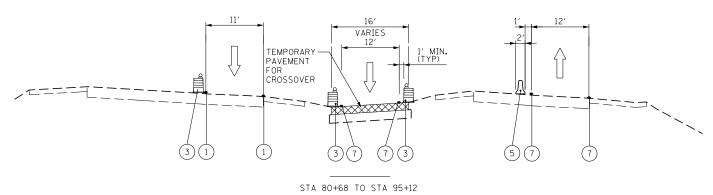
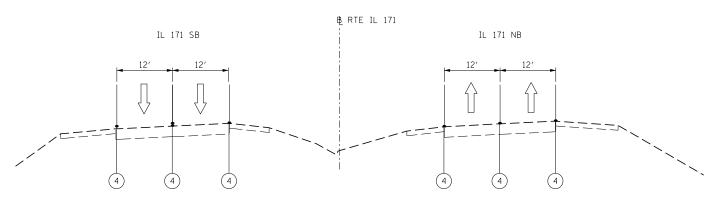
IL 171 SB IL 171 NB





STA 106+05 TO STA 120+00

#### **LEGEND**

- TEMPORARY PAVEMENT MARKING 4 INCH WHITE
- TEMPORARY PAVEMENT MARKING 4 INCH YELLOW
- DRUM W/STEADY BURN MONODIRECTIONAL LIGHT
- EXISTING PAVEMENT MARKING
- (5) TEMPORARY CONCRETE BARRIER
- TEMPORARY PAVEMENT MARKING 6 INCH WHITE W/TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER 6
- TEMPORARY PAVEMENT MARKING PLACED IN PREVIOUS STAGE
- WET REFLECTIVE TEMPORARY TAPE 4 INCH (WHITE)
- WET REFLECTIVE TEMPORARY TAPE 4 INCH (YELLOW)





TEMPORARY PAVEMENT PLACED PREVIOUS STAGE



TEMPORARY PAVEMENT PLACED THIS STAGE

# NOTE:

SEE TEMPORARY PAVEMENT (CROSSOVER)
DETAIL SHEETS FOR SPOT ELEVATIONS.

FILE NAME =	DESIGNED	-	AAA	REVISED -	
\D160J16-sht-MOT-extyp-stg1C-02.dgn	DRAWN	-	ТМВ	REVISED -	4
USER NAME = tblank	CHECKED	-	JMM	REVISED -	,
PLOT DATE = 8/7/2014	DATE	-	6/23/2014	REVISED -	

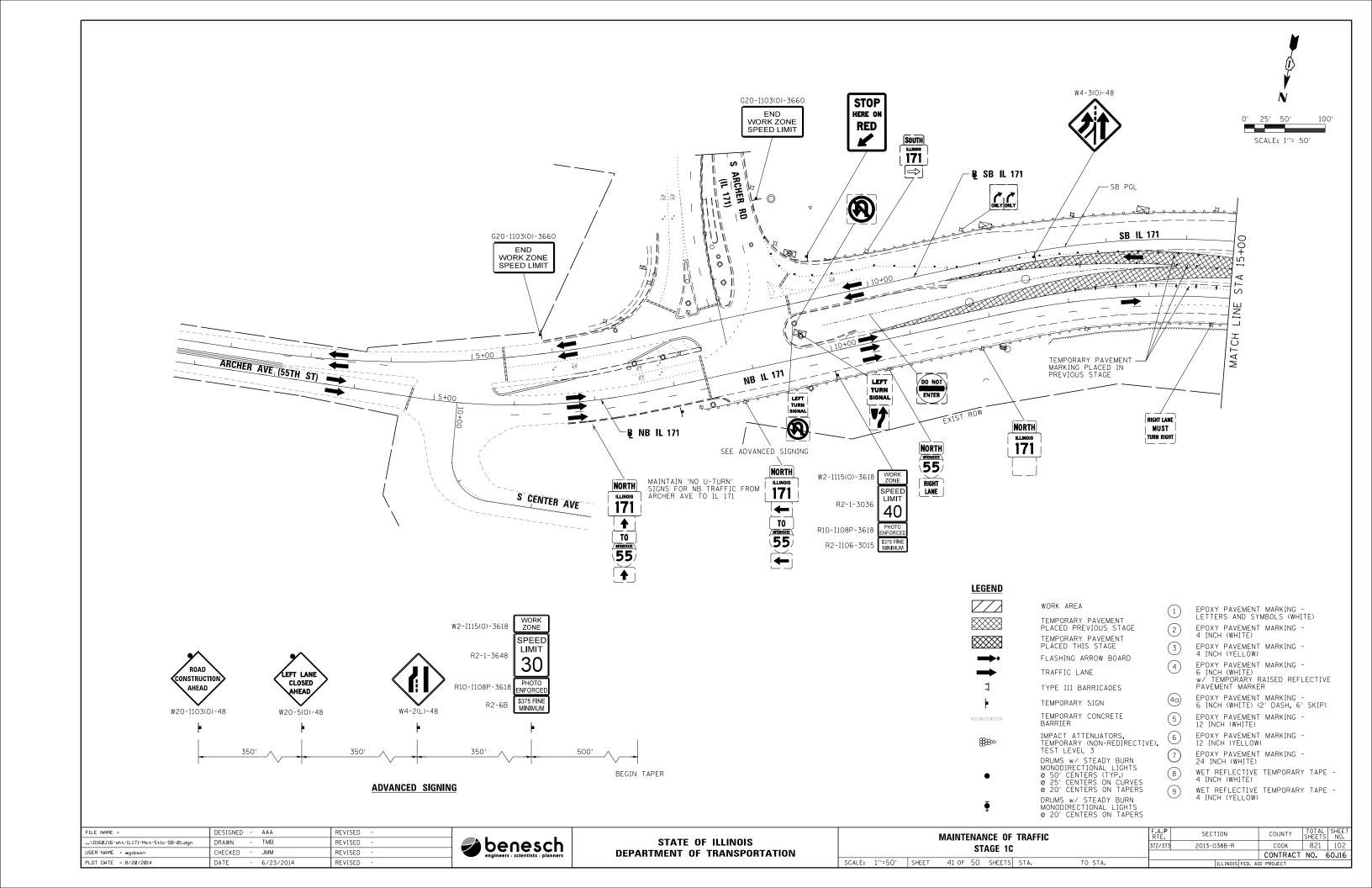


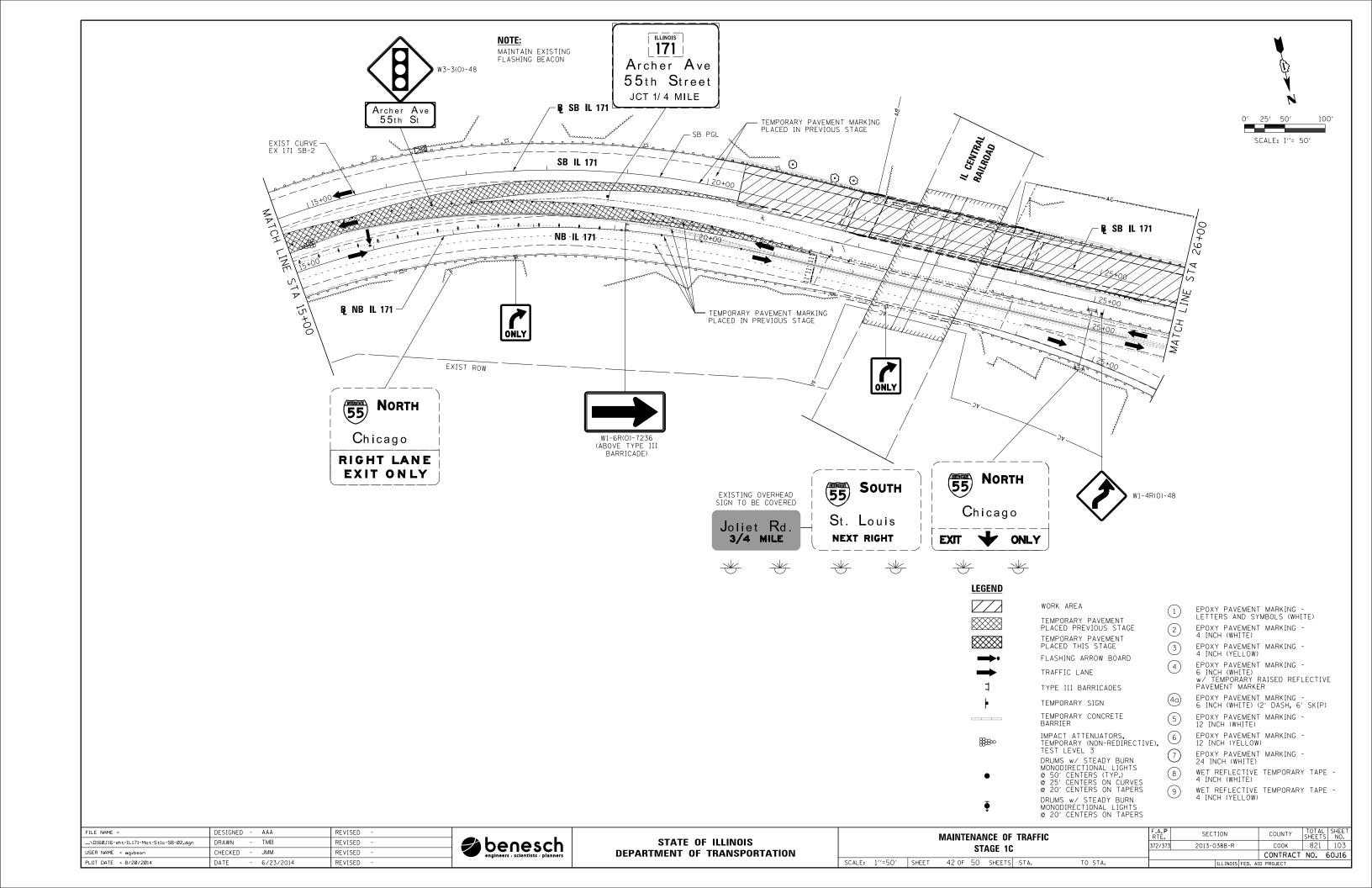
STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

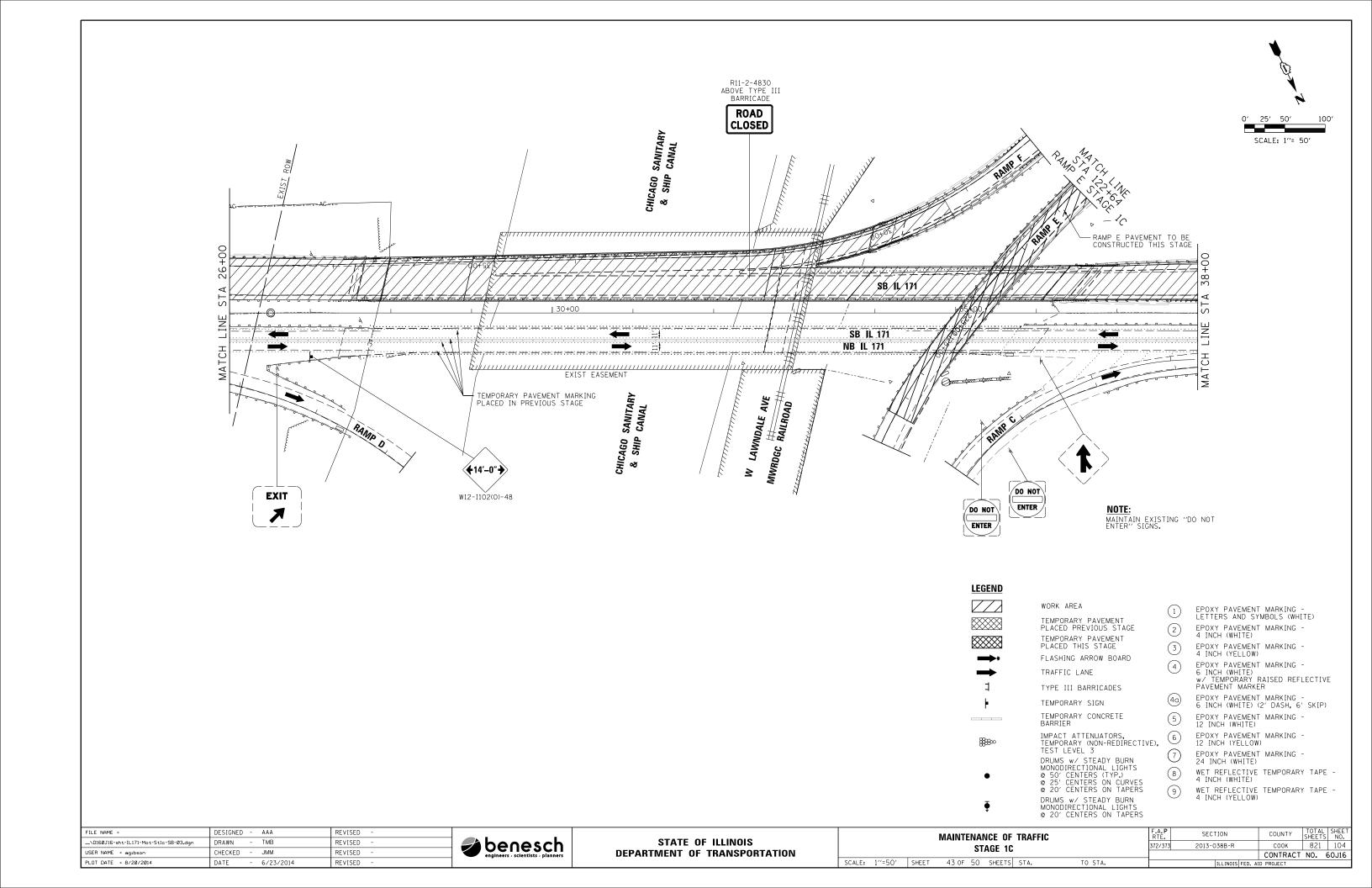
	MAINTE		NCE OF AGE 1C	TRAFFIC	
SHEET	40 of	50	SHEETS	STA.	

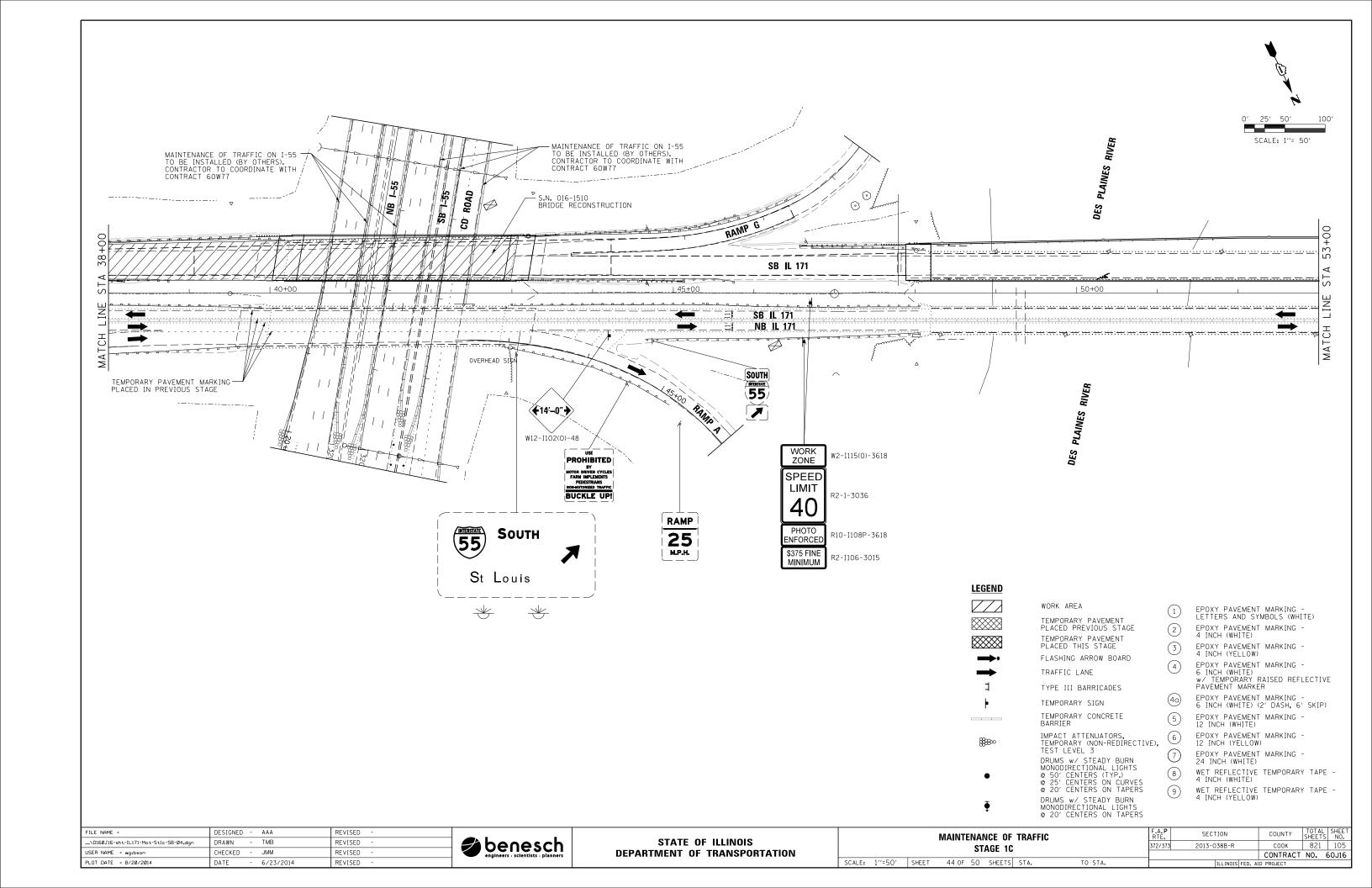
TO STA.

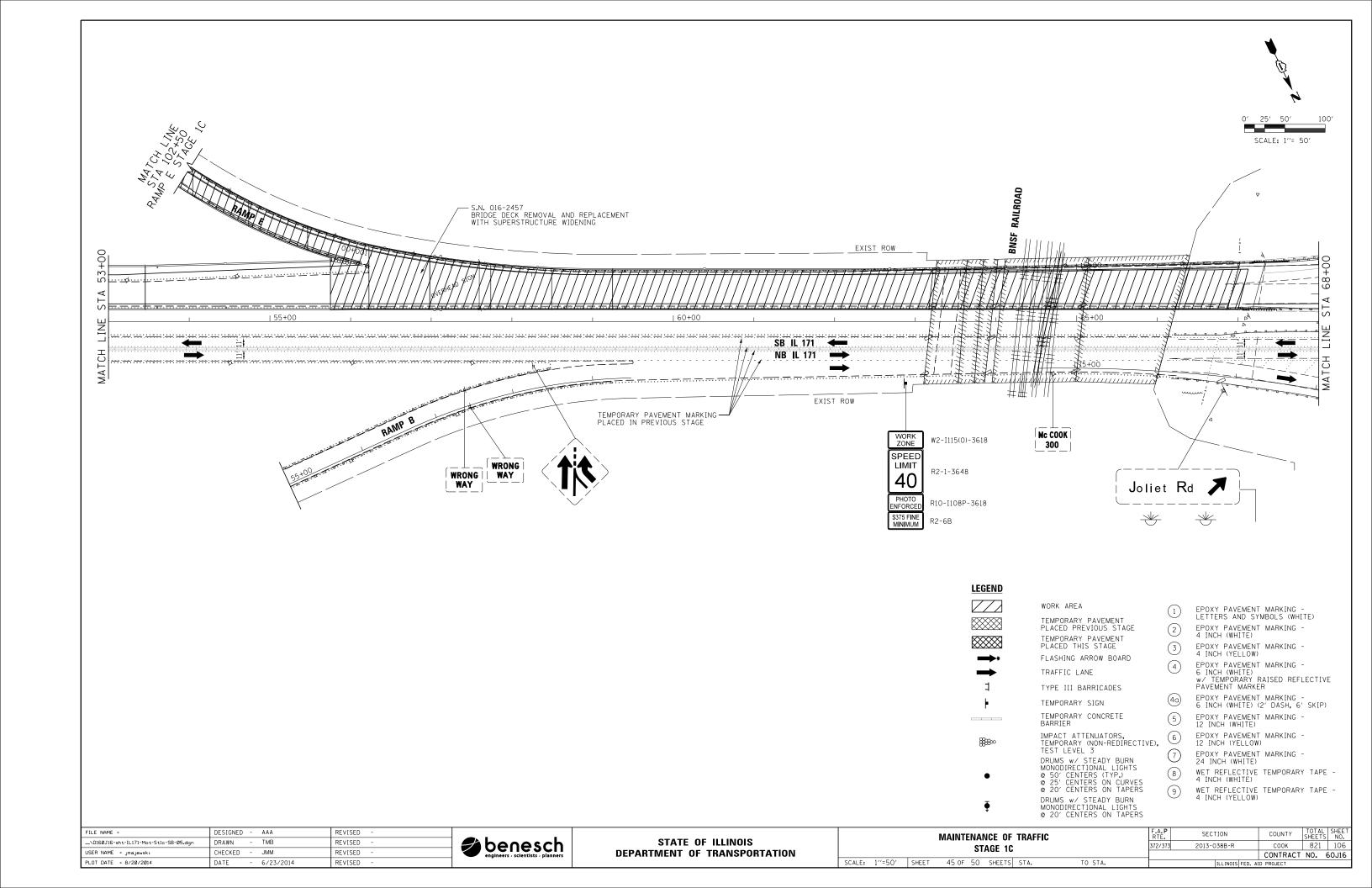
			NOTE FED.	ID DDO IECT		
RTE. SECTION COUNTY SHEETS NO				CONTRACT	NO. 6	50J1
	372/373	2013-038B	-R	COOK	821	10
	F.A.P RTE.	SECTION	I	COUNTY	TOTAL SHEETS	SHE

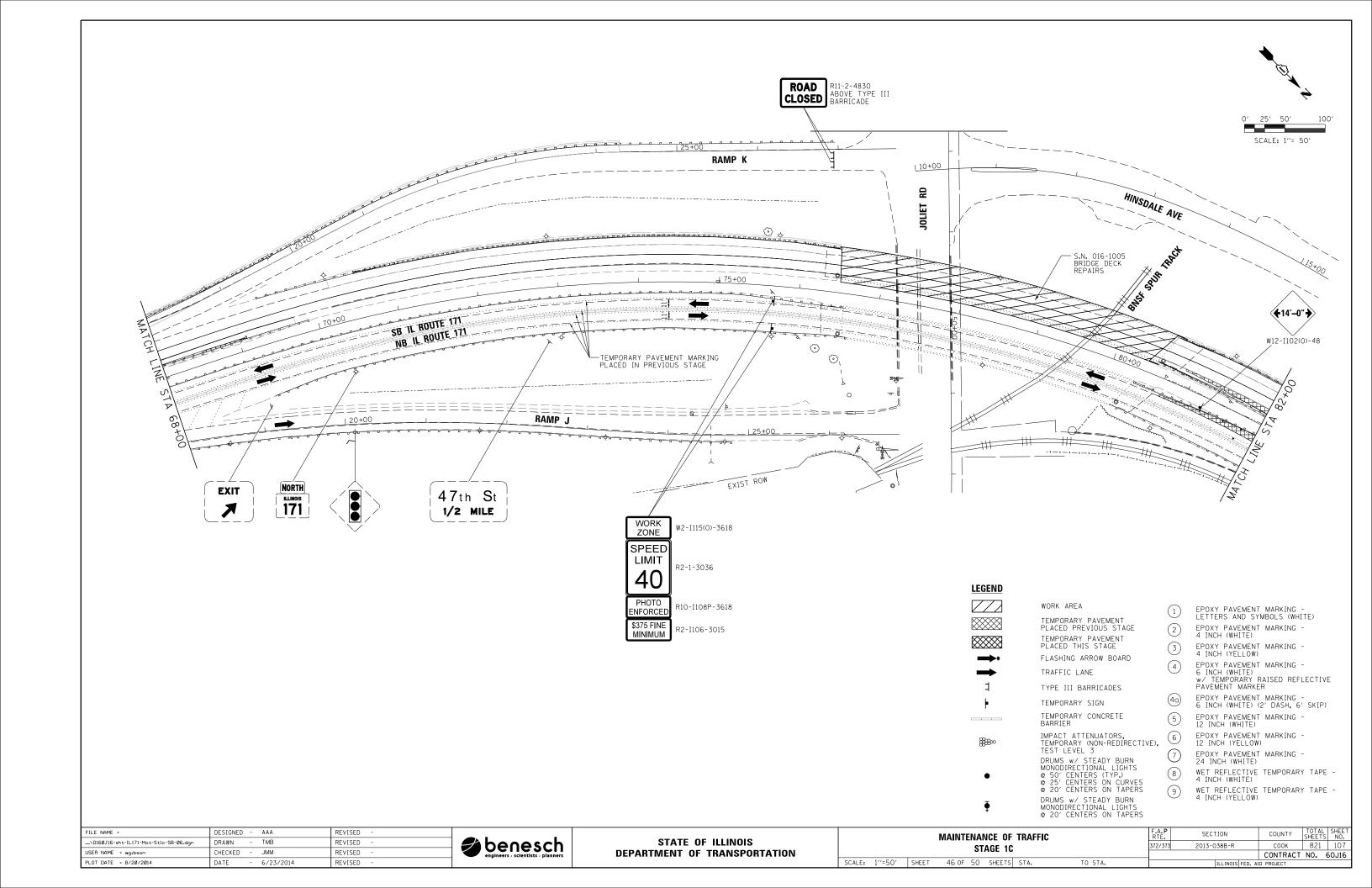


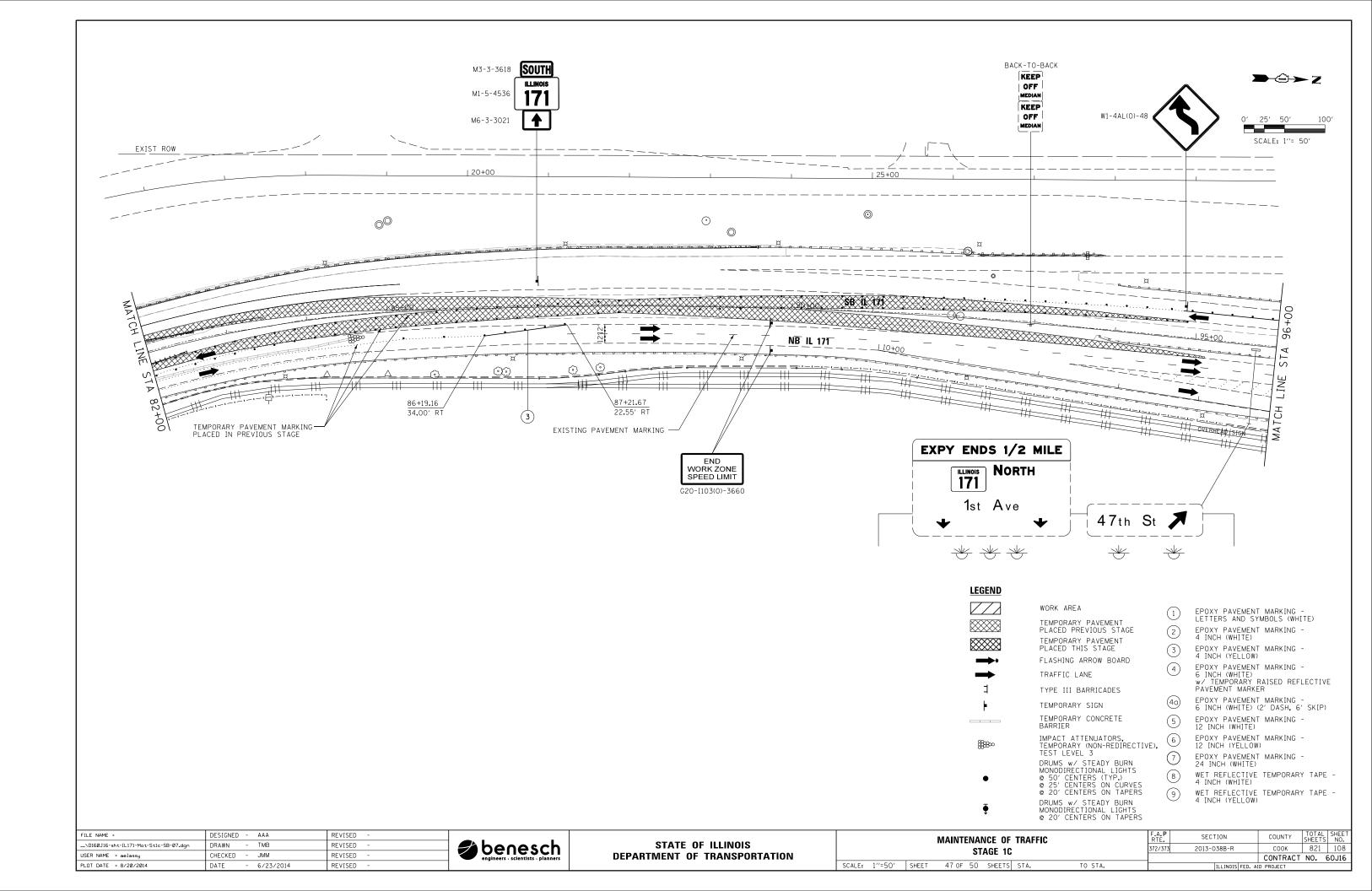


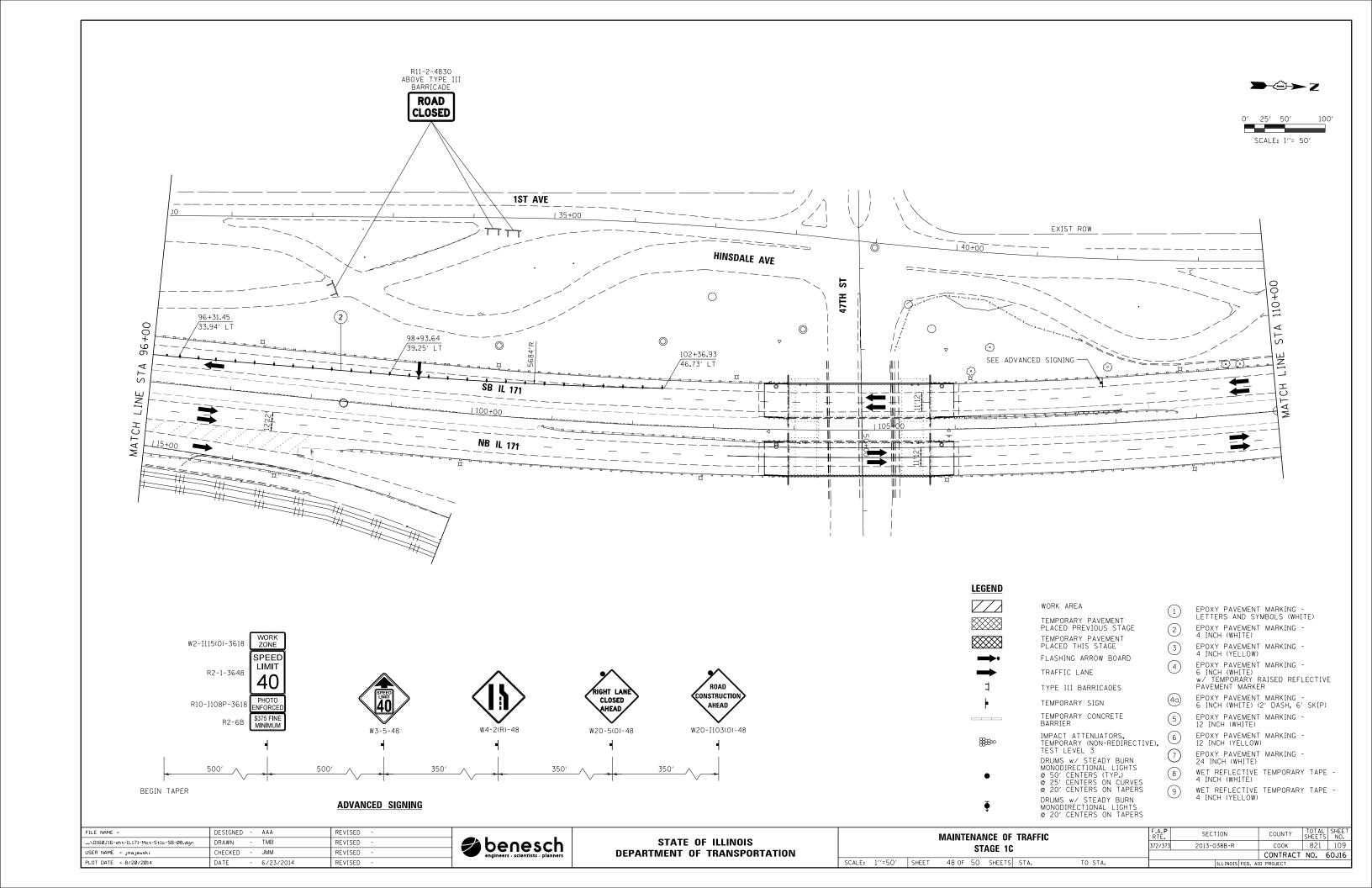


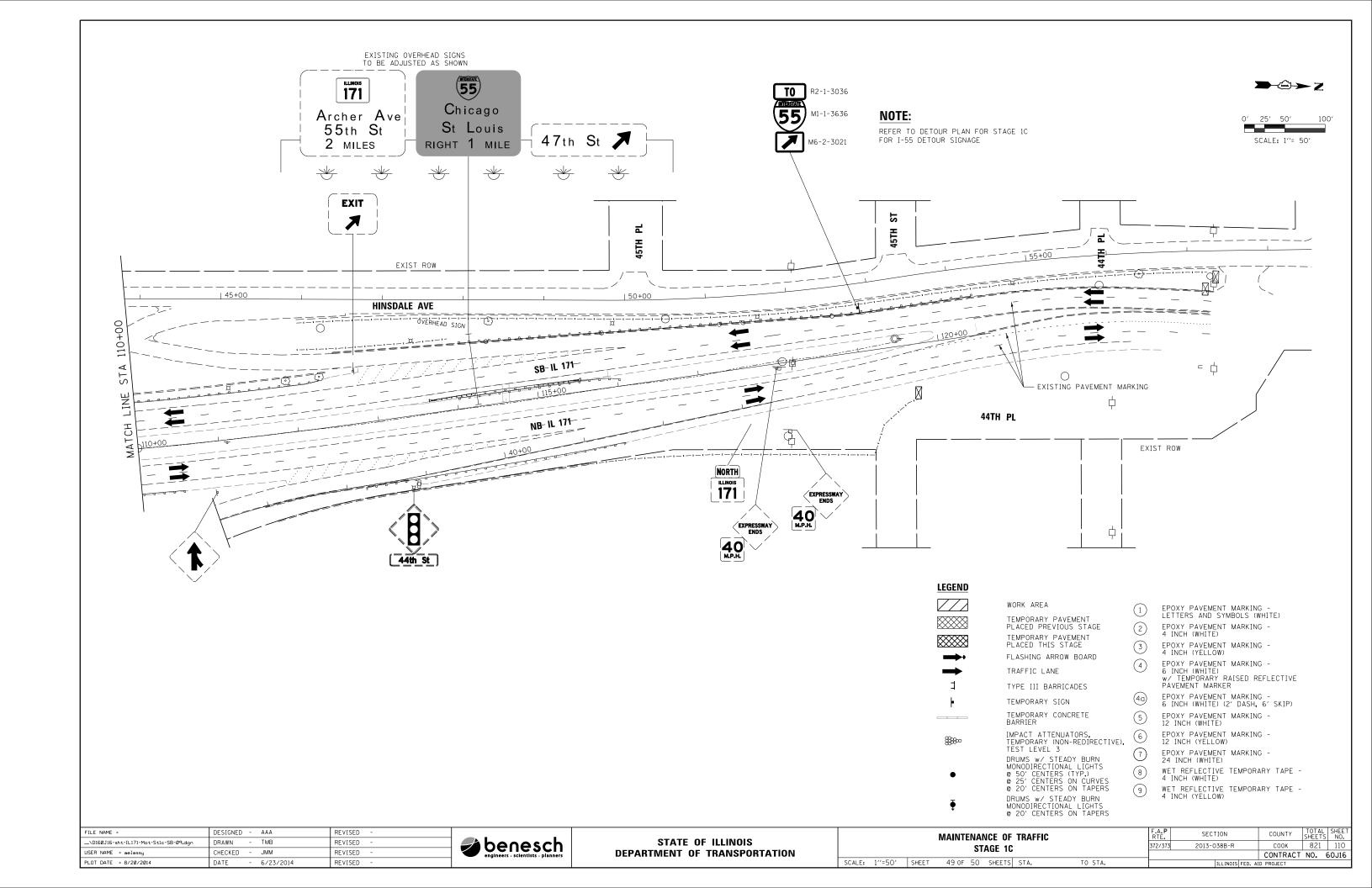


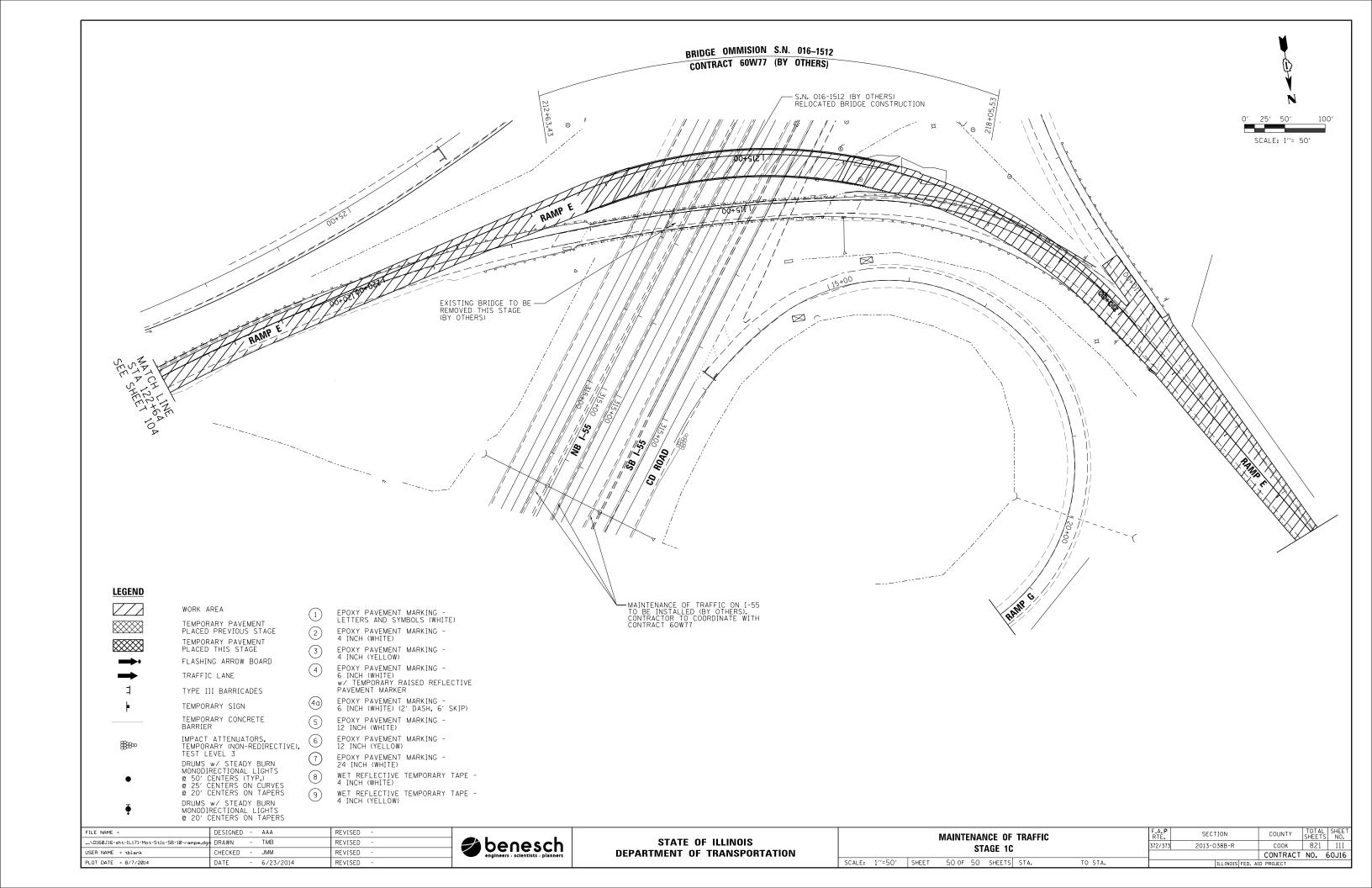












#### **GENERAL NOTES**

- 1. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- 2. ALL DAMAGE TO CITY, COUNTY OR STATE OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRICAL CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
- 3. EXCEPT WHERE MODIFIED BY THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS OR THE DETAILS IN THE PLANS, ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012: THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2014: THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION: THE "DETAILS" IN THE PLANS; AND THE "SPECIAL PROVISIONS" IN THE CONTRACT DOCUMENTS.
- 4. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT STANDARDS.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. COPIES OF AVAILABLE GEOTECHNICAL INFORMATION ARE AVAILABLE FROM IDOT FOR REVIEW AND INFORMATION.
- 6. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MUNICIPALITIES AND COOK COUNTY.
- 8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY, COUNTY OR STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 9. 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.
- 10. THE CONTRACTOR SHALL SUPPLY THE IN-STREAM WORK PLAN AS NEEDED FROM THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES/OFFICE OF WATER RESOURCES (IDNR/OWR) FOR PERMIT ACQUISITION FOR WORK IN THE DES PLAINES RIVER.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. STATIONS ARE SHOWN FOR REFERENCE ONLY.
- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 14. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 15. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AT THE DIRECTION OF THE ENGINEER. THIS WORK IS INCIDENTAL TO THE CONTRACT.
- 16. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AT THE DIRECTION OF THE PERMITTING AGENCIES. THIS WORK IS INCIDENTAL TO THE CONTRACT.
- 17. CLEARING SHALL BE DONE TO THE CONSTRUCTION LIMITS OF THE PROJECT. SEE SECTION 201.01(A) OF THE STANDARD SPECIFICATIONS. CLEARING WILL NOT BE MEASURED FOR PAYMENT.

#### **EROSION CONTROL GENERAL NOTES**

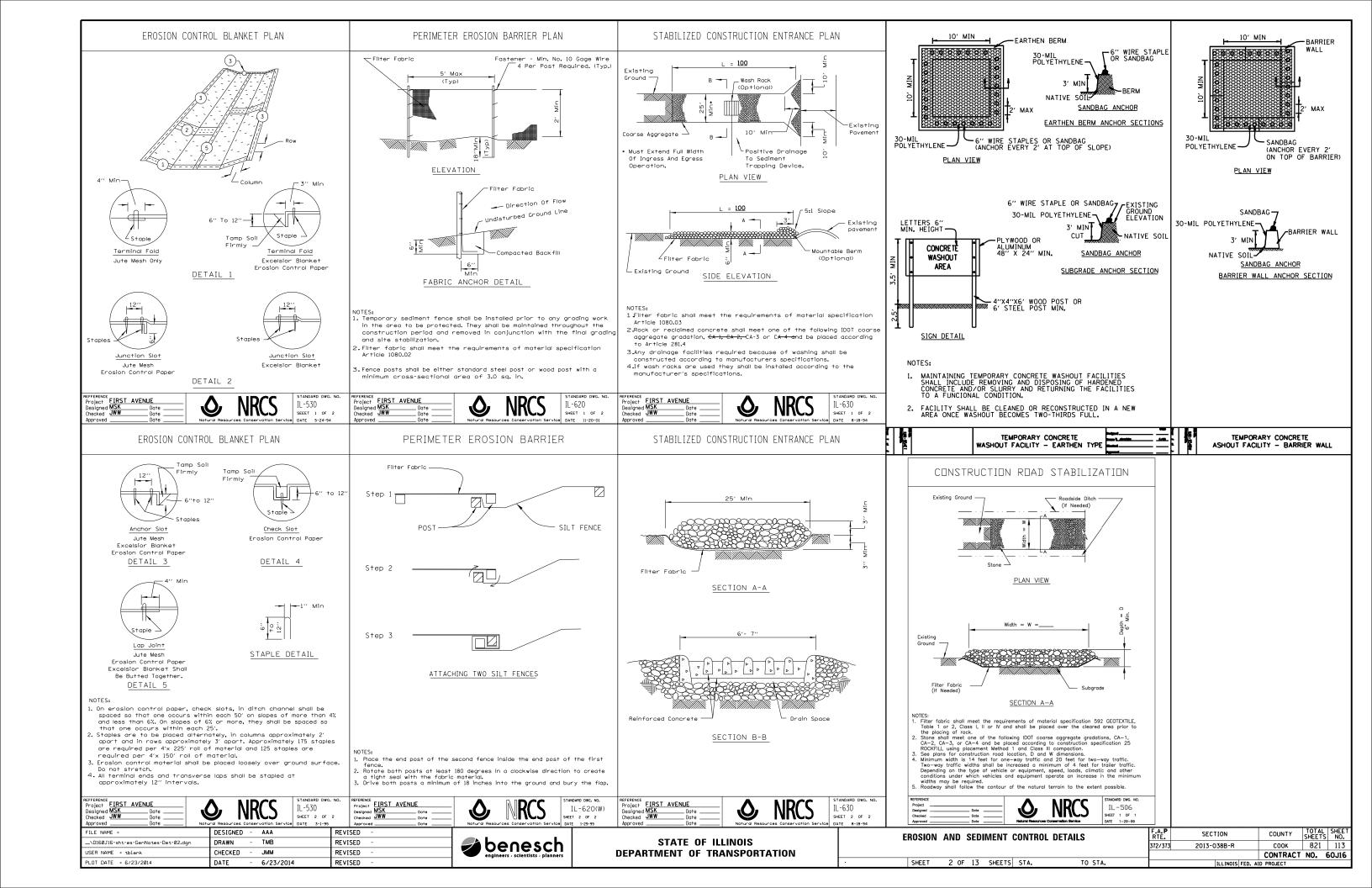
- 1. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON 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.
- 2. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION, PAYMENT FOR THIS WORK WILL BE INCLUDED WITHIN THE ITEM CONSTRUCTION LAYOUT, LSD. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
- 4. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINOIS URBAN MANUAL LATEST UPDATE.
- THE WILL-SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WSCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- 7. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS), A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR ACCEPTANCE.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE REGULATORY AUTHORITIES. THESE ADDITIONAL ITEMS ARE INCIDENTAL TO THE CONTRACT.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURE IS PROHIBITED.
- 10. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM
  ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS
  IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL
  POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) PERMIT REQUIREMENTS SET FORTH
  BY THE ILLINOIS EPA.
- 11. PERIMETER EROSION CONTROL BARRIER SHALL BE ERECTED ADJACENT TO TEMPORARY CONSTRUCTION FENCE IN SELECTED LOCATIONS. THE RESIDENT ENGINEER SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION CONTROL BARRIER.
- 12. COMPLETED SLOPES (SECTION OF ROAD EMBANKMENT) SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS AS REQUIRED BY THE PERMITS DESIRABLE AND PRACTICAL. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- 13. CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE.
- 14. REFER TO STORM WATER POLLUTION PREVENTION PLAN FOR INSPECTION AND MAINTENANCE SCHEDULES, AND SEQUENCE OF ACTIVITIES.
- 15. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN OFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- 16. WHEN STREAM DISTURBANCE IS NECESSARY, THE STREAM INCLUDING THE BED AND BANKS, SHALL BE STABILIZED PRIOR TO ACCEPTING ANY FLOWS, PER USACE GUIDELINES.

