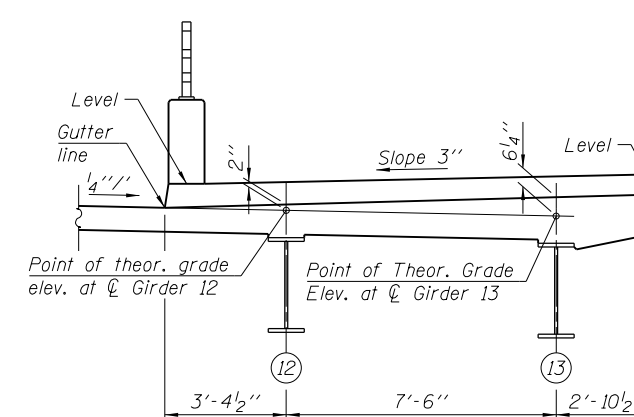
INTERIOR BEAMS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the girder shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets S7 thru S12, minus slab thickness, equals the fillet heights "t" above top flange of girder.

FILLET HEIGHTS



SECTION THRU WEST SIDEWALK
(Looking North)



SECTION THRU EAST SIDEWALK
(Looking North)

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	73
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-35.13	600.66	600.66
CL. Brg. S. Abut.	175+00.00	-35.13	600.68	600.68
A	175+10.00	-35.13	600.78	600.82
B	175+20.00	-35.13	600.88	600.96
C	175+30.00	-35.13	600.97	601.06
D	175+40.00	-35.13	601.05	601.13
E	175+50.00	-35.13	601.12	601.17
F	175+60.00	-35.13	601.18	601.19
CL. Brg. Pier 1	175+67.00	-35.13	601.21	601.21
G	175+77.00	-35.13	601.25	601.26
H	175+87.00	-35.13	601.28	601.30
I	175+97.00	-35.13	601.30	601.33
J	176+07.00	-35.13	601.30	601.34
K	176+17.00	-35.13	601.29	601.33
L	176+27.00	-35.13	601.27	601.29
M	176+37.00	-35.13	601.24	601.25
CL. Brg. Pier 2	176+45.00	-35.13	601.21	601.21
N	176+55.00	-35.13	601.16	601.18
P	176+65.00	-35.13	601.10	601.15
Q	176+75.00	-35.13	601.04	601.12
R	176+85.00	-35.13	600.97	601.06
S	176+95.00	-35.13	600.91	600.99
T	177+05.00	-35.13	600.85	600.89
CL. Brg. N. Abut.	177+12.00	-35.13	600.80	600.80
BK. N. ABUT.	177+14.00	-35.13	600.79	600.79

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-27.63	600.82	600.82
CL. Brg. S. Abut.	175+00.00	-27.63	600.84	600.84
A	175+10.00	-27.63	600.94	600.98
B	175+20.00	-27.63	601.03	601.11
C	175+30.00	-27.63	601.13	601.22
D	175+40.00	-27.63	601.21	601.28
E	175+50.00	-27.63	601.28	601.32
F	175+60.00	-27.63	601.34	601.35
CL. Brg. Pier 1	175+67.00	-27.63	601.37	601.37
G	175+77.00	-27.63	601.41	601.41
H	175+87.00	-27.63	601.44	601.46
I	175+97.00	-27.63	601.45	601.49
J	176+07.00	-27.63	601.46	601.50
K	176+17.00	-27.63	601.45	601.48
L	176+27.00	-27.63	601.43	601.45
M	176+37.00	-27.63	601.40	601.40
CL. Brg. Pier 2	176+45.00	-27.63	601.37	601.37
N	176+55.00	-27.63	601.32	601.33
P	176+65.00	-27.63	601.26	601.31
Q	176+75.00	-27.63	601.19	601.27
R	176+85.00	-27.63	601.13	601.22
S	176+95.00	-27.63	601.07	601.14
T	177+05.00	-27.63	601.00	601.04
CL. Brg. N. Abut.	177+12.00	-27.63	600.96	600.96
BK. N. ABUT.	177+14.00	-27.63	600.95	600.95

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-20.13	600.97	600.97
CL. Brg. S. Abut.	175+00.00	-20.13	600.99	600.99
A	175+10.00	-20.13	601.09	601.14
B	175+20.00	-20.13	601.19	601.27
C	175+30.00	-20.13	601.28	601.37
D	175+40.00	-20.13	601.36	601.44
E	175+50.00	-20.13	601.43	601.48
F	175+60.00	-20.13	601.49	601.51
CL. Brg. Pier 1	175+67.00	-20.13	601.53	601.53
G	175+77.00	-20.13	601.57	601.57
H	175+87.00	-20.13	601.59	601.61
I	175+97.00	-20.13	601.61	601.64
J	176+07.00	-20.13	601.61	601.66
K	176+17.00	-20.13	601.61	601.64
L	176+27.00	-20.13	601.59	601.60
M	176+37.00	-20.13	601.56	601.56
CL. Brg. Pier 2	176+45.00	-20.13	601.52	601.52
N	176+55.00	-20.13	601.47	601.49
P	176+65.00	-20.13	601.41	601.46
Q	176+75.00	-20.13	601.35	601.43
R	176+85.00	-20.13	601.29	601.38
S	176+95.00	-20.13	601.22	601.30
T	177+05.00	-20.13	601.16	601.20
CL. Brg. N. Abut.	177+12.00	-20.13	601.12	601.12
BK. N. ABUT.	177+14.00	-20.13	601.10	601.10

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	74
CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-12.63	601.13	601.13
CL. Brg. S. Abut.	175+00.00	-12.63	601.15	601.15
A	175+10.00	-12.63	601.25	601.29
B	175+20.00	-12.63	601.35	601.43
C	175+30.00	-12.63	601.44	601.53
D	175+40.00	-12.63	601.52	601.60
E	175+50.00	-12.63	601.59	601.64
F	175+60.00	-12.63	601.65	601.66
CL. Brg. Pier 1	175+67.00	-12.63	601.68	601.68
G	175+77.00	-12.63	601.72	601.72
H	175+87.00	-12.63	601.75	601.77
I	175+97.00	-12.63	601.76	601.80
J	176+07.00	-12.63	601.77	601.81
K	176+17.00	-12.63	601.76	601.80
L	176+27.00	-12.63	601.74	601.76
M	176+37.00	-12.63	601.71	601.71
CL. Brg. Pier 2	176+45.00	-12.63	601.68	601.68
N	176+55.00	-12.63	601.63	601.65
P	176+65.00	-12.63	601.57	601.62
Q	176+75.00	-12.63	601.50	601.58
R	176+85.00	-12.63	601.44	601.53
S	176+95.00	-12.63	601.38	601.45
T	177+05.00	-12.63	601.32	601.35
CL. Brg. N. Abut.	177+12.00	-12.63	601.27	601.27
BK. N. ABUT.	177+14.00	-12.63	601.26	601.26

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-6.00	601.27	601.27
CL. Brg. S. Abut.	175+00.00	-6.00	601.29	601.29
A	175+10.00	-6.00	601.39	601.43
B	175+20.00	-6.00	601.48	601.56
C	175+30.00	-6.00	601.58	601.67
D	175+40.00	-6.00	601.66	601.73
E	175+50.00	-6.00	601.73	601.77
F	175+60.00	-6.00	601.79	601.80
CL. Brg. Pier 1	175+67.00	-6.00	601.82	601.82
G	175+77.00	-6.00	601.86	601.86
H	175+87.00	-6.00	601.89	601.91
I	175+97.00	-6.00	601.90	601.94
J	176+07.00	-6.00	601.91	601.95
K	176+17.00	-6.00	601.90	601.93
L	176+27.00	-6.00	601.88	601.90
M	176+37.00	-6.00	601.85	601.85
CL. Brg. Pier 2	176+45.00	-6.00	601.82	601.82
N	176+55.00	-6.00	601.77	601.79
P	176+65.00	-6.00	601.71	601.76
Q	176+75.00	-6.00	601.64	601.72
R	176+85.00	-6.00	601.58	601.67
S	176+95.00	-6.00	601.52	601.59
T	177+05.00	-6.00	601.46	601.49
CL. Brg. N. Abut.	177+12.00	-6.00	601.41	601.41
BK. N. ABUT.	177+14.00	-6.00	601.40	601.40

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	-5.13	601.25	601.25
CL. Brg. S. Abut.	175+00.00	-5.13	601.27	601.27
A	175+10.00	-5.13	601.37	601.41
B	175+20.00	-5.13	601.47	601.55
C	175+30.00	-5.13	601.56	601.65
D	175+40.00	-5.13	601.64	601.72
E	175+50.00	-5.13	601.71	601.76
F	175+60.00	-5.13	601.77	601.78
CL. Brg. Pier 1	175+67.00	-5.13	601.80	601.80
G	175+77.00	-5.13	601.84	601.84
H	175+87.00	-5.13	601.87	601.89
I	175+97.00	-5.13	601.88	601.92
J	176+07.00	-5.13	601.89	601.93
K	176+17.00	-5.13	601.88	601.92
L	176+27.00	-5.13	601.86	601.88
M	176+37.00	-5.13	601.83	601.83
CL. Brg. Pier 2	176+45.00	-5.13	601.80	601.80
N	176+55.00	-5.13	601.75	601.77
P	176+65.00	-5.13	601.69	601.74
Q	176+75.00	-5.13	601.62	601.70
R	176+85.00	-5.13	601.56	601.65
S	176+95.00	-5.13	601.50	601.57
T	177+05.00	-5.13	601.44	601.47
CL. Brg. N. Abut.	177+12.00	-5.13	601.39	601.39
BK. N. ABUT.	177+14.00	-5.13	601.38	601.38

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USER NAME =	DESIGNED - J.Z.	REVISED -
CHECKED - J.J.G.	REVISED -	
PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	75
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

P.G. & C IL Rte. 83

GIRDER 6

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	0.00	601.14	601.14
CL. Brg. S. Abut.	175+00.00	0.00	601.16	601.16
A	175+10.00	0.00	601.26	601.31
B	175+20.00	0.00	601.36	601.44
C	175+30.00	0.00	601.45	601.54
D	175+40.00	0.00	601.53	601.61
E	175+50.00	0.00	601.60	601.65
F	175+60.00	0.00	601.66	601.68
CL. Brg. Pier 1	175+67.00	0.00	601.70	601.70
G	175+77.00	0.00	601.73	601.74
H	175+87.00	0.00	601.76	601.78
I	175+97.00	0.00	601.78	601.81
J	176+07.00	0.00	601.78	601.82
K	176+17.00	0.00	601.77	601.81
L	176+27.00	0.00	601.76	601.77
M	176+37.00	0.00	601.73	601.73
CL. Brg. Pier 2	176+45.00	0.00	601.69	601.69
N	176+55.00	0.00	601.64	601.66
P	176+65.00	0.00	601.58	601.63
Q	176+75.00	0.00	601.52	601.60
R	176+85.00	0.00	601.46	601.55
S	176+95.00	0.00	601.39	601.47
T	177+05.00	0.00	601.33	601.37
CL. Brg. N. Abut.	177+12.00	0.00	601.29	601.29
BK. N. ABUT.	177+14.00	0.00	601.27	601.27

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	2.38	601.09	601.09
CL. Brg. S. Abut.	175+00.00	2.38	601.11	601.11
A	175+10.00	2.38	601.21	601.26
B	175+20.00	2.38	601.31	601.39
C	175+30.00	2.38	601.40	601.49
D	175+40.00	2.38	601.48	601.56
E	175+50.00	2.38	601.55	601.60
F	175+60.00	2.38	601.61	601.63
CL. Brg. Pier 1	175+67.00	2.38	601.65	601.65
G	175+77.00	2.38	601.69	601.69
H	175+87.00	2.38	601.71	601.73
I	175+97.00	2.38	601.73	601.76
J	176+07.00	2.38	601.73	601.78
K	176+17.00	2.38	601.73	601.76
L	176+27.00	2.38	601.71	601.72
M	176+37.00	2.38	601.68	601.68
CL. Brg. Pier 2	176+45.00	2.38	601.64	601.64
N	176+55.00	2.38	601.59	601.61
P	176+65.00	2.38	601.53	601.58
Q	176+75.00	2.38	601.47	601.55
R	176+85.00	2.38	601.41	601.50
S	176+95.00	2.38	601.34	601.42
T	177+05.00	2.38	601.28	601.32
CL. Brg. N. Abut.	177+12.00	2.38	601.24	601.24
BK. N. ABUT.	177+14.00	2.38	601.22	601.22

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	6.00	601.02	601.02
CL. Brg. S. Abut.	175+00.00	6.00	601.04	601.04
A	175+10.00	6.00	601.14	601.18
B	175+20.00	6.00	601.23	601.31
C	175+30.00	6.00	601.33	601.42
D	175+40.00	6.00	601.41	601.48
E	175+50.00	6.00	601.48	601.52
F	175+60.00	6.00	601.54	601.55
CL. Brg. Pier 1	175+67.00	6.00	601.57	601.57
G	175+77.00	6.00	601.61	601.61
H	175+87.00	6.00	601.64	601.66
I	175+97.00	6.00	601.65	601.69
J	176+07.00	6.00	601.66	601.70
K	176+17.00	6.00	601.65	601.68
L	176+27.00	6.00	601.63	601.65
M	176+37.00	6.00	601.60	601.60
CL. Brg. Pier 2	176+45.00	6.00	601.57	601.57
N	176+55.00	6.00	601.52	601.54
P	176+65.00	6.00	601.46	601.51
Q	176+75.00	6.00	601.39	601.47
R	176+85.00	6.00	601.33	601.42
S	176+95.00	6.00	601.27	601.34
T	177+05.00	6.00	601.21	601.24
CL. Brg. N. Abut.	177+12.00	6.00	601.16	601.16
BK. N. ABUT.	177+14.00	6.00	601.15	601.15

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USER NAME =	DESIGNED - J.Z.	REVISED -
CHECKED - J.J.G.	REVISED -	
PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK SLAB ELEVATIONS III
STRUCTURE NO. 016-1302**

SHEET NO. 59 OF 47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	76
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	9.88	600.94	600.94
CL. Brg. S. Abut.	175+00.00	9.88	600.96	600.96
A	175+10.00	9.88	601.05	601.10
B	175+20.00	9.88	601.15	601.23
C	175+30.00	9.88	601.25	601.34
D	175+40.00	9.88	601.33	601.40
E	175+50.00	9.88	601.40	601.44
F	175+60.00	9.88	601.46	601.47
CL. Brg. Pier 1	175+67.00	9.88	601.49	601.49
G	175+77.00	9.88	601.53	601.53
H	175+87.00	9.88	601.56	601.58
I	175+97.00	9.88	601.57	601.61
J	176+07.00	9.88	601.58	601.62
K	176+17.00	9.88	601.57	601.60
L	176+27.00	9.88	601.55	601.57
M	176+37.00	9.88	601.52	601.52
CL. Brg. Pier 2	176+45.00	9.88	601.49	601.49
N	176+55.00	9.88	601.44	601.45
P	176+65.00	9.88	601.37	601.43
Q	176+75.00	9.88	601.31	601.39
R	176+85.00	9.88	601.25	601.34
S	176+95.00	9.88	601.19	601.26
T	177+05.00	9.88	601.12	601.16
CL. Brg. N. Abut.	177+12.00	9.88	601.08	601.08
BK. N. ABUT.	177+14.00	9.88	601.07	601.07

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	17.38	600.78	600.78
CL. Brg. S. Abut.	175+00.00	17.38	600.80	600.80
A	175+10.00	17.38	600.90	600.94
B	175+20.00	17.38	601.00	601.08
C	175+30.00	17.38	601.09	601.18
D	175+40.00	17.38	601.17	601.25
E	175+50.00	17.38	601.24	601.29
F	175+60.00	17.38	601.30	601.31
CL. Brg. Pier 1	175+67.00	17.38	601.33	601.33
G	175+77.00	17.38	601.37	601.38
H	175+87.00	17.38	601.40	601.42
I	175+97.00	17.38	601.42	601.45
J	176+07.00	17.38	601.42	601.46
K	176+17.00	17.38	601.41	601.45
L	176+27.00	17.38	601.39	601.41
M	176+37.00	17.38	601.36	601.36
CL. Brg. Pier 2	176+45.00	17.38	601.33	601.33
N	176+55.00	17.38	601.28	601.30
P	176+65.00	17.38	601.22	601.27
Q	176+75.00	17.38	601.16	601.24
R	176+85.00	17.38	601.09	601.18
S	176+95.00	17.38	601.03	601.11
T	177+05.00	17.38	600.97	601.00
CL. Brg. N. Abut.	177+12.00	17.38	600.92	600.92
BK. N. ABUT.	177+14.00	17.38	600.91	600.91

