

UTILITIES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

TELECOMMUNICATIONS:

KALIDA TELEPHONE COMPANY
121 EAST MAIN STREET
KALIDA, OHIO 45853
ATTN: DAVE HUNT
(419) 532-3218

ELECTRIC:

AEP DISTRIBUTION/PUBLIC WORKS
38831 STATE ROUTE 7
REEDSVILLE, OHIO 45775
ATTN: CLARKE SAUNDERS
(740) 985-3054

GAS:

KNG NATUAL GAS
1700 WESTFIELD DRIVE
FINDLAY, OHIO 45840
ATTN: JEFF ABBOTT
(419) 348-9928

WATER AND UTILITIES:

KALIDA WATER AND UTILITIES
P.O. BOX 495
KALIDA, OHIO 45853
ATTN:
(419) 532-2432

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEY PARAMETERS:

SEE SHEET 2/142 OF THE PLANS FOR PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011); EPOCH2002
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH
COMBINED SCALE FACTOR: 1.0000896486
ORIGIN OF SCALING: MAGNAIL FOUND AT 487185.782700,1498735.464200

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS:

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONSTRUCTION NOISE:

ACTIVITIES AND LAND USE ADJACENT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8PM AND 7AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

CLEARING AND GRUBBING:

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
36"	2	0	2

CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

VEGETATED FILTER STRIP:

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 600 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

ITEM 670 SLOPE EROSION PROTECTION (01/NFA)	7,984 SY
ITEM 670 SLOPE EROSION PROTECTION (02/STR)	3,378 SY

REVIEW OF DRAINAGE FACILITIES:

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE VILLAGE, REPRESENTATIVES OF THE VILLAGE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE VILLAGE.

REVIEW OF DRAINAGE FACILITIES (CONT.):

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE VILLAGE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

SEEDING AND MULCHING:

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	1264 CU. YD.
659, SEEDING AND MULCHING	11378 SQ. YD.
659, REPAIR SEEDING AND MULCHING	569 SQ. YD.
659, INTER-SEEDING	569 SQ. YD.
659, COMMERCIAL FERTILIZER	1.59 TON
659, LIME	2.35 ACRE
659, WATER	63 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 630 - SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY PER ODOT STD. DWG TC-87.10. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), PROWAG, AND FHWA INTERIM APPROVAL FOR RRFBS (IA-21).

GENERAL REQUIREMENTS:

POLE, BASE, CABINET, ALL HARDWARE, ETC. ASSOCIATED WITH THE INSTALLATION OF THIS ITEM SHALL BE GALVANIZED WITH BLACK FINISH, PER ODOT SUPPLEMENTAL SPEC 916.

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

FUNCTIONAL REQUIREMENTS:

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA/PROWAG COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHROIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

MATERIALS:

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, PUSHBUTTONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

1. RRFB INDICATIONS
 - A. EACH RRFB INDICATION LENDS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE x 2" HIGH.
 - B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
 - C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
 - D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
 - E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
 - F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
 - G. A SMALL LED CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

ITEM 630 - SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONT.)

- H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.
2. SIGNS
 - A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
 - B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGENCE "PUSH BUTTON FOR WARNING LIGHTS | WAIT FOR GAP IN TRAFFIC". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
 - C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
 - D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.
3. CONTROL CIRCUIT
 - A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
 - B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
 - C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.
 - D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.
5. WIRELESS RADIO
 - A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.
 - B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
 - C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.
6. PUSHBUTTON
 - A. PUSHBUTTONS SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
 - B. PUSHBUTTONS SHALL BE PAINTED BLACK AND ADA/PROWAG COMPLIANT. PUSHBUTTONS SHALL INCIDENTAL TO THE COMPLETE RRFB ASSEMBLY.
7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH A TRANSFORMER BASE PER ODOT SCD HL-10.13 AND TC-87.10. A 15 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. THE POLE AND BASE MANUFACTURER SHALL BE LISTED IN ODOT'S QUALIFIED PRODUCTS LIST.

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY SHALL BE FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE.

