

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAI ROUTE 55 (I 55)
SECTION D6 SPRING RD REPAIR 2014-2

MILL, RESURFACE
LOGAN/SANGAMON COUNTY

C-96-073-14

F.A.I. RTE. 55	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ILLINOIS	19	1
CONTRACT NO. 72H02				

* D6 SPRING ROAD REPAIR 2014-2
 ** LOGAN/SANGAMON COUNTIES

INDEX OF SHEETS

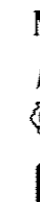
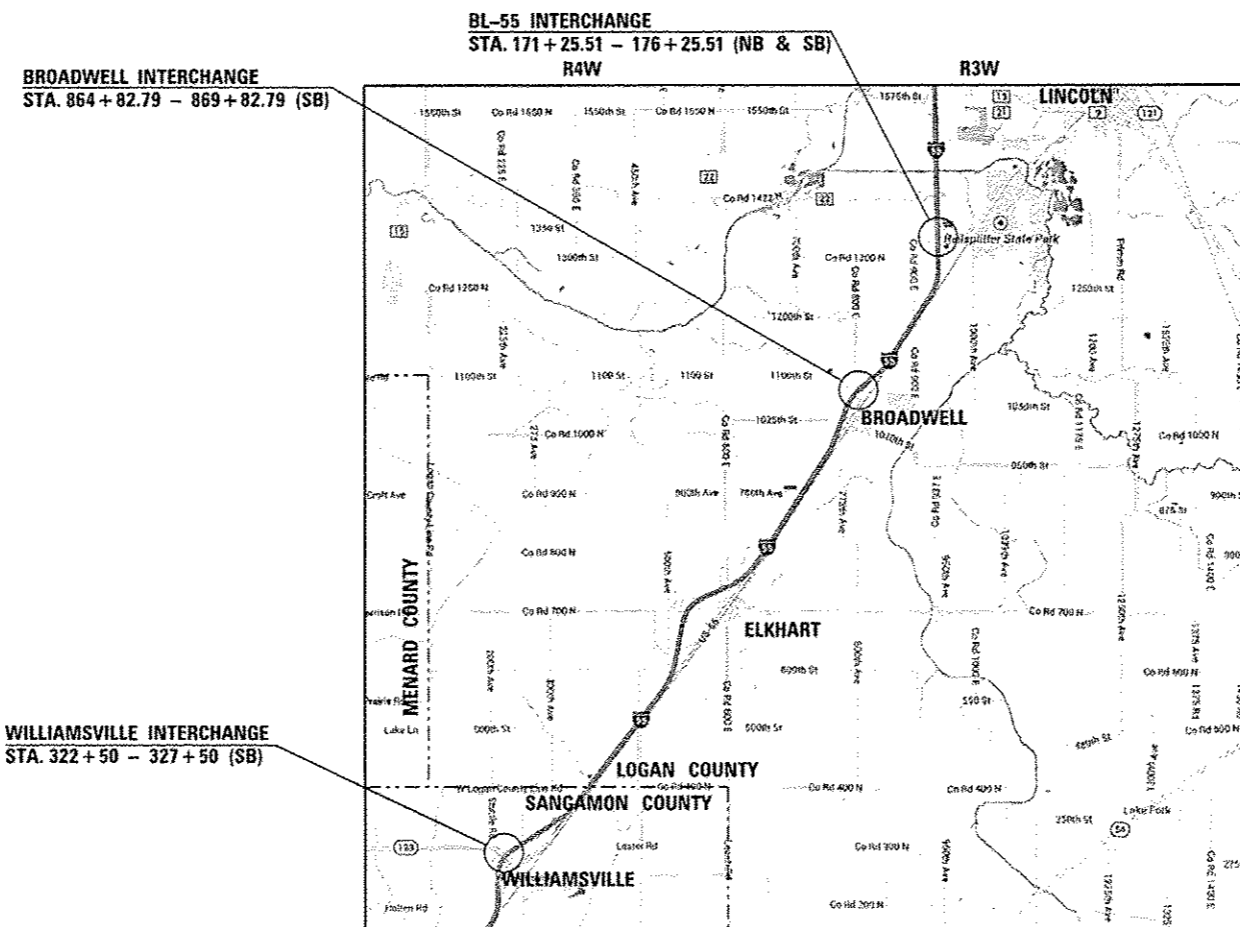
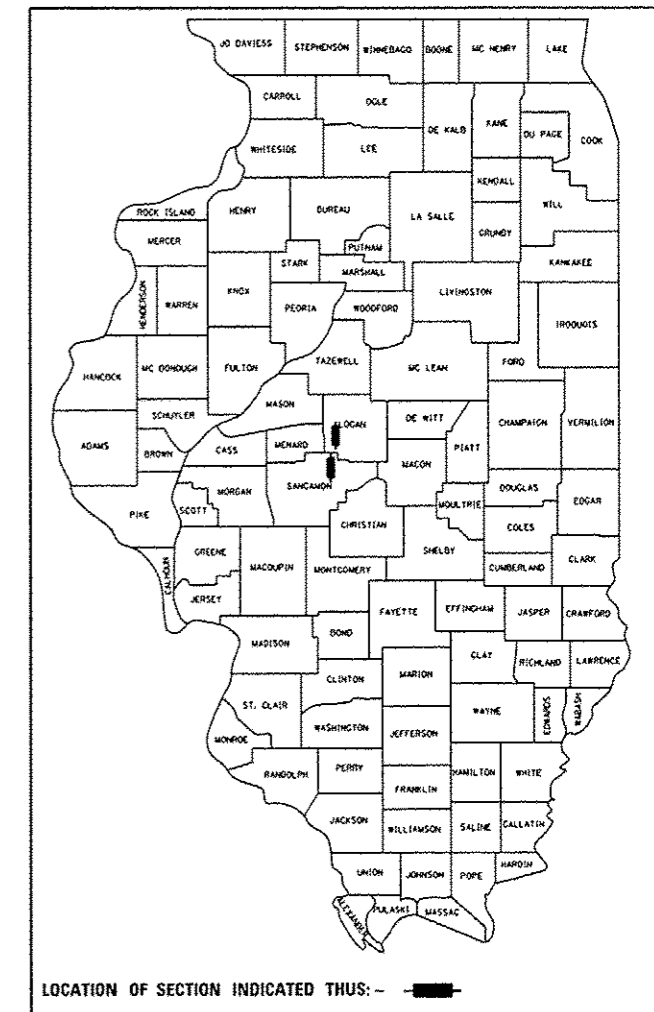
1. COVER SHEET
2. GENERAL NOTES, COMMITMENTS & STANDARDS
3. PROJECT LOCATIONS
4. - 5. SUMMARY OF QUANTITIES
6. - 7. TYPICAL SECTIONS
8. - 10. PLAN SHEETS

