

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147,146)RS-5	ST. CLAIR	21	1
		ILLINOIS	CONTRACT NO. 76P37	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

BRIDGE OMISSIONS

STRUCTURE NOS.	LENGTH
082-0102/ 082-0103	185 FT.
082-0290/ 082-0291	565 FT.

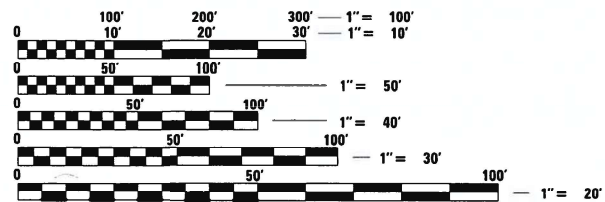
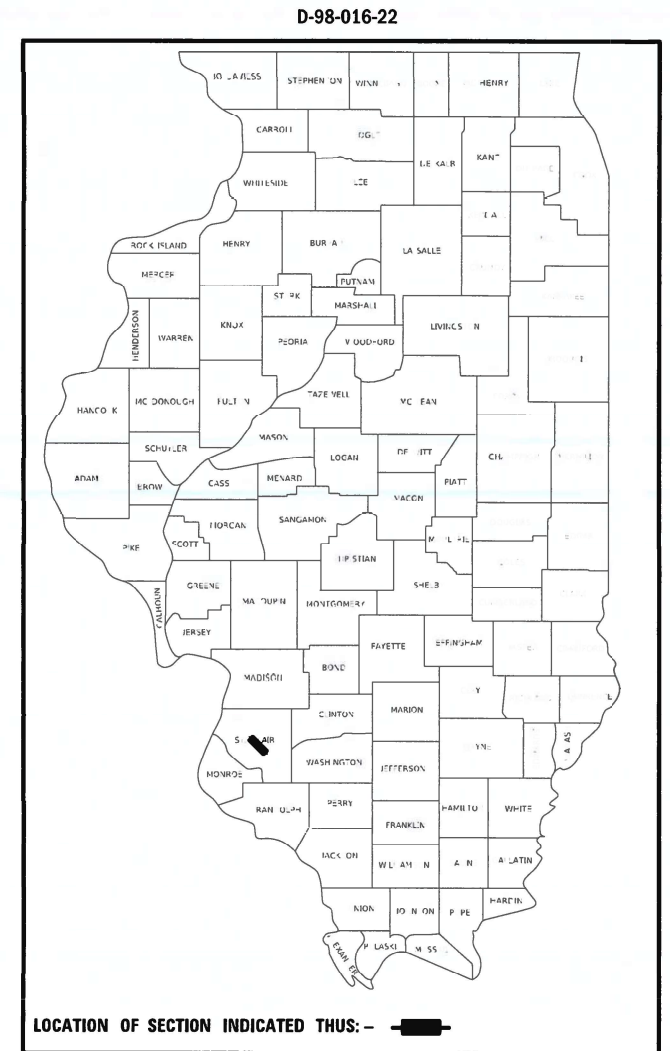
TRAFFIC DATA

LOCATION	IL 161 ST. CLAIR AVE. TO 0.1 MI E. OF DUTCH HOLLOW RD.
2021 ADT	13900 (ESTIMATED)
2041 ADT	16300 (ESTIMATED)
MU%	2.0
SU%	3.1

PROPOSED HIGHWAY PLANS

FAP ROUTE 805 (IL 161)
SECTION (147, 146)RS-5
PROJECT NHPP-12NF(570)
RESURFACING - SMART OVERLAY
ST. CLAIR COUNTY

C-98-045-22



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

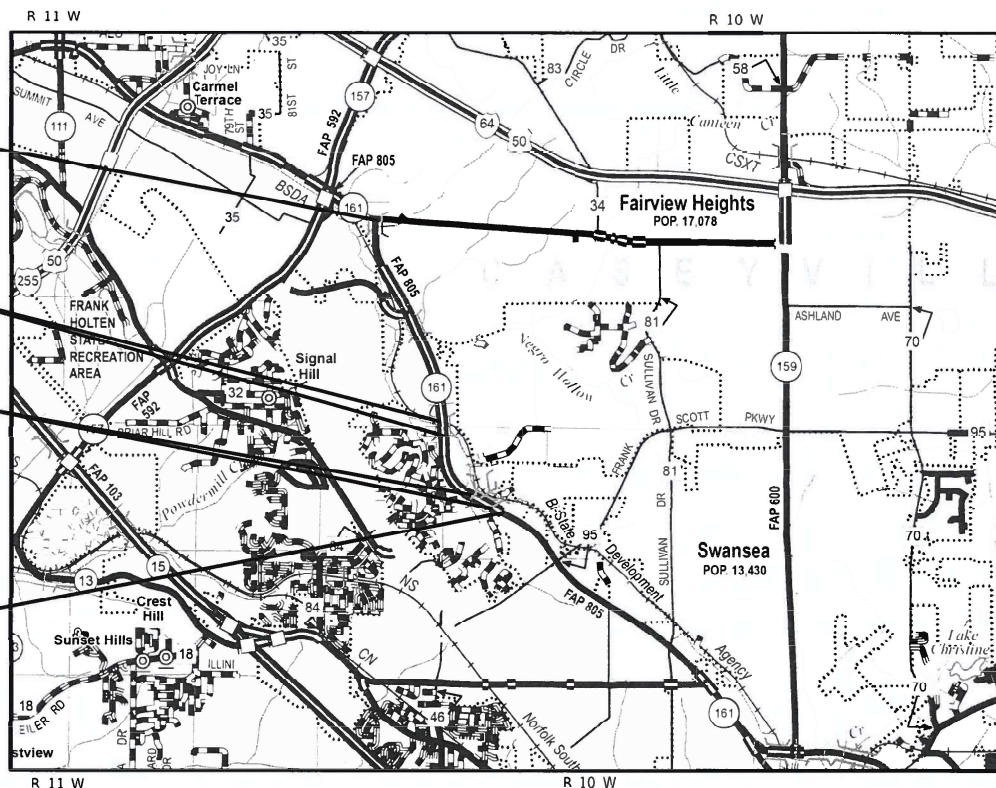
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

BEGIN PROJECT
0.00 M.S.
LATITUDE: 38.595728
LONGITUDE: -90.046076

SN 082-0102/ 0103
BRIDGE OMISSION
0.93 M.S. - 0.97 M.S.

SN 082-0290/ 0291
BRIDGE OMISSION
1.67 M.S. - 1.78 M.S. (NB)
1.67 M.S. - 1.77 M.S. (SB)

END PROJECT
1.82 M.S.
LATITUDE: 38.570905
LONGITUDE: -90.035688



LOCATION MAP

GROSS LENGTH = 9,609.6 FT. = 1.82 MILE

NET LENGTH = 8,859.6 FT. = 1.68 MILE

NOT TO SCALE

PROJECT ENGINEER: BILLIE OWEN (618)346-3209
PROJECT MANAGER: PHILLIP FREIMUTH (618)346-3194

CONTRACT NO. 76P37

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 22, 2021
Keith Roberts
REGIONAL ENGINEER

December 10, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

December 10, 2021
Stephen M. Laska
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
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- 11 SURVEY MONUMENT LOCATION
- 12 LOCATION MAP
- 13-18 DETECTOR LOOP DETAILS
- 19-21 MISCELLANEOUS DETAILS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442101-09 CLASS B PATCHES
- 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45MPH TO 55 MPH
- 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERS. FOR SPEEDS > 45 MPH
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKINGS
- 782001-01 CURB REFLECTORS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTOR LOOPS
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT

GENERAL NOTES

- 1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

UTILITY	ABOVE GROUND	BELOW GROUND
AMEREN ILLINOIS - (GAS & ELECTRIC)	X	X
AT&T ILLINOIS (COMMUNICATIONS)	X	X
CHARTER COMMUNICATIONS (CABLE TV)	X	X
CITY OF FAIRVIEW HEIGHTS		X
ILLINOIS AMERICAN WATER COMPANY		X
CITY OF OFALLON (WATER & SANITARY SEWER)		X

- 2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
- 3. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE SAME LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 4. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 6. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 7. ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS SHORT TERM PAVEMENT MARKING REMOVAL.

- 8. ANY DETECTOR LOOPS THAT ARE NOT INDICATED ACCORDING TO THE PLANS AS DETECTOR LOOPS REPLACEMENT, THE CONTRACTOR SHALL EXERCISE CAUTION TO NOT DAMAGE DETECTOR LOOPS OR LEAD-IN WIRES. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9. AN EMPTIED MATERIAL TRANSFER DEVICE IS ALLOWED OVER STRUCTURES SN 042-0025, SN 082-0102 (40 TONS), SN 082-0103 (40 TONS), SN 082-0290 (40 TONS), SN 082-0291 (40 TONS), 082-2040 (40 TONS). IF THE SAME MTD IS USED THROUGHOUT THE ENTIRE CONTRACT, THEN IT MUST BE LIMITED TO AN EMPTY GROSS WEIGHT ≤ 40 TONS.

MIXTURE REQUIREMENTS

ROUTE	FAP 805 (1L 161)
SECTION	(147,146)RS-5
COUNTY	ST. CLAIR
CONTRACT	76P37

DESCRIPTION	SMART - 1L 161 FROM ST. CLAIR AVE. TO 0.1 MI E. OF DUTCH HOLLOW RD.
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MIXTURE USE	SURFACE	SHOULDERS (SURFACE)
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	1L 9.5	1L 9.5L
FRICITION AGG	MIXTURE "D"	
QUALITY MGMT PROGRAM	QCP	QCP
MatTranDev REQUIRED?	YES	NO

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/ SQ YD/ INCH (58.9 KG/SQ M/ 25MM THICKNESS). ANY QCP PAY ITEM THAT HAS A QUANTITY OF 1600 TONS OR LESS WILL HAVE TWO SUBLOTS EACH OF WHICH WILL BE HALF OF THE PLAN QUANTITY OR HALF OF THE ADJUSTED QUANTITY BY THE RESIDENT ENGINEER/TECHNICIAN.

