

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0166/4083	17-00005-00-RS	MCHENRY	29	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 61E36		

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2

1/19/2018 LETTING ITEM 093

**HIGHWAY CLASSIFICATION**  
RINGWOOD ROAD - MINOR ARTERIAL  
BARNARD MILL ROAD - MAJOR COLLECTOR

**TRAFFIC DATA**  
2014 ADT  
RINGWOOD ROAD  
ILLINOIS ROUTE 120 TO SPRING GROVE ROAD - 8,400

2013 ADT  
BARNARD MILL ROAD  
RINGWOOD ROAD TO ILLINOIS ROUTE 31 - 4,450

**POSTED SPEED LIMIT**  
RINGWOOD ROAD - 30 MPH TO 50 MPH  
BARNARD MILL ROAD - 30 MPH

**DESIGN SPEED LIMIT**  
RINGWOOD ROAD - 30 MPH TO 50 MPH  
BARNARD MILL ROAD - 30 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

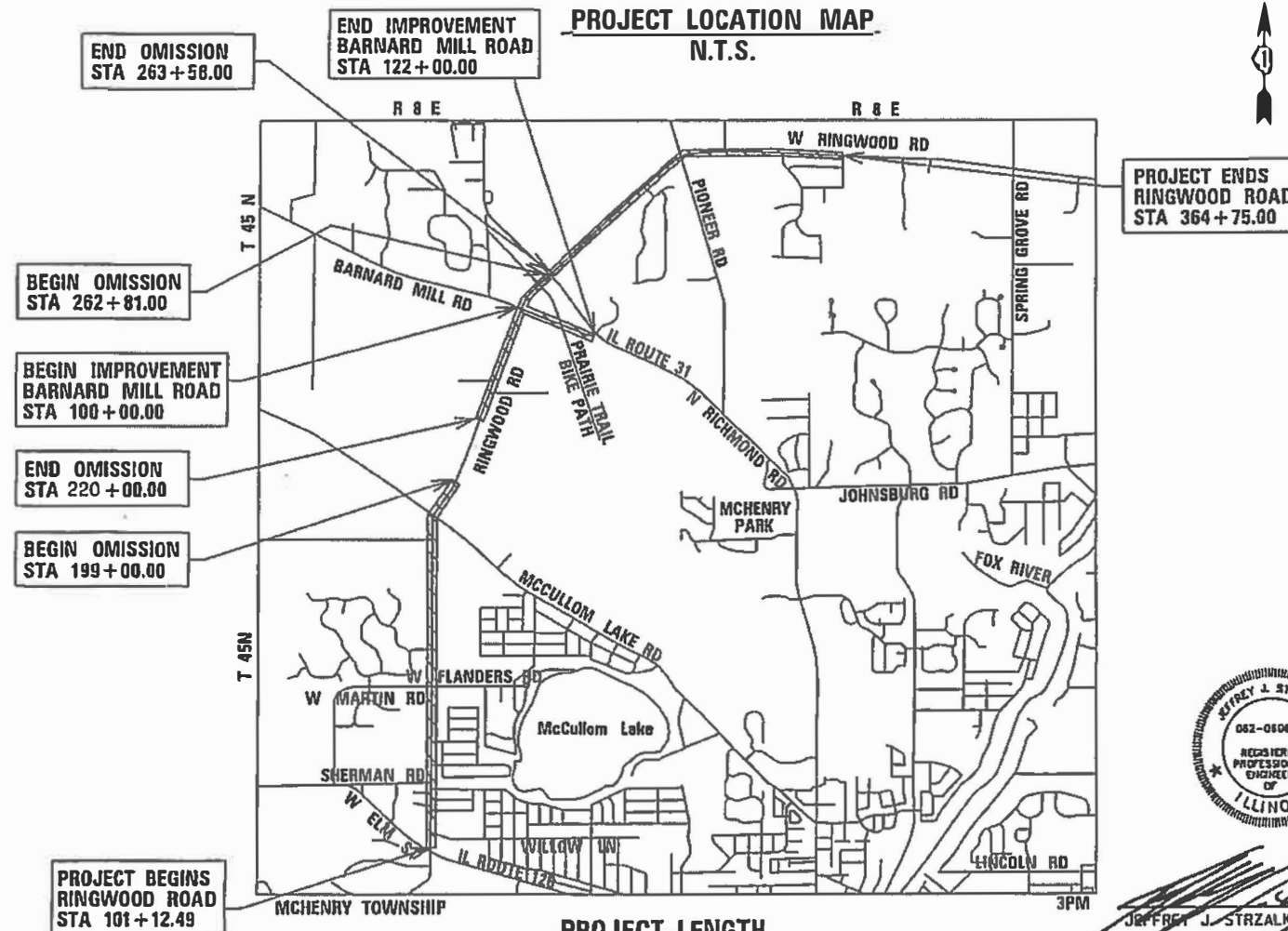
# PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

RINGWOOD ROAD (FAU 0166)  
ILLINOIS ROUTE 120 (FAP 0333) TO SPRING GROVE ROAD (FAU 0157)  
BARNARD MILL ROAD (FAU 4083)  
RINGWOOD ROAD (FAU 0166) TO ILLINOIS ROUTE 31 (FAP 0336)  
RESURFACING AND PAVEMENT MARKING  
SECTION: 17-00005-00-RS  
PROJECT NO.: KRFH(648)  
VILLAGE OF RINGWOOD  
MCHENRY COUNTY  
C-91-084-18

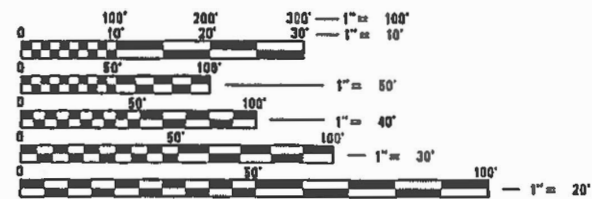


LOCATION OF SECTION INDICATED THUS: -

PROJECT LOCATION MAP  
N.T.S.



PROJECT LOCATED IN THE VILLAGE OF RINGWOOD, CITY OF MCHENRY, MCHENRY TOWNSHIP AND VILLAGE OF JOHNSBURG



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

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

**PROJECT LENGTH**

NET LENGTH OF PROJECT = 26,377 FT. = 5.0 MILES  
GROSS LENGTH OF PROJECT = 28,554 FT. = 5.41 MILES



JEFFREY J. STRZALKA, P.E.  
EXPIRES: 11-30-17

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
APPROVED October 16<sup>th</sup> 2017  
Richard E. Mack  
VILLAGE PRESIDENT, VILLAGE OF RINGWOOD  
PASSED November 2, 2017  
Chris Helt  
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS  
RELEASING FOR SIGNATURE November 3, 2017  
BASED ON LIMITED REVIEW  
Anthony J. Orsly  
REGIONAL ENGINEER

**HRGreen**  
420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

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PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLER, P.E. 847-705-4406 SCHAUMBURG, IL



**GENERAL NOTES CONT.**

SEQUENCE OF CONSTRUCTION

1. THE FOLLOWING IS A SUGGESTED SEQUENCE OF CONSTRUCTION.THE CONTRACTOR WILL BE ALLOWED TO MODIFY THE PROPOSED SEQUENCE PROVIDED ACCESS TO THE RESIDENTS IS AVAILABLE AT THE END OF EACH DAY.
2. THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER CAUSING MINIMAL INCONVENIENCE TO THE RESIDENTS, BUSINESSES AND MOTORING PUBLIC. ON STREETS WHERE CURB AND GUTTER IS TO BE CONSTRUCTED OR SIDEWALKS REPLACED. THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE SIDE OF THE STREET ONLY. ONCE THE CURB AND GUTTER AND/OR SIDEWALK IS COMPLETE, THE CONTRACTOR MAY MOVE TO THE OTHER SIDE OF THE STREET TO START THE CURB AND GUTTER AND SIDEWALK CONSTRUCTION.
3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE BUSINESSES WHEN ACCESS TO THEIR DRIVEWAYS OR ENTRANCES WILL BE TEMPORARILY CLOSED DUE TO CONCRETE CURB AND GUTTER CONSTRUCTION OR SIDEWALKS ARE TO BE INSTALLED. THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER 48 HOURS PRIOR TO REMOVING THE HARD SURFACES. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES (KNOCK ON DOORS WHEN A DRIVEWAY OR ENTRANCE IS ABOUT TO BE CLOSED).
4. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE A DRIVEWAY FOR MORE THAN 72 HOURS UNDER ANY CIRCUMSTANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BARRICADES TO PREVENT TRAFFIC FROM USING DRIVEWAYS DURING THIS PERIOD. ACCESS TO DRIVEWAYS AND STREET PARKING WILL BE RESTRICTED TO ONE SIDE OF THE STREET AT A TIME.
5. THE CONTRACTOR SHALL FILL HOLES CREATED BY THE REMOVAL OF DRIVEWAY PAVEMENT WHERE NEW GUTTER OR UTILITY HAS BEEN CONSTRUCTED WITH AGGREGATE BASE COURSE (CA-6 CRUSHED) SO THAT RESIDENTS CAN USE THEIR DRIVEWAYS UNTIL THE START OF INSTALLATION OF THE CONCRETE GUTTER AND/OR DRIVEWAY PAVEMENT.

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT		
	CHECKED		
	PAID FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE		
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 FILE NAME: 170709-srt-gen\_01.dgn  
 PEN TABLE: p01tbl.tbl



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	DRAWN - DMS	REVISED -
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PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RINGWOOD ROAD  
 GENERAL NOTES**

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
D166/4083	17-00005-00-RS	MCHENRY	29	3
CONTRACT NO.			61E36	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





PLAN	SURVEYED	DATE
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NOTE BOOK NO.	PLOTTED	DATE
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PROFILE	SURVEYED	DATE
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NOTE BOOK NO.	PLOTTED	DATE
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NO.	CHECKED	DATE
	BY	
	REVISIONS	
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	BY	
	DATE	
	BY	
	DATE	

HRC PROJECT NO. 170709  
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RESURFACING  
STU - 80% FEDERAL  
0005

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	VILLAGE OF RINGWOOD	VILLAGE OF JOHNSBURG	MCHENRY TOWNSHIP ROAD DISTRICT	CITY OF MCHENRY
+ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	725.0	600.0			125.0
+ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	311.0	189.0	56.0		66.0
+ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	33				33
+ 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	32				32
+ * 88600600	DETECTOR LOOP REPLACEMENT	FOOT	200.0	200.0			
+ * X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	4	4			
* X0326806	WASHOUT BASIN	L SUM	1	0.5			0.5
* X0327584	GRADING AND SHAPING SHOULDERS, SPECIAL	FOOT	2,000.0	800.0	300.0	500.0	400.0
* X0964700	SHOULDERS, SPECIAL	SQ YD	180.0	120.0			60.0
* X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	543	151	62	251	79
* X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	60	40			20
* X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	2		1	2
* X7240505	RELOCATE SIGN PANEL AND POST	EACH	3				3
* Z0004560	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	655.0	449.0			206.0
* Z0018300	DRAINAGE STRUCTURE REPAIR	EACH	13	13			
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	310.0	103.0	52.0	103.0	52.0

\* SPECIAL PROVISION  
+ SPECIALTY ITEM



USER NAME = JSTRZAL	DESIGNED -	REVISED -
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PLOT DATE = 12/8/2017	DATE - 12/8/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

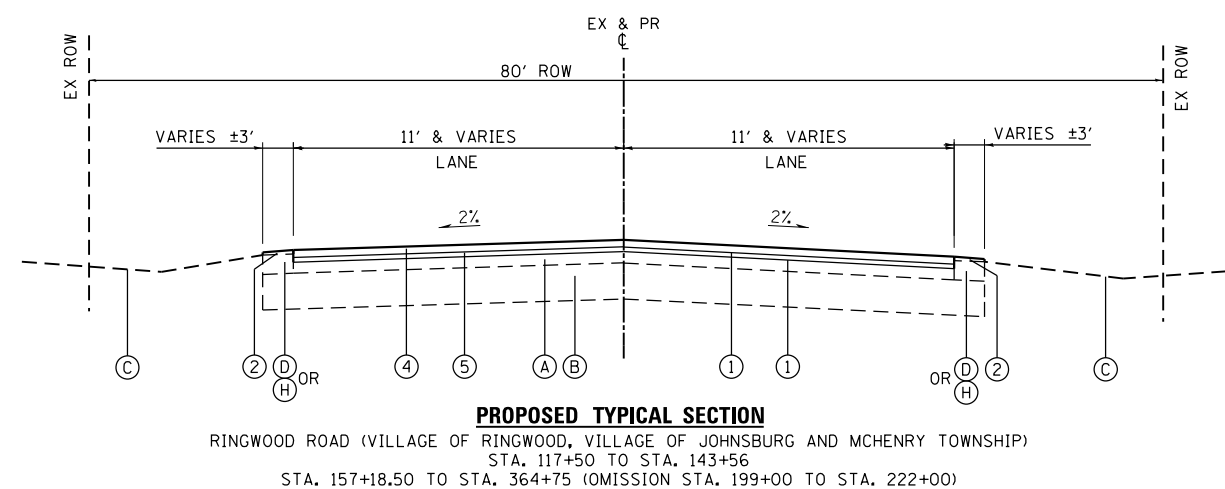
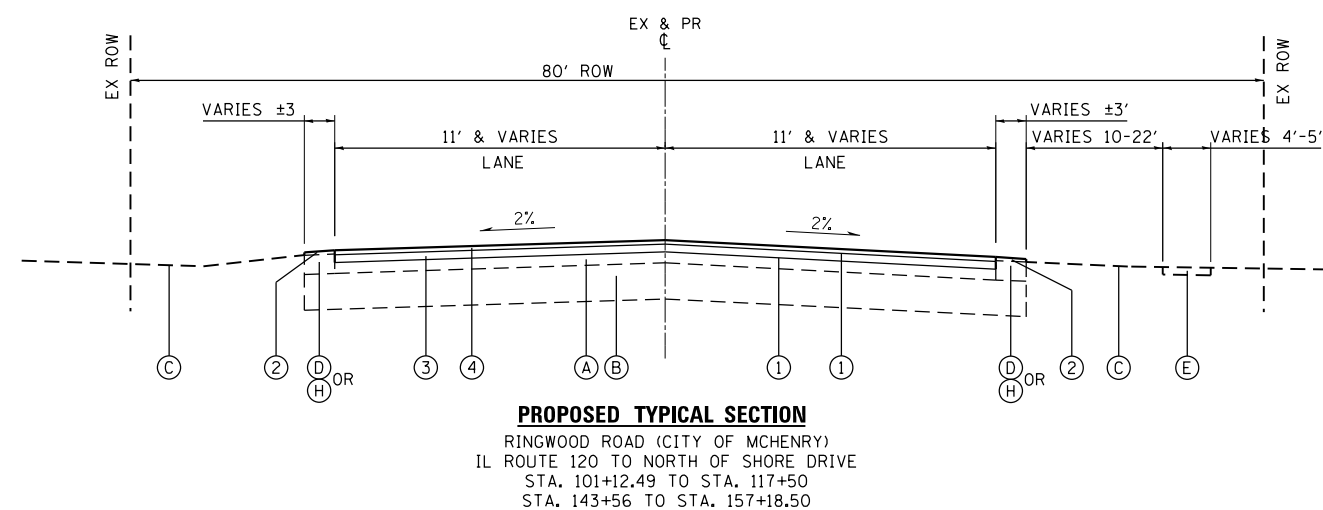
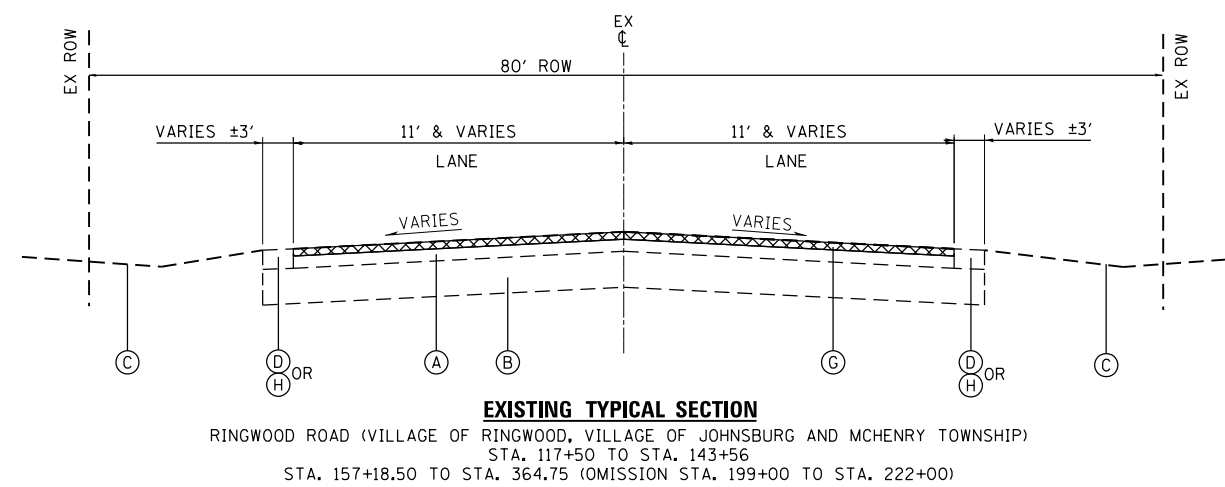
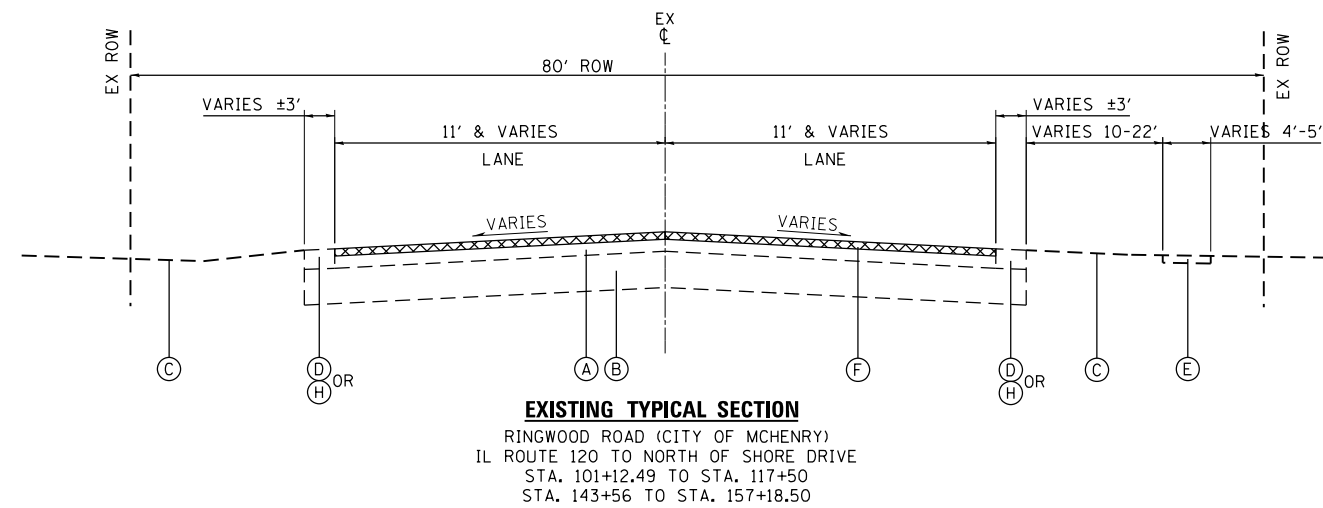
BARNARD MILL ROAD & RINGWOOD ROAD  
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
166/4083	17-00005-00-RS	MCHENRY	29	5
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO.	61E36	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	



