

04-25-2025 LETTING ITEM 163

F.A.S. ROUTE 711 COUNTY HIGHWAY 25 INFRASTRUCTURE IMPROVEMENTS

SECTION 20-00099-00-RS

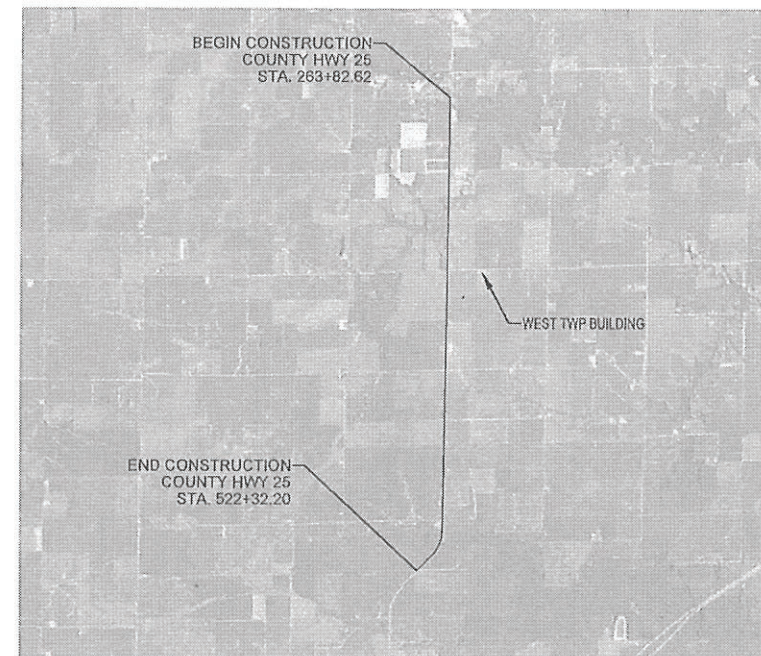
FEDERAL STR RBI/MFT/LOCAL
EFFINGHAM COUNTY, ILLINOIS
TOWNSHIP 6 NORTH, RANGE 4 EAST



County Engineer - Greg Koester, P.E. - Effingham County (217)342-5550

J.U.L.I.E.

Electric - Ameren Illinois - Sam Kassing (618)972-1965
Communications - Frontier - Kalin Hinshaw (815)895-1515
Communications - Metro - Taylor Rich (217)728-3608
Water - EJ Water Cooperative - Lee Beckman (217)347-7262
Electric - Southwestern Electric Cooperative - Natalie Goesternkors (618)553-8426
Gas Pipeline - Marathon Pipeline - Caleb Comstock (618)432-7839



LOCATION OF SECTION INDICATED THUS:

APPROVED Jan. 21, 2025

EFFINGHAM COUNTY ENGINEER

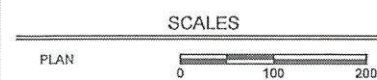
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02/18/25

DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review

02/10/25
Lore Rensung / Bhu
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGN STAGE J.U.L.I.E. DIG NUMBER

DIG # A230391742

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST CONTACT J.U.L.I.E. 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.



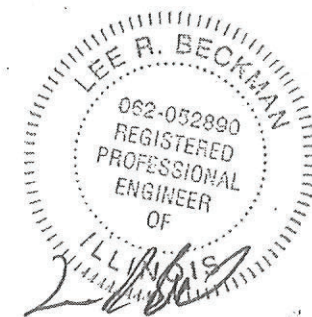
Know what's below.
Call before you dig.