PAYMENT FOR ITEM 630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

REF. NO.	SHEET NO.	STATION	SIDE	CODE	SIZE (IN)	GROUND MOUNTED SUPPORT, NO. 3 POST (FT)
S21	48	145+97	LT	W11-2	30 x 30	
				W16-7P	30 x 18	
				R1-6A	12 x 36	
S22	48	146+42	LT	W11-2	30 x 30	
				W16-7P	30 x 18	
				R1-6A	12 x 36	
S30	60	204+72	RT	S1-1	30 x 30	
				W16-7P	30 x 18	
				R1-6A	12 x 36	
S31	60	204+64	RT	S1-1	30 x 30	
				W16-7P	30 x 18	
				R1-6A	12 x 36	
S34	24	-	-	W11-2	30 x 30	15.7
				W16-9P	30 x 18	

PAYMENT FOR SIGNS & SUPPORT POST TO BE INCLUDED IN ITEM 630 - SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY.

DESIGN AGENCY

Bockrath & Associates

Engineering and Surveying, LLC

115 S. Fair Avenue
Suite A - Ottawa - Ohio
Phone: 419.523.5789

DESIGNER

KMB

REVIEWER

GAB 2-2-26

PROJECT ID

121886

SHEET TOTAL

P.13 | 144

ADDITIVE ALTERNATES

ADDITIVE ALTERNATES FOR THIS PROJECT ARE PROVIDED AS DESCRIBED BELOW. THE DEPARTMENT HAS A BID BUDGET NOT TO EXCEED \$1.8 MILLION FOR THE PUT-KALIDA PEDESTRIAN LOOP (PID 121886) PROJECT AND WILL AWARD THE MAXIMUM AMOUNT OF WORK WITHIN THE BID BUDGET. THE SEGMENTS OF THE PROPOSAL CONSIST OF:

1. BASE BID (BID ITEMS 1 - 69)
2. ADDITIVE ALTERNATE #1 (BID ITEMS 70-77, PRIORITY 1)

THE CONTRACTOR COMPLETION DATE MAY BE EXTENDED BASED ON THE INCLUSION OF ADDITIVE ALTERNATES AS DESCRIBED BELOW:

ADDITIVE ALTERNATE NUMBER	PROJECT COMPLETION DATE
BASE BID ITEMS	10/30/2026*
ADDITIVE #1	10/30/2026

*DUE TO LONG LEAD TIME FOR THE PREFABRICATED BRIDGE, THE PEDESTRIAN BRIDGE ONLY MAY BE EXTENDED TO 6/1/2027

ITEM 625, POWER SERVICE, AS PER PLAN (ADDITIVE ALTERNATE #1)

THE EXISTING 200 AMP SERVICE PANEL IS FED WITH 4/0 ALUMINUM CONDUCTORS FEEDING IT FROM THE AEP PRIMARY. USE SPACES 6 & 8 FOR THE NEW 40 AMP 2 POLE QL BREAKER TO FEED THE NEW LIGHTS FOR ADDITIVE ALTERNATE #1. THERE IS AN EXISTING PHOTO EYE ALREADY INSTALLED FOR THE OTHER LIGHTS THAT ARE FED OFF THE PANEL.

THE NEW CONTACTOR FOR THE NEW LIGHTS CAN BE MOUNTED IN THE SAME BOX AS THE EXISTING CONTACTORS TO THE LEFT OF THE EXISTING CONTACTOR. THE EXISTING 1 1/4" PVC CONDUIT IS RAN OUT OF THE GROUND JUST BELOW THIS BOX.

THERE IS AN EXISTING SPARE 1 1/4" PVC CONDUIT. IT RUNS APPROXIMATELY 210' EAST THAT WE CAN CONNECT TO FOR THE CIRCUIT.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE HL AND TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH. PROVIDE AN EQUIPEMNT GROUNDING CONDUCTOR IN METALLIC CONDUITS. IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
2. CONDUITS THE 725.04
 - A. CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OF COMPRESSION TYPE BUSHING MAY BE USED.
 - B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF TEH CONDUIT DEBURRED AT ALL TERMINATION POINTS.
 - C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
 - D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
3. WIRE FOR GROUNDING AND BONDING
 - A. USE INSULLATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OF INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
 - i. USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.
 - ii. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S). FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE. LABELS INSTALLED AT ALL ACCESS POINTS.
 - B. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.

GROUNDING AND BONDING (CONTINUED):

4. GROUND ROD
 - A. A 3/4 INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
 - B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
5. PAYMENT. ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED. IN A 3-WIRE HIGHWAY LIGHTING SYSTEM, THE NEUTRAL CONDUCTOR OF THE DISTRIUTION CABLE WILL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR AND MAY AS SUCH BE PART OF THE CABLE BID ITEM.

