CITY OF SPRINGDALE
HAMILTON COUNTY, OHIO

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

242429

CITY OF SPRINGDALE OFFICIALS

MAYOR
LAWRENCE HAWKINS III

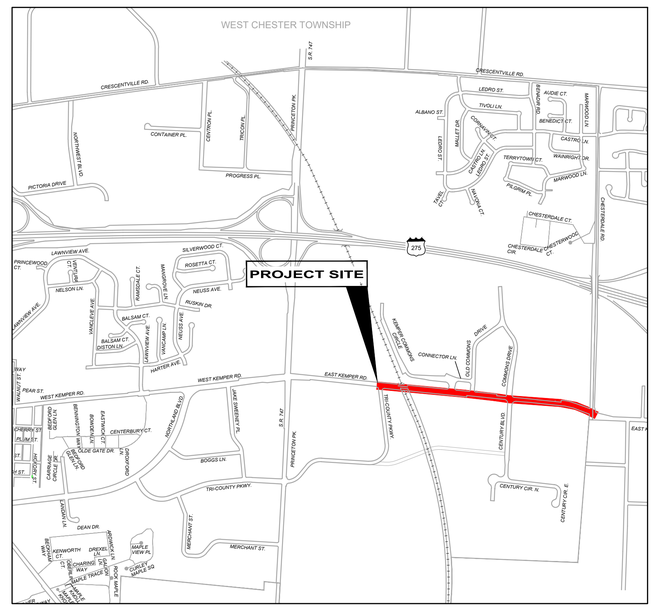
CITY ADMINISTRATOR
BRIAN UHL

ASSISTANT CITY ADMINISTRATOR
STEPHANIE A. MORGAN

CITY COUNCIL MEMBERS
JEFFREY ANDERSON
DAN JACOBS
DAVID E. GLEAVES
MICHELLE L. MCFARLAND
LAVONNE L. WEBSTER
TOM HALL
AMY THOMPSON

APPROVED FOR CONSTRUCTION BY:

BRIAN UHL, CITY ADMINISTRATOR *DATE*



VICINITY MAP

SHEET INDEX

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	TYPICAL SECTIONS
3	GENERAL NOTES
4	GENERAL NOTES 2
5	DETAILS 1
6	DETAILS 2
7	DETAILS 3
8	DETAILS 4
9	DETAILS 5
10	DETAILS 6
11	PLAN 1
12	PLAN 2
13	PLAN 3
14	PLAN 4
15	CROSS SECTIONS 1
16	CROSS SECTIONS 2
17	CROSS SECTIONS 3
18	CROSS SECTIONS 4
19	CROSS SECTIONS 5
20	CROSS SECTIONS 6
21	CROSS SECTIONS 7
22	DRIVE PROFILES & DETAILS 1
23	DRIVE PROFILES & DETAILS 2
24	DRIVE PROFILES & DETAILS 3
25	INTERESECTION DETAILS 1
26	INTERESECTION DETAILS 2
27	INTERESECTION DETAILS 3
28	INTERSECTION DETAILS 4
29	WALL DETAILS
30	STORM PROFILES
31	TRAFFIC CONTROL PLAN 1
32	TRAFFIC CONTROL PLAN 2
33	TRAFFIC CONTROL PLAN 3
34	TRAFFIC CONTROL PLAN 4
35-42	TRAFFIC SIGNAL PLANS
43-47	WATER WORKS PLANS

O.D.O.T. SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION , INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CITY OF SPRINGDALE ENGINEERING DEPARTMENT REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON HAMILTON COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY VERDANTAS, INC.

STATE OF OHIO
ANDREA L. HARTH
74335
REGISTERED
PROFESSIONAL ENGINEER

TRAFFIC SIGNALS (SHEETS 35-42)

Digitally signed by Andrea Harth
Date: 2026.02.05 14:33:14 -05'00'

ANDREA HARTH *DATE*

STATE OF OHIO
SHAWN RIGGS
PE84714
REGISTERED
PROFESSIONAL ENGINEER

ROADWAY (SHEETS 1-34)

Digitally signed by Shawn Riggs
Date: 2026.02.05 13:50:01-05'00'

SHAWN RIGGS *DATE*

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org
Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

verdantas

NO	REVISION	DATE

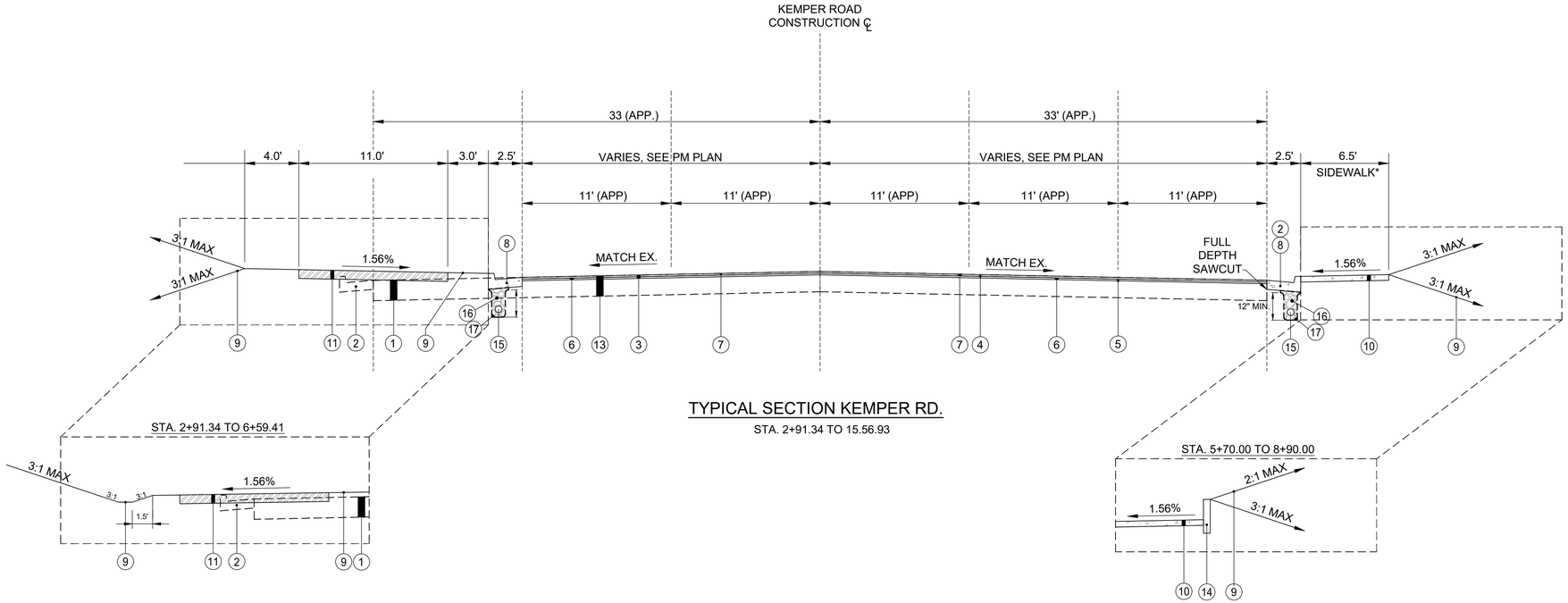
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: AS NOTED
DESIGNED BY:
DRAWN BY: PMAD
CHECKED BY: SRG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TITLE SHEET

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TTL
SHEET 1 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - TITLE SHEET & DETAILS.DWG - TTL - 2/5/2026 1:41:26 PM - PATRICK MADL



TYPICAL SECTION KEMPER RD.

STA. 2+91.34 TO 15.56.93

NOTES:

1. SEE INTERSECTION DETAILS:
   -STA 1+21.66 TO STA 2+91.34
   -STA 6+59.41 TO STA 7+51.42
   -STA 15+9717 TO STA 16+98.06

2. SAWCUT TO A CLEAN EDGE WHERE NOTED ON THE PLANS. A 6" WIDTH WITH CONCRETE INFILL IS ASSUMED TO BE NECESSARY AND INCIDENTAL.

3. PROFILE AND ALIGNMENT PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF THREE (3) INCHES AFTER PLANING THE EXISTING ASPHALT PAVEMENT AS SHOWN ON THE TYPICAL SECTIONS.

4. THE FOLLOWING QUANTITIES ARE ESTIMATED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, TOPSOIL	278 CY
ITEM 659, SEEDING AND MULCHING	2,505 SY
ITEM 659, COMMERCIAL FERTILIZER	0.34 TON
ITEM 659, WATER	1.5 MGAL

ITEM 659, WATER ASSUMES UP TO 6 WATERING TO A MINIMUM DEPTH OF 1" AS REQUESTED BY THE CITY.

USE TURF TYPE SEED (10% PERENNIAL RYE, 80 FESCUE - TALL TURF AND/OR TITAN TYPE, AND 10 KENTUCKY BLUEGRASS) + FERTILIZER (12-12-12).

APPLY SEEDING AND MULCHING TO ALL AREAS OF EXPOSED SOIL WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. THE COST FOR ALL THE ABOVE NOTED ITEMS SHALL BE INCIDENTAL TO THE CONTRACT.

*2.5' GRASS STRIP AT B/C THEN 5' WALK, STA 12+51 TO STA 14+90.87

LEGEND

1. EX ASPHALT REMOVED
2. EX CURB & GUTTER REMOVED
3. ITEM 254 - PAVEMENT PLANNING, ASPHALT CONCRETE (3" MIN.) PROFILE MILL
4. ITEM 407 - NON-TRACKING TACK COAT @ 0.075 GAL/ SY
5. ITEM 407 - NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL/ SY
6. ITEM 441 - 1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
7. ITEM 441 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22, 100% CRUSHED LIMESTONE
8. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2
9. ITEM 653 - TOPSOIL FURNISHED AND PLACED (4") & ITEM 659 - SEEDING & MULCHING CLASS I (SEE NOTE 4)
10. ITEM 608 - 5" CONCRETE WALK (9" WALK AT APRONS AND CURB RAMPS)
11. SHARED USE PATH (SEE DETAIL)
12. ITEM SPC - RETAINING WALL
13. EXISTING ASPHALT
14. ITEM 609 CURB, TYPE 7, AS PER PLAN
15. ITEM 605 UNDERDRAIN, MISC.: 6" SHALLOW PIPE UNDERDRAIN
16. CLEAN #57'S GRANULAR MATERIAL BACKFILL (INCIDENTAL TO ITEM 605 - UNDERDRAIN, MISC.: 6" SHALLOW PIPE UNDERDRAIN
17. ITEM SPL - NON-WOVEN GEOTEXTILE FABRIC - MIRIFI 140N OR EQUIVALENT. PLACED ON 3 SIDES OF UNDERDRAIN TRENCH. (INCIDENTAL TO ITEM 605 UNDERDRAIN, MISC.: 6" SHALLOW PIPE UNDERDRAIN)

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	XX"=XX'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TYPICAL SECTIONS

PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
TYP	
SHEET	OF
2	47

GENERAL NOTES

IN GENERAL, UNLESS SPECIFICALLY SET FORTH HEREIN, THE WORK AND MATERIALS SHALL CONFORM TO THE APPLICABLE DIVISIONS AND PARAGRAPHS OF THE MOST CURRENT EDITION OF THE:

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS

MATERIALS AND SPECIFICATIONS UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP.

ALL ITEMS OF EQUIPMENT AND/OR MATERIAL PROPOSED BY THE CONTRACTOR FOR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRES ENGINEERING REVISIONS, THE TOTAL EXPENSE OF SAID REVISIONS SHALL BE PAID BY THE CONTRACTOR.

ANY ITEMS OF LABOR AND MATERIALS REQUIRED BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT, EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

PERMITS THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL CHARGES AND FEES AS MAY BE NECESSARY AND REQUIRED BY THE CITY OR STATE.

RESPONSIBILITY IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FEATURE, (I.E. EXISTING INLETS, CONDUITS, ETC.) WHICH IS NOT MARKED FOR REPLACEMENT OR REMOVAL. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE OPERATIONS OF THE CONTRACTOR, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE. THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS. IN SOME INSTANCES, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE UNDER AND AROUND THE EXISTING UTILITIES. EXTREME CARE SHOULD BE USED NOT TO DAMAGE THE UTILITY DURING THIS OPERATION.

WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL THE CONTRACTOR SHALL TAKE EXTREME CARE AND UTILIZE BEST MANAGEMENT PRACTICES TO CONTROL SEDIMENT AND EROSION DURING THE PROJECT AND TO PREVENT UNNECESSARY EROSION, WATER POLLUTION AND SILTATION AT ALL POINTS OF THE PROJECT. TEMPORARY SEEDING AND MULCHING; INLET PROTECTION; STRAW BALES; SLOPE DRAINS, ETC., SHALL BE USED AS NECESSARY OR AS DIRECTED BY THE CITY, THE COST OF WHICH SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE.

EROSION AND DUST CONTROL THE CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT UNNECESSARY EROSION AT ALL POINTS OF THE PROJECT. DUST SHALL BE KEPT TO A MINIMUM. COST OF EQUIPMENT, WATER, LABOR AND MATERIAL, ETC. REQUIRED TO PERFORM DUST CONTROL SHALL BE INCIDENTAL TO THE OVERALL BID PRICE.

TESTING THE CONTRACTOR SHALL INCLUDE THE COST OF ALL REQUIRED TESTS IN THE UNIT PRICE BID FOR THE PERTINENT ITEM AND NO SEPARATE COMPENSATION IS TO BE MADE FOR SAID TESTING. THIS INCLUDES BUT IS NOT LIMITED TO SUBGRADE TESTING, PROOF ROLLING, CONCRETE TESTING, ASPHALT TESTING, AND COMPACTING TESTING.

CITY OWNED TRAFFIC SIGNS, POSTS, SIGNALS, AND POLES TRAFFIC SIGNS, POSTS, SIGNAL EQUIPMENT AND POLES THAT ARE NOT INTENDED TO BE REUSED SHALL BE CAREFULLY REMOVED, CLEANED AND DELIVERED TO THE CITY MAINTENANCE GARAGE FOR INSPECTION AND STORAGE. IF ANY OF THOSE ITEMS GET DAMAGED BY THE CONTRACTOR THEY SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

LOCAL LAWS, ORDINANCES AND REGULATIONS IN ACCORDANCE WITH SECTION 107.01 OF THE GENERAL PROVISIONS, THE CONTRACTOR SHALL STAY FULLY INFORMED OF ALL LOCAL LAWS, ORDINANCES, REGULATIONS, ORDERS, AND DECREES THAT AFFECT THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE AND COMPLY WITH ALL SUCH LAWS, ORDINANCES, REGULATIONS, ORDERS, AND DECREES AT NO ADDITIONAL COST TO THE PROJECT.

CONTROL OF WORK THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND COOPERATE WITH OTHER CONTRACTORS, E.G. PUBLIC UTILITY COMPANIES, SO THAT INTERFERENCE WITH SUCH OTHER WORK WILL BE REDUCED TO A MINIMUM.

PROTECTION OF MONUMENTATION CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ANY SURVEY MONUMENTS ENCOUNTERED IN FIELD. COST FOR PROTECTION, RELOCATION AND COORDINATION WITH COUNTY TO BE MADE INCIDENTAL TO OVERALL CONTRACT PRICE.

SURVEY EXISTING SURVEY INFORMATION IS SHOWN IN AN APPROXIMATE WAY ONLY AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR(S) SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE SURVEY AND ACTUAL FIELD CONDITIONS. THE AVAILABILITY AND RELEASE OF ELECTRONIC INFORMATION IS AT THE SOLE DISCRETION OF THE OWNERS REPRESENTATIVE.

STATIONING AND LOCATIONS STATIONING AND LOCATIONS INDICATED ON THESE PLANS ARE APPROXIMATE. ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD “AS DIRECTED BY THE ENGINEER” AT NO ADDITIONAL COST.

NOTICE - CAUTION - CLASSIFICATION WITHOUT REGARD TO THE MATERIALS ENCOUNTERED, ALL ROADWAY AND DRAINAGE EXCAVATION SHALL BE UNCLASSIFIED AND SHALL BE DESIGNATED AS "ROADWAY EXCAVATION". IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR ANY OTHER MATERIAL ON THE PLANS OR CROSS-SECTIONS, WHETHER IN NUMBERS, WORDS LETTERS OR LINES, IS SOLELY FOR THE CITY'S INFORMATION AND IS NOT TO BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION OR THE QUANTITY OF EITHER ROCK, EARTH OR ANY OTHER MATERIAL INVOLVED. THE BIDDER MUST DRAW HIS OWN CONCLUSION AS TO THE CONDITIONS TO BE ENCOUNTERED. THE DEPARTMENT DOES NOT GIVE ANY GUARANTEE AS TO THE ACCURACY OF THE DATA AND NO CLAIM WILL BE CONSIDERED FOR ADDITIONAL COMPENSATION IF THE MATERIALS ENCOUNTERED ARE NOT IN ACCORDANCE WITH THE CLASSIFICATION SHOWN.

GEOTECHNICAL ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DETERMINE SUBSURFACE CONDITIONS. EXCAVATION IS UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED SHOULD ROCK BE ENCOUNTERED.

GENERAL NOTES (CONT)

TOPSOIL EXISTING TOPSOIL FROM ON-SITE TO BE RESPREAD UNDER EARTHWORK OPERATIONS. SUPPLEMENT EXISTING TOPSOIL WITH NEW TOPSOIL IN ACCORDANCE ITH ODOT ITEM 653 TO ACHIEVE SPECIFIED DEPTH IN ALL AREAS TO BE SEEDED.

REVIEW OF DRAINAGE FACILITIES BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY , THE CONTRACTOR WITH THE CITY ENGINEER OR INSPECTOR SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE CONTRACTOR.

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 CITY.

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 CITY.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.

CONNECTIONS EXISTING ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASIN, AS DIRECTED BY THE ENGINEER.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE FIELD INSPECTOR DURING CONSTRUCTION.

COORDINATION WITH OTHER CONTRACTORS OTHER CONTRACTORS AND/OR UTILITY COMPANIES MAY BE WORKING IN THIS AREA CONCURRENT WITH THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH ALL OTHER CONTRACTORS IN THE AREA.

MANHOLES, CATCH BASINS AND INLETS ALL CASTINGS FOR MANHOLES, CATCH BASINS AND INLETS SHALL CONFORM TO THOSE SPECIFIED IN THE STANDARD CONSTRUCTION DRAWINGS. ALL CASTINGS WHICH MIGHT BE SUBJECT TO VEHICLE TRAFFIC SHALL BE OF THE HEAVY DUTY GRADE. GRATED INLET TOPS SHALL BE PLACED AS SPECIFIED ON THE PLANS.

TOP OF CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER. ALL MANHOLES WITHIN WALK AREA SHALL HAVE A FLAT FLUSH COVER. ALL CASTINGS USED SHALL BE SUBJECT TO THE FINAL APPROVAL OF THE ENGINEER.

IT SHALL BE THE RESPOSIBILITY OF THE CONTRACTOR TO DELINEATE ANY CASTINGS THAT MAY PROTRUDE ABOVE THE MILLED ASPHALT SURFACE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT MATERIAL IN THE VICINITY OF THESE CASTINGS TO PROVIDE AN ADEQUATE RAMP AROUND THE CASTINGS. IN NO CASE SHALL THE CASTING REMAIN EXPOSED WITHOUT PROPER PROTECTION. ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM BID ITEM PRICE FRO ITEM 614 - MAINTAINING TRAFFIC

CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON ALL FINISHED SURFACES. CONTRACTOR SHALL CONSULT WITH ENGINEER FOR AREAS SUBJECT TO PONDING.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

SEED, MULCH & FERTILIZER ALL SEEDING, MULCHING AND FERTILIZING SHALL BE DONE TO DAMAGED AREAS AT THE EXPENSE OF THE CONTRACTOR. THE ENGINEER SHALL DETERMINE ALL AREAS REQUIRING SEEDING, MULCHING AND FERTILIZER PERTINENT TO THIS CONTRACT. REFER TO NOTE 4 ON SHEET 2.

GRADES CONTRACTOR SHALL VERIFY EXISTING GRADES AND PROPOSED GRADES IN THE FIELD AND NOTIFY ENGINEER IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE EXISTING GRADES SHOWN AND ACTUAL FIELD CONDITIONS.

SAW CUTTING EXISTING PAVEMENT ALL EXISTING PAVEMENT SHALL BE SAW CUT BEFORE REMOVAL TO OBTAIN A UNIFORM EDGE. THE COST OF SAW CUTTING AND PAVEMENT REMOVAL SHALL BE INCIDENTAL TO THE PERTINENT REMOVAL ITEM.

ASPHALT RESURFACING PROFILE AND ALIGNMENT PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF THREE (3) INCHES AFTER PLANING THE EXISTING ASPHALT PAVEMENT AS SHOWN ON THE TYPICAL SECTIONS.

PAVEMENT RESTORATION FOR PIPE/CONDUIT AND DRAINAGE STRUCTURE INSTALLATIONS PAVEMENT RESTORATION FOR PIPE/CONDUIT AND DRAINAGE STRUCTURE INSTALLATIONS OR ANY OTHER ITEMS UNLESS SPECIFICALLY ITEMIZED SHALL BE INCLUDED WITH THE PERTINENT ITEM. NO SEPARATE PAYMENT WILL BE MADE.

PAVEMENT REPAIR OPERATIONS AN ESTIMATED QUANTITY FOR PAVEMENT REPAIRS HAS BEEN PROVIDED BASED ON FIELD OBSERVATIONS. FINAL REPAIRS SHALL BE DETERMINED BY FIELD REVIEW AFTER PAVEMENT HAS BEEN PLANED CURB-TO-CURB (EDGE-TO-EDGE) WITHIN THE STREET SEGMENT LIMITS.

APPROVED METHODS FOR REMOVAL OF THE REMAINING (AFTER PLANING) ASPHALT CONCRETE OVERLAY AND, WHERE REQUIRED, CONCRETE SHALL SATISFACTORILY ESTABLISH A NEAT VERTICAL FACE ALONG THE ENTIRE PERIMTER OF THE RECTANGLE SHAPED REMOVAL AREAS IN ORDER TO SUBSEQUENTLY PERMIT THE PROPER PLACEMENT AND COMPACTION OF THE FULL DEPTH PAVEMENT REPLACEMENT MATERIALS.

GENERAL NOTES (CONT)

BEFORE PLACING THE PAVEMENT REPLACEMENT MATERIALS, CLEAN ALL VERTICAL FACES OF THE EXISTING PAVEMENT AND COAT THEM WITH ASPHALT MATERIAL ACCORDING TO 401.14. ALSO, APPLY ITEM 407 - TACK COAT TO THE SURFACE OF THE REPAIRED/EXISTING CONCRETE OR EXISTING ASPHALT BASE COURSE.

MATERIALS FOR THE PAVEMENT REPLACEMENT SHALL BE AS DETAILED ON THE PAVEMENT REPAIR DETAILS. PLACE AND COMPACT THE PAVEMENT REPLACEMENT IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

PART WIDTH CONSTRUCTION BECAUSE OF NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

CONTINGENCY QUANTITIES THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE FIELD INSPECTOR'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 201 CLEARING AND GRUBBING, AS PER PLAN THIS WORK SHALL CONSIST OF CLEARING, GRUBBING, REMOVAL OF ALL TREES AND STUMPS AND ALL VEGETATION AND DEBRIS WITHIN THE WORK LIMITS. THE WORK SHALL ALSO INCLUDE ANY REMOVAL OF POSTS, ROCKS, LANDSCAPING AND ANY OTHER OBJECTS WITHIN THE CONSTRUCTION LIMITS WHICH THE REMOVAL AND DISPOSAL OF IS DEEMED NECESSARY TO ALLOW FOR THE PROPOSED IMPROVEMENTS TO TAKE PLACE.

BUTT JOINT BUTT JOINTS SHALL BE PROVIDED 10' BEYOND ALL NOTED LIMITS OF PAVEMENT. THE WIDTH SHALL BE AS INDICATED ON THE PLANS. THE BUTT JOINT SHALL BE CONSTRUCTED AS PER ODOT CONSTRUCTION DRAWING BP-3.1, WITH COST INCIDENTAL TO ITEM 441.

FIELD ADJUSTMENT OF PROPOSED ELEVATIONS UPON COMPLETION OF THE PROPOSED TOP OF CURB AND CENTERLINE ELEVATIONS LAYOUT STAKING, THE ENGINEER WILL REVIEW AND ADJUST THE PROPOSED ELEVATIONS AT THE ENGINEERS DISCRETION.

ITEM 452, NON-REINFORCED CONCRETE PAVEMENT, MISC.: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL & REPLACEMENT &

ITEM 448, ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, AS PER PLAN

IN ADDITION TO THE SPECIFICATIONS PROVIDED IN THE BID BOOK, AND DETAILS PROVIDED, THE FOLLOW SHALL APPLY:

THE ABOVE-NOTED BID ITEMS ARE ALL-INCLUSIVE COSTS FOR THE COMPLETE REMOVAL AND CONSTRUCTION OF THE DRIVEWAY SECTIONS AS NOTED IN THE PLANS. THE INTENT IS FOR THE HORIZONTAL LOCATION TO MATCH THE EXISTING DRIVEWAY, UNLESS OTHERWISE NOTED. THE FINAL LOCATIONS, ETC., MAY BE REVIEWED BY THE ENGINEER WHO MAY ADJUST THE LOCATION AT THEIR DISCRETION. CONCRETE SHALL BE CLASS QC MS. COMPLETE UNDER PART WIDTH CONSTRUCTION UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE CITY AND PROPERTY OWNER. IN ADDITION:

1. ANY YARD AREA DISTURBED BY THE CONSTRUCTION OF THE DRIVEWAY APRON SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH (INCIDENTAL TO DRIVEWAY APRON REPLACEMENT).
2. ALL EXCAVATION REQUIRED FOR THE PLACEMENT OF THE PROPOSED DRIVEWAY SHALL BE INCIDENTAL TO CONCRETE DRIVEWAY REPLACEMENT BID ITEM.
3. ALL CURB OR CURB AND GUTTER SHALL BE INCIDENTAL

ITEM 608 - CONCRETE WALK IN ADDITION TO THE REQUIREMENTS OF ODOT ITEM 608, THE CONTRACTOR SHALL MATCH ANY SPECIAL PAVING FINISHES OR MATERIALS OF THE ADJACENT EXISTING WALK.

ITEM 611 - DRAINAGE STRUCTURE, MISC.: CONVERT EX. DB OUTLET STRUCTURE TO MH AND ADD PR. DETENTION BASIN OUTLET STRUCTURE (CB2-4) IN ADDITION TO THE REQUIREMENTS OF ODOT 611, THIS ITEM SHALL INCLUDE ALL MATERIAL, LABOR, AND INCIDENTALS TO REMOVE THE EXISTING OUTLET STRUCTURE AND REPLACE WITH A NEW VERSION IN LOCATION AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO OPEN THE EXISTING STRUCTURE, SURVEY THE OUTLET STRUCTURE CONTROL ELEVATIONS, AND PROVIDE INFORMATION TO THE CITY. THE PROPOSED OUTLET STRUCTURE SHALL HAVE THE SAME OUTLET STRUCTURE CONTROL ELEVATIONS. CONTRACTOR TO PROVIDE A DETAIL FOR PROP ODOT CB 2-4 STRUCTURE.

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH ODOT CMS SECTION 623, AND SHALL ALSO INCLUDE THE FOLLOWING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY SURVEYING, CALCULATIONS, AND/OR LAYOUT NOT FURNISHED IN THE BID DOCUMENTS TO COMPLY WITH THE ENGINEER'S DIRECTION. CONTRACTOR SHALL PROVIDE CUT SHEETS, TEMPORARY BENCHMARKS, AND LAYOUT (INCLUDING STATIONING AND HUBS) AS DIRECTED BY THE ENGINEER. ALL STATIONING AND REFERENCE MARKS SHALL BE MAINTAINED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE COMPETENT PERFONNEL AND SUITABLE EQUIPMENT FOR THE LAYOUT WORK REQUIRED ALL SHALL PRIOVIDE THAT IT BE DONE UNDER THE SUPERVISION OF A REGISTERED SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF OHIO.

ALL MONUMENTS EXISTNG AND PROPOSED MUST BE REFERENCED PRIOR TO CONSTRUCTION. A MINIMUM OF 3-REF POINTS PER MONUMENT MUST BE USED TO AND MUST LOCATED OUTSIDE OF THE CONSTRUCTION ZONE (WORK AREA). CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO PRESERVE EXISTING MONUMENTS. ALL MONUMENTS DISTRURBED AND/OR DESYROYED SHALL BE RESET.

BENCHMARKS PROVIDED ON THE PLAN AND PROFILE SHEETS ARE TO BE USED BY THE CONTRACTOR FOR INITIAL PROJECT CONTROL SET UP ONLY. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SET ADDITIONAL BENCHMARKS THAT WILL NOT BE DISTURBED DURING CONSTRUCTION ACTIVITIES AND THAT WILL SUBSEQUENTLY BE USED FOR SURVEYING AND STAKING ACTIVITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE SETTING OF ADDITIONAL BENCHMARKS.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE OF ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN.

DOWNTIME DUE TO FIELD CONFLICT DURING THE CONSTRUCTION ACTIVITIES OF THIS PROJECT, THERE MAY BE TIMES WHEN THE CONSTRUCTION IN SOME AREAS MAY NEED TO BE SUSPENDED PENDING RESPONSE ON, OR RESOLUTION TO AN ISSUE FROM THE OWNER AND/OR ENGINEER. THE CONTRACTOR, IN THIS CASE SHALL MOVE THE CREWS AND EQUIPMENT TO WORK IN A DIFFERENT AREA OR ON A DIFFERENT TASK. COST OF MOBILIZING AND DEMOBILIZING OF THE CONTRACTORS WORK CREWS AND EQUIPMENT INCLUDING "DOWNTIME" SHALL BE INCIDENTAL TO THE OVERALL BID PRICE FOR THIS PROJECT.

RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM HAMILTON COUNTY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE CITY OF SPRINGDALE. THE CITY OF SPRINGDALE DOES NOT GUARANTEE THE RIGHT OF WAY ON THIS ROAD, NOR WILL IT BE RESPONSIBLE FOR AND CLAIMS OR DAMAGES BROUGHT BY THE PROPERTY OWNER.

GENERAL NOTES (CONT)

ITEM SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OF REMOVAL AND RESETING MAILBOX . IN THE EVENT THE EXISTING MAILBOX SUPPORT CANNOT BE REUESED, THE CONTRACTOR SHALL FURNISH MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE AND ATTACH THE EXISTING MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISED 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 SHAL 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 EXISTING OR 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 PROPERTY 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 REMOVED AND RESET, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH.

SUBGRADE COMPACTION REQUIREMENTS

A. COMPACT THE SUBGRADE IN ACCORDANCE WITH 204.03.

B. FOR AREAS WHERE THE SUBGRADE APPEARS TO BE STABLE, PROOF ROLL AFTER THE TOP 12" OF THE SUBGRADE MEETS COMPACTION REQUIREMENTS AND AFTER THE SUBGRADE HAS BEEN BROUGHT TO THE APPROXIMATE SHAPE REQUIRED BY PLANS.

-- FOR AREAS THAT HAVE MOISTURE CONTENT THAT IS EITHER TOO HIGH OR TOO LOW, THE CONTRACTOR SHALL DISK UP THE SUBGRADE MATERIAL FROM THE DESIGNATED AREA AND EITHER ALLOW TO DRY OR ADD MOISTURE IN ORDER TO OBTAIN THE PROPER MOISTURE CONTENT. THE MATERIAL SHALL THEN BE RECOMPACTED. THE COST FOR THIS SHALL BE INCIDENTAL TO ITEM 204 - SUBGRADE COMPACTION.

C. THE ENGINEER AND / OR THE DESIGNATED GETECHNICAL ENGINEER SHALL REVIEW THE PROOF ROLLING OPERATION AND DETERMINE IF THE SUBGRADE IS ACCEPTABLE OR IF THE ADDITIONAL SUBGRADE TREATMENT IS REQUIRED.

D. IF ADDITIONAL TREATMENT IS REQUIRED, THE SPECIFIC METHOD AND EXTENT SHALL BE DETERMINED BY THE ENGINEER AND GEOTECHNICAL ENGINEER; CONTINGENCY QUANTITIES FOR BOTH CHEMICALLY STABILIZED SUBGRADES AND MECHANICALLY STABILIZED SUBGRADE ARE INCLUDED IN THE QUANTITIES AND WILL ONLY BE UTILIZED AS DIRECTED BY THE ENGINEER AND THE DESIGNATED GEOTECHNICAL ENGINEER.

PROTECTION OF THE SUBGRADE UPON REMOVAL OF THE EXISTING PAVEMENT, THE ENGINEER / TESTING FIRM SHALL EVALUATE THE EXISTING SUBGRADE AND DETERMINE ANY AREAS OF THE SUBGRADE REQUIRING SUBGRADE STABILIZATION METHODS AS INDICATED IN THE NOTES.

ANY OTHER AREAS OF THE SUBGRADE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN REGARDING ITS ABILITY TO BE PROPERLY COMPACTED, INCLUDING BUT NOT LIMITED TO MOISTURE CONTENT.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MEASURES TO EITHER PRESERVE OR RESTORE THE SUBGRADE TO A "COMPACTABLE" STATE, REGARDING, BUT NOT LIMITED TO MOISTURE CONTENT.

PROJECT SIGN THE CONTRACTOR SHALL ERECT A SIGN ON THE PROJECT SITE, ACKNOWLEDGING THE SORTA’S ROLE IN THE PROJECT, PROVIDED THAT THE LOCATION THEREOF SHALL BE AGREED UPON MUTUALLY BY THE CITY AND THE SORTA. THE SIGN SHALL BE AT LEAST SIX (6) FEET BY FOUR (4) FEET AND BE AT LEAST FOUR (4) FEET ABOVE THE GROUND. THE COST OF THE PROJECT SIGN SHALL BE INCIDENTAL TO THE CONTRACT.

NOTICE OF CONSTRUCTION SIGNS THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED ROAD WORK. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHALL BE ERECTED AS CLOSE AS PRACTICAL TO THE WORK ZONE. SIGNS TO MADE OF THE TYPE G REFLECTIVE SHEETING FOR BACKGROUND AND LEGEND.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 614 MAINTAINING TRAFFIC, AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGNS INCLUDING SUPPORTS.

EASEMENT AVAILABILITY WORK SHALL NOT BEGIN ON THIS PROJECT UNTIL ALL REQUIRED TEMPORARY AND PERMANENT EASEMENTS ASSOCIATED WITH THE FOLLOWING PARCELS HAVE BEEN FULLY EXECUTED AND RECORDED BY THE OWNER:

- PARCEL 059900200025 - 1171 E KEMPER RD [OWNER NAME, IF NEEDED]
- PARCEL 059900100059 - 1190 E KEMPER RD
- PARCEL 059900200013 - 1229 E KEMPER RD
- PARCEL 059900200024 - 1251 E KEMPER RD
- PARCEL 059900100354 - 1280 E KEMPER RD
- PARCEL 059900200032 - 1275 E KEMPER RD
- PARCEL 059900200105 - 1309 E KEMPER RD

THESE PARCELS CORRESPOND TO THE EASEMENT AREAS SHOWN ON THE PLANS. THIS RESTRICTION APPLIES TO ALL ACTIVITIES, INCLUDING BUT NOT LIMITED TO CLEARING, GRUBBING, EXCAVATION, UTILITY WORK, STAGING, EQUIPMENT MOBILIZATION, AND MATERIAL DELIVERY WITHIN OR DEPENDENT UPON THE EASEMENT AREAS.

THE ENGINEER WILL ISSUE A NOTICE TO PROCEED WITH CONSTRUCTION ONLY AFTER CONFIRMING THAT ALL EASEMENT RIGHTS FOR THE ABOVE-LISTED PARCELS HAVE BEEN SECURED. NO ADDITIONAL COMPENSATION OR CONTRACT TIME WILL BE GRANTED FOR DELAYS RELATED TO EASEMENT ACQUISITION.

SYMBOL LEGEND

Symbol	Description
GAS — GAS	*EXISTING GAS LINE*
GS — GS — GS	*EXISTING GAS SERVICE*
ELEC-UG // ELEC-OH	*EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)*
CATV-UG // CATV-OH	*EXISTING CABLE (UNDERGROUND / OVERHEAD)*
TEL-UG // TEL-OH	*EXISTING TELEPHONE (UNDERGROUND / OVERHEAD)*
WAT — WAT	*EXISTING WATER MAIN*
WS — WS — WS — WS	*EXISTING WATER SERVICE*
STM — STM	*EXISTING STORM SEWER*
RD — RD — RD — RD	*EXISTING ROOF DRAIN*
SAN — SAN	*EXISTING SANITARY SEWER*
FM — FM	*EXISTING SANITARY FORCE MAIN*
FOC — FOC	*EXISTING FIBER OPTICS*
X — X — X — X	*EXISTING FENCE*
650	*EXISTING CONTOURS (MAJOR)*
648	*EXISTING CONTOURS (MINOR)*
EX. R/W	*EXISTING RIGHT OF WAY*
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING GUARDRAIL
	EXISTING TREE LINE
GAS — GAS	PROPOSED GAS LINE
GS — GS — GS — GS — GS	PROPOSED GAS SERVICE
ELEC-UG // ELEC-OH	EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
CATV-UG // CATV-OH	PROPOSED CABLE (UNDERGROUND / OVERHEAD)
TEL-UG // TEL-OH	PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD)
	PROPOSED WATER MAIN
WS — WS — WS — WS — WS	PROPOSED WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED UNDERDRAIN
UD/DSC — UD/DSC	PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO
	PROPOSED SANITARY SEWER
SAN-FM	PROPOSED SANITARY FORCE MAIN
FOC — FOC	PROPOSED FIBER OPTICS
X — X — X — X	PROPOSED FENCE
650	PROPOSED CONTOURS (MAJOR)
648	PROPOSED CONTOURS (MINOR)
	PROPOSED RIGHT OF WAY
	PROPOSED PROPERTY LINE
	PROPOSED EASEMENT
	PROPOSED GUARDRAIL
	PROPOSED TREE LINE / CLEARING LIMITS
	PROPOSED DISTURBED LIMITS

Symbol	Existing	Symbol	Proposed
	EXISTING FLAGPOLE		PROPOSED FLAGPOLE
MB	*EXISTING MAILBOX*	MB	PROPOSED MAILBOX
	EXISTING SIGN		PROPOSED SIGN
CP	*EXISTING CABLE PEDESTAL*	CP	PROPOSED CABLE PEDESTAL
EP	*EXISTING ELECTRIC PEDESTAL*	EP	PROPOSED ELECTRIC PEDESTAL
PB	*EXISTING PULL BOX*	PB	PROPOSED PULL BOX
	EXISTING GROUND LIGHT		PROPOSED GROUND LIGHT
	EXISTING LIGHT POLE		PROPOSED LIGHT POLE
EM	*EXISTING ELECTRIC METER*	EM	PROPOSED ELECTRIC METER
E	*EXISTING ELECTRIC MANHOLE*	E	PRPOSED ELECTRIC MANHOLE
GM	*EXISTING GAS METER*	GM	PROPOSED GAS METER
GV	*EXISTING GAS VALVE*	GV	PROPOSED GAS VALVE
GF	*EXISTING GAS BOX*	GF	PROPOSED GAS BOX
	EXISTING UTILITY POLE		PROPOSED UTILITY POLE
	EXISTING GUY WIRE / ANCHOR		PROPOSED GUY WIRE / ANCHOR
S	*EXISTING SANITARY MANHOLE*	S	PROPOSED SANITARY MANHOLE
SCO	*EXISTING SANITARY CLEANOUT*	SCO	PROPOSED SANITARY CLEANOUT
D	*EXISTING STORM MANHOLE*	D	PROPOSED STORM MANHOLE
	EXISTING SINGLE / DOUBLE CURB INLET		PROPOSED SINGLE / DOUBLE CURB INLET
	EXISTING CATCH BASIN		PROPOSED CATCH BASIN
DCO	*EXISTING STORM CLEANOUT*	DCO	PROPOSED STORM CLEANOUT
T	*EXISTING TELEPHONE MANHOLE*	T	PROPOSED TELEPHONE MANHOLE
TP	*EXISTING TELEPHONE PEDESTAL*	TP	PROPOSED TELEPHONE PEDESTAL
	EXISTING FIRE HYDRANT		PROPOSED FIRE HYDRANT
WM	*EXISTING WATER METER*	WM	PROPOSED WATER METER
WV	*EXISTING WATER VALVE*	WV	PROPOSED WATER VALVE
	EXISTING BUSHES / TREES		REMOVE EXISTING BUSH / TREE
	EXISTING SURVEY BENCHMARK		PROPOSED SLOPE DIRECTION
TB	*TEST BORING LOCATION*		

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

NOTES AND LEGEND

PROJECT NO. 242429

DISCIPLINE CIVIL

SHEET NAME NOTES

MAINTENANCE OF TRAFFIC NOTES

ITEM 614, MAINTAINING TRAFFIC

THE REQUIREMENTS FOR MAINTAINING TRAFFIC SHALL BE AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", CURRENT EDITION, THE PROPOSAL, THE SPECIFICATIONS, CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AND THESE PLANS. ANY VARIANCE FROM THESE REQUIREMENTS SHALL BE APPROVED IN ADVANCE BY THE DIRECTOR IN WRITING. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF SPRINGDALE, AT LEAST 48 HOURS IN ADVANCE (EXCLUSIVE OF SATURDAY, SUNDAY OR HOLIDAYS) OF HIS INTENT TO DIVERT TRAFFIC AND TWO WEEKS IN ADVANCE OF A DETOUR. NO CHANGE IN TRAFFIC PATTERNS SHALL TAKE PLACE DURING PEAK HOURS, 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC THROUGHOUT THE PROJECT CONSTRUCTION.

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT. BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE CITY OF SPRINGDALE AND ALL INTERESTED POLICE AGENCIES. THESE PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

B. TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES, AND SHALL BE CONTROLLED WITH FLAGGERS AND TRAFFIC CONTROL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

C. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR WILL BE PERMITTED TO CLOSE UP TO TWO LANES ON W. KEMPER ROAD TO MAINTAIN A MINIMUM OF TWO LANES OF TRAFFIC IN EACH DIRECTION.

D. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

G. ANY COST FOR ITEMS NOT SPECIFICALLY NOTED UNDER THE MAINTENANCE OF TRAFFIC NOTE OR TEMPORARY PAVEMENT MARKING REQUIRED TO REOPEN LANES SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 614, MOT.

THE CONTRACTOR SHALL OBEY ALL LOCAL LAWS AND ORDINANCES INCLUDING ANY NOISE RESTRICTIONS.

THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPEC. 614.

SPECIFIC ATTENTION WILL BE DIRECTED TOWARD THE PROPER USE OF FLAGGERS, LIGHTS, DRUMS, AND TEMPORARY PAVEMENT MARKINGS. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY SIGNS, AND PROVIDE TEMPORARY STRIPING. ALL WORK ZONES SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM CONTROL DEVICES. THE CONTRACTOR SHALL ALSO PROVIDE ALL PLATING, TEMPORARY PAVEMENT AND TRAFFIC CONTROL MEASURES NECESSARY TO MAINTAIN TRAFFIC. THE COST OF ALL TEMPORARY TRAFFIC CONTROL ITEMS NECESSARY TO SAFELY MAINTAIN TRAFFIC SHALL BE INCLUDED WITH PAYMENT FOR ITEM 614 MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC SHALL BE ONGOING THROUGH THE PROJECT, INCLUDING ALL PERIODS OF INACTIVITY BY THE CONTRACTOR, UNTIL FINAL ACCEPTANCE OF THE PROJECT.

MAINTAINING ADJACENT STREET TRAFFIC THE CONTRACTOR SHALL MAINTAIN TRAFFIC TO ALL ROADWAYS INTERSECTING THE CONSTRUCTION AREAS.

OPEN TRENCHES ALL OPEN TRENCHES FOR STORM SEWERS, WATERMAINS, ETC., SHALL BE PROPERLY DELINEATED FROM THE TRAVELED ROADWAY BY REFLECTIVE DRUMS. TRENCHES SHALL EITHER BE BACKFILLED OR COVERED FOR ANY EXTENDED PERIODS OF NO CONSTRUCTION IN ORDER TO MAINTAIN CONTINUOUS TWO-WAY TRAFFIC, PART WIDTH CONSTRUCTION AND OFF PEAK TRAFFIC VOLUME PERIODS (SEE NOTE "TIME RESTRICTIONS") SHALL BE UTILIZED TO CONSTRUCT ANY REQUIRED UTILITY CROSSOVERS, LATERALS, OR CATCH BASIN LEADS WITHIN THE TRAVELED ROADWAY.

MAINTENANCE OF DRIVEWAYS THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL DRIVEWAYS IN GOOD CONDITION WITH RESPECT TO BOTH SAFETY AND SMOOTHNESS OF TRAVEL FOR THE DURATION OF THE PROJECT. THE COST OF ADDITIONAL WORK AND MATERIAL NECESSARY TO REPAIR AND MAINTAIN THE DRIVEWAYS SHALL BE INCIDENTAL TO THE APPROPRIATE PAY ITEM.

COORDINATION WITH LOCAL BUSINESS OWNERS

BUSINESS OWNERS: THE CONTRACTOR SHALL WORK WITH LOCAL BUSINESS OWNERS TO ENSURE ACCESS TO ALLL PROPERTIES AT ALL TIMES. HOWEVER, SOME INCONVENIENCES WILL OCCUR. NO ADDITIONAL PAYMENT WILL BE MADE FOR COORDINATION OR PROVIDING ACCESS TO BUSINESSES.

CONSTRUCTION STIPULATION

A. THE CONTRACTOR SHALL NOT STORE MATERIALS AND EQUIPMENT, OPERATE EQUIPMENT ON OR OVER PROPERTY OTHER THAN THE PUBLIC RIGHT-OF-WAY OR AREAS THAT ARE A PART OF THE PROJECT CONSTRUCTION.

B. THE CONTRACTOR SHALL SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE STARTING WORK ON THIS PROJECT.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORGANIZE THE WORK IN SUCH A MANNER TO PROVIDE THE MOST SAFETY WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC.

D. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL ADDITIONAL SIGNS OR TRAFFIC CONTROL DEVICES DEEMED NECESSARY BY THE ENGINEER WITH ALL ASSOCIATED COSTS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - "MAINTENANCE OF TRAFFIC AS PER PLAN."

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24-HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

MAINTENANCE OF TRAFFIC NOTES

SEQUENCE OF CONSTRUCTION

IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC; THEREFORE, ALL PHASES SHALL HAVE STRICT ADHERENCE.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC.

PHASE ONE

THE CONTRACTOR SHALL PERFORM THE WORK ON THE SOUTH SIDE.

- REMOVE CURRENT STRIPING AND STRIPE FOR PHASE 1 MOT
- WHILE TRAFFIC IS MAINTAINED ON EXISTING PAVEMENT, CONSTRUCT SOUTH SIDE IMPROVEMENTS.

PHASE TWO

THE CONTRACTOR SHALL PERFORM THE WORK ON THE NORTH SIDE.

- REMOVE CURRENT STRIPING AND STRIPE FOR PHASE 2 MOT
- WHILE TRAFFIC IS MAINTAINED ON EXISTING PAVEMENT, CONSTRUCT NORTH SIDE IMPROVEMENTS.

PHASE THREE

THE CONTRACTOR SHALL GRIND AND INSTALL THE FINAL ASPHALT SURFACE AND PAVEMENT MARKINGS BY MAINTAINING TRAFFIC BY USE OF A-LANE CLOSURE PER STANDARD DRAWINGS MT-95.31,MT-95.32, AND MT-95.60. THIS WORK SHALL BE PERFORMED ON ALL LANES IN BOTH DIRECTIONS.

ALL PROJECT WORK MUST BE CONSIDERED TO BE SUBSTANTIALLY COMPLETE AND OPEN TO TRAFFIC BY OCTOBER 30, 2026.

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT AN ALTERNATE METHOD FOR MAINRTAINING TRAFFIC, PROVIDED THAT THE INTENT OF THE PROVISIONS ARE FOLLOWED AND NOT ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE CITY ADMINISTRATION AND THE CITY ENGINEER.

PAVEMENT DROP-OFF

A PAVEMENT EDGE THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY, SHOULD BE TREATED AS FOLLOWS:

- LESS THAN TWO INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.
- TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MPH AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING OF DEVICES ON TAPERED SECTIONS SHOULD BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- GREATER THAN FOUR INCHES - POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS FIVE FEET OR MORE DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE DROP-OFF, THEN DRUMS, PANEL, OR POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

THERE SHALL BE NO PAYMENT FOR MATERIAL USED FOR WEDGING AS THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TEMPORARY PAVEMENT WEDGE

TEMPORARY PAVEMENT WEDGES SHALL BE PROVIDED AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A PAVEMENT SURFACE OF A DIFFERENT ELEVATION. THE MINIMUM SLOPE OF TEMPORARY PAVEMENT WEDGE SHALL BE 3:1 ALONG LOGITUDINAL JOINTS AND 120:1 AT TRANVERSE JOINTS. THESE WEDGES SHALL BE REMOVED TO PLACING THE SPECIFIED PAVEMENT COURSE. PAYMENT FOR ALL WORK, MATERIAL, ETC. ASSOCIATED WITH THIS ITEM SHALL BE PAID FOR UNDER MAINTAINING TRAFFIC LUMP SUM.