Contract No. **95972** Job No. **C-97-086-23** Project No. **GJJE(976)**

LOCATION MAP
EFFINGHAM COUNTY

LENGTH OF PROJECT
COUNTY HIGHWAY 25 = 25,849.58 Feet (Omission 34.0 Feet) (4.90 Mile)
NET TOTAL = 25,815.58 Feet (4.90 Mile)

COUNTY HIGHWAY 25
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR
ADT (2018) - 950 vpd
DESIGN SPEED - 55 MPH



Lee R. Beckman
My License Expires 11-30-25

P.E. No. 52890

TITLE SHEET

COUNTY HIGHWAY 25
FINGHAM COUNTY, ILLINOIS
SECTION 20-00095-00-RS

HEET #
05-11

JOB #
23226

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARDS
3	GENERAL NOTES AND DETAIL SHEET
4	SUMMARY OF QUANTITIES SHEET
5	TYPICAL SECTION
6	SCHEDULE OF QUANTITIES
7-11	STREET PLAN SHEETS

STANDARDS

406201-01	Mailbox Turnout
701001-02	Off-Road Operations, 2L, 2W, More Than 15' (4.5 m) Away
701006-05	Off-Road Operations, 2L, 2W, 15' (4.5 m) to 24" (600 mm) from Pavement Edge
701301-04	Land Closure, 2L, 2W, Short Time Operations
701306-04	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, For Speeds $\geq$ 45 MPH
701311-03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701901-10	Traffic Control Devices
780001-05	Typical Pavement Markings
BLR 22-7	Typ. Appl. of T.C.D. for Rural Loc. Hwys. (2-Lane 2 Way Rural Traff.) (Rd. Closed to Thru Traff.)
DISTRICT 7	
DETAIL NO.	
78000001	Pavement Marking and Raised Reflective Pavement Markers (Rural and Urban Applications)

INDEX & STANDARDS SHEET						 COUNTY HIGHWAY 25 EFFINGHAM COUNTY, ILLINOIS SECTION 20-0089-0-RS
SHEET # 2 OF 11						
JOB # 23226						

1. Pavement grades shown are at the top of pavement surfaces, unless otherwise noted in the plans.
2. All elevations refer to U.S.G.S. mean sea level datum.
3. Any reference to a standard in the plans shall be interpreted to mean the edition as indicated by the sub-number listed on Sheet 2.
4. The following rates of application or units were used for calculating plan quantities:

Aggregate Base & Surface Course: 2.05 TON/CY

Asphalt Binder or Surface: 2.07 TON/CY

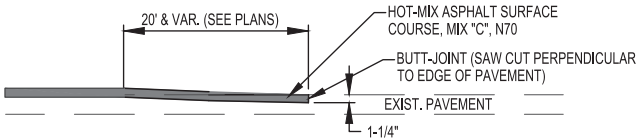
Bituminous Materials Prime Coat: 0.26 LB/SQ FT

Bituminous Materials Tack Coat: 2 x 0.025 LB/SQ FT = 0.05 LB/SQ FT

Traffic Barrier Terminal, Type 1 (Special) Tangent & Flared- The total length of this pay item was used as 50 LF - Each. Field Measurements shall correspond to this length. Contractor to adjust his quantity accordingly.
5. Removal of existing terminals shall be included guardrail removal.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:									
LOCATION(S)	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM	SUBLOT SIZE	MATERIAL TRANSFER DEVICE (REQUIRED?)
MAINLINE	HMA SURFACE COURSE, IL-9.5, MIX "C", N70 (1.5")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	N70	QCQA	3000	N/A
MAINLINE	HMA BINDER COURSE, IL-19.0, N70 (2.25")	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	N70	QCQA	3000	N/A

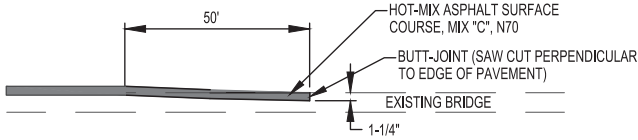
DETAIL A



RESURFACING DETAIL - END BUTT JOINT
(TYPICAL EACH END OF PROJECT)

NOTE: AGGREGATE DRIVEWAYS SHALL ALSO MEET THIS CONCEPT.
AGGREGATE SHALL REPLACE HMA FROM EOP TO TIE-IN POINT.

