

PROPOSED ROADWAY PLANS VILLAGE OF TILTON TILTON CORRIDOR IMPROVEMENTS

SECTION 15-00033-02-PV

JOB NO. C-95-328-17

IL ROUTE 1

VERMILION COUNTY, ILLINOIS

FUNDING: ILLINOIS JOBS NOW

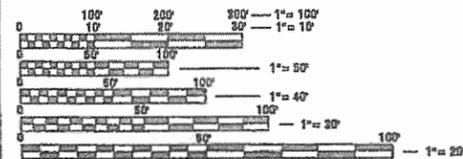
VILLAGE OFFICIALS

MAYOR DAVID PHILLIPS
 VILLAGE TRUSTEES JERRY BENNETT
 BOB FINLEY
 VIRGIL SHEETS
 JUDIE BARRETT
 EDGAR "BUD" SHAW
 DUTCH WANTLAND
 VILLAGE TREASURER TIFFANY JONES
 VILLAGE CLERK CONNIE WEDDLE

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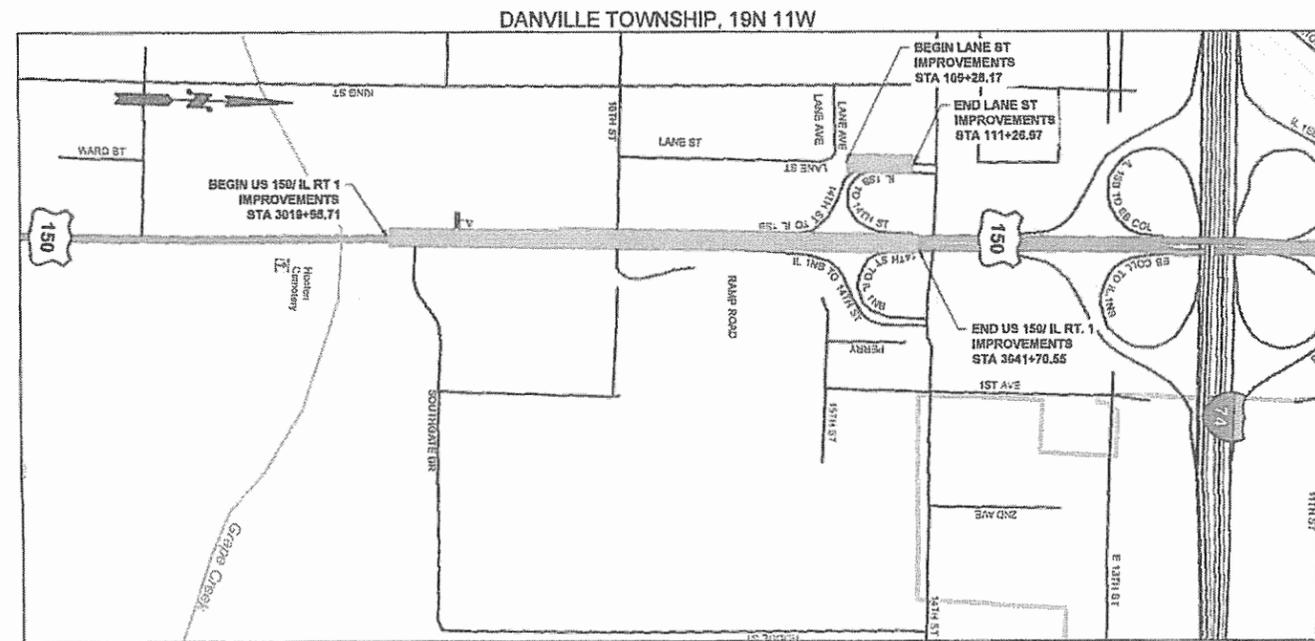
HIGHWAY STANDARDS, SEE SHEET 3



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.

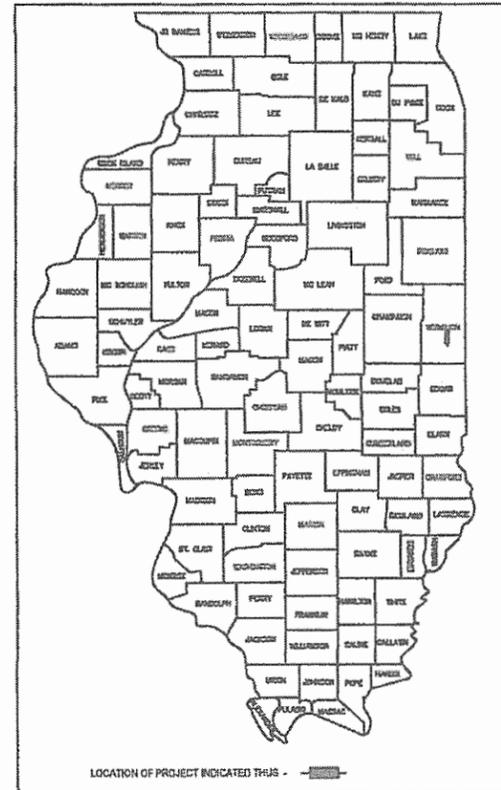


Phoenix Consulting Engineers, Ltd.
 Professional Design Firm No. 184.005835
 421 E. Main Street • Mahomet, IL 61853
 Ph 217-586-1803 • Fax 217-586-6757



LOCATION MAP
SCALE: NONE

LOCATION	FEET	MILES	FUNCTIONSL CLASSIFICATION	ADT (2035)	DESIGN SPEED
US 150 / ROUTE 1	2175	0.412	ARTERIAL	30,400	45
LANE ST	199	0.038	LOCAL ROAD	5,100	30
TOTAL	2374	0.450			



VILLAGE OF TILTON
 APPROVED *[Signature]*
 MAYOR, VILLAGE OF TILTON

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PASSED *[Signature]* MARCH 21, 2018
 DISTRICT 5 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW *[Signature]* March 21, 2018
 REGION 3 ENGINEER

[Signature]
 THOMAS L. OVERMYER, P.E.
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 022-049190
 EXPIRES NOVEMBER 30, 2017



J.U.L.I.E.
 NOTE: THE EXACT LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES. FOR UTILITY LOCATIONS CALL J.U.L.I.E. 1 (800) 392-0123

14TIL009
 1
 SHEET 1 OF 73

+5=78

HIGHWAY STANDARDS

GENERAL NOTES

NO.	DESCRIPTION
000001-06	ABBREVIATIONS, SYMBOLS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
602301-04	INLET TYPE A
602401-04	MANHOLE TYPE A
602306-03	INLET TYPE B
604001-04	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
606001-07	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606301-04	PC CONCRETE ISLAND AND MEDIANS
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-ROAD OPERATIONS
701101-05	OFF-ROAD OPERATIONS, MULTILANE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP
701422-10	LANE CLOSURE, MULTILANE
701427-05	LANE CLOSURE, MULTILANE, MOVING OPERATIONS
701502-08	URBAN LANE CLOSURE, 2L, 2W, BI-DIRECTIONAL TURN LANE
701801-06	SIDEWALK CLOSURES
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
878001-10	CONCRETE FOUNDATION DETAILS
DIST 5 70200000	ROAD & SIDEROAD CLOSURES
DIST 5 7800AAAA	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION", ADOPTED 2014, THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION, NOR SAFETY ON THE JOB SITE, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER NOR THE PRESENCE OF THE ENGINEER AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.

IN ADDITION, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SHALL BE MODIFIED AS FOLLOWS:

UNDER SECTION 105.01, ADD THE FOLLOWING SENTENCE:

NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF ITS DUTY TO OBSERVE AND COMPLY WITH ALL APPLICABLE LAWS, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR CONTRACTOR'S COMPLIANCE OR NON-COMPLIANCE WITH SUCH LAWS.

UNDER SECTION 107.01, ADD THE FOLLOWING SENTENCE:

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S DUTY TO OBSERVE AND COMPLY WITH THE PROVISIONS OF THIS SECTION, OR FOR CONTRACTOR'S FAILURE TO DO SO.
- EXISTING VILLAGE-OWNED AND MAINTAINED UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE UTILITIES WITH THE VILLAGE PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE UTILITIES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE VILLAGE.
- UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED AND THEIR ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY. THESE UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED.
- J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM. 1-800-892-0123 OR 811.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGE TO THEM RESULTING FROM HIS OPERATIONS.
- ANY STANDARDS REFERENCED THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST HIGHWAY STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AS SHOWN ON THE SCHEDULE OF HIGHWAY STANDARDS ON THE HIGHWAY STANDARDS AND LEGEND SHEET.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE OWNER OR OCCUPANTS. THE COST OF AGGREGATE FOR TEMPORARY ACCESS IS INCLUDED IN PAVEMENT SCHEDULE.
- ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED, UNLESS OTHERWISE NOTED.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. PAYMENT SHALL ONLY BE MADE FOR DISTURBANCE WITHIN THE CONSTRUCTION LIMITS. DISTURBANCE OUTSIDE OF CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL.
- WHEN REQUIRED BY ARTICLE 420.18, A PROTECTIVE COAT SHALL BE APPLIED TO CONCRETE PAVEMENT, GUTTER FLAGS, CURB SURFACES AND OTHER CONCRETE APPURTENANCES ADJACENT TO THE PAVEMENT INCIDENTAL TO CONCRETE PLACEMENT.
- TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

- GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POST, SHRUBS, TREES OR OTHER NATURAL OR MANMADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION ARE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- RIM ELEVATIONS ON CURB CASTINGS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MARKERS, RIGHT-OF-WAY MONUMENTS AND PROPERTY MARKERS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER (PH. 217-586-1803) AND THE VILLAGE OF TILTON (PH. 217-477-0800) AT LEAST 72 HOURS IN ADVANCE OF THE START OR RESTART OF CONSTRUCTION.
- EXCAVATION FOR STRUCTURES SHALL INCLUDE ALL MATERIALS ENCOUNTERED, REGARDLESS OF THEIR NATURE IN ACCORDANCE WITH SECTION 502.03
- THE CONTRACTOR SHALL DISPOSE OF ALL REMOVAL ITEMS OFF OF THE RIGHT-OF-WAY.
- ALL DESIGNATED PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF MANHOLES.
- BEFORE ORDERING DRAINAGE STRUCTURES OR PIPES, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR EXACT LENGTHS, SIZES AND QUANTITIES REQUIRED.
- WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES, THE LOCATION, ELEVATION AND SIZE OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE ENGINEER IF THE EXISTING PIPING OR STRUCTURE IS FOUND TO BE DIFFERENT THAN WHAT IS SHOWN ON THE DRAWINGS. WHERE SUCH DISCREPANCY IS FOUND, WORK SHALL NOT PROCEED UNTIL DIRECTED ACCORDINGLY BY THE ENGINEER.
- COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- WHERE SECTION OR SUBSECTION MONUMENTS, BENCHMARKS, OR IRON PIPE MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN ILLINOIS REGISTERED LAND SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN ILLINOIS REGISTERED LAND SURVEYOR RE-ESTABLISH AND MONUMENTS UNNECESSARILY DESTROYED BY HIS OR HER OPERATIONS.
- ALL STREET RETURNS HAVE RADII DESIGNATED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.
- ONLY EXISTING PAVEMENT, BASE COURSES AND DRIVEWAY PAVEMENTS COMPOSED OF PORTLAND CEMENT CONCRETE, ASPHALT OR BRICK WILL BE MEASURED AND PAID FOR AS "PAVEMENT REMOVAL" OR "DRIVEWAY PAVEMENT REMOVAL" AS THE CASE MAY BE IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PAVEMENT REMOVAL ITEMS DUE TO VARIATIONS IN PAVEMENT TYPES, THICKNESSES OR AMOUNT OF REINFORCEMENT. THE ADJUSTMENT OF QUANTITIES AS SPECIFIED IN ARTICLE 444.07 OF THE STANDARD SPECIFICATION SHALL NOT APPLY. REMOVAL OF OTHER TYPES OF PAVEMENT COMPOSITION SUCH AS AGGREGATE OR A MIX OF AGGREGATE/OIL AND CHIP WILL BE MEASURED AND PAID FOR AS "EARTH EXCAVATION" IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATION.
- WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES, THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE ENGINEER IF THE EXISTING PIPING OR STRUCTURE IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS. WHERE SUCH DISCREPANCY IS FOUND, WORK SHALL NOT PROCEED UNTIL DIRECTED ACCORDINGLY BY THE ENGINEER.
- WHERE THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER JOINS THE EXISTING CURB AND GUTTER. A TRANSITION BETWEEN THE TWO CONFIGURATIONS MAY BE REQUIRED. THIS WORK WILL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR CURB AND GUTTER OF THE SIZE AND TYPE SPECIFIED IN THE PLANS.

SHEET LEGEND

	EX. CENTERLINE		EX. STORM MANHOLE (CLOSED LID)		EX. UTILITY POLE
	SECTION LINE		EX. STORM MANHOLE (OPEN LID)		EX. TELEPHONE POLE
	PROPERTY LINE		EX. CURB INLET		EX. TRAFFIC SIGNAL
	EX. RIGHT-OF-WAY LINE		EX. FLARED END SECTION		EX. SIGN
	EX. SANITARY SEWER		EX. SANITARY MANHOLE		EX. DECIDUOUS TREE
	EX. STORM SEWER		EX. SANITARY CLEANOUT		EX. DECIDUOUS BUSH
	EX. OVERHEAD AERIAL		EX. FIRE HYDRANT		EX. EVERGREEN TREE
	EX. WATERMAIN / WATER SERVICE		EX. WATER VALVE		EX. EVERGREEN BUSH
	EX. 4" WATERMAIN		EX. WATER METER		EX. STUMP
	EX. 6" WATERMAIN		EX. WATER CURB STOP		EX. FLAG POLE
	EX. 12" WATERMAIN		EX. WATER MANHOLE		EX. BOLLARD
	EX. UNDERGROUND CATV		EX. GAS VALVE		EX. MAIL BOX
	EX. UNDERGROUND TELEPHONE		EX. GAS CURB STOP		EX. LAMP POST
	EX. UNDERGROUND ELECTRIC		EX. TELEPHONE PEDESTAL		EX. ELECTRICAL TRANSFORMER
	EX. OVERHEAD ELECTRIC		EX. TELEPHONE MANHOLE		EX. WOOD POLE
	EX. OVERHEAD TELEPHONE		EX. CATV PEDESTAL		EX. ROW MARKER
	EX. OVERHEAD CATV		EX. HANDHOLE		SURVEY MARKER
	EX. GAS LINE		EX. LIGHT POLE		IRON PIPE / PIN FOUND
	EX. FENCE				SET CONTROL POINT
	EX. RAILROAD TRACKS				HOUSE NUMBER
	EX. CULTIVATION LINE				STRUCTURE NUMBER
	EX. CONTOUR				

MISCELLANEOUS KEYS

KEY	NOTATION	AS SHOWN IN:	KEY	NOTATION	AS SHOWN IN:
	SECTION NUMBER	NOTES ON DRAWINGS:		DETAIL NUMBER	NOTES ON DRAWINGS:
	SHEET NUMBER WHERE TAKEN & SHOWN	SCHEDULES & SPECS		SHEET NUMBER WHERE TAKEN & SHOWN	SCHEDULES & SPECS
	SECTION NUMBER			DETAIL NUMBER	
	SHEET NUMBER WHERE TAKEN			SHEET NUMBER WHERE TAKEN	
	SHEET NUMBER WHERE SHOWN			SHEET NUMBER WHERE SHOWN	

HMA MIXTURE REQUIREMENTS TABLE

LOCATION	RTE 1 & SOUTHGATE DR	RTE 1 & SOUTHGATE DR
MIXTURE USE:	POLYMER SURFACE	POLYMER LEVEL BINDER
AC / PG	SBS PG 70-22	SBS PG 70-22
DESIGN AIR VOIDS	4.0% @ N _{DES} = 70	4.0% @ N _{DES} = 70
MIX COMPOSITION (GRADATION)	IL-9.5	IL-9.5 F.G.
FRICTIONAL AGGREGATE	MIX D	N/A
MIXTURE WEIGHT	112.0 LBS / SQ YD / INCH	112.0 LBS / SQ YD / INCH
QUALITY MANAGEMENT PROGRAM	QA/QC	QA/QC
SUBLOT SIZE	N/A	N/A

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE OR BACKFILL)	2.05 TON/CU YD
SUBBASE GRANULAR MATERIAL, TYPE A	2.05 TON/CU YD
HOT-MIX ASPHALT BITUMINOUS MATERIAL (PRIME COAT)	
-ON PAVEMENT	0.1 GAL / SQ YD (.851 LBS/SQ YD)
-ON AGGREGATE	0.3 GAL / SQ YD (2.55 LBS / SQ YD)
HOT-MIX ASPHALT SURFACE / BINDER COURSES (112 LBS.)	.0056 TON / SQ YD * IN

NEWWAVE COMMUNICATIONS (CABLE) 1219 N. STATE ST. WESTVILLE, IL 61883 (217) 663-9844 DANNY RUDD	AT&T (TELECOMMUNICATIONS) 201 S. NEIL ST CHAMPAIGN, IL 61820 (217) 398-7979 MIKE MURPHY	COMCAST (CABLE TELEVISION) 303 E. FAIRLAWN DR. URBANA, IL 61801 (217) 202-2644 ROBERT VALENTINE	NOW WIRELESS, LLC (TELECOMMUNICATIONS) 607 S. STATE ST. JERSETVILLE, IL 62052 (618) 946-5940 JOE MCKENNON	VILLAGE OF TILTON (STORM/SANITARY SEWER) 1001 TILTON ROAD TILTON, IL 61833 (217) 477-0800 MAYOR DAVID PHILLIPS	AMEREN IP -(NORTH) (POWER AND GAS) 115 E. VOORHEES ST. SUITE B, MC Q-15 DANVILLE, IL 61832 (217) 431-9703 QUINTON COMBS	AQUA ILLINOIS, INC. (WATER) 322 N. GILBERT ST. P.O. BOX 1130 DANVILLE, IL 61834 (217) 442-3063 EXT. 58131 ANDY PRICE
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Phoenix Consulting Engineers, Ltd.
Professional Design Firm No. 184,0005833
421 E. Main Street • Mahomet, IL 61853
Ph 217-586-1803 • Fax 217-586-6757



GENERAL NOTES
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

NO.	DATE	BY	DESCRIPTION
1	3/28/17	LDW	DOT REVIEW COMMENTS
2	3/29/18	BWS	UPDATED HIGHWAY STANDARDS REVISIONS

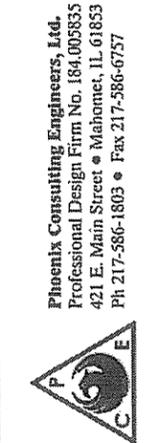
PROJECT NO.
14TIL009

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	2850
20800150	TRENCH BACKFILL	CU YD	10
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	488
25000100	SEEDING, CLASS 1	ACRE	3.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	312
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	312
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	312
25100125	MULCH, METHOD 3	ACRE	3.5
25200100	SODDING	SQ YD	488
25200200	SUPPLEMENTAL WATERING	UNIT	3.0
28000400	PERIMETER EROSION BARRIER	FOOT	1338
28000500	INLET AND PIPE PROTECTION	EACH	34
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	1075
31100300	SUBBASE GRANULAR MATERIAL, TYPE A, 4"	SQ YD	2524
* 35301400	PORTLAND CEMENT CONCRETE BASE COURSE (VARIABLE DEPTH)	SQ YD	2373
40900290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24137
* 40900847	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N90	TON	1256
40900882	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1327
40900990	TEMPORARY RAMP	SQ YD	213
40903545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1191
42000301	PORTLAND CEMENT PAVEMENT 8" (JOINTED)	SQ YD	2103
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	484
42400800	DETECTABLE WARNINGS	SQ FT	15
44000100	PAVEMENT REMOVAL	SQ YD	6291
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1516
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	95
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2491
44000600	SIDEWALK REMOVAL	SQ FT	490
44001980	CONCRETE BARRIER REMOVAL	FOOT	780
44213200	SAW CUTS	FOOT	2937
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2005
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	1.1
54248510	CONCRETE COLLAR	CU YD	1.0
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	70
* 58109210	WATER VALVES TO BE ADJUSTED	EACH	1
* 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	27
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	11
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	4
60255500	MANHOLES TO BE ADJUSTED	EACH	5
60250100	INLETS TO BE ADJUSTED	EACH	3
60250400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5
60500040	REMOVING MANHOLES	EACH	9
60500060	REMOVING INLETS	EACH	16
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	427
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	489

* DENOTES SPECIAL PROVISION

Δ SPECIALTY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1574
* 60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	1153
63200310	GUARDRAIL REMOVAL	FOOT	484
67100100	MOBILIZATION	L SUM	1
68900200	NON-SPECIAL WASTE DISPOSAL	CU YD	650
68900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
68900530	SOIL DISPOSAL ANALYSIS	EACH	6
70100800	CHANGEABLE MESSAGE SIGN	CAL MO	2
70300100	SHORT TERM PAVEMENT MARKING	FOOT	573
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	191
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	21958
70300250	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	72
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1
72000100	SIGN PANEL - TYPE 1	SQ FT	6
72400100	REMOVE SIGN PANEL ASSEMBLY-TYPE A	EACH	19
72400310	REMOVE SIGN PANEL TYPE 1	SQ FT	10
72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	120
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	450
72900200	METAL POST - TYPE B	FOOT	14
73400100	CONC FOUNDATION	CU YD	2
* 73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	2
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	593
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	9503
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	45
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	249
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3940
81028350	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	188
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	370
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	291
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	1
81500130	GULFBOX JUNCTION REMOVAL	EACH	5
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	430
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	10380
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	4
84200804	REMOVAL OF POLE FOUNDATION	EACH	8
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1790
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4280
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5840
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5860
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1470
87502640	TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	EACH	2



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SUMMARY OF QUANTITIES
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	DOT REVIEW COMMENTS
2	3/19/18	BWS	REVISED QUANTITIES

DRAWN BY: MLN	DESIGN BY: MLN
DATE: 2/23/17	DATE: 2/23/17
CHECKED BY: BWS	DATE: 2/23/17
APPROVED BY: TLO	DATE: 2/23/17

PROJECT NO.	14TIL009
SHEET	3 OF 73

PAVEMENT SCHEDULE																			
FROM STATION	TO STATION	31100100 SUB GRAN MAT A (TON)	31100300 SUB GRAN MAT A 4 (SQ YD)	35301400 PCC BSE CSE VAR DEPTH (SQ YD)	40600290 BIT MATLS TACK CT (POUND)	40600847 P LB MM IL- 9.5FG N90 (TON)	40600982 HMA SURF REM BUTT JT (SQ YD)	40600990 TEMPORARY RAMP (SQ YD)	40603545 P HMA SC "D" N90 (TON)	42000301 PCC PVMT 8 (JOINTED) (SQ YD)	42400300 PCC SIDEWALK 6 (SQ FT)	42400800 DETECT WARNING (SQ FT)	44300200 STRIP CRACK CONTROL (FOOT)	60603800 COMB CC&G TB6 12 (FOOT)	60604400 COMB CC&G TB6 18 (FOOT)	60605000 COMB CC&G TB6 24 (FOOT)	60605100 COMB CC&G TB6 24 (AEP) (FOOT)	X6060102 CONC MED, TSM6 12 SPL (SQ FT)	
US 150 / IL RTE 1																			
3025+90.00	3033+35.63	320		737	10113	557	350	59	499		484		719				307	620	4188
3033+35.63	3041+70.00	755		1636	14024	709	977	47	692				1286				957	533	3349
RAMP ROAD																			
29+10.62	29+55.00		482							433									
30+45.00	30+89.86		530							491									
16TH STREET																			
30+25.55	30+65.00		186					48		186		15							
31+45.00	31.94.38		317					60		276									
LANE STREET																			
109+29.17	111+69.00		1009							717				427	122	309			40
TOTALS		1075	2524	2373	24137	1266	1327	213	1191	2103	484	15	2005	427	499	1574	1153		7577

PREPARED BY: MLN 11/14/16
CHECKED BY: BWS 10/16/17

REVISED 3/16/18

TEMPORARY PAVEMENT MARKING SCHEDULE					
FROM STATION	TO STATION	70300100 SHORT TERM PVT MK LINE 4 (FOOT)	70300150 SHORT TERM PVT MK REMOVALS (SQ FT)	70300220 TEMP PVT MK LINE 4 (FOOT)	70300260 TEMP PVT MK LINE 12 (FOOT)
ROUTE 1 STAGE 1					
3024+84.11	3042+76.80	144	48	11332	
ROUTE 1 STAGE 2					
3026+30.59	3042+76.80	429	143	10626	72
TOTALS		573	191	21958	72

PREPARED BY: MLN 11/14/16
CHECKED BY: BWS 1/9/17
REVISED 3/16/18

PAVEMENT MARKING SCHEDULE						
FROM STATION	TO STATION	78009000 MOD URETH PM LTR- SYM (SQ FT)	78009004 MOD URETH PM LINE 4 (FOOT)	78009012 MOD URETH PM LINE 12 (FOOT)	78009024 MOD URETH PM LINE 24 (FOOT)	X0327979 PAVMT MRKG REM GRIND (SQ FT)
US 150 / IL RTE 1						
3025+90.00	3033+35.63	239	3797	45	61	4418
3033+35.63	3041+70.00	265	4990		60	4019
RAMP ROAD						
29+10.62	29+55.00	42	91		37	
30+45.00	30+89.86	31	130		47	
16TH STREET						
30+25.55	30+65.00				12	
31+45.00	31.94.38	16	10		32	
LANE STREET						
109+29.17	111+69.00		485			
TOTALS		593	9503	45	249	8437

PREPARED BY: MLN 11/16/16
CHECKED BY: BWS 10/17/17
REVISED 3/16/18

SIGN SCHEDULE												
FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	TYPE	72000100 SIGN PANEL - TYPE 1 (SQ FT)	72400100 REMOV SIN PAN ASSY TA (EACH)	72400310 REMOVE SIGN PANEL TY 1 (SQ FT)	72400730 RELOC SIN PAN T3 (SQ FT)	72700100 STR STL SIN SUP BA (POUND)	72900200 METAL POST - TYPE B (FOOT)	73400100 CONC FOUNDATI ON (CU YD)	73700200 REM CONC FDN-GR MT (EACH)
US 150/IL RTE 1												
3032+95	41.06' RT			STREET SIGN		1						
3037+36	32.64' LT			LANE MERGING		1						
3038+33	41.89' RT			EXIT SIGN		1						
3038+73	50.46' RT	3038+73	67.48' RT	I-74 SIGN			120	450		2.0	2	
3038+88	209.14' RT			STOP SIGN AHEAD		1						
3039+22	207.39' LT			STOP SIGN AHEAD		1						
3039+83	47.97' LT			EXIT SIGN		1						
3039+88	336.35' RT			WRONG WAY		1						
3040+05	310.70' RT			WRONG WAY		1						
3040+13	35.00' RT			LANE MERGING		1						
3040+20	69.98' LT			SPEED SIGN		1						
3041+25	329.07' RT			WRONG WAY		1						
3041+27	367.03' RT			WRONG WAY		1						
3041+36	55.35' LT			STREET SIGN		1						
3041+61	331.38' RT			DO NOT ENTER		1						
3041+80	281.95' RT			FREEWAY ENTRANCE		1						
3041+85	372.776' RT			ONE WAY		1						
3042+07	332.98' RT			STOP SIGN		1						
3042+09	333.26' RT			KEEP RIGHT		1						
3042+11	214.94' RT			ROAD SIGN		1						
LANE STREET												
112+82	42.80' LT						10					
16TH STREET												
31+55	41.65' LT				6.25				13.5			
TOTALS					6	19	10	120	450	14	2	2

PREPARED BY: BWS 11/14/16
CHECKED BY: MLN 3/15/17

PAVEMENT REMOVAL SCHEDULE										
FROM STATION	TO STATION	44000100 PAVEMENT REMOVAL (SQ YD)	44000158 HMA SURF REM 2 1/4 (SQ YD)	44000200 DRIVEWAY PAVEMENT REMOVAL (SQ YD)	44000500 CURB AND GUTTER REMOVAL (FOOT)	44000600 SIDEWALK REMOVAL (SQ FT)	44001980 CONCRETE BARRIER REMOVAL (FOOT)	44213200 SAW CUTS (FOOT)	63200310 GUARDRAIL REMOVAL (FOOT)	X4400198 CONCRETE BARRIER REM (FOOT)
US 150 / IL RTE 1										
3025+90.00	3033+35.63	314	1516	96	1049		147	1212	257	393
3033+35.63	3041+75.64	1512			1333		633	1725	208	
RAMP A										
		915								
RAMP B										
		1091								
RAMP C										
		522								
RAMP D										
		542								
16TH STREET										
30+25.55	30+65.00	196			45	490				
31+45.00	31.94.38	331			64					
LANE STREET										
109+29.17	111+69.00	868								
TOTALS		6291	1516	96	2491	490	780	2937	464	393

PREPARED BY: MLN 1/11/17
CHECKED BY: BWS 3/16/17
REVISED 3/19/18



SCHEDULE OF QUANTITIES
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	UPDATED SCHEDULES, ADDED SPECIAL WASTE SCHED.
2	11/21/17	BWS	CORRECTED SCHEDULES
3	3/19/18	BWS	REVISED SCHEDULES

PROJECT NO. 14TIL009
DATE: 2/23/17
APPVD BY: TLO
DATE: 2/23/17

DRAINAGE STRUCTURE SCHEDULE										
STR NO.	STATION	OFFSET	RIM ELEV.	INVERT ELEVATIONS				60235700	60240220	
				N	S	E	W	INLETS TA	INLETS TB	
								T3 F&G	T3 F&G	
				(EACH)	(EACH)					
US 150 / IL RTE 1										
50	3028+96.62	41.53	LT	639.05			636.14		1	
53	3029+59.04	55.73	RT	639.73			635.70	635.67	1	
56	3031+20.00	47.00	RT	641.23				638.83	1	
57	3035+11.22	47.00	LT	640.67			637.35	637.52	1	
58	3035+11.44	47.00	RT	640.67				636.23	1	
59	3036+09.45	47.00	LT	640.41	638.18				1	
60	3036+76.20	47.00	RT	640.23			637.06		1	
61	3036+88.45	47.00	LT	640.20		636.43	636.33		1	
62	3037+32.03	47.00	RT	640.08			634.86	634.91	1	
63	3038+11.76	47.00	RT	639.87			632.62		1	
64	3038+14.29	47.00	LT	639.86				637.31	1	
65	3038+92.69	47.00	RT	639.65			633.16		1	
66	3039+77.14	46.60	LT	639.43	636.20				1	
67	3040+42.31	47.00	RT	639.21	635.39				1	
68	3040+63.25	47.00	RT	639.19		635.20	634.99	634.93	1	
TOTALS									11	4
PREPARED BY: MLN 11/17/16										
CHECKED BY: BWS 10/16/17										

PIPE SCHEDULE									
PIPE NUMBER	FROM STRUCTURE		TO STRUCTURE		PIPE SLOPE %	20800150	54248510	550A0050	
	NUMBER	INV. ELEV.	NUMBER	INV. ELEV.		TRENCH BACKFILL	CONCRETE COLLAR	STORM SEW CL A 12	
						(CU YD)	(CU YD)	(FOOT)	
US 150 / IL RTE 1									
P50	50	636.04	EXIST	636.00	0.50%	1.1		8	
P56	56	638.83	EXIST	638.78	0.50%	1.3		10	
P57	57	637.35	EXIST	637.32	0.60%	0.8	0.2	5	
P58	58	636.23	EXIST	636.13	3.00%	0.8		3	
P58.1	EXIST	636.82	EXIST	636.21	MATCH EX	0.4	0.2	2	
P60	60	637.06	EXIST	636.89	2.00%	0.5	0.2	8	
P62	62	634.91	EXIST	634.71	1.50%	1.0		13	
P67	67	635.40	68	635.20	1.00%	4.5		21	
TOTALS						10	1	70	
PREPARED BY: MLN 11/18/16									
CHECKED BY: BWS 3/15/17									
REVISED 3/16/18									

SEEDING AND EROSION CONTROL SCHEDULE										
FROM STATION	TO STATION	25000110	25000400	25000500	25000600	25100125	25200100	25200200	28000400	28000500
		SEEDING CLASS 1A (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)	MULCH, METHOD 3 (ACRE)	SODDING (SQ YD)	SUPPLEMENTAL WATERING (UNIT)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECT (EACH)
US 150 / IL RTE 1										
3025+90	3033+35.63	0.2	18.5	18.5	18.5	0.2				11
3033+35.63	3041+75.64	2.1	184.8	184.8	184.8	2.1			1048	15
RAMP ROAD										
29+10.62	29+55.00	0.05	4.5	4.5	4.5	0.1			110	
30+45.00	30+89.86	0.03	2.7	2.7	2.7	0.0				
16TH STREET										
30+25.55	30+65.00									
31+45.00	31.94.38	0.1	4.5	4.5	4.5	0.1				
LANE STREET										
109+29.17	111+69.00	1.0	96.6	96.6	96.6	1.0	488	3.0	178	8
TOTALS		3.5	312	312	312	3.5	488	3.0	1336	34
PREPARED BY: BWS 11/14/16										
CHECKED BY: MLN 3/15/17										
REVISED 3/16/18										

EARTHWORK SCHEDULE						
FROM STATION	TO STATION	20200100	21101615			
		A	B	C	D	
		EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT, ADJUSTED FOR SHRINKAGE (25%) (CU YD)	EMBANKMENT (FILL AREAS) (CU YD)	EARTHWORK BALANCE EXCESS (+), SHORTAGE (-) (CU YD)	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)
US 150 / IL RTE 1						
3025+90.00	3033+35.63	415	311	149	162	
3033+35.63	3041+70.00	1,011	758	591	168	
RAMP ROAD						
29+10.62	29+55.00	129	97	2	95	
30+45.00	30+89.86	308	231	2	229	
16TH STREET						
30+25.55	30+65.00	4	3	10	-7	
31+45.00	31.94.38	106	79	22	58	
LANE STREET						
109+29.17	111+69.00	827	620	163	458	488
TOTALS		2800	2100	938	1162	488
PREPARED BY: MLN 11/28/16						
CHECKED BY: BWS 3/15/17						
REVISED 3/16/18						

SPECIAL WASTE SCHEDULE						
FROM STATION	TO STATION	FROM OFFSET	TO OFFSET	66900200	66900450	66900530
				NON-SPECIAL WASTE (CU YD)	SPECIAL WASTE PLANS AND (L SUM)	SOIL DISPOSAL ANALYSIS (EACH)
US 150 / IL RTE 1						
3019+62	3041+70	0	135 LT/RT		1	6
3019+62	3020+71	0	90 LT	4		
3019+62	3020+67	0	85 RT	4		
3020+67	3021+92	0	80 RT	5		
3025+90	3027+91	0	70 RT	0		
3027+91	3029+26	0	100 RT	65		
3027+90	3029+28	0	55 LT	7		
3029+28	3031+78	0	50 LT	26		
3031+78	3032+55	0	50 LT	30		
3032+55	3033+36	0	90 LT	142		
3029+26	3030+93	0	85 RT	97		
3031+54	3032+30	0	60 RT	55		
3034+21	3034+89	0	60 RT	52		
3037+77	3038+23	80	135 RT	0		
3034+72	3036+36	0	65 LT	50		
3040+07	3041+69	0	90 RT	46		
CONTINGENCY				67		
TOTALS				650	1	6
PREPARED BY: BWS 10/27/17						
CHECKED BY:						

MISCELLANEOUS REMOVAL / ADJUSTMENT SCHEDULE											
FROM STATION	TO STATION	56109210	59300100	60255500	60260100	60260400	60300305	60500040	60500060	70600340	Z0001110
		W VALVES TO BE ADJ. (EACH)	CTRL LOW STR MAT (CU YD)	MANHOLES TO BE ADJ. (EACH)	INLETS TO BE ADJ. (EACH)	INL TBA W/ NEW T1 F CL (EACH)	FR & L TO BE ADJUSTED (EACH)	REMOVING MANHOLES (EACH)	REMOVING INLETS (EACH)	IMP ATTN REL NRD TL2 (EACH)	GAS VALVE TO BE ADJ (EACH)
US 150 / IL RTE 1											
3025+90.00	3033+35.63	1	2	2	1	1	4	1	1		1
3033+35.63	3041+70.00		25	2			4	8	15	1	
LANE STREET											
109+28.17	111+69.79			1	2						
TOTALS		1	27	5	3	1	8	9	16	1	1
PREPARED BY: MLN 11/17/16											
CHECKED BY: BWS 3/15/17											
REVISED 3/16/18											

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421 E. Main Street • Mahomet, IL 61853
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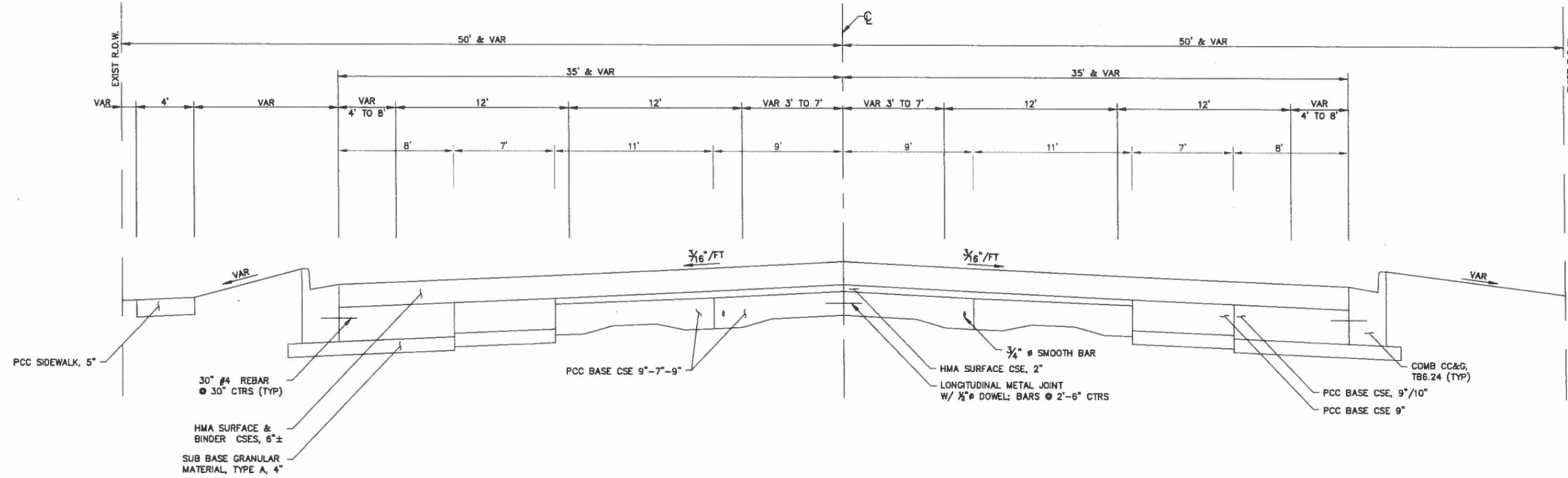
SCHEDULE OF QUANTITIES

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

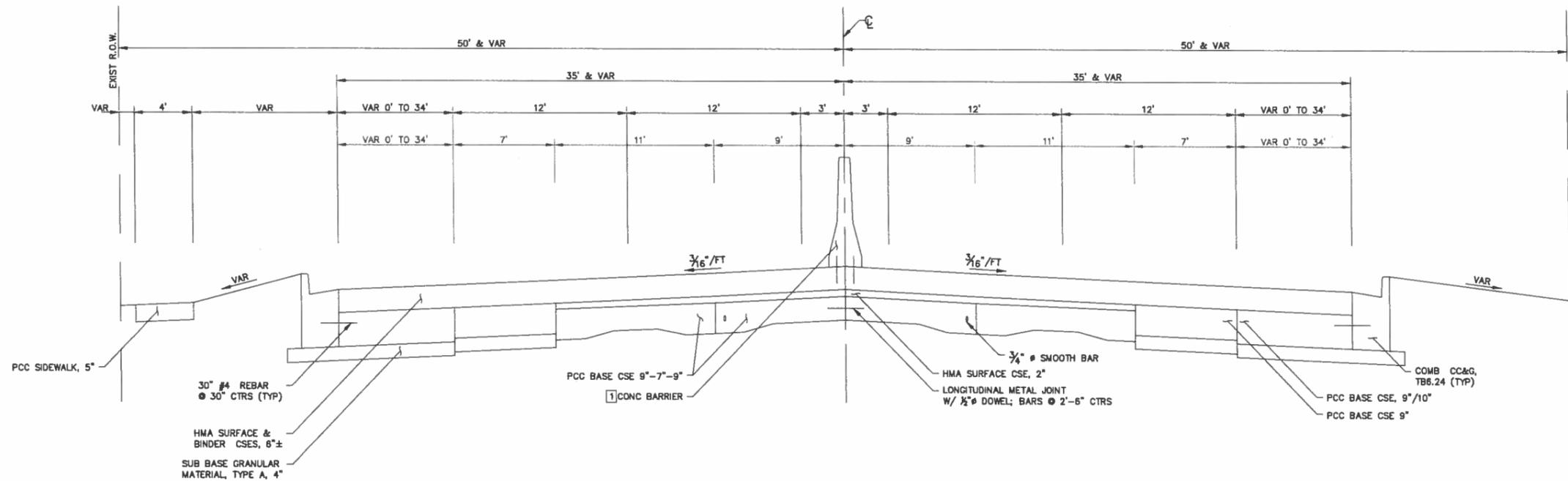
NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	UPDATED SCHEDULES, ADDED SPECIAL WASTE SCHEDULES
2	11/21/17	BWS	CORRECTED SCHEDULES
3	3/16/18	BWS	REVISED SCHEDULES

PROJECT NO.
14TIL009

6
SHEET 6 OF 73



EXISTING TYPICAL SECTION - ROUTE 1
STA 3025+90.01 TO STA 3027+96.00



EXISTING TYPICAL SECTION - ROUTE 1
STA 3027+96.00 TO STA 3041+70.50

1 PINNED TEMP CONC BARRIER
START STA 3027+96.00
END STA 3031+88.00
CAST-IN-PLACE CONC BARRIER
START STA 3031+88.00

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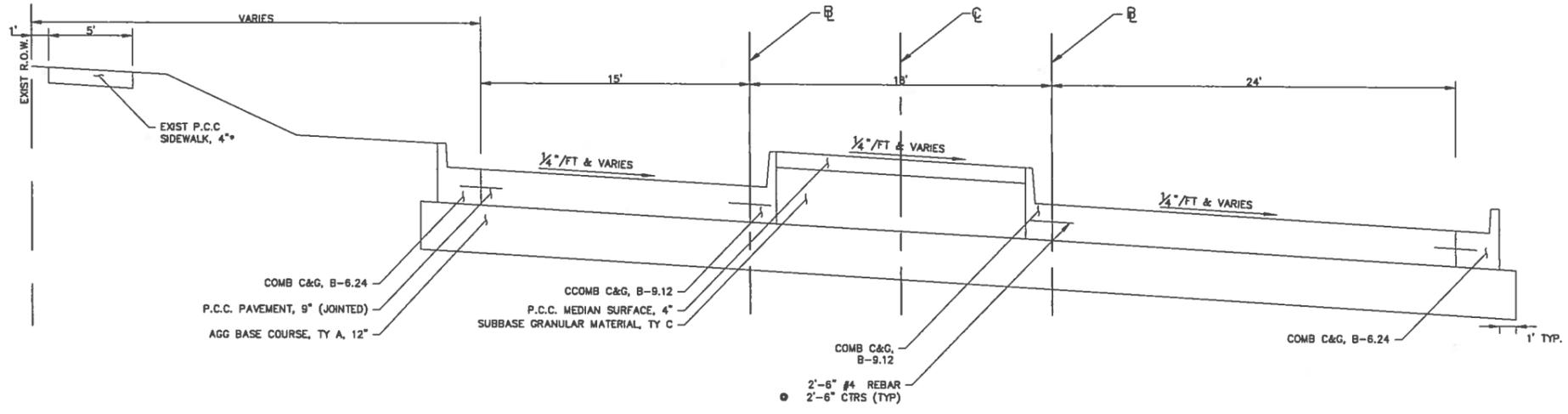


EXISTING TYPICAL SECTIONS - ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW	DATE: 2/23/17
DESIGN BY: JOW	DATE: 2/23/17
CHECKED BY: MLN	DATE: 2/23/17
APPROVED BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION

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EXISTING TYPICAL SECTION - RAMPS C & D

RAMP C STA 303+94 TO STA 307+33.86
 RAMP D STA 400+23 TO STA 401+85

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EXISTING TYPICAL SECTIONS - RAMPS C & D

TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

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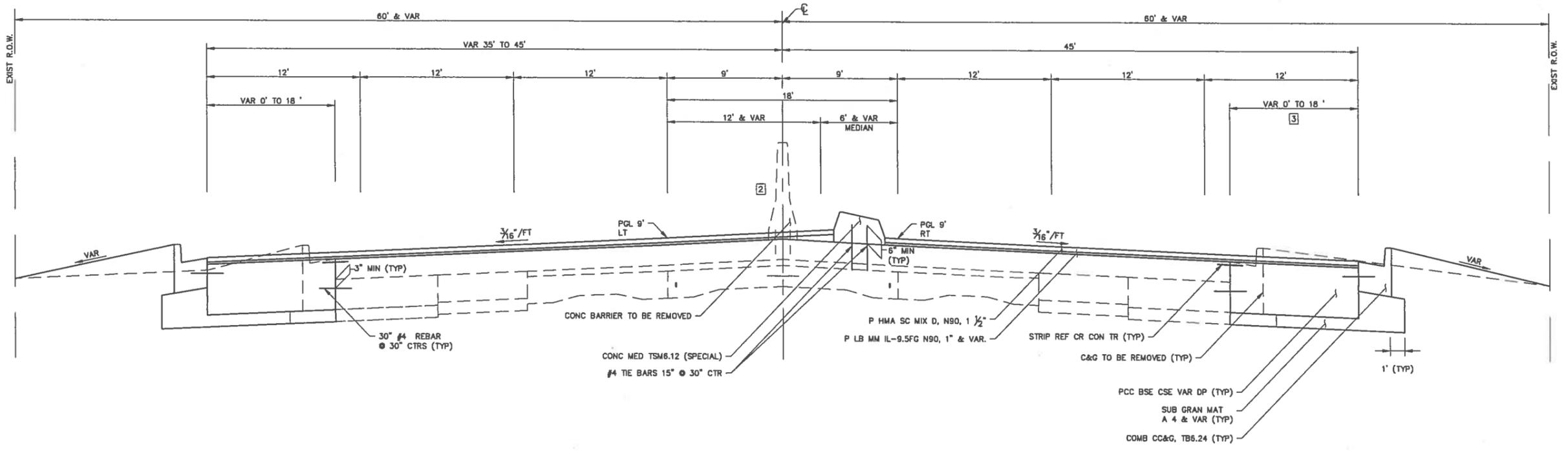


PROPOSED TYPICAL SECTIONS - ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: JMW DATE: 2/23/17
 DESIGN BY: JMW DATE: 2/23/17
 CHECKED BY: MIN DATE: 2/23/17
 APPVD BY: TLO DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	100% REVIEW COMMENTS

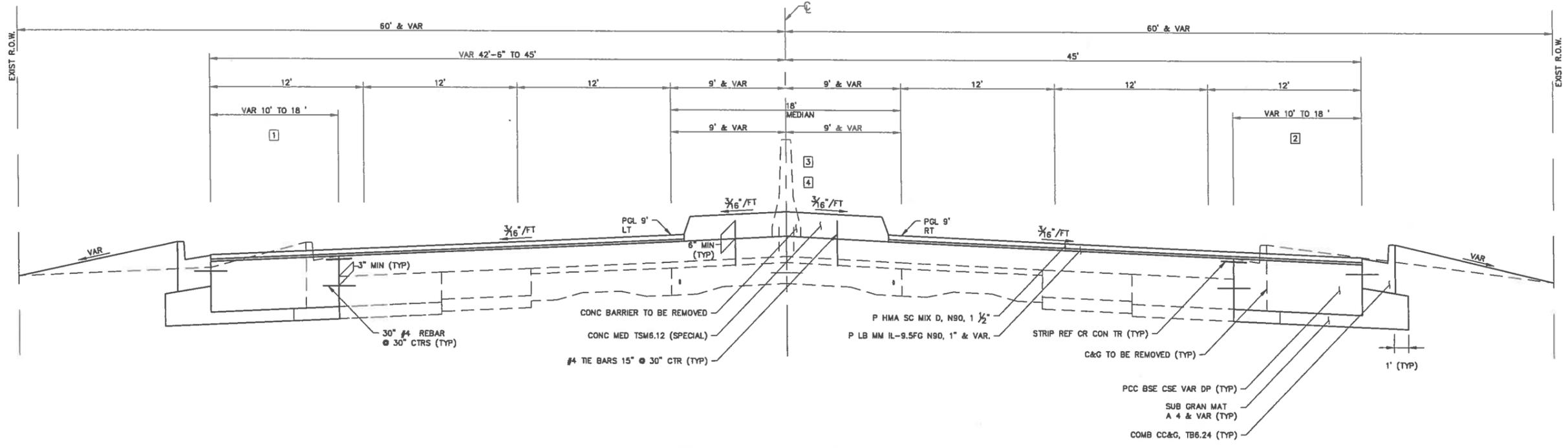
PROJECT NO.
14TIL009



PROPOSED TYPICAL SECTION - ROUTE 1

STA 3031+28.00 TO STA 3036+32.58

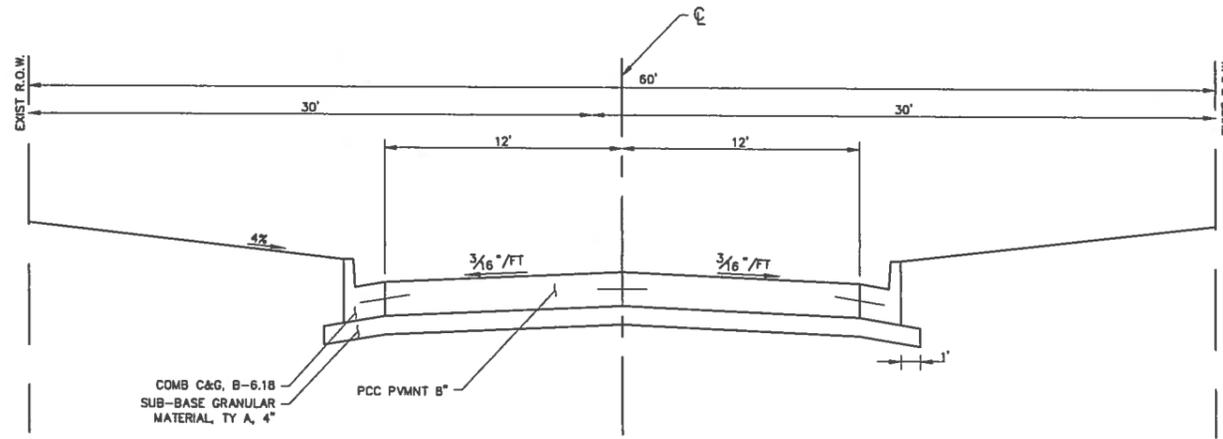
- 1 SEE PLAN & PROFILE FOR MEDIAN LOCATION
- 2 END PINNED CONC BARRIER REMOVAL STA 3031+88.00
BEGIN CAST-IN-PLACE CONC BARRIER REMOVAL STA 3031+88.00
- 3 RT STA 3031+28.00 TO STA 3035+87.00



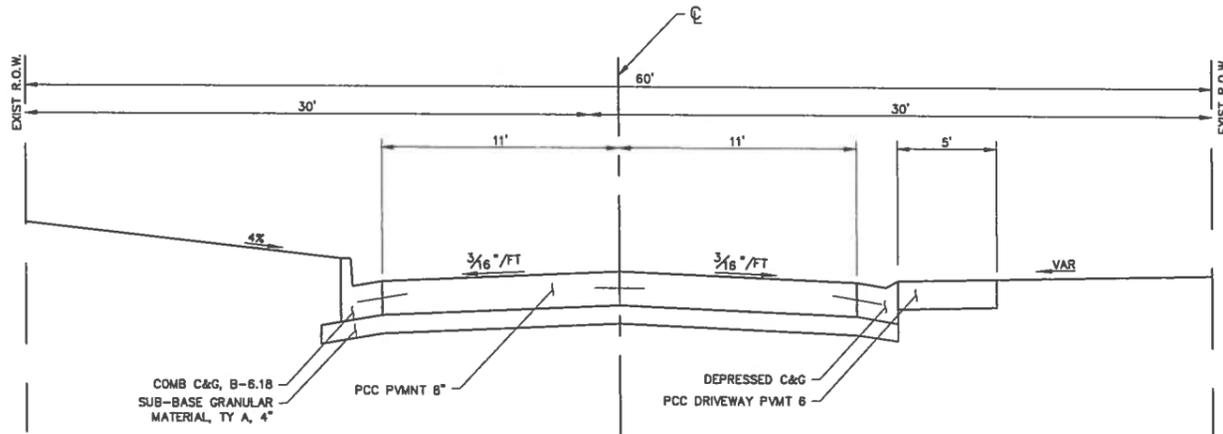
PROPOSED TYPICAL SECTION - ROUTE 1

STA 3036+32.58 TO STA 3041+70.50

- 1 LT ST 3026+78.00 TO STA 3040+19.00
- 2 RT STA 3037+34.18 TO ST 3040+78.07
- 3 END MEDIAN STA 3039+48.95
- 4 END CAST-IN-PLACE CONC BARRIER REMOVAL STA 3039+69.00