SIDEWALK DROP-OFF

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS SIDE APRON SLOPE STEEPER THAN 1:3

(33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

HOLIDAY TRAFFIC LIMITATION

NO WORK SHALL BE PERFORMED, AND ALL EXISTING LANES WHICH ARE NOT INSIDE A DESIGNATED WORK ZONE SHALL BE OPEN TO TRAFFIC DURIGN THE FOLLOWING DESIGNATED HOLIDAY OR EVENTS:

NEW YEARS DAY (JANUARY 1)

MARTIN LUTHER KING DAY (THIRD MONDAY IN JANUARY)

EASTER SUNDAY (APRIL 5, 2026)

MEMORIAL DAY (LAST MONDAY IN MAY)

INDEPENDENCE Day (JULY 4)

LABOR DAY (FIRST MONDAY IN SEPTEMBER)

THANKSGIVING DAY (FOURTH THURSDAY IN NOVEMBER)

CHRISTMAS DAY (DECEMBER 25)

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

MAINTENANCE OF TRAFFIC NOTES

PEDESTRIAN ACCESS

PEDESTRIAN ACCESS SHALL BE MAINTAINED TO ALL EXISTING BUSINESSES, RESIDENCES. THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT TEMPORARY WALK SURFACES TO BUSINESS ENTRANCES DURING SIDEWALK RECONSTRUCTION OR OTHER OPERATIONS THAT WOULD OTHERWISE INHIBIT ACCESS.

THE CONTRACTOR SHALL PROVIDE MEASURES THAT ESTABLISH AND MAINTAIN TEMPORARY PEDESTRIAN ACCESS ROUTES (TPAR) THROUGH THE WORK ZONES IN COMPLIANCE WITH THE MOST CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND THE PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG). THE VARIOUS DEVICES AND/OR FEATURES SHALL BE INSTALLED IN A UNIFORM MANNER TO PROVIDE CONSISTENT ACCESSIBLE ROUTES FOR ABLE-BODIED AND DISABLED PEDESTRIANS THROUGH THE WORK ZONES.

THE CONTRACTOR SHALL FOLLOW THE CURRENT EDITION OF THE OHIO MUTCD PART 6 STANDARDS AND GUIDANCE FOR PEDESTRIAN AND WORKER SAFETY AND TTC DEVICES. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A CONSTRUCTION ZONE, THE TEMPORARY PEDESTRIAN ACCOMMODATION FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY. TEMPORARILY INSTALLED OR RELOCATED CROSSWALKS SHALL INCLUDE TEMPORARY ADA ACCESSIBLE CURB RAMPS, INCLUDING DETECTABLE WARNING DEVICES (TRUNCATED DOMES) TO ACCESS SIDEWALKS.

THE CONTRACTOR SHALL REFER TO FIGURE 6H-28 FOR SIDEWALK DETOUR OR DIVERSIONS, AND FIGURE 6H-29 FOR CROSSWALK CLOSURES AND PEDESTRIAN DETOURS IN THE 2009 MUTCD FOR GUIDANCE ON MANAGING PEDESTRIANS IN THE VICINITY OF WORK ZONES WITHIN SIDEWALK AREAS. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM THESE LEVELS OF TEMPORARY PEDESTRIAN SIGNING AND PROTECTION MEASURES FOR THIS PROJECT. PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICTS WITH OBSTRUCTIONS.

THE CONTRACTOR SHALL PLACE TEMPORARY BARRIERS AT THE LIMITS OF WORK TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.

ALL ITEMS OF WORK NECESSARY TO MAINTAIN PEDESTRIAN TRAFFIC IS INCIDENTAL TO THE LUMP SUM LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

EQUIPMENT AND MATERIAL STORAGE

TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ITEM 614.03. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

1. ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT-OF-WAY FOR MORE THAN THIRTY DAYS.
2. ALL DISTRUBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE CITY.

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT AUTHORITY.

INSTALLATION OF WORK ZONE PAVEMENT MARKINGS AND SIGNS

ALL WORK ZONE PAVEMENT MARKINGS AND SIGNS REQUIRED FOR A PARTICULAR LANE CLOSURE OR TRAFFIC PATTERN SHALL BE INSTALLED ON A SINGLE WORKDAY, AND THE CORRESPONDING TRAFFIC PATTERN, AS DETAILED ON THE PLANS, SHALL BE IMPLEMENTED IMMEDIATELY. IN ADDITION, THE REQUIREMENTS OF 614.11(G) SHALL APPLY. THE CONTRACTOR SHALL BE RESPONSIBLE, WITH THE ASSISTANCE OF THE ENGINEER, FOR THE ENTIRE LAYOUT AND LOCATIONS OF THE REQUIRED PAVEMENT MARKINGS.

MAINTENANCE OF TRAFFIC NOTES

COORDINATION WITH LOCAL BUSINESS OWNERS

BUSINESS OWNERS: THE CONTRACTOR SHALL WORK WITH LOCAL BUSINESS OWNERS TO ENSURE ACCESS TO ALLL PROPERTIES AT ALL TIMES. HOWEVER, SOME INCONVENIENCES WILL OCCUR. NO ADDITIONAL PAYMENT WILL BE MADE FOR COORDINATION OR PROVIDING ACCESS TO BUSINESSES.

THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS 48 HOURS IN ADVANCE BEFORE COMMENCING WORK .

TEMPORARY BLOCKING OF THE DRIVEWAY TO ANY RESIDENTIAL PROPERTY DURING CONSTRUCTION IS ALLOWABLE (MAX. 120 HOURS). HOWEVER, ACCESS TO PROPERTIES FOR DELIVERIES, SERVICE, EMERGENCY VEHICLES, ETC., SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, THE CONTRACTOR MUST NOTIFY ALL RESIDENTS IN WRITING 48 HOURS BEFORE COMMENCING TO ALLOW THEM ADEQUATE TIME TO MOVE ANY VEHICLE IN OR OUT.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE RESIDENT AND/OR BUSINESS AND GIVE A COPY OF SAID WRITTEN NOTICE TO THE PROJECT INSPECTOR 48 HOURS PRIOR TO BEING ALLOWED TO COMMENCE WORK WHICH WOULD INVOLVE ACCESS TO SAID PROPERTY.

TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC. THESE TEMPORARY SIDEWALKS, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.

COORDINATION WITH METRO

THE CONTRACTOR SHALL CONTACT THE SOUTHWEST OHIO REGIONAL TRANSIT AUTHORITY (SORTA) AND PROVIDE A WRITTEN NOTIFICATION FOURTEEN (14) BUSINESS DAYS PRIOR TO ANY CONSTRUCTION THAT WILL AFFECT NEARBY BUS STOPS OR SERVICE.

THE CONTRACTOR SHALL NOTIFY SORTA AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF ALL STREET CLOSURES AFFECTING TRANSIT OPERATIONS REGARDLESS OF THE DURATION OF THE CLOSURE. THIS WILL ALLOW SORTA SUFFICIENT TIME TO PLAN DETOURS AND NOTIFY THE GENERAL PUBLIC,

THE CONTRACTOR SHALL WORK WITH SORTA TO ESTABLISH AN APPROVED TEMPORARY BUS STOP LOCATION AS DEEMED NECESSARY BY SORTA.

SORTA WILL PROVIDE AND POST THE APPROPRIATE TEMPORARY BUS SIGN SIGNAGE.

THE CONTRACTOR SHALL NOTIFY SORTA AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF CONSTRUCTION COMPLETION SO THE PERMANENT BUS STOP SIGNS CAN BE RE-INSTALLED BY SORTA

CONTRACTO MAY NOT REMOVE ANY BUS STOP SIGNS WITHOUT PRIOR AUTHORIZATION FROM SORTA.

COST FOR COORINATION IS INCLUDED IN THE LUMP SUM CONTRACT BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC.

UTILITY NOTES

UTILITIES DATA IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANIES AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THE ENGINEER OR THE OWNER IS NOT RESPONSIBLE OR LIABLE FOR DATA SUPPLIED BY OTHERS.

UTILITIES NOT UNDERGROUND, AND PRIVATE SEPTIC SYSTEMS IN SINGLE OR DOUBLE FAMILY DWELLINGS UTILIZED FOR ONLY THAT DWELLING AND NOT CONNECTED TO ANY OTHER SYSTEM ARE NOT INCLUDED ON THE PLAN.

WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT, THE OWNER SHALL NOTIFY ALL UTILITIES OF THE NAME, ADDRESS AND PHONE NUMBER OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE AND NON-MEMBER OWNERS OF THE STARTING DATE AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK. THE UTILITY SHALL MARK, STAKE OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND FACILITIES WITHIN 48 HOURS OF RECEIVING THE CONTRACTORS NOTICE OF A STARTING DATE. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNERS OF THE UNDERGROUND FACILITIES ANY BREAK OR LEAK IN THE FACILITIES, OR ANY DENT, GOUGE, GROOVE OR OTHER DAMAGE. THE CONTRACTOR SHALL NOTIFY NEARBY OCCUPANTS OF ANY EMERGENCY SITUATION THAT MAY ARISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ACTIVITIES AND SCHEDULES.

ALL UTILITY RELOCATIONS AND/OR ADJUSTMENTS SHALL BE COORDINATED BETWEEN CONTRACTOR AND THE UTILITY OWNERS IN SUCH A WAY AS TO AVOID AND/OR MINIMIZE ANY INCONVENIENCE TO POTENTIALLY AFFECTED CUSTOMERS. UPON THE CONTRACT AWARD, THE COORDINATION OF ALL NECESSARY UTILITY RELOCATIONS AND/OR ADJUSTMENTS SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

MSD HAS EXISTING FACILITIES WITHIN THE CONSTRUCTION LIMITS OR PROJECT AREA THAT WILL STAY IN PLACE AND IN SERVICE. TO SCHEDULE AN MSD INSPECTOR, THE CONTRACTOR SHALL CONTACT RAY SCHORK OF MSD WWE INSPECTIONS AT 513.244.5537 OR MSDWWEINSPECTIONS@CINCINNATI-OH.GOV A MINIMUM OF FIVE (5) BUSINESS DAYS BEFORE STARTING CONSTRUCTION ON OR NEAR MSD SEWERS, INCLUDING ANY MANHOLE ADJUSTMENTS REQUIRED FOR THE PROJECT. MANHOLE ADJUSTMENTS MUST BE MADE PER MSD STANDARD DRAWING ACCESSION NOS. 49058 OR 49058-A

49058: SANITARY MANHOLE ADJUSTMENT USING BRICK AND MORTAR PRIOR TO MACHINE PAVING

49058-A: SANITARY MANHOLE ADJUSTMENT WITH PRECAST CONCRETE RING AND MORTAR PRIOR TO MACHINE PAVING

COORDINATION WITH GCWW

THE CONTRACTOR SHALL CONTACT MIKE LAWSON, SUPERVISOR OF INSPECTION, AT 591-7870 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO THE START OF THE WORK INCLUDED ON THE GCWW CONSTRUCTION DRAWINGS.

SYMBOL LEGEND

- EXISTING GAS LINE
- EXISTING GAS SERVICE
- EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
- EXISTING CABLE (UNDERGROUND / OVERHEAD)
- EXISTING TELEPHONE (UNDERGROUND / OVERHEAD)
- EXISTING WATER MAIN
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING ROOF DRAIN
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCE MAIN
- EXISTING FIBER OPTICS
- EXISTING FENCE
- EXISTING CONTOURS (MAJOR)
- EXISTING CONTOURS (MINOR)
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING GUARDRAIL
- EXISTING TREE LINE
- PROPOSED GAS LINE
- PROPOSED GAS SERVICE
- EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
- PROPOSED CABLE (UNDERGROUND / OVERHEAD)
- PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD)
- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCE MAIN
- PROPOSED FIBER OPTICS
- PROPOSED FENCE
- PROPOSED CONTOURS (MAJOR)
- PROPOSED CONTOURS (MINOR)
- PROPOSED RIGHT OF WAY
- PROPOSED PROPERTY LINE
- PROPOSED EASEMENT
- PROPOSED GUARDRAIL
- PROPOSED TREE LINE / CLEARING LIMITS
- PROPOSED DISTURBED LIMITS
- EXISTING FLAGPOLE
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING CABLE PEDESTAL
- EXISTING ELECTRIC PEDESTAL
- EXISTING PULL BOX
- EXISTING GROUND LIGHT
- EXISTING LIGHT POLE
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC MANHOLE
- EXISTING GAS METER
- EXISTING GAS VALVE
- EXISTING GAS BOX
- EXISTING UTILITY POLE
- EXISTING GUY WIRE / ANCHOR
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY CLEANOUT
- EXISTING STORM MANHOLE
- EXISTING SINGLE / DOUBLE CURB INLET
- EXISTING CATCH BASIN
- EXISTING STORM CLEANOUT
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING BUSHES / TREES
- EXISTING SURVEY BENCHMARK
- TEST BORING LOCATION
- PROPOSED FLAGPOLE
- PROPOSED MAILBOX
- PROPOSED SIGN
- PROPOSED CABLE PEDESTAL
- PROPOSED ELECTRIC PEDESTAL
- PROPOSED PULL BOX
- PROPOSED GROUND LIGHT
- PROPOSED LIGHT POLE
- PROPOSED ELECTRIC METER
- PRPOSED ELECTRIC MANHOLE
- PROPOSED GAS METER
- PROPOSED GAS VALVE
- PROPOSED GAS BOX
- PROPOSED UTILITY POLE
- PROPOSED GUY WIRE / ANCHOR
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED STORM MANHOLE
- PROPOSED SINGLE / DOUBLE CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED STORM CLEANOUT
- PROPOSED TELEPHONE MANHOLE
- PROPOSED TELEPHONE PEDESTAL
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- PROPOSED WATER VALVE
- REMOVE EXISTING BUSH / TREE
- PROPOSED SLOPE DIRECTION

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

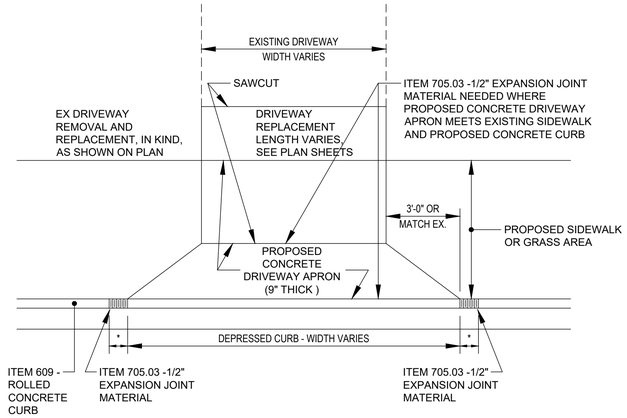
NOTES AND LEGEND

PROJECT NO. 242429

DISCIPLINE: CIVIL

SHEET NAME: NOTES

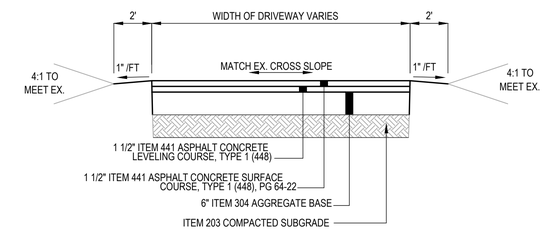
SHEET 4 OF 47



* 1'-6" TRANSITION FROM STANDARD CURB HEIGHT TO DEPRESSED CURB

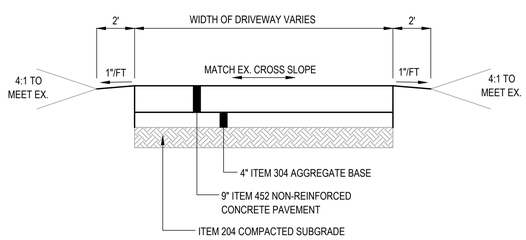
ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT

NTS



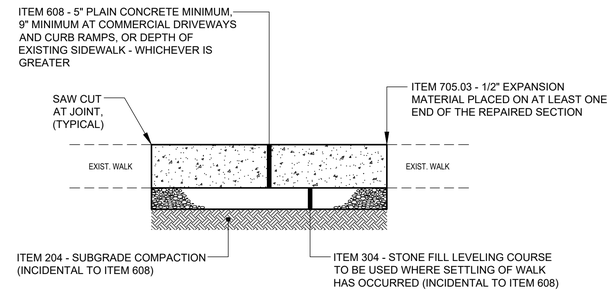
ASPHALT DRIVEWAY REPLACEMENT

NTS



CONCRETE DRIVEWAY REPLACEMENT

NTS

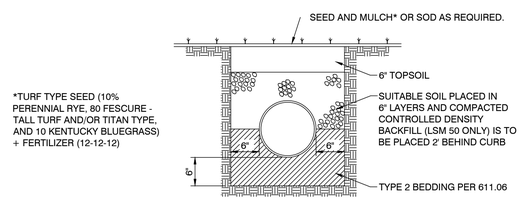


ITEM 608 - SIDEWALK REPLACEMENT

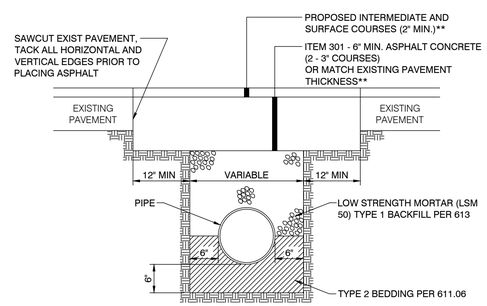
NTS

NOTES:

1. THE CITY SHALL MARK IN THE FIELD THE WALK TO BE REPLACED, REPLACEMENT WALK SHALL MATCH THE LINE AND GRADE OF THE EXISTING WALK AND THE SAME JOINT PATTERN SHALL BE MAINTAINED. ITEM 705.03 - 1/2" PREFORMED EXPANSION JOINT MATERIAL SHALL BE PLACED ON AT LEAST ONE END OF THE REPAIRED AREA. ALL REPAIRS ARE TO BE MADE TO THE NEAREST JOINT. ANY DAMAGE TO ADJACENT WALK OR DRIVEWAY BY THE CONTRACTOR SHALL BE REPAIRED AND THE COST SHALL BE INCURRED BY THE CONTRACTOR.
2. THE FINISH APPLIED TO THE CONCRETE WALK SHALL BE CONSISTENT WITH THE EXISTING WALK IT IS TO MATCH AND BE APPROVED BY THE CITY. ALL JOINTS AND OUTSIDE EDGES OF THE WALK SHALL BE TOOLED WITH AN EDGER OR JOINT TOOL AFTER BROOMING OR HAND FINISHING OF THE FINAL SURFACE.
3. THE REPLACEMENT SIDEWALK SHALL BE A MINIMUM THICKNESS OF 7" AT RESIDENTIAL APRONS, 9" AT COMMERCIAL APRONS AND CURB RAMPS.
4. ALL DISTURBED YARD AREAS SHALL BE RESTORED TO GRADE, SEEDED, AND MULCHED BEFORE THE WORK IS APPROVED FOR PAYMENT AND SHALL BE INCIDENTAL TO ITEM 608.
5. ALL CHANGES TO SIDEWALK GEOMETRY SHALL INCORPORATE ROUNDED TRANSITIONS. HARD ANGLES ARE NOT PERMITTED.



(IN GRASS AREAS)



(IN PAVEMENT)

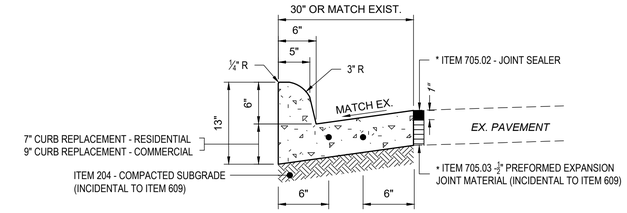
** CONCRETE PAVEMENT REPLACEMENT SHALL CONFORM TO ITEM 451 OF ITEM 452 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION AND HAVE A PAVEMENT THICKNESS OF 9" . CONCRETE PAVEMENT SHALL BE SAWCUT FULL DEPTH OF PAVEMENT, REMOVED AND REPLACED TO THE NEAREST JOINT. THE REMOVAL OF PARTIAL BLOCKS IS NOT PERMITTED.

NOTES:

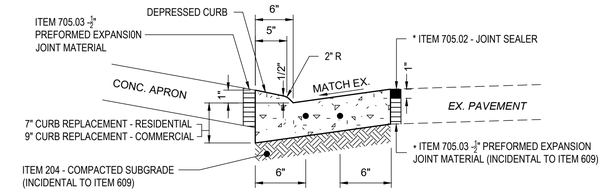
1. ALL BACKFILLING SHALL BE INSPECTED BY THE CITY OF SPRINGDALE PUBLIC WORKS DEPARTMENT.
2. ALL GRANULAR DRAINAGE BLANKETS DISTURBED SHALL BE REPLACED USING MATERIALS EXACTLY MATCHING EXISTING MATERIALS. PLACEMENT OF ALL MATERIALS SHALL BE INSPECTED BY THE CITY OF SPRINGDALE PUBLIC WORKS DEPARTMENT.
3. DISTURBED UNDER DRAINS SHALL BE REPLACED USING MATERIALS EXACTLY MATCHING EXISTING MATERIALS AND SHALL BE REPLACED USING MATERIALS EXACTLY MATCHING EXISTING MATERIALS AND SHALL BE INSPECTED BY CITY OF SPRINGDALE PUBLIC WORKS DEPARTMENT.
4. SEE STANDARD *DETAILS 6, 7, AND 8,* FOR PAVEMENT REMOVAL REQUIREMENTS.

TRENCH RESTORATION DETAILS

NTS



VERTICAL CURB & GUTTER



DEPRESSED VERTICAL CURB & GUTTER

NOTES:

1.) PROVIDE 2 - 5/8" DIAMETER DOWELS, 18" LONG, DRILLED 9" MINIMUM INTO EXISTING CONCRETE CURB AT EACH END OF REPAIR WHERE REPAIR CROSSES DRIVE ONLY.

2.) IF EXISTING CURB HAS BEEN OVERLAYED WITH ASPHALT, THE CURB SHALL BE REPLACED TO MATCH EXISTING CURB & THE ASPHALT OVERLAY REPLACED. THE DIMENSIONS FOR THE DEPRESSED CURB SHALL THEN BE TAKEN FROM THE TOP OF THE NEW OVERLAY.

3.) THE MINIMUM CURB REPLACEMENT SECTION SHALL BE 3'-0" AND EXPANSION MATERIAL SHALL BE PLACED ON AT LEAST ONE END OF THE REPAIRED SECTION. 40' MAXIMUM SPACING DISTANCE OF EXPANSION JOINTS. THE TYPICAL REMOVAL AND REPLACEMENT SEGMENT SHALL BE FROM EXISTING JOINT TO EXISTING JOINT.

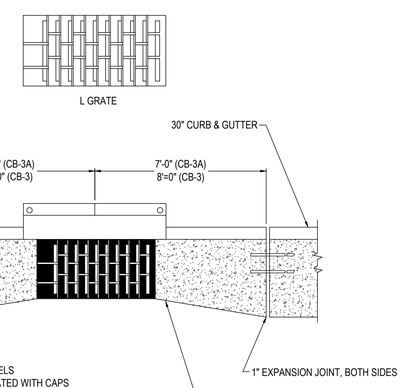
4.) EXPANSION JOINT MATERIAL AND JOINT SEALER IS NOT REQUIRED FOR THAT PORTION OF THE CURB WHICH IS ADJACENT TO A FLEXIBLE TYPE PAVEMENT. BOTH MATERIALS ARE REQUIRED AS DETAILED FOR THE FULL HEIGHT OF THE RIGID PAVEMENT AND CONCRETE BASE.

5.) IF UPON REMOVAL OF THE EXISTING CURB AND GUTTER IT IS DETERMINED THAT GRADING IN THIS AREA WILL BE REQUIRED TO ACCOMMODATE THE NEW CURB AND GUTTER; ONE OF THE FOLLOWING WILL TAKE PLACE:
   A.) ADDITIONAL GRADING WILL BE REQUIRED TO BRING THE GRADE TO THE PROPER ELEVATION.
   B.) PLACEMENT AND COMPACTION OF ITEM 304, AGGREGATE BASE, SHALL TAKE PLACE TO BRING THE GRADE TO THE PROPER ELEVATION.
   ALL MATERIAL AND LABOR REQUIRED TO COMPLETE THE ABOVE NOTED ACTION SHALL BE INCIDENTAL TO THE APPROPRIATE ITEM 609.

6.) ANY PATCHING OR REPAIR ON ADJACENT PAVEMENT IS INCIDENTAL TO ITEM 609.

ITEM 609 - STANDARD CURB REPLACEMENT DETAILS

NTS



NOTES:
1. VANE GRATES MUSH BE USED AT SLOPES GREATER THAN 2%.
2. ALL GRATES MUST BE BICYCLE-SAFE.

ITEM 609 - VERTICAL CURB REPLACEMENT ADJACENT TO CB

NTS

verdantas

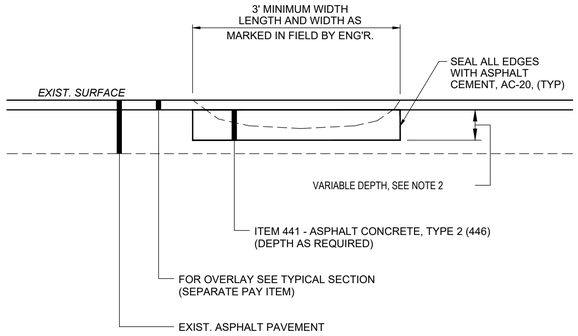
NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

DETAILS

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME DET
SHEET 5 OF 47

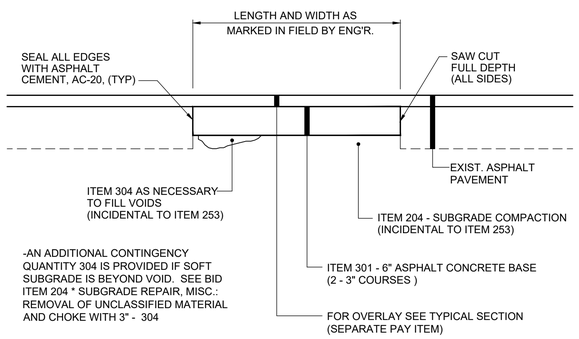


ITEM 251 - PARTIAL DEPTH ASPHALT PAVEMENT REPAIR

NOTES:

1.) THE FINAL AREAS TO BE REPAIRED UNDER THIS ITEM WILL BE DESIGNATED IN THE FIELD BY THE ENGINEER AND THE QUANTITY OF WORK TO BE COVERED UNDER THIS ITEM WILL BE BASED UPON MEASUREMENT OF THESE DESIGNATED AREAS.

2.) REMOVE DETERIORATED PAVEMENT TO THE DEPTH SPECIFIED BY THE ENGINEER, SQUARING THE EDGES OF THE AREA TO BE REPAIRED. COAT THE SURFACE AREA WITH 407 MATERIAL BEFORE PLACING ITEM 448. WHEN DETERIORATION EXTENDS TO A DEPTH OF MORE THAN 4" IN THE CONCRETE, AND AT THE DIRECTION OF THE ENGINEER, A FULL DEPTH REMOVAL AND CONCRETE PAVEMENT REPLACEMENT SHALL BE MADE. (UNDER A SEPARATE PAY ITEM).

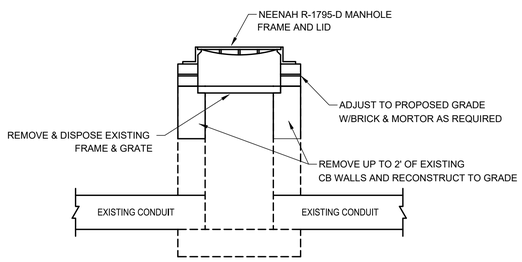


ITEM 253 - PAVEMENT REPAIR

NOTES:

1.) THE FINAL AREAS TO BE REPAIRED UNDER THIS ITEM WILL BE DESIGNATED IN THE FIELD BY THE ENGINEER AND THE QUANTITY OF WORK TO BE COVERED UNDER THIS ITEM WILL BE BASED UPON MEASUREMENT OF THESE DESIGNATED AREAS.

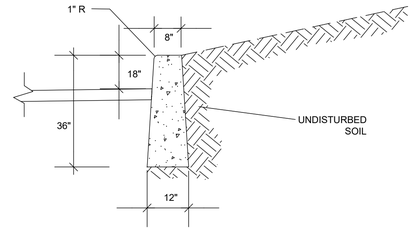
2.) THE UNIT BID PRICE FOR "ITEM 253, PAVEMENT REPAIR", SHALL INCLUDE ALL THE COSTS INCURRED FOR REMOVAL OF PAVEMENT AND SUBGRADE & PLACEMENT OF MATERIALS AS NOTED IN THE DETAIL.



* UNIT PRICE BID FOR ITEM 611, CONVERT EXISTING CATCH BASIN TO MANHOLE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO REMOVE & DISPOSE EXISTING FRAME AND GRATE, REMOVE A PORTION OF EXISTING CATCH BASIN, BRICK & MORTOR TO ADJUST TO GRADE, AND INSTALL NEENAH R-1795-D MANHOLE FRAME AND LID.

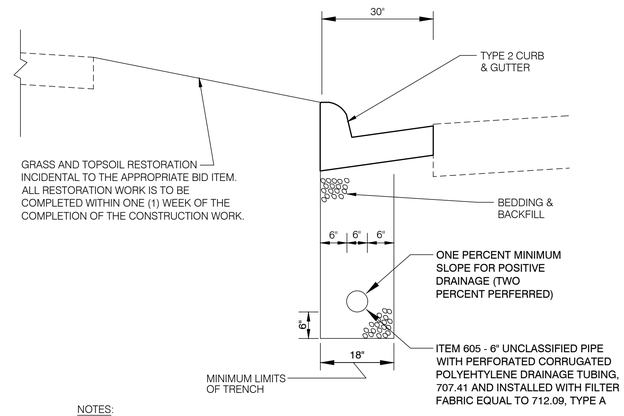
CONVERT EXISTING CATCH BASIN TO MANHOLE DETAIL

NTS



MODIEFIED ODOT TYPE 7 CURB

NTS



NOTES:

1.) CONTRACTOR TO ADJUST ALIGNMENT OF THE UNDERDRAIN WHERE NECESSARY (UNDER THE SUPERVISION OF THE CITY INSPECTOR) BOTH HORIZONTALLY AND VERTICALLY TO AVOID GAS, WATER SERVICES AND DRIVE APRONS THAT ARE NOT SCHEDULED FOR REPLACEMENT.

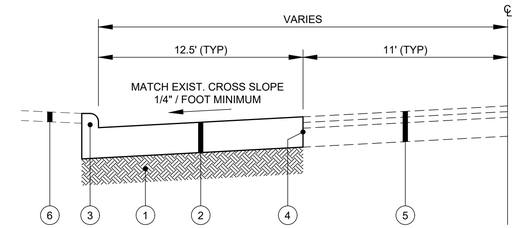
2.) ALL PIPE AND FITTINGS TO BE SCHEDULE 40 PVC GLUED AT CONNECTIONS.

3.) AT CURVES IN ROADWAY MAXIMUM OF 45° BENDS SHALL BE UTILIZED.

4.) THE CONTRACTOR SHALL TIE THE PROPOSED 6" UNDERDRAIN INTO INLETS AS DIRECTED BY THE ENGINEER.

ITEM 605 - UNDERDRAIN, MISC.: 6" SHALLOW PIPE UNDERDRAIN

NTS



LEGEND

1. SUBGRADE COMPACTION
2. ITEM 452 - 11" PLAIN CONCRETE PAVEMENT, CLASS SF, 4000 PSI, PER ITEM 449
3. REMOVE EXISTING VERTICAL CONCRETE CURB AND POUR MONOLITHIC WITH PROPOSED BUS PAD
4. SAW CUT FULL DEPTH, APPLY HOT JOINT SEALER AT ALL EDGES
5. EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY
6. DO NOT DISTURB EXISTING CONCRETE WALK

NOTES:

1.) ALL BUS PADS TO BE FIELD LOCATED BY THE ENGINEER AND BE APPROXIMATELY 80' LONG x 12.5' WIDE x 11" THICK IN SIZE.

2.) ALL WORK TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT COST PER SQUARE YARD - INCLUDING EXCAVATION, CURB REMOVAL AND REPLACEMENT, SUBGRADE COMPACTION, AND SAW CUTTING.

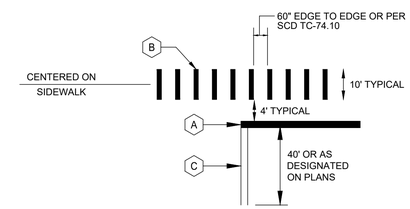
3.) TINE AND BROOM FINISH CONCRETE SURFACE PER SEC. 451.10 AND PROVIDE TOOLED JOINTS A MINIMUM OF 20' SPACING OR AS DIRECTED BY THE ENGINEER.

4.) A MINIMUM 2-DAY WET CURE USING BURLAP AND A PLASTIC COVER SHALL BE UTILIZED TO CURE THE NEW SLABS AND CURB.

5.) ALL PROPOSED BUS PADS SHALL BE FLUSH WITH THE EXISTING PAVEMENT.

ITEM 452 - 11" PLAIN CONCRETE PAVEMENT BUS PAD DETAIL

NTS

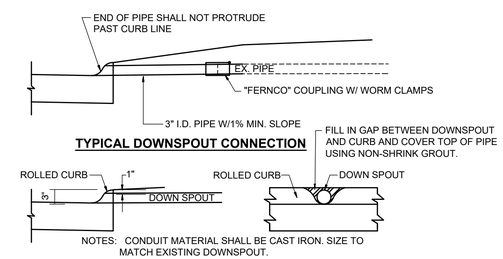


LEGEND

- A ITEM 644 - 24" STOP LINE
- B ITEM 644 - CROSSWALK LINE, 24"
- C ITEM 644 - 4" SOLID DOUBLE YELLOW CENTERLINE

ITEM 644 - PAVEMENT MARKING DETAIL

N.T.S.



NOTES: CONDUIT MATERIAL SHALL BE CAST IRON. SIZE TO MATCH EXISTING DOWNSPOUT.

DOWNSPOUT LEADER IS TO DRAIN ONLY DOWNSPOUTS, AND SHALL NOT BE CONNECTED TO ANY UNDERGROUND WATER SOURCE.

ITEM 611, DOWNSPOUT CONDUIT, MISC : PVC SCHEDULE 40 PIPE, 3"

N.T.S.

verdantas

NO	REVISION	DATE

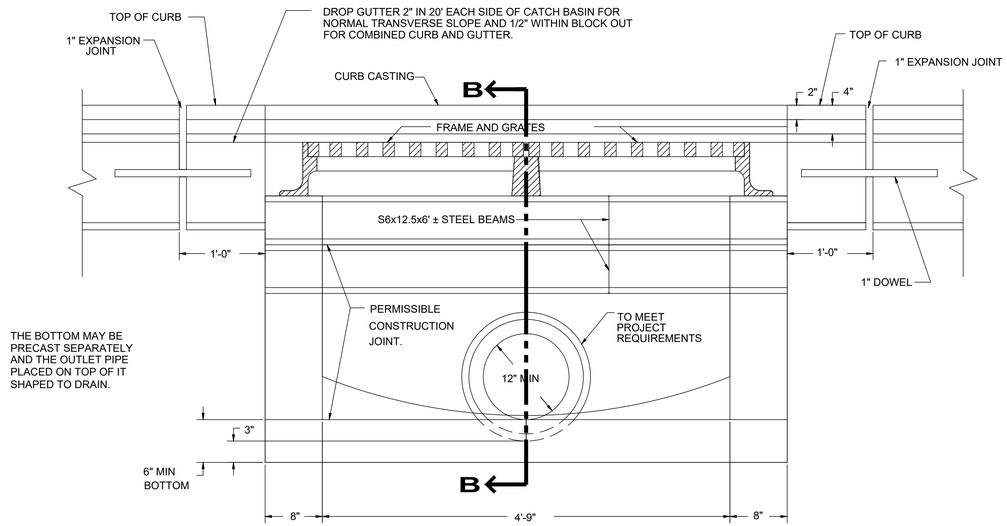
ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRNG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

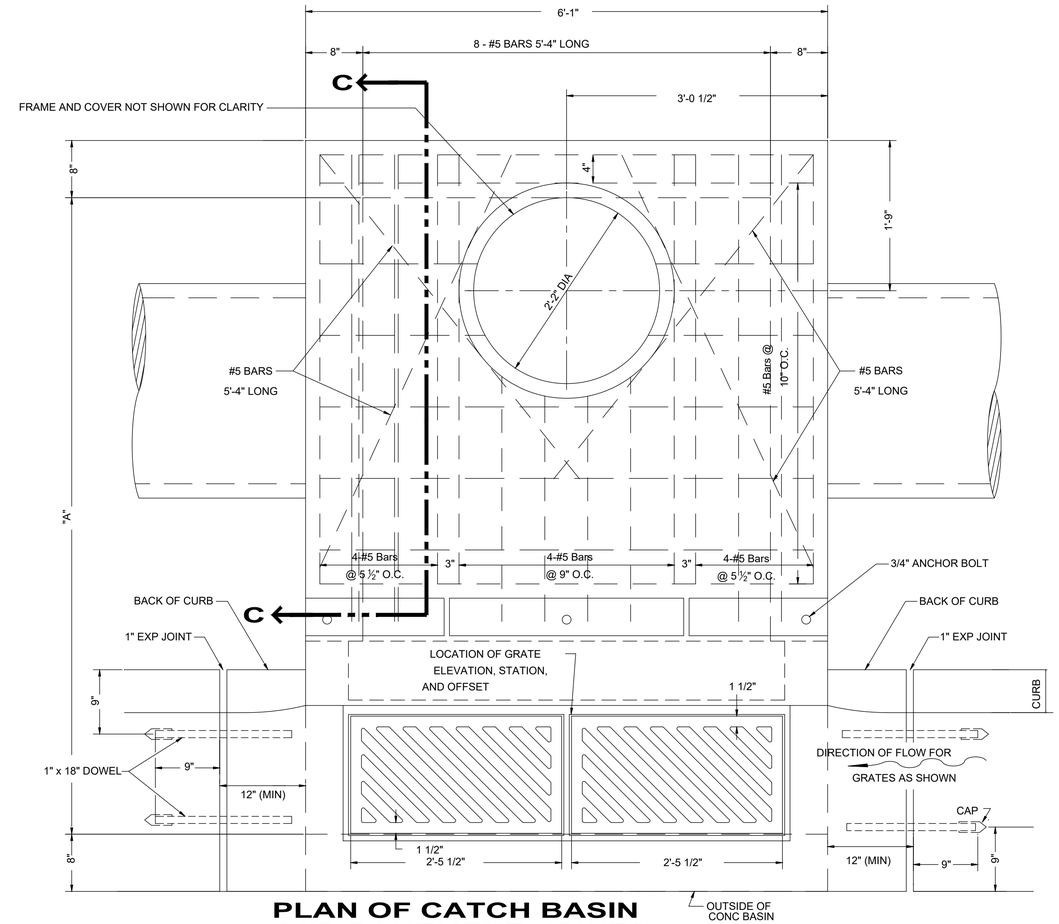
DETAILS 2

PROJECT NO.
242429
DISCIPLINE
CIVIL
SHEET NAME
DET2

SHEET	OF
6	47



SECTION A-A



PLAN OF CATCH BASIN AND PAVEMENT JOINTS

* DOWEL LOCATION FOR CURB AND GUTTER

NOTES

GRATES: TWO REQUIRED. FOR DETAILS, SEE SCD CB-2.2. GRATE "V" SHALL BE PROVIDED UNLESS THE PLANS SPECIFICALLY REQUIRE THE DIAGONAL GRATE. IF THE DIAGONAL GRATE IS SPECIFIED, IT SHALL BE PLACED SO THAT THE DIAGONAL BARS DIRECT DRAINAGE FLOW TOWARD THE CURB.

CASTINGS: THE DESIGN SHALL BE ESSENTIALLY THE SAME AND CASTINGS: EQUALLY AS STRONG AS SHOWN. MINIMUM WEIGHT [MASS]:

CURB CASTING . . . . . 305 LBS. [138 KG]
TWO GRATES . . . . . 254 LBS. [115 KG],
FRAME . . . . . 590 LBS. [267 KG],
AND TWO GRATE "V" . . . . 210 LBS. [95 KG].

LIGHTER WEIGHT FRAMES AND GRATES THAT MEET THE RE-QUIREMENTS OF CMS 711.14 MAY ALSO BE PROVIDED. GRATE OPENINGS AND DIMENSIONS SHALL NOT DIFFER FROM THOSE SHOWN, UNLESS OTHERWISE SHOWN IN THE PLANS.

THE FOLLOWING TEXT SHALL BE CAST INTO THE TOP OF THE CURB CASTING:

"DUMP NO WASTE" "DRAINS TO WATERWAY"

TEXT SHALL BE PRINTED IN BOLD, CAPITAL LETTERS WITH A MINIMUM HEIGHT OF ¾ ". SEE EXAMPLE ON PLAN & SECTION. "WATERWAY" MAY BE SUBSTITUTED WITH "STREAM","RIVER", "LAKE", ETC. ACTUAL PLACEMENT AND LOGO MAY VARY PER MANUFACTURER.

BEARING AREAS: THE FRAME AND GRATE SHALL BE SO FITTED AND FINISHED AS TO PROVIDE A FIRM AND EVEN SEAT. NO PROJECTIONS SHALL EXIST ON BEARING AREAS AND THE GRATE SHALL SEAT IN ITS FRAME WITHOUT RACKING.

WALLS: WHEN USED IN PLACE OF CONCRETE, BRICK SIDE WALLS SHALL BE 8" [200] NOMINAL THICKNESS.

PRECAST CONSTRUCTION: PERMITTED, EXCEPT FOR THE APRON. CONCRETE SHALL MEET REQUIREMENTS OF CMS 706.13. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" [150] AND REINFORCING SHALL BE SUFFICIENT TO PERMIT SHIPPING AND PLACEMENT WITHOUT DAMAGE. THE WALL THICKNESS REDUCTION SHALL BE FROM THE OUTSIDE.

MINIMUM DEPTH: THE MINIMUM DEPTH IS PER THE COVER REQUIREMENTS FOR THAT PIPE TYPE.

NOTES (CONT.)

OPENINGS: ANY PIPE OPENINGS GREATER THAN 4" [100] FROM THE OUTSIDE OF THE PIPE TO THE STRUCTURE REQUIRE THE ENGINEER'S APPROVAL. FILL ALL VOIDS PER CMS 604.

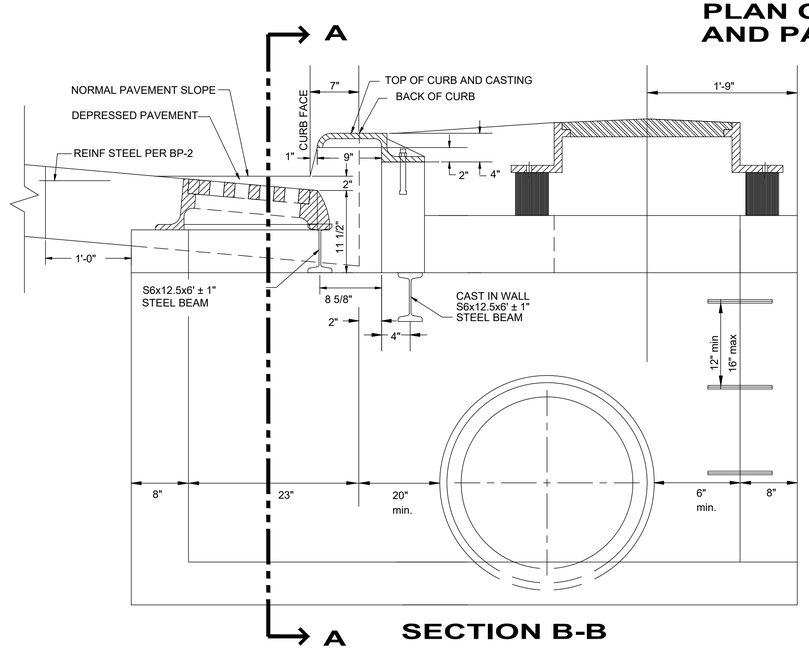
DOWELS: FOUR 1"X18" [25X450] DOWELS ARE REQUIRED FOR DOWELS: CONCRETE PAVEMENT OR GUTTER BLOCKOUT. SEE SCD BP-2.2 FOR DOWEL DETAILS.

BLOCKOUT: BLOCKOUTS SHALL BE PAVED WITH CLASS C CON-CRETE IN PCC PAVEMENT OR GUTTER, AND PAID FOR AS PART OF THE PAVEMENT OR GUTTER WITH NO DEDUCTION IN PAVE-MENT, CURB OR GUTTER QUANTITIES BECAUSE OF THE CASTINGS. A CLASS C CONCRETE APRON, THE SIZE OF THE 2'-0" [600] GUTTER BLOCKOUT, SHALL BE CAST-IN-PLACE IN ASPHALT PAVEMENT (NO DOWELS REQUIRED) WITH THE COST INCLUDED IN THE CATCH BASIN BID PRICE. NO DEDUCTION TO BE MADE IN CURB QUANTITIES.

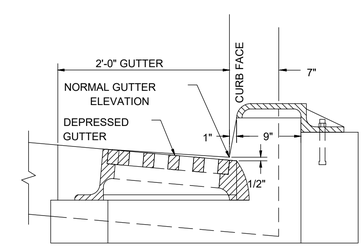
REINFORCING STEEL: ALL REINFORCING STEEL SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE NOTED.

STEPS: SHALL BE PROVIDED WHERE THE DEPTH EXCEEDS 48" AND SHALL MEET THE REQUIREMENTS OF DRAWING MH-1.

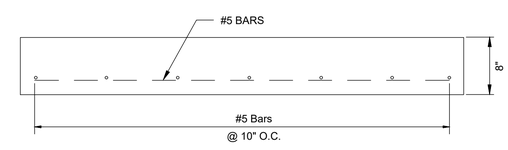
PAYMENT: ALL MATERIALS AND LABOR, INCLUDING EXCAVATION AND BACKFILLING, SHALL BE PAID FOR UNDER ITEM 604 -CATCH BASIN, NO. 3 MODIFIED.



SECTION B-B



SECTION B-B WITH CURB & GUTTER



SLAB DETAIL SECTION C-C

verdantas

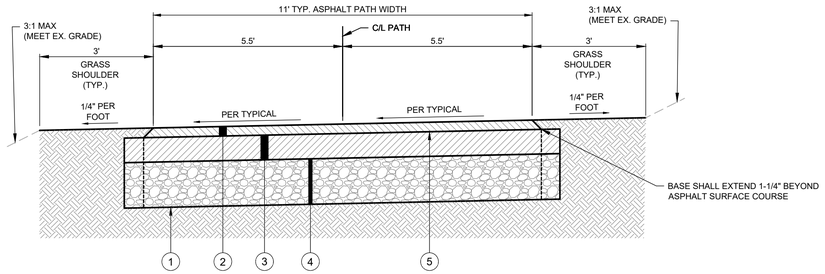
NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: AS NOTED
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

DETAILS 3

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME DET3
SHEET 7 OF 47



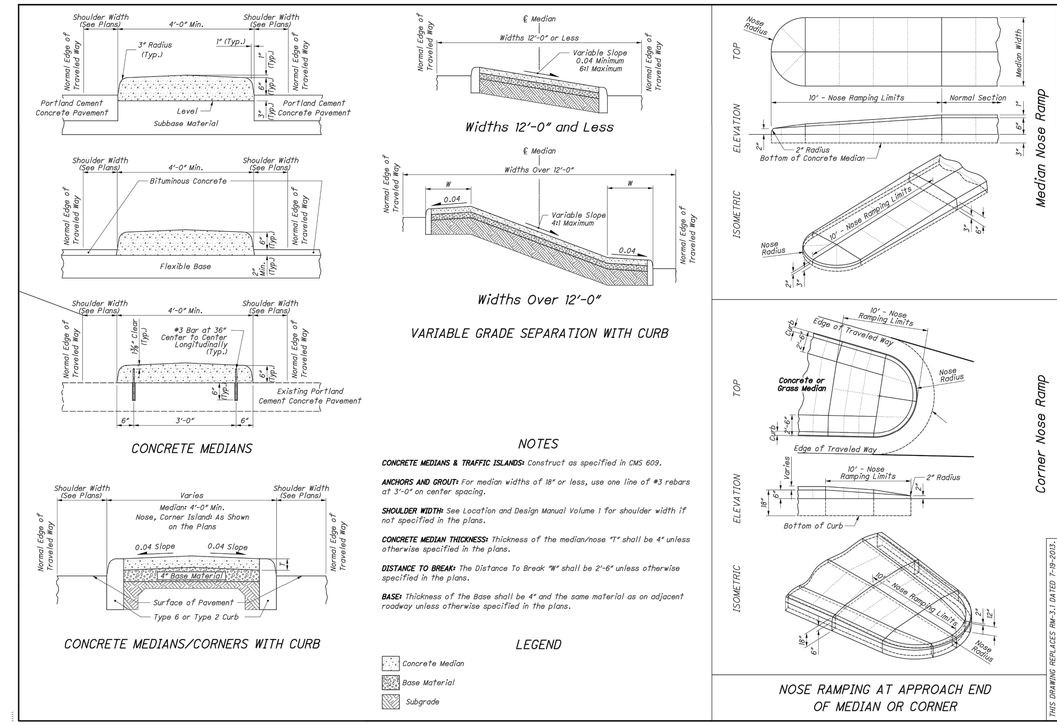
MULTI-USE PATH TYPICAL SECTION

NTS

LEGEND:

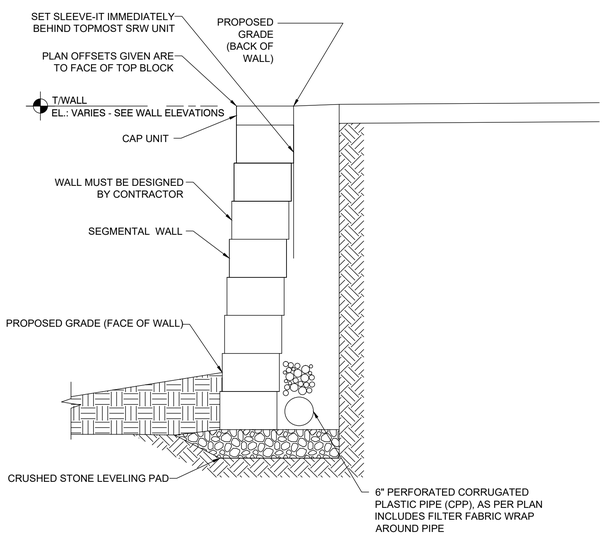
1	ITEM 204	REGRADE, SHAPE, & COMPACT EX. GROUND TO CREATE A LEVEL, UNIFORM SURFACE.
2	ITEM 441	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22
3	ITEM 442	3-1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2
4	ITEM 304	LIMESTONE AGGREGATE BASE (2 - 3" LIFTS)
5	ITEM 407	NON-TRACKING TACK COAT

NOTE: ALL CHANGES TO MULTI-USE PATH GEOMETRY SHALL INCORPORATE ROUNDED TRANSITIONS. HARD ANGLES ARE NOTE PERMITTED.