COMMITMENTS

NONE

REV. - MS

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USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2.0141' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/21/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS**

SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147, 146)RS-5	ST. CLAIR	21	2
			CONTRACT NO. 76P37	
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	
				ROADWAY 0005 URBAN	CONSTR. CODE
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	35058	35058	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	25001	25001	
40600990	TEMPORARY RAMP	SQ YD	425	425	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	4687	4687	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	77896	77896	
44200050	WELDED WIRE REINFORCEMENT	SQ YD	256	256	
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	193	193	
44201011	CLASS B PATCHES, TYPE III, 13 INCH	SQ YD	108	108	
44201055	CLASS B PATCHES, TYPE II, 17 INCH	SQ YD	13	13	
44201057	CLASS B PATCHES, TYPE III, 17 INCH	SQ YD	72	72	
44201299	DOWEL BARS 1 1/2"	EACH	717	717	
44213200	SAW CUTS	FOOT	1976	1976	
44213204	TIE BARS 3/4"	EACH	21	21	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	413	413	

80% FED
20% STATE

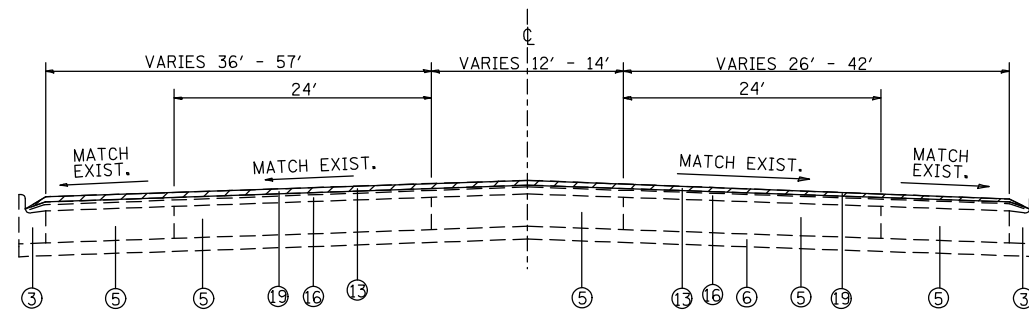
CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	
				ROADWAY 0005 URBAN	CONSTR. CODE
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1871	1871	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2530	2530	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	843	843	
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PA I N T	SQ FT	630	630	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PA I N T	FOOT	42220	42220	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PA I N T	FOOT	1150	1150	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PA I N T	FOOT	909	909	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PA I N T	FOOT	100	100	

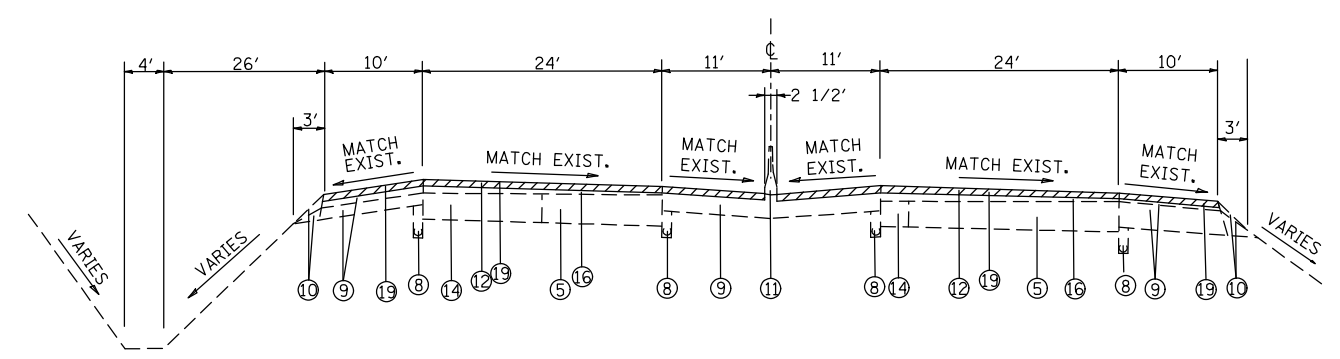
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REV. - MS

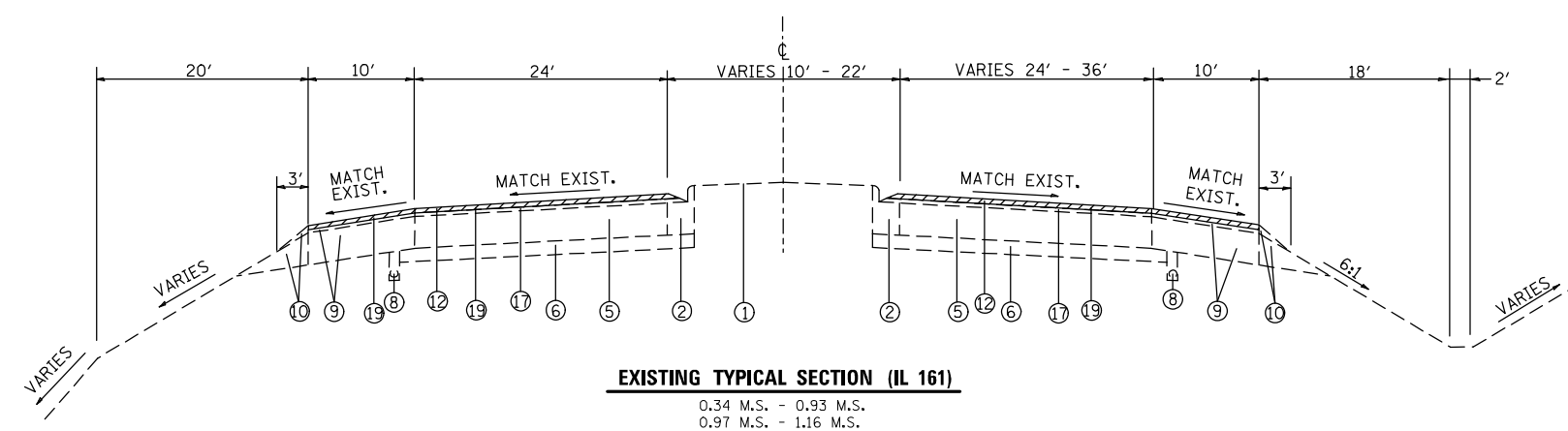
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DRAWN - _____	REVISOR - _____	805					(147, 146)RS-5	ST. CLAIR	21	3	
PLOT SCALE = 2.0141' / in.	CHECKED - _____	REVISOR - _____		SCALE: _____ SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____			CONTRACT NO. 76P37		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/22/2021	DATE - _____	REVISOR - _____									



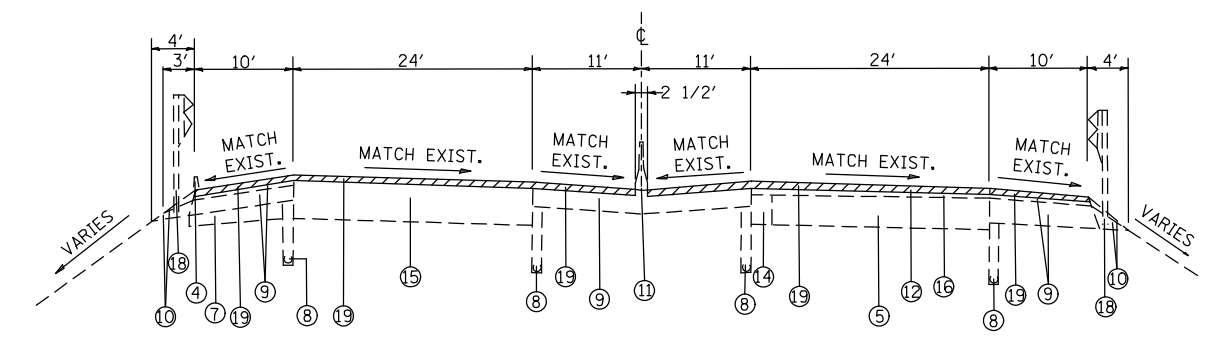
EXISTING TYPICAL SECTION (IL 161)
0.0 M.S. - 0.34 M.S.



EXISTING TYPICAL SECTION (IL 161)
1.16 M.S. - 1.41 M.S.



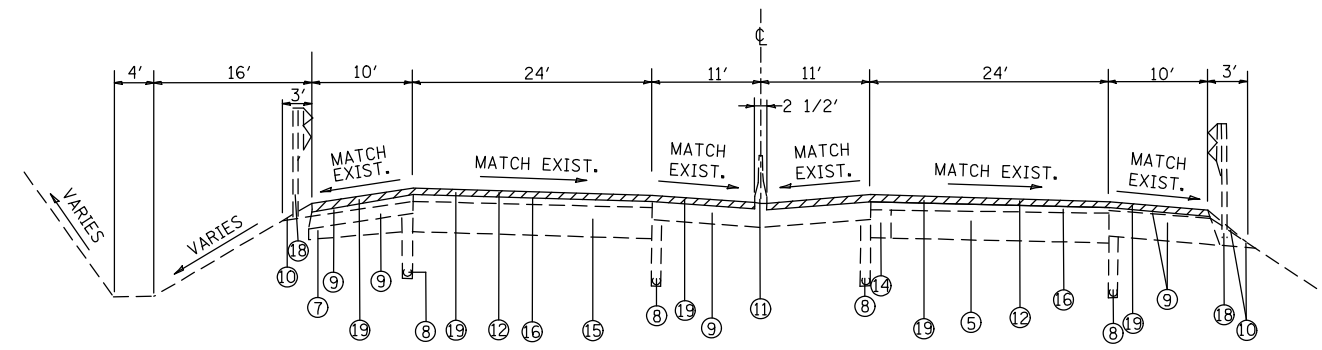
EXISTING TYPICAL SECTION (IL 161)
0.34 M.S. - 0.93 M.S.
0.97 M.S. - 1.16 M.S.



