

06-10-2016 LETTING ITEM 180

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 559+47.2 TO		STA: 565+50
ILLINOIS		PROJECT: RS-0614(108)

Sheet 1 of 12

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

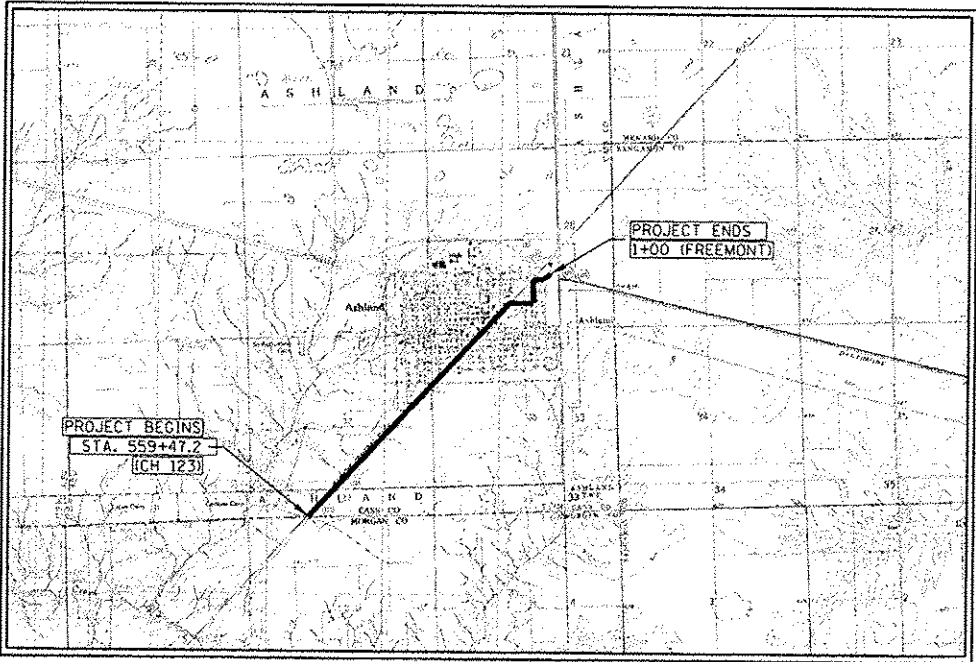
PROPOSED PLANS FOR
SURFACE TRANSPORTATION / RURAL PROGRAM
STR, SMA, AND TARP
CH123 (FAS 614)
SECTION 13-00078-00-RS
PROJECT RS-0614 (108)
CASS COUNTY
JOB NUMBER C-96-219-16

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES / SUMMARY OF QUANTITIES
- 3 TYPICAL SECTIONS
- 4-12 PLAN SHEETS

LIST OF STANDARDS

- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATION DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY
- 701901-04 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- BLR 24-2 MAILBOX TURNOUTS FOR LOCAL ROADS
- 701501-06 LANE CLOSURE IN URBAN



DESCRIPTION OF WORK

THIS PROJECT CONSISTS OF MILLING AND
OVERLAY THICKNESS 3" OF HMA.
ALSO INCLUDED WILL BE AGGREGATE
WEDGE (TYPE B) SHOULDER, SIDEROAD/ENTRANCE
IMPROVEMENTS AND PAVEMENT MARKING.

LOCATION MAP

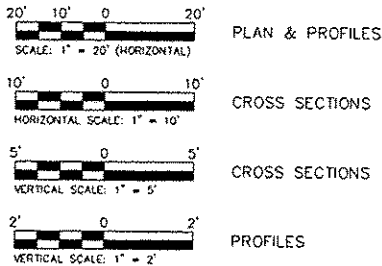
NET LENGTH OF IMPROVEMENT = 10802 L.F. = ± 2.046 MS

1/2 MILE 0 1/2 MILE

SCALE: 1" = 1/4 MILE

(APPROXIMATE SCALE: 1" = 2640')

DESIGN SPEED: 55 M.P.H.



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.

APPROVED	4-7-2016
<i>Timothy L. Icenogle</i>	
CASS COUNTY ENGINEER	
PASSED	April 11, 2016
<i>Jeffrey M. South</i>	
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS	
PASSED	April 11, 2016
<i>Ron Buchanan</i>	
DISTRICT SIX ENGINEER OF CONSTRUCTION	
RELEASING FOR BID BASED ON LIMITED REVIEW	April 11, 2016
<i>Jeffrey M. South</i>	
JEFFREY M. SOUTH P.E., REGION FOUR ENGINEER	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

THESE PLANS WERE PREPARED BY MYSELF OR PERSONS WORKING UNDER
MY PERSONAL SUPERVISION.

Timothy L. Icenogle 4-7-2016
TIMOTHY L. ICENOGL, P.E.
CASS COUNTY ENGINEER
DATE



EXP 11-30-2017

GENERAL NOTES

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY IDOT, ADOPTED APRIL 1, 2016, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PREVISIONS," CURRENT EDITION, AND THE "STANDARD PROVISIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," CURRENT EDITION.

IN THE CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION ISSUED BY ILLINOIS DEPARTMENT OF TRANSPORTATION OR THE COPY OF THE STANDARD INCLUDED IN THESE CONSTRUCTION DOCUMENTS AS DETERMINED BY THE ENGINEER.

THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS OR MATERIAL PLACEMENT SO THAT A REPRESENTATIVE MAY BE PRESENT DURING ANY TESTING PROCEDURE OR MATERIAL PLACEMENT.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES. THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SUCH REQUESTS.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY AREAS DAMAGED OR DESTROYED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTING OPERATIONS SHALL BE RESTORED TO THAT CONDITION OR BETTER WHICH EXISTED PRIOR TO STARTING CONSTRUCTION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT THE CONTRACTOR SHALL PRESENT THE OWNER WITH A SIGNOFF LETTER," SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED PROPERTY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.

THE EXISTING SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGH THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.