ITEM 609: CONCRETE MEDIAN

NTS



TYPICAL SEGMENTAL WALL SECTION

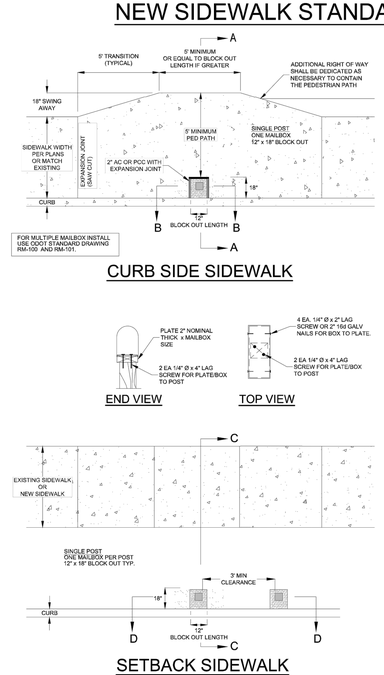
NTS

NOTES

ITEM SPECIAL - STRUCTURE, MISC.: MODULAR RETAINING WALL, EXTENSION 530E00600

SEE SPEC BOOK FOR INFORMATION. THIS IS AN ALL INCLUSIVE BID ITEM BASED ON SQUARE FOOTAGE (SF) OF EXPOSED MODULAR WALL.

NEW SIDEWALK STANDARD SINGLE MAILBOX



ITEM SPL: NEW MAILBOX & PLACEMENT

NTS

NOTES

THIS ITEM IS AN ALL INCLUSIVE COST TO REMOVE EXISTING MAILBOX AND PLACE NEW PER ABOVE DETAIL, AND SHALL BE PAID BE EACH (EA).

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

DETAILS 4

PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
DET4	
SHEET	OF
8	47

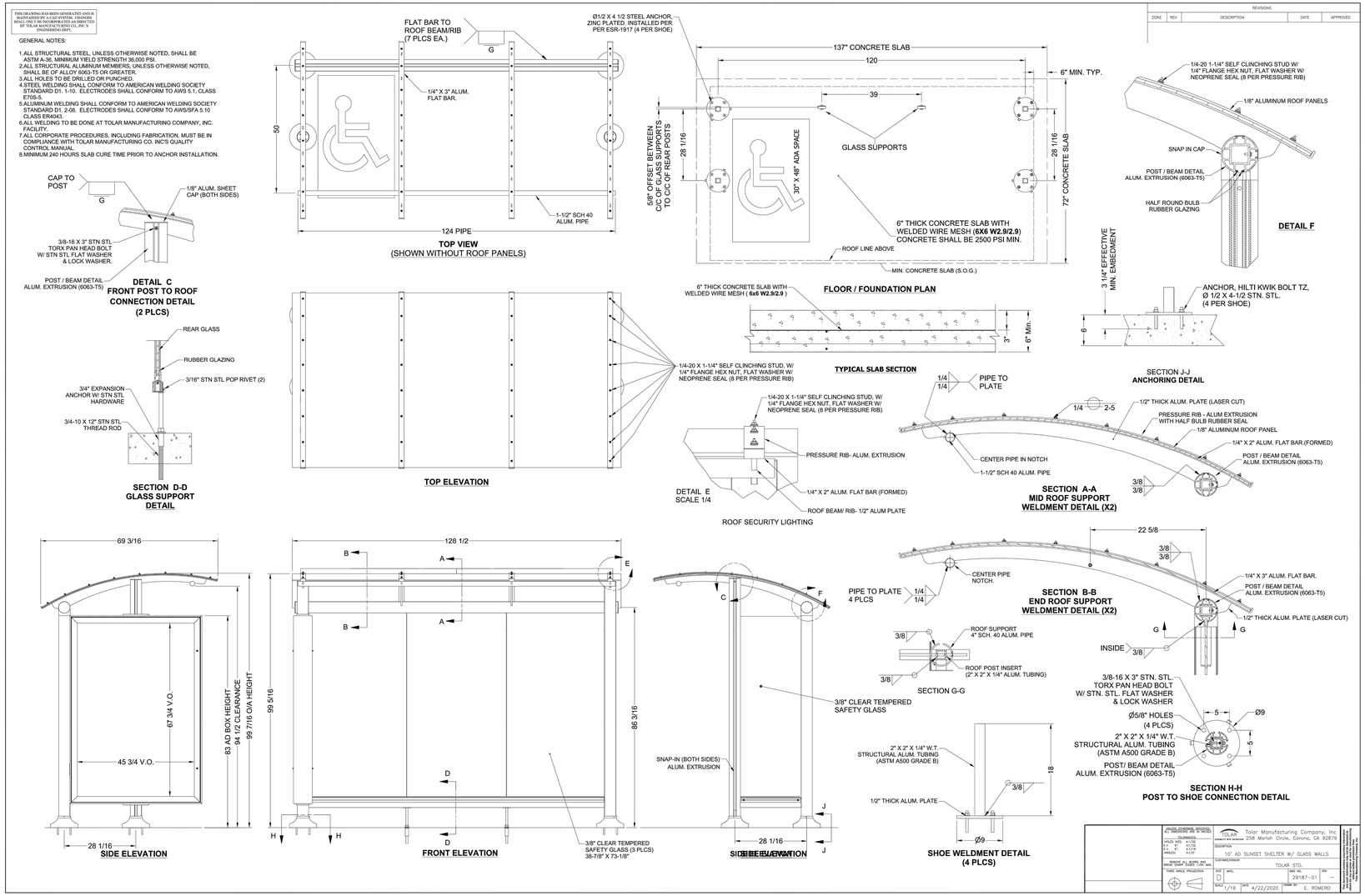
THIS DRAWING HAS BEEN GENERATED AND IS MAINTAINED BY A CAD SYSTEM. CHANGES SHALL NOT BE MADE EXCEPT BY THOSE DIRECTED BY TOLAR MANUFACTURING CO., INC'S ENGINEERING DEPT.

GENERAL NOTES:

1. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE ASTM A-36, MINIMUM YIELD STRENGTH 36,000 PSI.
2. ALL STRUCTURAL ALUMINUM MEMBERS, UNLESS OTHERWISE NOTED, SHALL BE OF ALLOY 6063-T5 OR GREATER.
3. ALL HOLES TO BE DRILLED OR PUNCHED.
4. STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 1-10. ELECTRODES SHALL CONFORM TO AWS 5.1, CLASS E70S-6.
5. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-08. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 CLASS ER4043.
6. ALL WELDING TO BE DONE AT TOLAR MANUFACTURING COMPANY, INC. FACILITY.
7. ALL CORPORATE PROCEDURES, INCLUDING FABRICATION, MUST BE IN COMPLIANCE WITH TOLAR MANUFACTURING CO. INC'S QUALITY CONTROL MANUAL.
8. MINIMUM 240 HOURS SLAB CURE TIME PRIOR TO ANCHOR INSTALLATION.

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL ±1/32
X ± .01 ±1/32
X ± .005 ±1/64
ANGULAR: ±1/2°

REMOVE ALL BURRS AND BREAK SHARP EDGES 1/64" MAX.

THIRD ANGLE PROJECTION

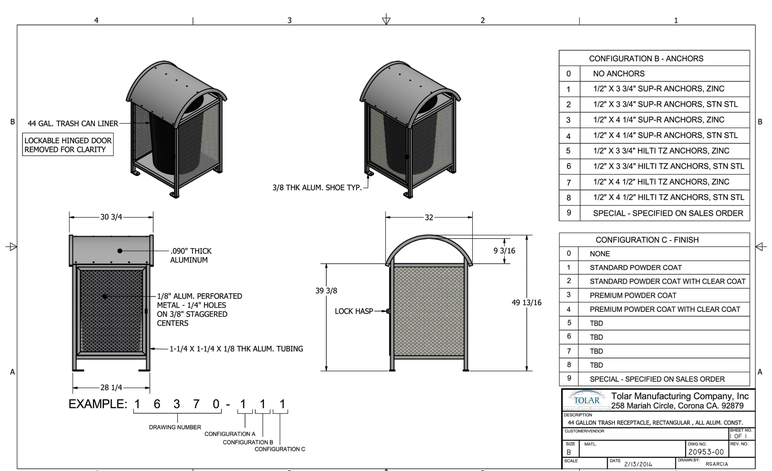
TOLAR Tolar Manufacturing Company, Inc
258 Mariah Circle, Corona, CA 92879

DESCRIPTION
10' AD SUNSET SHELTER W/ GLASS WALLS

CUSTOMER/VENDOR
TOLAR STD.

SIZE D | MATL. | DWG NO. 2918?-01 | REV –
SCALE 1/16 | DATE 4/22/2020 | DRAWN BY E. ROMERO

THE DESIGN AND DRAWINGS REMAIN THE INTELLECTUAL PROPERTY OF TOLAR MFG. AND ARE PROTECTED BY LAW. THEY MAY NOT BE ALTERED, REPRODUCED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT FROM TOLAR MFG. ALL DOCUMENTS TO BE RETURNED TO TOLAR MFG. AT COMPLETION OF WORK. CONTRACTOR TO SITE VERIFY ALL DETAILS AND DIMENSIONS PRIOR TO WORK AND ALL DISCREPANCIES TO TOLAR MFG. BEFORE COMMENCING WITH THAT RELATED PORTION OF THE WORK.



CONFIGURATION B - ANCHORS	
0	NO ANCHORS
1	1/2" X 3 3/4" SUP-R ANCHORS, ZINC
2	1/2" X 3 3/4" SUP-R ANCHORS, STN STL
3	1/2" X 4 1/4" SUP-R ANCHORS, ZINC
4	1/2" X 4 1/4" SUP-R ANCHORS, STN STL
5	1/2" X 3 3/4" HILTI TZ ANCHORS, ZINC
6	1/2" X 3 3/4" HILTI TZ ANCHORS, STN STL
7	1/2" X 4 1/2" HILTI TZ ANCHORS, ZINC
8	1/2" X 4 1/2" HILTI TZ ANCHORS, STN STL
9	SPECIAL - SPECIFIED ON SALES ORDER

CONFIGURATION C - FINISH	
0	NONE
1	STANDARD POWDER COAT
2	STANDARD POWDER COAT WITH CLEAR COAT
3	PREMIUM POWDER COAT
4	PREMIUM POWDER COAT WITH CLEAR COAT
5	TBD
6	TBD
7	TBD
8	TBD
9	SPECIAL - SPECIFIED ON SALES ORDER

TOLAR Tolar Manufacturing Company, Inc
258 Mariah Circle, Corona CA. 92879

DESCRIPTION: 44 GALLON TRASH RECEPTACLE, RECTANGULAR , ALL ALUM. CONST.
CUSTOMER/VENDOR | SHEET NO. OF 1
SIZE B | MATL. | DWG NO. 20953-00 | REV. NO.
SCALE | DATE 2/15/2014 | DRAWN BY: REJARCIA

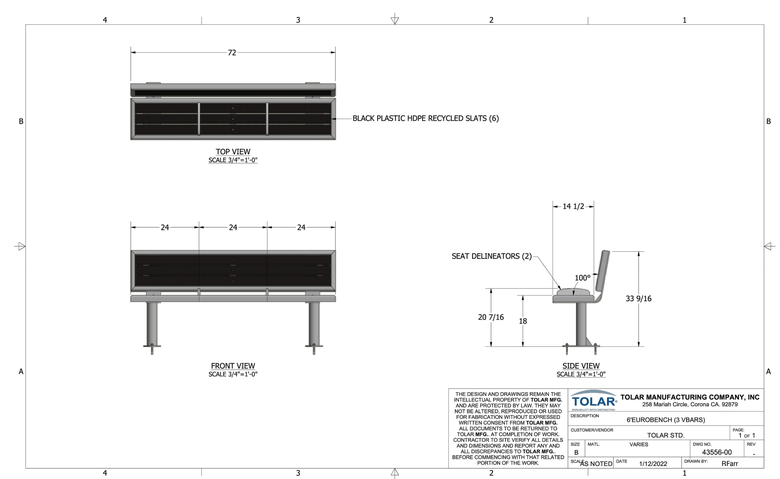
T:\Inventor\Trash Cans\20953-00.idw

ITEM 690: SPECIAL - REMOVE EXISTING BUS SHELTER, PROVIDE AND INSTALL NEW SHELTER

NTS

NOTES

THIS ITEM IS AN ALL INCLUSIVE COST TO REMOVE EXISTING BUS SHELTER AND INSTALL NEW PER DETAILS ON THIS SHEET, AND SPECIFICATIONS PROVIDED IN THE BID DOCUMENTS, AND SHALL BE PAID BE AS A LUMP SUM (LS).



THE DESIGN AND DRAWINGS REMAIN THE INTELLECTUAL PROPERTY OF TOLAR MFG. AND ARE PROTECTED BY LAW. THEY MAY NOT BE ALTERED, REPRODUCED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT FROM TOLAR MFG. ALL DOCUMENTS TO BE RETURNED TO TOLAR MFG. AT COMPLETION OF WORK. CONTRACTOR TO SITE VERIFY ALL DETAILS AND DIMENSIONS PRIOR TO WORK AND ALL DISCREPANCIES TO TOLAR MFG. BEFORE COMMENCING WITH THAT RELATED PORTION OF THE WORK.

TOLAR TOLAR MANUFACTURING COMPANY, INC
258 Mariah Circle, Corona CA. 92879

DESCRIPTION: 6'EUROBENCH (3 VBARS)
CUSTOMER/VENDOR: TOLAR STD. | PAGE 1 or 1
SIZE B | MATL. VARIES | DWG NO. 43556-00 | REV -
SCALE AS NOTED | DATE 1/12/2022 | DRAWN BY: RFarr

T:\Inventor\Benches\43556-00.idw

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

DETAILS 5

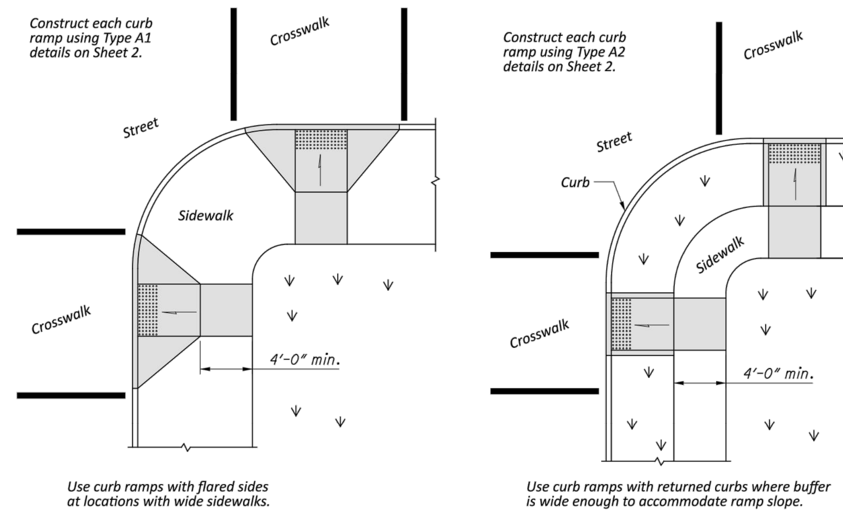
PROJECT NO. 242429

DISCIPLINE: CIVIL

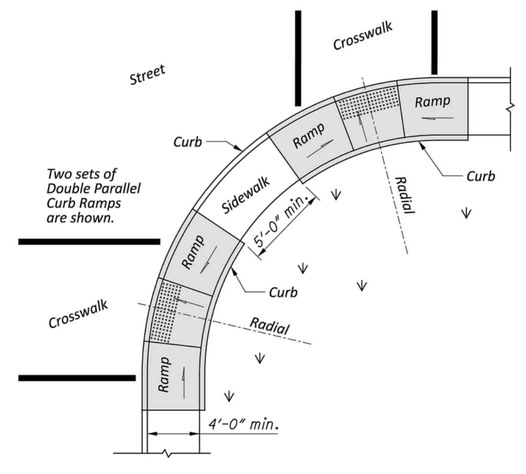
SHEET NAME: DET5

SHEET 9 OF 47

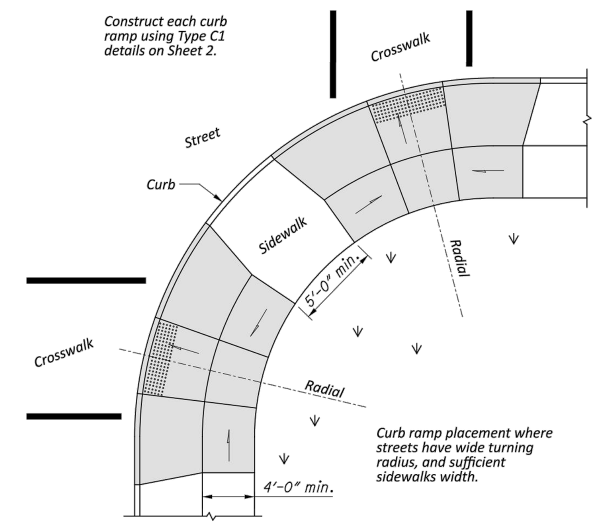
PREFERRED CONSTRUCTION PLACEMENT



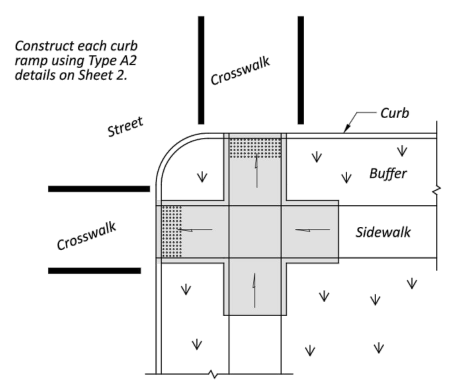
PERPENDICULAR CURB RAMPS



PARALLEL CURB RAMPS



COMBINATION CURB RAMPS



NOTES

GENERAL: This drawing shows curb ramp types details and placement examples for curb ramp construction, including the installation of detectable warnings.

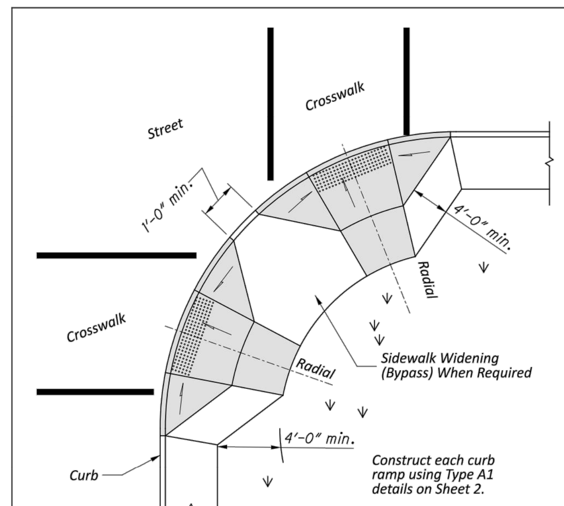
Curb ramp types are shown on Sheet 2 and include Perpendicular, Parallel, and Combined types as specified to be constructed in the locations shown on the project plans.

Curb ramps added to an existing intersection or walk should be individually detailed on the project plans to assure that the design is appropriate for site constraints and all items can be constructed to ADA standards. The contractor may adjust the placement of curb ramps if existing field conditions warrant with the approval of the Engineer.

PAYMENT: Measure and pay for the ramp area within the shaded limits of this drawing as Item 608 Curb Ramp, Square Foot. This includes the cost of any curb or curb and gutter, detectable warnings, landing areas and any additional materials, installation, grading, forming, and finishing required within the shaded area.

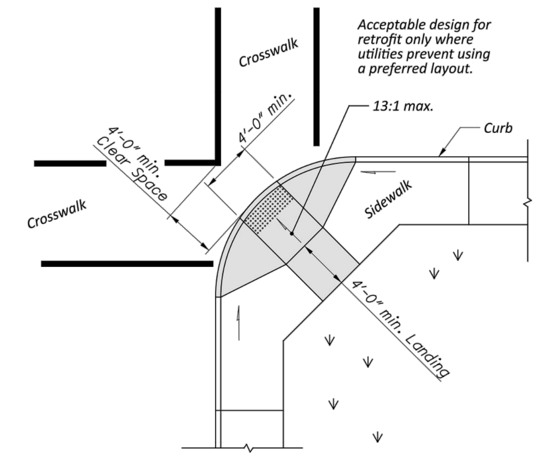
Work beyond the shaded ramp/landing area is paid for as curb (609) and walk (608). Removal of existing curb, walk (or existing curb ramps) are paid under Item 202.

For at-grade crossing locations where only detectable warnings are required in order to acheive ADA compliance, measure and pay for the strip of detectable warnings as Item 608 Detectable Warning, Square Foot. The work to cast the tiles in place will also require removal of existing pavement (Item 202) to the nearest joint, or if no joint exists, a minimum of 4 feet.



Acceptable design on corners with wide turning radius where user is able to maneuver within crosswalk limits so as not to encroach into adjacent traveled lanes.

PERPENDICULAR RAMPS



Use this design only for existing walks, and when site constraints prohibit other designs. The diagonal Type D ramp may be constructed as either a Perpendicular, Parallel or Combination curb ramp type. Avoid using where curb radii are less than 20'-0".

DIAGONAL RAMP (Type D)

ACCEPTABLE CONSTRUCTION PLACEMENT

BP-7.1

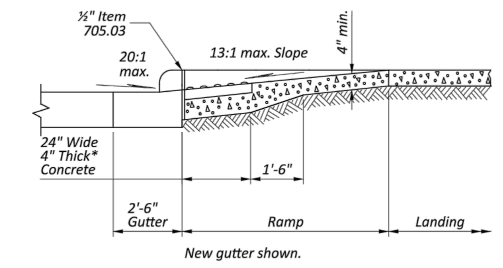
MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/6/2024 TIME: 12:28:15 PM USER: ahollow1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\PIS_SCD\Roadway\Working Folder\2024\07_July\BP-7.1_2024-01-19.dgn

THIS DRAWING REPLACES BP-7.1 DATED 07-21-2023.

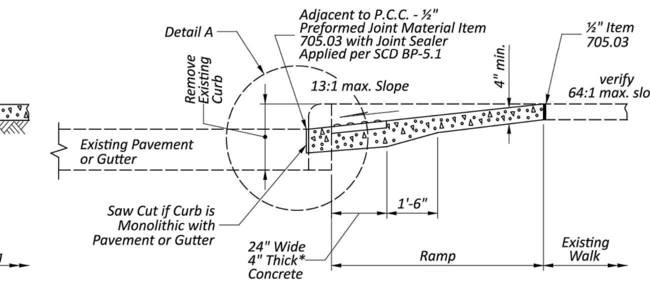
OFFICE OF ROADWAY ENGINEERING | REVISIONS: 01-21-2022, 01-20-2023, 07-21-2023, 01-19-2024, 07-19-2024 | STDS ENGINEER: D. Fisher | STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR: Adam Koenig

STANDARD ROADWAY CONSTRUCTION DRAWING
NEW CURB RAMPS
(with Detectable Warnings)

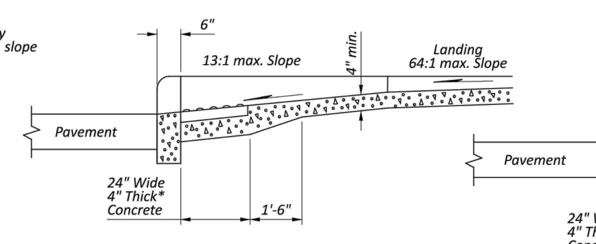
DESIGN AGENCY | SCD NUMBER: BP-7.1 | SHEET: P.1 | TOTAL: 4



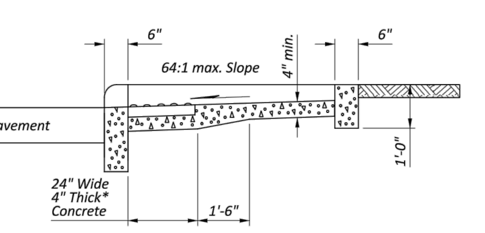
SECTION A-A
NORMAL DETAIL
See Sheet 2.



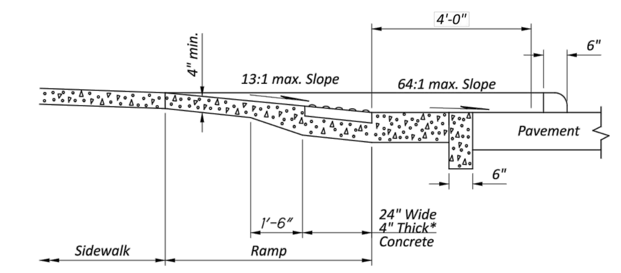
SECTION A-A
EXISTING WALK DETAIL
See Sheet 2.



SECTION B-B
See Sheet 2.

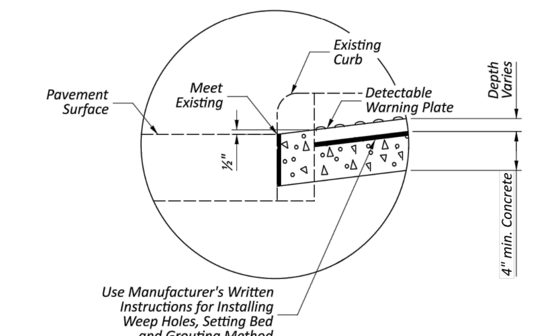


SECTION C-C
See Sheet 2.

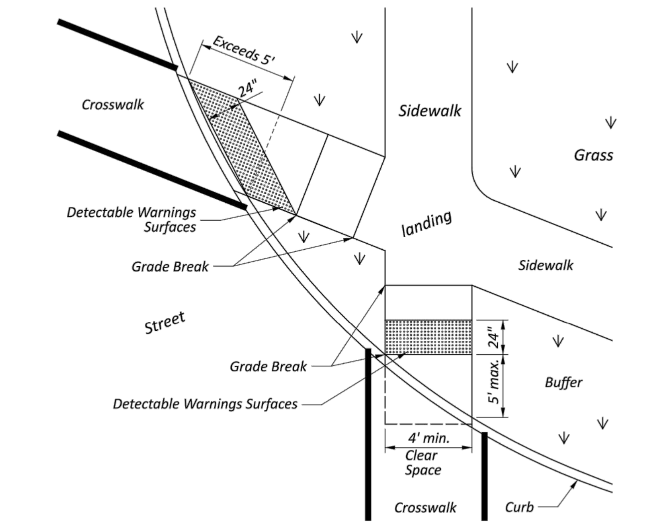


SECTION D-D
See Sheet 2.

*Where possible, pour ramp area integral with the curb, otherwise use 6" thick walk.



DETAIL A



DETECTABLE WARNING ALIGNMENT
FOR DIRECTIONAL CURB RAMPS

DETECTABLE WARNINGS NOTES

GENERAL: Detectable Warnings are a distinctive surface pattern of truncated domes which are detectable by cane or underfoot to alert people with vision impairments of their approach to streets and hazardous drop-offs.

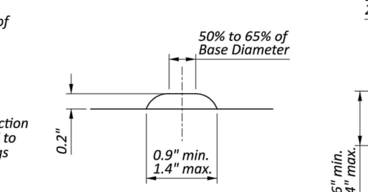
PLACEMENT: Detectable warnings are to be installed at any location where pedestrians might cross paths with vehicular traffic lanes, such as the base of curb ramps or at blended curbs. A 24" strip of domes is to be installed for the full width of the ramp or walk. Typical street corner placement locations are shown on Sheet 1.

Some detectable warning products require a concrete border for proper installation. The concrete border should not exceed 2". Where the back of curb edge is tooled to provide a radius, the border dimension should be measured from the end of the radius.

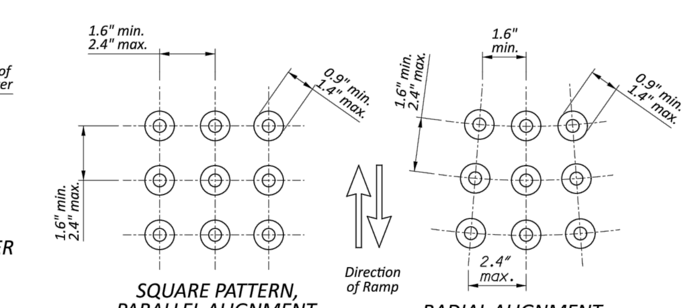
The depth of concrete underneath detectable warning products shall be a minimum of 4". See DETAIL A.

ALIGNMENT: Truncated domes should be aligned with the primary direction of the ramp as shown on the DETECTABLE WARNING ALIGNMENT Detail to direct pedestrians toward the landing. Normally the detectable warnings should be flush with the back of the curb, but for skewed conditions see DETECTABLE WARNING ALIGNMENT Detail. For non-standard layouts, detectable warning materials may have to be mitered and placed segmentally.

PRODUCTS & COLORS: Color of the detectable warnings should contrast with surrounding concrete walk and ramp. Black is not an acceptable color. Approved products and guidance on color may be found on the Office of Roadway Engineering Service's Detectable Warnings Approved List. Install products as per manufacturer's printed instructions.



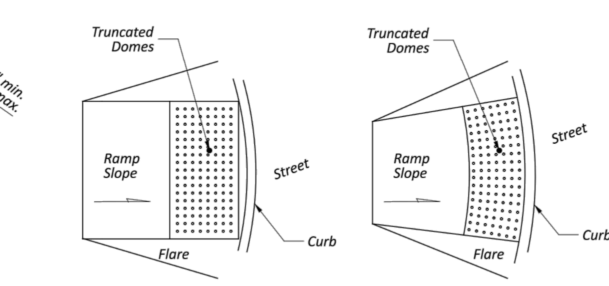
HEIGHT AND DIAMETER



SQUARE PATTERN, PARALLEL ALIGNMENT

RADIAL ALIGNMENT

TRUNCATED DOMES DETAILS



DOME ALIGNMENT ON RADIUSED CURB

BP-7.1

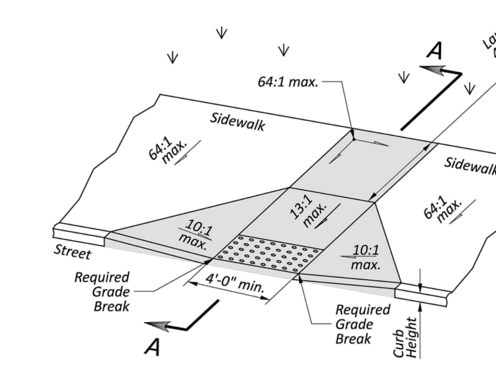
MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/6/2024 TIME: 12:34:19 PM USER: ahollow1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\PIS_SCD\Roadway\Working Folder\2024\07_July\BP-7.1_2024-01-19.dgn

THIS DRAWING REPLACES BP-7.1 DATED 07-21-2023.

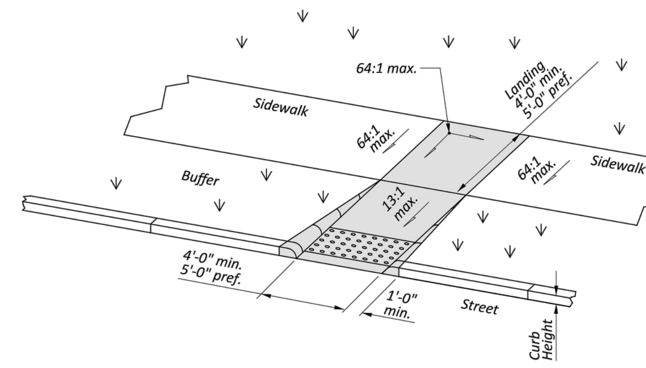
OFFICE OF ROADWAY ENGINEERING | REVISIONS: 01-21-2022, 01-20-2023, 07-21-2023, 01-19-2024, 07-19-2024 | STDS ENGINEER: D. Fisher | STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR: Adam Koenig

STANDARD ROADWAY CONSTRUCTION DRAWING
NEW CURB RAMPS
(with Detectable Warnings)

DESIGN AGENCY | SCD NUMBER: BP-7.1 | SHEET: P.3 | TOTAL: 4

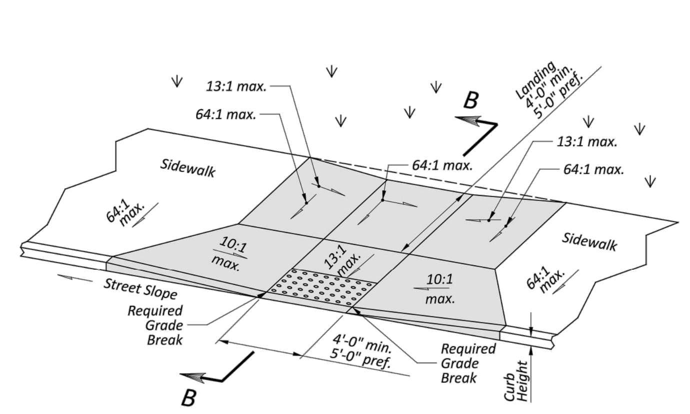


Type A1 (Perpendicular with flared sides)

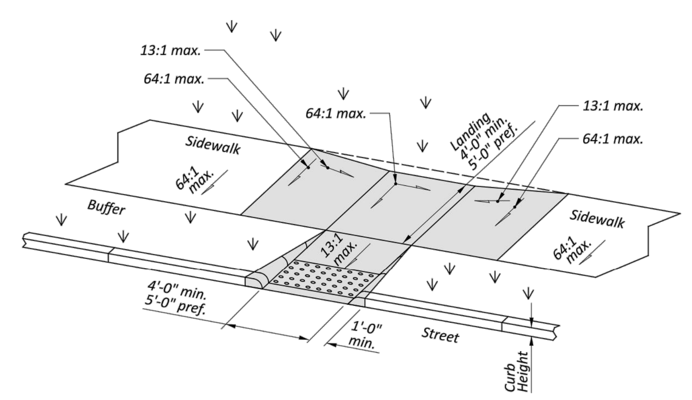


Type A2 (Perpendicular with returned curb)

PERPENDICULAR CURB RAMP DETAILS

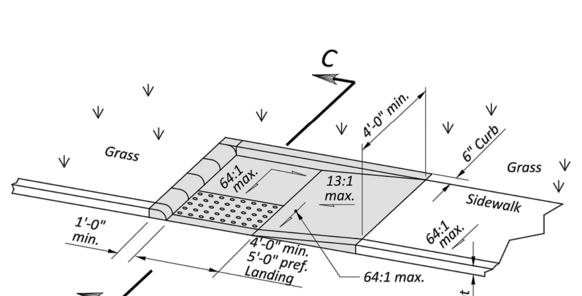


Type C1 (Combined with flared sides)

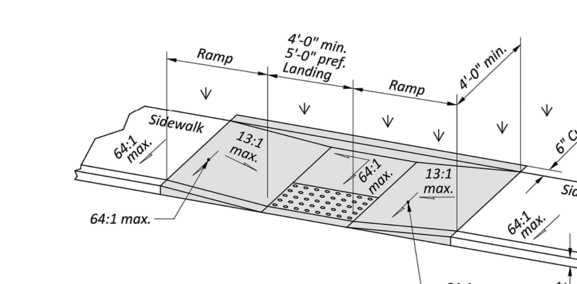


Type C2 (Combined with returned curb)

COMBINED CURB RAMP DETAILS



Type B1 (Single sided Parallel)



Type B2 (Double sided Parallel)

PARALLEL CURB RAMP DETAILS

NOTES CONTINUED

The running slope of the curb ramp shall be a 13:1 maximum or flatter. In existing sidewalks, where the maximum ramp slope is not feasible due to site constraints (e.g. utility poles or vaults, right-of-way limits) it may be reduced as follows:

A) 10:1 for a max. rise of 6",
B) 8:1 for a max. rise of 3",
C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.

To prevent chasing the grade indefinitely, the transition from existing sidewalk to the shaded curb ramp area is not required to exceed 15 feet in length.

While ramps may be skewed to the crosswalk, the entire lower landing area must fall within the cross walk that the ramp serves and cannot be located in the traveled lane of opposing traffic.

The counter slope of the gutter or street at the foot of a curb ramp, landing, or blended transitions shall be 20:1 or flatter.

The bottom edge of the ramp shall change planes perpendicular to the landing.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

Ramp landings shall be 4' min. x 4' min. with a 64:1 or flatter cross slope and running slope.

Provide 24" wide level strip if the algebraic difference between the ramp slope and the street exceeds 11%.

DETECTABLE WARNINGS: Install Detectable Warnings on each curb ramp with approved materials, as shown on Sheet 3. Install these proprietary products as per manufacturer's written instructions.

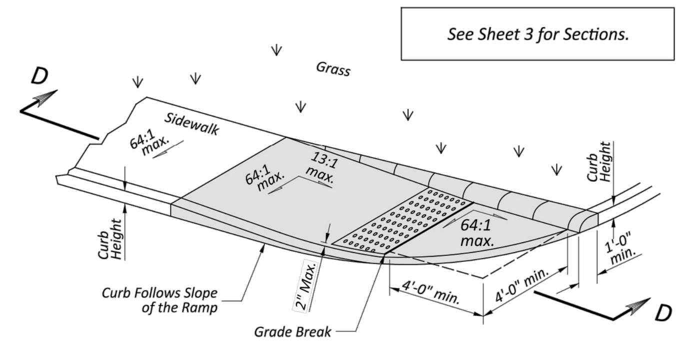
BLENDED TRANSITIONS: Blended Transititons do not require a landing since the slopes shall not exceeed 5%.

DRAINAGE: Contractor is to ensure the base of each constructed curb ramp allows for proper drainage, without exceeding allowable cross slope or ramp slopes. Vertical change in level exceeding ⅛" between the 1) pavement and gutter, and 2) gutter and ramp, are not allowed.

SURFACE TEXTURE: Texture concrete surfaces by coarse brooming transverse to the ramp slopes to be rougher than the adjacent walk.

JOINTS: Provide expansion joints in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. Provide a ½" Item 705.03 expansion joint filler around the edge of ramps built in existing concrete walks. Lines shown on this drawing indicate the ramp edges and slope changes, and do not necessarily indicate joint lines.

See Sheet 3 for Sections.



Type B3 (Single sided Parallel)

BP-7.1

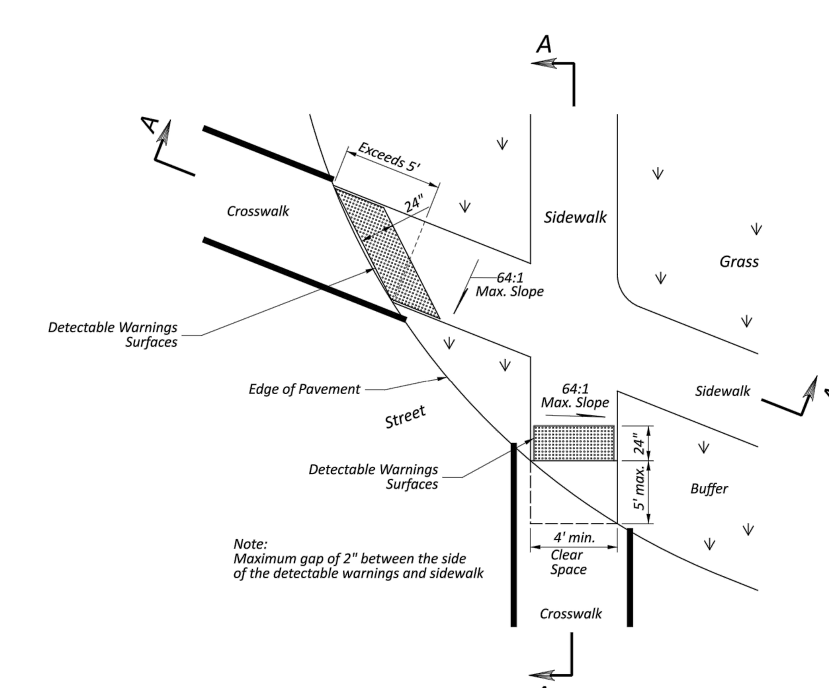
MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/6/2024 TIME: 12:29:14 PM USER: ahollow1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\PIS_SCD\Roadway\Working Folder\2024\07_July\BP-7.1_2024-01-19.dgn

THIS DRAWING REPLACES BP-7.1 DATED 07-21-2023.

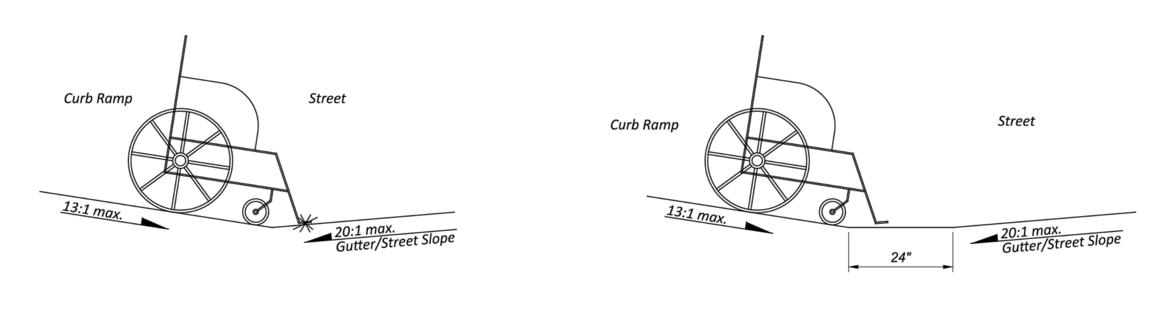
OFFICE OF ROADWAY ENGINEERING | REVISIONS: 01-21-2022, 01-20-2023, 07-21-2023, 01-19-2024, 07-19-2024 | STDS ENGINEER: D. Fisher | STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR: Adam Koenig

STANDARD ROADWAY CONSTRUCTION DRAWING
NEW CURB RAMPS
(with Detectable Warnings)

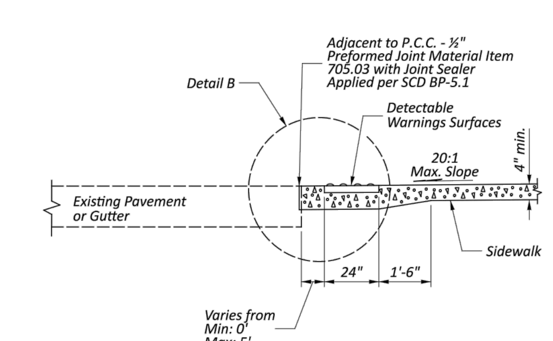
DESIGN AGENCY | SCD NUMBER: BP-7.1 | SHEET: P.2 | TOTAL: 4



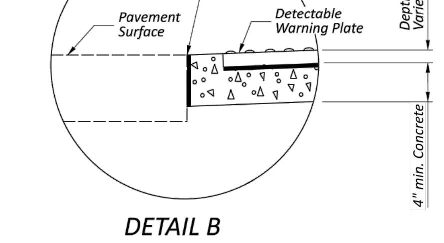
BLENDED TRANSITION



ALGEBRAIC GRADE DIFFERENCE DETAIL



SECTION A-A



DETAIL B

BP-7.1

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 6/6/2024 TIME: 12:34:08 PM USER: ahollow1
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\03 Standards\PIS_SCD\Roadway\Working Folder\2024\07_July\BP-7.1_2024-01-19.dgn

THIS DRAWING REPLACES BP-7.1 DATED 07-21-2023.

