



DATE: March 21, 2024

FROM: Elkhart County Highway Department
610 Steury Avenue
Goshen, Indiana 46528

TO: Prospective Bidders

RE: **ADDENDUM No. 1** to the Bidding Documents for
Project #22005, CR 20 and CR 37 Southside Improvements
Middlebury, Elkhart County

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Please acknowledge receipt of the Addendum in the space provided in the Bid Form. Failure to do so may subject the Bidder to disqualification.

This **Addendum No. 1** consists of fifteen (15) pages.



ITEMIZED PROPOSAL:

Replace the Itemized Proposal with the revised Itemized Proposal included with this addendum.

Itemized Proposal revisions include:

- Update Item #5 to remove 203 reference and change EXCAVATION, COMMON to EARTHWORK
- Update Item #13 to 1698 TON
- Update Item #49 change CONTROLLER AND CABINET, P1 to CONTROLLER AND CABINET, TYPE R W/ UPS ATTACHED TO CABINET
- Remove Item #72
- Add Item CCTV ASSEMBLY 1 EACH

SUBMITTED CONTRACTOR QUESTIONS & RESPONSES:

1. Q: I'm having a problem coming up with the aggregate shoulder quantity of 3,486 tons nor does the agg shoulder dimensions make any since on the table, as the shoulder is illustrated on the plans to be 2' with 4:1 taper at approx. 7.5" which would be just less than half the bid quantity.

A: The Compacted Aggregate, No. 53 quantity is 1698 TONS.

PROJECT TECHNICAL SPECIFICATIONS:

TP14 – Traffic Signal add additional language:

UNINTERRUPTIBLE POWER SUPPLY

The power supply unit shall be capable of handling surges and spikes present in normal utility power. Battery backup of up to 12 hours should be provided for power outages. The power supply unit shall have remote monitoring capabilities. The power supply unit and battery backup shall be housed in a separate cabinet mounted to the side of the traffic signal cabinet. An automatic transfer switch shall be included.

All equipment shall be fully compatible with Elkhart County approved traffic signal controllers, to the satisfaction of the Engineer. The cost of any additional equipment or labor to install this equipment shall be included in the cost of the following pay item:

Pay Item	Pay Unit Symbol
Controller and Cabinet, Type R, w/ UPS Attached to Cabinet.....	EACH



County Road 20 at 37 Improvement Project

Pre-Bid Meeting Agenda
March 15, 2024, 1:00 PM
610 Steury Ave, Goshen IN

1. Introductions

- County / Town Staff & Roles
 - Primary Contact: Project Engineer/Inspector: Brian Hendsbee, P.E. bhendsbee@elkcohw.org (574) 533-0538 office; (574) 349-4248 cell
 - County Engineer: Charlie McKenzie, P.E. cmckenzie@elkcohw.org (574) 533-0538 office
 - Design Engineer: Barbie Swihart Stutzman, P.E., Lochmueller Group; bstutzman@lochgroup.com (574) 334-5479
- Please use the sign in sheet

2. Utility Project Description – **Prior to Road construction, separate contract**

- Installation of water main on CR 20 from CR 27 to SR 13 (North lane)
- Installation of sanitary sewer on CR 20 from roughly 700 east of CR 37 to SR 13 (South lane)
- Rough grading to subbase layer elevation
- Full-depth reclaiming of asphalt west of CR 37 through SR 13 (County road project limits)
- MOT provided/initiated as part of utility work – Contractor shall coordinate with Utility Project Contractor to ensure a successful transition between MOT subcontractors
- Schedule
 - Begin work on April 1, 2024
 - Completion June 1, 2024

3. County Road Project – **This contract**

- Bids will be received on March 25th
- Project Schedule
 - Phase 1
 - Scope – restore pavement to existing width through binder course
NOTE - AT PROPOSED PROFILE
 - Install underground storm sewer and board/bury where necessary
 - Complete temporary drive tie ins
 - Begin June 1, 2024
 - Complete August 1, 2024 – open to traffic
- R/W Clearing Phase – 10/1/2024 – 11/1/2024