ITEM 625 - CONNECTION, FUSED FULL APART, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S SPECIFICATIONS 625.18 AND 725.15, THE FOLLOWING REQUIREMENTS SHALL APPLY:

THE CONTRACTOR SHALL SUPPLY A 10 AMP FUSE FOR THE LUMINAIRES AND A 6 AMP FUSE FOR THE OUTLETS.

PAYMENT FOR ITEM 625 CONNECTION, FUSED PULL APART, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 625 - LIGHT POLE, AESTHETIC, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, LIGHT POLES SHALL BE:

STERNBERG 2A-D650-5P-VC0B-4L30TS-MDL05-A/50PM/3912T4-.125-BCC-GFILPIUC/BK, OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, LIGHT POLE, AESTHETIC, AS PER PLAN, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INDIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM SPECIAL - MAILBOX REMOVED AND RESET:

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE:

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

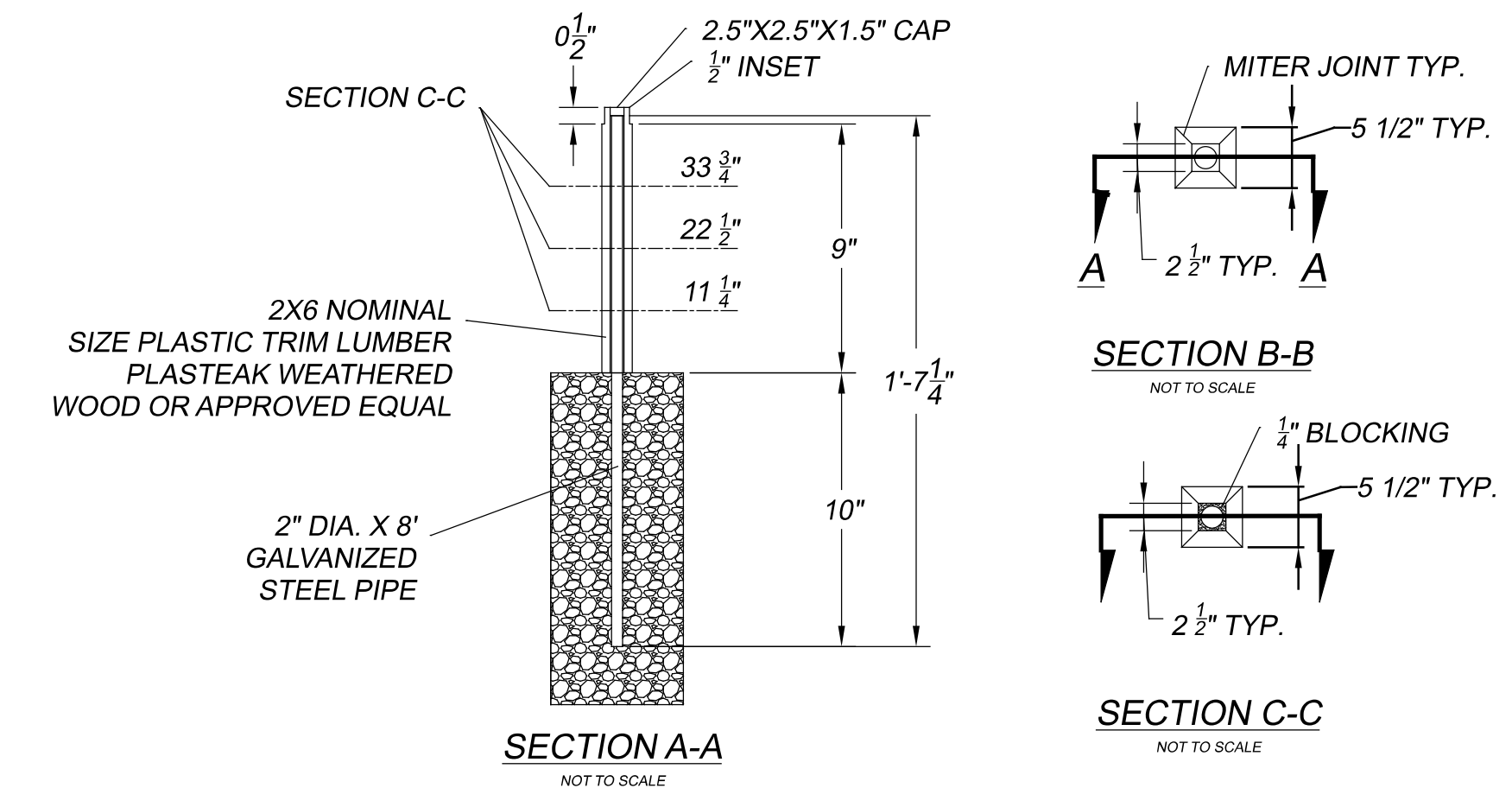
THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS, TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.