Code Number	Item	Unit of Measure	Quantity
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	23,000
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	2,650
40600990	TEMPORARY RAMP	SQ YD	50
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	3,100
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	32,125
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	400
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7,500
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	24,096
78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	24,096
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	125
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1

Δ SPECIALTY ITEMS

STATION TO STATION		BITUMINOUS MATERIALS (TACK COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
		POUND	TON	
1+00.00	6+59.16	1,089	140	140
559+47.20	609+50.00	9,005	1,151	1,151
609+50.00	611+00.00	281	36	36
611+00.00	661+90.53	9,927	1,268	1,268
ENTRANCES & SIDEROADS		1,381	0	300
MAILBOX TURNOUTS & MISC		920	0	200
TOTALS		22,603	2,595	3,095
USE		23,000	2,650	3,100

STATION TO STATION		SIDE	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING	
				LINE 5"	
				YELLOW	WHITE
COUNTY HIGHWAY 123					
1+00.00	6+59.00	LT/RT	EDGE LINES		1,118
1+00.00	6+59.00	CL	SKIP DASH	140	
559+50.00	661+00.00	CL	SKIP DASH	2,538	
559+50.00	661+00.00	LT/RT	EDGE LINES		20,300
TOTAL				2,678	21,418

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

SUBGRADES, SUBBASES, AND BASE COURSES
THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT.

PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE IN THE PRESENCE OF THE ENGINEER TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF HOT MIX ASPHALT SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL.

THE ENGINEER SHALL WITNESS THE PLACEMENT OF HOT MIX ASPHALT BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS.

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA. TO STA.		
ILLINOIS PROJECT: RS-0614(108)		

ENTRANCE SCHEDULE			
STATION	ENTRANCE TYPE	SIDE	(SY)
597+35	MINOR INTERSECTION	LT	62
611+77	MINOR INTERSECTION	RT	81
615+03	MINOR INTERSECTION	LT	69
615+06	P.E.	RT	50
619+68	MINOR INTERSECTION	RT	67
623+20	MINOR INTERSECTION	RT	62
623+99	P.E.	LT	46
624+18	MINOR INTERSECTION	RT	59
627+75	MINOR INTERSECTION	RT	47
627+90	MINOR INTERSECTION	LT	58
628+46	MINOR INTERSECTION	RT	61
632+23	MINOR INTERSECTION	RT	66
632+34	MINOR INTERSECTION	LT	56
632+88	MINOR INTERSECTION	LT	56
632+99	MINOR INTERSECTION	RT	67
636+70	MINOR INTERSECTION	RT	63
636+96	MINOR INTERSECTION	LT	120
638+73	C.E.	LT	35
640+02	P.E.	RT	53
640+90	P.E.	LT	56
643+09	MINOR INTERSECTION	RT	56
646+20	MINOR INTERSECTION	RT	55
646+23	MINOR INTERSECTION	LT	42
649+16	MINOR INTERSECTION	RT	61
650+36	P.E.	LT	25
651+34	P.E.	LT	19
652+19	MINOR INTERSECTION	LT	32
652+19	MINOR INTERSECTION	RT	29
653+32	P.E.	RT	19
655+26	MINOR INTERSECTION	LT	53
655+26	MINOR INTERSECTION	RT	55
656+53	P.E.	LT	21
657+03	P.E.	RT	18
659+37	P.E.	RT	30
660+20	P.E.	LT	32
660+36	C.E.	RT	26
661+01	P.E.	LT	26
FREEMONT STREET			
2+52	MINOR INTERSECTION	LT	55
3+78	C.E.	RT	126
4+21	C.E.	LT	32

ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 123
GENERAL NOTES
SUMMARY OF QUANTITIES

DATE: 04/6/2016

DRAWN BY: LA
CHECKED BY: TI
SHEET 2 OF 12

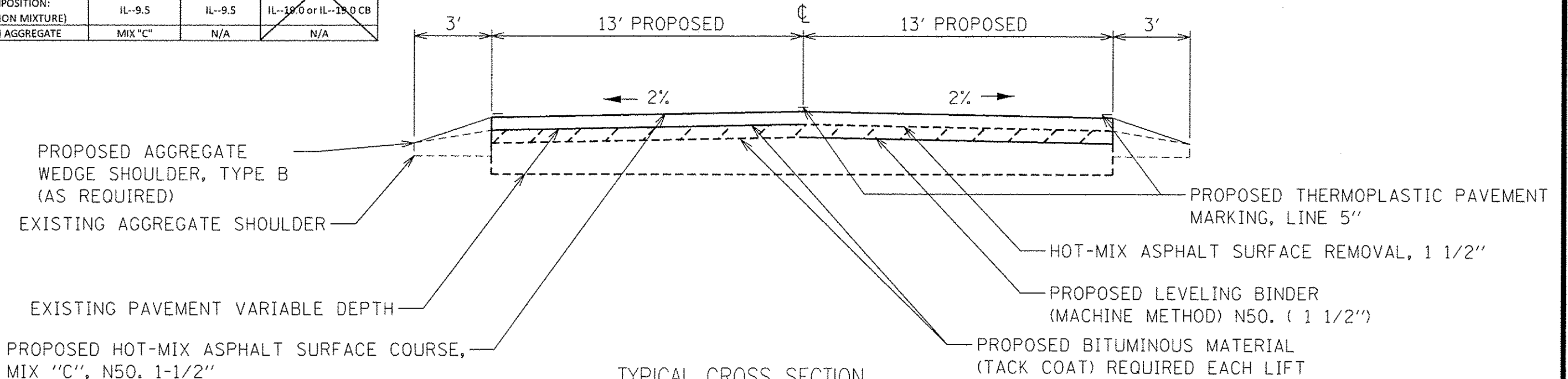
FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA.	TO STA.	
	ILLINOIS	PROJECT: RS-0614(108)

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	HMA SUR CSE	LEVELING BINDER	HMA SHOULDER
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIX COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5	IL-19.0 or IL-19.0 CB
FRICTION AGGREGATE	MIX "C"	N/A	N/A