PROPOSED TYPICAL SECTION - 16TH STREET
 STA 31+94.38 TO STA 37+31.58



PROPOSED TYPICAL SECTION - 16TH STREET
 STA 27+00.00 TO STA 30+25.55

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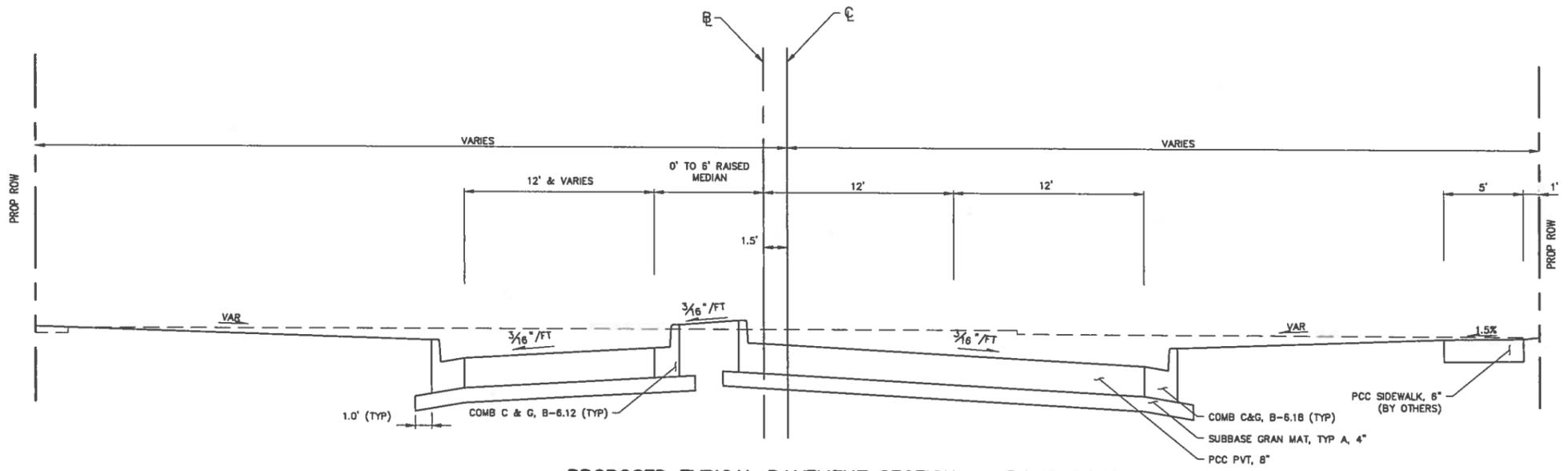
PROPOSED TYPICAL SECTIONS - 16TH ST
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: JDW	DATE: 2/23/17
DESIGN BY: JDW	DATE: 2/23/17
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NO.	DATE	BY	DESCRIPTION

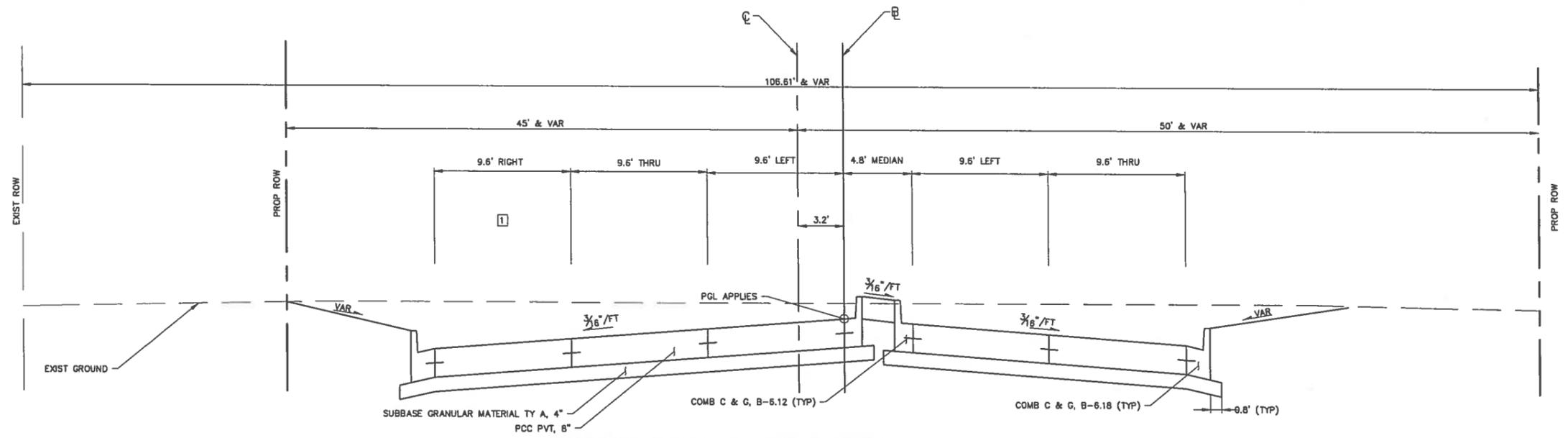
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PROPOSED TYPICAL PAVEMENT SECTION - RAMP ROAD

STA 26+64.87 TO STA 29+55.00



PROPOSED TYPICAL PAVEMENT SECTION - RAMP ROAD

STA 30+52.06 - STA 33+47.92

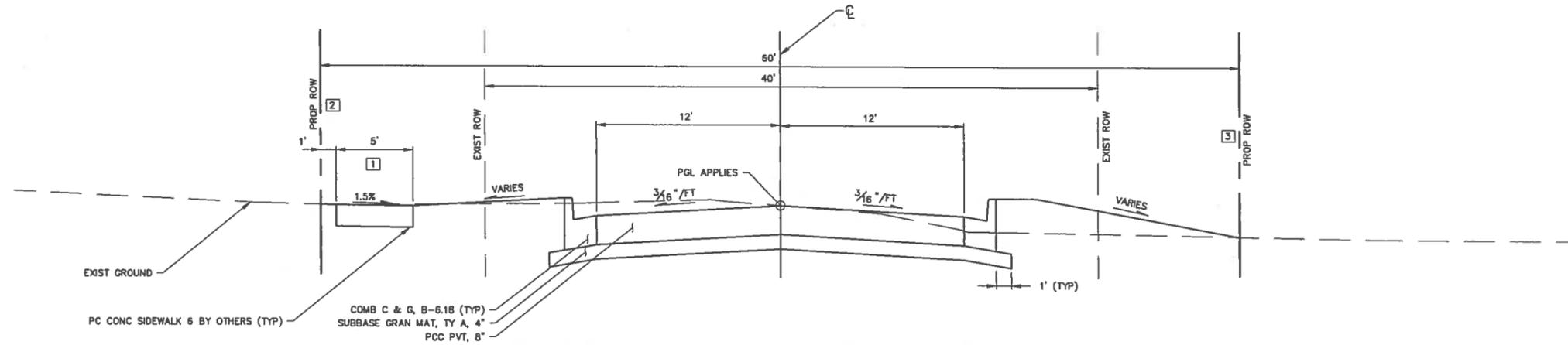
1] STA 31+21.41 TO STA 32+21.04 = 12.00'
 STA 32+21.04 TO STA 33+17.04 = TRANSITION 12.00' TO 0'
 STA 33+17.04 TO STA 33+48.92 = 0.00'

PROPOSED TYPICAL SECTIONS - RAMP RD
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW	DATE: 2/23/17
DESIGN BY: RW	DATE: 2/23/17
CHECKED BY: MLN	DATE: 2/23/17
APPROV BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	DOT REVIEW COMMENTS

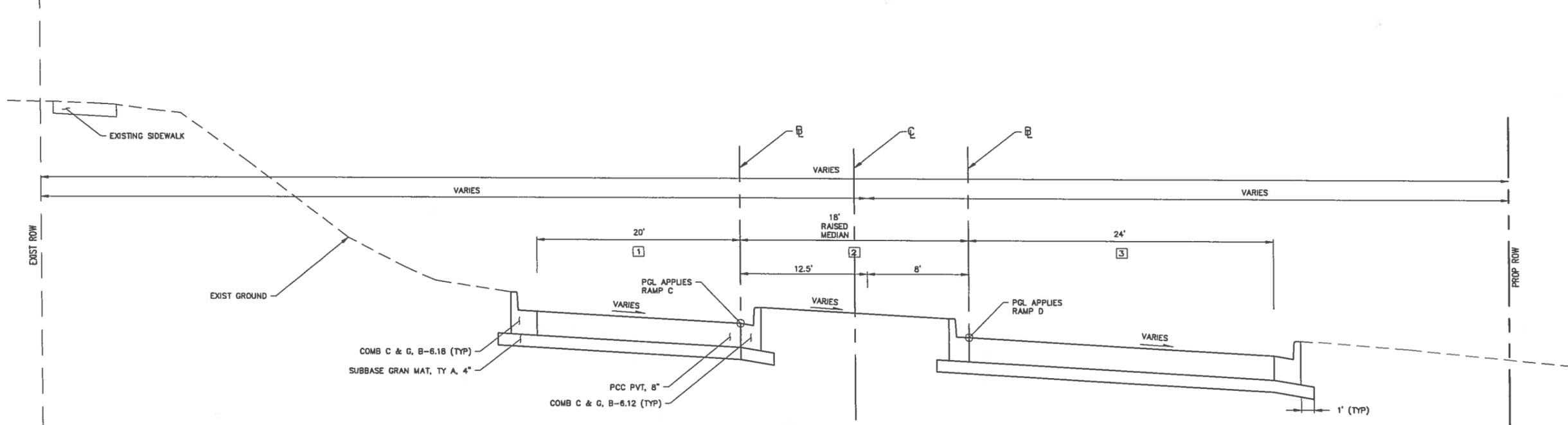
PROJECT NO.
14TIL009



PROPOSED TYPICAL PAVEMENT SECTION - LANE STREET

STA 103+39.94 TO STA 108+16.94 LANE ST

- 1 STA 100+12.00 TO STA 103+44.75 = NO SIDEWALK
STA 103+44.75 TO STA 108+16.94 = 5' SIDEWALK
STA 1+10.82 TO STA 4+13.65 = NO SIDEWALK
- 2 STA 100+12.00 TO STA 103+31.34 = NO PROP. ROW
STA 103+31.34 TO STA 108+16.94 = PROP. ROW
STA 1+10.82 TO STA 4+13.65 = 60' ROW
- 3 STA 100+12.00 TO STA 102+14.00 = NO PROP. ROW
STA 102+14.00 TO STA 108+16.94 = PROP. ROW
STA 1+10.82 TO STA 4+13.65 = 60' ROW



PROPOSED TYPICAL PAVEMENT SECTION - RAMPS C & D

- 1 STA 108+16.94 TO STA 110+83.00 = 12.0'
STA 110+83.00 TO STA 111+69.80 = TRANSITION 12.0' TO 15.0'
- 2 STA 108+16.94 TO STA 111+69.80
STA 108+16.94 TO STA 109+26.77 = TRANSITION FROM 0.0' TO 9.54' NO RAISED MEDIAN
STA 109+26.77 TO STA 111+37.51 = TRANSITION FROM 9.54' TO 18.0'
STA 111+37.51 TO STA 111+69.80 = 18' RAISED MEDIAN
- 3 STA 108+16.94 TO STA 109+93.98 = 12.0'
STA 109+93.98 TO STA 111+26.97 = TRANSITION 12.0' TO 24.0'

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PROPOSED TYPICAL SECTIONS -
RAMPS C & D & LANE ST

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW	DATE: 2/23/17
DESIGN BY: JOW	DATE: 2/23/17
CHECKED BY: MLN	DATE: 2/23/17
APPROV BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION
1	10/27/17	BWS	DOT REVIEW COMMENTS

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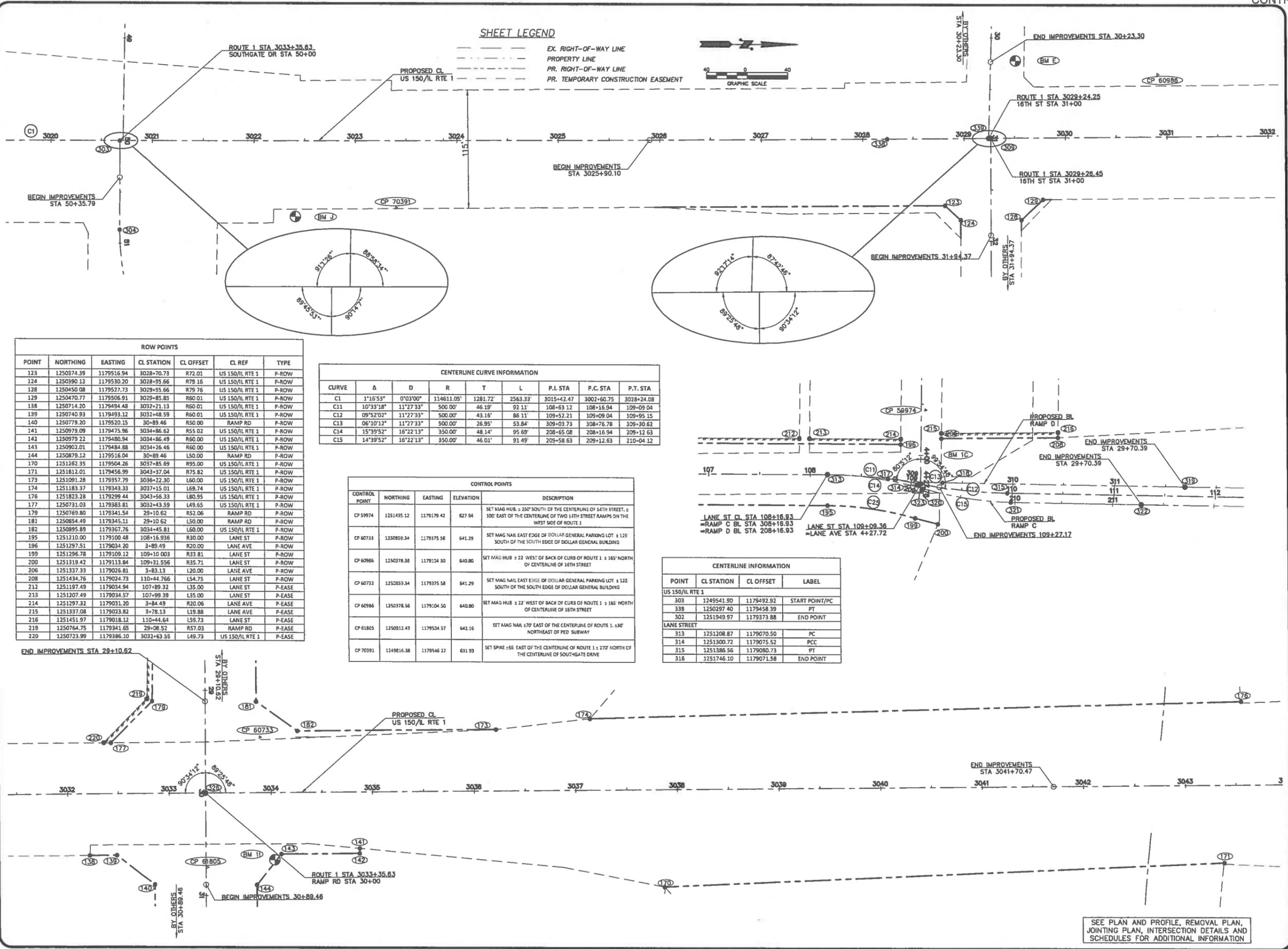


HORIZONTAL CONTROL
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JDW
 DATE: 2/23/17
 DESIGN BY: JDW
 DATE: 2/23/17
 CHECKED BY: BWS
 DATE: 2/23/17
 APPVD BY: TLO
 DATE: 2/23/17

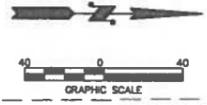
NO.	DATE	BY	DESCRIPTION

PROJECT NO.
 14TIL009



SHEET LEGEND

- EX. RIGHT-OF-WAY LINE
- PROPERTY LINE
- PR. RIGHT-OF-WAY LINE
- PR. TEMPORARY CONSTRUCTION EASEMENT



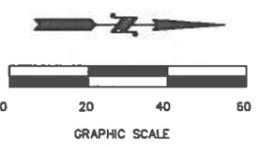
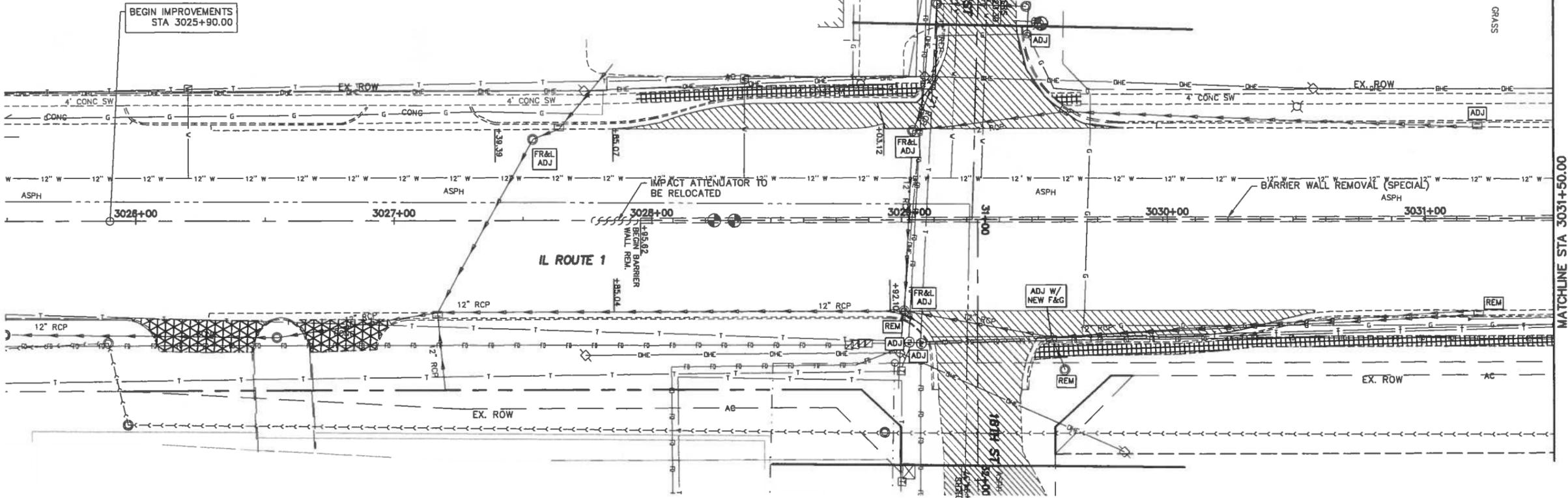
ROW POINTS						
POINT	NORTHING	EASTING	CL STATION	CL OFFSET	CL REF	TYPE
123	1250374.39	1179516.94	3028+70.73	R72.01	US 150/L RTE 1	P-ROW
124	1250390.13	1179530.20	3028+95.66	R79.16	US 150/L RTE 1	P-ROW
128	1250450.08	1179527.73	3029+55.66	R79.76	US 150/L RTE 1	P-ROW
129	1250470.77	1179506.91	3029+85.85	R60.01	US 150/L RTE 1	P-ROW
138	1250714.20	1179494.48	3032+21.13	R60.01	US 150/L RTE 1	P-ROW
139	1250740.93	1179493.12	3032+48.59	R60.01	US 150/L RTE 1	P-ROW
140	1250779.20	1179520.15	30+89.46	R50.00	RAMP RD	P-ROW
141	1250979.09	1179475.96	3034+86.62	R55.02	US 150/L RTE 1	P-ROW
142	1250979.22	1179480.94	3034+86.49	R60.00	US 150/L RTE 1	P-ROW
143	1250902.01	1179484.88	3034+26.46	R60.00	US 150/L RTE 1	P-ROW
144	1250879.12	1179516.04	30+89.46	L50.00	RAMP RD	P-ROW
170	1251262.35	1179504.26	3037+85.69	R95.00	US 150/L RTE 1	P-ROW
171	1251812.01	1179456.99	3043+37.04	R75.82	US 150/L RTE 1	P-ROW
173	1251091.28	1179357.79	3036+22.30	L60.00	US 150/L RTE 1	P-ROW
174	1251183.37	1179343.33	3037+15.01	L69.74	US 150/L RTE 1	P-ROW
176	1251823.28	1179299.44	3043+56.33	L80.95	US 150/L RTE 1	P-ROW
177	1250731.03	1179383.41	3032+43.59	L49.65	US 150/L RTE 1	P-ROW
179	1250769.80	1179341.54	29+10.62	R52.06	RAMP RD	P-ROW
181	1250854.49	1179345.11	29+10.62	L50.00	RAMP RD	P-ROW
182	1250895.89	1179367.76	3034+45.81	L60.00	US 150/L RTE 1	P-ROW
195	1251210.00	1179100.48	108+16.936	R30.00	LANE ST	P-ROW
196	1251297.51	1179034.20	3+89.49	R20.00	LANE AVE	P-ROW
199	1251296.78	1179109.12	109+10.003	R33.81	LANE ST	P-ROW
200	1251319.42	1179113.84	109+31.556	R35.71	LANE ST	P-ROW
206	1251337.33	1179026.81	3+83.13	L20.00	LANE AVE	P-ROW
208	1251434.76	1179024.73	110+44.766	L54.75	LANE ST	P-ROW
212	1251197.49	1179034.94	107+89.32	L35.00	LANE ST	P-EASE
213	1251207.49	1179034.57	107+99.39	L35.00	LANE ST	P-EASE
214	1251297.32	1179031.20	3+84.49	R20.06	LANE AVE	P-EASE
215	1251337.08	1179023.82	3+78.13	L19.88	LANE AVE	P-EASE
216	1251451.97	1179018.12	110+44.64	L59.73	LANE ST	P-EASE
219	1250764.75	1179341.65	29+08.52	R57.03	RAMP RD	P-EASE
220	1250723.99	1179386.10	3032+63.55	L49.73	US 150/L RTE 1	P-EASE

CENTERLINE CURVE INFORMATION								
CURVE	Δ	D	R	T	L	P.I. STA	P.C. STA	P.T. STA
C1	1°16'53"	0°03'00"	114611.05'	1281.72'	2563.33'	3015+42.47	3002+60.75	3028+24.08
C11	10°33'18"	11°27'33"	500.00'	46.19'	92.11'	108+63.12	108+16.94	109+09.04
C12	09°52'02"	11°27'33"	500.00'	43.16'	86.11'	109+52.21	109+09.04	109+95.15
C13	06°10'12"	11°27'33"	500.00'	26.95'	53.84'	309+03.73	308+76.78	309+30.62
C14	15°39'52"	16°22'13"	350.00'	48.14'	95.69'	208+65.08	208+16.94	209+12.63
C15	14°39'52"	16°22'13"	350.00'	46.01'	91.49'	205+58.63	209+12.63	210+04.12

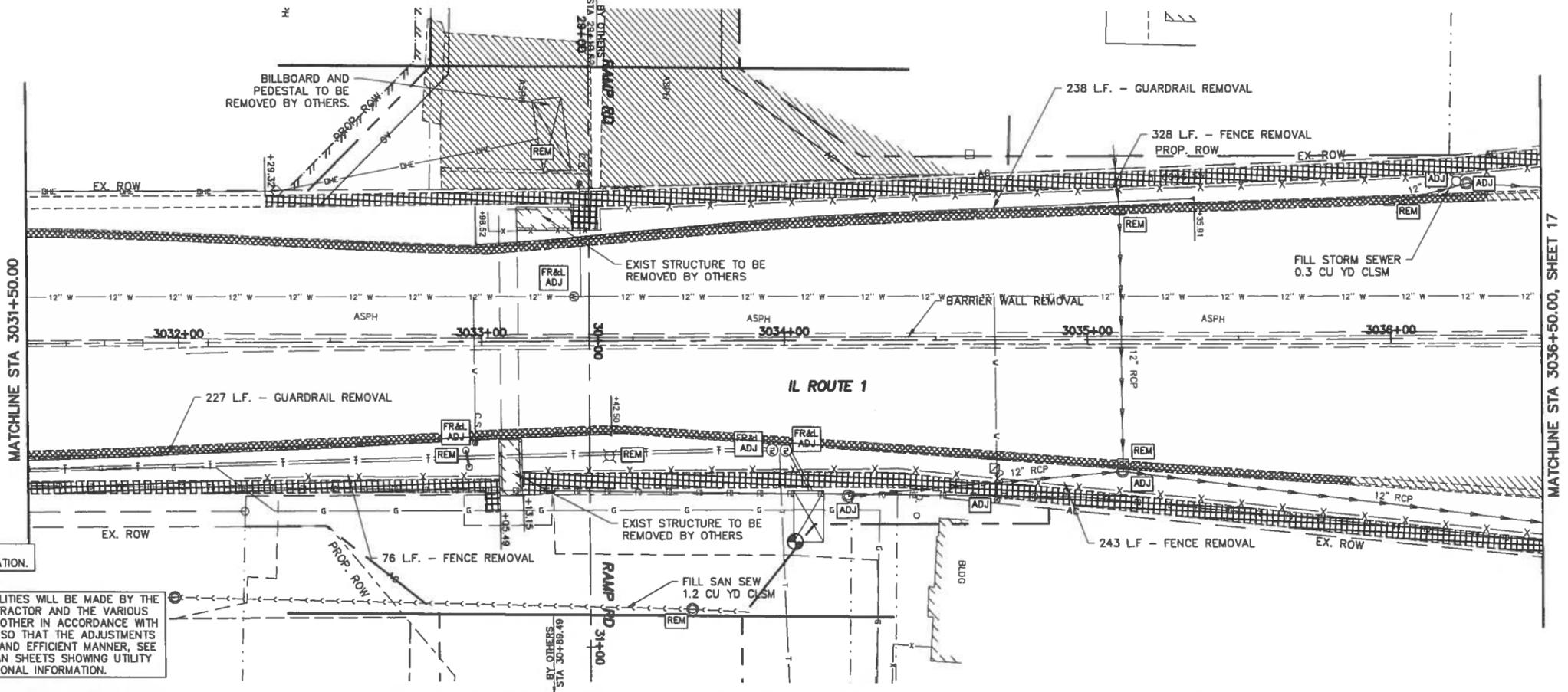
CONTROL POINTS				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 59974	1251495.12	1179179.42	627.94	SET MAG HUB ± 250' SOUTH OF THE CENTERLINE OF 14TH STREET, ± 100' EAST OF THE CENTERLINE OF TWO 14TH STREET RAMPS ON THE WEST SIDE OF ROUTE 1
CP 60733	1250859.34	1179175.58	641.29	SET MAG NAIL EAST EDGE OF DOLLAR GENERAL PARKING LOT ± 125' SOUTH OF THE SOUTH EDGE OF DOLLAR GENERAL BUILDING
CP 60986	1250378.38	1179104.30	640.80	SET MAG HUB ± 22' WEST OF BACK OF CURB OF ROUTE 1 ± 165' NORTH OF CENTERLINE OF 16TH STREET
CP 60733	1250859.34	1179375.58	641.29	SET MAG NAIL EAST EDGE OF DOLLAR GENERAL PARKING LOT ± 125' SOUTH OF THE SOUTH EDGE OF DOLLAR GENERAL BUILDING
CP 60986	1250378.38	1179104.30	640.80	SET MAG HUB ± 22' WEST OF BACK OF CURB OF ROUTE 1 ± 165' NORTH OF CENTERLINE OF 16TH STREET
CP 61805	1250011.43	1179504.57	642.16	SET MAG NAIL 170' EAST OF THE CENTERLINE OF ROUTE 1 ± 380' NORTHEAST OF PED. SUBWAY
CP 70391	1249816.38	1179546.22	631.93	SET SPIKE ± 65' EAST OF THE CENTERLINE OF ROUTE 1 ± 279' NORTH OF THE CENTERLINE OF SOUTHGATE DRIVE

CENTERLINE INFORMATION			
POINT	CL STATION	CL OFFSET	LABEL
US 150/L RTE 1			
303	1249541.90	1179492.92	START POINT/PC
338	1250297.40	1179456.39	PT
302	1251949.97	1179373.88	END POINT
LANE STREET			
313	1251208.87	1179070.50	PC
314	1251300.72	1179075.52	PCC
315	1251386.56	1179080.73	PT
316	1251746.10	1179071.58	END POINT

SEE PLAN AND PROFILE, REMOVAL PLAN, JOINTING PLAN, INTERSECTION DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION



- SIDEWALK REMOVAL (BY OTHERS)
- PAVEMENT REMOVAL
- DRIVEWAY PAVE. REMOVAL
- COMB C&G REMOVAL
- PAVEMENT REMOVAL (BY OTHERS)



SEE THE PLAN & PROFILE SHEETS, SCHEDULES, HORIZONTAL LAYOUT PLAN FOR ADDITIONAL INFORMATION.

THE ADJUSTMENTS OR RELOCATIONS OF UTILITY FACILITIES WILL BE MADE BY THE UTILITY OWNERS DURING CONSTRUCTION. THE CONTRACTOR AND THE VARIOUS UTILITY COMPANIES SHALL COOPERATE WITH ONE ANOTHER IN ACCORDANCE WITH ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS SO THAT THE ADJUSTMENTS OR RELOCATIONS CAN BE PERFORMED IN A TIMELY AND EFFICIENT MANNER, SEE THE GENERAL NOTES SHEET AND THE VARIOUS PLAN SHEETS SHOWING UTILITY ADJUSTMENTS OR RELOCATIONS FOR ADDITIONAL INFORMATION.

Phoenix Consulting Engineers, Ltd.
 Professional Design Firm No. 184,005835
 421 E. Main Street • Mahomet, IL 61853
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REMOVAL PLANS - ROUTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY:	MLN
DATE:	2/23/17
DESIGN BY:	MLN
DATE:	2/23/17
CHECKED BY:	BWS
DATE:	2/23/17
APPROVED BY:	TLO
DATE:	2/23/17

NO.	DATE	BY	DESCRIPTION
1	2/16/18	BWS	UTILITY ADJUSTMENT REVISION

PROJECT NO.
14TIL009
15
SHEET 15 OF 73

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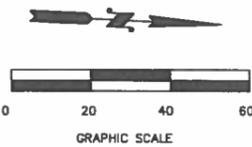
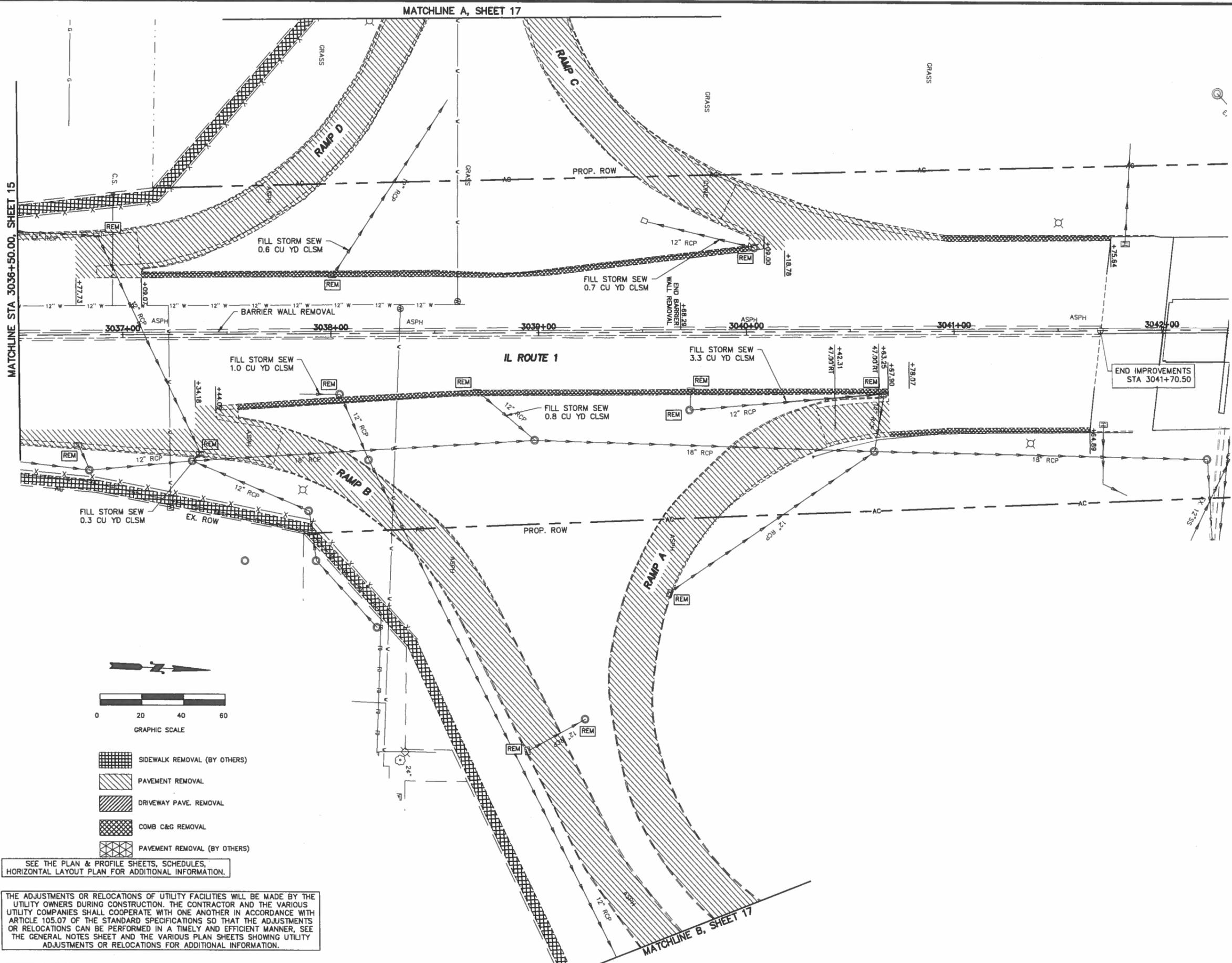


REMOVAL PLANS - ROUTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: MLN
 DATE: 2/23/17
 DESIGN BY: MLN
 DATE: 2/23/17
 CHECKED BY: BWS
 DATE: 2/23/17
 APP'D BY: TLO
 DATE: 2/23/17

REVISIONS		DESCRIPTION
NO.	DATE	BY
1	5/16/18	BWS
		UTILITY ADJUSTMENT REVISION

PROJECT NO.
14TIL009



- SIDEWALK REMOVAL (BY OTHERS)
- PAVEMENT REMOVAL
- DRIVEWAY PAVE. REMOVAL
- COMB C&G REMOVAL
- PAVEMENT REMOVAL (BY OTHERS)

SEE THE PLAN & PROFILE SHEETS, SCHEDULES, HORIZONTAL LAYOUT PLAN FOR ADDITIONAL INFORMATION.

THE ADJUSTMENTS OR RELOCATIONS OF UTILITY FACILITIES WILL BE MADE BY THE UTILITY OWNERS DURING CONSTRUCTION. THE CONTRACTOR AND THE VARIOUS UTILITY COMPANIES SHALL COOPERATE WITH ONE ANOTHER IN ACCORDANCE WITH ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS SO THAT THE ADJUSTMENTS OR RELOCATIONS CAN BE PERFORMED IN A TIMELY AND EFFICIENT MANNER. SEE THE GENERAL NOTES SHEET AND THE VARIOUS PLAN SHEETS SHOWING UTILITY ADJUSTMENTS OR RELOCATIONS FOR ADDITIONAL INFORMATION.

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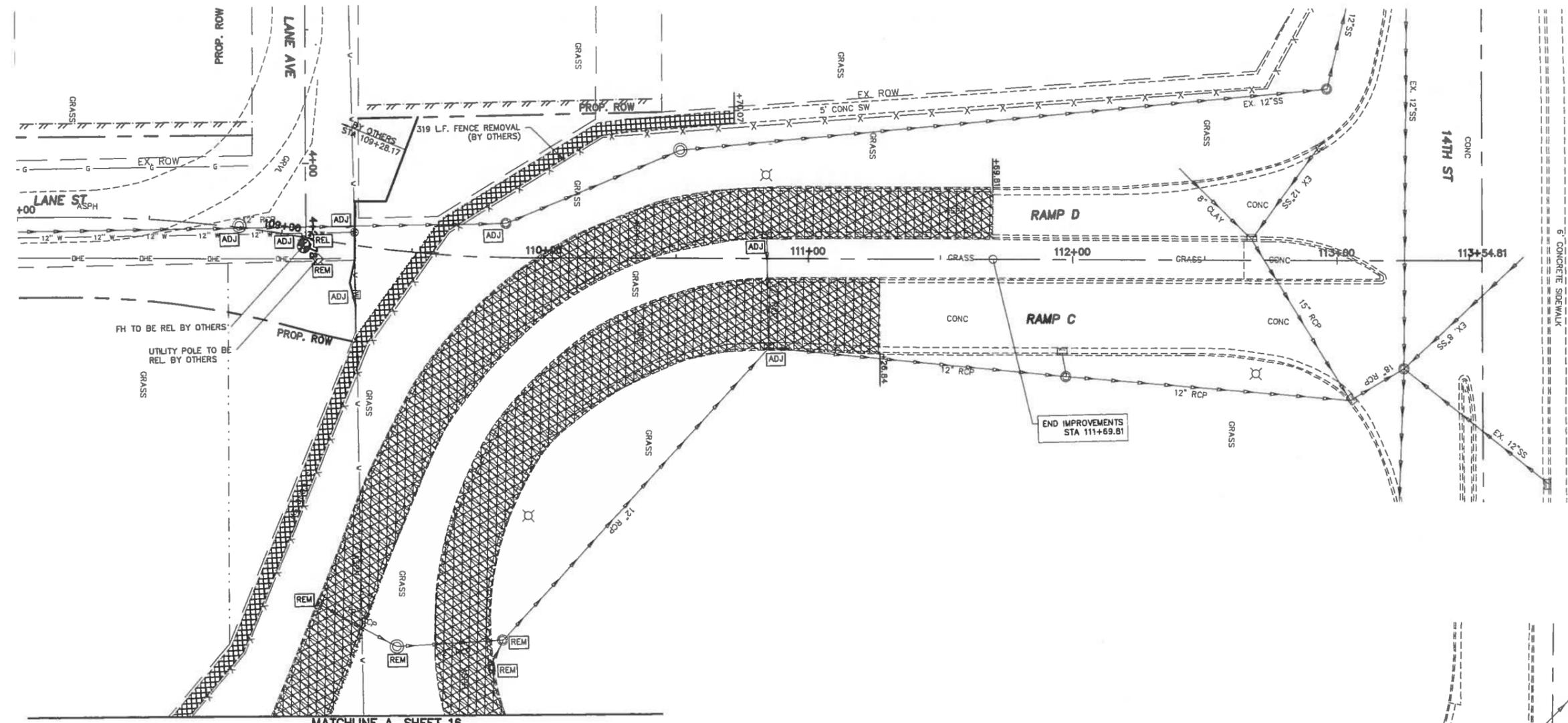


REMOVAL PLANS - 14TH ST RAMPS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

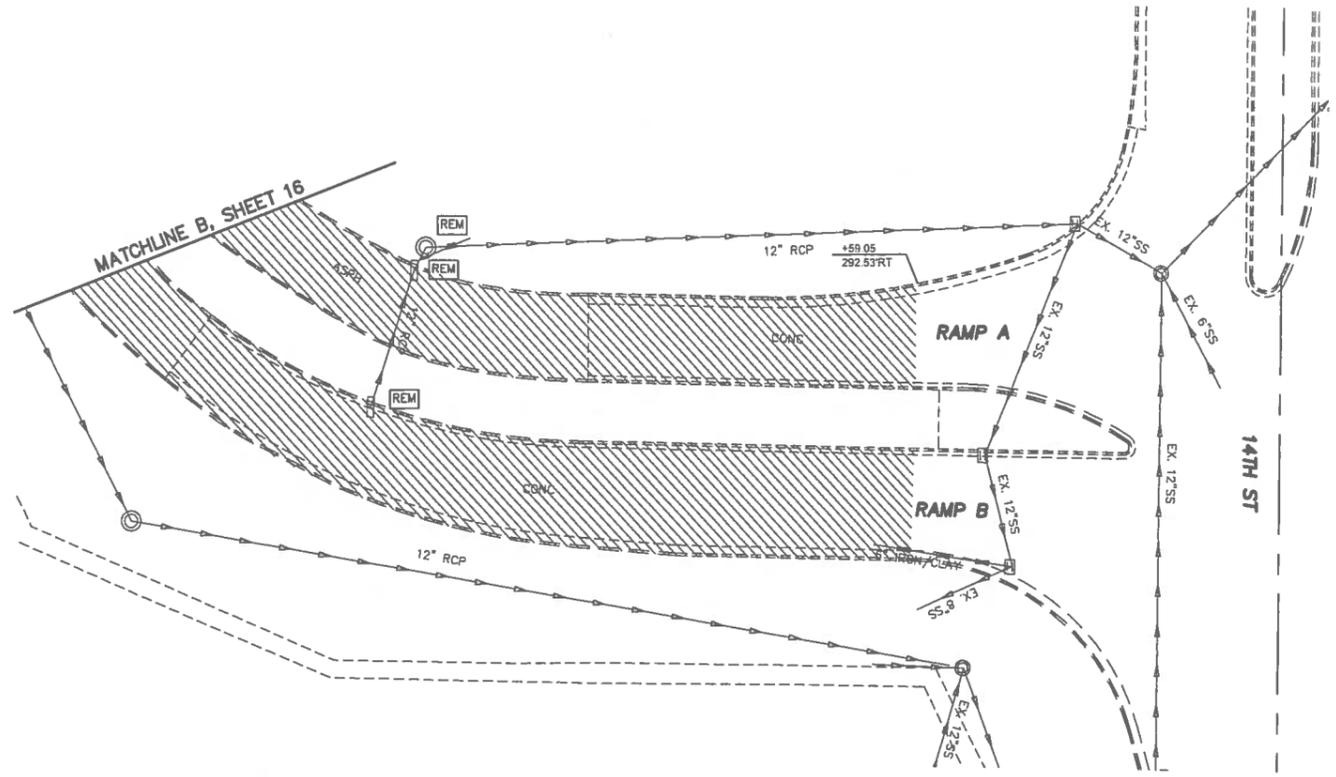
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 DATE: 2/23/17
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 DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION

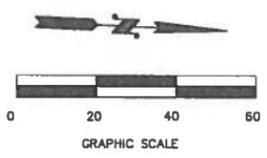
PROJECT NO.
 14TL009



MATCHLINE A, SHEET 16



MATCHLINE B, SHEET 16



- SIDEWALK REMOVAL (BY OTHERS)
- PAVEMENT REMOVAL
- DRIVEWAY PAVE. REMOVAL
- COMB C&G REMOVAL
- PAVEMENT REMOVAL (BY OTHERS)

SEE THE PLAN & PROFILE SHEETS, SCHEDULES,
 HORIZONTAL LAYOUT PLAN FOR ADDITIONAL INFORMATION.

THE ADJUSTMENTS OR RELOCATIONS OF UTILITY FACILITIES WILL BE MADE BY THE UTILITY OWNERS DURING CONSTRUCTION. THE CONTRACTOR AND THE VARIOUS UTILITY COMPANIES SHALL COOPERATE WITH ONE ANOTHER IN ACCORDANCE WITH ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS SO THAT THE ADJUSTMENTS OR RELOCATIONS CAN BE PERFORMED IN A TIMELY AND EFFICIENT MANNER. SEE THE GENERAL NOTES SHEET AND THE VARIOUS PLAN SHEETS SHOWING UTILITY ADJUSTMENTS OR RELOCATIONS FOR ADDITIONAL INFORMATION.

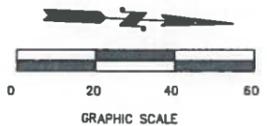
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 421 E. Main Street • Mahomet, IL 61853
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PLAN & PROFILE - IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

NO.	DATE	BY	DESCRIPTION

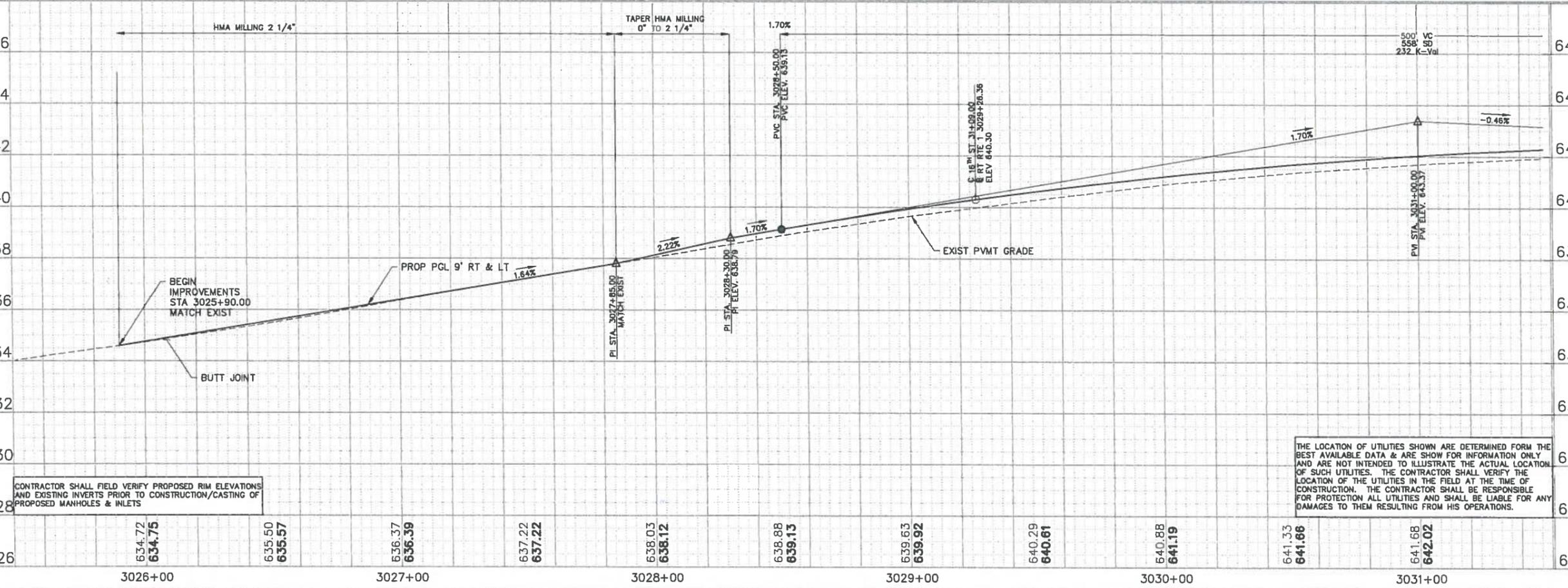
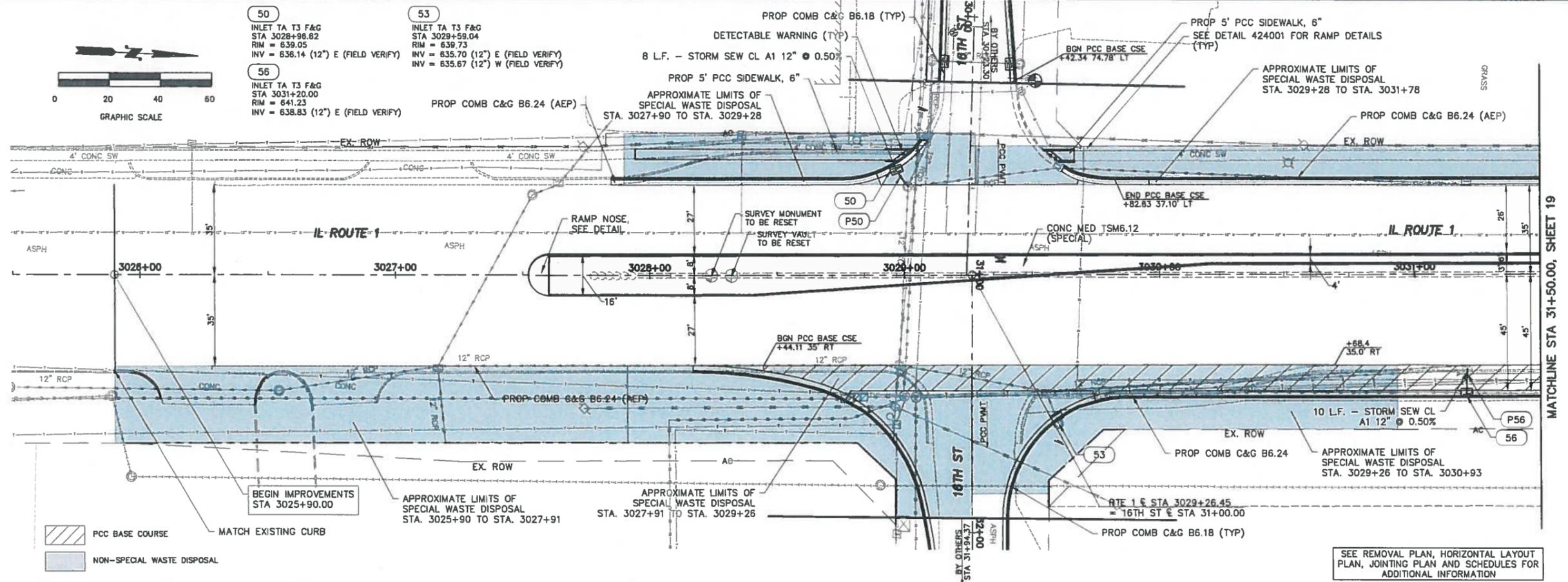
PROJECT NO.
14TIL009
18
SHEET 18 OF 73



50
 INLET TA T3 F&G
 STA 3028+96.82
 RIM = 639.05
 INV = 636.14 (12" E (FIELD VERIFY))

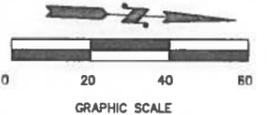
53
 INLET TA T3 F&G
 STA 3029+59.04
 RIM = 639.73
 INV = 635.70 (12" E (FIELD VERIFY))
 INV = 635.67 (12" W (FIELD VERIFY))

56
 INLET TA T3 F&G
 STA 3031+20.00
 RIM = 641.23
 INV = 638.83 (12" E (FIELD VERIFY))



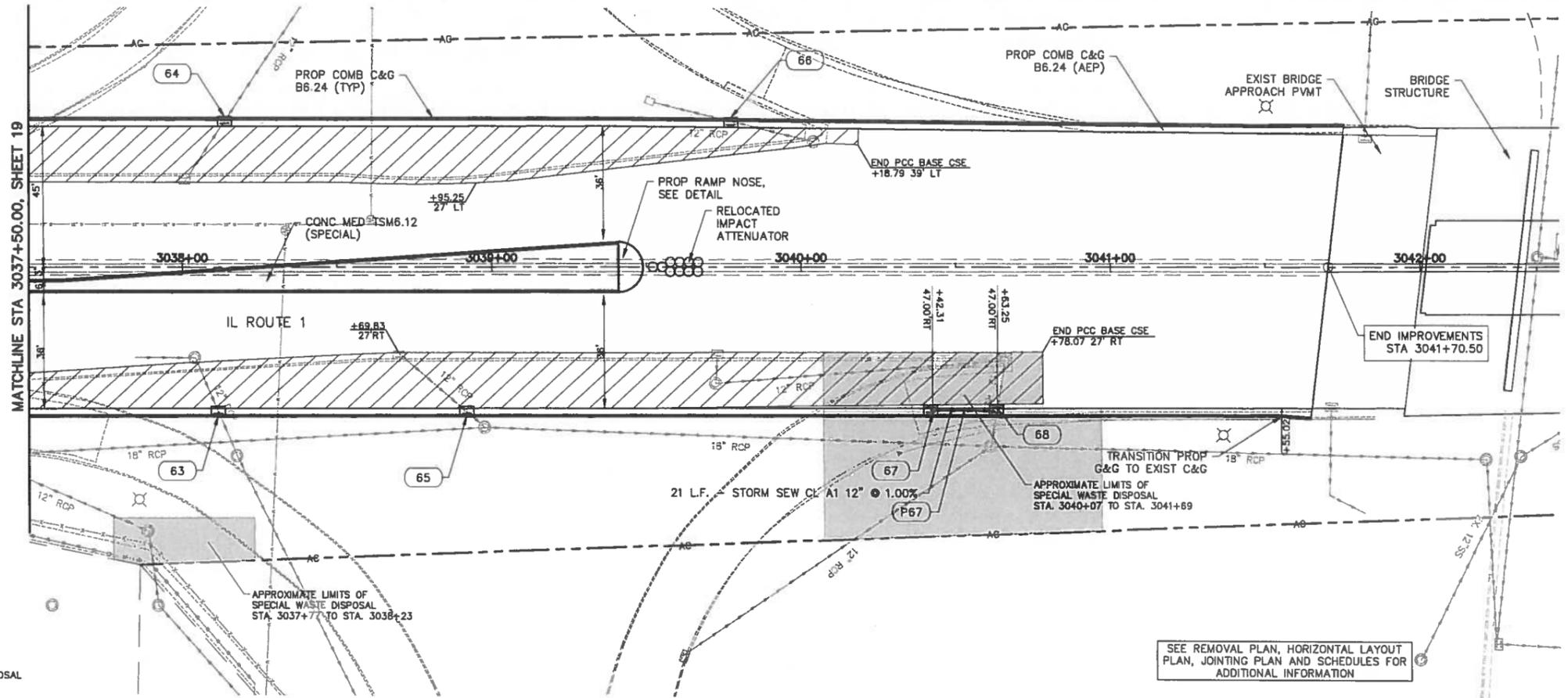
THE LOCATION OF UTILITIES SHOWN ARE DETERMINED FROM THE BEST AVAILABLE DATA & ARE SHOWN FOR INFORMATION ONLY AND ARE NOT INTENDED TO ILLUSTRATE THE ACTUAL LOCATION OF SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE UTILITIES IN THE FIELD AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGES TO THEM RESULTING FROM HIS OPERATIONS.

MATCHLINE STA 31+50.00, SHEET 19



- 63
INLET TB T3 F&G
STA 3038+11.76
RIM = 639.87
INV = 632.62 (12" E (FIELD VERIFY))
- 64
INLET TA T3 F&G
STA 3038+14.29
RIM = 639.86
INV = 637.31 (12" W (FIELD VERIFY))
- 65
INLET TB T3 F&G
STA 3038+92.69
RIM = 639.65
INV = 633.16 (12" E (FIELD VERIFY))
- 66
INLET TA T3 F&G
STA 3039+77.14
RIM = 639.43
INV = 636.20 (12" N (FIELD VERIFY))
- 67
INLET TA T3 F&G
STA 3040+42.31
RIM = 639.21
INV = 635.39 (12" N (FIELD VERIFY))
- 68
INLET TB T3 F&G
STA 3040+63.25
RIM = 639.19
INV = 635.20 (12" S (FIELD VERIFY))
INV = 634.99 (12" E (FIELD VERIFY))
INV = 634.93 (12" W (FIELD VERIFY))

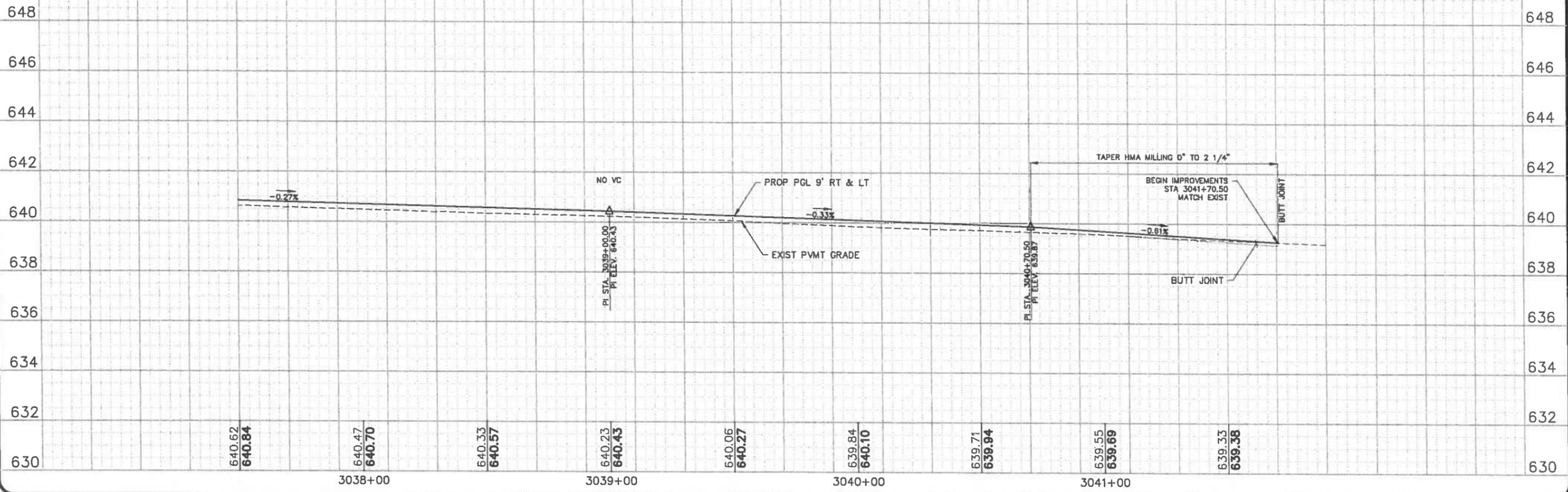
PCC BASE COURSE
 NON-SPECIAL WASTE DISPOSAL



SEE REMOVAL PLAN, HORIZONTAL LAYOUT PLAN, JOINTING PLAN AND SCHEDULES FOR ADDITIONAL INFORMATION

THE LOCATION OF UTILITIES SHOWN ARE DETERMINED FROM THE BEST AVAILABLE DATA & ARE SHOWN FOR INFORMATION ONLY AND ARE NOT INTENDED TO ILLUSTRATE THE ACTUAL LOCATION OF SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE UTILITIES IN THE FIELD AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGES TO THEM RESULTING FROM HIS OPERATIONS.