TRAIL DIRECTIONAL SIGN DETAIL

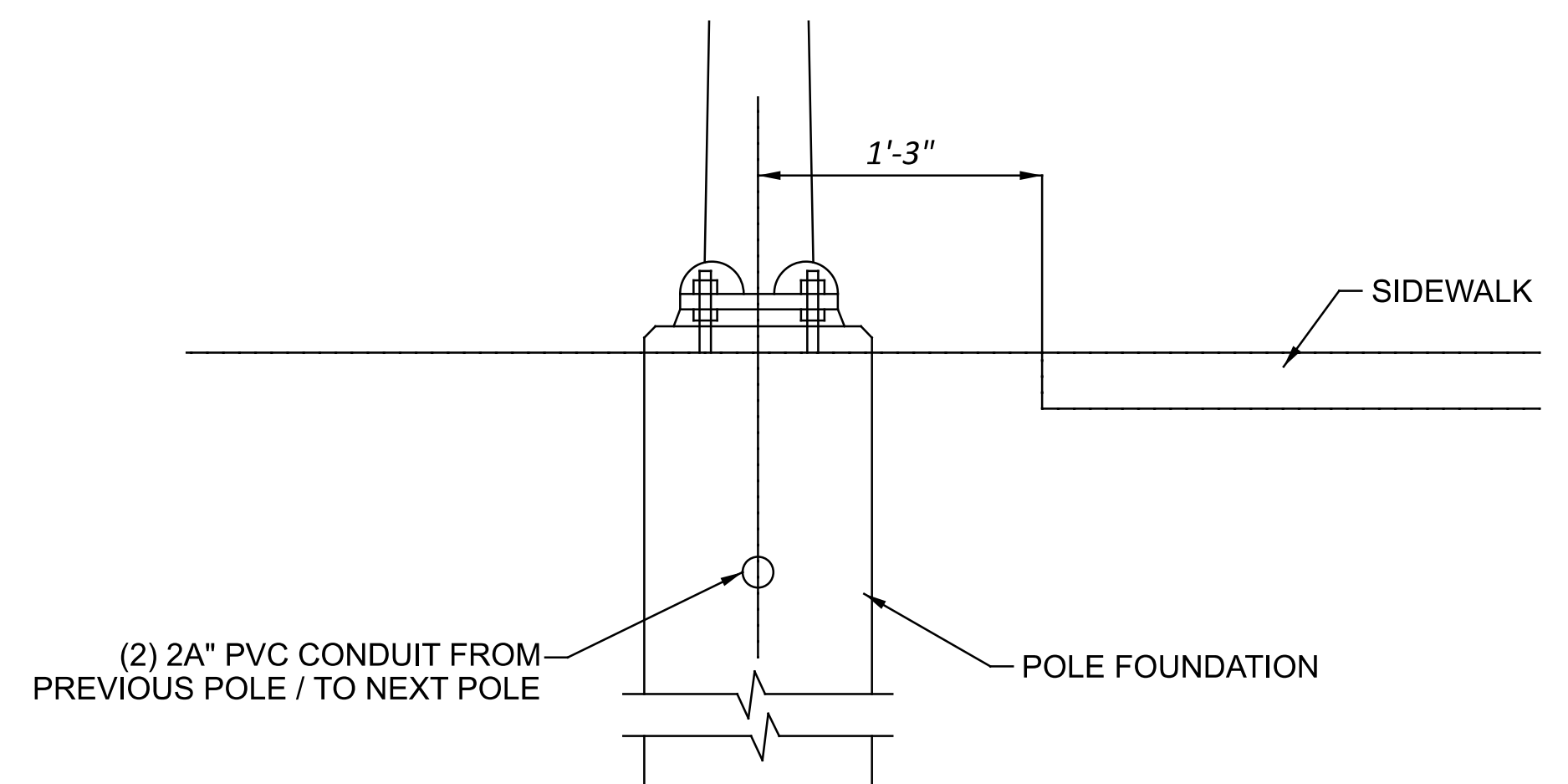
NORTHLAND DRIVE RECONSTRUCTION PROJECT COORDINATION:

DURING THE SUMMER AND EARLY FALL OF 2026, THE EASTERN MOST APPROXIMATE 1,200 FEET OF NORTHLAND DRIVE WILL BE RECONSTRUCTED WHICH WILL INCLUDE WIDENING AND ADDING CURBING.