DETAIL B



RESURFACING DETAIL - END BUTT JOINT
(TYPICAL EACH END OF BRIDGE)

LEGEND	
○	IRON PIN FOUND
○ 1/4	1/4" IRON PIN FOUND
○ IP	IRON PIPE FOUND
○ N&W	NAIL & WASHER FOUND
○ N	NAIL FOUND
○ PK	PK NAIL FOUND
○ RR	RAILROAD SPIKE FOUND
○ T	"T" FENCE POST FOUND
○ "X"	CHISELED "X" IN CONCRETE FOUND
○ DH	DRILLED HOLE IN CONCRETE FOUND
⊗	SURVEY DISC FOUND
⬢	STONE FOUND
☼	TREE (DECIDUOUS)
★	TREE (EVERGREEN)
⊗	FIRE HYDRANT
⊗	WATER METER
— w —	WATER MAIN (EXISTING)
— w —	WATER SERVICE LINE (EXISTING)
⊗	VALVE (GAS OR WATER)
⊗	GAS METER
— G —	GAS MAIN (EXISTING)
— g —	GAS SERVICE LINE (EXISTING)
⊗ C	CABLE TV PEDESTAL
— CT —	UNDERGROUND CABLE TV (EXISTING)
⊗ T	TELEPHONE PEDESTAL
⊗	TELEPHONE MANHOLE
— T —	TELEPHONE CABLE (EXISTING)
— t —	TELEPHONE SERVICE WIRE (EXISTING)
⊗	POWER POLE
⊗	POWER POLE w/LIGHT
⊗	GUY ANCHOR
⊗	LIGHTPOLE (EXISTING)
⊗	SIDEWALK LIGHT (EXISTING)
⊗ E	ELECTRIC PEDESTAL
— DHE —	OVERHEAD ELECTRIC (EXISTING)
— E —	UNDERGROUND ELECTRIC (EXISTING)
L/S	LANDSCAPING
+	STREET SIGN (EXISTING)
⊗	SIGN (EXISTING)
⊗	FENCE POST
— x —	FENCE

REVISION ISSUED

BY

DATE

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XXX / XXX

XXX / XXX

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MILANO & GRUNLOH ENGINEERS, LLC

114 W. WASHINGTON AVE. | PO BOX 897

EFFINGHAM, IL 62401

Phone: (217) 347-7262 | (800) 677-2714

Email: mgenr@mgengineers.com

Web: www.mgengineers.com

Design Firm # 184-003108

GENERAL NOTES & DETAILS

COUNTY HIGHWAY 25

EFFINGHAM COUNTY, ILLINOIS

SECTION 20-00094-04RS

SHEET #

3 OF 11

JOB #

23226

SUMMARY OF QUANTITIES			
ITEM No.	ITEM	UNIT	QUANTITY
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	111
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	46,863
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	9,014
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	6,010
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	1,342
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	107
44000155	HOT MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	68,677
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,867
67100100	MOBILIZATION	L SUM	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	69,141
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,588
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	855
X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	715
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