- i. Begin immediate following the completion of right of way acquisition by the County
 - Phase 2
 - i. Scope – Widening, final HMA surface, traffic signal, drainage improvements
 1. Begin 4/1/25 – Closure allowed
 2. Complete 7/1/25
4. Important Dates
 - Bids are due Monday, March 25th, 2024 at 9:00 a.m., at the Commissioner’s office, 117 N 2nd Street in Downtown Goshen. Not the Highway office.
 - Questions will be answered until 12:00 noon Friday 22nd, 2024. All questions will be answered via addendum. Please check the website for an addendum at the close of business on Friday.
 - Start Date – **June 1, 2024**
 - Phase 1 Intermediate Completion Date – **August 1, 2024**
 - R/W Clearing Intermediate Completion Date – **November 1, 2024**
 - Substantial Completion Date – **July 1, 2025**
 - Final Completion Date – **November 1, 2025**, \$3000/ day Liquidated damages.
 - No weather delays considered for contract extension
 - Any addendums will be posted on the website, www.elkcohw.org. Please acknowledge them on the bid form.
 - Minutes for this meeting will be posted on the website. No notifications will be sent. Please check the website.
5. Utilities – *NTP to be given prior to 11/1/2024 to allow for immediate start or work.*
 - NIPSCO
 - Relocation entire south side of CR 20
 - Relocation of two newly installed transmission poles
 - 90-day work plan
 - Elkhart County Fiber
 - 17 day work plan
 - Hand holes on North side of road and short run near SR 13
 - Surf
 - Relocation along south side of road
 - Waiting on work plan / schedule
 - Frontier
 - Bore north side of CR 20, entire length
 - 60-day work plan
 - Water/Sewer new installation to be complete prior to start date



- NIPSCO Gas
 - Bore 4 inch on south side of CR 20, entire length
 - 60 days preconstruction; 60-day work plan
 - Contractor shall be responsible for verifying locations and depths of any and all utilities and any additional utility coordination required.
6. Right-of-Way
- Right-of-Way for widening and utility relocation will be acquired by 10/1/2024, conservatively
7. Pay Estimates
- All pay estimates will have a 10% retainage
 - Pay applications may be submitted monthly
8. General items
- Special Right-of-Way Conditions bid Item. This item is to cover unforeseen conditions. This amount is budgetary only, and any extra work must be approved via a change order at an agreed cost.
 - Undistributed items for subgrade treatment will be used at Engineer's discretion and must be cleared prior to use.
 - Maintenance of Traffic Special Provision – we intend to enforce it.
 - Maintenance Bond for 3 years after the completion of the project.
9. Permits
- The county has obtained coverage under the GSGP (WIP). Contractor will need to furnish SWPPP inspector for storm and weekly reporting after bid selection.
 - Contractor will work with county and electrical service to establish power for signal
 - INDOT construction Permit
 - County consultant will obtain driveway permit for approach and signal work at SR 13
 - Contractor is required to coordinate with INDOT on construction
 - SR 13 must remain open to traffic throughout

Contractor Questions & Answers Through Thursday (3/21/2024)

Q: The #53's for the project do they have to be CAPP certified or just meet the gradation for INDOT #53's? Can we use local gravel #53's or recycled concrete #53's?

A: For Pay items 9 2's Undistributed (301), 10 base (301), and 11 base undistributed (301), local gravel or recycled concrete are acceptable as long as they meet a #53 gradation. For item 13 (303), shoulders the county requires limestone #53's