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	24.88	600.62	600.62
CL. Brg. S. Abut.	175+00.00	24.88	600.64	600.64
A	175+10.00	24.88	600.74	600.79
B	175+20.00	24.88	600.84	600.92
C	175+30.00	24.88	600.93	601.02
D	175+40.00	24.88	601.02	601.09
E	175+50.00	24.88	601.09	601.13
F	175+60.00	24.88	601.14	601.16
CL. Brg. Pier 1	175+67.00	24.88	601.18	601.18
G	175+77.00	24.88	601.22	601.22
H	175+87.00	24.88	601.24	601.26
I	175+97.00	24.88	601.26	601.30
J	176+07.00	24.88	601.26	601.31
K	176+17.00	24.88	601.26	601.29
L	176+27.00	24.88	601.24	601.25
M	176+37.00	24.88	601.21	601.21
CL. Brg. Pier 2	176+45.00	24.88	601.17	601.17
N	176+55.00	24.88	601.12	601.14
P	176+65.00	24.88	601.06	601.11
Q	176+75.00	24.88	601.00	601.08
R	176+85.00	24.88	600.94	601.03
S	176+95.00	24.88	600.87	600.95
T	177+05.00	24.88	600.81	600.85
CL. Brg. N. Abut.	177+12.00	24.88	600.77	600.77
BK. N. ABUT.	177+14.00	24.88	600.76	600.76

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USER NAME =	DESIGNED - J.Z.	REVISED -
	CHECKED - J.J.G.	REVISED -
PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	77
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	32.38	600.47	600.47
CL. Brg. S. Abut.	175+00.00	32.38	600.49	600.49
A	175+10.00	32.38	600.59	600.63
B	175+20.00	32.38	600.68	600.76
C	175+30.00	32.38	600.78	600.87
D	175+40.00	32.38	600.86	600.93
E	175+50.00	32.38	600.93	600.97
F	175+60.00	32.38	600.99	601.00
CL. Brg. Pier 1	175+67.00	32.38	601.02	601.02
G	175+77.00	32.38	601.06	601.06
H	175+87.00	32.38	601.09	601.11
I	175+97.00	32.38	601.10	601.14
J	176+07.00	32.38	601.11	601.15
K	176+17.00	32.38	601.10	601.13
L	176+27.00	32.38	601.08	601.10
M	176+37.00	32.38	601.05	601.05
CL. Brg. Pier 2	176+45.00	32.38	601.02	601.02
N	176+55.00	32.38	600.97	600.99
P	176+65.00	32.38	600.91	600.96
Q	176+75.00	32.38	600.84	600.92
R	176+85.00	32.38	600.78	600.87
S	176+95.00	32.38	600.72	600.79
T	177+05.00	32.38	600.66	600.69
CL. Brg. N. Abut.	177+12.00	32.38	600.61	600.61
BK. N. ABUT.	177+14.00	32.38	600.60	600.60

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	39.88	600.31	600.31
CL. Brg. S. Abut.	175+00.00	39.88	600.33	600.33
A	175+10.00	39.88	600.43	600.48
B	175+20.00	39.88	600.53	600.61
C	175+30.00	39.88	600.62	600.71
D	175+40.00	39.88	600.70	600.78
E	175+50.00	39.88	600.77	600.82
F	175+60.00	39.88	600.83	600.84
CL. Brg. Pier 1	175+67.00	39.88	600.87	600.87
G	175+77.00	39.88	600.90	600.91
H	175+87.00	39.88	600.93	600.95
I	175+97.00	39.88	600.95	600.98
J	176+07.00	39.88	600.95	600.99
K	176+17.00	39.88	600.94	600.98
L	176+27.00	39.88	600.92	600.94
M	176+37.00	39.88	600.89	600.90
CL. Brg. Pier 2	176+45.00	39.88	600.86	600.86
N	176+55.00	39.88	600.81	600.83
P	176+65.00	39.88	600.75	600.80
Q	176+75.00	39.88	600.69	600.77
R	176+85.00	39.88	600.62	600.71
S	176+95.00	39.88	600.56	600.64
T	177+05.00	39.88	600.50	600.54
CL. Brg. N. Abut.	177+12.00	39.88	600.46	600.46
BK. N. ABUT.	177+14.00	39.88	600.44	600.44

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	47.38	600.16	600.16
CL. Brg. S. Abut.	175+00.00	47.38	600.18	600.18
A	175+10.00	47.38	600.27	600.32
B	175+20.00	47.38	600.37	600.45
C	175+30.00	47.38	600.47	600.56
D	175+40.00	47.38	600.55	600.62
E	175+50.00	47.38	600.62	600.66
F	175+60.00	47.38	600.68	600.69
CL. Brg. Pier 1	175+67.00	47.38	600.71	600.71
G	175+77.00	47.38	600.75	600.75
H	175+87.00	47.38	600.78	600.79
I	175+97.00	47.38	600.79	600.83
J	176+07.00	47.38	600.79	600.84
K	176+17.00	47.38	600.79	600.82
L	176+27.00	47.38	600.77	600.79
M	176+37.00	47.38	600.74	600.74
CL. Brg. Pier 2	176+45.00	47.38	600.71	600.71
N	176+55.00	47.38	600.65	600.67
P	176+65.00	47.38	600.59	600.65
Q	176+75.00	47.38	600.53	600.61
R	176+85.00	47.38	600.47	600.56
S	176+95.00	47.38	600.41	600.48
T	177+05.00	47.38	600.34	600.38
CL. Brg. N. Abut.	177+12.00	47.38	600.30	600.30
BK. N. ABUT.	177+14.00	47.38	600.29	600.29

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CHECKED - J.J.G.	REVISED -	
PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK SLAB ELEVATIONS V
STRUCTURE NO. 016-1302**

SHEET NO. S11 OF 47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	78
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

GIRDER 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. S. ABUT.	174+98.00	54.88	600.00	600.00
CL. Brg. S. Abut.	175+00.00	54.88	600.02	600.02
A	175+10.00	54.88	600.12	600.16
B	175+20.00	54.88	600.22	600.30
C	175+30.00	54.88	600.31	600.40
D	175+40.00	54.88	600.39	600.47
E	175+50.00	54.88	600.46	600.51
F	175+60.00	54.88	600.52	600.53
CL. Brg. Pier 1	175+67.00	54.88	600.55	600.55
G	175+77.00	54.88	600.59	600.59
H	175+87.00	54.88	600.62	600.64
I	175+97.00	54.88	600.63	600.67
J	176+07.00	54.88	600.64	600.68
K	176+17.00	54.88	600.63	600.67
L	176+27.00	54.88	600.61	600.63
M	176+37.00	54.88	600.58	600.58
CL. Brg. Pier 2	176+45.00	54.88	600.55	600.55
N	176+55.00	54.88	600.50	600.52
P	176+65.00	54.88	600.44	600.49
Q	176+75.00	54.88	600.37	600.45
R	176+85.00	54.88	600.31	600.40
S	176+95.00	54.88	600.25	600.32
T	177+05.00	54.88	600.19	600.22
CL. Brg. N. Abut.	177+12.00	54.88	600.14	600.14
BK. N. ABUT.	177+14.00	54.88	600.13	600.13

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	CHECKED - J.J.G.	REVISED -
PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	79
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	-37.00	600.34
A1	174+79.00	-37.00	600.43
A2	174+89.00	-38.00	600.51
N. End S. Appr. Slab	174+99.00	-38.00	600.61

WEST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	-32.00	600.44
A1	174+79.00	-32.00	600.54
A2	174+89.00	-32.00	600.64
N. End S. Appr. Slab	174+99.00	-32.00	600.74

CROWN

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	-6.00	600.98
A1	174+79.00	-6.00	601.08
A2	174+89.00	-6.00	601.18
N. End S. Appr. Slab	174+99.00	-6.00	601.28

CL IL Rte. 83 & P.G.

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	0.00	600.86
A1	174+79.00	0.00	600.95
A2	174+89.00	0.00	601.05
N. End S. Appr. Slab	174+99.00	0.00	601.15

STAGE CONSTRUCTION LINE

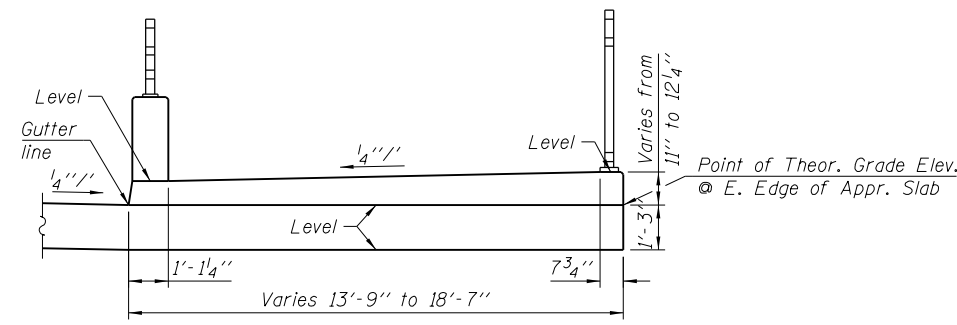
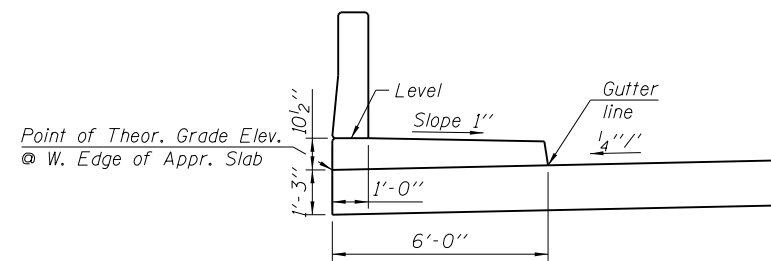
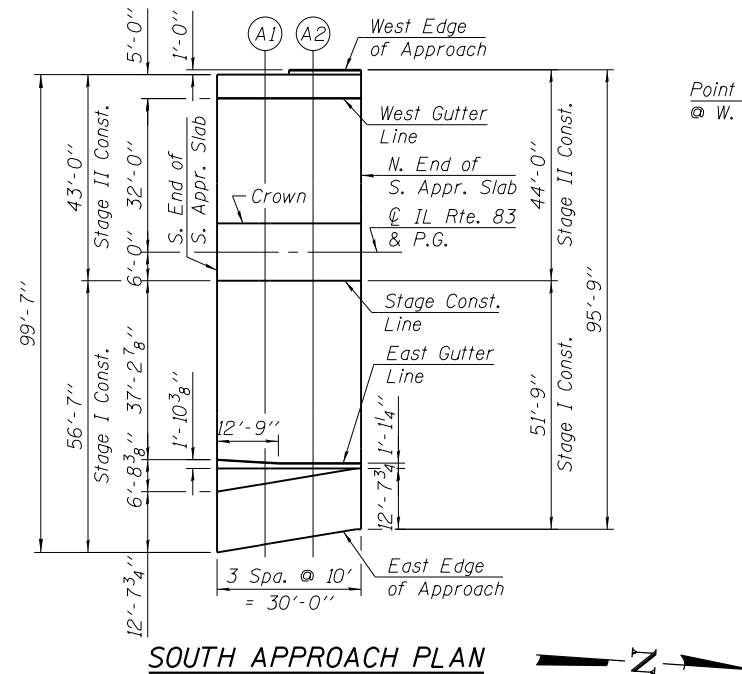
Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	6.00	600.73
A1	174+79.00	6.00	600.83
A2	174+89.00	6.00	600.93
N. End S. Appr. Slab	174+99.00	6.00	601.03

EAST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	43.24	599.96
A1	174+79.00	43.40	600.05
A2	174+89.00	44.00	600.14
N. End S. Appr. Slab	174+99.00	44.00	600.24

EAST EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	174+69.00	62.58	599.96
A1	174+79.00	60.92	600.05
A2	174+89.00	59.25	600.14
N. End S. Appr. Slab	174+99.00	57.75	600.24



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PLOT DATE =	DRAWN - D.L.G.	REVISED -
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	80
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	-38.00	600.74
A3	177+23.00	-38.00	600.68
A4	177+33.00	-37.00	600.63
N. End N. Appr. Slab	177+43.00	-37.00	600.57

WEST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	-32.00	600.86
A3	177+23.00	-32.00	600.80
A4	177+33.00	-32.00	600.74
N. End N. Appr. Slab	177+43.00	-32.00	600.68

CROWN

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	-6.00	601.41
A3	177+23.00	-6.00	601.34
A4	177+33.00	-6.00	601.28
N. End N. Appr. Slab	177+43.00	-6.00	601.22

CL IL Rte. 83 & P.G.

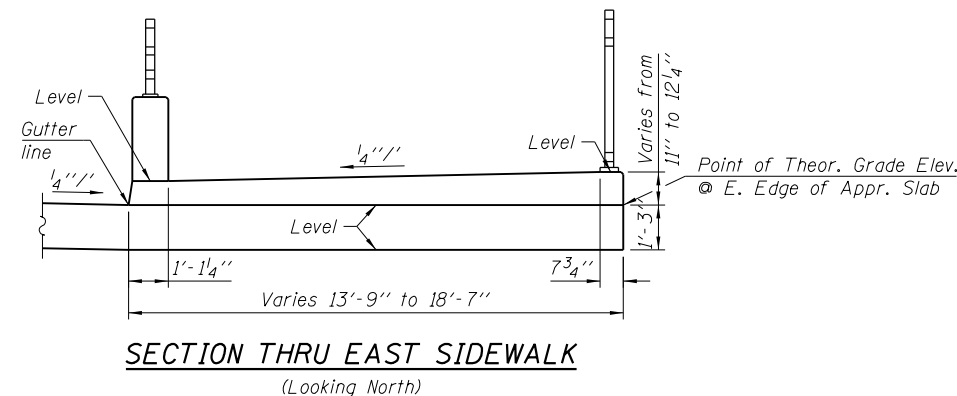
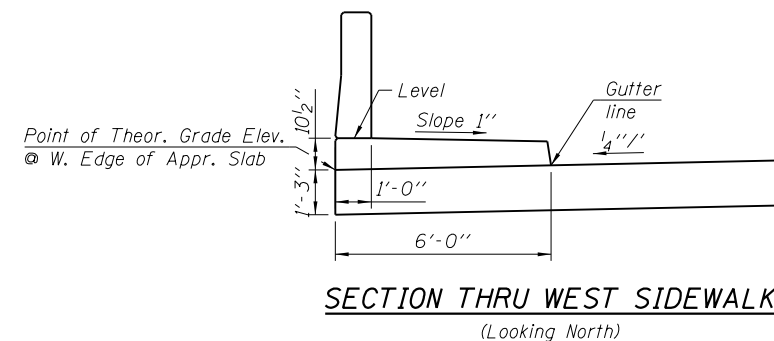
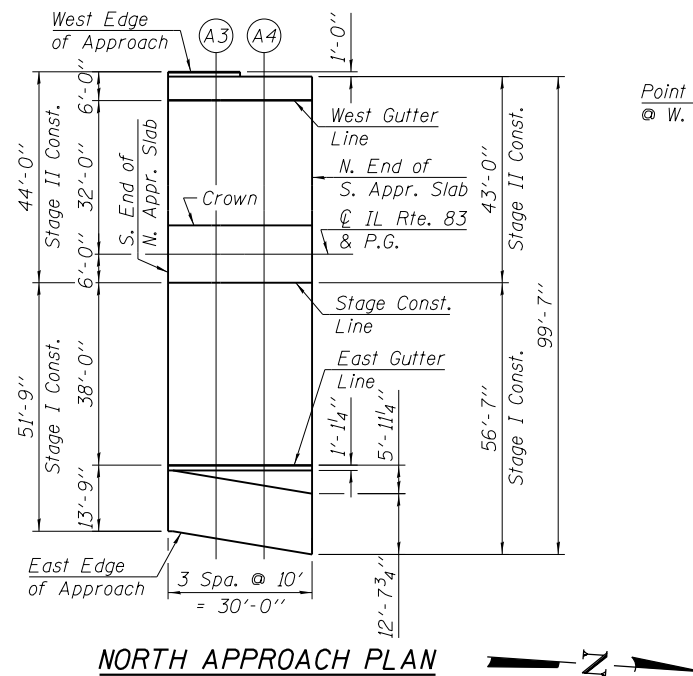
Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	0.00	601.28
A3	177+23.00	0.00	601.22
A4	177+33.00	0.00	601.15
N. End N. Appr. Slab	177+43.00	0.00	601.09

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	6.00	601.16
A3	177+23.00	6.00	601.09
A4	177+33.00	6.00	601.03
N. End N. Appr. Slab	177+43.00	6.00	600.97

EAST GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	44.00	600.36
A3	177+23.00	44.00	600.30
A4	177+33.00	44.00	600.24
N. End N. Appr. Slab	177+43.00	44.00	600.18