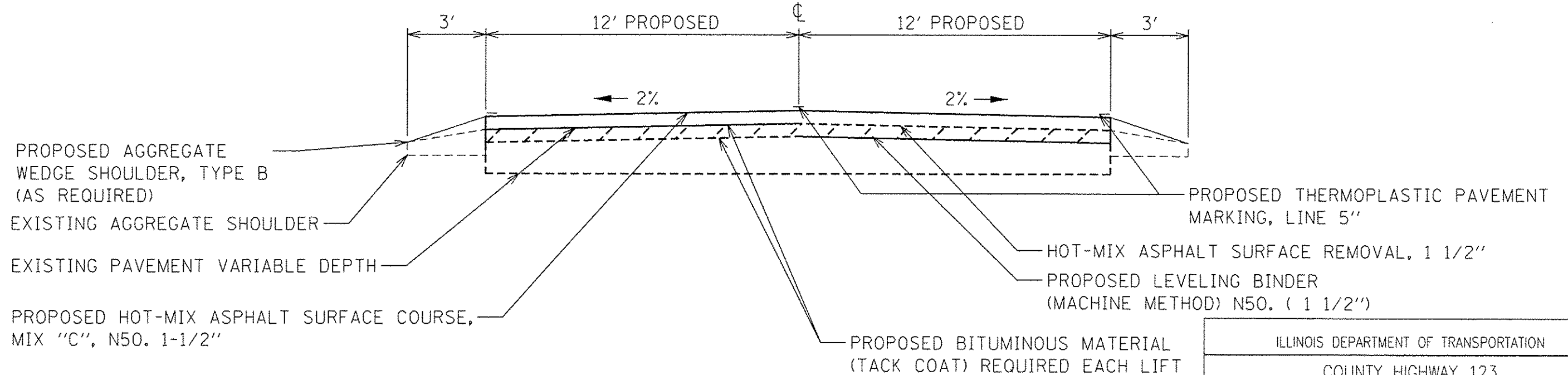
TYPICAL CROSS SECTION

STA 611+00 TO STA 661+90.53
STA 0+00 TO STA 6+59.16 (FREEMONT STREET)



TYPICAL CROSS SECTION

STA 559+47.2 TO STA 609+50



- NOTE:
1. SEE SITE PLAN FOR SECTIONS WITH VARIED WIDTHS.
 2. TRANSITION FROM 24' SECTION TO 26' SECTION BETWEEN STATIONS 609+50 TO 611+00.

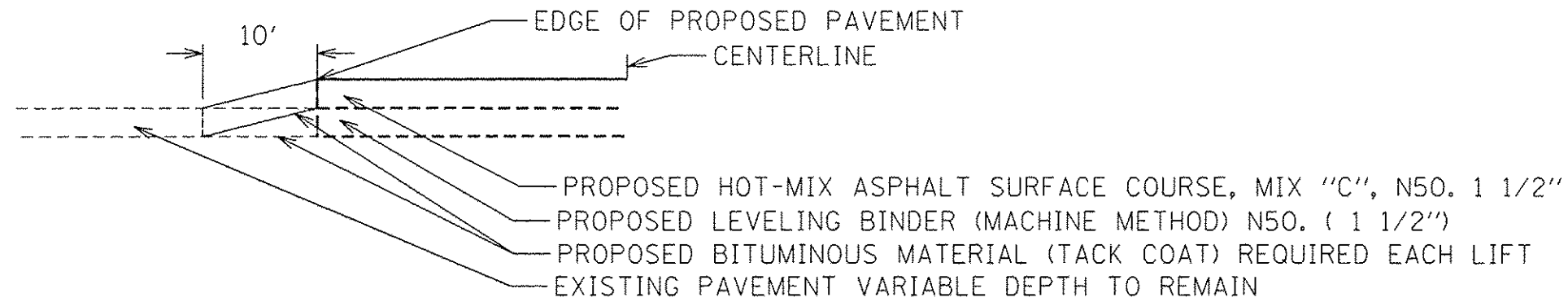
ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 123
TYPICAL SECTIONS
DETAILS

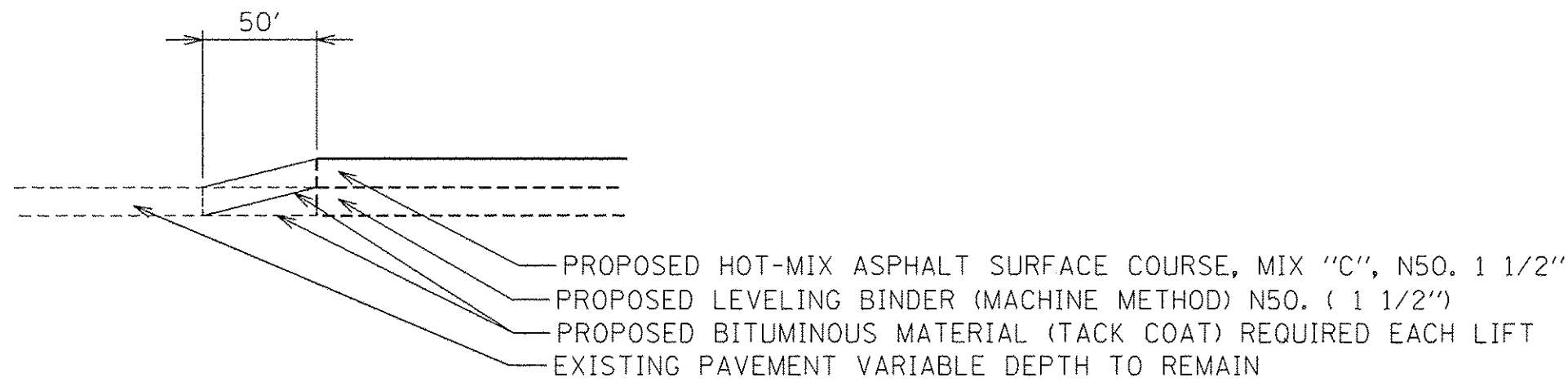
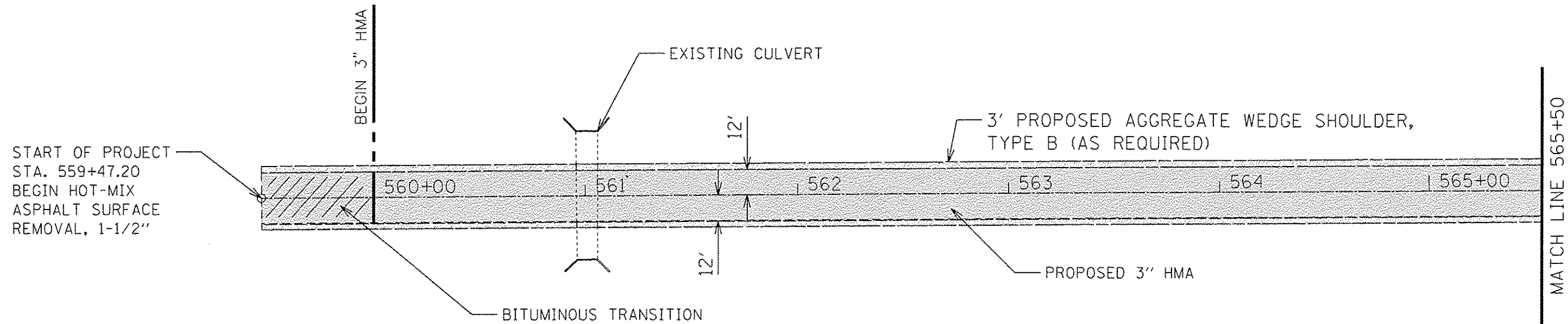
DATE: 04/6/2016