END OF ADDENDUM NO. 1

**CONTRACTOR SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM AS PART OF
THE SUBMITTED BID DOCUMENTS**

CR 20 AND CR 37 SOUTHSIDE IMPROVEMENTS - ELKHART COUNTY PROJECT NO. 22005 **BID DOCUMENTS**

Contractor _____

<p style="text-align: center;">ELKHART COUNTY, INDIANA BOARD OF COUNTY COMMISSIONERS CR 20 AND CR 37 SOUTHSIDE IMPROVEMENTS – ELKHART COUNTY PROJECT NO. 22005 ITEMIZED PROPOSAL</p>						
NO.	Spec. Section	Description	Quantity	Unit	Unit Price	Extension
1	105	CONSTRUCTION ENGINEERING	1.00	LS		
2	110	MOBILIZATION AND DEMOBILIZATION	1.00	LS		
3	201/TP1	CLEARING RIGHT OF WAY	1.00	LS		
4	TP12	SPECIAL RIGHT OF WAY CONDITION	1.00	LS	\$150,000	
5	TP3	EARTHWORK	1.00	LS		
6	203/TP3	EXCAVATION, COMMON (UNDISTRIBUTED)	78.00	CYS		
7	207/TP5	SUBGRADE TREATMENT, TYPE II	986.00	SYS		
8	214/TP6	GEOGRID, TYPE IB (UNDISTRIBUTED)	117.00	SYS		
9	301/TP6	COMPACTED AGGREGATE NO. 2 (UNDISTRIBUTED)	117.00	CYS		
10	301/TP6	COMPACTED AGGREGATE NO. 53	2355.00	CYS		
11	301/TP6	COMPACTED AGGREGATE NO 53 (UNDISTRIBUTED)	78.00	CYS		
12	302/TP6	DENSE GRADED SUBBASE	165.00	CYS		
13	303/TP6	COMPACTED AGGREGATE NO. 53	1698.00	TON		
14	304/TP7	WIDENING WITH HMA, TYPE C	1279.00	TON		
15	306	MILLING, ASPHALT, 1 1/2 IN.	343.00	SYS		
16	306	MILLING, ASPHALT, 4 IN.	1692.00	SYS		
17	306	MILLING, TRANSITION	113.00	SYS		
18	401/TP7	HMA SURFACE, TYPE C, 9.5 MM	1730.00	TON		
19	401/TP7	HMA INTERMEDIATE, TYPE C, 19.0 MM	1977.00	TON		
20	401/TP7	HMA BASE, TYPE C, 25.0 MM	3202.00	TON		
21	610/TP7	HMA FOR APPROACHES, TYPE C	567.00	TON		
22	610	PCCP FOR APPROACHES, 6 IN.	986.00	SYS		
23	611	MAILBOX ASSEMBLY, SINGLE	19.00	EACH		
24	616	RIPRAP, REVETMENT	46.00	TON		
25	616	GEOTEXTILE FOR RIPRAP TYPE 1B	57.00	SYS		
26	616/TP4	INSPECTION HOLE	5.00	EACH		
27	621	MOBILIZATION AND DEMOBILIZATION FOR SEEDING	1.00	EACH		
28	621	MULCHED SEEDING R	16492.00	SYS		
29	621	SODDING	522.00	SYS		
30	715/TP9	PIPE, TYPE 2, CIRCULAR, 15 IN.	1167.00	LFT		

