

O:\Projects\Ann Arbor\IER\2914\200-12914-1800\CAD\105632\_LUC-SIGN-FY2022\Design\Roadway\Sheets\105632\_GN001.dgn Sheet 2/4/2022 12:33:03 PM KEVINKRALOVIC

**UNDERGROUND UTILITIES**

EXTREME CAUTION SHOULD BE EXERCISED IN THE AREAS WITH UNDERGROUND WATERLINES, DRAINS, CABLES, SEWERS OR OTHER UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL DAMAGE INFLICTED ON UNDERGROUND UTILITIES IN THE EXECUTION OF THIS CONTRACT. SECTIONS 105.07 AND 107.16 OF THE OHIO DEPARTMENT OF TRANSPORTATION MATERIALS AND SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE FULL RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY UTILITIES THAT MAY BE AFFECTED BY THE WORK PERFORMED FOR THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE UTILITIES SUFFICIENTLY BEFORE WORK BEGINS SO THAT THE COMPANIES CAN LOCATE AND MARK THE LOCATION OF THEIR FACILITIES BEFORE ANY EXCAVATION OR POST DRIVING BEGINS. THE CONTRACTOR SHALL ALSO LOCATE AND AVOID UNDERGROUND DRAINAGE PIPES NOT ASSOCIATED WITH A PARTICULAR UTILITY COMPANY.

IF ANY CONFLICTS OCCUR THE ENGINEER SHALL DETERMINE WHETHER THE POSITION OF THE SIGN POST CAN BE ADJUSTED TO AVOID THE UTILITY OR IF RELOCATION OF THE UTILITY WILL BE REQUIRED.

THE ABOVE SHALL ALSO INCLUDE ANY AND ALL PLAN SHEETS FOLLOWING THE GENERAL NOTES OF THIS PLAN.

**SIGN REPLACEMENTS**

WITH RESPECT TO THE REPLACEMENT OF EXISTING SIGNS THE CONTRACTOR SHALL IN NO CASE REMOVE A SIGN UNLESS THE APPLICABLE REPLACEMENT CAN BE ERECTED WITHIN THE SAME WORKING DAY.

**LAYOUT OF WORK**

PRIOR TO REMOVING OR ERECTING SIGNS OR SIGN SUPPORTS, THE CONTRACTOR SHALL FIELD LAYOUT AND IDENTIFY, BY TYPE OF WORK, SIGNS AND SIGN SUPPORTS TO BE ERECTED OR REMOVED. THIS LAYOUT MAY BE ACCOMPLISHED BY STAKING OR BY PLACING CLEARLY DISCERNABLE PAINTED MARKINGS WITH WHITE TRAFFIC PAINT ON THE EDGE OF PAVEMENT OR BY OTHER METHODS APPROVED BY THE ENGINEER. IN NO CASE SHALL THE CONTRACTOR PLACE ANY PERMANENT MARKINGS ON ANY EXISTING SIGN OR SIGN SUPPORT.

**RESTORATION OF DISTURBED AREAS**

THE CONTRACTOR SHALL RESTORE ALL SEEDED AND SODDED AREAS, PAVED BERMS, AND OTHER DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE THIS WORK WAS STARTED. ALL RESTORATION WORK SHALL BE DONE IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEM AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL RESTORATION WORK, INCLUDING MATERIALS AND LABOR SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE VARIOUS TRAFFIC CONTROL ITEMS IN THIS PLAN.

**SIGN POSITION**

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, GROUND MOUNTED SIGNS SHALL HAVE THE CORRECT LATERAL AND VERTICAL CLEARANCE AND LONGITUDINAL POSITION IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS AND OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) WHERE PHYSICAL CONDITIONS PERMIT. THE PROPOSED LOCATIONS OF ALL NEW SIGNS AND SUPPORTS SHALL BE FIELD LOCATED BY THE CONTRACTOR AND THE PROJECT ENGINEER OR DESIGNEE AFTER ALL UTILITIES HAVE BEEN MARKED TO ENSURE THE PROPOSED LOCATIONS ARE CORRECT AND NOT IN CONFLICT WITH UTILITIES. IF THERE IS A CONFLICT WITH ANY OF THE PROPOSED LOCATIONS, THE CONTRACTOR SHALL GET THE APPROVAL OF THE PROJECT ENGINEER FIRST BEFORE INSTALLING THE NEW SIGN(S) AND SUPPORT(S). THE PROJECT ENGINEER SHALL THEN CONTACT THE DISTRICT PLANNING DEPARTMENT TO ASSIST IN PROPERLY LOCATING THE PROPOSED SIGN LOCATIONS.