**EXISTING LEGEND**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; ±6"
- (B) EXISTING AGGREGATE BASE COURSE; ±12"
- (C) EXISTING GROUND
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)
- (F) HOT-MIX ASPHALT SURFACE REMOVAL; 3 3/4"
- (G) HOT-MIX ASPHALT SURFACE REMOVAL; 2 3/4"
- (H) EXISTING CONCRETE CURB AND GUTTER, TYPE VARIES (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

**PROPOSED LEGEND**

- (1) BITUMINOUS MATERIALS (TACK COAT)
- (2) AGGREGATE SHOULDERS, TYPE B (9% MAX SLOPE) (CM-6 CRUSHED RECYCLED ASPHALT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"
- (4) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 3/4"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50; 1"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>PAVEMENT RESURFACING</b>	
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm); 1 3/4"	4.0% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 1"	3.5% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"	4.0% @ 70 GYR.
<b>INCIDENTAL HMA SURFACING (DRIVEWAYS)</b>	
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm); 2"	4.0% @ 70 GYR.
<b>PATCHING</b>	
CLASS D PATCHES, (HMA BINDER, IL-19mm); 4"	4.0% @ 70 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22". FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

PATCHING LOCATIONS TO BE DETERMINED BY THE ENGINEER AFTER MILLING OPERATIONS.

HRG PROJECT NO.: 170709  
HRG PROJ. CONTACT: 170709-srt+typ@hrg.com  
FILE NUMBER: 170709-001  
PEN TABLE: 170709-001



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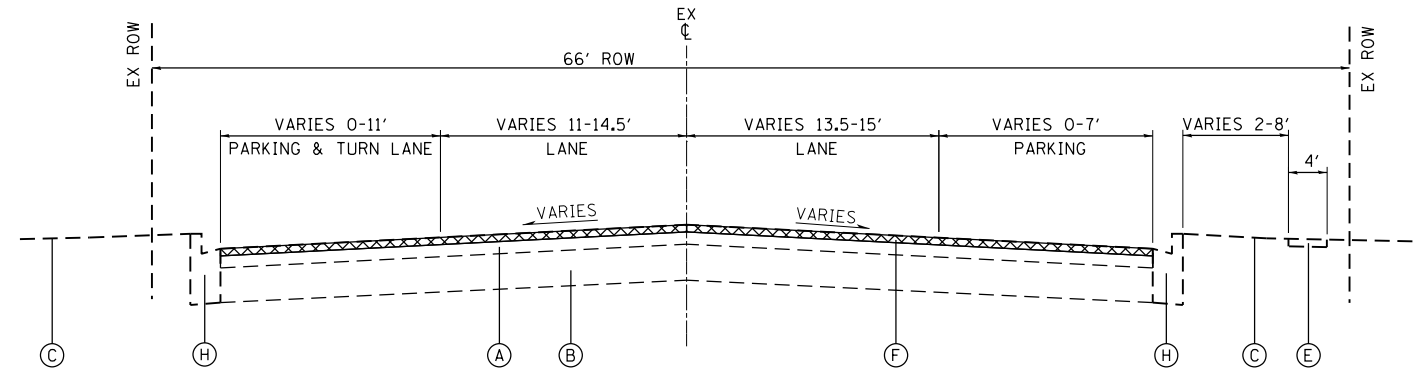
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RINGWOOD ROAD  
TYPICAL SECTIONS**

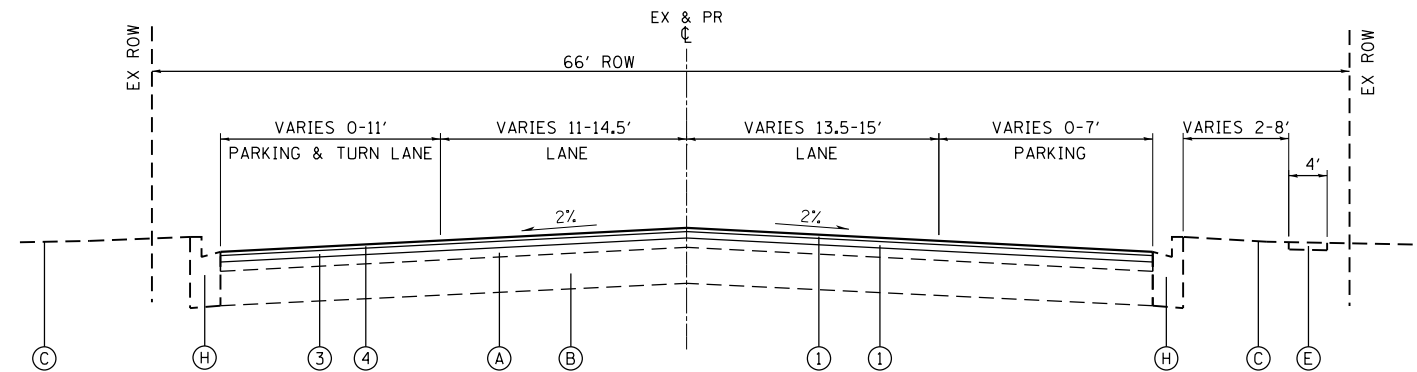
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			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 61E36		

PLAN	SURVEYED	DATE
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	FILE NAME	
	TABLE	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOT AT THIS OFFICE	
	NO.	



**EXISTING TYPICAL SECTION**  
 BARNARD MILL ROAD (VILLAGE OF RINGWOOD)  
 STA. 100+00 TO STA. 122+00



**PROPOSED TYPICAL SECTION**  
 BARNARD MILL ROAD (VILLAGE OF RINGWOOD)  
 STA. 100+00 TO STA. 122+00

**EXISTING LEGEND**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; ±6"
- (B) EXISTING AGGREGATE BASE COURSE; ±12"
- (C) EXISTING GROUND
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PCC SIDEWALK (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)
- (F) HOT-MIX ASPHALT SURFACE REMOVAL; 3 3/4"
- (G) HOT-MIX ASPHALT SURFACE REMOVAL; 2 3/4"
- (H) EXISTING CONCRETE CURB AND GUTTER, TYPE VARIES (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

**PROPOSED LEGEND**

- (1) BITUMINOUS MATERIALS (TACK COAT)
- (2) AGGREGATE SHOULDERS, TYPE B (9% MAX SLOPE) (CM-6 CRUSHED RECYCLED ASPHALT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"
- (4) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 3/4"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50; 1"

HRG PROJECT NO.: 170709  
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 PEN TABLE: penfcbtbl.tbl



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PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

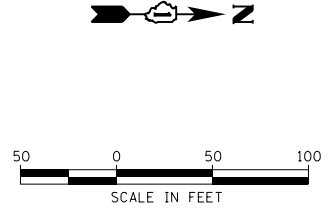
**BARNARD MILL ROAD  
 TYPICAL SECTIONS**

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
D166/4083	17-00005-00-RS	MCHENRY	29	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61E36	

PROJECT BEGINS  
STA 101+12.49

CITY OF MCHENRY BEGINS  
HMA SURF REM 3 3/4  
HMA SC "D" N70; 1 3/4  
HMA BC IL-19.0 N70; 2 1/4



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	

**NOTES:**

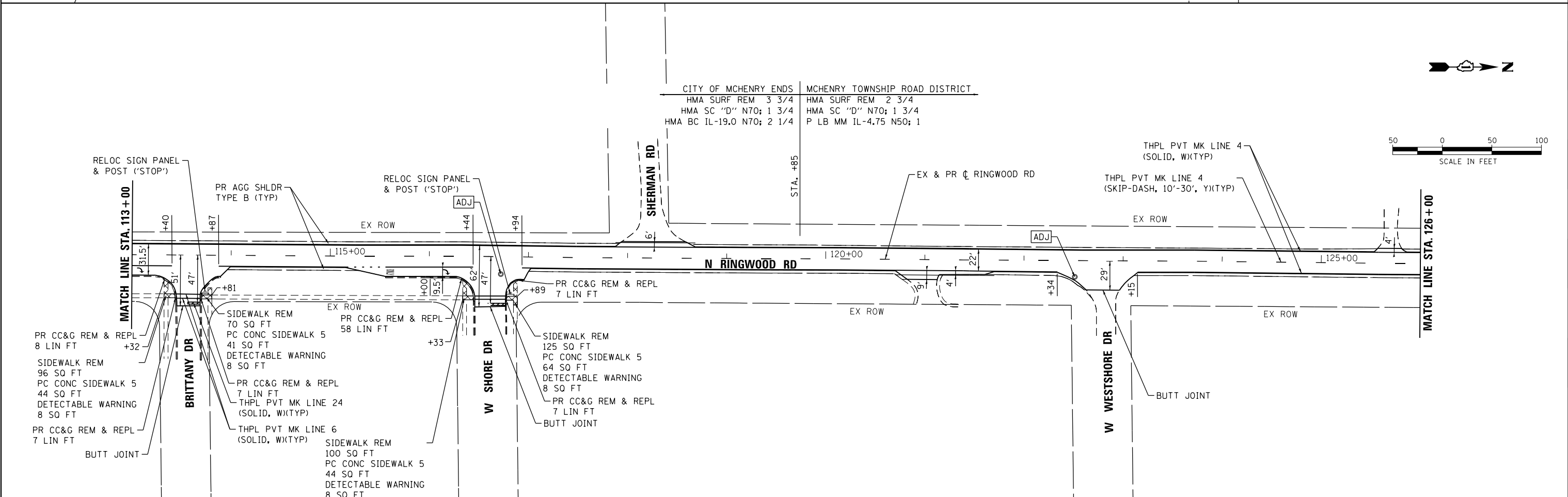
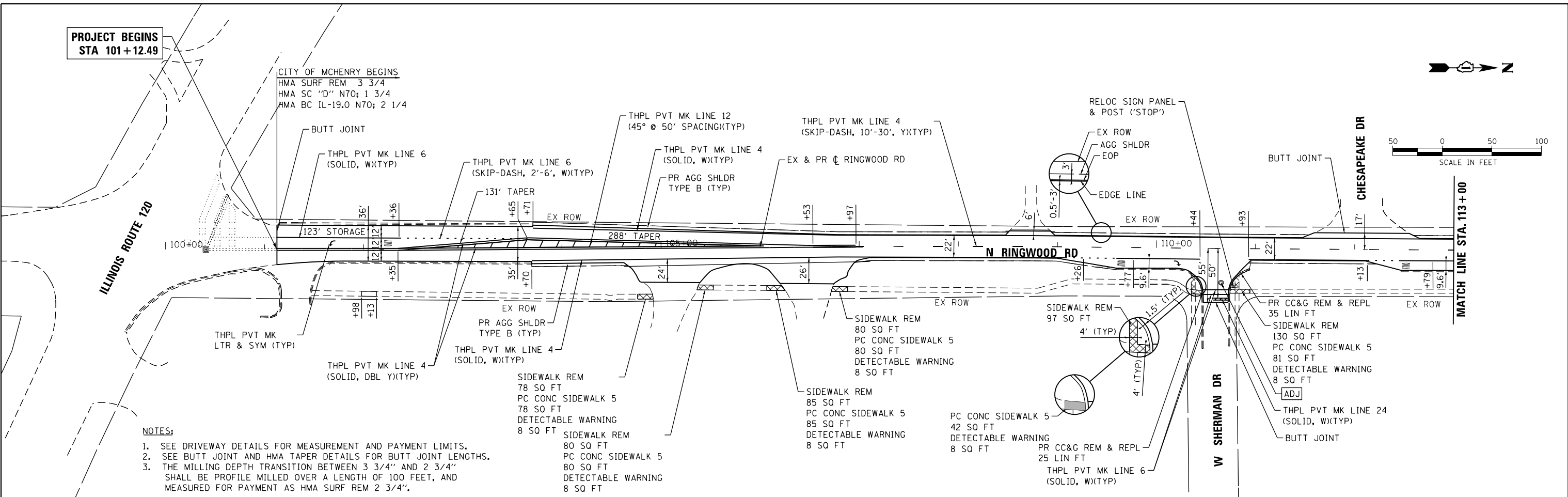
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	

CITY OF MCHENRY ENDS | MCHENRY TOWNSHIP ROAD DISTRICT  
HMA SURF REM 3 3/4 | HMA SURF REM 2 3/4  
HMA SC "D" N70; 1 3/4 | HMA SC "D" N70; 1 3/4  
HMA BC IL-19.0 N70; 2 1/4 | P LB MM IL-4.75 N50; 1



HRG PROJECT NO.: 170709  
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FILE NAME: 170709-srt-pj.dgn  
PEN TABLE: pen.tbl



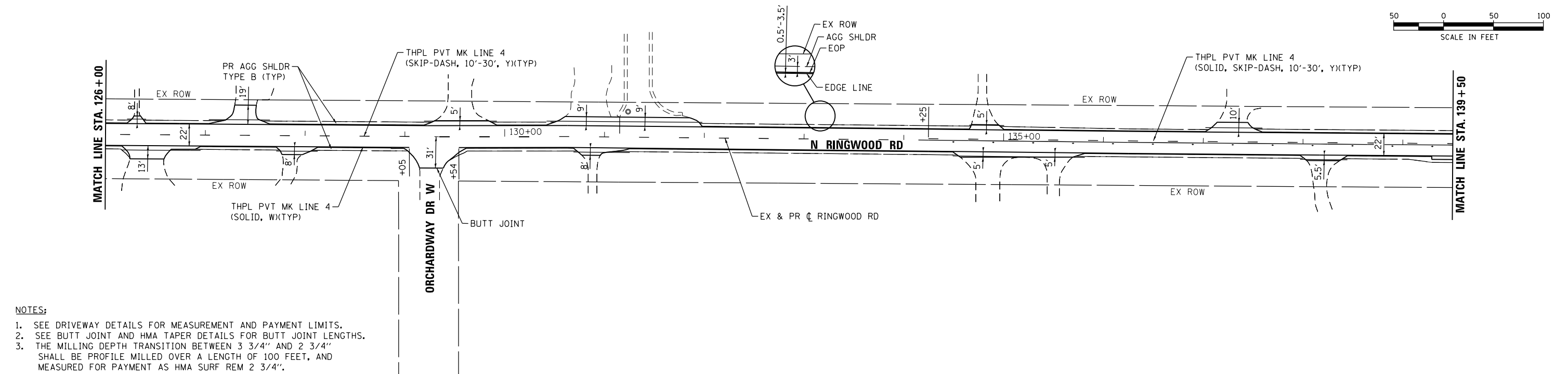
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	PLOT SCALE = 1"=50' PLOT DATE = 11/1/2017	SCALE: 1"=50'		SHEET NO. 1 OF 12 SHEETS	STA. 101+12.49 TO STA. 126+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 61E36			



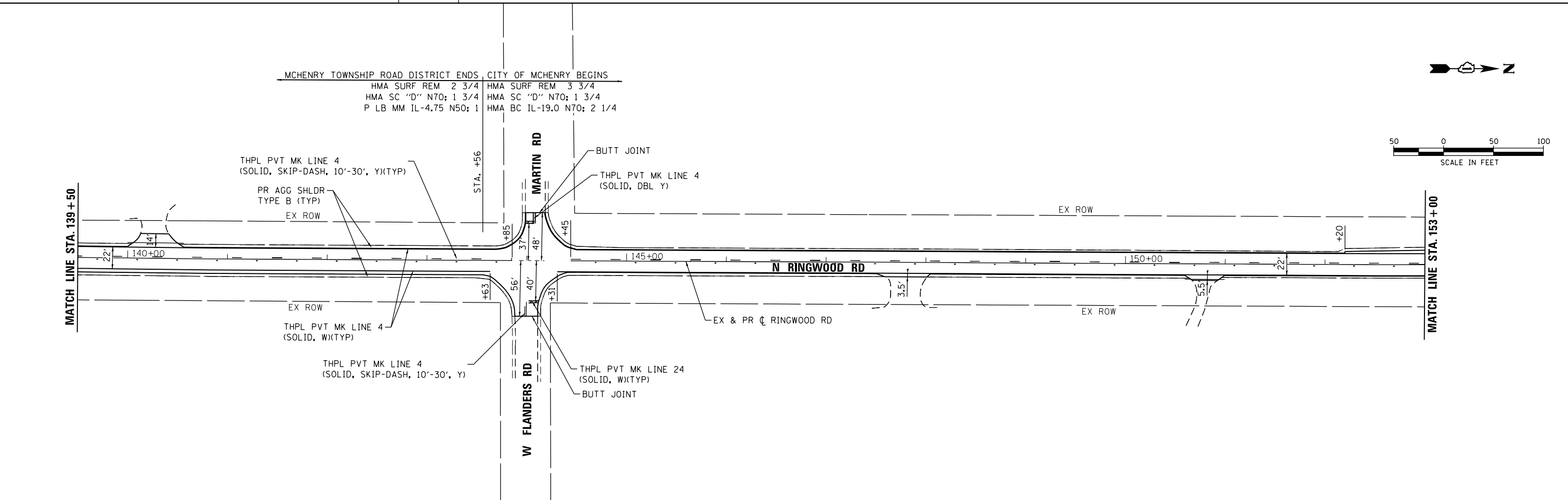
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 PEN TABLE: pnttbltbl.tbl