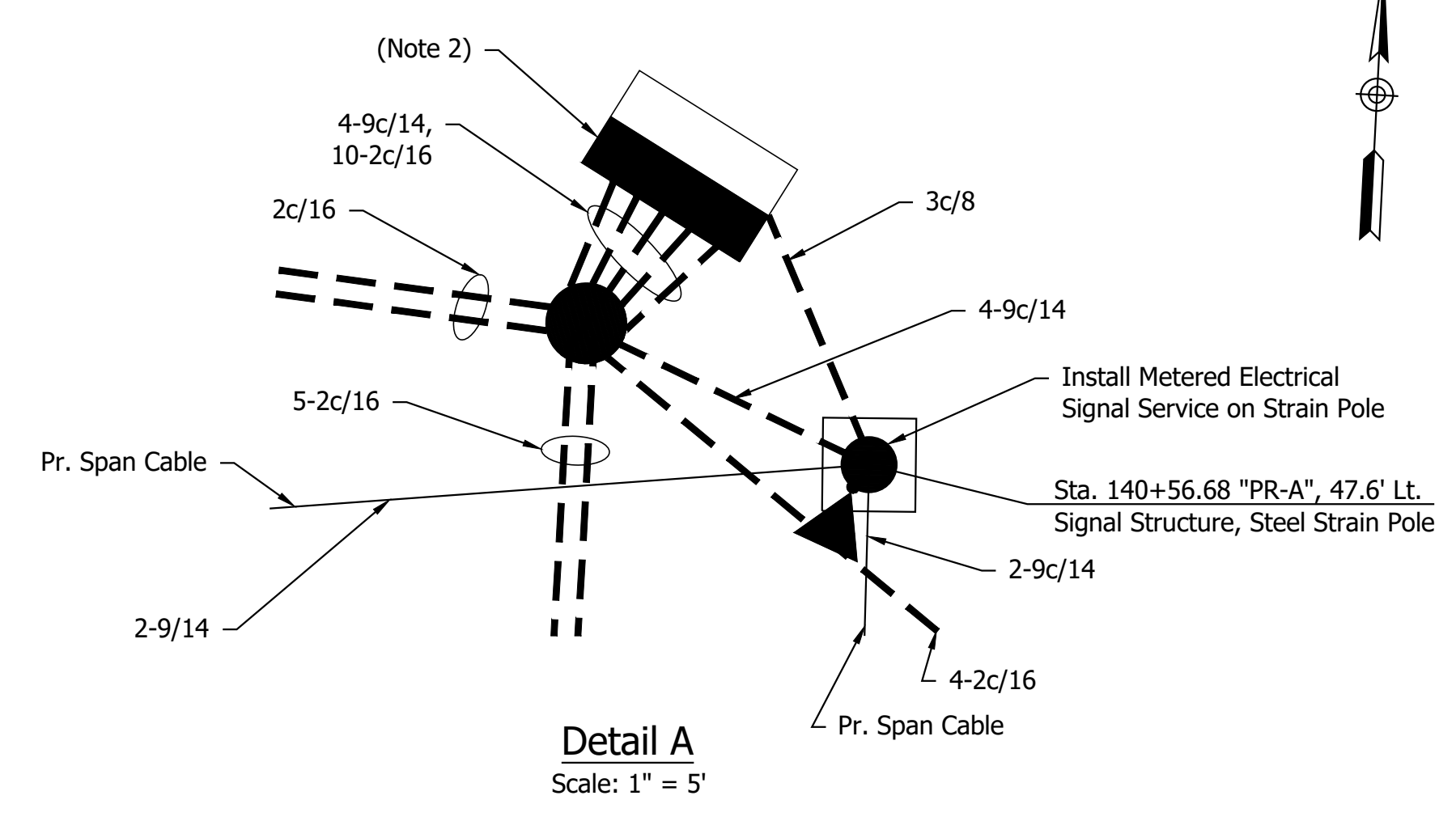
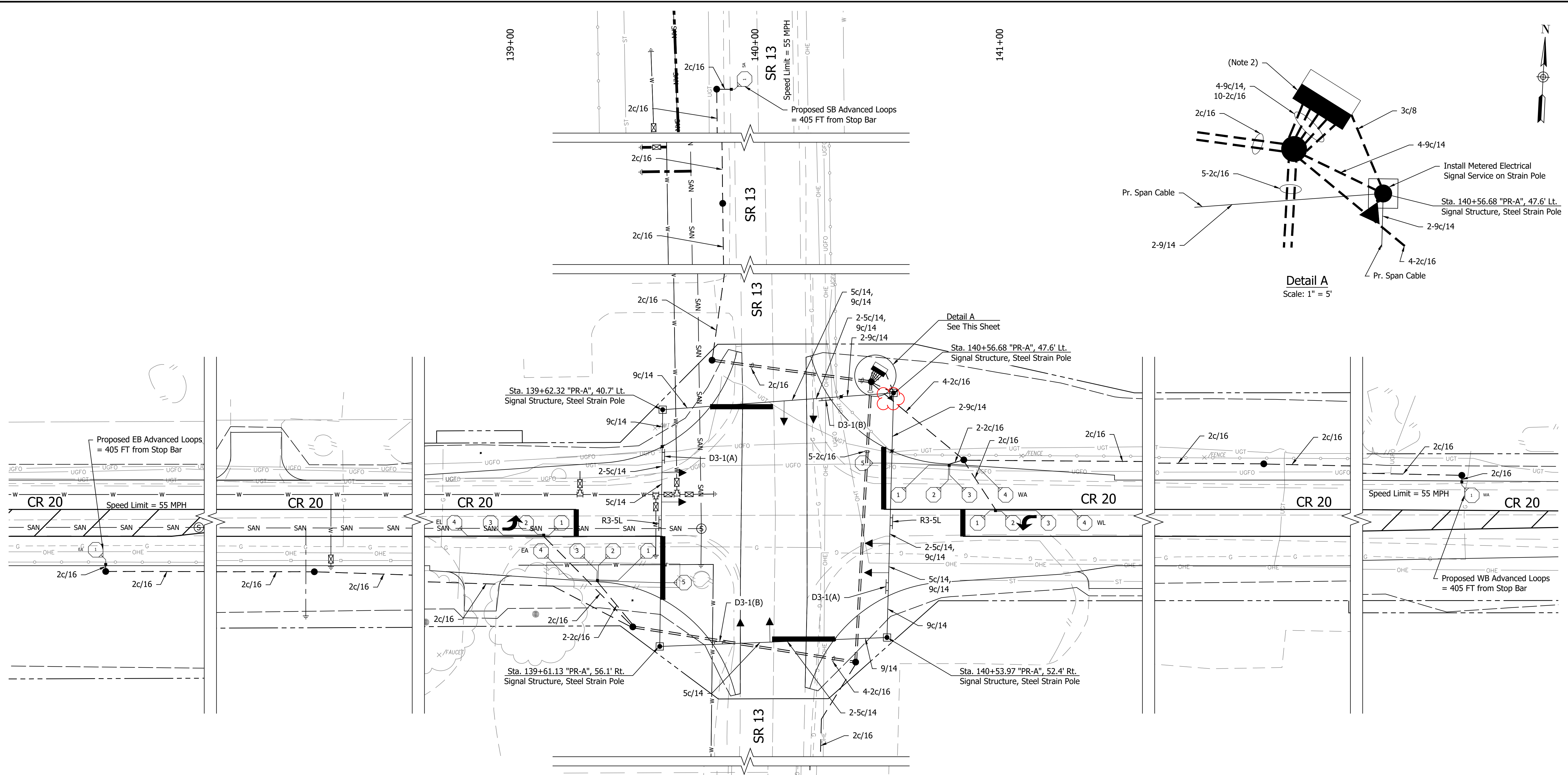
CR 20 AND CR 37 SOUTHSIDE IMPROVEMENTS - ELKHART COUNTY PROJECT NO. 22005 **BID DOCUMENTS**