WILLIAMSVILLE
 ADT (2013) = 29,900
 PV = 68%
 SU = 8.7%
 MU = 22.4%

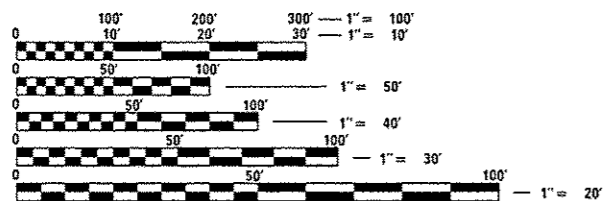
BROADWELL
 ADT (2013) = 29,900
 PV = 76.0%
 SU = 3.3%
 MU = 20.7%

BL-55
 ADT (2013) = 29,900
 PV = 76.2%
 SU = 3.1%
 MU = 20.7%

D-96-073-14



SEE SHEET NO. 3 FOR EXPANDED VIEW OF PROJECT LOCATIONS



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

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

PROJECT ENGINEER: VINCENT J. MADONIA (217) 785-9046
PROJECT MANAGER: VICTOR T. YOUNG (217) 524-0472

GROSS LENGTH = 1500 FT. = 0.28 MILE
 NET LENGTH = 1500 FT. = 0.28 MILE

CONTRACT NO. 72H02

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED April 17 20 14

Roger Z. Orsini
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 20 14
John D. Baranzelli, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 14
Chris Osman, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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GENERAL NOTES

1. THE STANDARDS INCLUDED IN THE BACK OF THESE PLANS SHALL APPLY TO THIS PROJECT.
2. THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STARNDARD 000001-06 IF THERE IS A CONFLICT.
3. EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO RESURFACING.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE CONTRACTOR SHALL PROTECT UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

J.U.L.I.E. 1-800-892-0123

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, BY CONTACTING THE UTILITY COMPANY DIRECTLY.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN SUBMITTING HIS BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY THE SAME.