EAST EDGE OF APPROACH

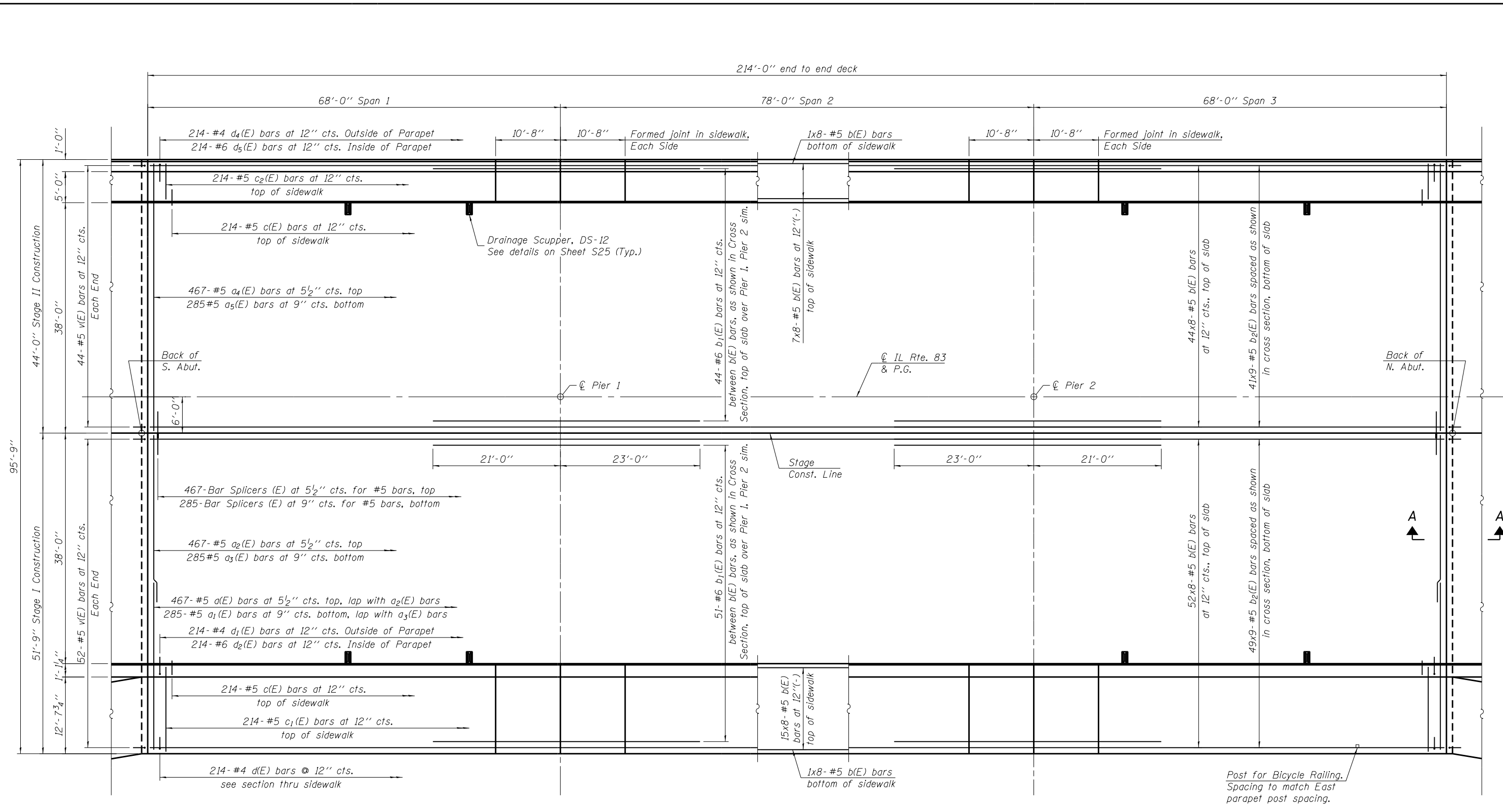
Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	177+13.00	57.75	600.36
A3	177+23.00	59.25	600.30
A4	177+33.00	60.92	600.24
N. End N. Appr. Slab	177+43.00	62.58	600.18

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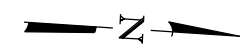
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	DATE - 01/23/2018	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	81
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

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PLAN



MINIMUM BAR LAP
 #5 bar = 3'-3"

NOTES

1. Work this sheet with sheets S16 thru S19.
2. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
3. See Sheet S1 for Drainage Scupper Locations.

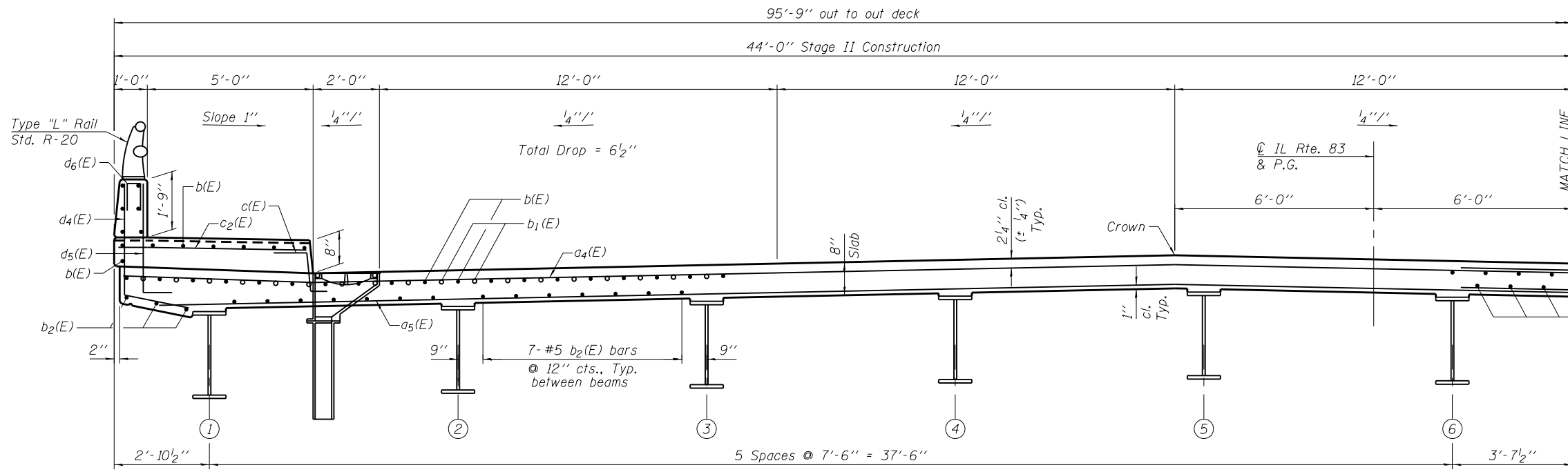
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 Chicago, Illinois 60631; (773) 399-0112

USER NAME =	DESIGNED - E.E.J.	REVISED -
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PLOT SCALE =	DRAWN - D.L.G.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

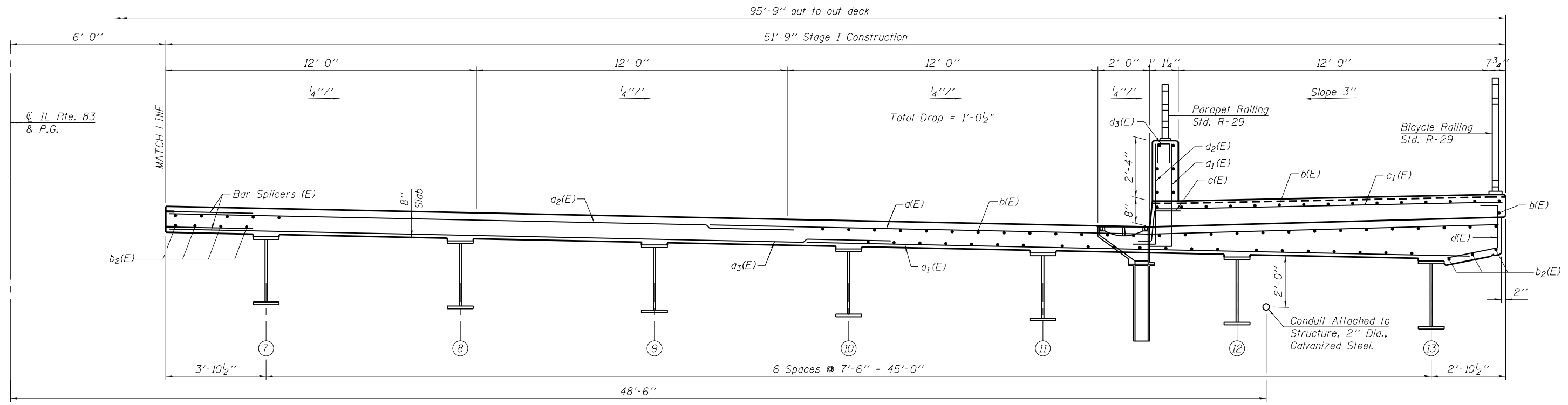
**DECK PLAN
 STRUCTURE NO. 016-1302**
 SHEET NO. S15 OF 47 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	82
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



CROSS SECTION (STAGE II CONSTRUCTION)
(Looking North)

NOTES
1. Electrical Conduit, 2" diameter, shown between Girders 12 & 13 shall be supported from the bridge deck. The method shall be proposed by the Contractor & approved by the Engineer before construction is begun. See Traffic Signal Interconnect Plans.



CROSS SECTION (STAGE I CONSTRUCTION)
(Looking North)

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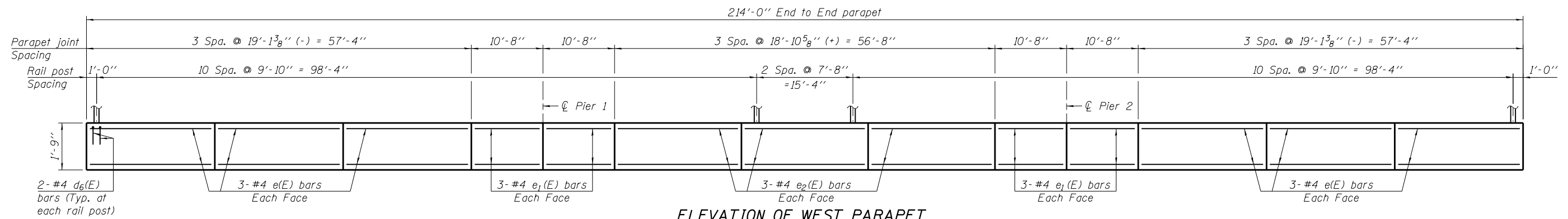
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DEPARTMENT OF TRANSPORTATION

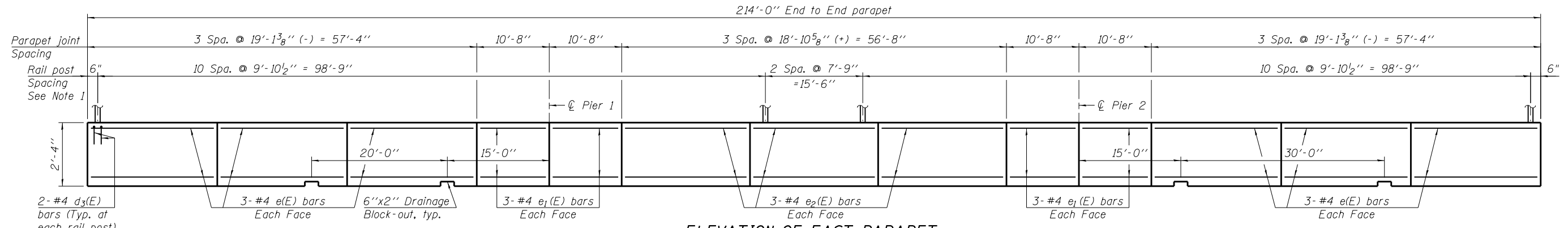
DECK CROSS SECTION
STRUCTURE NO. 016-1302

SHEET NO. S16 OF 47 SHEETS

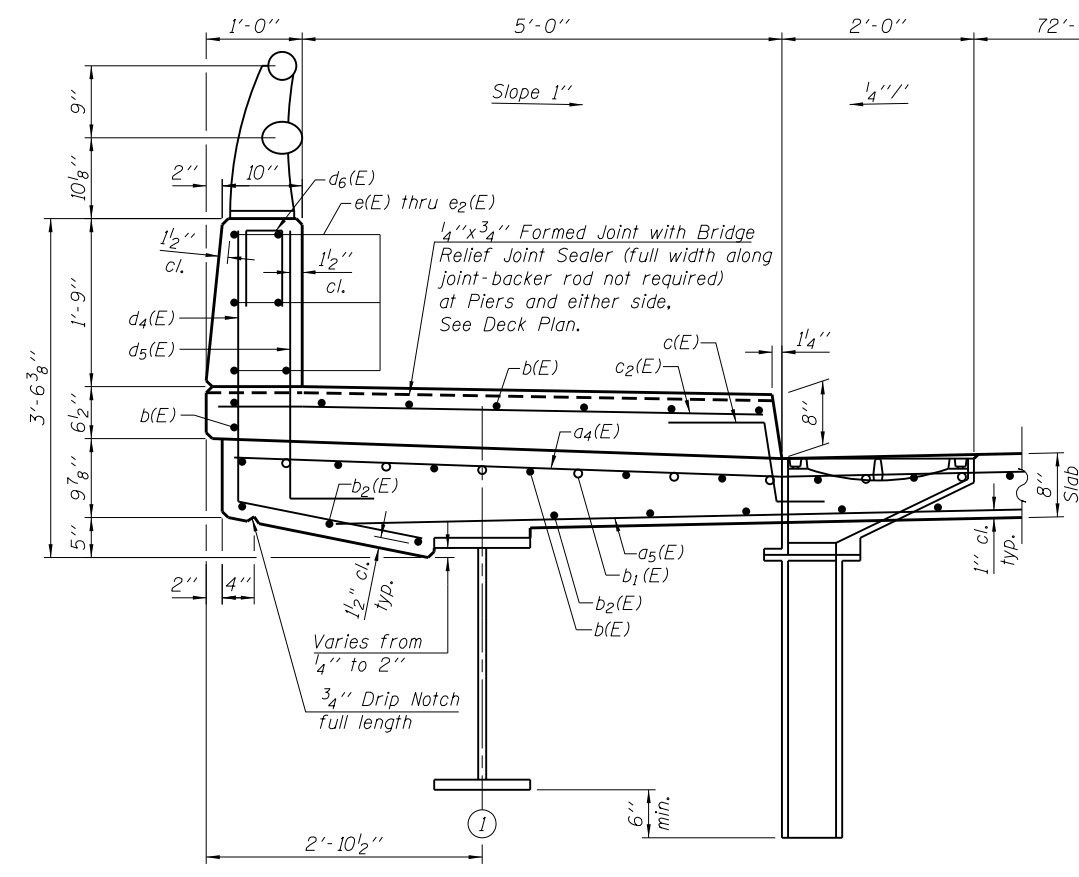
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	83
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



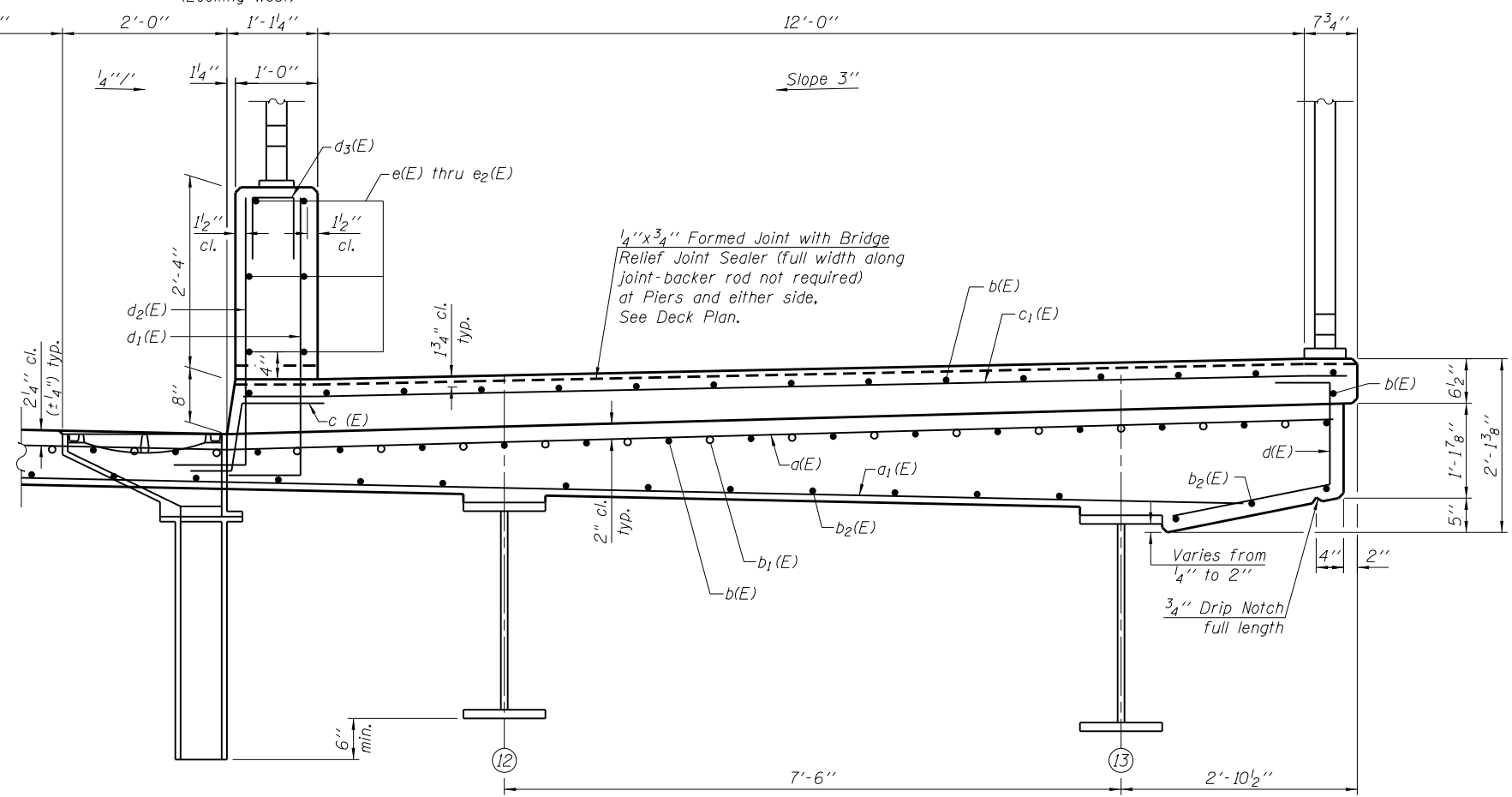
ELEVATION OF WEST PARAPET
(Looking West)



ELEVATION OF EAST PARAPET
(Looking West)



SECTION THRU WEST SIDEWALK & PARAPET
(Looking North)



SECTION THRU EAST SIDEWALK AND PARAPET
(Looking North)

NOTES
1. Bicycle Railing post spacing shall match East Parapet Railing post spacing.