DRAWN BY: KK
CHECKED BY: TI
SHEET 3 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 559+47.2 TO		STA: 565+50
ILLINOIS		PROJECT: RS-0614(108)



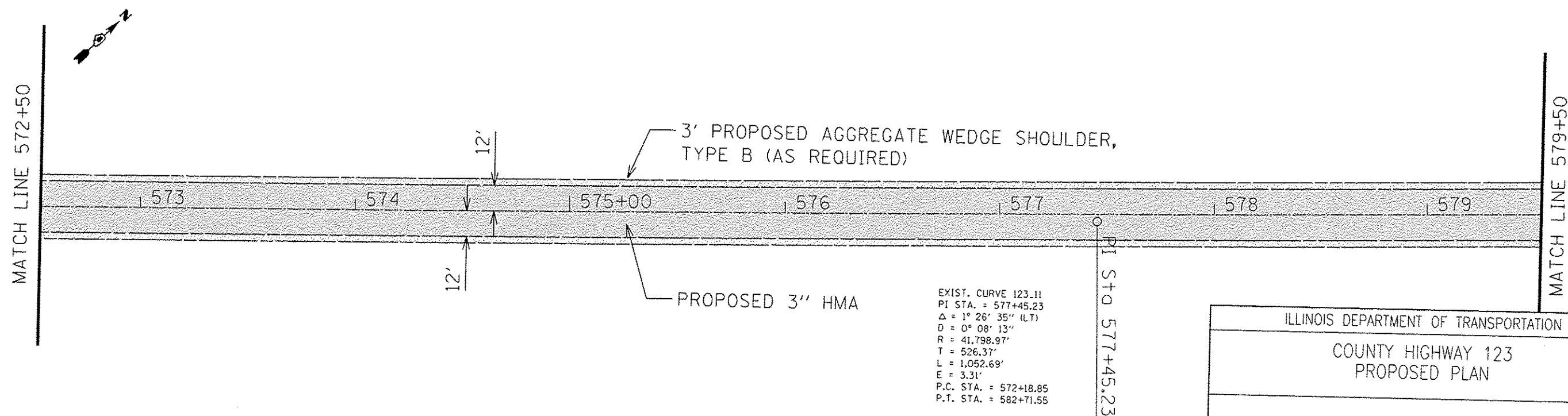
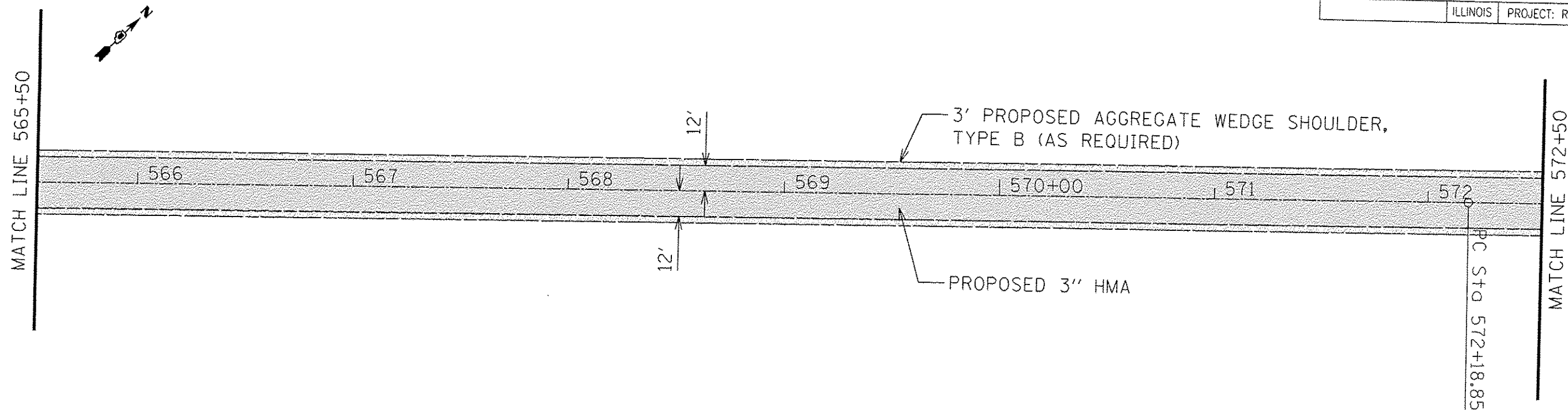
BITUMINOUS TRANSITION AT ENTRANCE
NTS



BITUMINOUS TRANSITION
NTS

ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 4 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 579+50 TO		STA: 579+50
ILLINOIS		PROJECT: RS-0614(108)



EXIST. CURVE 123.11
PI STA. = 577+45.23
 $\Delta = 1^\circ 26' 35''$ (LT)
 $D = 0^\circ 08' 13''$
 $R = 41,798.97'$
 $T = 526.37'$
 $L = 1,052.69'$
 $E = 3.31'$
P.C. STA. = 572+18.85
P.T. STA. = 582+71.55