EXISTING SUPERELEVATED TYPICAL SECTION (IL 161)
1.41 M.S. - 1.53 M.S.
1.77 M.S. - 1.81 M.S. (SOUTHBOUND)
1.78 M.S. - 1.82 M.S. (NORTHBOUND)

LEGEND

- ① EXISTING CONCRETE MEDIAN OR EARTH MEDIAN
- ② EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.24
- ③ EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING CONCRETE CURB (1.78 M.S. - 1.81 M.S.)
- ⑤ EXISTING CONCRETE PAVEMENT, 10"
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 4"
- ⑦ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑧ EXISTING PIPE UNDERDRAIN 4"
- ⑨ EXISTING HOT-MIX ASPHALT SHOULDERS VARIES 10-13"
- ⑩ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑪ EXISTING CONCRETE BARRIER
- ⑫ EXISTING HOT-MIX ASPHALT RESURFACING, 1 1/2" - 2" AND VARIES
- ⑬ EXISTING HOT-MIX ASPHALT RESURFACING 3 1/4"
- ⑭ EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 11"
- ⑮ EXISTING HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
- ⑯ EXISTING LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- ⑰ EXISTING LEVELING BINDER (MACHINE METHOD), N70, 1"
- ⑱ EXISTING GUARDRAIL
- ⑲ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
- ⑳ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ㉑ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D N70, 1 1/2"
- ㉒ PROPOSED HOT-MIX ASPHALT SHOULDERS
- ㉓ PROPOSED AGGREGATE WEDGE, TYPE B
- ㉔ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- ㉕ PROPOSED LONGITUDINAL JOINT SEALANT



EXISTING TYPICAL SECTION (IL 161)
1.53 M.S. - 1.67 M.S.

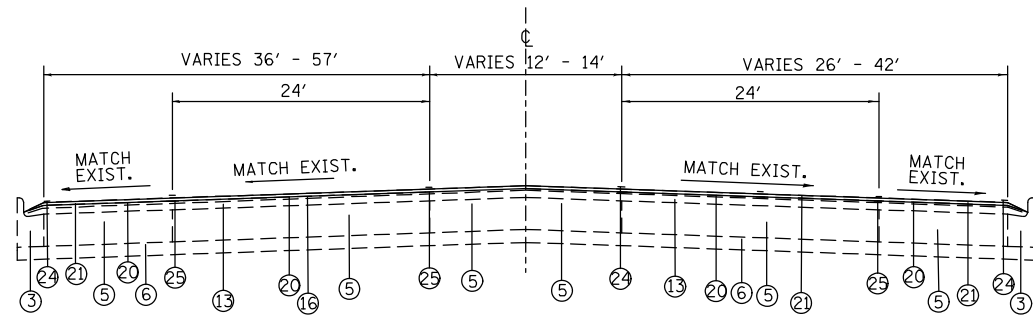
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DRAWN - _____	REVISIONS - _____	
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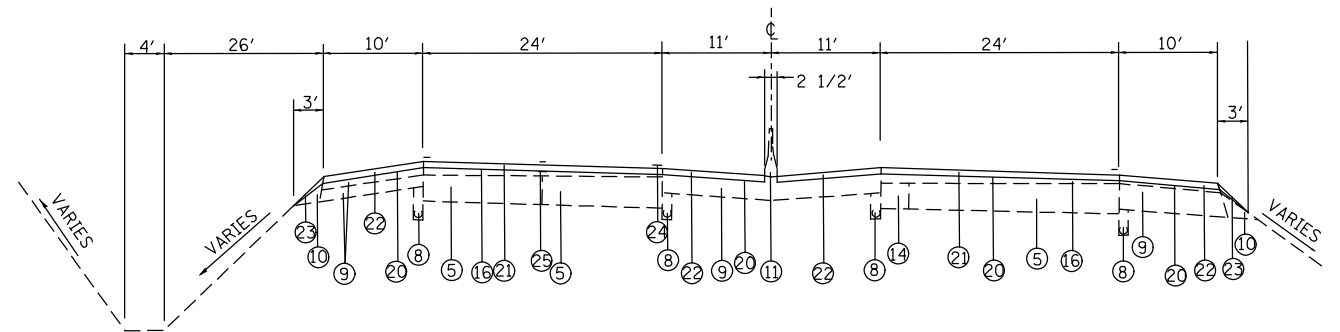
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE: _____	SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____

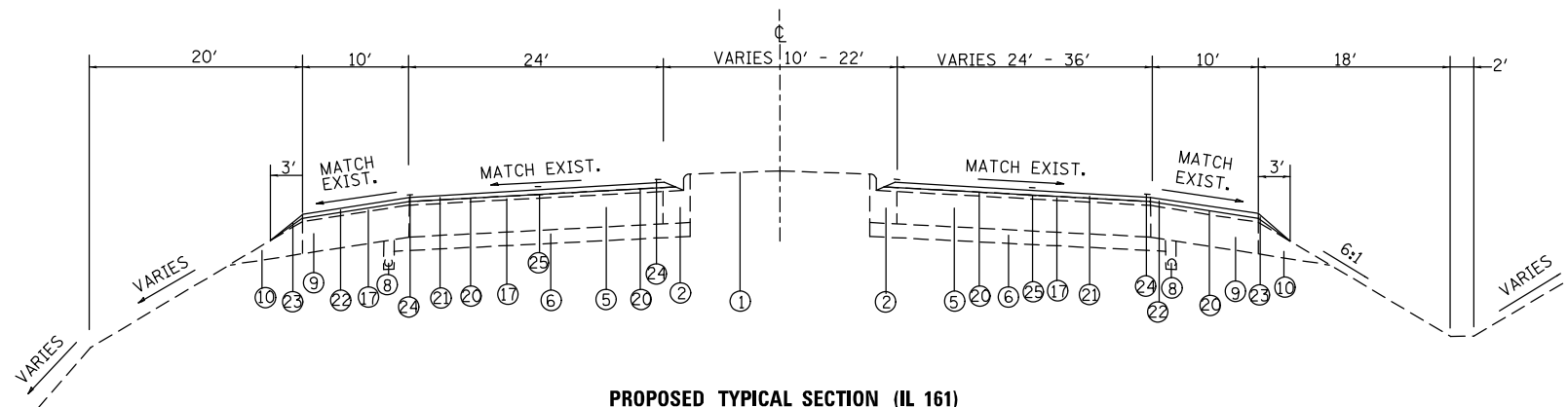
F.A.S./E.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				



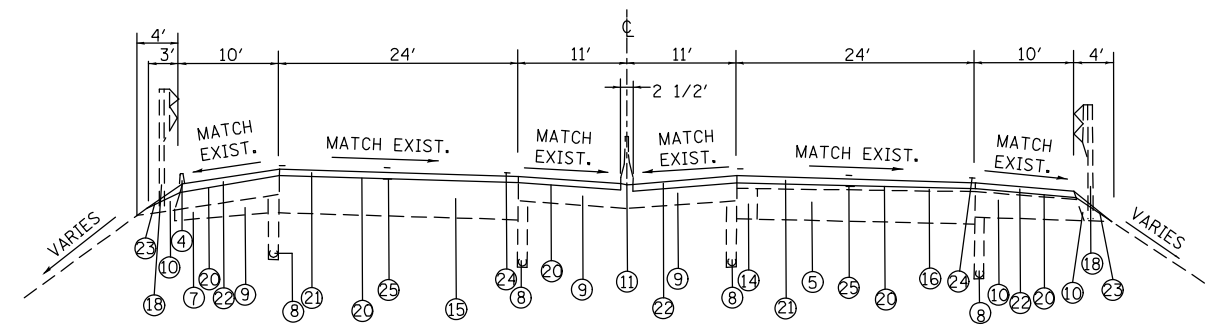
PROPOSED TYPICAL SECTION (IL 161)
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PROPOSED TYPICAL SECTION (IL 161)
1.16 M.S. - 1.41 M.S.



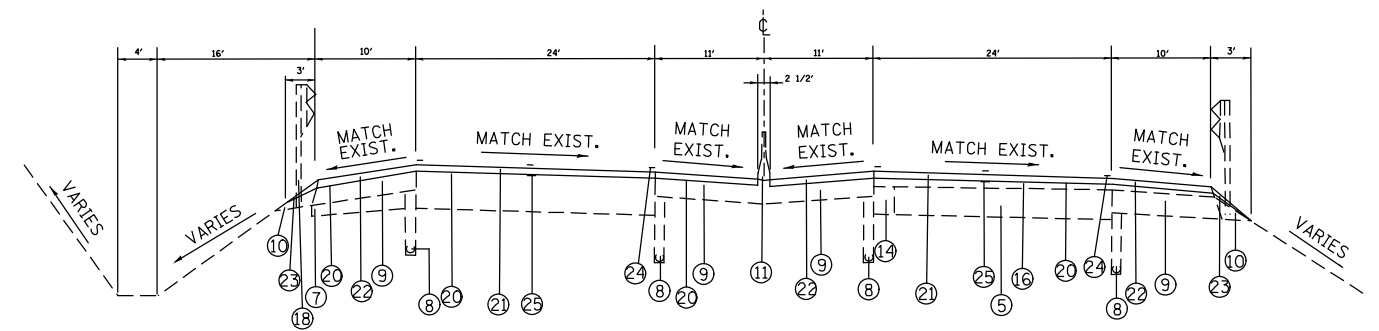
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0.97 M.S. - 1.16 M.S.



PROPOSED SUPERELEVATED TYPICAL SECTION (IL 161)
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1.77 M.S. - 1.81 M.S. (SOUTHBOUND)
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- ㉓ PROPOSED AGGREGATE WEDGE, TYPE B
- ㉔ PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- ㉕ PROPOSED LONGITUDINAL JOINT SEALANT



PROPOSED TYPICAL SECTION (IL 161)
1.53 M.S. - 1.67 M.S.