CONTRACTOR SHALL FIELD VERIFY PROPOSED RIM ELEVATIONS AND EXISTING INVERTS PRIOR TO CONSTRUCTION/CASTING OF PROPOSED MANHOLES & INLETS



PLAN & PROFILE - IL RTE 1

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

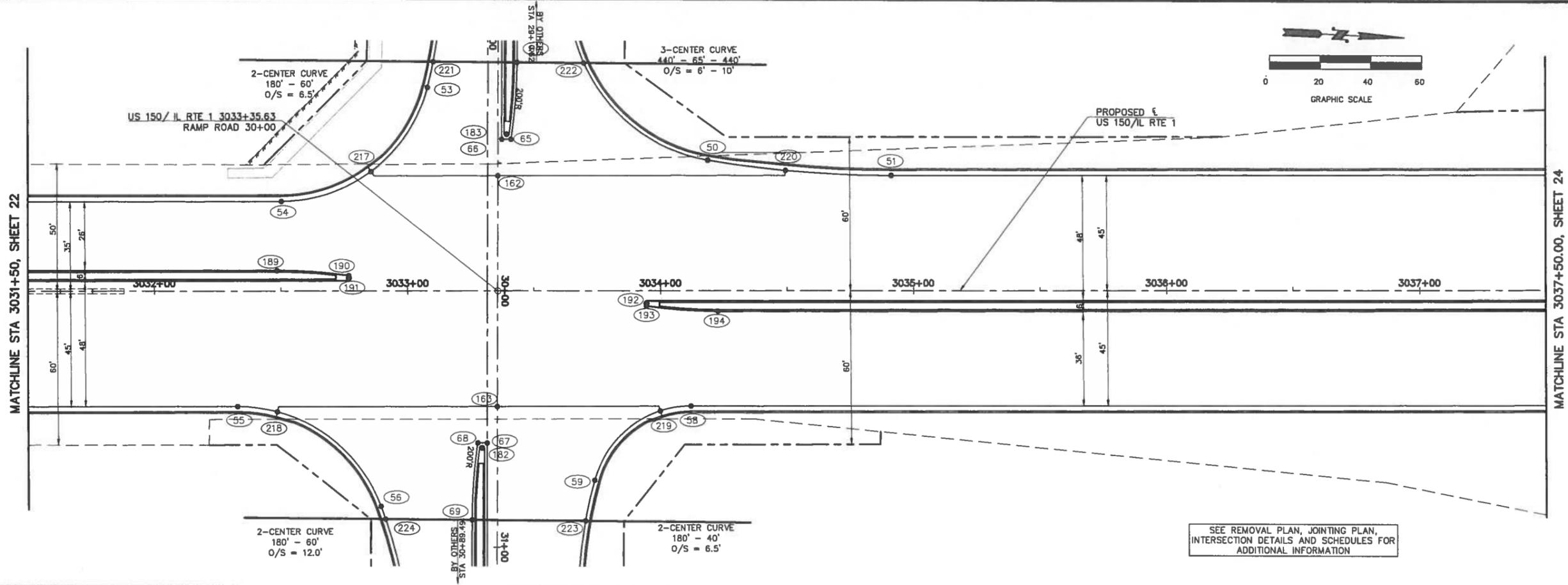
NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009

20
SHEET 20 OF 73

Phoenix Consulting Engineers, Ltd.
Professional Design Firm No. 184.005855
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SEE REMOVAL PLAN, JOINTING PLAN,
INTERSECTION DETAILS AND SCHEDULES FOR
ADDITIONAL INFORMATION

PAVEMENT CONTROL POINTS						
POINT	NORTHING	EASTING	CL STATION	CL OFFSET	CL REF	DESCRIPTION
50	125088.797	1179377.134	3034+19.11	51.00' LT	US 150/IL RTE 1	PCC R=65/440'
51	1250961.424	1179379.434	3034+91.52	45.00' RT	US 150/IL RTE 1	PT R=450'
53	1250776.754	1179354.218	29+20.68	28.04' RT	RAMP RD	PCC R=180/60'
54	1250721.113	1179401.714	3032+50.39	35.00' LT	US 150/IL RTE 1	PT R=60'
55	1250707.431	1179482.517	3032+32.60	45.00' RT	US 150/IL RTE 1	PC R=60'
56	1250765.564	1179518.632	30+84.49	45.97' RT	RAMP RD	PCC R=60/180'
58	1250886.439	1179473.378	3034+11.84	45.00' RT	US 150/IL RTE 1	PC R=40'
59	1250849.518	1179504.285	30+73.59	38.50' LT	RAMP RD	PCC R=40/180'
64	1250811.856	1179342.71	29+10.62	7.50' LT	RAMP RD	PC R=200'
65	1250810.818	1179372.849	29+40.69	5.23' LT	RAMP RD	END PT R=200'
66	1250807.095	1179373.002	29+40.69	1.50' LT	RAMP RD	END MEDIAN
67	1250806.125	1179483.501	30+51.06	4.00' RT	RAMP RD	BEGIN MEDIAN
68	1250802.406	1179483.654	3033+27.40	50.98' RT	US 150/IL RTE 1	BEGIN R=200'
69	1250802.368	1179513.793	30+81.13	10.00' LT	RAMP RD	PT R=200'
162	1250806.184	1179387.358	29+55.00	0.00' LT	RAMP RD	CL END WORK
163	1250809.88	1179477.354	30+45.07	0.00' LT	RAMP RD	CL BEGIN WORK
182	1250804.213	1179485.581	3033+29.10	52.99' RT	US 150/IL RTE 1	RAD PT R=2'
183	1250809.011	1179370.922	29+38.69	3.50' LT	RAMP RD	RAD PT R=2'
189	1250720.592	1179428.776	3032+48.49	8.00' LT	US 150/IL RTE 1	PC R=199'
190	1250748.99	1179429.339	3032+76.82	5.99' LT	US 150/IL RTE 1	PT R=199'
191	1250748.899	1179430.335	3032+76.68	5.00' LT	US 150/IL RTE 1	RAD PT R=2'
192	1250867.162	1179434.311	3033+94.58	5.00' RT	US 150/IL RTE 1	RAD PT R=2'
193	1250867.071	1179435.307	3033+94.44	5.99' RT	US 150/IL RTE 1	PC R=199'
194	1250895.35	1179435.876	3034+22.66	8.00' RT	US 150/IL RTE 1	PT R=199'
217	1250755.954	1179388.307	3032+85.87	46.61' LT	US 150/IL RTE 1	MTL TRANSITION
218	1250723.151	1179483.79	3032+48.24	47.07' RT	US 150/IL RTE 1	MTL TRANSITION
219	1250874.323	1179475.915	3033+99.61	46.91' RT	US 150/IL RTE 1	MTL TRANSITION
220	1250919.567	1179378.577	3034+49.71	46.99' LT	US 150/IL RTE 1	MTL TRANSITION
221	1250778.599	1179344.076	29+10.62	25.78' RT	RAMP RD	END R=180'
222	1250838.078	1179341.633	29+10.62	33.74' LT	RAMP RD	END R=65'
224	125767.593	1179523.52	30+89.46	44.15' RT	RAMP RD	END R=180'

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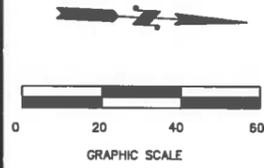
HORIZONTAL LAYOUT PLAN - IL RTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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DATE: 2/23/17
DESIGN BY: BWS
DATE: 2/23/17
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DATE: 2/23/17
APPROVED BY: TLO
DATE: 2/23/17

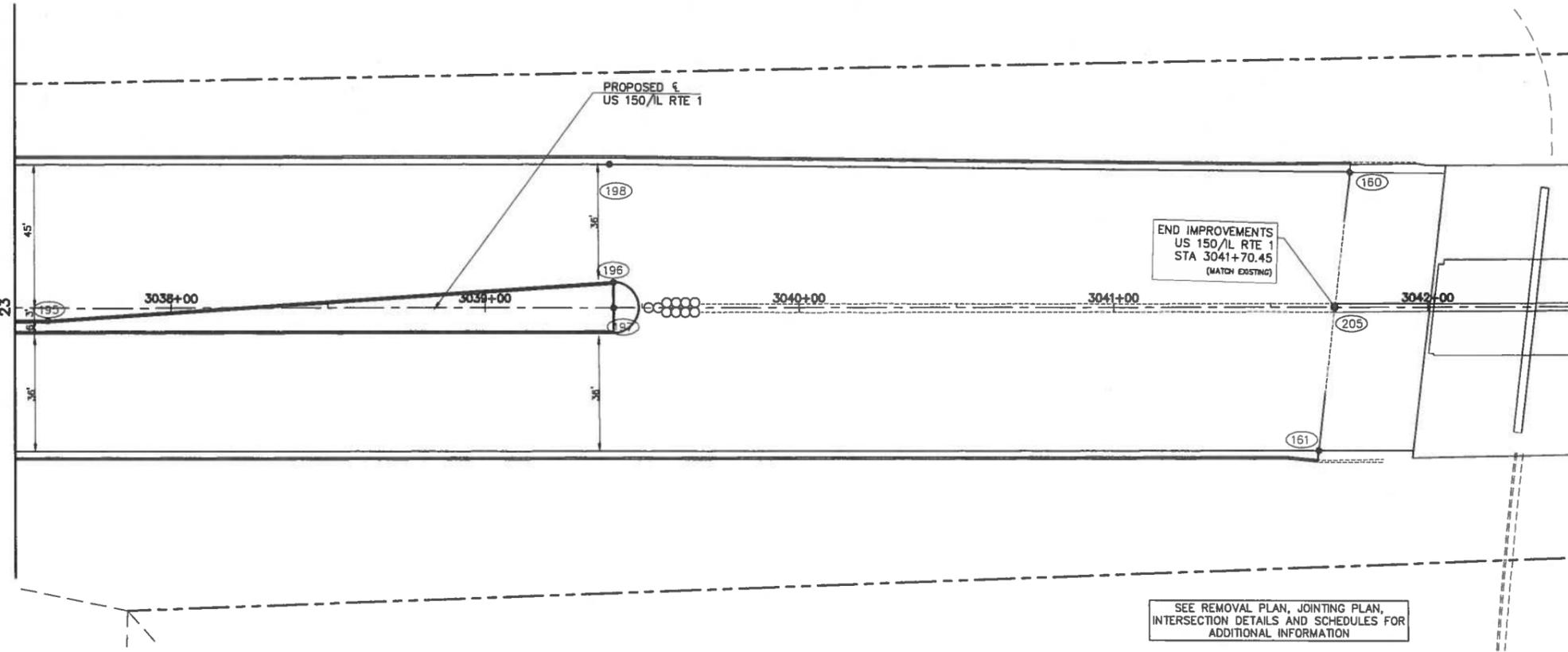
REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009



MATCHLINE STA 3037+50, SHEET 23



PAVEMENT CONTROL POINTS						
POINT	NORTHING	EASTING	CL STATION	CL OFFSET	CL REF	DESCRIPTION
160	1251644.732	1179347.245	3041-75.59	42.41' LT	US 150/IL RTE 1	END
161	1251638.622	1179434.384	3041-65.02	45.00' RT	US 150/IL RTE 1	END
195	1251233.024	1179414.834	3037-60.97	4.00' RT	US 150/IL RTE 1	BEGIN TAPER
196	1251413.146	1179383.475	3039-40.94	8.00' LT	US 150/IL RTE 1	END TAPER
197	1251412.56	1179401.464	3039-40.95	0.00' LT	US 150/IL RTE 1	RAD PT R+R
198	1251409.259	1179356.561	3039-39.94	45.01' LT	US 150/IL RTE 1	BEGIN TAPER
205	1251641.76	1179389.764	3041-70.45	0.00' LT	US 150/IL RTE 1	CL END WORK

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HORIZONTAL LAYOUT PLAN - IL RTE 1

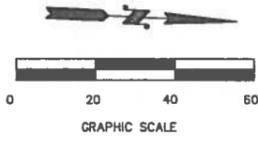
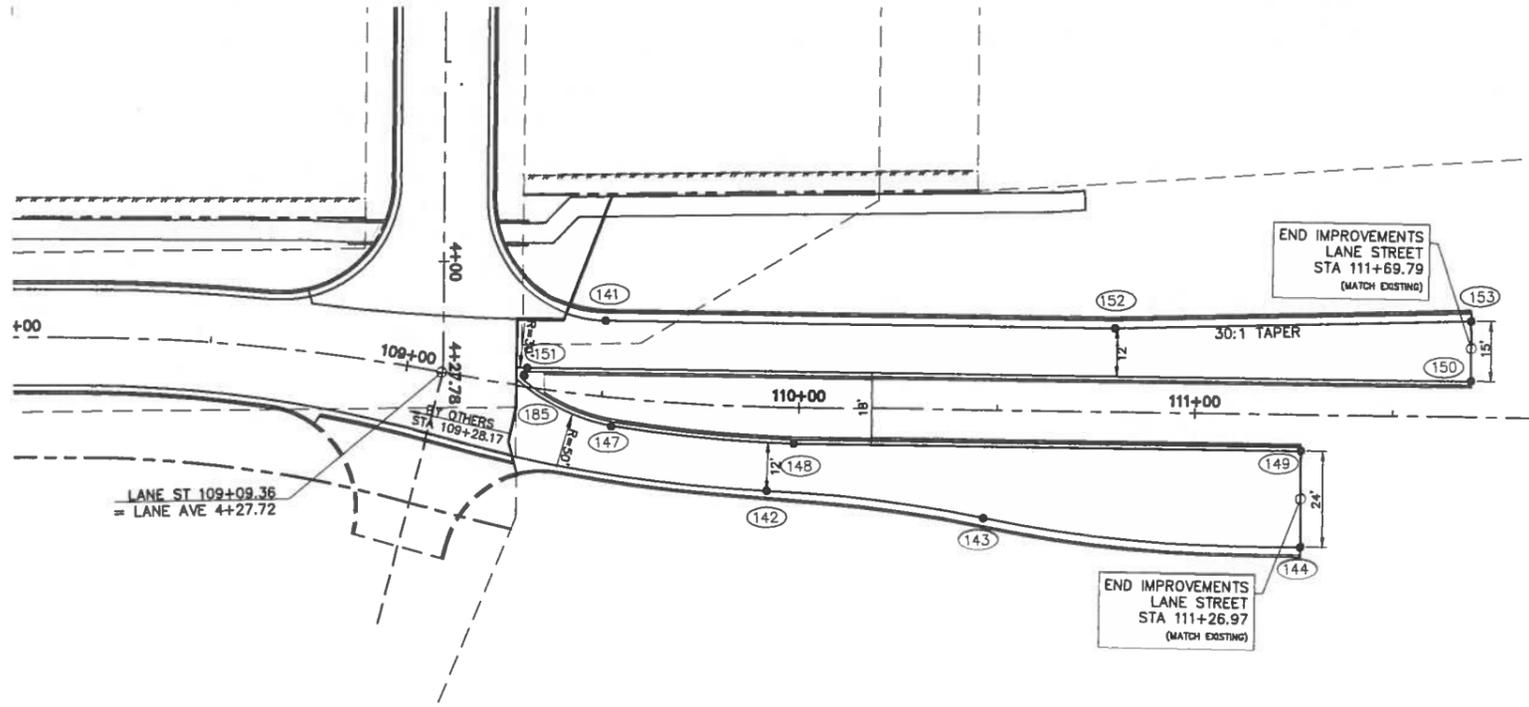
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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DATE: 2/23/17
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DATE: 2/23/17

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009



SEE REMOVAL PLAN, JOINTING PLAN, INTERSECTION DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION

PAVEMENT CONTROL POINTS						
POINT	NORTHING	EASTING	CL STATION	CL OFFSET	CL REF	DESCRIPTION
14	1249658.55	1179923.689	54+63.45	18.00' RT	SOUTHGATE DR	PT R=256.25'
142	1251383.907	1179101.64	109+92.10	20.84' RT	LANE ST	PRC R=362/377.55'
143	1251451.54	1179106.003	110+59.47	26.92' RT	LANE ST	PRC R=377.55'/377.55'
144	1251519.173	1179110.365	111+26.97	33.00' RT	LANE ST	PT R=377.55'
147	1251344.138	1179067.179	4+40.49	42.80' LT	LANE ST	PCC R=50'/350'
148	1251390.407	1179089.611	109+98.77	8.97' RT	LANE ST	PT R=350'
149	1251518.562	1179086.371	111+26.97	9.00' RT	LANE ST	CL END WORK
150	1251560.927	1179067.289	111+69.81	9.00' LT	LANE ST	CL END WORK
151	1251322.465	1179073.363	4+26.12	21.49' LT	LANE ST	PT R=500'
152	1251470.636	1179057.585	110+79.79	21.00' LT	LANE ST	BEGIN TAPER
153	1251560.527	1179052.294	111+69.79	24.00' LT	LANE ST	END TAPER
185	1251320.577	1179075.408	4+28.12	19.55' LT	LANE ST	RAD PT R=2'

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HORIZONTAL LAYOUT PLAN - LANE ST
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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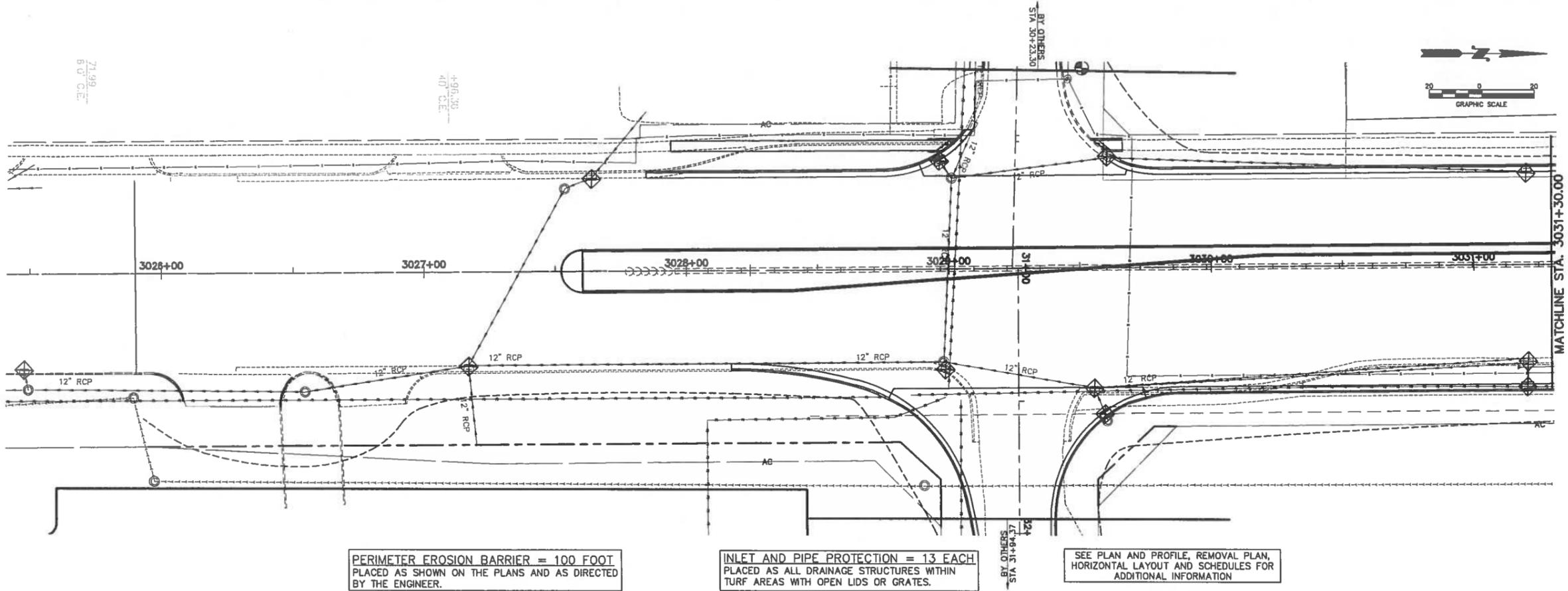
PROJECT NO.
14TIL009
25
SHEET 25 OF 73

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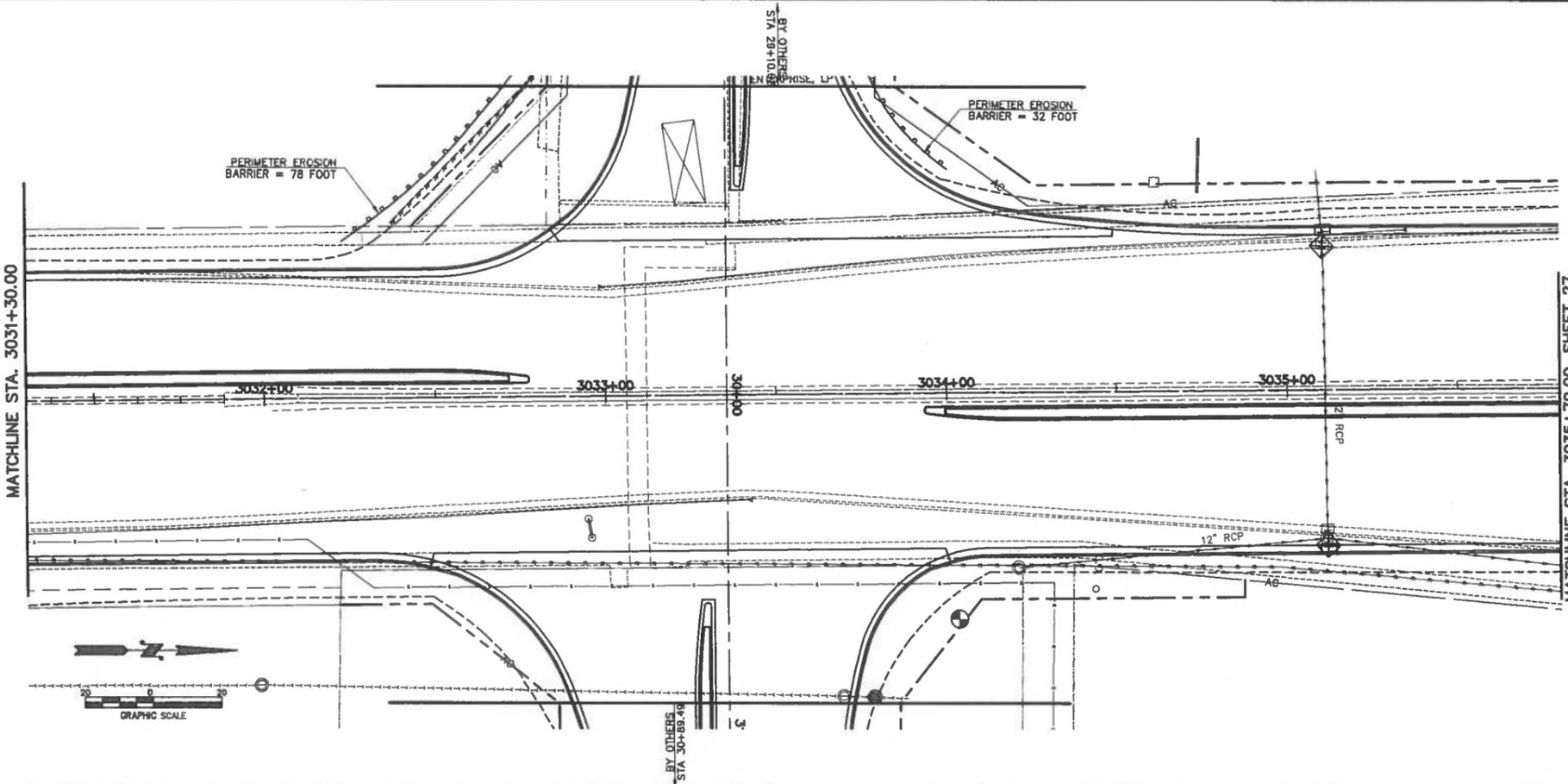
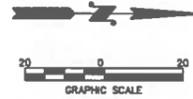
EROSION CONTROL PLAN - ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS



PERIMETER EROSION BARRIER = 100 FOOT
PLACED AS SHOWN ON THE PLANS AND AS DIRECTED
BY THE ENGINEER.

INLET AND PIPE PROTECTION = 13 EACH
PLACED AS ALL DRAINAGE STRUCTURES WITHIN
TURF AREAS WITH OPEN LIDS OR GRATES.

SEE PLAN AND PROFILE, REMOVAL PLAN,
HORIZONTAL LAYOUT AND SCHEDULES FOR
ADDITIONAL INFORMATION

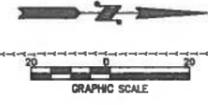


LEGEND

- PERIMETER EROSION BARRIER
- CONSTRUCTION LIMITS
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET

NOTES

- THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AT THE LOCATION SHOWN ON THE EROSION CONTROL PLAN AND AS DIRECTED BY THE ENGINEER. THE PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS IS NECESSARY TO SATISFY THE REQUIREMENTS OF THE NPDES PERMIT. THE WORK SHALL BE IN ACCORDANCE WITH STANDARD 280001 AND SECTION 280 OF THE STANDARD SPECIFICATIONS.
 - ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS MAY BE REQUIRED DURING CONSTRUCTION. THE SYSTEMS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATION.
 - TEMPORARY EROSION CONTROL SEEDING SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. A QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING EQUAL TO THE PERMANENT SODDING AREA HAS BEEN ALLOWED FOR THIS PROJECT.
 - THE MAINTENANCE OF THE TEMPORARY EROSION CONTROL SYSTEMS AS DESCRIBED IN ARTICLE 280.05 OF THE STANDARD SPECIFICATIONS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS EROSION CONTROL PAY ITEMS.
 - PERMANENT SODDING OF DISTURBED EARTH AREAS SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER COMPLETION OF EACH STAGE OF THE PROJECT TO EXPEDITE THE ESTABLISHMENT OF VEGETATION. SEE THE PROPOSED TYPICAL SECTIONS AND LANDSCAPE PLANS FOR THE LOCATION OF PROPOSED TURF AREA.
 - SEE THE PLAN AND PROFILE SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION.
- EROSION CONTROL SYSTEMS INSTALLATION SEQUENCE**
- REFER TO THE TRAFFIC CONTROL PLANS FOR THE DETAILED SEQUENCE OF CONSTRUCTION AND STAGING PLAN.
 - PLACE PERIMETER EROSION BARRIER AT THE LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. INSTALL INLET AND PIPE PROTECTION AND INLET FILTERS AT EXISTING DRAINAGE STRUCTURES PRIOR TO STARTING ANY WORK.
 - INSTALL INLET AND PIPE PROTECTION AND INLET FILTERS AT PROPOSED DRAINAGE STRUCTURES AS SOON AS THEY HAVE BEEN CONSTRUCTED. PLACE TEMPORARY EROSION CONTROL SEEDING AS SOON AS THE ROUGH GRADING IS COMPLETE OR AS DIRECTED BY THE ENGINEER.
 - MAINTAIN ALL EROSION CONTROL SYSTEMS UNTIL SUCH TIME THAT THEY CAN BE REMOVED AS DIRECTED BY THE ENGINEER.
 - PLACE SOD AS SOON AS FINAL GRADING AND SHAPING IS COMPLETE.
 - REMOVE AND CLEANUP ALL REMAINING EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER.



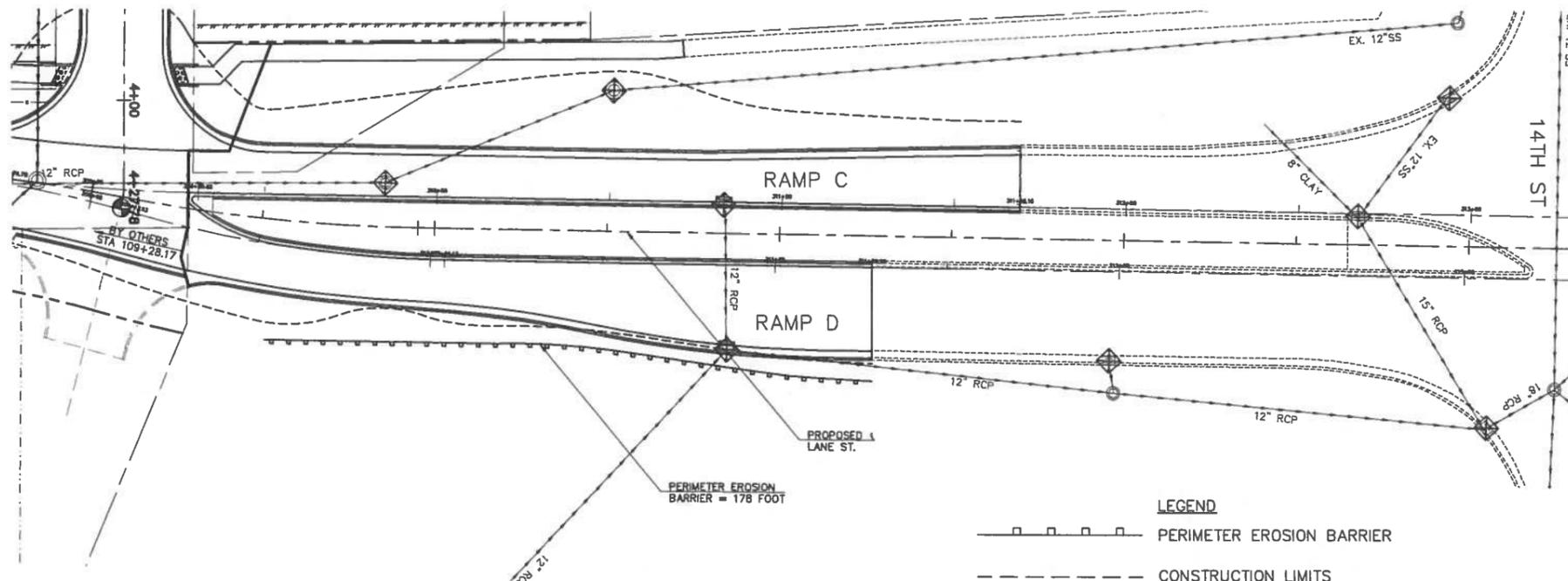
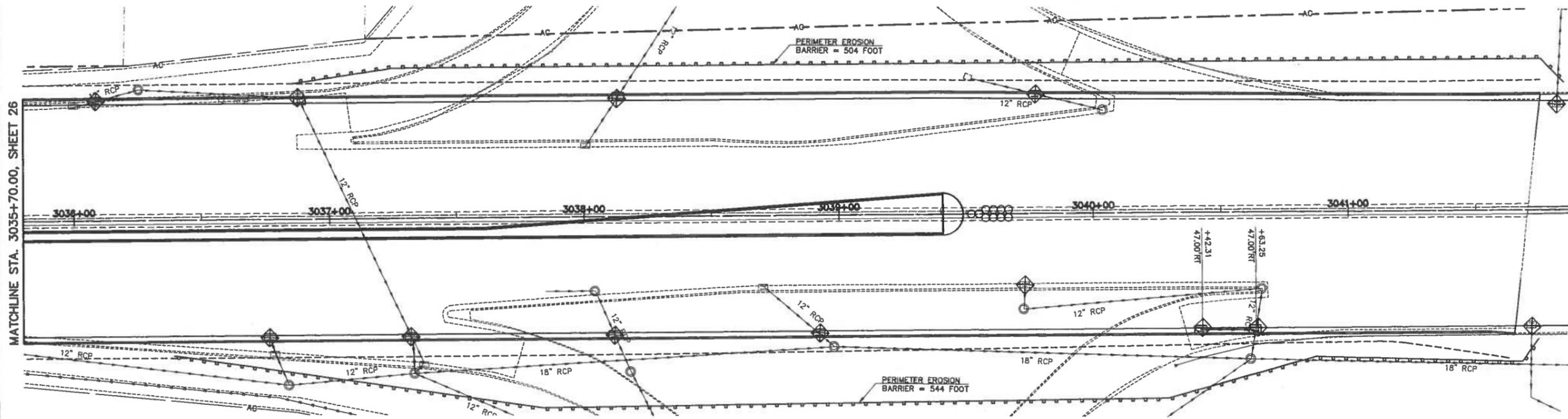
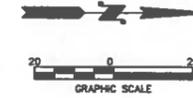
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PROJECT NO.	14TIL009
SHEET	26
TOTAL SHEETS	73

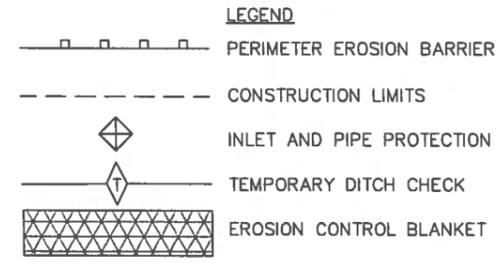
PERIMETER EROSION BARRIER = 1226 FOOT
 PLACED AS SHOWN ON THE PLANS AND AS DIRECTED
 BY THE ENGINEER.

INLET AND PIPE PROTECTION = 23 EACH
 PLACED AS ALL DRAINAGE STRUCTURES WITHIN
 TURF AREAS WITH OPEN LIDS OR GRATES.



- NOTES**
1. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AT THE LOCATION SHOWN ON THE EROSION CONTROL PLAN AND AS DIRECTED BY THE ENGINEER. THE PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS IS NECESSARY TO SATISFY THE REQUIREMENTS OF THE NPDES PERMIT. THE WORK SHALL BE IN ACCORDANCE WITH STANDARD 280001 AND SECTION 280 OF THE STANDARD SPECIFICATIONS. ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS MAY BE REQUIRED DURING CONSTRUCTION. THE SYSTEMS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATION.
 2. TEMPORARY EROSION CONTROL SEEDING SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. A QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING EQUAL TO THE PERMANENT SODDING AREA HAS BEEN ALLOWED FOR THIS PROJECT.
 3. THE MAINTENANCE OF THE TEMPORARY EROSION CONTROL SYSTEMS AS DESCRIBED IN ARTICLE 280.05 OF THE STANDARD SPECIFICATIONS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS EROSION CONTROL PAY ITEMS.
 4. PERMANENT SODDING OF DISTURBED EARTH AREAS SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER COMPLETION OF EACH STAGE OF THE PROJECT TO EXPEDITE THE ESTABLISHMENT OF VEGETATION. SEE THE PROPOSED TYPICAL SECTIONS AND LANDSCAPE PLANS FOR THE LOCATION OF PROPOSED TURF AREA.
 5. SEE THE PLAN AND PROFILE SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION.

- EROSION CONTROL SYSTEMS INSTALLATION SEQUENCE**
1. REFER TO THE TRAFFIC CONTROL PLANS FOR THE DETAILED SEQUENCE OF CONSTRUCTION AND STAGING PLAN.
 2. PLACE PERIMETER EROSION BARRIER AT THE LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. INSTALL INLET AND PIPE PROTECTION AND INLET FILTERS AT EXISTING DRAINAGE STRUCTURES PRIOR TO STARTING ANY WORK.
 3. INSTALL INLET AND PIPE PROTECTION AND INLET FILTERS AT PROPOSED DRAINAGE STRUCTURES AS SOON AS THEY HAVE BEEN CONSTRUCTED. PLACE TEMPORARY EROSION CONTROL SEEDING AS SOON AS THE ROUGH GRADING IS COMPLETE OR AS DIRECTED BY THE ENGINEER.
 4. MAINTAIN ALL EROSION CONTROL SYSTEMS UNTIL SUCH TIME THAT THEY CAN BE REMOVED AS DIRECTED BY THE ENGINEER.
 5. PLACE SOD AS SOON AS FINAL GRADING AND SHAPING IS COMPLETE.
 6. REMOVE AND CLEANUP ALL REMAINING EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER.



SEE PLAN AND PROFILE, REMOVAL PLAN, HORIZONTAL LAYOUT AND SCHEDULES FOR ADDITIONAL INFORMATION

EROSION CONTROL PLAN - ROUTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

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PROJECT NO.
 14TIL009

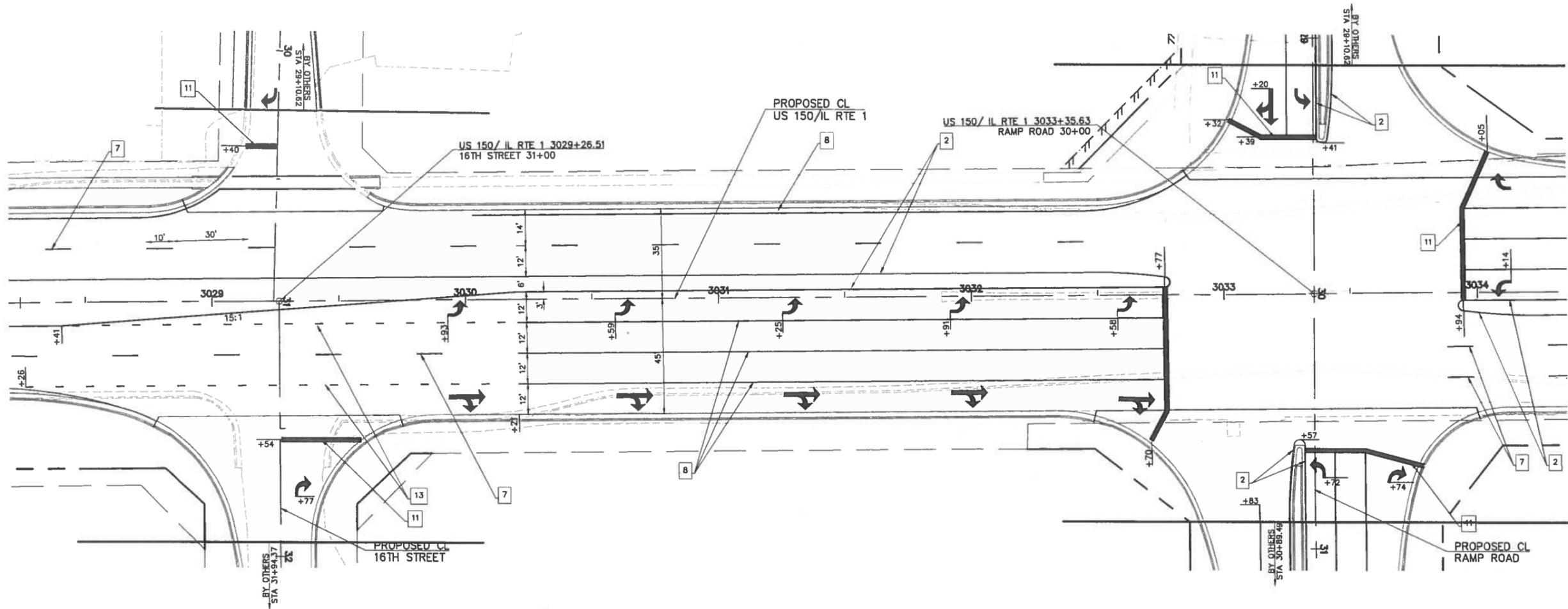
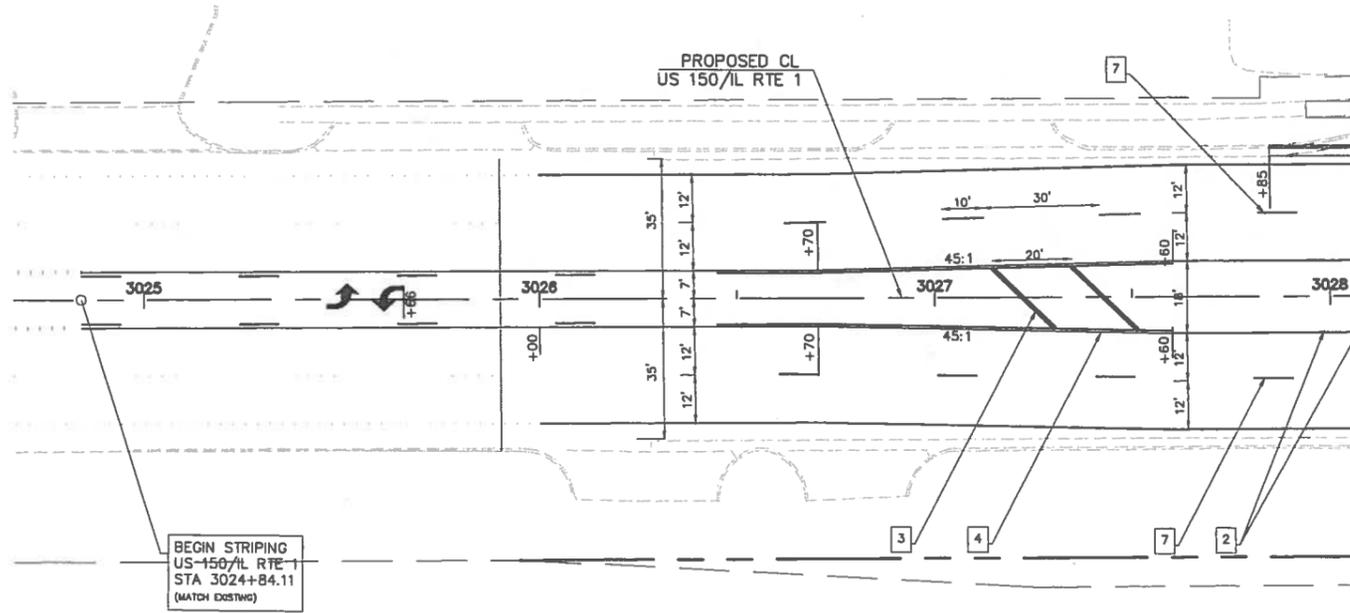
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SEE IDOT D5 STD 7800AAA
FOR ADDITIONAL INFORMATION

SEE PLAN AND PROFILE, REMOVAL PLAN,
STRIPING PLAN, INTERSECTION DETAILS AND
SCHEDULES FOR ADDITIONAL INFORMATION

PAVEMENT MARKING LEGEND

- 1 4" SKIP-DASH (YELLOW)
- 2 4" SOLID (YELLOW)
- 3 12" DIAGONAL (YELLOW)
- 4 4" DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" SKIP-DASH (WHITE)
- 8 4" SOLID (WHITE)
- 9 12" DIAGONAL (WHITE)
- 10 6" SOLID (WHITE)
- 11 24" STOP BAR (WHITE)
- 12 8" SOLID (WHITE)
- 13 4" LANE LINE
- 14 4" PARKING WHITE



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STRIPING PLAN - ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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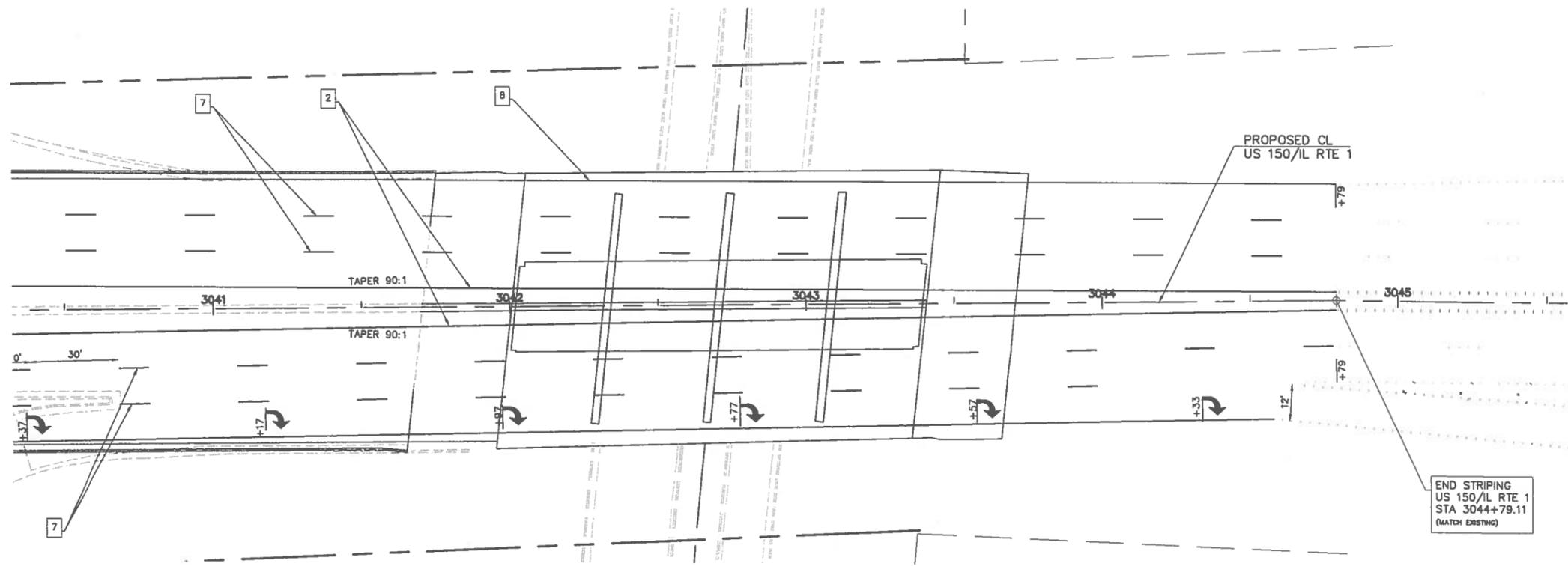
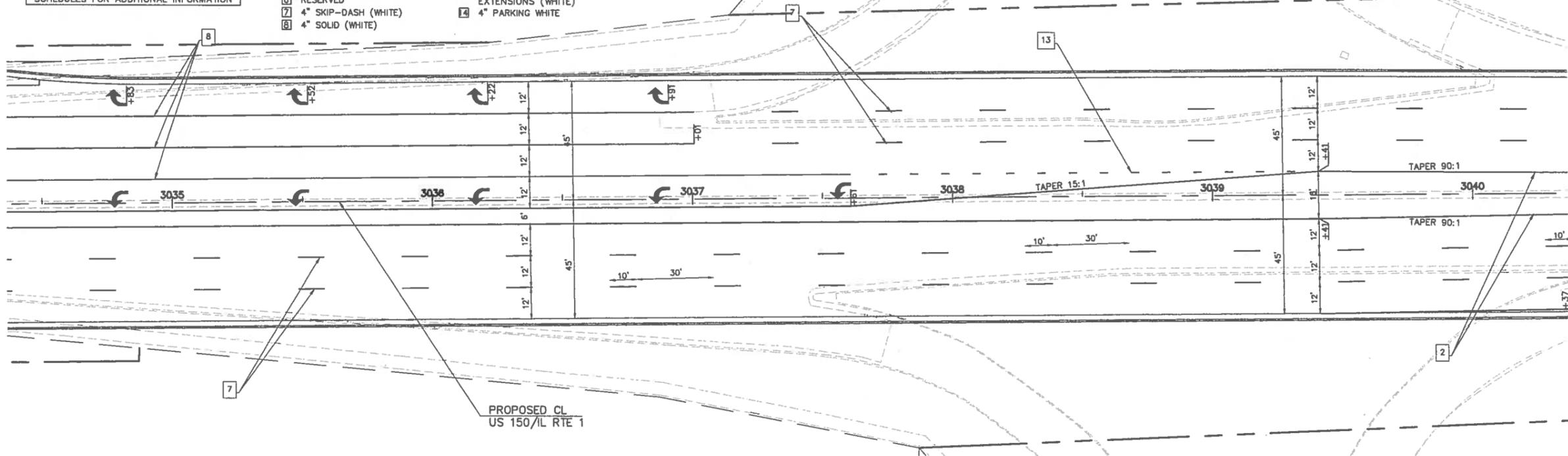
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PROJECT NO.
14TIL009

SEE IDOT D5 STD 7800AAA FOR ADDITIONAL INFORMATION

SEE PLAN AND PROFILE, REMOVAL PLAN, STRIPING PLAN, INTERSECTION DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION

- PAVEMENT MARKING LEGEND**
- 1 4" SKIP-DASH (YELLOW)
 - 2 4" SOLID (YELLOW)
 - 3 12" DIAGONAL (YELLOW)
 - 4 4" DOUBLE YELLOW (NARROW)
 - 5 RESERVED
 - 6 RESERVED
 - 7 4" SKIP-DASH (WHITE)
 - 8 4" SOLID (WHITE)
 - 9 12" DIAGONAL (WHITE)
 - 10 6" SOLID (WHITE)
 - 11 24" STOP BAR (WHITE)
 - 12 8" SOLID (WHITE)
 - 13 4" LANE LINE
 - 14 EXTENSIONS (WHITE)
 - 15 4" PARKING WHITE



END STRIPING
US 150/IL RTE 1
STA 3044+79.11
(MATCH EXISTING)

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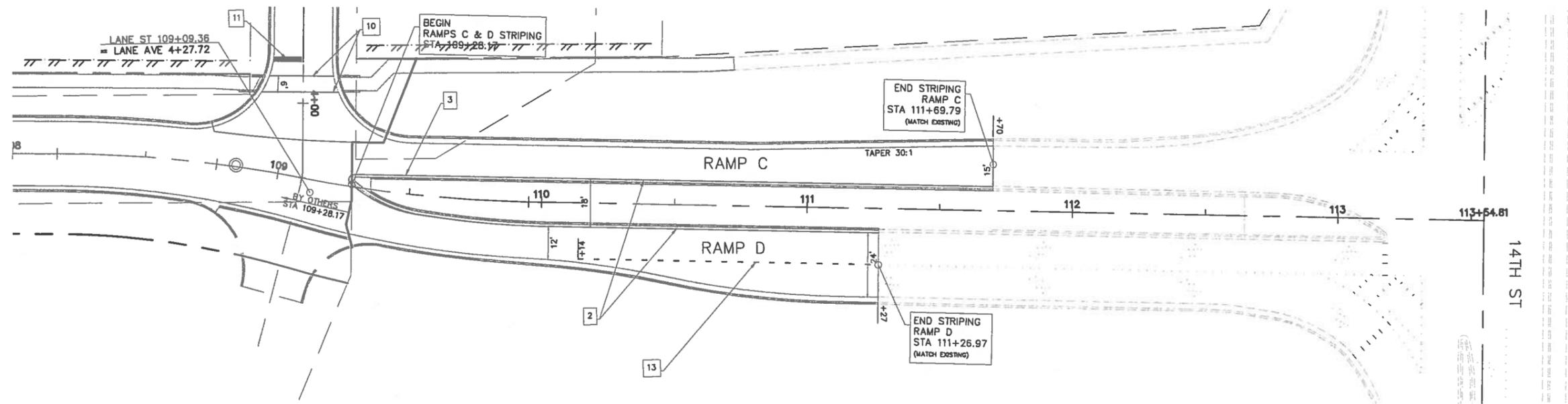
STRIPING PLAN - ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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SEE IDOT D5 STD 7800AAA FOR ADDITIONAL INFORMATION

PAVEMENT MARKING LEGEND

1	4" SKIP-DASH (YELLOW)
2	4" SOLID (YELLOW)
3	12" DIAGONAL (YELLOW)
4	4" DOUBLE YELLOW (NARROW)
5	RESERVED
6	RESERVED
7	4" SKIP-DASH (WHITE)
8	4" SOLID (WHITE)
9	12" DIAGONAL (WHITE)
10	6" SOLID (WHITE)
11	24" STOP BAR (WHITE)
12	8" SOLID (WHITE)
13	4" LANE LINE EXTENSIONS (WHITE)
14	4" PARKING WHITE

SEE PLAN AND PROFILE, REMOVAL PLAN, STRIPING PLAN, INTERSECTION DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION

STRIPING PLAN - LANE ST
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

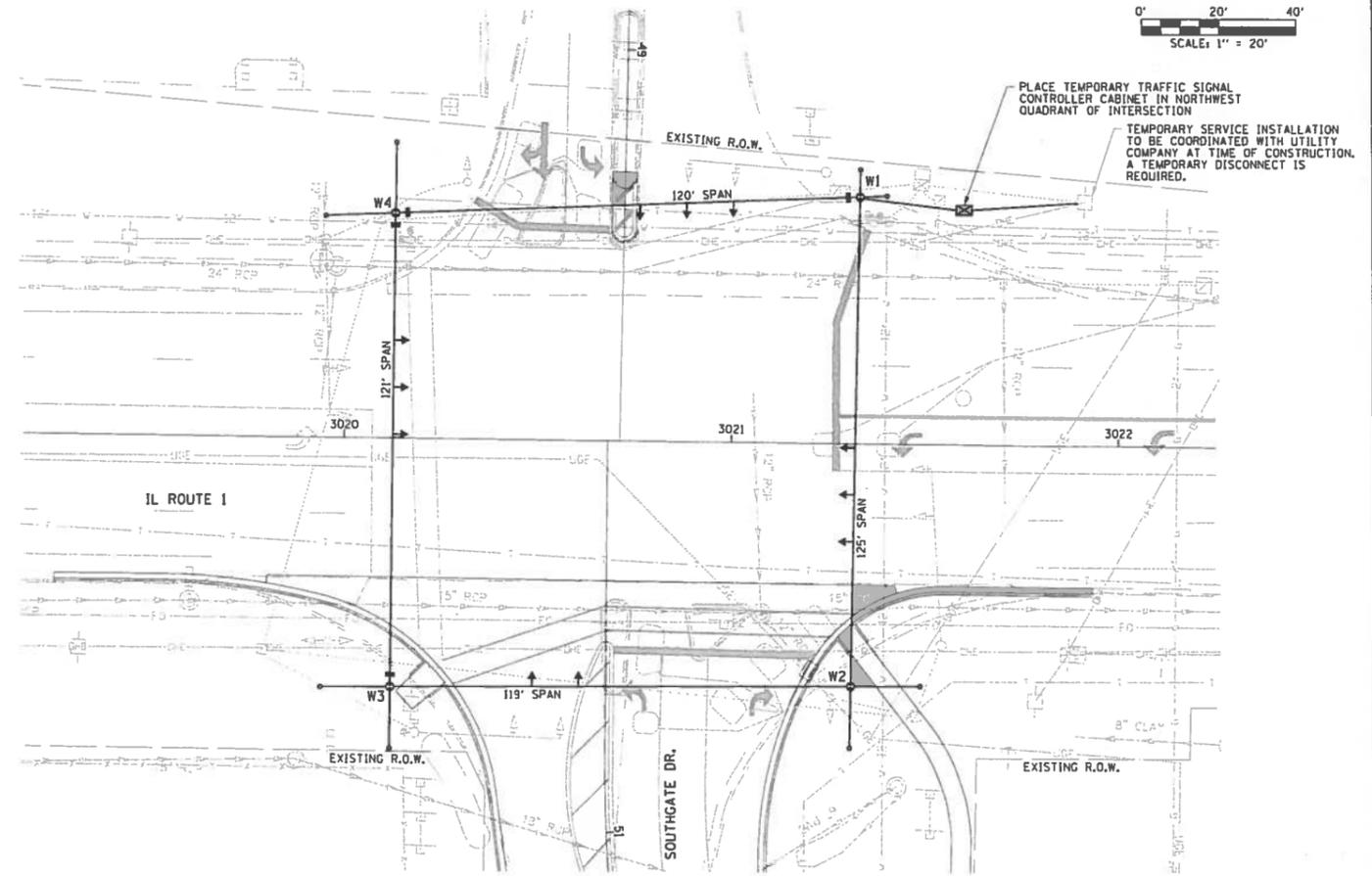
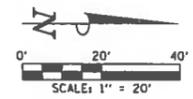
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APPROV BY: TLO	DATE: 2/23/17

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1	11/21	BWS	CORRECTED PAGE NUMBER

PROJECT NO.
14TIL009

TEMPORARY TRAFFIC SIGNAL PLAN GENERAL NOTES

1. ALL EQUIPMENT REQUIRED FOR THE TEMPORARY TRAFFIC SIGNALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. THE TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO DISCONNECTION OF THE EXISTING TRAFFIC SIGNALS. THE PROPOSED TRAFFIC SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO DISCONNECTION OF THE TEMPORARY TRAFFIC SIGNALS. THE SWITCHOVERS SHALL BE PERFORMED DURING NON-PEAK TRAFFIC HOURS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
3. THE TEMPORARY TRAFFIC SIGNALS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WOOD POLES OF SUFFICIENT LENGTH TO MAINTAIN THE CLEARANCE REQUIREMENTS SHOWN IN STANDARD 880001.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WOOD POLES OF THE CLASS REQUIRED TO SUPPORT THE TEMPORARY TRAFFIC SIGNAL INSTALLATION IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS.
6. ALL HARDWARE NECESSARY TO INSTALL THE SPAN WIRE, SIGNAL HEADS, WOOD POLES, GUY WIRES, AND ANY OTHER ITEMS NECESSARY FOR THE COMPLETE INSTALLATION OF THE TEMPORARY TRAFFIC SIGNALS SHALL BE PROVIDED BY THE CONTRACTOR.
7. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE A FULLY-ACTUATED NEMA MICROPROCESSOR-BASED CONTROLLER INSTALLED IN A CABINET. THE CONTROLLER SHALL ACCOMMODATE 8 VEHICLE PHASES AND 4 PEDESTRIAN PHASES AND SHALL BE CAPABLE OF SUPPLYING 255 SECONDS OF CYCLE LENGTH WITH INDIVIDUAL PHASE LENGTH SETTINGS UP TO 99 SECONDS.
8. ALL TEMPORARY TRAFFIC AND PEDESTRIAN SIGNAL FACES SHALL HAVE 12 INCH LENSES. THE TEMPORARY SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE EACH TEMPORARY SIGNAL HEAD TO ANY POSITION ON ITS SPAN WIRE OR WOOD POLE. EACH TEMPORARY SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
9. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING LOCATIONS AND RELOCATED AND SECURELY FASTENED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS DIRECTED BY THE ENGINEER.
10. THE PROPOSED SIGNAL TIMINGS FOR THE TEMPORARY CONTROLLER WILL BE PROVIDED BY THE VILLAGE OF TILTON. THE TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE PRE-TIMED.
11. ALL LABOR AND MATERIALS REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE ITEMS AND QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
12. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY DELAYS OR SIGNAL HEAD RELOCATIONS RESULTING FROM UTILITY RELOCATIONS, CHANGES IN STAGING, REMOVAL OF EXISTING SIGNALS, OR INSTALLATION OF PROPOSED SIGNALS.
13. THE LOCATIONS OF WOOD POLES AND GUY WIRES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. SIDEWALK GUYS SHALL BE USED ACROSS SIDEWALKS, AT LOCATIONS WITHOUT AVAILABLE SPACE TO INSTALL A STANDARD GUY, AT LOCATIONS WITH LIMITED RIGHT OF WAY, AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.