COUNTY HIGHWAY 25

EFFINGHAM COUNTY, ILLINOIS

SECTION 20-00099-04RS

SHEET #

4 OF 11

JOB #

23226

MILANO & GRUNLOH ENGINEERS, LLC

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Design Firm # 184-003108



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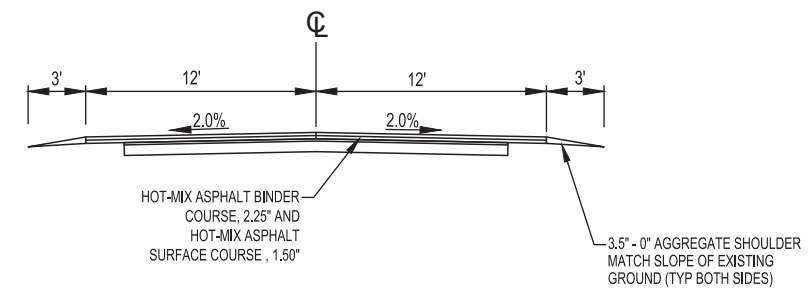
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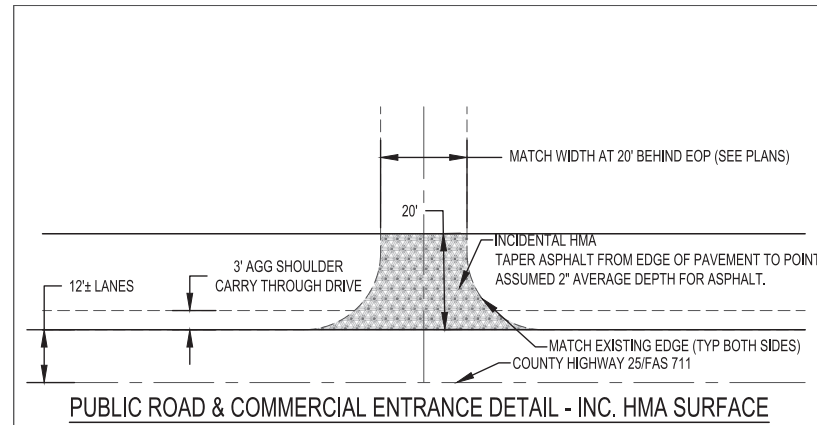
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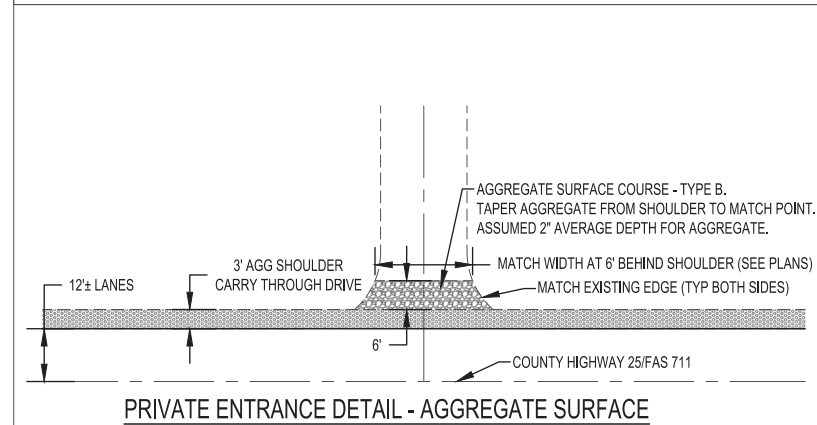
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DETAIL C



DETAIL D



JOB # 23226	SHEET # 5 OF 11		TYPICAL SHEET COUNTY HIGHWAY 25 EFFINGHAM COUNTY, ILLINOIS SECTION 20-0089-00-AS	 MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm #194-003108	FIELD BOOK XXX DRAWN BY XXX/XXX CHECKED BY XXX/XXX FILE LOCATION S:\2023\23226\DWG\TYPICAL.DWG SAVE DATE 12/11/2024 10:58	BY	DATE	REVISION ISSUED

STREET									
			BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	HOT MIX ASPHALT SURFACE REMOVAL, 1 1/2"	AGGREGATE SHOULDERS, TYPE B	AGGREGATE SHOULDER REMOVAL
			40600290	40603085	40604052	40600982	44000155	48101200	X4810200
STATION	STATION	OFFSET	POUND	TON	TON	SQ YD	TON	TON	CU YD
263+41.57	317+84.11		9,797	1,905	1,270		14,514		
319+21.40	522+32.16		36,560	7,109	4,740		54,163		
263+41.57	303+35.00	LT						146	56
264+26.89	303+64.04	RT						144	55
303+96.22	356+89.25	RT						194	74
304+14.89	356+71.73	LT						192	74
317+84.11	318+34.11					134			
318+71.40	319+21.40					134			
357+58.72	410+17.04	RT						192	74
357+74.92	400+72.73	LT						157	60
400+91.85	410+20.09	LT						35	13
411+00.48	436+53.46	LT						94	36
411+04.41	490+20.91	RT						289	111
437+62.16	522+32.16	LT						309	118
491+19.58	522+32.16	RT						115	44
TOTALS			46,357.0	9,014.0	6,010.0	268.0	68,677.0	1,867.0	715.0

PAVEMENT MARKING					
		PAINT PAVEMENT MARKING - LINE 4" (YELLOW)	PAINT PAVEMENT MARKING - LINE 4" (WHITE)	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
		78001110	78001110	70300100	70300150
LOCATION	OFFSET	FOOT	FOOT	FOOT	SQ FT
263+41.57 - 522+32.16		18,052	51,089	2588	855
TOTAL		69,141		2588	855