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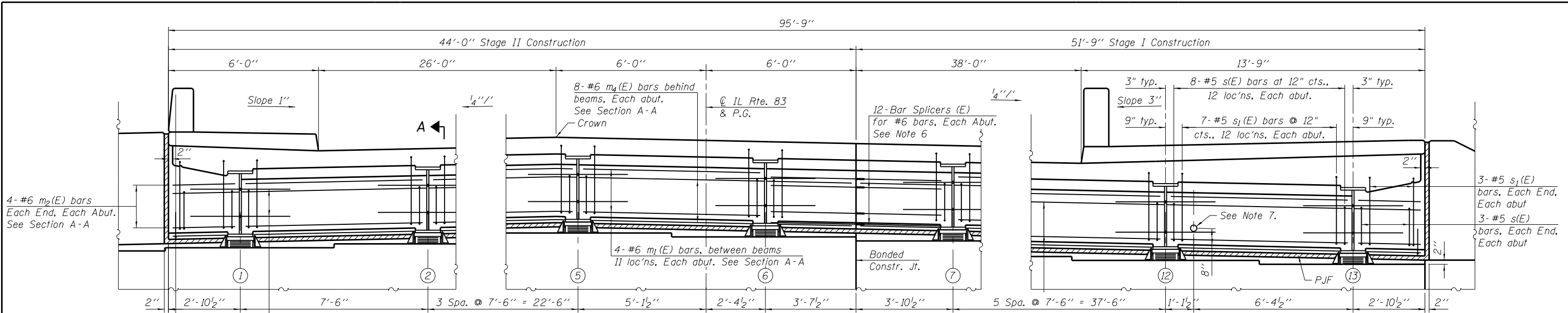
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PLOT DATE =	DATE - 01/23/2018	REVISED -

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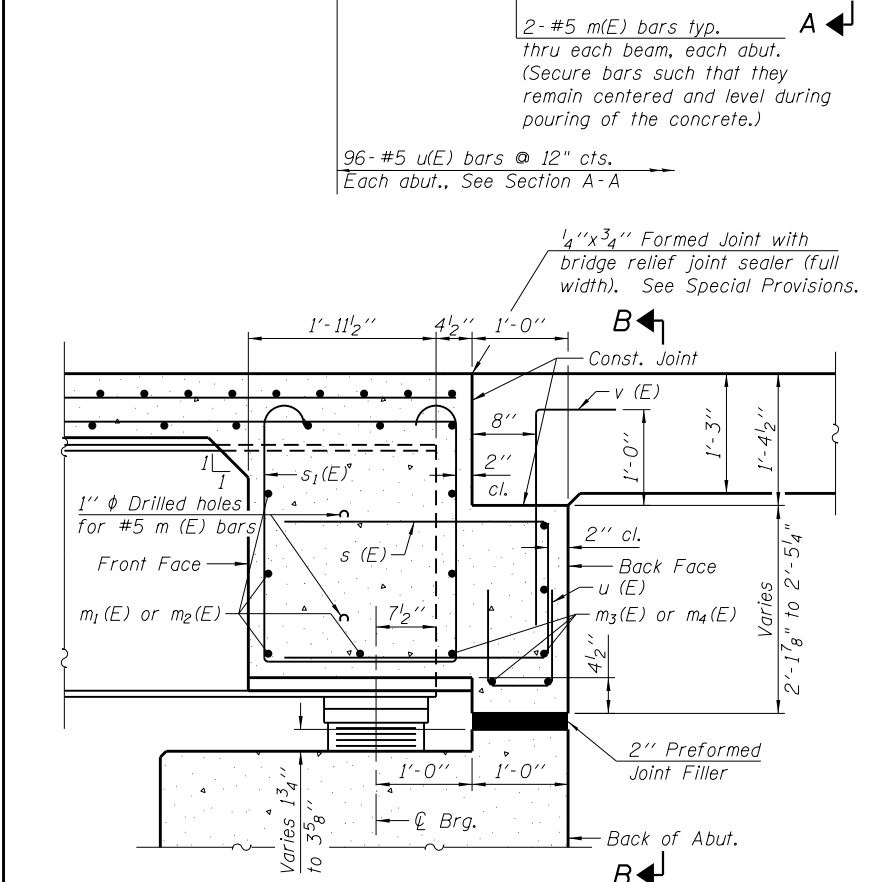
DECK PARAPETS
STRUCTURE NO. 016-1302
SHEET NO. S17 OF 47 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	84
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

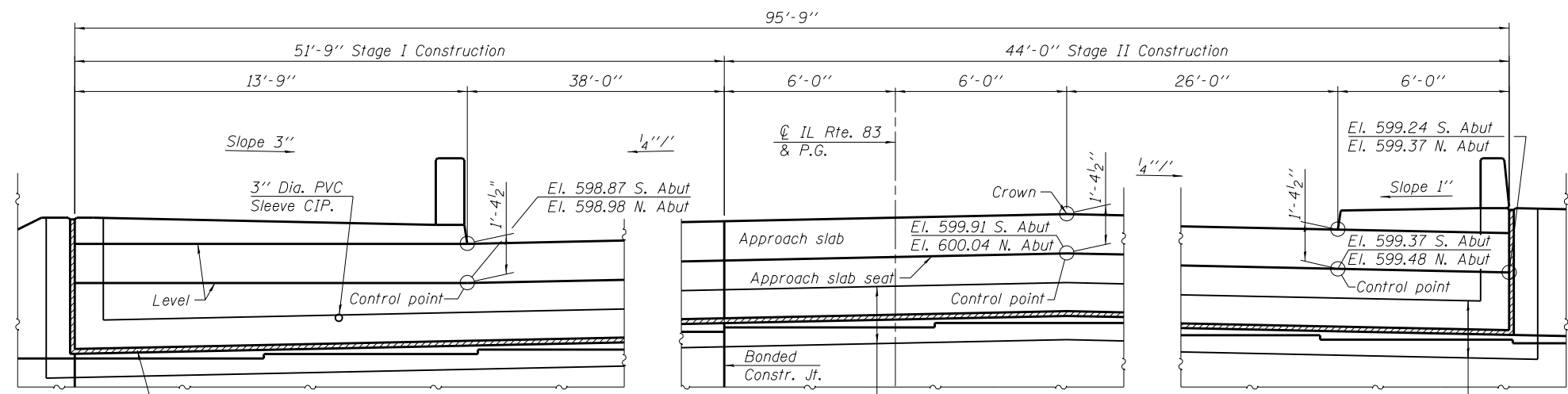


DIAPHRAGM ELEVATION AT NORTH ABUTMENT
(Looking North)
(South Abut. similar, opp. hand)

MINIMUM BAR LAP
#6 bar = 4'-5"



SECTION A-A



VIEW B-B

Fabric Reinforced Elastomeric Mat according to Section 1028 of the Std. Specs. Fabric mat shall be 24" wide and attached full width and vertically at edges to the abutment diaphragm with a 3/8" x 5" steel plate and 1/2" diameter studs with nuts and washers at 12" cts. See Sheet S35. Cost included with Concrete Superstructure

NOTES

1. Reinforcement bars in diaphragm are billed with superstructure on sheet S19.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet S19.
3. For details of bars s(E), s1(E), u(E) and v(E) see sheet S19.
4. The approach slab seat shall have a constant slope determined from the control points shown.
5. For bearing details see sheet S29.
6. Bar splicers in Front Face of diaphragm do not lap with any #6 bars. Cut bar splicers to fit between beams.
7. Cast 3" Dia. PVC Sleeve into & thru both abutment diaphragms for Conduit Attached to Structure, 2" Dia., Galvanized Steel. Grout annular space to prevent seepage. Cost included with Concrete Structures.

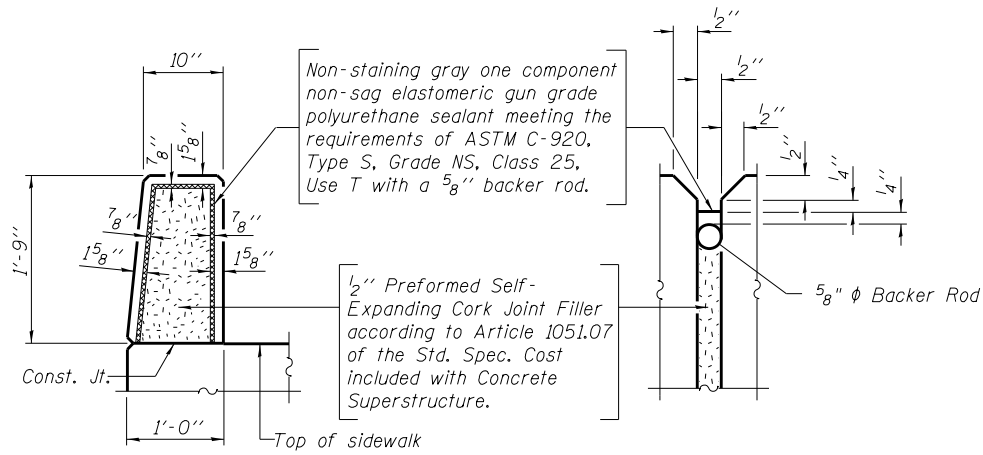
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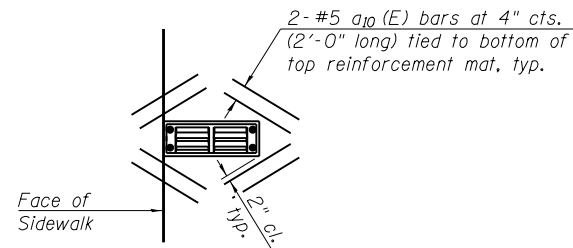
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CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

**SUPERSTRUCTURE
BILL OF MATERIAL**

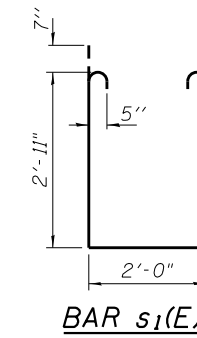
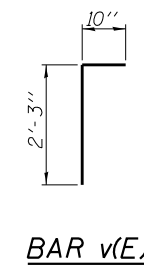
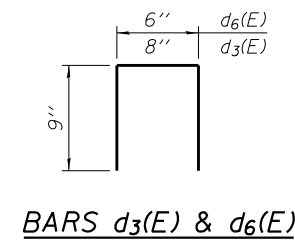
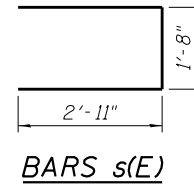
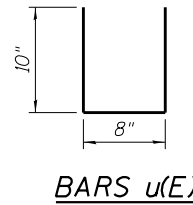
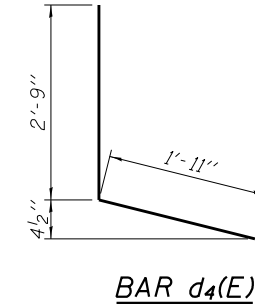
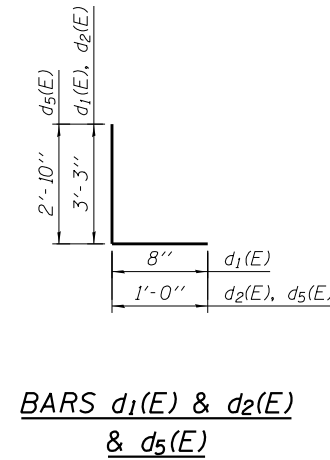
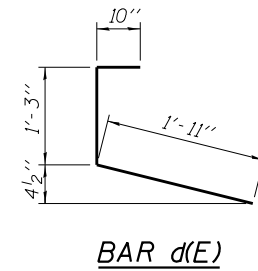
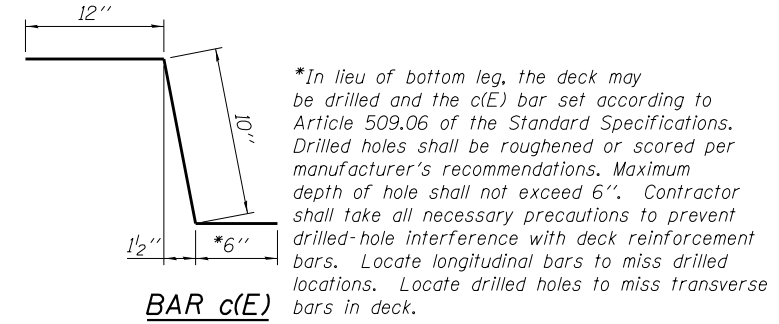
Bar	No.	Size	Length	Shape
a(E)	467	#5	30'-5"	—
a ₁ (E)	285	#5	26'-8"	—
a ₂ (E)	467	#5	24'-1"	—
a ₃ (E)	285	#5	27'-10"	—
a ₄ (E)	467	#5	43'-6"	—
a ₅ (E)	285	#5	43'-2"	—
a ₁₀ (E)	64	#5	2'-0"	—
b(E)	960	#5	29'-7"	—
b ₁ (E)	190	#6	44'-0"	—
b ₂ (E)	810	#5	26'-8"	—
c(E)	428	#5	2'-4"	┌
c ₁ (E)	214	#5	13'-4"	—
c ₂ (E)	214	#5	5'-7"	—
d(E)	214	#4	4'-0"	┌
d ₁ (E)	214	#4	3'-11"	┌
d ₂ (E)	214	#6	4'-3"	┌
d ₃ (E)	46	#4	2'-2"	┌
d ₄ (E)	214	#4	4'-8"	┌
d ₅ (E)	214	#6	3'-10"	┌
d ₆ (E)	46	#4	2'-0"	┌
e(E)	72	#4	18'-9"	—
e ₁ (E)	48	#4	10'-4"	—
e ₂ (E)	36	#4	18'-6"	—
m(E)	52	#5	4'-0"	—
m ₁ (E)	88	#6	7'-2"	—
m ₂ (E)	16	#6	2'-6"	—
m ₃ (E)	32	#6	27'-11"	—
m ₄ (E)	16	#6	43'-8"	—
s(E)	204	#5	7'-6"	┌
s ₁ (E)	180	#5	9'-0"	┌
u(E)	192	#5	2'-4"	┌
v(E)	192	#5	3'-1"	┌
Reinforcement Bars, Epoxy Coated	Pound		161,060	
Concrete Superstructure	Cu. Yds.		767.8	



WEST PARAPET JOINT DETAILS
(East Parapet Jt. Details are similar)



DETAILS AT SCUPPER
Note:
Cut longitudinal reinforcement to clear drainage scuppers.