31	715/TP9	VIDEO INSPECTION FOR PIPE	1167.00	LFT		
32	715/TP9	PIPE END SECTION, DIAMETER 15 IN.	5.00	EACH		
33	720/TP9	INLET, E7	5.00	EACH		
34	720/TP9	INLET, F7	5.00	EACH		
35	720/TP9	MANHOLE, C4	1.00	EACH		
36	801/TP13	ROAD CLOSURE SIGN ASSEMBLY	10.00	EACH		
37	801/TP13	DETOUR ROUTE MARKER ASSEMBLY	34.00	EACH		
38	801/TP13	CONSTRUCTION SIGN, A	15.00	EACH		
39	801/TP13	MAINTAINING TRAFFIC	1.00	LS		
40	801/TP13	BARRICADE, III-A	144.00	LFT		
41	801/TP13	BARRICADE, III-B	48.00	LFT		
42	802	SIGN POST, SQUARE TYPE 1 UNREINFORCED ANCHOR BASE	80.00	LFT		
43	802	SIGN, SHEET, ASSEMBLY RELOCATE	1.00	EACH		
44	802	SIGN, SHEET, WITH LEGEND, 0.080 IN.	65.00	SFT		
45	808	SIGN, SHEET, WITH LEGEND, 0.100 IN.	47.00	SFT		
46	805/TP14	SIGNAL POLE FOUNDATION, 36 IN. X 144 IN.	4.00	EACH		
47	805/TP14	HANDHOLE, SIGNAL, TYPE 1	13.00	EACH		
48	805/TP14	CONDUIT, STEEL, GALVANIZED, 2 IN.	60.00	LFT		
49	805/TP14	CONTROLLER AND CABINET, TYPE R W/ UPS ATTACHED TO CABINET	1.00	EACH		
50	805/TP14	CONDUIT, PVC, 2 IN. SCHEDULE 40	1890.00	LFT		
51	805/TP14	CELLULAR MODEM KIT	1.00	EACH		
52	805/TP14	LOOP DETECTOR DELAY AMPLIFIER, COUNTING, 2 CHANNEL	4.00	EACH		
53	805/TP14	CONDUIT, HDPE, 2 IN. SCHEDULE 80	680.00	LFT		
54	805/TP14	TRAFFIC SIGNAL HEAD, 3 SECTION, 12 IN.	8.00	EACH		
55	805/TP14	SPAN, CATENARY, AND TETHER	4.00	EACH		
56	805/TP14	DISCONNECT HANGER	4.00	EACH		
57	805/TP14	SIGNAL SERVICE	1.00	EACH		
58	805/TP14	SIGNAL CABLE, SERVICE, COPPER, 3C/8 GAUGE	50.00	LFT		
59	805/TP14	SIGNAL CABLE, ROADWAY LOOP, COPPER, 1C/14 GAUGE	2250.00	LFT		
60	805/TP14	SIGNAL CABLE, CONTROL, COPPER, 5C/14 GAUGE	250.00	LFT		
61	805/TP14	SIGNAL CABLE, CONTROL, COPPER, 9C/14 GAUGE	690.00	LFT		
62	805/TP14	SIGNAL CABLE, DETECTOR LEAD-IN, COPPER, 2C/16 GAUGE	3790.00	LFT		
63	805/TP14	SIGNAL DETECTOR HOUSING	8.00	EACH		
64	805/TP14	SAW CUT FOR ROADWAY LOOP DETECTOR AND SEALANT	840.00	LFT		
65	805/TP14	CONTROLLER CABINET FOUNDATION, P1	1.00	EACH		