THE PEDESTRIAN LOOP CONTRACTOR WILL BE REQUIRED TO COORDINATE THE SIDEWALK AND CURB RAMP INSTALLATION IN THIS AREA WITH THE NORTHLAND DRIVE PROJECT. THIS INCLUDES INSTALLING THE NEW SIDEWALKS AND CURB RAMPS ALONG THE NEW ROAD RECONSTRUCTION PROJECT AFTER THE NEW CURBING IS INSTALLED.

ENVIRONMENTAL COMMITMENTS:

1. THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED INDIANA BAT AND NORTHERN LONG-EARED BAT, AND THE STATE ENDANGERED LITTLE BROWN AND TRICOLORED BATS. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.
2. ACCESS TO FROGGY PARK/FOUR SEASONS PARK SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES VIA FLAGGING OPERATIONS AND/OR APPROVED DETOUR.
3. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING SECTION 4(F) PROPERTIES AND THE PUBLIC.
4. APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF FROGGY PARK AND FOUR SEASONS PART OF CONSTRUCTION ACTIVIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.
5. THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT, THE VILLAGE OF KALIDA, AND MRS. BRITNEY MORRISON (brittney_trentman@icloud.com) PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
6. TREES PROPOSED FOR REMOVAL WILL BE MARKED BY THE DESIGN/SURVEY TEAM PRIOR TO CONSTRUCTION. TREE CUTTING WILL BE LIMITED TO WHICH IS NECESSARY TO INSTALL THE PATH AND WILL NOT EXPAND BEYOND THOSE THAT ARE MARKED FOR REMOVAL.



TYPICAL INSTALLATION DETAIL

(N. T. S)

DESIGN AGENCY
Bockrath & Associates
Engineering and Surveying, LLC
115 S. Fair Avenue,
Suite A - Ottawa - Ohio
Phone: 419.523.5789