- NOTES:**
- SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  - SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  - THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

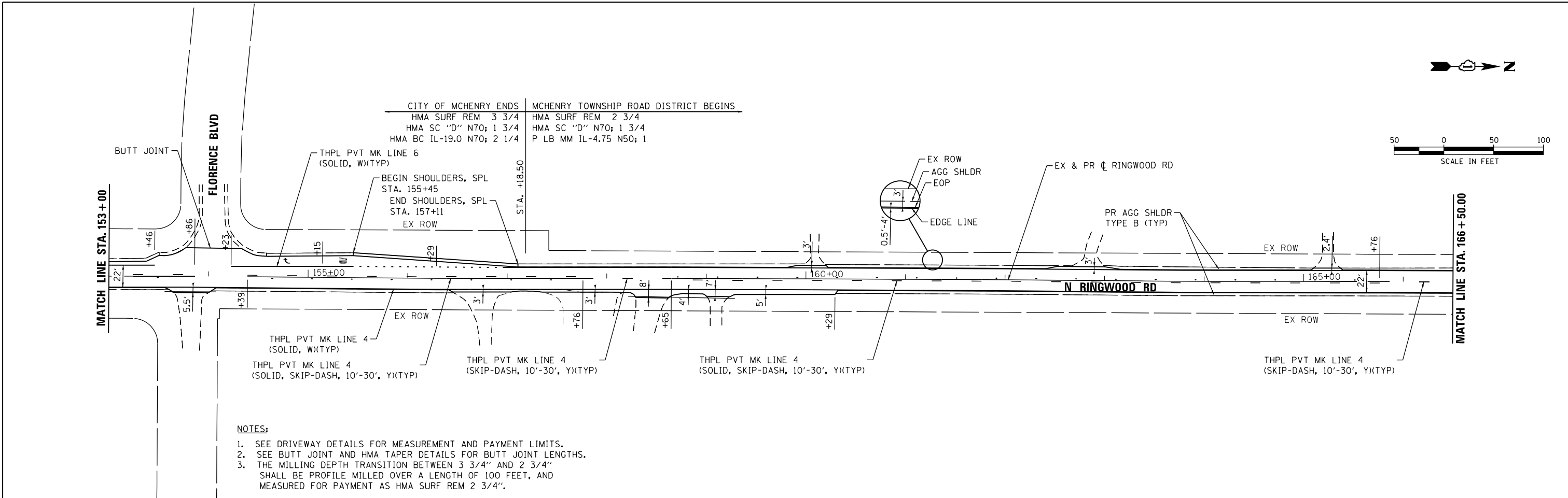


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	PLOT SCALE = 1"=50' PLOT DATE = 11/1/2017	SCALE: 1"=50' SHEET NO. 2 OF 12 SHEETS STA. 126+00.00 TO STA. 153+00.00	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61E36			

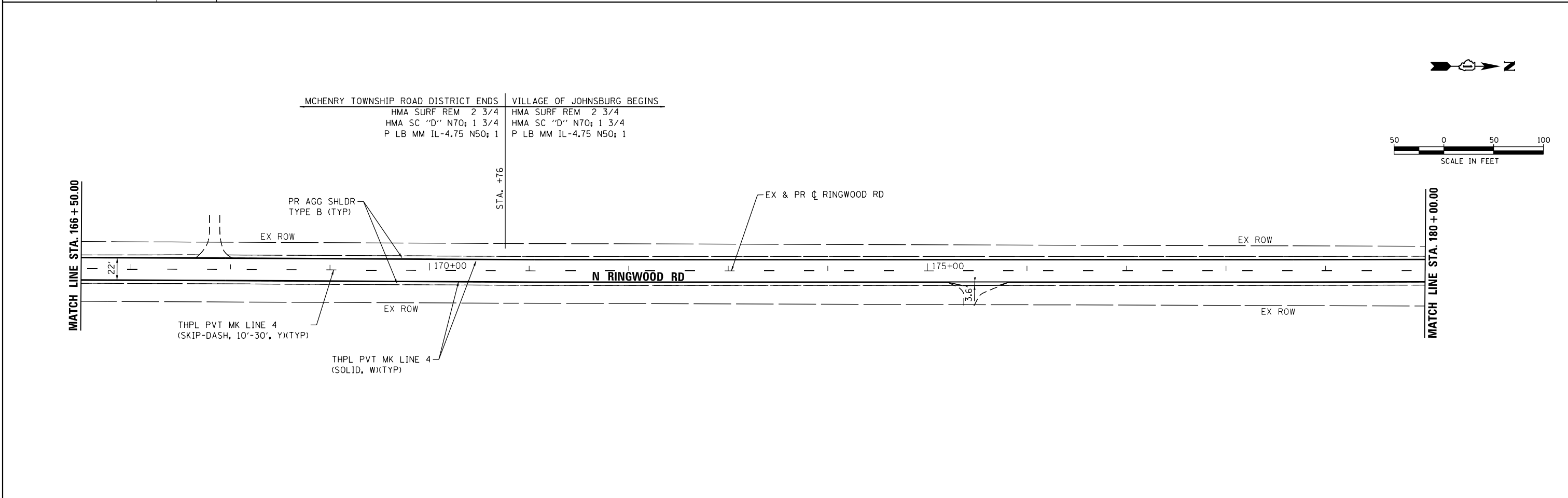
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 PEN TABLE: p01tbl.tbl



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



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USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RINGWOOD ROAD  
 RESURFACING PLAN**

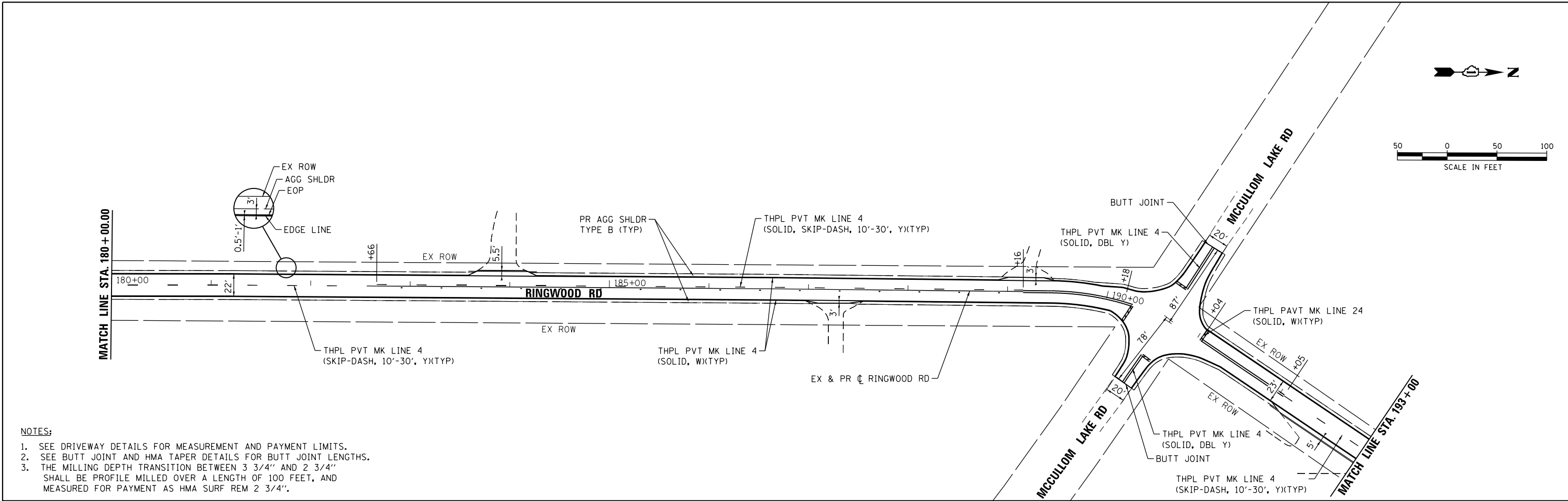
SCALE: 1"=50' SHEET NO. 3 OF 12 SHEETS STA. 153+00.00 TO STA. 180+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
D166/4083	17-00005-00-RS	MCHENRY	29	10
CONTRACT NO.			61E36	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

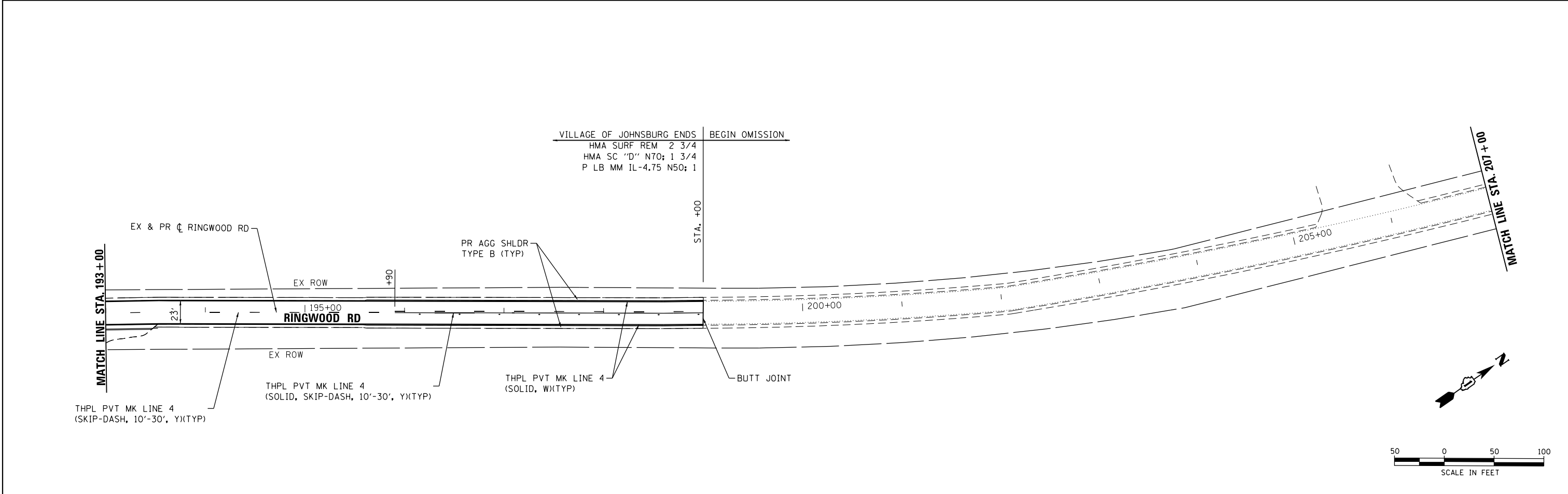
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	
	NO. 6	
	NO. 7	
	NO. 8	
	NO. 9	
	NO. 10	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	
	NO. 6	
	NO. 7	
	NO. 8	
	NO. 9	
	NO. 10	

HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plans04.dgn  
 FILE NAME: 170709-srt-plans04.dgn  
 PEN TABLE: ptable.tbl



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



VILLAGE OF JOHNSBURG ENDS | BEGIN OMISSION  
 HMA SURF REM 2 3/4  
 HMA SC "D" N70; 1 3/4  
 P LB MM IL-4.75 N50; 1



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

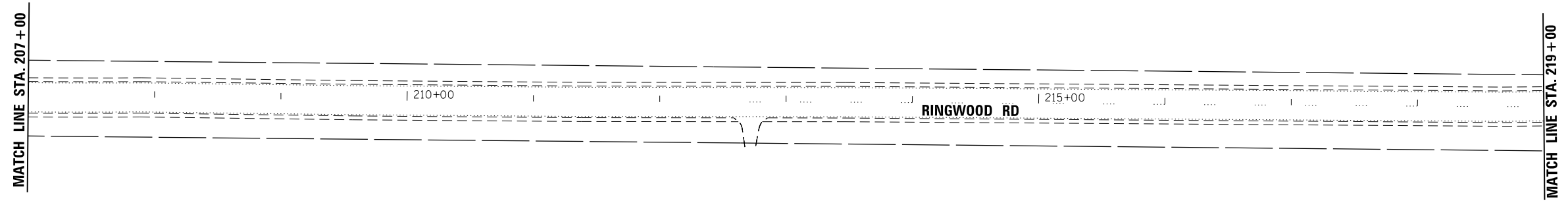
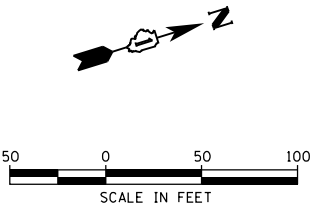
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RINGWOOD ROAD  
 RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 4 OF 12 SHEETS STA. 180+00.00 TO STA. 207+00.00

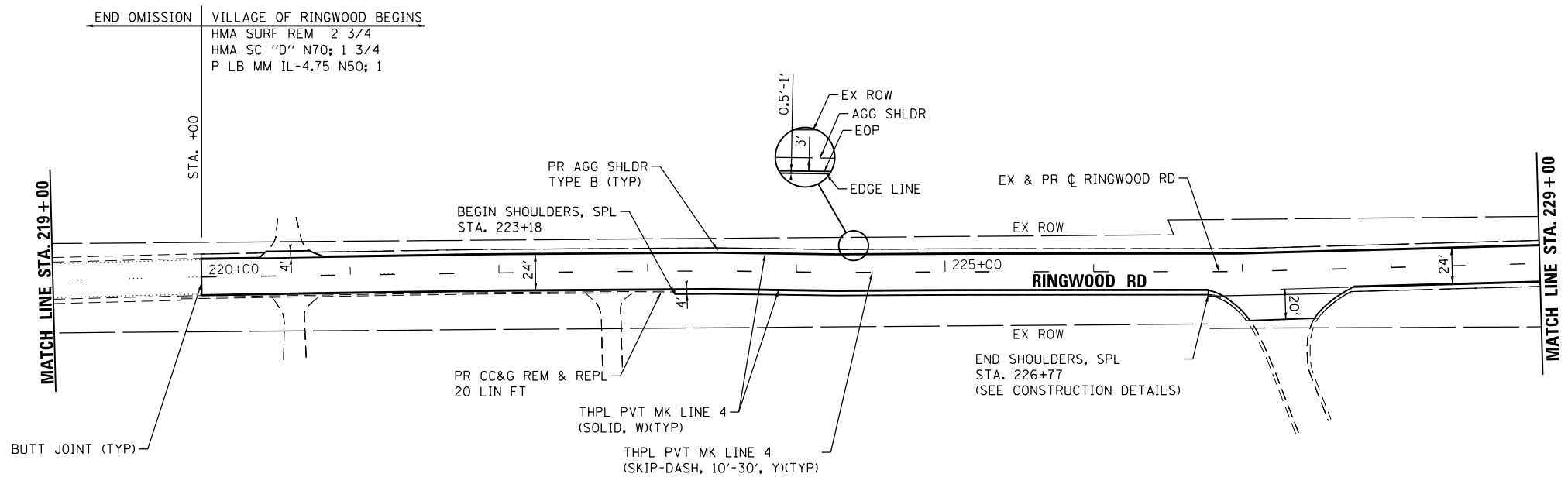
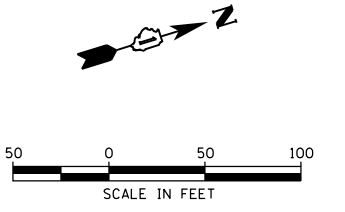
F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 11
CONTRACT NO. 61E36		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	CONSTRUCTION CHECKED		
	ROAD FILE NAME		
	NO.		