OFFICE OF ROADWAY ENGINEERING | REVISIONS: 01-21-2022, 01-20-2023, 07-21-2023, 01-19-2024, 07-19-2024 | STDS ENGINEER: D. Fisher | STATE OF OHIO OFFICE OF ROADWAY ENGINEERING ADMINISTRATOR: Adam Koenig

STANDARD ROADWAY CONSTRUCTION DRAWING
NEW CURB RAMPS
(with Detectable Warnings)

DESIGN AGENCY | SCD NUMBER: BP-7.1 | SHEET: P.4 | TOTAL: 4

---

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	AS NOTED
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

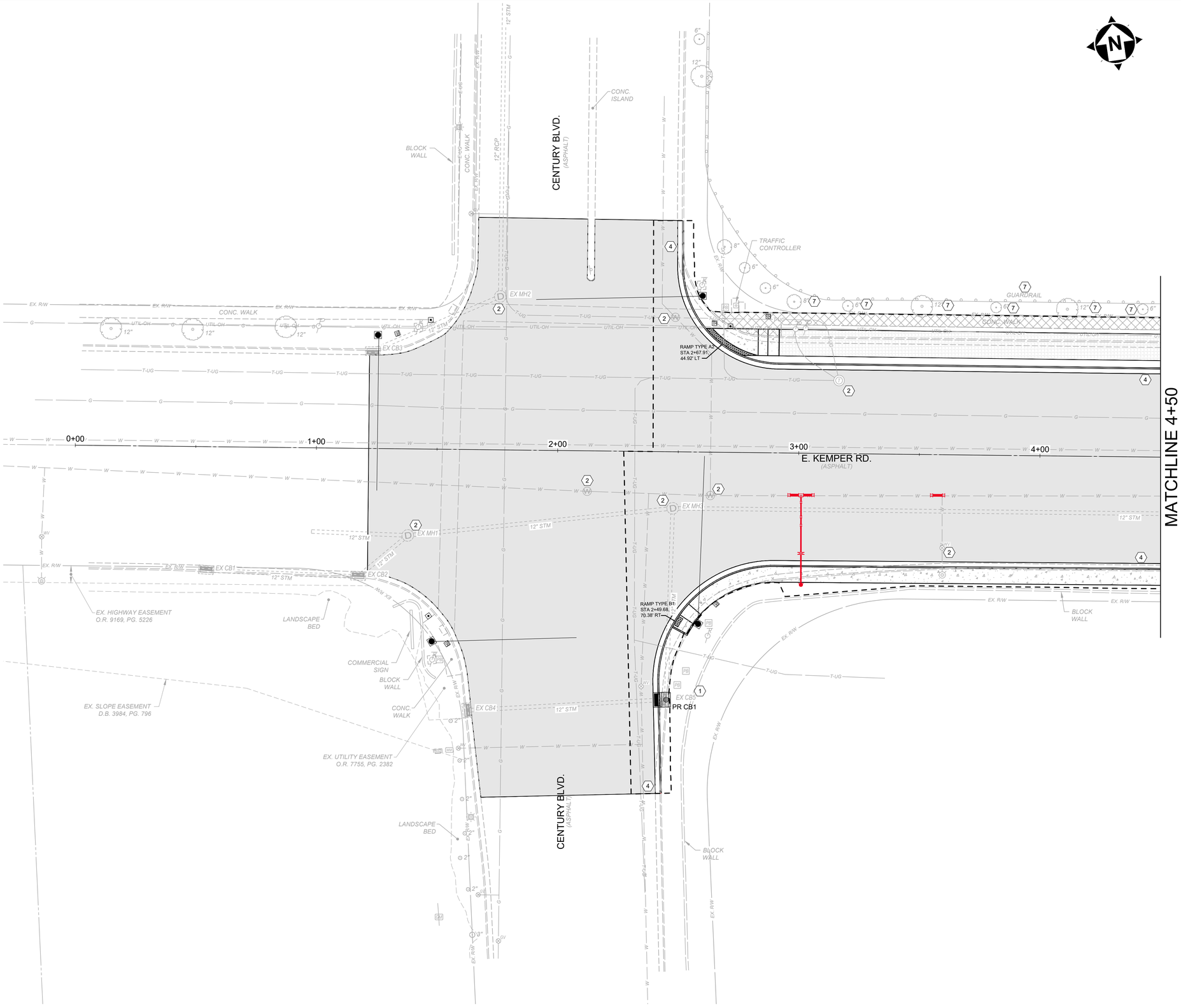
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

DETAILS 6

PROJECT NO. **242429**

DISCIPLINE **CIVIL**

SHEET NAME **DET6**



LEGEND & KEYNOTES

- 3" PAVEMENT PLANNING AND OVERLAY - SEE TYPICAL SECTION, SHEET 2
- ASPHALT SHARED USE PATH
- ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, AS PER PLAN
- * NON-REINFORCED CONCRETE PAVEMENT, MISC.: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL & REPLACEMENT., AS PER PLAN
- SIDEWALK REMOVED
- 5" CONCRETE SIDEWALK
- 5" CONCRETE WALK REMOVE & REPLACE
- 11" CONCRETE BUS PAD, SEE DETAIL
- DETECTABLE WARNINGS
- GRADING LIMITS
- TEMPORARY EASEMENT
- PR WATER (SEE GCWW PLANS)

1. EXISTING TO BE REMOVED
2. ADJUST TO GRADE
3. TO BE RELOCATED (BY OTHERS)
4. COMBINATION CURB AND GUTTER, TYPE 2, APP
5. CURB, TYPE 7, AS PER PLAN
6. CURB, TYPE 6
7. DO NOT DISTURB
8. MODULAR RETAINING WALL
9. CONVERT EX CB TO MH, SEE SHEET 6
10. DRAINAGE STRUCTURE, MISC.: CONVERT EX. DB OUTLET STRUCTURE TO MH AND ADD PR. DETENTION BASIN OUTLET STRUCTURE (CB2-4)
11. CURB SHALL BE REPLACED TO MATCH EX WHERE SIDEWALK IS BEING REMOVED AND ALSO ALONG NEW DRIVE APRON TO MATCH EXISTING ENTRANCE. COST FOR SAID WORK SHALL BE INCIDENTAL TO THE CONTRACT
12. ITEM 625 PULL BOX, 725.08 24" & CONDUIT, 2", 725.051. -PROVIDE AND INSTALL NEW SERVICE METER AND REQUIRED WIRING. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 625.
13. ITEM SPECIAL - REMOVE EXISTING BUS SHELTER, PROVIDE AND INSTALL NEW SHELTER
14. ITEM 609 CONCRETE MEDIAN
15. CONNECT 6" CPP TO UNDERDRAIN

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
EX CB1, ODOT CB-3 STA. 0+54.78, 51.3' R	T/G = 710.39 INV 12" (E) = 707.16
EX CB2, ODOT CB-3 STA. 1+17.89, 53.2' R	T/G = 710.18 INV 12" (W) = 706.85 INV 12" (NE) = 706.68
EX CB3, ODOT CB-3 STA. 1+22.96, -40.7' L	T/G = 708.88 INV 12" (E) = 705.98
EX CB4, ODOT CB-3 STA. 1+63.30, 108.2' R	T/G = 713.61 INV 12" (E) = 711.16
EX CB5, ODOT CB-3 STA. 2+46.17, 102.8' R	T/G = 713.08 INV 12" (W) = 710.48 INV 12" (N) = 710.08
EX MH1, ODOT MH-3 STA. 1+38.27, 35.9' R	T/G = 709.96 INV 12" (SW) = 705.82 INV 12" (W) = 705.82 INV 12" (E) = 705.82
EX MH2, ODOT MH-3 STA. 1+75.53, -63.6' L	T/G = 706.61 INV 12" (W) = 702.82 INV 12" (N) = 702.82
EX MH3, ODOT MH-3 STA. 2+47.98, 23.4' R	T/G = 706.68 INV 12" (S) = 701.40 INV 12" (W) = 701.40 INV 12" (E) = 701.40
PR CB1, ODOT CB-3, MOD. STA. 2+42.78, 102.97' RT	T/G = 713.17 INV 12" (W) = 710.50 INV 12" (N) = 710.08

verdantas

NO	REVISION	DATE

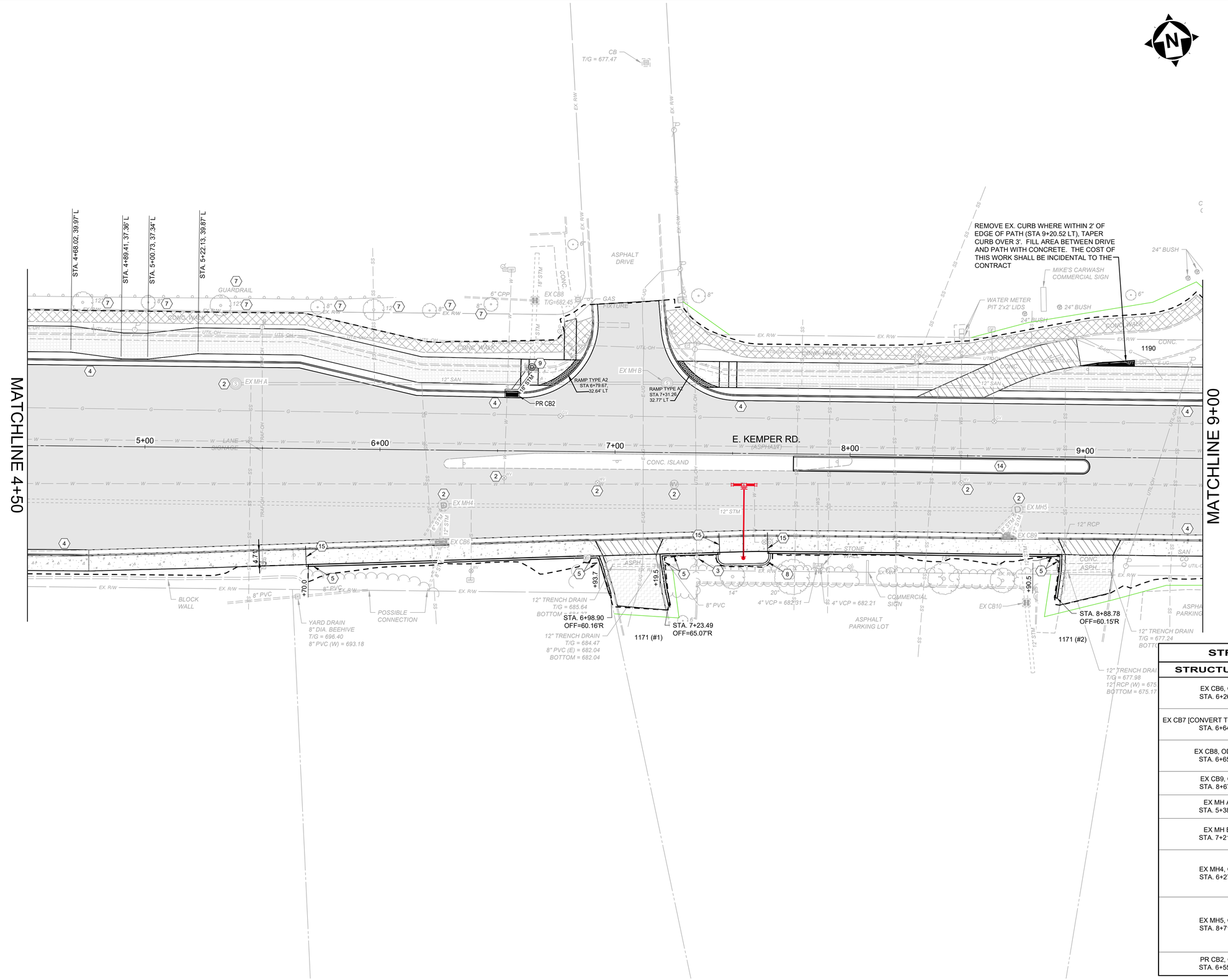
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: 1"=20'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

PLAN

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME PL1
SHEET 11 OF 47



LEGEND & KEYNOTES

- 3" PAVEMENT PLANNING AND OVERLAY - SEE TYPICAL SECTION, SHEET 2
- ASPHALT SHARED USE PATH
- ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, AS PER PLAN
- * NON-REINFORCED CONCRETE PAVEMENT, MISC.: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL & REPLACEMENT., AS PER PLAN
- SIDEWALK REMOVED
- 5" CONCRETE SIDEWALK
- 5" CONCRETE WALK REMOVE & REPLACE
- 11" CONCRETE BUS PAD, SEE DETAIL
- DETECTABLE WARNINGS
- GRADING LIMITS
- TEMPORARY EASEMENT
- PR WATER (SEE GCWW PLANS)

1. EXISTING TO BE REMOVED
2. ADJUST TO GRADE
3. TO BE RELOCATED (BY OTHERS)
4. COMBINATION CURB AND GUTTER, TYPE 2, APP
5. CURB, TYPE 7, AS PER PLAN
6. CURB, TYPE 6
7. DO NOT DISTURB
8. MODULAR RETAINING WALL
9. CONVERT EX CB TO MH, SEE SHEET 6
10. DRAINAGE STRUCTURE, MISC.: CONVERT EX. DB OUTLET STRUCTURE TO MH AND ADD PR. DETENTION BASIN OUTLET STRUCTURE (CB2-4)
11. CURB SHALL BE REPLACED TO MATCH EX WHERE SIDEWALK IS BEING REMOVED AND ALSO ALONG NEW DRIVE APRON TO MATCH EXISTING ENTRANCE. COST FOR SAID WORK SHALL BE INCIDENTAL TO THE CONTRACT
12. ITEM 625 PULL BOX, 725.08 24" & CONDUIT, 2", 725.051. -PROVIDE AND INSTALL NEW SERVICE METER AND REQUIRED WIRING. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 625.
13. ITEM SPECIAL - REMOVE EXISTING BUS SHELTER, PROVIDE AND INSTALL NEW SHELTER
14. ITEM 609 CONCRETE MEDIAN
15. CONNECT 6" CPP TO UNDERDRAIN

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
EX CB6, ODOT CB-3 STA. 6+26.42, 40.0' R	T/G = 687.42 INV 8" (SW) = 685.32 INV 12" (N) = 684.17
EX CB7 [CONVERT TO PR MH1], ODOT CB-3 STA. 6+64.19, -35.8' L	T/G = 685.22 INV 18" (SW) = 681.97 INV 18" (N) = 681.97
EX CB8, ODOT CB 2-2-B STA. 6+65.25, -64.1' L	T/G = 682.45 INV 18" (S) = 678.35 INV 18" (N) = 678.25
EX CB9, ODOT CB-3 STA. 8+67.70, 34.6' R	T/G = 677.46 INV 12" (NE) = 674.06
EX MH A, SAN MH STA. 5+38.32, -27.3' L	T/G = 691.98 INV 12" (E) = 677.37
EX MH B, SAN MH STA. 7+21.80, -29.5' L	T/G = 683.10 INV 12" (W) = 668.46 INV 12" (E) = 668.46
EX MH4, ODOT MH-3 STA. 6+27.25, 23.5' R	T/G = 687.94 INV 12" (W) = 683.09 INV 6" (SW) = 683.28 INV 12" (S) = 683.85 INV 12" (E) = 683.09
EX MH5, ODOT MH-3 STA. 8+71.40, 22.6' R	T/G = 677.83 INV 12" (S) = 673.92 INV 12" (SW) = 673.50 INV 8" (SW) = 672.73 INV 12" (W) = 672.76 INV 18" (E) = 672.16
PR CB2, ODOT CB-3 STA. 6+55.94, -24.7' L	T/G = 686.27 INV 18" (NE) = 683.27

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

PLAN

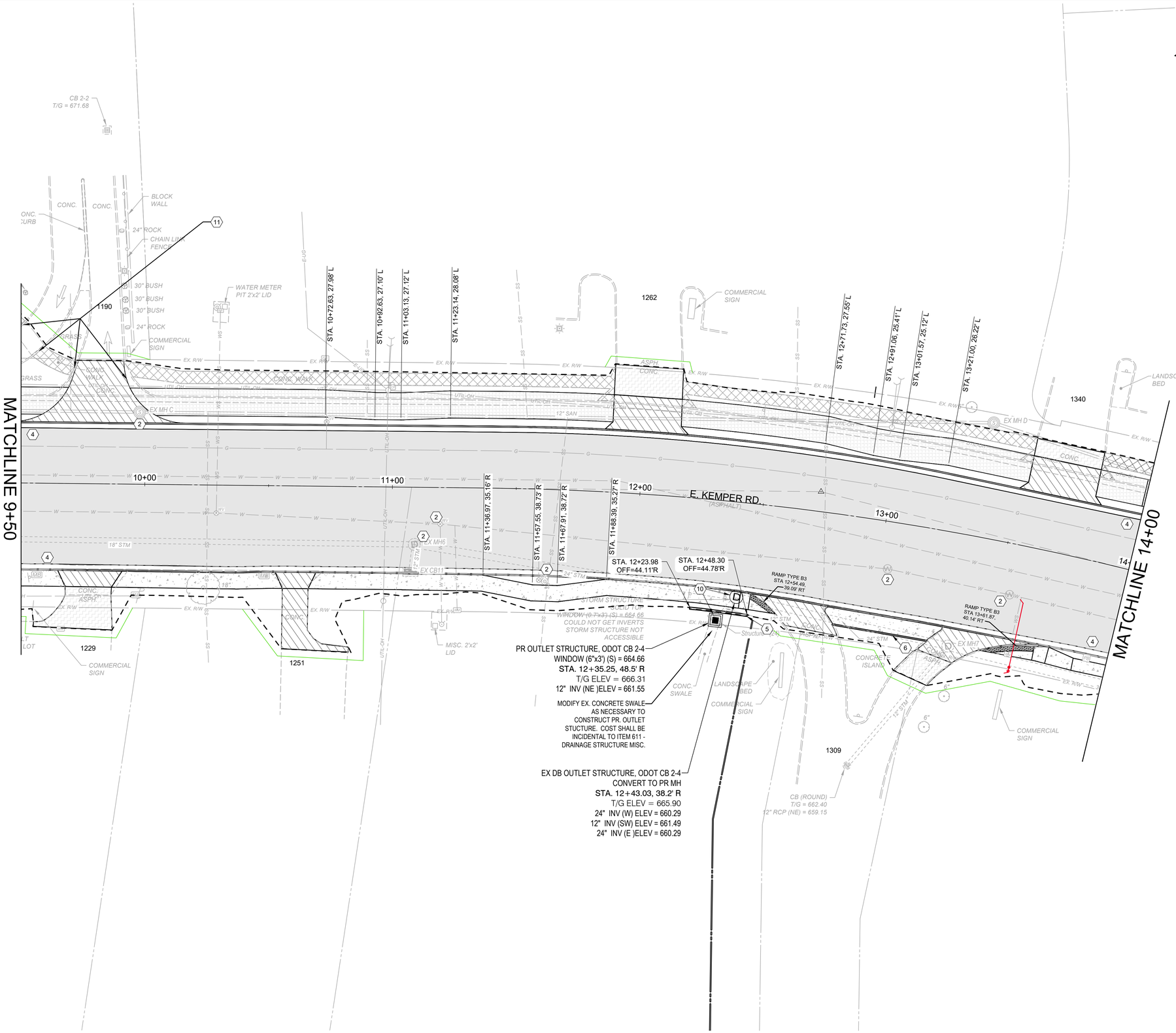
PROJECT NO. 242429

DISCIPLINE CIVIL

SHEET NAME PL2

SHEET 12 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - PLAN.DWG - PL2 - 2/4/2026 12:09:47 PM - PATRICK MADL



LEGEND & KEYNOTES

- 3" PAVEMENT PLANNING AND OVERLAY - SEE TYPICAL SECTION, SHEET 2
- ASPHALT SHARED USE PATH
- ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, AS PER PLAN
- * NON-REINFORCED CONCRETE PAVEMENT, MISC.: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL & REPLACEMENT., AS PER PLAN
- SIDEWALK REMOVED
- 5" CONCRETE SIDEWALK
- 5" CONCRETE WALK REMOVE & REPLACE
- 11" CONCRETE BUS PAD, SEE DETAIL
- DETECTABLE WARNINGS
- GRADING LIMITS
- TEMPORARY EASEMENT
- PR WATER (SEE GCWW PLANS)

1. EXISTING TO BE REMOVED
2. ADJUST TO GRADE
3. TO BE RELOCATED (BY OTHERS)
4. COMBINATION CURB AND GUTTER, TYPE 2, APP
5. CURB, TYPE 7, AS PER PLAN
6. CURB, TYPE 6
7. DO NOT DISTURB
8. MODULAR RETAINING WALL
9. CONVERT EX CB TO MH, SEE SHEET 6
10. DRAINAGE STRUCTURE, MISC.: CONVERT EX. DB OUTLET STRUCTURE TO MH AND ADD PR. DETENTION BASIN OUTLET STRUCTURE (CB2-4)
11. CURB SHALL BE REPLACED TO MATCH EX WHERE SIDEWALK IS BEING REMOVED AND ALSO ALONG NEW DRIVE APRON TO MATCH EXISTING ENTRANCE. COST FOR SAID WORK SHALL BE INCIDENTAL TO THE CONTRACT
12. ITEM 625 PULL BOX, 725.08 24" & CONDUIT, 2", 725.051. -PROVIDE AND INSTALL NEW SERVICE METER AND REQUIRED WIRING. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 625.
13. ITEM SPECIAL - REMOVE EXISTING BUS SHELTER, PROVIDE AND INSTALL NEW SHELTER
14. ITEM 609 CONCRETE MEDIAN
15. CONNECT 6" CPP TO UNDERDRAIN

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
EX CB11, ODOT CB-3 STA. 11+07.63, 34.5' R	T/G = 669.30 INV 12" (N) = 665.64
EX DB OUTLET STRUCTURE, ODOT CB 2-4 STA. 12+43.03, 38.2' R	T/G = 665.90 INV 24" (W) = 660.29 INV 12" (SW) = 661.49 INV 24" (E) = 660.29
EX MH C, SAN MH STA. 9+97.62, -29.1' L	T/G = 673.55 INV 12" (W) = 662.87 INV 12" (E) = 662.87
EX MH D, SAN MH STA. 13+35.51, -46.4' L	T/G = 661.93 INV 12" (W) = 637.73 INV 12" (SE) = 637.73
EX MH6, ODOT MH-3 STA. 11+09.06, 23.1' R	T/G = 669.84 INV 12" (S) = 665.35 INV 18" (W) = 664.35 INV 24" (E) = 664.35
EX MH7, ODOT MH-3 STA. 13+33.79, 45.7' R	T/G = 662.38 INV 24" (W) = 657.60 INV 12" (SW) = 658.03 INV 30" (E) = 657.38
PR OUTLET STRUCTURE, ODOT CB 2-4 WINDOW (6"x3') (S) = 664.66 STA. 12+35.25, 48.5' R	T/G = 666.31 INV 12" (NE) = 661.55
Structure - (24), ODOT HW-1 STA. 12+35.25, 48.5' R	T/G = 663.30

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRNG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

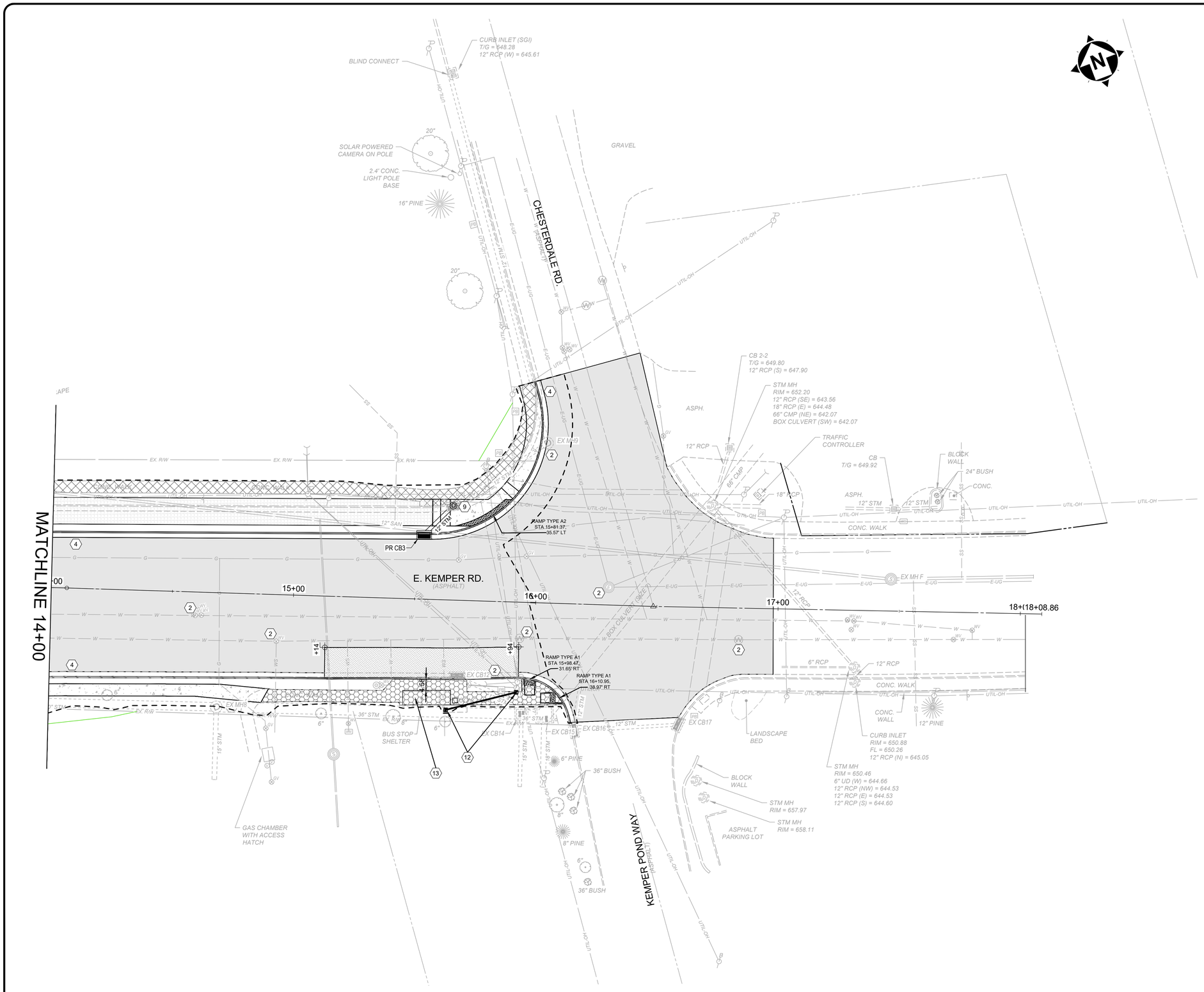
PLAN

PROJECT NO. 242429

DISCIPLINE: CIVIL

SHEET NAME: PL3

SHEET 13 OF 47



LEGEND & KEYNOTES

- 3" PAVEMENT PLANNING AND OVERLAY SEE TYPICAL SECTION, SHEET 2
- ASPHALT SHARED USE PATH
- ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, AS PER PLAN
- * NON-REINFORCED CONCRETE PAVEMENT, MISC.: 9" PLAIN PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL & REPLACEMENT., AS PER PLAN
- SIDEWALK REMOVED
- 5" CONCRETE SIDEWALK
- 5" CONCRETE WALK REMOVE & REPLA
- 11" CONCRETE BUS PAD, SEE DETAIL
- DETECTABLE WARNINGS
- GRADING LIMITS
- TEMPORARY EASEMENT
- PR WATER (SEE GCWW PLANS)

1. EXISTING TO BE REMOVED
2. ADJUST TO GRADE
3. TO BE RELOCATED (BY OTHERS)
4. COMBINATION CURB AND GUTTER, TYPE 2, A
5. CURB, TYPE 7, AS PER PLAN
6. CURB, TYPE 6
7. DO NOT DISTURB
8. MODULAR RETAINING WALL
9. CONVERT EX CB TO MH, SEE SHEET 6
10. DRAINAGE STRUCTURE, MISC.: CONVERT EX DB OUTLET STRUCTURE TO MH AND ADD PR DETENTION BASIN OUTLET STRUCTURE (CB2
11. CURB SHALL BE REPLACED TO MATCH EX WHERE SIDEWALK IS BEING REMOVED AND ALSO ALONG NEW DRIVE APRON TO MATCH EXISTING ENTRANCE. COST FOR SAID WORI SHALL BE INCIDENTAL TO THE CONTRACT
12. ITEM 625 PULL BOX, 725.08 24" & CONDUIT, 2", 725.051. -PROVIDE AND INSTALL NEW SERVICE METE AND REQUIRED WIRING. THE COST FOR THI WORK SHALL BE INCIDENTAL TO ITEM 625.
13. ITEM SPECIAL - REMOVE EXISTING BUS SHELTER, PROVIDE AND INSTALL NEW SHELTER
14. ITEM 609 CONCRETE MEDIAN
15. CONNECT 6" CPP TO UNDERDRAIN

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
EX CB12, ODOT CB-3 STA. 15+68.44, 31.7' R	T/G = 654.56 INV 12" (SE) = 651.46
EX CB13 [CONVERT TO PR MH2], ODOT CB-3 STA. 15+64.86, -39.0' L	T/G = 654.17 INV 12" (SW) = 650.05 INV 12" (E) = 650.05
EX CB14, ODOT CB 2-4 STA. 15+95.56, 46.1' R	T/G = 654.36 INV 15" (S) = 650.11 INV 36" (W) = 649.23 INV 36" (E) = 649.23
EX CB15, ODOT CB 2-6 STA. 16+05.03, 45.9' R	T/G = 653.92 INV 18" (S) = 649.20 INV 12" (NW) = 650.93 INV 36" (W) = 648.94
EX CB16, ODOT CB-3 STA. 16+17.04, 52.3' R	T/G = 652.87 INV 12" (E) = 649.57 INV 12" (NE) = 649.57
EX CB17, ODOT CB-3 STA. 16+60.10, 48.6' R	T/G = 652.79 INV 12" (W) = 649.90
EX MH F, SAN MH STA. 17+46.37, -13.1' L	T/G = 649.72 INV 12" (NW) = 629.81 INV 12" (E) = 629.81
EX MH8, ODOT MH-3 STA. 14+69.58, 47.1' R	T/G = 659.93 INV 30" (W) = 653.62 INV 15" (S) = 653.63 INV 36" (E) = 653.62
EX MH9, ODOT MH-3 STA. 16+02.80, -65.9' L	T/G = 651.95 INV 12" (W) = 649.83 INV 12" (N) = 649.60
PR CB3, ODOT CB-3 STA. 15+53.09, -26.7' L	T/G = 655.14 INV 12" (NE) = 652.64

verdantas

NO	REVISION	DATE

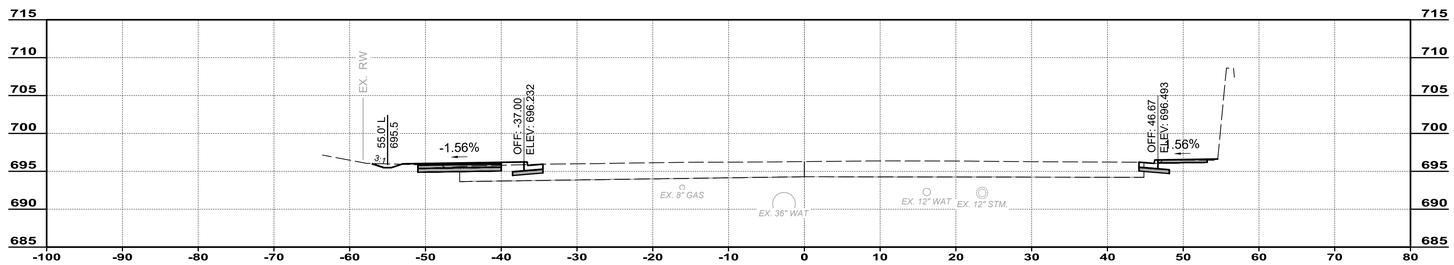
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: 1"=20'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

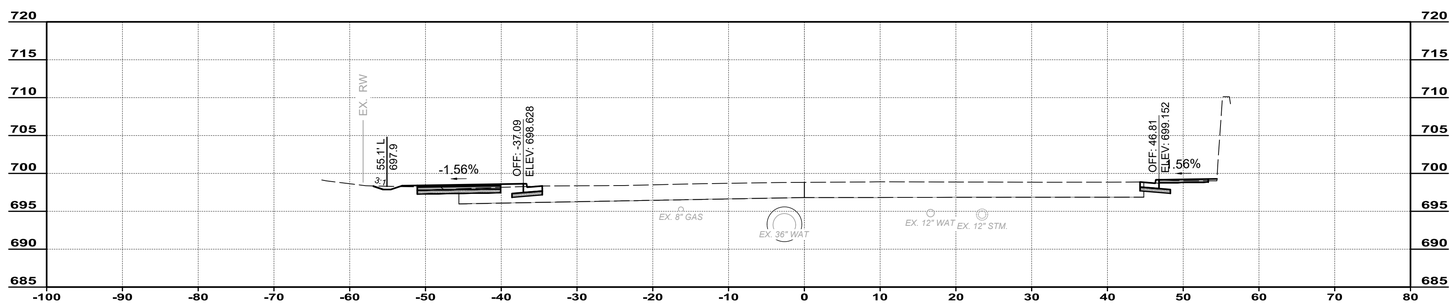
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

PLAN

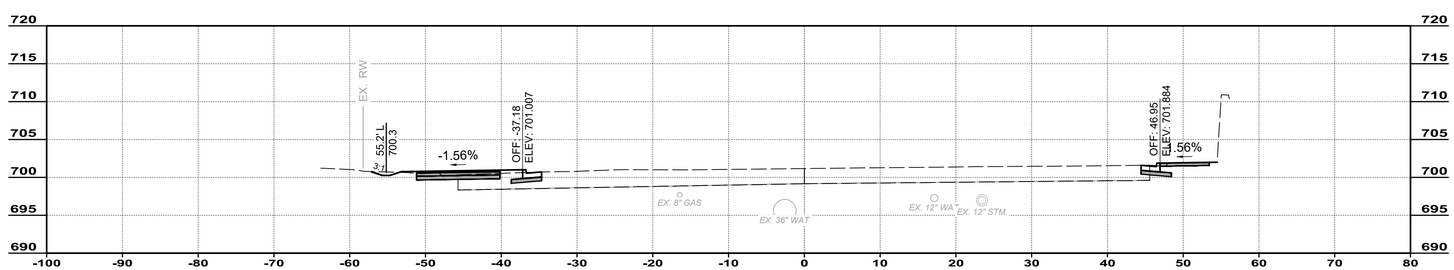
PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME PL4
SHEET 14 OF 47



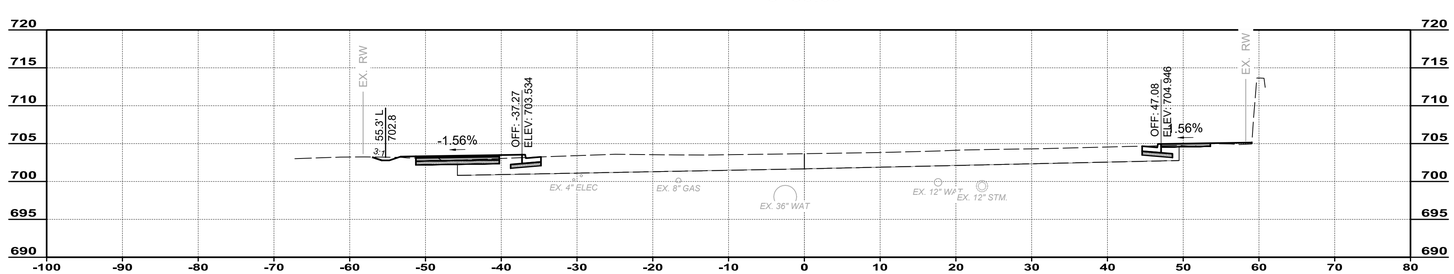
4+50.00



4+00.00



3+50.00



3+00.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

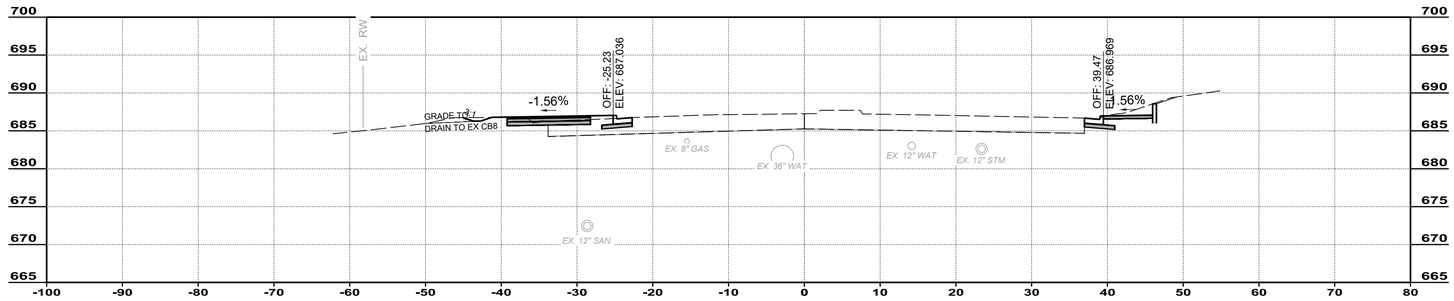
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

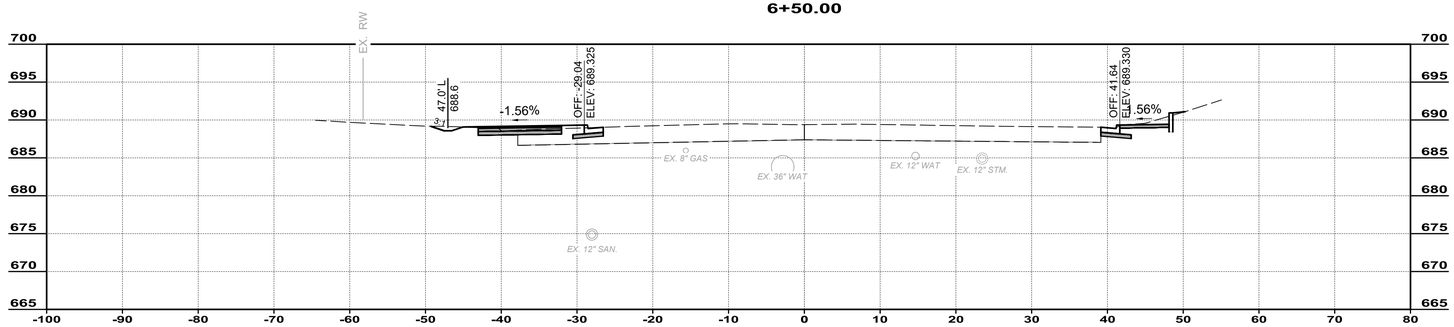
CROSS SECTIONS

PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
XS1	
SHEET	OF
15	47

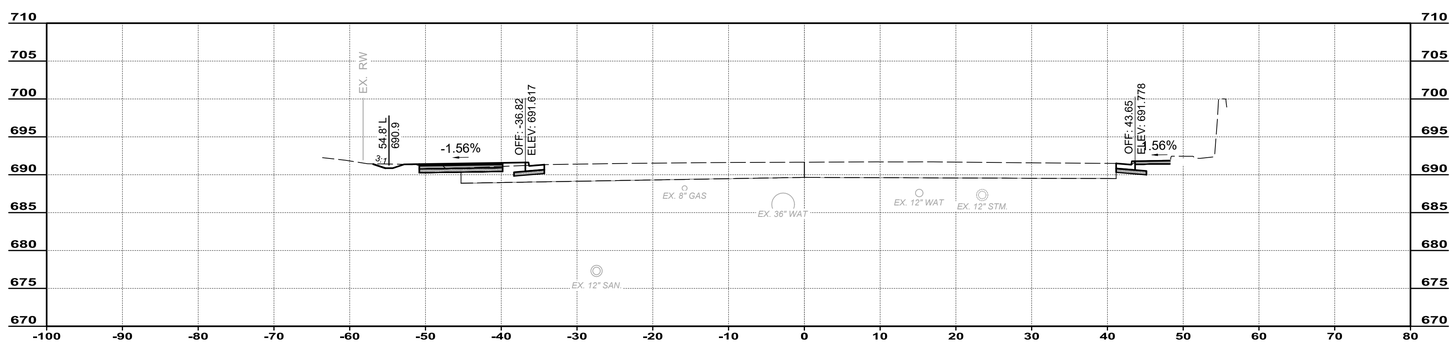
H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - CROSS SECTIONS.DWG - XS1 - 2/3/2026 10:27:38 AM - PATRICK MADL



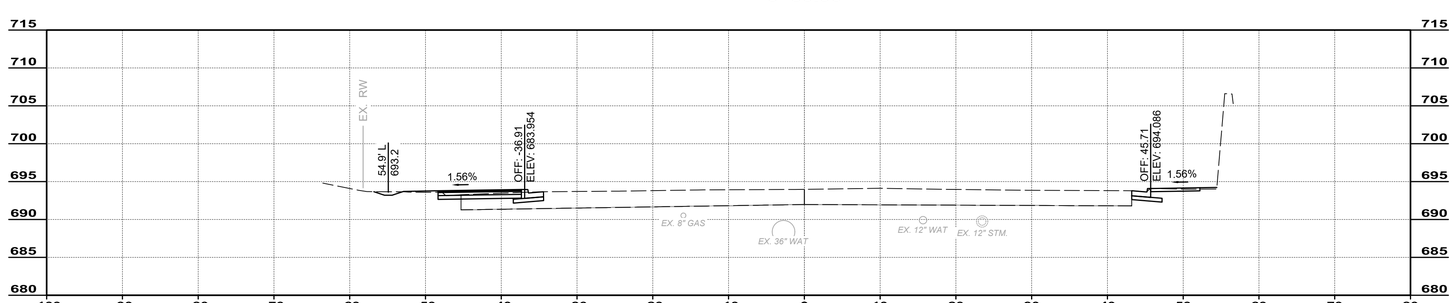
6+50.00



6+00.00



5+50.00



5+00.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

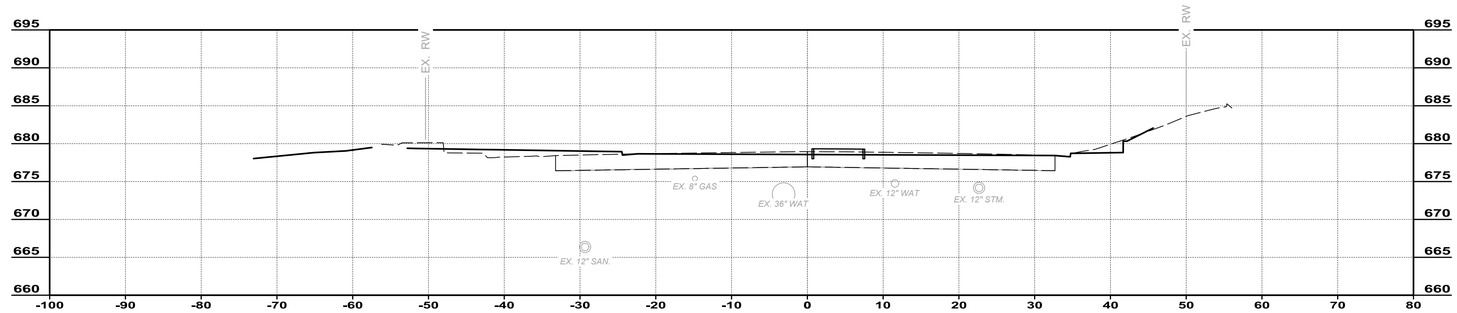
CROSS SECTIONS

PROJECT NO. 242429

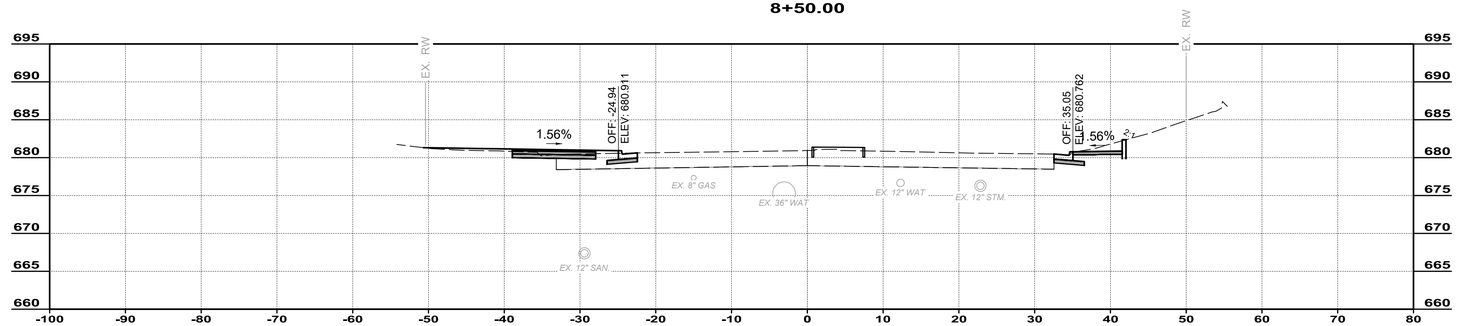
DISCIPLINE: CIVIL

SHEET NAME: XS2

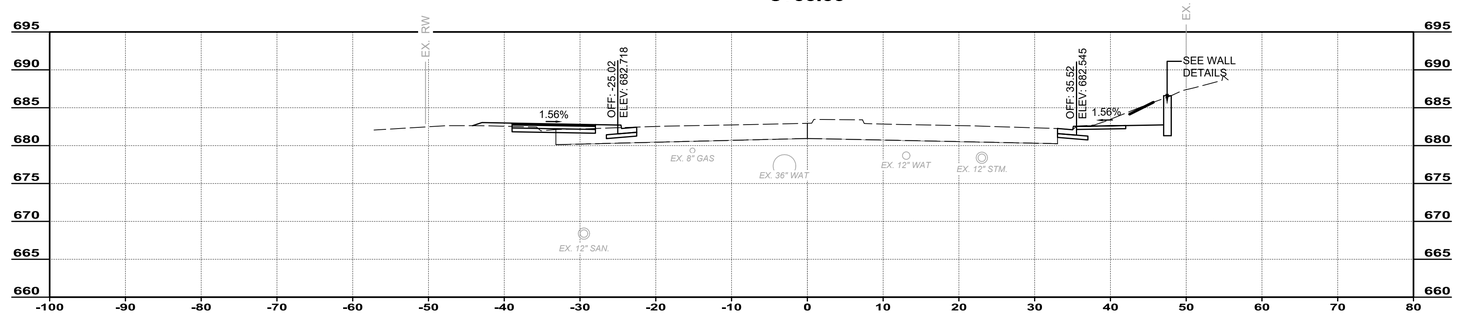
SHEET 16 OF 47



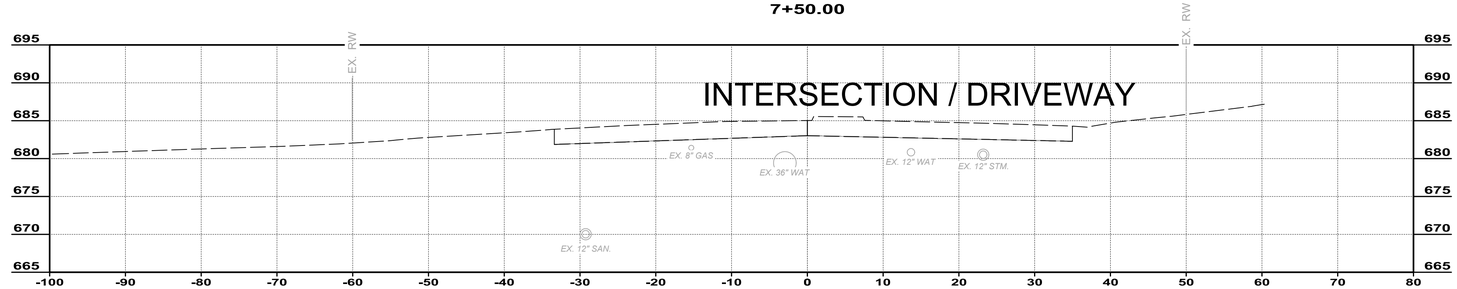
8+50.00



8+00.00



7+50.00



7+00.00

verdantas

NO	REVISION	DATE

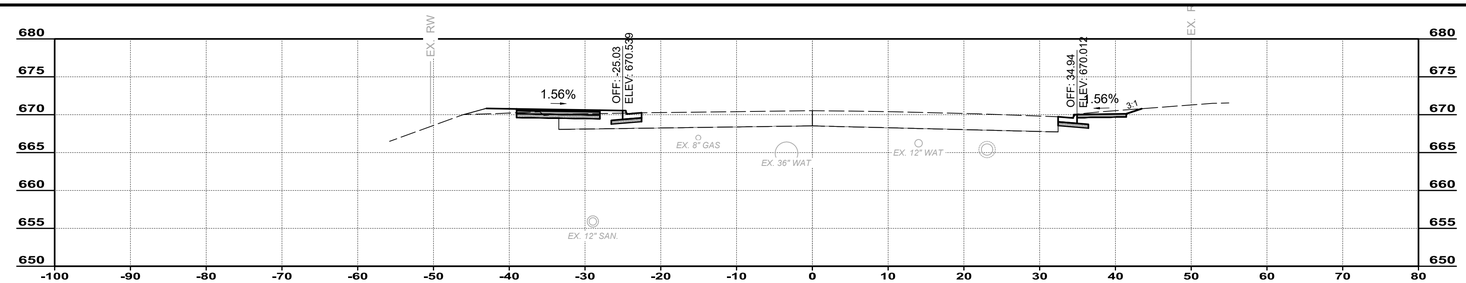
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: 1"=10'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

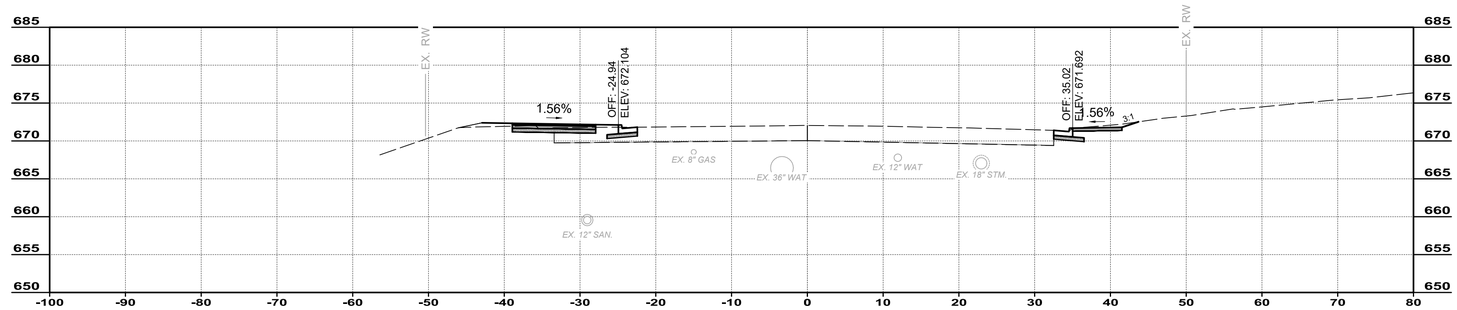
CROSS SECTIONS

PROJECT NO. 242429
DISCIPLINE: CIVIL
SHEET NAME: XS3
SHEET 17 OF 47

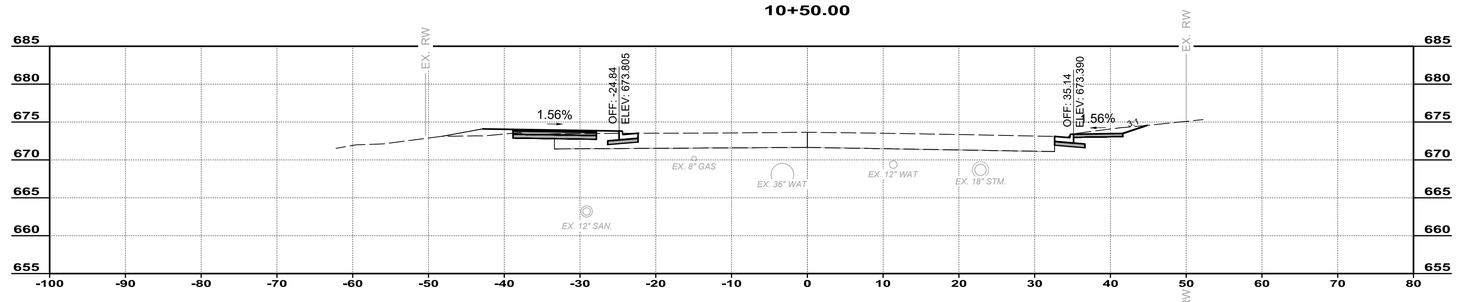
H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - CROSS SECTIONS.DWG - XS3 - 2/3/2026 10:27:38 AM - PATRICK MADL



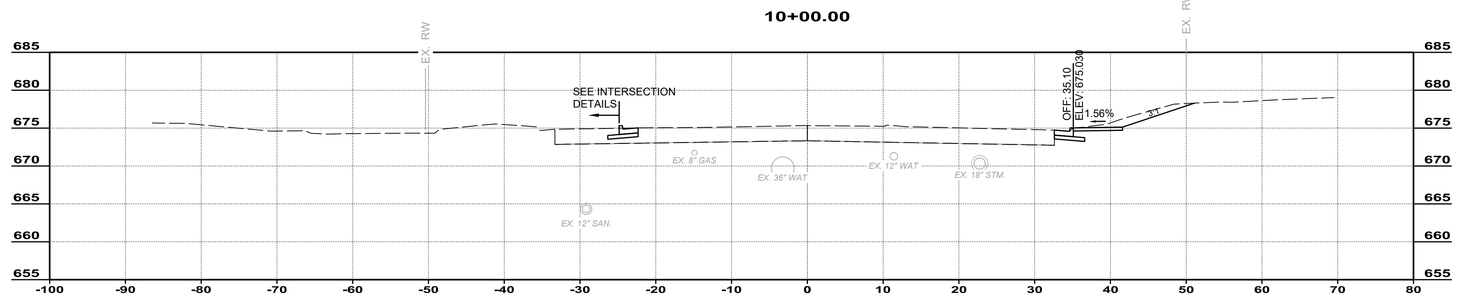
11+00.00



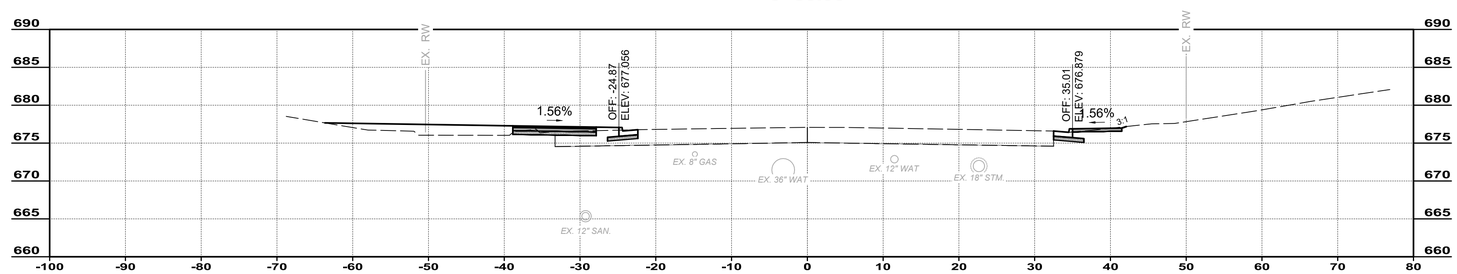
10+50.00



10+00.00



9+50.00



9+00.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRNG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