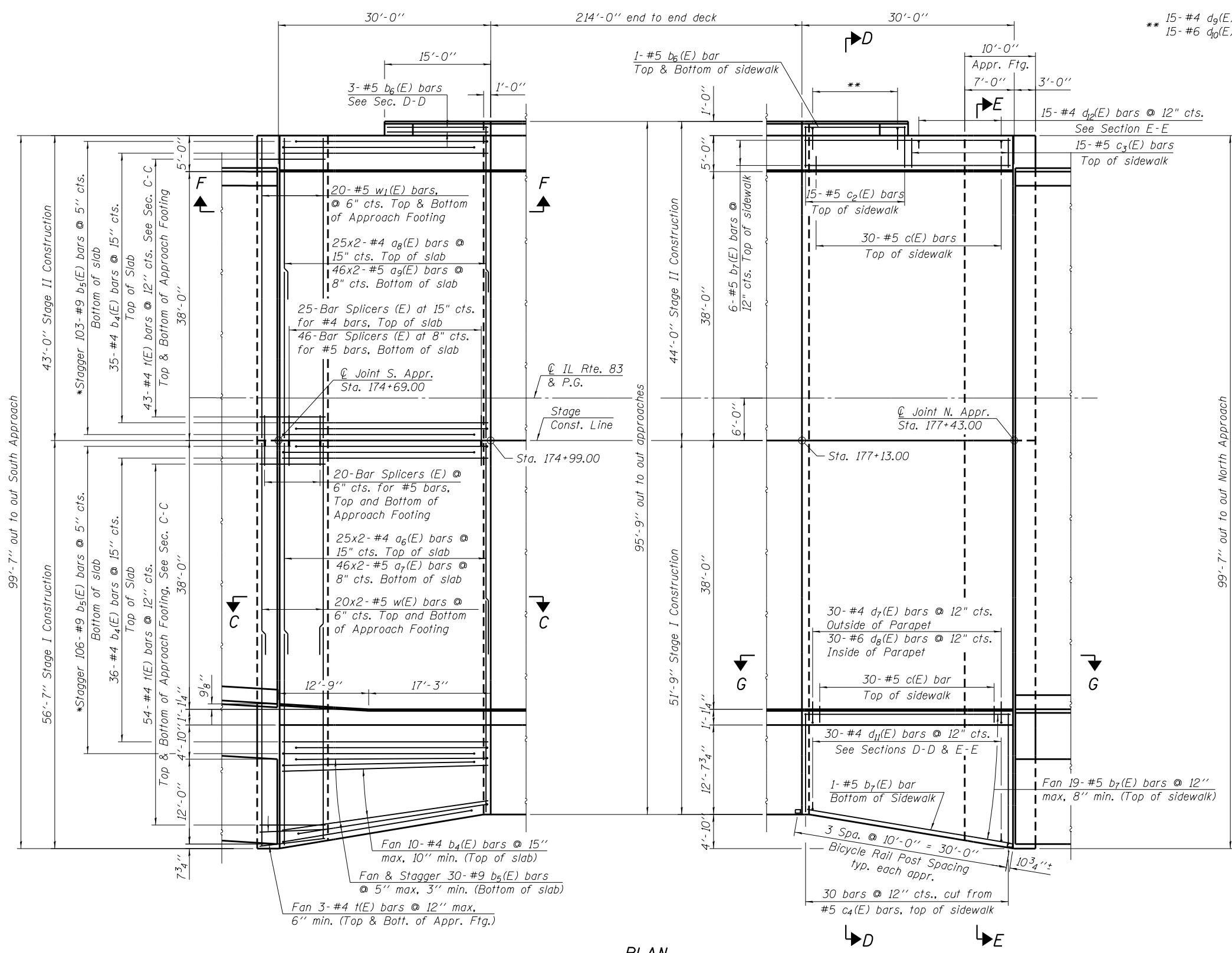


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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60K78			ILLINOIS FED. AID PROJECT	

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** 15- #4 d₉(E) bars @ 12" cts. Outside of Parapet
 15- #6 d₁₀(E) bars @ 12" cts. Inside of Parapet

MINIMUM BAR LAP

#4 bar = 2'-11"

#5 bar = 3'-3"

PLAN

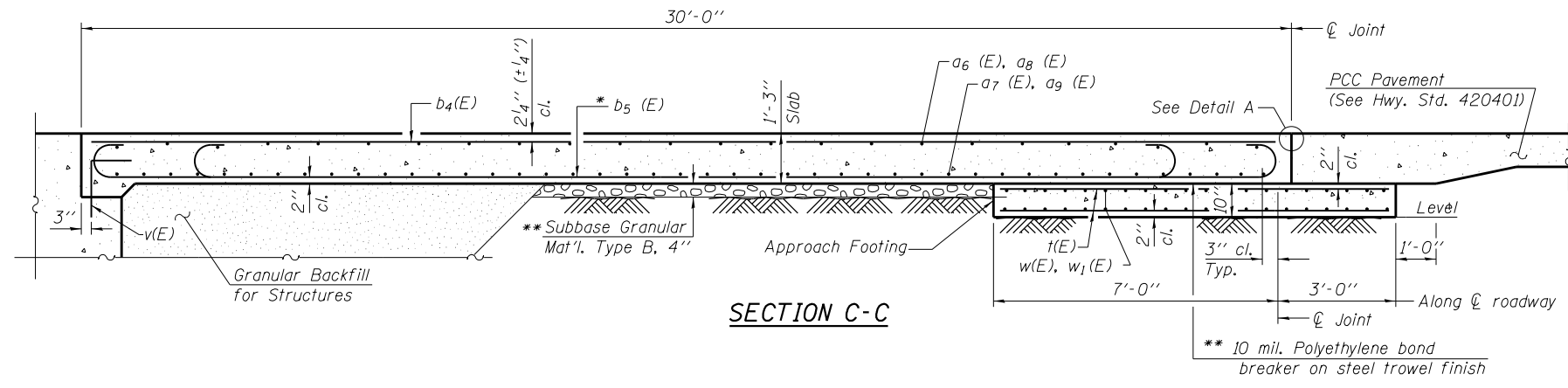
* Tilt #9 b₅(E) bars as required to maintain clearance

NOTES

1. Work this sheet with sheets S21 and S22.
2. North Approach reinforcement shall mirror South Approach reinforcement.
3. Bars indicated thus 20x3- #5 etc. indicates 20 lines of bars with 3 lengths per line.

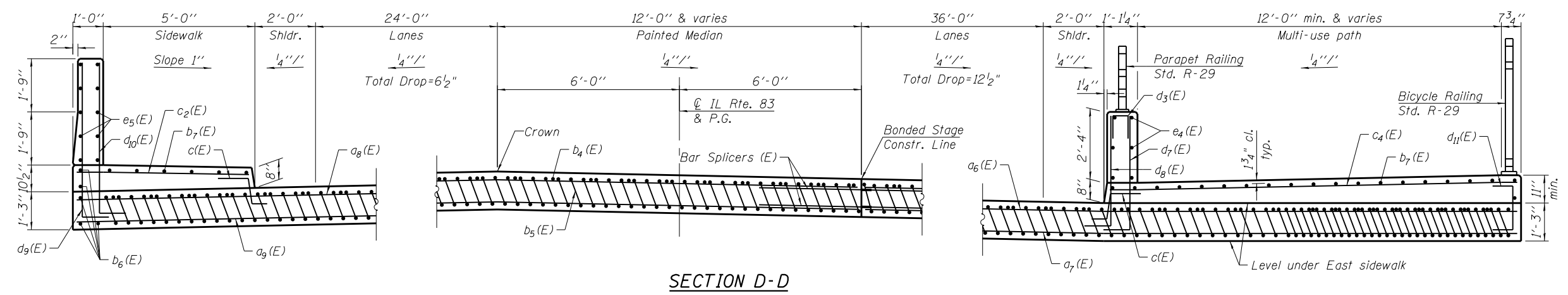
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	87
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

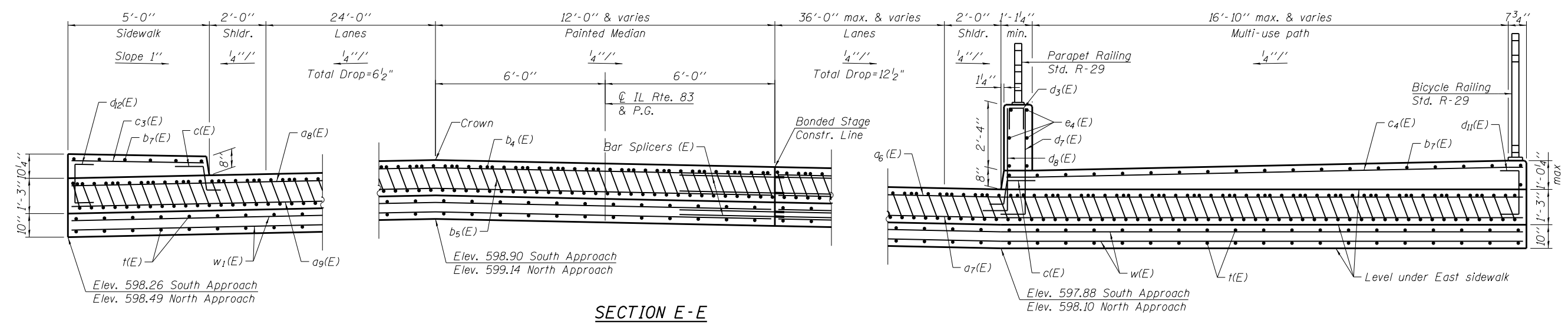


* Tilt #9 b₅ (E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure (Approach Slab).

SECTION C-C



SECTION D-D



SECTION E-E

NOTES

1. Work this sheet with sheets S20 and S22.

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PLOT DATE =	DATE - 01/23/2018	REVISED -

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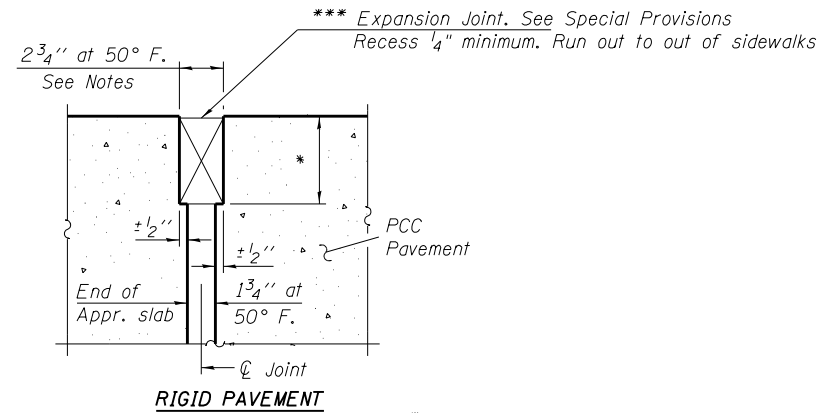
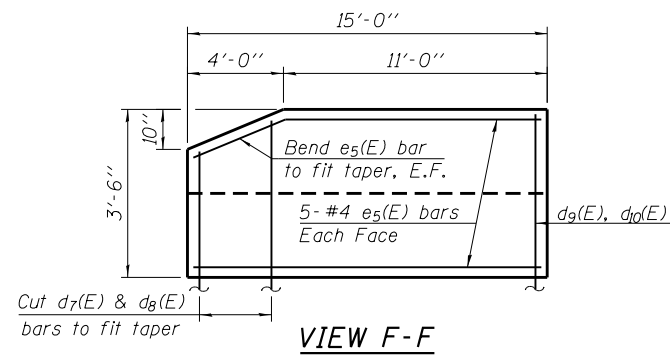
**BRIDGE APPROACH SLAB DETAILS I
 STRUCTURE NO. 016-1302**

SHEET NO. S21 OF 47 SHEETS

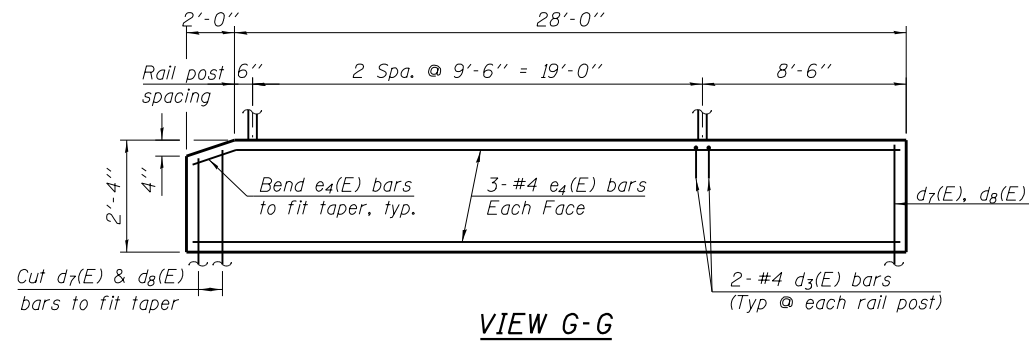
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	88
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

**APPROACH SLAB
BILL OF MATERIAL**

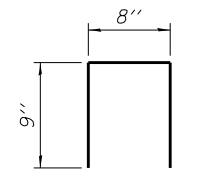
Bar	No.	Size	Length	Shape
a6(E)	100	#4	29'-7"	—
a7(E)	184	#5	29'-9"	—
a8(E)	100	#4	23'-4"	—
a9(E)	184	#5	23'-6"	—
b4(E)	162	#4	29'-8"	—
b5(E)	478	#9	29'-9"	—
b6(E)	10	#5	14'-8"	—
b7(E)	52	#5	29'-8"	—
c(E)	120	#5	2'-4"	—
c2(E)	30	#5	5'-7"	—
c3(E)	30	#5	4'-7"	—
c4(E)	30	#5	31'-6"	—
d3(E)	12	#4	2'-2"	□
d7(E)	60	#4	4'-6"	L
d8(E)	60	#6	4'-10"	L
d9(E)	30	#4	5'-10"	L
d10(E)	30	#6	6'-2"	L
d11(E)	60	#4	3'-0"	C
d12(E)	30	#4	2'-11"	C
e4(E)	12	#4	29'-8"	—
e5(E)	20	#4	14'-8"	—
f(E)	400	#4	9'-8"	—
w(E)	160	#5	29'-10"	—
w1(E)	80	#5	42'-8"	—
Concrete Superstructure			Cu. Yd.	48.2
Concrete Superstructure (Approach Slab)			Cu. Yd.	272.3
Concrete Structures			Cu. Yd.	61.5
Reinforcement Bars, Epoxy Coated			Pound	81,440



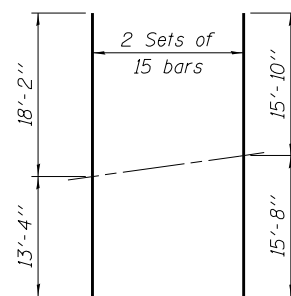
*Per manufacturer recommendations.
*** Cost included with Concrete Superstructure (Approach Slab).



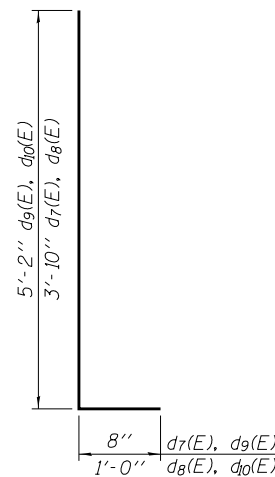
**RIGID PAVEMENT
DETAIL A**



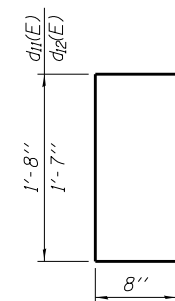
BARS d3(E)



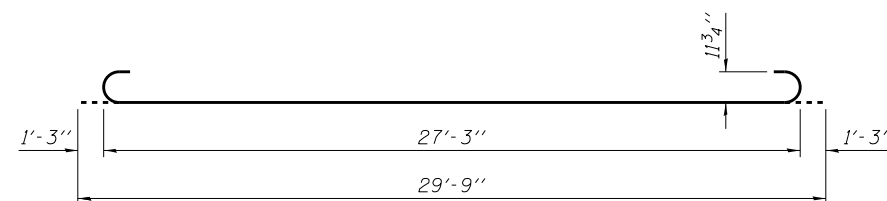
**BAR c4(E)
CUTTING DIAGRAM**



BARS d7(E) THRU d10 (E)



BARS d11 (E) & d12 (E)



BAR b5(E)

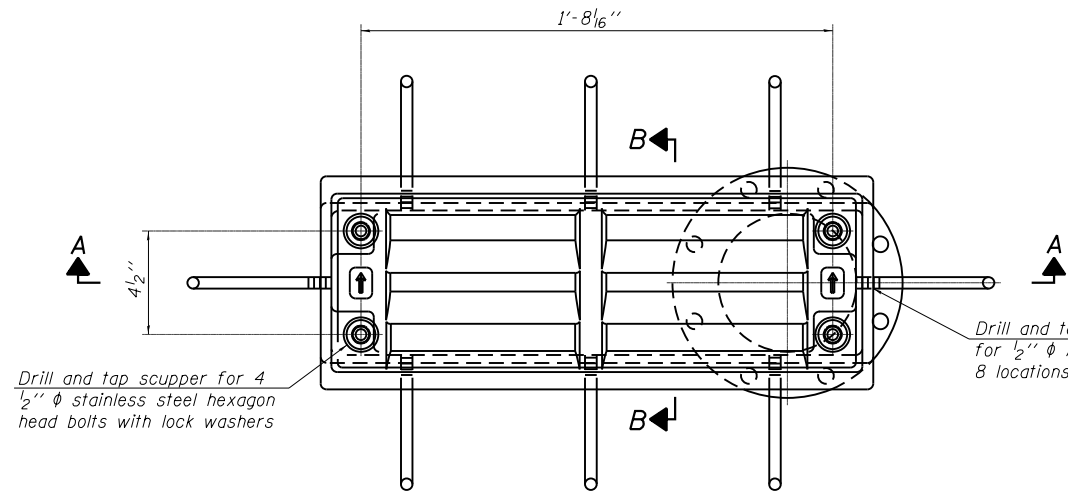
NOTES

1. Work this sheet with sheets S20 and S21.
2. Parapet and sidewalk concrete shall be paid for as Concrete Superstructure.
3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. For v(E) bar details, see sheet S15.
7. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
8. For bar splicer (E) details, see sheet S40.
9. Cost of excavation for approach footing included with Concrete Structures.
10. For Granular Backfill for Structures and drainage treatment details, see sheet S35.
11. For c(E) bar bend detail, see sheet S19.
12. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

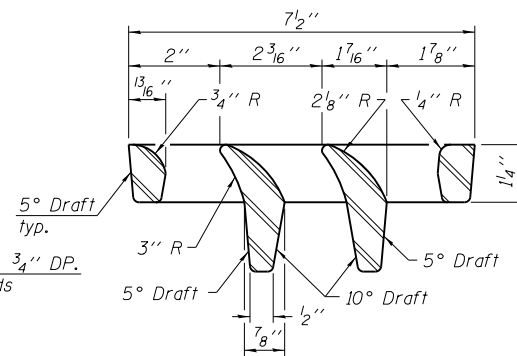
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PLOT DATE =	DATE - 01/23/2018	REVISED -

