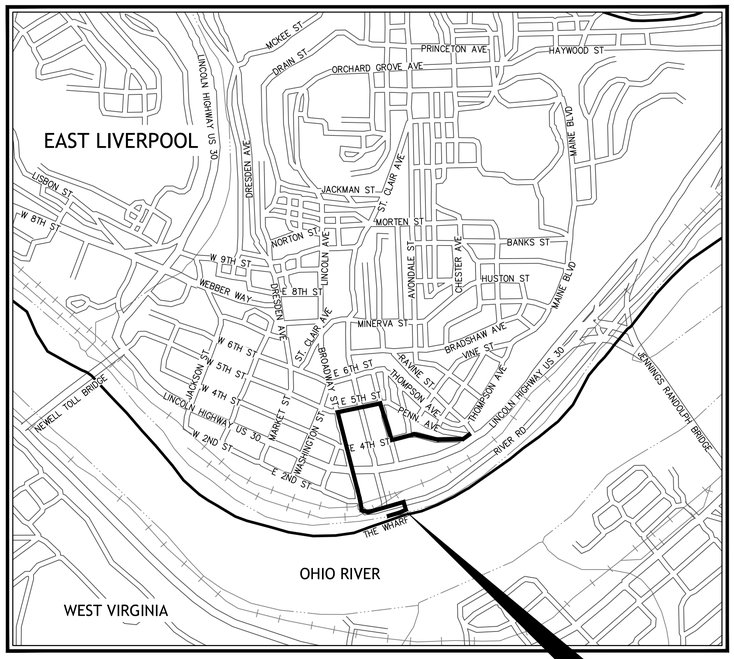


LOCATION MAP

0 1000 2000
GRAPHIC SCALE IN FEET

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

COL-EL RIVERFRONT TRAIL, PHASE 1.1

CITY OF EAST LIVERPOOL
COLUMBIANA COUNTY, OHIO

FEDERAL PROJECT NUMBER

E230019

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 0.62 MILE SHARED USE PATH CONNECTING DOWNTOWN EAST LIVERPOOL OHIO TO THE OHIO RIVER RIVERFRONT ALONG VARIOUS ROUTES.

EARTH DISTURBED AREA

PROJECT EARTH DISTURBED AREA:	*0.97 AC*
ESTIMATED CONTRACTOR DISTURBED AREA:	*0.15 AC*
TOTAL NOI DISTURBED AREA:	*1.12 AC*

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT WHERE NOTED ON THE PLANS AND IN THE PROJECT MANUAL. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE CITY OF EAST LIVERPOOL AND/OR THEIR REPRESENTATIVES.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

INDEX OF SHEETS

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CORPORATION LIMITS

PORTION TO BE IMPROVED

OTHER ROADS

DESIGN DESIGNATION *MAH–SHERIDAN RD (POLAND)*
DESIGN SPEED *18 MPH*

DESIGN EXCEPTIONS *ADA DESIGN WAIVERS*
NONE *NONE REQUIRED*

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)

PLANS PREPARED AND RECOMMENDED BY:

Environmental Design Group
800.835.1390 | envdesigngroup.com

STATE OF OHIO
KYLE T. LUKES
1239
REGISTERED LANDSCAPE ARCHITECT
06/19/2026

FOR DESIGN EXCLUDING ROADWAY AND DRAINAGE

ENGINEER'S SEAL

STATE OF OHIO
ROBERT MORGAN SABOL
E-85140
REGISTERED PROFESSIONAL ENGINEER
6/19/26

FOR ROADWAY AND DRAINAGE DESIGN ONLY

STANDARD CONSTRUCTION DRAWINGS					*SUPPLEMENTAL SPECIFICATIONS*	
					SPEC NO.	DATE
BP–3.1	1/19/2024	DM–4.4	1/15/2016		800	1/16/2026
BP–4.1	7/19/2013	MH–3	7/19/2024		870	7/18/2025
BP–5.1	1/16/2026				832	7/18/2025
BP–7.1	1/16/2026	TC–41.20	10/18/2013			
		TC–41.50	10/18/2013			
F–1.1	7/18/2025	TC–42.20	10/18/2013			
		TC–52.10	10/18/2013			
MGS–2.1	1/16/2026	TC–52.20	1/15/2021			
					SPECIAL PROVISIONS	
CB–2–2B	7/19/2024	MT–97.10	7/18/2025			
CB–3A	1/16/2026	MT–101.90	7/17/2020			
		MT–110.10	7/19/2013			
I–2A	7/19/2024	MT–105.10	1/17/2020		*GEOTECHNICAL REPORT 10/31/2025*	
DM–1.1	1/17/2025					
DM–4.3	1/15/2016					