THE INFORMATION AND DATA SHOWN OR INDICATED ON THESE IMPROVEMENT PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AND UTILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES OR BY OTHERS, FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT UTILITIES CAN BE GIVEN NOTICE. NO GUARANTEE IS IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA; AND CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR (i) REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, (ii) VERIFYING IF ANY CONFLICTS EXIST WITH THE PROPOSED WORKED AND UNDERGROUND FACILITIES AND UTILITIES SHOWN OR INDICATED ON THE IMPROVEMENT PLANS; (iii) COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES DURING CONSTRUCTION, AND (iv) THE SAFETY AND PROTECTION OF ALL SUCH UNDERGROUND FACILITIES AND UTILITIES AND REPAIR ANY DAMAGE THERETO RESULTING FROM THE WORK AT HIS EXPENSE.

6. FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
7. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
8. ALL AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING, AS DIRECTED BY THE ENGINEER. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE. THESE AREAS WILL NOT BE MEASURED FOR PAYMENT.
9. THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OF BASE ON WHICH THE HMA MIXTURE IS PLACED.
10. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

GENERAL NOTES (CONT.)

11. APPLICATION RATES FOR VARIOUS PAVING ITEMS ARE AS FOLLOWS:
 HOT MIX ASPHALT:
 BITUMINOUS MATERIALS (PRIME COAT) 0.00038 TON/SY PAVED SURFACES
 0.0019 TON/SY AGGREGATE SURFACES
 LEVELING BINDER AND HOT-MIX ASPHALT SURFACE COURSE 112 LBS/SY*IN
 AGGREGATES:
 AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL) 2.05 TONS/CY
12. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS/HER OPERATIONS.
13. HOT-MIX ASPHALT RESURFACING OF THE EXISTING PAVEMENT AND SHOULDERS SHALL BE DONE IN A MANNER THAT PROVIDES A MINIMUM VERTICAL CLEARANCE OF 16.0' AT ALL OVERHEAD STRUCTURES. THE MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM OUTSIDE TO OUTSIDE OF THE PAVED SHOULDERS.

PRIOR TO RESURFACING ACTIVITIES, THE CONTRACTOR AND THE ENGINEER SHALL VERIFY AND DOCUMENT THE EXISTING MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF NECESSARY, THE ENGINEER WILL MAKE ADJUSTMENTS TO THE RESURFACING THICKNESS SHOWN ON THE PLANS. UPON COMPLETION OF THE RESURFACING, THE ENGINEER WILL MEASURE AND DOCUMENT THE MINIMUM VERTICAL CLEARANCE AT ALL OVERHEAD STRUCTURES. IF THE MINIMUM VERTICAL CLEARANCE IS LESS THAN 16'-0", THE CONTRACTOR SHALL REMOVE AND REPLACE THE BITUMINOUS CONCRETE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THE WORK OR ANY INCONVENIENCE CAUSED BY COMPLYING WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR RESURFACING PAY ITEMS IN THIS CONTRACT.

COMMITMENTS

1. THE RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES.

MIXTURE REQUIREMENTS

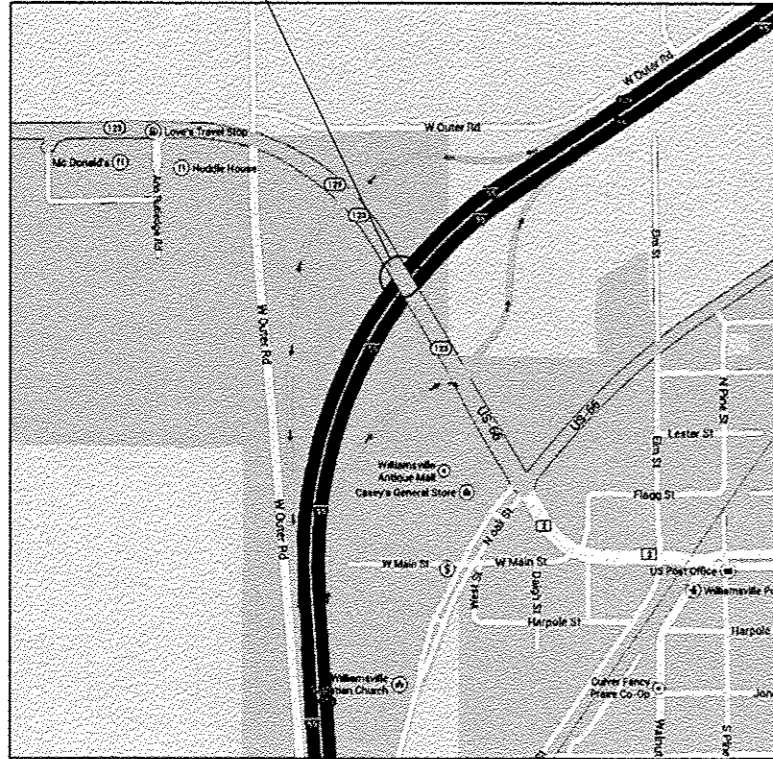
LOCATIONS	I-55	I-55
MIXTURE USE(S):	HMA SURFACE	HMA LEVELING BINDER
PG:	SBS PG 70-22	SBS PG 70-22
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N90
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5
FRICTION AGGREGATE:	MIX D	N/A
QUALITY MANAGEMENT:	OC/OA	OC/OA