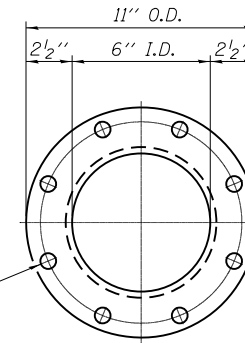
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358	0909.1-B	COOK	138	89
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K78	



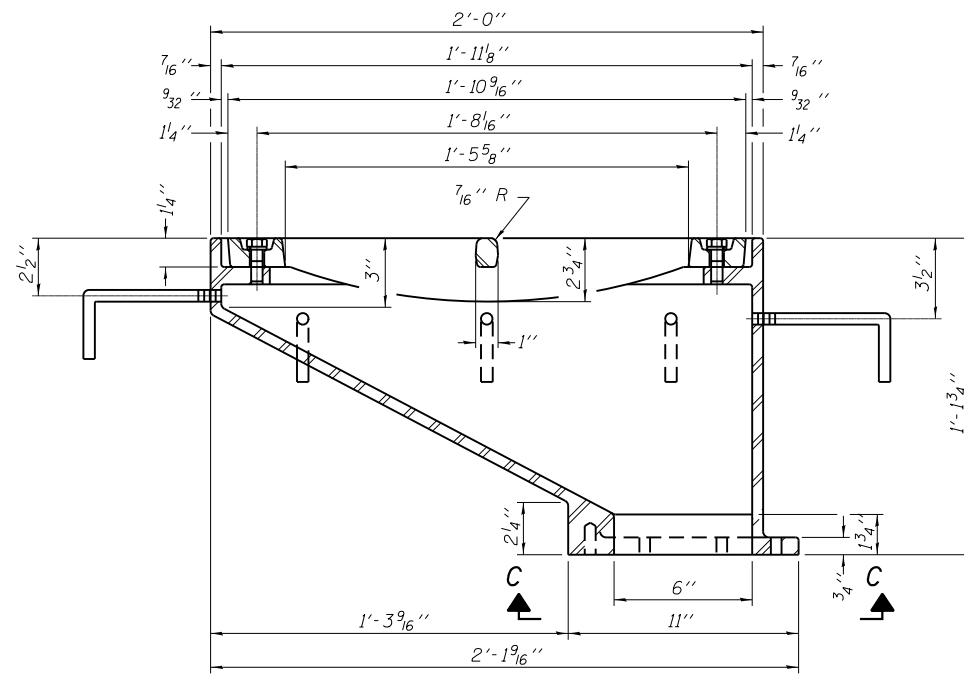
PLAN



VANE GRATE DETAIL

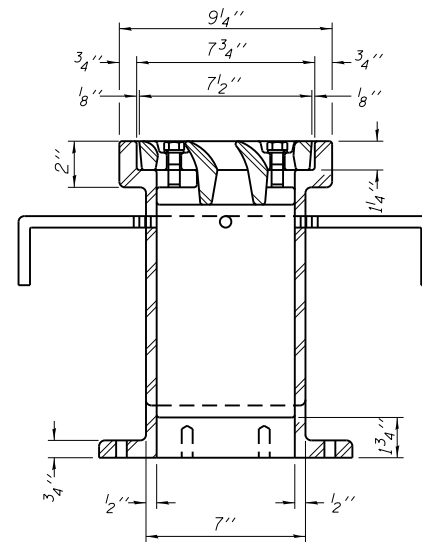


VIEW C-C

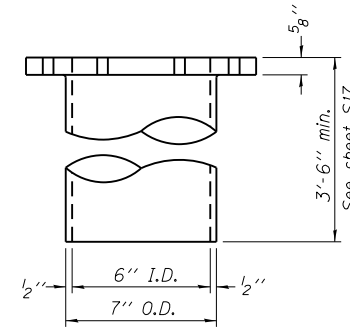


SECTION A-A

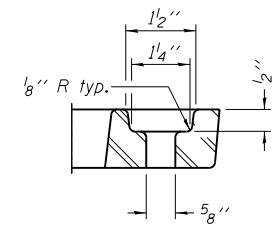
See sheet S17 of 47 for scupper location relative to parapet.



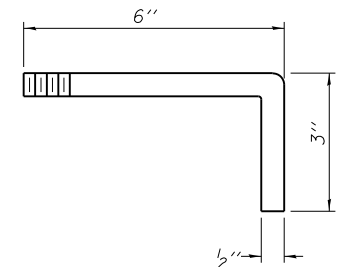
SECTION B-B



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Drill and tap 8 holes for 1/2"-13 bolts on a 9 1/2" φ bolt circle. (2 blind holes are 1/4" deep, 6 thru holes)

Notes:

- All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
- Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
- Floor drains need not be painted.
- As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
- Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
- The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
- Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scuppers, DS-12.
- Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-12	Each	8

DS-12

7-1-10

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GRaeF
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631 (773) 399-0112

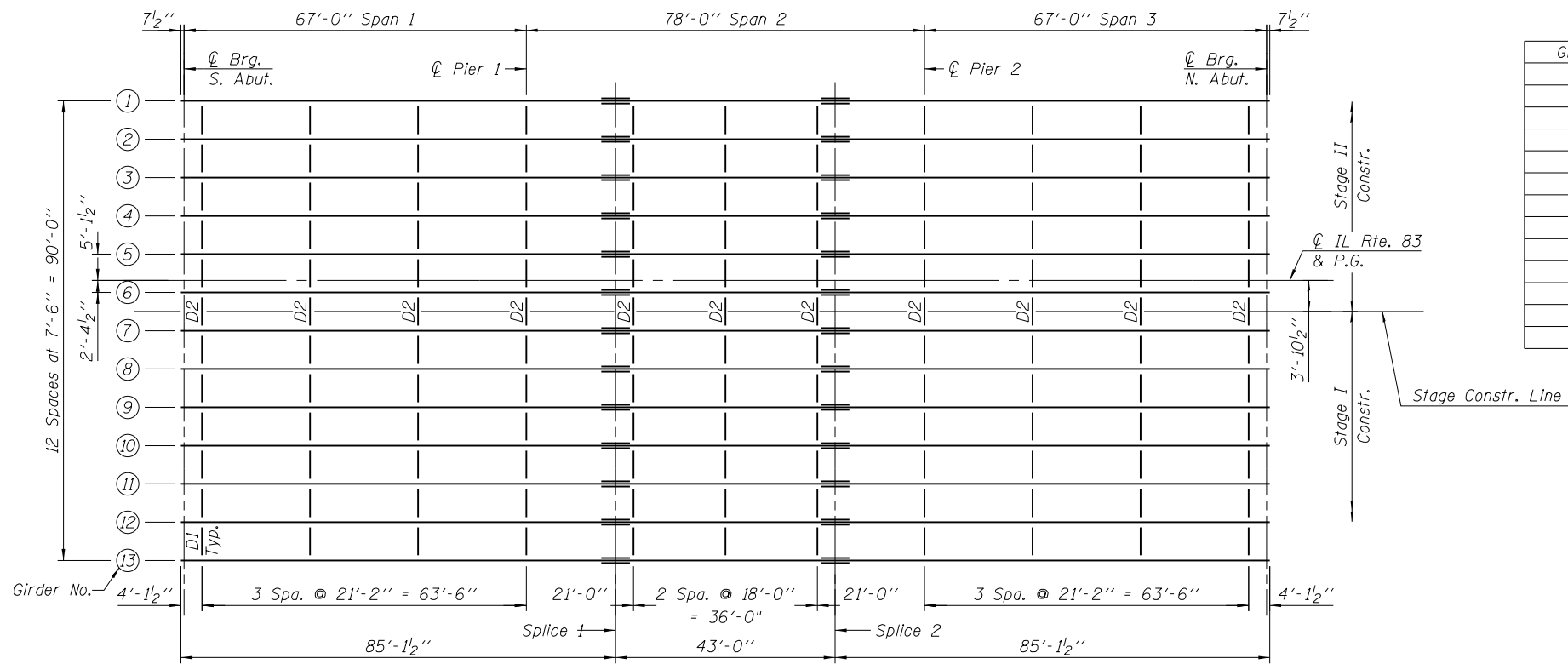
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PLOT DATE =	DATE - 01/23/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCUPPER DS-12
STRUCTURE NO. 016-1302

SHEET NO. S25 OF 47 SHEETS

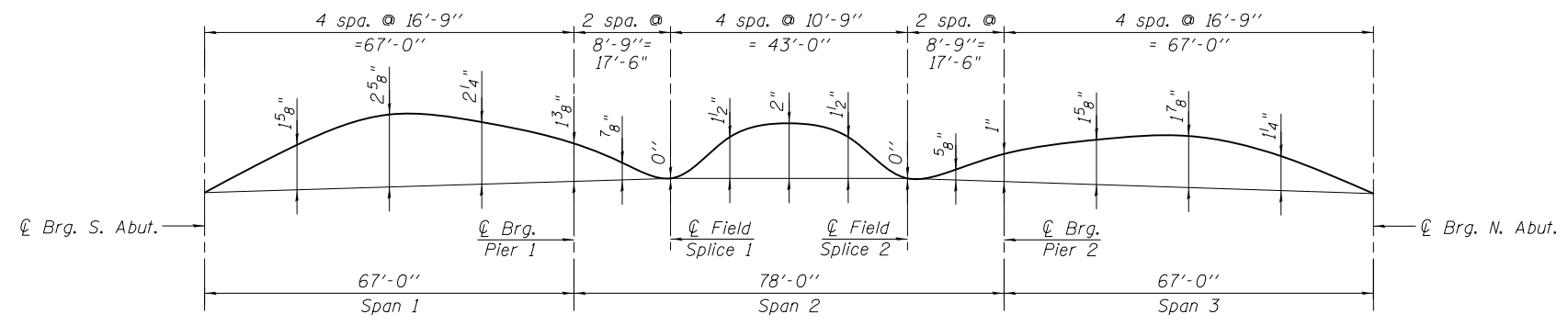
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	92
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN

*Top of Girder Web Elevations
(For Fabrication only)*

Girder No.	CL. BRG. S. ABUT.	CL Brg. Pier 1	CL. SPLICE 1	CL. SPLICE 2	CL Brg. Pier 2	CL. BRG. N. ABUT.
1	599.88	600.39	600.38	600.38	600.39	600.00
2	600.03	600.55	600.54	600.54	600.54	600.16
3	600.19	600.70	600.70	600.70	600.70	600.32
4	600.35	600.86	600.85	600.85	600.86	600.47
5	600.47	600.98	600.97	600.97	600.98	600.59
6	600.31	600.82	600.82	600.82	600.82	600.43
7	600.15	600.67	600.66	600.66	600.66	600.28
8	600.00	600.51	600.50	600.50	600.51	600.12
9	599.84	600.35	600.35	600.35	600.35	599.97
10	599.69	600.20	600.19	600.19	600.20	599.81
11	599.53	600.04	600.04	600.03	600.04	599.65
12	599.37	599.89	599.88	599.88	599.88	599.50
13	599.22	599.73	599.72	599.72	599.73	599.34



CAMBER DIAGRAM

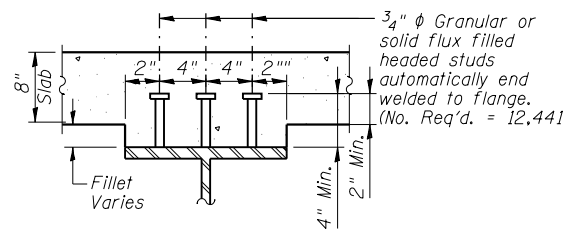
NOTES

1. Work this sheet with sheets S27 and S28.
2. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

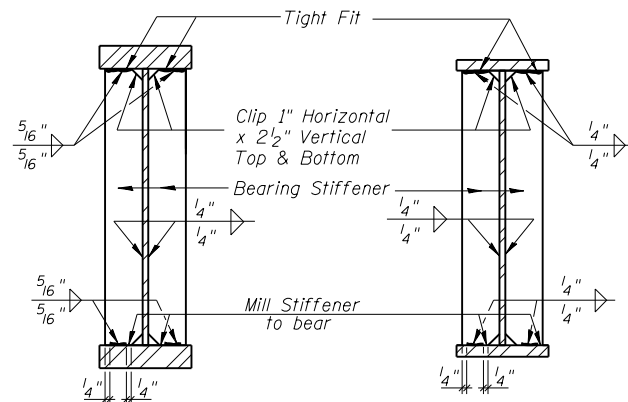
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CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

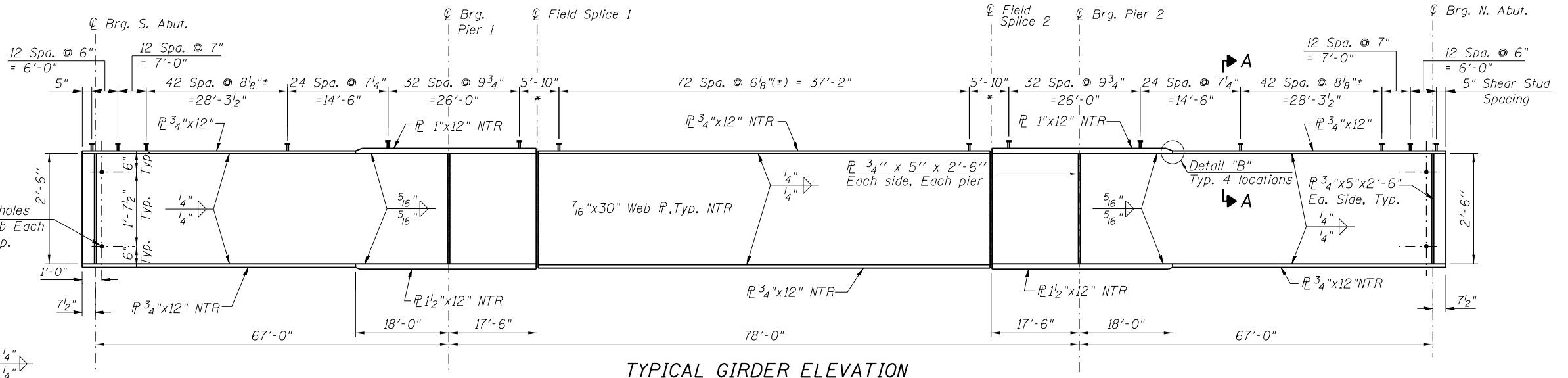


SECTION A-A



SECTION AT PIER

SECTION AT ABUTMENT



TYPICAL GIRDER ELEVATION

* For details, see Splice Details on Sheet S28.

DEFINITIONS

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in^4 and in^3).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in^4 and in^3).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in^4 and in^3).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in^4 and in^3).

DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s ($L + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_L + IM / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.

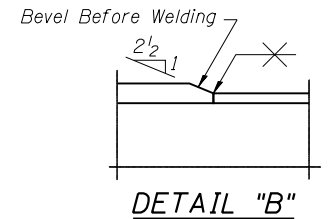
f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (L + IM)$

$0.95 R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (L + IM)$

$\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r : Maximum factored shear range in span computed according to Article 6.10.10.



DETAIL "B"

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 & 0.6 Sp. 3	Pier 1 & Pier 2	0.5 Sp. 2
I_s	(in^4)	5,240	8,116	5,240
$I_c(n)$	(in^4)	14,711	—	14,711
$I_c(3n)$	(in^4)	11,325	—	11,325
$I_c(cr)$	(in^4)	—	11,470	—
S_s	(in^3)	332.7	569.9	332.7
$S_c(n)$	(in^3)	484.2	—	484.2
$S_c(3n)$	(in^3)	446.0	—	446.0
$S_c(cr)$	(in^3)	—	664.1	—
DC1	(k/ft)	0.924	0.965	0.924
M_{DC1}	(k)	285	537	174
DC2	(k/ft)	0.562	0.562	0.562
M_{DC2}	(k)	174	323	105
DW	(k/ft)	0.292	0.292	0.292
M_{DW}	(k)	90	168	54
$M_L + IM$	(k)	727	887	646
M_u (Strength I)	(k)	2,078	3,029	1,634
$\phi_r M_n$	(k)	2,360	3,169	2,463
f_s DC1	(ksi)	10.29	11.30	6.27
f_s DC2	(ksi)	4.66	5.84	2.79
f_s DW	(ksi)	2.42	3.03	1.45
f_s ($L + IM$)	(ksi)	18.00	16.07	15.98
f_s (Service II)	(ksi)	38.66	41.07	31.28
$0.95 R_n F_y f$	(ksi)	47.50	47.50	47.5
f_s (Total Strength I)	(ksi)	41.55	48.05	41.1
$\phi_r F_n$	(ksi)	50.0	50.0	50.0
V_f	(k)	21.58	36.91	22.62

INTERIOR GIRDER REACTION TABLE			
	S. & N. Abut.	Pier 1 & Pier 2	
R_{DC1}	(k)	59.23	76.38
R_{DC2}	(k)	14.00	45.58
R_{DW}	(k)	7.27	23.68
$R_L + IM$	(k)	76.42	120.79
R_{Total}	(k)	156.92	266.43

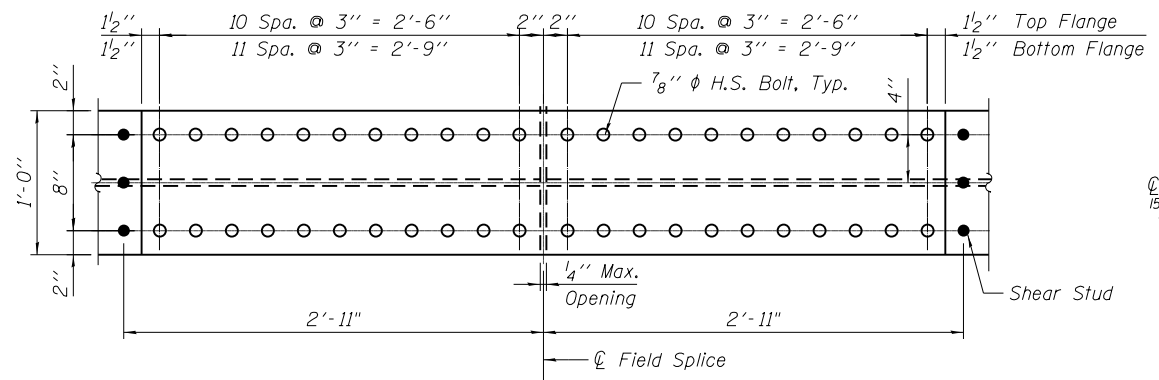
NOTES

1. Work this sheet with sheets S26 and S28.
2. Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.
3. All Structural Steel on this sheet shall be AASHTO M270 Grade 50W Steel.