DESIGNER
KMB
REVIEWER
GAB 2-2-26
PROJECT ID
121886
SHEET TOTAL
P.14 | 144

PROJECT DESCRIPTION

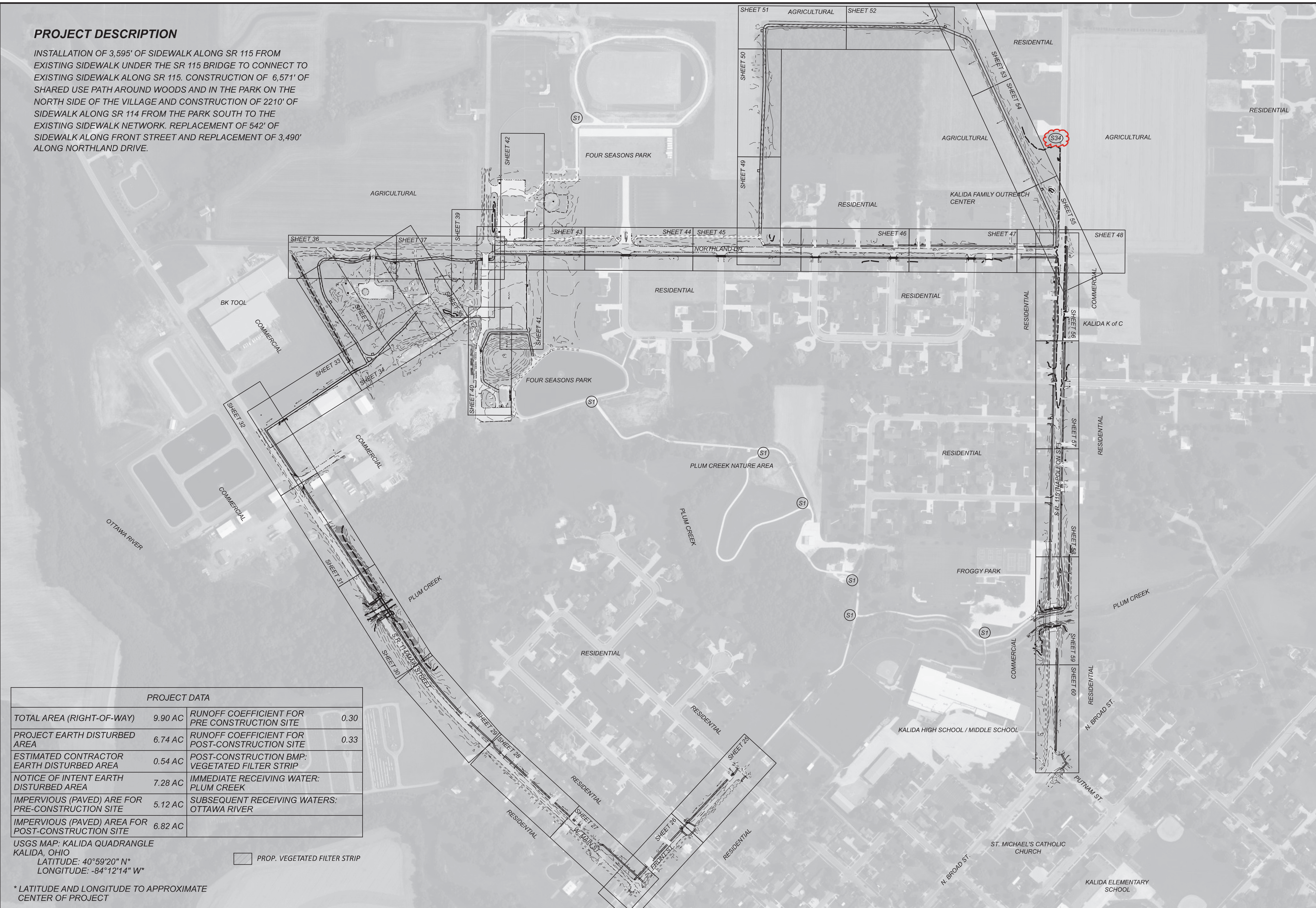
INSTALLATION OF 3,595' OF SIDEWALK ALONG SR 115 FROM EXISTING SIDEWALK UNDER THE SR 115 BRIDGE TO CONNECT TO EXISTING SIDEWALK ALONG SR 115. CONSTRUCTION OF 6,571' OF SHARED USE PATH AROUND WOODS AND IN THE PARK ON THE NORTH SIDE OF THE VILLAGE AND CONSTRUCTION OF 2210' OF SIDEWALK ALONG SR 114 FROM THE PARK SOUTH TO THE EXISTING SIDEWALK NETWORK. REPLACEMENT OF 542' OF SIDEWALK ALONG FRONT STREET AND REPLACEMENT OF 3,490' ALONG NORTHLAND DRIVE.



SITE PLAN

PUT-KALIDA PEDESTRIAN LOOP

MODEL: SitePlan PAPER SIZE: 17x11 (in.) DATE: 4/21/2026 TIME: 1:57:21 PM USER: kbuss
Z:\Active Projects\24-219_Kalida TAP Grant\121886400-Engineering\Roadway\Sheets\121886_CB100.dgn



PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	9.90 AC	RUNOFF COEFFICIENT FOR PRE CONSTRUCTION SITE	0.30
PROJECT EARTH DISTURBED AREA	6.74 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.33
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.54 AC	POST-CONSTRUCTION BMP: VEGETATED FILTER STRIP	
NOTICE OF INTENT EARTH DISTURBED AREA	7.28 AC	IMMEDIATE RECEIVING WATER: PLUM CREEK	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	5.12 AC	SUBSEQUENT RECEIVING WATERS: OTTAWA RIVER	
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	6.82 AC		

USGS MAP: KALIDA QUADRANGLE
KALIDA, OHIO
LATITUDE: 40°59'20" N*
LONGITUDE: -84°12'14" W*
* LATITUDE AND LONGITUDE TO APPROXIMATE CENTER OF PROJECT

DESIGN AGENCY
Bockrath & Associates
Engineering and Surveying, LLC
115 S. Fair Avenue,
Suite A - Ottawa - Ohio
Phone: 419.523.5789

DESIGNER
KMB

REVIEWER
GAB 12-30-25

PROJECT ID
121886

SHEET TOTAL
P.24 144