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DRAWN - _____	REVISIONS - _____	REVISIONS - _____
PLOT SCALE = 2.0141' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = 10/22/2021	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147, 146)R5-5	ST. CLAIR	21	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P37	

CLASS B PATCHING SCHEDULE - 13"								
MILE STATION	LOCATION/LANE	DIMENSIONS		TYPE II SQ YD	TYPE III SQ YD	SAW CUTS FOOT	WELDED WIRE REINFORCEMENT SQ YD	DOWEL BARS 1 1/2" EACH
		LENGTH	WIDTH					
		FOOT	FOOT					
0.002	EB	12	12		16	60	16	20
0.057	EB	10	12	14		56		20
0.076	LTL	15	12		20	66	20	20
0.076	EB - L1	15	12		20	66	20	20
0.784	EB - L1	15	12		20	66	20	20
0.784	EB - L2	15	12		20	66	20	20
0.796	WB - L1	6	12	8		48		20
0.796	EB - L1	6	12	8		48		20
0.881	EB - L1	6	12	8		48		20
0.881	EB - L2	6	12	8		48		20
0.947	WB - L2	6	12	8		48		20
0.960	WB - L2	6	12	8		48		20
0.996	WB - L1	6	12	8		48		20
0.996	WB - L2	6	12	8		48		20
1.013	WB - L2	10	12	14		56		20
1.021	WB - L1	6	12	8		48		20
1.021	WB - L2	6	12	8		48		20
1.047	WB - L1	6	12	8		48		20
1.047	WB - L2	6	12	8		48		20
1.065	WB - L1	6	12	8		48		20
1.065	WB - L2	6	12	8		48		20
1.070	EB - L1	6	12	8		48		20
1.070	EB - L2	6	12	8		48		20
1.087	EB - L1	6	12	8		48		20
1.087	EB - L2	6	12	8		48		20
SUBTOTAL				172	96	1300	96	500
12% SUBTOTAL*				21	12	156	12	60
TOTAL				193	108	1456	108	560

*NOTE: AN ADDITIONAL 12% HAS BEEN ADDED TO THE FINAL PATCHING QUANTITY TO ALLOW FOR WINTER DAMAGE.

CLASS B PATCHING SCHEDULE - 17"										
MILE STATION	LOCATION/LANE	DIMENSIONS		TYPE II SQ YD	TYPE III SQ YD	TYPE IV SQ YD	SAW CUTS FOOT	TIE BARS 3/4" EACH	WELDED WIRE REINFORCEMENT SQ YD	DOWEL BARS 1 1/2" EACH
		LENGTH	WIDTH							
		FOOT	FOOT							
1.531	WB - L1	25	12			34	86	9	34	20
1.531	WB - L2	25	12			34	86	9	34	20
1.531	EB - L1	12	12		16		60		16	20
1.531	EB - L2	12	12		16		60		16	20
1.606	EB - L1	12	12		16		60		16	20
1.606	EB - L2	12	12		16		60		16	20
1.615	EB - L2	8	12	11			52			20
SUBTOTAL				11	64	68	464	18	132	140
12% SUBTOTAL*				2	8	9	56	3	16	17
TOTAL				13	72	77	520	21	148	157

*NOTE: AN ADDITIONAL 12% HAS BEEN ADDED TO THE FINAL PATCHING QUANTITY TO ALLOW FOR WINTER DAMAGE.

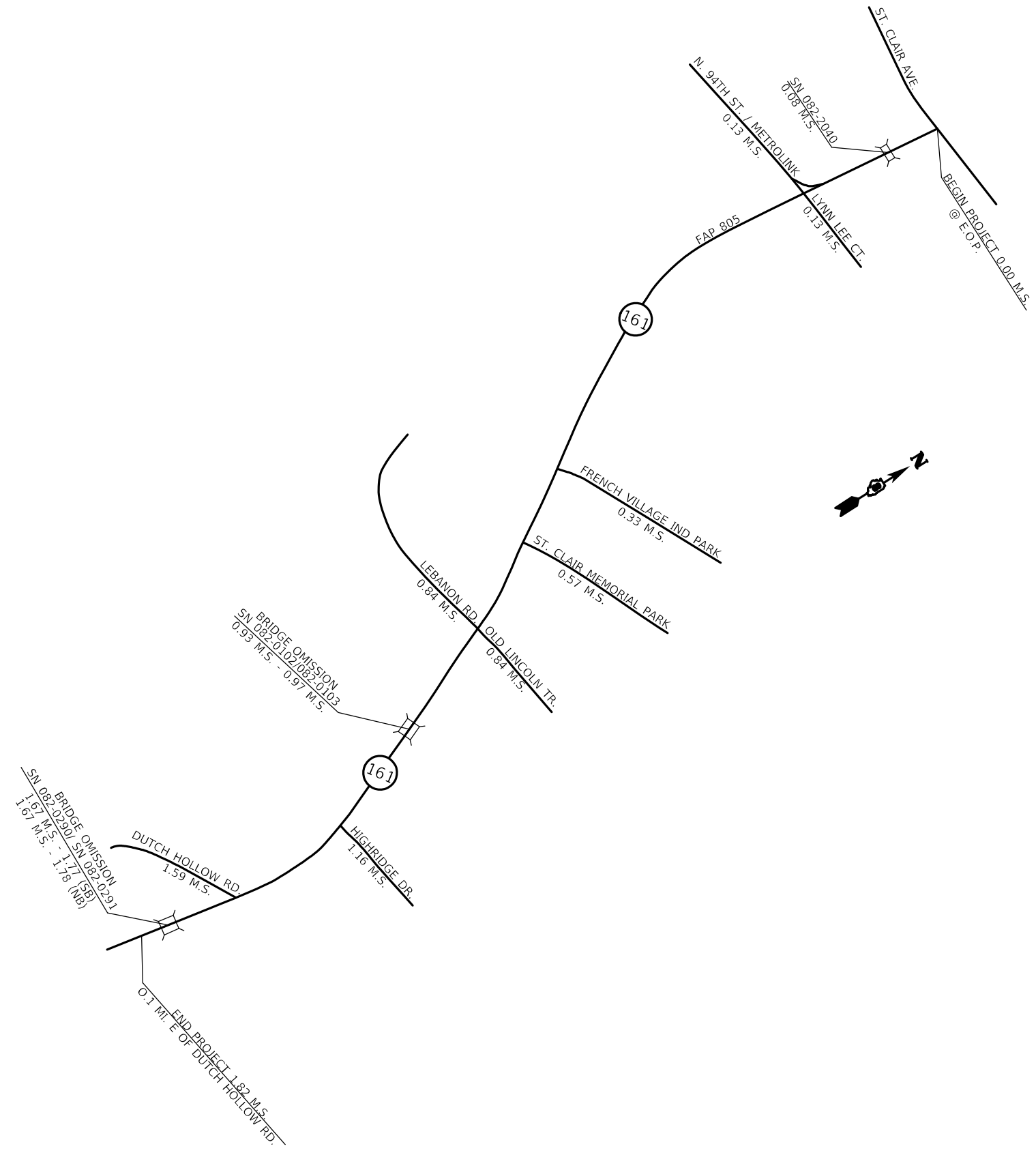
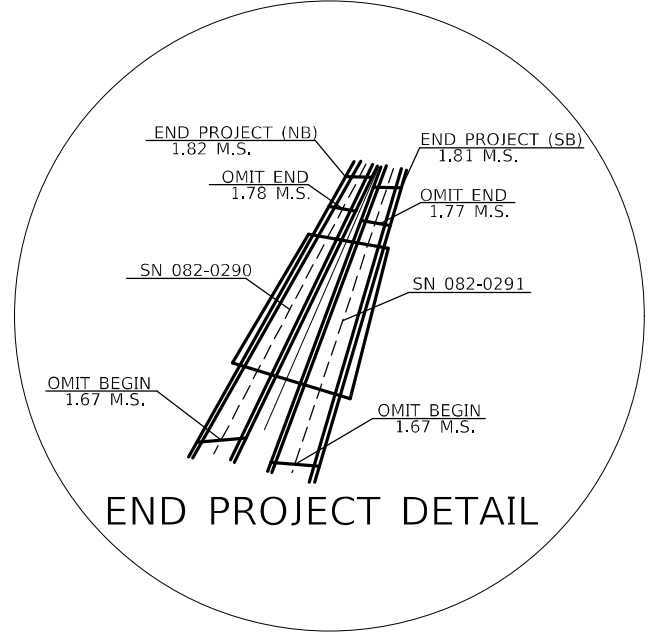
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PLOT DATE = 10/21/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE: _____	SHEET 4	OF 4 SHEETS	STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147,146)RS-5	ST. CLAIR	21	10
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				