CR 20 AND CR 37 SOUTHSIDE IMPROVEMENTS - ELKHART COUNTY PROJECT NO. 22005 **BID DOCUMENTS**

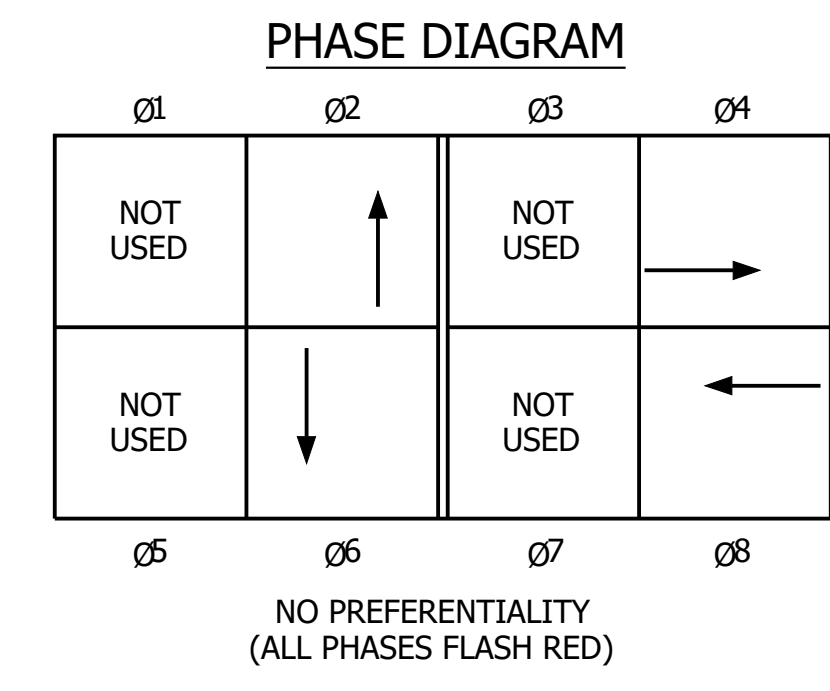
66	805/TP14	SIGNAL POLE, STEEL STRAIN, 36 FT	4.00	EACH		
67	805/TP14	LOOP DETECTOR DELAY AMPLIFIER, 2 CHANNEL	4.00	EACH		
68	808	LINE, PAINT, SOLID, WHITE, 4 IN.	1016.00	LFT		
69	808	LINE, PAINT, SOLID, YELLOW, 4 IN.	27216.00	LFT		
70	808	PAVEMENT MESSAGE MARKING, PAINT, LANE INDICATION ARROW	13.00	EACH		
71	808	TRANSVERSE MARKING, PAINT, STOP LINE, WHITE, 24 IN.	256.00	LFT		
72	808	GROOVING FOR PAVEMENT MARKINGS	0.00	LFT		
73	808	TRANSVERSE MARKING, PAINT, CROSSHATCH LINE, YELLOW, 12 IN.	1158.00	LFT		
74	805	CCTV ASSEMBLY	1.00	EACH		
					TOTAL BID:	

M:\Projects\121-3045\Drawings\Signal\121-3045_SRP_Signals.dwg - 12/15/2021 10:08 AM
 Author: NMM
 Date: 9/14/2023
 Plot Date: 12/15/2023 10:08 AM
 Plotter:



LEGEND

- Pr. 36 FT Steel Strain Pole on Foundation
- Pr. 2" Conduit (See Note 3)
- Pr. Signal Handhole, Type I
- Pr. TS-2 Controller and Type R Cabinet on P-1 Foundation, with Power Supply & Battery Back-Up System Attached to Side of Type R Cabinet, and New Cellular Internet Modem with Receiver Attached to Top of Type R Cabinet (See Note 2)
- Pr. Detector Housing
- Pr. 6' Octagonal or 6' Diameter Loop, 4 Turn Series
- ⊥ Pr. Overhead Sign (See Note 1)
- ▶ Pr. Traffic Signal Head w/ Yellow Backplate, 3 Face, 12" (Red, Amber, & Green) - All LED
- Pr. Disconnect Hanger
- ▶ Pr. CCTV Camera Assembly



GENERAL NOTES

- Refer to pavement marking detail sheets for information pertaining to intersection signing and pavement markings. These detail sheets will illustrate the legend for signs (R3-5L, D3-1A, D3-1B) to be mounted on the proposed span wire assembly.
- Traffic signal cabinet, controller, and other related equipment shall be configured for future flashing yellow arrow operations.
- Conduits installed under pavement shall be HDPE SCH 80. All other conduits shall be PVC SCH 40.