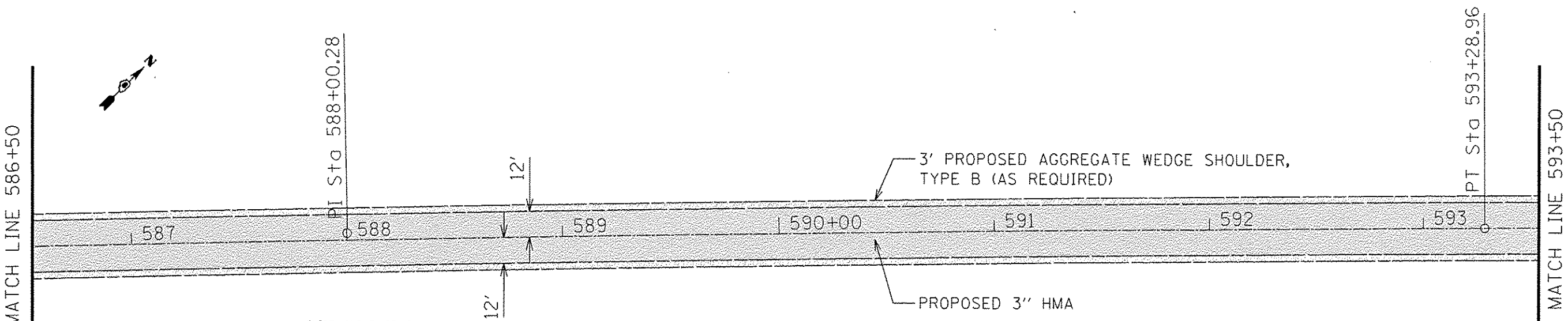
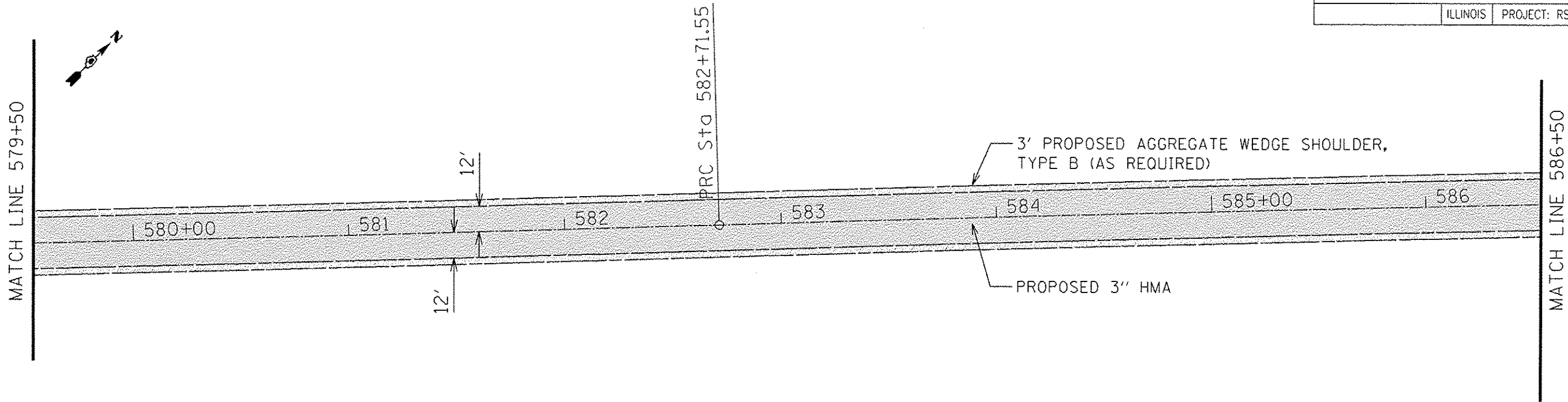
ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 123
PROPOSED PLAN

1"=50'
DATE: 04/6/2016

DRAWN BY: LA
CHECKED BY: TI
SHEET 5 OF 12

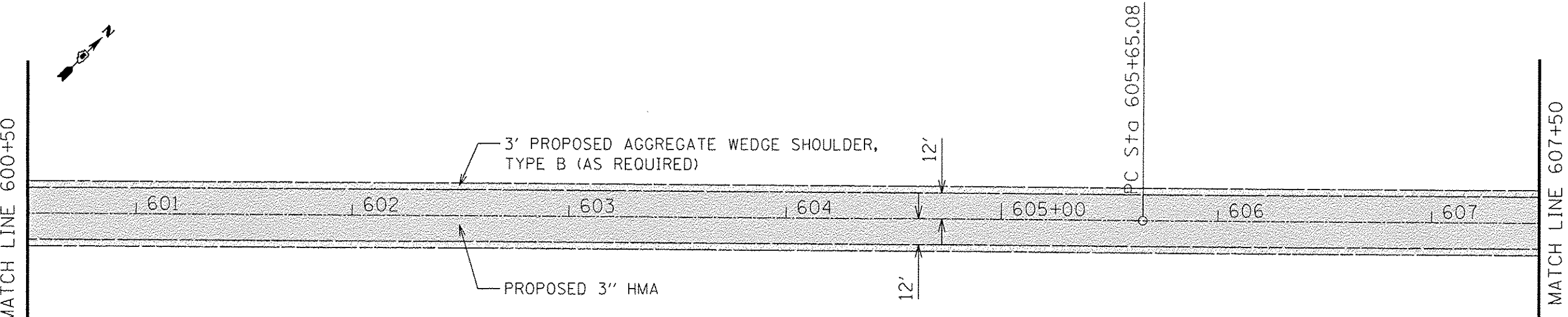
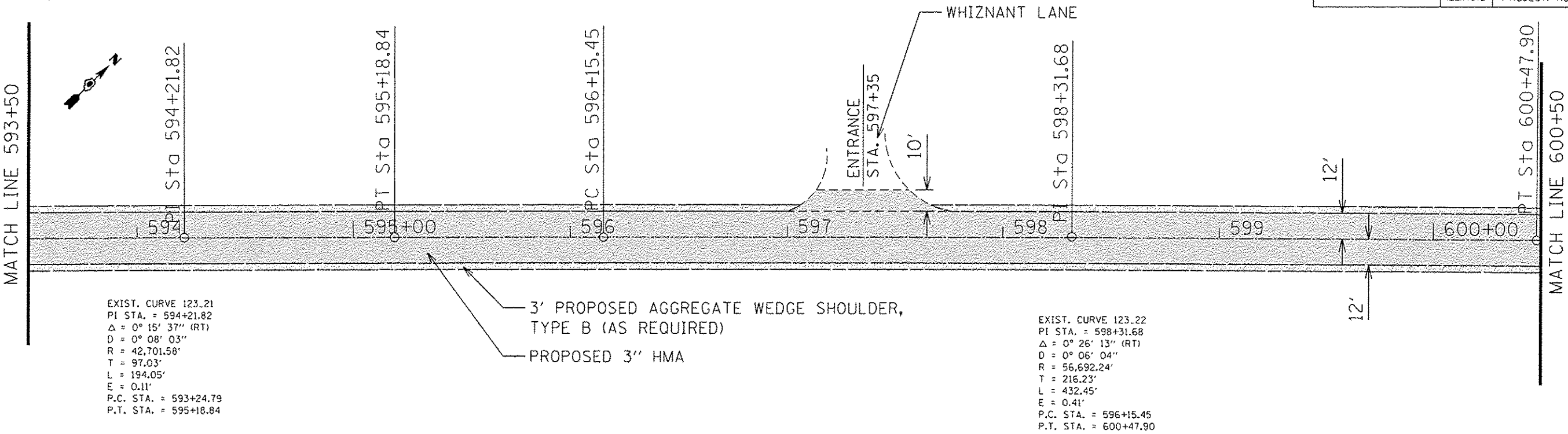
FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 579+50 TO STA: 593+50		
	ILLINOIS	PROJECT: RS-0614(108)