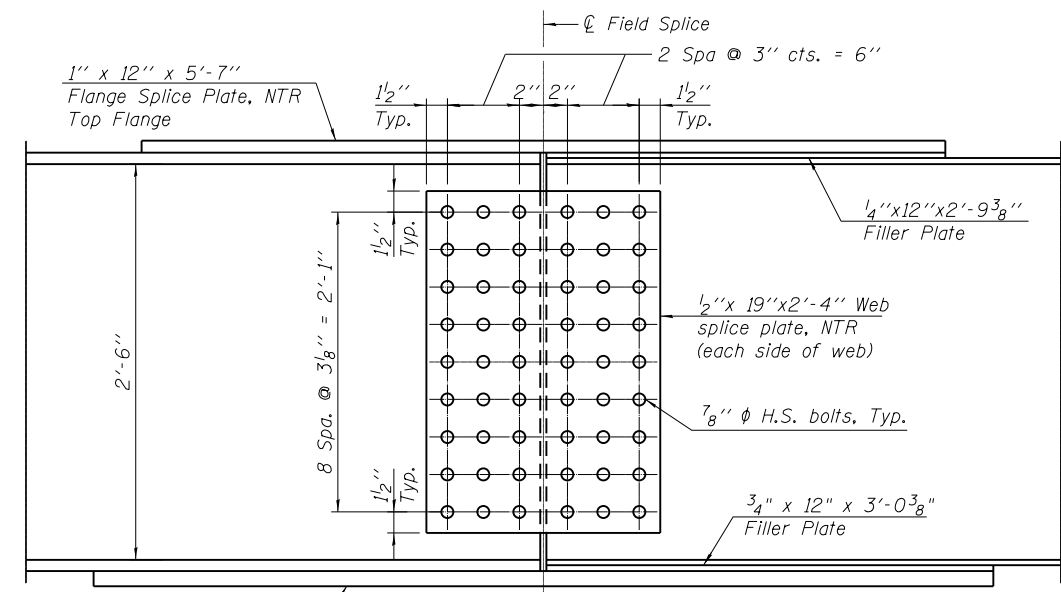
BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	12,441

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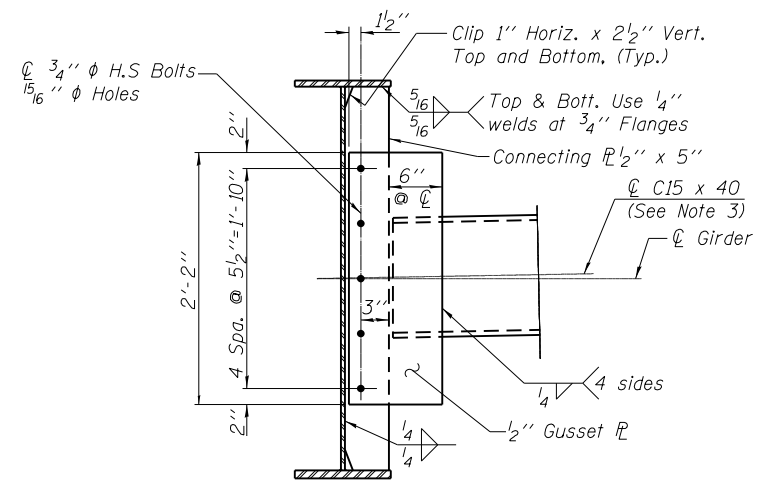
FLANGE SPLICE



WEB SPLICE

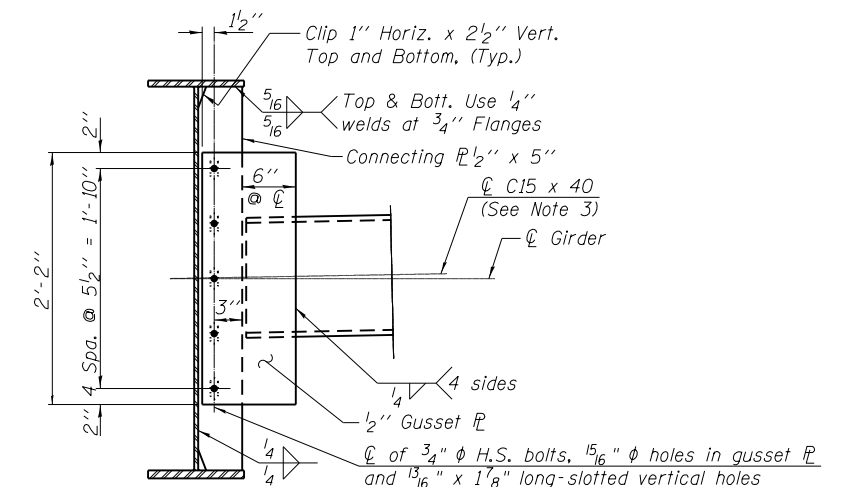
FIELD SPLICES 1 & 2

(Looking West at Field Splice 1
Looking East at Field Splice 2)



INTERIOR DIAPHRAGM - D1

(121 Required)



INTERIOR DIAPHRAGM - D2

(11 Required)

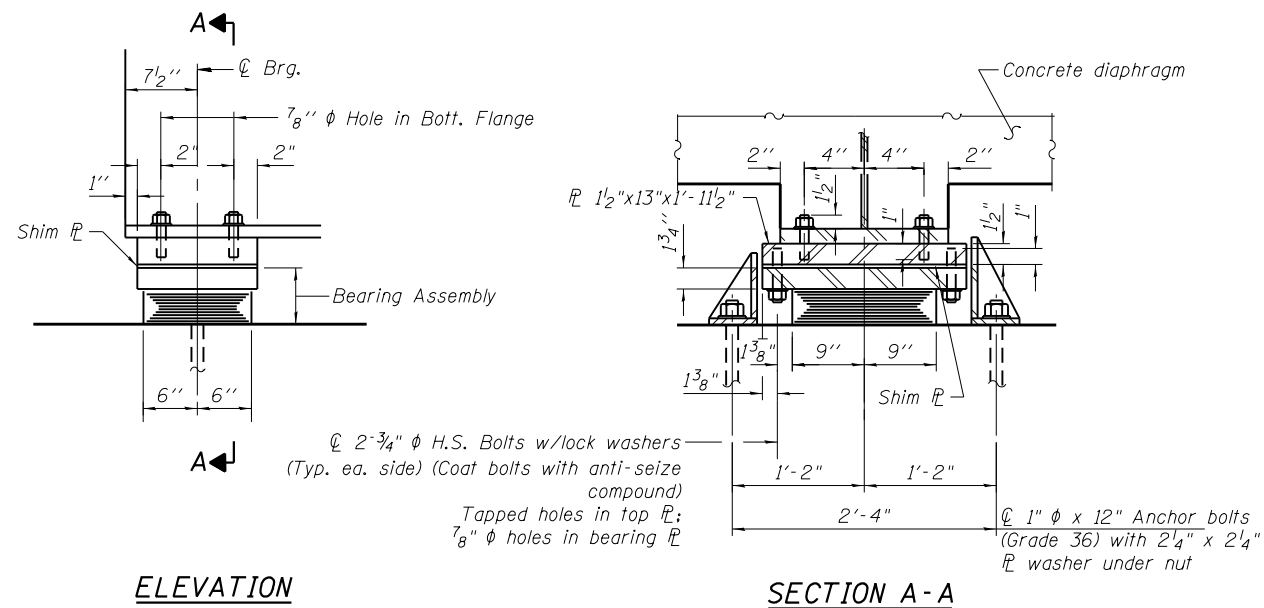
NOTES

- All Structural Steel on this sheet shall be AASHTO M270 Grade 50W.
- Two hardened washers are required for each set of oversized holes.
- Alternate C15x50 diaphragm channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40. The alternate, if utilized, shall be provided at no extra cost to the Department.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at support may be temporarily disconnected to install bearing anchor rods.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

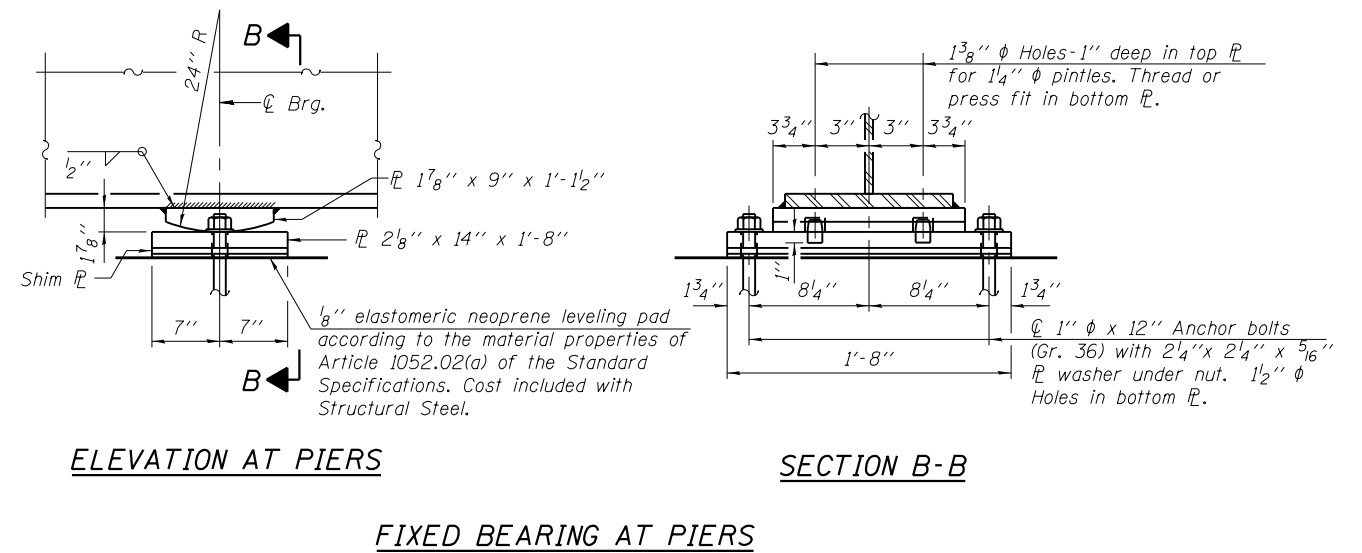
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PLOT DATE =	DATE - 01/23/2018	REVISED -

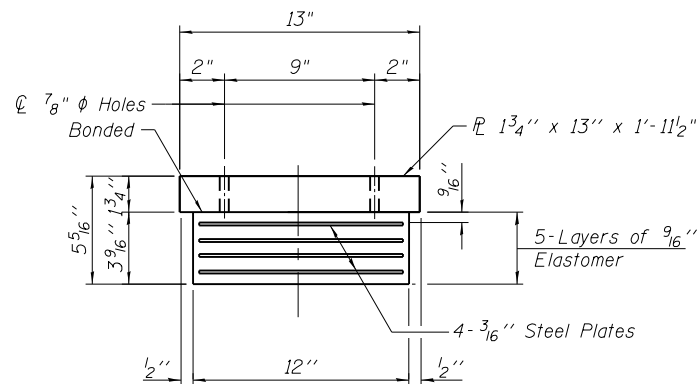
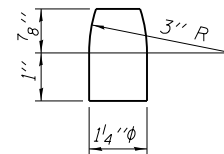
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ILLINOIS FED. AID PROJECT				



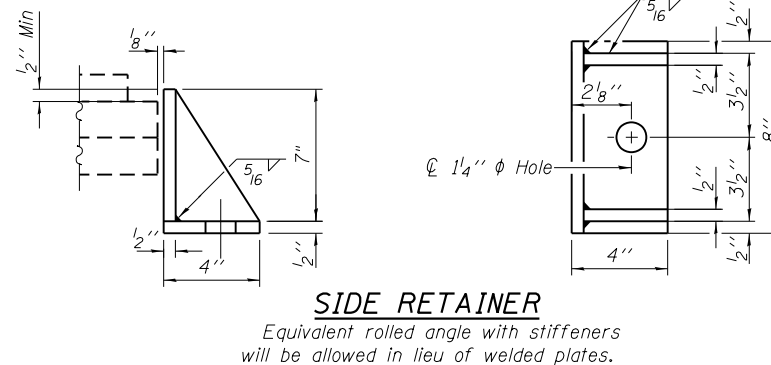
TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS
(26 Required)



PINTLE



Note:
Shim plates shall not be placed under Bearing Assembly.



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	26
Anchor Bolts, 1"	Each	104

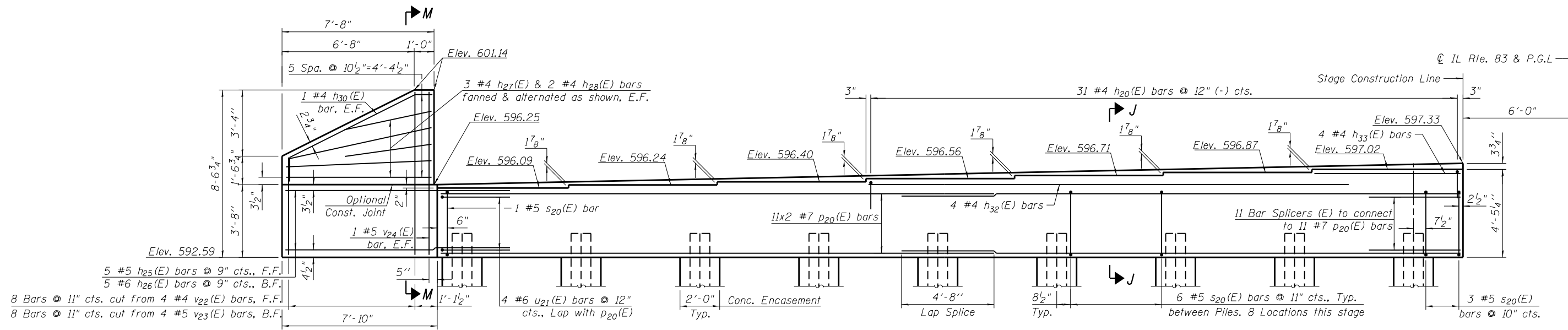
NOTES

- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- H.S. bolts in bearing assemblies shall be galvanized according to AASHTO M 298 Class 50.
- Anchor bolts for side retainers for Type I and fixed bearings may be cast in place or installed in holes drilled before or after the supported members are in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
- The structural steel plates of the Bearing Assembly and the top and bottom plates and pintles for the Fixed Bearings shall conform to the requirements of AASHTO M 270 Grade 50W.
- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

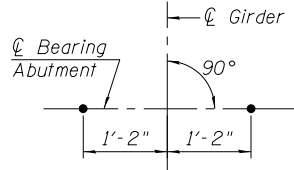
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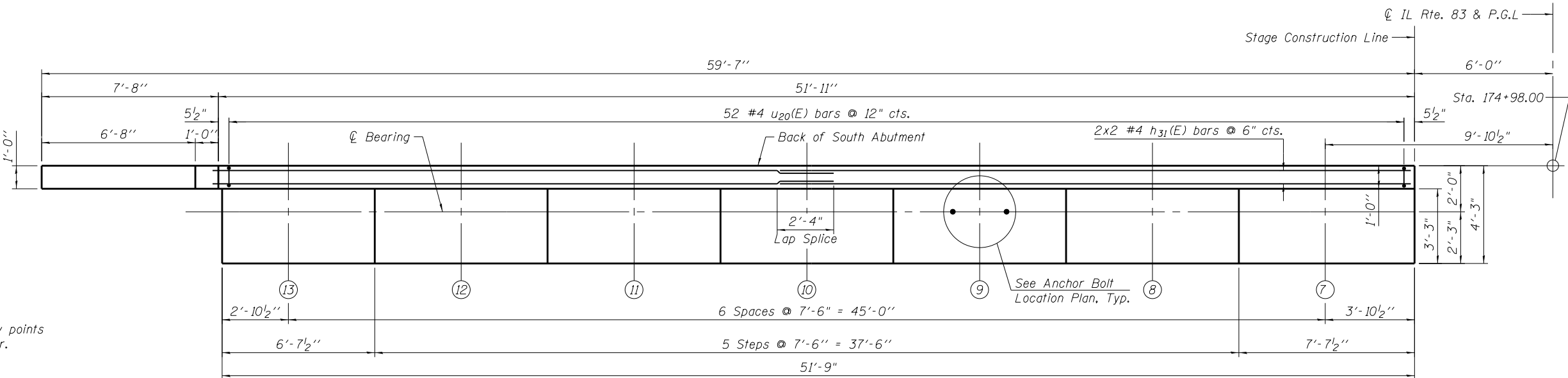
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358	0909.1-B	COOK	138	96
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