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plnprn05.dgn  
 FILE NAME: 170709-srt-plnprn05.dgn  
 PEN TABLE: p01tbltbl.tbl



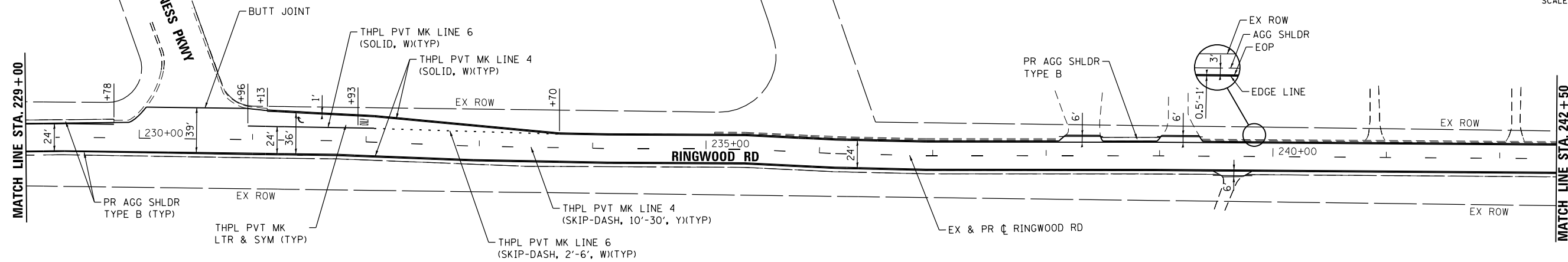
USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RINGWOOD ROAD RESURFACING PLAN</b>	
SCALE: 1"=50'	SHEET NO. 5 OF 12 SHEETS
STA. 207+00.00 TO STA. 229+00.00	

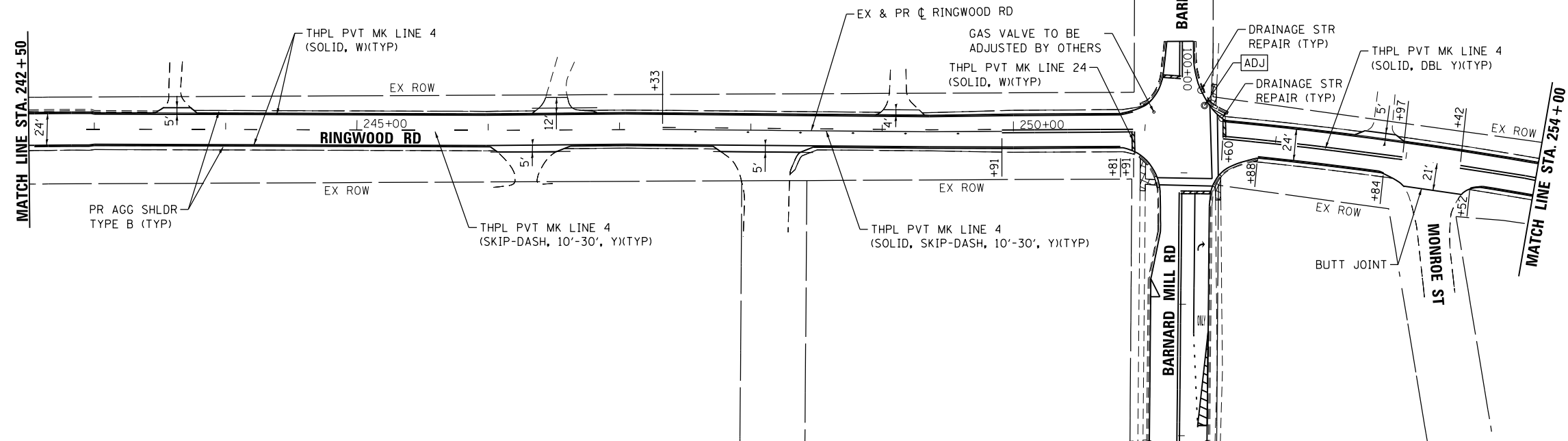
F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 12
CONTRACT NO. 61E36		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		



HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plans@hrgreen.com  
 FILE NAME: 170709-srt-plans-06.dgn  
 PEN TABLE: p01tbl.tbl



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

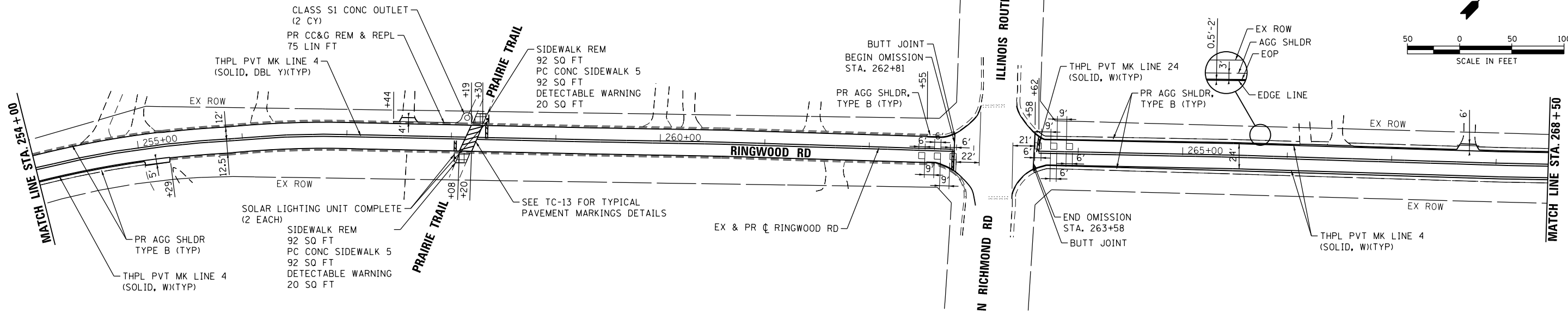
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>RINGWOOD ROAD RESURFACING PLAN</b>	
SCALE: 1"=50'	SHEET NO. 6 OF 12 SHEETS
STA. 229+00.00 TO STA. 254+00.00	

F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 13
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

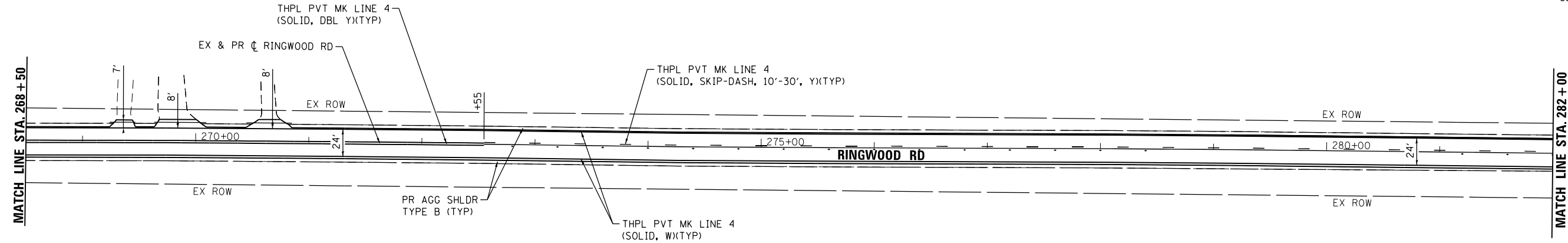
CONTRACT NO. 61E36

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	FILE NAME	
	DATE	



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	FILE NAME	
	DATE	



HRG PROJECT NO.: 170709  
 HRG PROJ CONTACT: 170709-srt-plans07.dgn  
 FILE NAME: 170709-srt-plans07.dgn  
 PEN TABLE: pcc1tbl.tbl



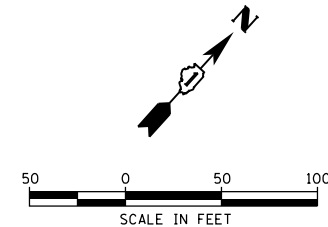
USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

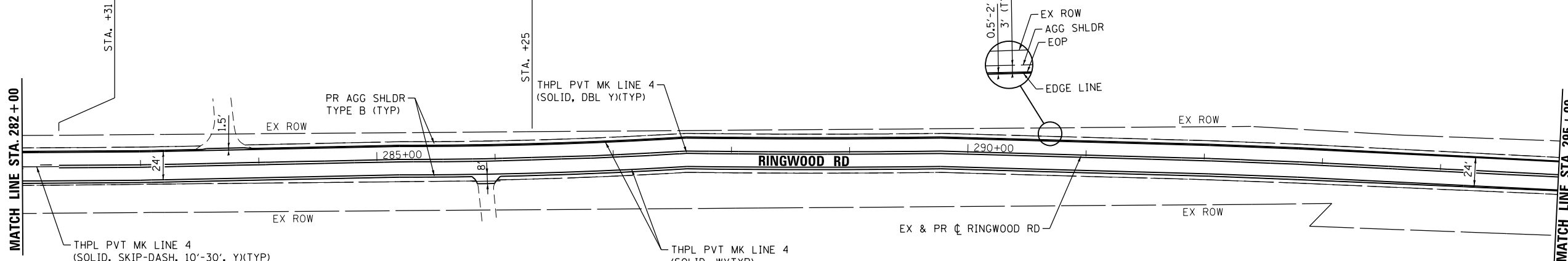
<b>RINGWOOD ROAD RESURFACING PLAN</b>		F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 14
SCALE: 1"=50'	SHEET NO. 7 OF 12 SHEETS	STA. 254+00.00	TO STA. 282+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61E36



VILLAGE OF RINGWOOD ENDS	MCHENRY TOWNSHIP ROAD DISTRICT BEGINS	MCHENRY TOWNSHIP ROAD DISTRICT ENDS	VILLAGE OF RINGWOOD BEGINS
HMA SURF REM 2 3/4	HMA SURF REM 2 3/4	HMA SURF REM 2 3/4	HMA SURF REM 2 3/4
HMA SC "D" N70; 1 3/4	HMA SC "D" N70; 1 3/4	HMA SC "D" N70; 1 3/4	HMA SC "D" N70; 1 3/4
P LB MM IL-4.75 N50; 1	P LB MM IL-4.75 N50; 1	P LB MM IL-4.75 N50; 1	P LB MM IL-4.75 N50; 1

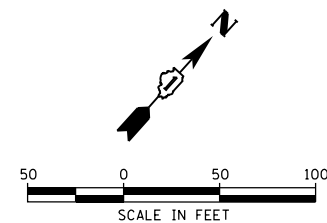
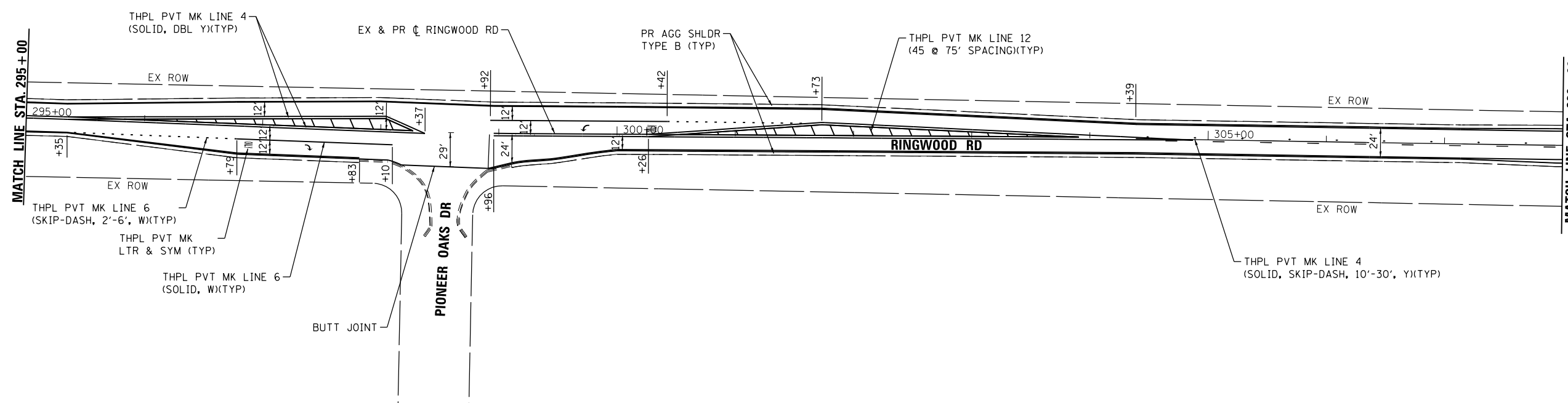


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	FILE NUMBER		
	FILE TABLE		



- NOTES:**
- SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  - SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  - THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	FILE NUMBER		
	FILE TABLE		



HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-p170709-08.dgn  
 FILE NAME: 170709-srt-p170709-08.dgn  
 FILE NUMBER: 170709-srt-p170709-08.dgn  
 FILE TABLE: 170709-srt-p170709-08.dgn



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

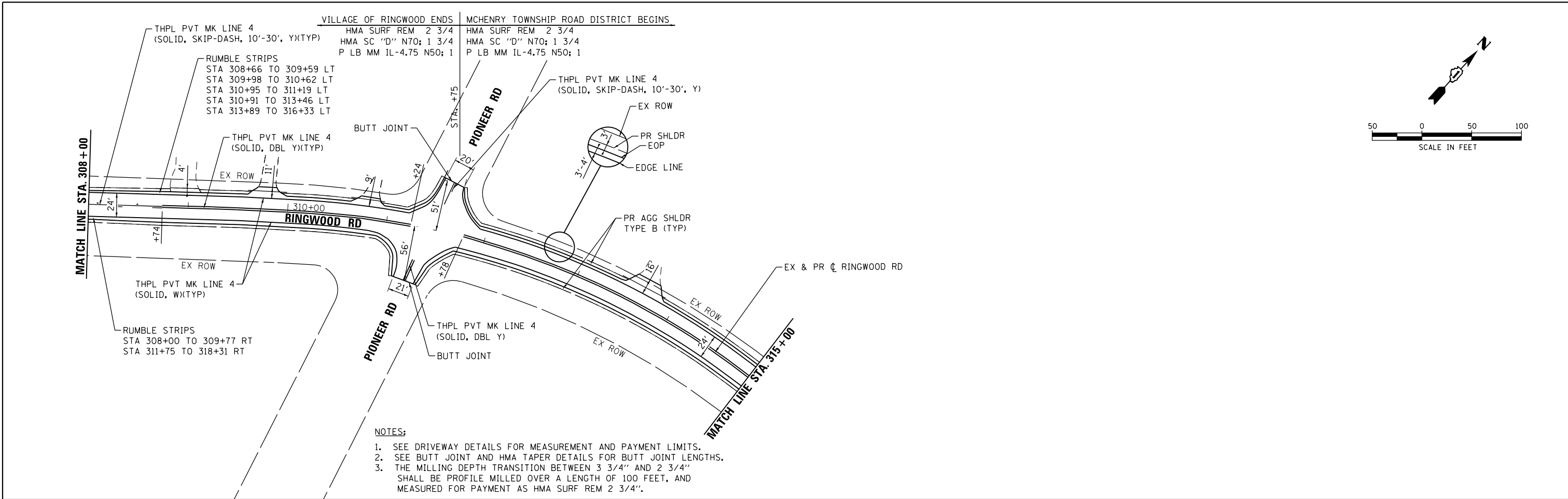
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>RINGWOOD ROAD RESURFACING PLAN</b>		F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 15
SCALE: 1"=50'	SHEET NO. 8 OF 12 SHEETS	STA. 282+00.00	TO STA. 308+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61E36

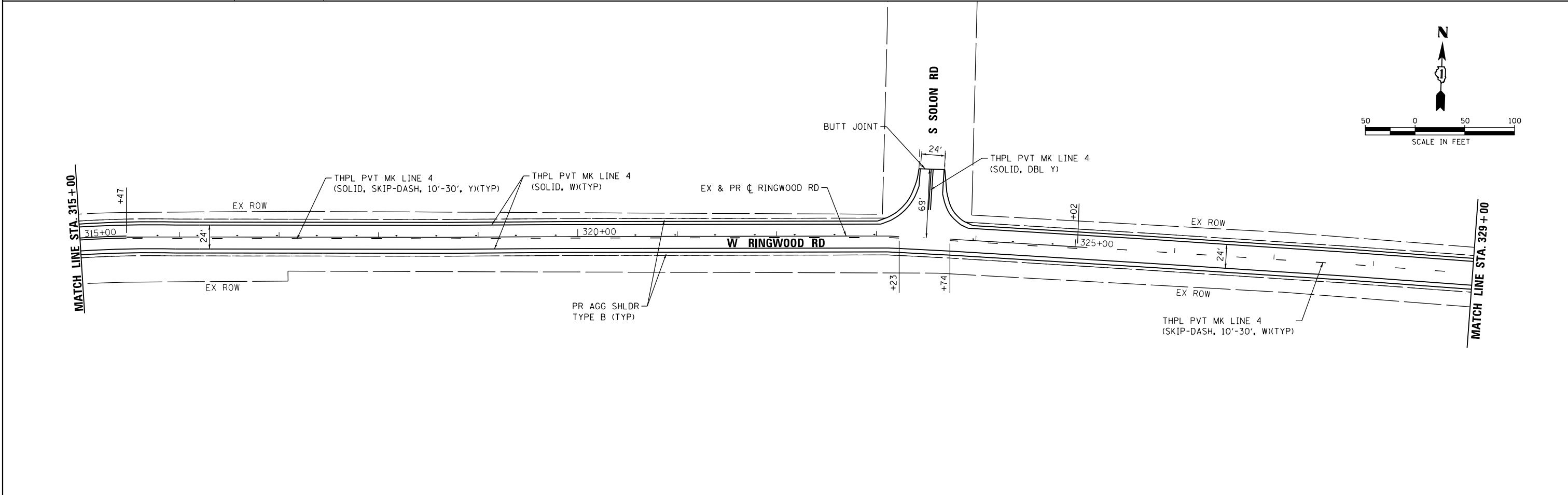
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	FILE NO.	
	DATE	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	FILE NAME	
	FILE NO.	
	DATE	

HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plans09.dgn  
 FILE NAME: 170709-srt-plans09.dgn  
 PEN TABLE: p01tbl.tbl



- NOTES:
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

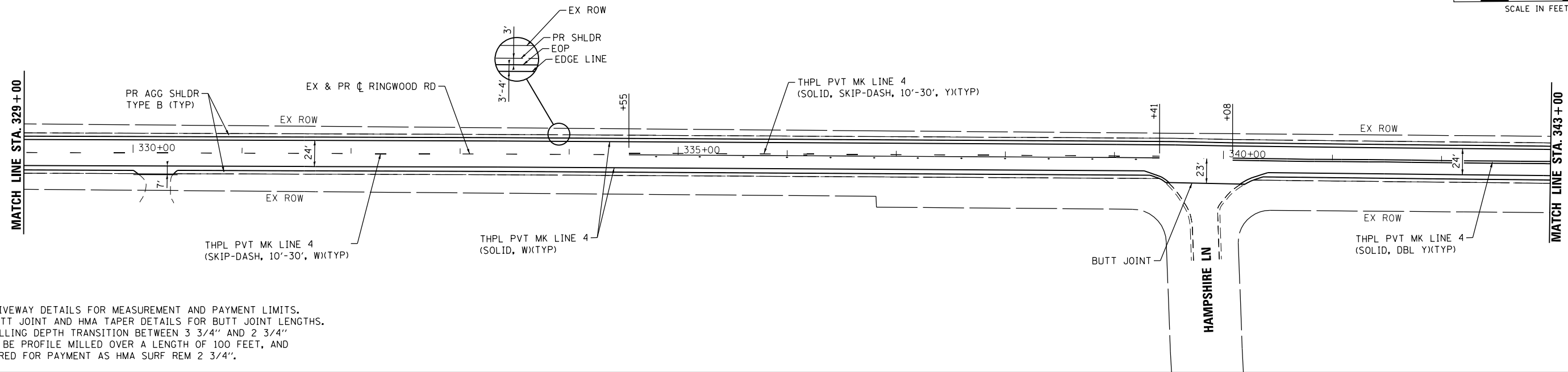
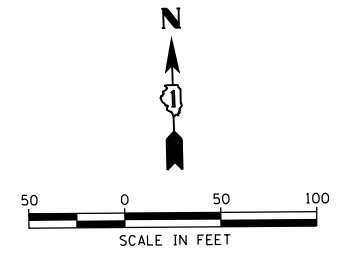
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>RINGWOOD ROAD RESURFACING PLAN</b>		F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 16
SCALE: 1"=50'	SHEET NO. 9 OF 12 SHEETS	STA. 308+00.00 TO STA. 329+00.00	CONTRACT NO. 61E36		ILLINOIS FED. AID PROJECT	