EXIST. CURVE 123.12
PI STA. = 588+00.28
 $\Delta = 1^\circ 25' 08''$ (RT)
 $D = 0^\circ 08' 03''$
 $R = 42,701.58'$
 $T = 528.73'$
 $L = 1,057.41'$
 $E = 3.27'$
P.C. STA. = 582+71.55
P.T. STA. = 593+28.96

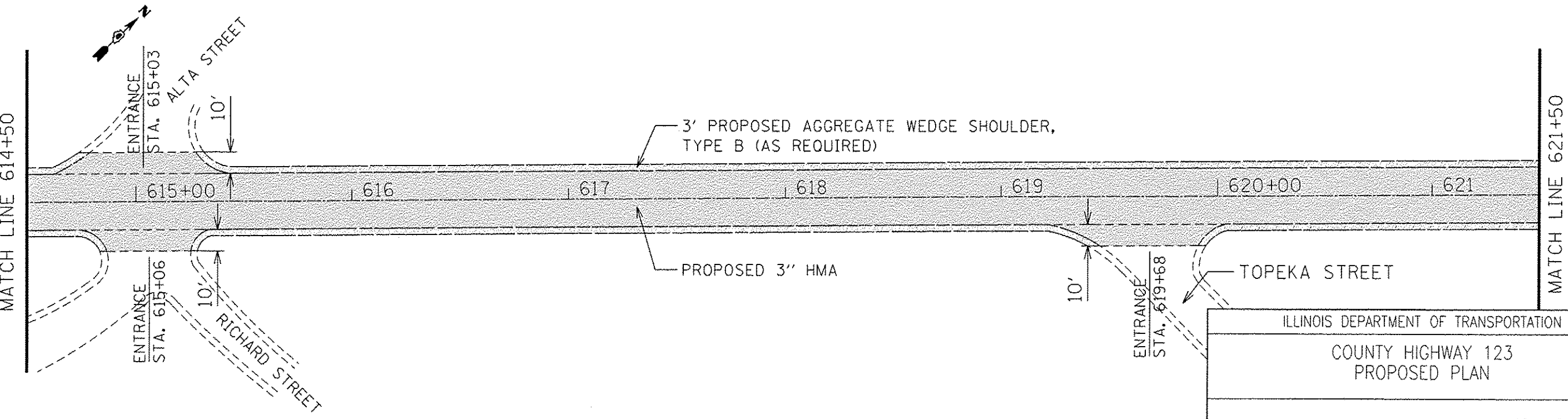
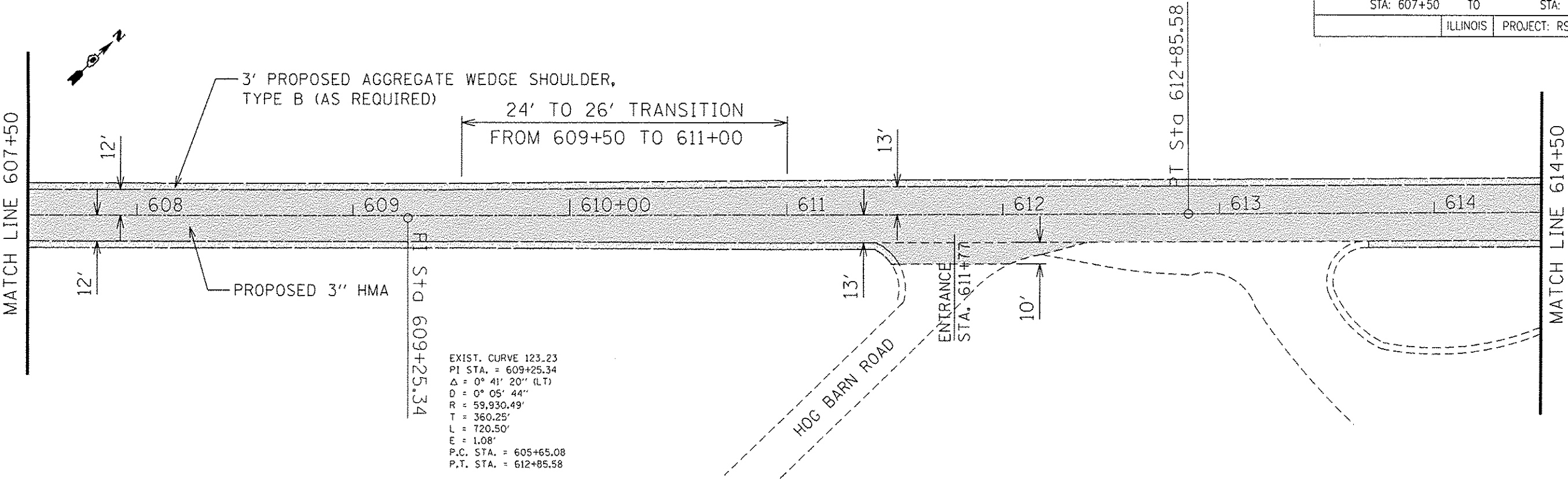
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 6 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 593+50 TO STA: 607+50		
ILLINOIS PROJECT: RS-0614(108)		