HIGHWAY STANDARDS

- 000001-06
- 001001-02
- 001006
- 701400-07
- ~~701401-08~~
- 701406-08
- 701411-08
- 701428
- 701446-05
- 701901-03
- 780001-04
- 781001-03

DISTRICT SIX	
EXAMINED <u>APRIL 16th</u> 20 <u>14</u>	
<i>John C. Nyanang</i>	
OPERATIONS ENGINEER	
EXAMINED <u>APRIL 17</u> 20 <u>14</u>	
<i>John Z. [Signature]</i>	
PROJECT IMPLEMENTATION ENGINEER	
EXAMINED <u>April 16</u> 20 <u>14</u>	
<i>Jeffrey P. Myers</i>	
PROGRAM DEVELOPMENT ENGINEER	

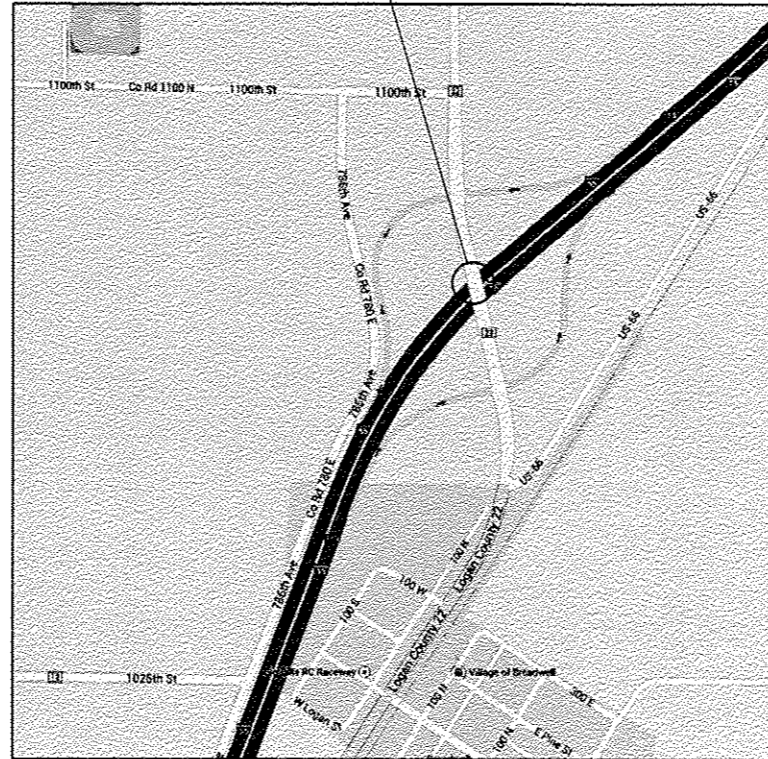
PROJECT LOCATION



MILE MARKER 109

SOUTHBOUND LANE I-55 OVERHEAD
NEAR WILLIAMSVILLE, IL.
STA. 332+50 - 327+50

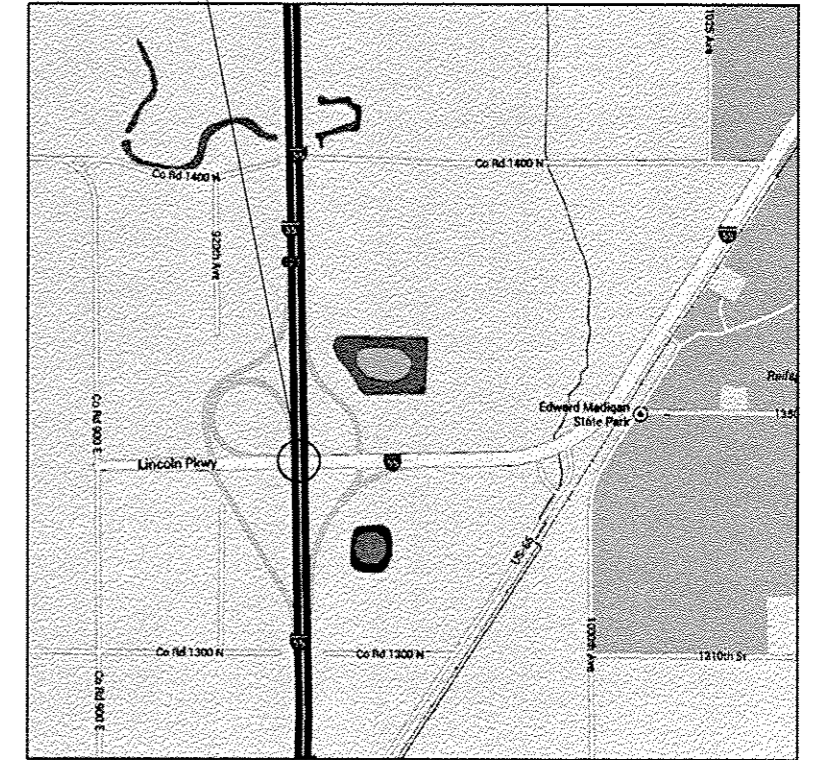
PROJECT LOCATION



MILE MARKER 119

SOUTHBOUND LANE I-55 OVERHEAD
NEAR BROADWELL, IL.
STA. 864+82.79 - 869+82.79

PROJECT LOCATION



MILE MARKER 123

NORTHBOUND & SOUTHBOUND LANES
I-55 OVERHEAD NEAR LINCOLN, IL.
STA. 171+25.51 - 176+25.51

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT LOCATIONS	
SCALE:	SHEET OF SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	**	10	3
CONTRACT NO. 72H02				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE		
				SANGAMON COUNTY	LOGAN COUNTY	
				CONSTRUCTION CODE		
				ROADWAY 0005	ROADWAY 0005	ROADWAY 0005