Clark Dietz
 DESIGN FIRM REGISTRATION
 No. 184-000450
 125 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.373.5900 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
 TEMPORARY TRAFFIC SIGNAL PLAN - SOUTHGATE DRIVE
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

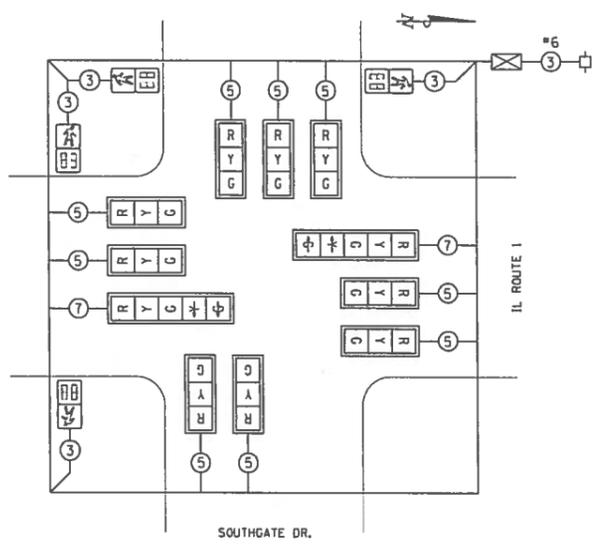
DESIGNED BY: JAJ
 DATE: 03/2018
 DRAWN BY: JAJ
 DATE: 03/2018
 CHECKED BY: SMW
 DATE: 03/2018
 APPROVED BY: JAJ
 DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
 14TIL009
 32
 SHEET 32 OF 73

TEMPORARY WOOD POLE APPROXIMATE LOCATIONS

NO.	STATION	OFFSET
W1	3021+33.0	63.0' LT
W2	3021+31.0	62.0' RT
W3	3020+12.0	63.5' RT
W4	3020+13.0	57.5' LT

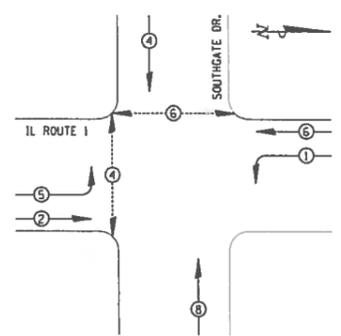


TEMPORARY CABLE DIAGRAM LEGEND

- ☒ TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET
- ☐ TEMPORARY SERVICE INSTALLATION
- ☐-☐ TEMPORARY TRAFFIC SIGNAL FACE WITH BACKPLATE
- ☐-☐ TEMPORARY PEDESTRIAN SIGNAL FACE
- ⑤ NUMBER OF CONDUCTORS IN CABLE ALL CABLE #14 EXCEPT AS INDICATED

TEMPORARY CABLE DIAGRAM

NO SCALE



TEMPORARY PHASE DESIGNATION DIAGRAM LEGEND

- ⊙ VEHICULAR PHASE
- ⊙ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

NO SCALE

TEMPORARY TRAFFIC SIGNAL PLAN LEGEND

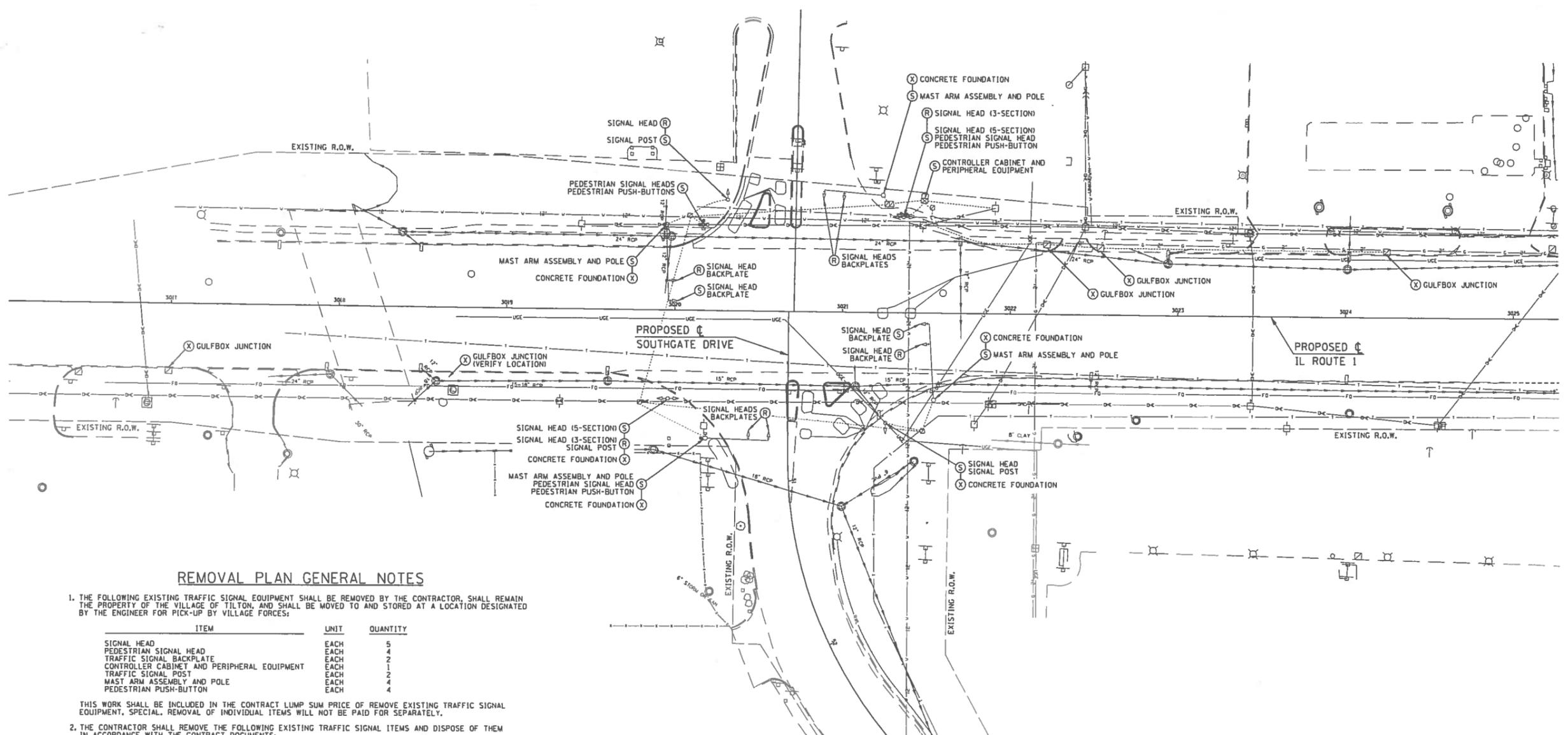
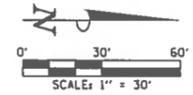
- ← TEMPORARY TRAFFIC SIGNAL HEAD, SPAN WIRE MOUNTED
- ⊙ TEMPORARY PEDESTRIAN SIGNAL HEAD, POLE MOUNTED
- ⊙ TEMPORARY WOOD POLE
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊙ TEMPORARY GUY WIRE
- ☒ TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET

TEMPORARY TRAFFIC SIGNAL PLAN BILL OF MATERIALS

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1

PROFESSIONAL ENGINEER
 CLARK DIETZ, INC.
 FOR SHEETS 32-45
 DATE: 03.01.2018
 LICENSE EXPIRES 11/30/2019





REMOVAL PLAN GENERAL NOTES

1. THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE VILLAGE OF TILTON, AND SHALL BE MOVED TO AND STORED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICK-UP BY VILLAGE FORCES:

ITEM	UNIT	QUANTITY
SIGNAL HEAD	EACH	5
PEDESTRIAN SIGNAL HEAD	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	2
CONTROLLER CABINET AND PERIPHERAL EQUIPMENT	EACH	1
TRAFFIC SIGNAL POST	EACH	2
MAST ARM ASSEMBLY AND POLE	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4

THIS WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL. REMOVAL OF INDIVIDUAL ITEMS WILL NOT BE PAID FOR SEPARATELY.

2. THE CONTRACTOR SHALL REMOVE THE FOLLOWING EXISTING TRAFFIC SIGNAL ITEMS AND DISPOSE OF THEM IN ACCORDANCE WITH THE CONTRACT DOCUMENTS:

ITEM	UNIT	QUANTITY
GULFBOX JUNCTION	EACH	5
CONCRETE FOUNDATION	EACH	6

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR GULFBOX JUNCTION REMOVAL AND REMOVE EXISTING CONCRETE FOUNDATION.

3. THE CONTRACTOR SHALL REMOVE THE FOLLOWING EXISTING TRAFFIC SIGNAL ITEMS AND INSTALL THEM AT THE LOCATIONS SHOWN ON THE TRAFFIC SIGNAL LAYOUT:

ITEM	UNIT	QUANTITY
SIGNAL HEAD	EACH	9
TRAFFIC SIGNAL POST	EACH	1

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RELOCATE EXISTING SIGNAL HEAD AND RELOCATE EXISTING TRAFFIC SIGNAL POST. RELOCATING A TRAFFIC SIGNAL BACKPLATE WITH A SIGNAL HEAD WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF RELOCATE EXISTING SIGNAL HEAD, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SEE THE TRAFFIC SIGNAL LAYOUT FOR ADDITIONAL INFORMATION.

4. THE CONTRACTOR SHALL REMOVE THE EXISTING REGULATORY AND STREET NAME SIGNS FROM THE EXISTING TRAFFIC SIGNAL EQUIPMENT AND RETURN THEM TO THE VILLAGE OF TILTON. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

5. THE EXISTING DETECTOR LOOPS SHALL BE DISCONNECTED FROM THEIR LEAD-IN CABLES AND ABANDONED IN PLACE. THE EXISTING TRAFFIC SIGNAL LEAD-IN, AND SERVICE CABLES SHALL BE REMOVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EXISTING CABLES THAT ARE REMOVED SHALL NOT BE REUSED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

REMOVAL PLAN BILL OF MATERIALS

ITEM	UNIT	QUANTITY
GULFBOX JUNCTION REMOVAL	EACH	5
RELOCATE EXISTING SIGNAL HEAD	EACH	9
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, SPECIAL	LSUM	1

REMOVAL PLAN KEY

- (X) REMOVE AND DISPOSE OF
- (S) REMOVE AND SALVAGE
- (R) REMOVE AND RELOCATE (SEE TRAFFIC SIGNAL LAYOUT)

ClarkDietz

DESIGN FIRM REGISTRATION
No. 194-000450
125 WEST CHURCH STREET
CHAMPAIGN, IL 61820
PHONE: 217.373.8800 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL REMOVAL PLAN - SOUTHGATE DRIVE
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ
DATE: 03/2018
DRAWN BY: JAJ
DATE: 03/2018
CHECKED BY: SMW
DATE: 03/2018
APPROVED BY: JAJ
DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

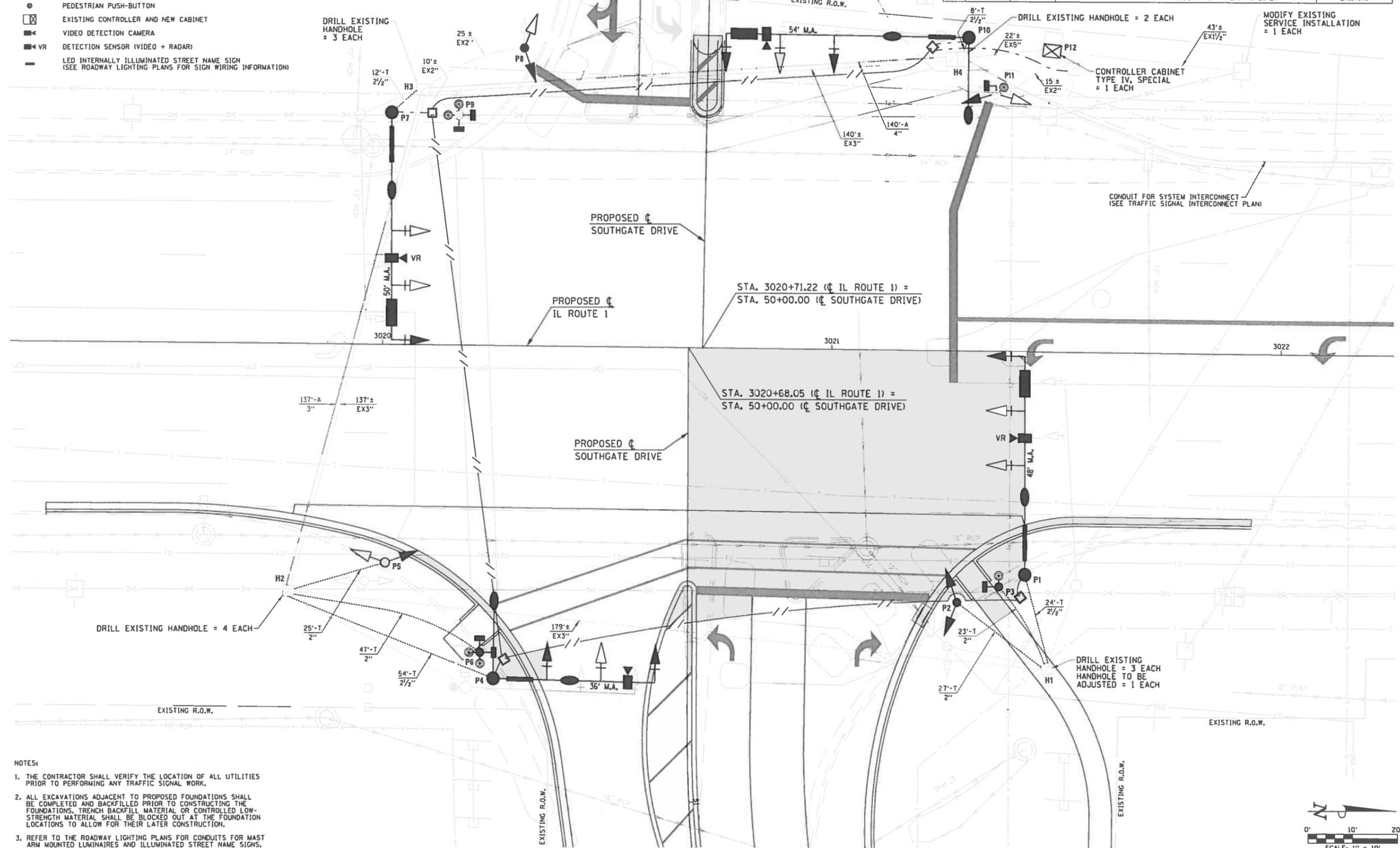
PROJECT NO.
14TIL009

TRAFFIC SIGNAL LEGEND

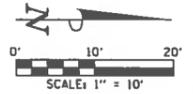
CONDUIT BORED AND PULLED (A)	EXISTING HANDHOLE, PORTLAND CEMENT CONCRETE
CONDUIT IN TRENCH (T)	EXISTING DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE
STEEL COMB. MAST ARM ASSEMBLY AND POLE (SEE ROADWAY LIGHTING PLANS FOR LUMINAIRE AND LUMINAIRE WIRING INFORMATION)	LIGHT POLE (SEE ROADWAY LIGHTING PLANS)
SIGNAL POST	JUNCTION BOX (SEE ROADWAY LIGHTING PLANS)
RELOCATED SIGNAL POST	CONDUIT BORED AND PULLED (SEE ROADWAY LIGHTING PLANS)
SIGNAL HEAD	CONDUIT IN TRENCH (SEE ROADWAY LIGHTING PLANS)
RELOCATED SIGNAL HEAD	MAST ARM MOUNTED DAMPENING DEVICE
SIGNAL HEAD WITH BACKPLATE	
RELOCATED SIGNAL HEAD WITH BACKPLATE	
PEDESTRIAN SIGNAL HEAD	
PEDESTRIAN PUSH-BUTTON	
EXISTING CONTROLLER AND NEW CABINET	
VIDEO DETECTION CAMERA	
DETECTION SENSOR (VIDEO + RADAR)	
LED INTERNALLY ILLUMINATED STREET NAME SIGN (SEE ROADWAY LIGHTING PLANS FOR SIGN WIRING INFORMATION)	

HANDHOLE DATA			
NO.	STATION	OFFSET	DESCRIPTION
H1	3021+47.9	69.6' RT	EXISTING HANDHOLE, PORTLAND CEMENT CONCRETE
H2	3019+79.0	54.4' RT	EXISTING HANDHOLE, PORTLAND CEMENT CONCRETE
H3	3020+08.7	55.9' LT	EXISTING HANDHOLE, PORTLAND CEMENT CONCRETE
H4	3021+27.8	64.1' LT	EXISTING DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE

POST, MAST ARM, AND CONTROLLER CABINET DATA				
NO.	STATION	OFFSET	DESCRIPTION	FOUNDATION
P1	3021+43.0	49.0' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	E - 36" DIA. - 13'
P2	3021+27.8	55.3' RT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P3	3021+37.2	51.8' RT	TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	A
P4	3020+24.5	73.2' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	E - 36" DIA. - 11'
P5	3020+00.5	48.0' RT	RELOCATED TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P6	3020+21.6	67.5' RT	TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	A
P7	3020+02.0	51.0' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	E - 36" DIA. - 15'
P8	3020+31.5	65.5' LT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EXISTING
P9	3020+16.9	50.6' LT	EXISTING TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	EXISTING
P10	3021+30.4	68.9' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. (SPECIAL)	E - 36" DIA. - 15'
P11	3021+36.5	56.4' LT	EXISTING TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EXISTING
P12	3021+48.9	66.2' LT	EXISTING FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EXISTING



- NOTES:
1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO PERFORMING ANY TRAFFIC SIGNAL WORK.
 2. ALL EXCAVATIONS ADJACENT TO PROPOSED FOUNDATIONS SHALL BE COMPLETED AND BACKFILLED PRIOR TO CONSTRUCTING THE FOUNDATIONS. TRENCH BACKFILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL SHALL BE BLOCKED OUT AT THE FOUNDATION LOCATIONS TO ALLOW FOR THEIR LATER CONSTRUCTION.
 3. REFER TO THE ROADWAY LIGHTING PLANS FOR CONDUITS FOR MAST ARM MOUNTED LUMINAIRES AND ILLUMINATED STREET NAME SIGNS.



Clark Dietz
 DESIGN FIRM REGISTRATION No. 184-000450
 125 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.373.8900 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
 TRAFFIC SIGNAL LAYOUT - SOUTHGATE DRIVE
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ	DATE: 03/2018
DRAWN BY: JAJ	DATE: 03/2018
CHECKED BY: SWW	DATE: 03/2018
APPROVED BY: JAJ	DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

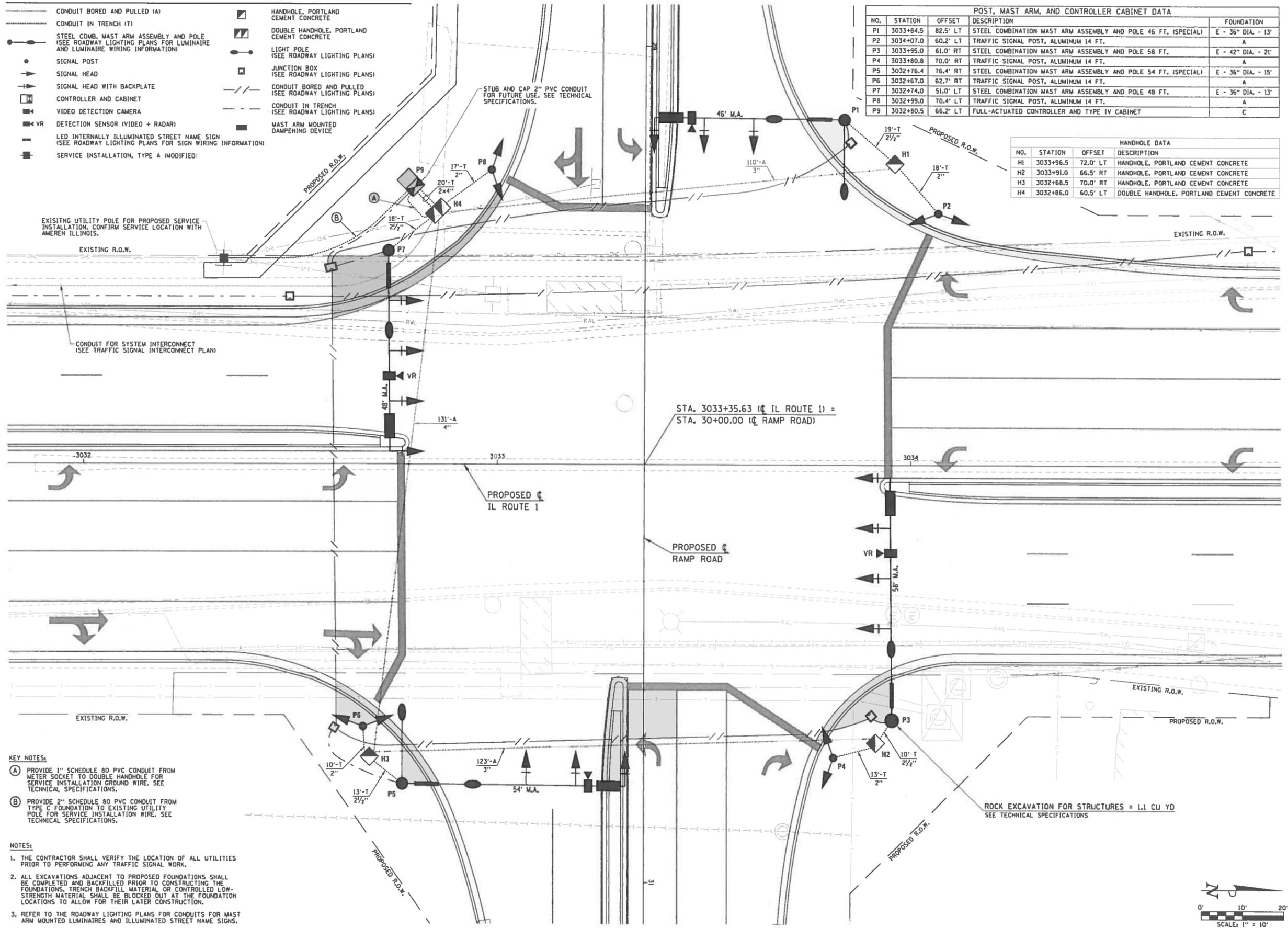
PROJECT NO
 14TIL009
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TRAFFIC SIGNAL LEGEND

- CONDUIT BORED AND PULLED (A)
- CONDUIT IN TRENCH (T)
- STEEL COMB. MAST ARM ASSEMBLY AND POLE (SEE ROADWAY LIGHTING PLANS FOR LUMINAIRE AND LUMINAIRE WIRING INFORMATION)
- SIGNAL POST
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- CONTROLLER AND CABINET
- VIDEO DETECTION CAMERA
- VR
- DETECTION SENSOR (VIDEO + RADAR)
- LED INTERNALLY ILLUMINATED STREET NAME SIGN (SEE ROADWAY LIGHTING PLANS FOR SIGN WIRING INFORMATION)
- SERVICE INSTALLATION, TYPE A (MODIFIED)
- HANDHOLE, PORTLAND CEMENT CONCRETE
- DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE
- LIGHT POLE (SEE ROADWAY LIGHTING PLANS)
- JUNCTION BOX (SEE ROADWAY LIGHTING PLANS)
- CONDUIT BORED AND PULLED (SEE ROADWAY LIGHTING PLANS)
- CONDUIT IN TRENCH (SEE ROADWAY LIGHTING PLANS)
- MAST ARM MOUNTED DAMPENING DEVICE

POST, MAST ARM, AND CONTROLLER CABINET DATA				
NO.	STATION	OFFSET	DESCRIPTION	FOUNDATION
P1	3033+84.5	82.5' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	E - 36" DIA. - 13'
P2	3034+07.0	60.2' LT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P3	3033+95.0	61.0' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	E - 42" DIA. - 21'
P4	3033+80.8	70.0' RT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P5	3032+76.4	76.4' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. (SPECIAL)	E - 36" DIA. - 15'
P6	3032+67.0	62.7' RT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P7	3032+74.0	51.0' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	E - 36" DIA. - 13'
P8	3032+99.0	70.4' LT	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	A
P9	3032+80.5	66.2' LT	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	C

HANDHOLE DATA			
NO.	STATION	OFFSET	DESCRIPTION
H1	3033+96.5	72.0' LT	HANDHOLE, PORTLAND CEMENT CONCRETE
H2	3033+91.0	66.5' RT	HANDHOLE, PORTLAND CEMENT CONCRETE
H3	3032+68.5	70.0' RT	HANDHOLE, PORTLAND CEMENT CONCRETE
H4	3032+86.0	60.5' LT	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE



- KEY NOTES:**
- (A) PROVIDE 1" SCHEDULE 80 PVC CONDUIT FROM METER SOCKET TO DOUBLE HANDHOLE FOR SERVICE INSTALLATION GROUND WIRE. SEE TECHNICAL SPECIFICATIONS.
 - (B) PROVIDE 2" SCHEDULE 80 PVC CONDUIT FROM TYPE C FOUNDATION TO EXISTING UTILITY POLE FOR SERVICE INSTALLATION WIRE. SEE TECHNICAL SPECIFICATIONS.

- NOTES:**
1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO PERFORMING ANY TRAFFIC SIGNAL WORK.
 2. ALL EXCAVATIONS ADJACENT TO PROPOSED FOUNDATIONS SHALL BE COMPLETED AND BACKFILLED PRIOR TO CONSTRUCTING THE FOUNDATIONS. TRENCH BACKFILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL SHALL BE BLOCKED OUT AT THE FOUNDATION LOCATIONS TO ALLOW FOR THEIR LATER CONSTRUCTION.
 3. REFER TO THE ROADWAY LIGHTING PLANS FOR CONDUITS FOR MAST ARM MOUNTED LUMINAIRES AND ILLUMINATED STREET NAME SIGNS.

ROCK EXCAVATION FOR STRUCTURES = 1.1 CU YD
SEE TECHNICAL SPECIFICATIONS



ClarkDietz
 DESIGN FIRM REGISTRATION
 No. 104-000450
 125 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.373.8900 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
 TRAFFIC SIGNAL LAYOUT - RAMP ROAD
TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
JAJ	03/2018	JAJ	03/2018	SAW	03/2018	JAJ	03/2018

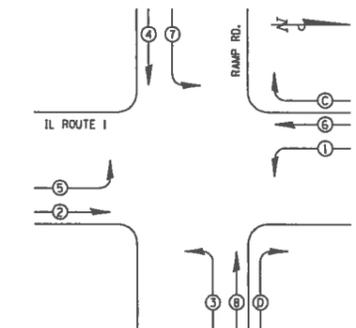
NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009
36
SHEET 36 OF 73

TRAFFIC SIGNAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	1.1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	58
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	60
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	233
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	151
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	990
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2390
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2600
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	610
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-4-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	14
WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. (SPECIAL)	EACH	1

*SEE TECHNICAL SPECIFICATIONS FOR SYSTEM GROUNDING INFORMATION.



TRAFFIC SIGNAL GENERAL NOTES

- THE ACTUAL LOCATIONS OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND THE TRAFFIC SIGNAL CONTROLLER WILL BE VERIFIED IN THE FIELD BY THE ENGINEER.
- POST MOUNTED SIGNAL HEADS SHALL BE INSTALLED SUCH THAT NO PART OF THE SIGNAL HEAD IS WITHIN TWO (2) FEET OF THE FACE OF CURB. MAST ARM POLES SHALL BE PLACED SUCH THAT A MINIMUM DISTANCE OF SIX (6) FEET IS MAINTAINED BETWEEN THE CENTER OF THE POLE AND THE FACE OF CURB ON THE MAST ARM SIDE.
- 12" LENSES SHALL BE USED ON ALL SIGNAL FACES. LED INDICATIONS SHALL BE USED ON ALL SIGNAL HEADS.
- ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 15-FOOT LUMINAIRE ARMS WITH A LUMINAIRE MOUNTING HEIGHT OF 40 FEET.
- THE LUMINAIRE ARM, LUMINAIRE POLE WIRING, AND LUMINAIRE SHALL BE ERECTED WITH THE TRAFFIC SIGNAL MAST ARM POLE. REFER TO THE ROADWAY LIGHTING PLANS FOR LUMINAIRE TYPE AND QUANTITY.
- MAST ARM FOUNDATIONS SHALL INCLUDE A SEPARATE 2" CONDUIT FOR THE ROADWAY LIGHTING AND LED INTERNALLY ILLUMINATED STREET NAME SIGN CABLE. THE ROADWAY LIGHTING AND ILLUMINATED SIGN CABLE AND THE TRAFFIC SIGNAL CABLE SHALL NOT SHARE THE SAME CONDUIT. REFER TO THE ROADWAY LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT DEPTHS GREATER THAN 2 FEET.
- A 1/4" CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES, FOUNDATIONS, AND CONTROLLERS. A MINIMUM OF 2 FEET OF ROPE SHALL BE PROVIDED AT EACH END OF A CONDUIT RUN. THE ROPE SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONDUIT PAY ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS AND SHALL CONTACT THE UTILITY COMPANY AND THE VILLAGE OF TILTON PRIOR TO COMMENCEMENT OF WORK FOR THE REQUIREMENTS FOR THE SERVICE INSTALLATION.
- CONTROLLER PROGRAMMING OF SIGNAL TIMING WILL BE PROVIDED BY THE VILLAGE OF TILTON.
- THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE ORIENTED SUCH THAT INTERSECTION OPERATION AND CONTROLLER COMPONENTS CAN BE VIEWED SIMULTANEOUSLY.
- ALL NECESSARY CONNECTIONS FOR PROPER OPERATION OF THE LED INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE INCLUDED IN THE COST OF THE LED INTERNALLY ILLUMINATED STREET NAME SIGNS. THE ELECTRIC CABLE WILL BE PAID FOR SEPARATELY. REFER TO THE ROADWAY LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE LED INTERNALLY ILLUMINATED STREET NAME SIGNS AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL SUBMIT THE NECESSARY SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING OF MATERIALS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE LED INTERNALLY ILLUMINATED STREET NAME SIGNS.
- ALL NECESSARY CONNECTIONS FOR PROPER OPERATION OF THE WIDE AREA VIDEO DETECTION SYSTEM AND ALL COAXIAL CABLE SHALL BE INCLUDED IN THE COST OF THE WIDE AREA VIDEO DETECTION SYSTEM COMPLETE. THE COAXIAL CABLE SHALL BE A CONTINUOUS UNBROKEN RUN FROM THE VIDEO CAMERA TO THE VIDEO DETECTION PROCESSOR. SPLICES IN THE COAXIAL CABLE SHALL NOT BE ALLOWED. THE 3C POWER CABLE WILL BE PAID FOR SEPARATELY.
- DISTURBED AREAS AROUND PROPOSED CONCRETE FOUNDATIONS SHALL BE BACKFILLED WITH CONTROLLED LOW-STRENGTH MATERIAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONCRETE FOUNDATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PHASE DESIGNATION DIAGRAM

PHASE DESIGNATION DIAGRAM LEGEND

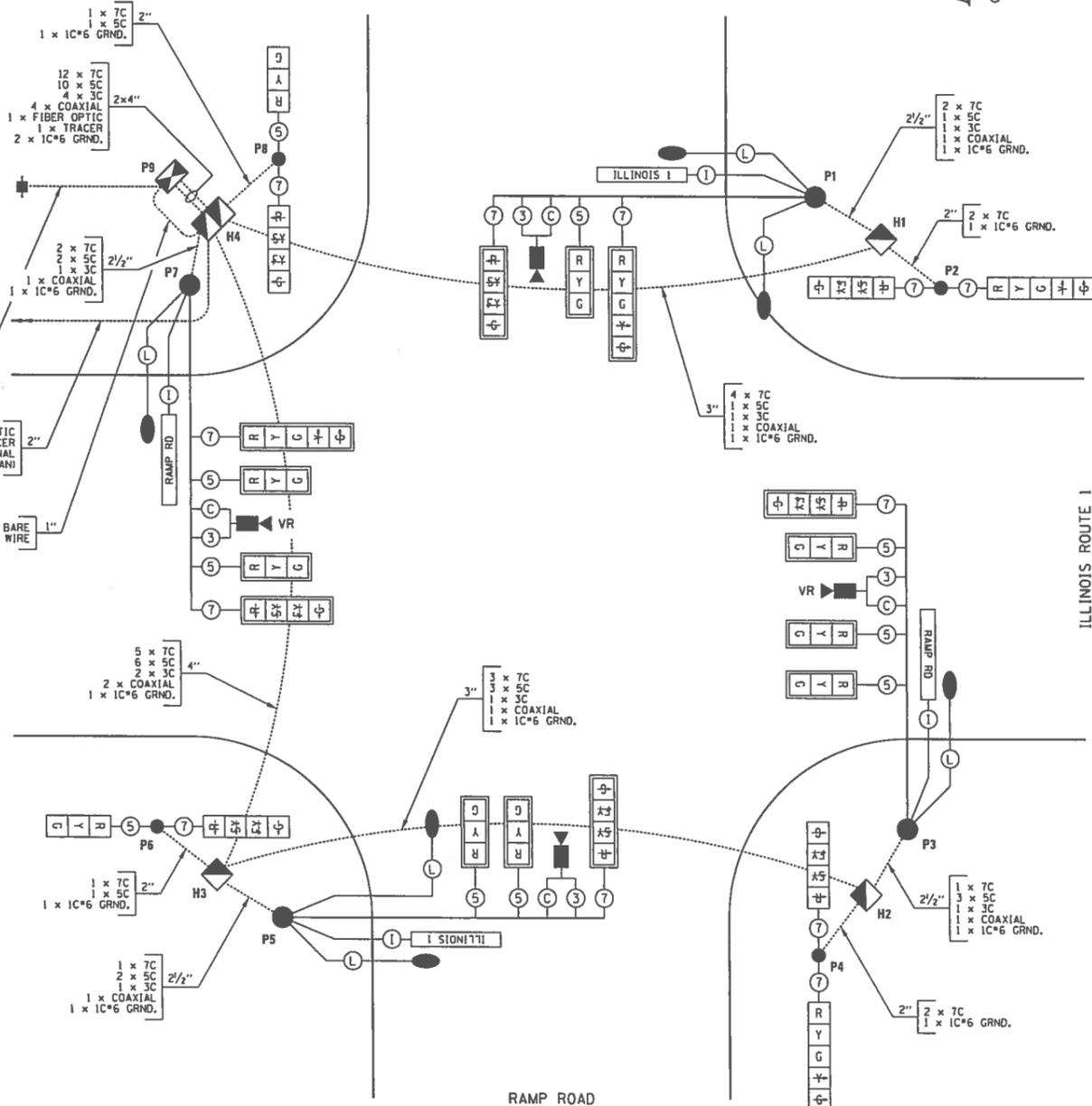
- ⊕ DUAL ENTRY PHASE
- ⊙ RIGHT TURN OVERLAP = 6 + 7
- ⊙ RIGHT TURN OVERLAP = 8 + 1
- # NUMBER REFERS TO ASSOCIATED PHASE

** INCLUDED IN THE COST OF SERVICE INSTALLATION, TYPE A (MODIFIED)

** 1 x 1C*6 BARE GROUND WIRE

** 3 x 1C*3 SERV.

1 x FIBER OPTIC 1 x TRACER (SEE TRAFFIC SIGNAL INTERCONNECT PLAN)



Clark Dietz

DESIGN FIRM REGISTRATION No. 184-000450
128 WEST CHURCH STREET CHAMPAIGN, IL 61820
PHONE: 217.373.8000 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL CABLE DIAGRAM - RAMP ROAD
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

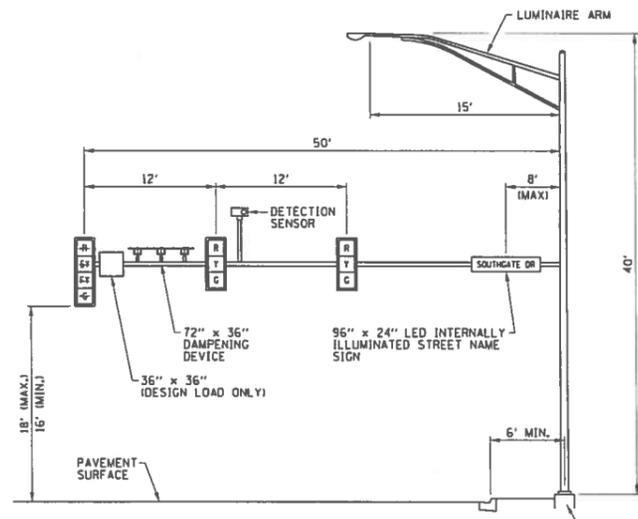
DESIGNED BY: JAJ
DATE: 03/2018
DRAWN BY: JAJ
DATE: 03/2018
CHECKED BY: SMW
DATE: 03/2018
APPROVED BY: JAJ
DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

PROJECT NO
14TIL009

37

SHEET 37 OF 73

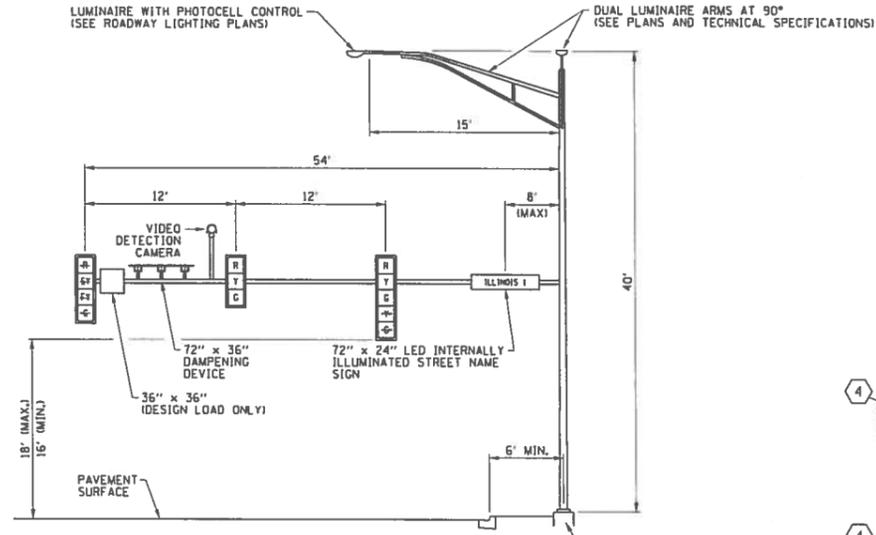


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE
SOUTHWEST QUADRANT (LOOKING SOUTH)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P7
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 15'

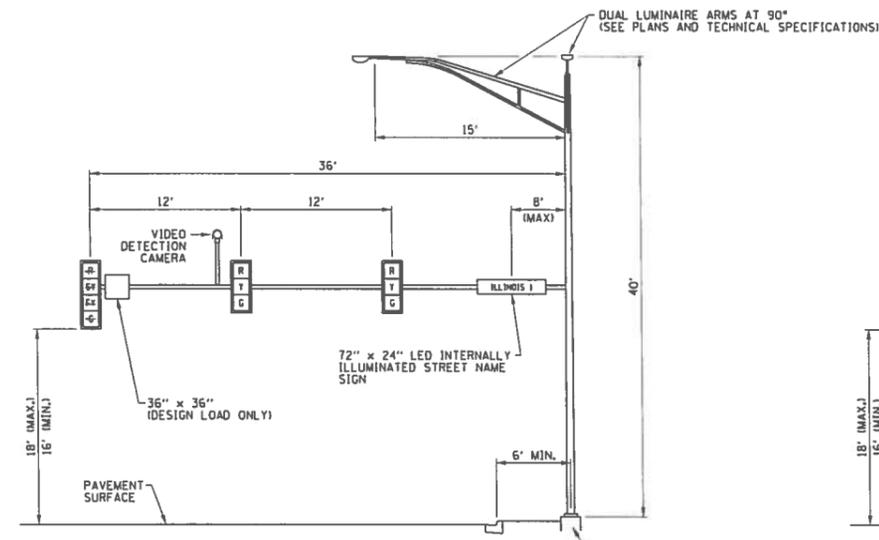


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE
NORTHWEST QUADRANT (LOOKING WEST)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P10
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 15'

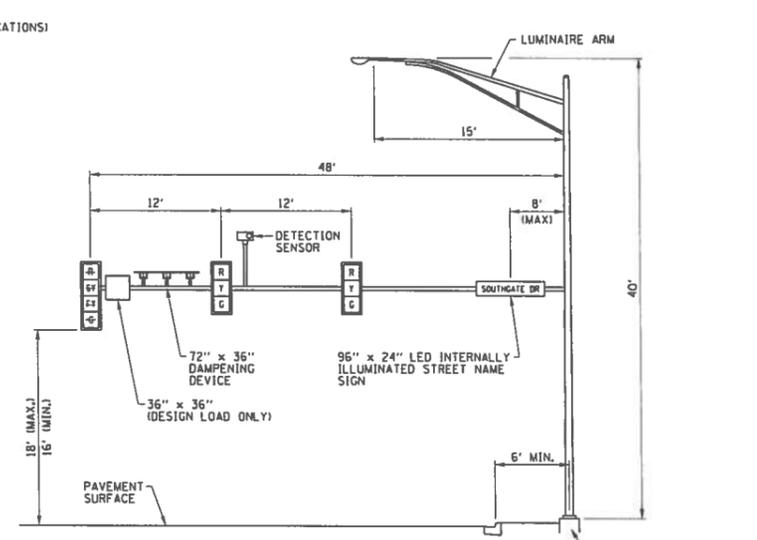


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE
SOUTHEAST QUADRANT (LOOKING EAST)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P4
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 11'

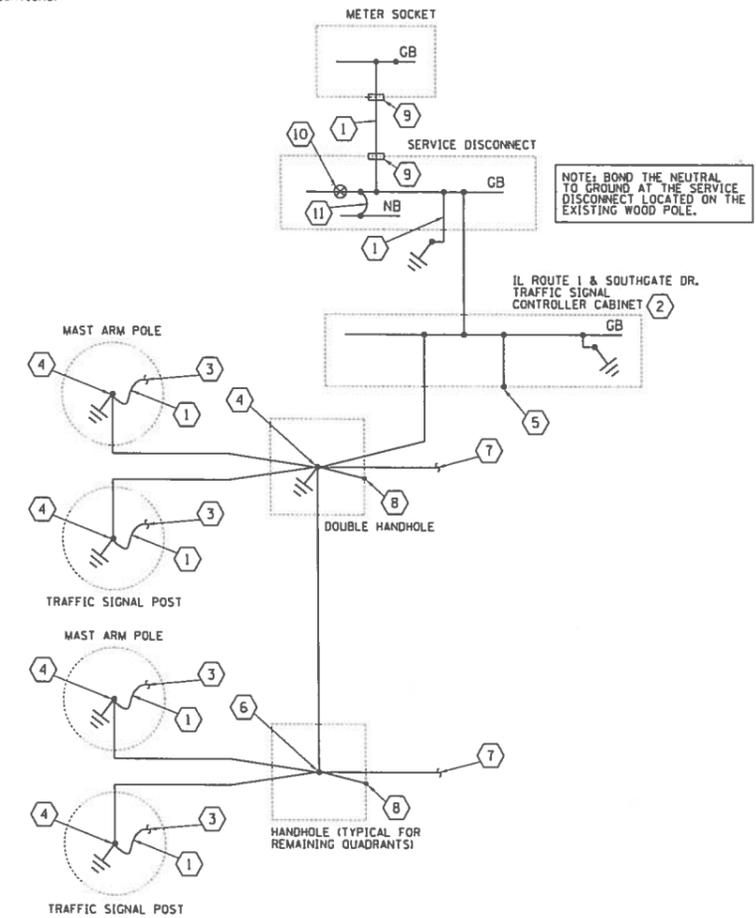


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE
NORTHEAST QUADRANT (LOOKING NORTH)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P1
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 13'



- 1 NO. 6 AWG BARE, SOLID COPPER GROUNDING ELECTRODE CONDUCTOR.
 - 2 ISOLATE NEUTRAL FROM GROUND, DO NOT BOND NEUTRAL.
 - 3 BOND TO GROUND LUG IN POLE/POST.
 - 4 EXOTHERMICALLY WELD CONDUCTORS TO GROUND ROD. ANY SPLICES SHALL BE BY IRREVERSIBLE HYDRAULIC COMPRESSION SPLICES.
 - 5 BOND ENCLOSURE TO GROUND.
 - 6 SPLICE CONDUCTORS USING IRREVERSIBLE HYDRAULIC COMPRESSION SPLICES.
 - 7 EXTEND TO HANDHOLES IN OTHER QUADRANTS AS REQUIRED.
 - 8 BOND HANDHOLE COVER AND FRAME TO GROUND.
 - 9 GROUNDING BUSHING BONDED TO GROUNDING ELECTRODE CONDUCTOR.
 - 10 BONDING SCREW TO BOND GROUND BUS TO EQUIPMENT ENCLOSURE.
 - 11 COPPER SYSTEM BONDING JUMPER.
- GB GROUND BUS
NB NEUTRAL BUS
⏏ GROUND ROD

TRAFFIC SIGNAL GROUNDING DIAGRAM

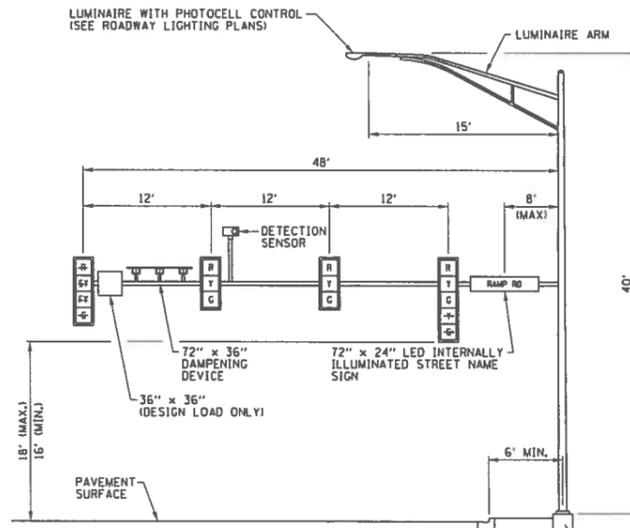
ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE
ALL WIRES SHALL BE NO. 6 AWG STRANDED COPPER CONDUCTORS WITH XLP INSULATION UNLESS OTHERWISE INDICATED. THE INSULATION COLOR SHALL BE GREEN.