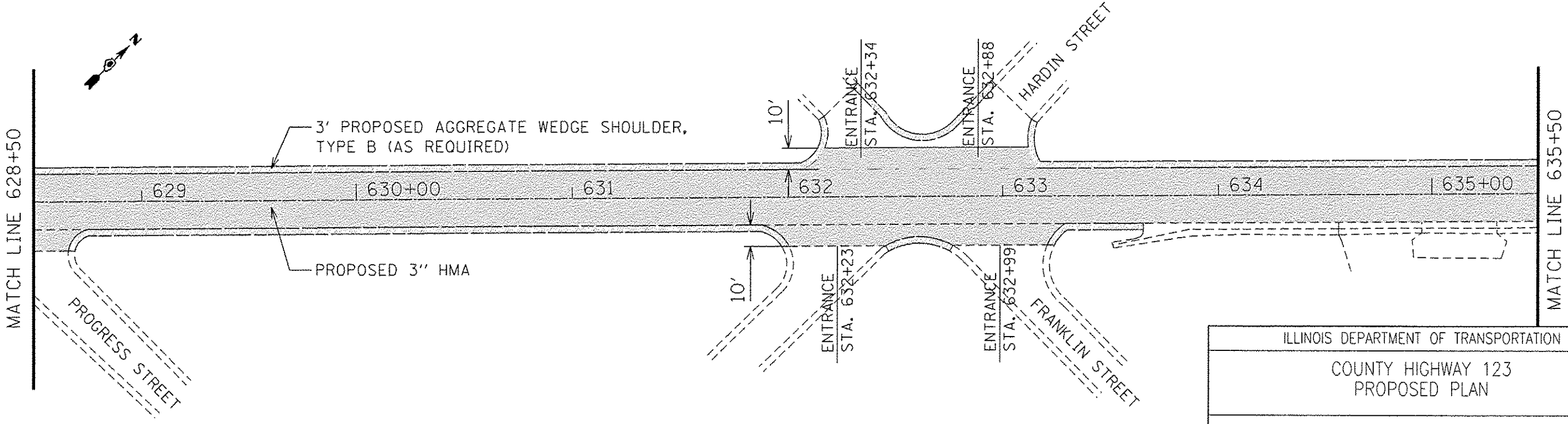
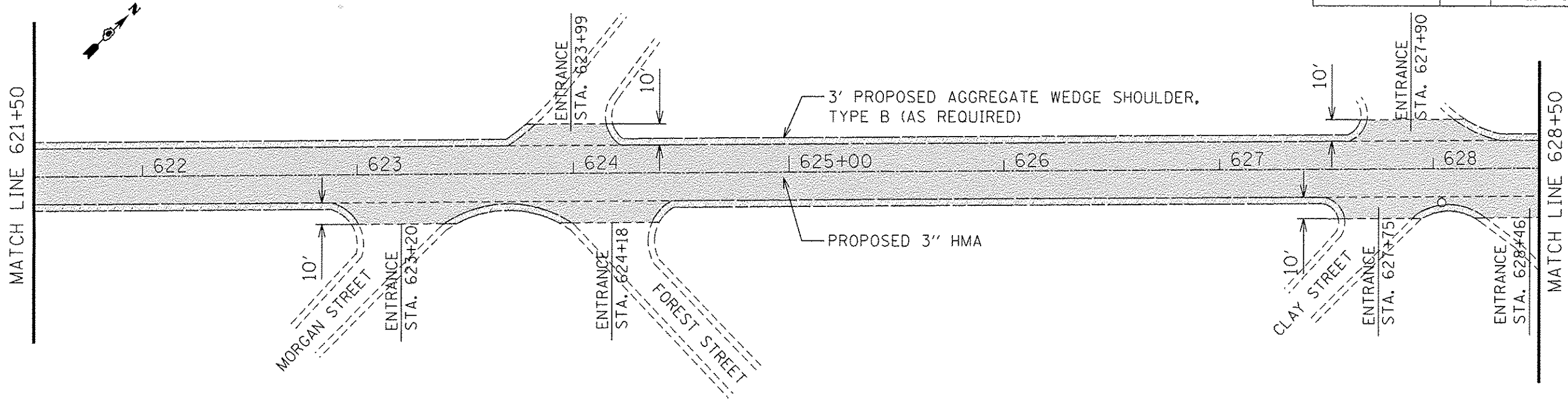
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 7 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 607+50 TO STA: 621+50		
ILLINOIS PROJECT: RS-0614(108)		



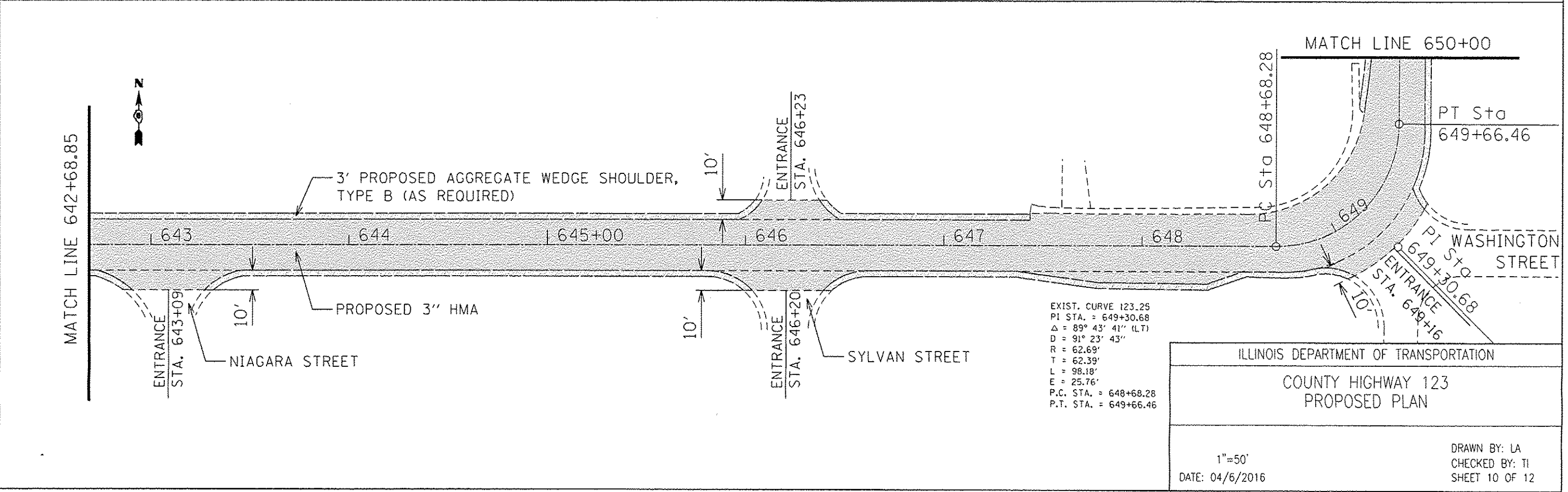
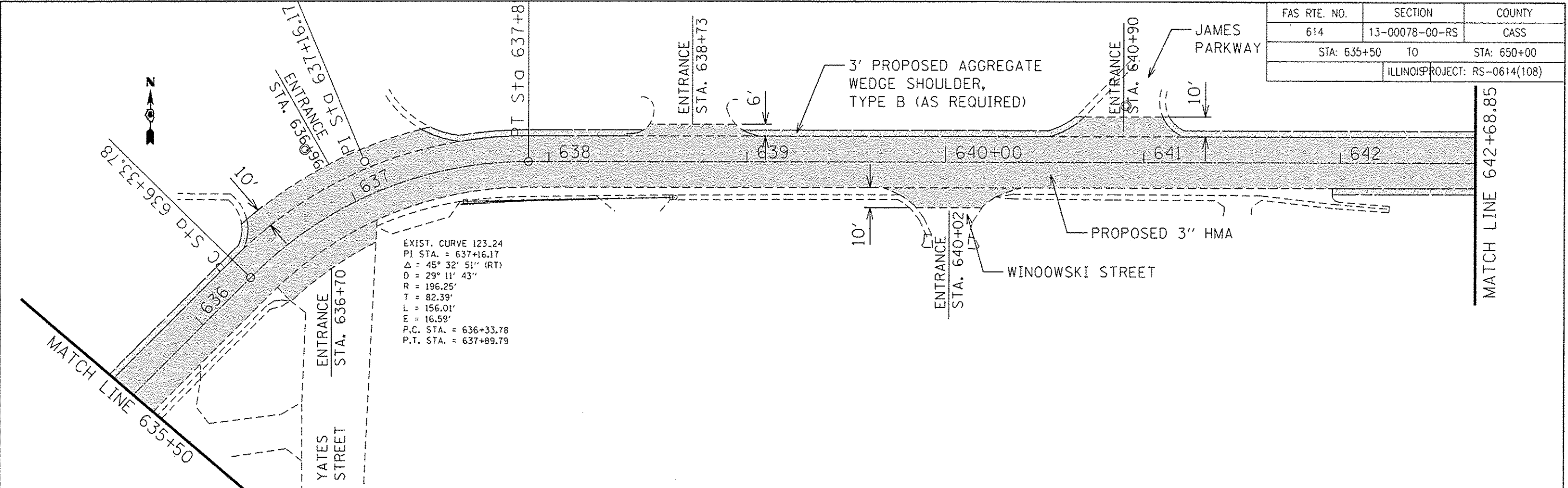
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 8 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 621+50 TO		STA: 635+50
ILLINOIS		PROJECT: RS-0614(108)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 9 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 635+50 TO STA: 650+00		ILLINOIS PROJECT: RS-0614(108)