				WILLIAMSVILLE	BROADWELL	BUS LOOP 55
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5.2	0.3	0.3	0.3
40600205	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	5400	1350	1350	2700
40600300	AGGREGATE (PRIME COAT)	TON	12	3	3	6
40600845	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90	TON	728	168	168	392
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	320	80	80	160
40600990	TEMPORARY RAMP	SQ YD	160	40	40	80
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	728	168	168	392
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	1	1	2
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.25	0.25	0.5
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.25	0.25	0.5
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	L SUM	1	0.25	0.25	0.5
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	0.5	0.5	1
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.25	0.25	0.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	544	136	136	272

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

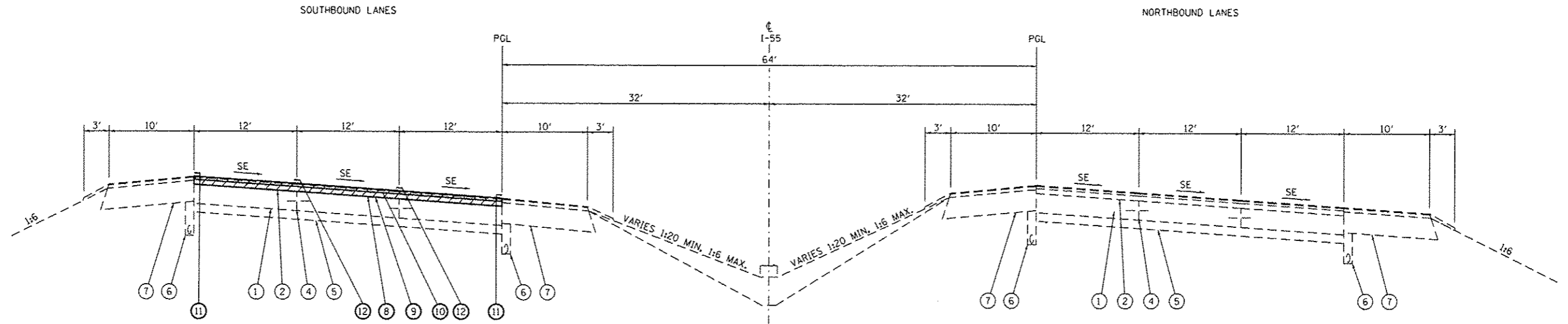
SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	*	**	10	4
CONTRACT NO. 72H02				
ILLINOIS FED. AID PROJECT				
* DB SPRING RD REPAIR 2014-2 ** LOGAN/SANGAMON				