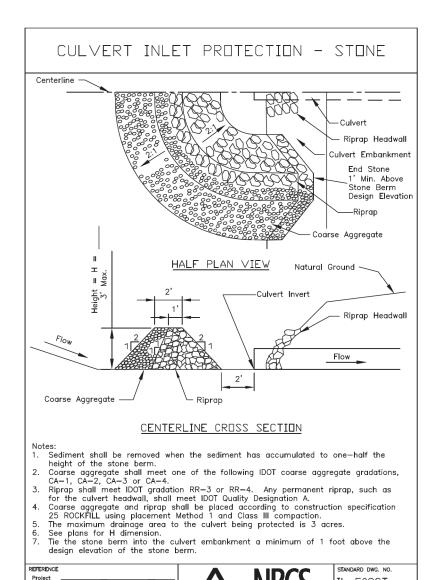
FILE NAME =	DESIGNED - AAA	REVISED -
\D160J16-sht-es-GenNotes-Det-01.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -





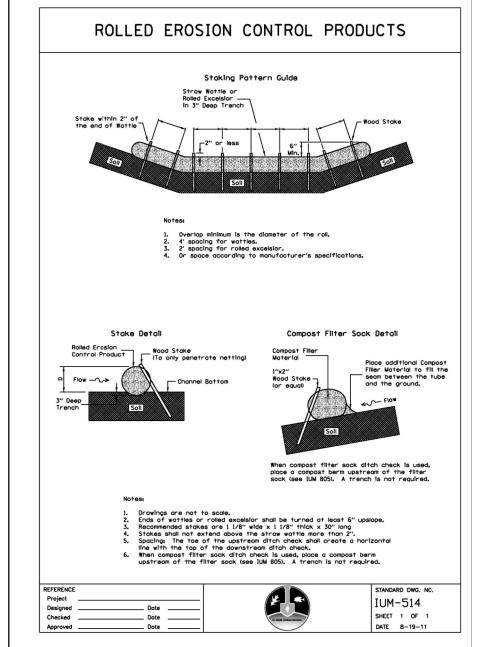
EROSION	CONTRO	L NOTES		
1 OF 13	SHEETS	STA.	TO STA.	





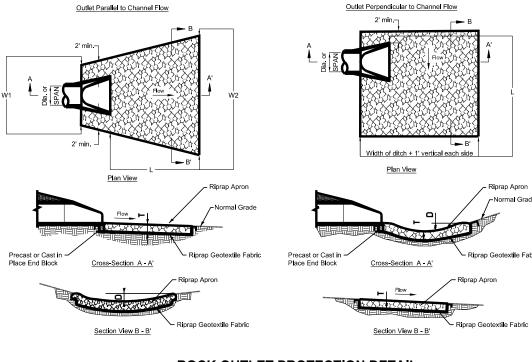
NOTE:
CULVERT INLET PROTECTION-STONE SHALL BE PAID FOR AS AGGREGATE DITCH CHECK

IL-508ST SHEET 1 OF 1 DATE 1-29-99



#### NOTE:

ROLLED EROSION CONTROL PRODUCTS SHALL BE PAID FOR AS PERIMETER EROSION BARRIER (ROLLED EXCELSIOR)



# **ROCK OUTLET PROTECTION DETAIL**

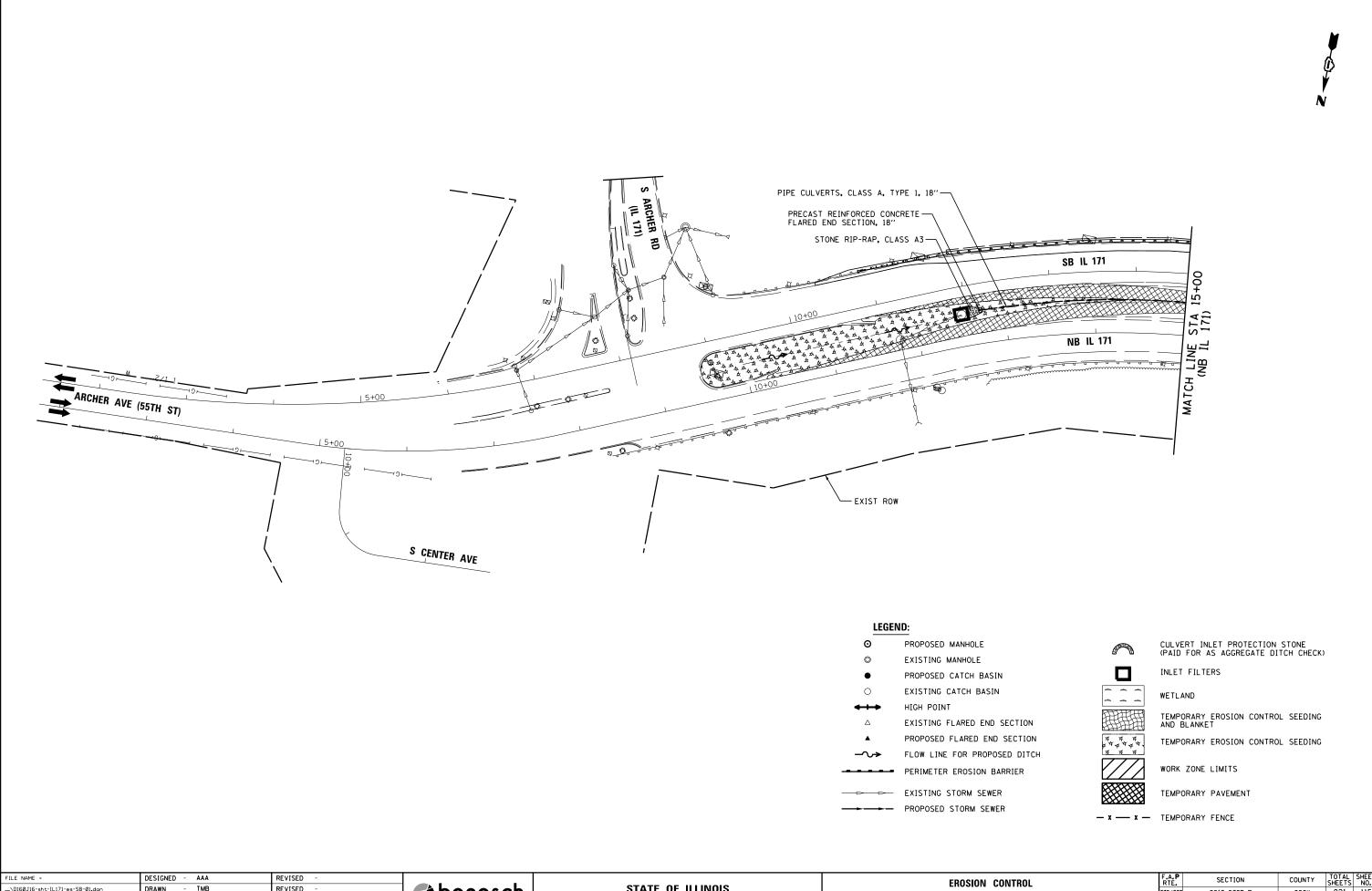
DIA. OF	IDOT	RIPRAP		APRON		DEPTH
ROUND	RIPRAP	BED	APRON	WIDTH	APRON WIDTH	BELOW
INLET PIPE	GRADATION	THICKNESS	LEGNTH	UPSTREAM	DOWNSTREAM	NORMAL
(in)	(RR)	(in)	(ft)	(ft)	(ft)	GRADE
		Т	L	W1	W2	D
12	RR-3	15.0	12.0	5.0	11.0	6.0
15	RR-3	15.0	14.0	5.0	12.0	6.0
18	RR-3	15.0	16.0	5.5	13.5	7.0
24	RR-4	15.0	20.0	6.0	16.0	10.0
30	RR-4	20.0	22.0	6.0	17.0	11.0
36	RR-4	20.0	24.0	7.0	19.0	11.0

FILE NAME =	DESIGNED	-	AAA	REVISED -
\D160J16-sht-es-GenNotes-Det-03.dgn	DRAWN	-	TMB	REVISED -
USER NAME = tblank	CHECKED	-	JMM	REVISED -
PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -

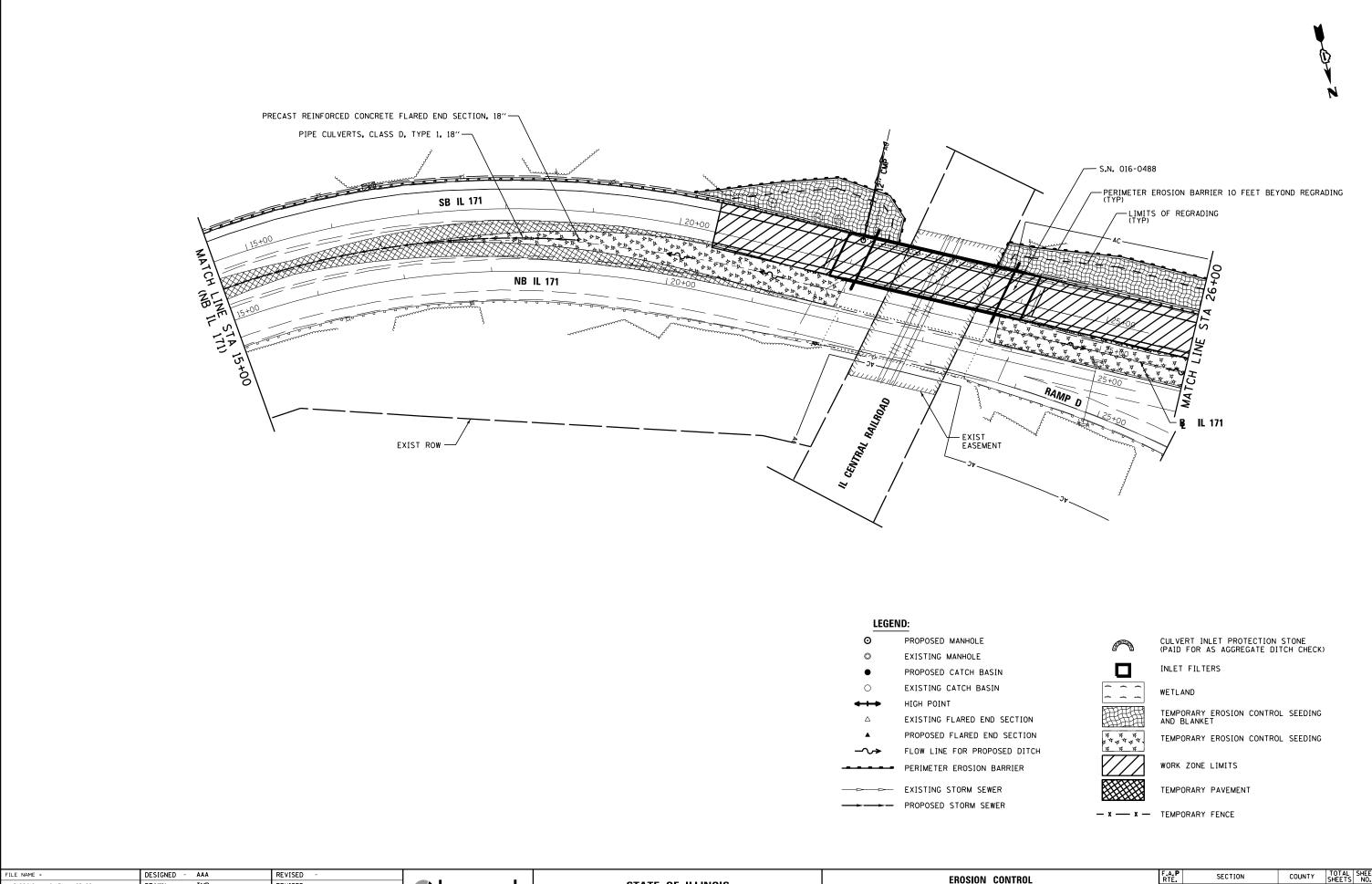


STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

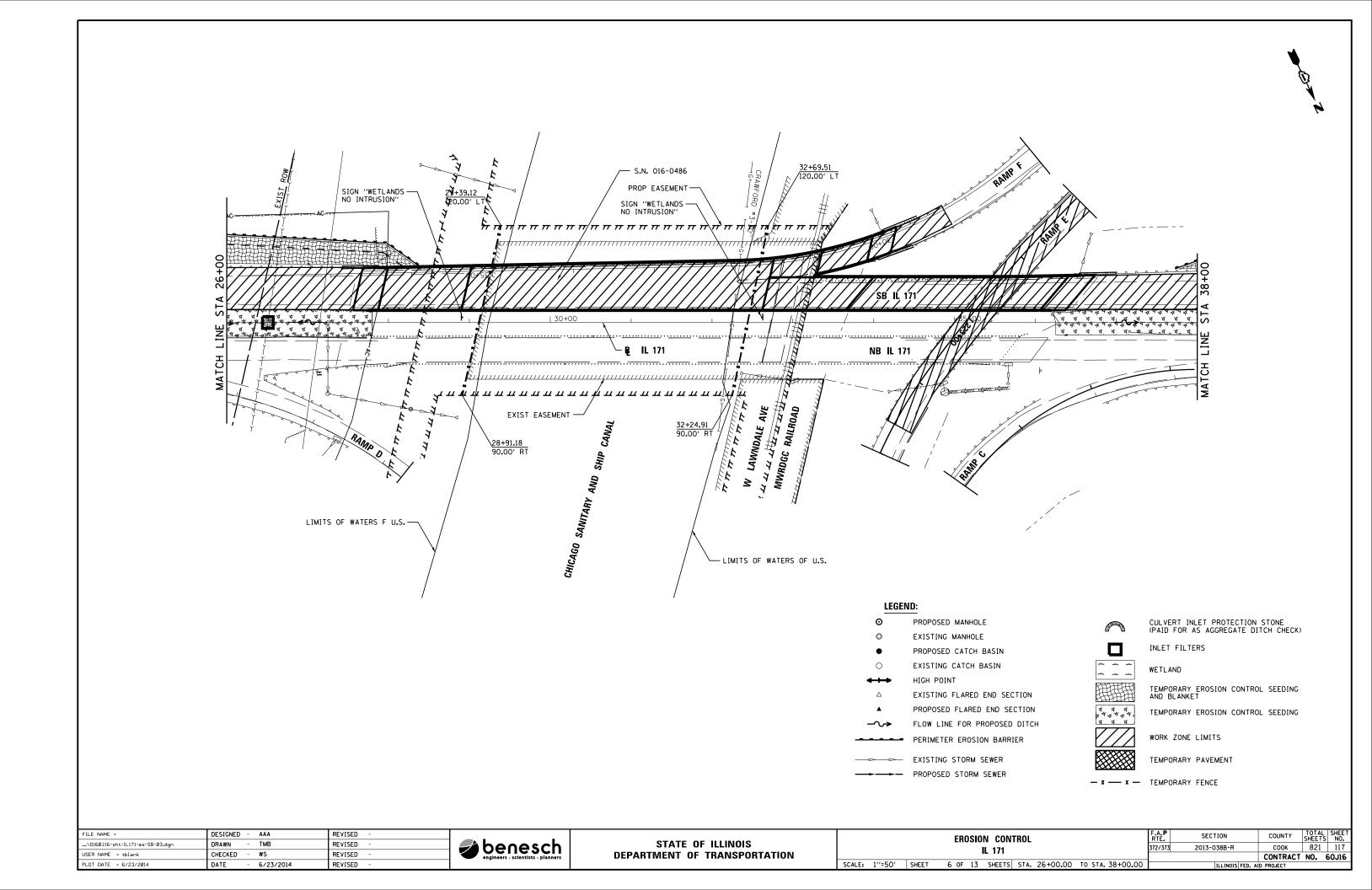
EROSION AND SEDIMENT CONTROL DETAILS		F.A. <b>P</b> RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		372/373	2013-038B-R	COOK	821	114
				CONTRACT	NO. (	60J16
SHEET 3 OF 13 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

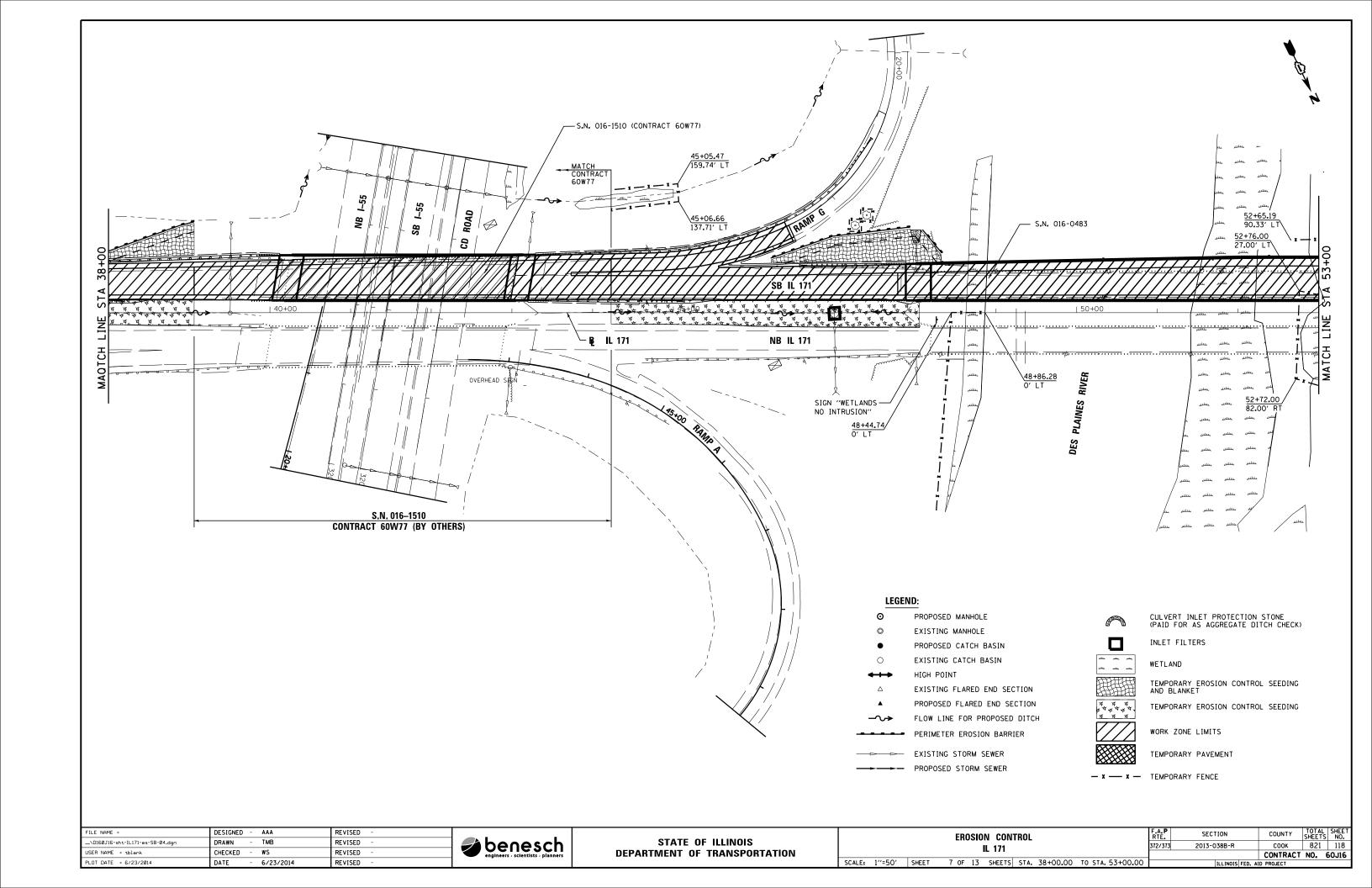


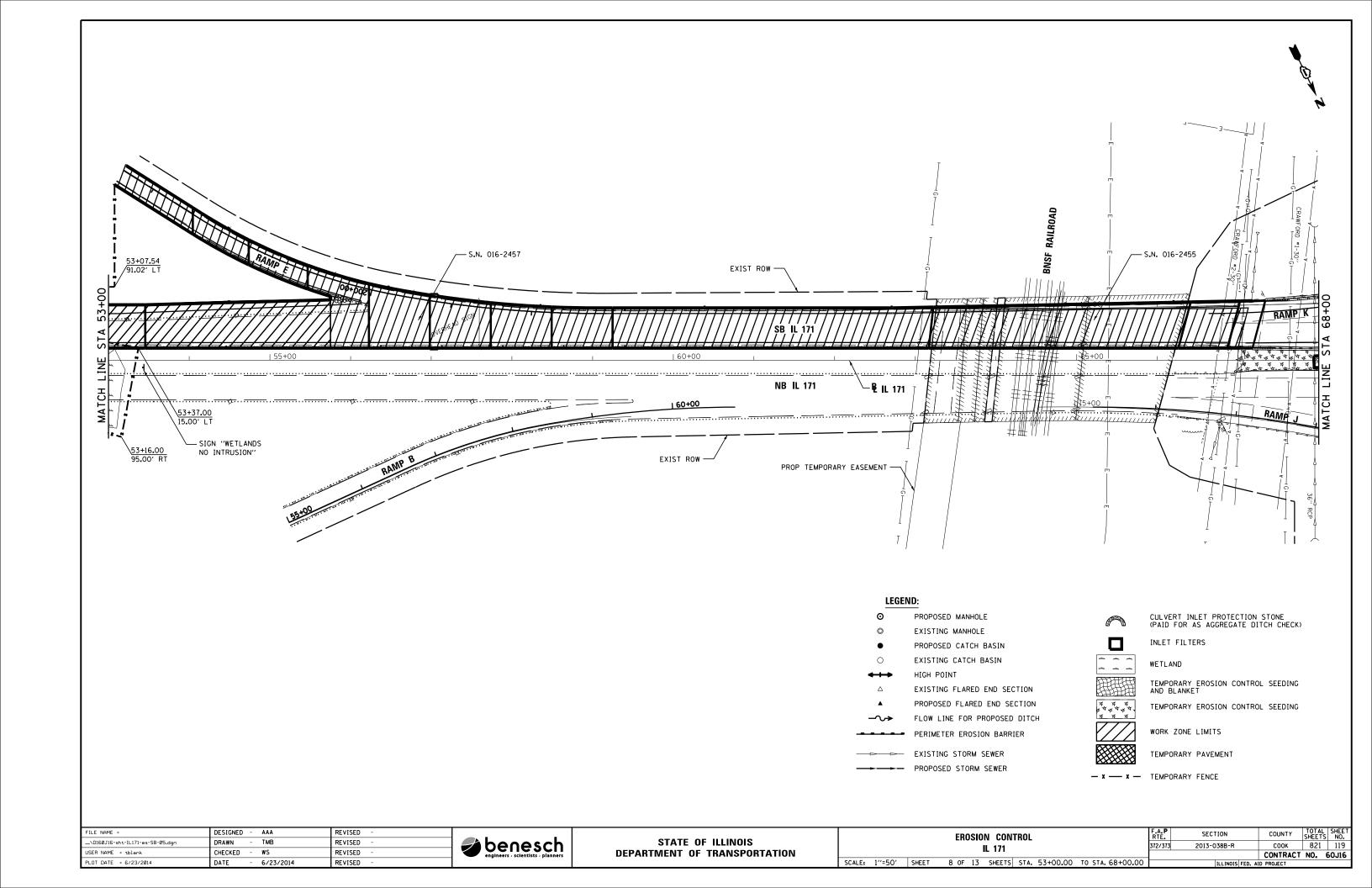


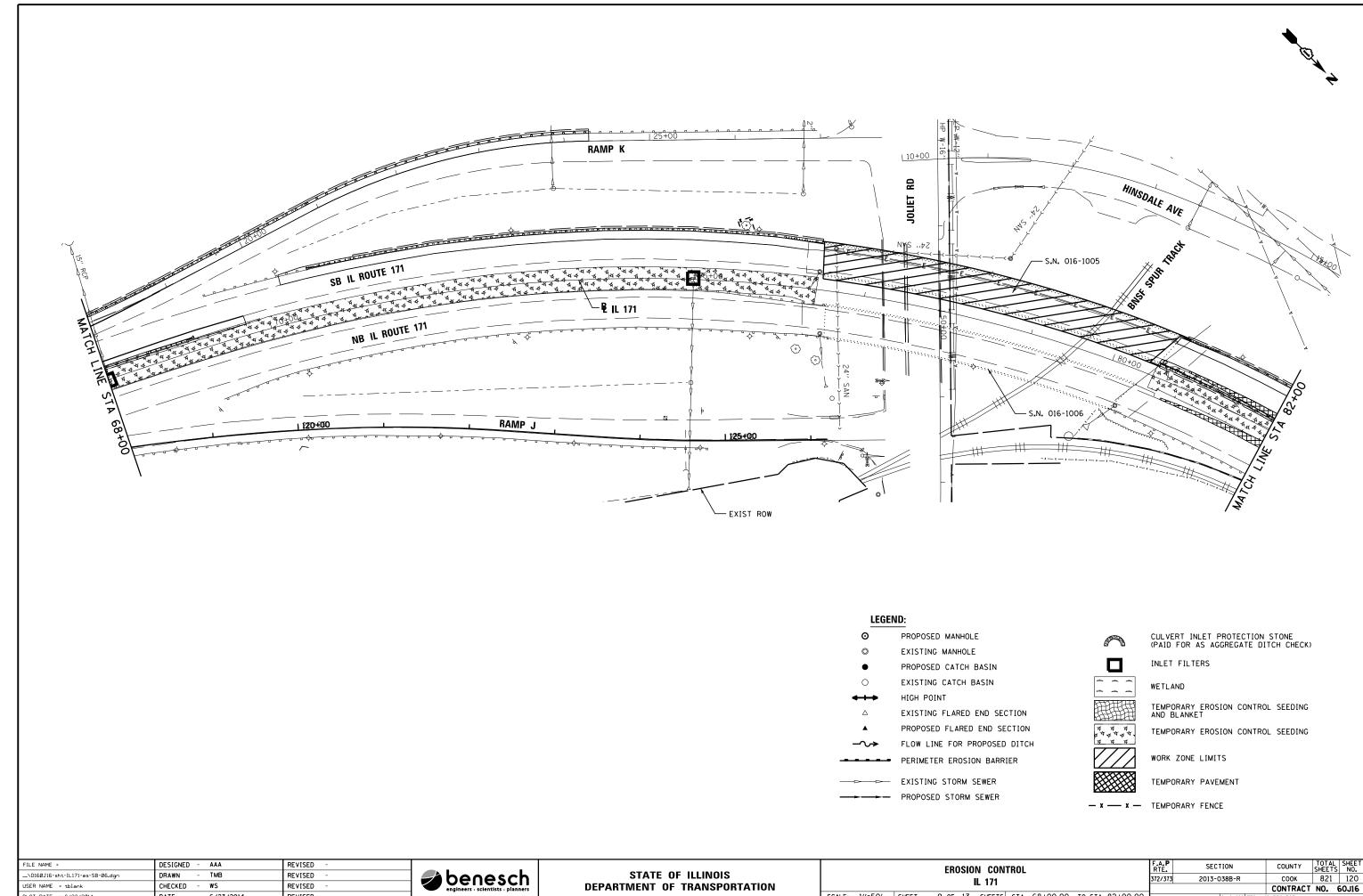


FILE NAME =	DESIGNED - AAA	REVISED -				EROSION CONTROL	RTF.	SECTION	COUNTY	SHEETS NO.
\D160J16-sht-IL171-es-SB-02.dgn	DRAWN - TMB	REVISED -	🛘 🚄 benesch 🖯	STATE OF ILLINOIS			372/373	2013-038B-R	соок	821 116
USER NAME = tblank	CHECKED - WS	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION		IL 171	0.2.0.0	2010 0002 11	CONTRACT	T NO. 60J16
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -	-		SCALE: 1"=50" SHEET	5 OF 13 SHEETS STA. 15+00.00 TO STA. 26+00.00		ILLINOIS FED. A		

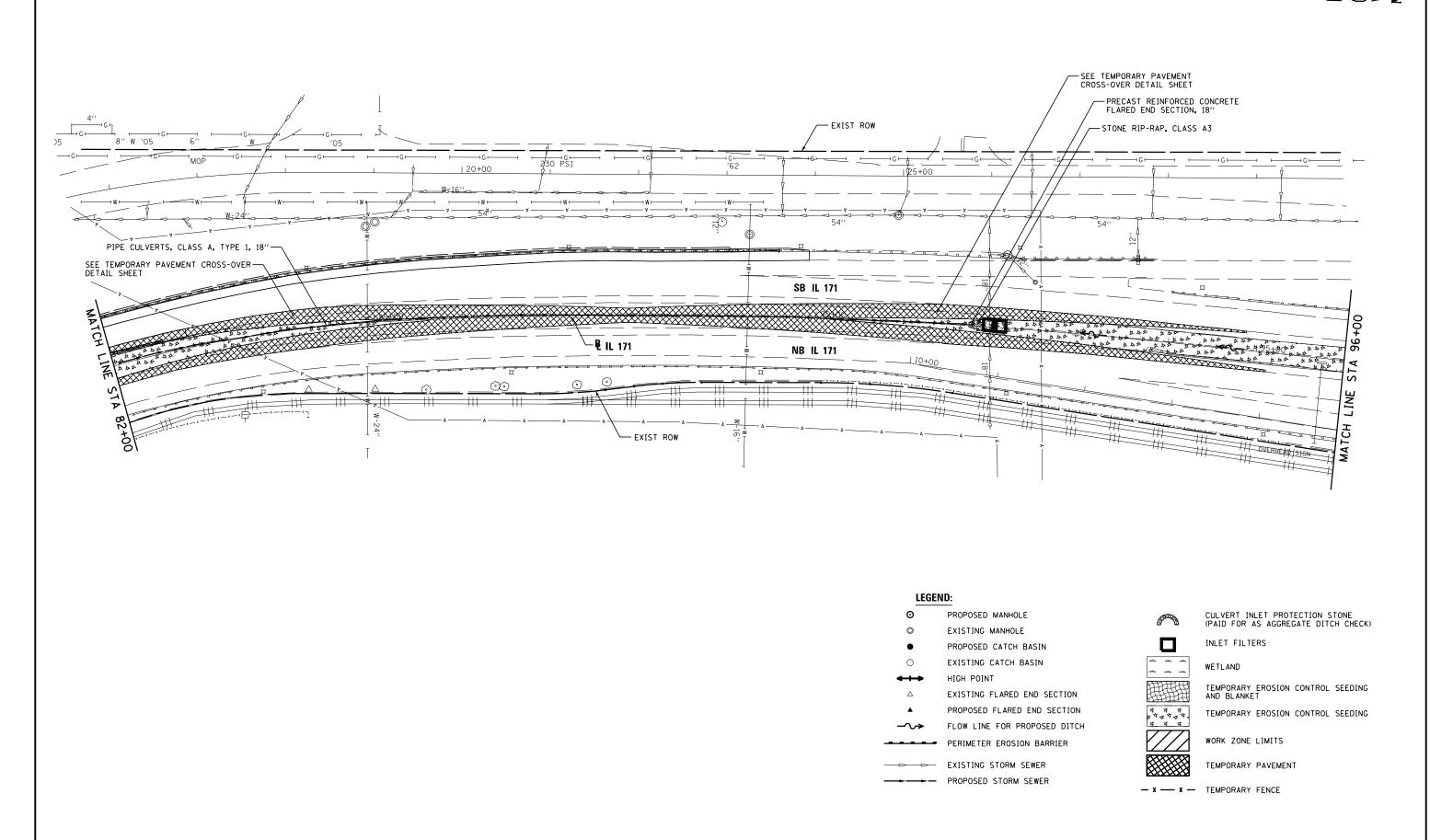








L	FILE NAME =	DESIGNED - AAA	REVISED -				EROSION CONTROL	F.A.P	SECTION	COUNTY	TOTAL S	SHEET NO.
L	\D160J16-sht-IL171-es-SB-06.dgn	DRAWN - TMB	REVISED -	benesch	STATE OF ILLINOIS		IL 171	372/373	2013-038B-R	соок	821	120
L	USER NAME = tblank	CHECKED - WS	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION					CONTRACT		0J16
L	PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50" SHEET	9 OF 13 SHEETS STA. 68+00.00 TO STA. 82+00.00		ILLINOIS FED. A	AID PROJECT		

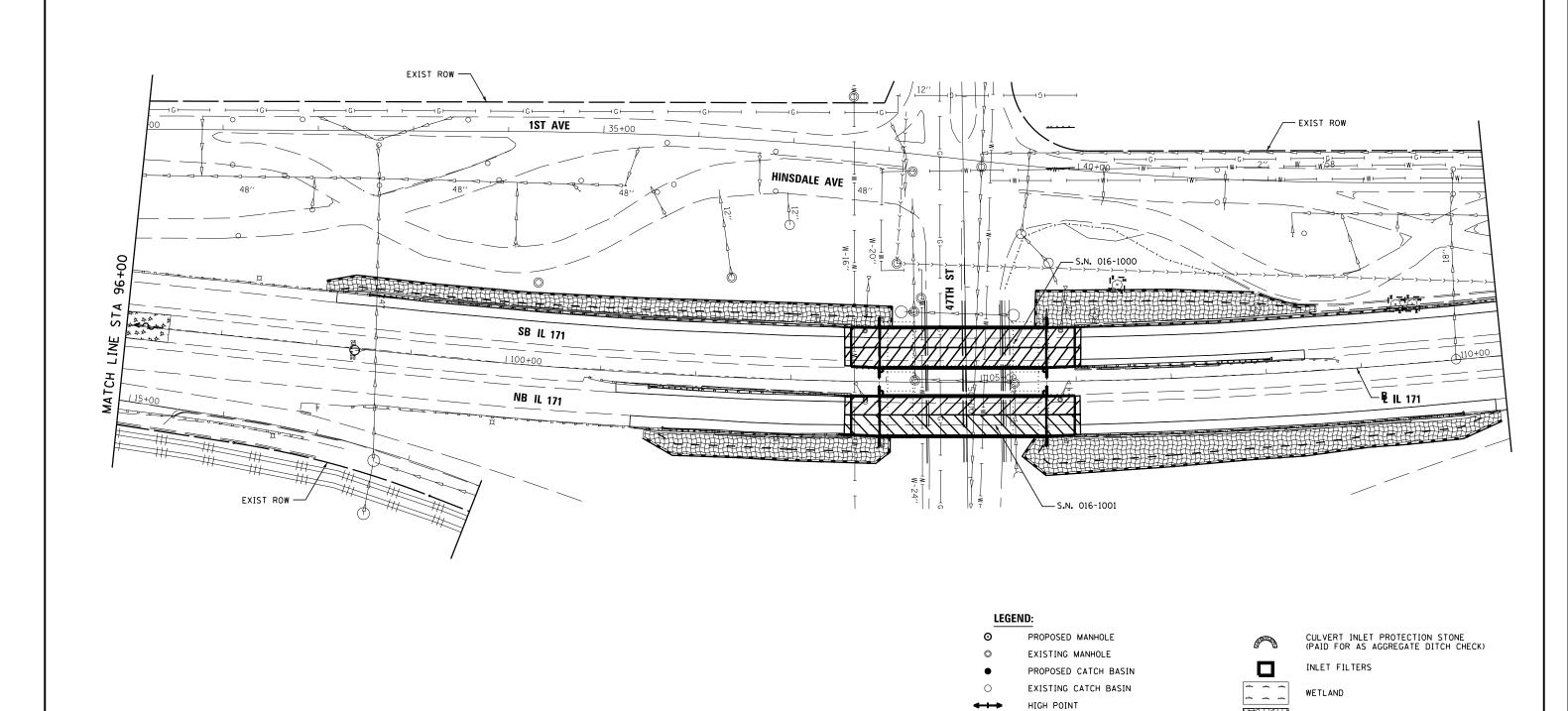


FILE NAME -	DESIGNED - AAA	KEVISED -	l
\D160J16-sht-IL171-es-SB-07.dgn	DRAWN - TMB	REVISED -	<b>benesch</b>
USER NAME = tblank	CHECKED - WS	REVISED -	engineers - scientists - planner
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -	,

STATI	E OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	l

SCALE: 1"=50"

	ERO	OISC	N CON.	TROL				RTÉ.	
		ı	IL 171					372/373	
			IL 1/1						
SHEET	10 of	13	SHEETS	STA.	82+00.00	TO STA.	96+00.00		



FILE NAME =	DESIGNED	-	AAA	REVISED -	
\D160J16-sht-IL171-es-SB-08.dgn	DRAWN	-	тмв	REVISED -	
USER NAME = tblank	CHECKED	-	WS	REVISED -	
PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -	



STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

			EROSIC	N CON	TROL			F.A.P RTE.	
				IL 171				372/373	
SCALE:	1′′=50′	SHEET	11 OF 13	SHEETS	STA.	96+00.00	TO STA. 110+00.00		

EXISTING FLARED END SECTION
PROPOSED FLARED END SECTION

FLOW LINE FOR PROPOSED DITCH

- PERIMETER EROSION BARRIER

EXISTING STORM SEWER

-- PROPOSED STORM SEWER

	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	372/373	2013-038B-R	соок	821	122
			CONTRACT	NO.	60J16
ו		ILLINOIS FED. A	ID PROJECT		

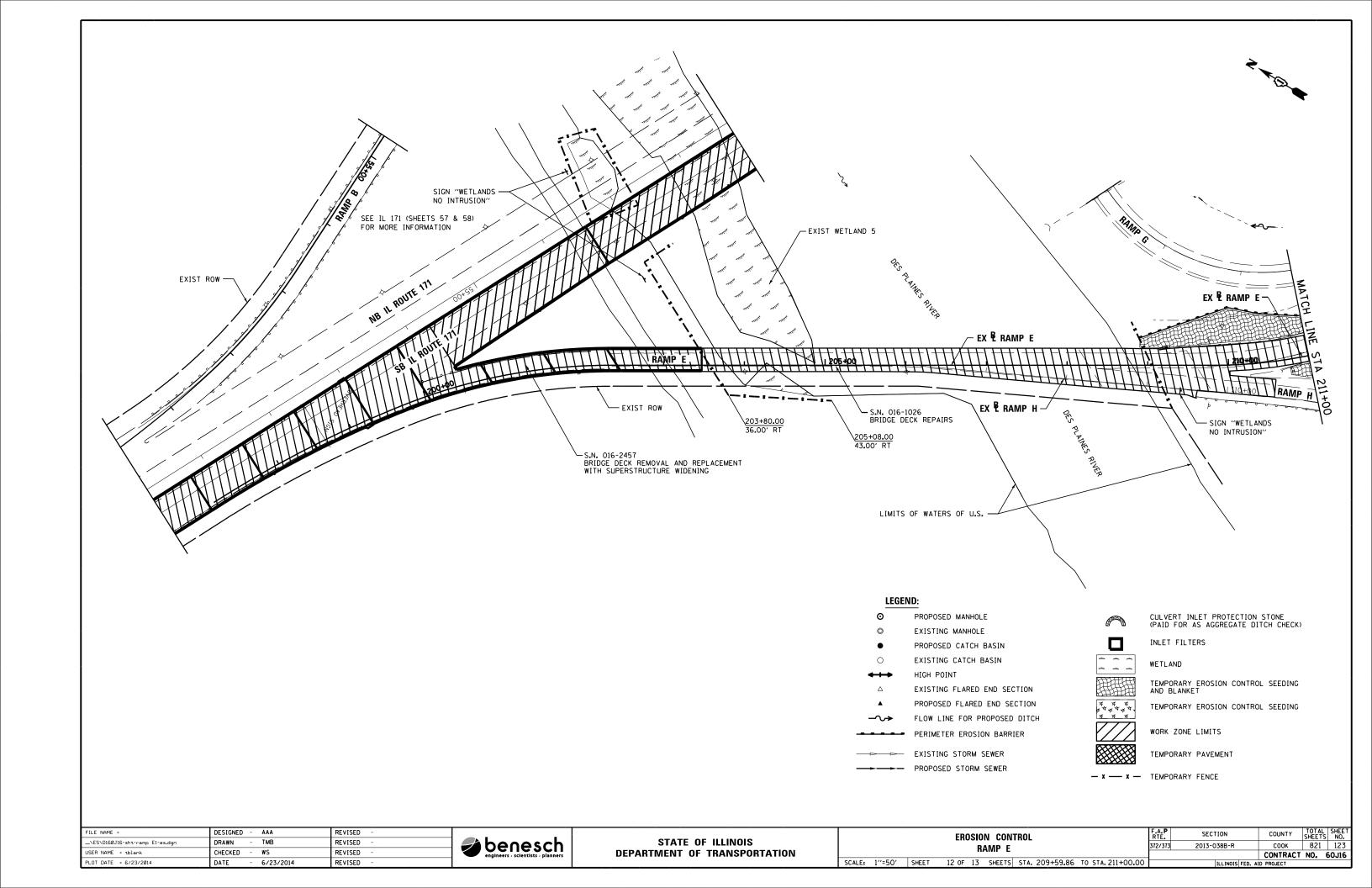
TEMPORARY EROSION CONTROL SEEDING AND BLANKET

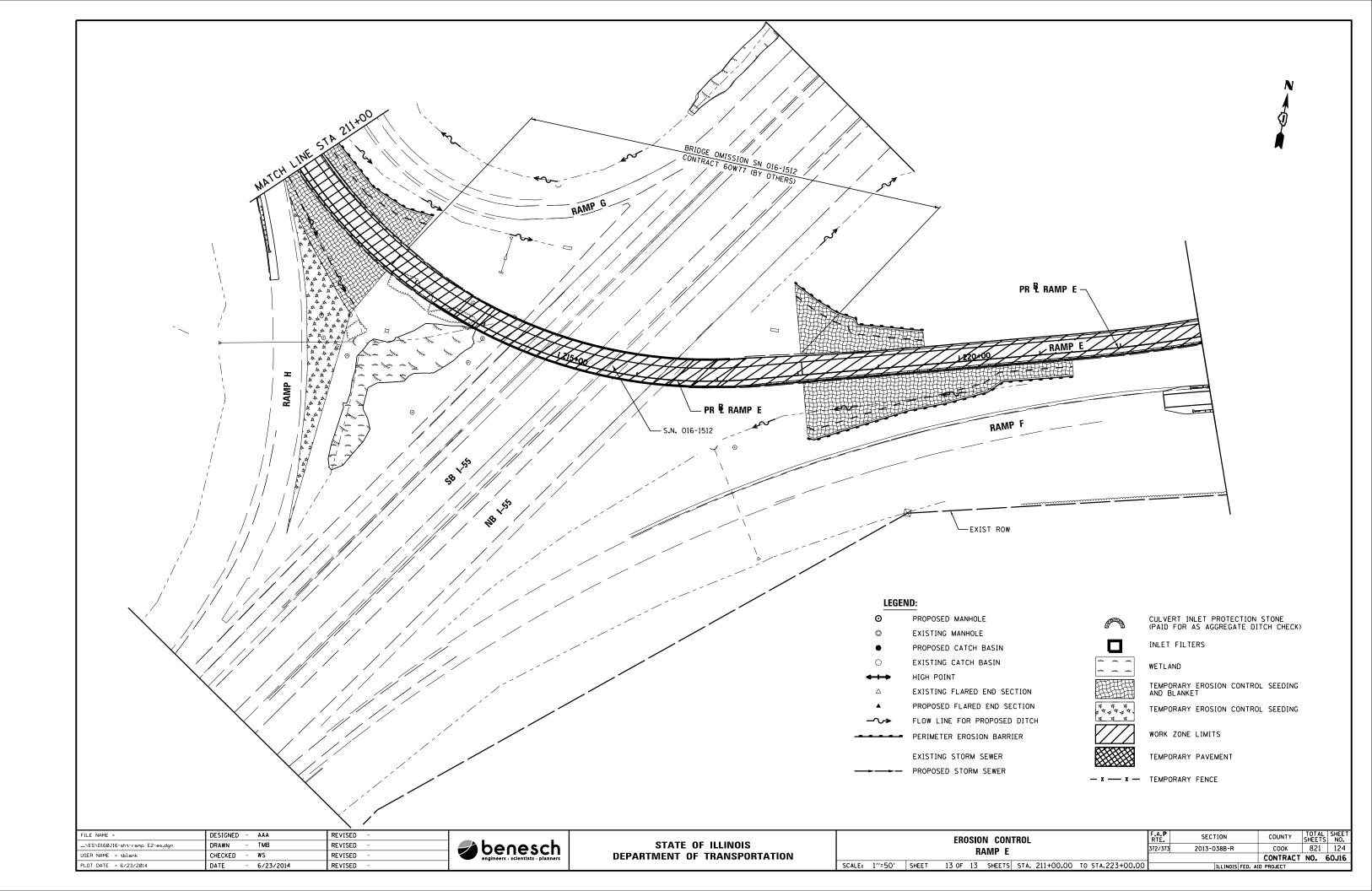
TEMPORARY EROSION CONTROL SEEDING

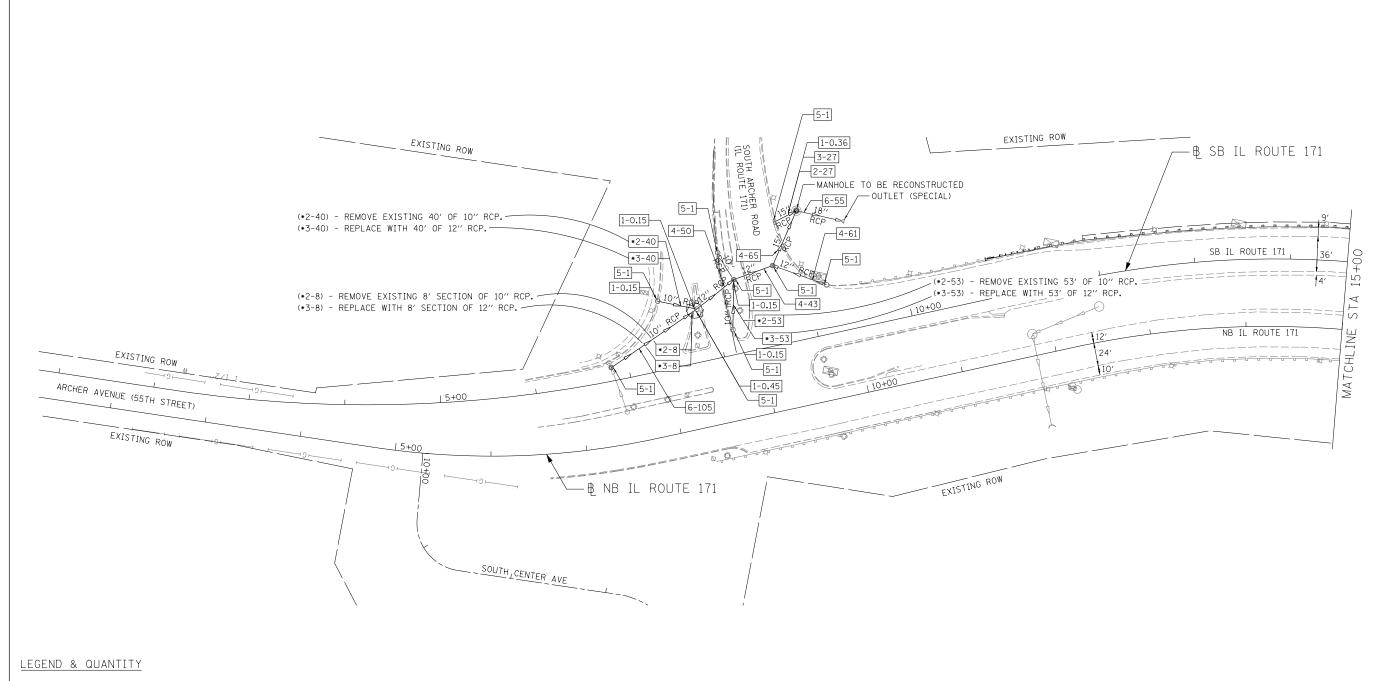
WORK ZONE LIMITS

- x --- x -- TEMPORARY FENCE

TEMPORARY PAVEMENT







MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU, YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