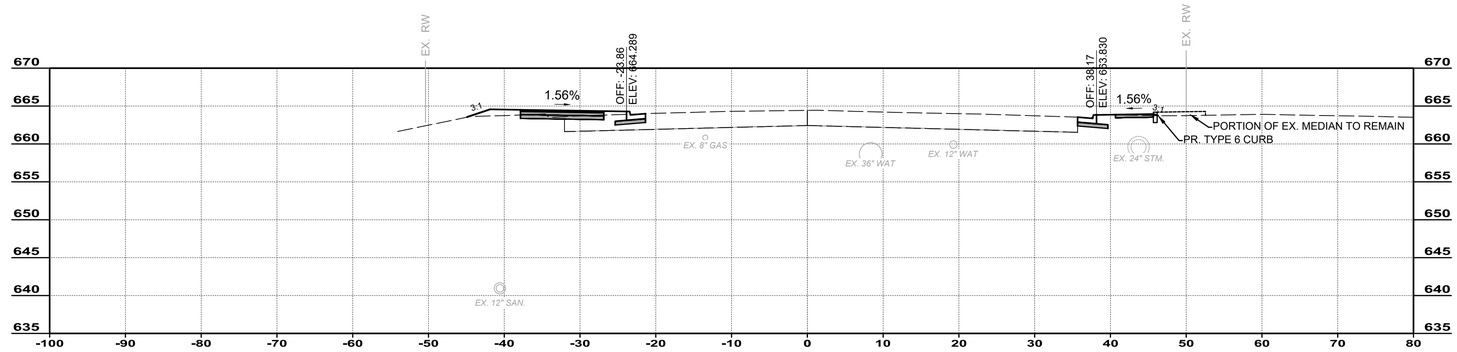
CROSS SECTIONS

PROJECT NO. 242429

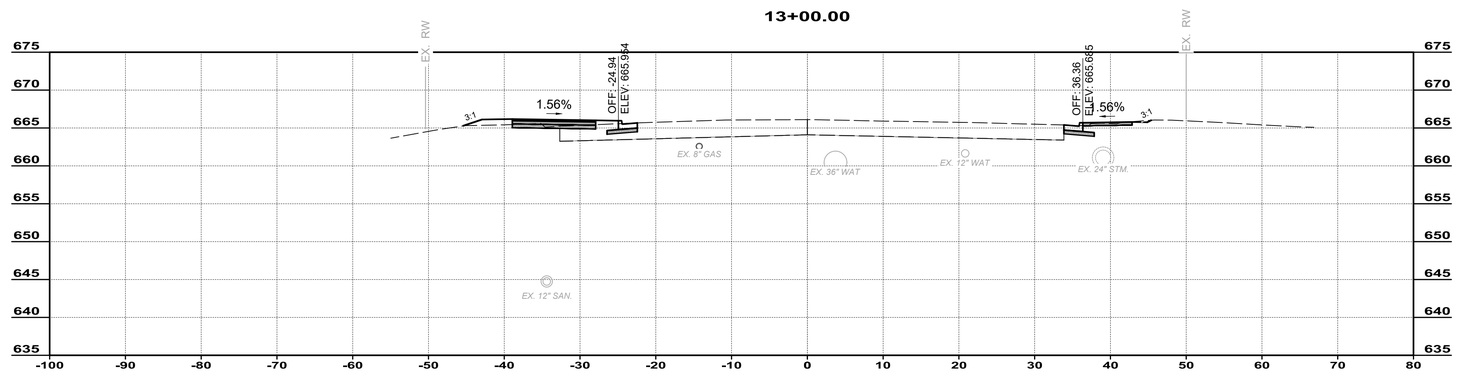
DISCIPLINE: CIVIL

SHEET NAME: XS4

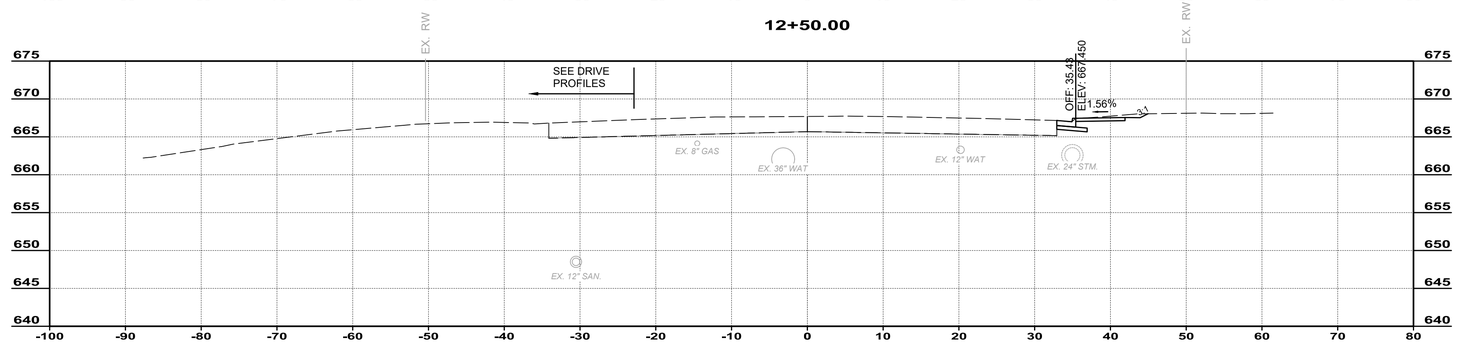
SHEET 18 OF 47



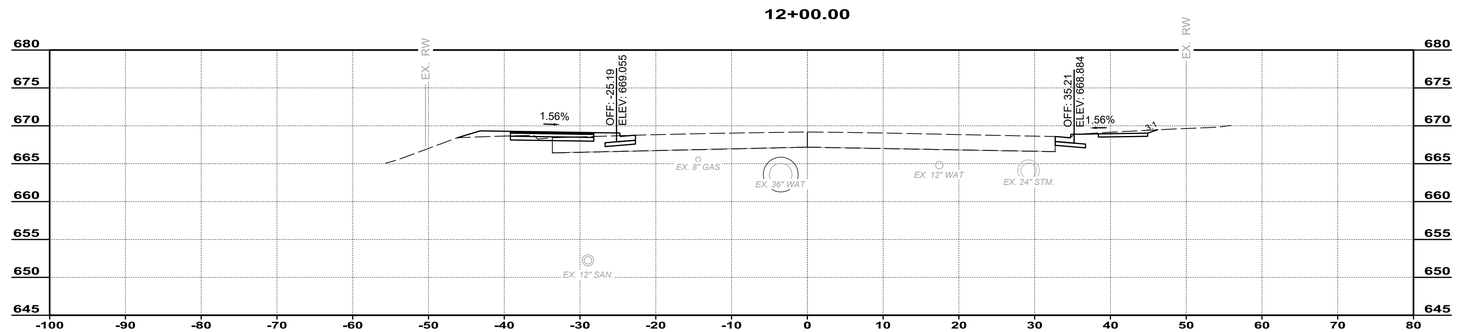
13+00.00



12+50.00



12+00.00



11+50.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

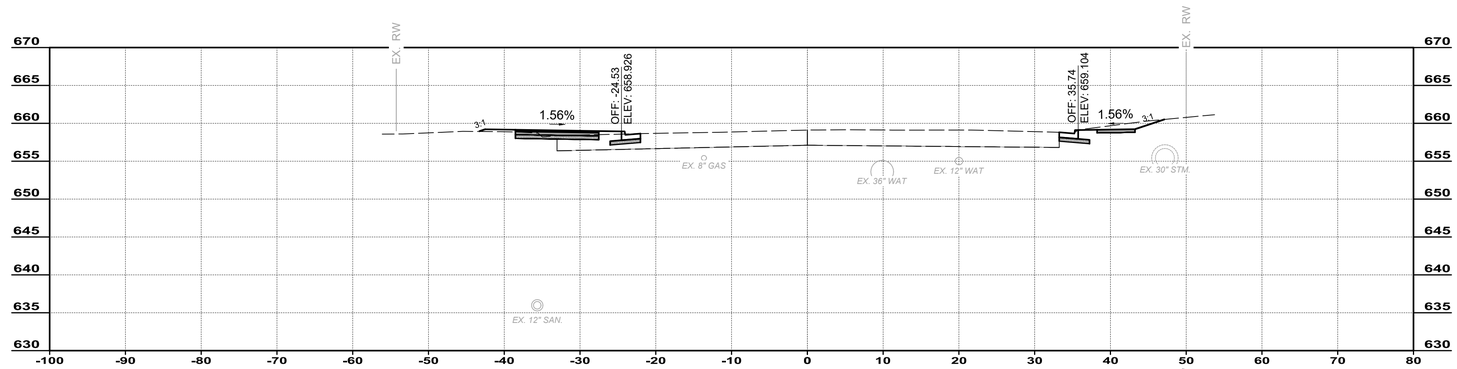
CROSS SECTIONS

PROJECT NO. 242429

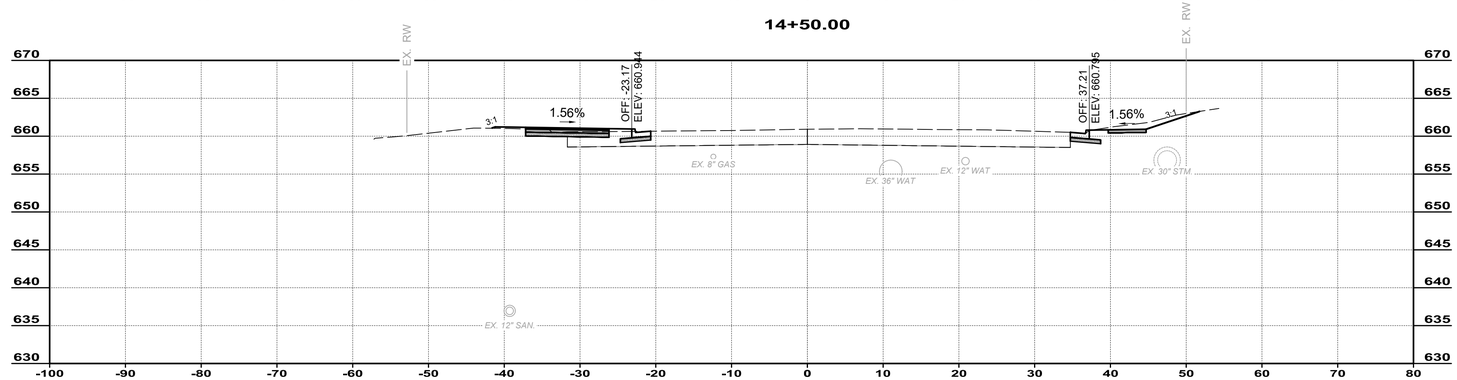
DISCIPLINE: CIVIL

SHEET NAME: XS5

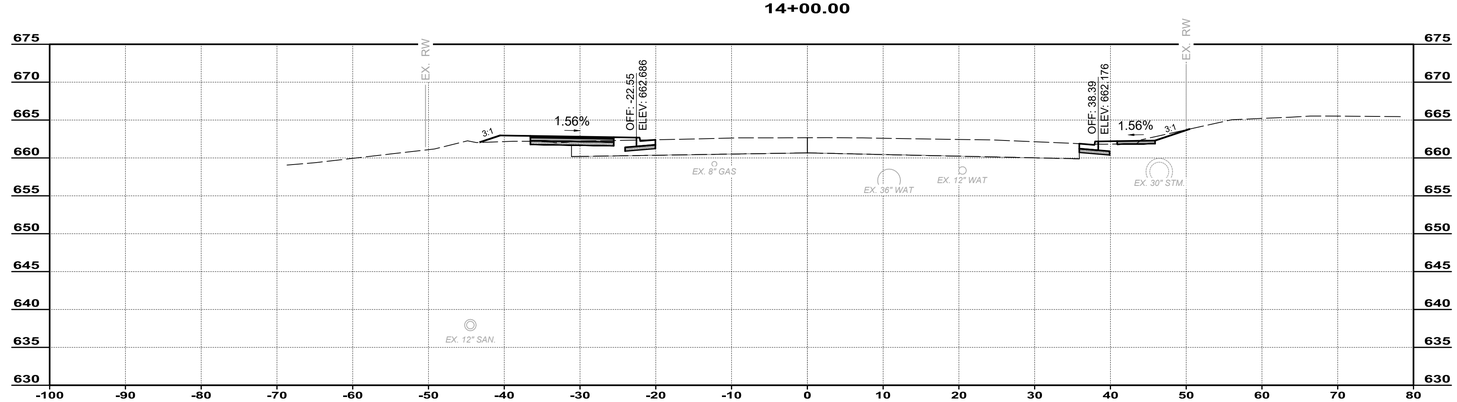
SHEET 19 OF 47



14+50.00



14+00.00



13+50.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

CROSS SECTIONS

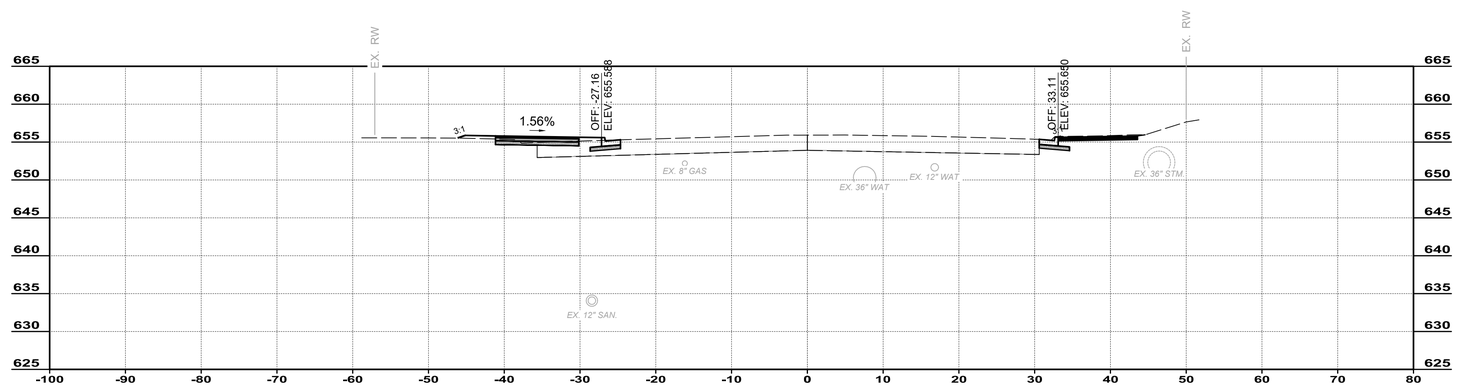
PROJECT NO. 242429

DISCIPLINE: CIVIL

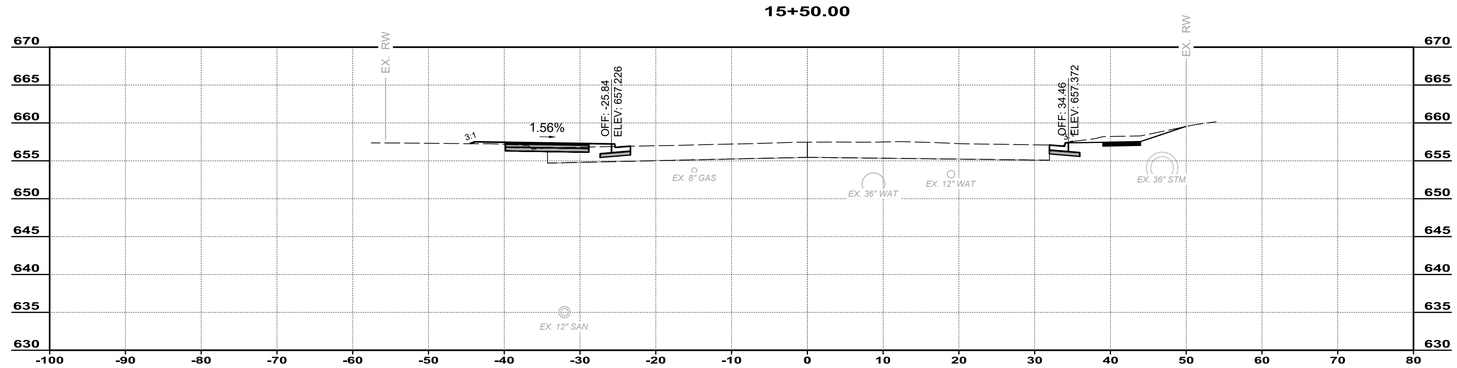
SHEET NAME: XS6

SHEET 20 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - CROSS SECTIONS.DWG - XS6 - 2/3/2026 10:27:38 AM - PATRICK MADL



15+50.00



15+00.00

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

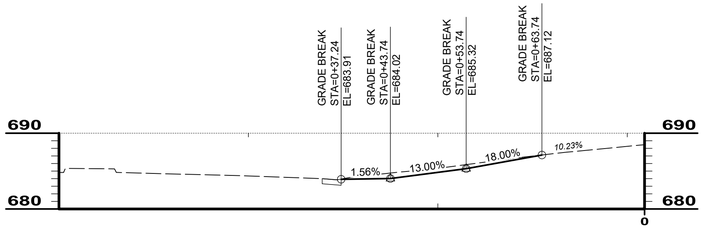
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

CROSS SECTIONS

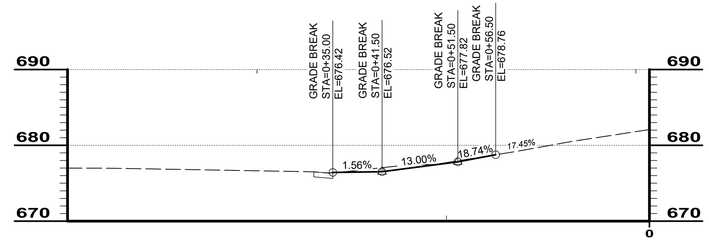
PROJECT NO.
242429
DISCIPLINE
CIVIL
SHEET NAME
XS7

SHEET	OF
21	47

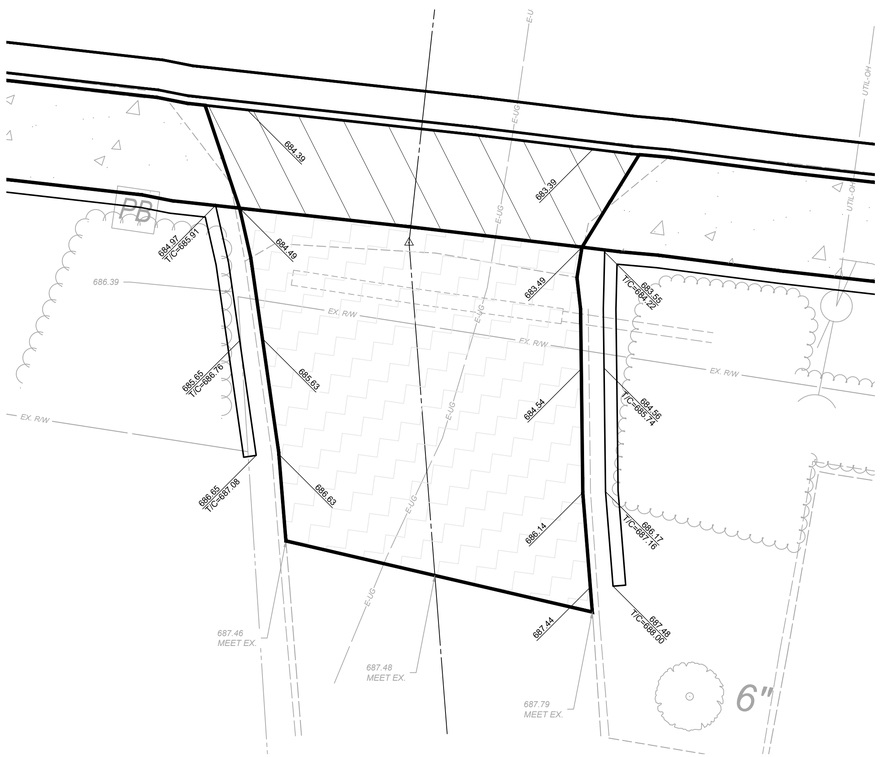
H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - CROSS SECTIONS.DWG - XS7 - 2/3/2026 10:27:38 AM - PATRICK MADL

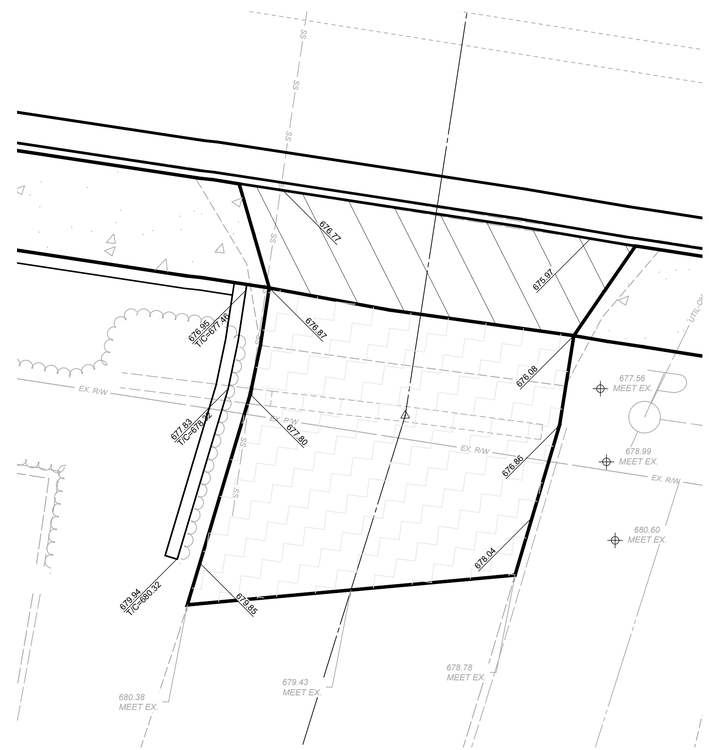


1171 E KEMPER RD #1



1171 E KEMPER RD #2





verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=5'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

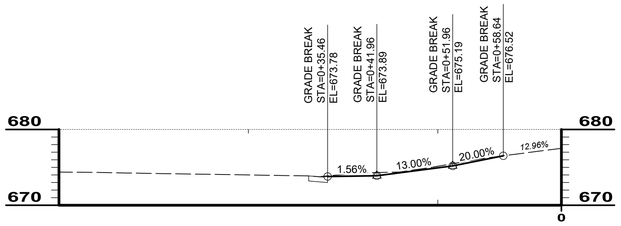
DRIVE PROFILES & DETAILS

PROJECT NO. 242429

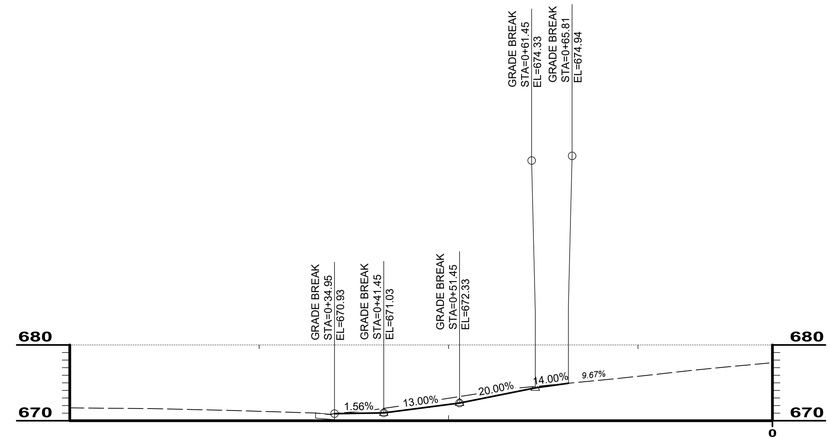
DISCIPLINE: CIVIL

SHEET NAME: PRO

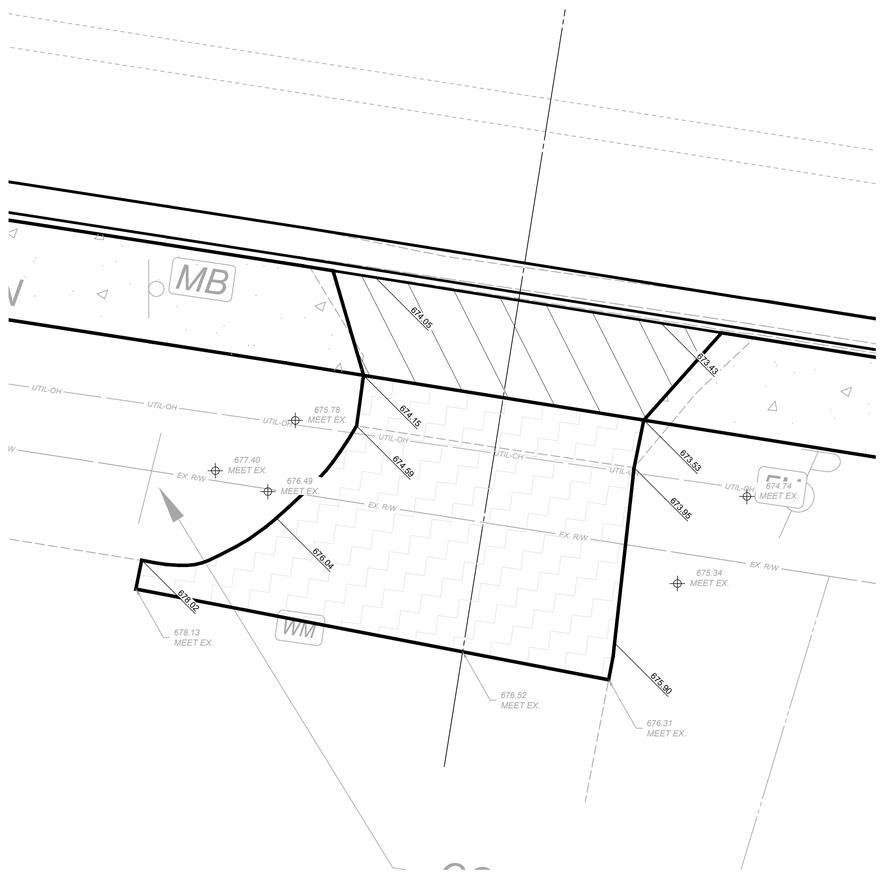
SHEET 22 OF 47

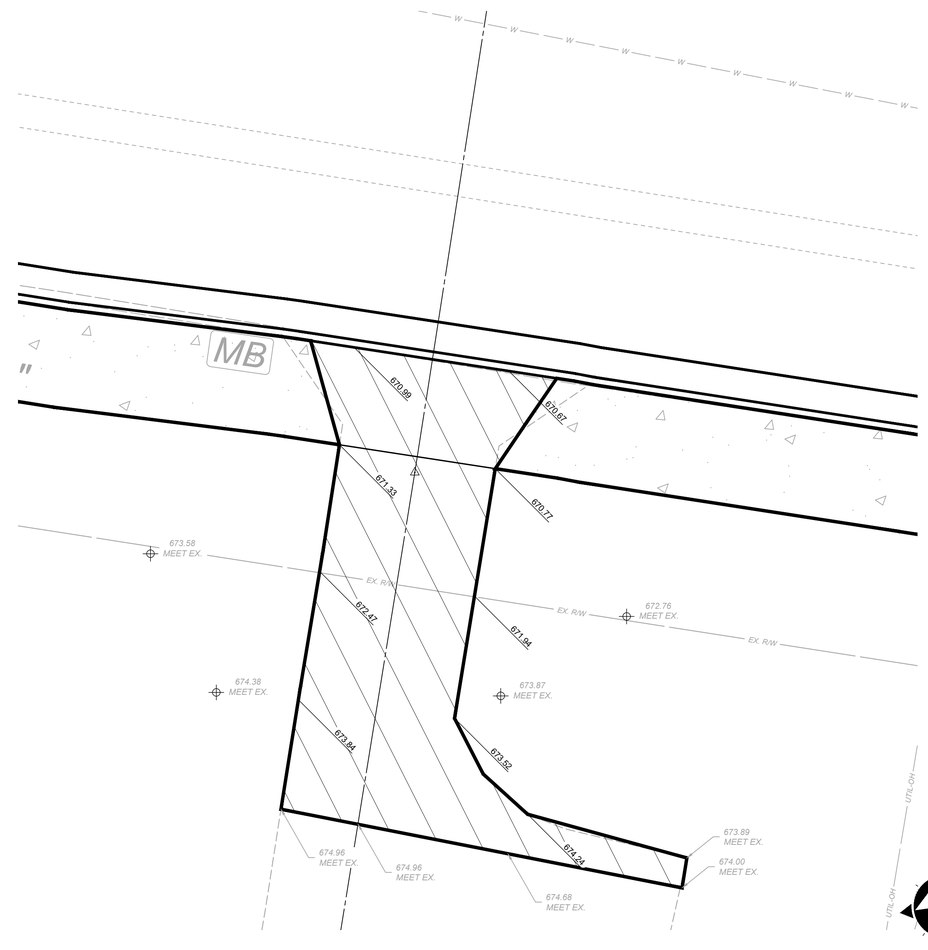


1229 E KEMPER



1251 E KEMPER





verdantas

NO	REVISION	DATE

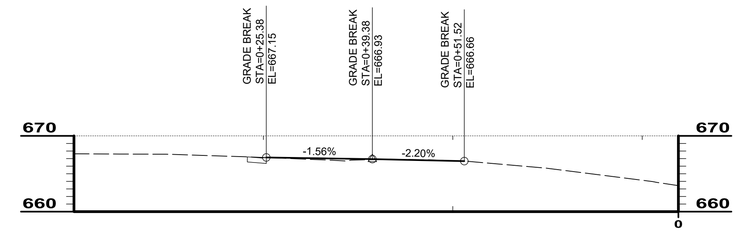
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: 1"=5'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

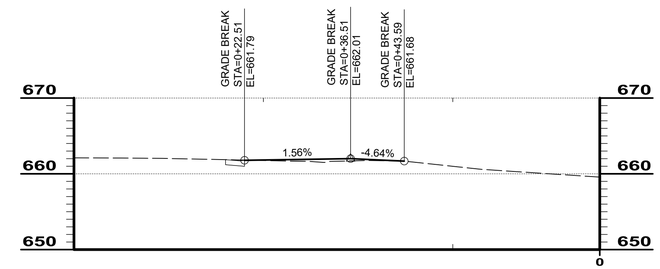
DRIVE PROFILES & DETAILS

PROJECT NO. 242429
DISCIPLINE: CIVIL
SHEET NAME: DP2
SHEET 23 OF 47

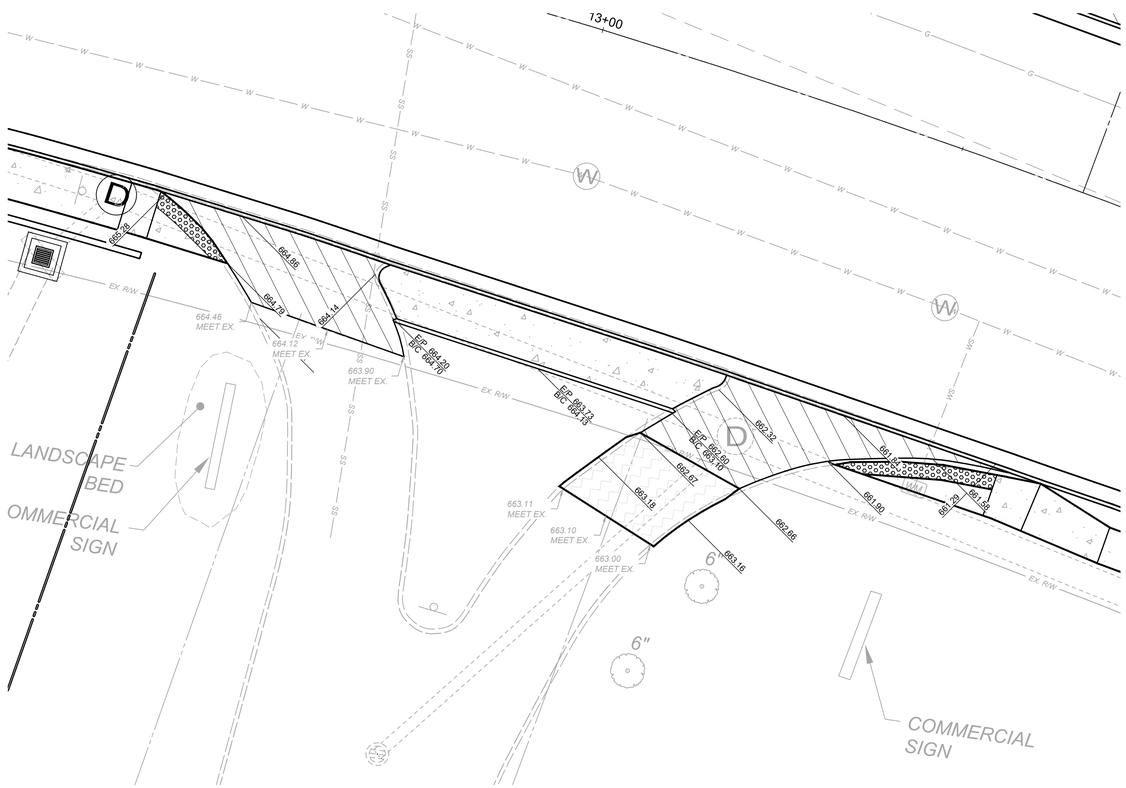
H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - DRIVE PROFILES.DWG - DP2 - 1/20/2026 9:36:49 AM - PATRICK MADL



1262 E KEMPER



1340 E KEMPER



1309 E. KEMPER RD

verdantas

NO	REVISION	DATE

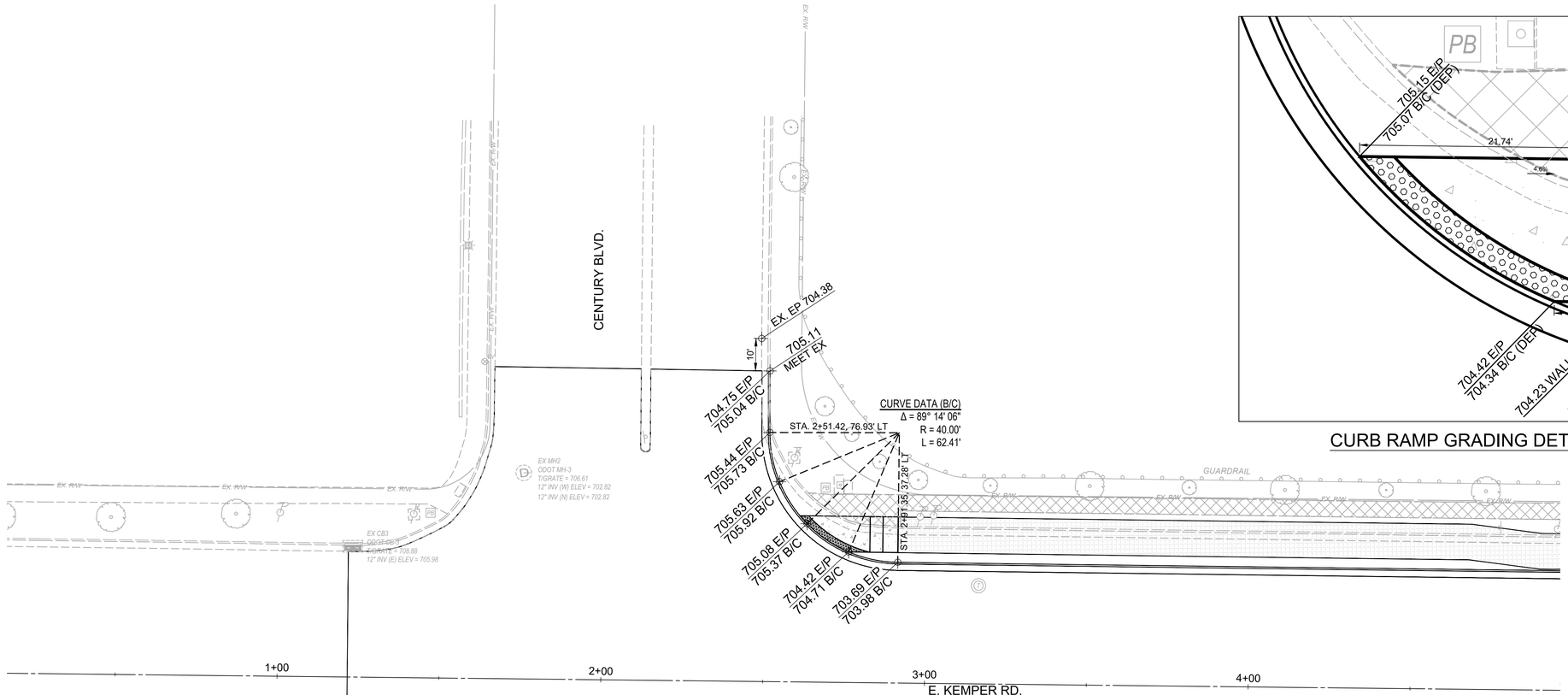
ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

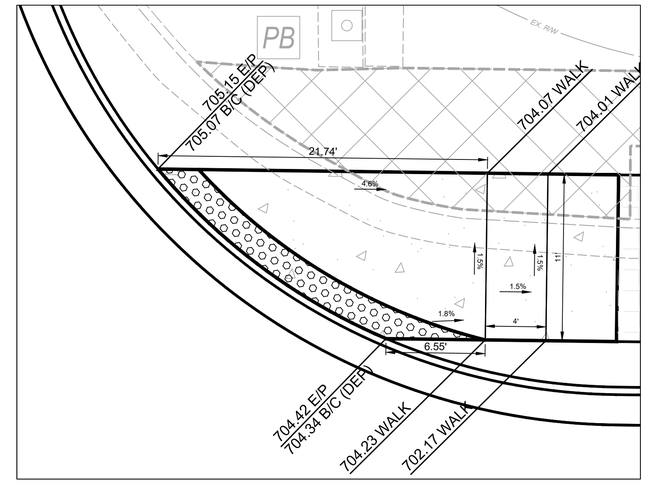
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

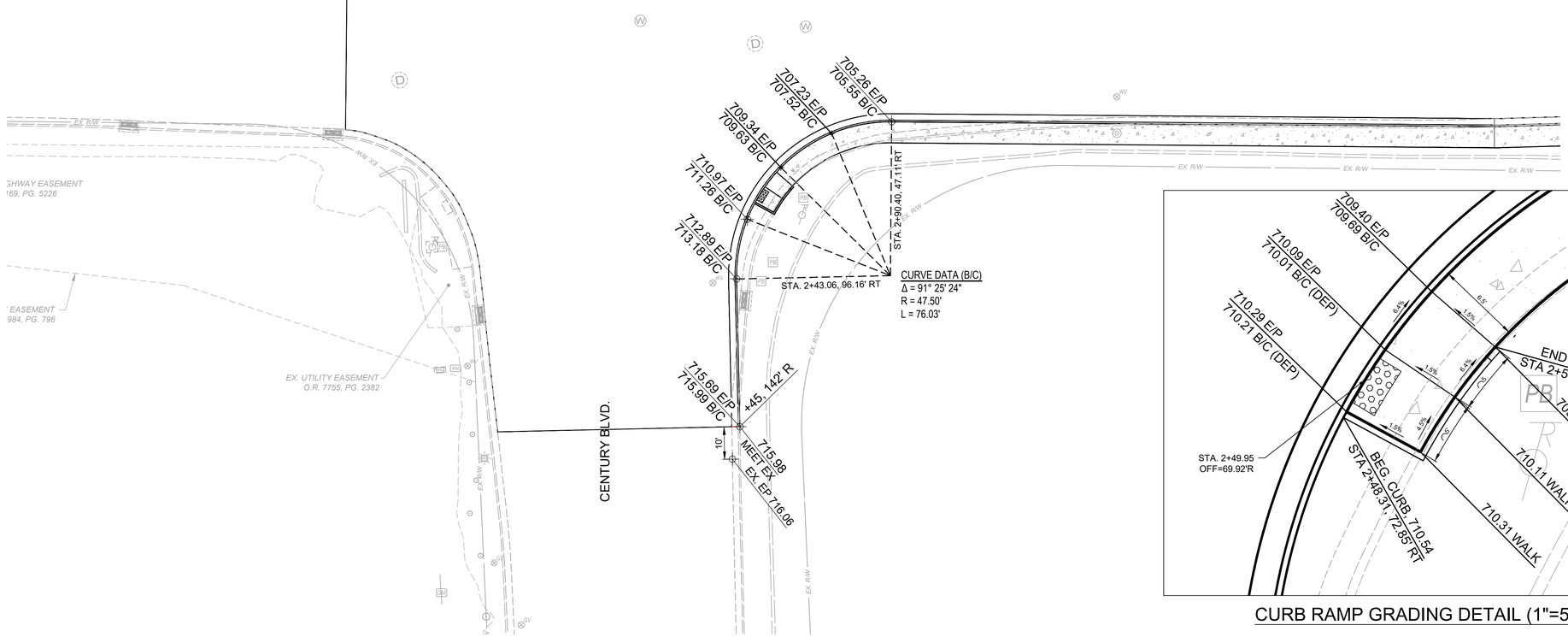
DRIVE PROFILES & DETAILS

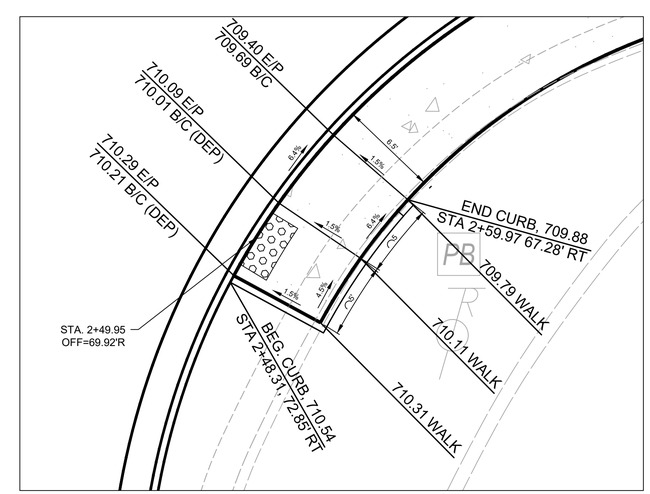
PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
DP3	
SHEET	OF
24	47





CURB RAMP GRADING DETAIL (1"=5')





CURB RAMP GRADING DETAIL (1"=5')

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

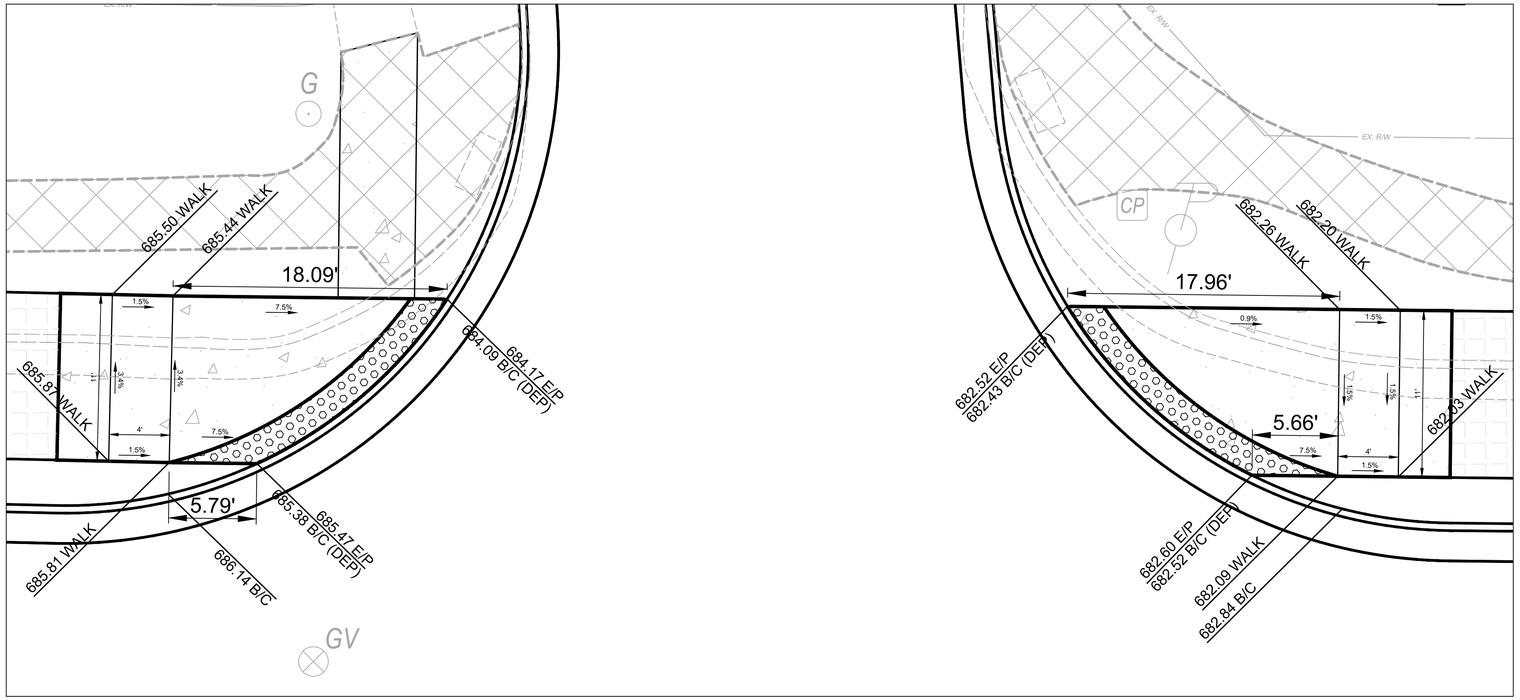
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

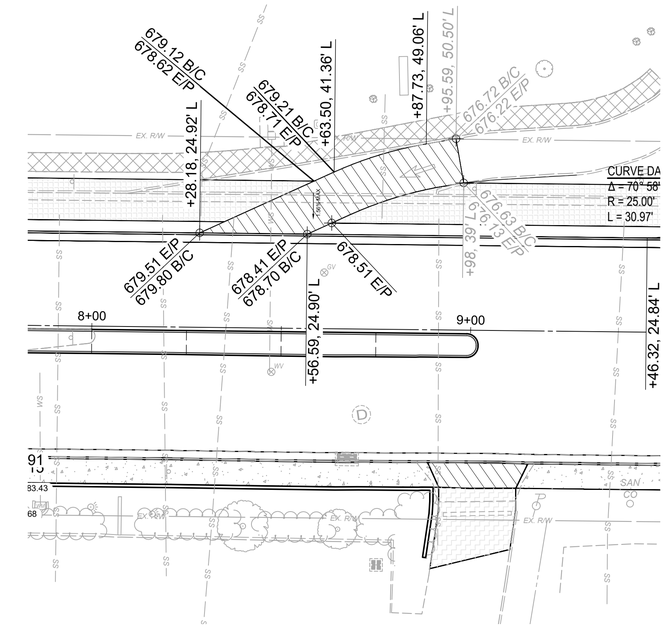
INTERSECTION DETAILS

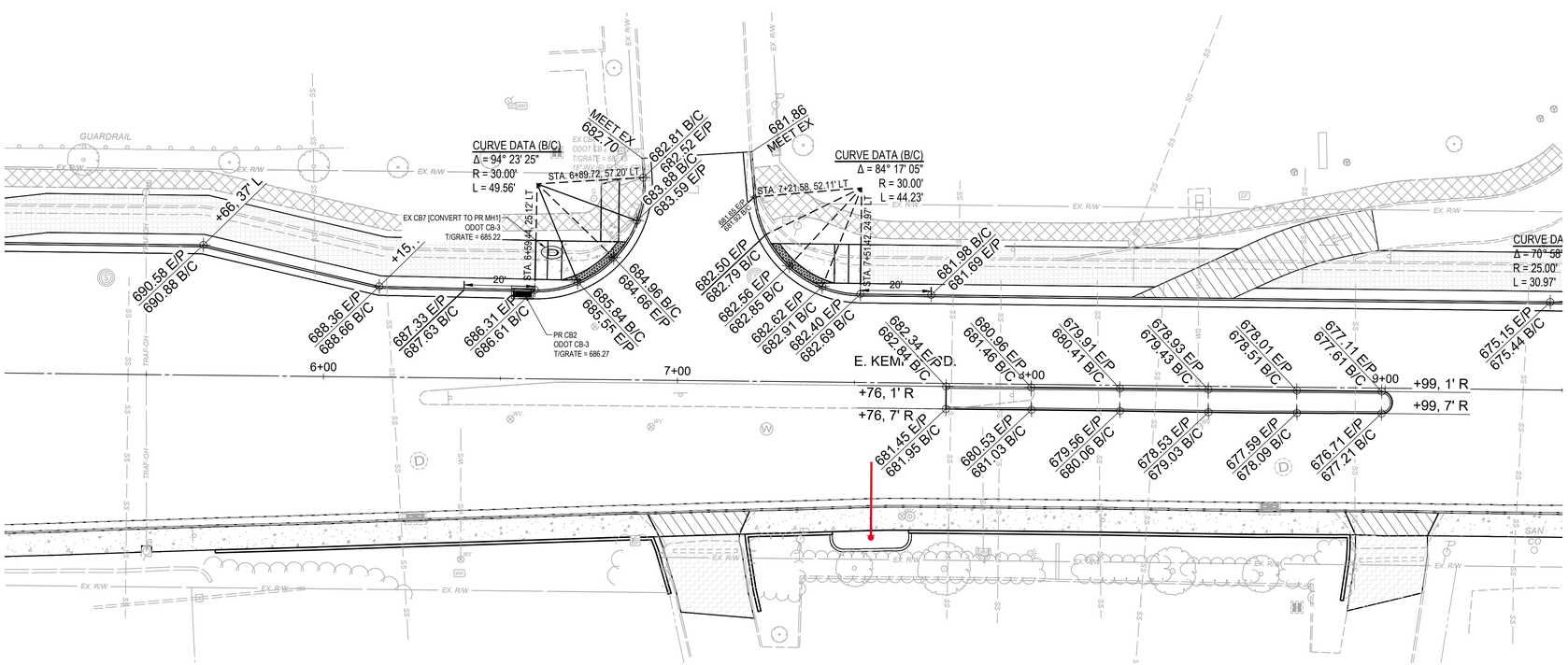
PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
INT1	
SHEET	OF
25	47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - INTERSECTION DETAILS.DWG - INT1 - 2/4/2026 12:10:21 PM - PATRICK MADL