NOT TO SCALE

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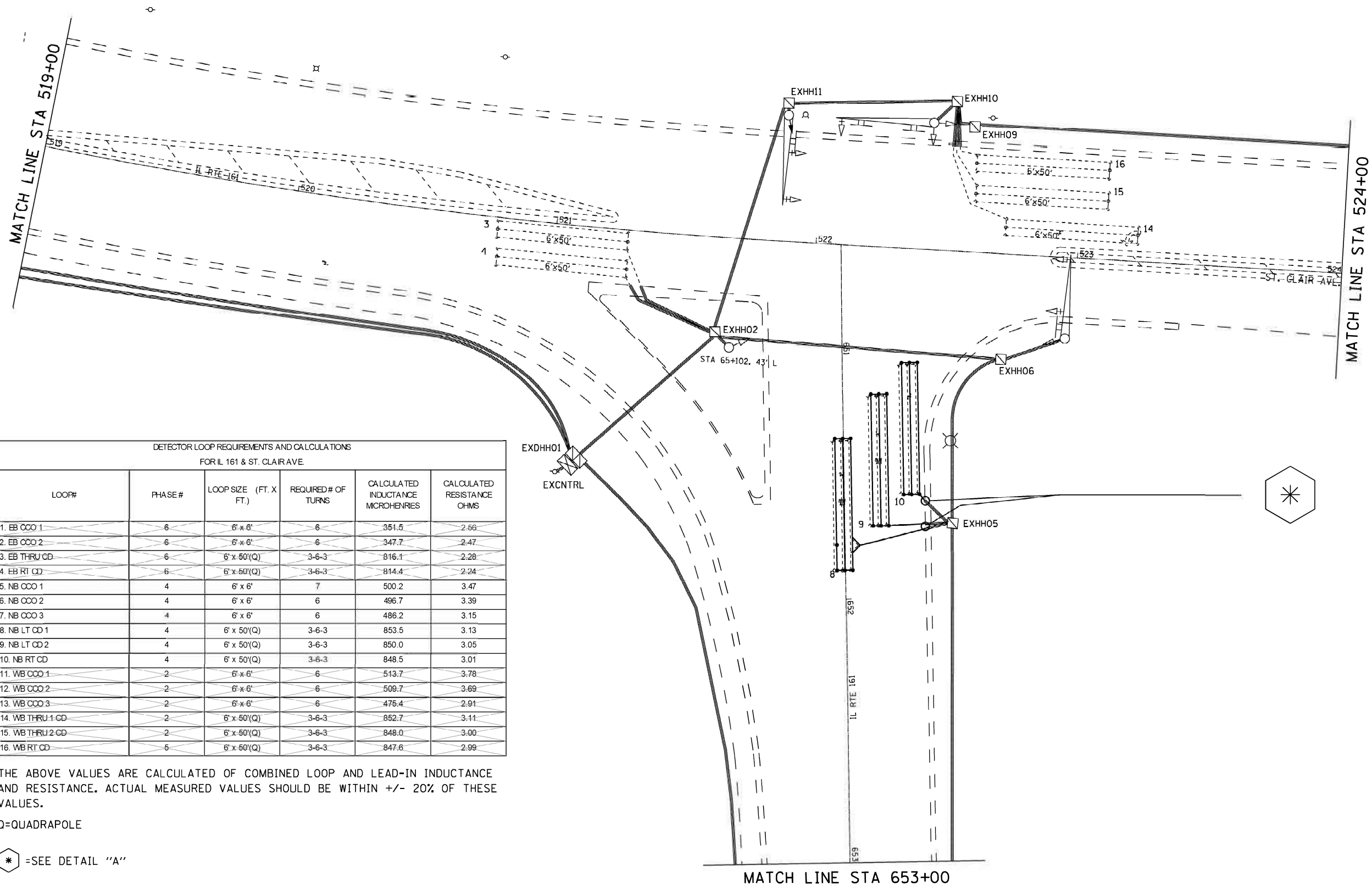
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PLOT DATE = 10/22/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147, 146)RS-5	ST. CLAIR	21	12
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 161 & ST. CLAIR AVE.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB COO 1	6	6' x 6'	6	351.5	2.66
2. EB COO 2	6	6' x 6'	6	347.7	2.47
3. EB THRU CD	6	6' x 50'(Q)	3-6-3	816.1	2.28
4. EB RT CD	6	6' x 50'(Q)	3-6-3	814.4	2.24
5. NB COO 1	4	6' x 6'	7	500.2	3.47
6. NB COO 2	4	6' x 6'	6	496.7	3.39
7. NB COO 3	4	6' x 6'	6	486.2	3.15
8. NB LT CD 1	4	6' x 50'(Q)	3-6-3	853.5	3.13
9. NB LT CD 2	4	6' x 50'(Q)	3-6-3	850.0	3.05
10. NB RT CD	4	6' x 50'(Q)	3-6-3	848.5	3.01
11. WB COO 1	2	6' x 6'	6	513.7	3.78
12. WB COO 2	2	6' x 6'	6	509.7	3.69
13. WB COO 3	2	6' x 6'	6	476.4	2.91
14. WB THRU 1 CD	2	6' x 50'(Q)	3-6-3	852.7	3.11
15. WB THRU 2 CD	2	6' x 50'(Q)	3-6-3	848.0	3.00
16. WB RT CD	5	6' x 50'(Q)	3-6-3	847.6	2.99

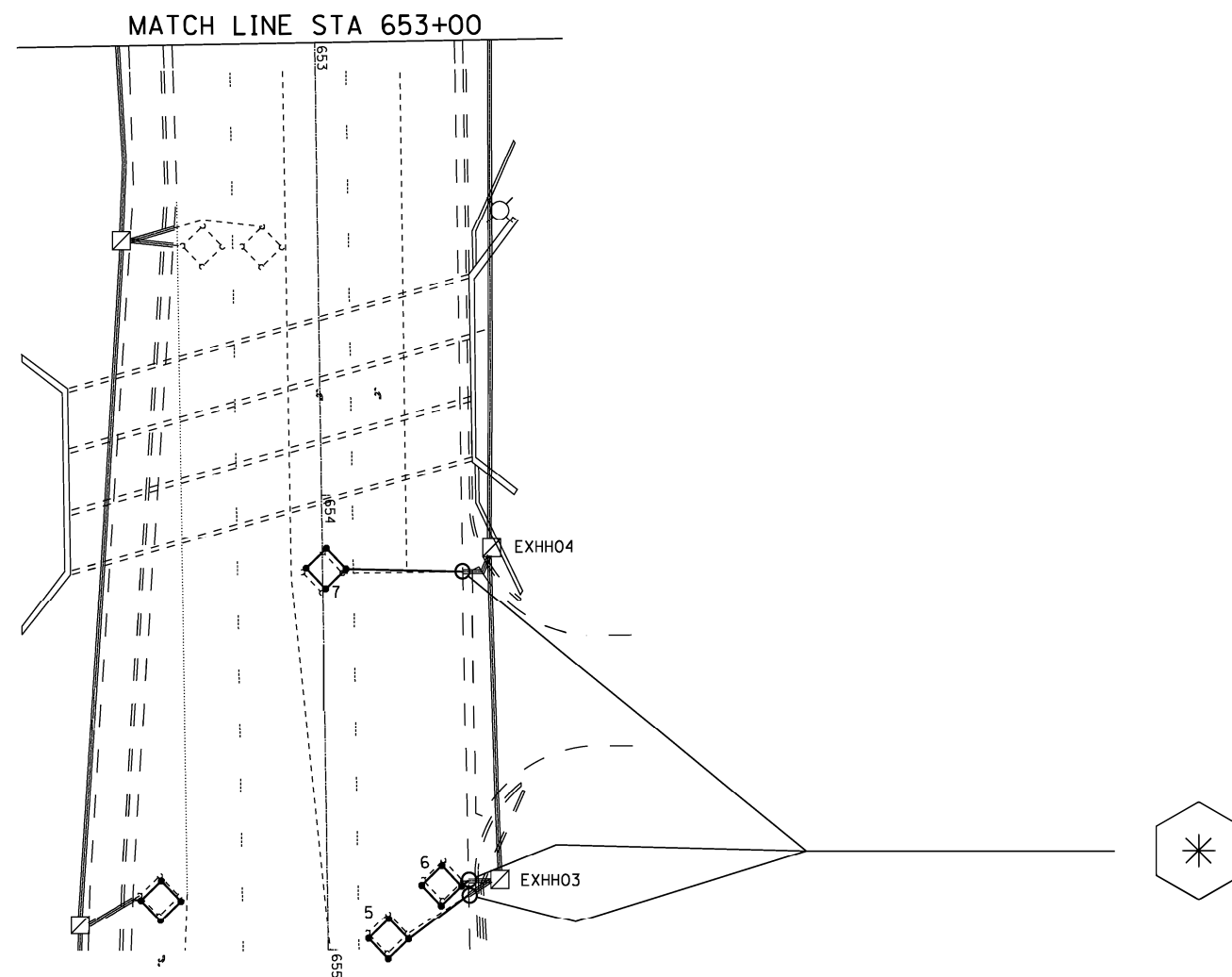
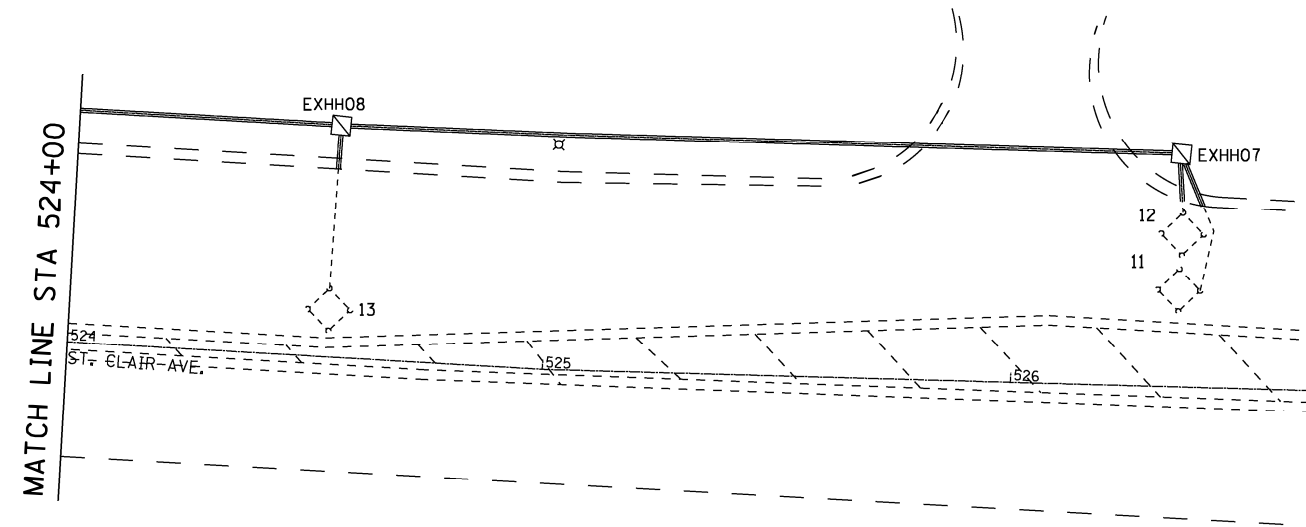
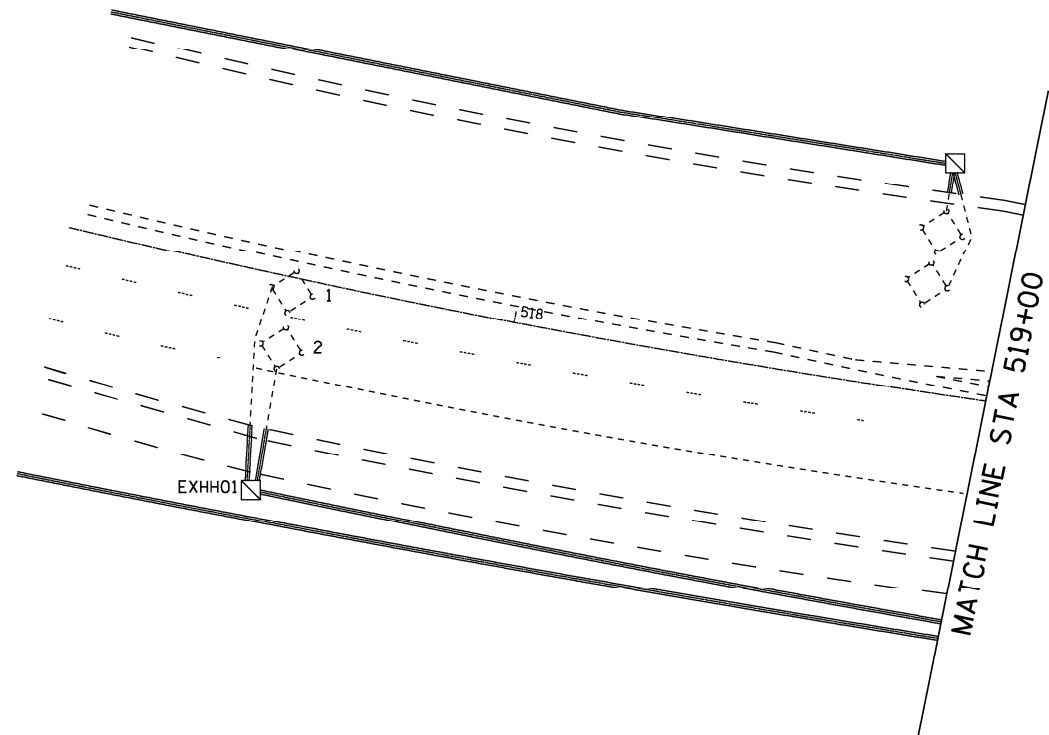
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