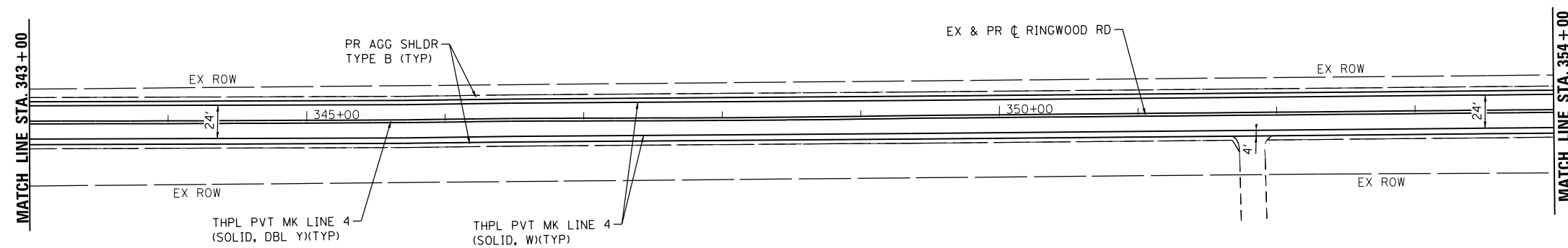
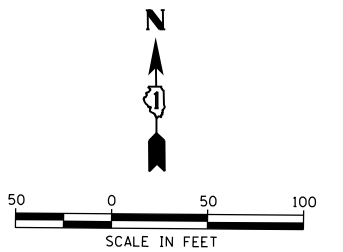
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOT AT THIS OFFICE		
	NO. _____		
	FILE NAME _____		
	PEN TABLE _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOT AT THIS OFFICE		
	NO. _____		
	FILE NAME _____		
	PEN TABLE _____		

HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plansm0.dgn  
 FILE NAME: 170709-srt-plansm0.dgn  
 PEN TABLE: p170709.tbl



- NOTES:**
- SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  - SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  - THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

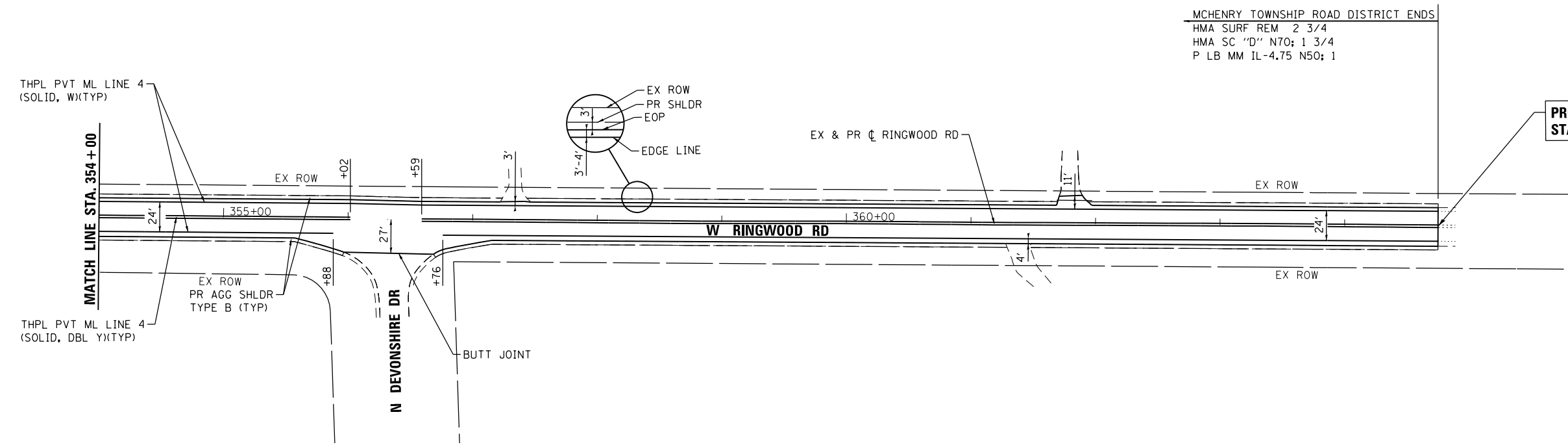
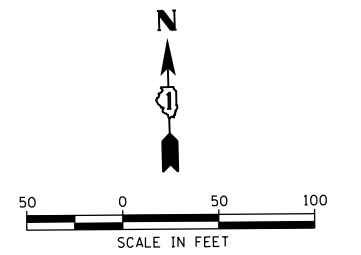
<b>RINGWOOD ROAD RESURFACING PLAN</b>	
SCALE: 1"=50'	SHEET NO. 10 OF 12 SHEETS
STA. 329+00.00 TO STA. 354+00.00	

F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 17
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61E36				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	PEN TABLE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	PEN TABLE		

HRG PROJECT NO.: 170709  
 HRG PROJ CONTACT: 170709-srt-pj@hrgreen.com  
 FILE NAME: 170709-srt-pj.dwg  
 PEN TABLE: pen.tbl



- NOTES:**
1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
  2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
  3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 11/1/2017	DATE - 11/1/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

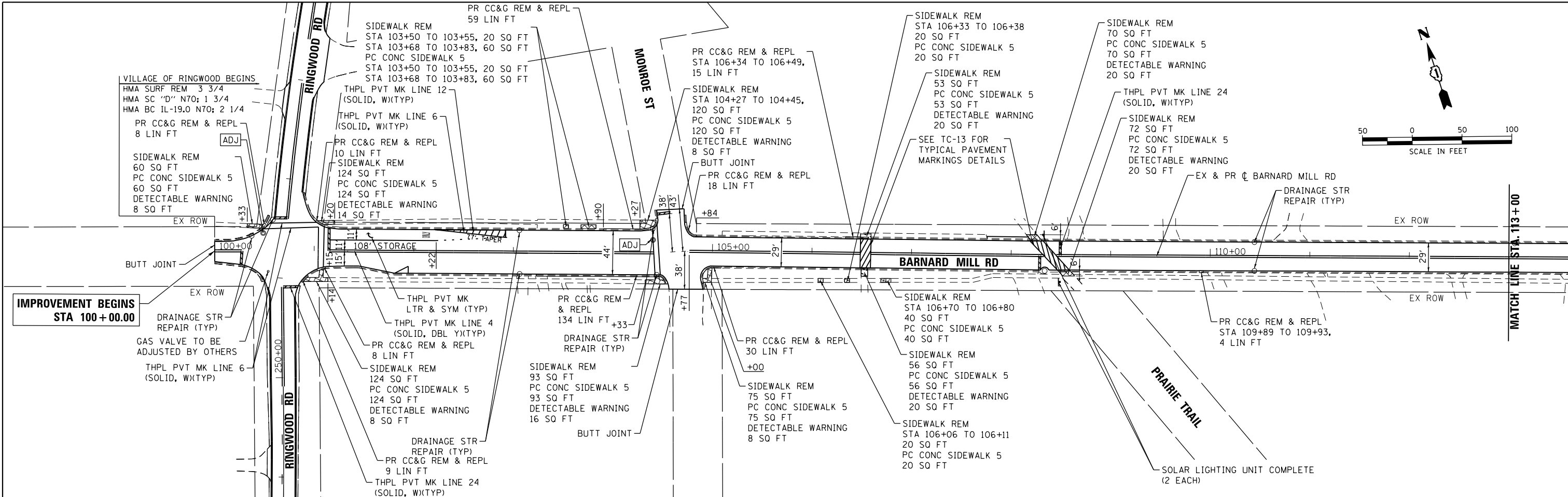
<b>RINGWOOD ROAD RESURFACING PLAN</b>	
SCALE: 1"=50'	SHEET NO. 11 OF 12 SHEETS
STA. 354+00.00 TO STA. 363+75.00	

F.A.U. RTE. 0166/4083	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 18
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61E36				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-srt-plans/12.dgn  
 FILE NAME: 170709-srt-plans/12.dgn  
 PEN TABLE: pcc/bs/bs/bs

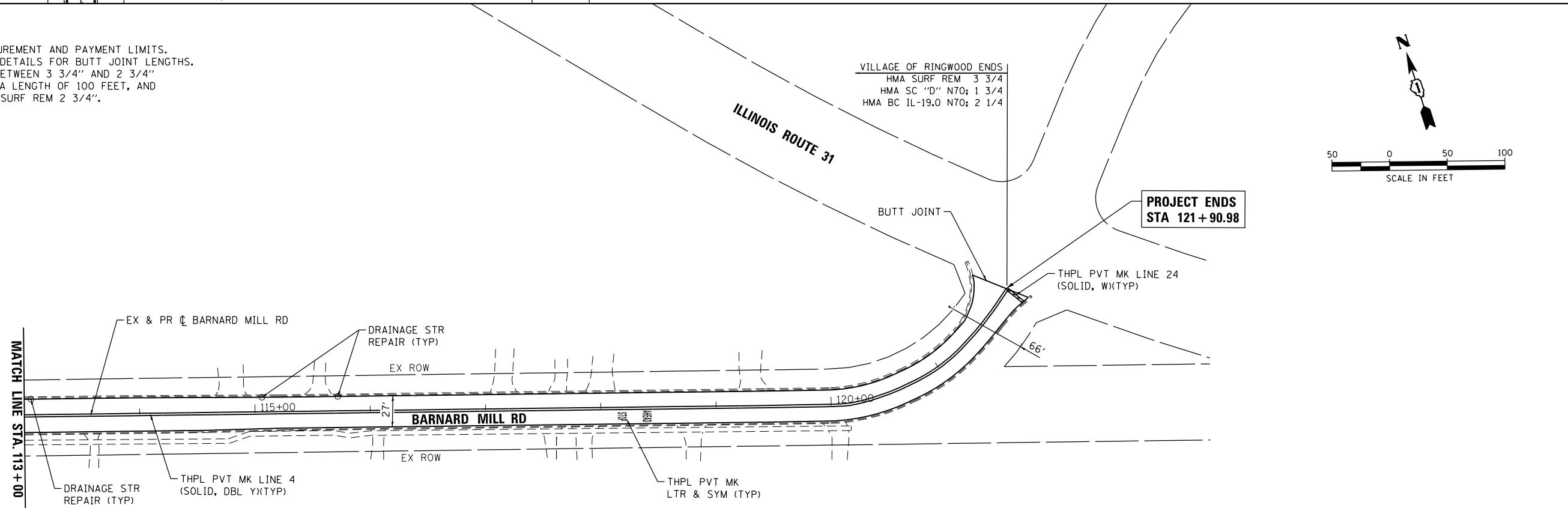


**IMPROVEMENT BEGINS  
 STA 100+00.00**

**MATCH LINE STA. 113+00**

**NOTES:**

1. SEE DRIVEWAY DETAILS FOR MEASUREMENT AND PAYMENT LIMITS.
2. SEE BUTT JOINT AND HMA TAPER DETAILS FOR BUTT JOINT LENGTHS.
3. THE MILLING DEPTH TRANSITION BETWEEN 3 3/4" AND 2 3/4" SHALL BE PROFILE MILLED OVER A LENGTH OF 100 FEET, AND MEASURED FOR PAYMENT AS HMA SURF REM 2 3/4".



**PROJECT ENDS  
 STA 121+90.98**

**MATCH LINE STA. 113+00**



USER NAME = jstrzal	DESIGNED -	REVISED -
	DRAWN - DMS	REVISED -
	CHECKED -	REVISED -
	DATE - 11/1/17	REVISED -

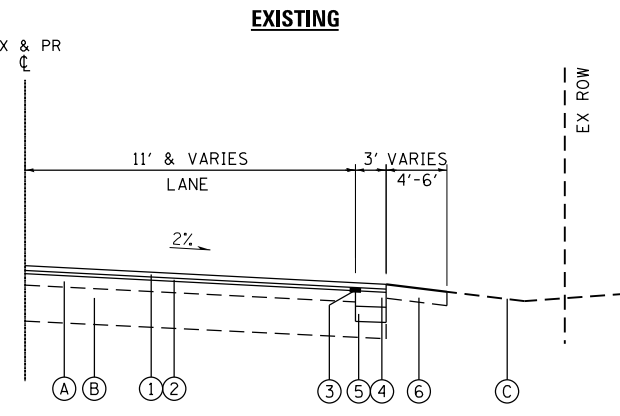
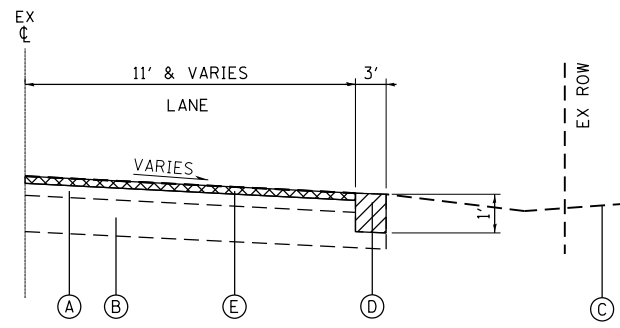
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BARNARD MILL ROAD  
 RESURFACING PLAN**

SCALE: 1"=50' SHEET NO. 12 OF 12 SHEETS STA. 100+00.00 TO STA. 122+00.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
D166/4083	17-00005-00-RS	MCHENRY	29	19
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61E36		

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
FILE	
NO.	
DATE	
BY	
FILE	
NO.	



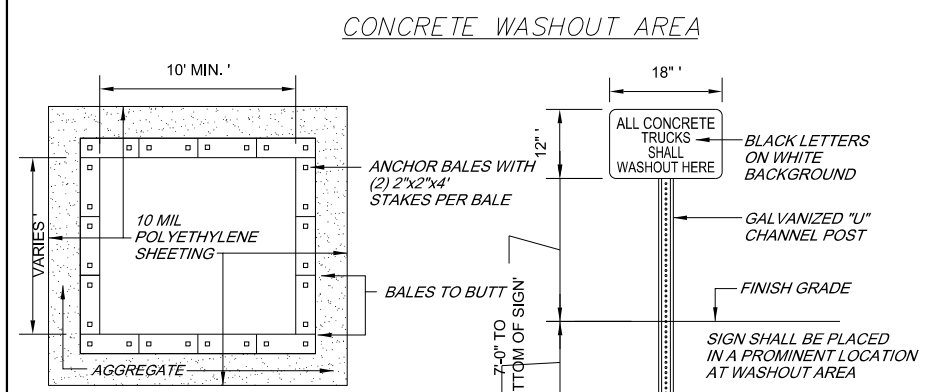
**SHOULDERS, SPECIAL**

**EXISTING LEGEND**

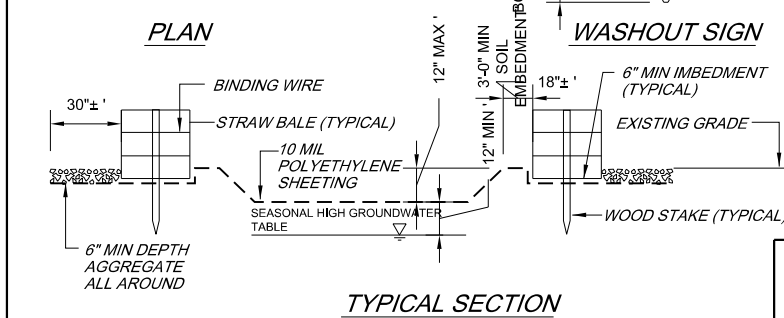
- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; ±6"
- (B) EXISTING AGGREGATE BASE COURSE; ±12"
- (C) EXISTING GROUND
- (D) AGGREGATE SHOULDER REMOVAL; 12" (PER CU YD)
- (E) HOT-MIX ASPHALT SURFACE REMOVAL; 2 3/4"

**PROPOSED LEGEND**

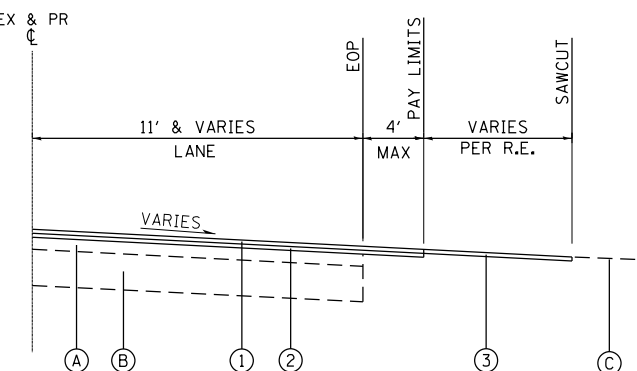
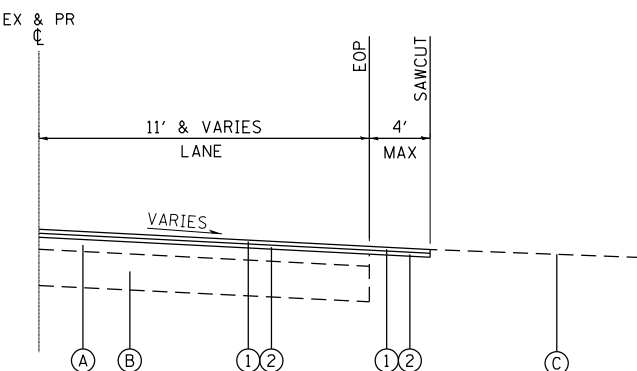
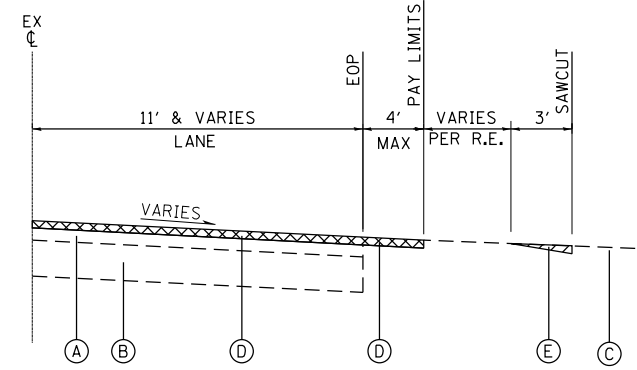
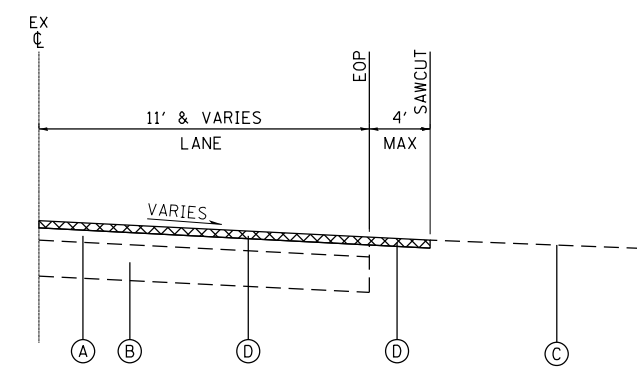
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 1 3/4" (PER TON)
- (2) POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50; 1" (PER TON)
- (3) STRIP REFLECTIVE CRACK CONTROL TREATMENT; 24" WIDTH (PER FOOT)
- (4) PORTLAND CEMENT CONCRETE BASE COURSE 6" (PAID PER SQ YD AS SHOULDERS, SPECIAL)
- (5) AGGREGATE BASE COURSE, TYPE B 6 (PAID PER SQ YD AS SHOULDERS, SPECIAL)
- (6) GRADING AND SHAPING SHOULDERS, SPECIAL (PER FOOT)



- NOTES:**
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
  2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
  3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
  4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
  5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
  6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.