CURB RAMP GRADING DETAIL (1"=5')





verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

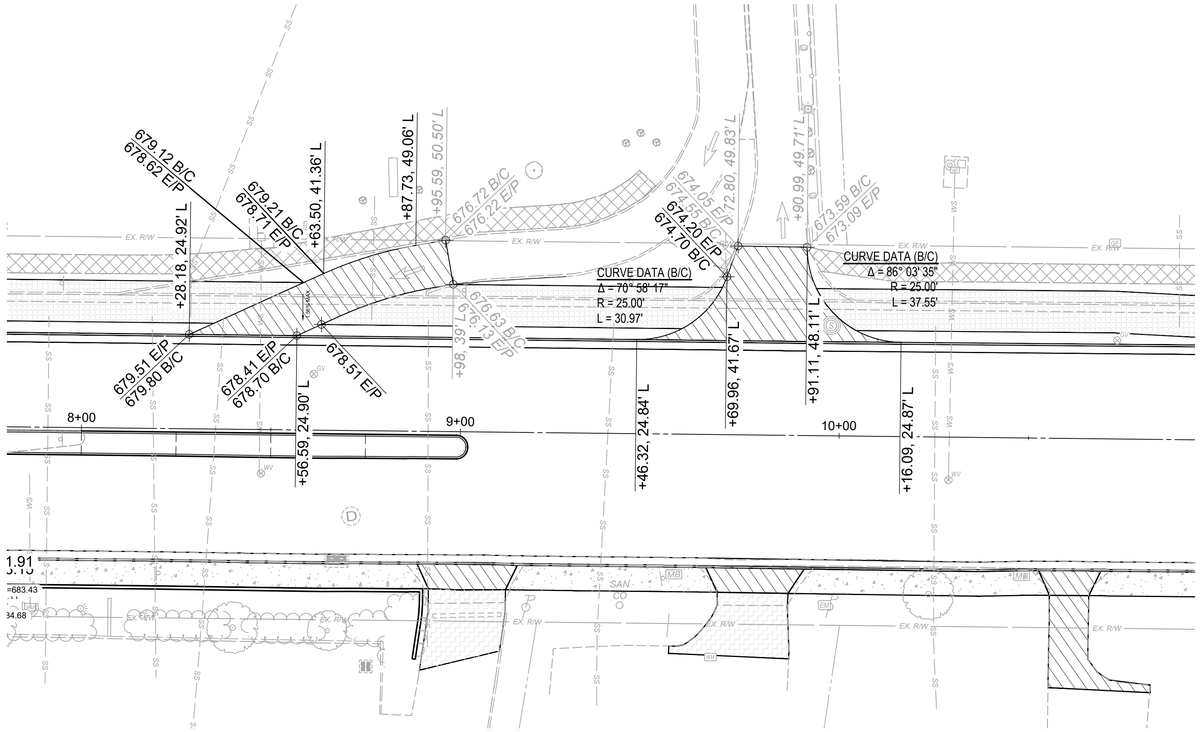
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

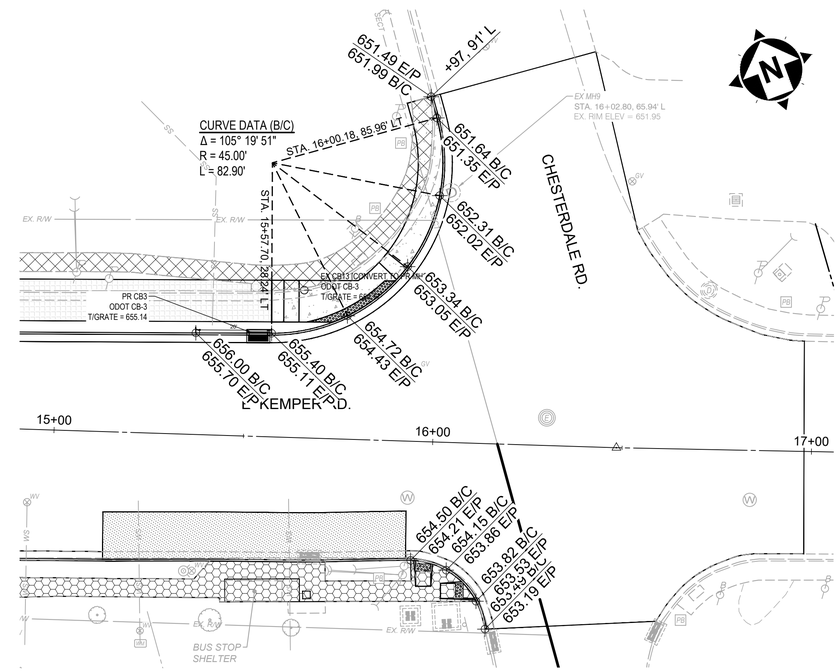
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

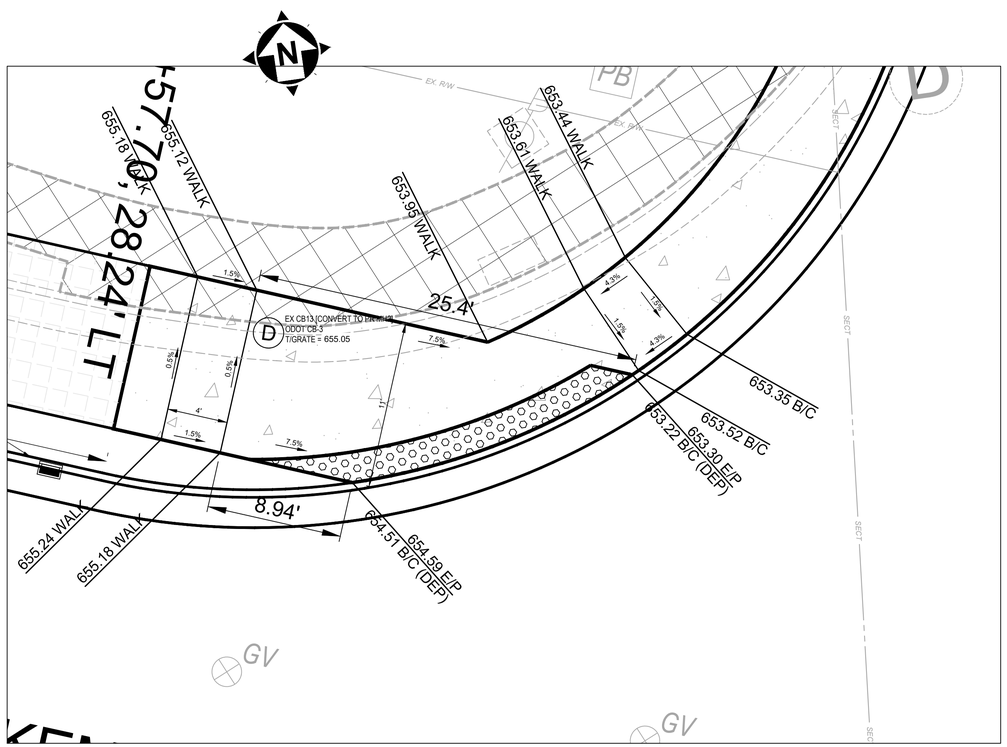
INTERSECTION DETAILS

PROJECT NO.
242429
DISCIPLINE
CIVIL
SHEET NAME
INT2

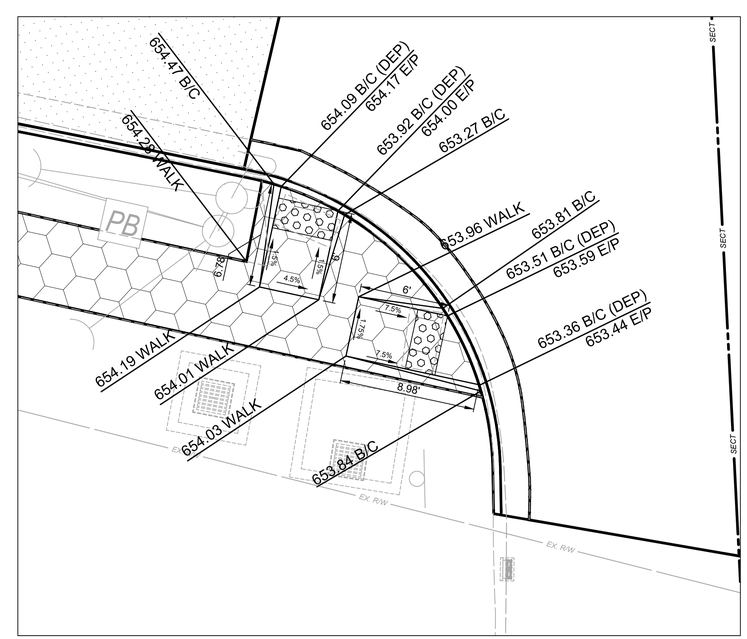
SHEET	OF
26	47







CURB RAMP GRADING DETAIL (1"=5')



CURB RAMP GRADING DETAIL (1"=5')

verdantas

NO	REVISION	DATE

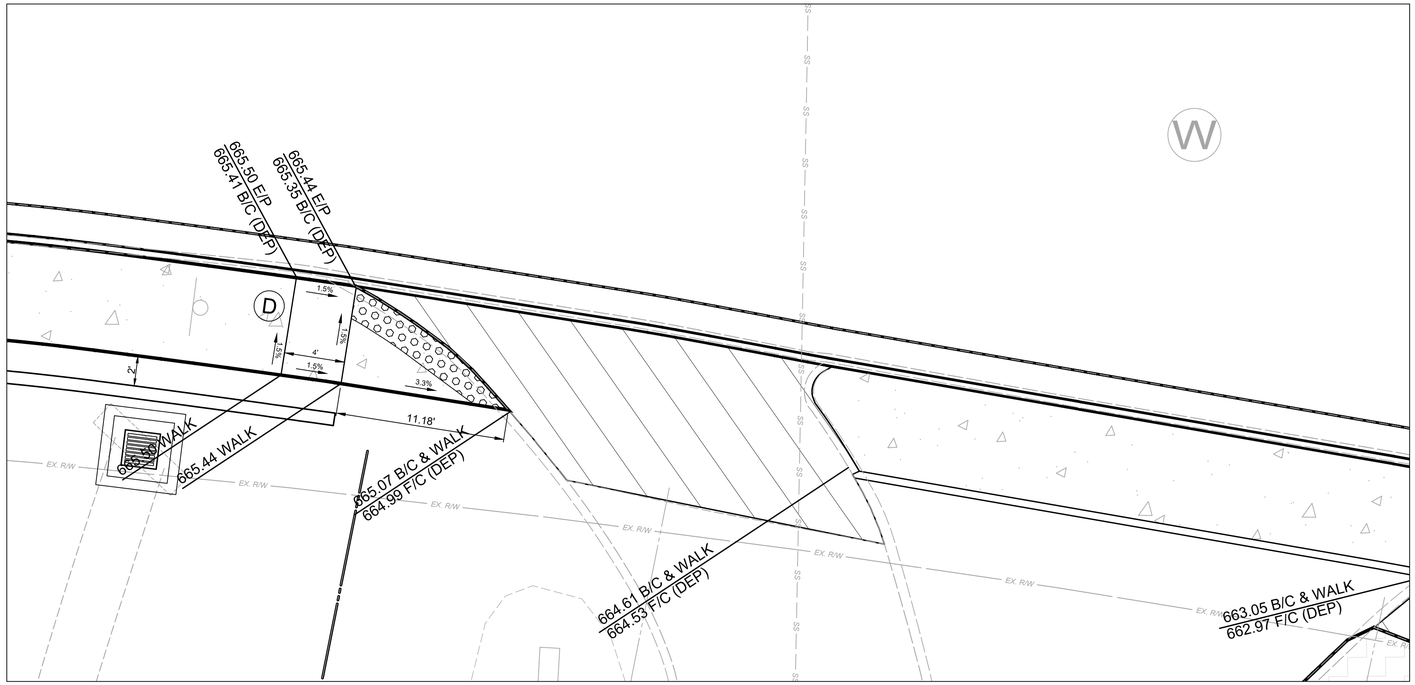
ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

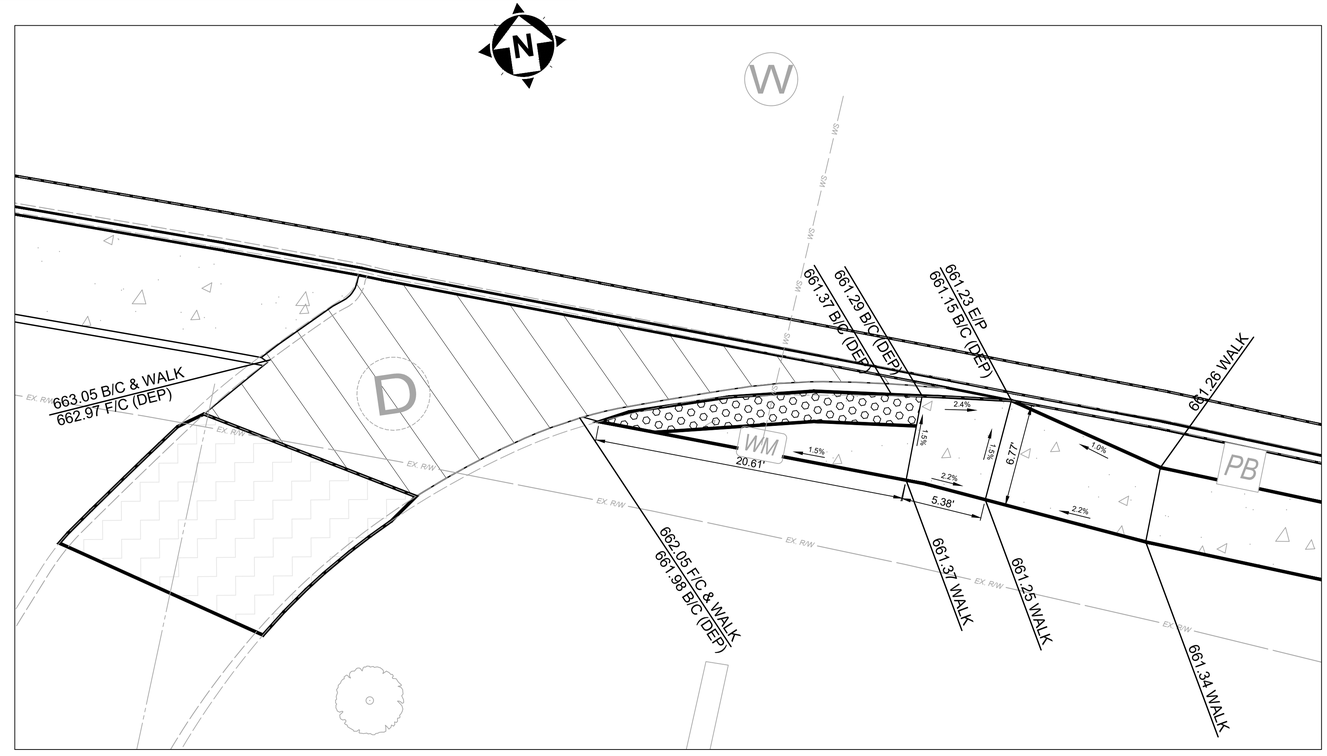
INTERSECTION DETAILS

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME INT3
SHEET 27 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - INTERSECTION DETAILS.DWG - INT3 - 2/4/2026 12:10:21 PM - PATRICK MADL



CURB RAMP GRADING DETAIL (1"=5')



CURB RAMP GRADING DETAIL (1"=5')

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=20'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

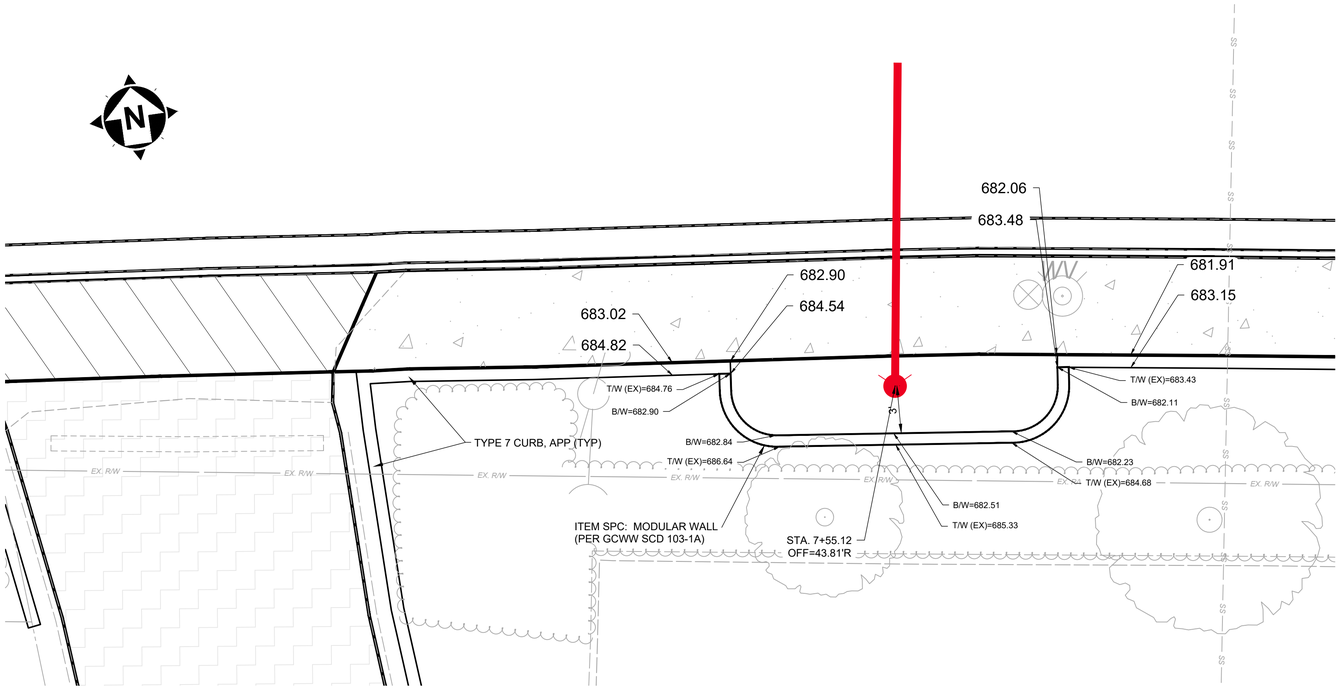
INTERSECTION DETAILS

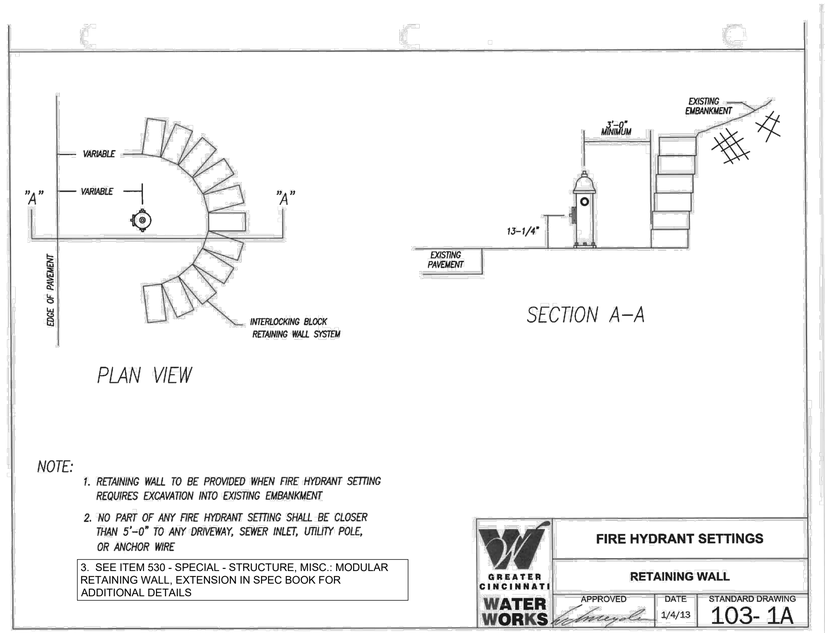
PROJECT NO.
242429

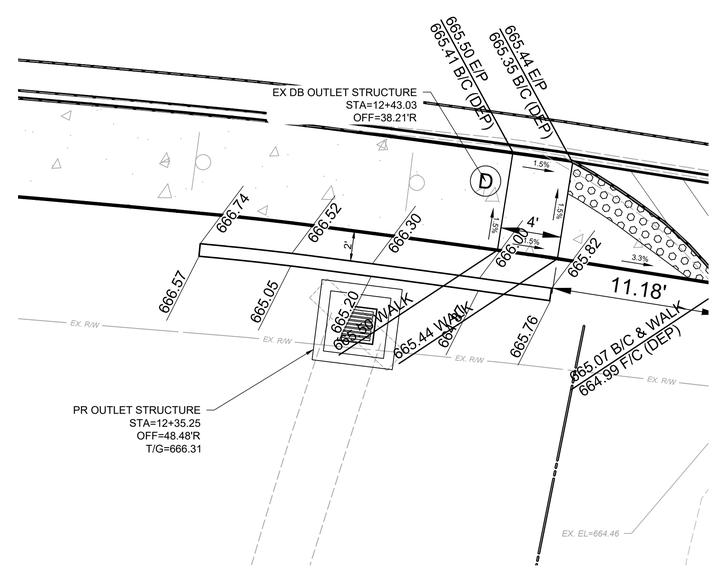
DISCIPLINE
CIVIL

SHEET NAME
INT4

SHEET 28 OF 47







verdantas

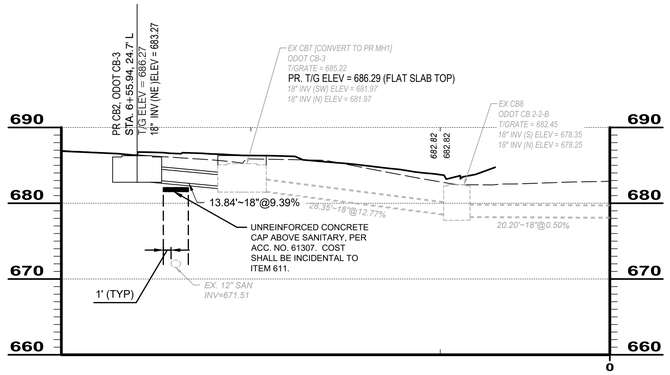
NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=5'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

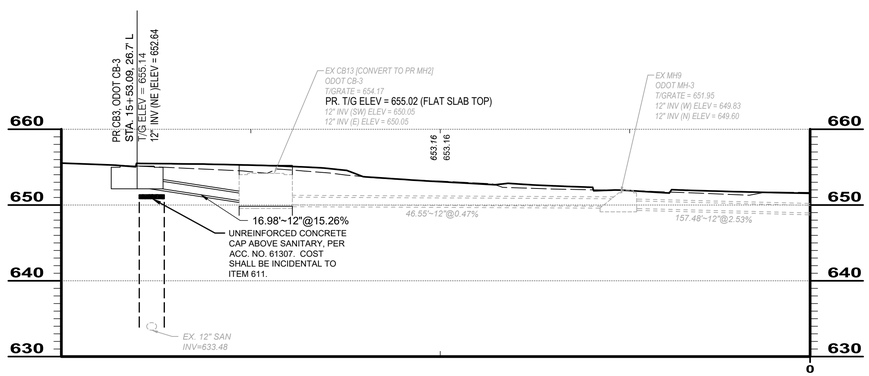
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

MODULAR WALL DETAILS

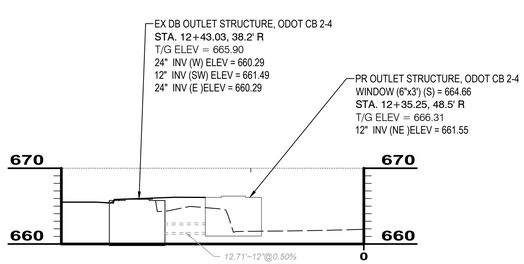
PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
MWALL	
SHEET	OF
29	47



STM - STA 6+50



STM - STA 15+50



STM - DB OUTLET STRUCTURE RECONFIGURATION

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	1"=10'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

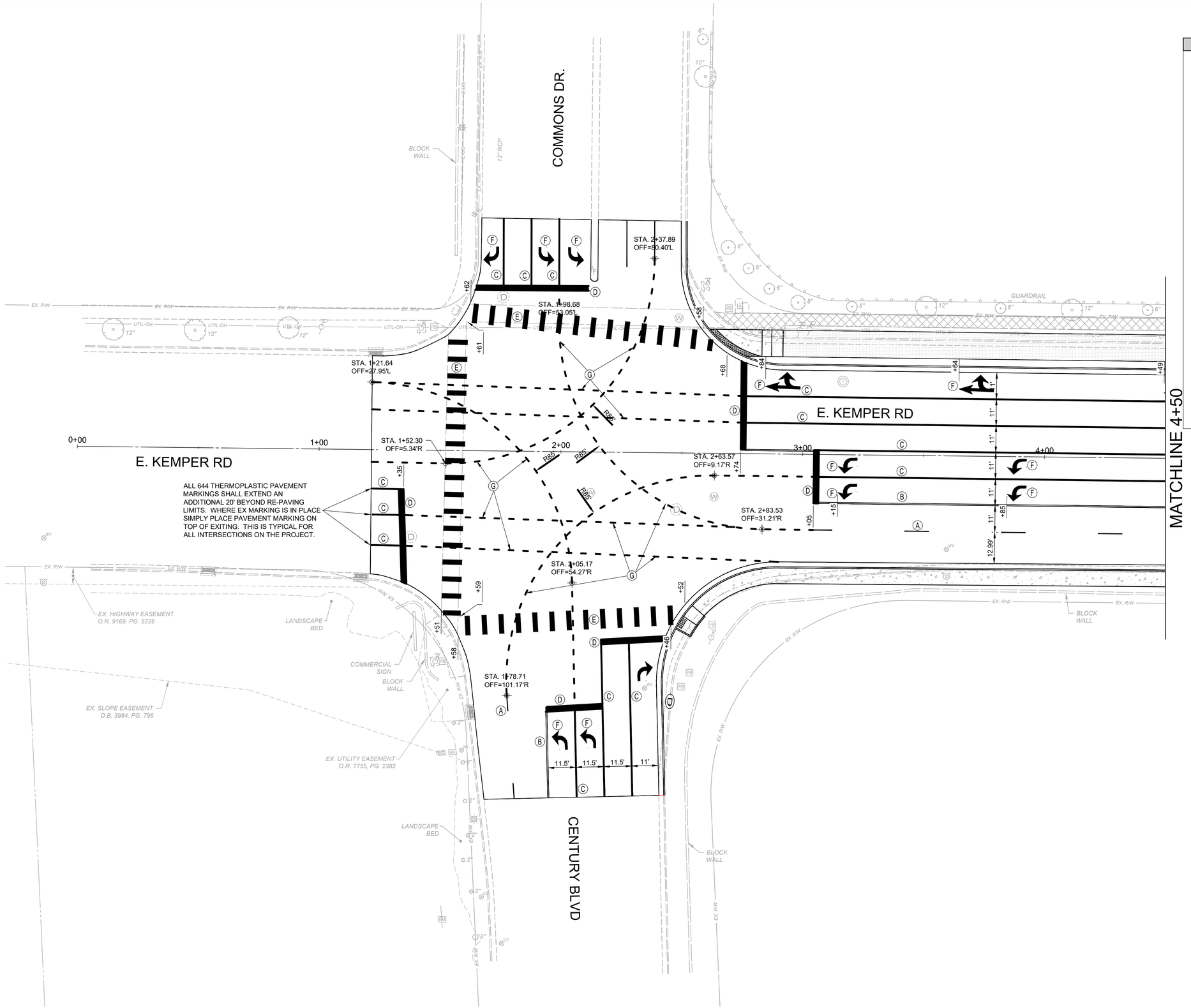
STORM PROFILES

PROJECT NO. 242429

DISCIPLINE: CIVIL

SHEET NAME: STM PRO

SHEET 30 OF 47



KEYNOTES

- (A) LANE LINE, 6"
- (B) CENTER LINE, 4"
- (C) CHANNELIZING LINE, 8"
- (D) STOP LINE, 24"
- (E) CROSSWALK LINE, 24" (ODOT SCD TC-74.10) (LAYOUT TO AVOID WHEEL PATH)
- (F) LANE ARROW
- (G) DOTTED LINE, 6" (2' LINE, 4' GAP)
- (H) TRANSVERSE LINE, 24"

NOTE: INSTALL RAISED PAVEMENT MARKERS WITHIN PROJECT LIMITS PER ODOT SCD TC-65.10 AND TC-65.11

ITEM 621 - RPM, AS PER PLAN
2-WAY BLUE/BLUE RPM'S AT FIRE HYDRANT LOCATION IN LANE LINE ON SAME SIDE AS FIRE HYDRANT (CITY)

NOTE:
REPLACE PAVEMENT MARKINGS IN KIND. PROVIDE TURN LANES WITH APPROPRIATE ARROWS, CHANNELIZATION MARKINGS, ETC. WITH APPROPRIATE ITEM 644 THERMOPLASTIC PAVEMENT MARKINGS.

WET PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE SUPPLEMENTARY SPECIFICATION 807: WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS, HOWEVER GROVING FOR THE WET REFLECTIVE PAVEMENT MARKINGS IS NOT REQUIRED.

NOTE:
ITEM 630 SIGN POST REFLECTOR SHALL BE ADDED TO ALL NEW SIGN POSTS, ACCORDING THE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTE:
ALL SIGNAGE LOCATED INSIDE THE CONCRETE ISLAND SHALL USE KLEEN BREAK 425 ASSEMBLE - SURFACE MOUNT (XKBSM42520-G)

verdantas

NO	REVISION	DATE

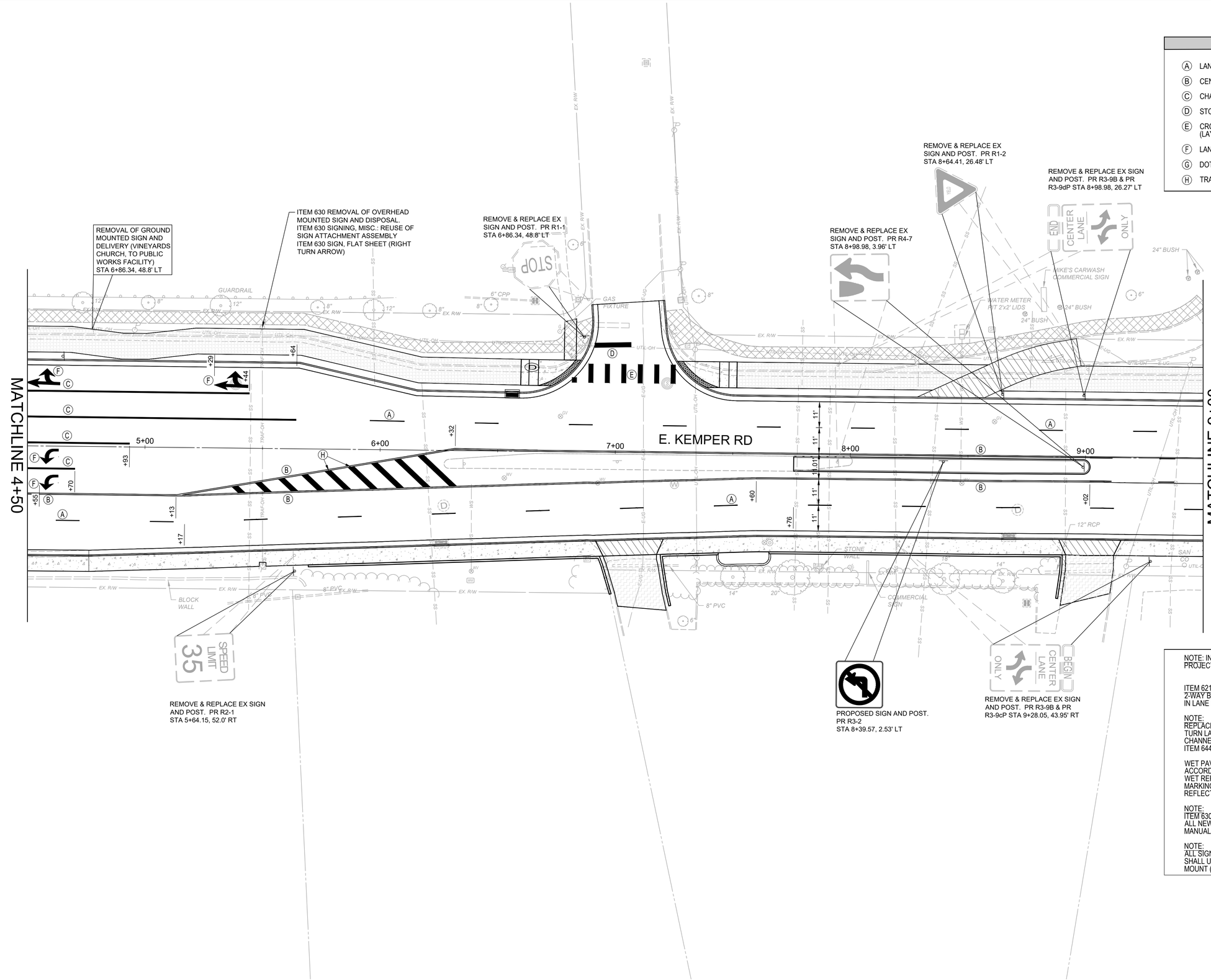
ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	XX"=XX'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC CONTROL PLAN 1

PROJECT NO.	
242429	
DISCIPLINE	
CIVIL	
SHEET NAME	
PM1	
SHEET	OF
31	47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - PAVEMENT MARKINGS.DWG - PM1 - 2/4/2026 12:11:01 PM - PATRICK MADL



KEYNOTES

- (A) LANE LINE, 6"
- (B) CENTER LINE, 4"
- (C) CHANNELIZING LINE, 8"
- (D) STOP LINE, 24"
- (E) CROSSWALK LINE, 24" (ODOT SCD TC-74.10) (LAYOUT TO AVOID WHEEL PATH)
- (F) LANE ARROW
- (G) DOTTED LINE, 6" (2' LINE, 4' GAP)
- (H) TRANSVERSE LINE, 24"

NOTE: INSTALL RAISED PAVEMENT MARKERS WITHIN PROJECT LIMITS PER ODOT SCD TC-65.10 AND TC-65.11

ITEM 621 - RPM, AS PER PLAN
2-WAY BLUE/BLUE RPM'S AT FIRE HYDRANT LOCATION IN LANE LINE ON SAME SIDE AS FIRE HYDRANT (CITY)

NOTE:
REPLACE PAVEMENT MARKINGS IN KIND. PROVIDE TURN LANES WITH APPROPRIATE ARROWS, CHANNELIZATION MARKINGS, ETC. WITH APPROPRIATE ITEM 644 THERMOPLASTIC PAVEMENT MARKINGS.

WET PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE SUPPLEMENTARY SPECIFICATION 807: WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS, HOWEVER GROVING FOR THE WET REFLECTIVE PAVEMENT MARKINGS IS NOT REQUIRED.

NOTE:
ITEM 630 SIGN POST REFLECTOR SHALL BE ADDED TO ALL NEW SIGN POSTS, ACCORDING THE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTE:
ALL SIGNAGE LOCATED INSIDE THE CONCRETE ISLAND SHALL USE KLEEN BREAK 425 ASSEMBLE - SURFACE MOUNT (XKBSM42520-G)

verdantas

NO	REVISION	DATE

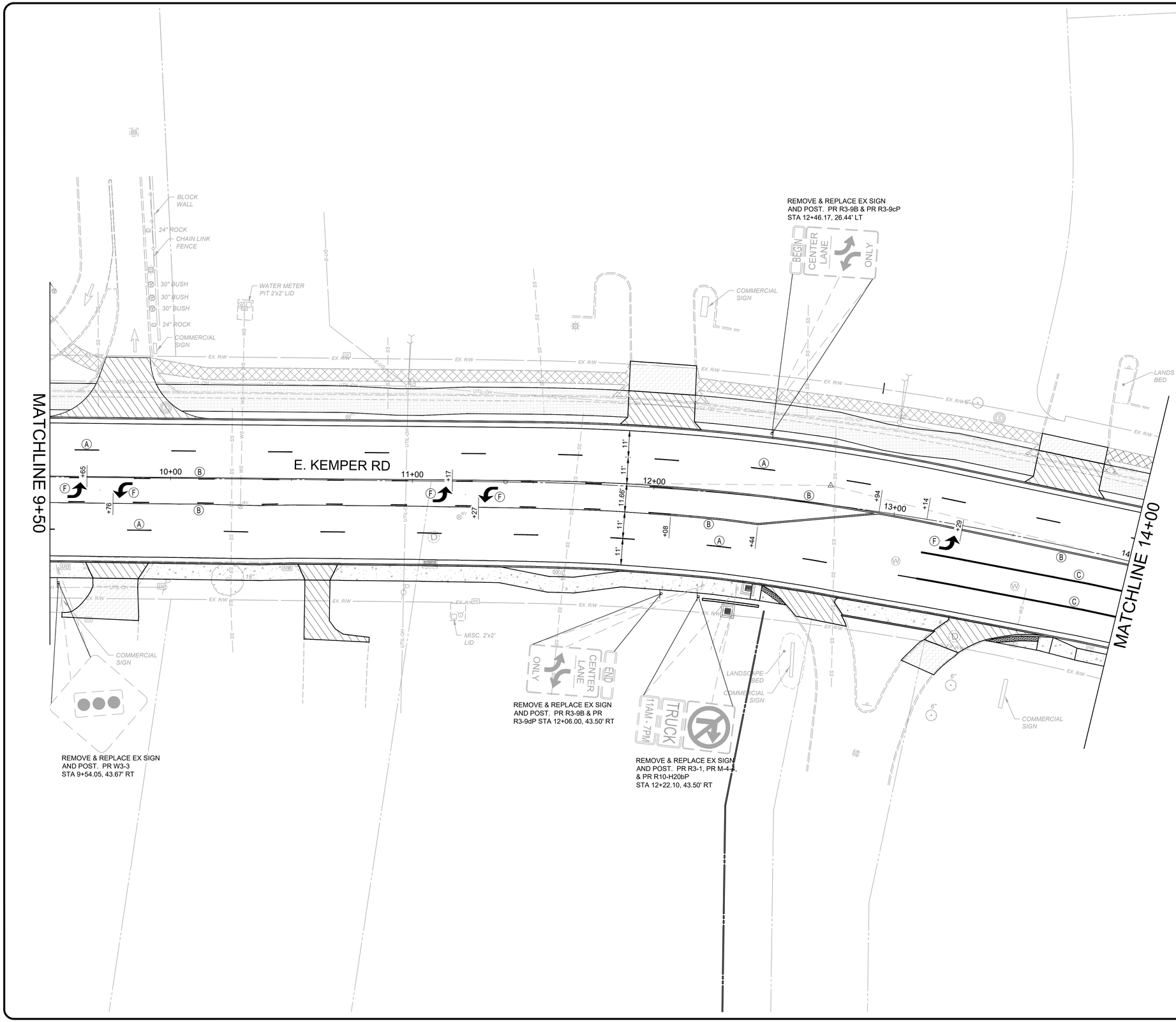
ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: XX"=XX'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRIG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC CONTROL PLAN 2

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME PM2
SHEET 32 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - PAVEMENT MARKINGS.DWG - PM2 - 2/4/2026 12:11:01 PM - PATRICK MADL



KEYNOTES

- (A) LANE LINE, 6"
- (B) CENTER LINE, 4"
- (C) CHANNELIZING LINE, 8"
- (D) STOP LINE, 24"
- (E) CROSSWALK LINE, 24" (ODOT SCD TC-74.10) (LAYOUT TO AVOID WHEEL PATH)
- (F) LANE ARROW
- (G) DOTTED LINE, 6" (2' LINE, 4' GAP)
- (H) TRANSVERSE LINE, 24"

NOTE: INSTALL RAISED PAVEMENT MARKERS WITHIN PROJECT LIMITS PER ODOT SCD TC-65.10 AND TC-65.11

ITEM 621 - RPM, AS PER PLAN
2-WAY BLUE/BLUE RPM'S AT FIRE HYDRANT LOCATION IN LANE LINE ON SAME SIDE AS FIRE HYDRANT (CITY)

NOTE:
REPLACE PAVEMENT MARKINGS IN KIND. PROVIDE TURN LANES WITH APPROPRIATE ARROWS, CHANNELIZATION MARKINGS, ETC. WITH APPROPRIATE ITEM 644 THERMOPLASTIC PAVEMENT MARKINGS.

WET PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE SUPPLEMENTARY SPECIFICATION 807: WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS, HOWEVER GROVING FOR THE WET REFLECTIVE PAVEMENT MARKINGS IS NOT REQUIRED.

NOTE:
ITEM 630 SIGN POST REFLECTOR SHALL BE ADDED TO ALL NEW SIGN POSTS, ACCORDING THE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTE:
ALL SIGNAGE LOCATED INSIDE THE CONCRETE ISLAND SHALL USE KLEEN BREAK 425 ASSEMBLE - SURFACE MOUNT (XKBSM42520-G)

verdantas

NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: 02/04/2026
SCALE: XX"=XX'
DESIGNED BY: PMAD
DRAWN BY: PMAD
CHECKED BY: SRNG

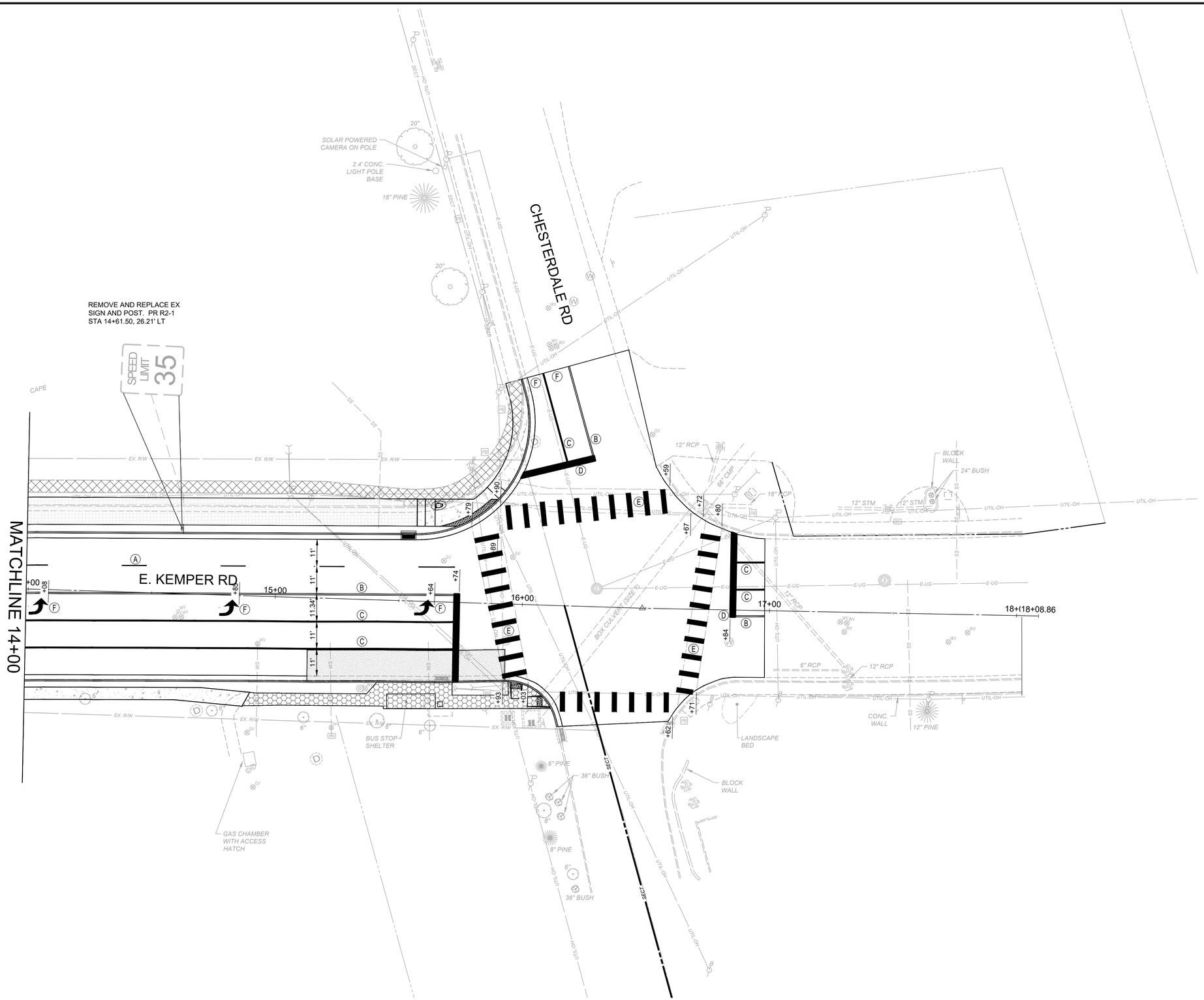
EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC CONTROL PLAN 3

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME PM3
SHEET 33 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - PAVEMENT MARKINGS.DWG - PM3 - 2/4/2026 12:11:01 PM - PATRICK MADL



KEYNOTES

- (A) LANE LINE, 6"
- (B) CENTER LINE, 4"
- (C) CHANNELIZING LINE, 8"
- (D) STOP LINE, 24"
- (E) CROSSWALK LINE, 24" (ODOT SCD TC-74.10) (LAYOUT TO AVOID WHEEL PATH)
- (F) LANE ARROW
- (G) DOTTED LINE, 6" (2' LINE, 4' GAP)
- (H) TRANSVERSE LINE, 24"

NOTE: INSTALL RAISED PAVEMENT MARKERS WITHIN PROJECT LIMITS PER ODOT SCD TC-65.10 AND TC-65.11

ITEM 621 - RPM, AS PER PLAN
2-WAY BLUE/BLUE RPM'S AT FIRE HYDRANT LOCATION IN LANE LINE ON SAME SIDE AS FIRE HYDRANT (CITY)

NOTE:
REPLACE PAVEMENT MARKINGS IN KIND. PROVIDE TURN LANES WITH APPROPRIATE ARROWS, CHANNELIZATION MARKINGS, ETC. WITH APPROPRIATE ITEM 644 THERMOPLASTIC PAVEMENT MARKINGS.

WET PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE SUPPLEMENTARY SPECIFICATION 807: WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS, HOWEVER GROVING FOR THE WET REFLECTIVE PAVEMENT MARKINGS IS NOT REQUIRED.

NOTE:
ITEM 630 SIGN POST REFLECTOR SHALL BE ADDED TO ALL NEW SIGN POSTS, ACCORDING THE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTE:
ALL SIGNAGE LOCATED INSIDE THE CONCRETE ISLAND SHALL USE KLEEN BREAK 425 ASSEMBLE - SURFACE MOUNT (XKBSM42520-G)

verdantas

NO	REVISION	DATE

ISSUED FOR:	BID
ISSUE DATE:	02/04/2026
SCALE:	XX"=XX'
DESIGNED BY:	PMAD
DRAWN BY:	PMAD
CHECKED BY:	SRNG

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC CONTROL PLAN 4

PROJECT NO. 242429
DISCIPLINE: CIVIL
SHEET NAME: PM4
SHEET 34 OF 47

H:\2024\SPRINGDALE\242429 - SPRINGDALE-E. KEMPER ROAD IMPROVEMENTS\CAD\DWG\SHEETS\C_242429 - PAVEMENT MARKINGS.DWG - PMM - 2/4/2026 12:11:01 PM - PATRICK MADL

SIGNAL ACTIVATION

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP-AND-GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC). IF THERE ARE CONSTRUCTABILITY ISSUES (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER. THE CITY TRAFFIC ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO COMPLETION.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL DESIGNATED DISTRICT TRAFFIC PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT AFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND REINSPECTED BY CITY TRAFFIC PERSONNEL PRIOR TO FINAL ACCEPTANCE. CITY FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

DETECTION MAINTENANCE

IF VEHICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, REQUIRES MODIFICATION, OR IS SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER.

IF THE LOSS OF VEHICLE DETECTION IS KNOWN PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. AT SUCH TIME, THE CITY TRAFFIC ENGINEER SHALL ADVISE THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE ACTION TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE PLACING THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL, MODIFYING THE MINIMUM GREEN TIMES, AND REMOVING THE MALFUNCTIONING DETECTION FROM SERVICE. WHERE NON-INTRUSIVE DETECTION (I.E. VIDEO, RADAR) ALREADY EXISTS, THE CONTRACTOR SHALL INSURE THAT DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. THIS IS TO AVOID THE SIGNAL FROM MAXING OUT THE AFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS.

LOCATIONS WHERE NON-INTRUSIVE DETECTION IS PROPOSED AND THE EXISTING VEHICLE DETECTION IS TO BE ABANDONED, THE NON-INTRUSIVE VEHICLE DETECTION SHALL BE INSTALLED, CONFIGURED AND MADE FULLY FUNCTIONAL PRIOR TO THE EXISTING DETECTION BEING DISABLED. THE CONTRACTOR SHALL CONTINUE TO MAINTAIN AND MODIFY THE DETECTION UNTIL FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL. THIS IS TO ENSURE VEHICLE DETECTION REMAINS FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER AND CITY TRAFFIC ENGINEER WITH 72-HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY.

EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

GUARANTEE (CONT.)

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLER, CABINET, UNINTERRUPTIBLE POWER SUPPLY, VEHICLE DETECTION EQUIPMENT, LED LAMP UNITS, NETWORK AND COMMUNICATION/INTERCONNECT EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE 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.

   A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.

   B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.

   C. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.

   D. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.

   E. IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.

   F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

2. CONDUITS.
   A. THE 725.04 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 OR COMPRESSION TYPE BUSHINGS MAY BE USED.

   B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE 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.

GROUNDING AND BONDING (CONT.)

3. WIRE FOR GROUNDING AND BONDING.
   A. USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR 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. USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.

      iii. USE A MINIMUM 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.

      iv. 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 WIRE 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.

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. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

NO.	COLOR	VEHICLE SIGNAL	PEDESTRIAN SIGNAL
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIPMENT GROUND	EQUIPMENT GROUND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	WHITE/BLACK	STRIPE YELLOW ARROW	NOT USED

6. POWER SERVICE AND DISCONNECT SWITCH.
   A. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.

GROUNDING AND BONDING (CONT.)

   B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.

   i. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.

   ii. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.

7. PAYMENT – ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

625, BRACKET ARM, (BY TYPE), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 625 "BRACKET ARM, (BY TYPE), AS PER PLAN", BRACKET ARMS SHALL HAVE A POWDER COAT BLACK FINISH. ALL ARMS SHALL HAVE THE ANGLE OF RISE NECESSARY TO ACHIEVE A LUMINAIRE HEIGHT OF 36'.

625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED) 120V, TYPE III DISTRIBUTION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 625 "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED) 120V, TYPE III DISTRIBUTION", LUMINAIRE HOUSING SHALL BE BLACK IN COLOR.

625, SIGN HANGER ASSEMBLY, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 625 "SIGN HANGER ASSEMBLY", THE SIGN HANGER ASSEMBLY SHALL BE BLACK IN COLOR.

625, SIGN ATTACHMENT ASSEMBLY, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 625 "SIGN ATTACHMENT ASSEMBLY", THE ATTACHMENT ASSEMBLY SHALL BE BLACK IN COLOR.

632, POWER SERVICE, AS PER PLAN

CONSTRUCT A COMPLETE AND OPERATIONAL METERED POWER SERVICE IN ACCORDANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE OHIO ELECTRIC CODE, DUKE ENERGY AND ODOT SCD HL-40.20. ALL NECESSARY MATERIAL AND LABOR, INCLUDING BUT NOT LIMITED TO ELECTRIC METER, RISER, AND HOUSING, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS ITEM.

TEC Engineering, Inc.
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL NOTES

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSN
SHEET 35 OF 47

632, SIGNAL SUPPORT FOUNDATION

PRIOR TO ORDERING THE SIGNAL SUPPORTS, THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD. THEN, THE CONTRACTOR SHALL MEET THE PROJECT ENGINEER TO LOCATE THE PROPOSED SUPPORT LOCATIONS TO ENSURE THERE ARE NO CONFLICTS WITH UTILITIES. IF THERE ARE ISSUES, THE PROJECT ENGINEER SHALL PROVIDE GUIDANCE AS TO THE RELOCATION OF THE SUPPORTS.

DUE TO THE FURTHER POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATION FOR THIS ITEM, AND CONSEQUENTLY, THE DESIGN OF THE SUPPORT AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THE ITEM UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED, AT FINAL GRADE, AND THE CONTRACTOR HAS RECEIVED, FROM ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THE ITEM.

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MAINTAINING AGENCY, WHO WILL DETERMINE THE REVISED LOCATION AND IF NEEDED, THE SUPPORT DESIGN. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN. THE ENGINEER WILL INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY AND AUTHORIZE THE CONTRACTOR TO ORDER THE SUPPORT.

THE CONTRACTOR SHALL, WHEN DEVELOPING THE PROGRESS SCHEDULE, AND THOSE OF SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME IN THE PROGRESS SCHEDULE FOR ORDERING, MANUFACTURING, DELIVERY, AND INSTALLATION OF THE SUPPORT ITEMS AFTER THE FOUNDATIONS ARE IN PLACE.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THE FOUNDATION OR SUPPORT ITEMS SHALL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THIS ITEM ARE REQUIRED, NO PAYMENT SHALL BE MADE FOR THE ITEMS MANUFACTURED TO THE ORIGINAL DESIGN.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED.

632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, SIGNAL SUPPORTS, CABINET(S), CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. UNLESS NOTED, POWER SERVICES SHALL BE REMOVED IN ACCORDANCE WITH C&MS 625.21.F. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY THE CITY OF SPRINGDALE IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

TO BE STORED: VEHICULAR SIGNALS, SIGNAL POLES, CABINET, PEDESTALS, PUSHBUTTONS, PEDESTRIAN SIGNAL HEADS, SIGNS

REMOVED ITEMS SHALL BE DELIVERED TO THE NEAREST CITY FACILITY WHOSE ADDRESS IS LISTED BELOW:

CITY OF SPRINGDALE, ATTN: CHRIS MILLER (513-346-5520)

335 NORTHLAND BOULEVARD, SPRINGDALE, OH 45246

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

632, PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THE FOLLOWING SHALL APPLY:

1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
4. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED
6. THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

PAYMENT FOR ITEM 632 PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

632, PEDESTRIAN PUSHBUTTON, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 "PEDESTRIAN PUSHBUTTON", THE PUSHBUTTON HOUSING SHALL BE YELLOW IN COLOR.

632, COMBINATION SIGNAL SUPPORT, (BY TYPE), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, FURNISH AND INSTALL SIGNAL POLES AS SPECIFIED IN THE PLANS.

ALL SIGNAL SUPPORTS SHALL BE POWDER COAT SEMI-GLOSS BLACK IN ACCORDANCE WITH ODOT SS 916.

PAYMENT FOR ITEM 632 "COMBINATION SIGNAL SUPPORT, (BY TYPE), AS PER PLAN" SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH COMPLETE AND IN PLACE AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

632, SIGNALIZATION, MISC.: VACUUM EXCAVATION OF FOUNDATION

THIS ITEM SHALL BE APPLIED AT THE DISCRETION OF THE ENGINEER AT FOUNDATIONS IN PROXIMITY TO UTILITIES. VACUUM EXCAVATION SHALL BE COMPLETED BY A QUALIFIED CONTRACTOR ONLY AT SPECIFIED FOUNDATIONS AT THE ENGINEER'S DISCRETION.

PAYMENT SHALL BE ON A CONTINGENCY BASIS AND INCLUDE ALL LABOR MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS REQUIRED TO FULLY EXCAVATE THE AREA AROUND A FOUNDATION.

A QUANTITY OF 1 FOUNDATION IS CARRIED TO THE GENERAL SUMMARY FOR USE AT THE ENGINEER'S DISCRETION.

632, PEDESTAL, 8' TRANSFORMER BASE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE ODOT C&MS, FURNISH AND INSTALL SIGNAL PEDESTALS AS SPECIFIED IN THE PLANS.

ALL PEDESTALS SHALL BE POWDER COAT SEMI-GLOSS BLACK IN ACCORDANCE WITH ODOT SS 916.

PAYMENT FOR ITEM 632 "PEDESTAL, 8' TRANSFORMER BASE, AS PER PLAN" SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH COMPLETE AND IN PLACE AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

633, UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 633 AND 733, POLE ATTACHMENT HARDWARE WILL BE INCLUDED FOR POLE-MOUNTED CABINETS, AND A CABINET RISER (8-INCH MINIMUM) AND ANCHOR BOLTS WILL BE PROVIDED FOR BASE-MOUNTED CABINETS. BEFORE PERFORMING THE WORK, THE CONTRACTOR, THE DISTRICT TRAFFIC ENGINEER AND THE PROJECT ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE LOCATION OF THE UPS CABINET AND FOUNDATION.

THE UPS CABINET SHALL INCLUDE A GENERATOR POWER PANEL WITH A HEAVY-DUTY POWER RELAY VERSUS THE LINE VOLTAGE GENERATOR SWITCH. THE GENERATOR INLET SHALL BE A RECESSED PANEL WITH A DOOR THAT IS FLUSH WITH THE EXTERNAL SIDE OF THE UPS CABINET. IT SHALL INCLUDE A RECESSED PLUG, AUTOMATIC TRANSFER SWITCH AND A DOOR THAT SECURELY CLOSES OVER THE POWER CORD.

THE CABINET SHALL HAVE A DOOR STOP MECHANISM AND THERMOSTATICALLY CONTROLLED FAN. ADDITIONALLY, THE CABINET SHALL BE BUILT WITH ALL BATTERIES ALWAYS BELOW THE INVERTER TO AVOID POTENTIAL FURTHER BATTERY LEAKAGE ISSUES.

THE CABINET SHALL INCLUDE A BATTERY BALANCING DEVICE THAT REGULATES THE BATTERIES AND OPTIMIZES PERFORMANCE.

THE UPS SHALL BE AN ALPHA PRODUCT AND ALL COMPONENTS OF THE UPS SHALL BE MANUFACTURED BY ALPHA. THE UPS FURNISHED SHALL BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

AFTER FOUR (4) HOURS OF BATTERY RUNTIME, THE SYSTEM SHALL BE PROGRAMMED TO SWITCH THE INTERSECTION FROM FULL OPERATION TO CONTROLLER AUTOMATIC FLASH OPERATION THROUGH THE MONITOR. THE CONTROLLER SHALL BE PROGRAMMED SO THAT FLASH OPERATION SHALL BEGIN ONCE THE INTERSECTION RUNS MINOR STREET GREEN (TYP. PH. 4 &8), ALL-RED CLEARANCE, AND THEN FLASH OPERATION.

THE UPS OUTPUT NOTIFICATIONS FOR ON BATTERY, BATTERY 2-HOUR TIMER, AND LOW BATTERY SHALL BE WIRED INTO THE TRAFFIC SIGNAL CABINET BACK PANEL OR THROUGH THE CONTROLLER WITH A C11 TO PROVIDE SPECIAL STATUS ALARMS FOR EACH OUTPUT INTO THE SIGNAL CONTROLLER.

THIS ITEM SHALL INCLUDE A RED LED STATUS INDICATOR LAMP TO ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. THE LED HOUSING SHALL BE NEMA 4X, IP65 OR IP66, RATED FOR OUTDOOR USE AND BE TAMPER/ SHATTER RESISTANT. IT SHALL BE A DOMED ENCLOSURE CONTAINING A RED LENS WITH LED THAT IS VISIBLE FROM 100 FOOT MINIMUM. THE ENCLOSURE AND LED MODULE SHOULD BE PLACED ON THE SIDE OF THE UPS CABINET FACING TOWARDS THE MAINLINE ROADWAY AND SEALED FROM WATER INTRUSION. IT SHOULD BE WIRED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY," WITH WIRE POLARITY INDICATED. THE RED LED SHALL ONLY ILLUMINATE TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THESE STATUS DISPLAYS WILL BE SOLID 100% DUTY CYCLE (NOT FLASHING) DISPLAYS. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC UNLESS OTHERWISE INDICATED.

633, CABINET, TYPE TS-2, AS PER PLAN

THE CABINET SHALL BE FURNISHED AND INSTALLED ACCORDING TO CMS 633 AND 733 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS LIST (TAP).

THE GROUND-MOUNTED CABINET SHALL BE A NEMA TS-2, TYPE 1, CABINET SIZE 7 WITH 16 LOAD SWITCH BAYS, LED UNDER-SHELF LIGHTING, POWER HARNESSES FOR BOTH TS2 TYPE 1 AND TYPE 2 CONTROLLERS AND SHALL HAVE A MINIMUM OF THREE SHELVES.

EACH CABINET SHALL COME EQUIPPED WITH TWO 16-CHANNEL CABINET DETECTOR RACKS (CDR) INCLUDING BUS INTERFACE UNITS (BIU). THE LOOP DETECTOR TERMINATION PANEL FOR THE SECOND DETECTOR RACK SHALL BE OMITTED.

THE CABINET SHALL BE FURNISHED WITH AN EDI MMU AS ALLOWED ON THE TAP/APPROVED PRODUCTS LIST.

PAYMENT FOR ITEM 633 CABINET, TYPE TS-2, AS PER PLAN WILL BE AT THE CONTRACT BID PRICE PER EACH COMPLETE AND IN PLACE INCLUDING ALL CONNECTIONS TESTED AND ACCEPTED.

809, ATC CONTROLLER, AS PER PLAN

THE CONTROLLER UNIT SHALL BE FURNISHED AND INSTALLED PER SS 809 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

THE CONTROLLER SHALL BE AN ECONOLITE COBALT AND COMPATIBLE WITH THE CABINET TYPE BEING INSTALLED.

809, STOP LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX RADAR DETECTION UNIT FROM THE ODOT TRAFFIC APPROVED PRODUCTS LIST. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL NOTES 2

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSN2
SHEET 36 OF 47

633, CONTROLLER ITEM, MISC.: MANAGED ETHERNET SWITCH WITH GIGABIT UPLINK PORTS

THE FIBER OPTIC SWITCH SHALL INTERFACE TO SINGLE-MODE FIBER OPTIC CABLE WITH AN OPTICAL WAVELENGTH OF 1310 NM USING SC CONNECTOR. IT SHALL BE CAPABLE OF OPERATING OVER A DISTANCE OF AT LEAST 10KM WITH AN OPTICAL POWER BUDGE OF 17 DB. THE UNIT SHALL BE CAPABLE OF OPERATING IN A FAULT TOLERANT FIBER OPTIC LOOP.

PROVIDE A TRANSCEIVER THAT IS FULLY COMPLIANT WITH IEEE 802.3, 802.3U & 802.3Z. THE TRANSCEIVER SHALL PROVIDE FULL-DUPLEX OPERATION AND FLOW CONTROL.

PROVIDE A SIMPLE INTUITIVE USER INTERFACE FOR CONFIGURATION AND MONITORING OF THE TRANSCEIVER VIA STANDARD HTML GRAPHICAL WEB BROWSER, INCLUDING DETAILED ON-LINE HELP. EVENT LOGGING AND RECORDING SHALL BE INCLUDED. ALL SIGNIFICANT EVENTS SHALL BE SORTED IN A NON-VOLATILE SYSTEM LOG.

THE OPTICAL ETHERNET SWITCH SHALL CONNECT TO ALL ETHERNET DEVICES IN THE CONTROLLER CABINET INCLUDING THE CONTROLLER,RADAR DETECTION COMMUNICATIONS INTERFACE PANEL AND VIDEO SERVERS (IF APPLICABLE), AND ANY OTHER ETHERNET DEVICES USING PROPERLY RATED CAT5 CABLE CONNECTORS.

IN ADDITION TO ODOT SS809 AND 909, THIS WORK SHALL INCLUDE ALL TIME, LABOR, MATERIAL TO SET UP CAMERAS AND COMPLETE ANY NECESSARY WORK (NETWORKING, ETC.) TO MAKE THE SWITCHES REMOTELY ACCESSIBLE OVER THE SPRINGDALE TRAFFIC SIGNAL FIBER OPTIC NETWORK.

THE COST FOR THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO ASSEMBLE A FUNCTIONAL FIBER OPTIC ETHERNET SYSTEM INCLUDING CONNECTIONS, TESTED AND ACCEPTED.

804, FIBER OPTIC CABLE, MISC.: MODIFY EXISTING SPLICE ENCLOSURE

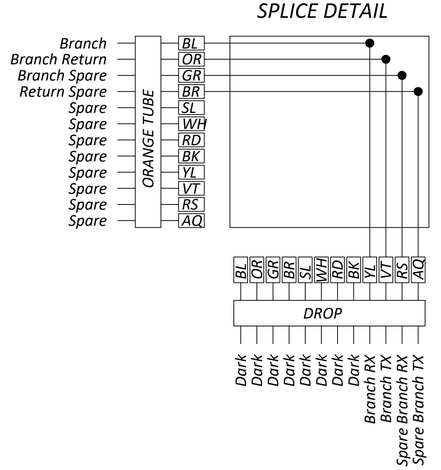
THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO MODIFY THE EXISTING AERIAL SPLICE ENCLOSURE. THIS MODIFICATION SHALL INCLUDE THE SPLICING OF NEW 12-FIBER DROP CABLE (PROVIDED SEPARATELY) TO THE EXISTING TRUNK LINE WITHIN THE EXISTING ENCLOSURE. EXISTING DROP CABLE IS TO BE DISCONNECTED AND REMOVED AS PART OF THIS ITEM. A SPLICE DIAGRAM OF EXPECTED CONDITIONS IS PROVIDED HEREIN.

809, CCTV IP-CAMERA SYSTEM, PTZ, AS PER PLAN

THIS ITEM SHALL CONFORM TO THE STANDARDS OF ITEM 809 "CCTV IP-CAMERA SYSTEM, PTZ" WITH THE ADDITION THAT THE CAMERA MANUFACTURER SHALL BE BOSCH.

PAYMENT FOR ITEM 809 "CCTV IP CAMERA SYSTEM, PTZ, AS PER PLAN" SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

LAST SINGLE RING DROP SPLICE DETAIL



TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL NOTES 3

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSN3
SHEET 37 OF 47

I:\10.1.1.4\PROJECTS\2024 PROJECTS\242449 VERDANTA\002 EAST KEMPER RD\DRAWING\KEMPER & CENTURY CP001.DWG - GN003 - 1/16/2026 11:32:48 AM - ANDREW SANT

PEDESTAL, PS-1
PULL BOX B-1
16' CONDUIT, 2" 725.051
8' CONDUIT, 4" 725.051
SIGNAL SUPPORT SP-1 W/PTZ CAMERA RADAR: RD1
130' CONDUIT, 4" 725.052, JACKED OR DRILLED
SIGNAL SUPPORT SP-2, W/ POLE MOUNTED DISCONNECT RADAR: RD2
132' CONDUIT, 4" 725.052, JACKED OR DRILLED
POWER CABLE, 45' AERIAL
12' CONDUIT, 4" 725.051
CABINET & CONTROLLER, TYPE TS-2 STA. 2+79.5, 58.7'
2X 8' CONDUIT, 4" 725.051
PULL BOX B-3
16' CONDUIT, 2" 725.051
EX. POWER SERVICE & PROP. FIBER DROP W/ RISER
PULL BOX B-2
11' CONDUIT, 2" 725.051
PEDESTAL, PS-2
2X 23' CONDUIT, 4" 725.051
116' CONDUIT, 4" 725.052, JACKED OR DRILLED
PEDESTAL, PS-3
113' CONDUIT, 4" 725.052, JACKED OR DRILLED
14' CONDUIT, 2" 725.051
SIGNAL SUPPORT SP-3 RADAR: R3
7' CONDUIT, 4" 725.051
PULL BOX B-4
PULL BOX B-5
6' CONDUIT, 4" 725.051
SIGNAL SUPPORT SP-4 RADAR: R4
RDZ1A RDZ1B RDZ3A RDZ3B RDZ3C RDZ3D RDZ4A RDZ4B RDZ4C RDZ4D RDZ5A RDZ5B
1+00 2+00 3+00
SN1 SN2 SN3 SN4 SN5 SN6 SN7 SN8 SN9 SN10 SN11 SN12 SN13 SN14 SN15
1A 1B 2A 2B 2C 3A 3B 3C 3D 4A 4B 4C 4D 4E 5A 5B 5C 6A 6B
PB2A PH2A PB3A PH3A PB PH2B PB2B PH6A PB6A PH3B PB3B PB6B PH6B
HORIZONTAL SCALE IN FEET 0 5 10 20

PROPOSED SIGNAL HEADS

3A, 4A, 6A

1A, 1B, 3C, 3D, 4C, 4D, 4E, 5A, 5B, 5C

2A, 2B, 2C, 3B, 4B, 6B

PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)

PH2A, PH2B, PH3A, PH3B, PH6A,PH6B

PROPOSED SIGNS

SERIES B LETTERING 12" CAPITAL LETTERS 18"X84"
E. Kemper Rd
SN6, SN8

SERIES B LETTERING 12" CAPITAL LETTERS 18"X96"
Century Blvd
SN12

Century Blvd
SN13

SERIES B LETTERING 12" CAPITAL LETTERS 18"X96"
Commons Dr
SN3

Commons Dr
SN4

ONLY
R3-5L-30
SN2, SN15

LEFT TURN SIGNAL
R10-10L-30
SN1, SN5, SN9, SN10, SN14

R9-3-24
SN7, SN11

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAD, ARROW, 12"		
TRAFFIC SIGNAL, 5 OR 4 UNIT HEAD, ARROW, 12"		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		
BRACKET ARM & LUMINAIRE		
SIGNAL SUPPORT POLE		
PEDESTAL SUPPORT		
TRAFFIC PULL BOX		
CCTV, PTZ CAMERA		
CONTROLLER CABINET AND WORK PAD (TS-2)		
STOP BAR RADAR DETECTION UNIT		
DETECTION ZONE		

PULL BOX TABLE

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
B1	1+33.1	LEFT	47.8	24
B2	2+64.5	LEFT	53.4	24
B3	2+86.9	LEFT	56.6	24
B4	1+55.1	RIGHT	80.7	24
B5	2+66.4	RIGHT	62.9	24

TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE: 1:10
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1

CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL PLANS

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSPL
SHEET 38 OF 47

I:\10.1.1.4\PROJECTS\2024 PROJECTS\242439-VERDANTA\002 EAST KEMPER RD\DRAWING\KEMPER & CENTURY CP001.DWG - CP001 - 1/16/2026 11:32:48 AM - ANDREW SANT

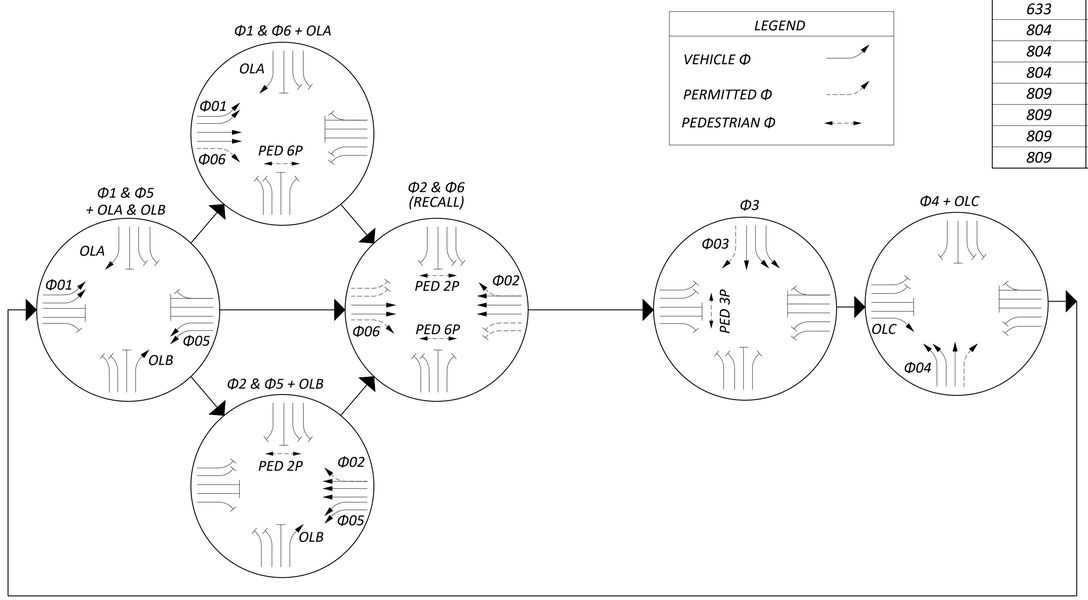
SIGNAL TIMING CHART

INTERSECTION: KEMPER ROAD & CENTURY BOULEVARD/COMMONS DRIVE
MAINTAINING AGENCY: CITY OF SPRINGDALE

START UP								
START IN: ALL-RED FLASH	DUAL ENTRY: YES		PHASES:			2 & 6		
TIME FOR: FLASH , ALL RED (SEC.): 9, 6	REST IN RED:		RING 1	-		RING 2	-	
FIRST PHASE(S): 2	OVERLAP			A	B	C	D	
COLOR DISPLAYED: GREEN	PHASES			5	1	3	4	
INTERVAL OR FEATURE	CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)	1	2	3	4	5	6	7	8
DIRECTION	EBLT	WB	SB	NB	WBLT	EB	-	-
MINIMUM GREEN (INITIAL) (SEC.)	5	15	15	7	5	15	-	-
ADDED INITIAL *(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL *(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP) (SEC.)	3	-	3.5	3	3	-	-	-
TIME BEFORE REDUCTION *(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP *(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE *(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I (SEC.)	10	30	15	15	10	30	-	-
MAXIMUM GREEN II (SEC.)	40	40	40	40	40	40	-	-
YELLOW CHANGE (SEC.)	3.2	4.1	3.4	3.4	3.2	4.1	-	-
ALL RED CLEARANCE (SEC.)	4.4	1.4	2.5	2.5	4.4	1.4	-	-
DELAYED GREEN (LPI)^ (SEC.)	-	-	-	-	-	-	-	-
FLASHING YELLOW ARROW DELAY^ (SEC.)	-	-	-	-	-	-	-	-
WALK (SEC.)	-	11	12	-	-	10	-	-
PEDESTRIAN CLEARANCE (SEC.)	-	28	35	-	-	26	-	-
RECALL MAXIMUM (ON/OFF)	-	-	-	-	-	-	-	-
RECALL MINIMUM (ON/OFF)	-	ON	-	-	-	ON	-	-
RECALL PEDESTRIAN (ON/OFF)	-	-	-	-	-	-	-	-
MEMORY (ON/OFF)	-	ON	-	-	-	ON	-	-

*VOLUME DENSITY CONTROLS

PHASING DIAGRAM



ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION
625	00450	4	EACH	CONNECTION, FUSED PULL APART
625	00460	8	EACH	CONNECTION, UNFUSED PULL APART
625	00480	4	EACH	CONNECTION, UNFUSED PERMANENT
625	18201	1	EACH	BRACKET ARM, 15', AS PER PLAN
625	18501	2	EACH	BRACKET ARM, 25', AS PER PLAN
625	18511	1	EACH	BRACKET ARM, 30', AS PER PLAN
625	23304	1473	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
625	23400	645	FT	NO. 10 AWG POLE & BRACKET CABLE
625	25410	57	FT	CONDUIT, 2", 725.052
625	25606	95	FT	CONDUIT, 4", 725.052
625	25908	491	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"
625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED) 120V, TYPE III DISTRIBUTION, AS PER PLAN
625	29002	121	FT	TRENCH, 24" DEEP
625	30706	5	EACH	PULL BOX, 725.08, 24"
625	32000	8	EACH	GROUND ROD
630	79101	13	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	79201	2	EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM, AS PER PLAN
630	80100	129.5	SF	SIGN, FLAT SHEET
632	05006	16	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK
632	05086	3	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK
632	20731	6	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN, BLACK
632	26001	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	25010	19	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	25010	6	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	40500	1398	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	40700	3253	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION
632	64020	3	EACH	PEDESTAL FOUNDATION
632	65300	1368	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG
632	66102	127	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	70400	1	EACH	CONDUIT RISER, 2" DIAMETER
632	79150	4	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN
632	89901	3	EACH	PEDESTAL, 8' TRANSFORMER BASE, AS PER PLAN
632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
804	32040	119	FT	DROP CABLE, 12 FIBER
804	34012	1	EACH	FIBER TERMINATION PANEL, 12 FIBER
804	98100	1	EACH	FIBER OPTIC CABLE, MISC.: MODIFY EXISTING SPLICE ENCLOSURE
809	60001	1	EACH	CCTV IP-CAMERA SYSTEM, PTZ, AS PER PLAN
809	65990	1	EACH	ITS DEVICE, MISC.: ETHERNET SWITCH WITH GIGABIT UPLINK
809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN
809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN

RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	DETECTOR NO.	PURPOSE	DETECTION ZONE LENGTH (FT)
RDZ1A	EBLT	PRESENCE	Φ1			RD1	STOP LINE	30'
RDZ1B	EBLT	PRESENCE	Φ1			RD1	STOP LINE	30'
RDZ3A	SBTR	PRESENCE	Φ3			RD2	STOP LINE	30'
RDZ3B	SBT	PRESENCE	Φ3			RD2	STOP LINE	30'
RDZ3C	SBLT	PRESENCE	Φ3			RD2	STOP LINE	30'
RDZ3D	SBLT	PRESENCE	Φ3			RD2	STOP LINE	30'
RDZ4A	NBTR	PRESENCE	Φ4			RD3	STOP LINE	30'
RDZ4B	NBT	PRESENCE	Φ4			RD3	STOP LINE	30'
RDZ4C	NBLT	PRESENCE	Φ4			RD3	STOP LINE	30'
RDZ4D	NBLT	PRESENCE	Φ4			RD3	STOP LINE	30'
RDZ5A	WBLT	PRESENCE	Φ5			RD4	STOP LINE	30'
RDZ5B	WBLT	PRESENCE	Φ5			RD4	STOP LINE	30'

TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL DETAILS

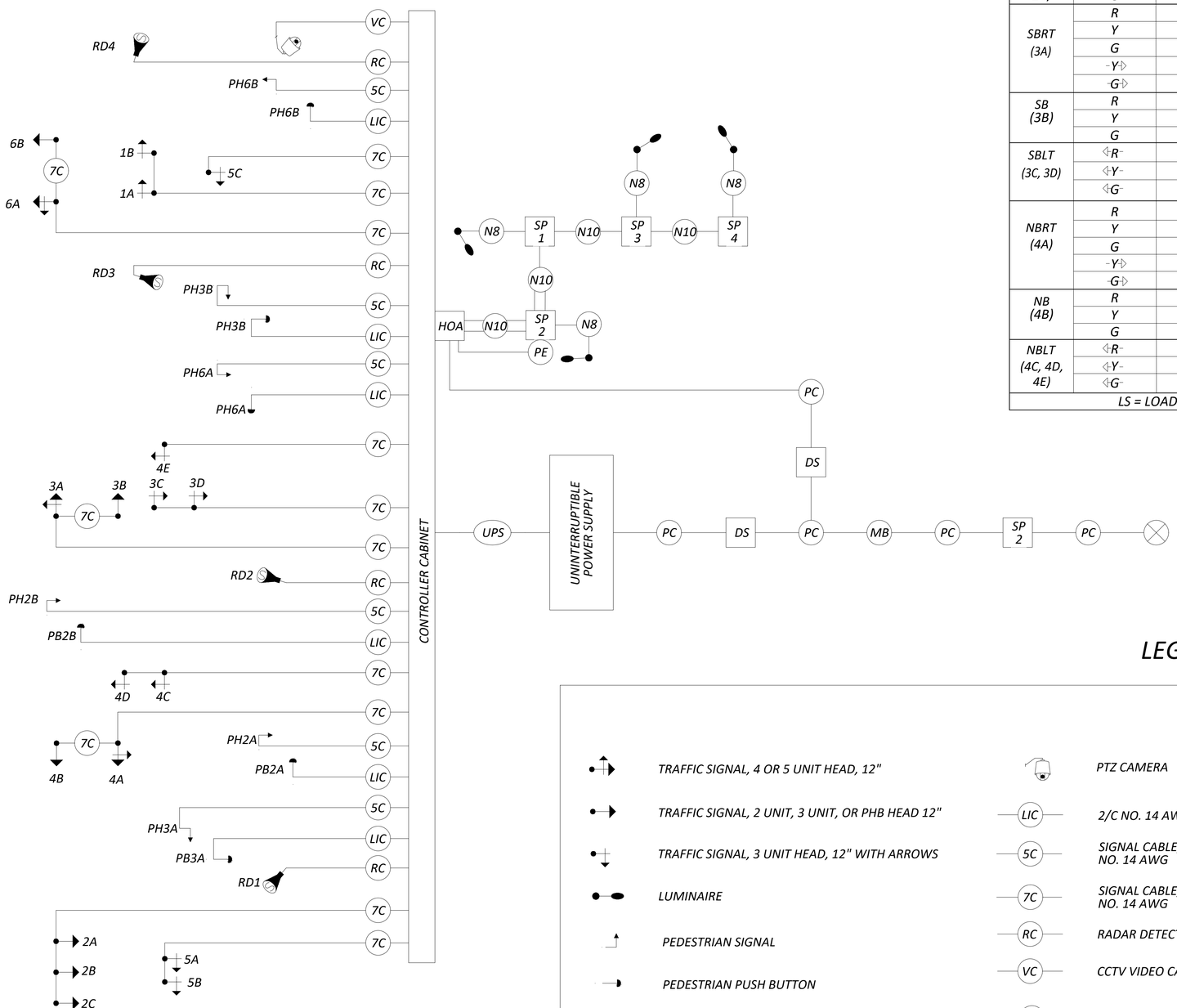
PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSD1
SHEET 39 OF 47

FIELD WIRING HOOKUP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
EBLT (1A, 1B)	R	ϕ1 R	R
	Y	ϕ1 Y	
	G	ϕ1 G	
WB (2A, 2B, 2C)	R	ϕ2 R	R
	Y	ϕ2 Y	
	G	ϕ2 G	
SBRT (3A)	R	ϕ3 R	R
	Y	ϕ3 Y	
	G	ϕ3 G	
	Y	OLA Y	
	G	OLA G	
SB (3B)	R	ϕ3 R	R
	Y	ϕ3 Y	
	G	ϕ3 G	
SBLT (3C, 3D)	R	ϕ3 R	R
	Y	ϕ3 Y	
	G	ϕ3 G	
NBRT (4A)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
	Y	OLB Y	
	G	OLB G	
NB (4B)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
NBLT (4C, 4D, 4E)	R	ϕ4 R	R
	Y	ϕ4 Y	
	G	ϕ4 G	
LS = LOAD SWITCH			

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
WBLT (5A, 5B, 5C)	R	ϕ5 R	R
	Y	ϕ5 Y	
	G	ϕ5 G	
EBRT (6A)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
	Y	OLD Y	
	G	OLD G	
EB (6B, 6C)	R	ϕ6 R	R
	Y	ϕ6 Y	
	G	ϕ6 G	
PEDESTRIAN MOVEMENTS			
(PH2A, PH2B)	W	ϕ2 G/LS 9 G	OUT
	DW	ϕ2 R/LS 9 R	
(PH3A, PH3B)	W	ϕ3 G/LS 10 G	OUT
	DW	ϕ3 R/LS 10 R	
(PH6A, PH6B)	W	ϕ4 G/LS 11 G	OUT
	DW	ϕ4 R/LS 11 R	
OVERLAPS			
OLA (3A)	Y	ϕ1 Y	R
	G	ϕ1 G	
OLB (4A)	Y	ϕ5 Y	R
	G	ϕ5 G	
OLC (6A)	Y	ϕ3 Y	R
	G	ϕ3 G	

WIRING DIAGRAM



LEGEND

- TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"
- TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD 12"
- TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS
- LUMINAIRE
- PEDESTRIAN SIGNAL
- PEDESTRIAN PUSH BUTTON
- STOP LINE RADAR DETECTION UNIT
- PTZ CAMERA
- LIC — 2/C NO. 14 AWG (LEAD-IN CABLE)
- 5C — SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
- 7C — SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
- RC — RADAR DETECTION CABLE
- VC — CCTV VIDEO CABLE
- POWER SOURCE
- HOA — HAND/ OFF/ AUTO SWITCH
- PE — PHOTOELECTRIC CELL
- N8 — NO. 8 AWG DISTRIBUTION CABLE
- N10 — NO. 10 AWG POLE AND BRACKET CABLE
- PC — POWER CABLE, 2 CONDUCTOR, NO. 10 AWG
- SP 1 — SIGNAL SUPPORT POLE NO. __
- MB — METER BASE
- DS — SEPARATE LIGHTING & SIGNAL DISCONNECT SWITCHES
- UPS — UNINTERRUPTIBLE POWER SUPPLY CABLE

TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

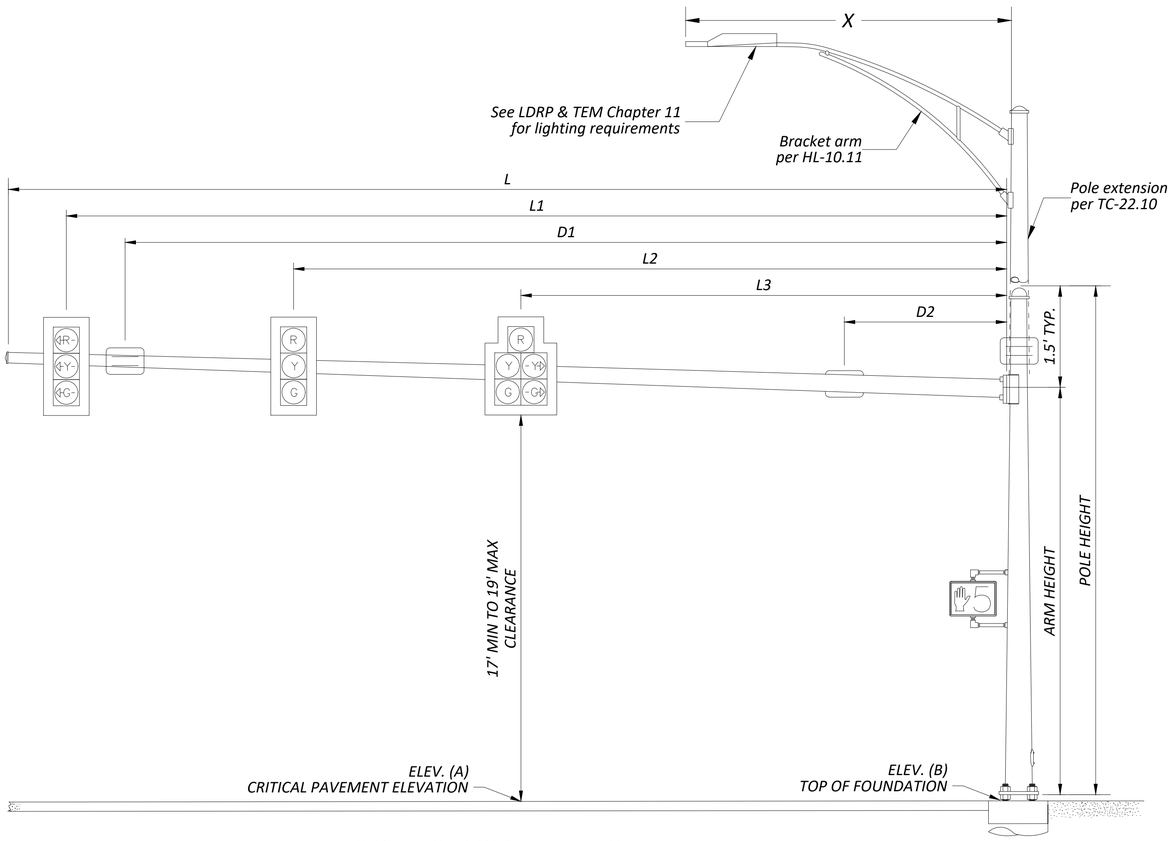
ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

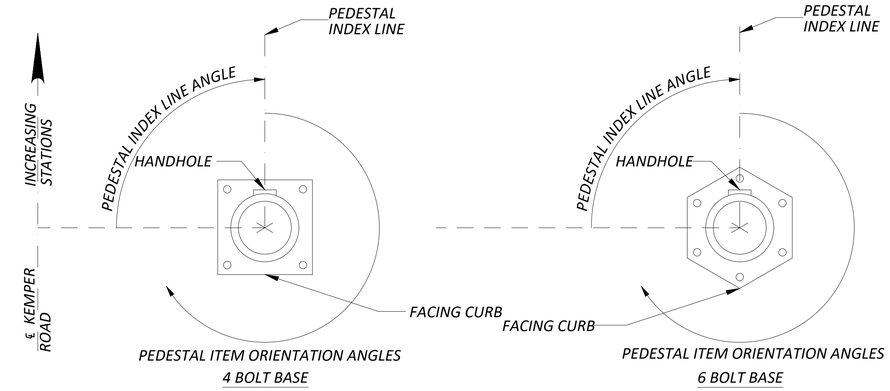
TRAFFIC SIGNAL DETAILS 2

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME DSD2
SHEET 40 OF 47

\\10.1.1.4\PROJECTS\2024 PROJECTS\24349 VERDANTAS\002 EAST KEMPER RD\DRAWING\KEMPER & CENTURY CP001.DWG - CD002 - 1/16/2026 11:32:48 AM - ANDREW SANT

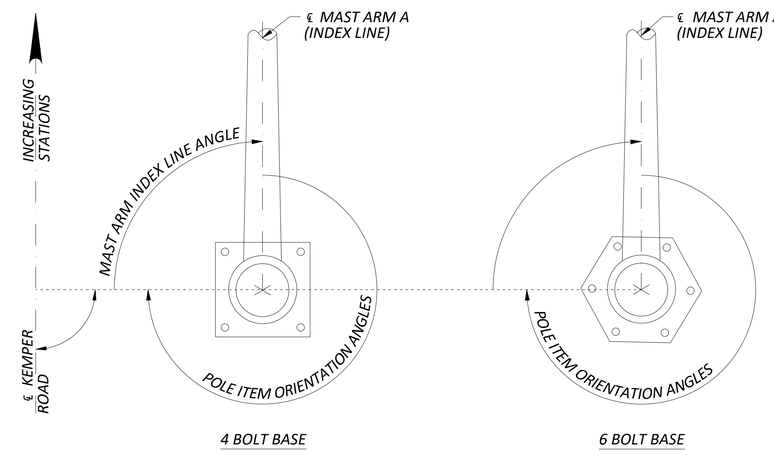


SIGNAL SUPPORT ELEVATION
(TYPICAL)



Note:
1. All angles are measured clockwise.
2. The index line goes through the center of the pedestal handhole
3. The pedestal handhole is typically 180° from the face of curb

PEDESTAL ORIENTATION



Note:
1. All angles are measured clockwise.
2. Base plate is oriented square to Mast Arm A, even if the support has two arms.

POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	ARM DESIGNATION	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS														MAST ARM A INDEX LINE ANGLE	ANGLES (DEG.) FROM INDEX LINE							
				A (Pavement Elevation)	B (Top of Foundation)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	L6	L7	L8	X		MAST ARM B	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP OF POLE EXTENSION
								FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	-	1+25.0	47.0 L	709.78	709.45	TC-81.22	14	25	20	64	61	56	52	51	38	27	15	6	25	0	-	-	-	-	-	315	180	-
SP-2	-	2+59.4	64.7 L	706.46	706.05	TC-81.22	14	35	20	66	63	59	52	44	36	9	-	-	15	90	-	-	-	180	-	0	180	-
SP-3	-	1+48.7	79.8 R	712.03	712.20	TC-81.22	14	35	20	60	57	57	52	52	47	35	23	13	25	90	-	0	0	-	-	315	180	-
SP-4	-	2+62.6	66.9 R	706.79	709.05	TC-81.22	14	32	17	66	63	63	58	58	52	35	24	13	25	0	-	0	0	-	-	315	180	-
PS-1	-	1+46.9	53.6 L	-	708.12	TC-83.20	-	8	-	-	-	-	-	-	-	-	-	-	-	180	-	0/90	0/90	-	-	-	-	-
PS-2	-	2+75.6	52.3 L	-	705.21	TC-83.20	-	8	-	-	-	-	-	-	-	-	-	-	-	180	-	180	180	-	-	-	-	-
PS-3	-	1+47.2	69.2 R	-	711.64	TC-83.20	-	8	-	-	-	-	-	-	-	-	-	-	-	265	-	295	295	-	-	-	-	-

TEC Engineering,Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

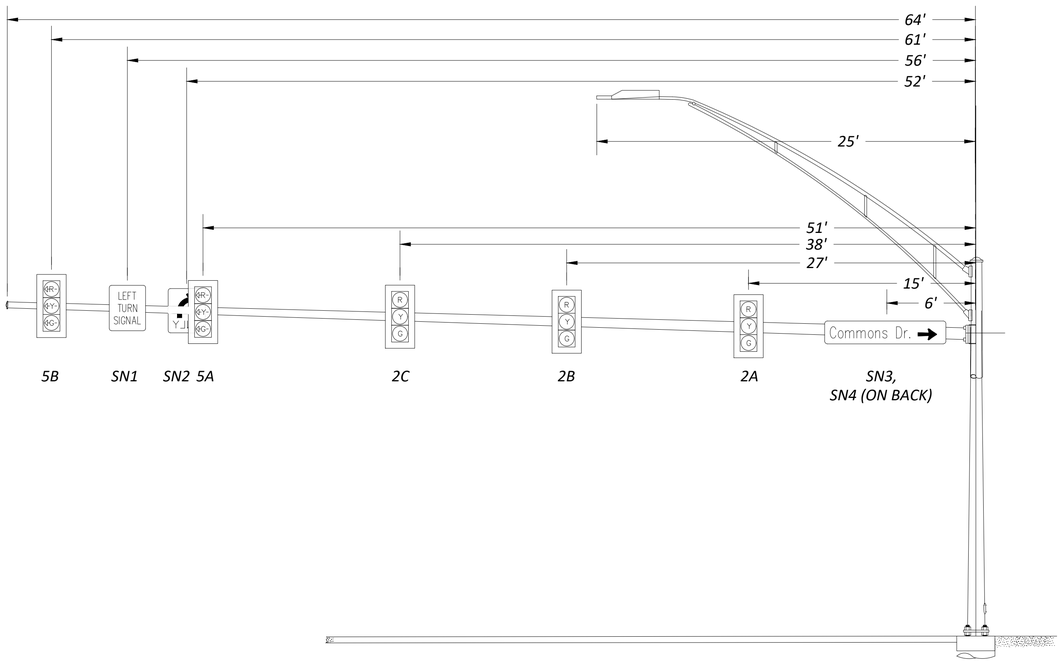
ISSUED FOR: REVIEW
ISSUE DATE: 1/13/2026
SCALE:
DESIGNED BY: AFS
DRAWN BY: AFS
CHECKED BY: ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

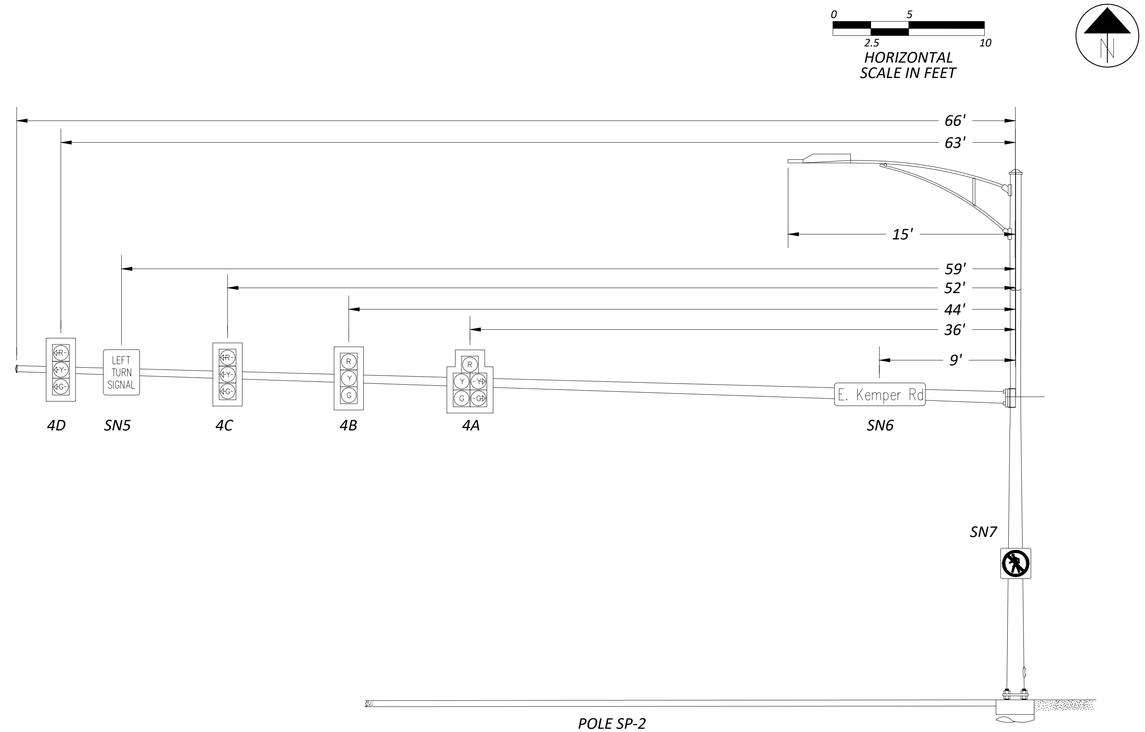
TRAFFIC SIGNAL ELEVATION

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSE1
SHEET 41 OF 47

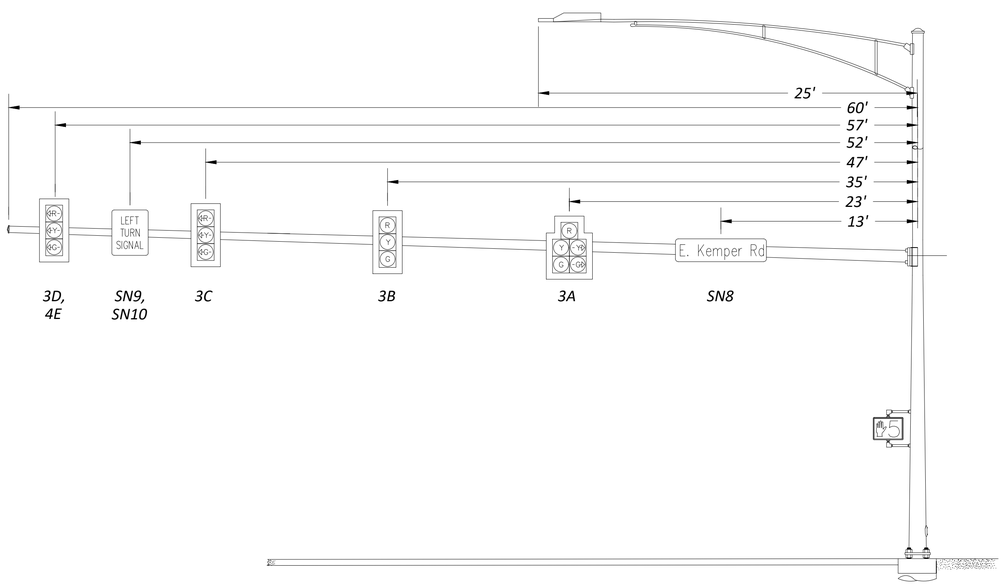
I:\10.1.1.4\PROJECTS\2024 PROJECTS\2434\9 VERDANTA\002 EAST KEMPER RD\DRAWING\KEMPER & CENTURY CP001.DWG - CE001 - 1/16/2026 11:32:48 AM - ANDREW SANT



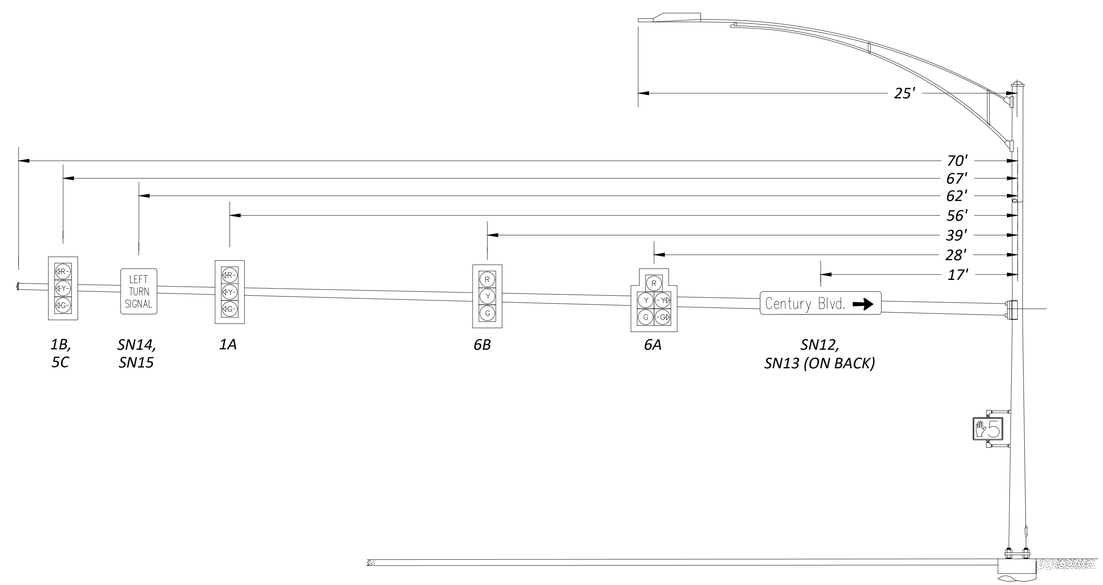
POLE SP-1
(FACING WEST)



POLE SP-2
(FACING NORTH)



POLE SP-3
(FACING SOUTH)



POLE SP-4
(FACING EAST)

TEC Engineering, Inc
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

NO	REVISION	DATE

ISSUED FOR:	REVIEW
ISSUE DATE:	1/13/2026
SCALE:	1:5
DESIGNED BY:	AFS
DRAWN BY:	AFS
CHECKED BY:	ALH

EAST KEMPER ROAD IMPROVEMENTS AND SHARED USE PATH, PH. 1
CITY OF SPRINGDALE - HAMILTON COUNTY, OHIO

TRAFFIC SIGNAL ELEVATION 2

PROJECT NO. 242429
DISCIPLINE CIVIL
SHEET NAME TSE2
SHEET 42 OF 47

\\10.1.1.4\PROJECTS\2024 PROJECTS\2434\9 VERDANTA\9.002 EAST KEMPER RD\DRAWING\KEMPER & CENTURY CP001.DWG - CE002 - 1/16/2026 11:32:48 AM - ANDREW SANT

GENERAL PROVISIONS

The Contractor is advised that there are several changes to the most recent edition of the City of Cincinnati Supplement dated January 1, 2023. These General Provisions include these changes. The Supplement and a Summary of Changes can be purchased or downloaded from the City's website:
http://www.cincinnati-oh.gov/dote/assets/File/2023%20CITY%20SUPPLEMENT-FINAL.pdf

Water main items are to be constructed in accordance with the provisions of the State of Ohio, Department of Transportation, Construction and Material Specifications, dated January 1, 2023, and modified by the City of Cincinnati Supplement to said State of Ohio Specifications, effective January 1, 2023, and any supplements or changes thereto. Copies of the State specifications are on file at the Office of Contract Sales of the State of Ohio, Department of Transportation, 25 South Front Street, Columbus, Ohio, and at the offices of the City Engineer of Cincinnati, Ohio. Submittal of a bid for this project implies that the Contractor has taken all provisions of the Supplement into account.