ELEVATION LOOKING SOUTH



ANCHOR BOLT LOCATION PLAN



TOP VIEW

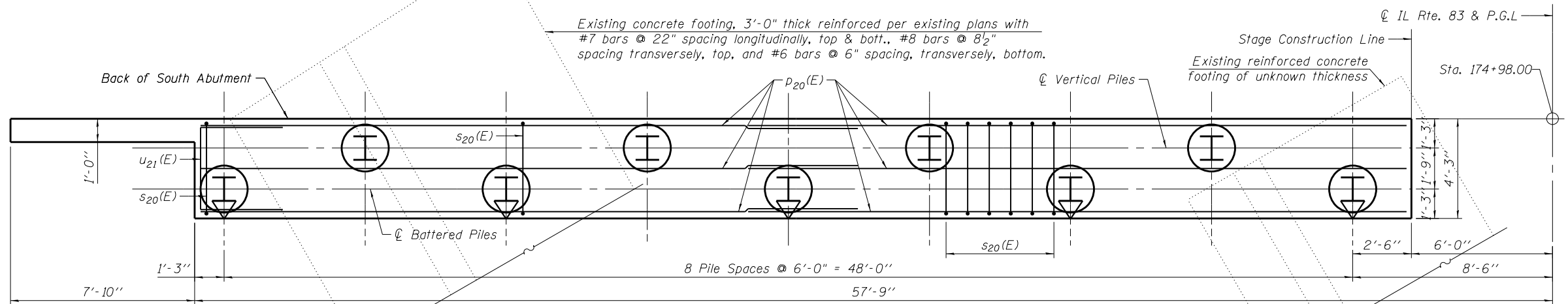
- LEGEND**
- ⏚ Designates Battered Pile. Arrow points to direction of 2:4:12 (H:V) batter.
 - I Designates Vertical Pile
 - ⑦ Designates Girder Number
 - Designates Concrete Encasement
 - Designates Concrete Encasement and Anticipated Precoring

PILE DATA

Pile Type and Size: HP12x53
 Nominal Required Bearing: 419k
 Factored Resistance Available: 230k
 Estimated Pile Length: 59 feet
 Number Production Piles: Eight
 Number Test Piles: One

NOTES

1. Work Sheets S30 thru S35 together.
2. For Details of Piles & Concrete Encasement, see Sheet S39.
3. Pour steps monolithically with abutment seat.
4. Bars indicated thus: 11x2 #7 etc. indicates 11 lines of bars with 2 lengths per line.
5. Precoring through the existing footings and/or slag and for downdrag is required for the installation of proposed piles at the designated locations. This work shall be paid for as Precoring.



PLAN - PILE CAP

H:\projects\2012\20120302\CAD\60K78\CAD_Sheets\Di60K78-s30-s-abut1.dgn
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GR&E
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631; (773) 399-0112

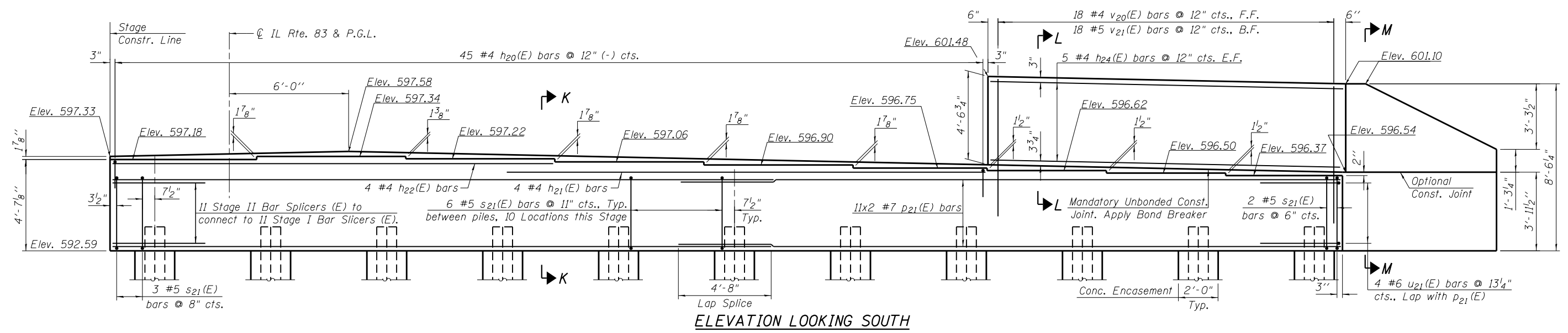
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	CHECKED - J.A.Z.	REVISD -
PLOT SCALE =	DRAWN - E.A.F.	REVISD -
PLOT DATE	DATE - 01/23/2018	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

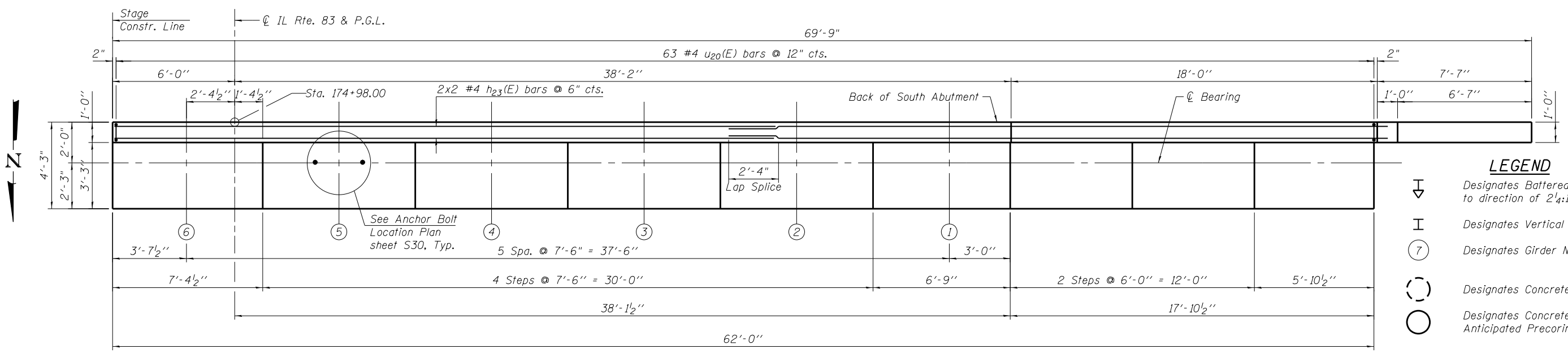
SOUTH ABUTMENT STAGE I
 STRUCTURE NO. 016-1302

SHEET NO. S30 OF 47 SHEETS

F.A.U. RTE. 358	SECTION 0909.1-B	COUNTY COOK	TOTAL SHEETS 138	SHEET NO. 97
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				



ELEVATION LOOKING SOUTH

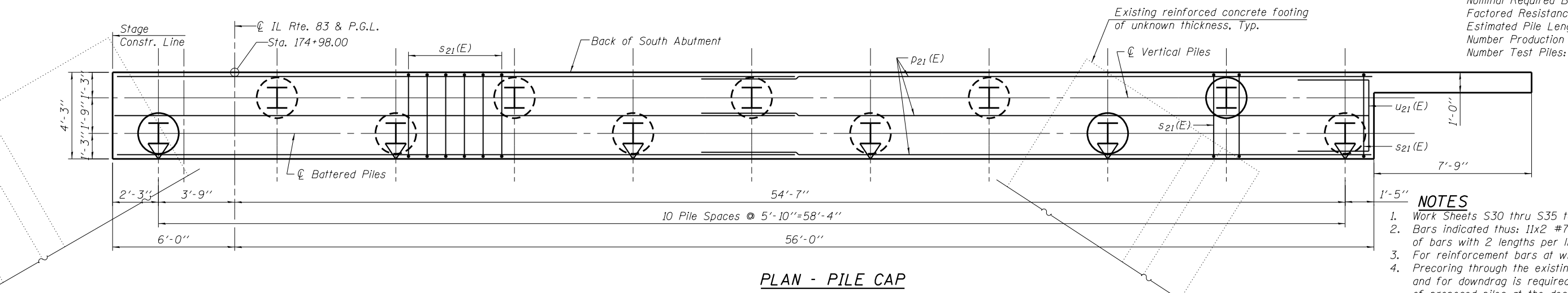


TOP VIEW

- LEGEND**
- ⊥ Designates Battered Pile. Arrow points to direction of 2 1/4:12 (H:V) batter.
 - I Designates Vertical Pile
 - ⑦ Designates Girder Number
 - Designates Concrete Encasement
 - Designates Concrete Encasement and Anticipated Precoring

PILE DATA

Pile Type and Size: HP12x53
 Nominal Required Bearing: 419k
 Factored Resistance Available: 230k
 Estimated Pile Length: 61 feet
 Number Production Piles: Ten
 Number Test Piles: One



PLAN - PILE CAP

- NOTES**
1. Work Sheets S30 thru S35 together.
 2. Bars indicated thus: 11x2 #7 etc. indicates 11 lines of bars with 2 lengths per line.
 3. For reinforcement bars at wingwall, see Sheet S34.
 4. Precoring through the existing footings and/or slag and for downdrag is required for the installation of proposed piles at the designated locations. This work shall be paid for as Precoring.

H:\projects\2012\201203002\CAD\60K78\CAD_Sheets\Di60K78-s31-s-abut2.dgn
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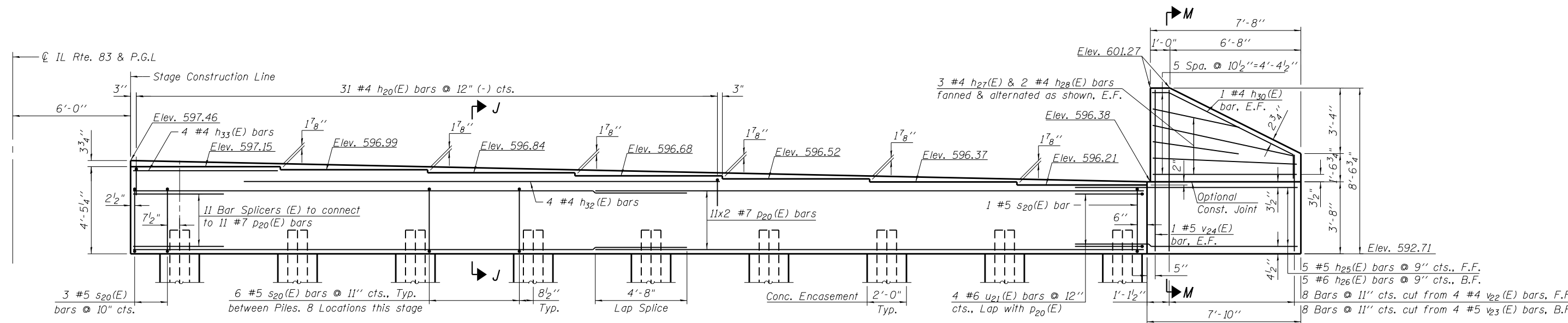
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CHECKED - J.A.Z.	REVISED -	
PLOT SCALE =	DRAWN - E.A.F.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

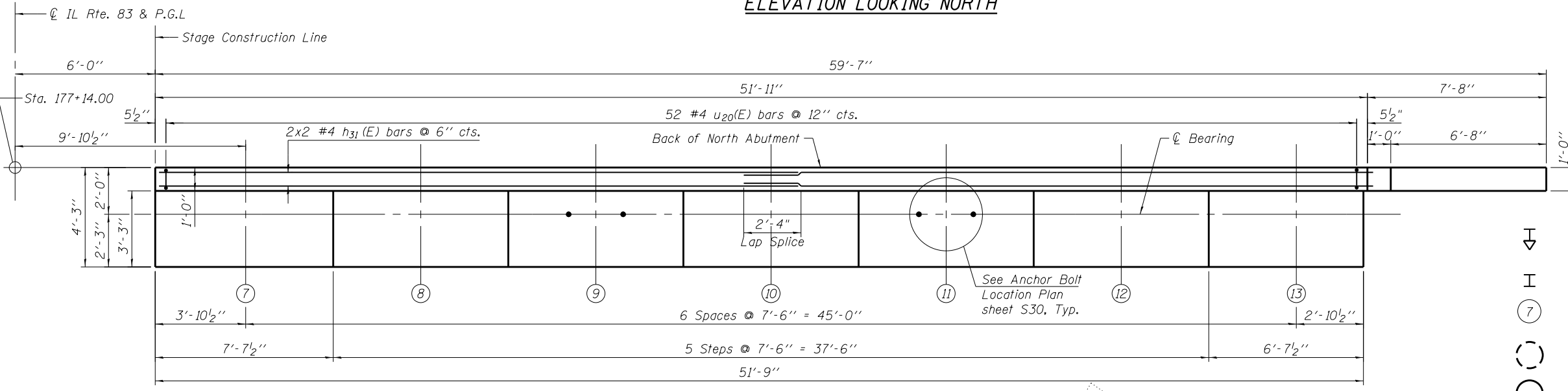
SOUTH ABUTMENT STAGE II
STRUCTURE NO. 016-1302
 SHEET NO. S31 OF 47 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	98

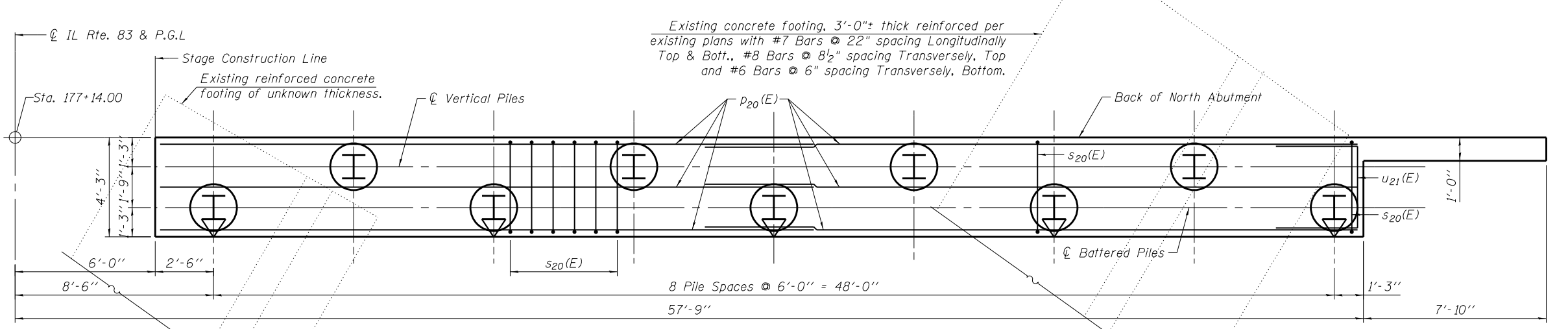
CONTRACT NO. 60K78
 ILLINOIS FED. AID PROJECT



ELEVATION LOOKING NORTH



TOP VIEW



PLAN - PILE CAP

- LEGEND**
- Designates Battered Pile. Arrow points to direction of 2 1/4:12 (H:V) batter.
 - Designates Vertical Pile
 - Designates Girder Number
 - Designates Concrete Encasement
 - Designates Concrete Encasement and Anticipated Precoring

PILE DATA

Pile Type and Size: HP12x53
 Nominal Required Bearing: 419k
 Factored Resistance Available: 230k
 Estimated Pile Length: 52 feet
 Number Production Piles: Eight
 Number Test Piles: One

- NOTES**
- Work Sheets S30 thru S35 together.
 - Bars indicated thus: 11x2 #7 etc. indicates 11 lines of bars with 2 lengths per line.
 - Precoring through the existing footings and/or slag and for downdrag is required for the installation of proposed piles at the designated locations. This work shall be paid for as Precoring.

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USER NAME =	DESIGNED - J.J.G.	REVISED -
	CHECKED - J.A.Z.	REVISED -
PLOT SCALE =	DRAWN - E.A.F.	REVISED -
PLOT DATE =	DATE - 01/23/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT STAGE I
 STRUCTURE NO. 016-1302**

SHEET NO. S32 OF 47 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	0909.1-B	COOK	138	99
CONTRACT NO. 60K78				
ILLINOIS FED. AID PROJECT				