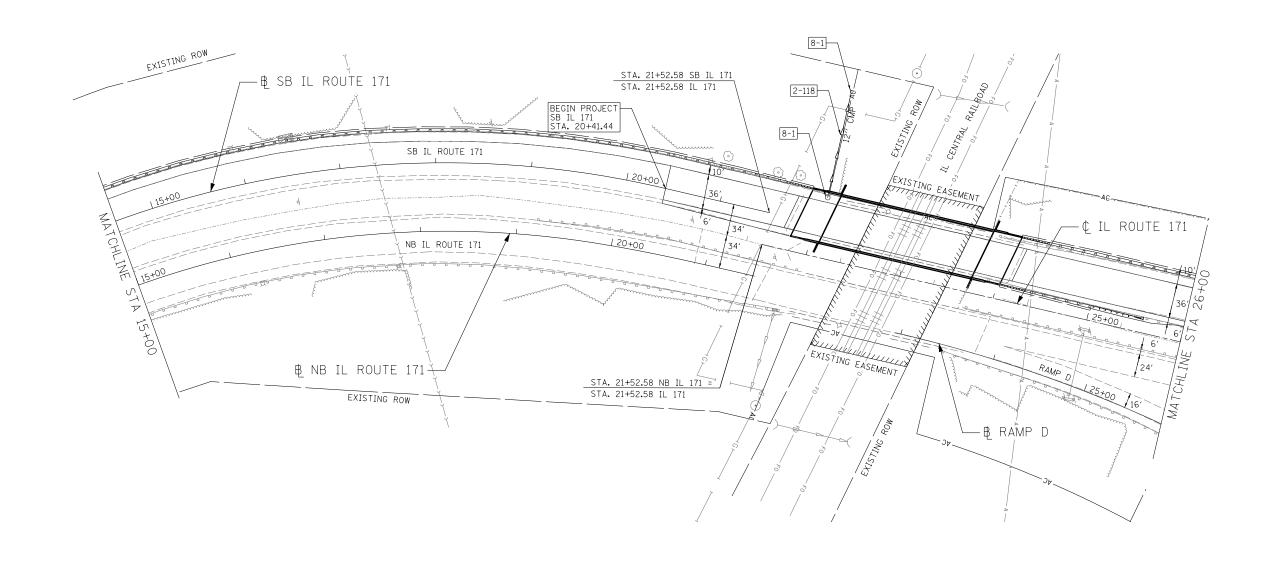
8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

 . IN ENGINEEDING LTD	USER NAME = Plotted by Lin21	DESIGNED -	SGL	REVISED -	
LIN ENGINEERING,LTD.		DRAWN -	SGL	REVISED -	
Consulting Engineers  Westmont Illinois	PLOT SCALE = 100.0000 ' / in.	CHECKED -	CRV	REVISED -	
vvesunoni, mindis	PLOT DATE = 6/23/2014	DATE -	6/23/2014	REVISED -	$\perp$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	IL ROUTE 1	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	EXISTING STORM SEWER	372/373	2013-038B-R	COOK	821	125	
					CONTRACT NO.		60J16
SCALE: 1"=50"	SHEET NO. 1 OF 9 SHEETS	STA. 1+24.28 TO STA. 15+00.00		ILLINOIS FED. AI	ID PROJECT		

SCALE IN FEET



## <u>LEGEND & QUANTITY</u>

MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

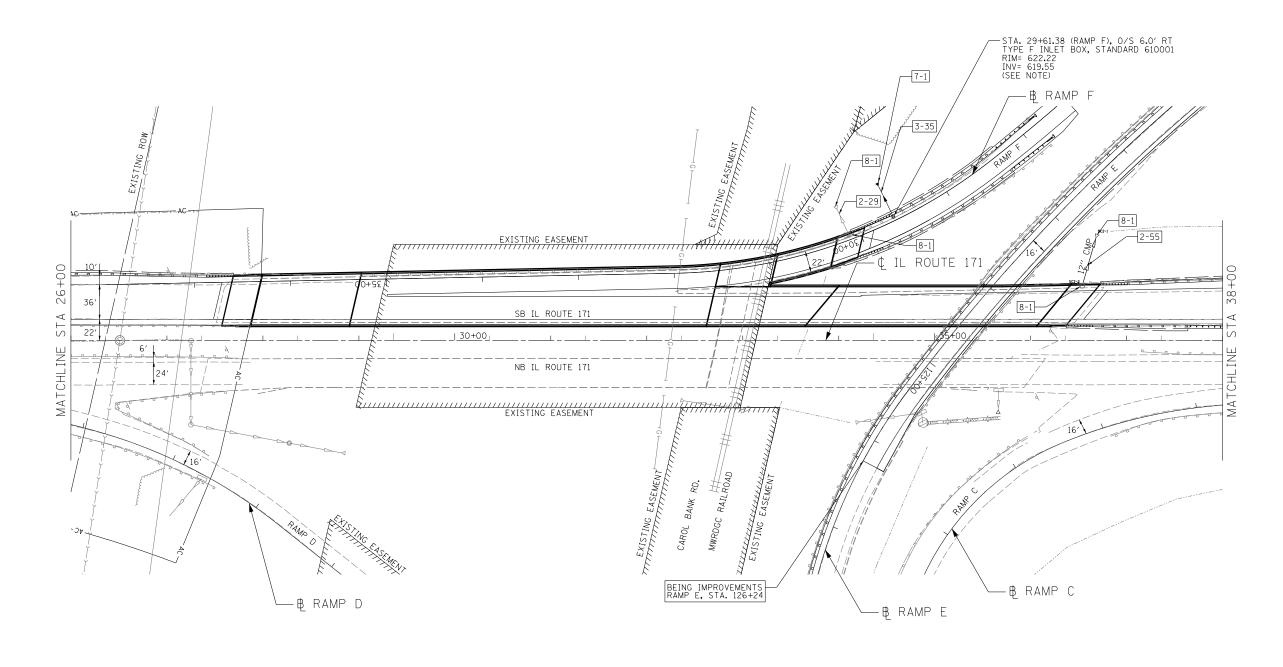
6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

		7			
50	o		50		100
	SCAL	_E IN	FEET		
SECTION		COU	INTY	TOTAL	SHE

- LIN ENGINEERING LTD	USER NAME = Plotted by Lin21	DESIGNED - SGL	REVISED -			IL ROUTE	171	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
Consulting Engineers		DRAWN - SGL	REVISED -	STATE OF ILLINOIS		EXISTING STORM SEWER		372/373	2013-038B-R	COOK	821	126
Westmont, Illinois	PLOT SCALE = 100.00000 ' / 10.	CHECKED - CRV	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO. 6	0J16
	PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -		SCALE: 1"=50"	SHEET NO. 2 OF 9 SHEETS	STA. 15+00.00 TO STA. 26+00.00		ILLINOIS FED. AI	D PROJECT		



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

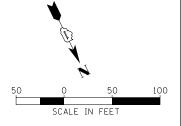
4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

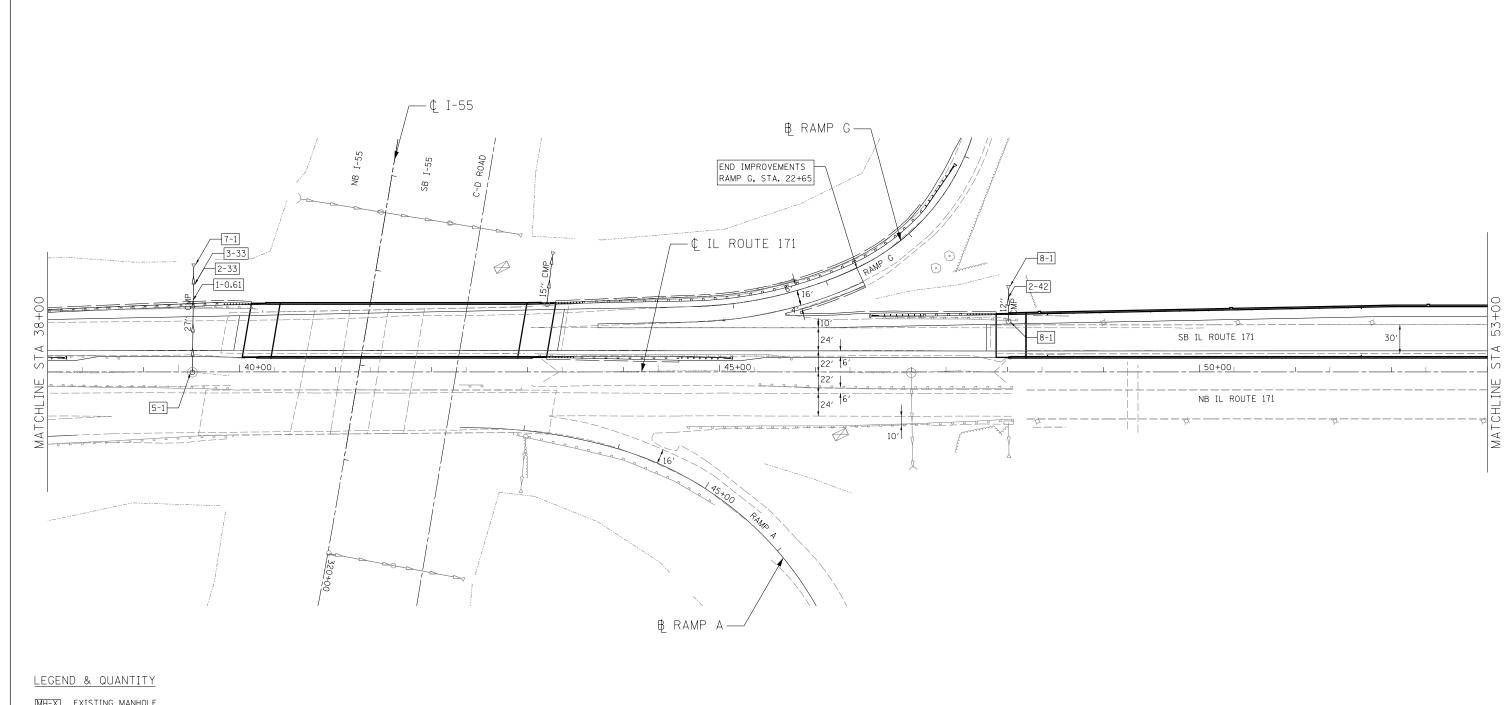


- 1			USER NAME = Plotted by Lin21	DESIGNED	-	20L	KENIZED	-	
		LIN ENGINEERING,LTD.		DRAWN	-	SGL	REVISED	-	
		Consulting Engineers	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	CRV	REVISED	-	
	_	Westmont, Illinois	PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED	-	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SCALE: 1"=50"

IL ROUTE 171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EXISTING STORM SEWER DRAINAGE PLAN	372/373	2013-038B-R	COOK	821	127
EXISTING STORM SEVER DIAMAGE LEAN			CONTRACT	T NO. 6	0J16
SHEET NO. 3 OF 9 SHEETS STA. 26+00.00 TO STA. 38+00.00		ILLINOIS FED. AI	D PROJECT		



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

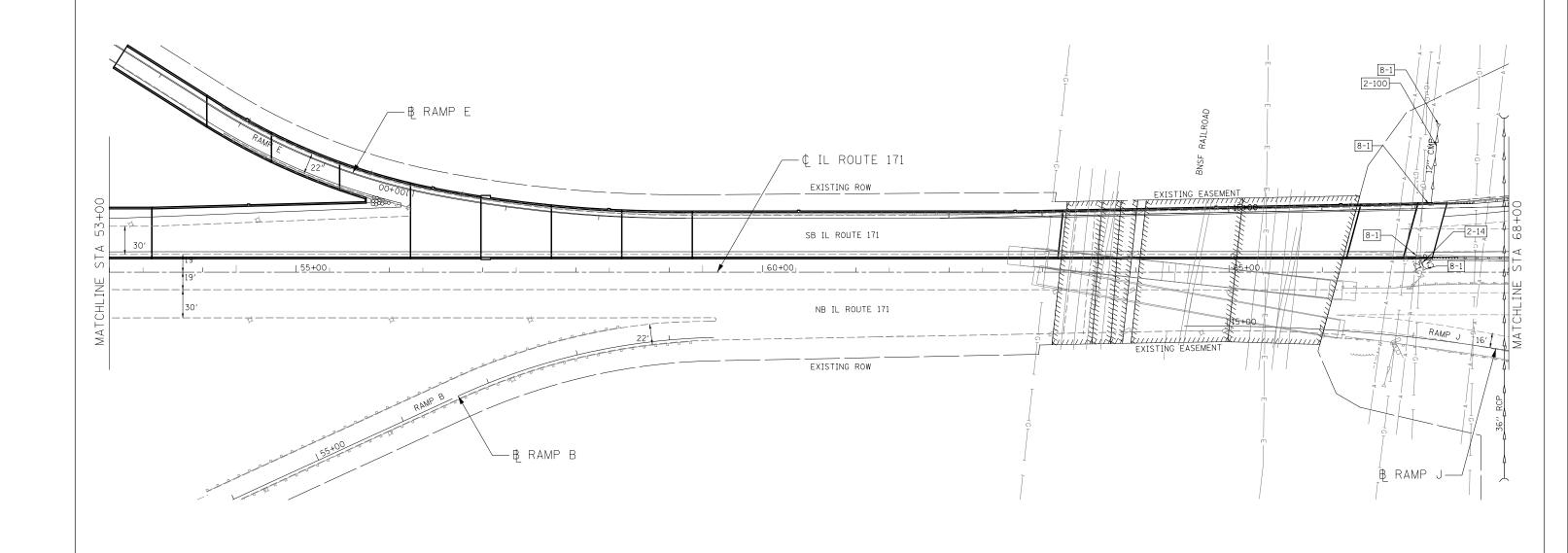
7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

					SCA	LE IN FEET		
CTATE OF HILINOIS		IL ROUTE	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS		EXISTING STORM SEWER	DRAINAGE PLAN	372/373	2013-038B-R	COOK	821	128
DEPARTMENT OF TRANSPORTATION	50415 477507	CUEST NO. 4 OF O CUESTS	CT1 70:00 00 T0 CT1 57:00 00			CONTRAC	T NO. 6	60J16



	USER NAME - Flotted by Linzi	DESIGNED	_	30L	KENISED -	
LTD.		DRAWN	-	SGL	REVISED -	
3	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	CRV	REVISED -	
	PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -	



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

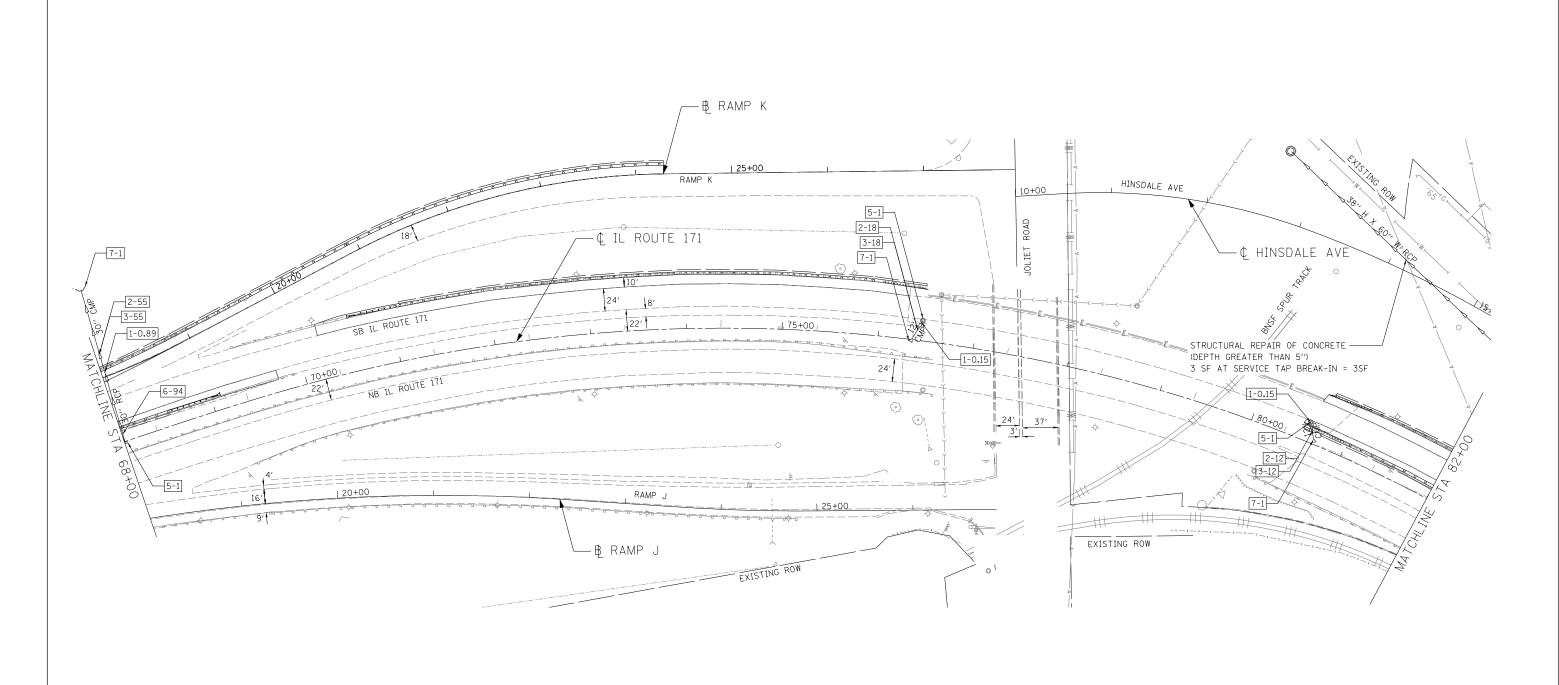
7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

				SCAL	E IN FEET		
	IL ROUTE	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	EXISTING STORM SEWER	R DRAINAGE PLAN	372/373	2013-038B-R	COOK	821	129
L	EXISTING STORM SEVER	DIMINAGE LEAN			CONTRAC	T NO. 6	60J16
	SCALE: 1"=50" SHEET NO. 5 OF 9 SHEETS	STA. 53+00.00 TO STA. 68+00.00		ILLINOIS FED. AI	D PROJECT		

		USER NAME = Plotted by Lin2l	DESIGNED	-	SGL	REVISED	-
	LIN ENGINEERING,LTD.		DRAWN	-	SGL	REVISED	-
	Consulting Engineers	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	CRV	REVISED	-
	Westmont, Illinois	PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

LIN ENGINEERING,LTD.

Consulting Engineers

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

USER NAME = Plotted by Lin21

PLOT SCALE = 100.0000 '/ in.

PLOT DATE = 6/23/2014

DESIGNED - SGL

DRAWN - SGL

DATE

CHECKED - CRV

- 6/23/2014

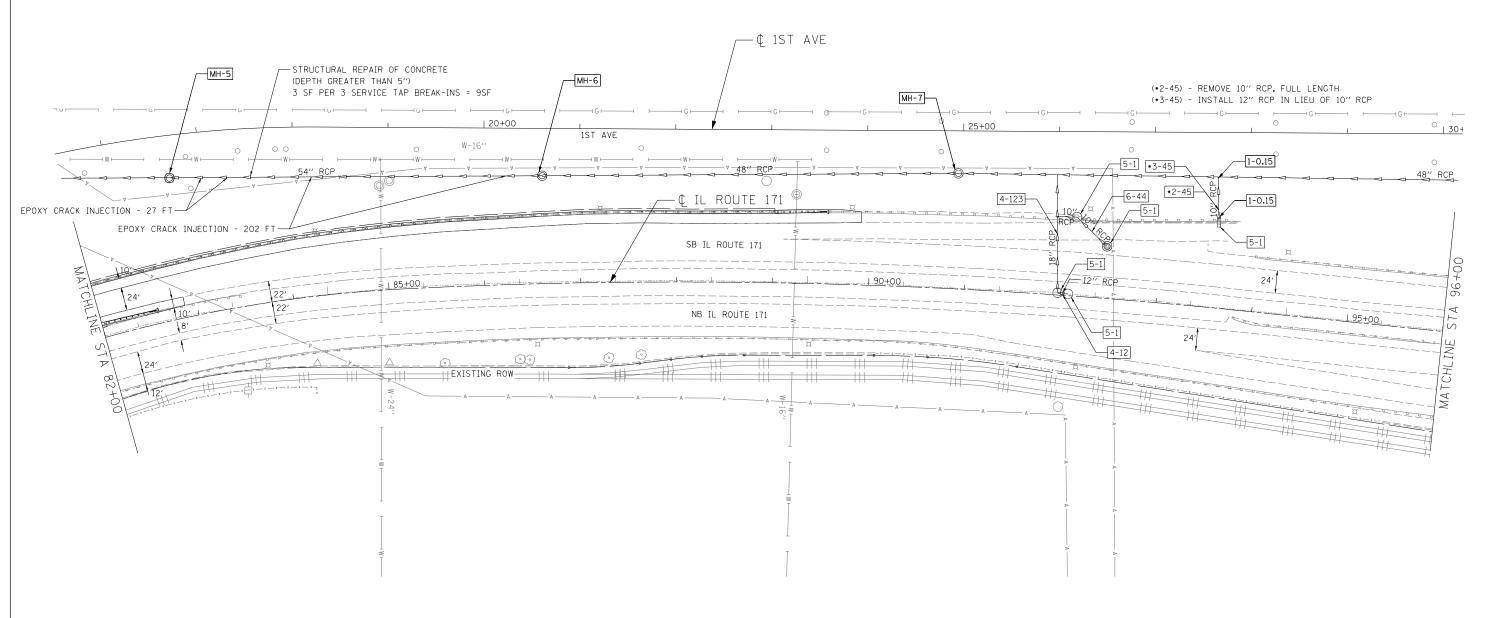
REVISED -

REVISED -

REVISED

REVISED

					SCAL	LE IN FEET		
07477 07 HILIDO		IL ROUTE 1	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS	EXISTING STORM SEWER DRAINAGE PLAN				2013-038B-R	соок	821	130
DEPARTMENT OF TRANSPORTATION			_			CONTRAC	T NO. 6	60J16
	SCALE: 1"=50"	SHEET NO. 6 OF 9 SHEETS	STA. 68+00.00 TO STA. 82+00.00		ILLINOIS FED. AI	ID PROJECT		



## <u>LEGEND & QUANTITY</u>

MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

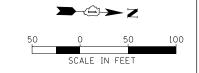
4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

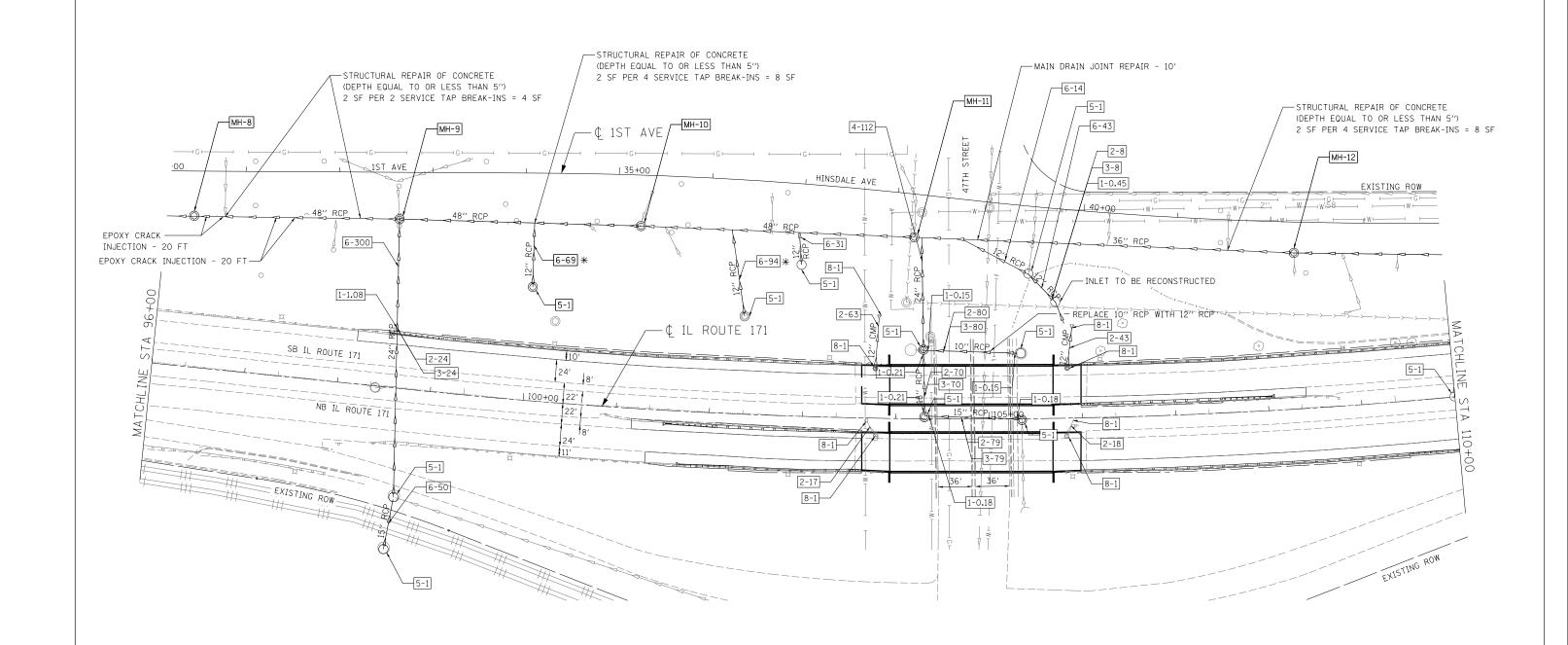
6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)



I IN ENGINEERING LTD	USER NAME = Plotted by Lin21	DESIGNED - SGL	REVISED -	27.77 27 11.11212		IL ROUTE	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
Consulting Engineers		DRAWN - SGL	REVISED -	STATE OF ILLINOIS		EXISTING STORM SEWER		372/373	2013-038B-R	COOK	821	131
— Concatang Engineers	PLOT SCALE = 100.0000 '/ in.	CHECKED - CRV	REVISED -	DEPARTMENT OF TRANSPORTATION		EXISTING STUNIN SERVEN	DRAINAGE FLAN	· ·		CONTRAC	T NO. 60	JJ16
Westmont, Illinois	PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -		SCALE: 1"=50"	SHEET NO. 7 OF 9 SHEETS	STA. 82+00.00 TO STA. 96+00.00		ILLINOIS FED. A	ID PROJECT		



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

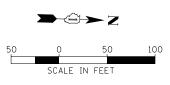
5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

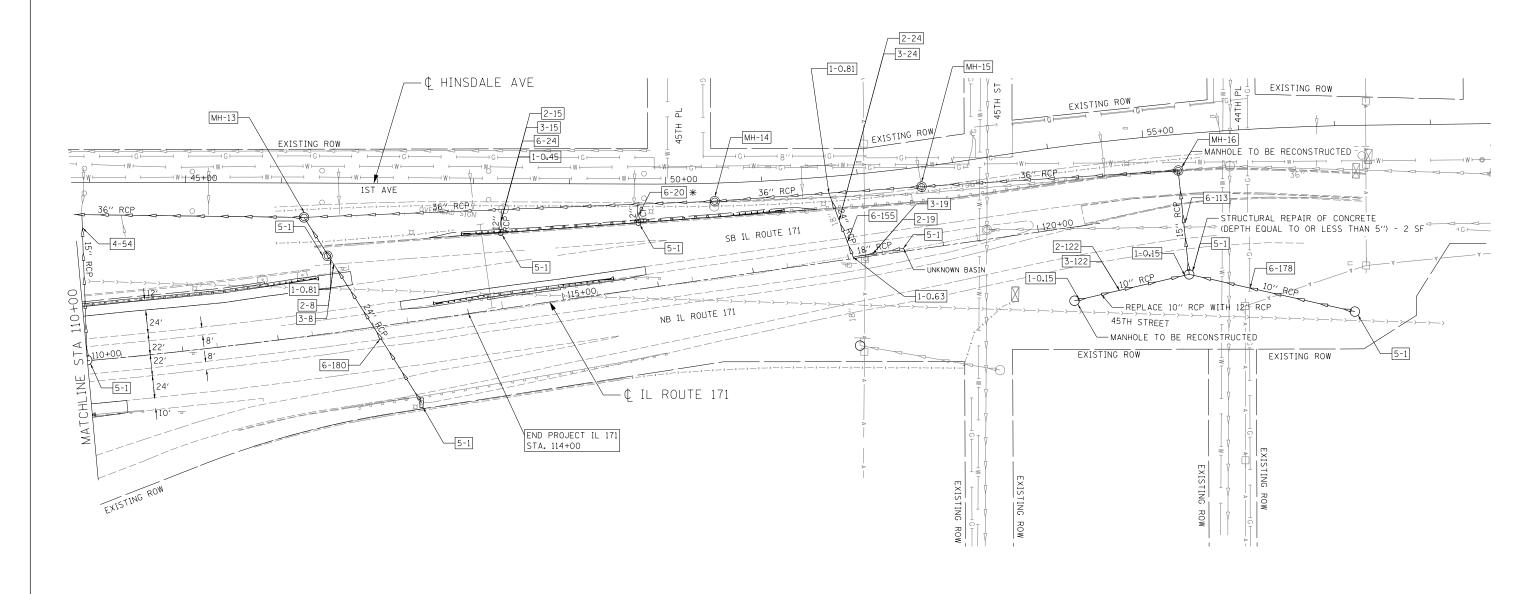
7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

\* TELEVISING HAS NOT BE COMPLETED FOR THIS SECTION. ONCE COMPLETE ADDITIONAL DEFECTS MAY BE ADDED FOR THE NEXT SUBMITTAL.



I IN ENCINEEDING LTD.	USER NAME = Plotted by Lin21	DESIGNED - SGL	REVISED -			IL ROUTE	171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Consulting Engineers		DRAWN - SGL	REVISED -	STATE OF ILLINOIS		EXISTING STORM SEWER		372/373	2013-038B-R	соок	821 132
Westmont, Illinois	PLOT SCALE = 100.0000 '/ in.	CHECKED - CRV	REVISED -	DEPARTMENT OF TRANSPORTATION		EVISTING STOUM SEAVED	DRAINAGE FLAN			CONTRAC	T NO. 60J16
vestion, and	PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -		SCALE: 1"=50"	SHEET NO. 8 OF 9 SHEETS	STA. 96+00.00 TO STA. 110+00.00		ILLINOIS FED. A	AID PROJECT	



MH-X EXISTING MANHOLE

1-X CONCRETE COLLAR (CU. YD.)

2-X STORM SEWER OR PIPE DRAIN REMOVAL (FT.)

3-X STORM SEWER OR PIPE DRAIN INSTALLATION (FT.)

4-X CURED-IN-PLACE LINER (FT.)

5-X DRAINAGE STRUCTURES TO BE CLEANED (EA.)

6-X STORM SEWER TO BE CLEANED (FT.)

7-X END SECTIONS (EA.)

8-X DRAINAGE STRUCTURE TO BE REMOVED (EA.)

\* TELEVISING HAS NOT BEEN COMPLETED FOR THIS SECTION. ONCE COMPLETE ADDITIONAL DEFECTS MAY BE ADDED FOR THE NEXT SUBMITTAL.

		€	
50	,	50	100
	SCALE	IN FEET	

IN ENGINEERING LT	USER NAME = Plotted by Lin21	DESIGNED - SGL	REVISED -			IL ROUTE 171	F.A.P.	SECTION	COUNTY TOTAL SHEET
EIN ENGINEERING,ET	D.	DRAWN - SGL	REVISED -	STATE OF ILLINOIS			372/373	2013-038B-R	COOK 821 133
	PLOT SCALE = 100.0000 '/ in.	CHECKED - CRV	REVISED -	DEPARTMENT OF TRANSPORTATION		EXISTING STORM SEWER DRAINAGE PLAN			CONTRACT NO. 60J16
Westmont, Illinois	PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -		SCALE: 1"=50"	SHEET NO. 9 OF 9 SHEETS STA. 110+00.00 TO STA. 120+65.86	1	ILLINOIS FED	AID PROJECT

#### GENERAL NOTES

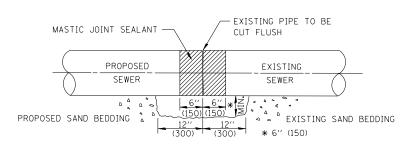
- . CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
- 2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.
- 3. CONCRETE COLLARS SHALL BE CONSTRUCTED OF CLASS SI CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.
- 4. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, REINFORCEMENT BARS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR CONCRETE COLLAR, WHICH PRICE SHALL INCLUDE FURNISHING AND INSTALLING THE REINFORCEMENT BARS COMPLETE IN PLACE.
- 5. ANCHOR BOLTS, WHEN REQUIRED, WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR CONCRETE COLLAR, WHICH PRICE SHALL INCLUDE FURNISHING, DRILLING HOLES, AND INSTALLING THE ANCHOR BOLTS COMPLETE IN PLACE. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.
- 6. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER.

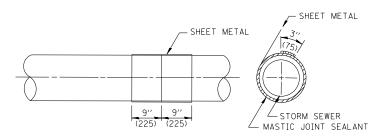
#### **CONCRETE COLLAR** ≤ 27" PIPE DIAMETER

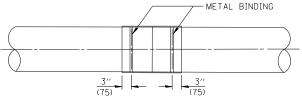
# CONSTRUCTION SEQUENCE

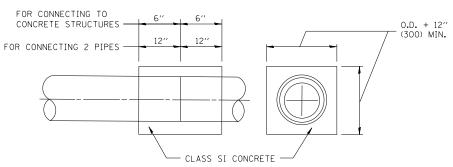
- 1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- 2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- 3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' × 6' (300 × 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
- 5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- 6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- 7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- 8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

QUANTITIES FO	R CONCRETE PIPES
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED FOR A 24" COLLAR WIDTH
INCH	CU.YD.
10''	0.26
12''	0.30
15''	0.36
18''	0.42
21''	0.48
24"	0.54
27''	0.61

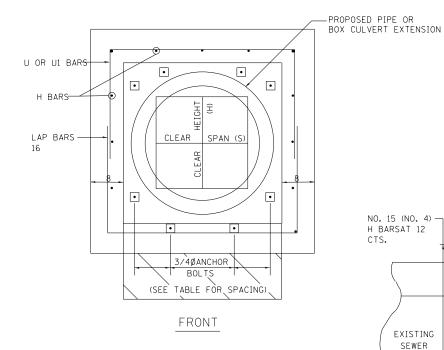








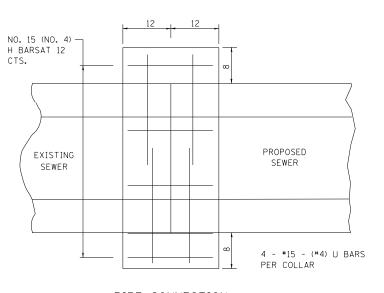
# CONCRETE COLLAR > 27" PIPE DIAMETER



#### PLACEMENT DETAILS FOR ANCHOR BOLTS

			CHOR BOLTS REQUIRED PER SID				
	EXTENSIONS -	< 15'	EXTENSIONS :				
H OR S	NUMBER	SPACING	NUMBER	SPACING			
30	2	18	2	18			
36	2	24	2	24			
48	3	18	3	18			
60	4	16	3	24			
72	5	15	4	20			
84	5	18	4	24			
96	6	15	5	21			
108	6	19	5	24			
120	7	18	6	21			
132	8	17	6	24			
144	8	19	7	22			

SCALE: N.T.S.



PIPE CONNECTION

LIN ENGINEERING,LTD.	
Consulting Engineers	
Westmont, Illinois	-

	USER NAME = Plotted by Lin21	DESIGNED	-	SGL	REVISED -
D.		DRAWN	-	SGL	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED	-	CRV	REVISED -
	PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONCRETE COLLA	R DETAIL		372/373	2013-038B-R	COOK	821	134
OUNDILLE GOLLA	I DEIAIL				CONTRAC	T NO. 6	SOJ16
SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

			1				T		1		1		1			1	_
			54248510	55100400	55100500	55100700	55100900	55101200	55106025	55106035	55106045	55106060	59000200	60100945	60101005	60101105	60900515
																	1
DRAINA	GE SCHEDULE		CONCRETE	STORM SEWER		STORM SEWER	1	EPOXY CRACK	DIDE DRAING 43	L DIDE DDAING 27	DIDE DDAING 2011	CONCRETE					
			COLLAR	REMOVAL 10"	REMOVAL 12"	REMOVAL 15"	REMOVAL 18"	REMOVAL 24"	INSTALLATION 12"	INSTALLATION 15"	INSTALLATION 18"	INSTALLATION 24"	INJECTION	PIPE DRAINS 12"	PIPE DRAINS 27"	PIPE DRAINS 30"	THRUST BLOCKS
																	1
Chatian Office	Charles Offers	Alignment	CILVD	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT			F.T.	FACIL
Station Offset 6+81.97 14.1 LT	Station Offset 7+82.30 54.8 LT	SB IL 171	CU YD	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH
7+46.65 70.6 LT	7+80.01 55.9 LT	SB IL 171	0.3	40					40								
6+81.97 14.1 LT	7+79.99 53.9 LT	SB IL 171	0.45	8					8								1
7+82.30 54.8 LT 8+14.54 26.0 LT	8+26.43 76.7 LT 8+26.43 76.7 LT	SB IL 171 SB IL 171	0.3	53					53								
8+26.43 76.7 LT	8+69.28 82.3 LT	SB IL 171															
8+69.28 82.3 LT	9+05.62 132.9 LT	SB IL 171															<u> </u>
8+69.28 82.3 LT 8+80.71 126.2 LT	9+19.91 50.6 LT 9+05.62 132.9 LT	SB IL 171 SB IL 171	0.36			27				27							
9+05.62 132.9 LT	9+48.53 112.9 LT	SB IL 171															
22+08.15 63.1 LT	22+07.22 174.1 LT	IL 171			118												<del> </del>
36+53.75 57.1 LT 39+50.78 0.4 RT	36+68.07 107.1 LT 39+51.99 108.9 LT	IL 171	0.61												33		3
48+01.04 52.6 LT	48+00.98 86.4 LT	IL 171															
67+03.40 17.2 LT	67+08.46 6.1 LT	IL 171															1
67+16.72 72.5 LT 68+00.54 1.6 RT	67+24.20 155.2 LT 68+07.50 163.5 LT	IL 171	0.89												+	55	5
76+35.69 1.2 LT	76+44.39 21.1 LT	IL 171	0.15											18			2
79+51.48 278.3 LT	82+98.60 145.8 LT	IL 171	0.45											12			
80+57.71 20.3 LT 82+98.60 145.8 LT	80+67.13 5.6 LT 86+62.44 112.5 LT	IL 171 IL 171	0.15										229	12	+		2
91+96.93 2.3 LT	91+88.33 125.0 LT	IL 171															
91+96.93 2.3 LT	92+07.74 1.8 LT	IL 171															<del> </del>
92+11.49 82.4 LT 93+51.91 136.4 LT	92+44.63 54.4 LT 93+57.19 89.5 LT	IL 171	0.3	45					45						+		<del>                                     </del>
96+29.07 161.5 LT	98+48.38 180.5 LT	IL 171	0.0										40				
98+48.41 180.5 LT	101+14.17 195.4 LT	IL 171															
98+67.29 172.9 RT 98+72.23 116.4 RT	98+72.23 116.4 RT 98+48.85 180.9 LT	IL 171	1.08					24				24			+		<del>                                     </del>
99+96.26 190.3 LT	100+00.15 121.8 LT	IL 171															
102+15.57 196.8 LT	102+33.42 104.9 LT	IL 171															1
102+90.21 196.7 LT 103+69.68 4.7 RT	102+93.68 162.4 LT 103+78.65 19.5 RT	IL 171													+		<del>                                     </del>
103+77.11 53.2 LT	103+80.16 106.8 LT	IL 171															
104+17.71 194.3 LT 104+29.06 73.3 LT	108+37.24 167.1 LT 105+30.85 70.3 LT	IL 171 IL 171	0.3	80					80								1
104+29.06 73.3 LT	104+26.01 194.1 LT	IL 171	0.3	80					80						+		
104+30.78 2.9 LT	104+29.06 73.3 LT	IL 171	0.42				70				70						
104+30.78 2.9 LT 104+70.79 192.5 LT	105+35.20 0.3 RT 105+43.78 154.6 LT	IL 171 IL 171	0.36			79				79							
104+70.79 192.5 LT 105+43.78 154.6 LT	105+43.78 154.6 LT 105+72.93 124.8 LT	IL 171	0.45		8				8								
105+82.87 19.2 RT	105+90.11 2.5 RT	IL 171															
105+84.59 53.6 LT 110+08.16 152.2 LT	105+90.34 96.5 LT 109+99.78 0.6 LT	IL 171 IL 171															
110+08.16 152.2 LT 112+62.66 80.3 LT	109+99.78 0.6 LT 113+38.64 85.0 RT	IL 1/1	0.81					8				8					
114+45.11 78.2 LT	114+49.35 102.4 LT	IL 171	0.45		15				15								
115+88.64 68.3 LT	115+90.37 87.9 LT	IL 171	0.01					24				24					
117+89.62 71.1 LT 118+05.27 1.5 LT	118+05.27 1.5 LT 118+58.43 3.1 LT	IL 171 IL 171	0.81 0.63				19	24			19	24					
120+27.15 76.1 RT	121+49.26 65.8 RT	IL 171	0.3	122					122								
121+53.23 42.8 LT	121+49.26 65.8 RT	IL 171															
121+49.26 65.8 RT 30+14.05 34.6 RT	123+14.67 113.1 RT 30+12.01 5.6 RT	IL 171 RAMP F						+									
29+61.38 39.5 RT	29+61.38 4.9 RT	RAMP F												35			3
		Total:	9.1	348	141	106	89	56	371	106	89	56	269	65	33	55	15
IN ENGINEERING	USER NAME = Plotted by Lin21	DE	SIGNED - SGL	REVIS	ED -							IL ROUTE	 : 171		F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS

		USER NAME = Plotted by Lin21	DESIGNED	-	SGL	REVISED	-
	LIN ENGINEERING,LTD.  Consulting Engineers  Westmont. Illinois		DRAWN	-	SGL	REVISED	-
		PLOT SCALE = 100.0000 '/ in.	CHECKED	-	CRV	REVISED	-
		PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED	-

	IL ROUTE 1	F.A.P. RTE.	SECTION			SHEET NO.				
	DRAINAGE PIPE S	372/373	2013-038B-R	COOK	821	135				
	DRAINAGE FIFE 3	CHEDULE			CONTRACT NO. 60J16					
SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS		ILLINOIS FED. AI	D PROJECT						