**SIGN COLOR LEGEND**

- BLK- BLACK
- BLU- BLUE
- BRN- BROWN
- FYG- FLUORESCENT YELLOW GREEN
- FY- FLUORESCENT YELLOW
- G- GREEN
- O- ORANGE
- R- RED
- W- WHITE

THE ABOVE LEGEND SHALL INCLUDE ANY AND ALL SUBSUMMARIES FOLLOWING THE GENERAL NOTES.

**ITEM 630, GROUND MOUNTED NO. 3 POST, AS PER PLAN**

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED NO. 3 POST WITH THE EMBEDMENT DEPTH OF A MINIMUM OF 48". ADDITIONAL EMBEDMENT DEPTH IS INCLUDED IN THE PLAN QUANTITY PRICE FOR:

ITEM 630, GROUND MOUNTED NO. 3 POST, AS PER PLAN.

**ITEM 630, SIGNING, MISC., 4"x6" WOOD POST**

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED 4"x6" SOLID WOOD POST. FIGURE 298-26 OF THE TRAFFIC ENGINEERING MANUAL (P. 2-219) SHALL BE USED AS A GUIDE FOR INSTALLATION OF THE 4"x6" POST.

GRADE 2 SOUTHERN YELLOW PINE SHALL BE USED, AND SHALL BE PRESSURE TREATED WITH CCA PRESERVATIVE.

U-CHANNEL DRIVE POSTS OF THE SAME HEIGHTS AS THE SIGN, WILL BE ATTACHED TO THE WOOD POST WITH 5/8" SQUARE HEAD, GALVANIZED BOLTS, NUTS AND WASHERS. THE SIGNS WILL THEN BE INSTALLED USING STANDARD SIGN CLIPS.

**ITEM 630, SIGNING, MISC., 6"x8" WOOD POST**

THIS ITEM SHALL CONSIST OF INSTALLING A GROUND MOUNTED 6"x8" SOLID WOOD POST. FIGURE 298-26 OF THE TRAFFIC ENGINEERING MANUAL (P. 2-219) SHALL BE USED AS A GUIDE FOR INSTALLATION OF THE 6"x8" POST.

GRADE 2 SOUTHERN YELLOW PINE SHALL BE USED, AND SHALL BE PRESSURE TREATED WITH CCA PRESERVATIVE.

U-CHANNEL DRIVE POSTS OF THE SAME HEIGHTS AS THE SIGN, WILL BE ATTACHED TO THE WOOD POST WITH 5/8" SQUARE HEAD, GALVANIZED BOLTS, NUTS AND WASHERS. THE SIGNS WILL THEN BE INSTALLED USING STANDARD SIGN CLIPS.

**ITEM 630, SIGN, FLAT SHEET (FOR ASSEMBLIES MOUNTED ON UTILITY OR STEEL POLES)**

WHEN A SIGN IS IDENTIFIED TO BE INSTALLED ON A UTILITY OR STEEL POLE IN THE PLAN SHEETS, THE CONTRACTOR SHALL INSTALL THE SIGN ASSEMBLY PER SCD TC-41.40, IN ADDITION TO THE FOLLOWING SPECIFICATIONS.

FOR INSTALLATIONS ON WOOD POLES, LAG SCREWS SHALL BE USED TO ATTACH THE ASSEMBLIES TO THE POLES.

FOR INSTALLATIONS ON STEEL POLES, THE FRAMES SHALL BE BOLTED TOGETHER TO A VERTICAL U-CHANNEL POST. THE U-CHANNEL POSTS SHALL BE MOUNTED WITH THE OPEN SIDE BUTTED UP TO THE POLE. STEEL BANDING AROUND THE POLE AND VERTICAL U-CHANNEL POST SHALL BE USED TO SECURE THE FRAME TO THE POLE. THE STEEL BANDING SHALL BE SPACED IN ACCORDANCE WITH NOTE 2 OF SCD TC-41.40.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR THESE INSTALLATIONS ON STEEL POLES AND HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED 1,500 EA

**ITEM 630, REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, AS PER PLAN**

ALL POSTS DRIVEN THROUGH A MATERIAL WHICH IS NEITHER ASPHALT NOR CONCRETE SHALL BE REMOVED IN THEIR ENTIRETY. THAT IS, NO POST SECTION SHALL BE LEFT IN THE GROUND.

POST SUPPORTS THAT ARE EMBEDDED IN ASPHALT OR CONCRETE SHOULD BE REMOVED IN THEIR ENTIRETY IF POSSIBLE. IF THIS IS NOT POSSIBLE, CUT THE SUPPORT A MINIMUM OF 4" BELOW THE TOP OF EITHER SURFACE. FILL THE VOID WITH SIMILAR MATERIAL. RESTORE ALL AREAS DISTURBED BY THE WORK TO A CONDITION COMPARABLE TO THE ADJACENT UNDISTURBED GROUND CONDITIONS.