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=SEE DETAIL "A"

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PLOT DATE = 9/30/2021	CHECKED -	REVISED +			CONTRACT NO. 76P37							
	DATE -	REVISED +			ILLINOIS FED. AID PROJECT							
			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 161 & ST. CLAIR AVE.
DETECTOR LOOP REPLACEMENT PLAN
2 OF 2

SCALE: SHEET OF SHEETS STA. TO STA.

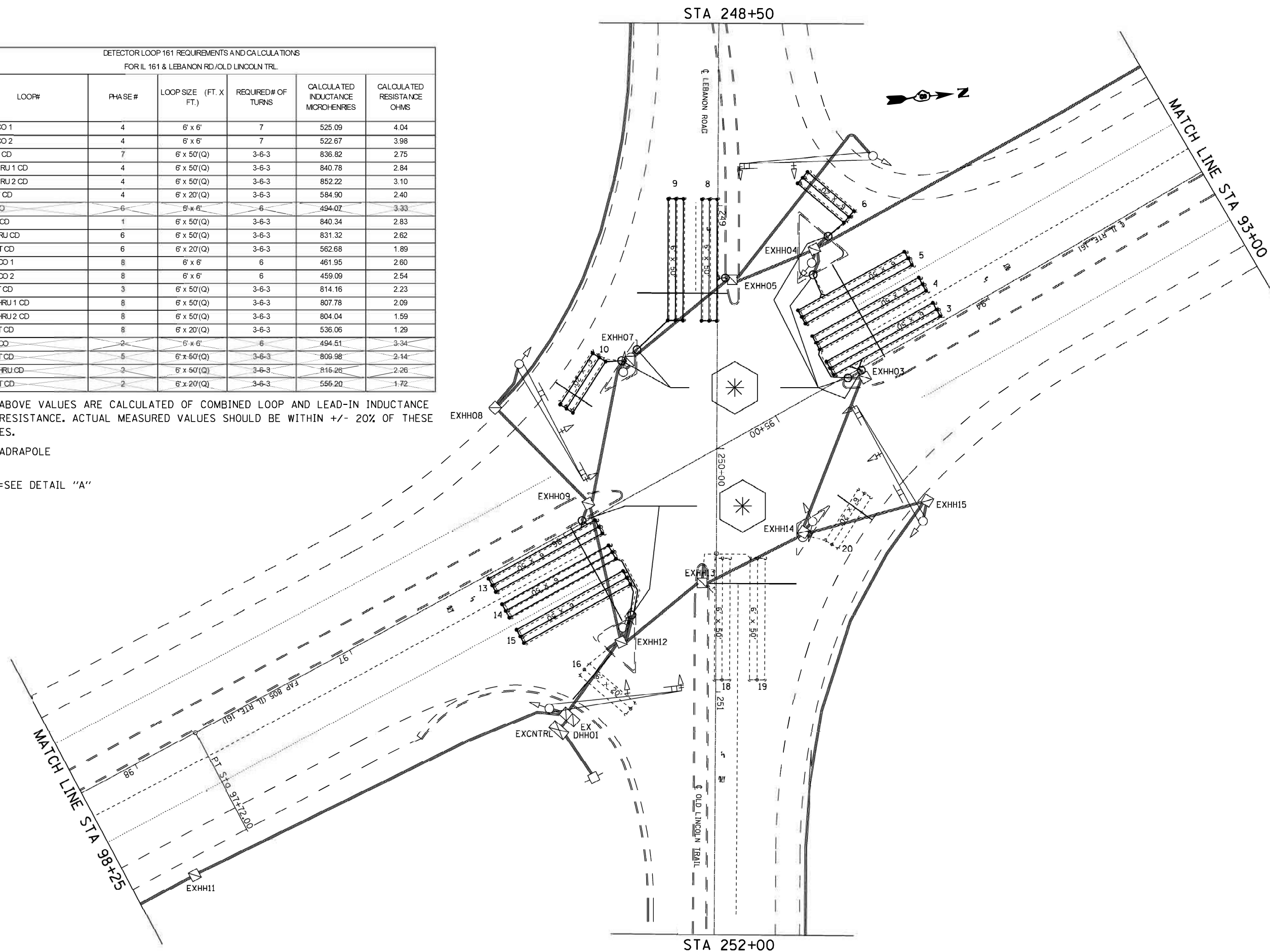
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805	(147, 146)RS-5	ST. CLAIR	21	15
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				

DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 161 & LEBANON RD./OLD LINCOLN TRL					
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED# OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. WB COO 1	4	6' x 6'	7	525.09	4.04
2. WB COO 2	4	6' x 6'	7	522.67	3.98
3. WB LT CD	7	6' x 50'(Q)	3-6-3	836.82	2.75
4. WB THRU 1 CD	4	6' x 50'(Q)	3-6-3	840.78	2.84
5. WB THRU 2 CD	4	6' x 50'(Q)	3-6-3	852.22	3.10
6. WB RT CD	4	6' x 20'(Q)	3-6-3	584.90	2.40
7. SB COO	6	6' x 6'	6	494.07	3.33
8. SB LT CD	1	6' x 50'(Q)	3-6-3	840.34	2.83
9. SB THRU CD	6	6' x 50'(Q)	3-6-3	831.32	2.62
10. SB RT CD	6	6' x 20'(Q)	3-6-3	562.68	1.89
11. EB COO 1	8	6' x 6'	6	461.95	2.60
12. EB COO 2	8	6' x 6'	6	459.09	2.54
13. EB LT CD	3	6' x 50'(Q)	3-6-3	814.16	2.23
14. EB THRU 1 CD	8	6' x 50'(Q)	3-6-3	807.78	2.09
15. EB THRU 2 CD	8	6' x 50'(Q)	3-6-3	804.04	1.59
16. EB RT CD	8	6' x 20'(Q)	3-6-3	536.06	1.29
17. NB COO	2	6' x 6'	6	494.51	3.34
18. NB LT CD	5	6' x 50'(Q)	3-6-3	809.98	2.14
19. NB THRU CD	2	6' x 50'(Q)	3-6-3	816.26	2.26
20. NB RT CD	2	6' x 20'(Q)	3-6-3	556.20	1.72

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

* =SEE DETAIL "A"