					X0323586	X0326659	X0326662	X0326850	X5537700	X5537800	X5537900	X5538000	X5538200	X5538400	Z0012754	Z0012755		
	DRAINAG	E SCHEDULE		Alignment	PIPE DRAIN REMOVAL	CURED-IN-PLACE PIPE LINER, 18"	CURED-IN-PLACE PIPE LINER, 24"	MAIN DRAIN JOINT REPAIR	STORM SEWERS TO BE CLEANED 10"	STORM SEWERS TO BE CLEANED 12"	STORM SEWERS TO BE CLEANED 15"	STORM SEWERS TO BE CLEANED 18"	STORM SEWERS TO BE CLEANED 24"	STORM SEWERS TO BE CLEANED 30"	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	CURED-IN-PLACE PIPE LINER, 12"	
Station	Offset	Station	Offset		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SF	SF	FT	FT
6+81.97		7+82.30		SB IL 171					105									
7+46.65	70.6 LT	7+80.01	55.9 LT	SB IL 171														
6+81.97	14.1 LT 54.8 LT	7+79.99		SB IL 171													F0	
7+82.30 8+14.54	26.0 LT	8+26.43 8+26.43		SB IL 171 SB IL 171													50	
8+26.43		8+69.28		SB IL 171													43	
8+69.28	82.3 LT	9+05.62	<b>.</b>	SB IL 171														65
8+69.28		9+19.91	50.6 LT	SB IL 171													61	
8+80.71		9+05.62		SB IL 171														
9+05.62		9+48.53		SB IL 171								55						
22+08.15	63.1 LT 57.1 LT	22+07.22 36+68.07	174.1 LT 107.1 LT	IL 171														
36+53.75 39+50.78		39+51.99		IL 171	55 33													
48+01.04		48+00.98		IL 171	42	<u> </u>												
67+03.40	17.2 LT	67+08.46		IL 171	14													
67+16.72	72.5 LT	67+24.20	155.2 LT	IL 171	100													
68+00.54	1.6 RT	68+07.50		IL 171	55									94				
76+35.69	1.2 LT	76+44.39	21.1 LT	IL 171	18													
79+51.48		82+98.60		IL 171												3		
80+57.71 82+98.60		80+67.13 86+62.44	5.6 LT 112.5 LT	IL 171 IL 171	12											9		
91+96.93	2.3 LT	91+88.33		IL 171		123										9		
91+96.93	2.3 LT	92+07.74	1.8 LT	IL 171		123											12	
92+11.49		92+44.63		IL 171					44									
93+51.91		93+57.19	89.5 LT	IL 171														
96+29.07		98+48.38		IL 171											4			
98+48.41		101+14.17		IL 171											8			
98+67.29		98+72.23		IL 171							50		200					
98+72.23 99+96.26		98+48.85 100+00.15		IL 171						69			300					
102+15.57		102+33.42		IL 171						94								
102+90.21		102+93.68		IL 171						31								
103+69.68		103+78.65		IL 171	17													
103+77.11		103+80.16		IL 171	63													
104+17.71			167.1 LT	IL 171				10							8			
104+29.06			70.3 LT	IL 171														
104+29.06 104+30.78			194.1 LT 73.3 LT	IL 171 IL 171		-	112		-									
104+30.78		104+29.06		IL 171		1			+									
104+70.79			154.6 LT	IL 171		1			1	14								
105+43.78		105+72.93		IL 171						43								
105+82.87	19.2 RT	105+90.11	2.5 RT	IL 171	18													
105+84.59	53.6 LT	105+90.34		IL 171	43													
110+08.16		109+99.78		IL 171														54
112+62.66		113+38.64		IL 171						24			180					
114+45.11 115+88.64		114+49.35 115+90.37		IL 171 IL 171		-			-	24 20								
115+88.64		118+05.27		IL 171					-	20			155					
118+05.27		118+58.43		IL 171									155					
120+27.15		121+49.26		IL 171														
121+53.23	42.8 LT	121+49.26		IL 171							113							
121+49.26	65.8 RT	123+14.67	113.1 RT	IL 171					178						2			
30+14.05		30+12.01		RAMP F	29													
29+61.38	39.5 RT	29+61.38	4.9 RT	RAMP F	40-	4	46-			25-	4.5-						4	
				Total:	499	123	112	10	327	295	163	55	635	94	22	12	166	119



USER NAME = Plotted by Lin21	DESIGNED	-	SGL	REVISED	-
	DRAWN	-	SGL	REVISED	-
PLOT SCALE = 100.0000 '/ in.	CHECKED	-	CRV	REVISED	-
PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED	-

STATE	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

IL ROUT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAINAGE PIPE	372/373	2013-038B-R	соок	821	136
			CONTRAC	T NO.	60J16
SCALE: N.T.S.   SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. A	ID PROJECT		

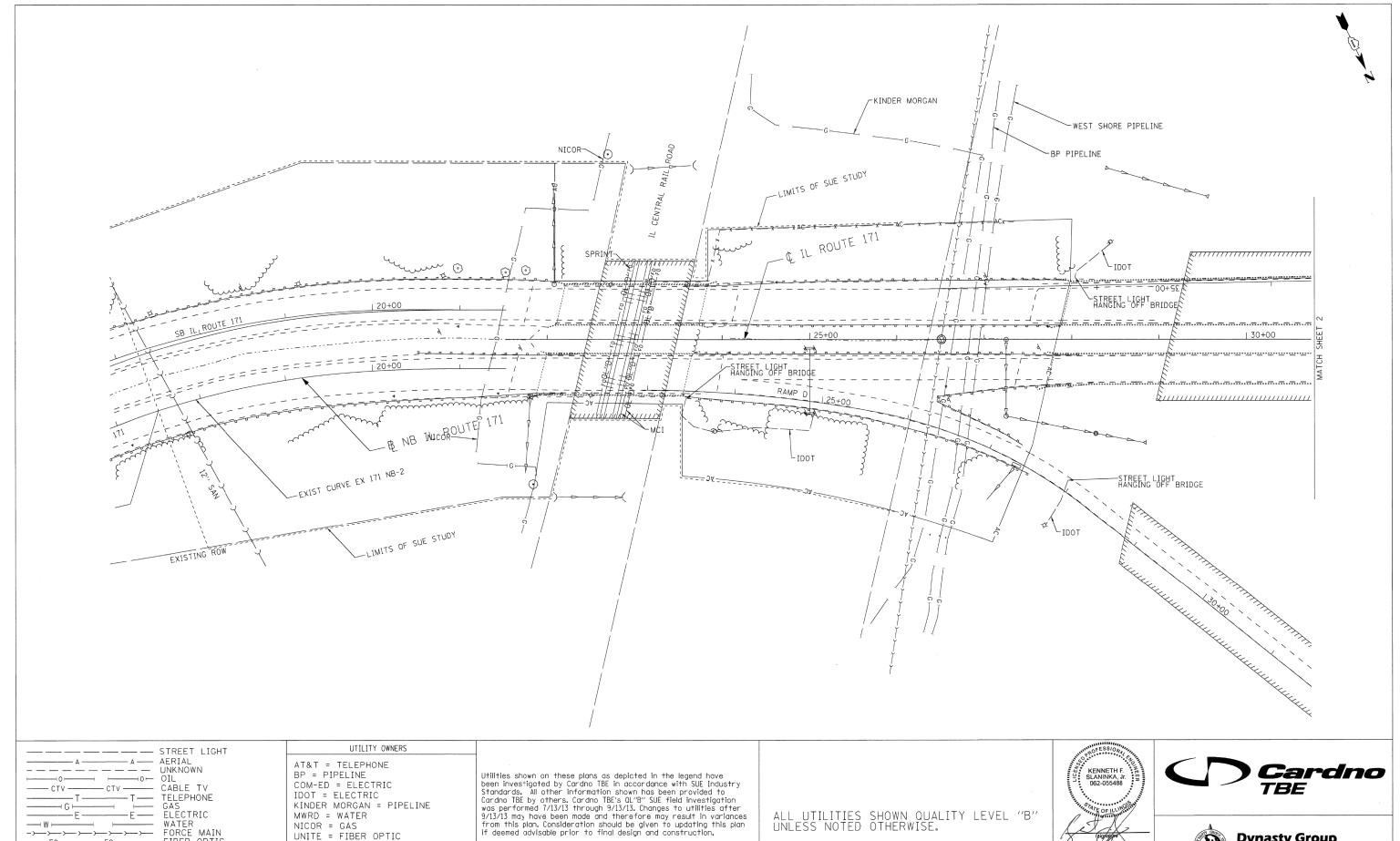
			54213447	54213462	54213465	60257900	60262700	61000225	Z0018500	Z0018700	X0324058
SCHEDULE			END SECTIONS 12"	END SECTIONS 27"	END SECTIONS 30"	MANHOLES TO BE RECONSTRUCTED	INLETS TO BE RECONSTRUCTED	TYPE F INLET BOX, STANDARD 610001	DRAINAGE STRUCTURES TO BE CLEANED	DRAINAGE STRUCTURE TO BE REMOVED	OUTLET SPECIAL
STATION	OFFSET	ALIGNMENT	EACH	EACH	EACH	EACH	EACH		EACH	EACH	EACH
6+81.97		SB IL 171	- Ditein	D. COLL	271011	E/ (e//	2,1011		1	E/ (O/)	27(0)1
7+44.36		SB IL 171							1		
7+82.30		SB IL 171							1		
8+14.54	1 26.0 LT	SB IL 171							1		
8+16.13	107.6 LT	SB IL 171							1		
8+26.43	76.7 LT	SB IL 171							1		
8+69.28	82.3 LT	SB IL 171							1		
8+80.71		SB IL 171							1		
9+05.62		SB IL 171				1					
9+19.91		SB IL 171							1		
9+48.53		SB IL 171		<u> </u>	<u> </u>						1
22+07.22		IL 171								1	
22+08.15		IL 171								1	
36+53.75		IL 171		<u> </u>						1	
36+68.07		IL 171				-				1	
39+50.78		IL 171	<b>_</b>	<del> </del>	<del> </del>	<u> </u>		<b></b> '	1		ļ
39+51.99		IL 171	<del>                                     </del>	1	<del>                                     </del>	<u> </u>		ļ'			ļ
48+00.98		IL 171	<b>_</b>			<u> </u>		ļ!		1	ļ
48+01.04		IL 171	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	<u> </u>	1	<b></b>		1	ļ
67+03.40		IL 171	<del>                                     </del>	<del> </del>		<del>                                     </del>				1	<u> </u>
67+08.46		IL 171	<u> </u>	<del>                                     </del>		<u> </u>				1	
67+16.72		IL 171		<del>                                     </del>		<u> </u>				1	
67+24.20		IL 171	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>				_	1	
68+00.63		IL 171	<del>                                     </del>	<del>                                     </del>	<del></del>	<del>                                     </del>			1		
68+07.50		IL 171		<del>                                     </del>	1	<del>                                     </del>		<del>                                     </del>			
76+35.69		IL 171	1	<del> </del>	<del>                                     </del>	<del>                                     </del>		<del></del>			
76+44.39		IL 171	<del>                                     </del>	<del> </del>	<del> </del>	<del>                                     </del>		<del>                                     </del>	1		
80+57.71		IL 171		<del>                                     </del>	+	<u> </u>		<del>                                     </del>	1	-	
80+67.13		IL 171	1	<del>                                     </del>	+	<del>                                     </del>		<del>                                     </del>	4		
91+96.93		IL 171	<del>                                     </del>	<del> </del>	+			<del>                                     </del>	1		
92+07.74		IL 171	<del>                                     </del>	<del> </del>	+	<del>                                     </del>		<del></del>	1		
92+11.49		IL 171	<del>                                     </del>	<del>                                     </del>	+	<u> </u>		<del>                                     </del>	1		<u> </u>
92+44.63		IL 171	<del>                                     </del>	<del>                                     </del>	+	<del>                                     </del>		<del>                                     </del>	1	-	
93+57.19		IL 171	<del>                                     </del>	<del> </del>	<del> </del>	<u> </u>		<del>                                     </del>	1		
98+67.29		IL 171	<del>                                     </del>	<del> </del>	<del> </del>			<del></del>	1		
98+72.23		IL 171	<del>                                     </del>	+	<del>                                     </del>	<u> </u>		<del>                                     </del>	1	-	
100+00.15		IL 171	<del>                                     </del>	<del>                                     </del>	+	<del>                                     </del>		<del>                                     </del>	1		
102+33.42		IL 171	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>		<del>                                     </del>	1		
102+93.68		IL 171	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>		<del>                                     </del>	1	1	<u> </u>
103+69.68		IL 171	<del>                                     </del>	<del>                                     </del>	+			<del>                                     </del>		1	
103+77.11 103+78.65		IL 171 IL 171	+	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>		1 1	
103+78.65		IL 171	+	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>		1	
103+80.16		IL 171	+	+	+	+	1	<del>                                     </del>	1	1	
104+28.97		IL 171	+	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>	1		<del>                                     </del>
104+30.58		IL 171	+	<del>                                     </del>	<del>                                     </del>			<del>                                     </del>	1		
105+34.65		IL 171	<del>                                     </del>	<u> </u>	<del>                                     </del>				1		
105+33.10		IL 171	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>				1		
105+72.93		IL 171	<del>                                     </del>		<del>                                     </del>	<del>                                     </del>	1				
105+72.93		IL 171	<del>                                     </del>	<u> </u>	<u> </u>	<del> </del>				1	
105+84.59		IL 171	+	<u> </u>	<u> </u>	<del>                                     </del>				1	
105+90.11		IL 171	+	<u> </u>	<u> </u>	<del>                                     </del>				1	
105+90.34		IL 171	1	1	<u> </u>	<del>                                     </del>				1	1
109+99.78		IL 171	1	<u> </u>	<del>                                     </del>	<del>                                     </del>			1		
112+62.66		IL 171	1	1	<u> </u>	<del>                                     </del>			1		
113+38.64		IL 171	1		<u> </u>	<del>                                     </del>			1		
114+45.11		IL 171	<del>                                     </del>		<u> </u>	<del>                                     </del>			1		
115+88.64		IL 171	<del>                                     </del>		<u> </u>	<del>                                     </del>			1		
118+58.43		IL 171	1						1		
120+27.15		IL 171	1		<u> </u>	1			_		
121+49.00		IL 171	1	1	<u> </u>	<del>-</del>			1		
121+53.23		IL 171	1	1	<u> </u>	1					
123+15.00		IL 171	<del>                                     </del>		<u> </u>	<del>-</del>			1		
29+61.38		RAMP F	1		<del>                                     </del>			1	<u> </u>		
		RAMP F	<del></del>	<u> </u>	<u> </u>	<del> </del>				1	
	34 61RT										1
30+14.05 30+12.01		RAMP F	i i					1		1	

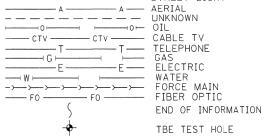
LIN ENGINEERING,LTD
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Lin21	DESIGNED	-	SGL	REVISED -
	DRAWN	-	SGL	REVISED -
PLOT SCALE = 100.0000 '/ in.	CHECKED	-	CRV	REVISED -
PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	IL ROUTE 171					A.P. SECTION COUNTY TO SHI				
	DRAINAGE STRUCTUR	372/373	2013-038B-R	COOK	821	137				
DRAINAGE STRUCTURE SCHEDULE						CONTRAC	T NO.	60J16		
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT					





Utility Quality Level "D": Records Research

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

DESIGNED IP DRAWN KLC CHECKED KFS DATE 9/20/13

VILLAGE OF McCOOK = WATER WEST SHORE = PIPELINE

REVISED

REVISED

REVISED

REVISED

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 



IL 171 (1st Ave.) 47th Street to 55th Street

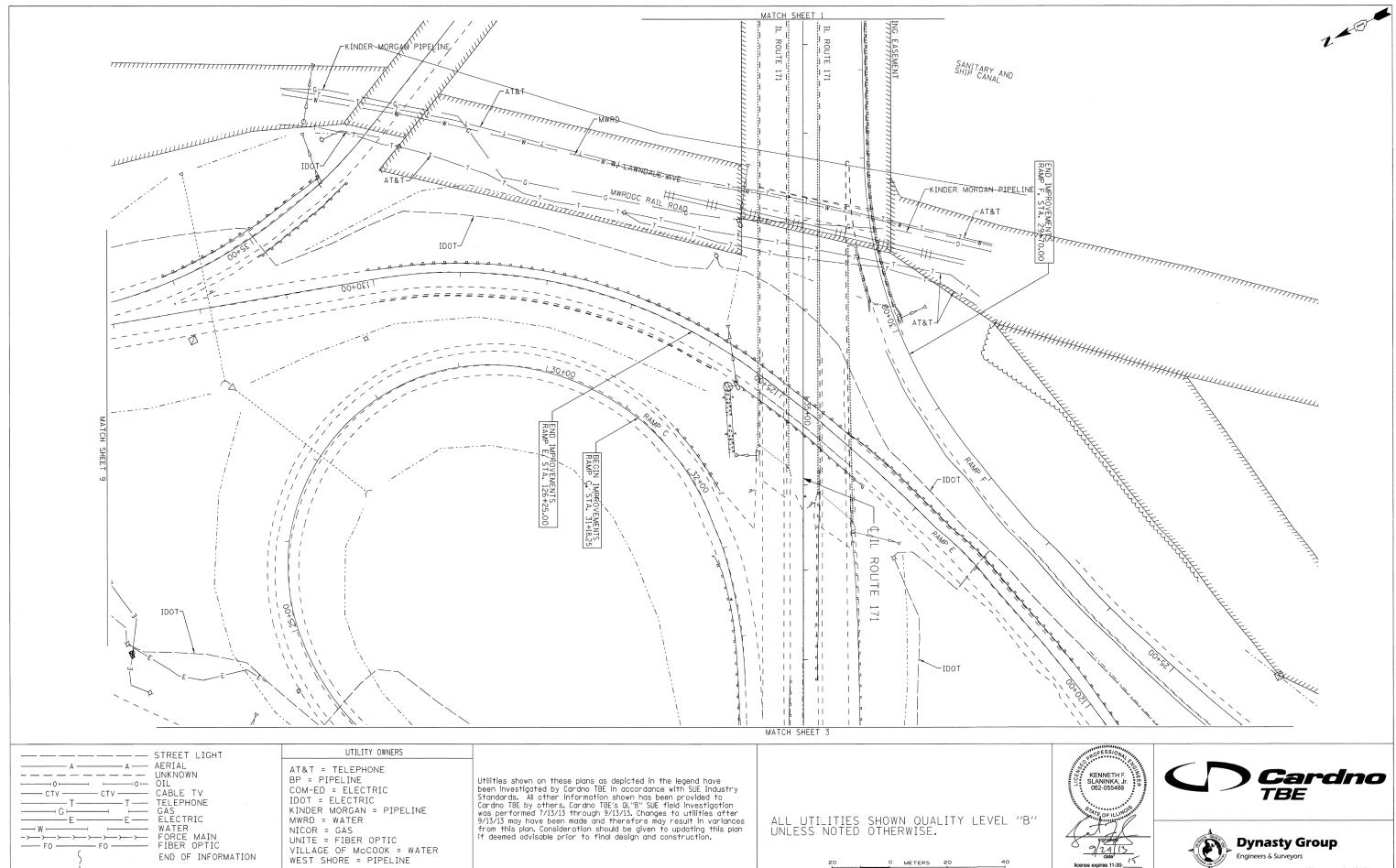
**Summit, Illinois** 





TBE Job No. IL09510524 SUE Plan Page: 1 of 12

COUNTY TOTAL SHEET SHEETS NO. SECTION Cook 821 138 0707-608HB-R Contract No. 60J16 FED. ROAD DIST. NO. \_ ILLINOIS IDOT Project No.



REVISED REVISED REVISED

REVISED

END OF INFORMATION TBE TEST HOLE

DESIGNED IP

DRAWN KLC

CHECKED KFS

DATE 9/20/13

Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole

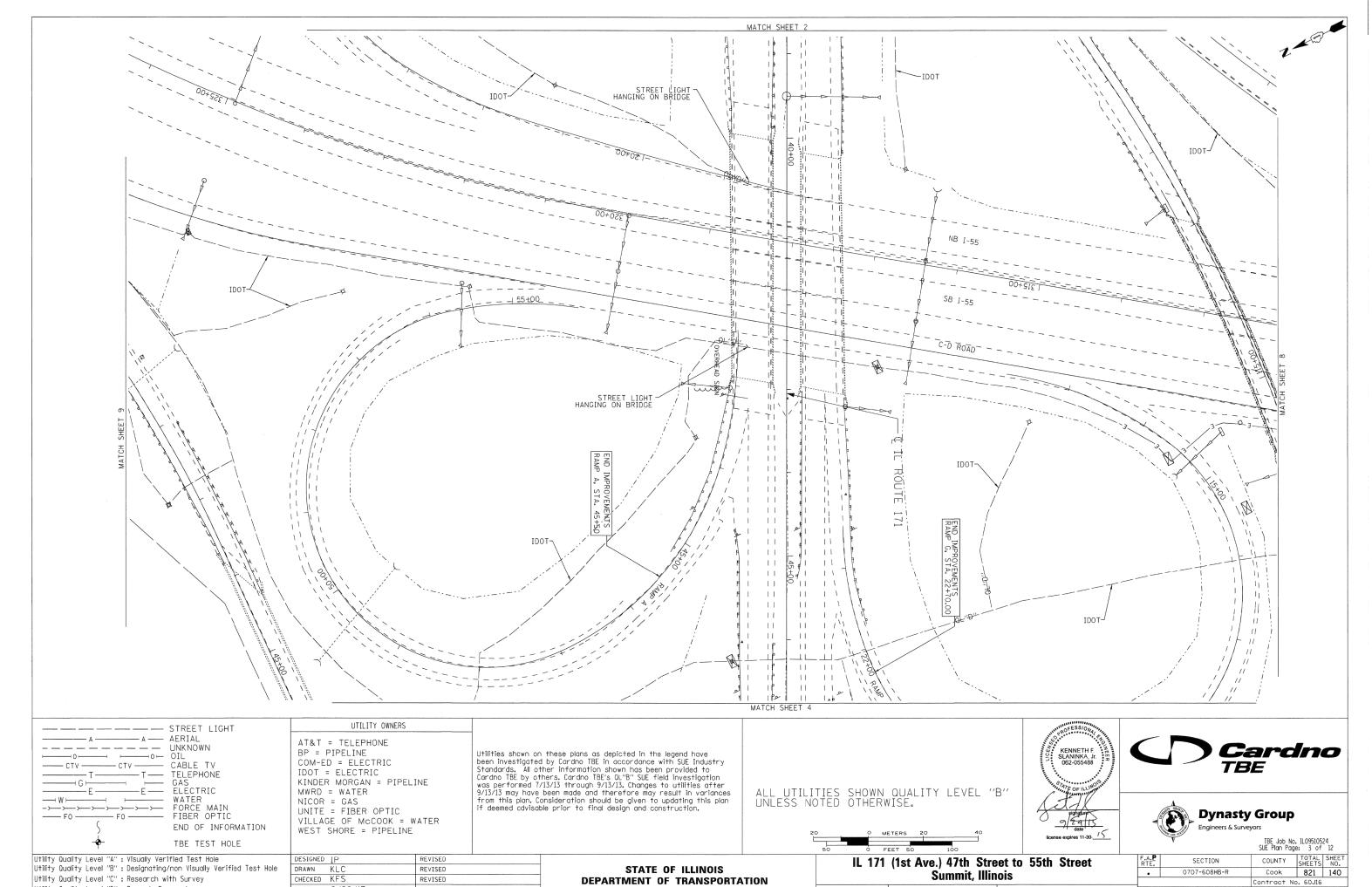
Utility Quality Level "C": Research with Survey

Utility Quality Level "D": Records Research

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  IL 171 (1st Ave.) 47th Street to 55th Street Summit, Illinois



COUNTY SECTION Cook 821 139 0707-608HB-R Contract No. 60J16 FED. ROAD DIST. NO. \_ ILLINOIS IDOT Project No.



Utility Quality Level "C" : Research with Survey Utility Quality Level "D" : Records Research

CHECKED KFS

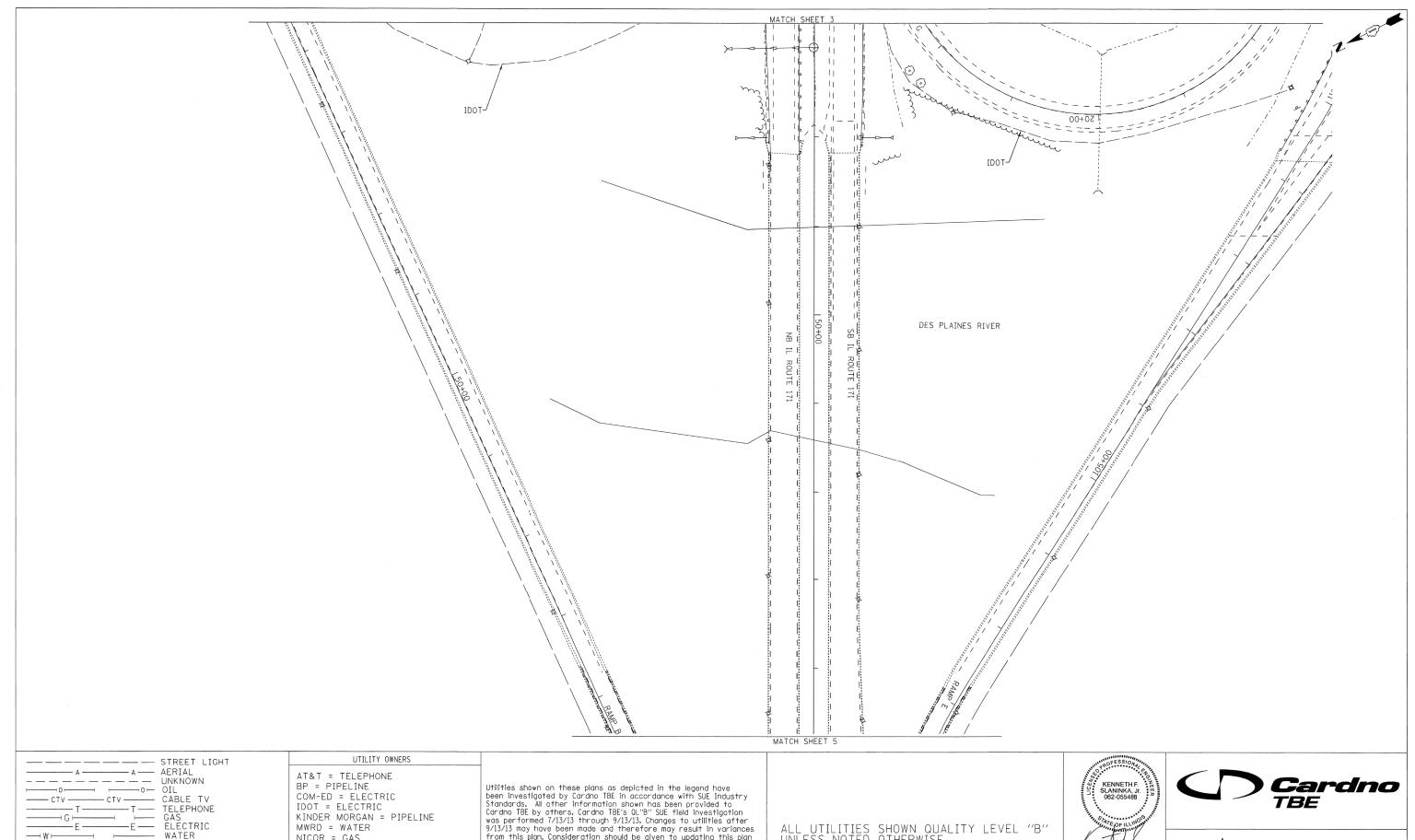
DATE 9/20/13

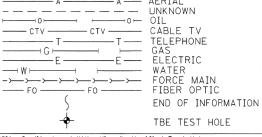
REVISED

REVISED

Cook 821 140
Contract No. 60J16 FED. ROAD DIST. NO. \_ ILLINOIS IDOT Project No.

• 372/373/IL 171 (SB)





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

NICOR = GAS
UNITE = FIBER OPTIC
VILLAGE OF McCOOK = WATER
WEST SHORE = PIPELINE

REVISED

REVISED

REVISED

REVISED

DESIGNED IP

DRAWN KLC

CHECKED KFS

DATE 9/20/13

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 OL"B" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.







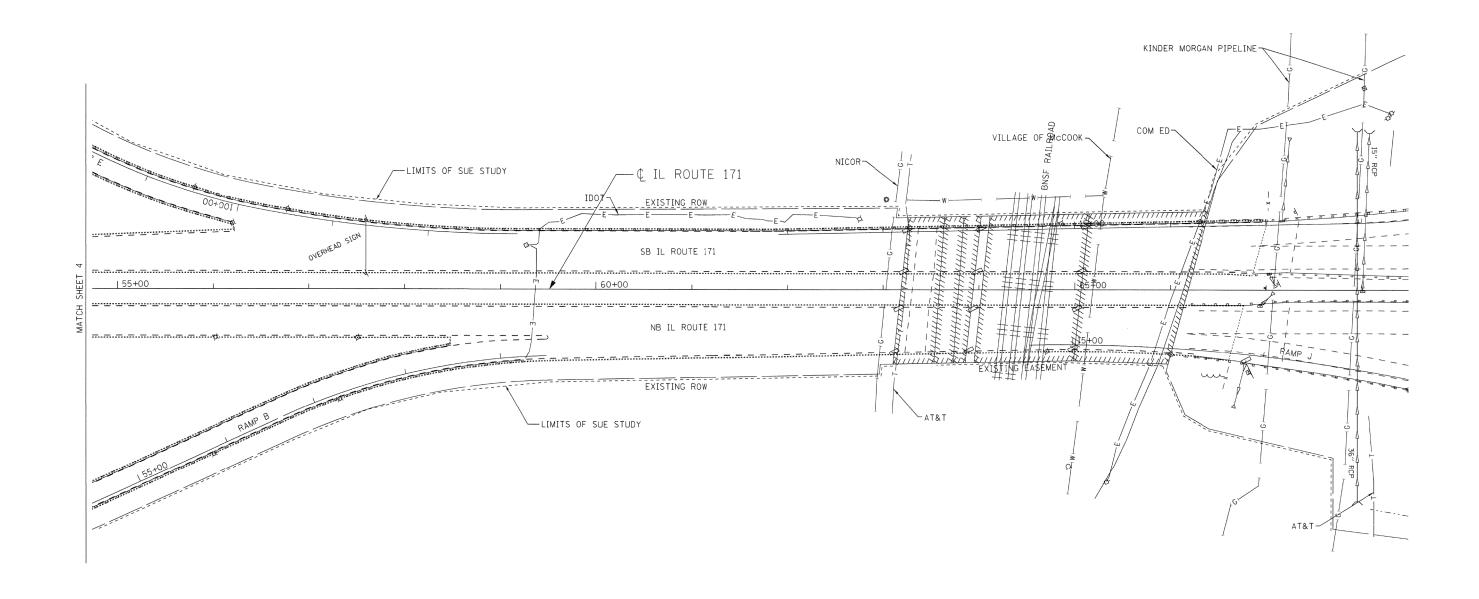
TBE Job No. IL09510524 SUE Plan Page: 4 of 12

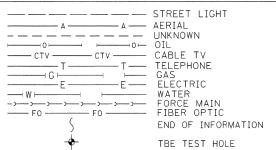
COUNTY TOTAL SHEET NO. SECTION Cook 821 141 0707-608HB-R Contract No. 60J16

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

FED. ROAD DIST. NO. \_ ILLINOIS IDOT Project No.







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

UNITE = FIBER OPTIC
VILLAGE OF McCOOK = WATER
WEST SHORE = PIPELINE

DESIGNED IP
DRAWN KLC REVISED
CHECKED KFS REVISED

REVISED

UTILITY OWNERS

AT&T = TELEPHONE

BP = PIPELINE COM-ED = ELECTRIC

NICOR = GAS

DATE 9/20/13

IDOT = ELECTRIC
KINDER MORGAN = PIPELINE
MWRD = 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 OL'78" SUE field investigation was performed 7/13/13 through 9/13/13. (Changes to utilities after 9/13/13 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.

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

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



Summit, Illinois



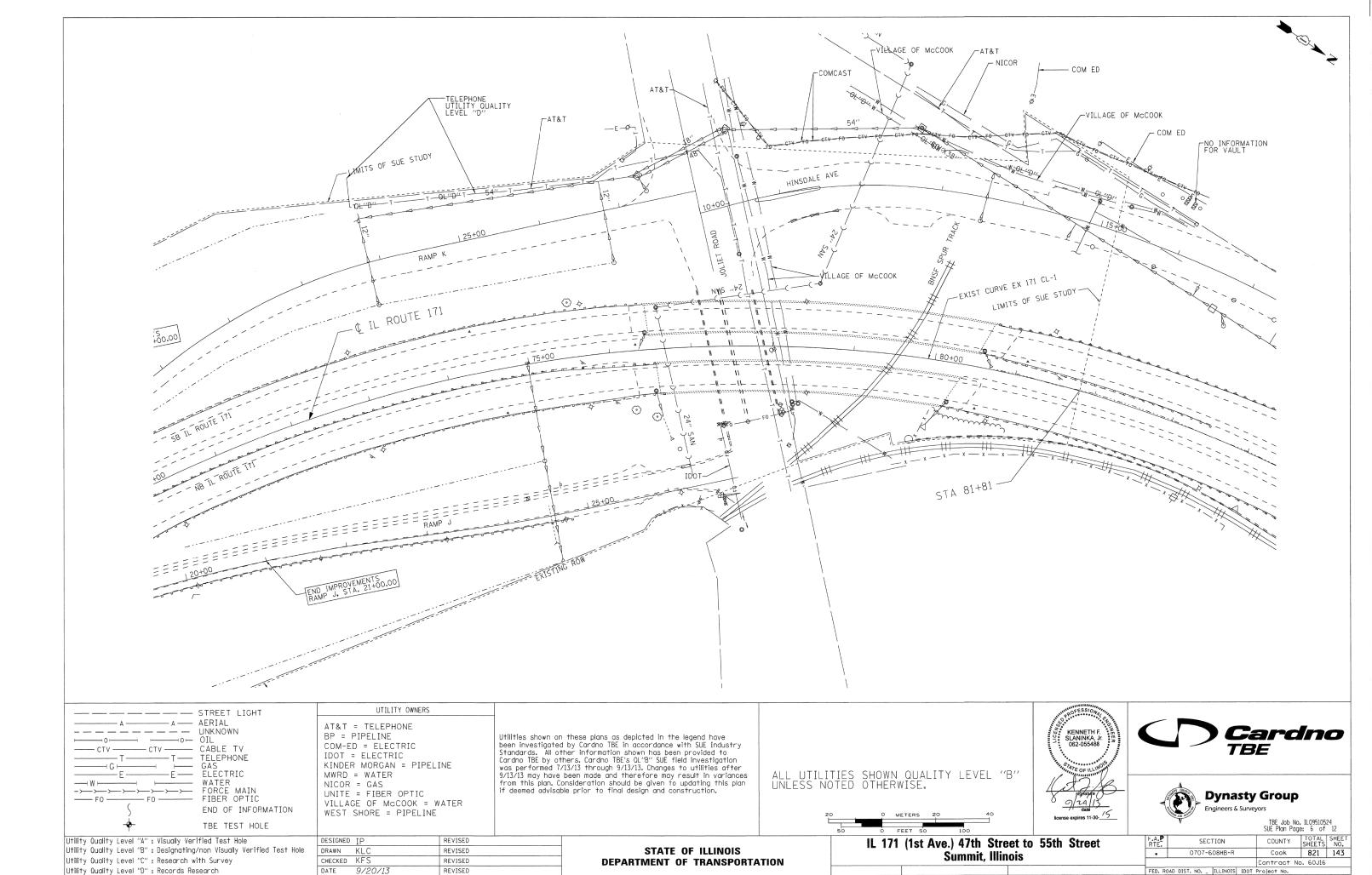




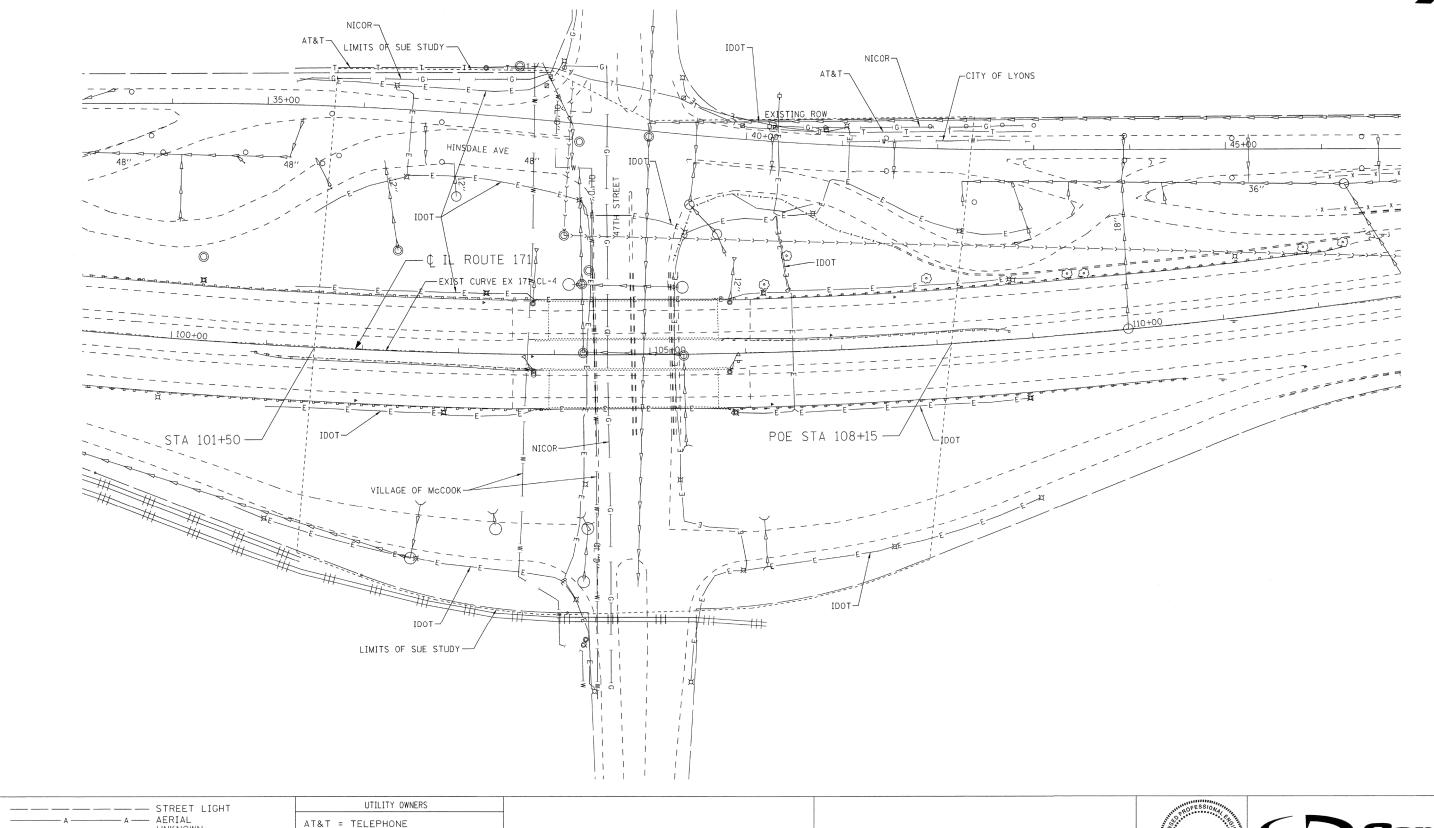
TBE Job No. IL09510524 SUE Plan Page: 5 of 12

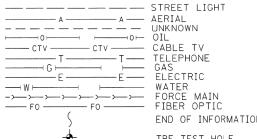
F.A. <b>P</b> RTE.	SECT	TION	COUNTY	TOTAL	SHEET NO.			
•	0707-6	O8HB-R	Cook	821	142			
Contract No. 60J16								
FED RO	FED ROAD DIST NO ILLINOIS IDOT Project No							

• 372/373/IL 171 (SB)



• 372/373/IL 171 (SB)





END OF INFORMATION TBE TEST HOLE

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

BP = PIPELINE
COM-ED = ELECTRIC
IDOT = ELECTRIC KINDER MORGAN = PIPELINE MWRD = WATER

NICOR = GAS UNITE = FIBER OPTIC
VILLAGE OF MCCOOK = WATER
WEST SHORE = PIPELINE

REVISED

REVISED

REVISED

REVISED

DESIGNED IP

DRAWN KLC

CHECKED KFS

9/20/13

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 OL'8" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

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



Summit, Illinois

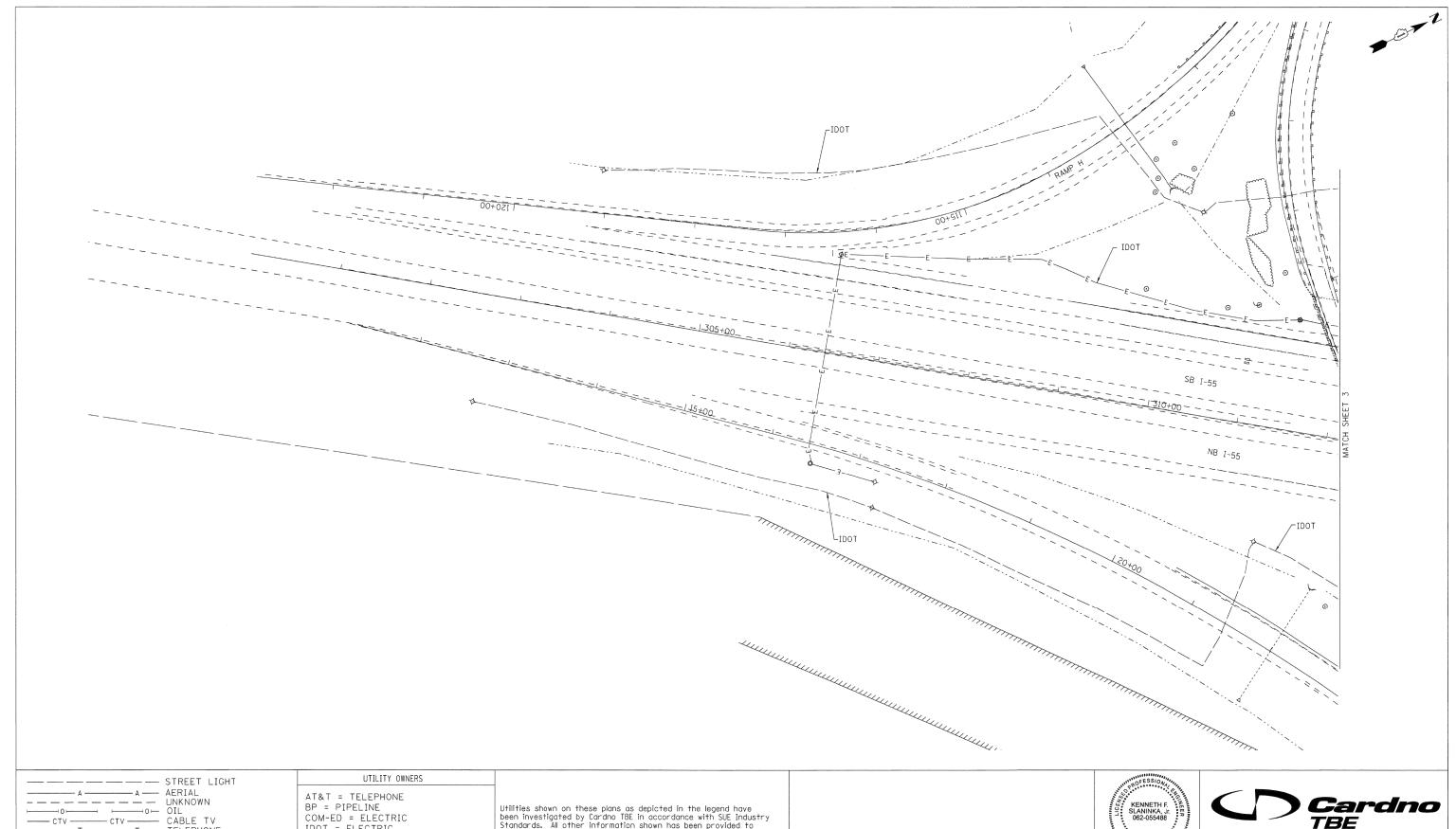


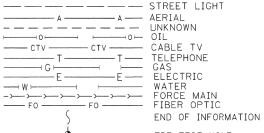




TBE Job No. IL09510524 SUE Plan Page: 7 of 12

RTE.	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
•	0707-608HB-R		Cook	821	144
			Contract No	. 60J16	
ED. R	OAD DIST. NO I	ILLINOIS IDOT	Project No.		