Loop No or Channel	Direction	Lane	Phase	Loops	C -	C #	Lead-in and Rack Labels
1	-	E	L	4	-	3	1-EL4-1,2,3,4 C-3
2	-	E	A	4	-	4	2-EA4-1,2,3,4 C-4
5	-	E	A	4	-	7	5-EA4-5 C-7
6	-	W	L	8	-	8	6-WL8-1,2,3,4 C-8
9	-	W	A	8	-	11	9-WA8-1,2,3,4 C-11
10	-	W	A	8	-	12	10-WA8-5 C-12
13	-	N	A	2	-		13-NA2-1
14	-	E	A	4	-		14-EA4-1
15	-	S	A	6	-		15-SA6-1
16	-	W	A	8	-		16-WA8-1

MIDDLEBURY	INDIANA	DRAWN: NMM	CHK'D: TWK	NO.	REVISION	BY	DATE		SHEET 44
MIDDLEBURY INTERSECTION IMPROVEMENTS		DESIGNED: NMM	APPR'D: TWK	△	Updated Legend and added CCTV Camera	NMM	3/21		OF 101
		DATE: 9/14/2023		△	Assembly				
SIGNAL PLAN SR 13 AND CR 20		HORIZ. SCALE: 1" = 20'		△					 Lochmueller Group, Inc.
		VERT. SCALE: N/A		△					
		PROJECT NUMBER		△					
		121-3045		△					

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION				PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH		TOP OF RIM		COVER		FLOW LINE		SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	REVETMENT RIPRAP	GEOTEXTILE	VIDEO INSPECTION	PIPE END SECTION	CONNECT TO STR. NUMBER	REMARKS						
	STATION	LEFT	CROSS	RIGHT			SIZE IN.	LFT	ELEV.	FT	FT	ELEV.	ELEV.	YR												TYPE	CYS	TONS	SYS	LFT	EA.
Line PR-A																															
2	112+04.07	X			15	2							905.00	904.75	75	Abs.	7							3							
3	112+94.09	X			15	2							904.75	904.62	75	Abs.	7							3A							
3A	113+23.00	X			15	2							904.62	904.25	75	Abs.	7							4							
4	114+07.04	X			15	2							904.25	904.11	75	Abs.	7				50				North 27' installed in Phase 2						
4A	114+15.70		X		15	2							904.11	904.00	75	Abs.	7				40	1	Outlet								
5	112+94.09		X		15	2							904.50	904.00	75	Abs.	7				105	1	Outlet								
6	138+88.00	X			15	2							904.75	904.37	75	Abs.	7				55				North 17' installed in Phase 2						
6A	138+48.80		X		15	2							904.37	904.06	75	Abs.	7				35		8								
7	139+50.00		X		15	2							904.85	904.06	75	Abs.	7				114		8								
8	138+36.00		X		15	2							904.06	903.60	75	Abs.	7				202	1	Outlet								
9	145+00.00		X		15	2							903.75	903.06	75	Abs.	7				64	1	10								
10	144+36.00		X		15	2							903.06	902.83	75	Abs.	7				91		11								
11	143+46.00		X		15	2							902.83	902.64	75	Abs.	7			2	27	64	1	Outlet							
Line PR-B																															
3B	214+28.00	X			15	2							905.35		75	Abs.	7				144		3A								

SHEET SIGN & POST SUMMARY

LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)	GROUND - MOUNTED SIGN AREA (ft²)	MOUNTED ON PANEL SIGN, AREA (ft²)	MOUNTED ON PANEL SIGN, AREA (ft²)	POST																		
							SQUARE																		
							2 1/2" X 2 1/2" - 12 GA. (TYPE 3)		2" X 2" - 12 GA. (TYPE 2)		2 1/4" X 2 1/4" - 12 GA. (TYPE 1)														
							UNREINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)														
1		2		TOTAL		1		2		TOTAL															
PR-A	111+67.00	W3-1	30 X 30	6.25																					
PR-A	112+90.00	R1-1	30 X 30	6.25																					
PR-A	114+00.00	R1-1	30 X 30	6.25																					
PR-A	115+25.00	W3-1	30 X 30	6.25																					
PR-A	140+00.00	R3-5L	30 X 36		7.50																				
PR-A	140+00.00	R3-5L	30 X 36		7.50																				
PR-A	140+00.00	D3-1(A)	24 X 54			9.00																			
PR-A	140+00.00	D3-1(A)	24 X 54			9.00																			
PR-A	140+00.00	D3-1(B)	24 X 60			10.00																			
PR-A	140+00.00	D3-1(B)	24 X 60			10.00																			
PR-A	140+00.00	Address 5900 RT	8 X 42			2.33																			
PR-A	140+00.00	Address 1250 RT	8 X 42			2.33																			
PR-A	140+00.00	Address 5900 LT	8 X 42			2.33																			
PR-A	140+00.00	Address 1250 LT	8 X 42			2.33																			
PR-B	211+00.00	W3-1	30 X 30	6.25																					
PR-B	212+02.00	R1-1	30 X 30	6.25																					
PR-B	212+99.00	R1-1	30 X 30	6.25																					
PR-B	214+25.00	W3-1	30 X 30	6.25																					