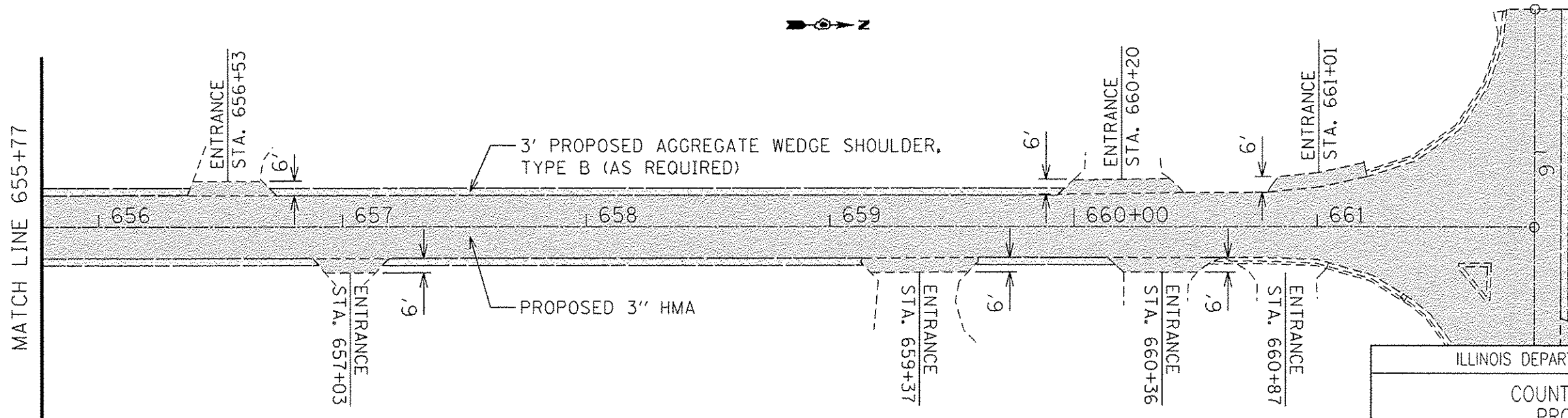
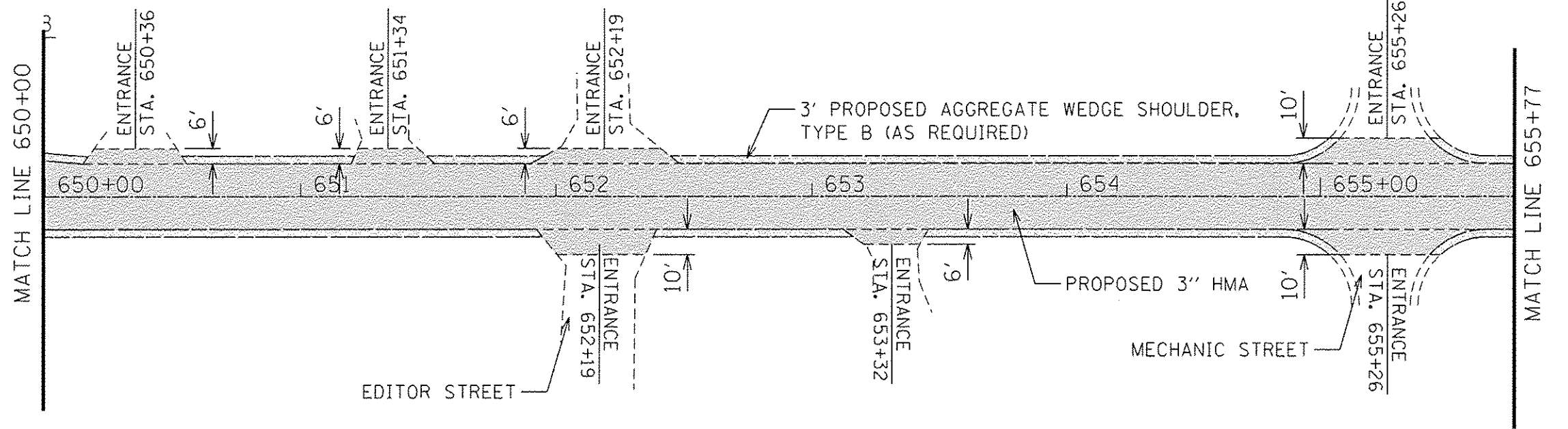
ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 123
PROPOSED PLAN

1"=50'
DATE: 04/6/2016

DRAWN BY: LA
CHECKED BY: TI
SHEET 10 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 650+00 TO		STA: 661+89.79
ILLINOIS		PROJECT: RS-0614(108)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 123 PROPOSED PLAN	
1"=50' DATE: 04/6/2016	DRAWN BY: LA CHECKED BY: TI SHEET 11 OF 12

FAS RTE. NO.	SECTION	COUNTY
614	13-00078-00-RS	CASS
STA: 0+00 TO		STA: 6+59.16
ILLINOIS		PROJECT: RS-0614(108)