TBE TEST HOLE

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

COM-ED = ELECTRIC
IDOT = ELECTRIC
KINDER MORGAN = PIPELINE
MWRD = WATER
NICOR = GAS
UNITE = FIBER OPTIC
VILLAGE OF MCCOOK = WATER
WEST SHORE = PIPELINE

REVISED

REVISED

REVISED

REVISED

DESIGNED IP

DRAWN KLO

CHECKED KFS

DATE 9/20/13

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 OL'B'' SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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



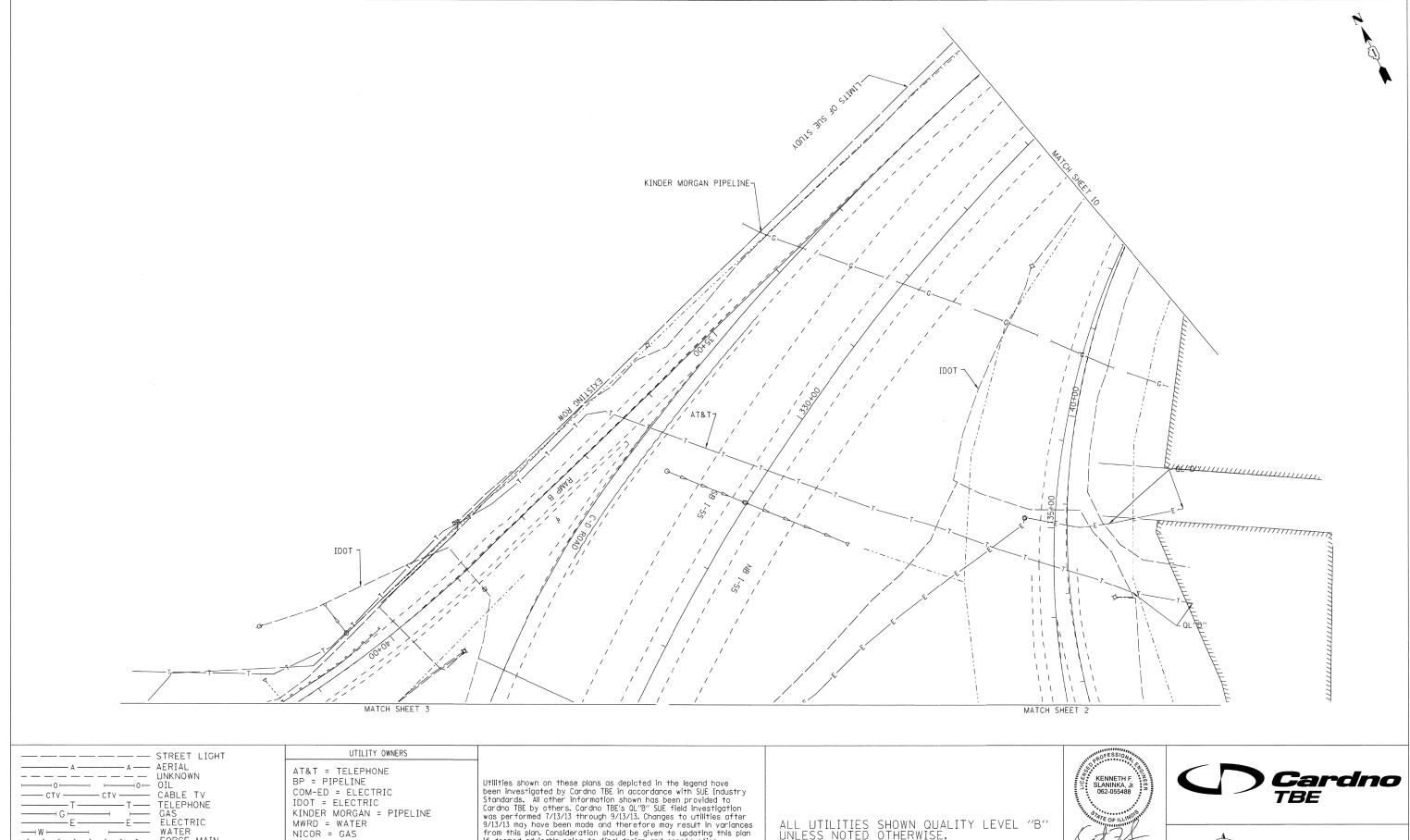


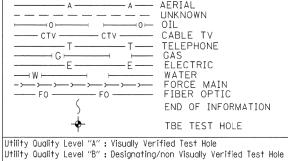




TBE Job No. IL09510524 SUE Plan Page: 8 of 12

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	0707-608HB-R	Cook	821	145
		Contract No	. 60J16	
550 D		D 4		





Utility Quality Level "C": Research with Survey

Utility Quality Level "D": Records Research

VILLAGE OF McCOOK = WATER WEST SHORE = PIPELINE DESIGNED IP

UNITE = FIBER OPTIC

DRAWN KLC

CHECKED KFS

DATE 9/20/13

REVISED

REVISED

REVISED

REVISED

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 OL'B" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.



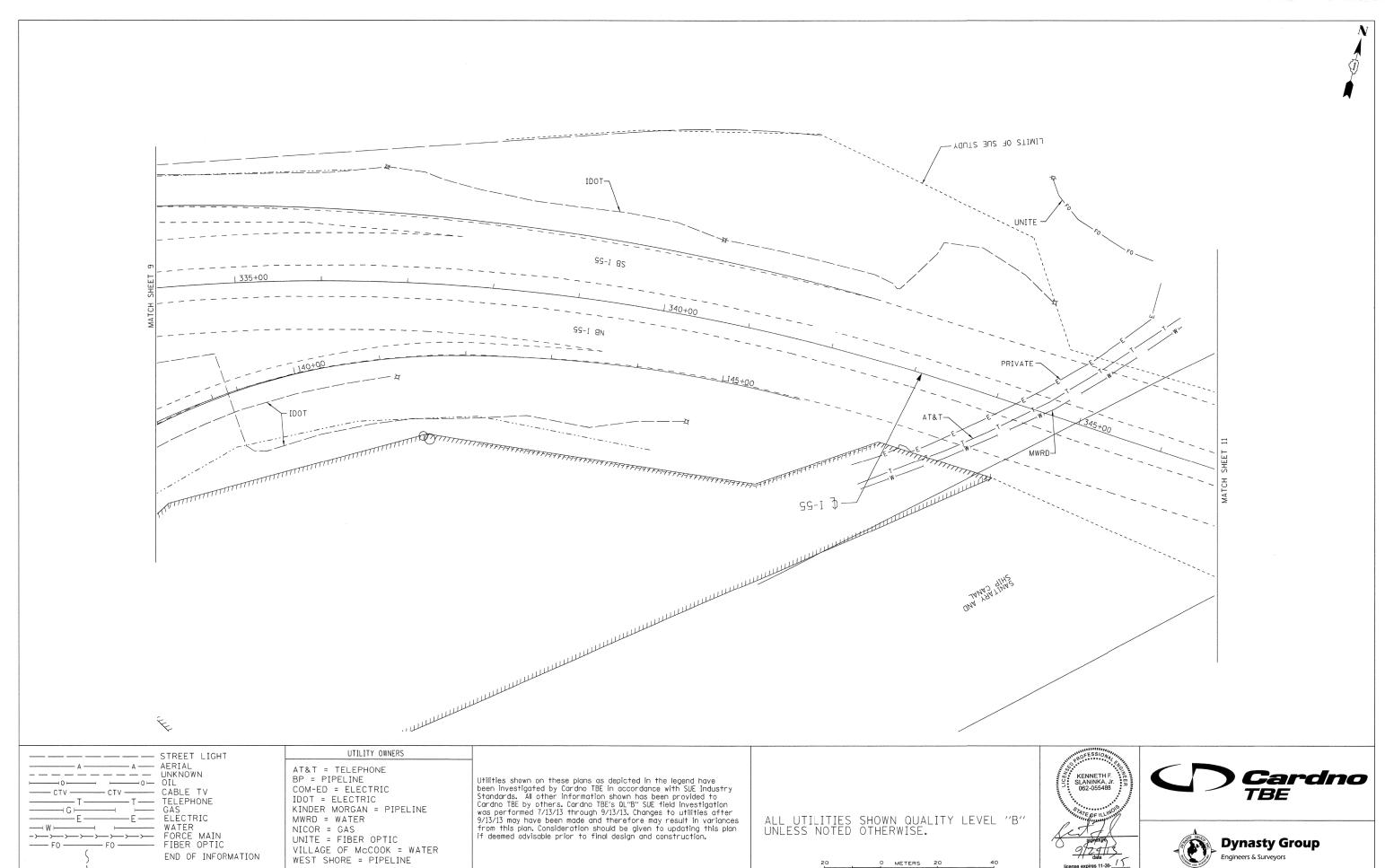




TBE Job No. IL09510524 SUE Plan Page: 9 of 12

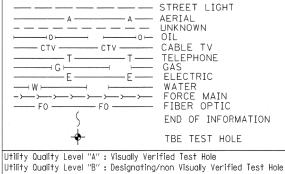
.A. <b>P</b> RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	0707-608HB-R	Cook	821	146			
Contract No. 60J16							
ED. RO	AD DIST, NO.   ILLINOIS IDOT	Project No.					

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  IL 171 (1st Ave.) 47th Street to 55th Street Summit, Illinois



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 



Utility Quality Level "D": Records Research

Utility Quality Level "C": Research with Survey

DESIGNED IP

CHECKED KFS

DATE 9/20/13

REVISED

REVISED

REVISED

REVISED





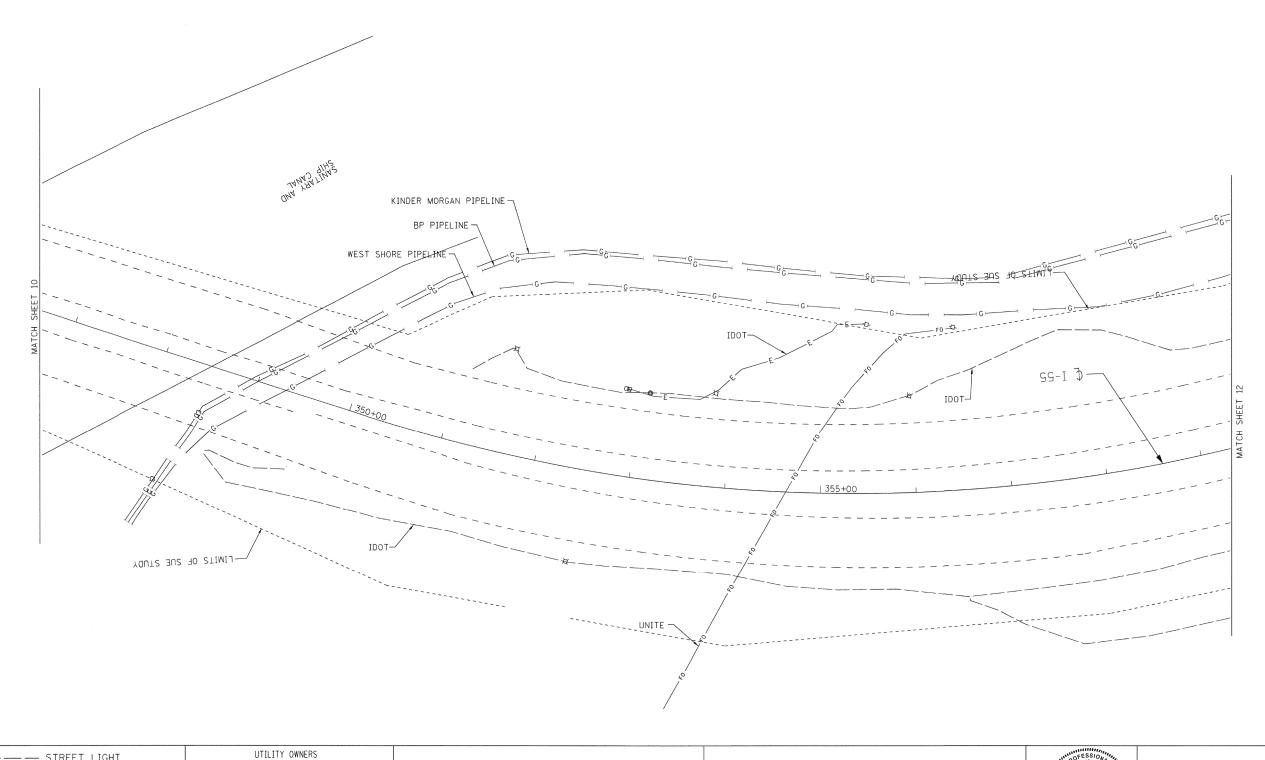
TBE Job No. IL09510524 SUE Plan Page: 10 of 12

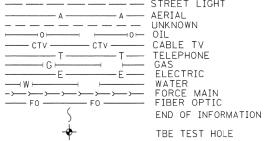
COUNTY TOTAL SHEET NO.

COOK 821 147 SECTION 0707-608HB-R Contract No. 60J16 FED. ROAD DIST. NO. \_ ILLINOIS IDOT Project No.

• 372/373/IL 171 (SB)







Utility Quality Level "D": Records Research

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

UNITE = FIBER OPTIC
VILLAGE OF McCOOK = WATER
WEST SHORE = PIPELINE DESIGNED IP REVISED DRAWN KLC REVISED CHECKED KFS REVISED

REVISED

AT&T = TELEPHONE

BP = PIPELINE COM-ED = ELECTRIC

KINDER MORGAN = PIPELINE

IDOT = ELECTRIC

MWRD = WATER

NICOR = GAS

DATE 9/20/13

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 0L'ff" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

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





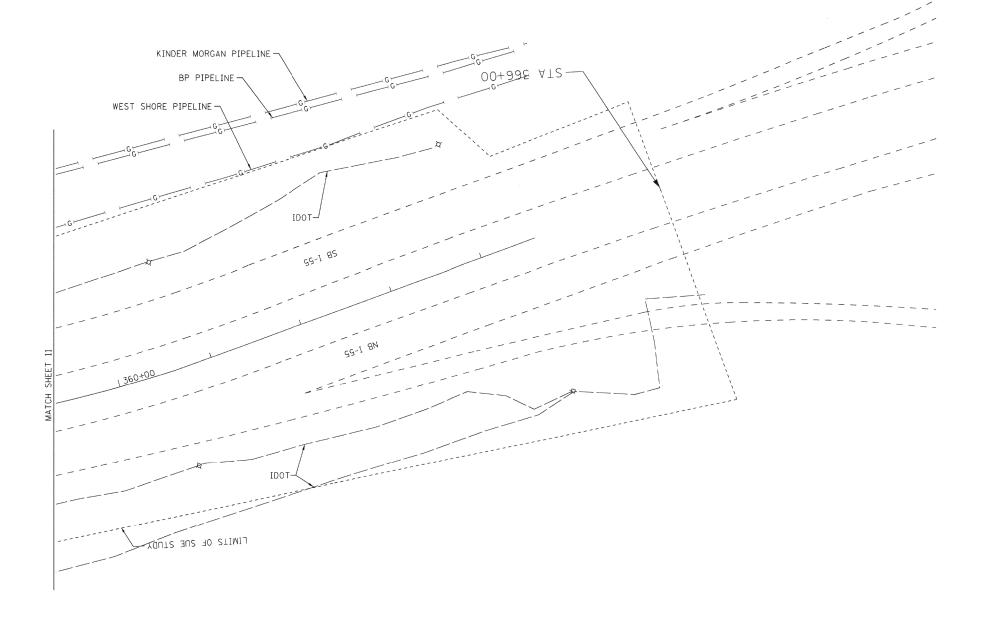


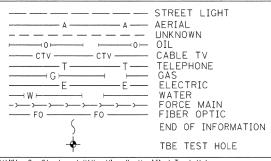


TBE Job No. IL09510524 SUE Plan Page: 11 of 12

	F.A. <b>P</b> RTE.	SECT	cou	NTY	TOTAL	SHEET NO.			
		0707-608HB-R			Co	ok	821	148	
_			Contract No. 60J16						
	FED. R	DAD DIST. NO	ILLINOIS	IDOT	Project	No.			







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

UTILITY OWNERS

AT&T = TELEPHONE

BP = PIPELINE
COM-ED = ELECTRIC
IDOT = ELECTRIC
KINDER MORGAN = PIPELINE
MWRD = WATER

DESIGNED IP

DRAWN KLC

CHECKED KFS

DATE 9/20/13

MWRD = WATER

MICOR = GAS

UNITE = FIBER OPTIC

VILLAGE OF MCCOOK = WATER

WEST SHORE = PIPELINE

REVISED

REVISED

REVISED

REVISED

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 OL'B" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 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.



KENNETH F. STATE OF ILLINOS

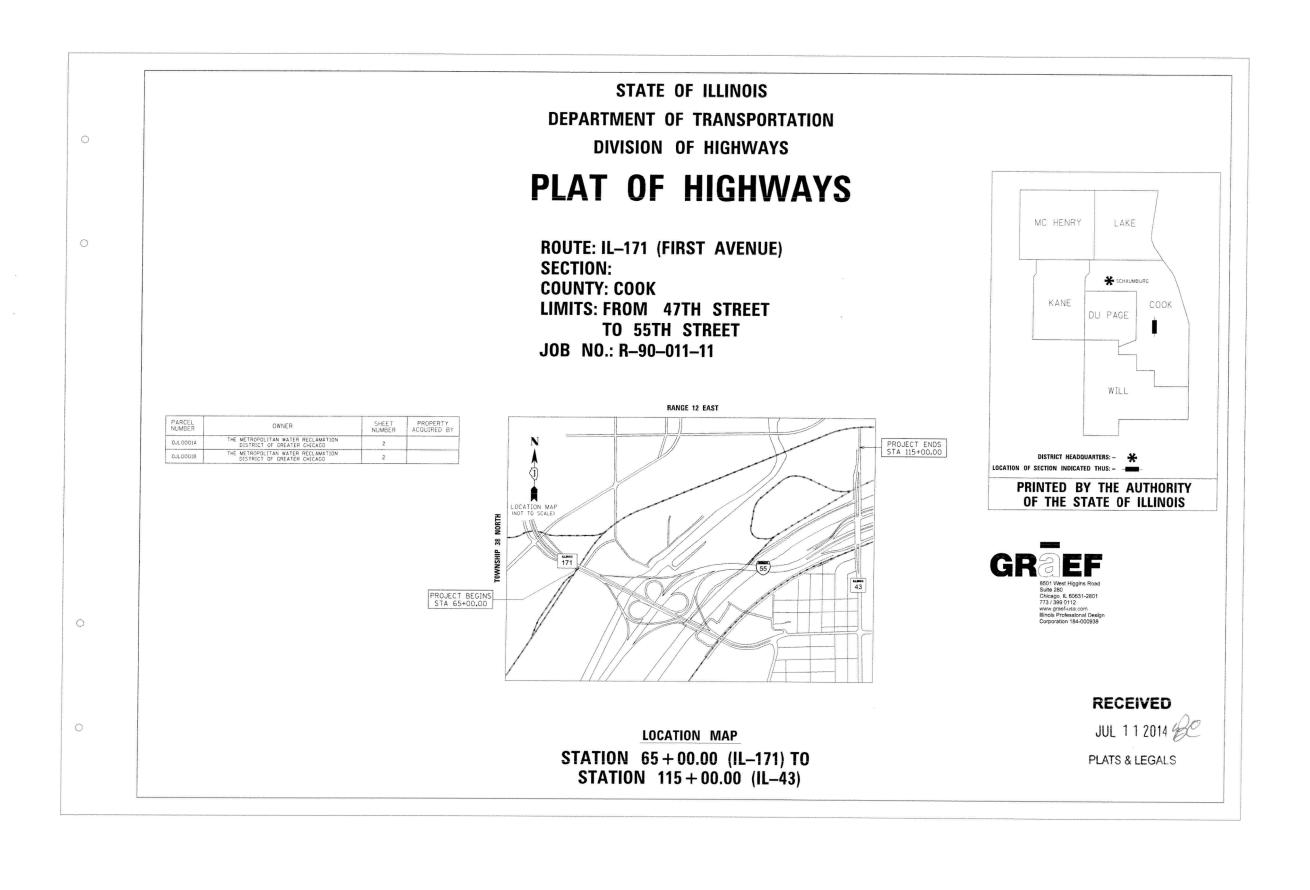




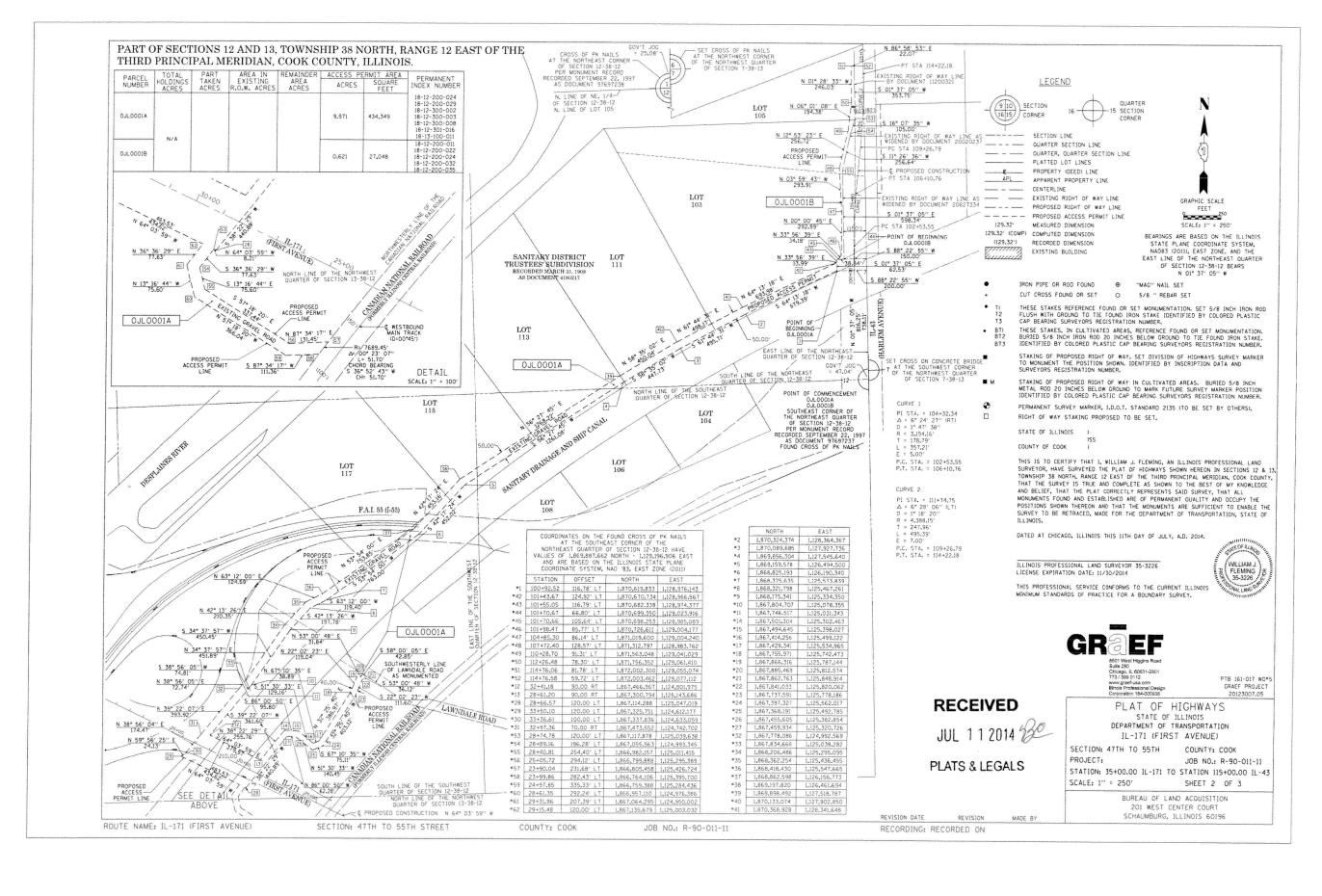
TBE Job No. IL09510524 SUE Plan Page: 12 of 12

.A. <b>P</b> RTE.		SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.		
•	0	0707-608HB-R			Cook	674	149		
				Contract No. 60J16					
	DAD DICT	NO	TI I TNIOTC	TOOT	Design Ma				

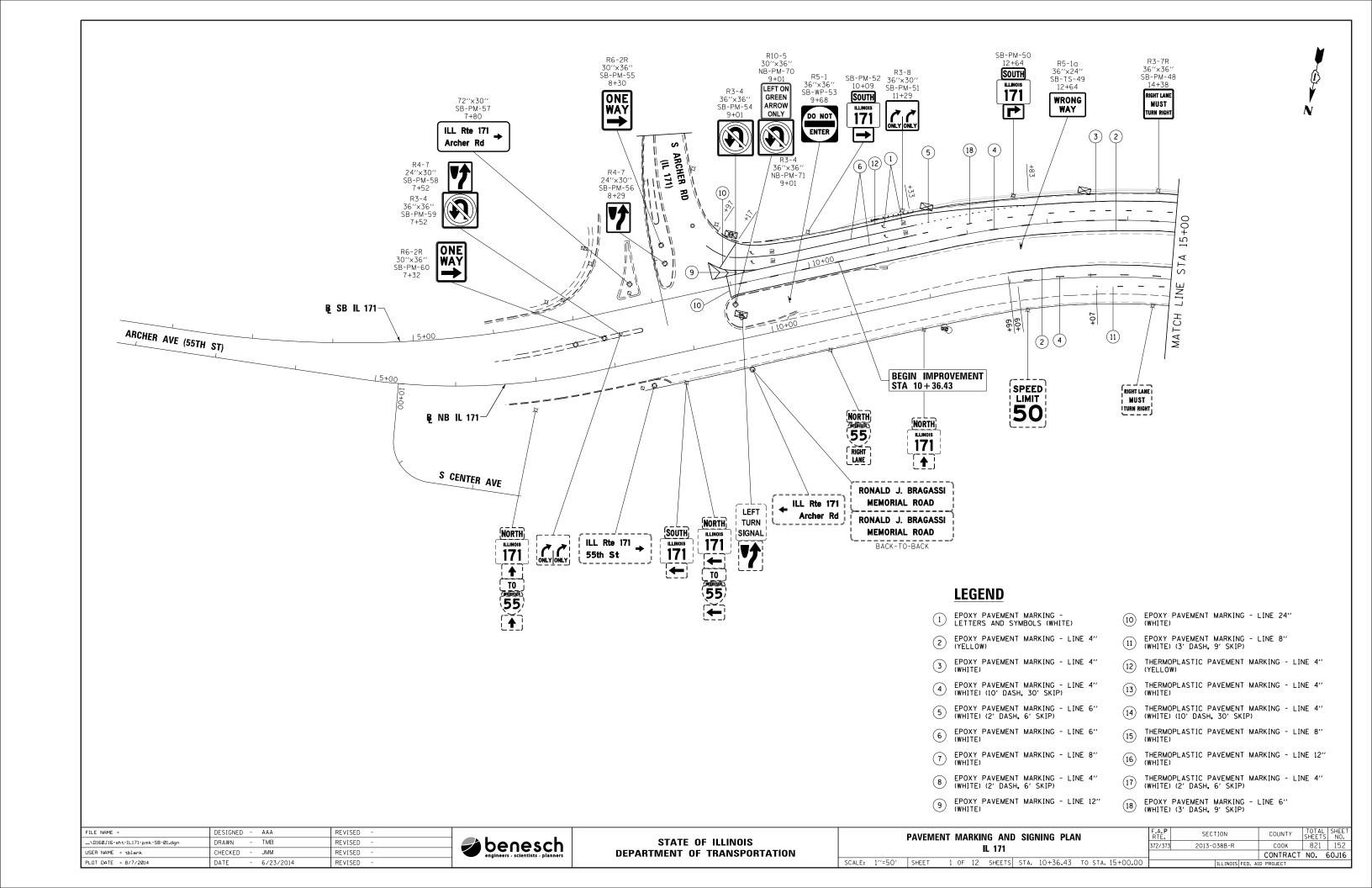
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

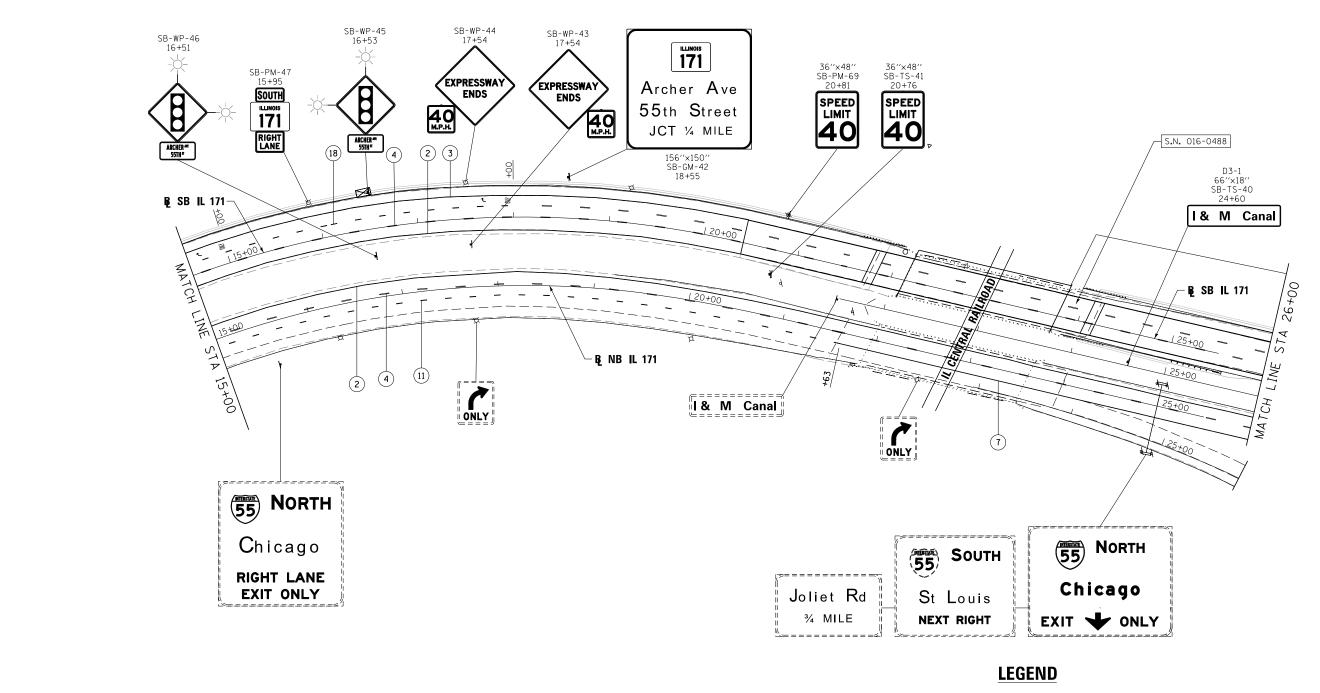


FILE NAME =	DESIGNED -	REVISED -					ATION MAP		RTF.	SECTION	COUNTY	SHEETS N	10.
\ROW\D160J16-sht-plat-01.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		EGOTHION WAY					2013-038B-R	COOK	821 15	50
USER NAME = jmajewskı	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						0.2.0.0	2010 0000	CONTRACT	NO. 60J	
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



FILE NAME =	DESIGNED -	REVISED -				DIAT	OF HIGH	HW/WAG		F.A.P	SECTION	COUNTY	TOTAL	ŝ
\ROW\D160J16-sht-plat-02.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			FLAT	oi illai	IVVAIS		372/373	2013-038B-R	соок	821	15
USER NAME = jmajewski	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO.	0J:
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -		SCALE:	SHEET	OF	SHEET	S STA.	TO STA.		ILLINOIS FED. A			_





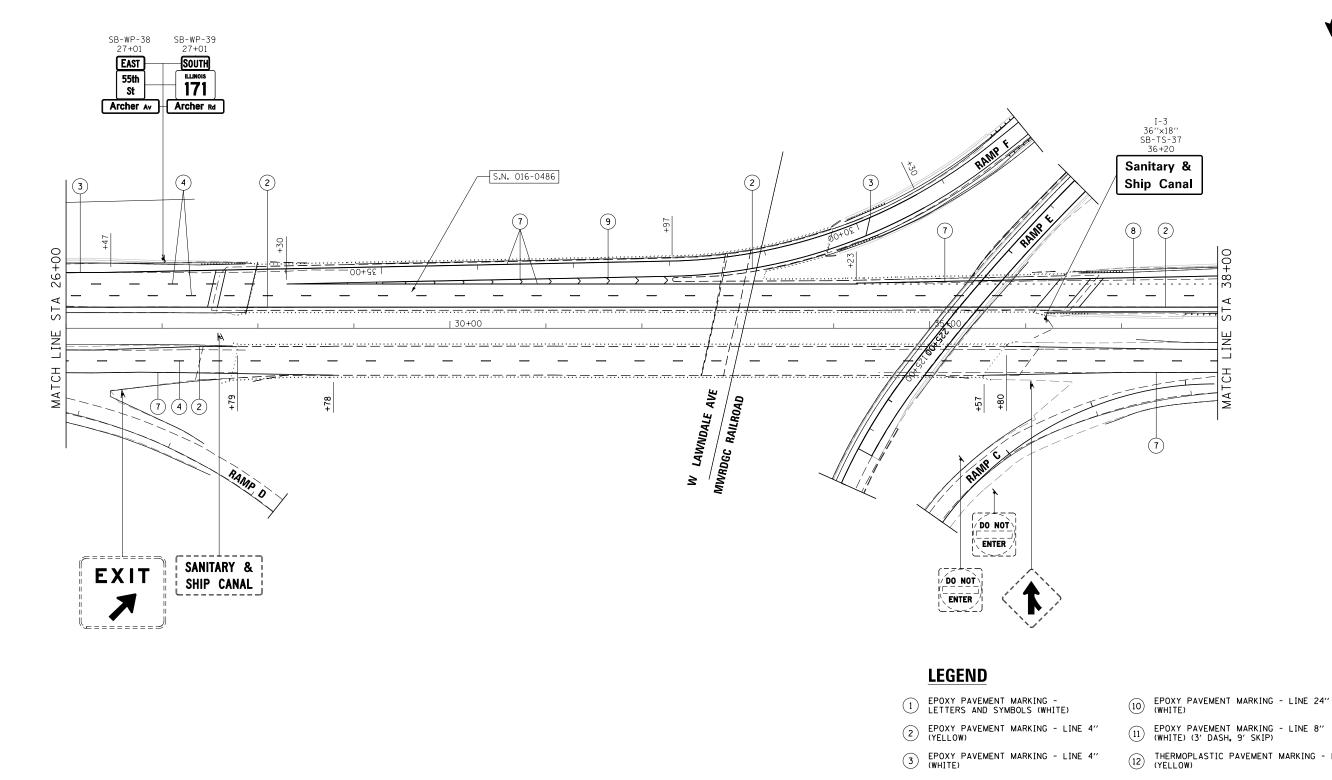
- 1 EPOXY PAVEMENT MARKING LETTERS AND SYMBOLS (WHITE)
- 2 EPOXY PAVEMENT MARKING LINE 4" (YELLOW)
- 3 EPOXY PAVEMENT MARKING LINE 4"
- 4 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (10' DASH, 30' SKIP)
- 5 EPOXY PAVEMENT MARKING LINE 6" (WHITE) (2' DASH, 6' SKIP)
- 6 EPOXY PAVEMENT MARKING LINE 6"
- 7 EPOXY PAVEMENT MARKING LINE 8" (WHITE)
- 8 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (2' DASH, 6' SKIP)
- 9 EPOXY PAVEMENT MARKING LINE 12"
  (WHITE)

- (10) EPOXY PAVEMENT MARKING LINE 24" (WHITE)
- (1) EPOXY PAVEMENT MARKING LINE 8" (WHITE) (3' DASH, 9' SKIP)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4"
  (WHITE) (10' DASH, 30' SKIP)
- THERMOPLASTIC PAVEMENT MARKING LINE 8"
  (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) (2" DASH, 6" SKIP)
- (WHITE) (3' DASH, 9' SKIP)

FILE NAME =	DESIGNED - AAA	REVISED -	_
\D160J16-sht-IL171-pmk-SB-02.dgn	DRAWN - TMB	REVISED -	benesch
JSER NAME = tblank	CHECKED - JMM	REVISED -	engineers - scientists - planners
PLOT DATE = 8/7/2014	DATE - 6/23/2014	PEVISED -	,

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

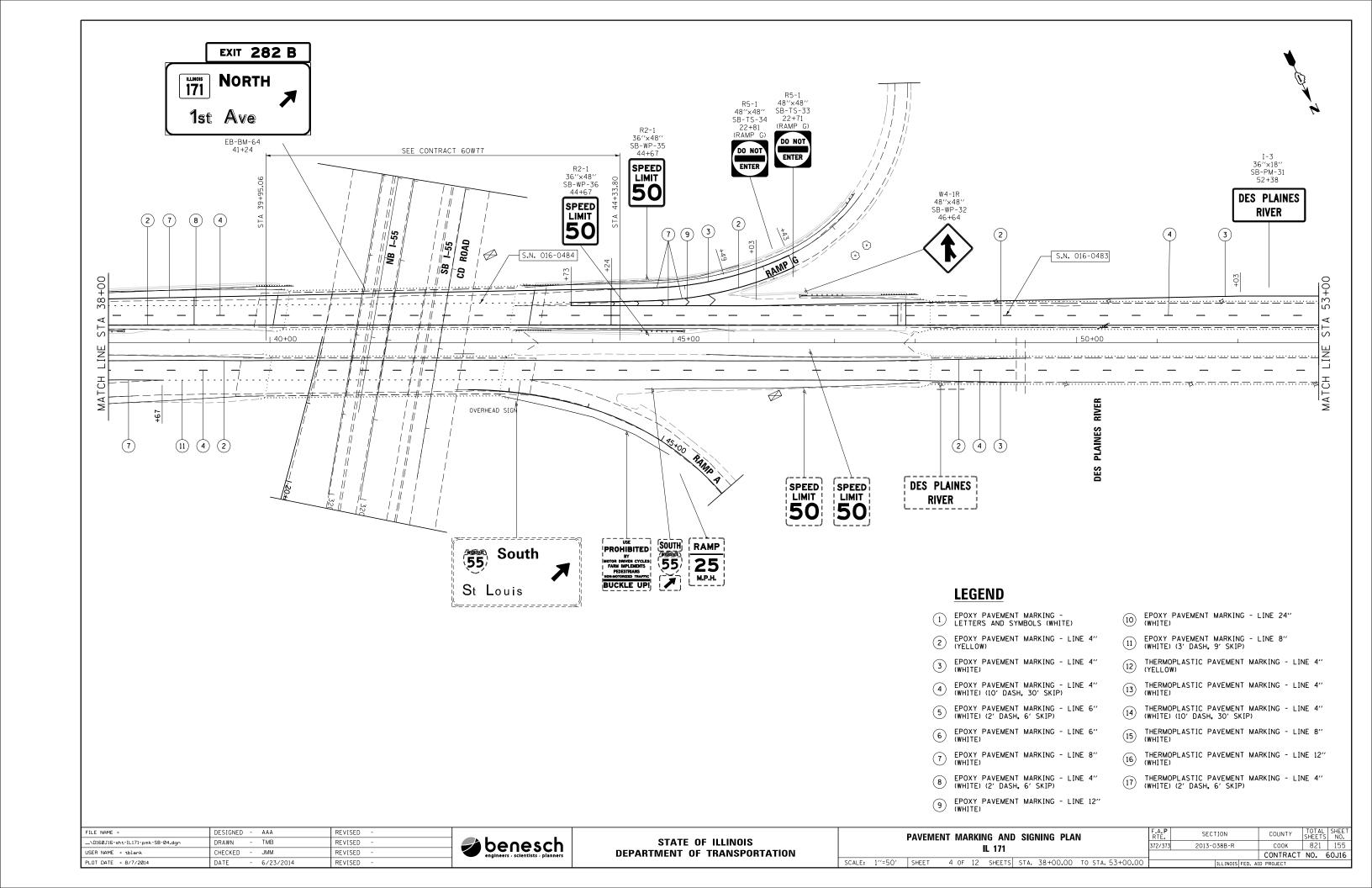


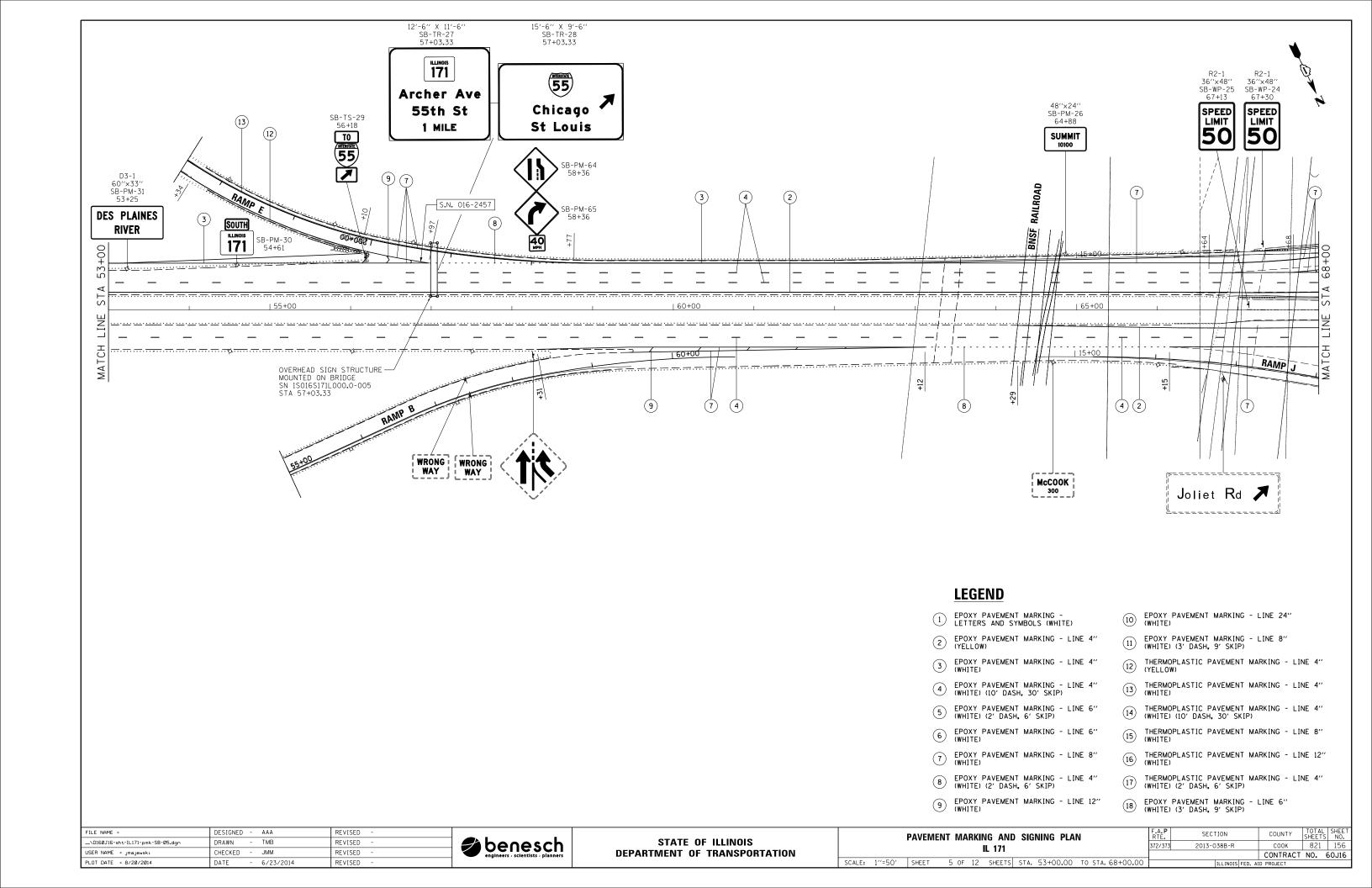


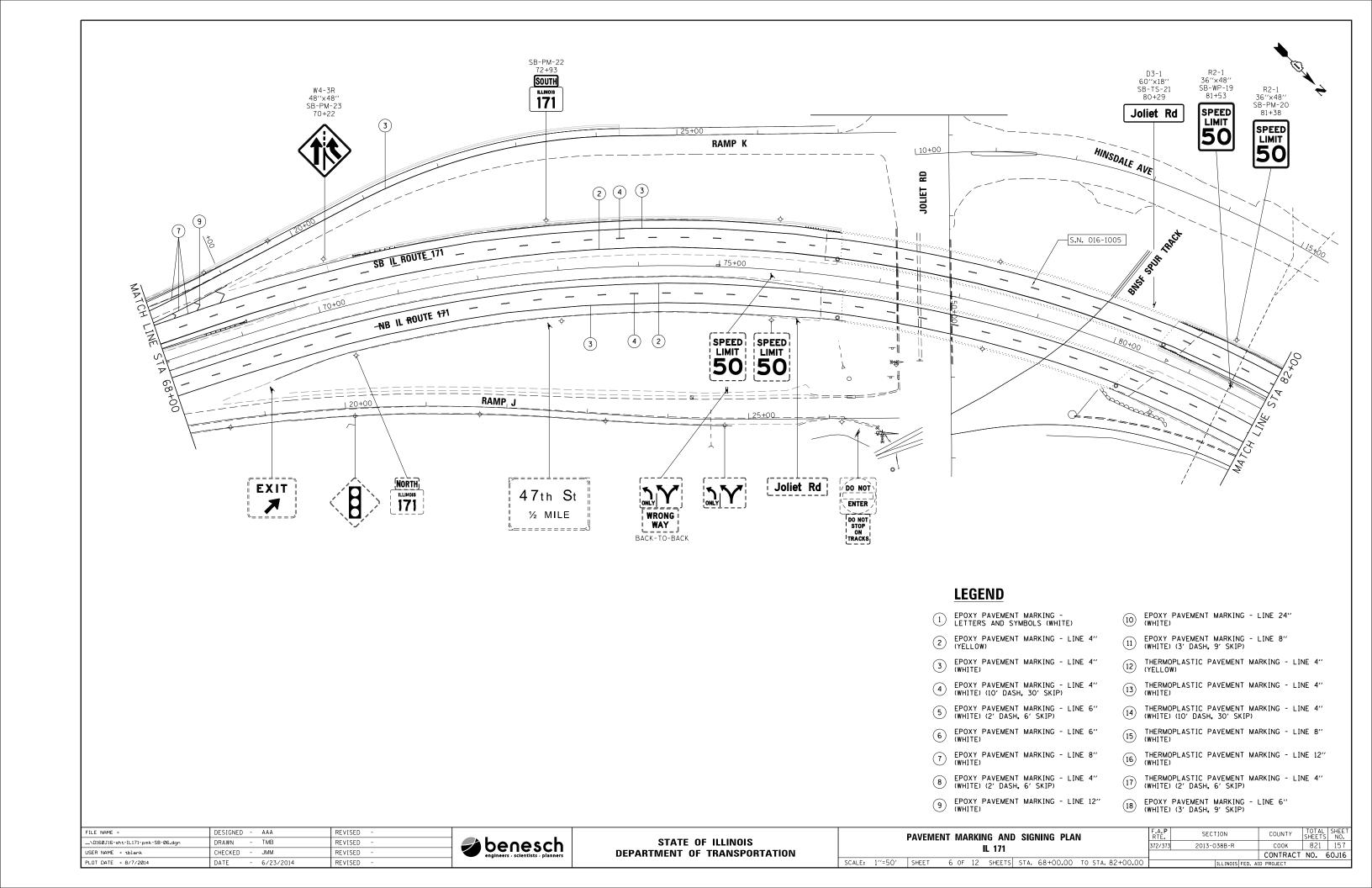
- 4 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (10' DASH, 30' SKIP)
- 5 EPOXY PAVEMENT MARKING LINE 6" (WHITE) (2' DASH, 6' SKIP)
- 6 EPOXY PAVEMENT MARKING LINE 6"
- 7 EPOXY PAVEMENT MARKING LINE 8" (WHITE)
- 8 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (2' DASH, 6' SKIP)
- 9 EPOXY PAVEMENT MARKING LINE 12"