DATE	
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**CASE I**

**CASE II**

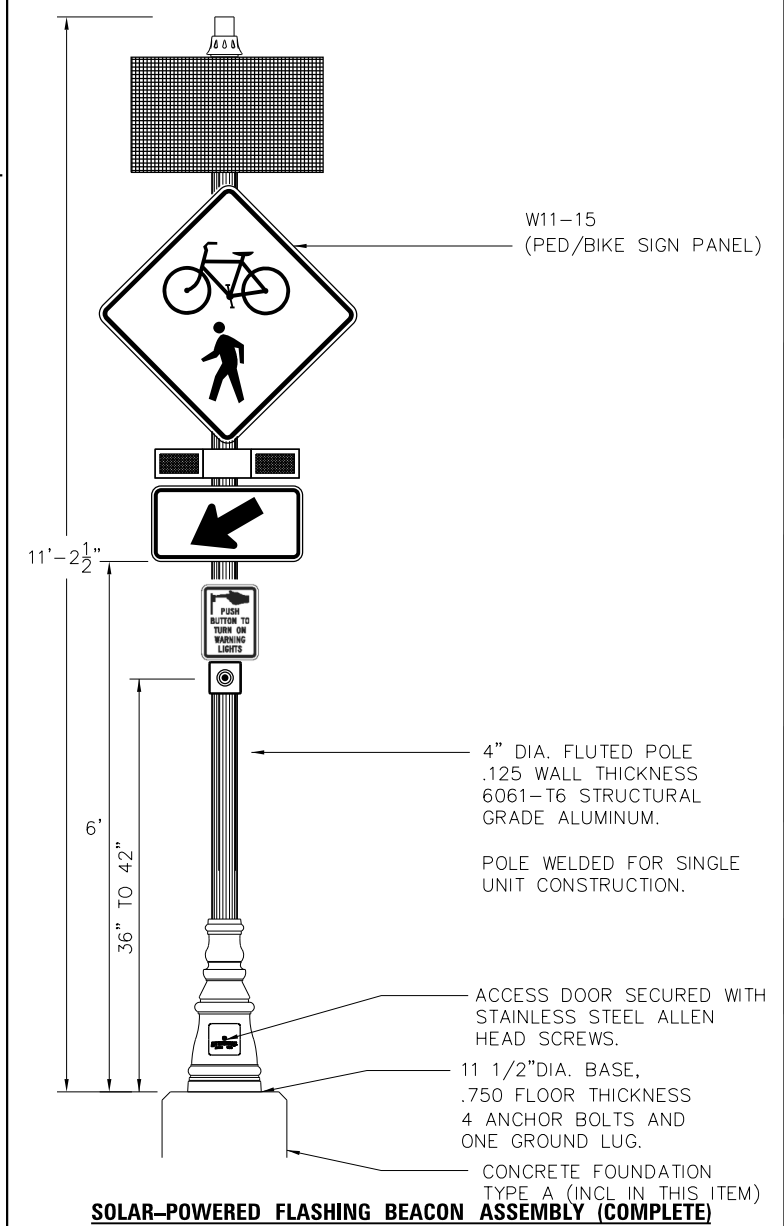
**DRIVEWAY RESURFACING DETAILS**

**EXISTING LEGEND**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; ±6"
- (B) EXISTING AGGREGATE BASE COURSE; ±12"
- (C) EXISTING DRIVEWAY PAVEMENT
- (D) HOT-MIX ASPHALT SURFACE REMOVAL; DEPTH VARIES (SEE RESURFACING PLANS)
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL (PER SQ YD)

**PROPOSED LEGEND**

- (1) PROPOSED RESURFACING; HMA SURFACE COURSE
- (2) PROPOSED RESURFACING; HMA BINDER COURSE
- (3) INCIDENTAL HOT-MIX ASPHALT SURFACING (PER TON)



**SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)**

HRG PROJECT NO.: 170709  
 HRG PROJ. CONTACT: 170709-spt-dpt-01.dgn  
 FILE NUMBER: 170709-spt-dpt-01.dgn  
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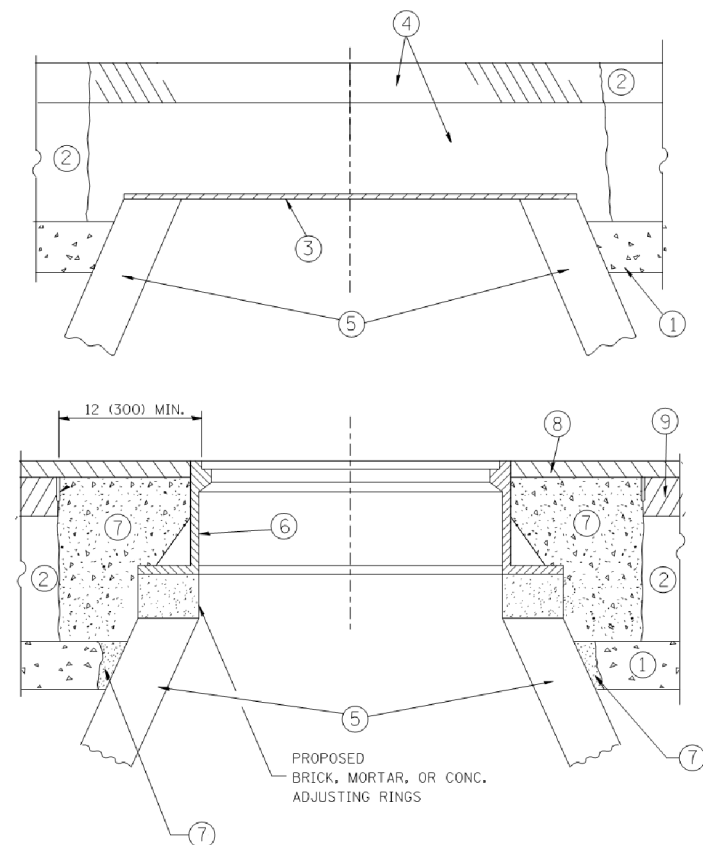
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS  
 RINGWOOD ROAD**

SCALE: N.T.S.	SHEET NO. 1 OF 9 SHEETS	STA. TO STA.	F.A.U. RTE. D166/408	SECTION NO. 17-00005-00-RS	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 20
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 61E36		



COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 11/1/2017 9:08:27 AM  
 FILE NAME: 170709-shr-det-bd08.dgn  
 PLOT DRIVER: ILpdf.plt  
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**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**CONSTRUCTION PROCEDURES**

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
  - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
  - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
  - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
  - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
  - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

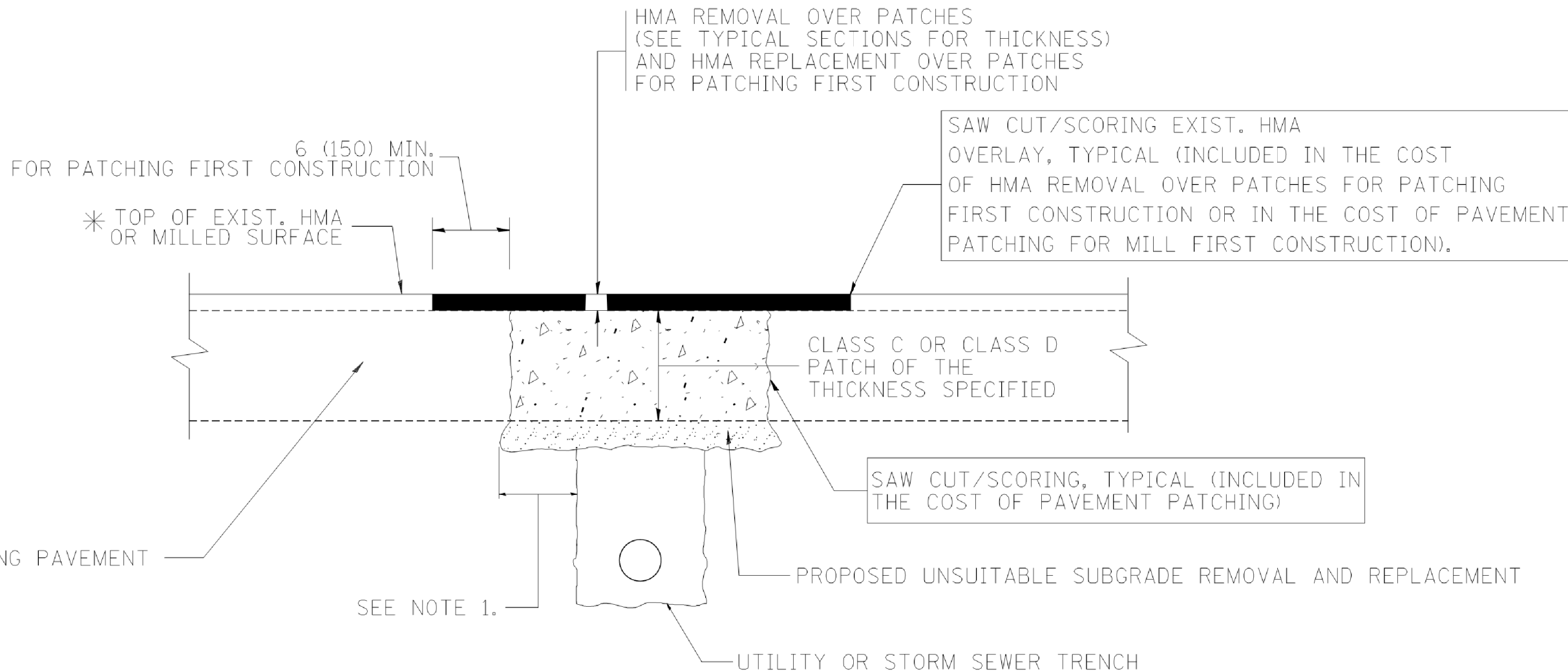
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>		F.A.U. RTE. 066/4083	SECTION 17-00005-00-R5	COUNTY MCHENRY	TOTAL SHEETS 29	SHEET NO. 21
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 61E36		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DATE - 10-25-94	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
 HMA SURFACED PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BD400-04 (BD-22)</b>		CONTRACT NO.	61E36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SEEDING, CLASS 1A WITH TOP SOIL, 4" (100) SEE NOTE 2 FOR SEED RESTORATION.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSATISFACTORY SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

② RESTORATION BEHIND THE BACK OF CURB WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT.

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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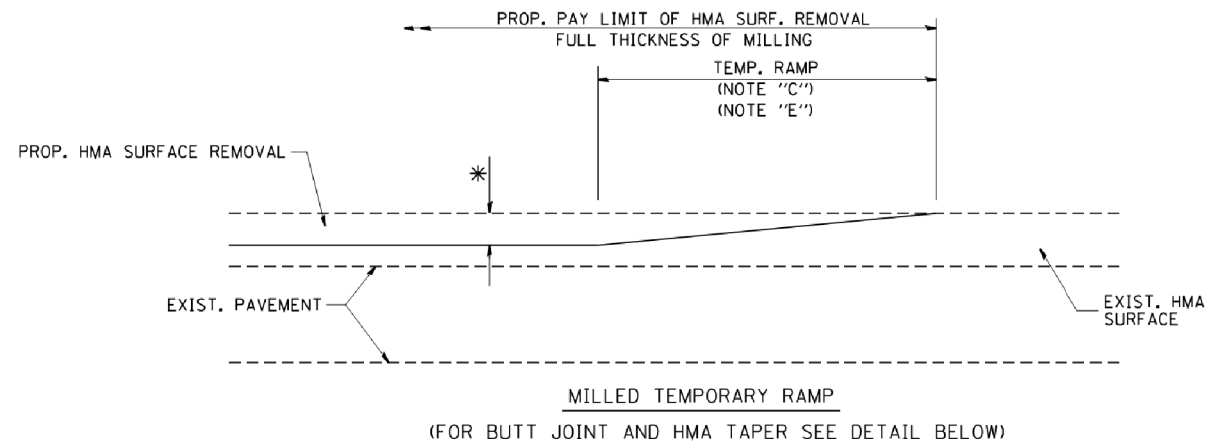
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

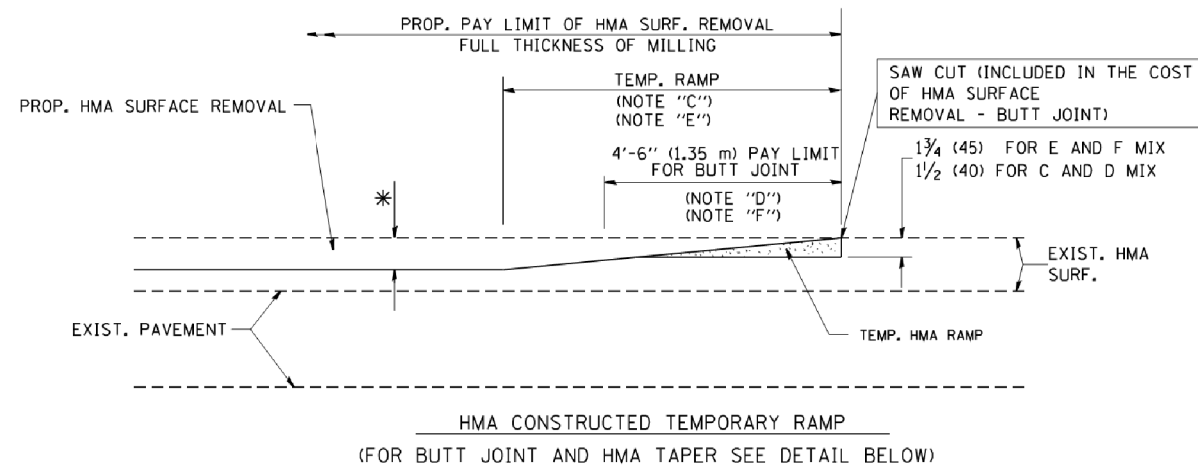
**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD600-06 (BD-24)			CONTRACT NO. 61E36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

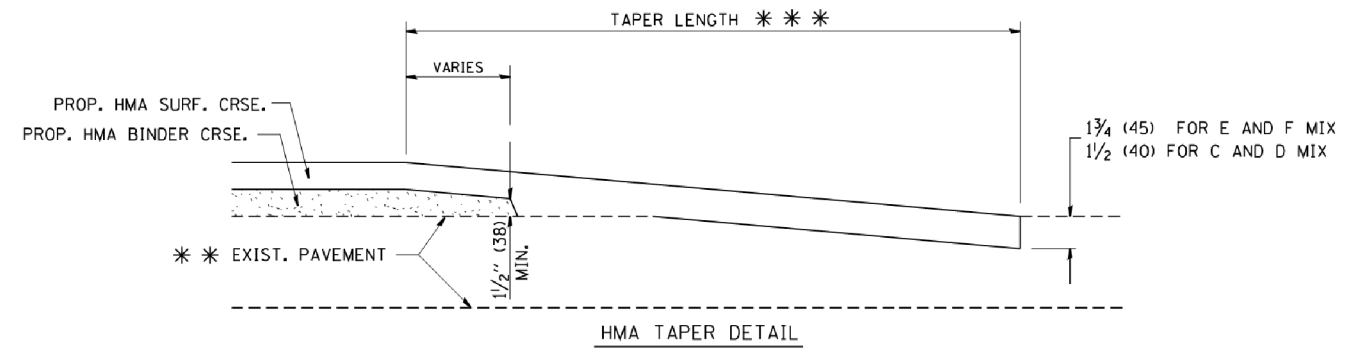
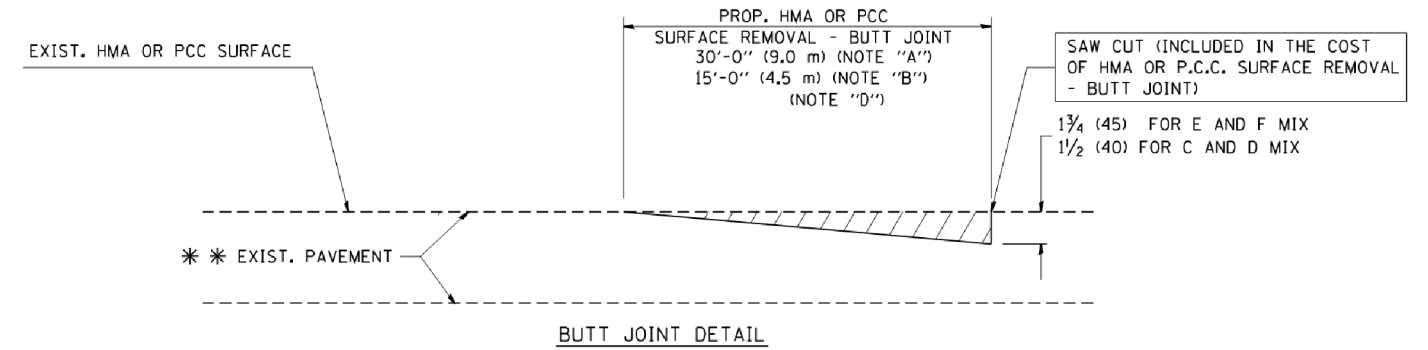