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL DETAILS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DESIGNED BY: JAJ	DATE: 03/2018	DRAWN BY: JAJ	DATE: 03/2018	CHECKED BY: SWW	DATE: 03/2018	APPROVED BY: JAJ	DATE: 03/2018
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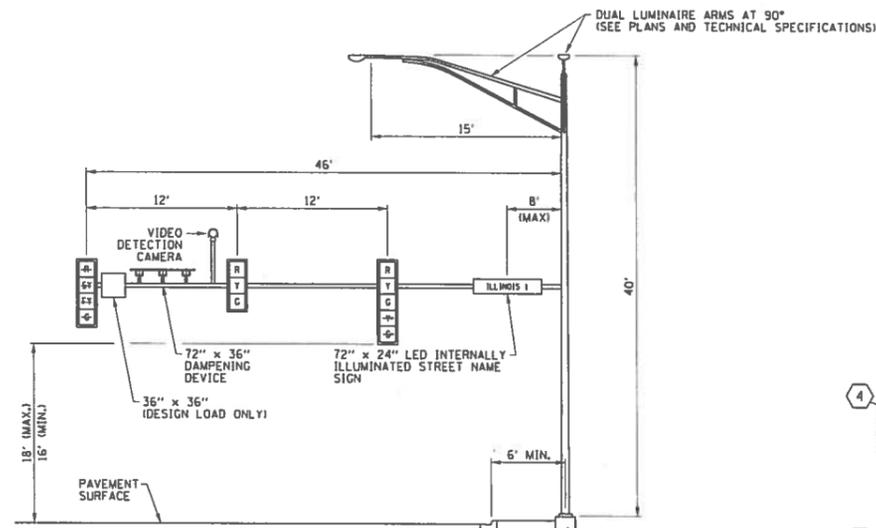


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD
SOUTHWEST QUADRANT (LOOKING SOUTH)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P7
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 13'

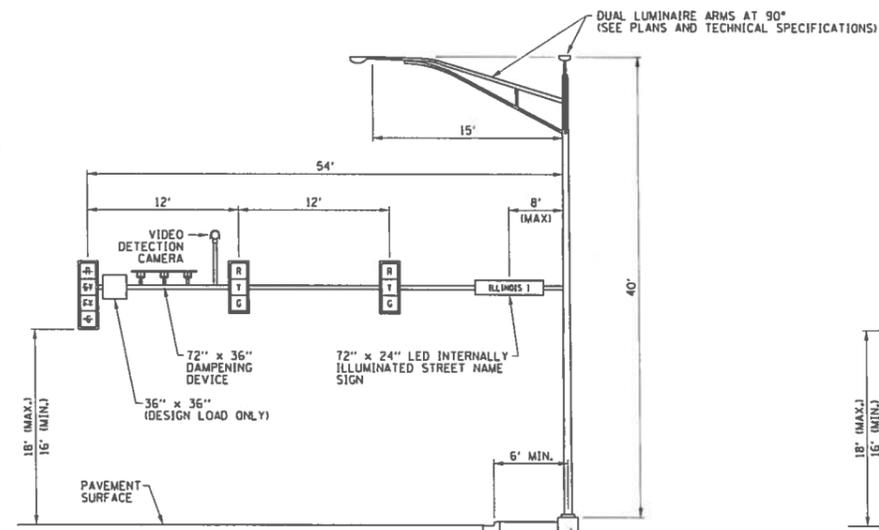


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD
NORTHWEST QUADRANT (LOOKING WEST)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P1
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 13'

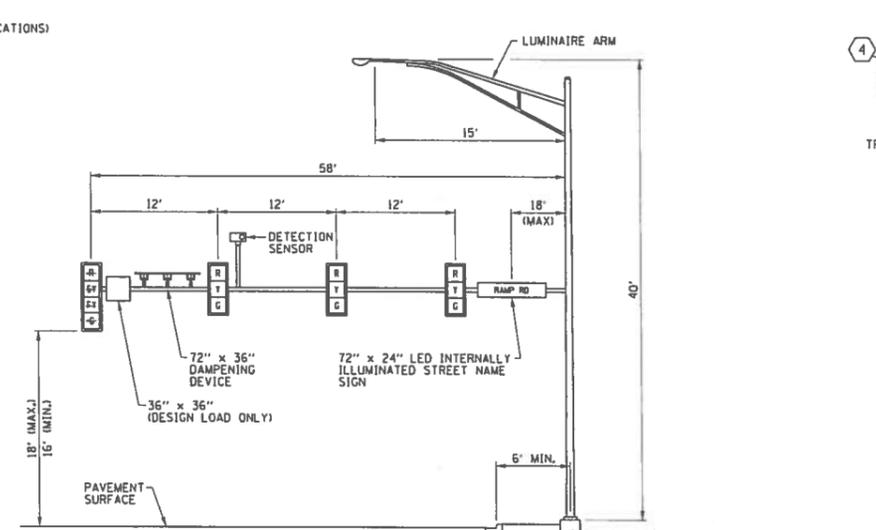


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD
SOUTHEAST QUADRANT (LOOKING EAST)

SEE STANDARD 877011 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P5
TYPE E FOUNDATION
DIAMETER = 36"
DEPTH BELOW FINISHED
GRADE LINE = 15'

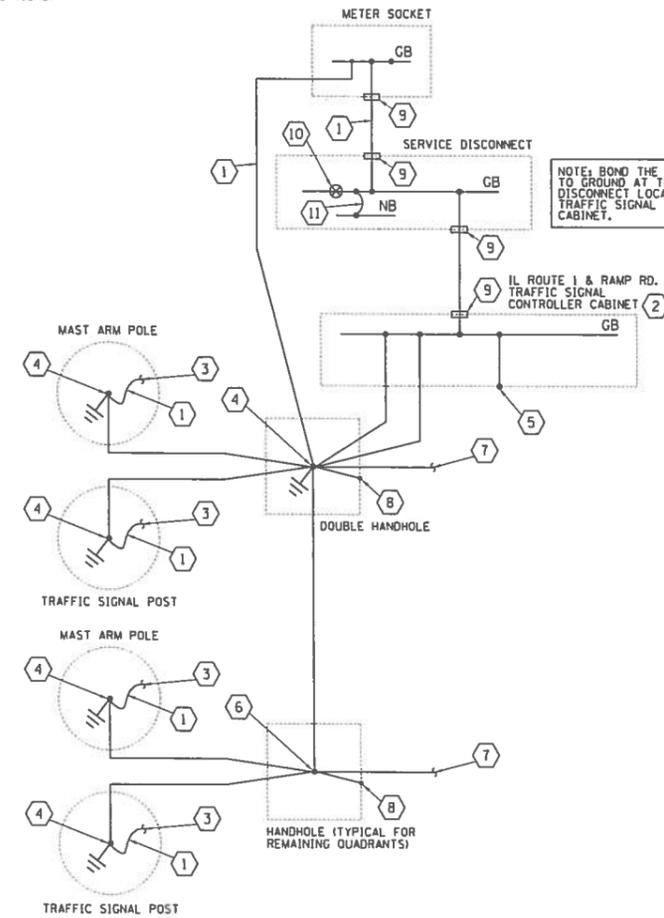


MAST ARM LOADING DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD
NORTHEAST QUADRANT (LOOKING NORTH)

SEE STANDARD 877012 FOR ADDITIONAL MAST ARM DESIGN LOADING REQUIREMENTS

P3
TYPE E FOUNDATION
DIAMETER = 42"
DEPTH BELOW FINISHED
GRADE LINE = 21'



- 1 NO. 6 AWG BARE, SOLID COPPER GROUNDING ELECTRODE CONDUCTOR.
 - 2 ISOLATE NEUTRAL FROM GROUND. DO NOT BOND NEUTRAL.
 - 3 BOND TO GROUND LUG IN POLE/POST.
 - 4 EXOTHERMICALLY WELD CONDUCTORS TO GROUND ROD, ANY SPLICES SHALL BE BY IRREVERSIBLE HYDRAULIC COMPRESSION SPLICES.
 - 5 BOND ENCLOSURE TO GROUND.
 - 6 SPLICE CONDUCTORS USING IRREVERSIBLE HYDRAULIC COMPRESSION SPLICES.
 - 7 EXTEND TO HANDHOLES IN OTHER QUADRANTS AS REQUIRED.
 - 8 BOND HANDHOLE COVER AND FRAME TO GROUND.
 - 9 GROUNDING BUSHING BONDED TO GROUNDING ELECTRODE CONDUCTOR.
 - 10 BONDING SCREW TO BOND GROUND BUS TO EQUIPMENT ENCLOSURE.
 - 11 COPPER SYSTEM BONDING JUMPER.
- GB GROUND BUS
NB NEUTRAL BUS
⊕ GROUND ROD

TRAFFIC SIGNAL GROUNDING DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD
ALL WIRES SHALL BE NO. 6 AWG STRANDED COPPER CONDUCTORS WITH XLP INSULATION UNLESS OTHERWISE INDICATED. THE INSULATION COLOR SHALL BE GREEN.

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL DETAILS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ	DATE: 03/2018
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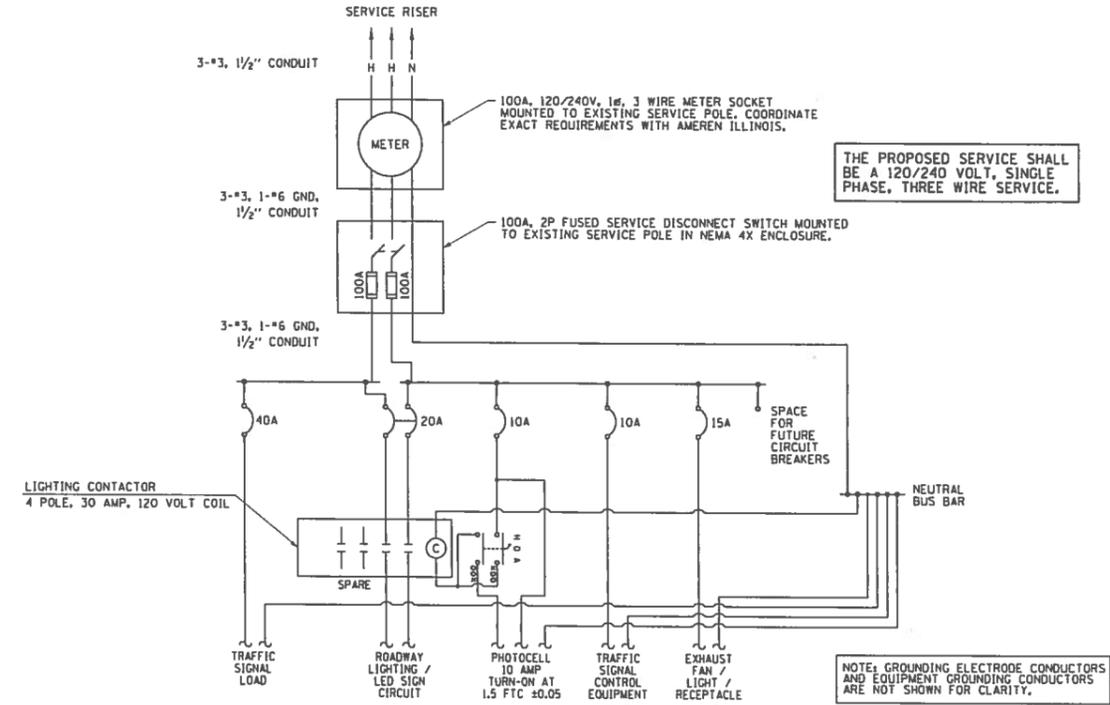
NO.	DATE	DESCRIPTION

PROJECT NO
14TIL009

PANELBOARD TRAFFIC SIGNAL		MAIN		M.L.D.		LOCATION: 3021+48.9, 66.2' LT.			
VOLTAGE 120/240		BUS RATING 100 AMPS							
PHASE/WIRE 1PH/3W		MOUNTING INTERIOR ONLY							
DESCRIPTION	CKT. NO.	LOAD (VA)	AMPS/POLES	CKT. BKR.	CKT. POLES	AMPS/POLES	LOAD (VA)	CKT. NO.	DESCRIPTION
TRAFFIC SIGNAL LOAD	1	3500	40/1			10/1	300	2	PHOTOCELL
TRAFFIC SIGNAL CONTROL EQUIPMENT	3	800	10/1			15/1	500	4	FAN / LIGHT / RECEPTACLE
ROADWAY LIGHTING / LED SIGN CIRCUIT	5	575	20/2			0	0	6	SPACE
	7	575				0	0	8	SPACE
SUBTOTAL "A"		4075					300		
SUBTOTAL "B"							500		
TOTAL VOLT-AMPERES A & B:		6250 VA							

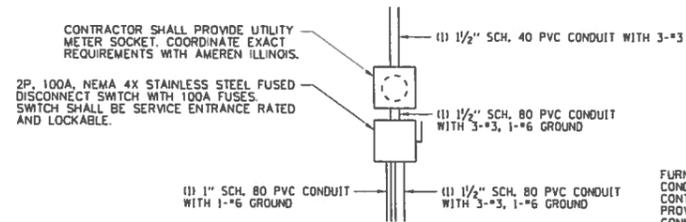
TRAFFIC SIGNAL CONTROLLER PANELBOARD SCHEDULE

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE



TRAFFIC SIGNAL CONTROLLER INSTALLATION DIAGRAM

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE



SERVICE DETAIL

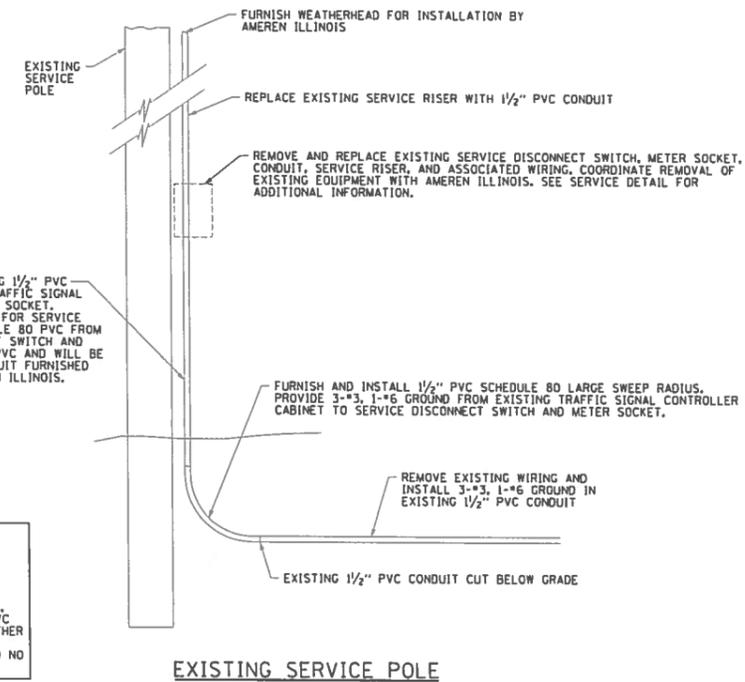
FURNISH AND INSTALL 1/2" PVC CONDUIT TO CONNECT TO EXISTING 1/2" PVC CONDUIT BELOW GRADE. PROVIDE 3-#3, 1-#6 GROUND FROM NEW TRAFFIC SIGNAL CONTROLLER CABINET TO SERVICE DISCONNECT SWITCH AND METER SOCKET. PROVIDE 3-#3 FROM METER SOCKET TO WEATHERHEAD PLUS SLACK FOR SERVICE CONNECTION BY AMEREN ILLINOIS. THE CONDUIT SHALL BE SCHEDULE 80 PVC FROM THE EXISTING CONDUIT BELOW GRADE TO THE SERVICE DISCONNECT SWITCH AND METER SOCKET. THE REMAINING CONDUIT SHALL BE SCHEDULE 40 PVC AND WILL BE INSTALLED BY AMEREN ILLINOIS. THE LENGTHS OF WIRE AND CONDUIT FURNISHED SHALL BE SUFFICIENT TO REACH THE HEIGHT REQUIRED BY AMEREN ILLINOIS.

NOTES:

1. THE ENTIRE SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH AMEREN ILLINOIS REQUIREMENTS, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND ALL STATE AND LOCAL CODES OR REQUIREMENTS.
2. REMOVING THE EXISTING SERVICE INSTALLATION AND FURNISHING AND INSTALLING THE METER SOCKET, SERVICE DISCONNECT SWITCH, 1/2" SCH. 80 PVC CONDUIT, 1/2" SCH. 40 PVC CONDUIT, 1" SCH. 80 PVC CONDUIT, WEATHERHEAD, #3 AWG ELECTRIC CABLE, #6 AWG BARE SOLID COPPER GROUND WIRE, AND OTHER MATERIALS REQUIRED BY AMEREN ILLINOIS FOR THE SERVICE INSTALLATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF MODIFY EXISTING SERVICE INSTALLATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MODIFY EXISTING SERVICE INSTALLATION DETAIL

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE



TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL DETAILS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ	DATE: 03/2018	DRAWN BY: JAJ	DATE: 03/2018	CHECKED BY: SMW	DATE: 03/2018	APPROVED BY: JAJ	DATE: 03/2018
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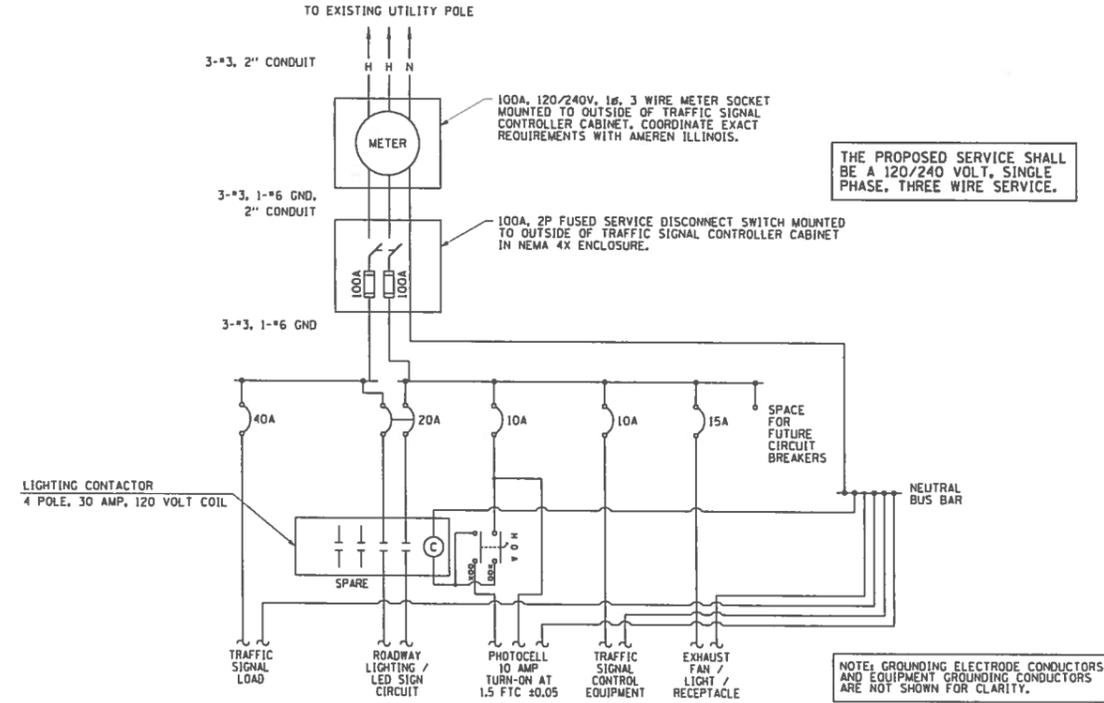
40

SHEET 40 OF 73

PANELBOARD TRAFFIC SIGNAL		MAIN M.L.D.		LOCATION: 3032+80.5, 66.2' LT.				
VOLTAGE 120/240		BUS RATING 100 AMPS						
PHASE/WIRE 1PH/3W		MOUNTING INTERIOR ONLY						
DESCRIPTION	CKT. NO.	LOAD (VA)	AMPS/POLES	CKT. BKR.	AMPS/POLES	LOAD (VA)	CKT. NO.	DESCRIPTION
TRAFFIC SIGNAL LOAD	1	3500	40/1		10/1	300	2	PHOTOCELL
TRAFFIC SIGNAL CONTROL EQUIPMENT	3	800	10/1		15/1	500	4	FAN / LIGHT / RECEPTACLE
ROADWAY LIGHTING / LED SIGN CIRCUIT	5	575	20/2		0	0	6	SPACE
	7	575			0	0	8	SPACE
SUBTOTAL "A"		4075				300		
SUBTOTAL "B"						500		
TOTAL VOLT-AMPERES A & B:		6250 VA						

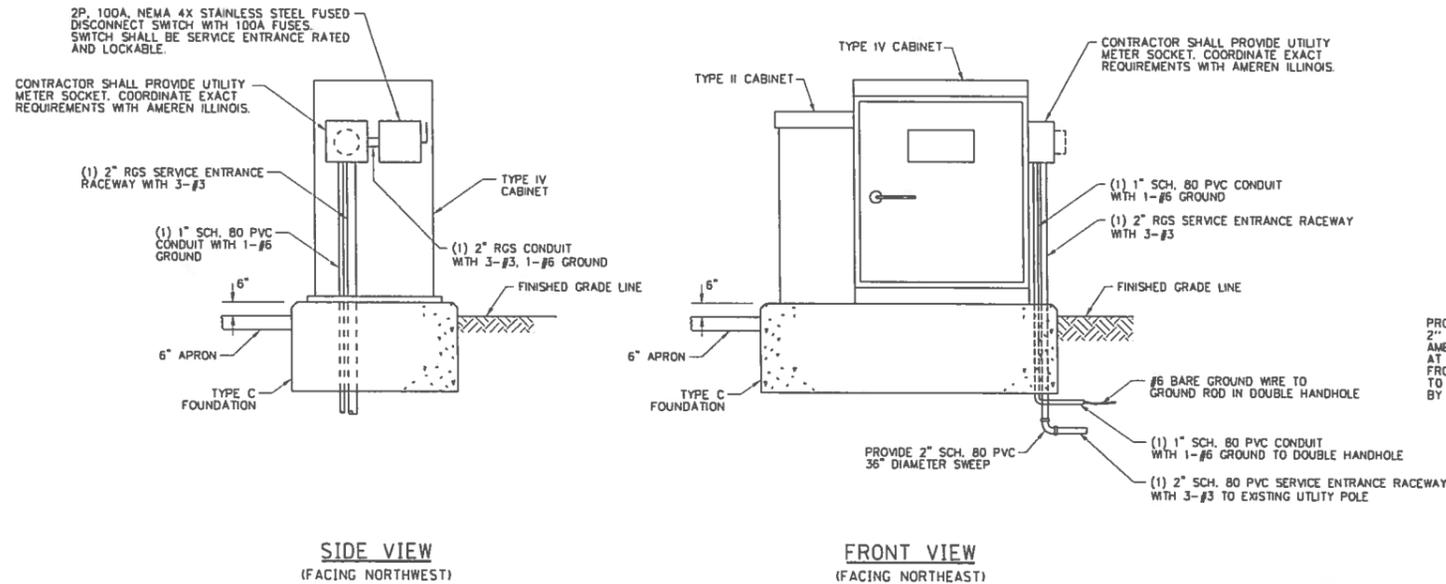
TRAFFIC SIGNAL CONTROLLER PANELBOARD SCHEDULE

ILLINOIS ROUTE 1 AND RAMP ROAD



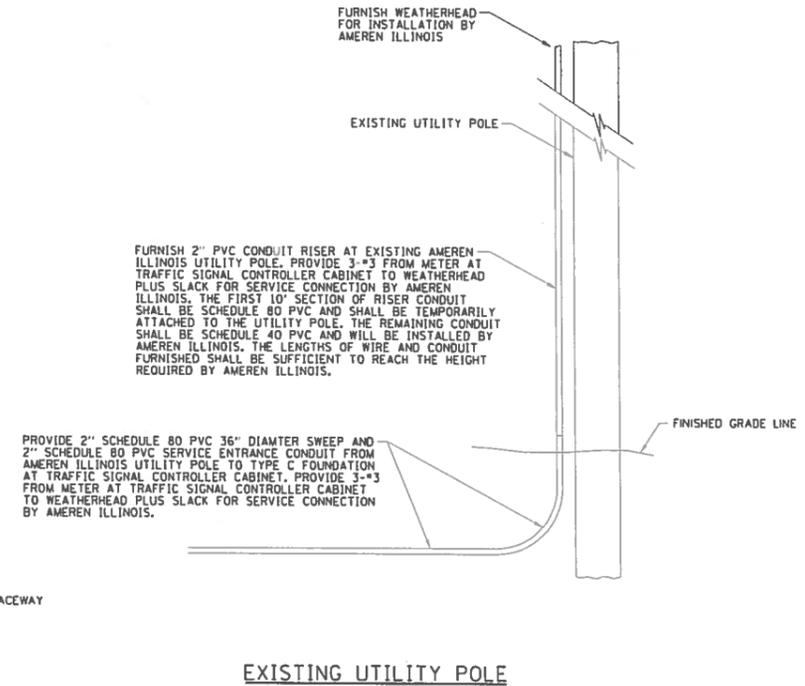
TRAFFIC SIGNAL CONTROLLER INSTALLATION DIAGRAM

ILLINOIS ROUTE 1 AND RAMP ROAD



SERVICE INSTALLATION, TYPE A (MODIFIED) DETAIL

ILLINOIS ROUTE 1 AND RAMP ROAD



- NOTES:
- THE ENTIRE SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH AMEREN ILLINOIS REQUIREMENTS, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND ALL STATE AND LOCAL CODES OR REQUIREMENTS.
 - FURNISHING AND INSTALLING THE METER SOCKET, DISCONNECT SWITCH, 2" RGS CONDUIT, 2" SCH. 80 PVC CONDUIT, 2" SCH. 40 PVC CONDUIT, 1" SCH. 80 PVC CONDUIT, WEATHERHEAD, #3 ANG ELECTRIC CABLE, #6 AWG BARE SOLID COPPER GROUND WIRE, AND OTHER MATERIALS REQUIRED BY AMEREN ILLINOIS FOR THE SERVICE INSTALLATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF SERVICE INSTALLATION, TYPE A (MODIFIED), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ClarkDietz

DESIGN FIRM REGISTRATION
No. 184-000450
126 WEST CHARLICK STREET
CHAMPAIGN, IL 61820
PHONE: 317.373.8900 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL DETAILS

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

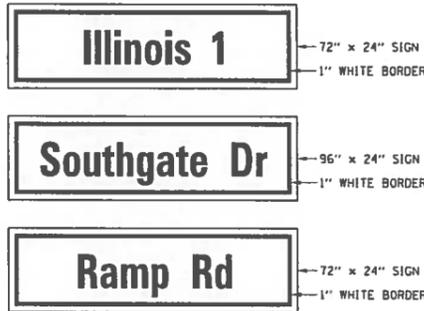
DESIGNED BY: JAJ	DATE: 03/2018	DRAWN BY: JAJ	DATE: 03/2018	CHECKED BY: SWW	DATE: 03/2018	APPROVED BY: JAJ	DATE: 03/2018
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NO.	DATE	BY	DESCRIPTION

PROJECT NO
14TL009

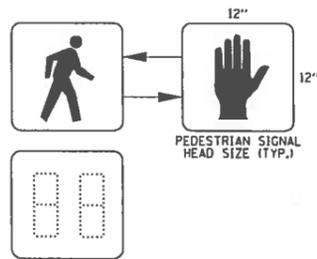
41

SHEET 41 OF 73



LED INTERNALLY ILLUMINATED STREET NAME SIGN FACE DETAILS

NOTES:
 1. WHITE LETTERING AND BORDER ON GREEN BACKGROUND. SIGN LETTERING SHALL BE SERIES D, 12" UPPERCASE AND 9" LOWERCASE. SIGN BORDER SHALL BE 1" WIDE.



PEDESTRIAN COUNTDOWN SIGNAL DISPLAY DETAIL

ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE

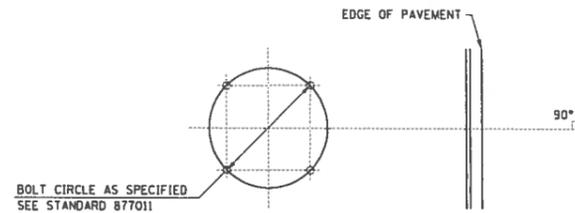


MUTCD R10-3

THE PEDESTRIAN PUSH-BUTTON SIGN AND ALL MOUNTING HARDWARE SHALL BE INCLUDED IN THE COST OF THE PEDESTRIAN PUSH-BUTTON.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL

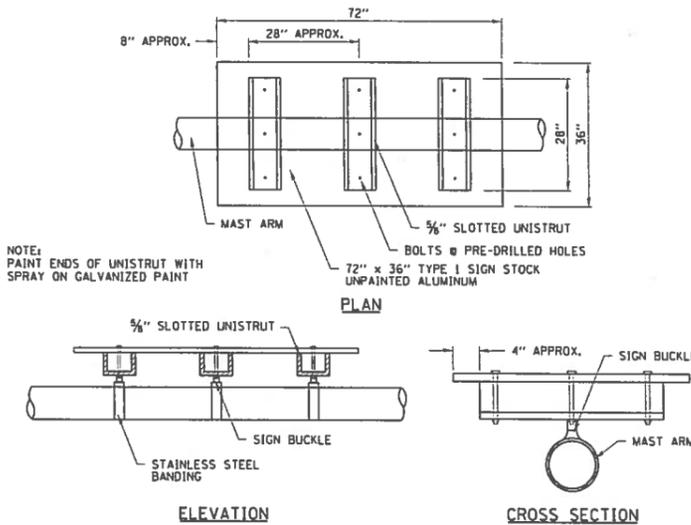
ILLINOIS ROUTE 1 AND SOUTHGATE DRIVE



BOLT CIRCLE AS SPECIFIED SEE STANDARD 877011

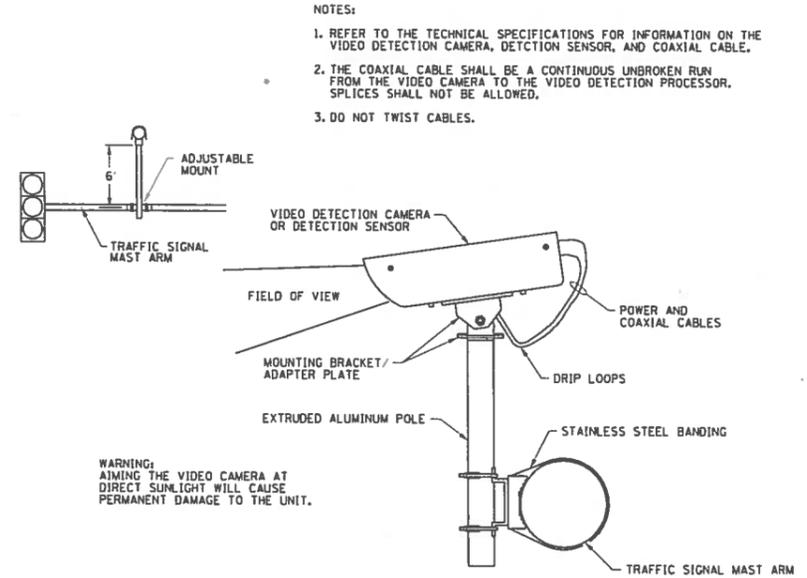
NOTE: ORIENTATION OF ANCHOR BOLTS TO BE FIELD VERIFIED

MAST ARM FOUNDATION BOLT PATTERN DETAIL



NOTE: PAINT ENDS OF UNISTRUT WITH SPRAY ON GALVANIZED PAINT

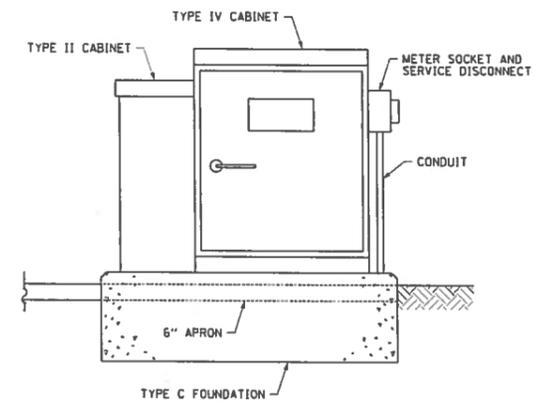
MAST ARM MOUNTED DAMPENING DEVICE DETAIL



NOTES:
 1. REFER TO THE TECHNICAL SPECIFICATIONS FOR INFORMATION ON THE VIDEO DETECTION CAMERA, DETECTION SENSOR, AND COAXIAL CABLE.
 2. THE COAXIAL CABLE SHALL BE A CONTINUOUS UNBROKEN RUN FROM THE VIDEO CAMERA TO THE VIDEO DETECTION PROCESSOR. SPLICES SHALL NOT BE ALLOWED.
 3. DO NOT TWIST CABLES.

WARNING:
 AIMING THE VIDEO CAMERA AT DIRECT SUNLIGHT WILL CAUSE PERMANENT DAMAGE TO THE UNIT.

VIDEO DETECTION CAMERA/DETECTION SENSOR MOUNTING DETAIL



UPS BATTERY CABINET MOUNTING DETAIL

ILLINOIS ROUTE 1 AND RAMP ROAD

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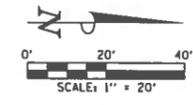
DESIGN FIRM REGISTRATION
 No. 18-000450
 125 WEST CAROLINA STREET
 CHAMPAIGN, IL 61820
 www.clarkdietz.com
 PHONE: 217.373.8900

TRAFFIC SIGNAL PLANS
 TRAFFIC SIGNAL DETAILS
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

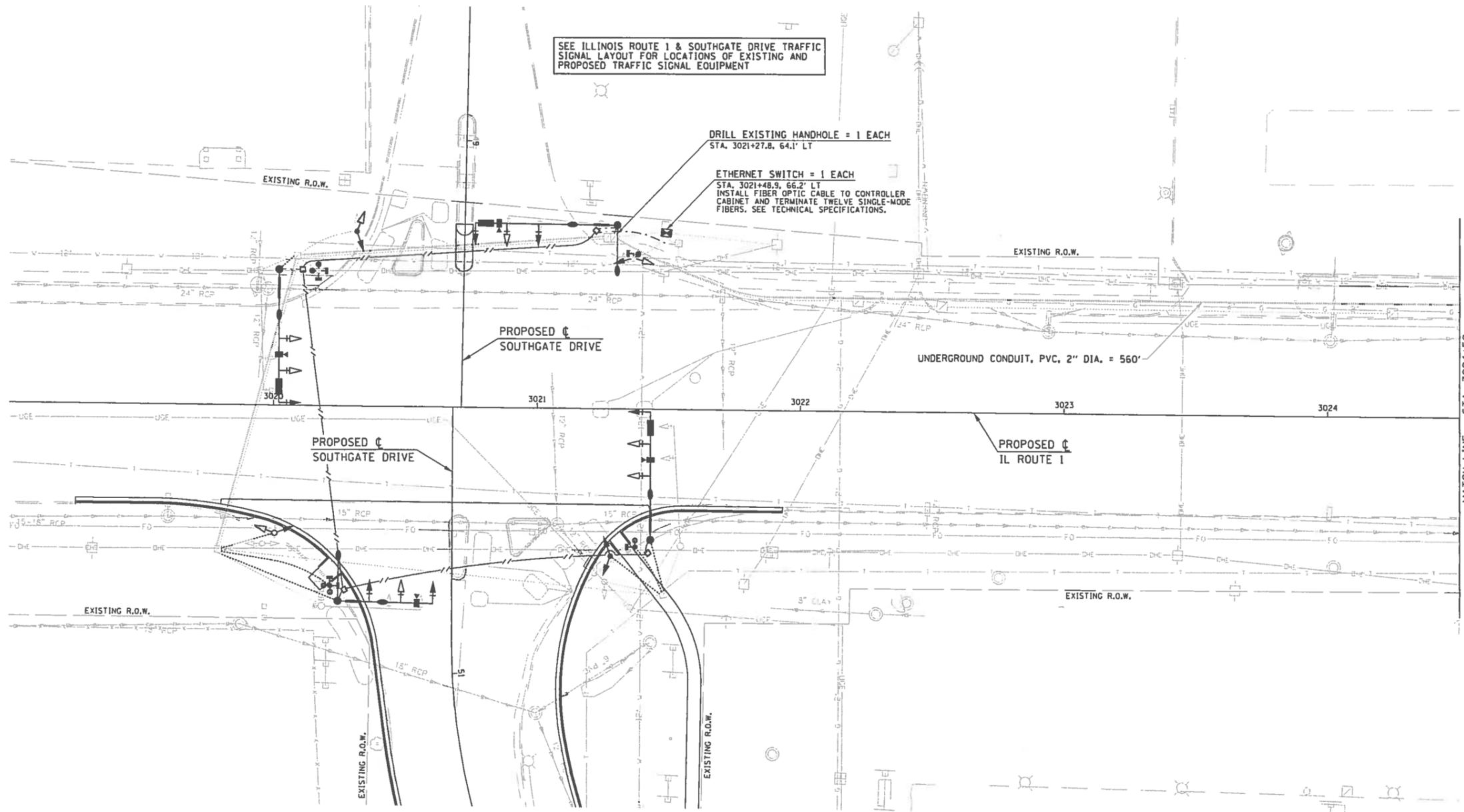
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 DESIGN FIRM REGISTRATION
 No. 194-000450
 124 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.273.8800 www.clarkdietz.com



SEE ILLINOIS ROUTE 1 & SOUTHGATE DRIVE TRAFFIC SIGNAL LAYOUT FOR LOCATIONS OF EXISTING AND PROPOSED TRAFFIC SIGNAL EQUIPMENT

DRILL EXISTING HANDHOLE = 1 EACH
 STA. 3021+27.8, 64.1' LT

ETHERNET SWITCH = 1 EACH
 STA. 3021+48.9, 66.2' LT
 INSTALL FIBER OPTIC CABLE TO CONTROLLER CABINET AND TERMINATE TWELVE SINGLE-MODE FIBERS. SEE TECHNICAL SPECIFICATIONS.

INTERCONNECT PLAN BILL OF MATERIALS

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1180
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
ETHERNET SWITCH	EACH	2
FIBER OPTIC CABLE IN CONDUIT, 12 FIBERS, SINGLE MODE	FOOT	1300

INTERCONNECT PLAN GENERAL NOTES

- THE PROPOSED FIBER OPTIC CABLE SHALL BE INSTALLED ON ILLINOIS ROUTE 1 BETWEEN THE EXISTING TRAFFIC SIGNAL CONTROLLER AT SOUTHGATE DRIVE AND THE PROPOSED TRAFFIC SIGNAL CONTROLLER AT RAMP ROAD.
- THE PROPOSED FIBER OPTIC CABLE SHALL BE TERMINATED AT EACH TRAFFIC SIGNAL CONTROLLER. THE CABLE SHALL NOT BE SPLICED BETWEEN CONTROLLERS.
- A NO. 12 STRANDED COPPER WIRE SHALL BE INSTALLED IN THE SAME CONDUIT AS THE FIBER OPTIC CABLE FOR A TRACER CABLE. THE COPPER WIRE SHALL TERMINATE AT EACH HANDHOLE AND CONTROLLER CABINET. A TAG SHALL BE PLACED ON THE COPPER WIRE IN EACH HANDHOLE AND CONTROLLER CABINET WITH THE LEGEND "FIBER OPTIC TRACER CABLE". THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE FIBER OPTIC CABLE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- REFER TO THE TRAFFIC SIGNAL LAYOUT DRAWINGS AND THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

INTERCONNECT PLAN LEGEND

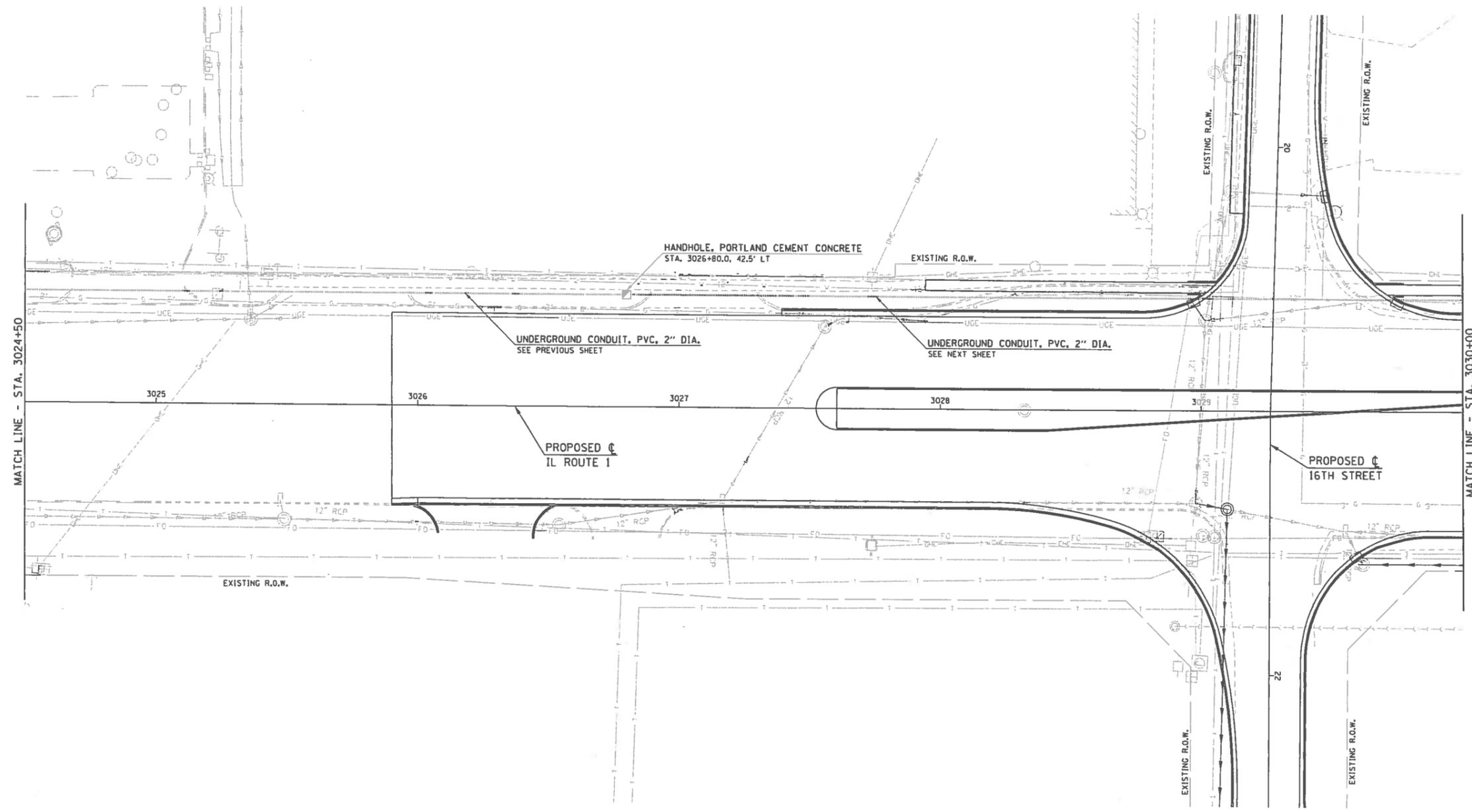
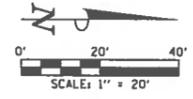
	PROPOSED	EXISTING
CONDUIT BORED AND PULLED	---	---
CONDUIT IN TRENCH	---	---
CONTROLLER CABINET	☒	☒
HANDHOLE, PCC	☒	☒
DOUBLE HANDHOLE, PCC	☒	☒

TRAFFIC SIGNAL PLANS
 TRAFFIC SIGNAL INTERCONNECT PLAN
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ
 DATE: 03/2018
 DRAWN BY: JAJ
 DATE: 03/2018
 CHECKED BY: SAW
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 APPROVED BY: JAJ
 DATE: 03/2018

NO.	DATE	DESCRIPTION

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 14TL009



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONDUIT BORED AND PULLED	---	---
CONDUIT IN TRENCH	---	---
CONTROLLER CABINET	☒	☒
HANDHOLE, PCC	☒	☒
DOUBLE HANDHOLE, PCC	☒	☒

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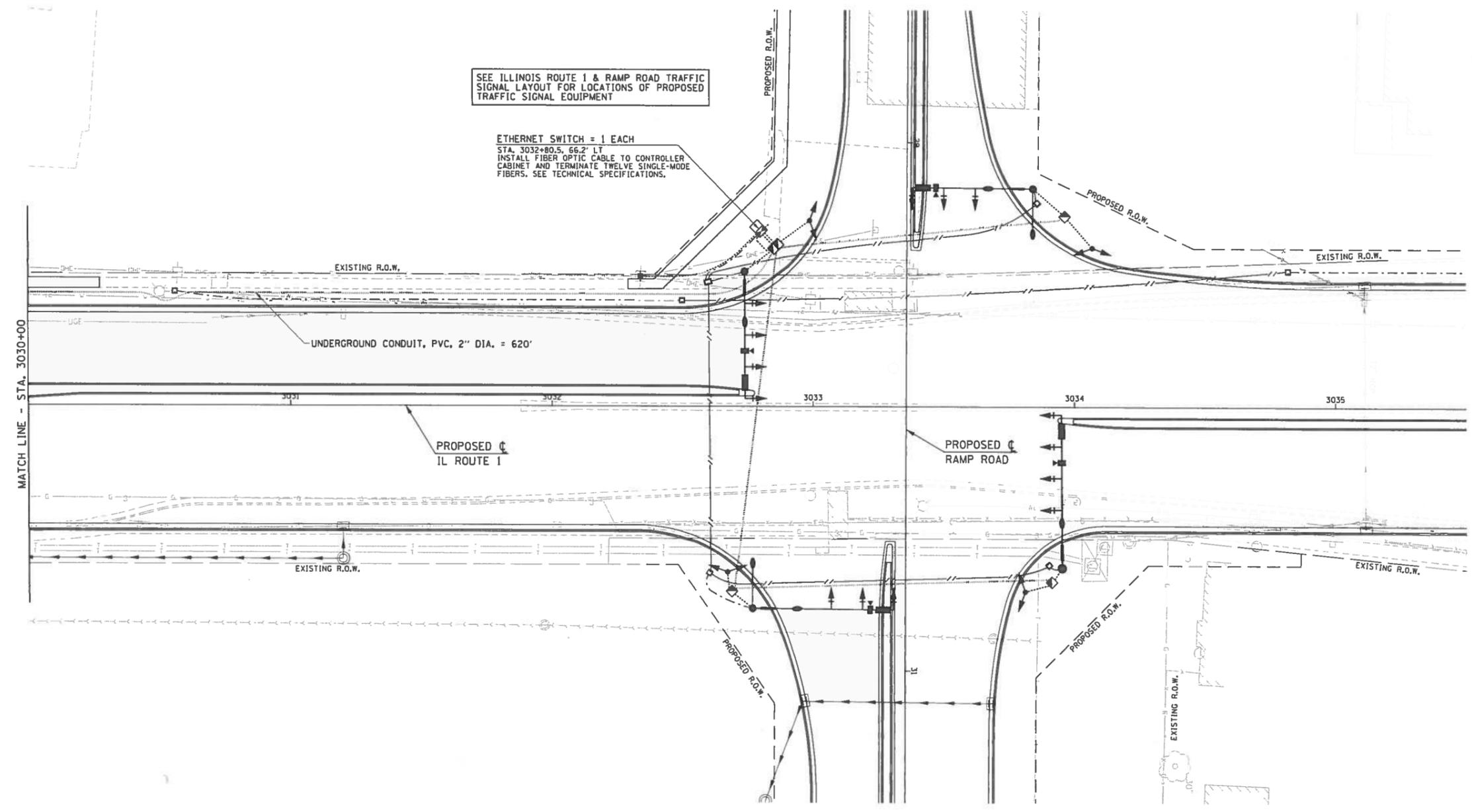
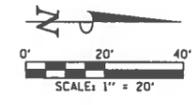
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**TRAFFIC SIGNAL SIGNAL PLANS
TRAFFIC SIGNAL INTERCONNECT PLAN
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS**

DESIGNED BY: JAJ DATE: 03/2018	DRAWN BY: JAJ DATE: 03/2018	CHECKED BY: SWW DATE: 03/2018	APPROVED BY: JAJ DATE: 03/2018
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NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONDUIT BORED AND PULLED		
CONDUIT IN TRENCH		
CONTROLLER CABINET		
HANDHOLE, PCC		
DOUBLE HANDHOLE, PCC		

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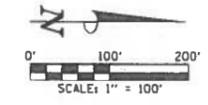
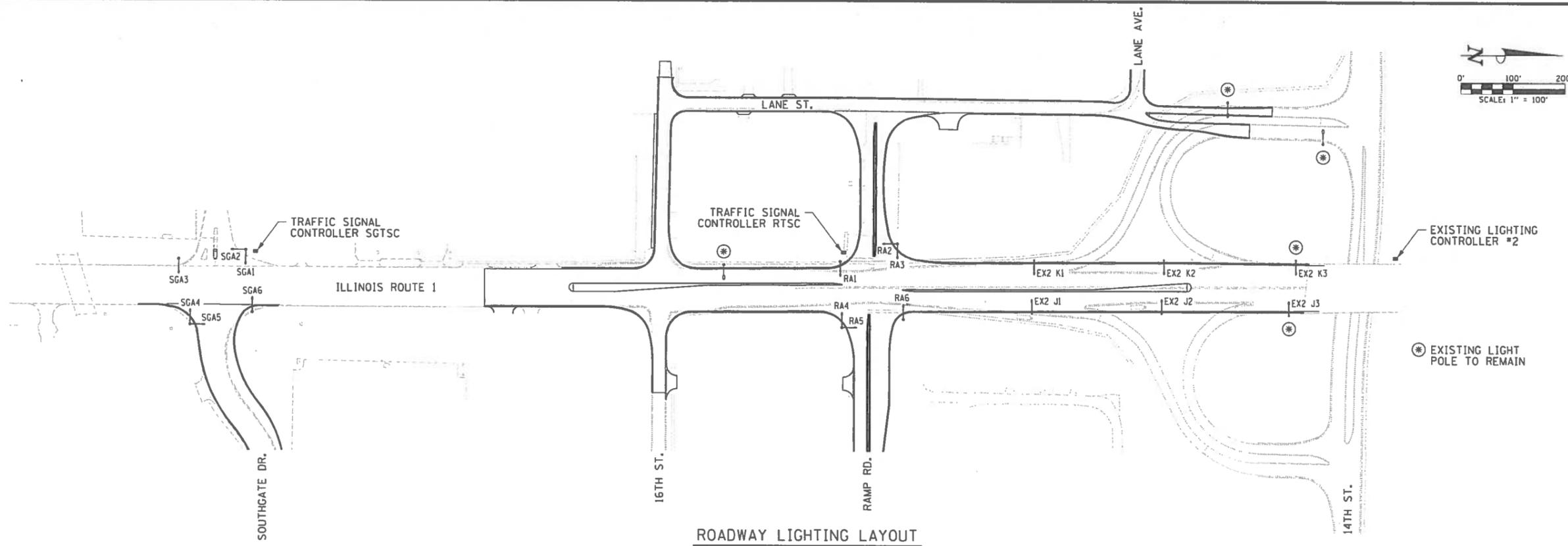
DESIGN FIRM REGISTRATION
 No. 184-000450
 124 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.373.8800 www.clarkdietz.com

TRAFFIC SIGNAL PLANS
TRAFFIC SIGNAL INTERCONNECT PLAN
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

DESIGNED BY: JAJ	DATE: 03/2018
DRAWN BY: JAJ	DATE: 03/2018
CHECKED BY: SAW	DATE: 03/2018
APPROVED BY: JAJ	DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
 14TIL009



ROADWAY LIGHTING GENERAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE, THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND ALL APPLICABLE LOCAL ORDINANCES.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR A COMPLETE AND WORKABLE SYSTEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND FOR PROVIDING ALL SUPERVISION, LABOR, MATERIAL, AND TOOLS FOR THE PROJECT.
- ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT LOCATIONS AND EQUIPMENT DIMENSIONS.
- ALL CONDUITS WITH WIRING SHALL BE PROVIDED WITH AN INSULATED COPPER GROUNDING CONDUCTOR SIZED AS NOTED ON PLANS AND IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE.
- ALL GROUNDING CONDUCTORS SHALL BE BONDED TOGETHER IN ALL HANDHOLES AND JUNCTION BOXES.
- ALL SERVICE LATERAL CONDUITS SHALL BE SCHEDULE 40 PVC EXCEPT ALL ELBOWS AND VERTICAL RISERS SHALL BE SCHEDULE 80 PVC. ALL ELBOWS SHALL BE LONG RADIUS TYPE. CONTRACTOR SHALL VERIFY AND COMPLY WITH ALL AMERICAN ILLINOIS REQUIREMENTS FOR THE SERVICE INSTALLATIONS.
- CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND INSTALLATION WITH ALL OTHER SITE WORK BEING PERFORMED. COORDINATE ALL POLE LOCATIONS WITH ENGINEER IN FIELD.
- PROVIDE PULLSTRING IN ALL CONDUITS, INCLUDING THOSE CONDUITS WITH CONDUCTORS INSTALLED. THE PULL STRING SHALL BE INCLUDED IN THE COST OF THE CONDUITS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL TAG ALL ELECTRICAL CONDUCTORS (PHASE CONDUCTORS, NEUTRALS, AND GROUNDS) WITH PERMANENT TAGS. EACH CONDUCTOR SHALL BE TAGGED IN ALL CONCRETE HANDHOLES, JUNCTION BOXES, AND POLE HANDHOLES. THE TAG SHALL INDICATE THE LIGHTING CONTROLLER AND CIRCUIT NUMBER FROM WHICH THE CONDUCTORS ORIGINATE.
- ALL CONDUITS SHALL BE 30" BELOW FINAL GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ALL UNDERGROUND UTILITIES DAMAGED DURING INSTALLATION OF ROADWAY LIGHTING SYSTEM.
- GROUND RODS SHALL BE 3/4" DIAMETER x 10'-0" LONG COPPER CLAD STEEL GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 SOLID COPPER AND SHALL BE EXOTHERMICALLY WELDED TO GROUNDING ELECTRODE. GROUND ROD SHALL BE INSTALLED ONLY AT CONCRETE POLE FOUNDATIONS AND LIGHTING CONTROLLER.
- POLE WIRING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE LUMINAIRE PER ARTICLE B21.03 OF THE STANDARD SPECIFICATIONS.
- WHERE EXISTING CONDUCTORS ARE TO BE ABANDONED IN PLACE, THE CONDUCTORS SHALL BE DISCONNECTED AND ISOLATED FROM EXISTING CONDUCTORS WHICH ARE TO REMAIN ENERGIZED.
- THE CONTRACTOR SHALL USE CARE IN CONSTRUCTING THE LIGHT POLES THAT ARE NEAR TRENCH EXCAVATIONS FOR STORM SEWERS AND OTHER UTILITIES. THE CONTROLLED LOW-STRENGTH MATERIAL SHALL BE BLOCKED OUT AT THE FOUNDATION LOCATIONS TO ALLOW FOR THEIR LATER CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- CONDUITS ARE INDICATED AS TRENCHED OR AUGERED FOR INFORMATION PURPOSES. ALL CONDUIT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR UNDERGROUND CONDUIT OF THE TYPE AND SIZE SPECIFIED.
- UNDERGROUND SPLICING OF ELECTRICAL CONDUCTORS SHALL NOT BE ALLOWED.

PHOTOMETRIC DATA SUMMARY

LUMINAIRE:	LUMINAIRE, LED, SPECIAL	PHILIPS LUMEC ROADFOCUS	LUMINAIRE INSTALLATION, TYPE 1	PHILIPS LUMEC ROADFOCUS	LUMINAIRE INSTALLATION, TYPE 2	PHILIPS LUMEC ROADFOCUS
LUMINAIRE DESCRIPTION:	GE EVOLVE LED ROADWAY	PHILIPS LUMEC ROADFOCUS	GE EVOLVE LED ROADWAY	PHILIPS LUMEC ROADFOCUS	GE EVOLVE LED ROADWAY	PHILIPS LUMEC ROADFOCUS
MANUFACTURER CATLOG NUMBER	ERL2 5 21C340 D GRAY AGILR	RFL 160W96LED4K G2 R3M UNV PH9 SP1 GY3	ERL2 0 21C340 D GRAY AGILR	RFL 160W96LED4K G2 R3M UNV PH9 SP1 GY3	ERL2 0 21C340 E GRAY AGILR	RFL 160W96LED4K G2 R3M UNV PH9 SP1 GY3
PHOTOMETRIC CURVE:	ERL2 21C340 -347-380V.IES	RFL-160W96LED4K-G2-R3M.Ies	ERL2 21C340 -120-277V.IES	RFL-160W96LED4K-G2-R3M.Ies	ERL2 21C340 -120-277V.IES	RFL-160W96LED4K-G2-R3M.Ies
IES DISTRIBUTION:	TYPE III, MEDIUM	TYPE III, MEDIUM	TYPE III, MEDIUM	TYPE III, MEDIUM	TYPE III, MEDIUM	TYPE III, MEDIUM
ULOR:	0 (ZERO UPLIGHT)	0 (ZERO UPLIGHT)	0 (ZERO UPLIGHT)	0 (ZERO UPLIGHT)	0 (ZERO UPLIGHT)	0 (ZERO UPLIGHT)
IES SURFACE CLASSIFICATION:	R2/R3	R2/R3	R2/R3	R2/R3	R2/R3	R2/R3
MOUNTING HEIGHT ABOVE ROADWAY:	40'	40'	40'	40'	40'	40'
MAST ARM LENGTH:	10'	10'	15'	15'	15'	15'
FIXTURE TILT:	0°	0°	0°	0°	0°	0°
TOTAL LIGHT LOSS FACTOR:	0.684	0.684	0.684	0.684	0.684	0.684
LAMP TYPE:	LED	LED	LED	LED	LED	LED
SYSTEM EFFICACY:	119	126	121	126	121	126
CORRELATED COLOR TEMPERATURE:	4000K	4000K	4000K	4000K	4000K	4000K
COLOR RENDERING INDEX (CRI):	70	70	70	70	70	70
INITIAL LUMENS (FC):	21000	20254	21000	20254	21000	20254
LUMEN MAINTENANCE DATA @100,000 HOURS, 25°C (Lx):	L91	L70	L91	L70	L91	L70

LUMINANCE SUMMARY

LOCATION	Roadway Classification	Pedestrian Classification	DESIGN CRITERIA				ANALYSIS RESULTS			
			Average Luminance L(ave) (cd/m2)	Average Uniformity Ratio L(ave)/L(min)	Maximum Luminance L(max)/L(min)	Maximum Veiling Luminance Ratio LV(Max)/L(ave)	Average Luminance L(ave) (cd/m2)	Average Uniformity Ratio L(ave)/L(min)	Maximum Luminance L(max)/L(min)	Maximum Veiling Luminance Ratio LV(Max)/L(ave)
ILLINOIS ROUTE 1 - RAMP ROAD TO 14TH STREET	MAJOR	LOW	0.60	3.50	6.00	0.3	0.83	1.38	2.33	0.24
GE EVOLVE ERL2 SERIES										
PHILIPS LUMEC ROADFOCUS SERIES							0.69	1.73	2.75	0.29

ROADWAY LIGHTING BILL OF MATERIALS

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	SOUTHGATE DRIVE	RAMP ROAD	ILLINOIS ROUTE 1
B1028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2580	460	502	1618
B1500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	1	0	1	0
B1702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	430	240	190	0
B1702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	10380	1520	1590	7270
B4200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	4	0	0	4
B4200804	REMOVAL OF POLE FOUNDATION	EACH	8	0	0	8
B4400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4	0	0	4
B7900200	DRILL EXISTING HANDHOLE	EACH	1	1	0	0
X1200139	REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	6	0	0	6
X1400238	LUMINAIRE, LED, SPECIAL	EACH	6	0	0	6
X8130110	JUNCTION BOX (SPECIAL)	EACH	13	4	3	6
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	4	0	0	4
XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	10	5	5	0
XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	2	1	1	0

ILLUMINANCE SUMMARY

LOCATION	Functional Classification	Pedestrian Conflict	DESIGN CRITERIA		ANALYSIS RESULTS	
			Average Illuminance E(ave) (fc)	Average Uniformity Ratio E(ave)/E(min)	Average Illuminance E(ave) (fc)	Average Uniformity Ratio E(ave)/E(min)
INTERSECTION ROUTE 1 / RAMP ROAD	Major/Local	Low	1.30	3.00	2.04	2.91
GE EVOLVE ERL2 SERIES					1.86	2.66
PHILIPS LUMEC ROADFOCUS SERIES						
INTERSECTION ROUTE 1 / SOUTHGATE DRIVE	Major/Local	Low	1.30	3.00	2.29	2.08
GE EVOLVE ERL2 SERIES					2.09	2.32
PHILIPS LUMEC ROADFOCUS SERIES						

LISA M. ZAHRT

 PROFESSIONAL ENGINEER

 CLARK DIETZ, INC.