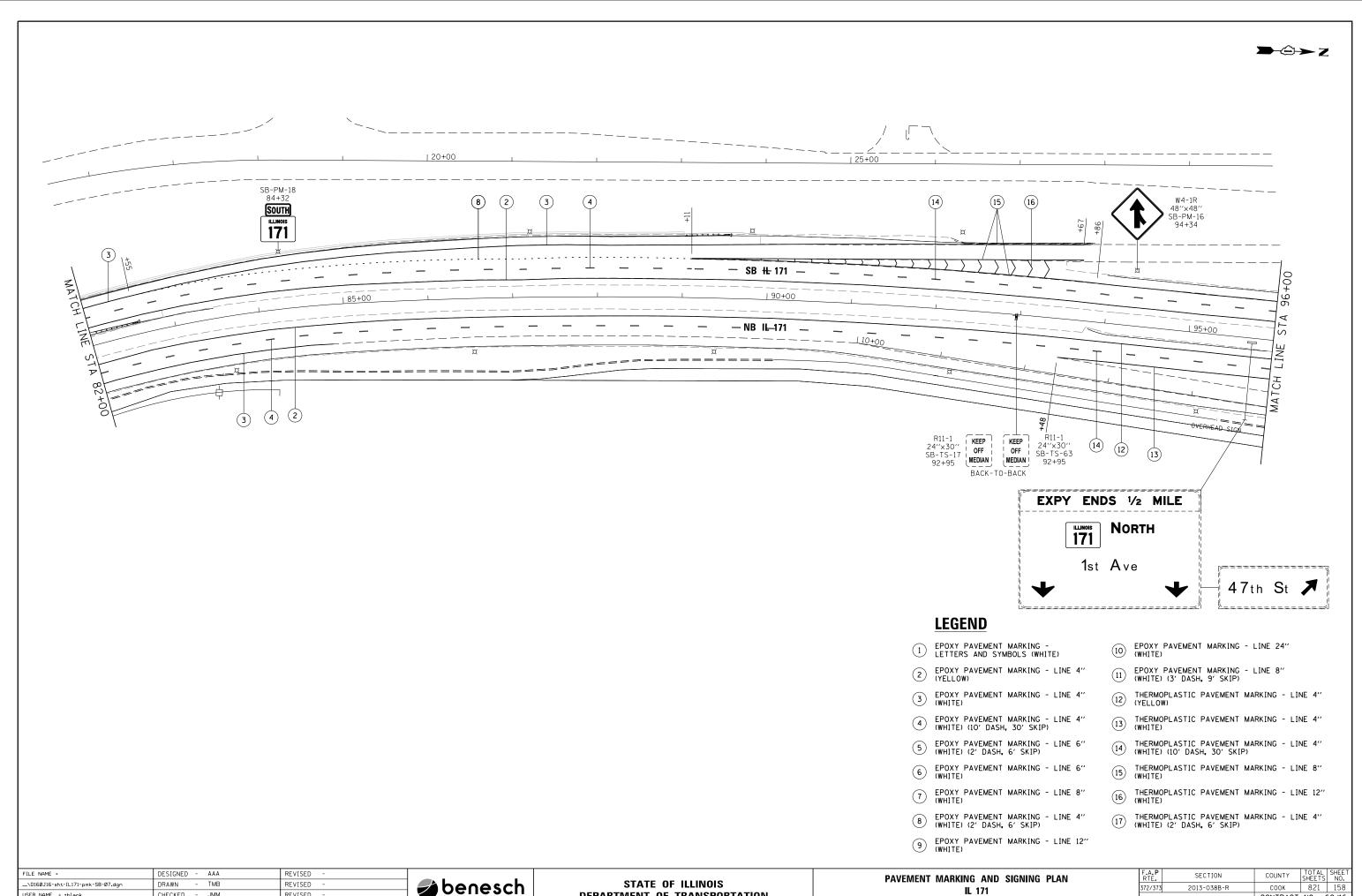
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) (10' DASH, 30' SKIP)
- THERMOPLASTIC PAVEMENT MARKING LINE 8" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) (2' DASH, 6' SKIP)
- EPOXY PAVEMENT MARKING LINE 6"
  (WHITE) (3' DASH, 9' SKIP)

FILE NAME =	DESIGNED - AAA	REVISED -		07477 05 111111010	PAVEMENT MARKING AND SIGNING PLAN	RTE.	SECTION	COUNTY SHEETS NO
\D160J16-sht-IL171-pmk-SB-03.dgn	DRAWN - TMB	REVISED -	🗕 🚅 benesch	STATE OF ILLINOIS	IL 171	372/373	2013-038B-R	соок 821 15
USER NAME = tblank	CHECKED - JMM	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60J1
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50" SHEET 3 OF 12 SHEETS STA. 26+00.00 TO STA. 38+00.0	00	ILLINOIS FED. A	ID PROJECT



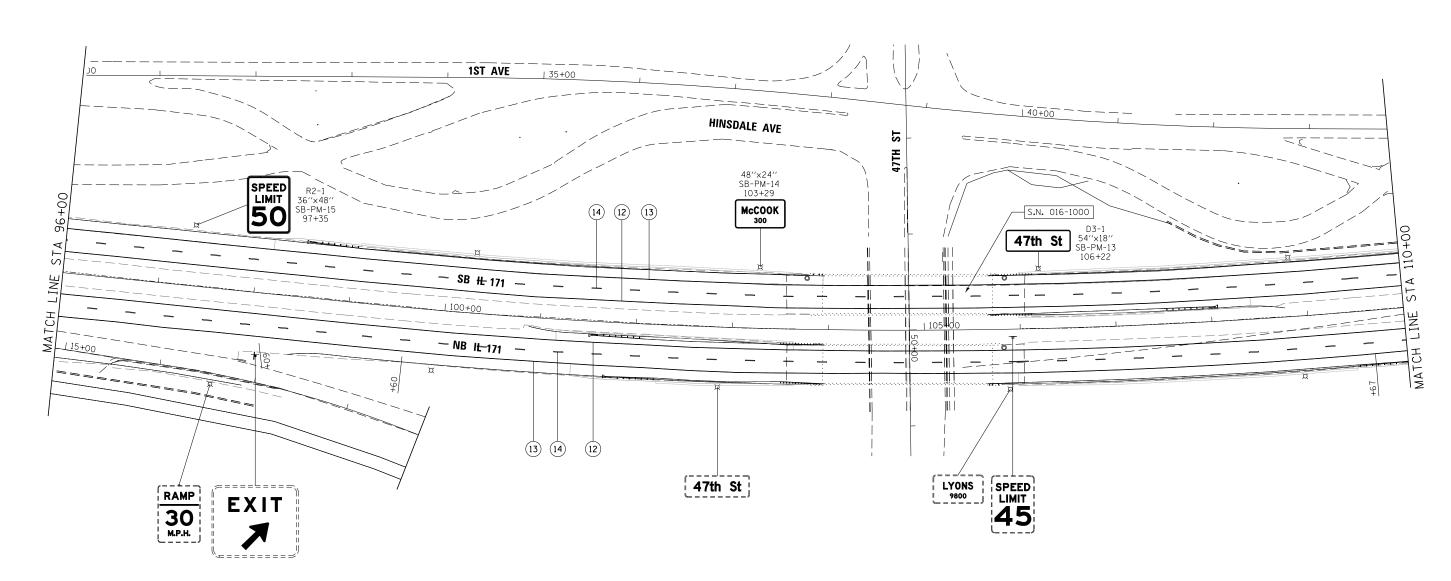






USER NAME = tblank	FILE NAME =	DESIGNED - AAA	REVISED -		OTATE OF HILINOIS	PAVEME	ENT MARKING AND SIGNING PLAN	RTE.	SECTION	COUNTY	SHEETS	SHEE NO.
USER NAME = tolank CHECKED - JMM REVISED - CONTRACT NO. (CONTRACT NO. (C	\D160J16-sht-IL171-pmk-SB-07.dgn	DRAWN - TMB		– <b>Fá</b> benesch I	STATE OF ILLINOIS		II 171	372/373		соок	821	158
0.01 DATE - 0.72 7014 DATE - 0.72 7014 DEVISED	USER NAME = tblank	CHECKED - JMM	REVISED -		DEPARTMENT OF TRANSPORTATION		IL 171	· ·		CONTRACT		60J16
STATE OF STA	PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50" SHEET	7 OF 12 SHEETS STA. 82+00.00 TO STA. 96+00		ILLINOIS FED.			



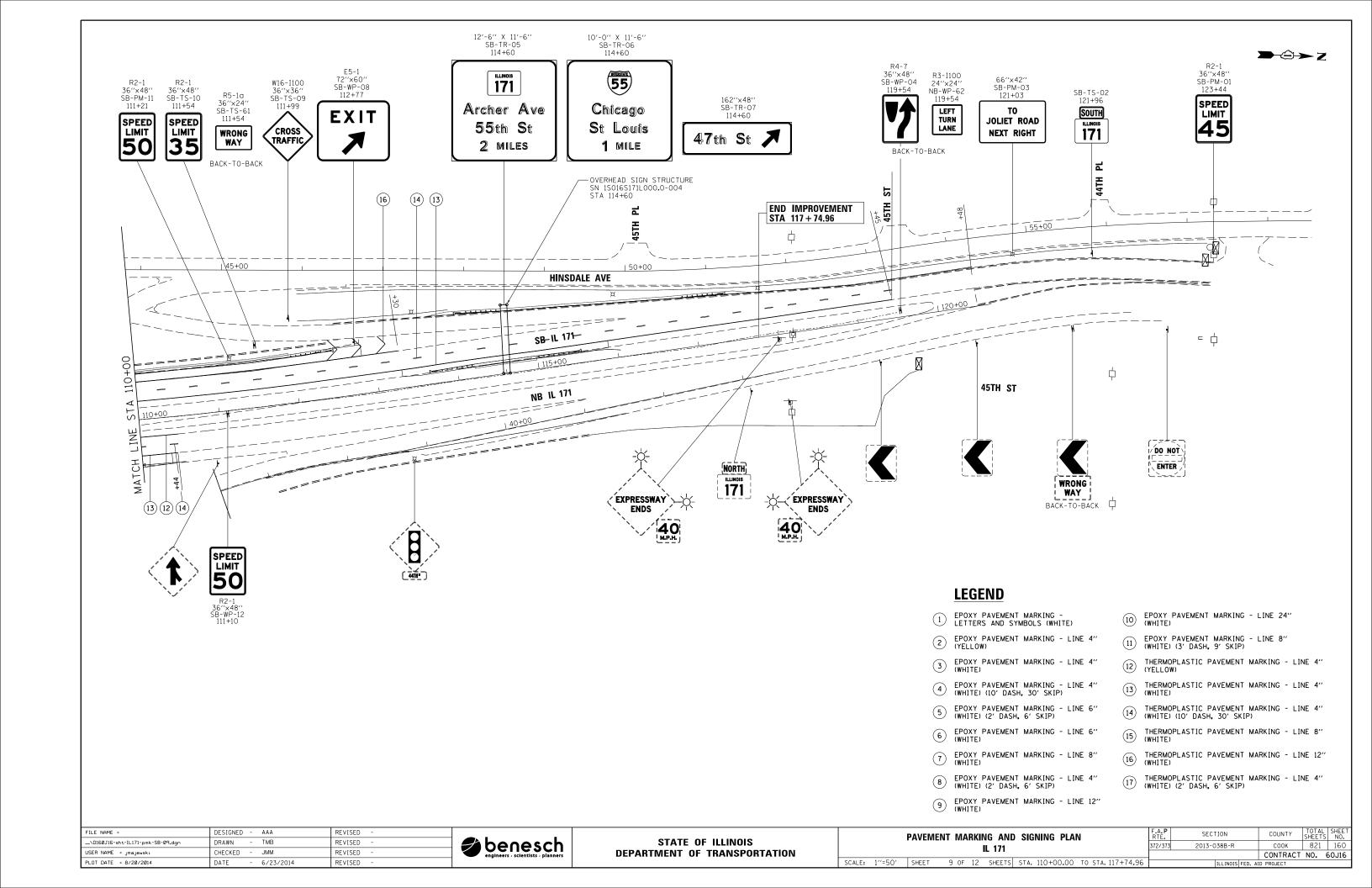


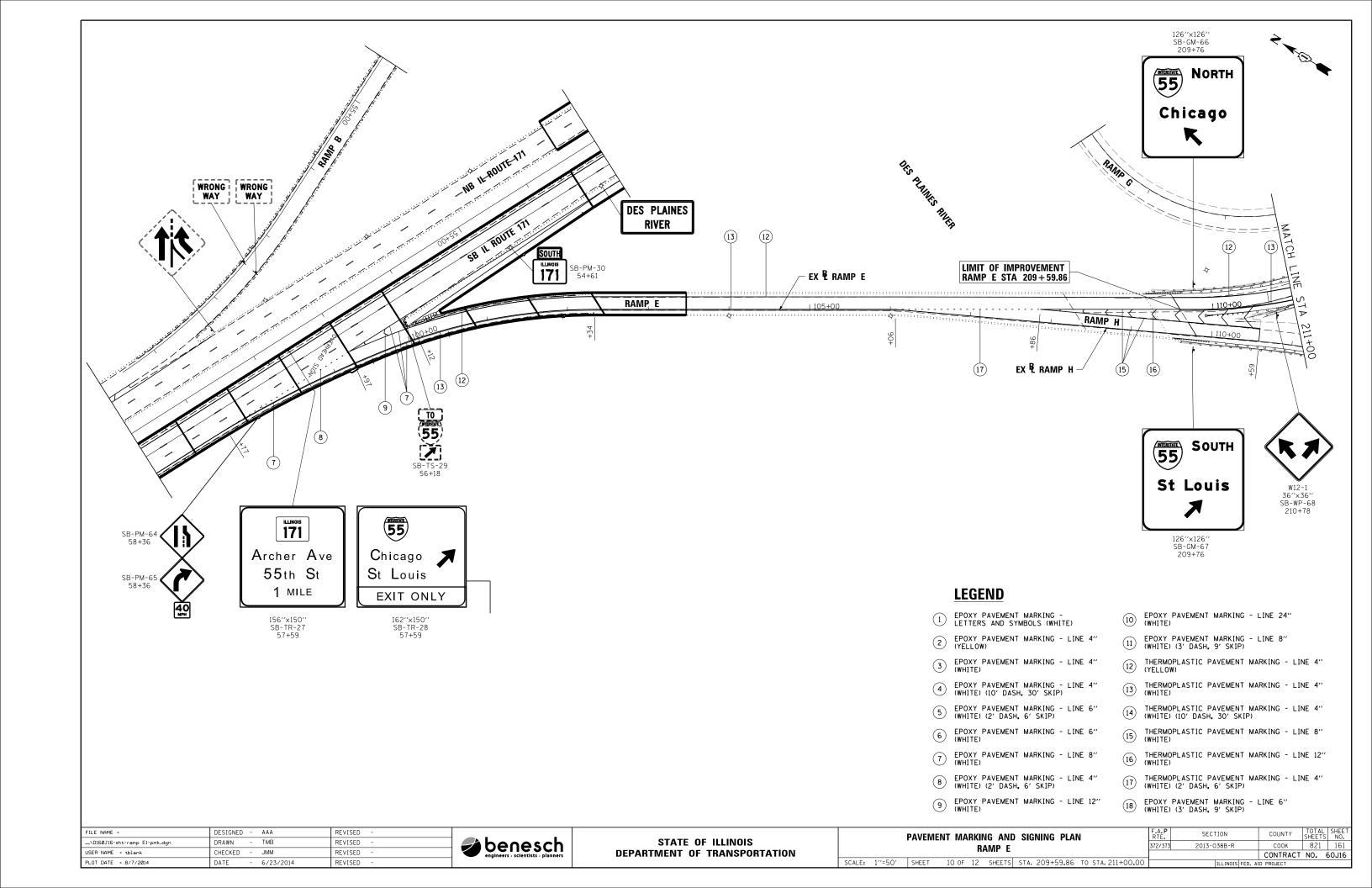
## **LEGEND**

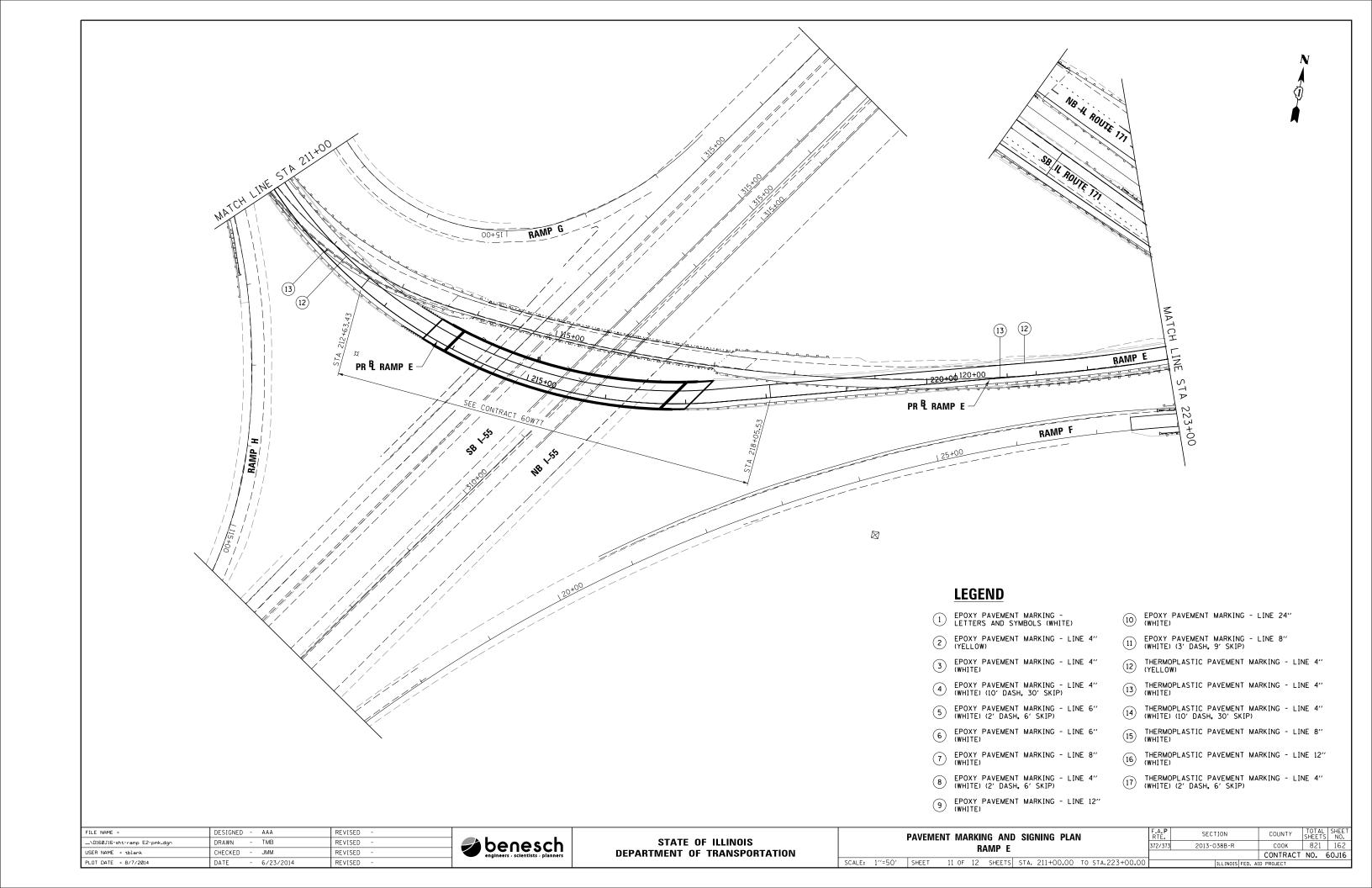
- 1 EPOXY PAVEMENT MARKING -LETTERS AND SYMBOLS (WHITE)
- 2 EPOXY PAVEMENT MARKING LINE 4" (YELLOW)
- 3 EPOXY PAVEMENT MARKING LINE 4"
- 4 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (10' DASH, 30' SKIP)
- 5 EPOXY PAVEMENT MARKING LINE 6" (WHITE) (2' DASH, 6' SKIP)
- 6 EPOXY PAVEMENT MARKING LINE 6"
- 7 EPOXY PAVEMENT MARKING LINE 8" (WHITE)
- 8 EPOXY PAVEMENT MARKING LINE 4" (WHITE) (2' DASH, 6' SKIP)
- 9 EPOXY PAVEMENT MARKING LINE 12" (WHITE)

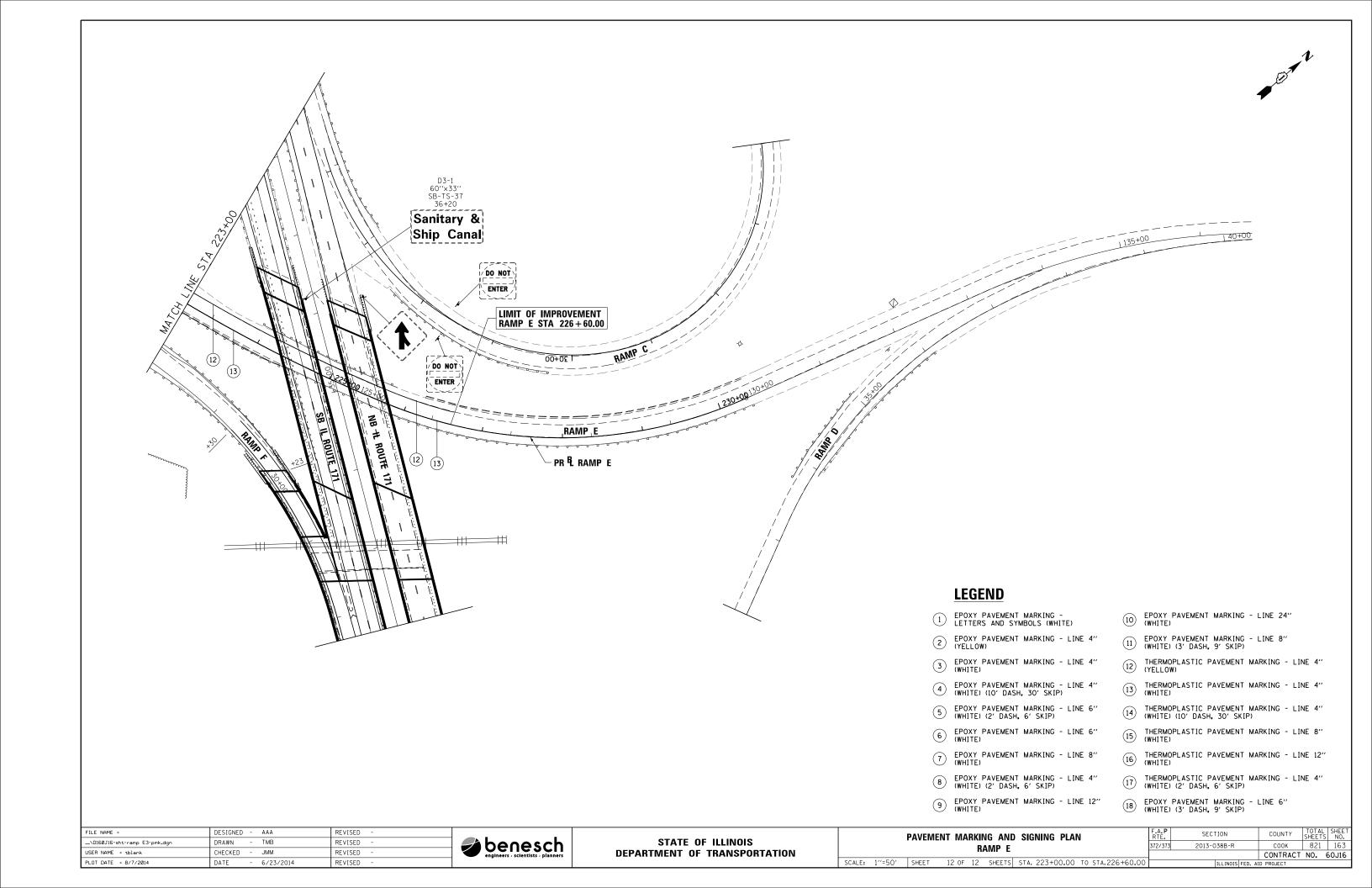
- (WHITE) EPOXY PAVEMENT MARKING LINE 24"
- (1) EPOXY PAVEMENT MARKING LINE 8" (WHITE) (3' DASH, 9' SKIP)
- $\fbox{12}$  THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) (10' DASH, 30' SKIP)
- THERMOPLASTIC PAVEMENT MARKING LINE 8" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) (2' DASH, 6' SKIP)
- (WHITE) (3' DASH, 9' SKIP)

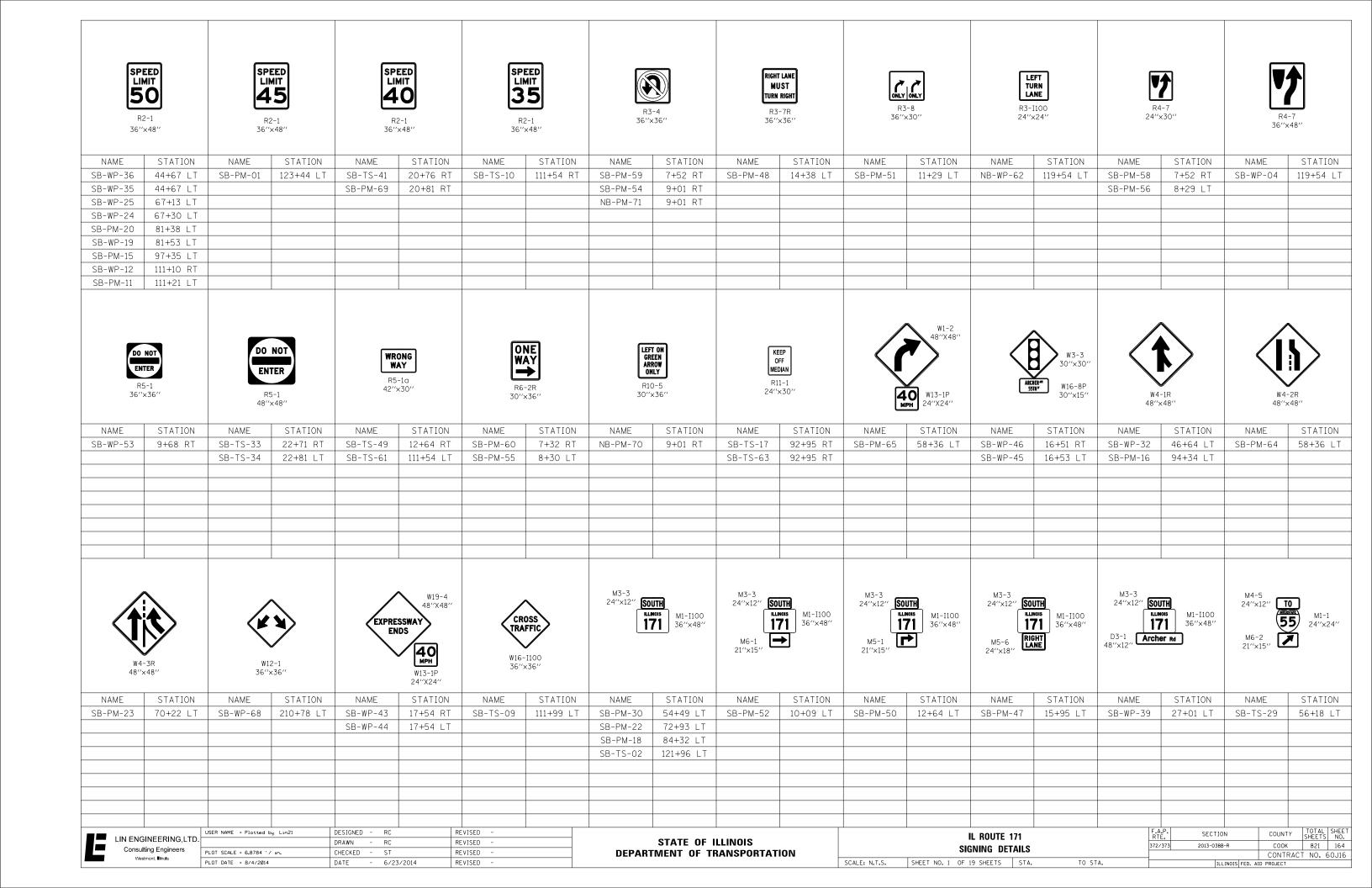
FILE NAME =	DESIGNED - AAA	REVISED -			PAVEMENT MARKING AND SIGNING PLAN	F.A.P RTF.	SECTION	COUNTY	TOTAL
\D160J16-sht-IL171-pmk-SB-08.dgn	DRAWN - TMB	REVISED -	🚽 🚄 benesch 📗	STATE OF ILLINOIS	IL 171	372/373	2013-038B-R	соок	821
USER NAME = tblank	CHECKED - JMM	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 6
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50"   SHEET   8 OF 12   SHEETS   STA. 96+00.00   TO STA. 110+00.0	.00	ILLINOIS FED. A	AID PROJECT	











M3-2 24"×12" <b>EAS</b> 55tt St D3-1 48"×12" <b>Arche</b> l	D3-1 24"x24"	7	5-1 ×60"	McC 3 I1-1 48"3		SUN 101- 148">	100							
NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION							
SB-WP-38	27+01 LT	SB-WP-08	112+77 LT	SB-PM-14	103+29 LT	SB-PM-26	64+88 LT							
LIN ENGIN	NEERING,LTD.	SER NAME = Plotted b		DESIGNED - RC DRAWN - RC		REVISED - REVISED -		STATE OF I	LLINOIS		L ROUTE 171 GNING DETAILS	F.,	A.P. SECTION CO /373 2013-038B-R C	DUNTY TOTAL SHEE NO. COOK 821 165

1:76



SIGN NUMBER

SB-TR-07, STA 114+60 LT

WIDTH x HGHT.

12'-6" x 3'-6"

BORDER WIDTH

2"

CORNER RADIUS

9"

MOUNTING

Overhead

BACKGROUND

TYPE: Reflective-ZZ

COLOR: Green

LEGENDBORDER

TYPE: Reflective-ZZ

COLOR: White-White

SYMBOL	ROT	Х	Υ	WID	HT
ARMED	45	112.3	9.6	18.3	29.3

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths

LETTER POSITIONS (X)										IGTH SERIES/SIZE											
4	7	t	h	S	t																EM 2000
15	30.1	43.5	54.7	76.9	90.5															8	2.4 13.3/10
													<u> </u>					+			
																		+			
																					_
																					_
																					_

	ι
LIN ENGINEERING,LTD.	
Consulting Engineers	F
Westmont, Illinois	F

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
	SIGNING DET	AII C		372/373	2013-038B-R	соок	COOK 821	
	Sidiville DEI			CONTRAC	T NO. 6	SOJ16		
SCALE: N.T.S.	SHEET NO. 3 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		

1:76



Panel Style: street name 12-9in\_edited.ssi M.U.T.C.D.: 2009 Edition

SIGN NUMBER SB-PM-13, STA 106+22 LT WIDTH x HGHT. 4'-6" x 1'-6" BORDER WIDTH 0.75" CORNER RADIUS 1.875" MOUNTING Pole BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT

Panel Style: street name 12-9in\_edited.ssi Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)									
4 7 t h S t	D 2000								
7.2 14.8 20.8 24.9 37.6 43.6	39.5 8/6								

 	USE
LIN ENGINEERING,LTD.	
Consulting Engineers	PLO
Westmont, Illinois	PL 0

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 ' / in.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATE OF ILLINOIS
<b>DEPARTMENT OF TRANSPORTATION</b>

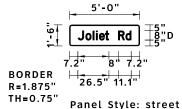
		IL ROUTE 1 Signing det		
SCALE: N.T.S.	SHEET NO. 4	OF 19 SHEETS	STA.	TO ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	COOK	821	167
		CONTRACT	「 NO. €	50J16
	TILL TNOTE FED. A	ID DDO IECT		

Panel Style: street name 12–9in\_edited.ssi

Dimensions are in inches.tenths

1:76



Panel Style: street name 12-9in\_edited.ssi M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER SB-TS-21, STA 80 + 29 LT WIDTH x HGHT. 5'-0" x 1'-6" BORDER WIDTH 0.75" CORNER RADIUS 1.875" MOUNTING Ground BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT

LETTER POSITIONS (X)												I	LENGTH SERIES/SIZE							
J o	I	i e	э	t	R	d														D 2000
7.2 13.8 19	9.9 2	2.8 25	5.4 3	0.5 4	1.7	48														45.6 8/6

	US
LIN ENGINEERING,LTD	٦.٠
Consulting Engineers	PL
Westmont, Illinois	PL

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
١.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

		IL ROUTE 1	71		F.A.P. RTE.	SE
		SIGNING DET	AILS		372/373	2013
SCALE: N.T.S.	SHEET NO. 5	OF 19 SHEETS	STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	соок	821	168
		CONTRACT	「 NO. €	50J16
	THE INDICATED A	ID DDO IECT		

1:76

3'-0" 5.3"4" 5.3" 6.9"14.6" 6.9"14.6" 10.5" 4"C Bes Plaines 3.5" 4"C 12.8" 12.8" BORDER 10.4" R=1.5" TH=0.5"

Panel Style: GuideSign

Panel Style: GuideSign\_D3-1.ssi M.U.T.C.D.: 2009 Edition

Panel Style: GuideSign\_D3-1.ssi
Dimensions are in inches.tenths

SIGN NUMBER	SB-PM-31, STA 52+38 LT				
WIDTH x HGHT.	3'-0" x 1'-6"				
BORDER WIDTH	0.5"				
CORNER RADIUS	1.5"				
MOUNTING	Ground				
BACKGROUND	TYPE: Reflective-AP				
	COLOR: Green				
LEGEND/BORDER	TYPE: Reflective-AP				
	COLOR: White/White				

SYMBOL	ROT	Х	Υ	WID	HT

												LE1	TER	POSITIONS (	X)				LENG1	H SERIES/SIZE
D	е	S	Р	I	а	i	n	е	S											C 2000
5.3	8.1	10.5	16.2	19.1	20.2	22.8	24.1	26.7	29										25.5	4⁄3
R	i	٧	е	r																C 2000
12.8	15.6	16.6	19.3	21.9															10.4	4/3
																				-
						1														
																				-
																				-
										1							+			
																				-
								-								+				4
						<u> </u>	<u> </u>	1		1			<u> </u>				1			
								-												_
																				_

	U
LIN ENGINEERING,LTD.	
Consulting Engineers	Pl
Westmont, Illinois	PL

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
	DRAWN	-	RC	REVISED	-
PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED	-
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		IL	ROUTE 1	71		F.A.P. RTE.	
		SIGNI	ING DET	AILS		372/373	2
SCALE: N.T.S.	SHEET NO. 6	OF 19	SHEETS	STA.	TO STA.	1	

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
372/373	2013-038B-R		COOK	821	169
			CONTRACT	T NO. 6	50J16
	ILLINOIS	FED. AI	D PROJECT		

1:76

3'-0"
17.1"3.5"
5 7" 4"5 7"

4"C 3.5" Sanitary & 33.5" 4"C
8.9"11"

BORDER HHH
R=1.5" 6.05"4"6.05"

TH=0.5" Panel Style: GuideSign\_D3-1.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER SB-TS-37, STA 36+20 LT WIDTH x HGHT. 3'-0" x 1'-6" BORDER WIDTH 0.5" CORNER RADIUS 1.5" MOUNTING Ground BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	НТ

Panel Style: GuideSign\_D3-1.ssi
Dimensions are in inches.tenths

	LETTER POSITIONS (X)												TH SERIES/SIZE												
S	а	n	i	t	а			у	&																C 2000
5.7	8.3	10.9		14.6	16.3	3 18.	.9	20.3	26.8															24.6	4/3
S	h	i	р	С		n			I																C 2000
6.1	8.9	11.6	12.9	18.9	21.	7 24.	.3	26.8	29.4															23.9	4/3
												_	-												
												1	1												
																									_
							_																		
																									_
												+	+					_							4
													1												
												-													-
							+	$\overline{}$																	
								-				-	+												-
												1	+		1										
																									-

 	1
LIN ENGINEERING,LTD.	Г
Consulting Engineers	
Westmont, Illinois	

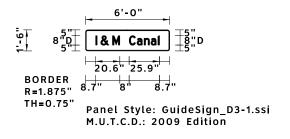
USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
	DRAWN	-	RC	REVISED	-
PLOT SCALE = 6.8382 ' / in.	CHECKED	-	ST	REVISED	-
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-
	PLOT SCALE = 6.8382 '/ in.	DRAWN PLOT SCALE = 6.8382 '/ in. CHECKED	DRAWN - PLOT SCALE = 6.8382 '/ in. CHECKED -	DRAWN - RC PLOT SCALE = 6.8382 ' / 1n. CHECKED - ST	DRAWN - RC   REVISED

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		IL ROUTE 1	71		
		SIGNING DET	AILS		
SCALE: N.T.S.	SHEET NO. 7	OF 19 SHEETS	STA.	TO STA.	$\neg$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	COOK	821	170
		CONTRACT	「 NO. €	50J16
	ILLINOIS FED. A	ID PROJECT		

1:76



SIGN NUMBER SB-TS-40, STA 24+60 LT WIDTH x HGHT. 6'-0" x 1'-6" BORDER WIDTH 0.75" CORNER RADIUS 1.875" MOUNTING Ground BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White/White

ROT	Х	Υ	WID	HT
	ROT	OOT X	ROT X Y	ROT X Y WID

Panel Style: GuideSign\_D3-1.ssi
Dimensions are in inches.tenths

	LETTER POSITIONS (X)											ENGTH	SERIES/SIZE											
I	&	М	С	а	n	а	1																	D 2000
8.7	13	23.1	37.4	44	50.1	55.9	62																54.6	8,6

IN ENGINEERING LTD	U
LIN ENGINEERING,LTD.	Г
Consulting Engineers	F
Westmont, Illinois	۱,

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
١.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		IL	ROUTE 1	71		F.
		SIGN	ING DET	AII S		372
	·					
SCALE: N.T.S.	SHEET NO. 8	OF 19	SHEETS	STA.	TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
372/373	2013-038B-R	COOK	821	171
		CONTRACT	T NO. 6	50J16
	TILITNOTS EED A	ID PROJECT		

SIGN DETAIL 1:76

To Joliet Road Next Right 7" 6"D F" 6

SIGN NUMBER SB-PM-03, STA 121+03 LT WIDTH x HGHT. 5'-0" x 3'-6" BORDER WIDTH 0.75" CORNER RADIUS 2.25" MOUNTING Pole BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT

Panel Style: Guide\_sign\_distance.ssi
Dimensions are in inches.tenths

LETTER POSITIONS (X)									LENGTH SERIES/SIZE										
Т	0																	D 2	2000
26	30.3																	7.9 6/4.5	5
J	0	ı	i	е	t	R	0	а	d									D 2	2000
8.6	13.5	18.1	20.3	22.2	26	34.4	39.2	43.5	47.8									42.8 6/4.5	5
N	е	x	t	R	i	g	h	t										D 2	2000
9.8	15	18.8	23.5	31.9	36.9	38.8	43.6	47.8										40.3 6/4.5	5
-																			

	US
LIN ENGINEERING,LTD.	
Consulting Engineers	Ρl
Westmont, Illinois	PI

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 ' / in.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 171											
SIGNING DETAILS												
	SIGIVING DETAILS											
	SCALE: N.T.S.	SHEET NO. 9	OF 19	SHEETS	STA.	TO STA.		_				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
372/373	2013-038B-R		COOK	821	172
			CONTRACT	T NO. 6	60J16
	ILLINOIS	FED. AI	D PROJECT		

1:76



SIGN NUMBER SB-TR-05, STA 114+60 LT WIDTH x HGHT. 12'-6" x 11'-6" BORDER WIDTH CORNER RADIUS MOUNTING Overhead BACKGROUND Reflective-ZZ TYPE: COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	НТ
M1-I100A	0	55.5	98	45	36

Letter locations are panel edge to lower left corner

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths

Panel Style: Guide\_sign.ssi

Panel Style: Guide\_sign.ssi

	M.U.I.C.D.: 2009 Edition																						
	LETTER POSITIONS (X)													LENGTH	SERIES/SIZE								
А	r	С	h	е	r	А	V	е															EM 2000
14.5	31.1	39.8	52.7	65.7	78.6	98.6	113.8 12	26.7														121.1	13.3/10
5	5	t	h	S	t																		EM 2000
34.4	48.1	61.7	72.9		108.7																		13.3/10
2	М	ı	L	E	S																		EM 2000
		76.4																				64.9	
																				+			
																							I
																							I
																							I
																							I
																							I
																				<u> </u>			
																							I
																							I
																							I
																							<u> </u>
																							I

	US
LIN ENGINEERING,LTD	٦.٠
Consulting Engineers	PL
Westmont, Illinois	PL

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
ر.		DRAWN	-	RC	REVISED	-
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED	-
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-

STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	SIGNING DET			372/373	2013-038B-R	COOK	821	173
	Oldiviiva DEI	AILU				CONTRAC	T NO. 6	60J16
SCALE: N.T.S.	SHEET NO. 10 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths

1:76



SIGN NUMBER	SB-TR-06, STA 114+60 LT
WIDTH x HGHT.	10'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective-ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective-ZZ
	COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1_1	0	42	88	36	36

M.U.T.C.D.: 2009 Edition																		
										LETTER	POSITIO	NS (X	)				LENGT	H SERIES/SIZE
C h i	С	а	g o															EM 2000
18.9 33.5 47.6	54.4	66.1	79.1 92														82.1	
S t L			i s															EM 2000
			88.7 95.3														88.1	13.3/10
1 M I	L	E																EM 2000
5.6 51.2 63.3	68.1	77.1			1												48.9	12,10
					-													
																		-
																		_

	U
LIN ENGINEERING,LTD.	Г
Consulting Engineers	Р
Westmont. Illinois	Ľ.
vectorion, annote	P

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
١.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	171		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIGNING DET	AII S		372/373	2013-038B-R	COOK	821	174
	Oldiving DE1	AILU				CONTRAC	T NO. 6	60J16
SCALE: N.T.S.	SHEET NO. 11 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths



SIGN NUMBER SB-TR-27, STA 57+03 LT WIDTH x HGHT. 12'-6" x 11'-6" BORDER WIDTH CORNER RADIUS 12" MOUNTING Overhead BACKGROUND TYPE: Reflective-ZZ COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1-I100A	0	55.5	98	45	36

LETTER POSITIONS (X)											SERIES/SIZE														
А	r	С	h	е	r			v	е																EM 2000
14.5		39.8		65.7	78.0	98.	6	113.8	126.7															_	13.3/10
5	5	t	h	S	t																				EM 2000
34.4		61.7	72.9		108.	7	_				_	_													13.3/10
1	М	ı	L	E																					EM 2000
50.6	66.2	78.3	83.1	92.1			_																	48.9	12,10
										1		+													
							+				+	_													
							_					_													
							+				+	$\overline{}$													
							+																		
												+													
										+		$\overline{}$													
												$\dashv$													
												+													

 	1
LIN ENGINEERING,LTD.	Г
Consulting Engineers	
Westmont, Illinois	

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
).		DRAWN	-	RC	REVISED	-
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED	-
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-

STATI	E OI	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

IL ROUTE 171	F.A.P. SECTION COUNTY TOTAL SHEE SHEETS NO.	T
SIGNING DETAILS	372/373 2013-038B-R COOK 821 175	
SIGNING DETAILS	CONTRACT NO. 60J16	,
SCALE: N.T.S. SHEET NO. 12 OF 19 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

1:76



SIGN NUMBER SB-TR-28, 57 + 03 LT WIDTH x HGHT. 15'-6" x 9'-6" BORDER WIDTH CORNER RADIUS MOUNTING Overhead BACKGROUND Reflective-ZZ TYPE: COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1_1	0	75	64	36	36
ARMED	45	150.4	45.8	18.3	29.3

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths

											LETTE	R POS	ITIONS	(X)						L	ENGTH	I SERIES/SIZE
С	h	i	С	а	g	0																EM 2000
51.9	66.5	80.6	87.4	99.1	112.1 1	25															82.1	13.3/10
S	t	L	0	u	i	s																EM 2000
48.9	62.5	82.8	94.4	107.6	121.7 12	28.3															88.1	13.3/10
																						1
															+							
							-															
																						1

	U
LIN ENGINEERING,LTD.	
Consulting Engineers	P
Westmont. Illinois	Ë
	ΙP

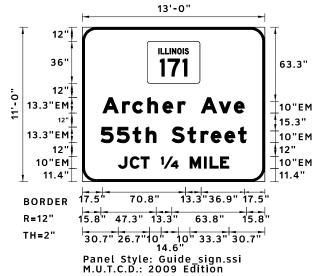
USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 ' / im.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -
	PLOT SCALE = 6.8382 '/ in.	DRAWN PLOT SCALE = 6.8382 '/ in. CHECKED	DRAWN - PLOT SCALE = 6.8382 '/ in. CHECKED -	DRAWN - RC PLOT SCALE = 6.8382 '/ in. CHECKED - ST

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	SIGNING DET	2 ΠΔ		372/373	2013-038B-R	COOK	821	176
	JIGINING DEI			CONTRAC	T NO. 6	50J16		
SCALE: N.T.S.	SHEET NO. 13 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths



SIGN NUMBER SB-GM-42, STA 18+55 LT WIDTH x HGHT. 13'-0" x 11'-0" BORDER WIDTH CORNER RADIUS MOUNTING Ground BACKGROUND TYPE: Reflective-ZZ COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1-I100A	0	55.5	98	45	36

											M.U.T.C.								
LETTER POSITIONS (X)												LENGT	H SERIES/SIZ						
A r	С	h	е	r	А	V	е												EM 2000
7.5 34.1	42.8	55.7	68.7	81.6	101.6	116.8	129.7											121.1	13.3/10
5 5	t	h	S	t	r	е	е	t											EM 2000
5.8 29.5	43.1	54.3	76.5	90.1	101.3	109.9	121.7	133.3										124.4	13.3/10
J C	Т	1/4	М	ı	L	E													EM 2000
0.7 40.7	50	67.4	92	104.1	108.9	117.9												94.7	10

	U
LIN ENGINEERING,LTD.	Г
Consulting Engineers	Р
Westmont. Illinois	Ľ.
vectorion, annote	P

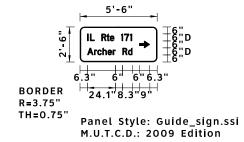
	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
١.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATE OF ILLINOIS									
DEPARTMENT	0F	TRANSPORTATION							

	IL I	ROUTE 1	71		F.A.P. RTE.	s					
	SIGNING DETAILS										
SCALE: N.T.S.	SHEET NO. 14 OF 19	SHEETS	STA.	TO STA.							