ENTRANCE & SIDE ROAD SCHEDULE							
				AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	INCIDENTAL HOT-MIX ASPHALT SURFACING
				40200800	40600290	40600982	40800050
STATION	STATION	TYPE	OFFSET	TON	POUND	SQ YD	TON
263+41.68	264+26.89	ROAD	RT		57	125	11
273+97.41	274+28.38	PE	LT	2			
277+22.79	277+65.53	FE	LT	2			
290+38.77	290+68.54	PE	LT	2			
301+20.54	301+49.14	PE	LT	2			
302+66.62	302+83.79	FE	RT	2			
303+35.00	304+14.89	ROAD	LT		50	109	10
303+64.04	303+96.22	ROAD	RT	6			
316+82.75	317+20.23	PE	RT	2			
319+13.62	319+74.54	MBTO	RT	3			
319+28.62	319+61.00	PE	LT	2			
328+75.69	328+85.69	FE	LT	2			
335+82.14	336+24.85	MBTO	RT	2			
336+79.65	337+13.17	PE	LT	2			
343+95.72	344+14.73	FE	RT	2			
352+63.71	352+86.32	FE	LT	2			
355+15.03	355+46.90	PE	LT	2			
356+71.73	357+74.92	ROAD	LT		69	152	14
356+89.25	357+58.72	ROAD	RT		44	97	9
357+81.09	358+16.08	PE	RT	2			
370+62.06	370+78.30	FE	LT	2			
383+65.20	383+89.95	FE	RT	2			
383+84.03	384+41.57	PE	LT		16		8
385+80.12	386+09.54	PE	LT	2			
396+65.74	397+08.52	PE	LT	3			
397+52.73	398+33.81	PE	LT	4			
399+22.68	399+81.00	PE	RT	3			
399+30.14	400+72.73	PE	LT	9			
400+72.73	400+91.85	PE	LT		4	7	1
400+91.85	402+23.41	MBTO	LT	8			
410+17.04	411+04.41	ROAD	RT		58	127	12
410+20.09	411+00.48	ROAD	LT		45	98	9
436+53.46	437+62.16	ROAD	LT		68	150	14
436+93.86	437+20.81	FE	RT	2			
443+76.39	444+22.13	PE	RT	3			
444+22.13	444+58.55	MBTO	RT	3			
454+96.96	455+08.98	PE	RT	2			
457+87.14	458+52.73	PE	LT	3			
462+10.13	462+43.73	PE	LT	2			
463+61.36	463+88.17	FE	RT	2			
464+02.12	464+44.46	PE	LT	3			
464+05.86	464+52.70	FE	RT	4			
488+05.34	488+32.02	PE	RT	2			
488+08.79	488+33.27	PE	LT	2			
490+20.91	491+19.58	ROAD	RT		60	132	12
490+46.74	490+78.63	PE	LT	2			
491+50.50	491+78.88	CE	LT	2			
492+25.69	492+56.42	PE	RT	2			
500+19.89	500+52.22	PE	LT	2			
503+91.51	504+28.21	RT	FE	3			
512+24.14	512+49.94	LT	PE	2			
521+76.33	522+32.16	ROAD	LT		35	77	7
TOTALS				111.0	506.0	1,074.0	107.0