1105 11 2 1192

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE		
				SANGAMON COUNTY	LOGAN COUNTY	
				CONSTRUCTION CODE		
				ROADWAY 0005	ROADWAY 0005	ROADWAY 0005
				WILLIAMSVILLE	BROADWELL	BUS LOOP 55
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	116	29	29	58
* 78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	1000	250	250	500
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	4000	1000	1000	2000
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	64	16	16	32
78300100	PAVEMENT MARKING REMOVAL	SQ FT	64	16	16	32
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	64	16	16	32
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	8000	2000	2000	4000
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	0.25	0.25	0.5

* SPECIALTY ITEM



WILLIAMSVILLE

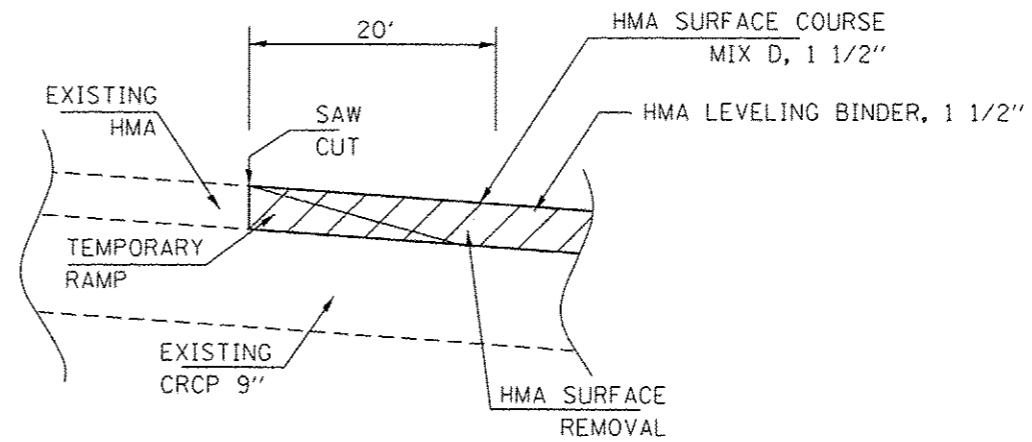
STA. 322+67.62 TO STA. 327+67.62

NOTES

1. MILL TO BARE CONCRETE.
2. MATCH EXISTING SUPERELEVATION

LEGEND

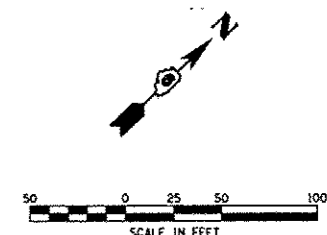
- 1 EXISTING CRCP PAVEMENT 9"
- 2 EXISTING HOT-MIX ASPHALT 3 1/4"
- 3 EXISTING HOT-MIX ASPHALT 3"
- 4 EXISTING LONGITUDINAL JOINT
- 5 EXISTING STABILIZED SUBBASE 4"
- 6 EXISTING UNDERDRAIN
- 7 EXISTING HOT-MIX ASPHALT SHOULDER
- 8 PROPOSED POLYMERIZED HOT-MIX ASPHALT LEVELING BINDER COURSE, IL-9.5, N90, 1 1/2"
- 9 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
- 10 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, (VARIABLE DEPTH)
- 11 PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE, 5"
- 12 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING TYPE B - INLAID - LINE, 5"



BUTT JOINT DETAIL

• D6 SPRING RD REPAIR 2014-2
 ** LOGAN/SANGAMON COUNTIES

FILE NAME :	USER NAME : sparkgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 TYPICAL SECTIONS D6 SPRING RD REPAIR 2014-2		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = Apr-17-2014 02:19:24PM	DATE -	REVISED -				SCALE:	SHEET	OF	SHEETS	STA.