**ITEM 630, SIGN POST REFLECTOR, AS PER PLAN**

IN ADDITION TO THE POST SUPPORT, THE CONTRACTOR SHALL PROVIDE SIGN POST REFLECTORS IN ACCORDANCE WITH STD. DWG. TC 41.30 AS PART OF THIS PAY ITEM. THE SIGN POST SHALL BE REFLECTORIZED WITHIN 1" BELOW THE SIGN TO WITHIN 1' OF THE GROUND ELEVATION BELOW THE SIGN. THE REFLECTIVE SHEETING, TYPE AND MANUFACTURER, SHALL MATCH THAT OF THE PROPOSED SIGN TO INSURE THE REFLECTIVITY IS CONSISTENT. ONLY 36" LENGTH STRIPS SHALL BE USED.

**ITEM 630 - CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN**

FABRICATE AND INSTALL A CONCRETE BARRIER MOUNTED SIGN SUPPORT IN ACCORDANCE WITH THE DETAILS IN TRAFFIC PLAN INSERT SHEET PIS 202020 DATED 7-18-14.

**ITEM 630 - GROUND MOUNTED STRUCTURAL BEAM FOUNDATION**

FOUNDATIONS FOR WOOD POSTS SHALL BE CONCRETE AND SIZED AS SPECIFIED FOR W6X9 SIZE SUPPORTS IN SCD TC-41.10.

**ITEM 630 - SIGN SUPPORT ASSEMBLY, POLE MOUNTED, APP**

THIS ITEM WILL BE USED FOR EACH SIGN ATTACHED TO A WOOD UTILITY POLE. THE SIGN(S) SHALL BE ATTACHED IN ACCORDANCE WITH THE NOTE ITEM 630, SIGN, FLAT SHEET (FOR ASSEMBLIES MOUNTED ON UTILITY OR STEEL POLES) SHOWN ON SHEET 2 OF THE PROJECT PLANS.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, APP AND SHALL INCLUDE THE COST OF LABOR, MATERIAL AND EQUIPMENT NECESSARY TO MOUNT EACH SIGN IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR THESE INSTALLATIONS AND HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, APP 1,200 EA

**ITEM 630 - SIGN HANGER ASSEMBLY**

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO ACCOUNT FOR INSTALLATIONS REQUIRING SIGN HANGER ASSEMBLIES AND HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 630 SIGN HANGER ASSEMBLY, MAST ARM 150 EA

ITEM 630 SIGN HANGER ASSEMBLY, SPAN WIRE 40 EA

CALCULATED  
VHP  
CHECKED  
DTC

**GENERAL NOTES**

**LUC-SIGN-FY2022**

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SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
2	5	6	87					01/STR/OT							
			188					188	202	38000	188	FT	ROADWAY GUARDRAIL REMOVED		
													TRAFFIC CONTROL		
40	364	522						886	630	08601	886	EACH	SIGN POST REFLECTOR, AS PER PLAN	2	
150								40	630	79000	40	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	2	
1,500								150	630	79100	150	EACH	SIGN HANGER ASSEMBLY, MAST ARM	2	
1,200								1,500	630	79500	1,500	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	2	
								1,200	630	79501	1,200	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	2	
	10,996	8,195						19,191	630	80100	19,191	SF	SIGN, FLAT SHEET		
	1							1	630	81021	1	EACH	CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN	2	
	20	17						37	630	84500	37	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	2	
	1,509	1,085						2,594	630	84900	2,594	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
	15	25						40	630	85100	40	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
	17	12						29	630	86002	29	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, WOOD POST		
	1,098	705						1,803	630	86003	1,803	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, AS PER PLAN	2	
	108	3	1					112	630	87400	112	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
	1,117	1,001	2					2,120	630	87500	2,120	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL		
	39	37						76	630	87520	76	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION		
			1					1	630	89702	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL		
		77						77	630	97900	77	FT	SIGNING, MISC.:4" X 6" WOOD POST	2	
	419	252						671	630	97900	671	FT	SIGNING, MISC.:6" X 8" WOOD POST	2	
	14,460	9,824						24,284	630	03101	24,284	FT	GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN	2	
			1					1	631	94250	1	EACH	REMOVAL OF LUMINAIRE		
			1					1	631	94406	1	EACH	REMOVAL OF SIGNS WIRED		
			1					1	631	94470	1	EACH	REMOVAL OF SIGN SERVICE		
													INCIDENTALS		
								LS	614	11000	LS		MAINTAINING TRAFFIC		
								LS	624	10000	LS		MOBILIZATION		

**GENERAL SUMMARY**

**LUC - SIGN - FY 2022**

CALCULATED  
KSK  
CHECKED  
DTC