The Greater Cincinnati Water Works (GCWW) understands that differing site conditions results in extra work/change orders to the project. Change orders on GCWW contracts will be done in strict accordance with Item 109.05 C of the State of Ohio Department of Transportation Construction and Material Specifications dated January 1, 2023 or most recent edition and as modified in this City of Cincinnati Supplement. GCWW limits the mark up on wages and fringe benefits as described in 109.05 C. 2. "Labor" to 30%. It is expressly understood that regardless of the nature of the claim, or change in scope of work, the Contractor is not entitled to compensation for loss of anticipated profit or production.

As defined in the City of Cincinnati Supplement, sections 107.07 and 107.071, the Contractor is required to submit, at the time of the pre-construction meeting, a Site Safety Plan. Furthermore, the Contractor shall have an authorized and competent safety representative assigned to the project site.

The Contractor is advised that he has certain responsibilities under Section 153.64 of The Ohio Revised Code. For all underground utilities, contact the Ohio Utilities Protection Service at 1-800-362-2764 (toll free) 48 hours in advance of work. The Contractor is advised that all utility information has been shown on the contract plans from information provided by the owner of each utility in compliance with Sec. 153.64 of the Ohio Revised Code. In cases where utility information is incorrect and it results in a change in the contract plans the Contractor shall first notify the owner of the utility to determine the necessary course of action. The Contractor shall submit any subsequent claims as a result of downtime or additional work to the owner of the conflicting utility. The GCWW will not accept claims for any utility other than those as a result of incorrect water main and related appurtenance information.

The Contractor must locate or "pot hole" all utilities within the alignment of the proposed main a minimum of 50 feet ahead of pipe laying. Test holes must be dug, or trench excavated, a minimum of 50 feet (15.2 m) in advance of pipe laying, to assure proper clearance between the water main and any utility crossing, or underground structure. All utilities and structures shall be suitably braced and supported. The Contractor shall understand that any obstructions encountered in the installation of the main, due to the failure of having 50 feet (15.2m) of trench excavated ahead of laying operations, may require removal and relaying of the pipe at the contractors expense. The GCWW will not accept a claim for different utility conditions encountered when test holes are not performed as required.

Item 1120, "Exploratory Excavation", shall not include excavations within the limits of the proposed trench as defined in 1101.04 and 1101.05. Test holes are required on all utilities within 50 feet of the last laid pipe. Test holes within the alignment of the proposed trench are included in the Contractor's unit bid for Item 1101. Locations to be explored will vary from areas within the roadway to areas outside of the roadway.

It is the nature of construction that unmarked utilities or utilities not shown on the plans may be encountered within the excavation for the proposed work. the contractor is responsible to identify and remove any abandoned utilities encountered in the excavation. unless otherwise noted on the plans, no extra payment will be made for up to 10" diameter, width or depth utilities, to the contractor for the identification and removal of the abandon utility. All costs shall be included in the contractor's unit price bid for the appropriate item 1101, "Laying ductile iron pipe and fittings".

Street pavement or sidewalk should not be disturbed for a distance of more than 200 Feet (61.0 m) ahead of the last laid pipe. Backfill shall be completed within 50 feet (15.2 m) of the last laid pipe. Temporary or permanent surface restoration must be installed within a distance of 200 feet (61.0 m) of the laid pipe, including those areas where main installations occur within a closed lane or closed street condition. Roadway plates may be used as a temporary measure for a period not to exceed 24 hours without the approval of the GCWW.

Any undermined pavement of more than 6 inches horizontal must be removed prior to starting trench backfill. If undermining of pavement occurs more than 1 foot, then pavement must be shored to protect traffic, or arrangements made for additional lane closures must be made. If problems continue to occur regarding trenching integrity, sheeting and bracing can be required by the City Engineer or the City Engineer's representative, at the contractor's expense. If any tunneling is necessary, adequate information shown in both plan and profile and tunneling procedures must be submitted to the City Engineer's Office prior to commencement of work.

The GCWW has made every effort to depict the pipe sewers and lateral information on the plans. The Contractor is advised that sewer laterals are shown in plan view only. The Contractor shall determine the elevation of the sewer laterals in advance of laying the water main at these crossings. If the sewer laterals require changing in order to avoid conflict with the water main, or if the Contractor encounters a pipe sewer or lateral in the excavation that was not shown on the plans and requires a change of grade or alignment due to the installation of the water main, the Contractor shall furnish all necessary labor, material, tools, and equipment required to change the grade or alignment of pipe sewers and laterals of various sizes, allowing installation of water mains and appurtenances as shown on the plans, or as directed by the GCWW Inspector. This work shall include all necessary excavation, backfill, and restoration. The Contractor will be compensated under Item 1123, "Changing Pipe Sewers 8 Inch and Under". When crossing sanitary and combination sewers, a vertical clearance of 18" must be maintained.

Notice of Confidentiality – Public Infrastructure Record

This Document is a Public Infrastructure Record of the City of Cincinnati and its Greater Cincinnati Water Works, and is not subject to the public disclosure requirements of the public records laws of the State of Ohio and federal government. This Document is being provided on the basis of your reported need, and shall be considered confidential. By accepting this Document, you agree that it will not be shared or otherwise disclosed to anyone other than persons who have a direct need to know for the sole purpose of carrying out the project for which this Document was obtained. Anyone receiving this Document is bound by the same confidentiality requirements and must take precautions to protect against its dissemination.

The failure to observe the confidentiality requirements of this Notice shall serve as the basis for the City of Cincinnati to immediately seek legal recourse, including the recovery of actual damages resulting from unauthorized access or disclosure of the Document.

1-800-362-2764
OHIO Utilities Protection SERVICE
Call Before You Dig

The Contractor is advised that due to the alignment of the proposed water main, it may be necessary to install a temporary valve box over an existing chambered valve that must remain in service during the water main installation as directed by the GCWW Inspector. The chamber shall be abandoned, a valve box (furnished by the contractor) placed over the valve, and upon project completion, the valve box must be removed. The contractor will not receive additional compensation for this work, but should include the cost of this work in his unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

It is the Contractor's responsibility to provide adequate water supply for domestic and fire fighting purposes. In order to accomplish the water main connections with a minimum amount of inconvenience to the consumers, it may be necessary to do the work at other than normal working hours or as may be scheduled by the GCWW.

The Contractor is advised that the operating pressure of the existing water main within the limits of the subject project is approximately **100–130 P.S.I.**

In order to minimize the inconvenience of the consumers, the number of shutdowns required to do the proposed water main work shall be limited. Only one shutdown, limited to 8 hours, will be allowed during a 24 hour period.

All water service branches have a minimum cover of 3.0 feet.

The Contractor is advised that it shall be necessary to install temporary Plug/caps on the existing and proposed water mains in order to maintain service during testing and water main and branch connections. These temporary Plug shall be furnished by the contractor. He is responsible for their proper installation. The cost for this work shall be included in the Contractor's unit bid price for the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is required to excavate and expose the existing utilities and existing water mains along the line of the proposed water main and all proposed connection points to verify location, diameter, line and grade. Also, if the removal of the bulkhead or plug is required all excavation and temporary/permanent restoration shall be compensated under the Contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is advised that all C.J. Plug are to be restrained with a Field Lok Gasket and all M.J. caps are to be restrained using a M.J.R.G.. This includes temporary Plug and caps for testing purposes. When a temporary plug is used, the contractor is permitted to remove the plug by cutting the section of pipe containing the plug and using a solid sleeve at that point to complete the tie-in. In the event that a cap is used, the contractor shall remove the M.J.R.G. and cap before completing the tie-in.

The Contractor is advised that on any fire hydrant required to be relocated with this project, all bolt assemblies shall be replaced. The cost for this work shall be included in the unit bid price for Item 1113 "Relocating Existing Fire Hydrants". No part of any fire hydrant setting shall be installed closer than five feet to any driveway, inlet, utility pole or guy wire anchor.

Item 1111, "Water Works Valve Chambers", shall also cover the furnishing and installing of Precast Reinforced Concrete Chambers in accordance with O.D.O.T. Specification 706.13. All pertinent provisions of this item and GCWW Standard Drawing No. 104-1A shall apply. Precast chambers shall be used in all locations where space permits and as directed by the GCWW.

Air cocks may be necessary for the proper operation of the water system. The Air Release Assembly, which may not be shown on the drawing, will be furnished and installed by the Contractor per the detail on these plans, if required by the GCWW.

It shall be the Contractor's responsibility to arrange for the removal and replacement of any poles and guys necessary for the installation of the proposed water mains, and any cost connected thereto shall be at his expense.

All pipe and specials shall be in accordance with City of Cincinnati Specification 40-110-16.

All procured water main and appurtenance materials, other than those furnished through the GCWW must be properly certified; certified for GCWW Inspection: or already inspected by the GCWW. Pipe, fittings, valves and fire hydrants must be GCWW inspected and stamped materials.

The Contractor should be advised that all Fittings (Bends, Offset Bends, Tees, Crosses, Sleeves, Caps and Plug) supplied for this job may be either ANSI/AWWA C-110 Full-body Ductile Iron, Cement Lined Fittings or ANSI/AWWA C-153 Compact Ductile Iron, Fusion Bonded Epoxy Coated Fittings in accordance with City of Cincinnati, Department of Purchasing, Standard Specification No. 40-110-12 for Pipe and Fittings Water, Ductile Iron 3" to 60". All fittings are subject to inspection and approval by appropriate GCWW Inspection personnel. Minor pinholes and abrasions to epoxy coated valves and fittings are to be repaired using 3M Hot Melt Patch Compounds (H.M.P.C.) in the stick form. Repair procedures shall be in accordance with the General Application Steps identified for the H.M.P.C. All repairs to epoxy coated fittings are subject to inspection and approval by appropriate GCWW Inspection personnel.

All rejected material, including pipe and fittings, shall be removed from the project site immediately.

The Contractor must maintain access to sidewalks at all times. Storage of any materials within the public Right of Way, including sidewalks, is not permitted unless approved by GCWW, the Project Engineer, or as indicated on the approved plans.

All copper tubing shall be type "K" of a standard nominal size: 3/4", 1", 1-1/2" and 2". All fittings will have copper flare type connections and shall be in accordance with City of Cincinnati Specification No. 40-113-05.

The contractor shall furnish the necessary certifications for branch material.

All proposed water mains will be hydrostatically tested for leakage in accordance with 1101.054,'Hydrostatic Test for Leakage', of the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor will be responsible for filling, flushing, and pressure testing new water mains, 20" or smaller. The contractor will provide all labor, material and equipment (including the necessary pumps to apply the pressure test). The Water Works will provide the necessary meter and gauge. All costs for this work shall be included in the contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings". Once the filling and pressure testing are completed, the Contractor will be responsible for flushing the proposed water main and the CGWW will be responsible for bacteria sampling. The GCWW will be responsible for filling, pressure testing and flushing new water mains greater than 20".

The Contractor is responsible for all pipe sewers disturbed in the completion of this project. In the event it becomes necessary to repair or replace existing pipe sewers, the Contractor must notify Sewer Maintenance, (513)244-1369, before proceeding with the work.

The Contractor is advised that his unit bid prices for the appropriate Item 1101, "Furnish & Install Pipe and Fittings", includes final restoration of all disturbed surfaces. The GCWW will not make full compensation under Item 1101 until final restoration is complete.

"All valve and air release box assemblies shall be domestically manufactured.

All box assemblies for 12-inch and smaller gate valves and 1-inch air releases shall be either Tyler Union Series 6850, EJ Series 8500, or Bingham & Taylor Series 4905, or GCWW approved equal. Box assemblies for these applications require a frost plug and "BOXLOK."

All box assemblies for 16-inch and above butterfly or gate valves and 2-inch air releases shall be EJ Series 460, or GCWW approved equal. Box assemblies for these applications require a frost plug.

All costs associated with adherence to these requirements shall be included in the Contractor's unit bid price for Item 1116 – Furnishing and Installing Valve Box Complete.

SUGGESTED BILL OF MATERIALS

FURNISHED BY CONTRACTOR

	QTY	UNIT	DESCRIPTION
	5	EACH	6" DUCTILE IRON PIPE, C.J., TH. CL. 55, 20' LENGTH
	1	EACH	12" DUCTILE IRON PIPE, C.J., TH. CL. 56, 20' LENGTH
	6	EACH	POLYETHYLENE TUBE, 16" WIDE X 20' LONG, 4 MIL CROSS LAMINATE
	2	EACH	POLYETHYLENE TUBE, 27" WIDE X 20' LONG, 4 MIL CROSS LAMINATE
	1	ROLLS	POLYETHYLENE TAPE, 2" WIDE X 100' LONG
	3	EACH	6" 45° BEND, 2 M.J.
	6	EACH	12" SOLID SLEEVE, 2 M.J.
	1	EACH	12" X 6" TEE, 2 M.J. X FLG.
	1	EACH	12" X 6" TEE, 3 M.J.
NOTE 1	1	EACH	6" VALVE, FLG. X M.J.
NOTE 1	1	EACH	6" VALVE, 2 M.J.
	1	EACH	6" FLANGE TYTE RUBBER GASKET
	2	EACH	VALVE BOX COMPLETE
	2	EACH	VALVE BOX BOXLOK
	2	EACH	VALVE BOX FROST PLUG
	2	EACH	6" FH EXTENSION (12" LONG)
NOTE 4	12	EACH	6" M.J.R.G. ASSEMBLY
NOTE 4	16	EACH	12" M.J.R.G. ASSEMBLY

SERVICE BRANCH MATERIAL

FURNISHED BY CONTRACTOR

	QTY	UNIT	DESCRIPTION
NOTE 2	32	LIN. FT.	2" COPPER SERVICE PIPE W/AQUA SHIELD
NOTE 3	1	EACH	2" INSULATING COUPLING
NOTE 3	1	EACH	2" STOP COCK
	1	EACH	ROADWAY BOX

FURNISHED BY CITY OF SPRINGDALE

QTY	UNIT	DESCRIPTION
1	EACH	6" FIRE HYDRANT

***Note: Contractor shall verify the size and material of each service branch at the property line prior to installing branch. Cost for this work to be included in Item 1126-"Furnishing and Installing Copper Service Pipe w/ Aqua Shield".

The materials listed are only suggested for use during the water main and branch relocation work as proposed on the drawings. The contractor shall furnish additional material where needed. No allowance will be made for unused material nor will any extra payment be made for additional specials required to complete the water main work. Before ordering material the contractor is responsible for making his own field measurements and for field verifying the O.D. of existing water mains where sleeves and pipe couplings are involved.

Note 1:
Valves furnished by the contractor shall be; American Resilient Wedge Gate Valve Series 2500, U.S. Pipe Metroseal Gate Valve, Kennedy Valve Ken Seal II Resilient Gate Valve, Clow F-6100 Series Resilient Wedge Gate Valve, Mueller 2360 Resilient Wedge Gate Valve.

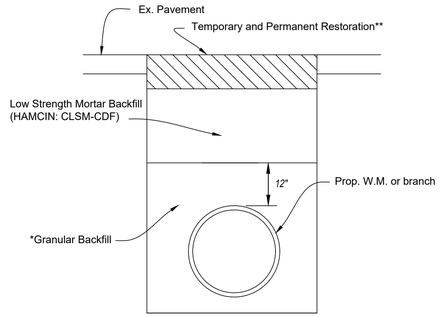
Note 2:
Low-Lead Brass Material Requirements:
All components in contact with water shall be fabricated from Sebiloy II or Federalloy I-836 alloys or a material approved by the Engineer. All components that do not come in contact with water shall comply with the requirements of ASTM B 62 Copper Alloy Number.
Coated or washed metals are not acceptable if their lead levels exceed .25% by weight prior to the coating or washing process. All service fittings and materials shall be certified as suitable for contact with drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water Systems Components – Health Effects. All service fittings shall either be stamped or embossed with the letter "NL", to indicate "No-Lead", or marked to indicate that the product is manufactured from the low-lead alloys.

Note 3:
Special Note on Service Pipe in Corrosive Soils:
Service tubing is to be soft K Copper manufactured to the requirements of ASTM B88. Service tubing coating shall have NOVA Polyethylene LLDPE extrusion resin PP-0118-F coating to meet minimum of .026 mil thickness containing UV inhibitors. Service tubing shall have identification & traceability on both copper & plastic continuously line-marked with tube contents, ASTM specification, size, & descending footage. Unique lot number printed on both copper & plastic allowing product to be traced back to origin and time of manufacturing. Service tubing shall be Aqua Shield as manufactured by KAMCO Products Inc. or approved equal.

Note 4:
Mechanical Joint Restrain Gland (MJRG):
All mechanical joint restraint glands furnished by the contractor shall be any of the following:
EBAA--Megalug
TYLER/UNION--Tufgrip
STAR--Stargrip
FORD--Uni-Flange Series 1400

All products shall be domestically manufactured.

STANDARD WATER MAIN TRENCH INSTALLATION DETAIL



**TEMPORARY AND PERMANENT RESTORATION SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND/OR PROJECT PLAN TYPICAL SECTIONS. (MATCH THE "STORM SEWER TRENCH RESTORATION.)

IN AREAS WHERE THE PAVEMENT; BASE AND/OR SUB-BASE IS TO BE REPLACED AS PART OF THE ROADWAY CONTRACT, THE COST FOR PERMANENT PAVEMENT RESTORATION SHALL BE INCLUDED UNDER THE APPROPRIATE PAVEMENT BID ITEMS. COST FOR TEMPORARY PAVEMENT RESTORATION IN THESE AREAS SHALL BE INCLUDED IN THE CONTRACTOR'S APPROPRIATE UNIT BID PRICE FOR ITEM 1101 OR ITEM 1126.

UNLESS OTHERWISE NOTED ON THE PLANS, AREAS WHERE THE EXISTING PAVEMENT, BASE AND/OR SUB-BASE ARE NOT TO BE DISTURBED, THE COST FOR TEMPORARY AND PERMANENT PAVEMENT RESTORATION SHALL BE INCLUDED IN THE CONTRACTOR'S APPROPRIATE UNIT BID PRICE FOR ITEM 1101 OR ITEM 1126.

*BACKFILL OF THE WATER MAIN AND BRANCH TRENCH SHALL BE DONE IN ACCORDANCE WITH G.C.W.W. SPECIFICATIONS. ALL WATER MAINS AND BRANCHES INSTALLED OUTSIDE OF THE PAVEMENT AREA SHALL UTILIZE GRANULAR BACKFILL IN LIEU OF THE CONTROL DENSITY FILL. ALL COSTS FOR BACKFILL SHALL BE INCLUDED UNDER ITEM 1101, "FURNISHING AND INSTALLING DUCTILE IRON PIPE AND FITTINGS".

CONTROLLED DENSITY FILL MUST MEET BOTH HAMCIN: CLSM-CDF PERFORMANCE SPECIFICATION AND O.D.O.T. SPECIFICATION. ALL FLOWABLE FILL PRODUCTS SHALL MEET THE REQUIREMENTS OF THE CURRENT HAMCIN CLSM-CDF BACKFILL SPECIFICATION (DATED MARCH 2015). COPIES OF THE HAMCIN CLSM-CDF BACKFILL SPECIFICATION ARE MADE AVAILABLE AT THE GCWW ENGINEERING OFFICES AT 4747 SPRING GROVE AVENUE, CINCINNATI DEPARTMENT OF TRANSPORTATION & ENGINEERING AT 801 PLUM STREET, OR THEIR WEBSITE:
HTTP://WWW.CINCINNATI-OH.GOV/DOTE/MANUALS-PERMITS-SUPPLEMENTS/
ALSO, THE CONTRACTOR SHALL SUBMIT, PRIOR TO THE START OF CONSTRUCCTION, THE NECESSARY DOCUMENTATION FOR REVIEW AND APPROVAL BY THE GCWW.

PLEASE NOTE THAT THE G.C.W.W. REQUIREMENT IS IN ADDITION TO HAMCIN SPECIFICATIONS FOR FLOWABLE FILL PRODUCTS. A COPY OF THE G.C.W.W. REQUIREMENT IS AVAILABLE AT THE G.C.W.W. ENGINEERING OFFICE LOCATED AT 4747 SPRING GROVE AVENUE. CONTACT THE SUPERVISOR OF INSPECTION AT 591-7870.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE NECESSARY CONTROLLED DENSITY FILL COMPLIANCE DOCUMENTATION FOR REVIEW AND APPROVAL BY THE G.C.W.W.

GCWW NOTE:
ALL FIELD LAYOUT OF WATER MAIN PIPE AND SPECIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED BY A LICENSED SURVEYOR.

INDEX

GENERAL PROVISIONS 1
SUGGESTED BILL OF MATERIALS 1
RESTORATION DETAILS 1
PLAN 2-5

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP

APPROVED: WW004784 / 4-4201 / MF-17100

8/12/25
GCWW SUPERVISING ENGINEER - DESIGN DATE

08-12-25
GCWW PRINCIPAL ENGINEER - SYSTEM FACILITIES DATE

Haishan Piao 8/14/25
GCWW CHIEF ENGINEER DATE

STATE OF OHIO JOSEPH KORAN PE.65488 REGISTERED PROFESSIONAL ENGINEER

OhioEPA Ohio Environmental Protection Agency "Self-Certification" letter required prior to the start of construction.

☒ OEPA CERTIFICATION EXEMPT

☐ NON - EXEMPT

8/12/25
OEPA REVIEW DATE

HORIZONTAL AND VERTICAL SCALE IN FEET 0 10 20 40

CALCULATED MRD
CHECKED EGB

REVISIONS

GREATER CINCINNATI WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3845 EASTERN AVENUE, CINCINNATI, OHIO 45226

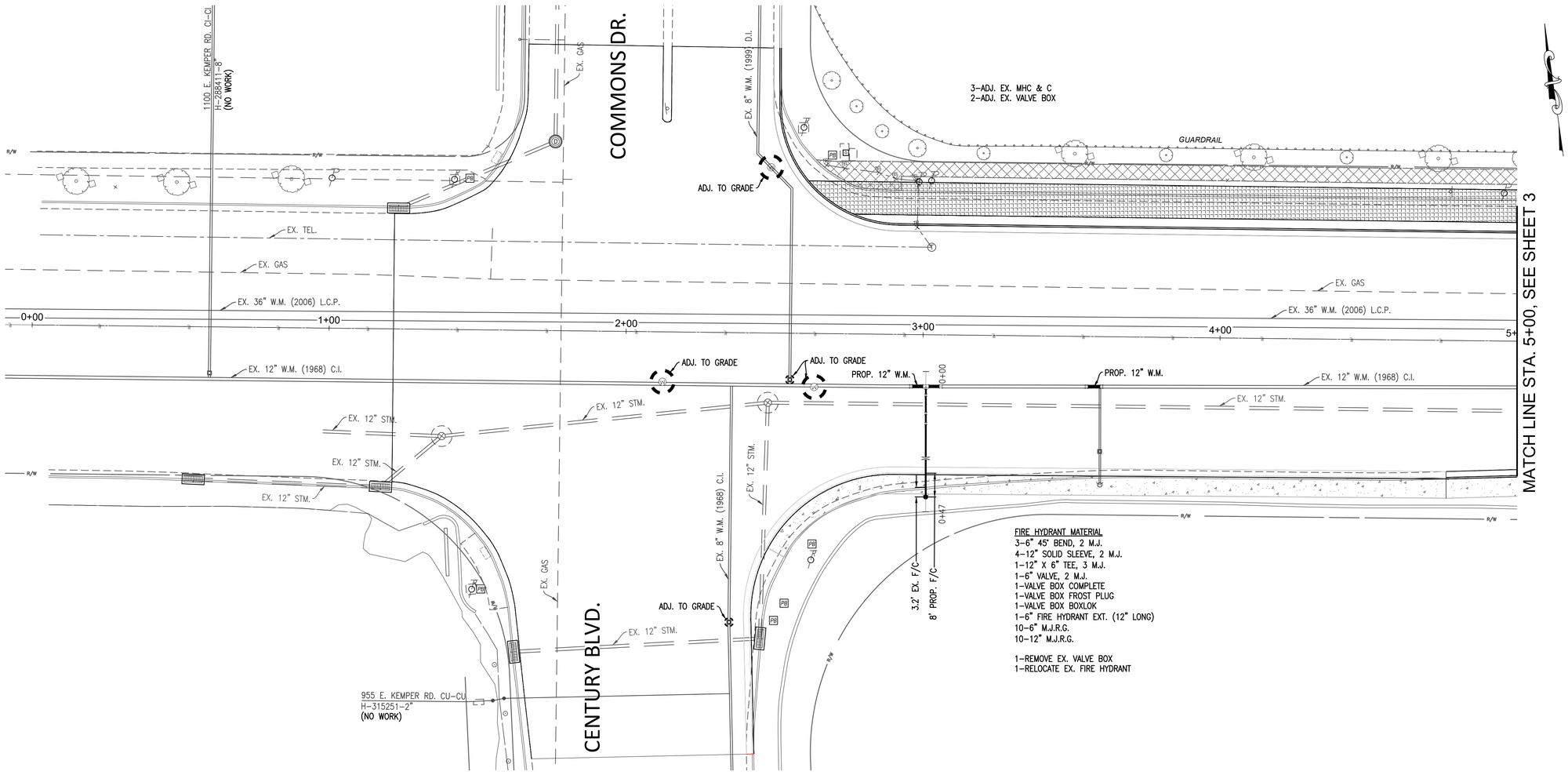
SUGGESTED BILL OF MATERIAL
G.C.W.W. SPECIAL PROVISIONS

4-4201
WW004784
MF-17100

1
5

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP

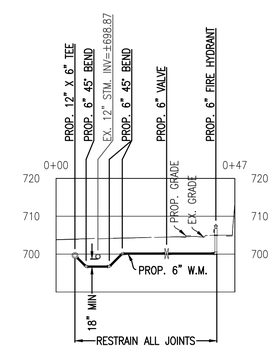
EAST KEMPER ROAD



FIRE HYDRANT MATERIAL
3-6" 45° BEND, 2 M.J.
4-12" SOLID SLEEVE, 2 M.J.
1-12" X 6" TEE, 3 M.J.
1-6" VALVE, 2 M.J.
1-VALVE BOX COMPLETE
1-VALVE BOX FROST PLUG
1-VALVE BOX BOXLOK
1-6" FIRE HYDRANT EXT. (12" LONG)
10-6" M.J.R.G.
10-12" M.J.R.G.

1-REMOVE EX. VALVE BOX
1-RELOCATE EX. FIRE HYDRANT

1ST F.H. EAST OF CENTURY BLVD.
STA. 3+01
(LOOKING EAST)



NOTICE OF CONFIDENTIALITY - PUBLIC INFRASTRUCTURE RECORD

THIS DOCUMENT IS A PUBLIC INFRASTRUCTURE RECORD OF THE CITY OF CINCINNATI AND ITS GREATER CINCINNATI WATER WORKS, AND IS NOT SUBJECT TO THE PUBLIC DISCLOSURE REQUIREMENTS OF THE PUBLIC RECORDS LAWS OF THE STATE OF OHIO AND FEDERAL GOVERNMENT. THIS DOCUMENT IS BEING PROVIDED ON THE BASIS OF YOUR REPORTED NEED, AND SHALL BE CONSIDERED CONFIDENTIAL. BY ACCEPTING THIS DOCUMENT, YOU AGREE THAT IT WILL NOT BE SHARED OR OTHERWISE DISCLOSED TO ANYONE OTHER THAN PERSONS WHO HAVE A DIRECT NEED TO KNOW FOR THE SOLE PURPOSE OF CARRYING OUT THE PROJECT FOR WHICH THIS DOCUMENT WAS OBTAINED. ANYONE RECEIVING THIS DOCUMENT IS BOUND BY THE SAME CONFIDENTIALITY REQUIREMENTS AND MUST TAKE PRECAUTIONS TO PROTECT AGAINST ITS DISSEMINATION.

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

0 10 20 40
HORIZONTAL AND VERTICAL SCALE IN FEET

CALCULATED MRD
CHECKED EGB

REVISIONS

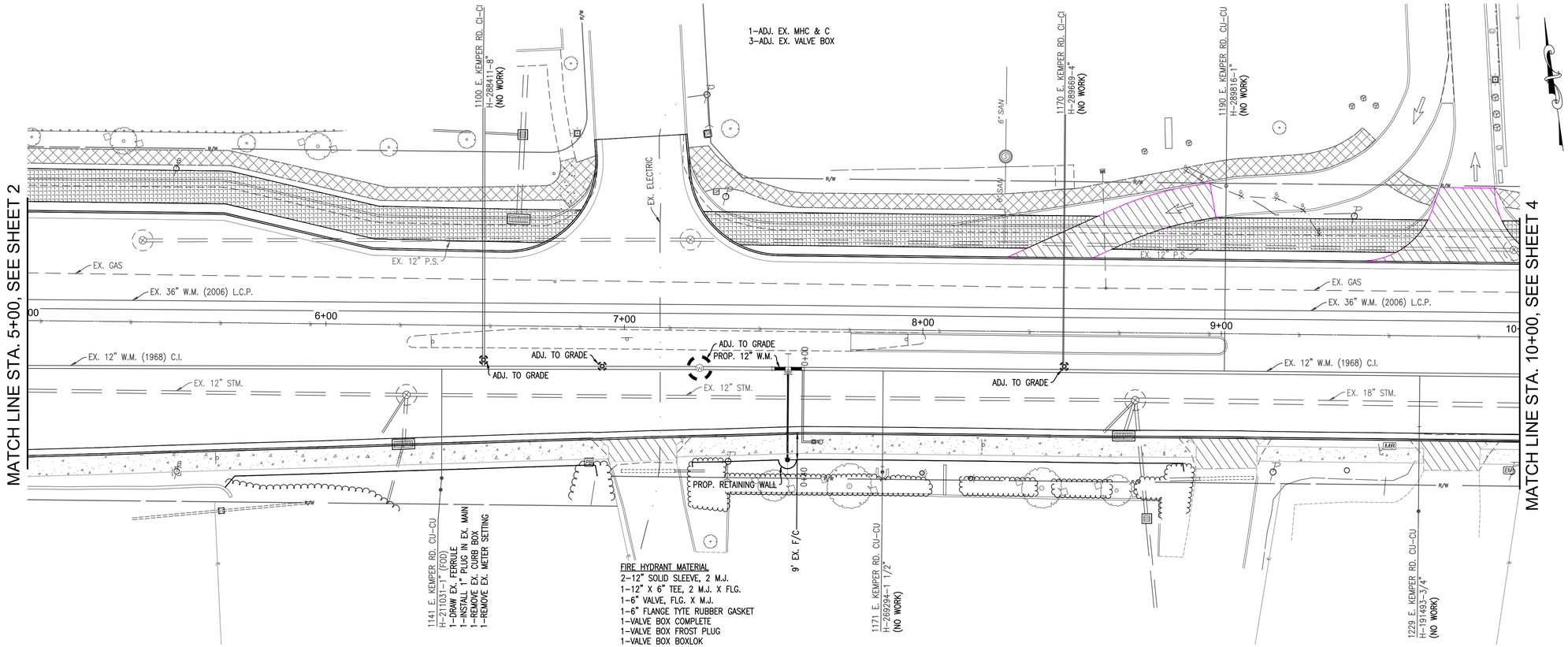
GREATER CINCINNATI WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3945 EASTERN AVENUE, CINCINNATI, OHIO 45226

EAST KEMPER ROAD
PLAN AND PROFILE

4-4201
WW004784
MF-17100

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP

EAST KEMPER ROAD

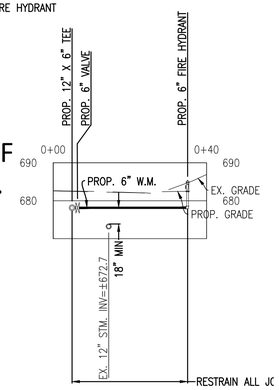


FIRE HYDRANT MATERIAL
2-12" SOLID SLEEVE, 2 M.J.
1-12" X 6" TEE, 2 M.J. X FLG.
1-6" VALVE, FLG. X M.J.
1-6" FLANGE TYTE RUBBER GASKET
1-VALVE BOX COMPLETE
1-VALVE BOX FROST PLUG
1-VALVE BOX BOXLOK
1-6" FIRE HYDRANT EXT. (12" LONG)
1-6" FIRE HYDRANT
2-6" M.J.R.G.
6-12" M.J.R.G.
1-6" FIELD LOK GASKET

1-REMOVE EX. VALVE BOX
1-REMOVE EX. FIRE HYDRANT

FIRE HYDRANT SPECIAL NOTE
PROP. RETAINING WALL AS PER GCWW STD. 103-1A (SEE EAST KEMPER ROAD IMPROVEMENT PLANS). ALL COSTS TO BE INCLUDED IN CONTRACTOR UNIT BID FOR ITEM 1112 FURNISHING AND INSTALLING FIRE HYDRANTS.

2ND F.H. EAST OF CENTURY BLVD.
STA. 7+55
(LOOKING EAST)



NOTICE OF CONFIDENTIALITY - PUBLIC INFRASTRUCTURE RECORD

THIS DOCUMENT IS A PUBLIC INFRASTRUCTURE RECORD OF THE CITY OF CINCINNATI AND ITS GREATER CINCINNATI WATER WORKS, AND IS NOT SUBJECT TO THE PUBLIC DISCLOSURE REQUIREMENTS OF THE PUBLIC RECORDS LAWS OF THE STATE OF OHIO AND FEDERAL GOVERNMENT. THIS DOCUMENT IS BEING PROVIDED ON THE BASIS OF YOUR REPORTED NEED, AND SHALL BE CONSIDERED CONFIDENTIAL. BY ACCEPTING THIS DOCUMENT, YOU AGREE THAT IT WILL NOT BE SHARED OR OTHERWISE DISCLOSED TO ANYONE OTHER THAN PERSONS WHO HAVE A DIRECT NEED TO KNOW FOR THE SOLE PURPOSE OF CARRYING OUT THE PROJECT FOR WHICH THIS DOCUMENT WAS OBTAINED. ANYONE RECEIVING THIS DOCUMENT IS BOUND BY THE SAME CONFIDENTIALITY REQUIREMENTS AND MUST TAKE PRECAUTIONS TO PROTECT AGAINST ITS DISSEMINATION.

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

0 10 20 40
HORIZONTAL AND VERTICAL SCALE IN FEET

CALCULATED	CHECKED
MRD	EGB

REVISIONS

GREATER CINCINNATI WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3645 EASTERN AVENUE, CINCINNATI, OHIO 45226

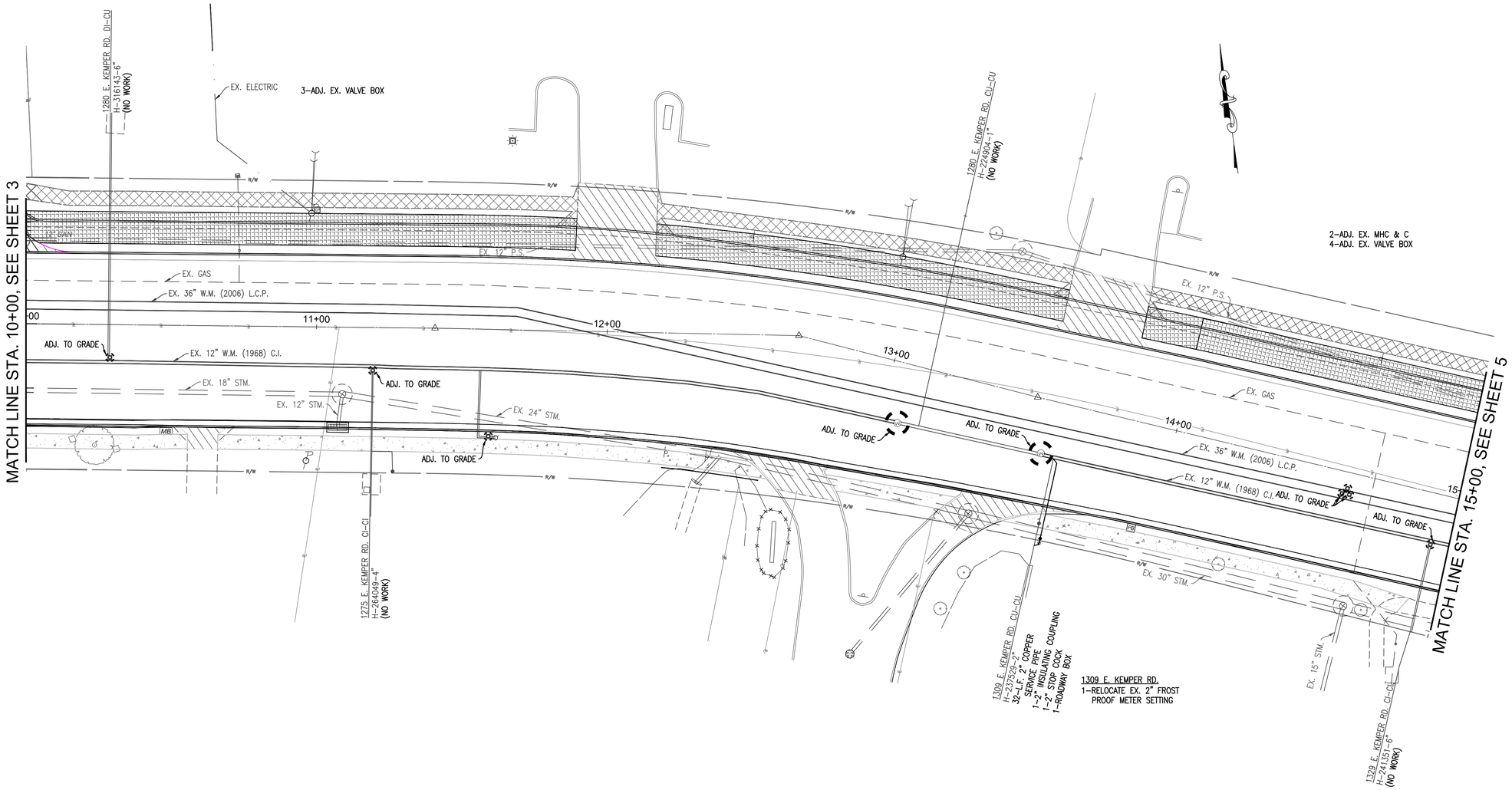
EAST KEMPER ROAD
PLAN AND PROFILE

4-4201
WW004784
MF-17100

3
5

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP

EAST KEMPER ROAD



NOTICE OF CONFIDENTIALITY - PUBLIC INFRASTRUCTURE RECORD

THIS DOCUMENT IS A PUBLIC INFRASTRUCTURE RECORD OF THE CITY OF CINCINNATI AND ITS GREATER CINCINNATI WATER WORKS, AND IS NOT SUBJECT TO THE PUBLIC DISCLOSURE REQUIREMENTS OF THE PUBLIC RECORDS LAWS OF THE STATE OF OHIO AND FEDERAL GOVERNMENT. THIS DOCUMENT IS BEING PROVIDED ON THE BASIS OF YOUR REPORTED NEED, AND SHALL BE CONSIDERED CONFIDENTIAL. BY ACCEPTING THIS DOCUMENT, YOU AGREE THAT IT WILL NOT BE SHARED OR OTHERWISE DISCLOSED TO ANYONE OTHER THAN PERSONS WHO HAVE A DIRECT NEED TO KNOW FOR THE SOLE PURPOSE OF CARRYING OUT THE PROJECT FOR WHICH THIS DOCUMENT WAS OBTAINED. ANYONE RECEIVING THIS DOCUMENT IS BOUND BY THE SAME CONFIDENTIALITY REQUIREMENTS AND MUST TAKE PRECAUTIONS TO PROTECT AGAINST ITS DISSEMINATION.

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

0 10 20 40
HORIZONTAL AND VERTICAL
SCALE IN FEET

CALCULATED MRD
CHECKED EGB

REVISIONS

GREATER CINCINNATI
WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3645 EASTERN AVENUE, CINCINNATI, OHIO 45226

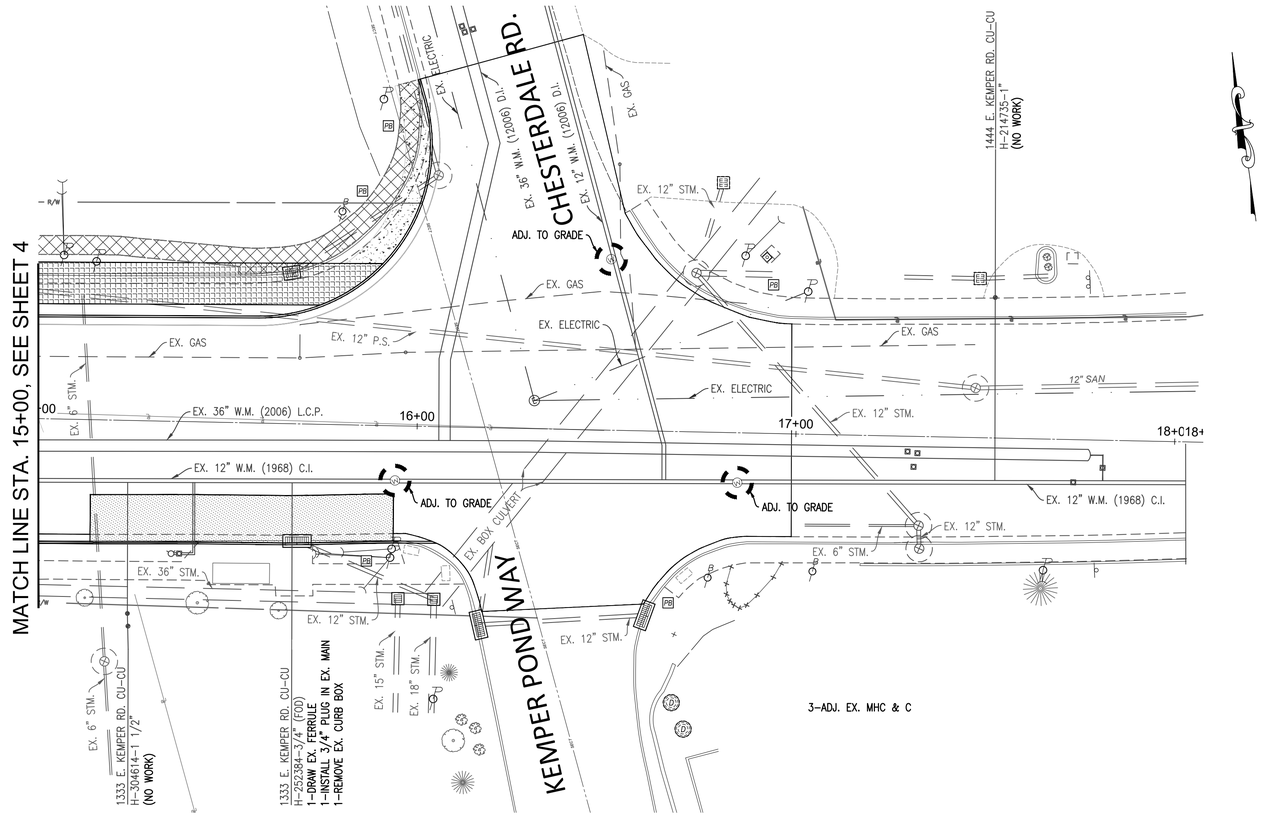
EAST KEMPER ROAD
PLAN AND PROFILE

4-4201
WW004784
MF-17100

4
5

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP

EAST KEMPER ROAD



NOTICE OF CONFIDENTIALITY - PUBLIC INFRASTRUCTURE RECORD

THIS DOCUMENT IS A PUBLIC INFRASTRUCTURE RECORD OF THE CITY OF CINCINNATI AND ITS GREATER CINCINNATI WATER WORKS, AND IS NOT SUBJECT TO THE PUBLIC DISCLOSURE REQUIREMENTS OF THE PUBLIC RECORDS LAWS OF THE STATE OF OHIO AND FEDERAL GOVERNMENT. THIS DOCUMENT IS BEING PROVIDED ON THE BASIS OF YOUR REPORTED NEED, AND SHALL BE CONSIDERED CONFIDENTIAL. BY ACCEPTING THIS DOCUMENT, YOU AGREE THAT IT WILL NOT BE SHARED OR OTHERWISE DISCLOSED TO ANYONE OTHER THAN PERSONS WHO HAVE A DIRECT NEED TO KNOW FOR THE SOLE PURPOSE OF CARRYING OUT THE PROJECT FOR WHICH THIS DOCUMENT WAS OBTAINED. ANYONE RECEIVING THIS DOCUMENT IS BOUND BY THE SAME CONFIDENTIALITY REQUIREMENTS AND MUST TAKE PRECAUTIONS TO PROTECT AGAINST ITS DISSEMINATION.

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

0 10 20 40
HORIZONTAL AND VERTICAL SCALE IN FEET

CALCULATED	CHECKED
MRD	EGB

REVISIONS

GREATER CINCINNATI WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3945 EASTERN AVENUE, CINCINNATI, OHIO 45226

EAST KEMPER ROAD
PLAN AND PROFILE

4-4201
WW004784
MF-17100

5
5

EAST KEMPER RD. IMPROVEMENTS AND SHARED USE PATH STIMP