STA. 322+67.62
PROJECT LIMIT

STA. 325+17.62 (I-55)=
STA. 49+47.05 (IL 123)

STA. 327+67.62
PROJECT LIMIT

PR. HMA PVMT., 3 LANES @ 12.0' EACH

111°-18'-07"

CL FAI 55 (I-55)

330+00

320+00

SN 084-0171

STA. 324+98.709 (I-55)=
STA. 50+00.00 (IL 123)

EXIST. CURVE 320

NOTES:

THE CONTRACTOR SHALL VERIFY
VERTICAL CLEARANCE AT SN 084-0171

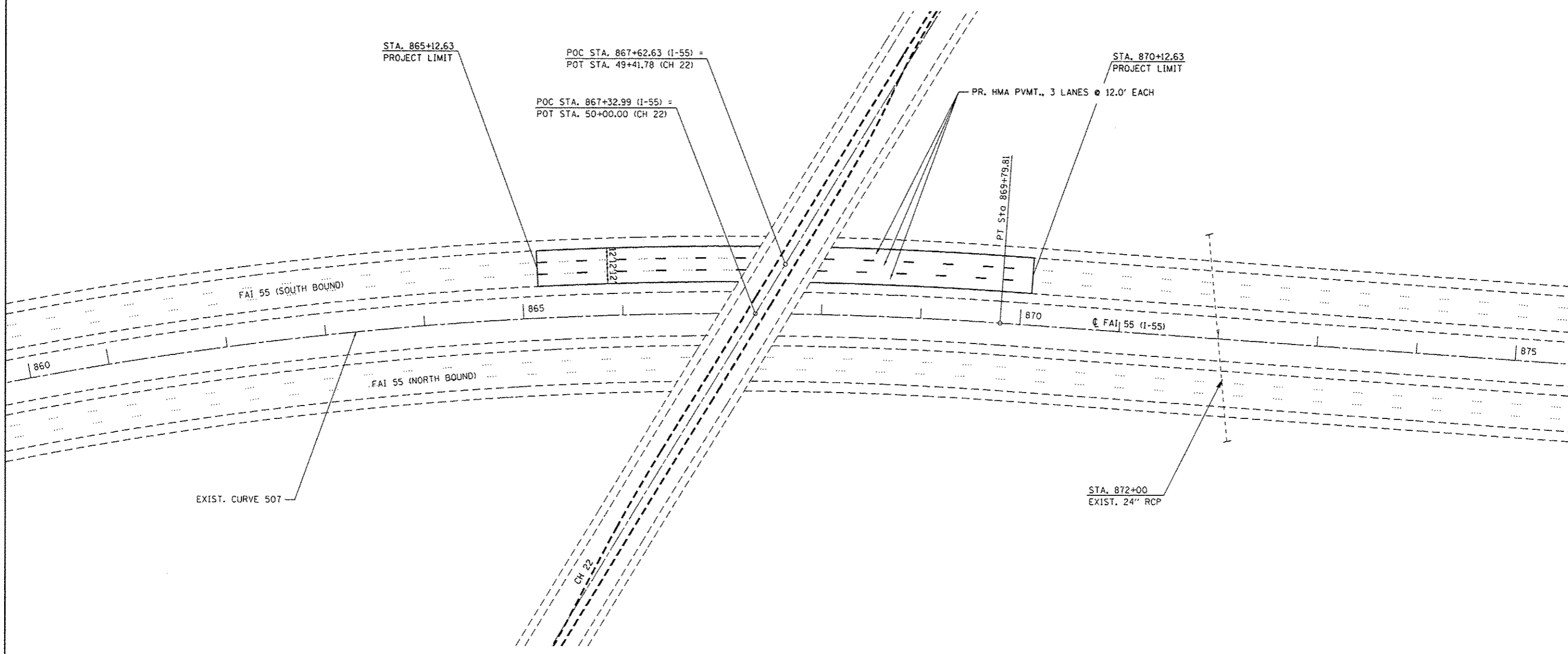
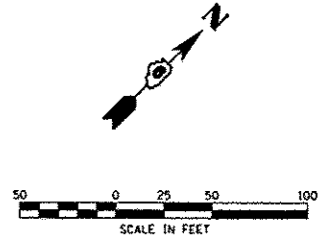
EXIST. CURVE 320
 PI STA. = 320+70.63
 Δ = 60° 00' 17" (RT)
 D = 2° 00' 01"
 R = 2,864.52'
 T = 1,653.99'
 L = 2,999.96'
 E = 443.22'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 304+16.64
 P.T. STA. = 334+16.59

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
I-55 - WILLIAMSVILLE EXIT**

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F.A.I. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		**	10	8
SCALE:			CONTRACT NO. 72H02	
SHEET	OF	SHEETS	STA.	TO STA.