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Design Firm # 84-003108

QUANTITIES SHEET

COUNTY HIGHWAY 25

EFFINGHAM COUNTY, ILLINOIS

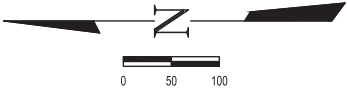
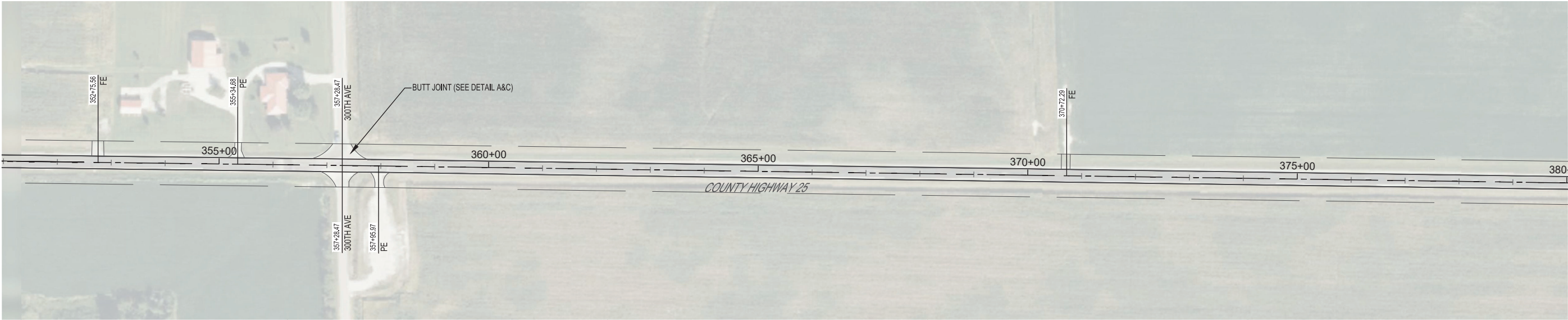
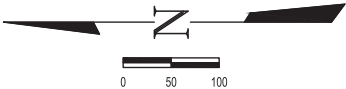
SECTION 20-00099-04RS

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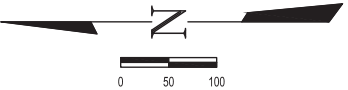
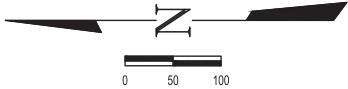
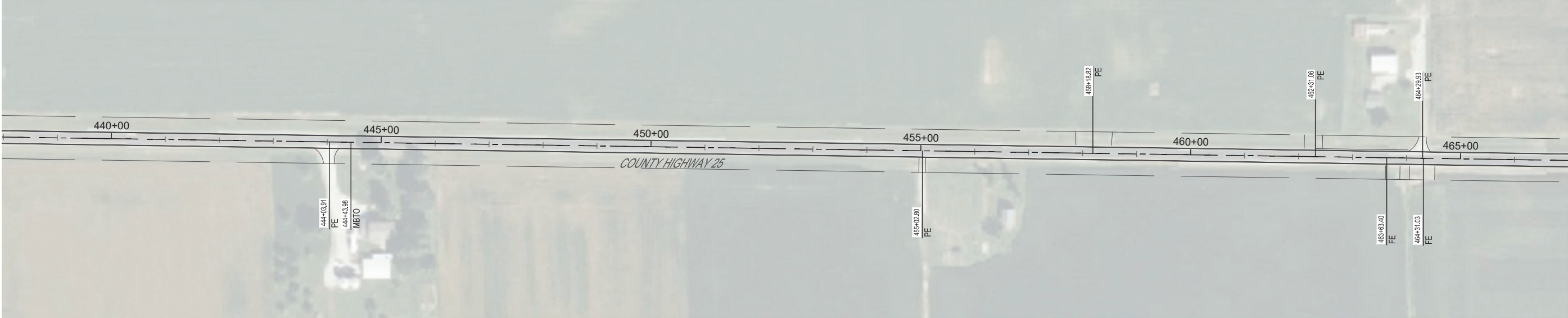
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JOB #

23226



STREET PLANS		SHEET # 8 OF 11	JOB # 23226		MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgenr@engr.com Web: www.mgenr.com Design Firm # 184-003108				FIELD BOOK	XXX	BY	DATE	REVISION ISSUED
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SHEET # 10 OF 11		COUNTY HIGHWAY 25 EFFINGHAM COUNTY, ILLINOIS SECTION 20-00099-04RS										
JOB # 23226												



STREET PLANS COUNTY HIGHWAY 25 EFFINGHAM COUNTY, ILLINOIS SECTION 20-00099-00RS		MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 184-003108		FIELD BOOK	XXX			REVISION ISSUED	
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SHEET # 11 OF 11		JOB # 23226		BY	DATE				