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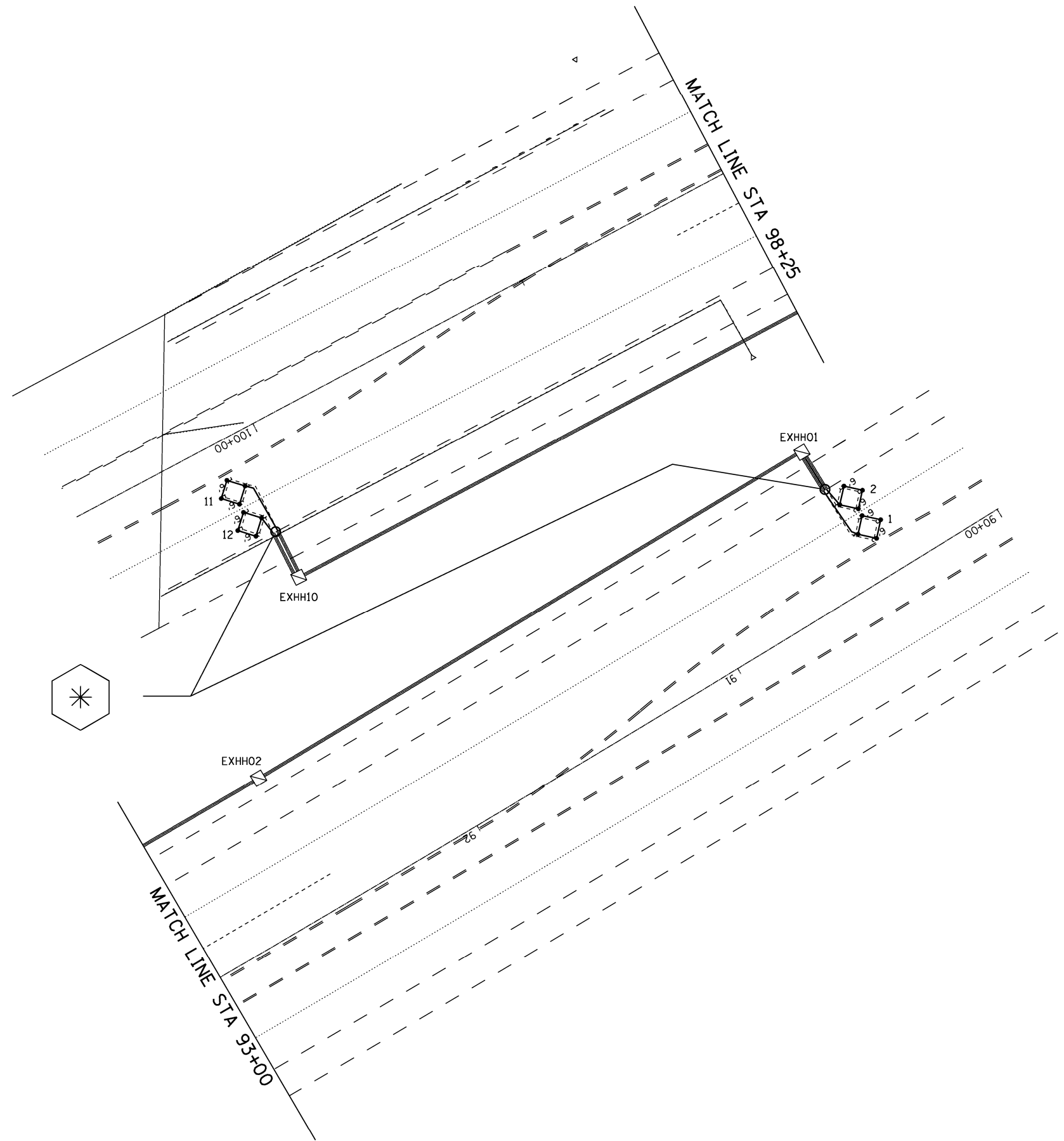
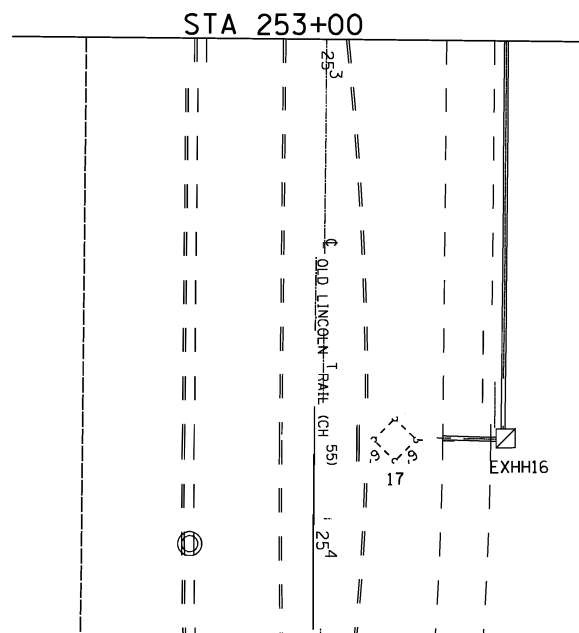
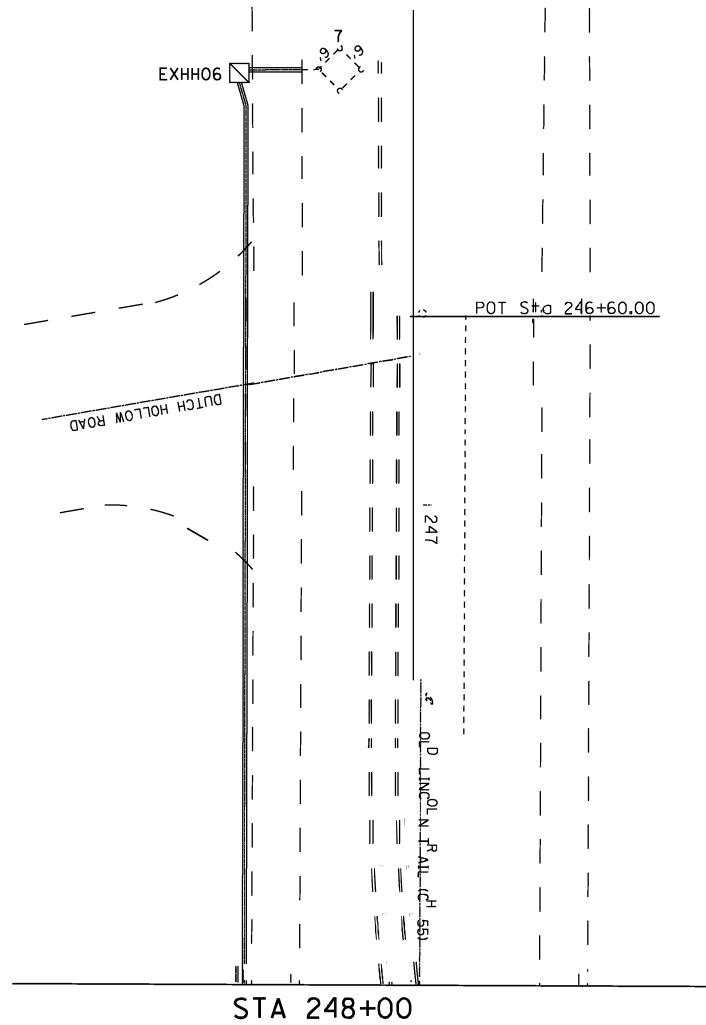
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 161 & LEBANON RD./OLD LINCOLN TRL
DETECTOR LOOP REPLACEMENT PLAN
1 OF 2

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147, 146) RS-5	ST. CLAIR	21	17
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				



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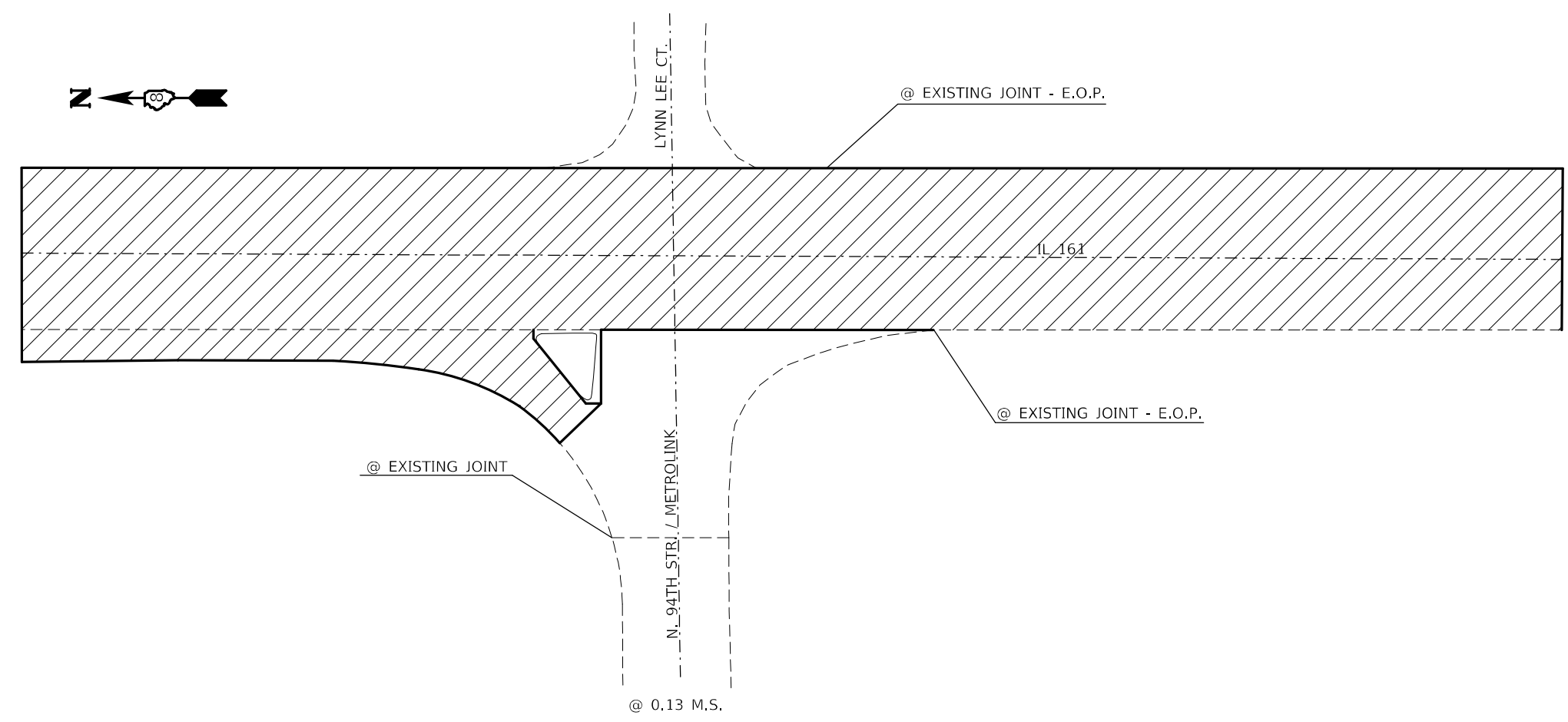
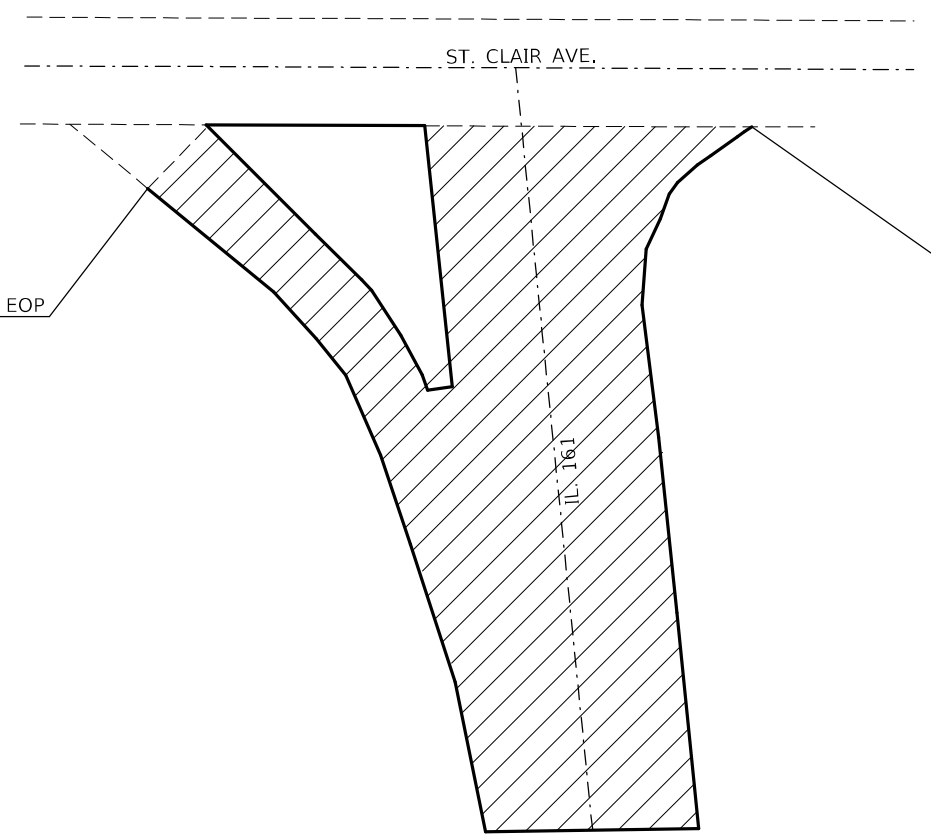
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 161 & LEBANON RD./OLD LINCOLN TRL.
DETECTOR LOOP REPLACEMENT PLAN
2 OF 2