NOTES:

THE CONTRACTOR SHALL VERIFY
VERTICAL CLEARANCE AT SN 054-0039

EXIST. CURVE 507
 PI STA. = 860+49.87
 Δ = 28° 29' 41" (RT)
 D = 1° 29' 59"
 R = 3,820.47'
 T = 970.09'
 L = 1,900.02'
 E = 121.24'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 850+79.78
 P.T. STA. = 869+79.81

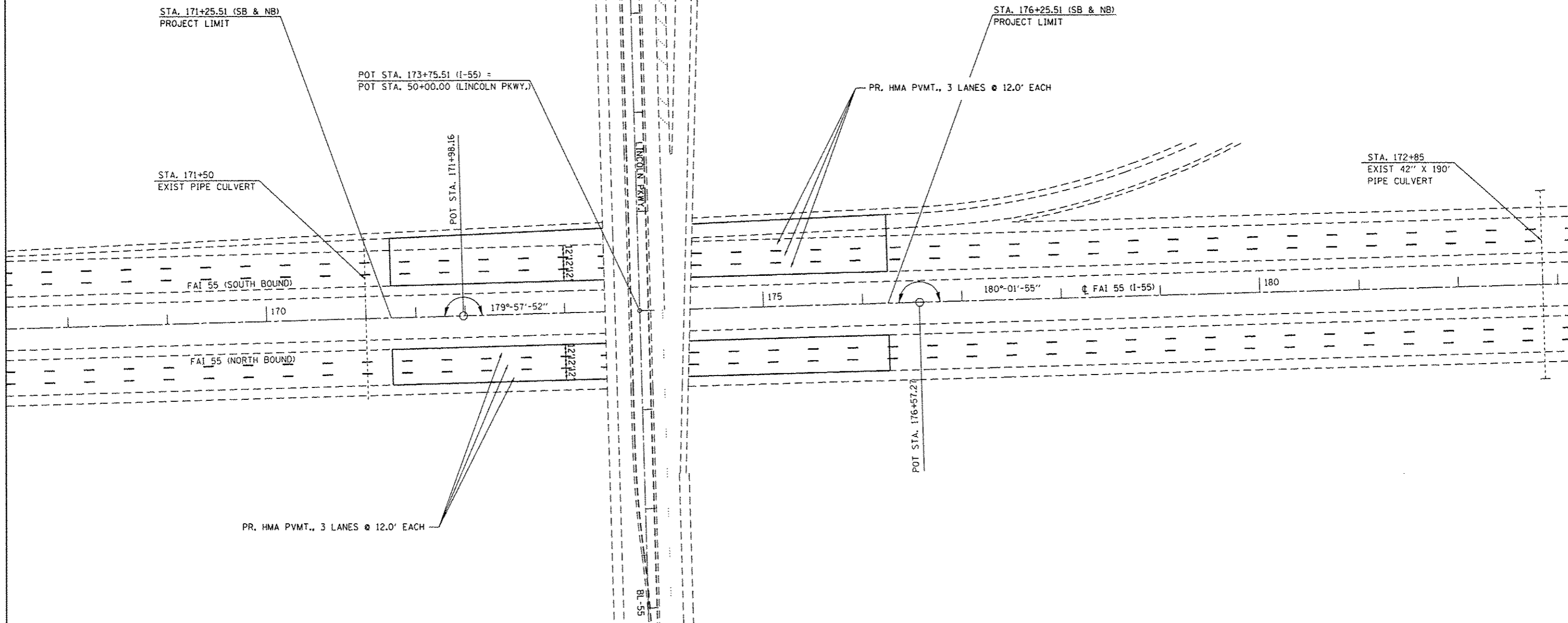
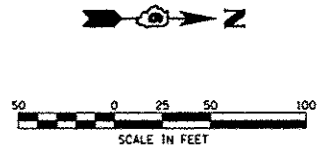
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
I-55 - BROADWELL EXIT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		**	10	9
ILLINOIS FED. AID PROJECT				CONTRACT NO. 72H02



NOTES:
 THE CONTRACTOR SHALL VERIFY
 VERTICAL CLEARANCE AT SN 054-0040

FILE NAME :	USER NAME : xparkgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW I-55 - LINCOLN EXIT				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		CONTRACT NO. 72H02				ILLINOIS FED. AID PROJECT				
Default	PLOT DATE : Apr-17-2014 02:19:25PM	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	• D6 SPRING RD REPAIR 2014-2	