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
372/373	2013-038B-R		COOK	821	177
		П	CONTRAC	T NO. 6	50J16
	ILLINOIS FED.	AIC	PROJECT		

1:76



SIGN NUMBER SB-PM-57, STA 7+80 LT WIDTH x HGHT. 5'-6" x 2'-6" BORDER WIDTH 0.75" CORNER RADIUS 3.75" MOUNTING Overhead BACKGROUND TYPE: Reflective-ZZ COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	НТ
ARUP	270	50.7	12	6	9

Panel Style: Guide\_sign.ssi

Dimensions are in inches.tenths

LETTER POSITIONS (X)													LENGTH SERIES/SIZE							
ı	L	R	t	е	1	7														D 2000
6.3	8.7	18.4	22.9	25.7	35.2	37.9	43	3												38.2 6,4.5
A	r	С	h	е	r	R	d													D 2000
6.3	12.2	14.9	19.3	23.7	28.1	36.4	41	.1												38.4 6/4.5
													+							
							+						+							
													+							
							+						+		_					
													+		_					
													+							

	ι
LIN ENGINEERING,LTD.	
Consulting Engineers	F
Westmont, Illinois	F

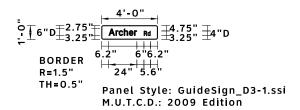
USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
	DRAWN	-	RC	REVISED	-
PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED	-
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		IL I	ROUTE 1	71		F.A.P. RTE.							
	SIGNING DETAILS												
	SCALE: N.T.S.	SHEET NO. 15 OF 19	SHEETS	STA.	TO STA.								

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	соок	821	178
		CONTRACT	「 NO. €	50J16
	ILLINOIS FED. A	ID PROJECT		

1:76



SIGN NUMBER SB-WP-39, STA 27+01 LT WIDTH x HGHT. 4'-0" x 1'-0" BORDER WIDTH 0.5" CORNER RADIUS 1.5" MOUNTING Ground BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White,Black/White

SYMBOL	ROT	Х	Υ	WID	НТ

Panel Style: GuideSign\_D3-1.ssi
Dimensions are in inches.tenths

	LETTER POSITIONS (X)														LEN	GTH SERIES/SIZE						
А	r	С	h	е	r																	D 2000
6.2	12.1	14.8	19.2	23.6	28																24	.1 6⁄4.4
R	d																					D 2000
36.3	39.4																				5	6 4/2.9
															<u> </u>							
									-			-				-						_
									1						1							
										-					+							_
									+	+												
								+	$\rightarrow$	$\rightarrow$					+	-+						_

	ı
LIN ENGINEERING,LTD.	
Consulting Engineers	F
Westmont, Illinois	-

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
١.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	IL ROUTE 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	SIGNING DET	372/373	2013-038B-R	соок	821	179	
	Sidiving DE1			CONTRAC	T NO. 6	50J16	
SCALE: N.T.S.	SHEET NO. 16 OF 19 SHEETS	ILLINOIS FED. AID PROJECT					

1:76

# 4'-0" ## 4'-0" ## 4'-0" ## 4'-75" ## 4"D ## 4'-0" ## 4'-75" ## 4"D ## 55.75" ## 50.5" ## 24.1"6.4" ## 24.1"6.4" ## 1.5" ## 24.1"6.4"

Panel Style: GuideSign\_D3-1.ssi ## M.U.T.C.D.: 2009 Edition SIGN NUMBER SB-WP-38, STA 27+01 LT WIDTH x HGHT. 4'-0" x 1'-0" BORDER WIDTH 0.5" CORNER RADIUS 1.5" MOUNTING Ground BACKGROUND TYPE: Reflective-AP COLOR: Green LEGEND/BORDER TYPE: Reflective-AP COLOR: White,Black/White

SYMBOL	ROT	Х	Υ	WID	HT

Panel Style: GuideSign\_D3-1.ssi
Dimensions are in inches.tenths

	LETTER POSITIONS (X)															LENG <sup>-</sup>	TH SERIES/SIZE				
А	r	С	h	е	r																D 2000
5.8	11.6	14.4	18.7	23.2	27.5															24.1	6/4.4
А	v																				D 2000
35.8	39.4																			6.4	4/2.9
																					_
																					_
																					$\dashv$
																					_
																					+

	U
LIN ENGINEERING,LTD.	
Consulting Engineers	PL
Westmont. Illinois	$\vdash$
	I DI

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

IL ROUTE 171	F.A.P. RTE.	
SIGNING DETAILS	372/373	
SIGNING DETAILS	_	
SCALE: N.T.S.   SHEET NO. 17 OF 19 SHEETS   STA. TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	COOK	821	180
		CONTRACT	T NO. 6	60J16

Panel Style: Guide\_Exit Gore.ssi

Dimensions are in inches tenths

1:76



SIGN NUMBER SB-GM-66, STA 209 + 76 LT WIDTH x HGHT. 10'-6" x 10'-6" BORDER WIDTH CORNER RADIUS MOUNTING Ground BACKGROUND TYPE: Reflective-ZZ COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1_1	0	14	75	36	36
ARMED	135	51.8	15.3	18.3	29.3

								LETTER	POSITION	ONS	X)				LENG	STH SERIES/SI
N O	R	Т	Н													EM 2000
62 74.7	85.5	94.7	103.9												50	12,10
C h	i	С	а	g o												EM 2000
22 36.5	50.6	57.4	69.2	82.1 95											82.	1 13.3/10
									İ							
									+ +							
																_
																_

 LIN ENGINEERING LTD	
LIN ENGINEERING,LTD.	
Consulting Engineers	Г
Westmont, Illinois	г

USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
	DRAWN	-	RC	REVISED -
PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

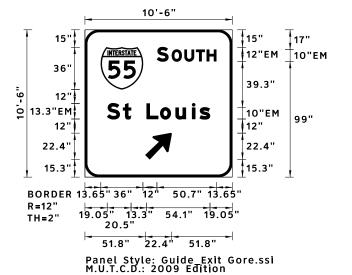
STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

_		IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
		SIGNING DET	AII C		372/373	2013-038B-R	COOK	821	180
							CONTRAC	T NO.	60J16
	SCALE: N.T.S.	SHEET NO. 17A OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

Panel Style: Guide\_Exit Gore.ssi

Dimensions are in inches.tenths

1:76



SIGN NUMBER SB-GM-68, STA 209+76 RT WIDTH x HGHT. 10'-6" x 10'-6" BORDER WIDTH CORNER RADIUS MOUNTING Ground BACKGROUND TYPE: Reflective-ZZ COLOR: Green LEGEND/BORDER TYPE: Reflective-ZZ COLOR: White/White

SYMBOL	ROT	Х	Υ	WID	HT
M1_1	0	13.6	75	36	36
ARMED	45	51.8	15.3	18.3	29.3

									LETTER F	OITIZO	VS (X)				LENGTH	SERIES/SIZ
S	0	U	Т	Н											EM	2000
61.6	74.4	85.2	95.1	104.3											50.7 12,10	)
S	t	L	0	u	i s										EM	2000
19	32.6	52.8	64.4	77.6	91.7 98.2										87.9 13.3/	10
						1										
						1										
						1										

	LIN ENGINEERING,LTD.	-
Ŀ	Consulting Engineers	
_	Westmont, Illinois	1

	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED	-
١.		DRAWN	-	RC	REVISED	-
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED	-
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED	-

STATI	E OI	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIGNING DET	All C		372/373	2013-038B-R	соок	821	180B
	Sidiville DEI	AILU				CONTRAC	T NO. 6	50J16
SCALE: N.T.S.	SHEET NO. 17B OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

					72000100	72000200	72000300	72400100	72400200	7240310	7240320	7240330	72700100	72800100	73000100	73400100	73600100	73700100	73700200	73700300
		SIGN	SCHEDULE		SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	REMOVE SIGN	REMOVE SIGN - PANEL ASSEMBLY -	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	STRUCTURAL STEEL SIGN SUPPORT -	TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE -	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION -	REMOVE CONCRETE FOUNDATION -
													BREAKAWAY				SPAN		GROUND MOUNT	OVERHEAD
SIGN NAME SB-PM-60	STATION 7+32	OFFSET RT	ALIGNMENT IL 171	LEGEND/DESCRIPTION R6-2R	SQ FT 7.50	SQ FT	SQ FT	EACH	EACH	SQ FT 7.50	SQ FT	SQ FT	POUND	FOOT	FOOT	CU YD	EACH	EACH	EACH	EACH
SB-PM-59	7+52	RT	IL 171	R3-4	9.00					9.00										
SB-PM-58	7+52	RT	IL 171	R4-7	5.00					5.00										
SB-PM-57	7+80	LT	IL 171	D3-1		13.75					15									
SB-PM-56	8+29	LT	IL 171	R4-7	5.00					5.00										
SB-PM-55 SB-PM-54	8+30 9+01	LT RT	IL 171 IL 171	R6-2R R3-4	7.50 9.00					7.50 9.00										
NB-PM-70	9+01	RT	IL 171	R10-5	7.50					7.50										
NB-PM-71	9+01	RT	IL 171	R3-4	9.00					9.00										
SB-WP-53	9+68	RT	IL 171	R5-1	9.00			1							16					
SB-PM-52 SB-PM-52	10+09 10+09	LT LT	IL 171 IL 171	M3-3 M6-1	2.00 2.19					2.00 2.19										
SB-PM-52	10+09	LT	IL 171	M1-I100	2.13	12.00				2.13	12									
SB-PM-51	11+29	LT	IL 171	R3-8	7.50					7.50										
SB-PM-50	12+64	LT	IL 171	M3-3	2.00					2.00										
SB-PM-50 SB-PM-50	12+64 12+64	LT LT	IL 171 IL 171	M5-1 M1-I100	2.19	12.00				2.19	12.00									
SB-TS-49	12+64	RT	IL 171	R5-1a	8.75	12.00		1			12.00			16.5						
SB-PM-48	14+38	LT	IL 171	R3-7R	9.00					9.00										
SB-PM-47	15+95	LT	IL 171	M3-3	2.00					2.00										
SB-PM-47 SB-PM-47	15+95 15+95	LT LT	IL 171 IL 171	M5-6 M1-I100	3.00	12.00				3.00	12.00									
SB-PIVI-47 SB-WP-46	16+51	RT	IL 1/1 IL 171	W3-3	6.25	12.00					12.00									
SB-WP-46	16+51	RT	IL 171	W16-8P	3.13															
SB-WP-46	16+51	RT	IL 171	W3-3/W16-8P					1						16					
SB-WP-45	16+53	LT	IL 171	W3-3	6.25															
SB-WP-45 SB-WP-45	16+53 16+53	LT LT	IL 171 IL 171	W16-8P W3-3/W16-8P	3.13				1						16					
SB-WP-44	17+54	LT	IL 171	W13-1P/W19-4	4.00	16.00			_						32					
SB-WP-43	17+54	RT	IL 171	W13-1P/W19-4	4.00	16.00									32					
SB-GM-42	18+55	LT	IL 171	GUIDE / W14X38		42.00	143.00		1			143.00	2109.00	16		4.18		1	2	
SB-TS-41 SB-PM-69	20+76 20+81	RT RT	IL 171 IL 171	R2-1 R2-1		12.00 12.00			1					16						
SB-TS-33	22+71	RT	RAMP G	R5-1		16.00			1					16						
SB-TS-34	22+81	LT	RAMP G	R5-1		16.00			1					16						
SB-TS-40	24+60	LT	IL 171	D3-1	9.00				1					32						
SB-WP-38 SB-WP-38	27+01 27+01	LT LT	IL 171 IL 171	D3-1 D3-1	4.00 4.00															
SB-WP-38	27+01	LT	IL 171	M3-2	2.00															
SB-WP-39	27+01	LT	IL 171	D3-1	4.00															
SB-WP-39	27+01	LT	IL 171	M3-3	2.00															
SB-WP-39 SB-WP-38/39	27+01 27+01	LT	IL 171 IL 171	M1-I100 D3-1/M1-I100/M3-2/M3-3		12.00			1						16					
SB-TS-37	36+20	LT	IL 171	I-3	4.50				1					32	10					
SB-WP-35	44+67	LT	IL 171	R2-1		12.00			1						16					
SB-WP-36	44+67	LT	IL 171	R2-1		12.00			1						16					
SB-WP-32 SB-PM-31	46+64 52+38	LT LT	IL 171 IL 171	W4-1R I-3	4.50	16.00			1		16.50				16					
SB-PM-30	54+49	LT	IL 171	M3-3	2.00					2.00	10.50									
SB-PM-30	54+49	LT	IL 171	M1-I100		12.00					12									
SB-TS-29	56+18	LT	IL 171	M1-1	4.00															
SB-TS-29 SB-TS-29	56+18 56+18	LT LT	IL 171 IL 171	M4-5 M6-2	2.00 2.19															
SB-TS-29	56+18		IL 171	M1-1/M4-5/M6-2					1					16						
SB-TR-28	57+03	LT	IL 171	GUIDE			147.25													
SB-TR-27	57+03	LT	IL 171	GUIDE			143.75													
	57+59 57+59	LT LT	IL 171 IL 171	GUIDE GUIDE													1			4
SB-PM-65	58+36	LT	IL 171	W1-2		16.00					1						1			
SB-PM-65	58+36	LT	IL 171	W13-1P	4.00															
SB-PM-64	58+36	LT	IL 171	W4-2R		16.00														
SB-PM-26 SB-WP-25	64+88 67+13	LT LT	IL 171 IL 171	I1-I100 R2-1	8.00	12.00			1	8.00					16					
SB-WP-25 SB-WP-24	67+30	LT	IL 1/1 IL 171	R2-1 R2-1		12.00			1						16					
SB-PM-23	70+22	LT	IL 171	W4-3R		16.00					16.00									
SB-PM-22	72+93	LT	IL 171	M3-3	2.00					2.00										
SB-PM-22	72+93	LT	IL 171	M1-I100		12.00			<u> </u>		12.00						1	<u> </u>		



_	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -
ر.		DRAWN	-	RC	REVISED -
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIGNING DET	AII C		372/373	2013-038B-R	COOK	821	181
	JIGINING DEI	AILO				CONTRAC	T NO. 6	50J16
SCALE: N.T.S.	SHEET NO. 18 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

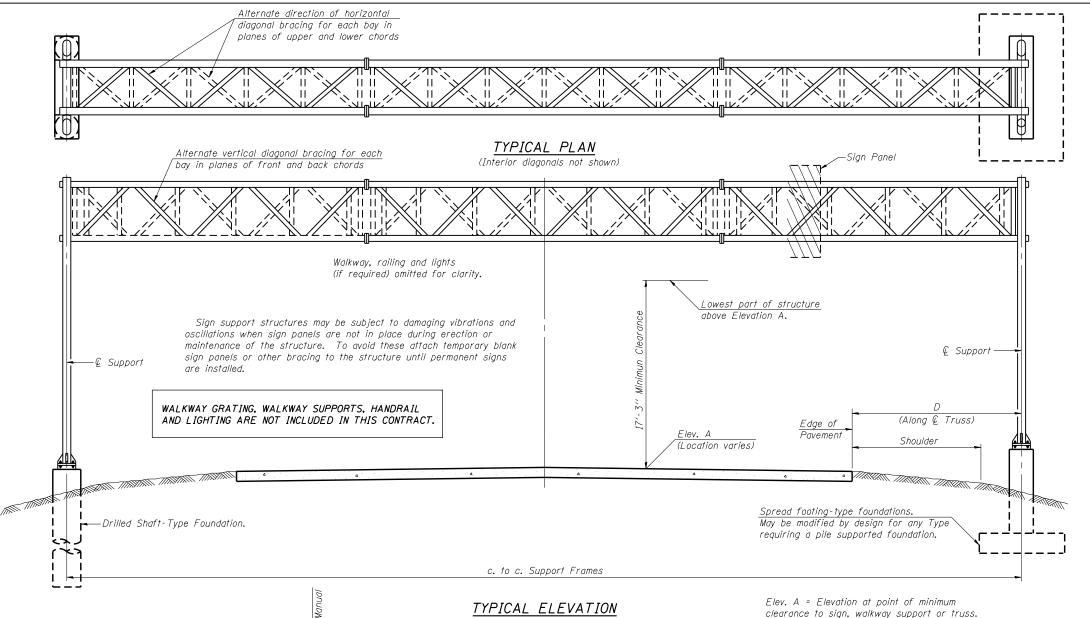
					72000100	72000200	72000300	72400100	72400200	7240310	7240320	7240330	72700100	72800100	73000100	73400100	73600100	73700100	73700200	73700300
		SIGN	I SCHEDULE		SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	REMOVE CONCRETE FOUNDATION OVERHEAD
SIGN NAME	STATION	OFFSET	ALIGNMENT	LEGEND/DESCRIPTION	SQFT	SQ FT	SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	POUND	FOOT	FOOT	CU YD	EACH	EACH	EACH	EACH
SB-TS-21	80+29	LT	IL 171	D3-1	7.50			1						16						
SB-PM-20	81+38	LT	IL 171	R2-1		12.00					12.00									
SB-WP-19	81+53	LT	IL 171	R2-1		12.00			1						16					
SB-PM-18	84+32	LT	IL 171	M3-3	2.00					2.00										
SB-PM-18	84+32	LT	IL 171	M1-I100		12.00					12.00									
SB-TS-17	92+95	RT	IL 171	R11-1	5.00															
SB-TS-63	92+95	RT	IL 171	R11-1	5.00															
SB-TS-17/63	92+95	RT	IL 171	R11-1					1					16						
SB-PM-16	94+34	LT	IL 171	W4-1R		16.00					16.00				16					
SB-PM-15	97+35	LT	IL 171	R2-1		12.00					12.00									
SB-PM-14	103+29	LT	IL 171	11-1100	8.00					8.00										
SB-PM-13	106+22	LT	IL 171	D3-1	6.75					6.75										
SB-WP-12	111+10	RT	IL 171	R2-1		12.00			1						16					
SB-PM-11	111+21	LT	IL 171	R2-1		12.00					12.00									
SB-TS-61	111+54	LT	IL 171	R5-1a	8.75															
SB-TS-10	111+54	RT	IL 171	R2-1		12.00														
SB-TS-10/61	111+54		IL 171	R2-1/R5-1a					1					16.5						
SB-TS-09	111+99		IL 171	W16-I100	9.00			1						16						
SB-WP-08	112+77	LT	IL 171	E5-1			30.00		1						16					
	114+25	LT	IL 171	GUIDE																
	114+25	LT	IL 171	GUIDE													1			4
	114+25	LT	IL 171	GUIDE													]			
SB-TR-07	114+60	LT	IL 171	GUIDE			43.75													
SB-TR-05	114+60	LT	IL 171	GUIDE			143.75													
SB-TR-06	114+60	LT	IL 171	GUIDE			115.00													
NB-WP-62	119+54	LT	IL 171	R3-I100	4.00															
SB-WP-04	119+54	LT	IL 171	R4-7		12.00														
B-WP-62/04	119+54		IL 171	R4-7/R3-I100					1						16					
SB-PM-03	121+03	LT	IL 171	GUIDE		17.50					19.25									
SB-TS-02	121+96	LT	IL 171	M3-3	2.00															
SB-TS-02	121+96	LT	IL 171	M1-I100		12.00														
SB-TS-02	121+96	LT	IL 171	M1-I100/M3-3					1					16						
SB-PM-01	123+44		IL 171	R2-1		12.00					12									
SB-GM-66	209+76	LT	RAMP E	GUIDE			110.25					110.25	2023.60			4.18		1	2	
SB-GM-67	209+76	RT	RAMP E	GUIDE			110.25					110.25	2023.60			4.18		1	2	
SB-WP-68	210+78	LT	RAMP E	W12-1	9.00			1							16					
			Γ	TOTAL	259.06	439.25	987.00	5	21	118.13	202.75	363.50	6156.20	225.00	304.00	12.54	2	3	6	8
			}	ROUNDED TOTAL		439.25	987	5	21	118.13	202.75	364	6156.20	225.00	304.00	12.54	2	3	6	8

E	LIN ENGINEERING,LTD. Consulting Engineers Westmont. Illinois
	Westmont, Illinois

_	USER NAME = Plotted by Lin21	DESIGNED	-	RC	REVISED -	
D.		DRAWN	-	RC	REVISED -	
	PLOT SCALE = 6.8382 '/ in.	CHECKED	-	ST	REVISED -	
	PLOT DATE = 8/4/2014	DATE	-	6/23/2014	REVISED -	

STATE	OF	- ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	IL ROUTE 1	71		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIGNING DET	372/373	2013-038B-R	COOK	821	182		
	Sidiville DEI	AILU				CONTRAC	T NO.	60J16
SCALE: N.T.S.	SHEET NO. 19 OF 19 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



# (Looking at Face of Signs\*\*)

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S016S171L000.0-004	114+60.00	I-A	80.00′	619.84	8.42′	11.50′	302.50 S.F.
1S016S171L000.0-005	<i>57+03.33</i>	I - A	67.00′	625.74	8.24′	11.50′	291.00 S.F.

<sup>\*\*</sup>Looking upstation for structures with signs both sides.

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

### GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs, concentrated live load.

DESIGN STRESSES:

Field Units

f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

# TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	147
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	12.7

OS-A-1

6-1-12

30 p.s.f.

Manual for max. sign areas)

Maximum Lenath c. to c. Support Frames

(See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special

(See Sign Structures

 	US
LIN ENGINEERING,LTD.	FI
Consulting Engineers	PL
Springfield, Illinois	PL

analysis for all components.

10 p.s.1

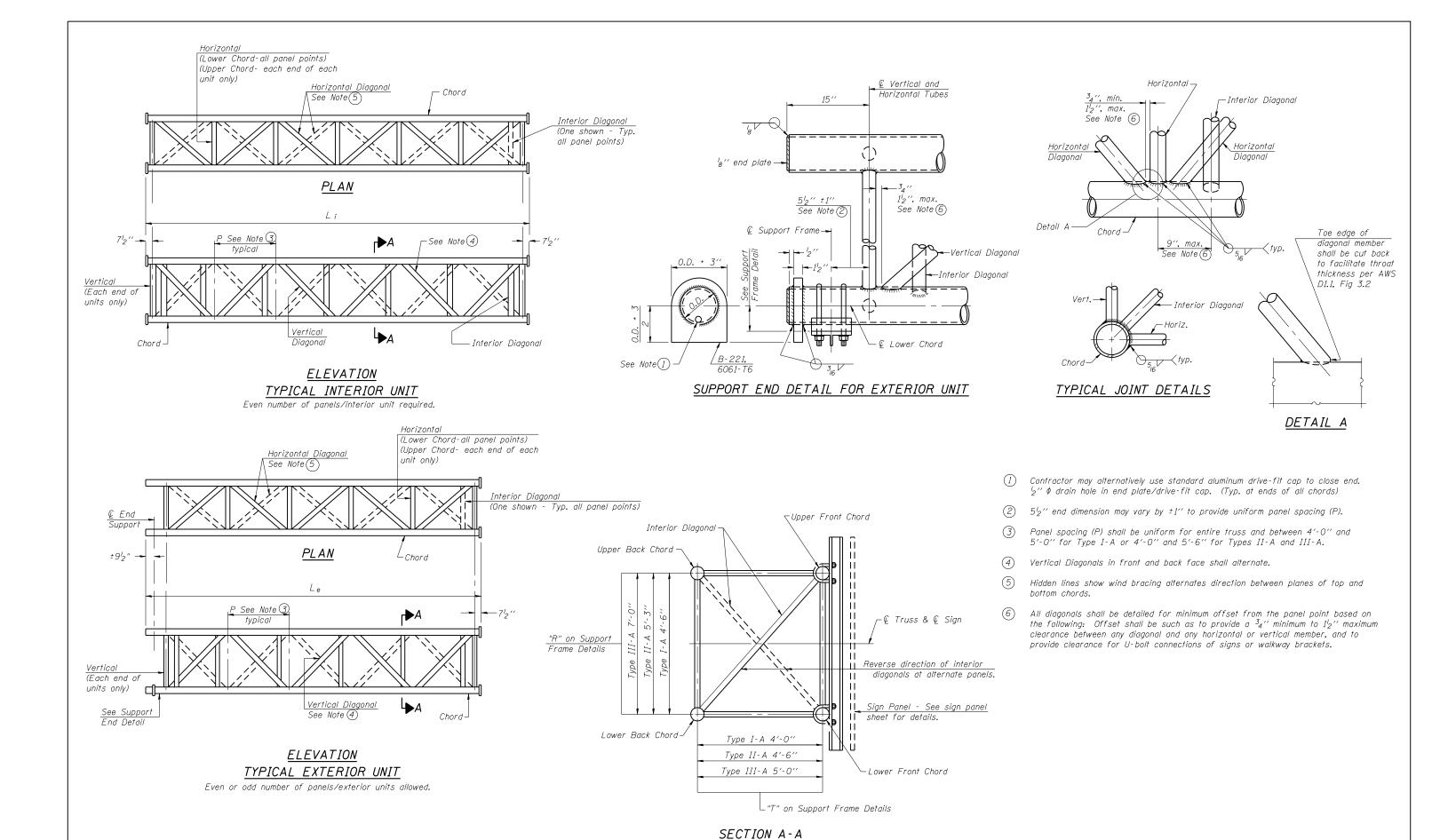
	USER NAME =	DESIGNED - JJA	REVISED -
D.	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

End Support

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & **ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS** SHEET NO. 1 OF 10 SHEETS

SECTION COUNTY 372/373 2013-038B-R COOK 821 183 CONTRACT NO. 60J16



*OS-A-2* 6-1-12

		USER NAME =	DESIGNED - JJA	REVISED -
	LIN ENGINEERING,LTD.	FILE NAME =	CHECKED - TBP	REVISED -
	Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN - RPW	REVISED -
	Springheid, Milnois	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

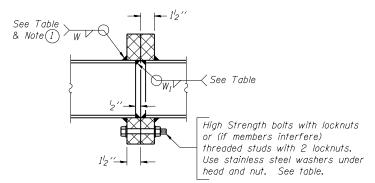
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SHEET NO. 2 OF 10 SHEETS

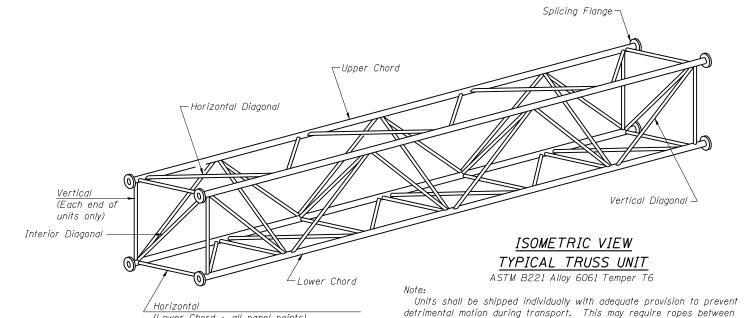
# TRUSS UNIT TABLE

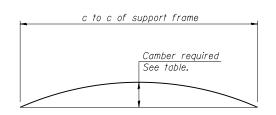
Structure	re Design Exterior Units (2) Interior Unit									r Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals						Splicing Flange					
Number	Station	Type	No. Panels		Panel	No.	No. Panels		Panel				-	at Midspan	Bolt.		Weld	Sizes	A	В	
			per Unit	Lgth.(L <sub>e</sub> )	Lgin.(P)	Req a.	per Unit	Lgth.(L; )	Lgin.(P)	0.D.	Wall	0.D.	Wall		No./Splice	Dia.	W	W <sub>1</sub>			
1S016S171L000.0-004	114+60.00	I-A	5	25′-10"	4'-912"	1	6	30′-0"	4'-912"	5"	<sup>5</sup> 16 "	21/2"	5 <sub>16</sub> "	214"	6	<sup>7</sup> 8"	<sup>5</sup> 16 "	4"	8 <sup>3</sup> 4"	11 <sup>3</sup> 4"	
1S016S171L000.0-005	57+03 <b>.</b> 33	<i>I-</i> A	7	34′-3"	4'-712"	0	-	-	-	5"	14"	21/2"	l <sub>4</sub> "	1 <sup>5</sup> 8"	6	<sup>7</sup> 8"	<sup>5</sup> 16 "	4"	8 <sup>3</sup> 4"	11 <sup>3</sup> 4"	



# SECTION B-B

1 Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.





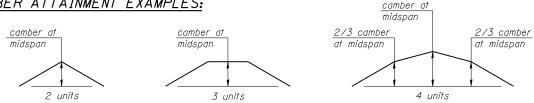
# CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

(Lower Chord - all panel points)

(Upper Chord - each end of each unit only)

# CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

# 0S4-A-2

6-1-12

 	USER NAME =	DI
LIN ENGINEERING,LTD.	FILE NAME =	CI
Consulting Engineers	PLOT SCALE =	DI
Springfield, Illinois	PLOT DATE = 6/23/2014	CI

	USER NAME =	DESIGNED - JJA	REVISED -
١.	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

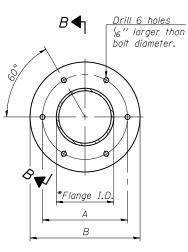
### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS	F.A.P. RTE.	SECTION	Ī
FOR TRUSS TYPES I-A. II-A AND III-A	372/373	2013-038B-R	Ī
TOIL THOSE THES I-A, II-A AND III-A			Γ
SHEET NO. 3 OF 10 SHEETS		TILINOIS EED AT	<u>_</u>

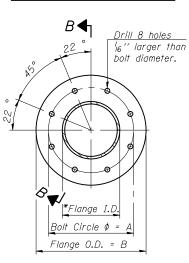
horizontals and diagonals or energy dissipating (elastic) ties to the vehicle.

The Contractor is responsible for maintaining the configuration and

protection of the units.



### TRUSS TYPES I-A, II-A, & III-A



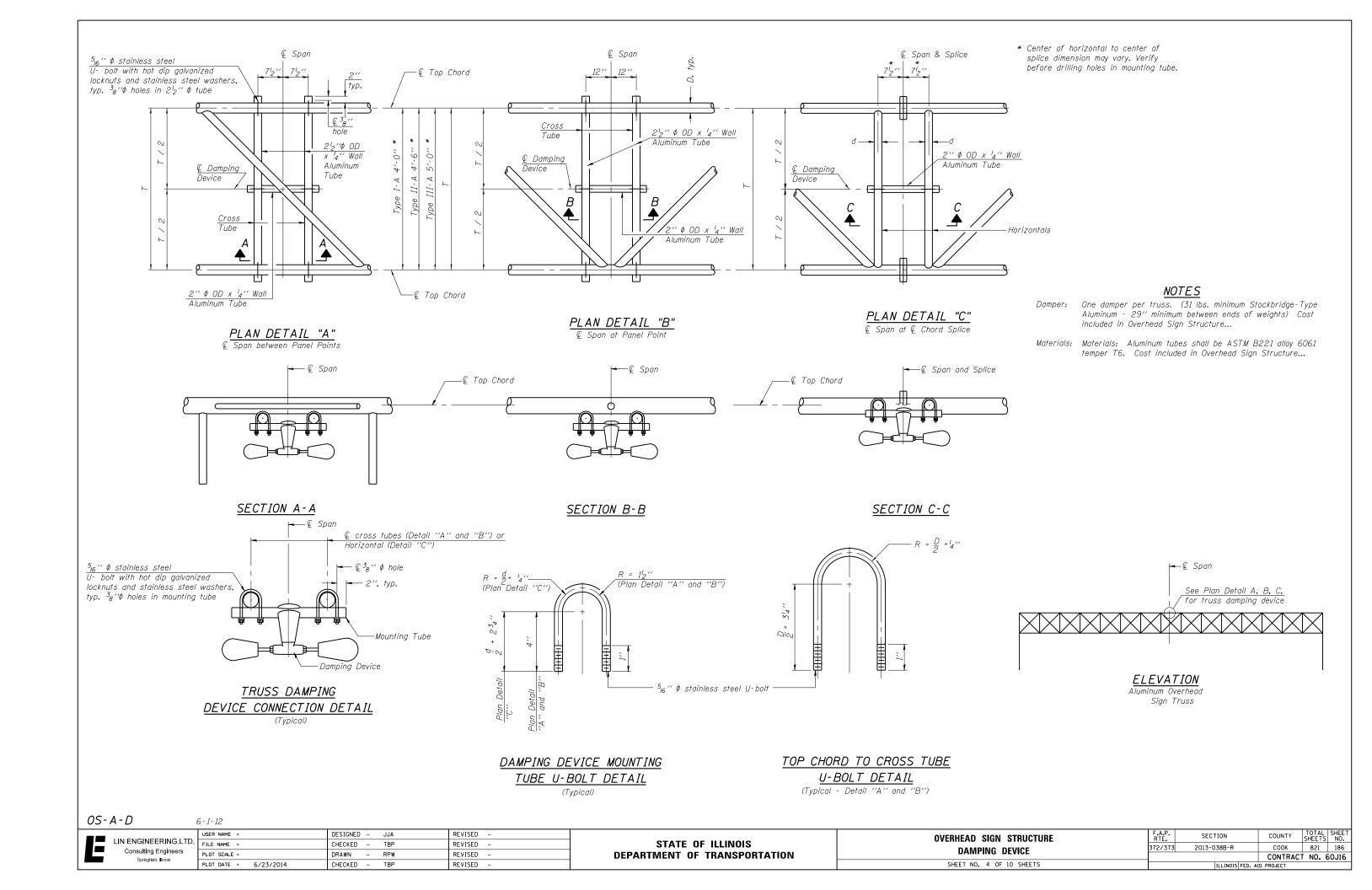
# TRUSS TYPES II-A & III-A SPLICING FLANGES

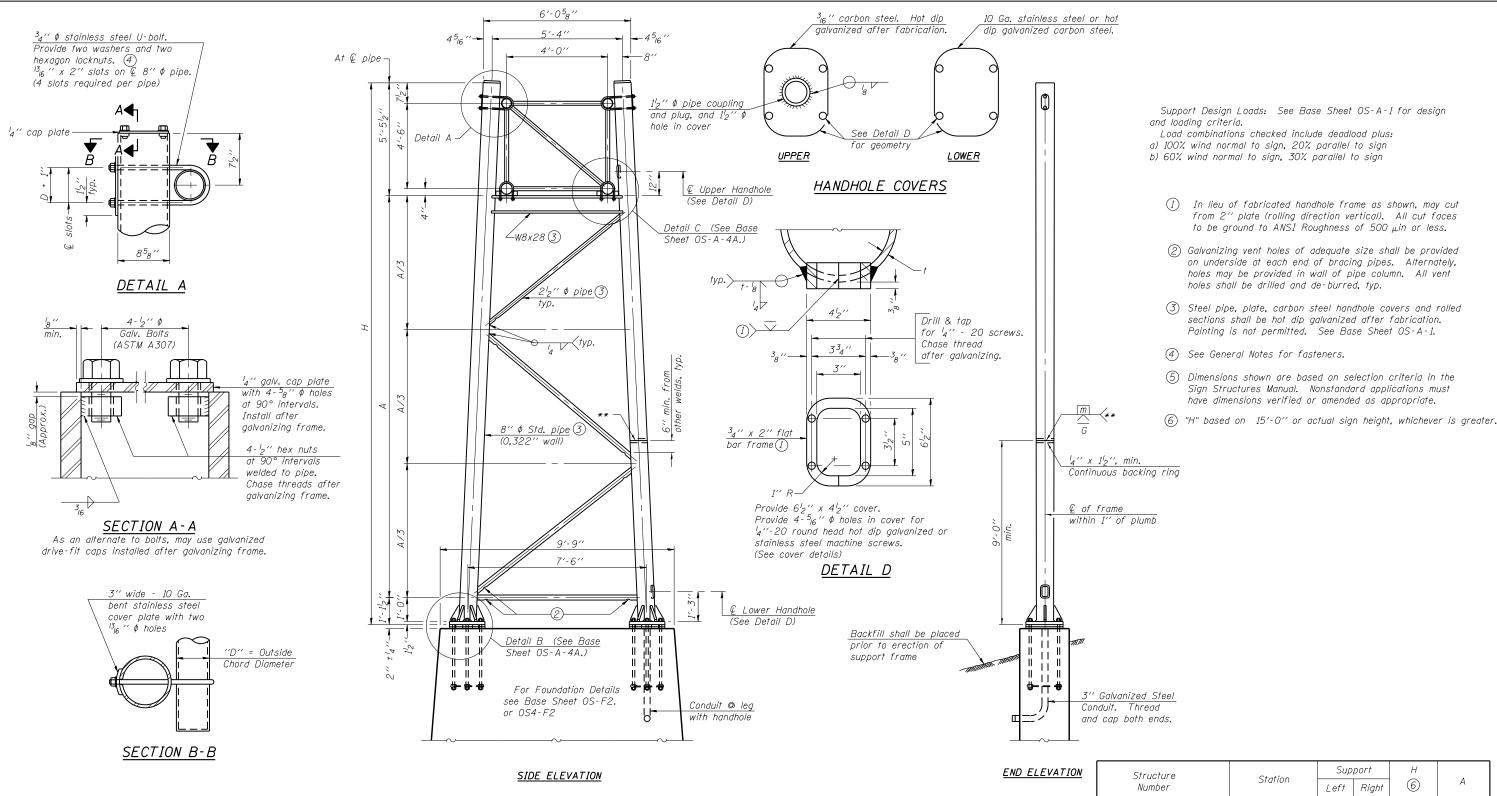
ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 \*To fit O.D. of Chord with maximum gap of  $\frac{1}{6}$ ".

COUNTY

COOK 821 185

CONTRACT NO. 60J16





#### Support Station 6 Left Right 1S016S171L000.0-004 26'-0" 19'-5" 114+60.00 25'-9" 19'-2" *1S016S171L000.0-004* 114+60.00 25'-5'2" 18'-10'2" X 26'-7'2" 20'-0'2" 1S016S171L000.0-005 57+03.33 *1S016S171L0*00.0-005 57+03.33

from 2" plate (rolling direction vertical). All cut faces

to be ground to ANSI Roughness of 500  $\mu$ in or less.

# 8" \$\phi PIPE TRUSS SUPPORT FRAME

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

0S-A-4

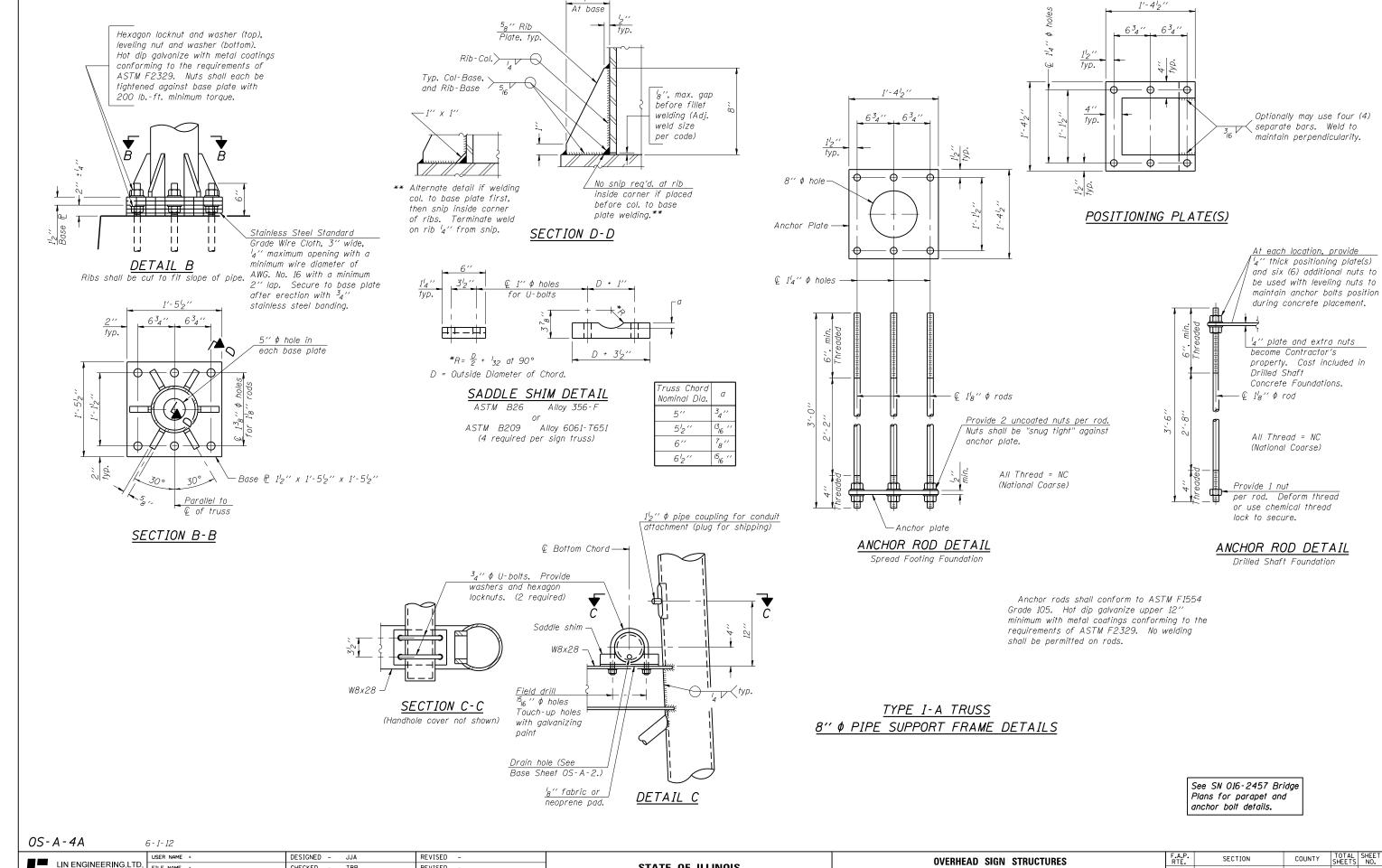
LIN ENGINEERING LTI Consulting Engineers

į.	6-1-12		
	USER NAME =	DESIGNED - JJA	REVISED -
ΓD.	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

OVERHEAD SIGN STRUCTURES	F.A.P. RTE.
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS	372/37
SHEET NO. 5 OF 10 SHEETS	

I	F.A.P. RTE.	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
I	372/373	2013-038B-R		соок	821	187	
Į	·			CONTRAC	T NO. 6	50J16	
ĺ	ILLINOIS FED. AID PROJECT						



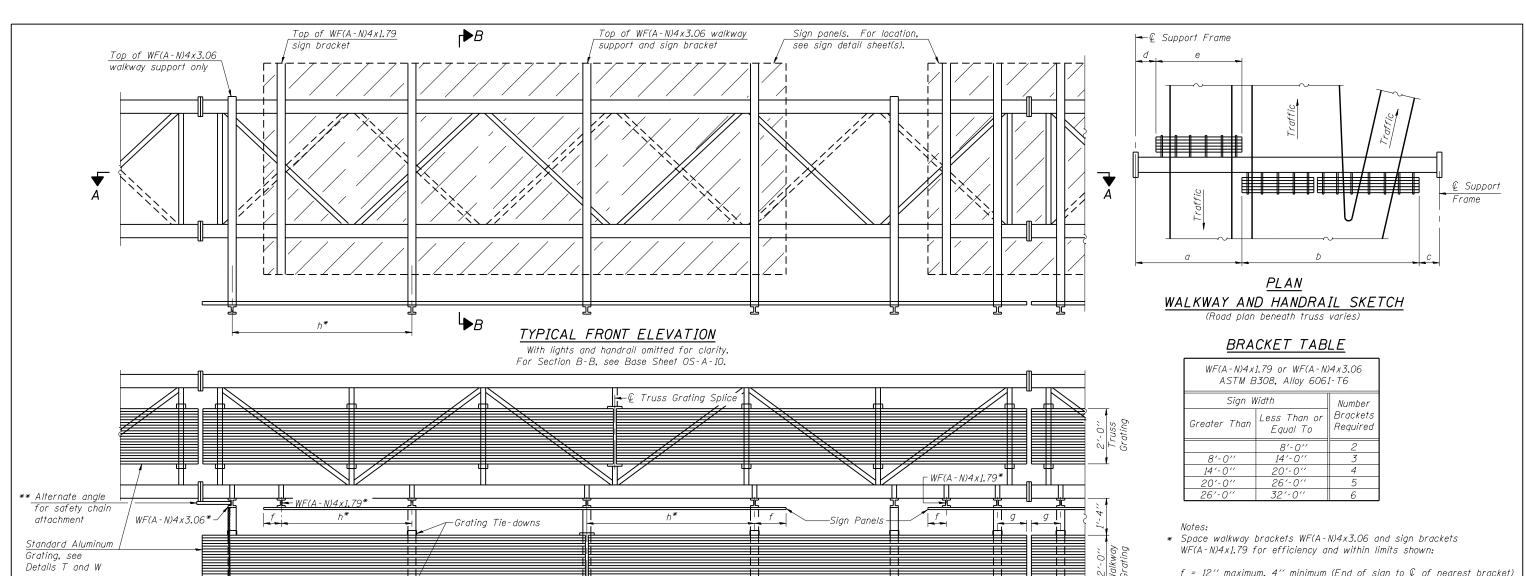
LIN ENGINEERING,LTD.
Consulting Engineers
Springfield, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SHEET NO. 6 OF 10 SHEETS

F.A.P. RTE. SECTION
372/373 2013-038B-R



- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket) g = 12" maximum, 4" minimum (End of walkway grating to Q of nearest support bracket)
- h = 6'-0'' maximum (Q to Q sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
- k = 2" maximum gap between adjacent walkway grating sections and handrail ends
- \*\* If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.

# SECTION A-A

└─ Handrail, see OS-A-11

∏— € Walkway Grating Splice

Details F and G

see OS-A-11

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

Safety Chain

Each end

	b	С	đ	е	Walkway Grating and Handrail Lengths
					_

← € Handrail Joint

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary  $\pm l_2^{\prime\prime}$  based on available standard widths.

OS-A-9

LIN ENGINEERING,LTD.