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147, 146) RS-5	ST. CLAIR	21	18
CONTRACT NO. 76P37			ILLINOIS FED. AID PROJECT	



 RESURFACING LIMITS

NOT TO SCALE

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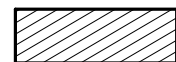
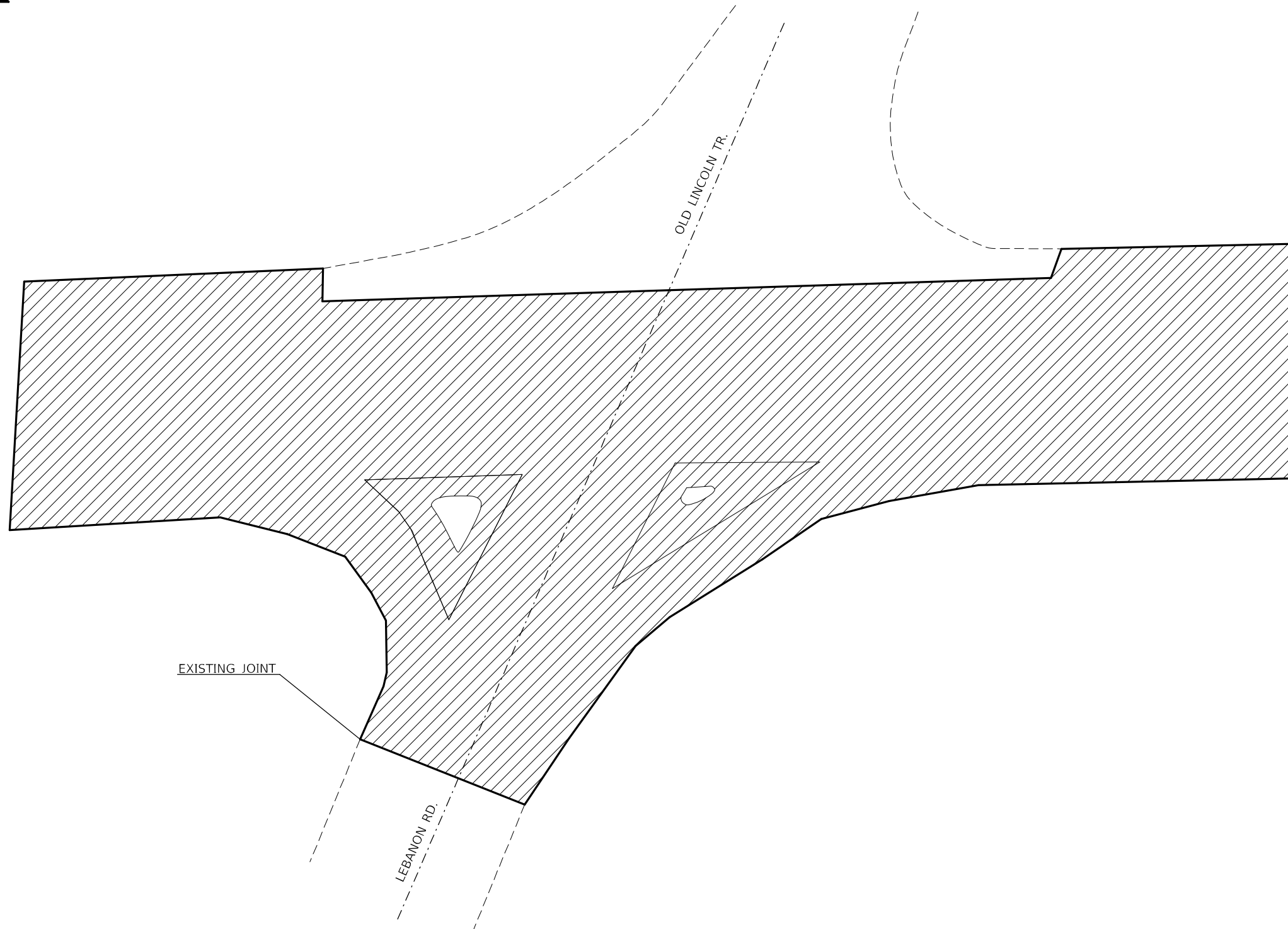
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PLOT DATE = 10/22/2021	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION DETAILS			
SCALE: _____	SHEET 1	OF 2 SHEETS	STA. _____ TO STA. _____

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147,146)RS-5	ST. CLAIR	21	19
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 76P37



RESURFACING LIMITS

NOT TO SCALE

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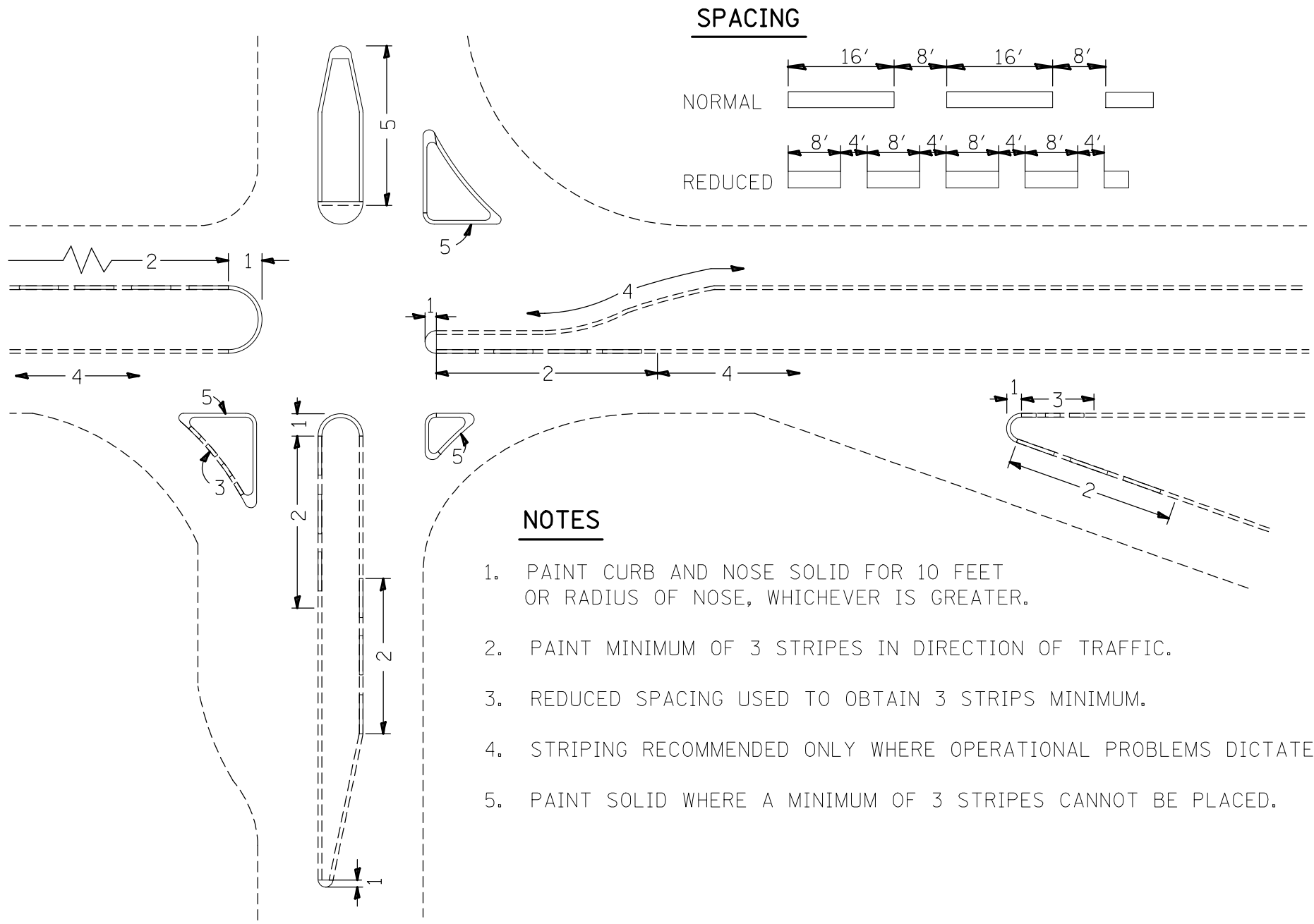
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION DETAILS

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147,146)RS-5	ST. CLAIR	21	20
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				

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NOTES

1. PAINT CURB AND NOSE SOLID FOR 10 FEET OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPS MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

CURB MARKING DETAIL

NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB MARKING DETAILS

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2,0159' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/21/2021	DATE - _____	REVISED - _____

SCALE: _____	SHEET 1	OF 1	SHEETS	STA. _____	TO STA. _____
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F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
805	(147,146)RS-5	ST. CLAIR	21	21
CONTRACT NO. 76P37				
ILLINOIS FED. AID PROJECT				