 FOR SHEETS 46-54

 DATE: 3/6/2016

 LICENSE EXPIRES 11/30/2019

ROADWAY LIGHTING PLANS
 LAYOUT / GENERAL NOTES / BILL OF MATERIALS
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILLION COUNTY, ILLINOIS

DESIGNED BY: MJS
 DATE: 03/2018
 DRAWN BY: MJS
 DATE: 03/2018
 CHECKED BY: LMZ
 DATE: 03/2018
 APPROVED BY: LMZ
 DATE: 03/2018

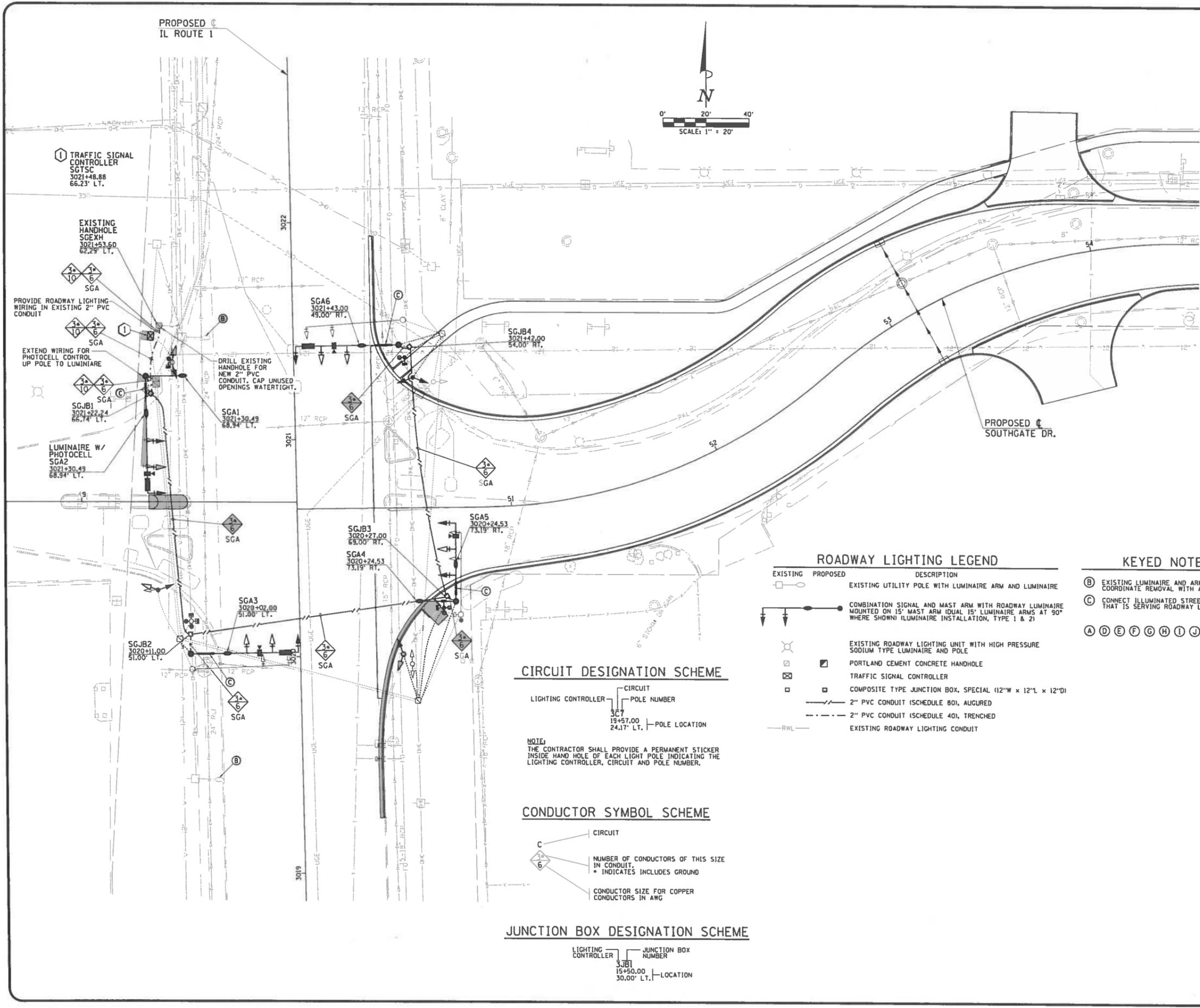
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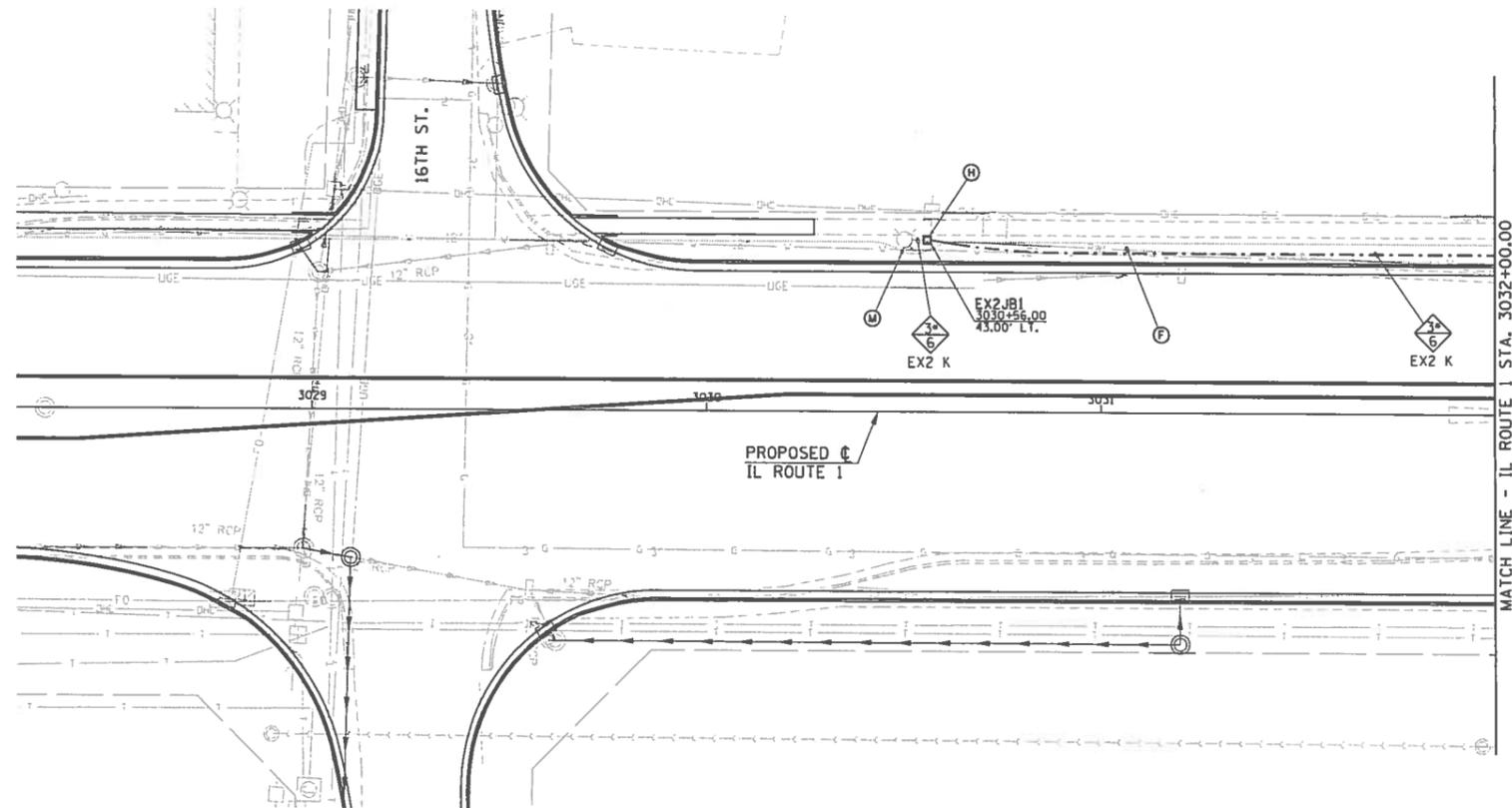
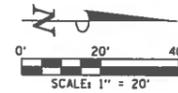
PROJECT NO
 14TIL009
 46
 SHEET 46 OF 73

Clark Dietz
 DESIGN FIRM REGISTRATION
 No. 194-000450
 125 WEST CHURCH STREET
 CHAMPAIGN, IL 61820
 PHONE: 217.373.8990 www.clarkdietz.com

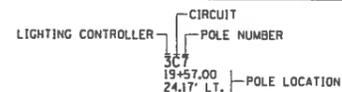
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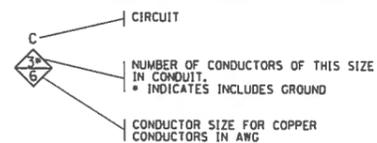


CIRCUIT DESIGNATION SCHEME



NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING ROADWAY LIGHTING UNIT WITH HIGH PRESSURE SODIUM TYPE LUMINAIRE AND POLE
		COMPOSITE TYPE JUNCTION BOX, SPECIAL (12" W x 12" L x 12" D)
		2" PVC CONDUIT (SCHEDULE 80), AUGURED
		2" PVC CONDUIT (SCHEDULE 40), TRENCHED
		EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (F) CUT OFF EXISTING ROADWAY LIGHTING CIRCUIT CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
- (H) INTERCEPT EXISTING CONDUIT WITH NEW JUNCTION BOX.
- (M) EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN. REMOVE EXISTING WIRING FROM POLE TO WHERE PROPOSED JUNCTION BOX INTERCEPTS EXISTING CONDUIT. EXISTING CONDUIT TO REMAIN AND BE REUSED FOR NEW WIRING FROM POLE TO PROPOSED JUNCTION BOX. PROVIDE 2#8, 1+66 FROM JUNCTION BOX TO EXISTING POLE. CONNECT NEW WIRING TO EXISTING WIRING IN POLE.

(A) (B) (C) (D) (E) (G) (I) (J) (K) (L) NOT USED

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No. 194-000450
125 WEST CHURCH STREET
CHAMPAIGN, IL 61820
PHONE: 217.273.8900
www.clarkdietz.com

ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

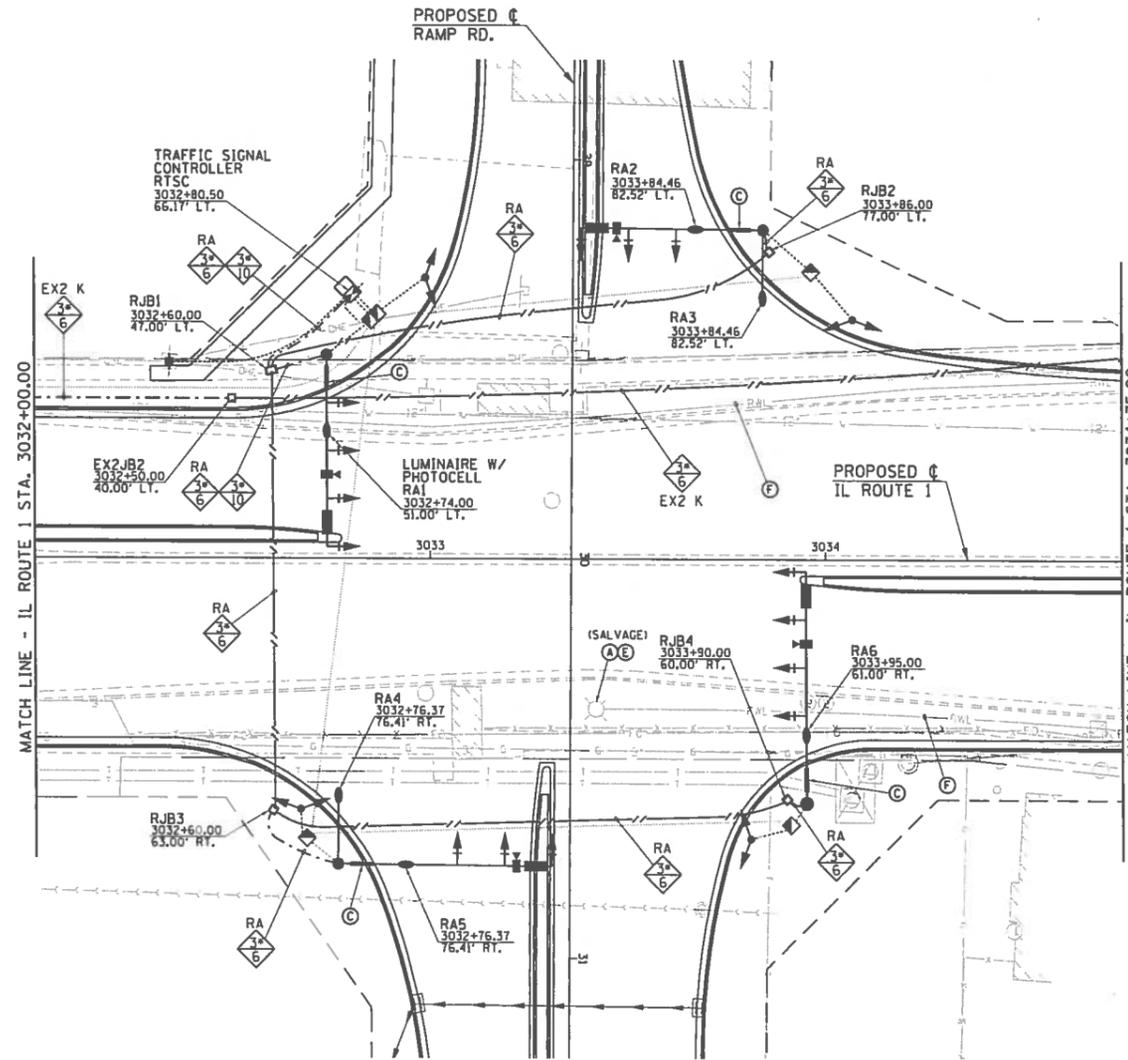
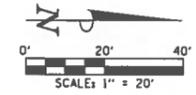
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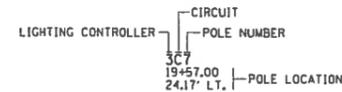
PROJECT NO.
14TIL009

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SHEET 48 OF 73

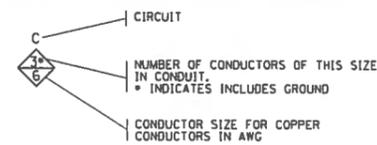


CIRCUIT DESIGNATION SCHEME

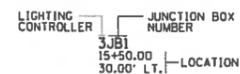


NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		COMBINATION SIGNAL AND MAST ARM WITH ROADWAY LUMINAIRE MOUNTED ON 15' MAST ARM (DUAL 15' LUMINAIRE ARMS AT 90° WHERE SHOWN) (LUMINAIRE INSTALLATION, TYPE 1 & 2)
		EXISTING ROADWAY LIGHTING UNIT WITH HIGH PRESSURE SODIUM TYPE LUMINAIRE AND POLE
		PORTLAND CEMENT CONCRETE HANDHOLE
		TRAFFIC SIGNAL CONTROLLER
		COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
		GULFBOX JUNCTION, COMPOSITE CONCRETE (13"W x 24"L x 12"D)
		2" PVC CONDUIT (SCHEDULE 80), AUGURED
		2" PVC CONDUIT (SCHEDULE 40), TRENCHED
		EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE AND SALVAGED ACCORDING TO GENERAL NOTES.
- (C) CONNECT ILLUMINATED STREET SIGN TO SAME ROADWAY LIGHTING CIRCUIT THAT IS SERVING ROADWAY LIGHTING LUMINAIRE ON THIS SIGNAL POLE.
- (E) EXISTING POLE FOUNDATION TO BE REMOVED COMPLETE.
- (F) CUT OFF EXISTING ROADWAY LIGHTING CIRCUIT CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
- (B) (D) (G) (H) (I) (J) (K) (L) (M) NOT USED

ClarkDietz

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No. 194-000450
125 WEST CLARK STREET
CHAMPAIGN, IL 61820
PHONE: 317.373.8900 www.clarkdietz.com

ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1 & RAMP ROAD
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

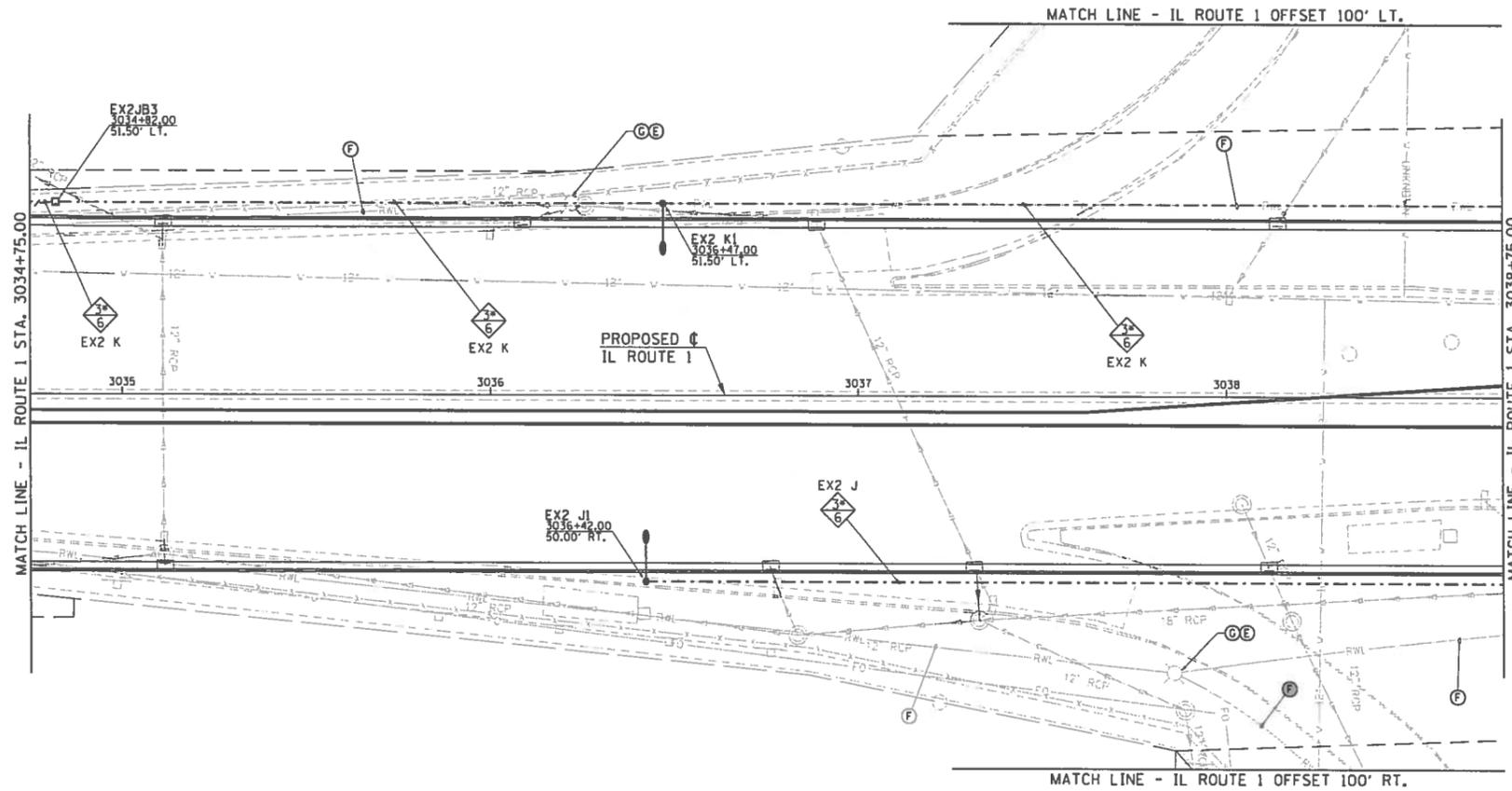
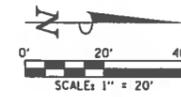
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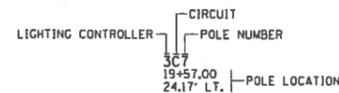
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14TIL009

49

SHEET 49 OF 73

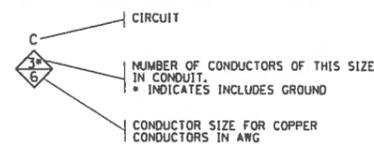


CIRCUIT DESIGNATION SCHEME



NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
—●—	—●—	REINSTALL EXISTING LIGHT POLE (40' ALUMINUM POLE WITH A 10' ALUMINUM DAVIT ARM), PROVIDE NEW LED ROADWAY LUMINAIRE (LUMINAIRE, LED, SPECIAL), PROVIDE NEW METAL FOUNDATION (LIGHT POLE FOUNDATION, SPECIAL, SEE SPECIAL PROVISIONS).
⊗	⊗	EXISTING ROADWAY LIGHTING UNIT WITH HIGH PRESSURE SODIUM TYPE LUMINAIRE AND POLE
□	□	COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
—	—	2" PVC CONDUIT (SCHEDULE 80), AIRURED
---	---	2" PVC CONDUIT (SCHEDULE 40), TRENCHED
—RWL—	—RWL—	EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (E) EXISTING POLE FOUNDATION TO BE REMOVED COMPLETE.
 - (F) CUT OFF EXISTING ROADWAY LIGHTING CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
 - (G) REMOVE AND REINSTALL EXISTING LIGHT POLE AND SALVAGE EXISTING ROADWAY LUMINAIRE. SEE SPECIAL PROVISIONS.
- (A) (B) (C) (D) (H) (I) (J) (K) (L) (M) NOT USED

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No. 184-000450
125 WEST CHURCH STREET
CHAMPAIGN, IL 61820
PHONE: 217.373.8800 www.clarkdietz.com

ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

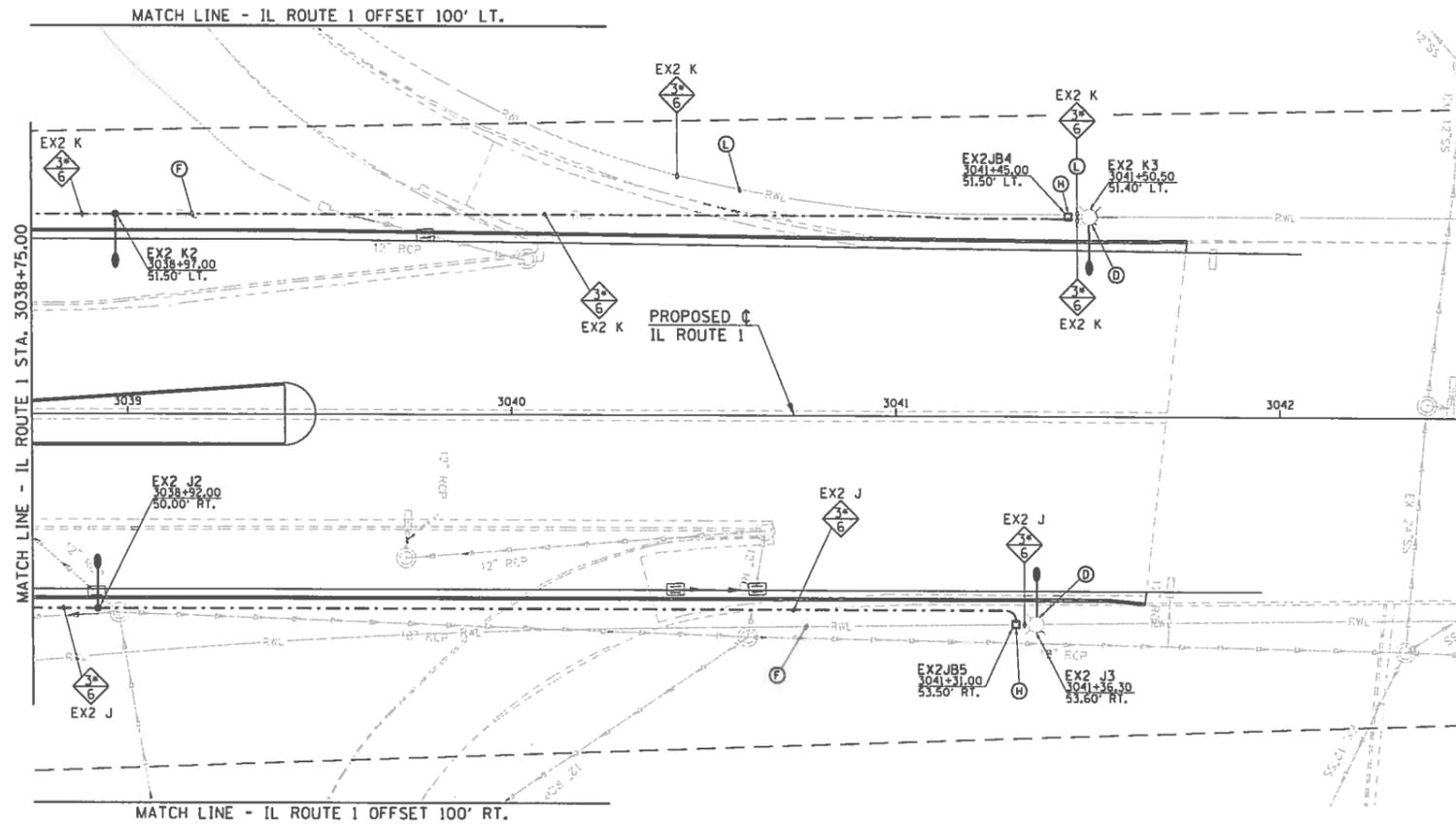
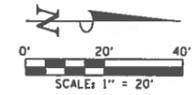
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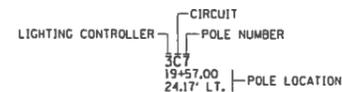
PROJECT NO.
14TIL009

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SHEET 50 OF 73

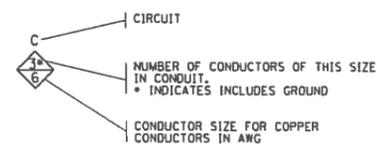


CIRCUIT DESIGNATION SCHEME

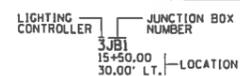


NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
●	●	REINSTALL EXISTING LIGHT POLE (40' ALUMINUM POLE WITH A 10' ALUMINUM DAVIT ARM). PROVIDE NEW LED ROADWAY LUMINAIRE (LUMINAIRE, LED, SPECIAL). PROVIDE NEW METAL FOUNDATION (LIGHT POLE FOUNDATION, SPECIAL). SEE SPECIAL PROVISIONS.
●	●	EXISTING ROADWAY LIGHT POLE. PROVIDE NEW LED ROADWAY LUMINAIRE (LUMINAIRE, LED, SPECIAL).
□	□	COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
---	---	2" PVC CONDUIT (SCHEDULE 80), AUGURED
---	---	2" PVC CONDUIT (SCHEDULE 40), TRENCHED
---	---	EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (D) EXISTING LIGHT POLE TO REMAIN. REMOVE AND SALVAGE EXISTING ROADWAY LUMINAIRE. PROVIDE NEW LED ROADWAY LUMINAIRE. REMOVE EXISTING WIRING FROM POLE TO WHERE PROPOSED JUNCTION BOX INTERCEPTS EXISTING CONDUIT. EXISTING CONDUIT TO REMAIN AND BE REUSED FOR NEW WIRING FROM POLE TO PROPOSED JUNCTION BOX. PROVIDE 2" PVC 1" EGG FROM JUNCTION BOX TO EXISTING POLE. CONNECT NEW WIRING TO EXISTING WIRING IN POLE.
- (F) CUT OFF EXISTING ROADWAY LIGHTING CIRCUIT CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
- (H) INTERCEPT EXISTING CONDUIT WITH NEW JUNCTION BOX.
- (L) REMOVE EXISTING WIRING AND PROVIDE NEW WIRING IN EXISTING CONDUIT TO MAINTAIN CIRCUIT CONTINUITY.
- (A) (B) (C) (E) (G) (I) (J) (K) (M) NOT USED

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CHAMPAIGN, IL 61820
PHONE: 317.372.8900 www.clarkdietz.com

ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

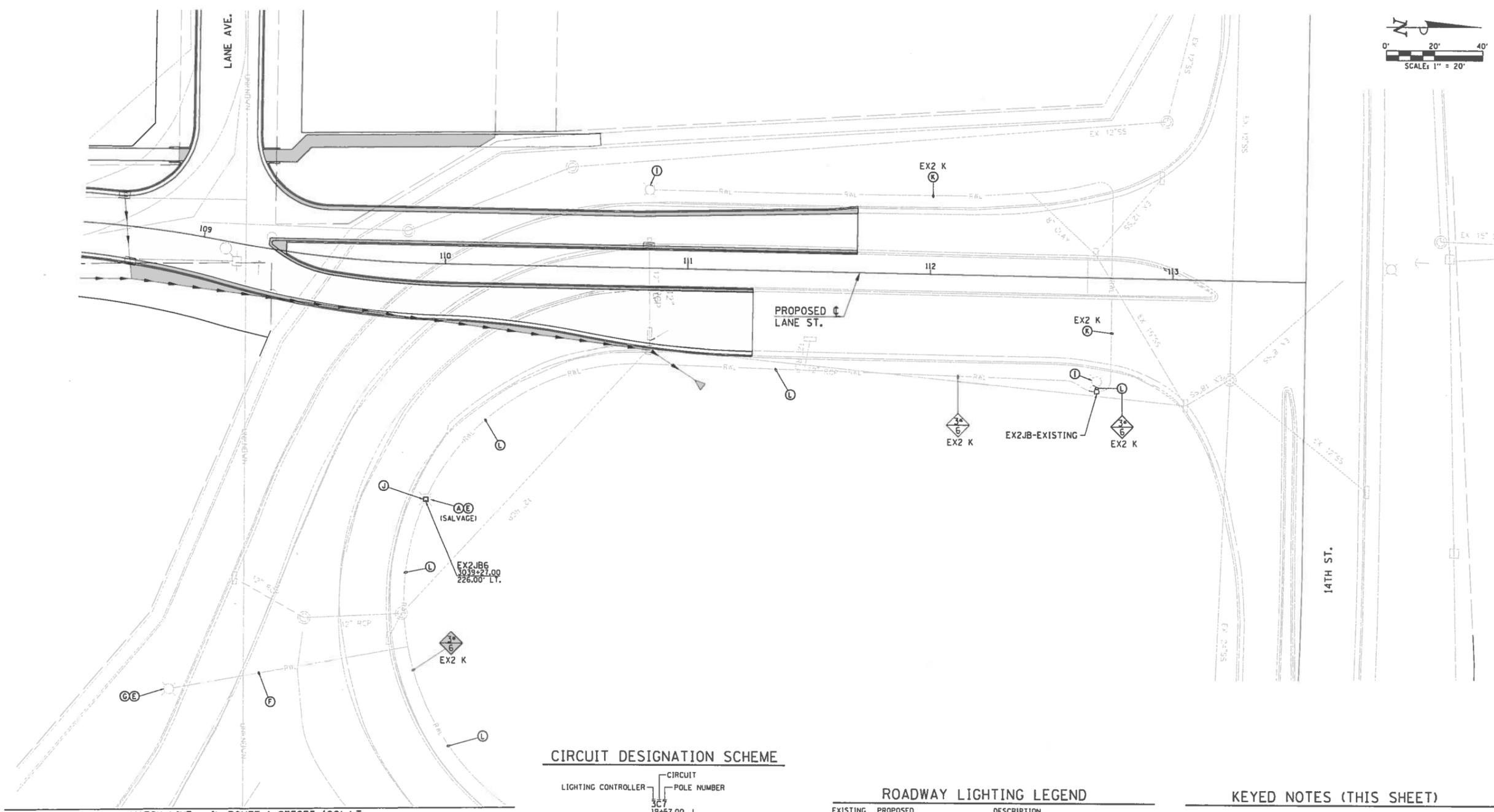
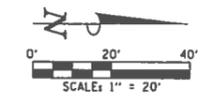
DESIGNED BY: MJS	DATE: 03/2018
DRAWN BY: MJS	DATE: 03/2018
CHECKED BY: LMZ	DATE: 03/2018
APPROVED BY: LMZ	DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009

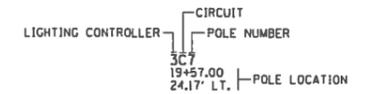
51

SHEET 51 OF 73



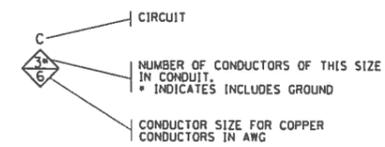
MATCH LINE - IL ROUTE 1 OFFSET 100' LT.

CIRCUIT DESIGNATION SCHEME

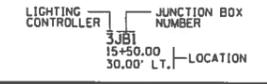


NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING ROADWAY LIGHTING UNIT WITH HIGH PRESSURE SODIUM TYPE LUMINAIRE AND POLE
		COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
		2" PVC CONDUIT (SCHEDULE 80), AUGURED
		2" PVC CONDUIT (SCHEDULE 40), TRENCHED
		EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE AND SALVAGED ACCORDING TO GENERAL NOTES.
 - (E) EXISTING POLE FOUNDATION TO BE REMOVED COMPLETE.
 - (F) CUT OFF EXISTING ROADWAY LIGHTING CIRCUIT CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
 - (G) REMOVE AND REINSTALL EXISTING LIGHT POLE AND SALVAGE EXISTING ROADWAY LUMINAIRE. SEE SPECIAL PROVISIONS.
 - (I) EXISTING LIGHTING UNIT TO REMAIN AS PRESENTLY INSTALLED. MAINTAIN EXISTING CIRCUIT CONTINUITY.
 - (J) PROVIDE JUNCTION BOX AND INTERCEPT EXISTING CONDUIT.
 - (K) EXISTING CONDUIT AND WIRING TO REMAIN TO MAINTAIN EXISTING CIRCUIT CONTINUITY.
 - (L) REMOVE EXISTING WIRING AND PROVIDE NEW WIRING IN EXISTING CONDUIT TO MAINTAIN CIRCUIT CONTINUITY.
- (B) (C) (D) (H) (M) NOT USED

ClarkDietz

DESIGN FIRM REGISTRATION
No. 104-000650
125 WEST CHURCH STREET
CHAMPAIGN, IL 61820
PHONE: 217.373.8800 www.clarkdietz.com

**ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1 & 14TH STREET RAMP
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS**

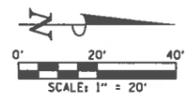
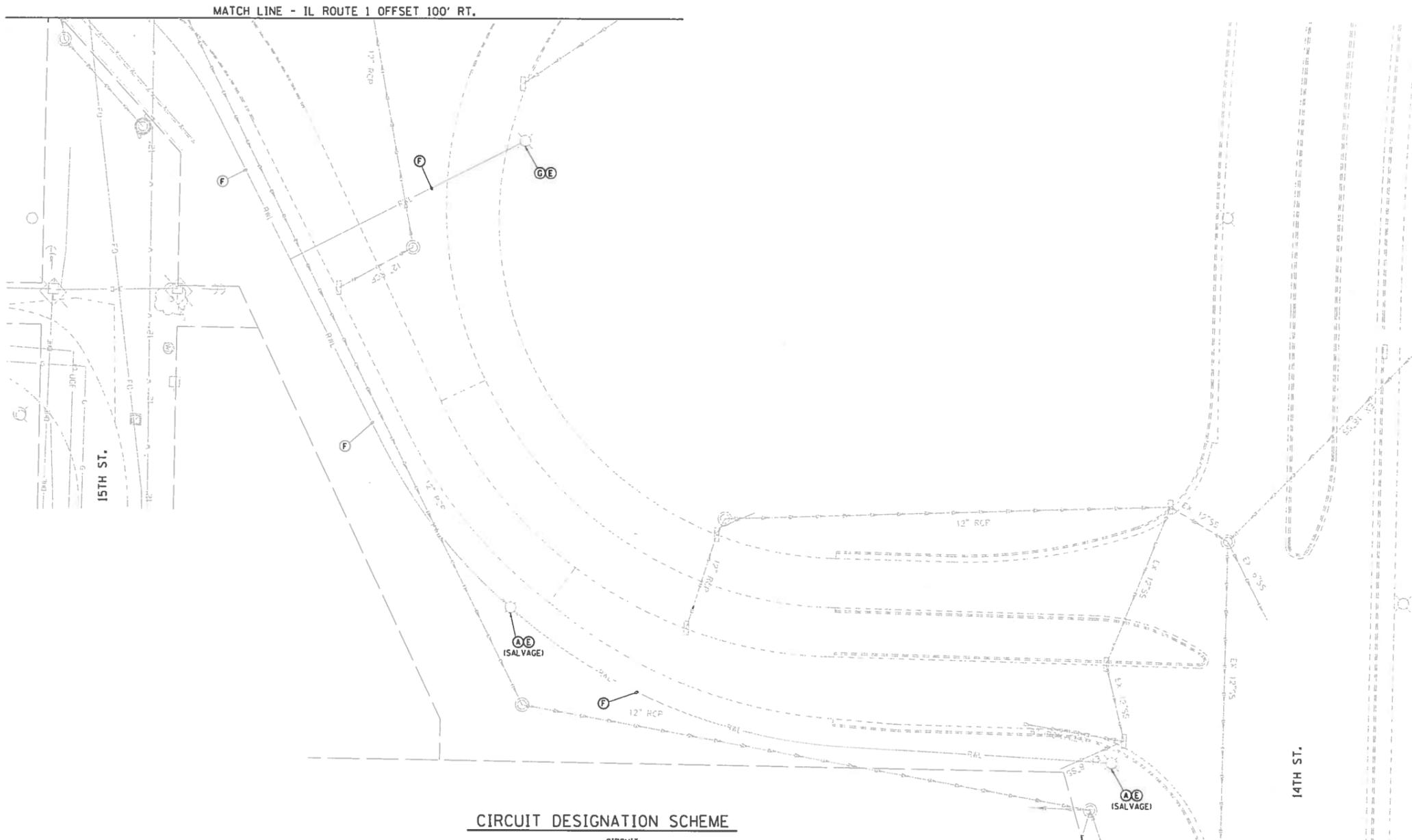
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MLS	03/2018
DRAWN BY	DATE
MLS	03/2018
CHECKED BY	DATE
LMZ	03/2018
APPROVED BY	DATE
LMZ	03/2018

REVISIONS	
NO.	DESCRIPTION

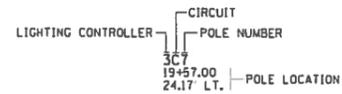
PROJECT NO
14TIL009

52

SHEET 52 OF 73

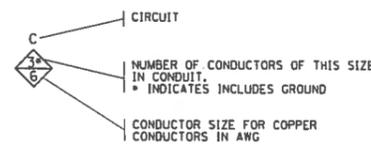


CIRCUIT DESIGNATION SCHEME

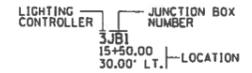


NOTE:
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER INSIDE HAND HOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT AND POLE NUMBER.

CONDUCTOR SYMBOL SCHEME



JUNCTION BOX DESIGNATION SCHEME



ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING ROADWAY LIGHTING UNIT WITH HIGH PRESSURE SODIUM TYPE LUMINAIRE AND POLE
		COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
		2" PVC CONDUIT (SCHEDULE 80), AUGURED
		2" PVC CONDUIT (SCHEDULE 40), TRENCHED
		EXISTING ROADWAY LIGHTING CONDUIT

KEYED NOTES (THIS SHEET)

- (A)** EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE AND SALVAGED ACCORDING TO GENERAL NOTES.
- (E)** EXISTING POLE FOUNDATION TO BE REMOVED COMPLETE.
- (F)** CUT OFF EXISTING ROADWAY LIGHTING CIRCUIT CONDUCTORS AND CONDUIT 24" BELOW GRADE AND ABANDON IN PLACE.
- (C)** REMOVE AND REINSTALL EXISTING LIGHT POLE AND SALVAGE EXISTING ROADWAY LUMINAIRE. SEE SPECIAL PROVISIONS.
- (B) (C) (D) (H) (I) (J) (K) (L) (M)** NOT USED

ClarkDietz

DESIGN FIRM REGISTRATION
No. 194-000450
125 WEST CHURCH STREET
CHAMPAIGN, IL 61820
PHONE: 217.373.8900 www.clarkdietz.com

ROADWAY LIGHTING PLANS
ILLINOIS ROUTE 1 & 14TH STREET RAMPS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILLION COUNTY, ILLINOIS

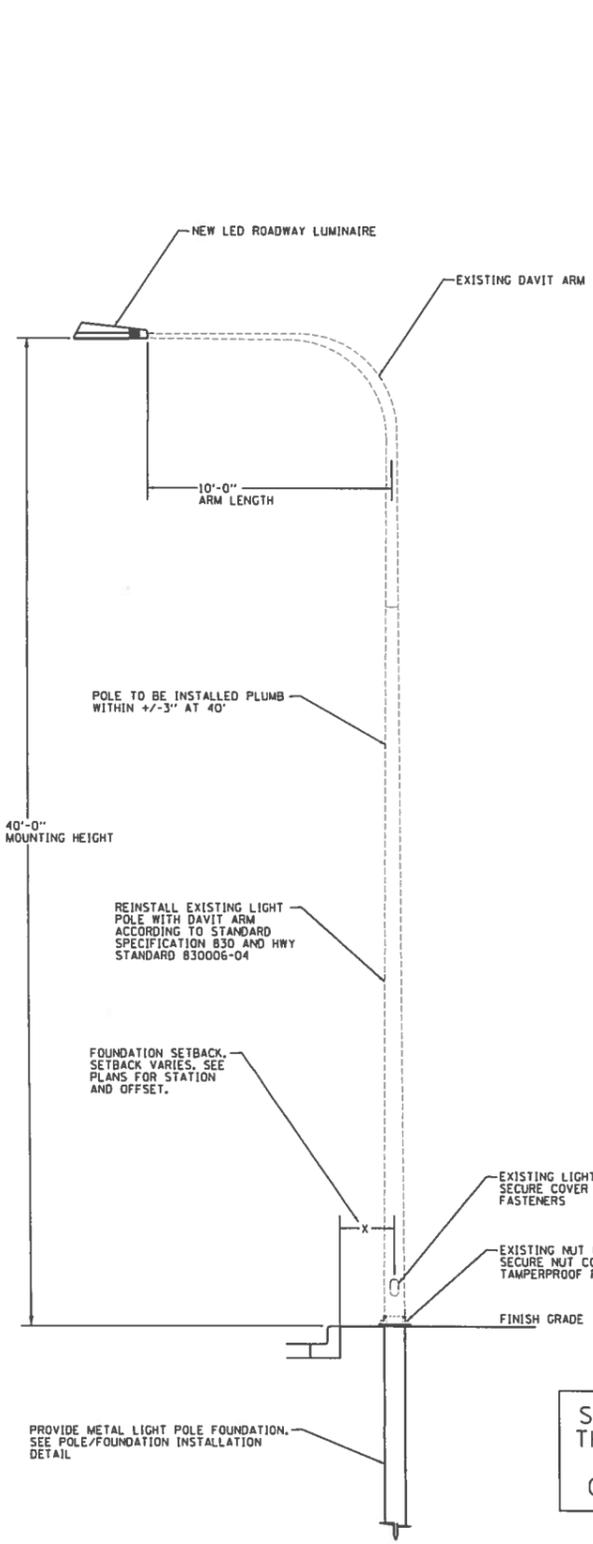
DESIGNED BY: MJS	DATE: 03/2018
DRAWN BY: MJS	DATE: 03/2018
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APPROVED BY: LMZ	DATE: 03/2018

NO.	DATE	BY	DESCRIPTION

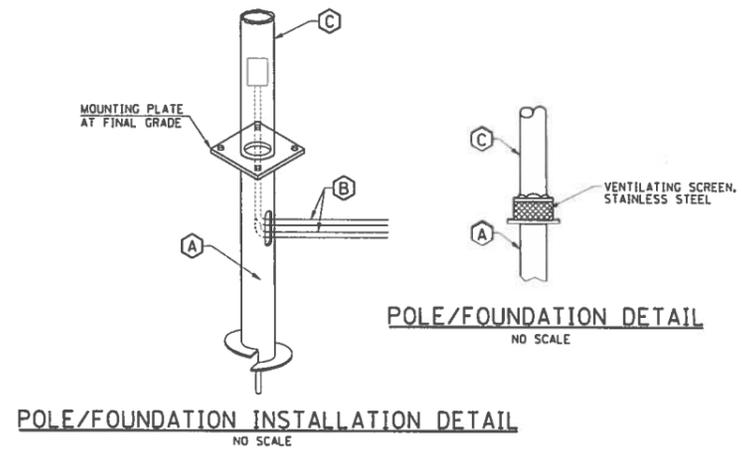
PROJECT NO
14TIL009

53
SHEET 53 OF 73

NO.	DATE	BY	DESCRIPTION

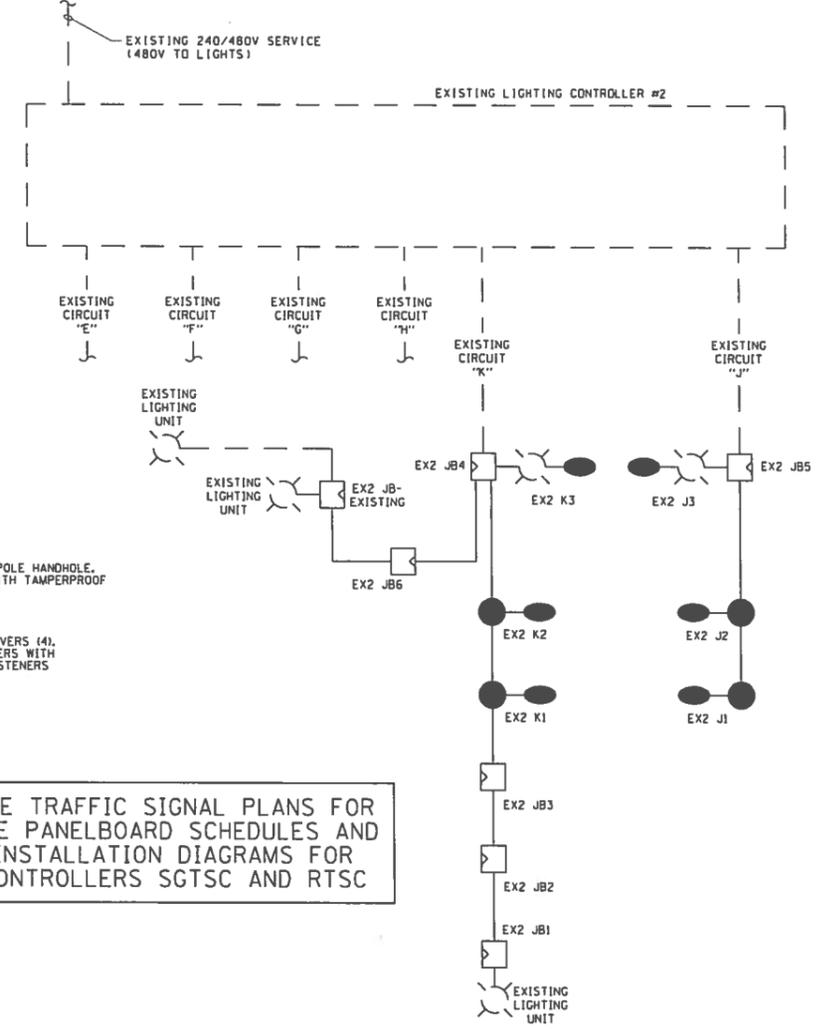


ALUMINUM LIGHT POLE - DAVIT ARM
NO SCALE



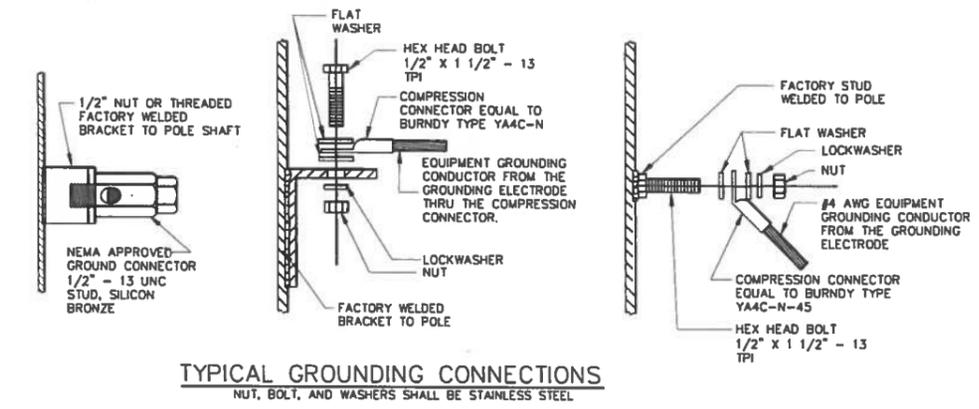
POLE/FOUNDATION INSTALLATION DETAIL
NO SCALE

- KEYED NOTES**
- (A) METAL FOUNDATION IN ACCORDANCE WITH STANDARD 836001 AND THE SPECIAL PROVISIONS.
 - (B) CONDUIT AND CABLE AS SHOWN ON THE PLANS.
 - (C) ALUMINUM LIGHT POLE AND DAVIT ARM IN ACCORDANCE WITH STANDARD 830006-04 AND THE SPECIAL PROVISIONS. POLE TO BE INSTALLED PLUMB WITHIN +/- 3" AT 40'.