**OPTION 1**



**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

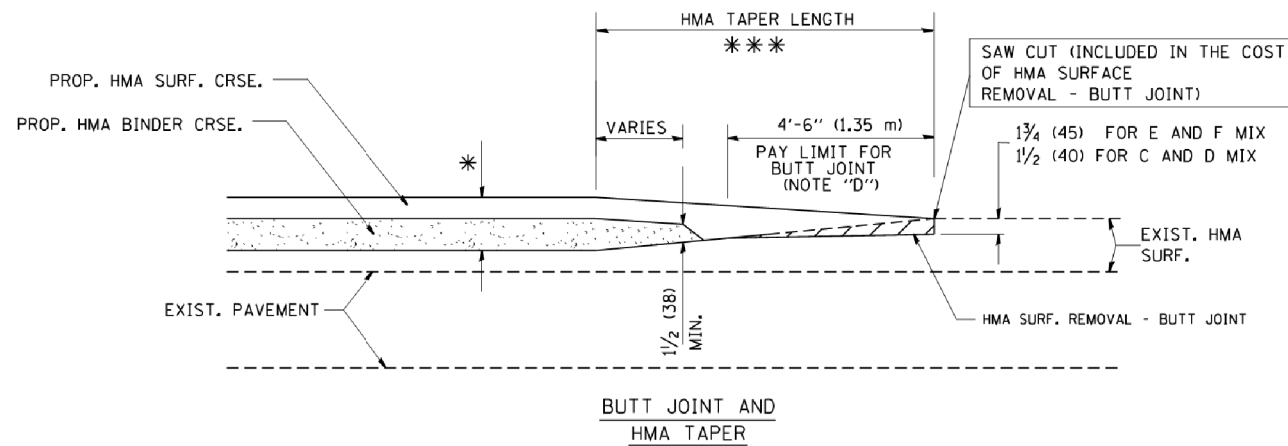
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BD400-05 BD32</b>		CONTRACT NO.	61E36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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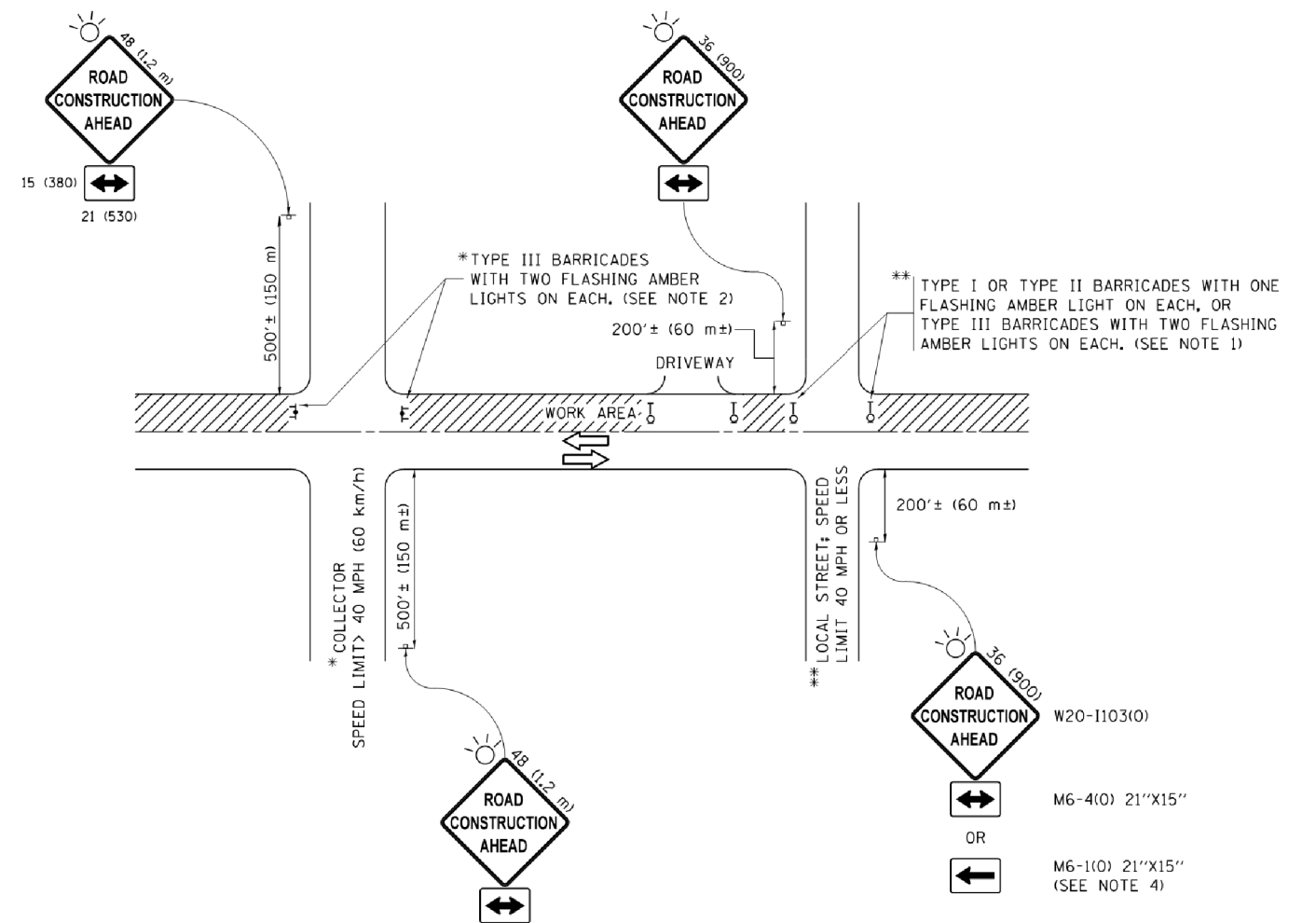
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

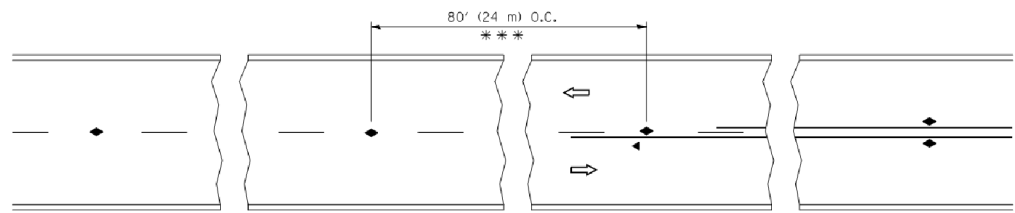
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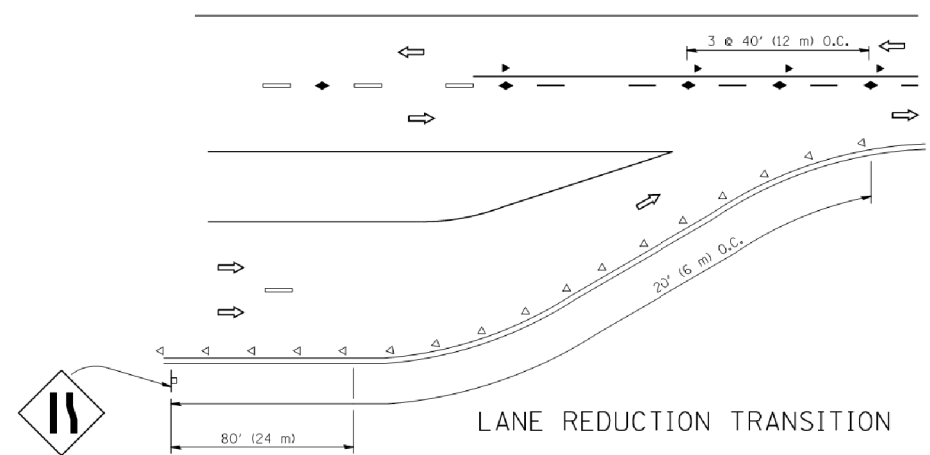
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

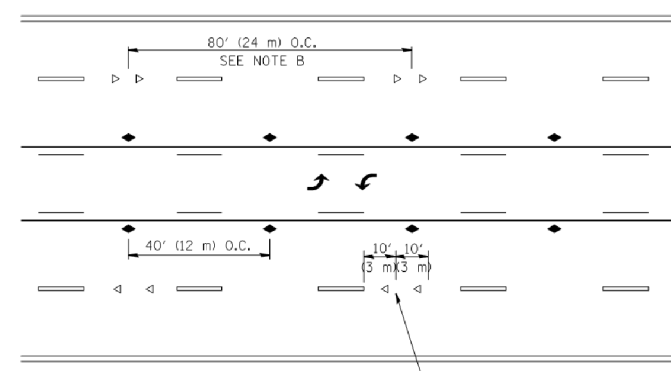


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

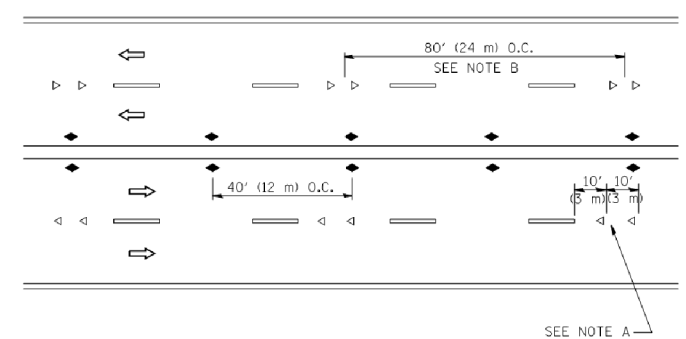


LANE REDUCTION TRANSITION



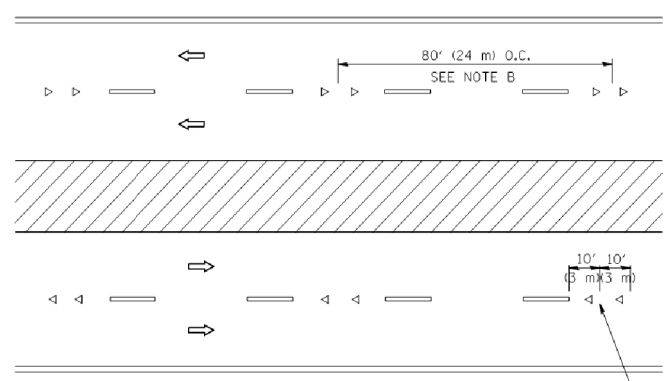
TWO-WAY LEFT TURN

SEE NOTE A



MULTI-LANE/UNDIVIDED

SEE NOTE A



MULTI-LANE/DIVIDED

SEE NOTE A

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

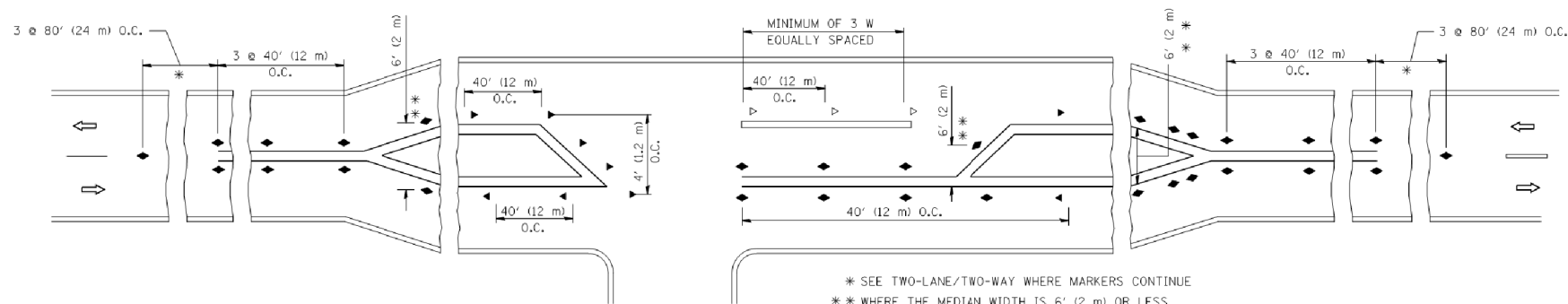
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

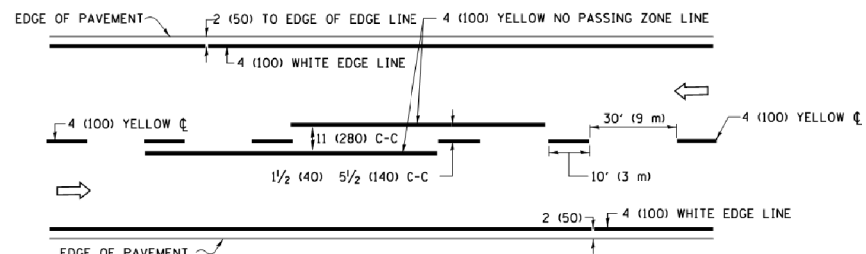
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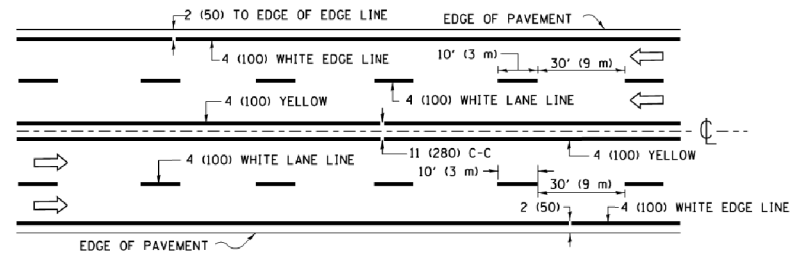
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		066/4083	17-00005-00-R5	MCHENRY	29	26
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 61E36		
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

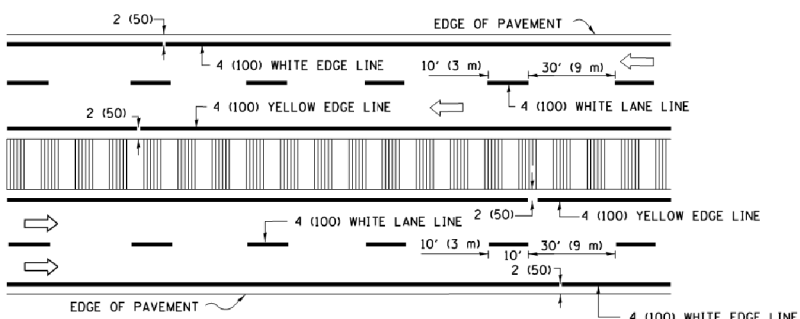




**2-LANE ROADWAY**

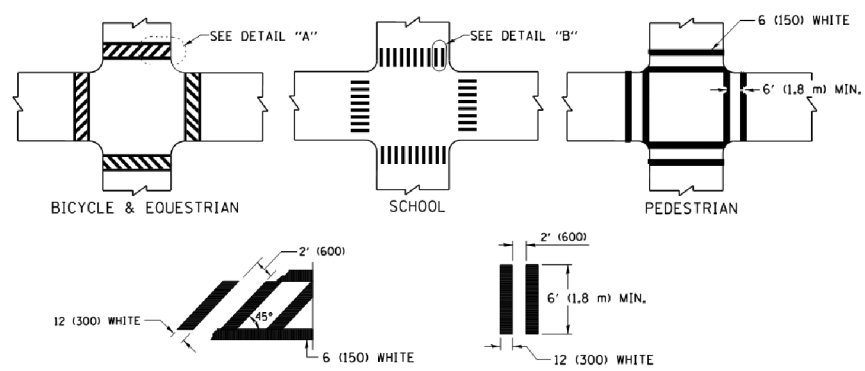


**MULTI-LANE UNDIVIDED**



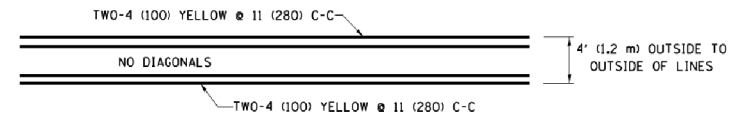
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

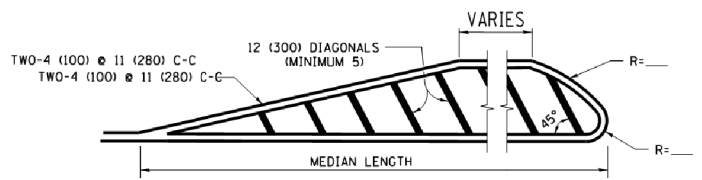


**TYPICAL CROSSWALK MARKING**

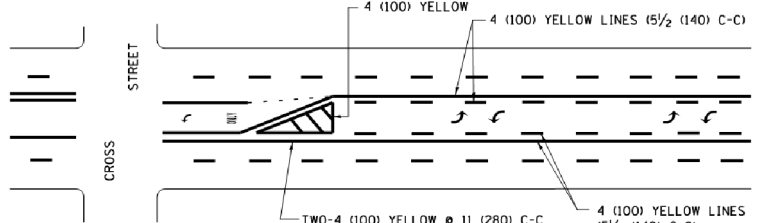
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