Consulting Engineers

Springfield Illinois

(	6 - 1 - 12		
	USER NAME =	DESIGNED - JJA	REVISED -
D.	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

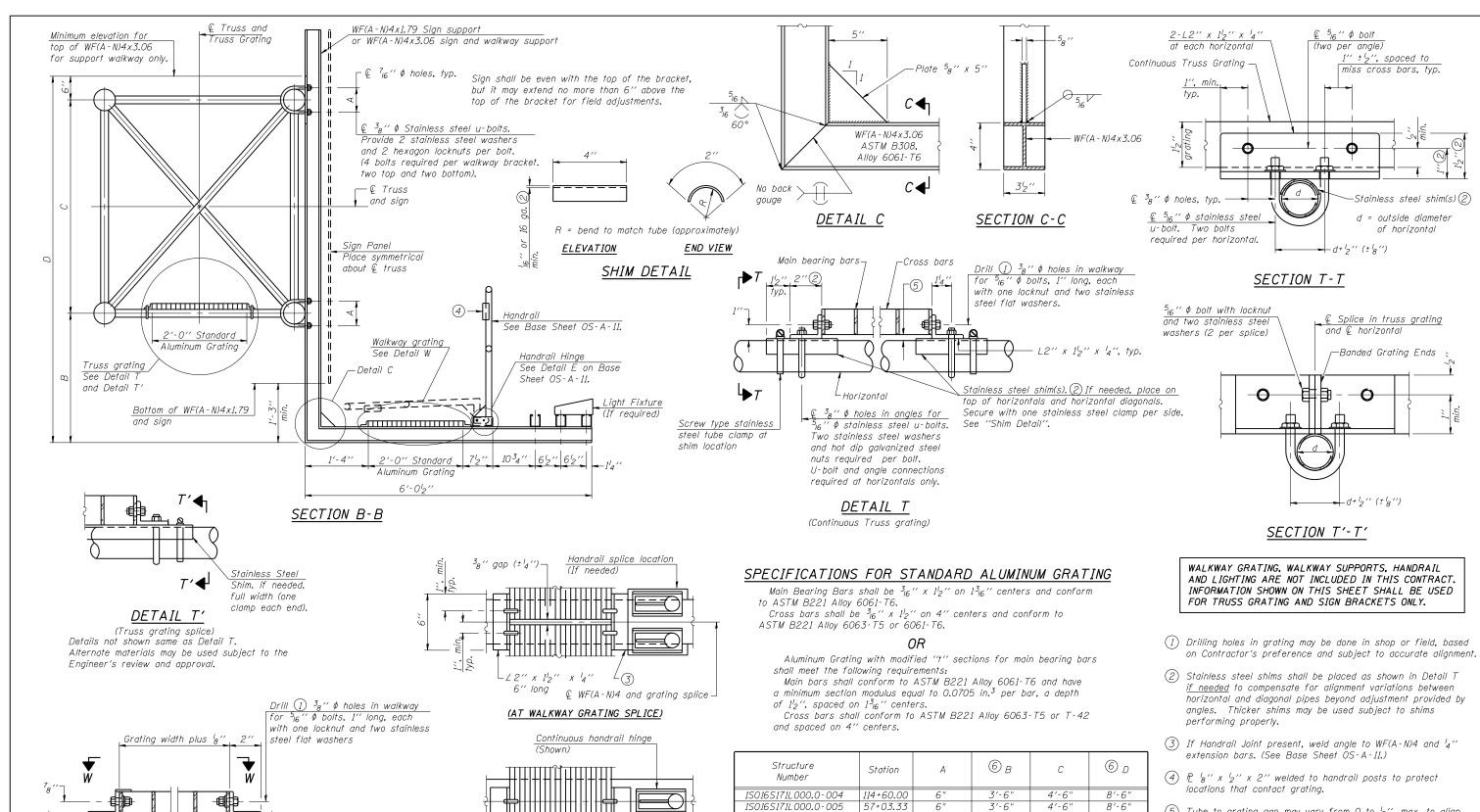
OVERHEAD ALUMINUM			
SHEET NO	0. 7 0	F 10 SHEI	ETS

H K--- H

Light fixture supports.

Length as required for lighting fixtures. (If required)

A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
2/373	2013-038B-R	COOK	821	189			
		CONTRACT	NO. 6	50J16			
	THE INDIS EED AID PROJECT						



- (5) Tube to grating gap may vary from 0 to  $l_2$ ", max. to align walkway, allow for camber, etc.
- (6) Based on actual height of tallest sign given on OS-A-1.

0S - A - 10

6 - 1 - 12

	U
LIN ENGINEERING,LTD.	F
Consulting Engineers	Р
Springfield, Illinois	-

TD.	USER NAME =	DESIGNED - JJA	REVISED -
	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET NO. 8 OF 10 SHEETS

F.A.P. SECTION COUNTY TOTAL SHEETS NO.
372/373 2013-038B-R COOK 821 190
CONTRACT NO. 60J16

### BAR LIST - EACH FOUNDATION

Bar		Number		Si	ize	Le	ngth	Shape
V4 (E	7	16		#	9	F 16	ess 5''	
#4	bar	spiral	(E)	-	see	Side	Elevation	วก

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

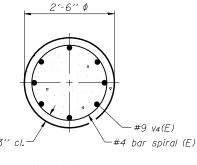
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



# DETAILS FOR 8" \$ SUPPORT FRAME TYPE I-A TRUSS



3" ♦ Galvanized Steel

Conduit. Thread

and cap both ends.

see Support Frame Detail Sheet.

END VIEW

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

Elevation

Elevation (Top)

# PLAN

7′-6′′

7'-6" € to €

Approved clamps for grounding\*

#6 copper wire or cable

 $\frac{3}{4}$ "  $\phi$  x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled

Shaft Concrete Foundations.

10'-0"

SIDE ELEVATION

2'-6" ¢

634"-

Gl I			Left Foundation			Right Fo	Right Foundation			Class DS		
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
1S016S171L000.0-004	114+60.00	621.26	603.76	3.00′	14.50′	17.50′	621.50	604.00	3.00′	14.50′	17.50′	12.7

# 0S4-F2

	_
LIN ENGINEERING,LTD.	-
 Consulting Engineers	Γ
Springfield, Illinois	H

bar spiral (E) at 6" pitch

8-#9 v 4E) bars

3 hoops minimum top and bottom

2'-6" ¢

L 11'₄′′

63/1-

6-1-12

634"

	USER NAME =	DESIGNED - JJA	REVISED -
D.	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - RPW	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - TBP	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

OVERHEAD DRILLED		STRUCTUR FT DETAILS	ES
SHEET NO	. 9 0	F 10 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
372/373	2013-038B-R	соок	821	191
		CONTRACT	NO. 6	50J16
	TILL INDIS EED.	AID PROJECT		



GSI Job No. 10025

# **SOIL BORING LOG**

Page 1 of 1

Date	8/21/13

	ROUTE FAP 373 (IL 171)	DES	SCR	IPTIOI	N	IL R	oute 171 from 47th St. to 55th St.	L0	ogg	ED BY	′k	(D
	SECTION		_ 1	OCAT	ION_	SW 1/	4, SEC. 2, TWP. T38N, RNG. R12E,	3 <sup>rd</sup> PM				
	COUNTY Cook D	RILLING	э МЕ	THOD		Но	llow Stem Auger HAMMER	TYPE	(	OME A	utoma	tic
	STRUCT. NO. Station SG-07  Station 114+24		D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.         n/a           Stream Bed Elev.         n/a           Groundwater Elev.:         First Encounter         Dry	_ ft _ ft	D E P T H	в∟оуу	U C S Qu	M O I S T
	Offset 0.60ft Right Ground Surface Elev. 627.60	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion Dry After Hrs.	_π _ft	(ft)	(/6'')	(tsf)	(%)
	6.0" TOPSOIL-black CLAY LOAM-brown & gray-very	627.10	× 4			9	SILTY CLAY LOAM-gray-dense to very dense (continued)					
	stiff to hard (Fill)			5			(			31		
				7	5.3	16				42		8
			<u> </u>	7	В					50/5"		
		â		3	0.0	10				23		
2/13			-5	5 7	3.6 B	16				23 21		9
10/3		2	-5	•				602.10	-25			
9							CLAY-gray-hard			1000		
00			_	3	2.2	40				6	4.0	20
3025				5 7	3.3 B	19				10 11	4.0 B	20
63/1			-						_	5.5		
G LO												
SE SE				2	0.0	40	E 1015 : 0 0001 B			4	4.5	-00
025 B			-	4 6	2.8 B	16	End Of Boring @ -30.0'. Boring backfilled with cuttings.	597.60		8 12	4.5 B	20
4)110		617.10	-10					097.60	-30			
Ė.	CLAY LOAM-brown & gray-hard	911119	_									
<u>2</u>			2	6		40			_			
PTB 1				6	5.9 B	12						
D I		614.60	-						-			
Œ.	SILTY LOAM-gray-very dense			n como								
ST A			-	18 27	-	6						
FR			- -15	42		0			-35			
I-17		,	-10						ა၁			
SCH,									$\Box$			
ENE SENE			-	44 50/4"		10			_			
025 E			-	30/4		10						
10/10		609.60	_						_			
3/20	SILTY CLAY LOAM-gray-dense to		2									
	very dense			33 50/2"		7						
H.			2	30/2		"			-			

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

benesch Alfred Benesch & Company
205 North Michigan Avenue, Sulte 2400
Chicago, Illinois 60601

\$FILEABBREV\$

Job No. 10093

USER NAME = \$USER\$	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 12/20/2013	CHECKED -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

TOTAL SHEET NO. 821 192 OVERHEAD SIGN STRUCTURE SECTION STA 114+60.00 2013-038B-R соок SOIL BORING LOGS CONTRACT NO. 60J16 SHEET NO. 10 OF 10 SHEETS

Geo Services, Inc. **SOIL BORING LOG** 

Page <u>1</u> of <u>1</u> Date 8/23/13

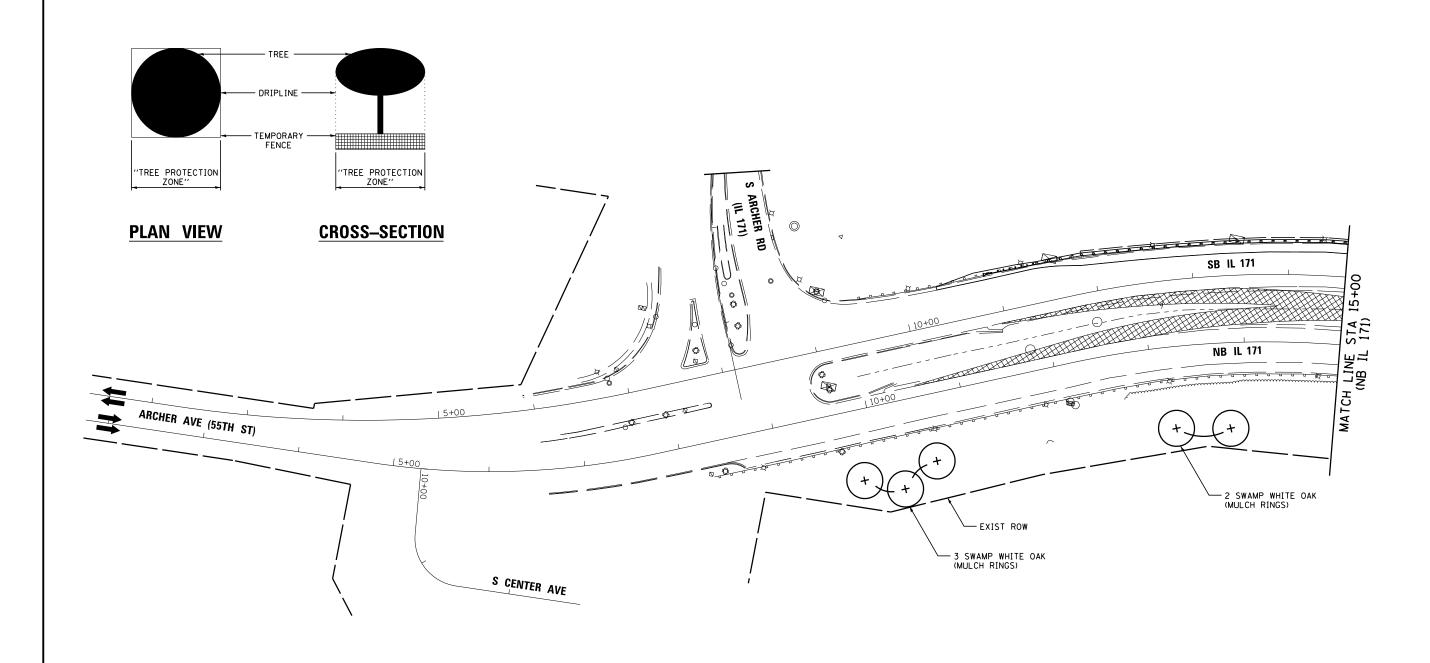
GSI Job No. \_\_\_10025

IL Route 171 from 47th St. to 55th St. LOGGED BY KD

ROUTE FAP 372 (IL 171)	DE	SCRIPT	ION	IL R	oute 171 from 47th St. to 55th St.	LC	OGGE	D BY	K	Œ
SECTION		_ LOC	ATION	SW 1/	4, SEC. 2, TWP. T38N, RNG. R12E	3 <sup>rd</sup> PM				
COUNTY Cook	DRILLING	METH	OD	HS	A/MUD ROTARY HAMMER	TYPE	CN	/IE Au	itoma	tic
STRUCT. NO.   Station   SG-08   Station   114+22   Offset   75.20ft Left		D E L P C T W H S	C S S Qu	M O I S T	Surface Water Elev.         n/a           Stream Bed Elev.         n/a           Groundwater Elev.:         First Encounter         Dry to 10.0'           Upon Completion         n/a	ft ft ft	P T H		U C S Qu	N C
Ground Surface Elev. 620.8 4.0" ASPHALT, 14.0" CONCRET		(ft) (/6	") (tsf)	(%)	After Hrs SILTY CLAY LOAM with	ft	(ft) (	16")	(tsf)	(%
4.0 ASPHALT, 14.0 CONCRET					FRACTURED ROCK-gray-very dense (continued)			0.511		
CLAY LOAM-dark brown, gray & black-stiff to hard (Fill)	619.30		4.5	17	-		- 5	0/5"		ş
								38		
		_5 6	3.9	18				0/5"		
			i			594.30		0/3"		
		4		19	Drillers Observation: Possible Boulder or Fractured Rock	554.50	1			
					Drillers Observation: Possible	592.30		0/0"		
		-10 5	10-000	19	Bedrock End Of Boring @ -30.0'. Boring backfilled with cuttings.	590.80	-30			
		4		20						
		50/								
		-15	4.5 P	16	-		-35			
CLAY LOAM-gray-hard	605.30	3	1				=			
		3		12						
SILTY CLAY LOAM with FRACTURED ROCK-gray-very	602.80	50/	3"							
dense			000 (00.00)	10						

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





- 1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED)
  AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN
  ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN
  APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT
  IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT
  HIS/HER EXPENSE.
- THE ENGINEER WILL CONTACT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT OF THE TREES AND PLUGS.



WETLAND



4" TOPSOIL, SEEDING, CLASS 2A



6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET



6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET



TEMPORARY PAVEMENT



TREE

ı	FILE NAME =	DESIGNED -	AAA	REVISED -	
ı	\D160J16-sht-IL171-1s-SB-01.dgn	DRAWN -	ТМВ	REVISED -	4
ı	USER NAME = tblank	CHECKED -	WS	REVISED -	7
ı	PLOT DATE = 6/23/2014	DATE -	6/23/2014	REVISED -	
٠					

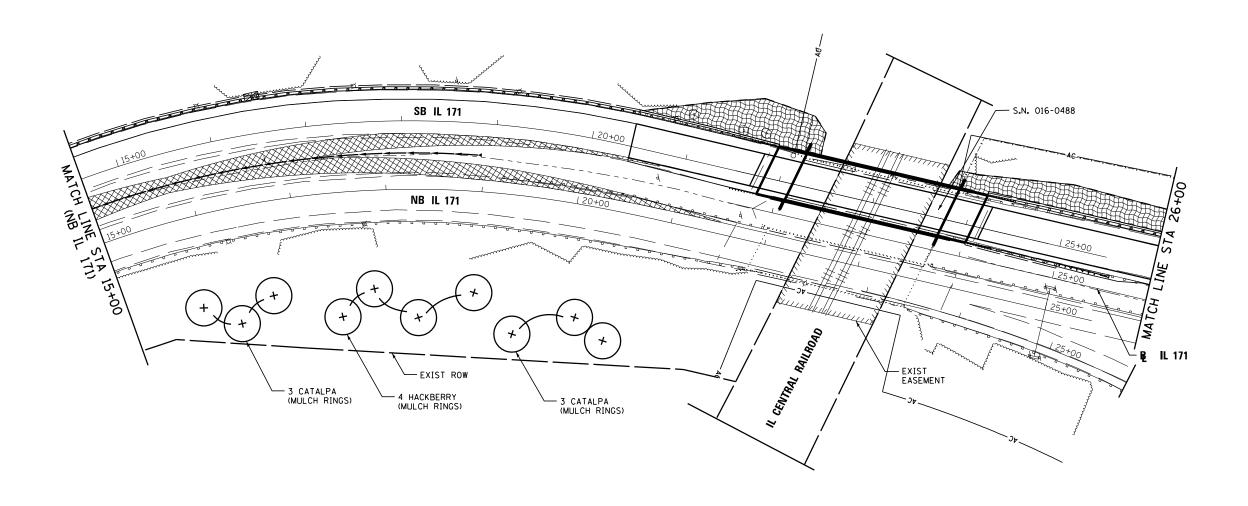


STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	LANDSCAPING PLANS									
	IL 171									
SCALE:	1''=50'	SHEET	1 0	7	SHEETS	STA.	10+36.43	TO STA. 15+00.00	┼──	

	TILINOIS FED. AT	D PROJECT		
		CONTRACT	NO. (	60J16
372/373	2013-038B-R	COOK	821	193
F.A. <b>P</b> RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.





- 1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED)
  AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN
  ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN
  APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT
  IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT
  HIS/HER EXPENSE.
- THE ENGINEER WILL CONTACT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT OF THE TREES AND PLUGS.



يطلق يطلق يطلنى

WETLAND

4" TOPSOIL, SEEDING, CLASS 2A

6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET



6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET



TEMPORARY PAVEMENT



TREE

FILE NAME =	DESIGNED	-	AAA	REVISED -	
\D160J16-sht-IL171-1s-SB-02.dgn	DRAWN	-	TMB	REVISED -	4
USER NAME = tblank	CHECKED	-	WS	REVISED -	₹
PLOT DATE = 6/23/2014	DATE	-	6/23/2014	REVISED -	

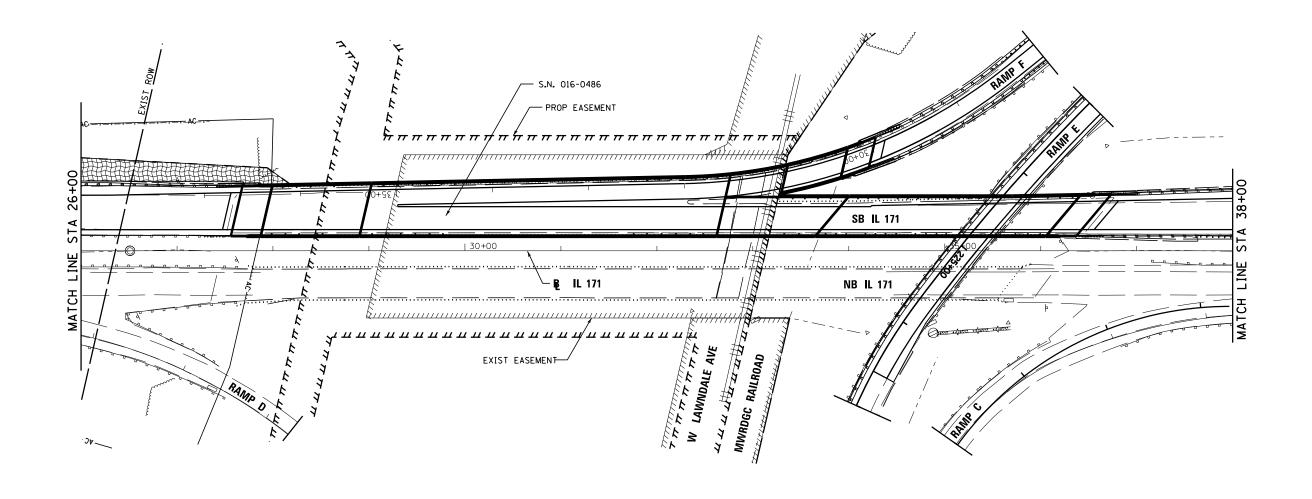


STATE OF ILLINOIS	S
DEPARTMENT OF TRANSPO	ORTATION

			LAND	osc	APING	PLAN:	s			F.A.P RTE.	SE
					IL 171					372/373	2013
SCALE:	1''=50'	SHEET	2 OF	7	SHEETS	STA.	15+00.00	TO STA.	26+00.00		

0		TILLINOIS FED. A	D PROJECT		
			CONTRACT	NO.	60J16
	372/373	2013-038B-R	COOK	821	194
	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.





- THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
- THE ENGINEER WILL CONTACT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT OF THE TREES AND PLUGS.

_	_	_		_	
.E	Æ	F	NI	n	
	u	_	ľ	v	



WETLAND



4" TOPSOIL, SEEDING, CLASS 2A



6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET



6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET



TEMPORARY PAVEMENT



TREE

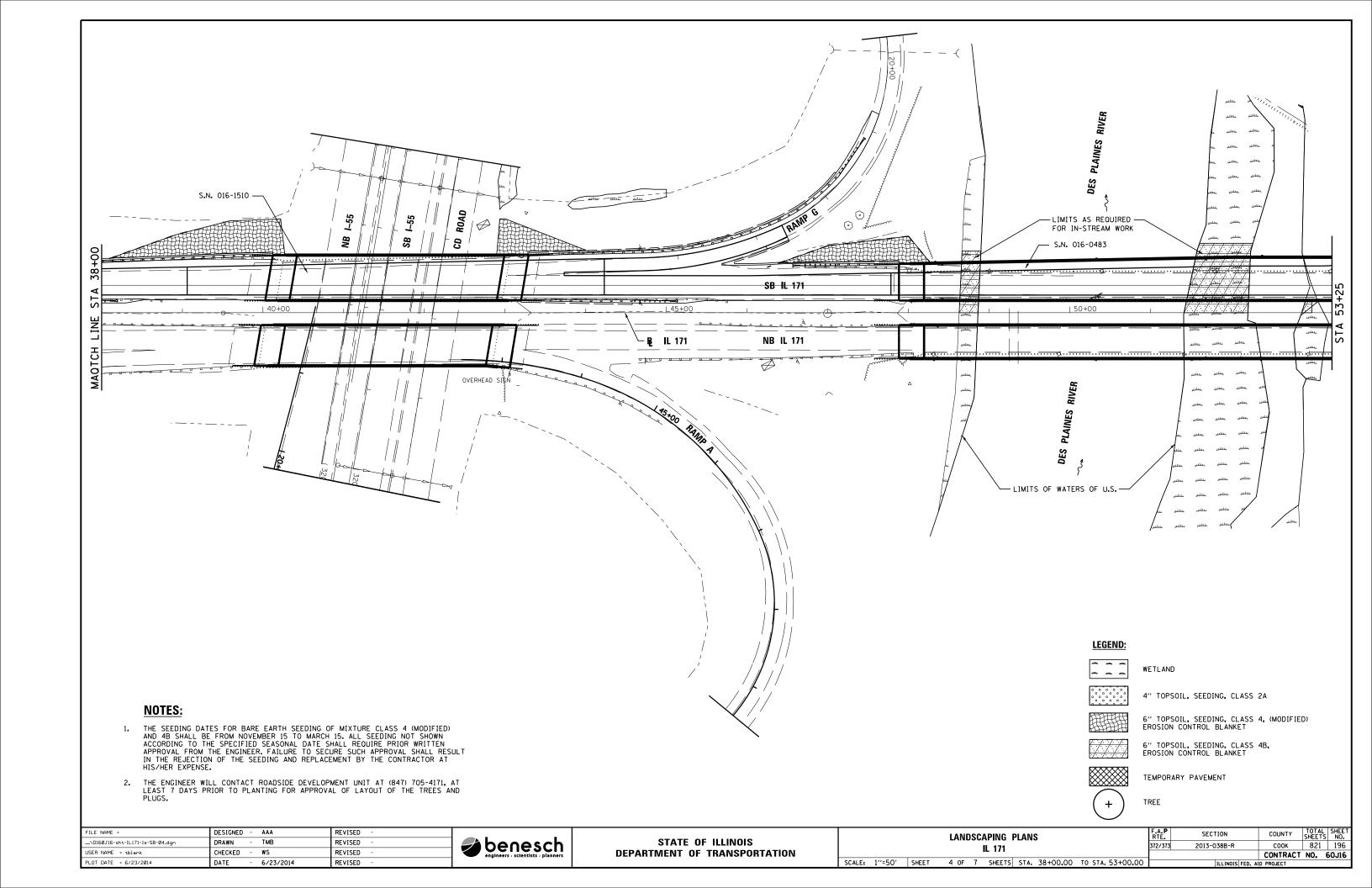
FILE NAME =	DESIGNED - AAA	REVISED -
\D160J16-sht-IL171-1s-SB-03.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - WS	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -

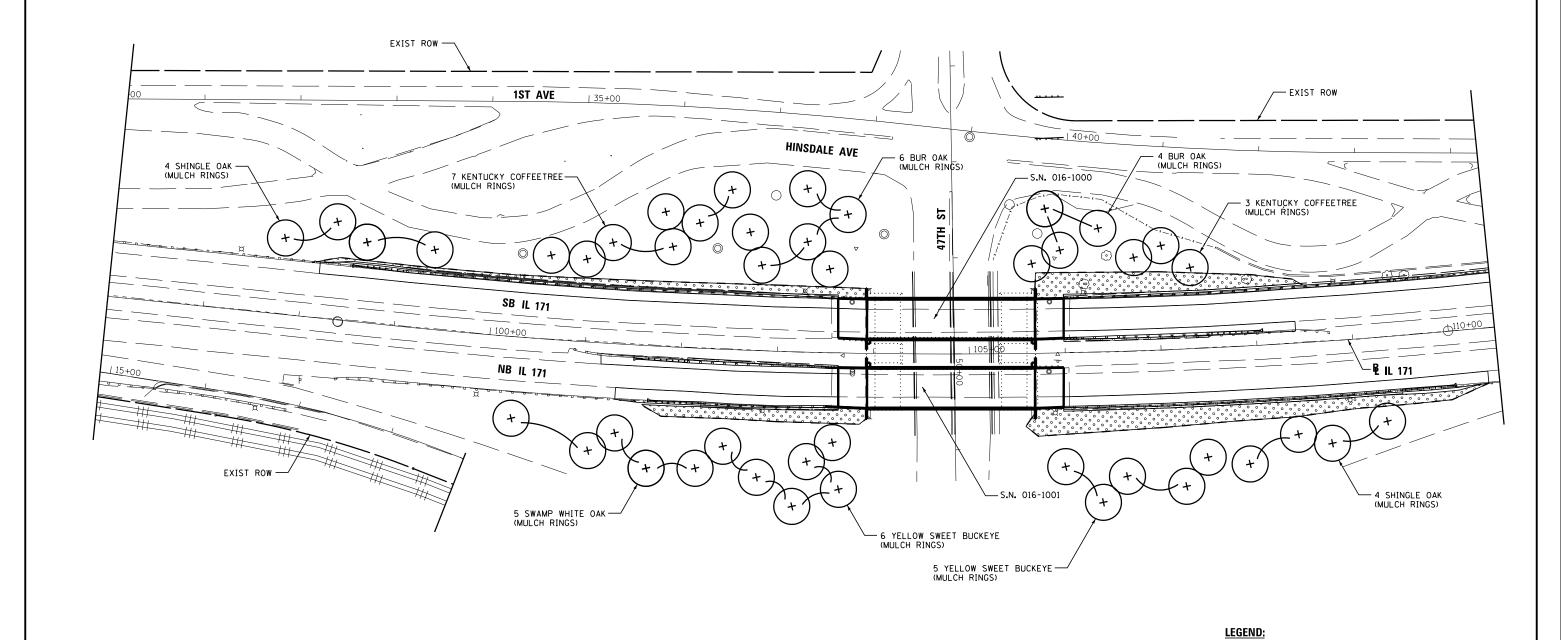


STATE OF	ILLINOIS
DEPARTMENT OF T	TRANSPORTATION

			LA	NDS	CAPING IL 171	PLAN	S		
SCALE:	1''=50'	SHEET	3 (	)F 7	SHEETS	STA.	26+00.00	TO STA	38+00.0

	ILLINOIS	FED. AI	D PROJECT		
			CONTRACT	NO. (	50.
372/373	2013-038B-R	COOK	821	1	
F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SH



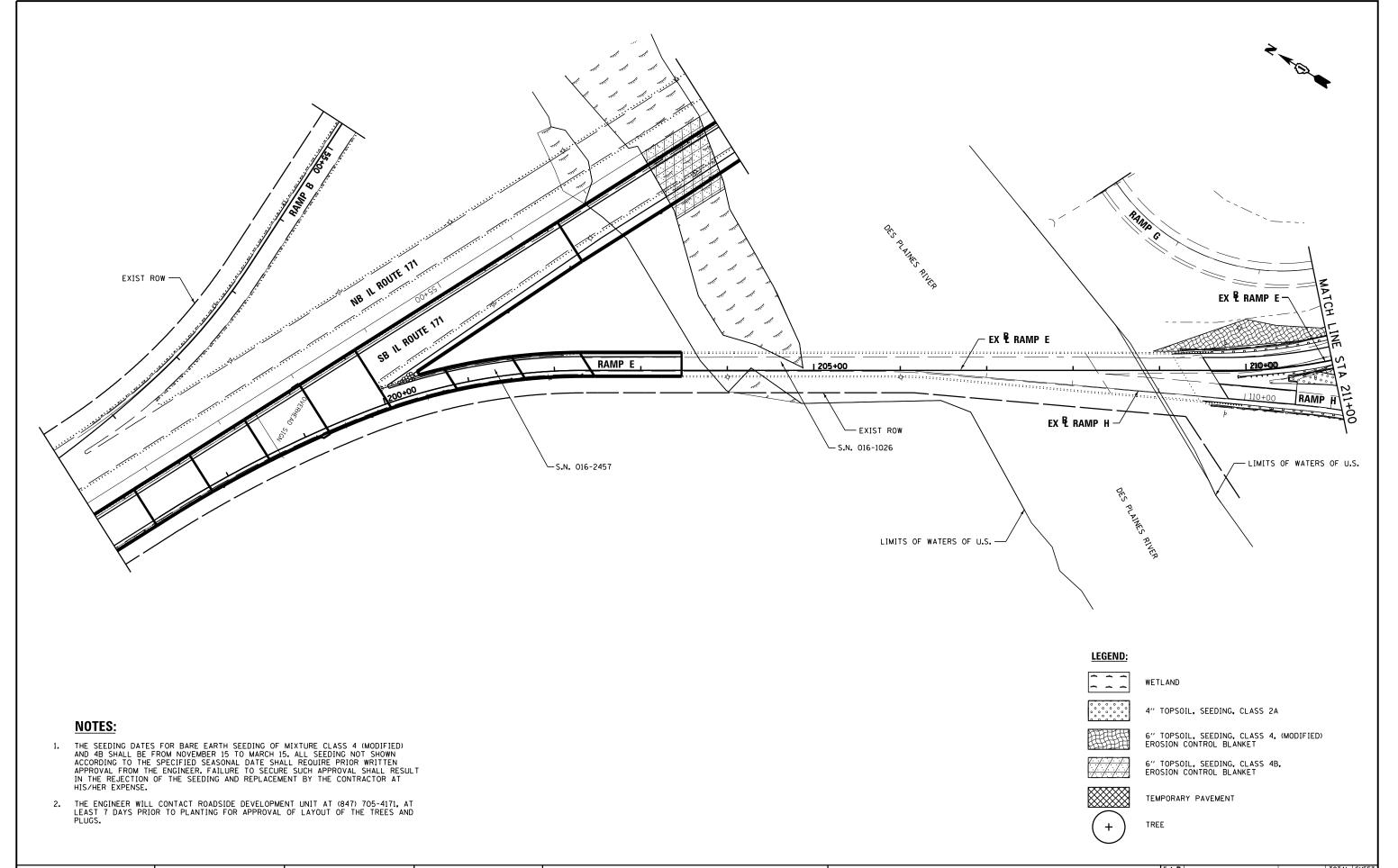


- 1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER, FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
- THE ENGINEER WILL CONTACT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT OF THE TREES AND PLUGS.

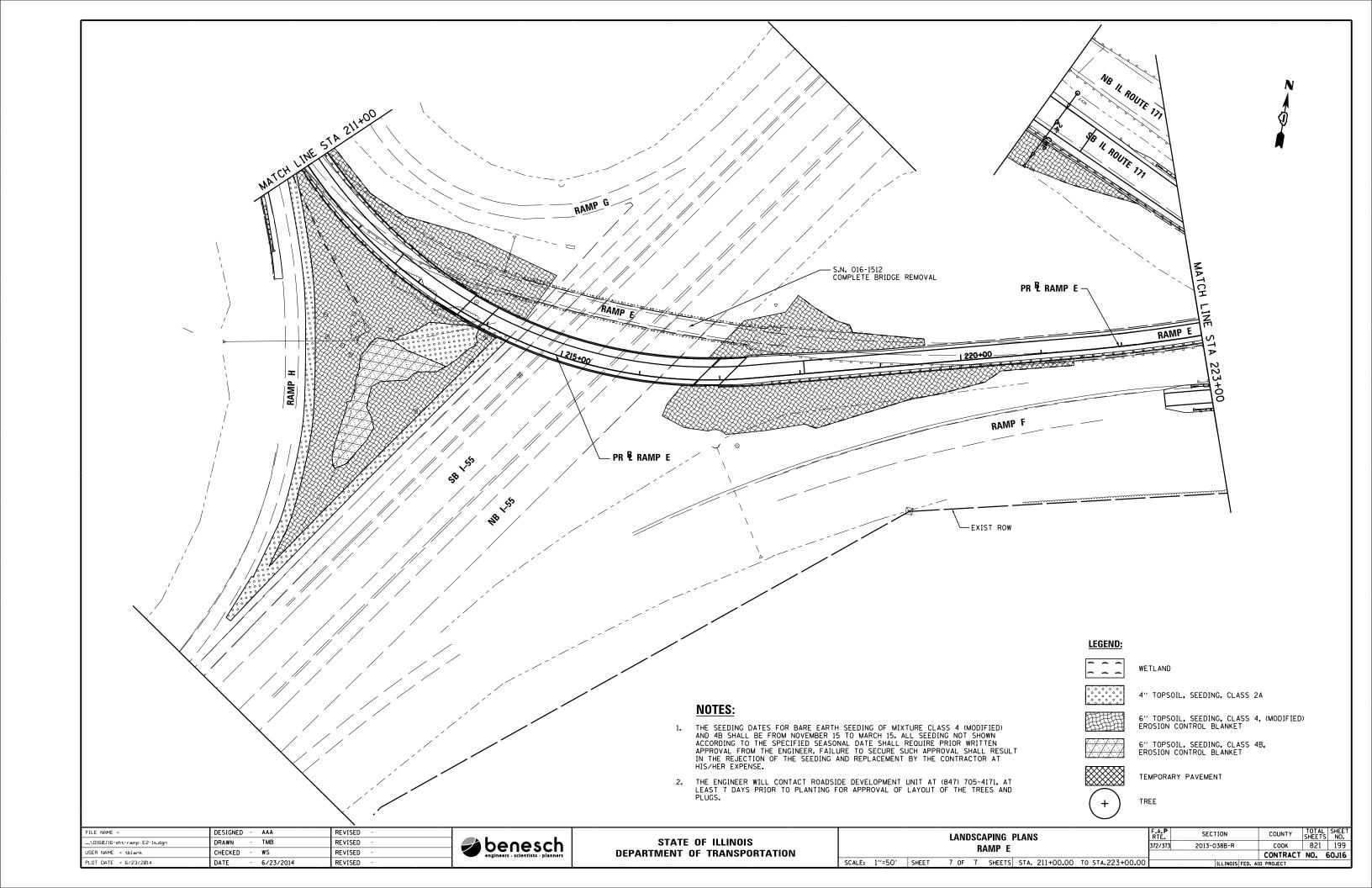
CTATE OF HAINOIC	LANDSCAPING PLANS	F.A.P RTE. SECTION COUNTY TOTAL SHEETS NO.
	+	TREE
		TEMPORARY PAVEMENT
		6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET
		6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET

4" TOPSOIL, SEEDING, CLASS 2A

FILE NAME =	DESIGNED - AAA	REVISED -				LANDSCAPING PLANS	RIF.	SECTION	COUNTY	SHEETS N	10.
\D160J16-sht-IL171-ls-SB-08.dgn	DRAWN - TMB	REVISED -	🖊 🚅 benesch 🛭	STATE OF ILLINOIS		IL 171	372/373	2013-038B-R	соок	821 1	97
USER NAME = tblank	CHECKED - WS	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION		IL 1/1			CONTRACT	T NO. 60J	J16
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -	,		SCALE: 1"=50" SHEET	5 OF 7 SHEETS STA. 96+00.00 TO STA.110+00.00		ILLINOIS FED. A			



FILE NAME =	DESIGNED - AAA	REVISED -				LANDSCAPING PLANS	RTÉ.	SECTION	COUNTY	SHEETS	SHEE!
\D160J16-sht-ramp E1-ls.dgn	DRAWN - TMB	REVISED -	🛘 🚄 benesch 🖠	STATE OF ILLINOIS		RAMP E	372/373	2013-038B-R	соок	821	198
USER NAME = tblank	CHECKED - WS	REVISED -	engineers - scientists - planners	DEPARTMENT OF TRANSPORTATION		naivir L			CONTRACT	T NO.	60J16
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50" SHEET	6 OF 7 SHEETS STA. 209+59.86 TO STA. 211+00.0	0	ILLINOIS FED. A	AID PROJECT		

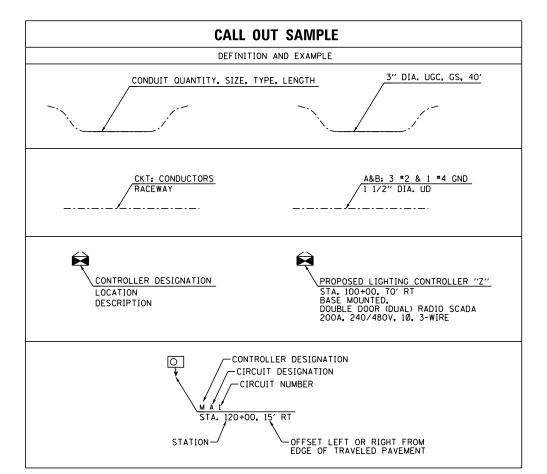


110	GHTING AND ELECTRICAL LEGEND
SYMBOL	DESCRIPTION
E	EXISTING HIGH MAST LIGHTING TOWER UNIT 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
R	EXISTING HIGH MAST LIGHTING TOWER UNIT TO BE REMOVED, 120 FT. 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
○ E	EXISTING UNDERPASS LUMINAIRE
○ R	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
$\bowtie$	EXISTING BASE MOUNTED LIGHTING CONTROLLER, TO BE REMOVED
ф	EXISTING ELECTRIC UTILITY POLE
J <sub>E</sub>	EXISTING JUNCTION BOX
——— R ———	EXISTING CONDUIT TO BE REMOVED
— - E - —	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED
- <del>5.5.5.</del> 6-	EXISTING SIGN LIGHTING
RRRR D.D.D.D	EXISTING SIGN LIGHTING TO BE REMOVED
○— <u>E</u>	EXISTING LIGHT POLE
0—R	EXISTING LIGHT POLE, TO BE REMOVED
	EXISTING NAVIGATION LIGHT
	EXISTING NAVIGATION LIGHT, TO BE REMOVED
⊶	PROPOSED TEMPORARY LIGHTING UNIT, SIZE AND TYPE AS NOTED
<b>∞</b> □	PROPOSED LIGHTING UNIT MOUNTED ON BREAKAWAY TRANSFORMER BASE, 47.5FT. M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 15FT DAVIT ARM U.N.O.
∘—	PROPOSED STRUCTURE MOUNTED LIGHTING UNIT, 47.5 FT. M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 6FT DAVIT ARM U.N.O.
	PROPOSED NAVIGATION LIGHT, RED 180 DEGREE
	PROPOSED NAVIGATION LIGHT, GREEN 360 DEGREE
· ·	PROPOSED UNDERPASS LUMINAIRE, PIER MOUNT, 100W HPS TYPE M-C-IV
	PROPOSED LIGHTING CONTROLLER, SIZE AND TYPE AS NOTED
•	PROPOSED ELECTRIC UTILITY POLE
J	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN EXPOSED OR EMBEDDED CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
— ı·	ELECTRIC GROUND ROD

# INDEX OF SHEETS



- SCHEDULE OF QUANTITIES
- EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN 3-13
- PROPOSED LIGHTING PLAN IL 171 14-23
- PROPOSED LIGHTING PLAN RAMP E 24-25
- 26 UNDERPASS LIGHTING PLAN 47TH STREET
- 27 LIGHTING CONTROLLER "M" WIRING DIAGRAM
- 28 LIGHTING CONTROLLER "N" WIRING DIAGRAM
- 29 LIGHTING CONTROLLER "V" WIRING DIAGRAM
- 30 LIGHTING CONTROLLER "Z" WIRING DIAGRAM
- 31-33 CONDUIT TRANSITION DETAILS
- NAVIGATION LIGHTING DETAILS

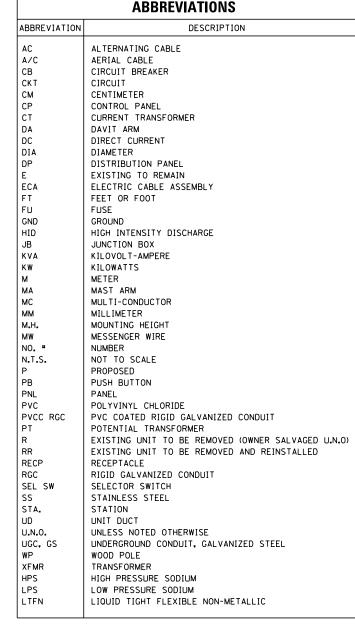


# **IDOT-D1 STANDARDS:**

DRAWING NO. 35	STANDARD NO. BE-205A	TITLE LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO	SCADA
36	BE-205B	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO	SCADA
37	BE-205C	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO	SCADA
38	BE-205D	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO	SCADA
39	BE-215	LIGHTING CONTROLLER, SINGLE DOOR	
40	BE-220	ELECTRIC SERVICE INSTALLATION, AERIAL, REMOTE DISCONNECT	
41	BE-305	LIGHT POLE FOUNDATION, METAL	
42	BE-330	LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL, 15" (381 MM) BOLT C	IRCLE
43	BE-410	DAVIT LIGHT POLE, 47'-6" (14.478 M) MOUNTING HEIGHT	
44	BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY	
45	BE-702	MISC. ELECTRICAL DETAILS, SHEET A	5. THE
46	BE-703	MISC. ELECTRICAL DETAILS, SHEET B	PRI
47	BE-800	TEMPORARY LIGHT POLE DETAILS	6. NO
48	BE-801	TEMPORARY AERIAL CABLE INSTALLATION	WIT TO
49	BE-902	PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS	ROA

# **GENERAL NOTES:**

- 1. ELECTRICAL WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST
- 2. CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER IDOT-D1 STANDARD DRAWING NO. BE-703 AT NO ADDITIONAL COST.
- 3. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY, REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE PAY ITEM REQUIRING THIS WORK.



- 5. THE CONTRACTOR SHALL CALL NEIL THAKKAR AT (708) 524-2145 TO TRANSFER THE MAINTENANCE PRIOR TO ANY WORK PERFORMED ON LIGHTING.
- 6. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER. ALL EXISTING LIGHT POLES SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS. SPECIFIC LIGHT POLES SHALL BE REMOVED AND REPLACED PER THE PLANS BY THE CONTRACTOR DURING SPECIFIC STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- 7. THE SUGGESTED CONSTRUCTION STAGING FOR LIGHTING WORK IS AS FOLLOWS:

- STAGE 1A:
   INSTALL NEW LIGHTING CONTROLLER "V" AND ELECTRIC SERVICE.
   REMOVE AND REPLACE SOUTHBOUND LIGHTING SOUTH OF THE CANAL.
   REMOVE AND REPLACE NAVIGATION LIGHTING.
   INSTALL TEMPORARY LIGHTS FOR NORTHBOUND IL-171 JUST NORTH OF THE I-55 INTERCHANGE.
   CUTOVER LIGHTING CIRCUITS DURING DAY TO AVOID OUTAGES AT NIGHT IN CROSSOVER AREA AND TO THE EAST.

- STAGE 1B:
   SOUTHBOUND ROADWAY AND NAVIGATION LIGHTING SOUTH OF THE CANAL SHALL BE OPERATIONAL.
   INSTALL TEMPORARY CONNECTION FOR SOUTHBOUND LIGHTING NEAR RAMP E GORE.
   INTERCEPT EXISTING CIRCUIT FEED TO SOUTHBOUND LIGHTING AT BRIDGE NEAR STA. 48+00.
   REMOVE AND REPLACE SOUTHBOUND LIGHTING CONCURRENT WITH BRIDGE WORK FOR S.N. 016-0483.
   LOCATE EXISTING UNDERGROUND LIGHTING CABLES AT THE 47TH STREET INTERCHANGE.
   INSTALL PROPOSED 47TH STREET INTERCHANGE LIGHTING.
   CUTOVER LIGHTING CIRCUITS DURING DAY TO AVOID OUTAGES AT NIGHT.
   REMOVE EXISTING LIGHTING AS PROPOSED LIGHTING BECOMES OPERATIONAL.

# REMOVE AND REPLACE SOUTHBOUND LIGHTING CONCURRENT WITH BRIDGE WORK FOR S.N. 016-2457. REMOVE AND REPLACE SOUTHBOUND LIGHTING NEAR THE JOLIET ROAD INTERCHANGE. INSTALL CONDUIT SYSTEMS AND UNDERPASS LIGHTING FOR THE IL-171 BRIDGES OVER 47TH STREET.





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

	LEGEND, ABBREVIATIONS,		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL NOTES & INDEX OF DRAWINGS		372/373	2013-038B-R	соок	821	200
				CONTRACT	NO.	60J16
	SCALE:   SHEET 1 OF 49 SHEETS  STA. TO STA.		ILLINOIS FED. AID PROJECT			