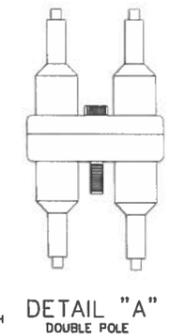
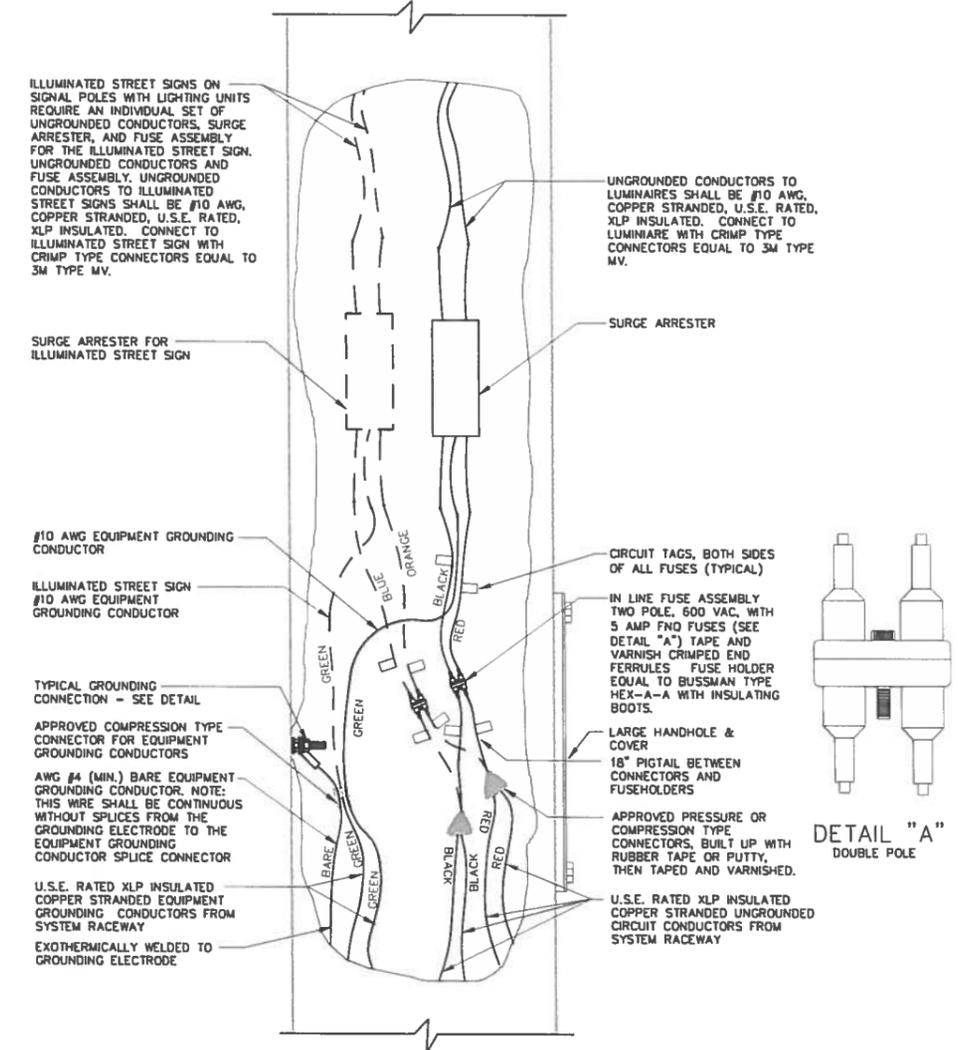


SEE TRAFFIC SIGNAL PLANS FOR THE PANELBOARD SCHEDULES AND INSTALLATION DIAGRAMS FOR CONTROLLERS SGTSC AND RTSC

EXISTING LIGHTING CONTROLLER #2 ONE-LINE DIAGRAM
NO SCALE

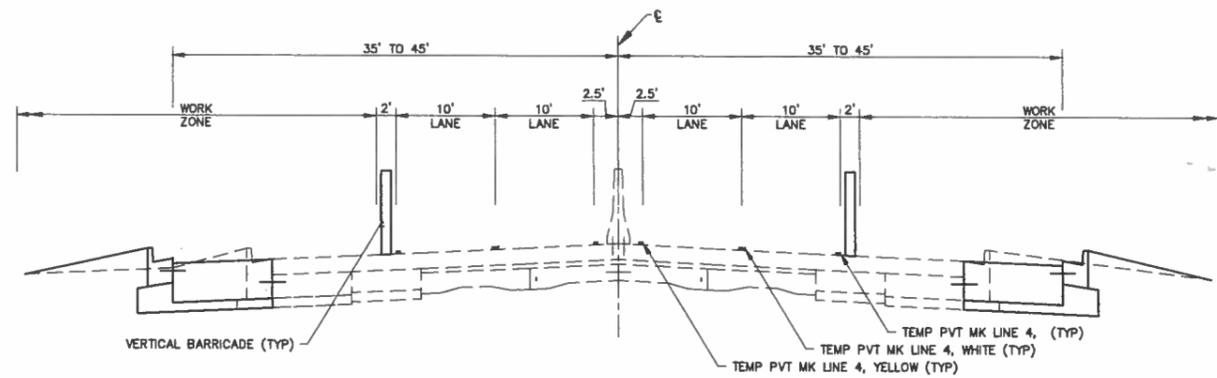


TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, AND WASHERS SHALL BE STAINLESS STEEL



2 WIRE - 240 VAC (UNGROUNDING CONDUCTORS) OR
2 WIRE - 480 VAC (UNGROUNDING CONDUCTORS)
WITH EQUIPMENT GROUNDING CONDUCTOR
NO SCALE

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 421 E. Main Street • Mahomet, IL 61853
 Ph 217-586-1803 • Fax 217-586-6757

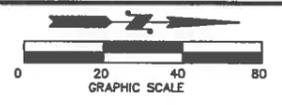


STAGE 1 TYPICAL SECTION - ROUTE 1

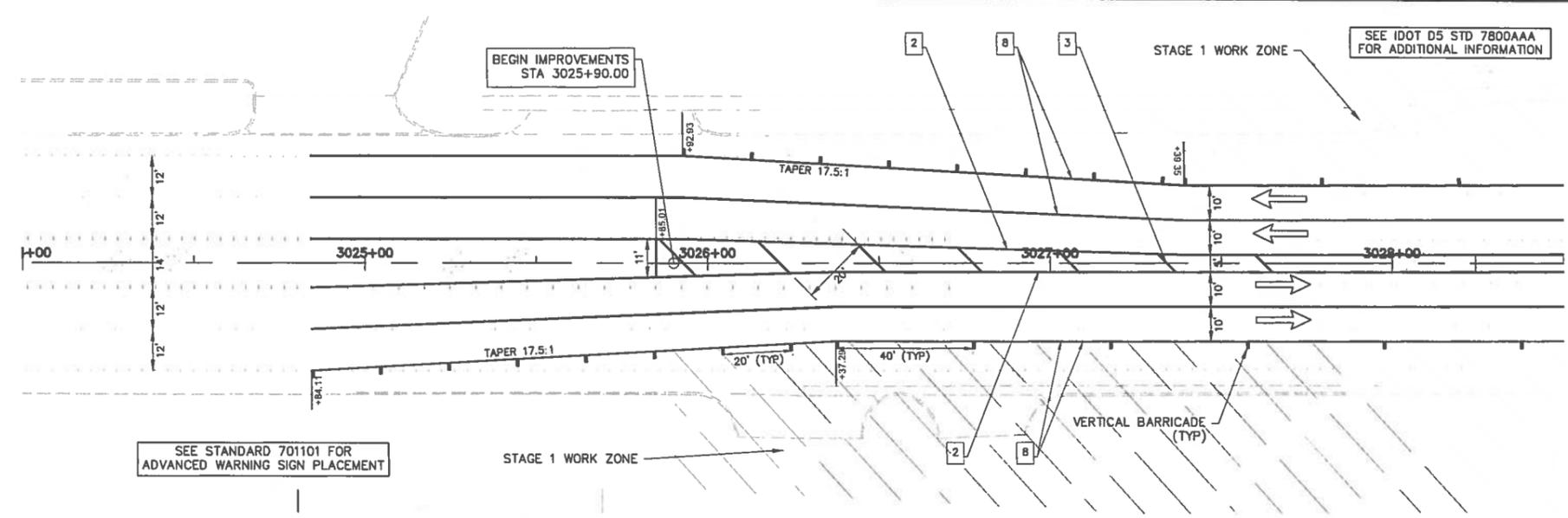
STAGE 1 WORK:

REMOVAL OF EXISTING PAVEMENT, CURB & GUTTER AND SIDEWALK.
 STORM SEWER WORK OUTSIDE THE ROADWAY.
 EXCAVATION OUTSIDE OF EOP TO PLACE AGG. BASE COURSE FOR CURB AND WIDENING.
 PLACING CURB AND GUTTER.
 PLACING PCC BASE COURSE WIDENING.
 PLACEMENT OF HMA LEVELING BINDER.
 PLACEMENT OF TEMPORARY PAVEMENT MARKING

SEE STANDARDS 701101, 701411, 701422, 701427 FOR ADVANCED WARNING SIGNS AND LANE CLOSURES, LANE CLOSURES AT ENTRANCE AND EXIT RAMP, AND LANE CLOSURES FOR MULTILANE INTERMITTENT OR MOVING OPERATIONS. TWO LANES IN EACH DIRECTION SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.



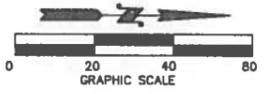
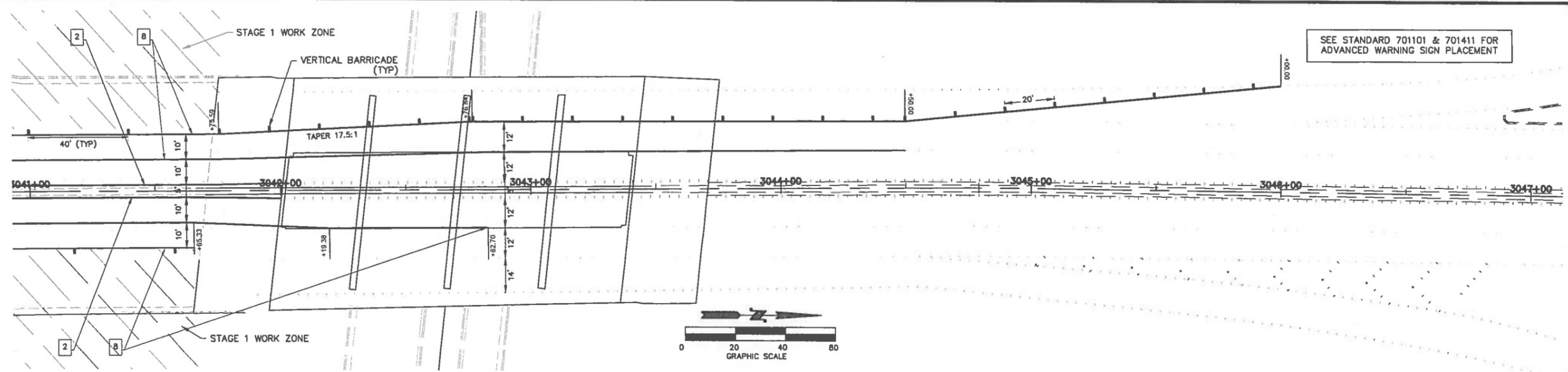
LEGEND
 ← DIRECTION OF TRAFFIC



- TEMPORARY PAVEMENT MARKING LEGEND**
- 1 4" SKIP-DASH (YELLOW)
 - 2 4" SOLID (YELLOW)
 - 3 12" DIAGONAL (YELLOW)
 - 4 4" DOUBLE YELLOW (NARROW)
 - 5 6" SOLID (WHITE)
 - 6 RESERVED
 - 7 4" SKIP-DASH (WHITE)
 - 8 4" SOLID (WHITE)
 - 9 12" DIAGONAL (WHITE)
 - 10 4" SOLID (WHITE)
 - 11 24" STOP BAR (WHITE)
 - 12 8" SOLID (WHITE)
 - 13 4" LANE LINE EXTENSIONS (WHITE)
 - 14 4" PARKING WHITE

SEE STANDARD 701101 FOR ADVANCED WARNING SIGN PLACEMENT

SEE STANDARD 701101 & 701411 FOR ADVANCED WARNING SIGN PLACEMENT



STAGE 1 TRAFFIC CONTROL PLAN - ROUTE 1

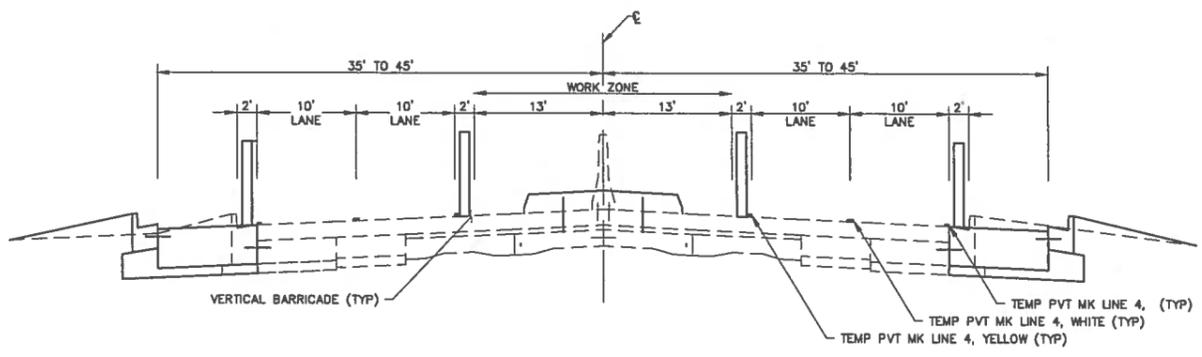
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY: MLN	DATE: 2/23/17
DESIGN BY: MLN	DATE: 2/23/17
CHECKED BY: BWS	DATE: 2/23/17
APP'D BY: TLO	DATE: 2/23/17

NO.	DATE	DESCRIPTION

PROJECT NO.
14TIL009

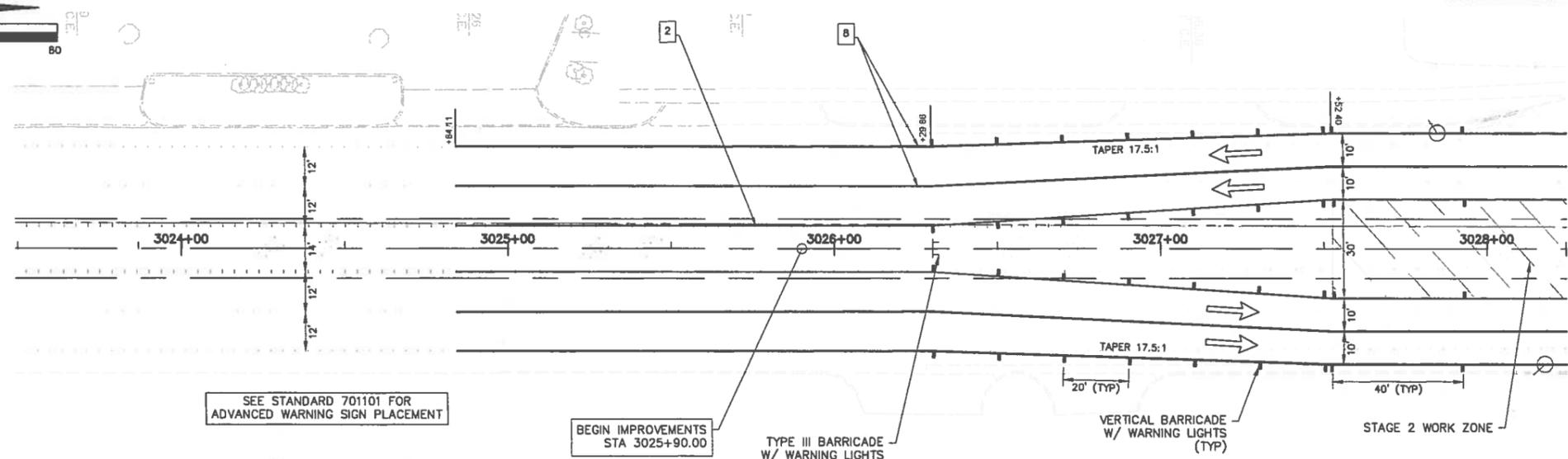
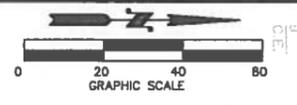
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STAGE 2 WORK:
 REMOVAL OF EXISTING CONCRETE BARRIER WALL AND RELOCATION OF IMPACT ATTENUATOR.
 PLACING PCC MEDIAN
 PLACEMENT OF HMA LEVELING BINDER
 PLACEMENT OF TEMPORARY PAVEMENT MARKINGS

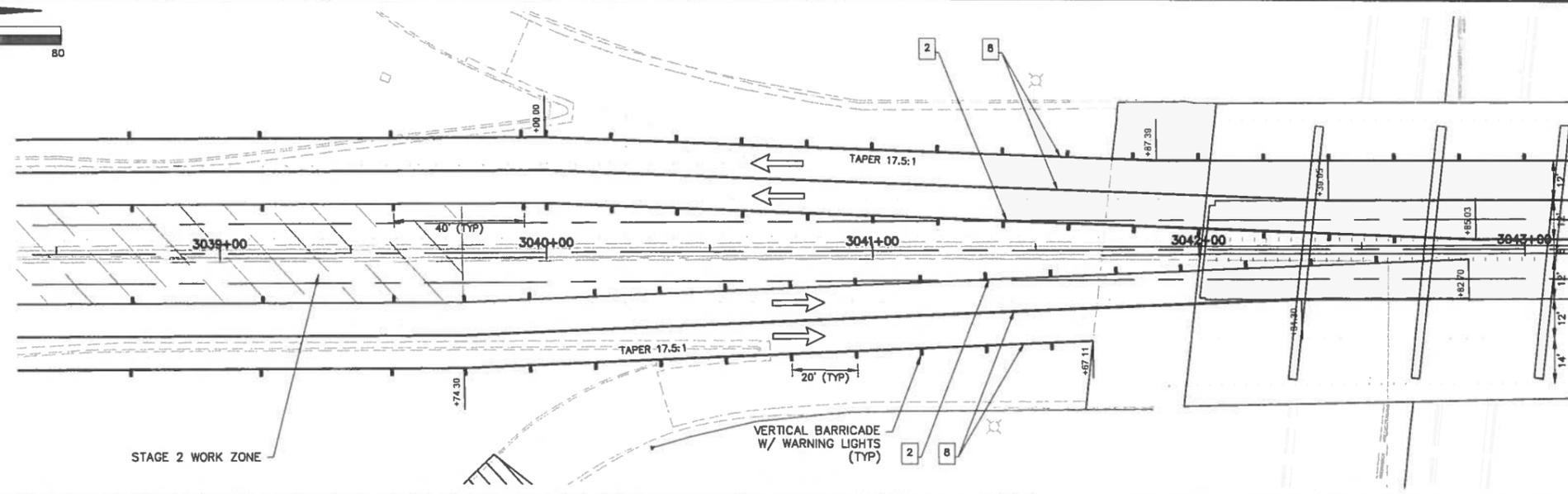
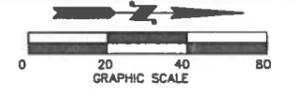
SEE STANDARDS 701101, 701411, 701422, 701427 FOR ADVANCED WARNING SIGNS AND LANE CLOSURES, LANE CLOSURES AT ENTRANCE AND EXIT RAMP, AND LANE CLOSURES FOR MULTILANE INTERMITTENT OR MOVING OPERATIONS. TWO LANES IN EACH DIRECTION SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

STAGE 2 TYPICAL SECTION - ROUTE 1



- TEMPORARY PAVEMENT MARKING LEGEND**
- 1 4" SKIP-DASH (YELLOW)
 - 2 4" SOLID (YELLOW)
 - 3 12" DIAGONAL (YELLOW)
 - 4 4" DOUBLE YELLOW (NARROW)
 - 5 6" SOLID (WHITE)
 - 6 RESERVED
 - 7 4" SKIP-DASH (WHITE)
 - 8 4" SOLID (WHITE)
 - 9 12" DIAGONAL (WHITE)
 - 10 4" SOLID (WHITE)
 - 11 24" STOP BAR (WHITE)
 - 12 8" SOLID (WHITE)
 - 13 4" LANE LINE EXTENSIONS (WHITE)
 - 14 4" PARKING WHITE
- SEE IDOT D5 STD 7800AAA FOR ADDITIONAL INFORMATION

LEGEND
 ← DIRECTION OF TRAFFIC



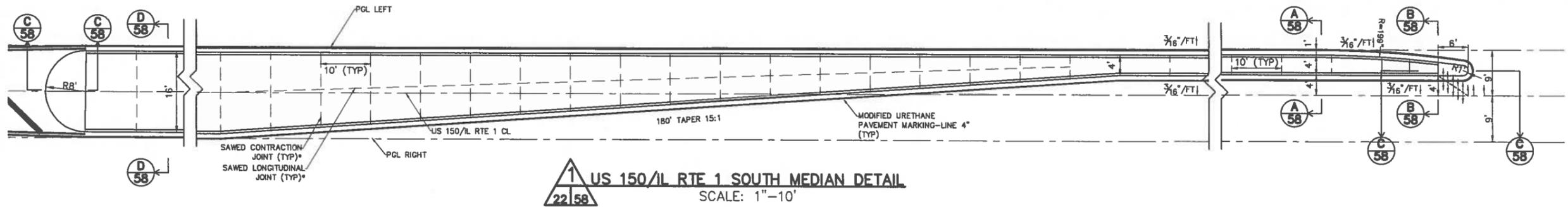
SEE STAGE 1 TRAFFIC CONTROL PLAN, SHEET XX, FOR TRAFFIC CONTROL BEYOND STA 3043+00. SEE STANDARDS 701101 AND 701411.

STAGE 2 TRAFFIC CONTROL PLAN - ROUTE 1

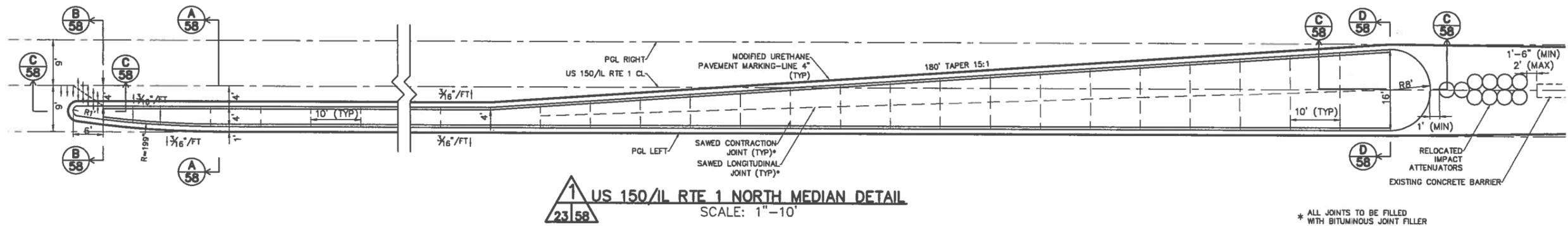
**TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS**

DRAWN BY: MLN	DATE: 2/23/17	DESIGN BY: MLN	DATE: 2/23/17	CHECKED BY: BWS	DATE: 2/23/17	APPROV BY: TLO	DATE: 2/23/17
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NO.	DATE	BY	DESCRIPTION

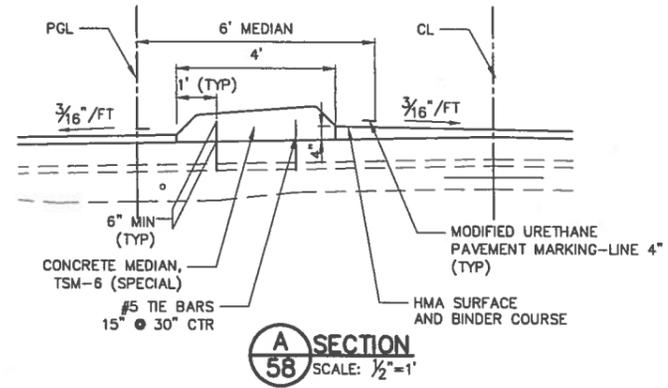


1
22/58
US 150/IL RTE 1 SOUTH MEDIAN DETAIL
SCALE: 1"=10'

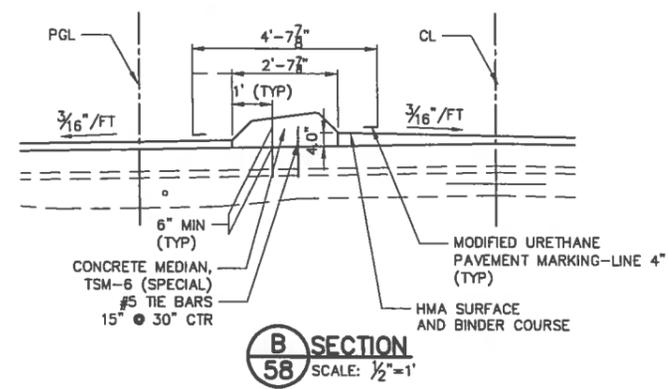


1
23/58
US 150/IL RTE 1 NORTH MEDIAN DETAIL
SCALE: 1"=10'

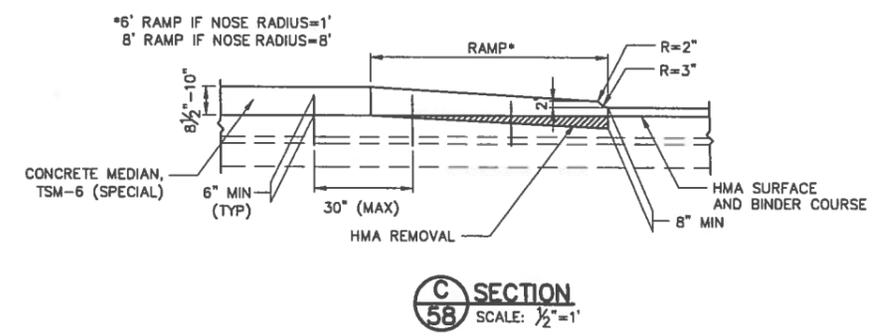
* ALL JOINTS TO BE FILLED WITH BITUMINOUS JOINT FILLER



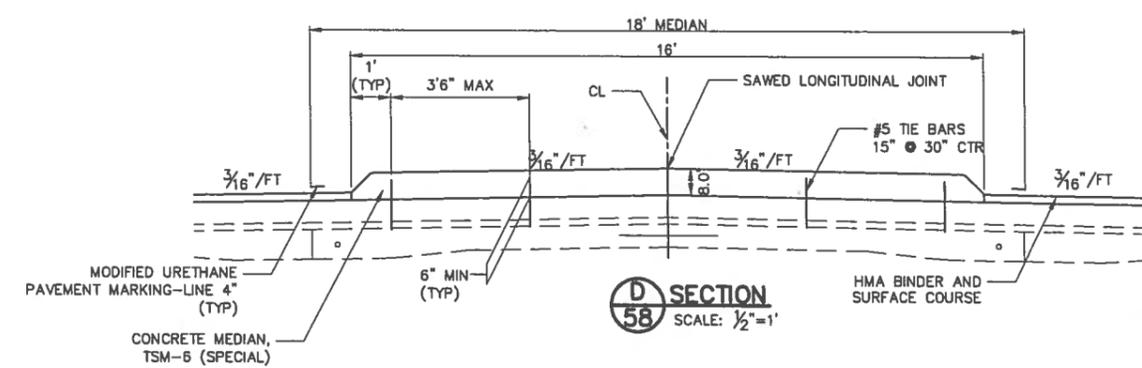
A SECTION
58
SCALE: 1/2"=1'



B SECTION
58
SCALE: 1/2"=1'



C SECTION
58
SCALE: 1/2"=1'



D SECTION
58
SCALE: 1/2"=1'

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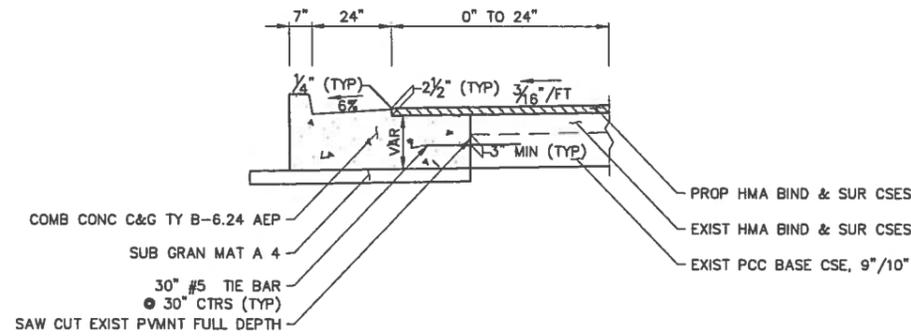
US 150/IL RTE 1 MEDIAN DETAILS
TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

DRAWN BY:	BWS
DATE:	2/23/17
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DATE:	2/23/17

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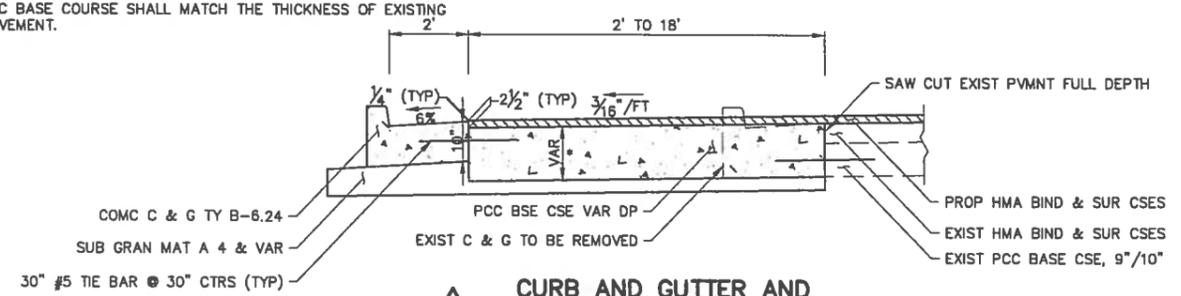
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 Professional Design Firm No. 184.005835
 421 E. Main Street • Mahomet, IL 61853
 Ph 217-586-1803 • Fax 217-586-6757



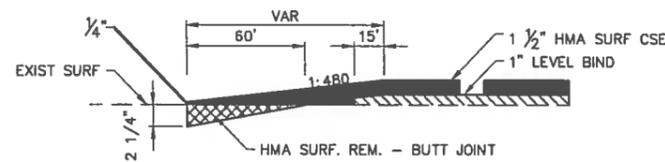
1 MONOLITHIC CONSTRUCTION OF CURB AND GUTTER AND BASE COURSE
 (PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 ABUTTING EXISTING PAVEMENT)
 *MATCH THICKNESS OF EXISTING PAVEMENT

NOTES:

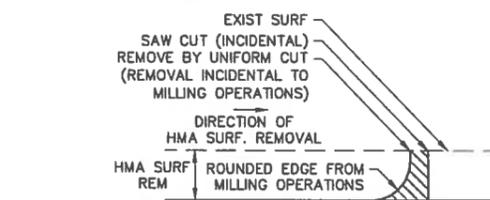
1. THE OF FURNISHING, SETTING, ETC OF TIE BARS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PORTLAND CEMENT CONCRETE BASE COURSE, VARIABLE DEPTH OR COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24.
2. SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. PCC BASE COURSE SHALL MATCH THE THICKNESS OF EXISTING PAVEMENT.



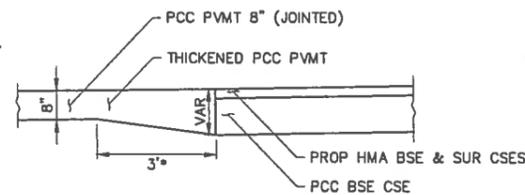
2 CURB AND GUTTER AND PAVEMENT WIDENING DETAIL
 *MATCH THICKNESS OF EXISTING BASE COURSE



3 HMA DETAIL AT BUTT JOINTS



4 HMA DETAIL AT BUTT JOINTS
 NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.



5 SIDE ROADS ABUTTING ROUTE 1 DETAIL
 *THICKEN PORTLAND CEMENT CONCRETE, 8" (JOINTED) TO MATCH ANY ADJACENT CONCRETE BASE COURSE. THE THICKENED CONCRETE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PORTLAND CEMENT CONCRETE, 8" (JOINTED).

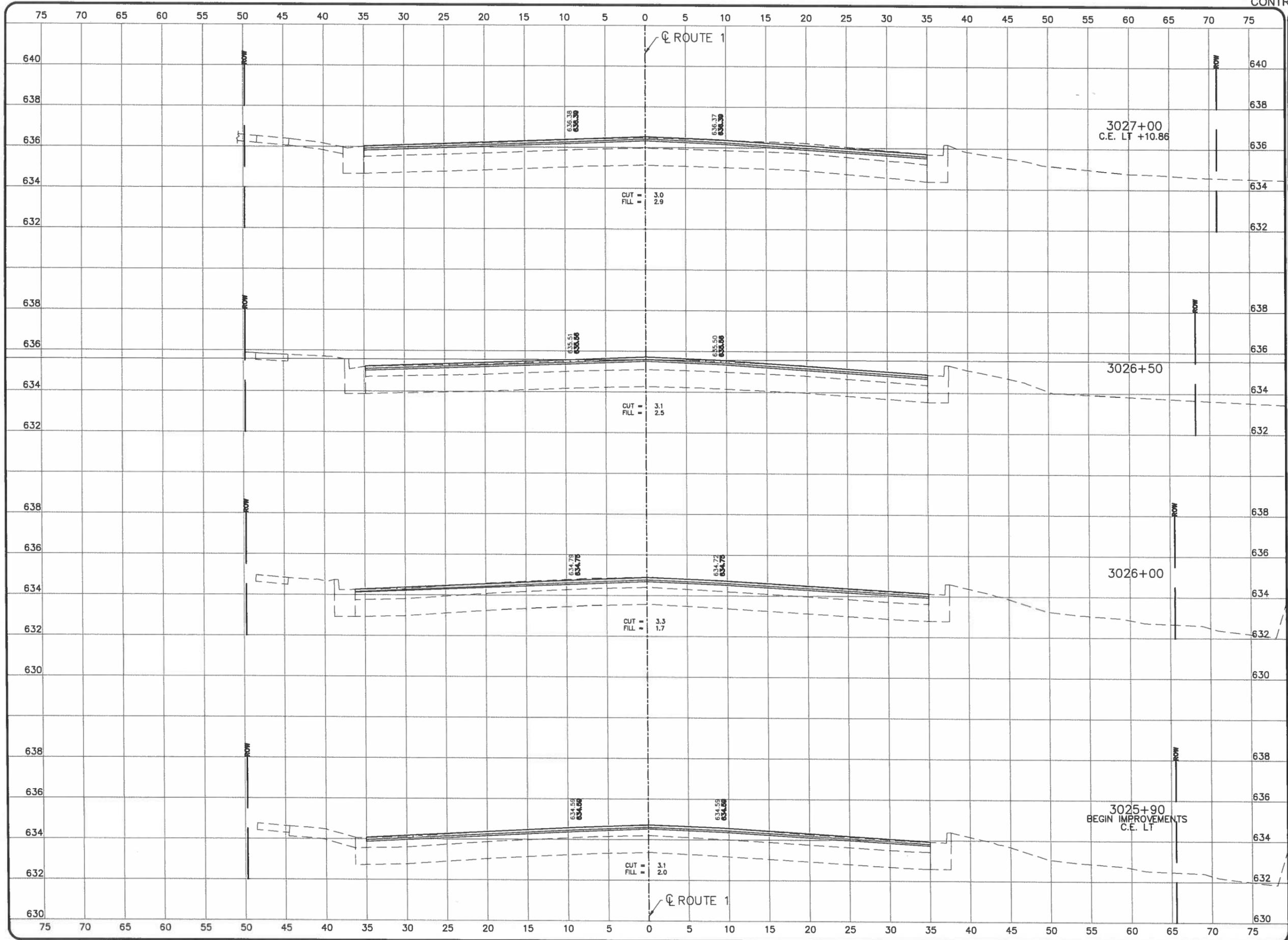
MISCELLANEOUS DETAILS

TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: MLN	DATE: 2/23/17	DESIGN BY: MIN	DATE: 2/23/17	CHECKED BY: BWS	DATE: 2/23/17	APPROVED BY: TLO	DATE: 2/23/17
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NO.	DATE	BY	DESCRIPTION

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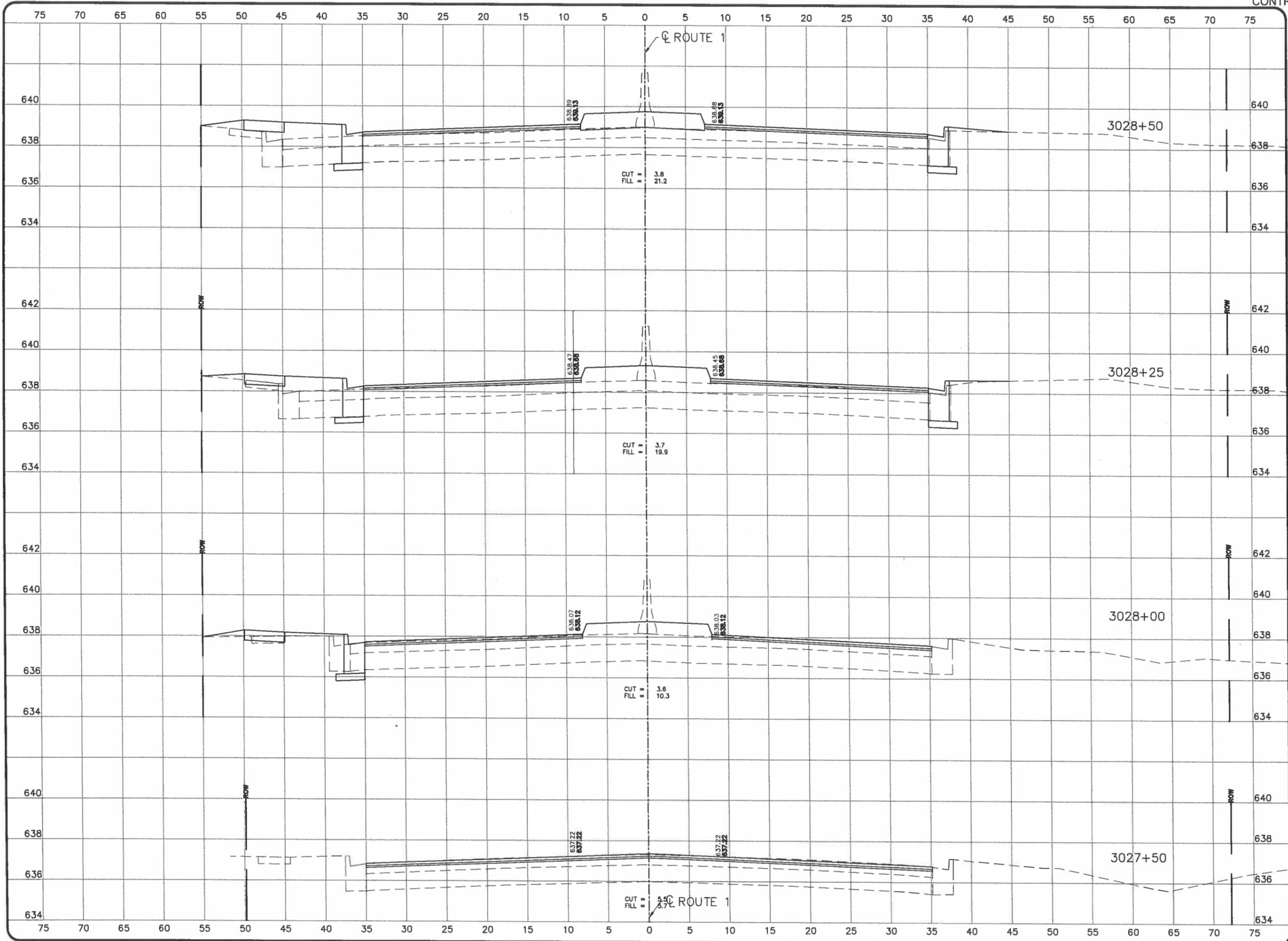
CROSS SECTIONS - US 150/IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW DATE: 9/29/16
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REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
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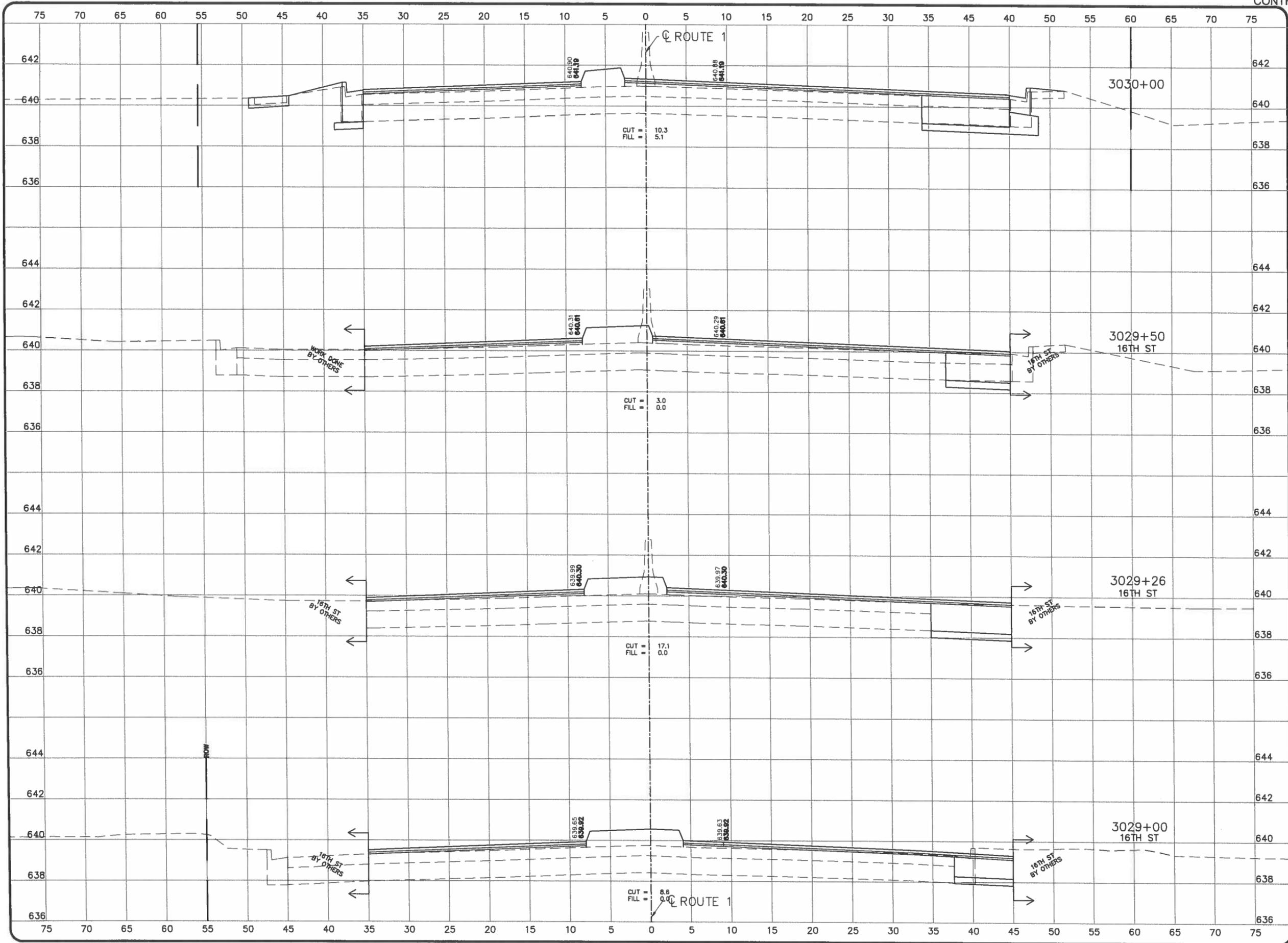


CROSS SECTIONS - US 150/IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW	DATE: 2/23/17
DESIGN BY: JOW	DATE: 2/23/17
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APPROV BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
 14TIL009
 61
 SHEET 61 OF 73



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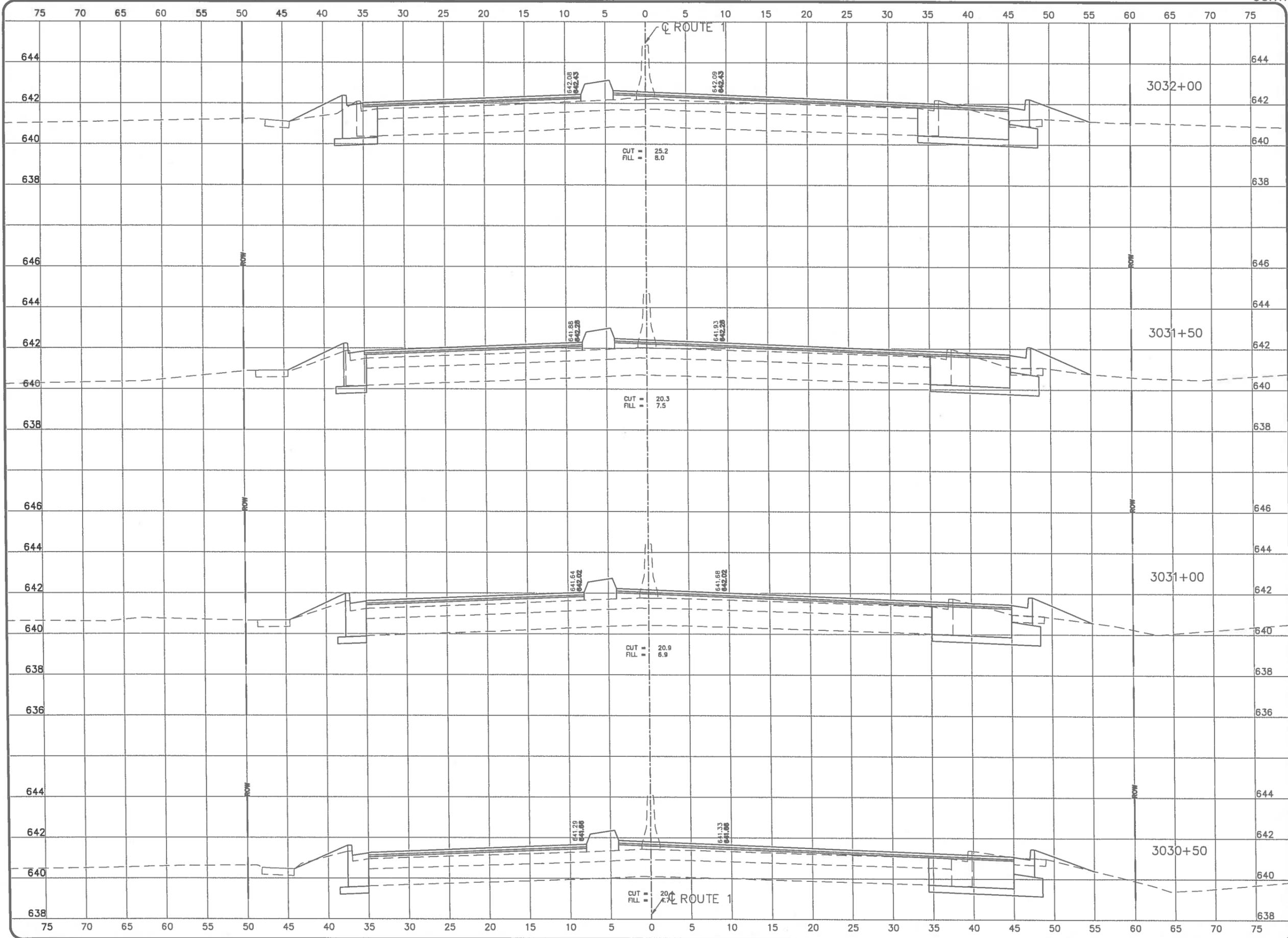


CROSS SECTIONS - US 150/L RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JOW	DATE: 2/23/17
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APPROV BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009



Phoenix Consulting Engineers, Ltd.
 Professional Design Firm No. 184.005835
 421 E. Main Street • Mahomet, IL 61853
 Ph: 217-586-1803 • Fax: 217-586-6757

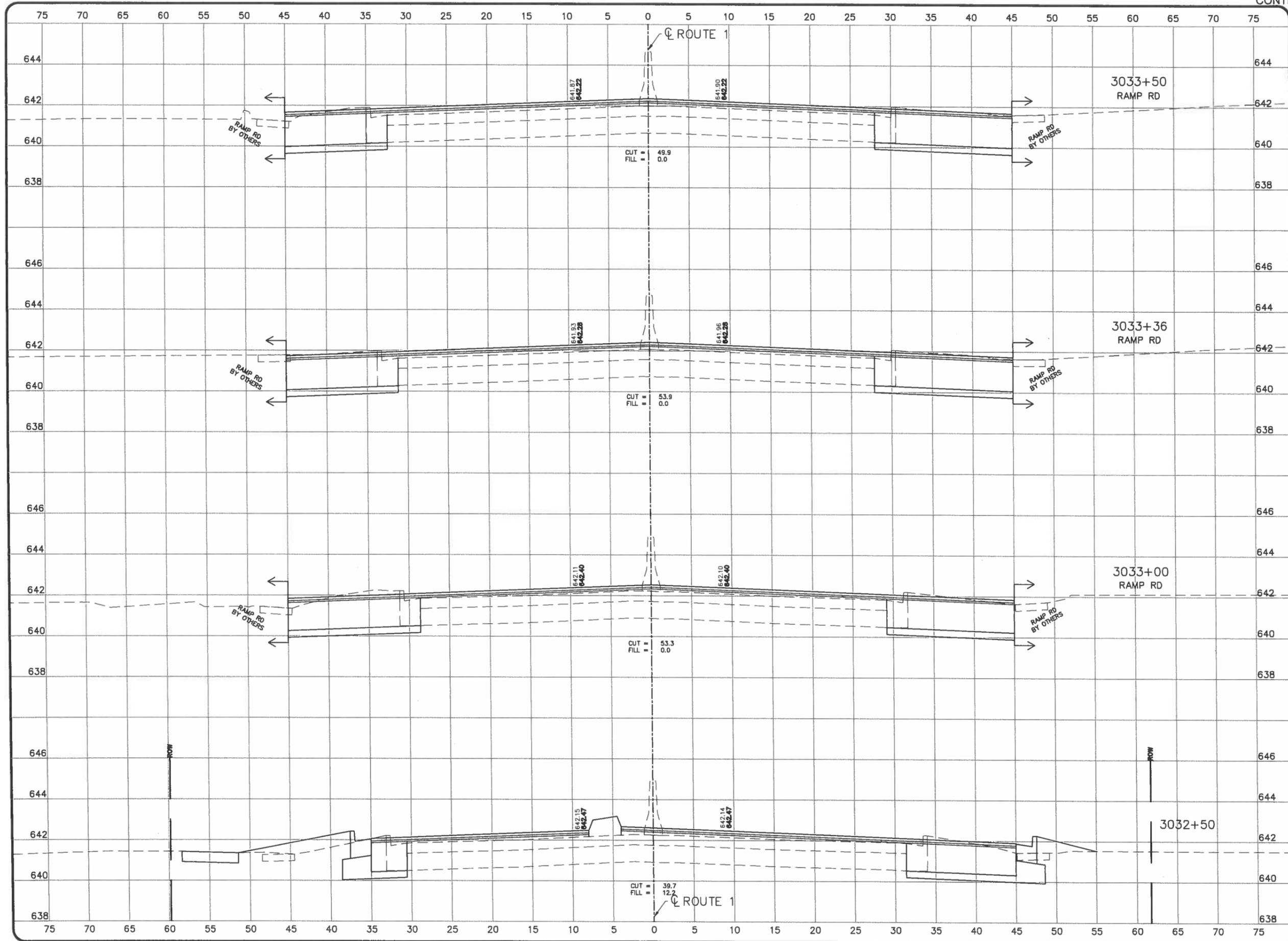


CROSS SECTIONS - US 150/IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JW	DATE: 2/23/17
DESIGN BY: JW	DATE: 2/23/17
CHECKED BY: BWS	DATE: 2/23/17
APPVD BY: TLO	DATE: 2/23/17

NO.	DATE	BY	DESCRIPTION

PROJECT NO.
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CROSS SECTIONS - US 150/IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

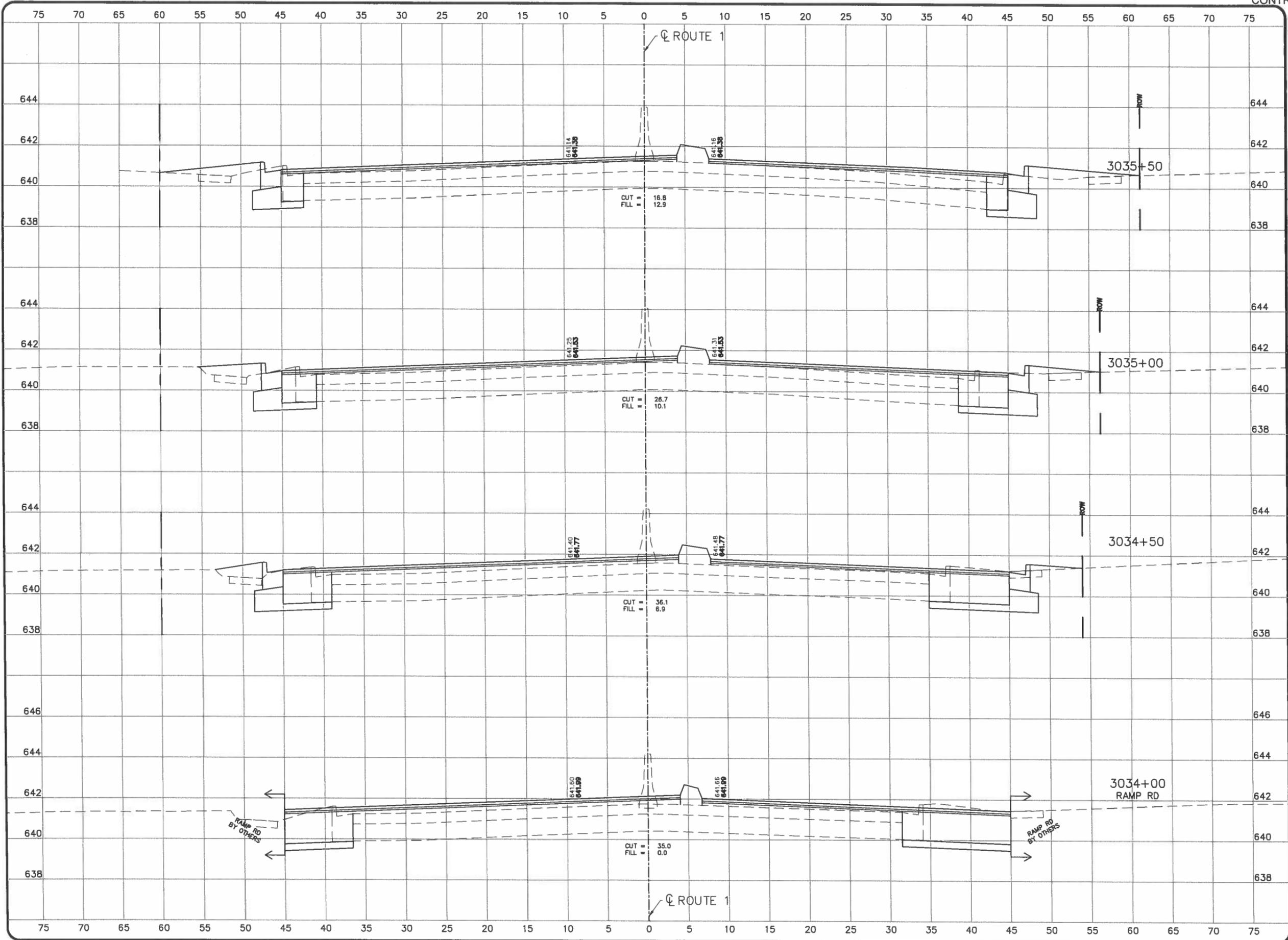
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NO.	DATE	BY	DESCRIPTION