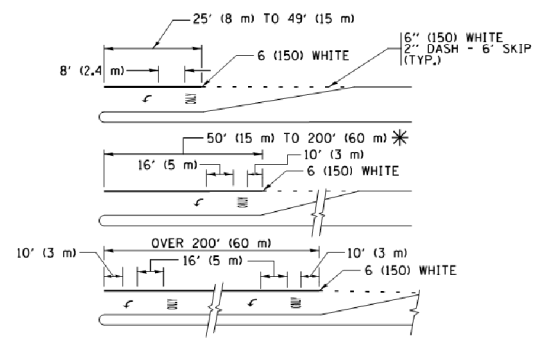
**4' (1.2 m) WIDE MEDIANS ONLY**



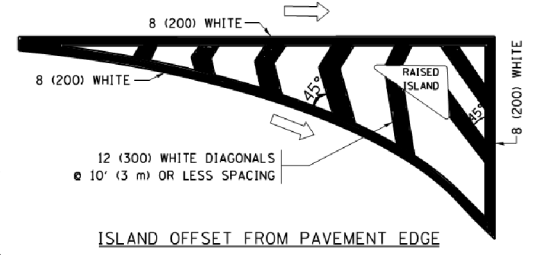
**MEDIANS OVER 4' (1.2 m) WIDE**



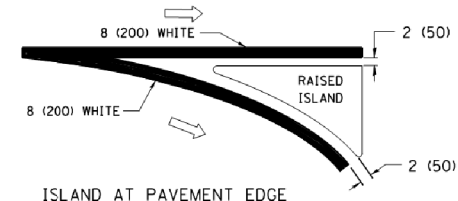
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



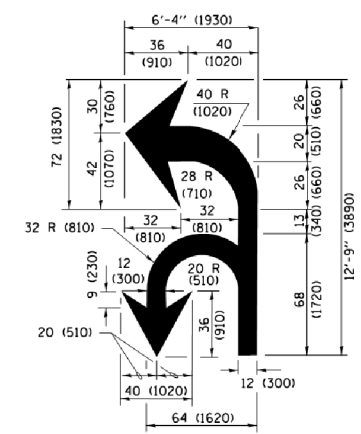
**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**



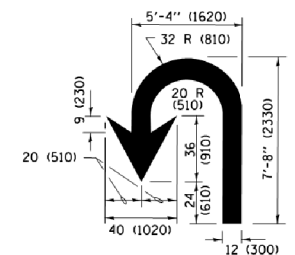
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

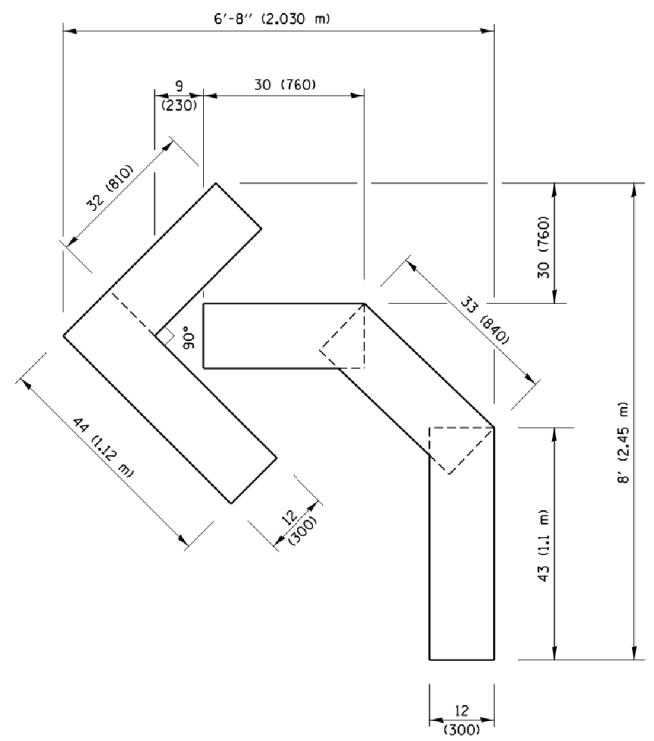
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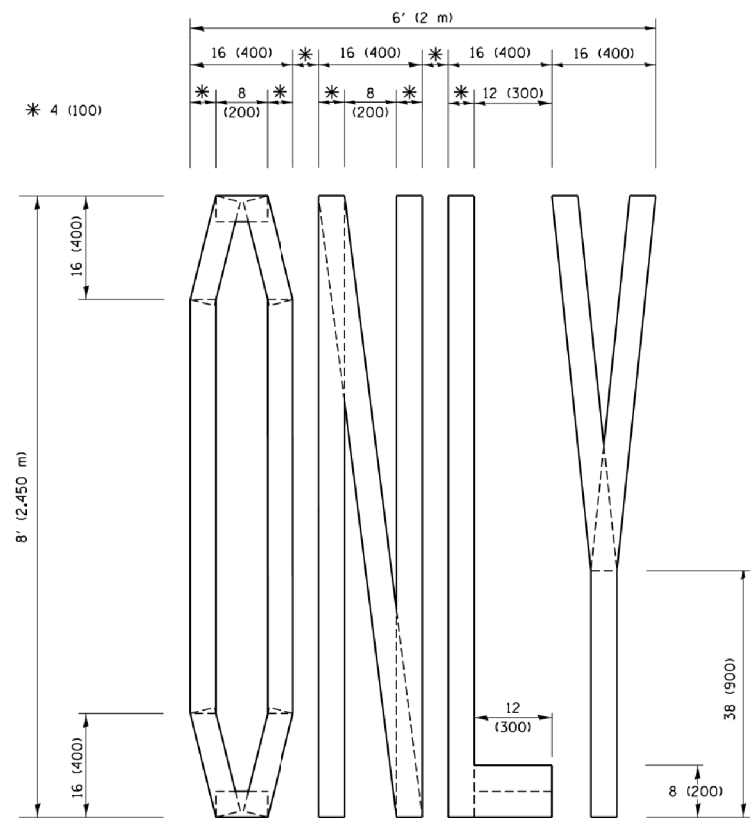
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

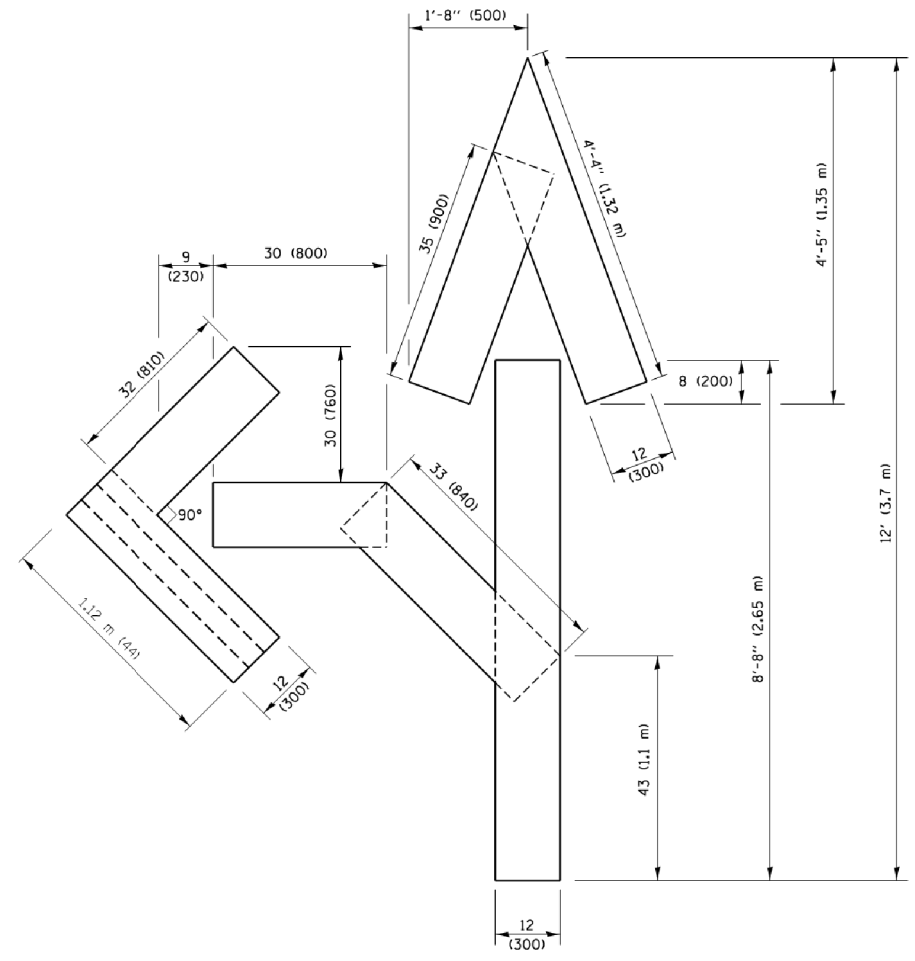
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			066/4083	17-0005-00-R5	MCHENRY	29	27
				TC-13	CONTRACT NO.		61E36
					ILLINOIS FED. AID PROJECT		



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

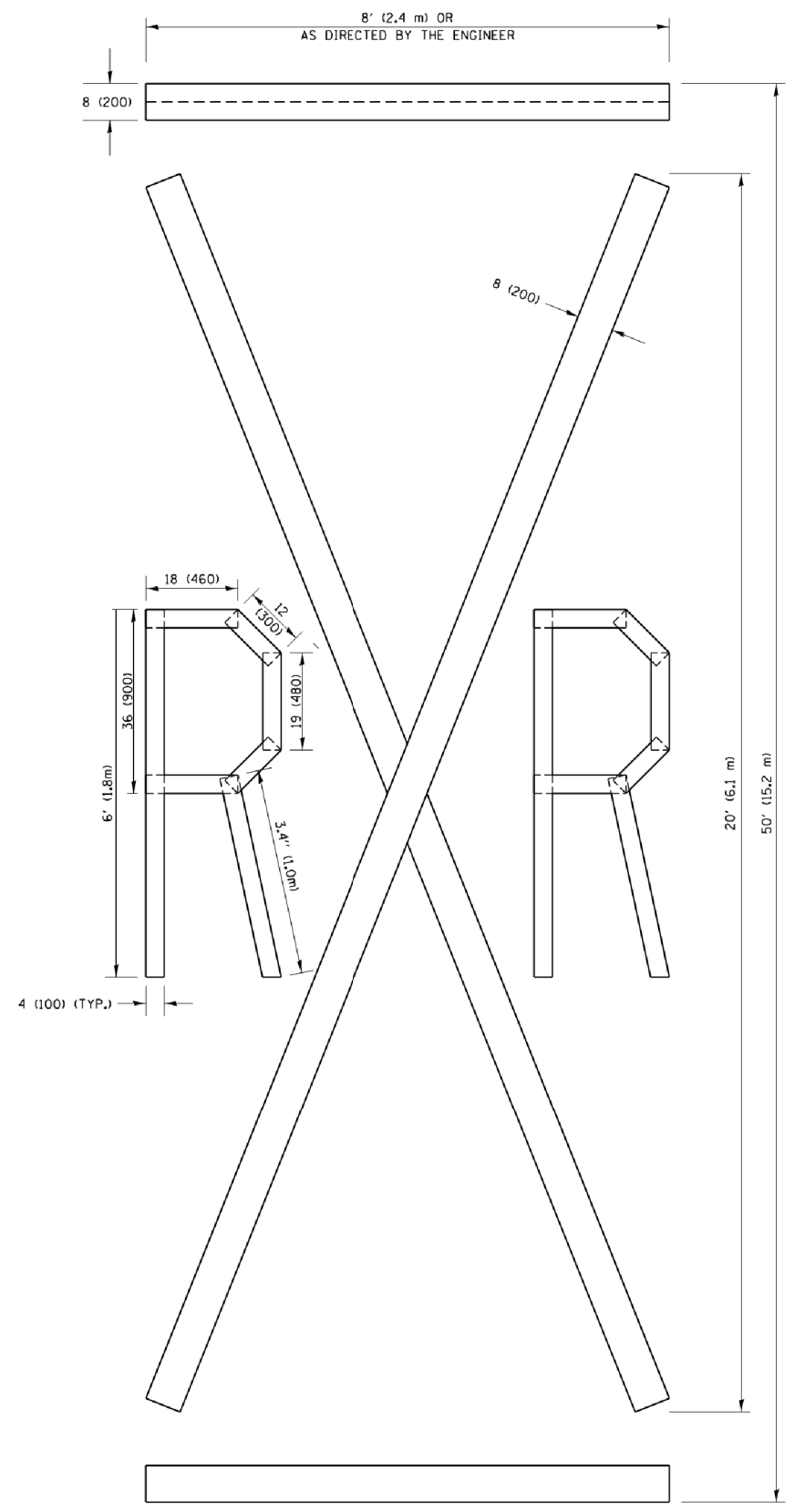


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: PROJECT CONTACTS  
 PROJECT CONTACT: PROJECT CONTACTS  
 DATE PLOTTED: 11/17/2017 9:02:20 AM  
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 PEN TABLE: plottbl.tbl

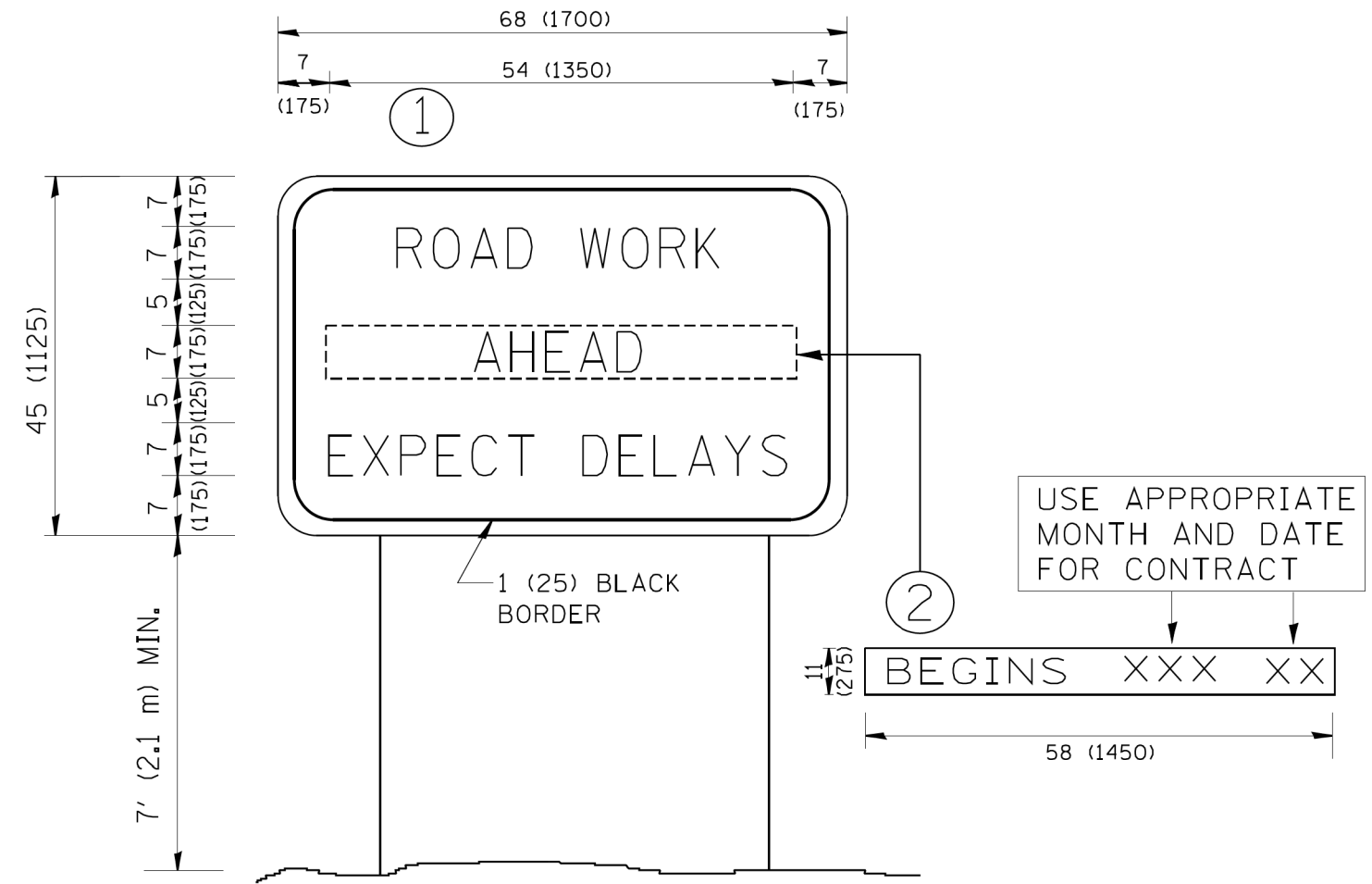
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PLOT SCALE = 50.0000' / in.		DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066/4083	17-00005-00-R5	MCHENRY	29	28
<b>TC-16</b>		<b>CONTRACT NO.</b>	61E36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

COMPANY NAME: \*COMPANY NAME\*  
 PROJECT CONTACT: \*PROJECT CONTACT\*  
 DATE PLOTTED: 11/1/2017 9:04:41 AM  
 FILE NAME: 170709-sh1-det-rc22.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plotlabel.tbl



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = geglano	DESIGNED -	REVISED - R. MIRS 09-15-97
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		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
066/4083	17-00005-00-R5	MCHENRY	29	29
TC-22		CONTRACT NO.	61E36	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				