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, PAINT			TRANSVERSE MARKING, PAINT, CROSSHATCH LINE		TRANSVERSE MARKING, PAINT, STOP LINE		PAVEMENT MESSAGE MARKING, PAINT LINE INDICATION ARROW	PAVEMENT MESSAGE MARKING, PAINT, R X R	PAVEMENT MESSAGE MARKING, PAINT ONLY	GROOVING FOR PAVEMENT MARKINGS	Remarks
	Solid White 4 IN.	Solid Yellow 4 IN.	Broken White 4 IN.	White 12 IN.	Yellow 12 IN.	White 24 IN.	White 24 IN.					
	LFT	LFT	LFT	LFT	LFT	LFT	LFT					
CR 20 - Line "PR-A"												
Phase 1												
107+12.00 to 112+67.00	1,150											
114+25.00 to 139+27.00	5,075											
CR 20 - Line "PR-A"												
Phase 2												
107+12.00 to 112+67.00	120	3,544			138		33.5	2				
114+25.00 to 139+27.00	415	9,903			583		68.5	5				
140+86.00 to 149+15.00	260	2,304			159		36.5	2				
SR 13 NB and SB												
							51.0					
CR 37 - Line "PR-B"												
206+45.00 to 212+00.00	100	1,920			139		36.3	2				
213+25.00 to 225+80.00	120	3,320			139		30.2	2				
TOTAL	1,016	27,216			1,158		256	13				

DITCH SUMMARY TABLE

FROM STATION	TO STATION	LOCATION		ACTUAL LENGTH	SODDING																				
		LEFT	RIGHT		FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS	RIPRAP DITCH														
		LFT	FT		SYS	SYS	SYS	SYS	SYS	SYS	TON														
115+25.00	115+91.00		X	66																					
124+00.00	127+25.00		X	325	289																				
128+23.00	129+35.00		X	112	100																				
146+00.00	147+50.00		X	150	133																				
Total:																									

EARTHWORK SUMMARY

FILL	
Fill Volume - PR-A	994 CYS
Fill Volume - PR-B	190 CYS
Subtotal	1,183 CYS
15% Swell	177 CYS
Total Fill Volume	1,361 CYS
EXCAVATION	
Cut Volume - PR-A	4,626 CYS
Cut Volume - PR-B	1,350 CYS
Drainage Basin #1	592 CYS
Subtotal	6,569 CYS
Less Pav't Removal in PH1	1,235 CYS
Total Common Excavation	5,334 CYS

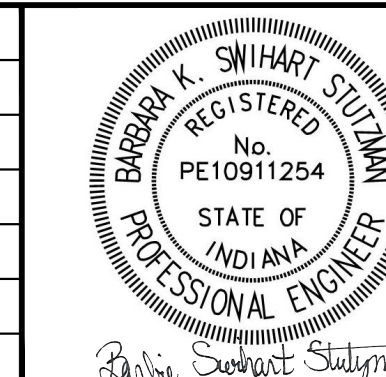
MAILBOX APPROACHES

LT./RT.	BOX STATION	DESCRIPTION	WIDTH, W (FT)	ASSEMBLY REQ'D
				SINGLE DOUBLE
Lt	109+72	Line "A"		1
Lt	111+30	Line "A"		1
Lt	112+41	Line "A"		1
Lt	114+55	Line "A"		1
Lt	118+38	Line "A"		1
Lt	121+53	Line "A"		1
Lt	124+08	Line "A"		1
Lt	131+03	Line "A"		1
Lt	132+68	Line "A"		1
Lt	134+42	Line "A"		1
Lt	136+97	Line "A"		1
Lt	137+00	Line "A"		1
Lt	139+20	Line "A"		1
Lt	143+66	Line "A"		1
Lt	145+69	Line "A"		1
Lt	147+82	Line "A"		1
Rt	214+70	Line "B"		1
Lt	221+27	Line "B"		1
Lt	223+70	Line "B"		1
TOTALS				19

MIDDLEBURY INDIANA
MIDDLEBURY INTERSECTION IMPROVEMENTS

MISCELLANEOUS TABLES

NO.	REVISION	BY	DATE
1	Removal of Groovings for Pavement Markings	JRM	3/20
2			
3			
4			
5			



Lochmueller Group, Inc.

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