PROJECT NO.
14TIL009

64

SHEET 64 OF 73



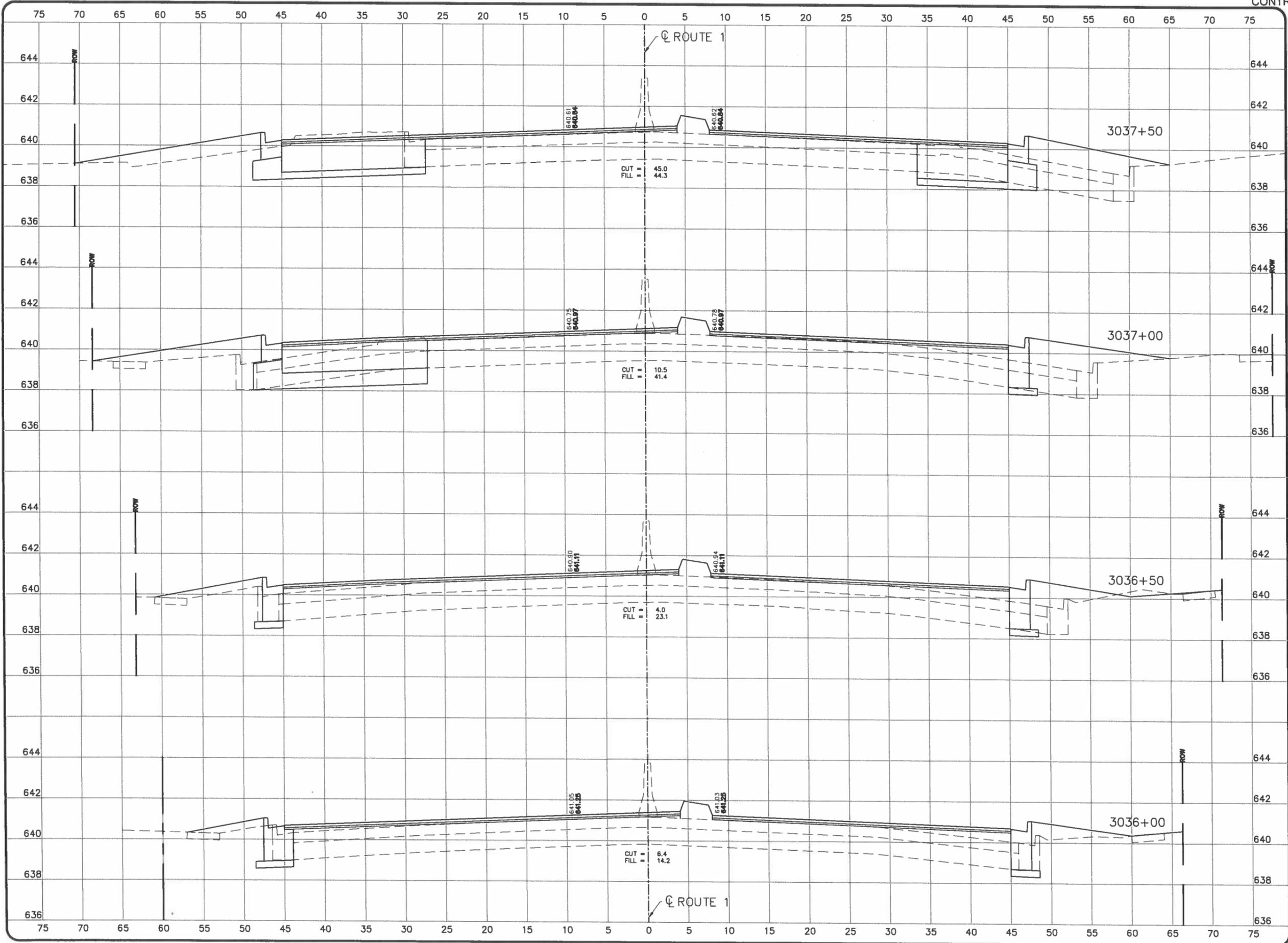
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CROSS SECTIONS - US 150/IL RTE 1
 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

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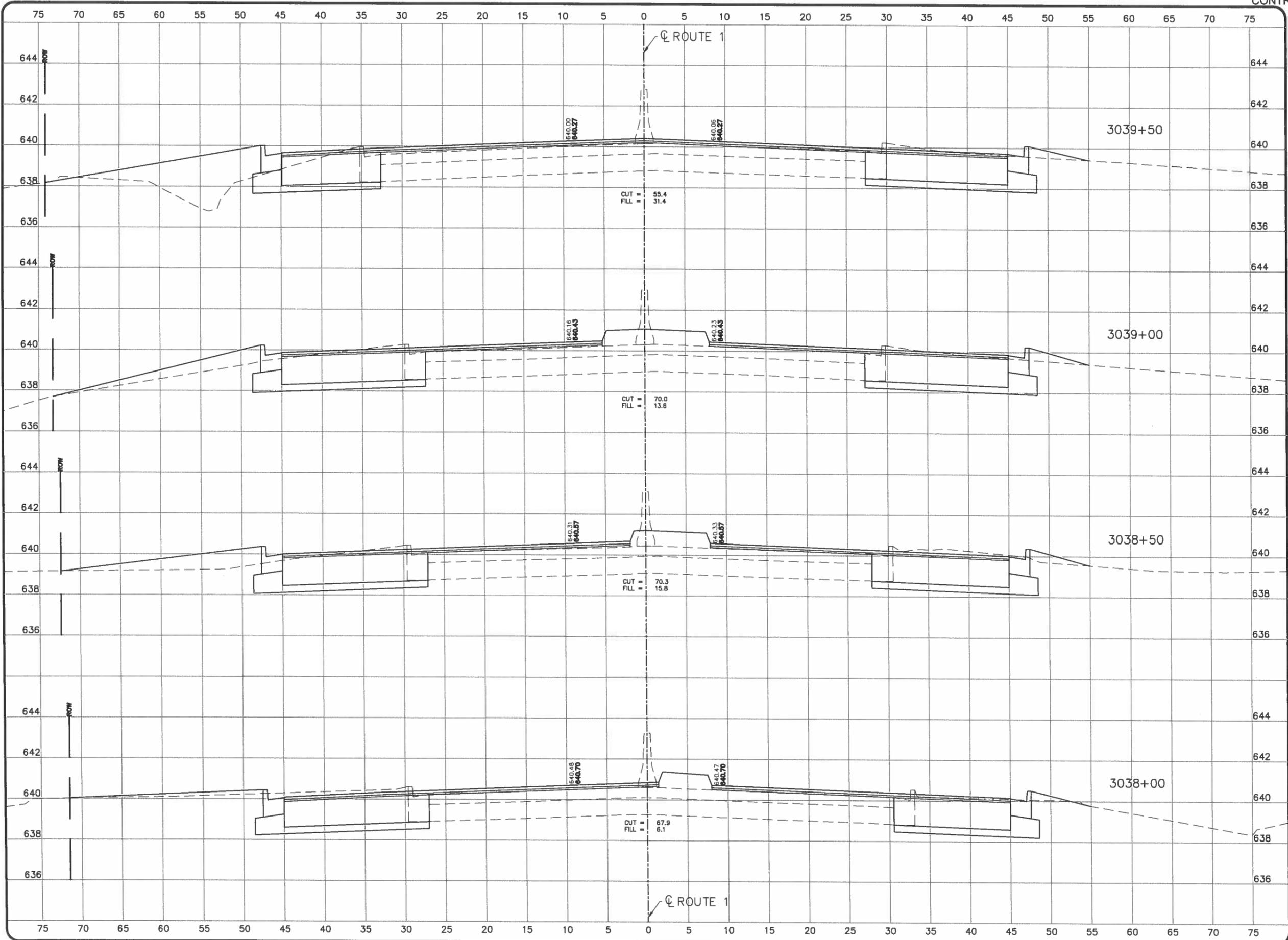


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 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

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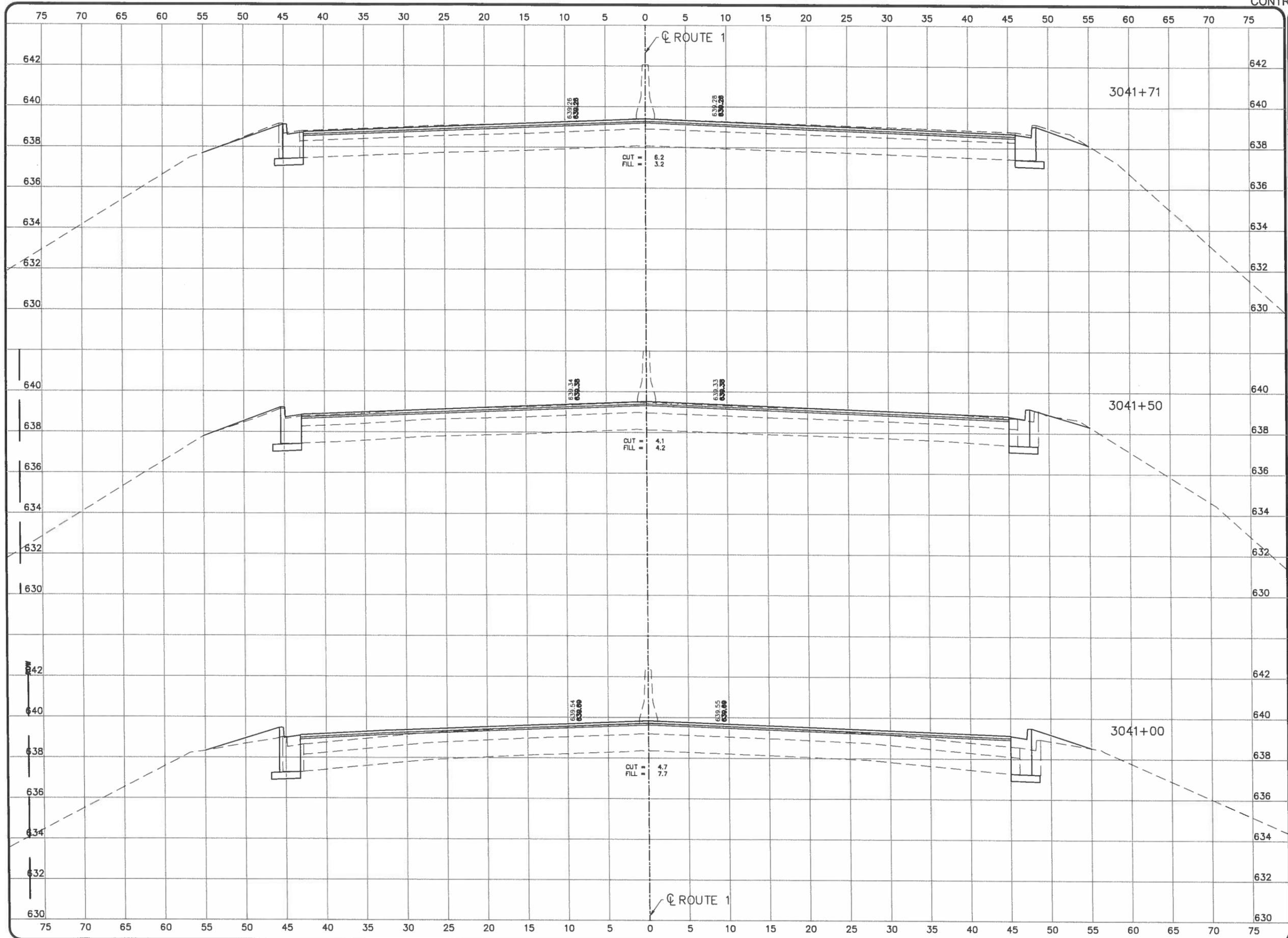


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 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

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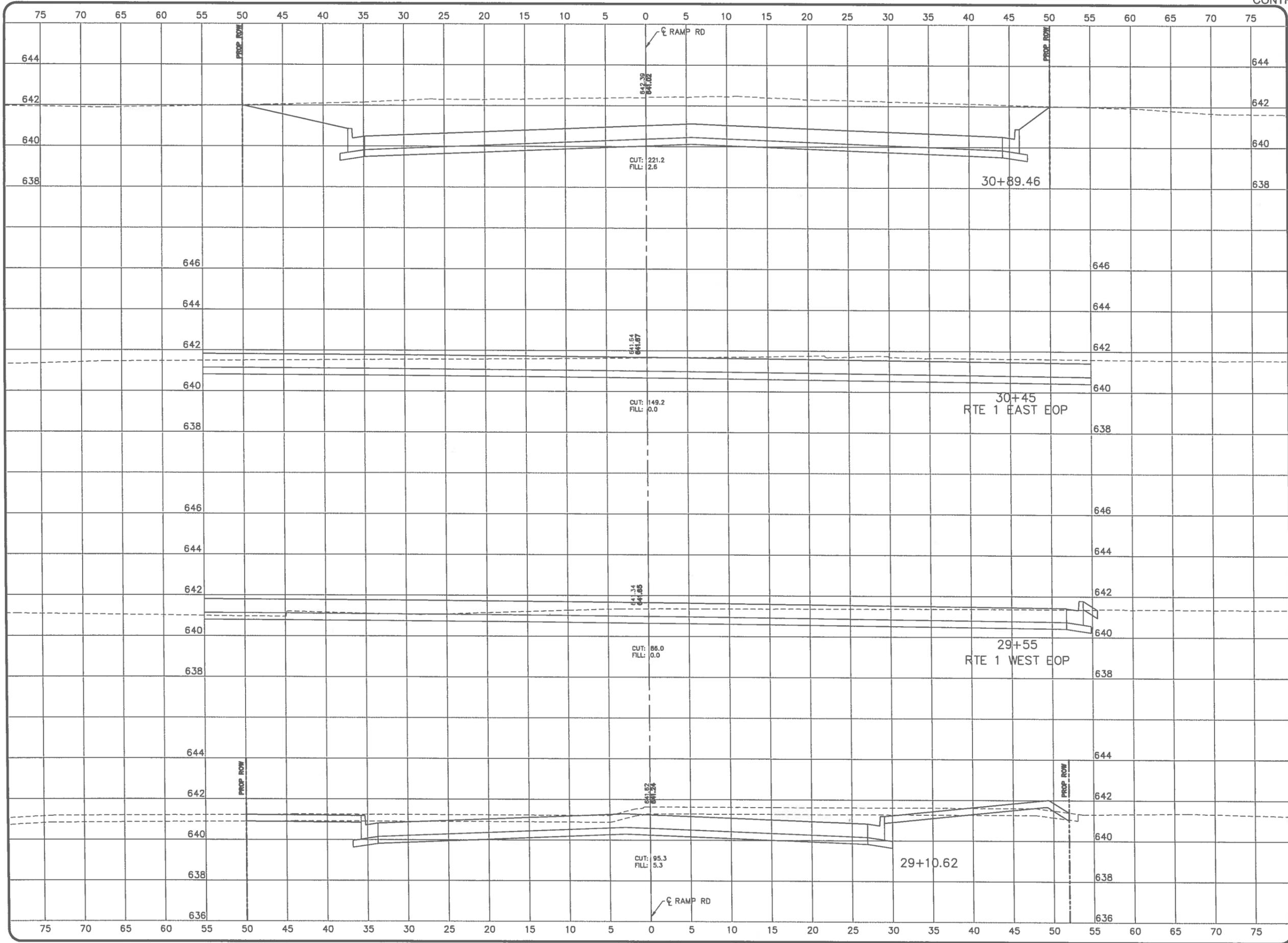


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 TILTON CORRIDOR IMPROVEMENTS
 VILLAGE OF TILTON
 VERMILION COUNTY, ILLINOIS

DRAWN BY: JDW DATE: 2/23/17
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 APPVD BY: TLO DATE: 2/23/17

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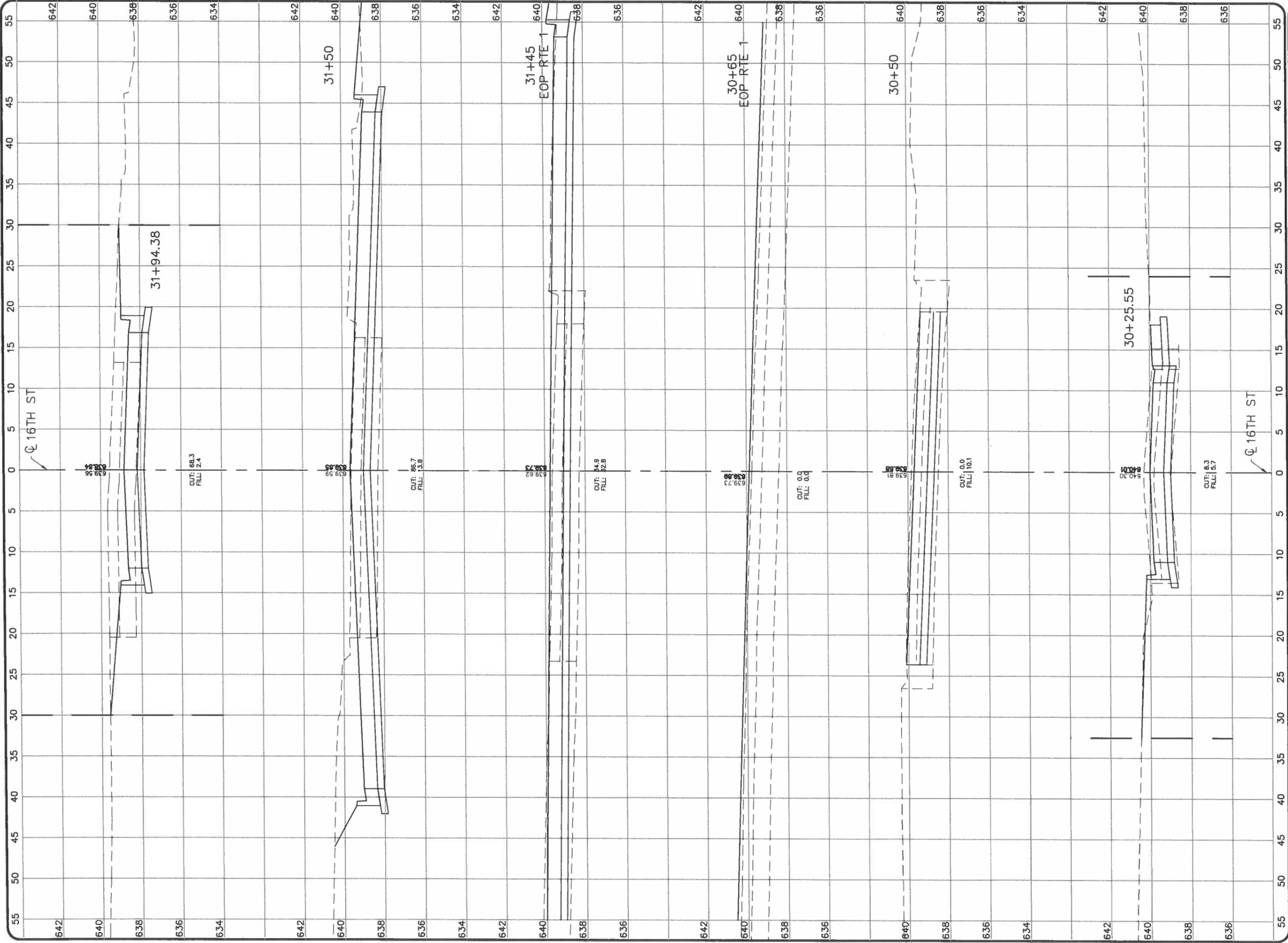
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TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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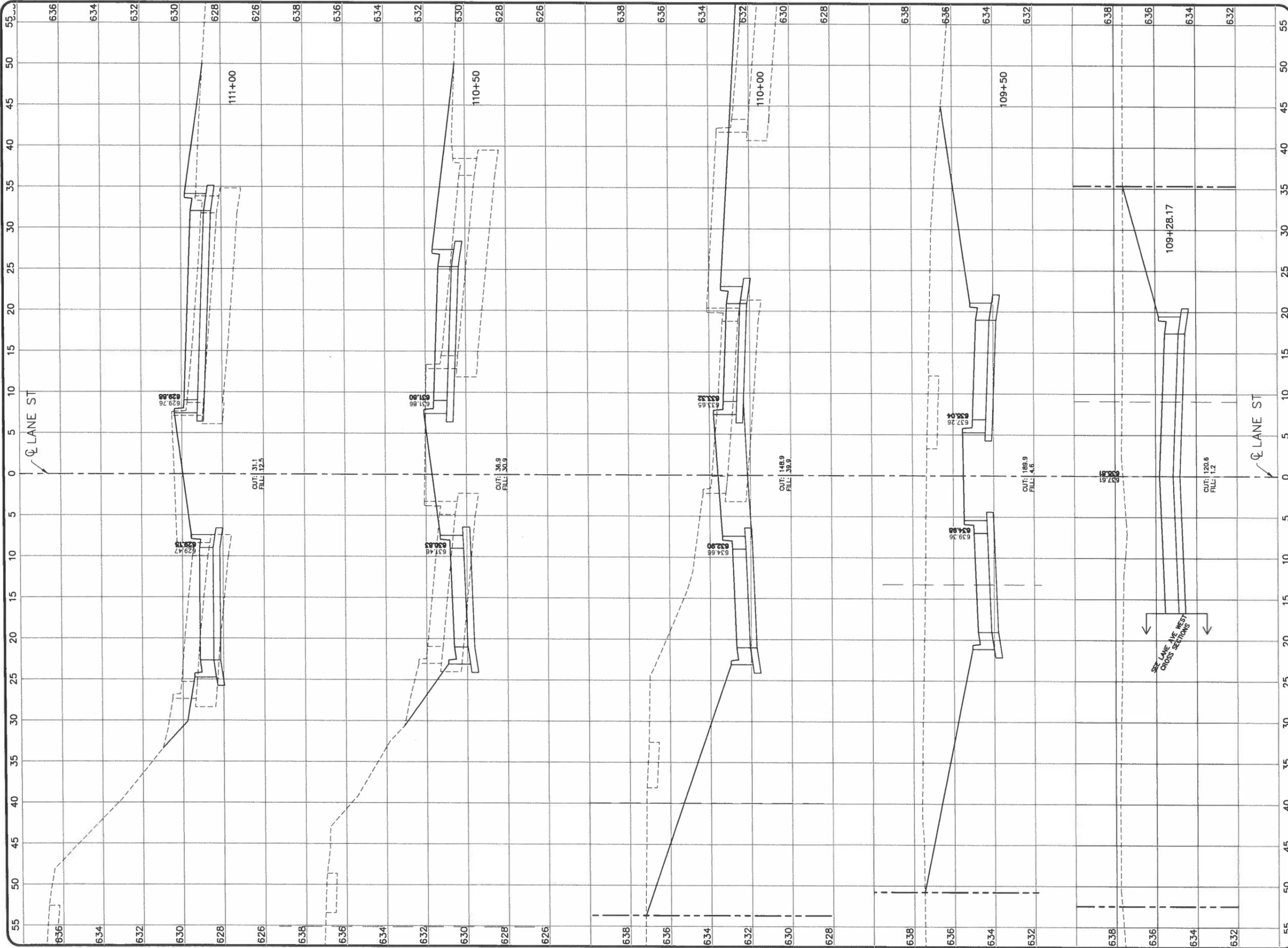
PROJECT NO.
 14TIL009

CONTRACT #91562



 <p style="font-size: small; margin: 0;">Phoenix Consulting Engineers, Ltd. Professional Design Firm No. 184.005835 421 E. Main Street • Mahomet, IL 61853 Ph 217-586-1803 • Fax 217-586-6757</p>																									
<p>CROSS SECTIONS - 16TH ST</p> <p>TILTON CORRIDOR IMPROVEMENTS VILLAGE OF TILTON VERMILION COUNTY, ILLINOIS</p>																									
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NO.	DATE	BY	DESCRIPTION																						
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<p>PROJECT NO. 14TIL009</p> <p>71 SHEET 71 OF 73</p>																									

CONTRACT #91562



REVISIONS		DRAWN BY: JOW	
NO.	DATE	BY	DATE
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2	3/28/17	JOW	2/23/17

DESIGN		CHECKED		APPROVED	
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2	3/28/17	JOW	2/23/17		

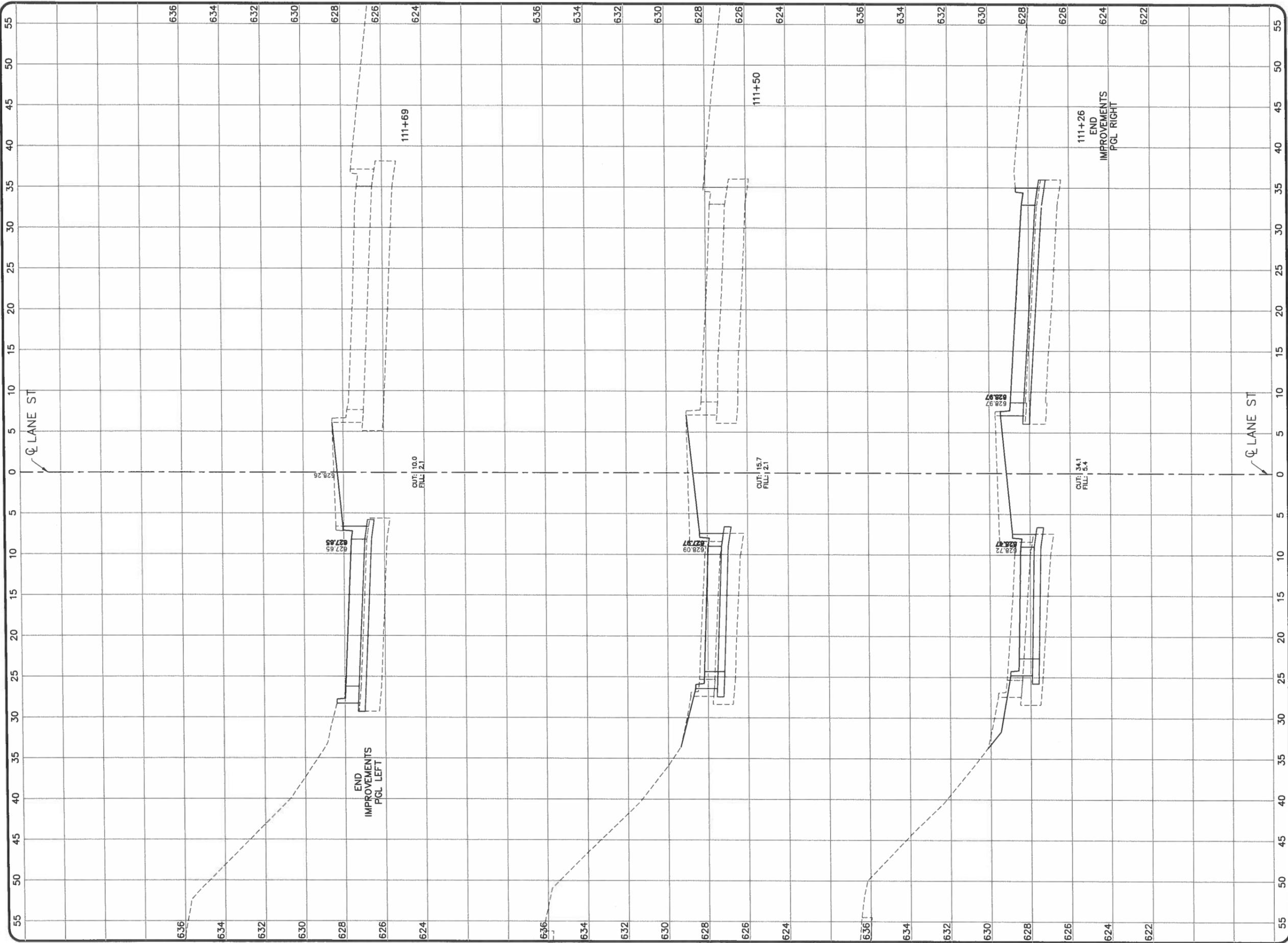
PROJECT NO.	14TIL009
SHEET	72 OF 73

CROSS SECTIONS - LANE ST

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

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CONTRACT #91562



CROSS SECTIONS - LANE ST

TILTON CORRIDOR IMPROVEMENTS
VILLAGE OF TILTON
VERMILION COUNTY, ILLINOIS

REVISIONS	
NO.	DATE
1	1/11
2	3/28/17

DESIGN BY: JOW	DATE: 2/23/17
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PROJECT NO.
14TIL009

73
SHEET 73 OF 73

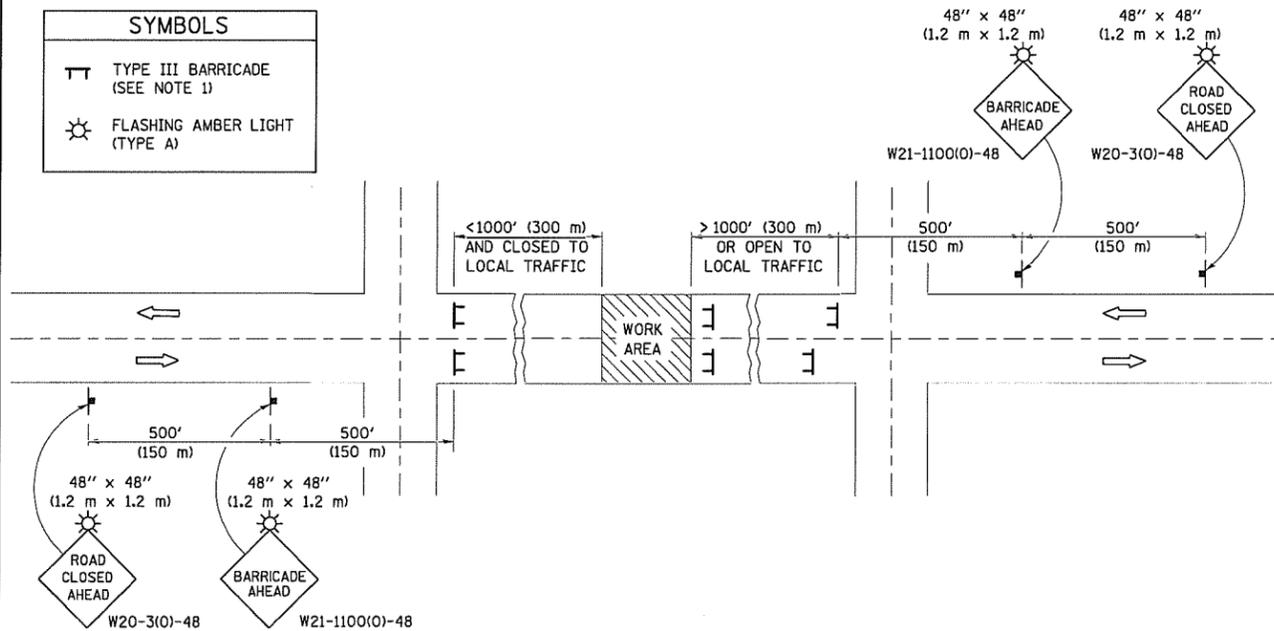


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ROAD CLOSURE

SIDEROAD / STREET CLOSURE

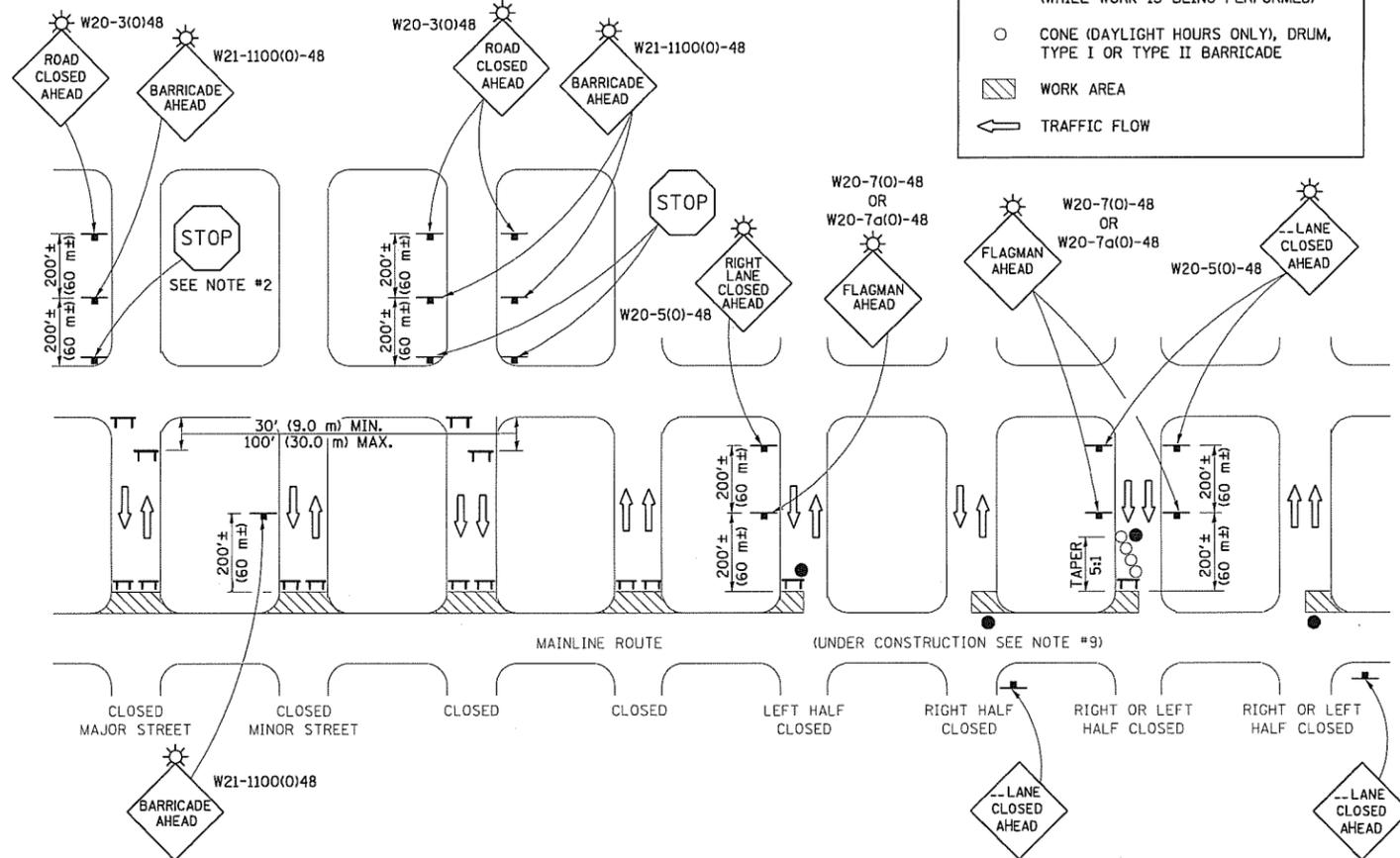
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7020000

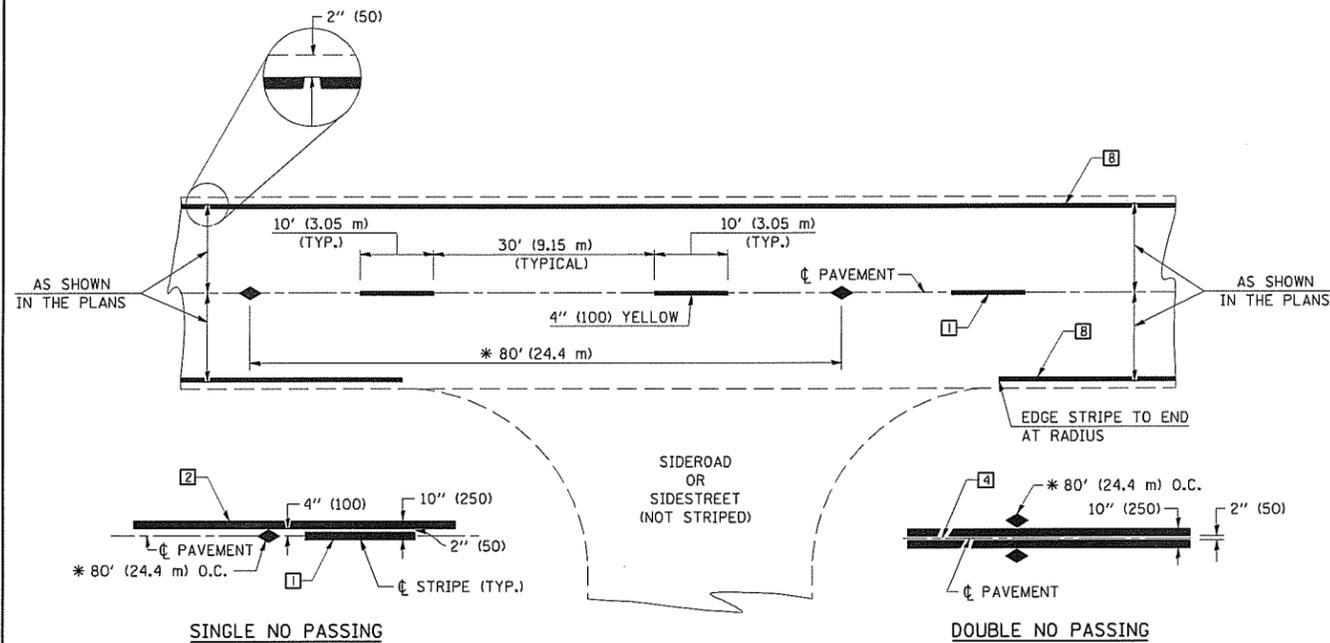
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD/STREET CLOSURES)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	15-00033-02-PV		78	74
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 91562	

SCALE: SHEET NO. OF SHEETS STA. TO STA.



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

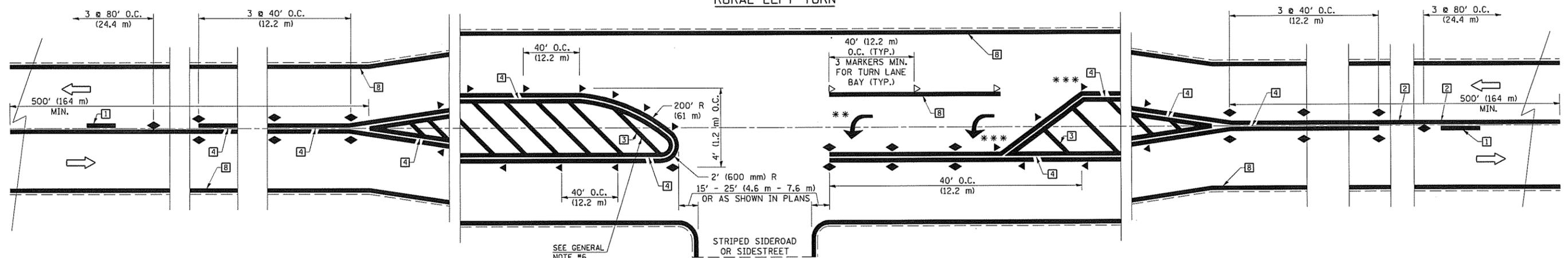
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

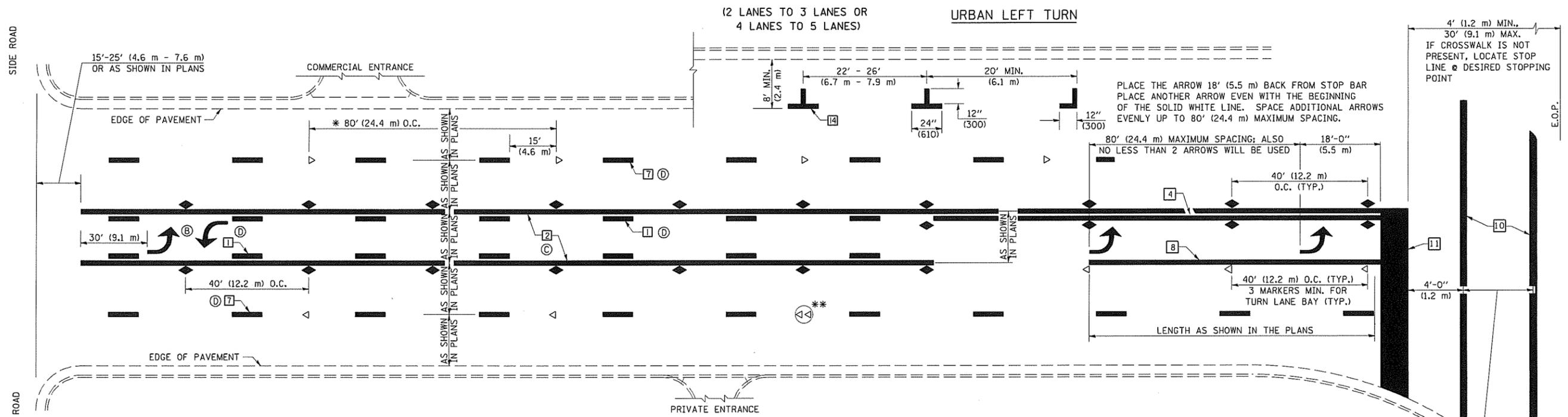
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	PLOT DATE = 9/8/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	75
			CONTRACT NO. 91562	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

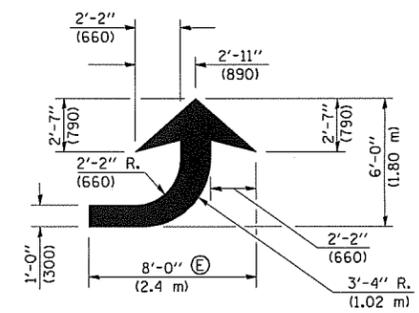


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

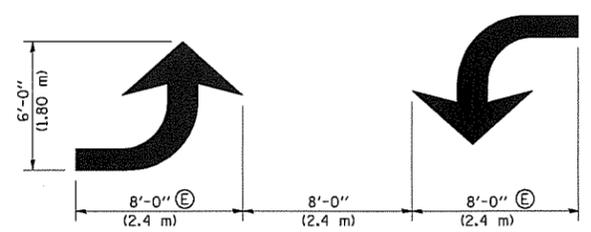
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

GENERAL NOTES:

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

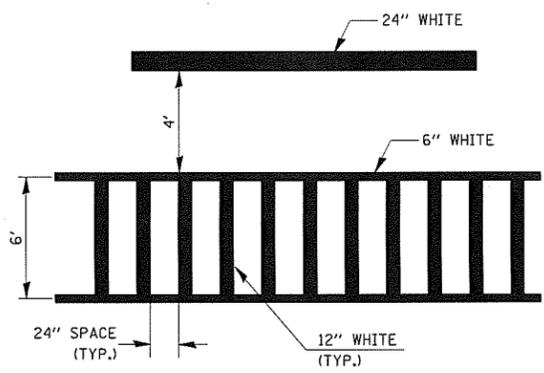


LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

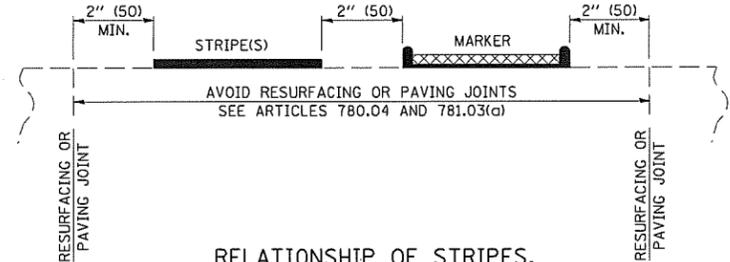


TYPICAL DOUBLE TURN ARROWS (WHITE)

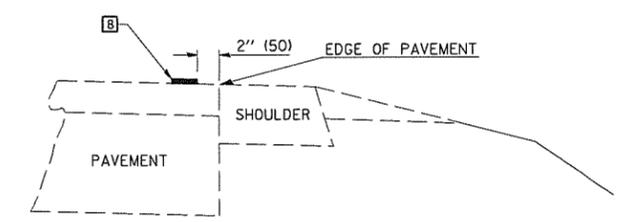
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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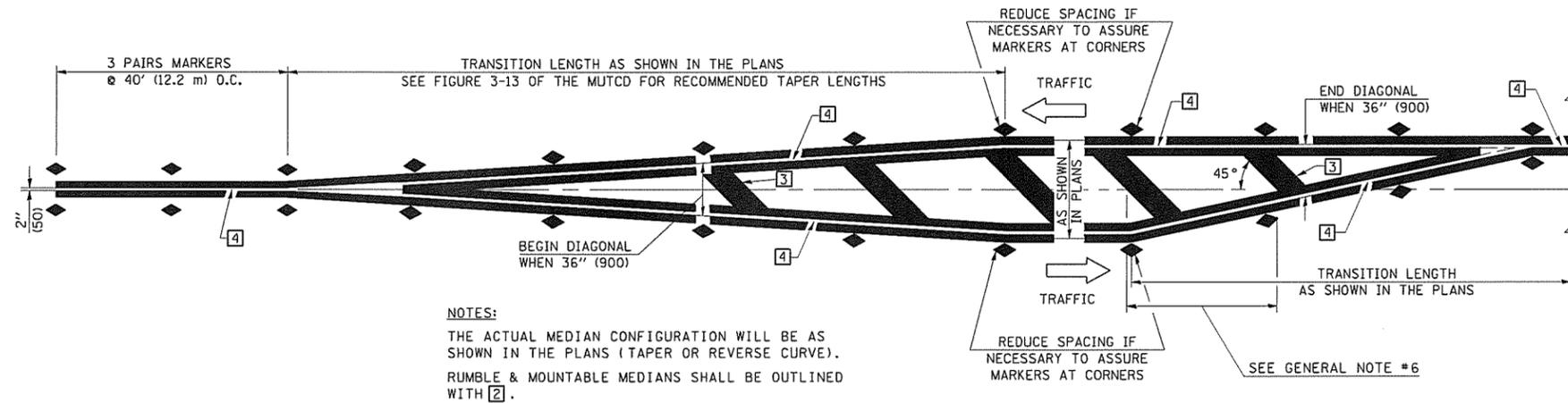
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	76
CONTRACT NO. 91502			ILLINOIS FED. AID PROJECT	

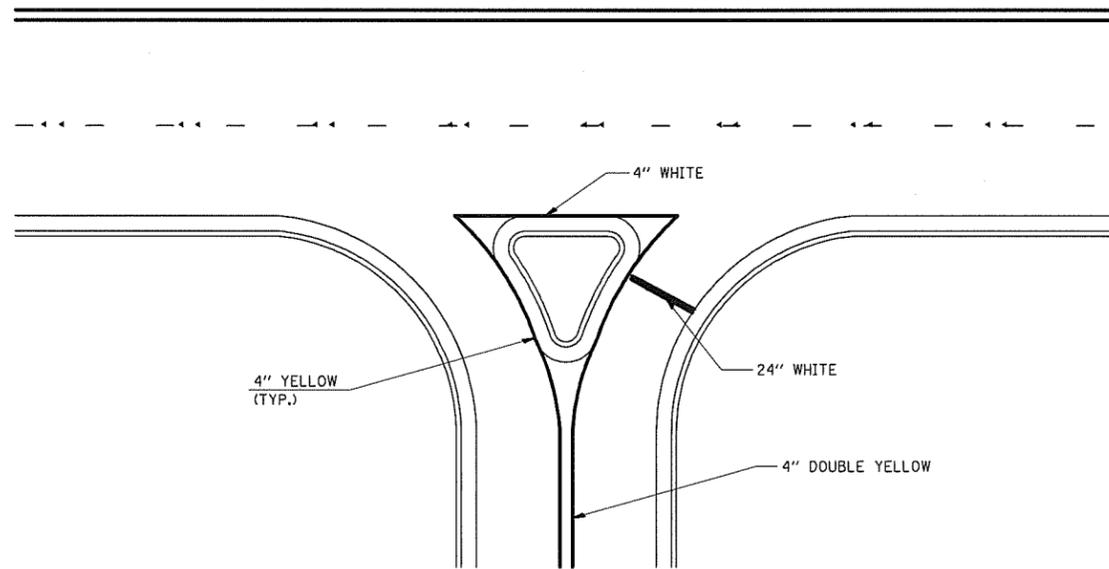


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

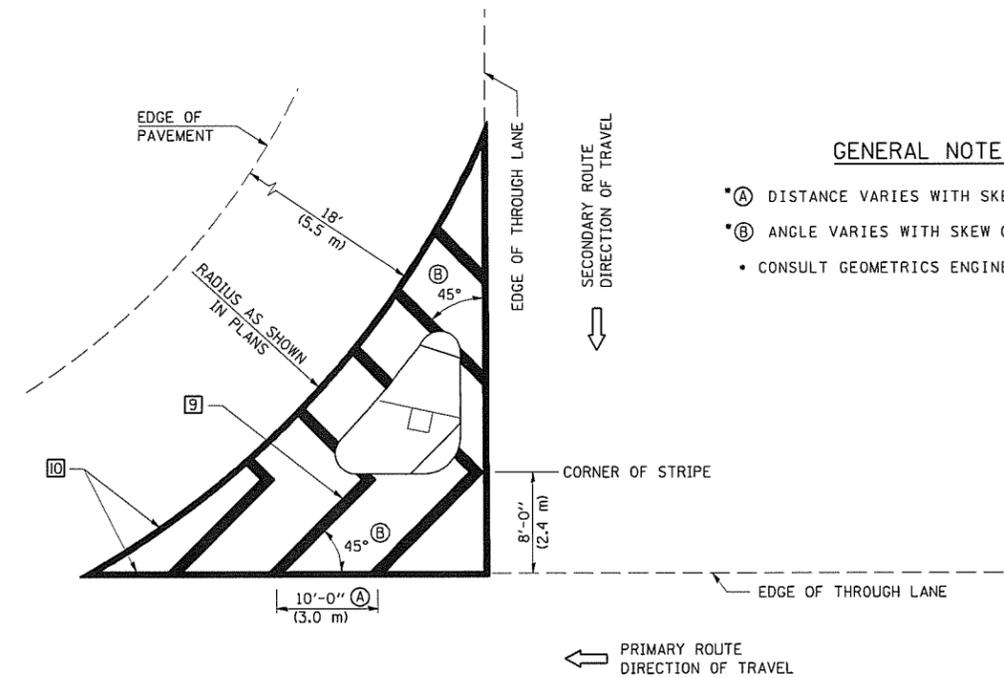
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

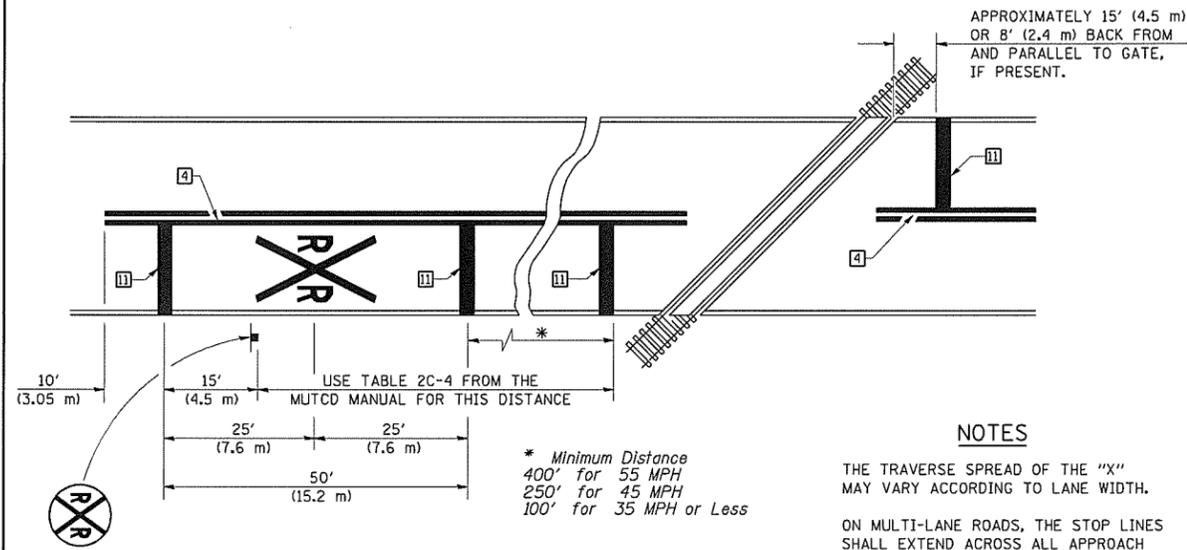
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	PLOT DATE = 9/8/2009	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	77
CONTRACT NO. 9/15/02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

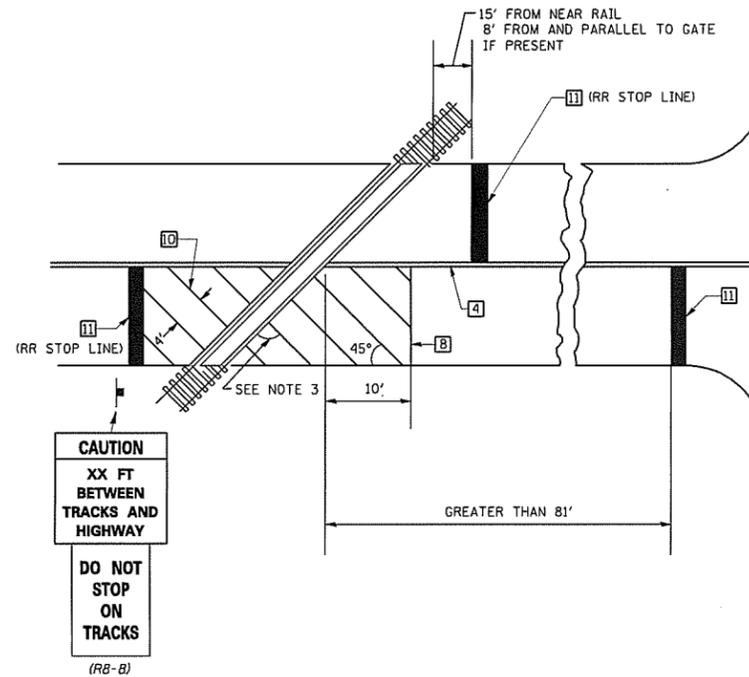
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXX SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

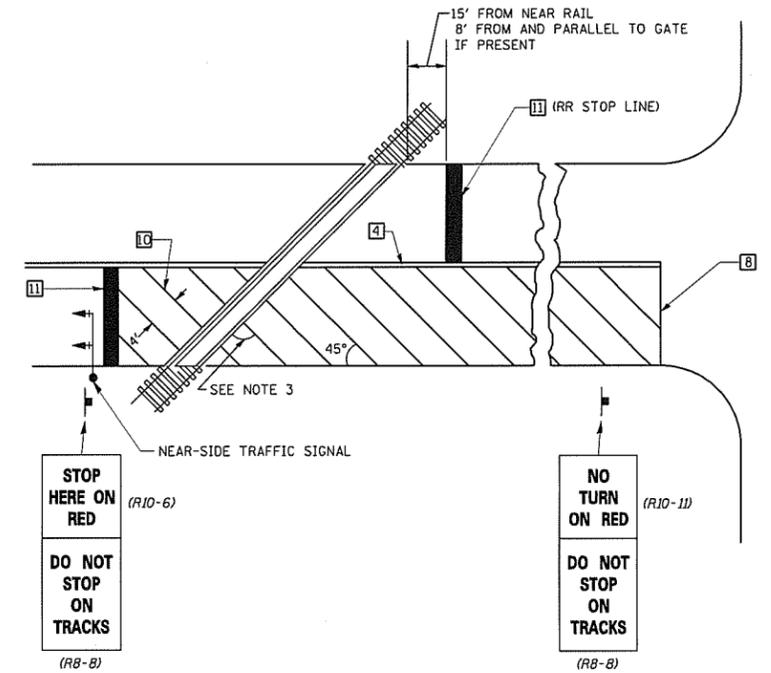
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

* Minimum Distance
 400' for 55 MPH
 250' for 45 MPH
 100' for 35 MPH or Less

RAILROAD CROSSING WITH INTERCONNECT ONLY



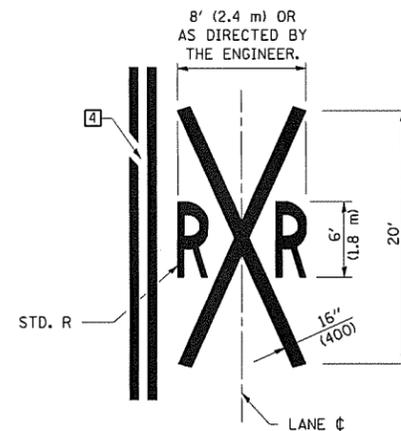
RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED - 11/06
c:\pwork\PW10DOT\CRAIGRE\10101509\7800	paas.dgn	DRAWN -	REVISED - 09/2009 - KJT
	PLOT SCALE = 40.0000 1/ IN.	CHECKED -	REVISED -
	PLOT DATE = 9/8/2009	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			78	78
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 91562	