APPROVALS:
City of East Liverpool

Thomas D. Corey
11
District 11 Deputy Director

Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER ESD
REVIEWER KTL 01-19-26
PROJECT ID 117785
SHEET P.1 TOTAL 29

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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GENERAL

ROUNDING
THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

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

AT&T OHIO, INC.
ATTN: TORRICE ROBINSON
7125 TIFFANY BLVD.
YOUNGSTOWN, OHIO 44514
PHONE: (330) 423-4866
EMAIL: TR3463@ATT.COM

COLUMBIA GAS OF OHIO, INC
300 LURAY DRIVE
WINTERSVILLE, OHIO 43953
(740) 266-4282
TGSEECH@NISOURCE.COM
ATTN:TIMOTHY G. SEECH

CITY OF EAST LIVERPOOL
WATER DEPARTMENT
2220 MICHIGAN AVENUE
EAST LIVERPOOL, OHIO 43920
(330) 932-6063
ATTN: PAUL McCARTHY
EMAIL: P.MCCARTHY@EASTLIVERPOOL.COM

AEP OHIO POWER COMPANY
120 JOHN SCHOO HWY
STEUBENVILLE, OH 43952
740 266-3093
TJKELLY@AEP.COM
ATTN: TYLER KELLY

TC ENERGY
4115 CORK BOCKTOWN ROAD
CLINTON, PA
724-223-3944
ANTHONY_WINTERS@TCENERGY.COM ATTN:
ANTHONY WINTERS

COMCAST
2810 DARLINGTON ROAD
BEAVER FALLS, PA 15010
724-384-1861
DAVID_TATAREK@CABLE.COMCAST.COM
ATTN: DAVID TATAREK

BUCKEYE WATER
1925 CLARK AVENUE
WELLSVILLE, OHIO 43968
330-532-2448

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

INVESTIGATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS SHALL BE INCLUDED IN BID ITEMS.

THE CONTRACTOR IS RESPONSIBLE, PRIOR TO CONSTRUCTION, TO DETERMINE THE ACTUAL LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL OHIO811 AT 811 TWO FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

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

SURVEYING PARAMETERS
PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.6 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL
POSITIONING METHOD: OHIO VRS

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88

GEOID: GEOID 18

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 2011 2010.0 EPOCH

ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC 2 STANDARD PARALLEL

COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE

ORIGIN OF COORDINATE SYSTEM: 0,0

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

UNITS ARE IN U.S. SURVEY FEET.

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

CONSTRUCTION ACCESS
CONTRACTORS SHALL DETERMINE THEIR MEANS FOR CONSTRUCTING THE INDICATED SITE IMPROVEMENTS ANTICIPATING THERE WILL NOT BE ANY ACCESS APPROVALS FROM THE ADJACENT PRIVATE PROPERTY OWNERS. SHOULD ANY PRIVATE PROPERTY ACCESS BE GRANTED, THE CONTRACTOR SHALL RESTORE ALL ACCESS POINTS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.

CONTRACTOR SHALL SUBMIT A CONSTRUCTION ACCESS PLAN TO THE ENGINEER FOR APPROVAL BY THE ENGINEER IN WRITING, DELINEATING THE LOCATIONS OF CONSTRUCTION EQUIPMENT ENTRY TO THE PROJECT SITE. THE PLAN SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING.

SECTION 4(F)
ACCESS TO BROADWAY WHARF AND ONE OF THE TWO BOAT RAMPS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE SECTION 4(F) PROPERTY AND THE PUBLIC. APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF BROADWAY WHARF OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

THE CONTRACTOR SHALL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT, THE BROADWAY WHARF, AND THE CITY OF EAST LIVERPOOL PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

ITEM SPECIAL – SURVEY CONTROL VERIFICATION
THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
   a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
   b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.
   c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
   a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
   b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN THE PLAN
   c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

ITEM SPECIAL – AS-BUILT CONSTRUCTION PLANS
PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION PLANS. THE FORMAL AS-BUILT CONSTRUCTION PLANS SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN AUTOCAD (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION PLANS SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION PLANS.
THE CONTRACTOR'S VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL AS-BUILT CONSTRUCTION PLANS. THE CONTRACTOR'S VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTOR'S PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE).

IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE AS BUILT CONSTRUCTION PLANS SHALL SHOW THE FOLLOWING:

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS, FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND
   LABELED ON THE AS-BUILT CONSTRUCTION PLANS IN TERMS OF STATION, OFFSET AND ELEVATION.
3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER THE SPECIFICATION (E.G., CONDUIT).
4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY.
5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH
   THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 – PLAN PREPARATION.

NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION (ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.).

THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES APPEARING ON THEM.

TWO COPIES OF THE AS-BUILT CONSTRUCTION PLANS SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT CONSTRUCTION PLANS, THE ASSOCIATED ELECTRONIC FILES SHALL BE DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR. ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED AND THE FINAL ESTIMATE APPROVED.

PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE PROJECT ENGINEER.

ROADWAY

CLEARING AND GRUBBING
ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 204 – PROOF ROLLING
THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO PROOF ROLL THE ENTIRE LENGTH OF THE TRAIL AFTER MASS GRADING HAS BEEN COMPLETED. THE CONTRACTOR SHALL REPORT ANY SUBGRADE AREAS THAT FAIL FROM PROOF ROLL TO THE ENGINEER. ALL LABOR, EQUIPMENT, TOOLS, INCIDENTALS AND MATERIALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 204 – PROOF ROLLING 3 HOURS.

ITEM 452 – 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

ITEM 451 – 8" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING ITEMS 451 8" REINFORCED CONCRETE PAVEMENT CLASS QC 1P AND ITEM 452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P AS SHOWN AND DETAILED IN THE PLANS. IN ADDITION TO THE REQUIREMENTS OF ITEM 451 AND 452, THE CONTRACTOR SHALL INCLUDE ITEM 204 SUBGRADE COMPACTION AND FURISH AND INSTALL 6" OF ITEM 304 AGGREGATE BASE, THE COSTS OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THESE ITEMS.

ALL WORK SHALL BE CUT SQUARE ON BEARING, CLOSELY FITTED AND ACCURATELY SET TO THE ESTABLISHED LINES AND LEVELS, PLUMB, LEVEL, AND TRUE AND SHALL BE RIGIDLY SECURED IN PLACE. EXTRA CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO FINISHED SURFACES DUE TO INSTALLATION. ANY WORK NOT MEETING THESE REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THIS INCLUDES ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

FENCE LENGTHS
THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 607 – FENCE, MISC.: TIMBER RAIL

THIS ITEM SHALL CONSIST OF INSTALLING A FUNCTIONAL TIMBER RAIL AS SHOWN AND DETAILED ON THE PLANS. PER ITEM 607, AND THE DETAIL ON SHEET P.29. THIS INCLUDES ALL EXCAVATION, WOOD, FASTENERS, MISCELLANEOUS HARDWARE AND MATERIALS REQUIRED TO COMPLETE INSTALLATION.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TIMBER RAIL SHOWING DIMENSIONS, DETAILS, MATERIALS, PROFILES, FINISHES, ETC., PRODUCT DATA FOR PRESERVATIVE TREATMENTS, TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION. COLOR OF OBJECT MARKERS SHALL BE CHOSEN BY ENGINEER FROM MANUFACTURER'S STANDARD COLORS.

ALL LUMBER SHALL BE #1 SOUTHERN YELLOW PINE TREATED WITH MCA PER AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) TO MEET UC4A. FACTORY MARK EACH PIECE WITH TYPE, GRADE, MILL AND GRADING AGENCY. KEEP MATERIAL DRY AT ALL TIMES. PROTECT AGAINST EXPOSURE TO WEATHER AND CONTACT WITH DAMP OR WET SURFACES. STACK TIMBERS AND DIMENSIONAL LUMBER AND PROVIDE AIR CIRCULATION WITHIN STACKS.

CONTRACTOR SHALL VERIFY LAYOUT INFORMATION AND DIMENSIONS BY FIELD MEASUREMENTS FOR TIMBER RAIL OR BENCH SHOWN ON THE DRAWINGS. DO NOT INTERRUPT UTILITY SERVICES TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED:

A. NOTIFY ENGINEER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF UTILITY SERVICES.
B. DO NOT PROCEED WITH INTERRUPTION OF UTILITY SERVICES WITHOUT ENGINEER'S WRITTEN PERMISSION.

ALL FABRICATION INCLUDING BEVELING, NOTCHING, EASING AND CUTTING SHALL BE ACCOMPLISHED PRIOR TO TREATMENT. THIS DOES NOT REFER TO FIELD CUTTING AND BORING. FIELD FABRICATION SHALL BE TREATED ACCORDING TO AWPA STANDARD M4.

THIS ITEM NEEDS TO MEET THE REQUIREMENTS OF BUY AMERICA. ALL MANUFACTURED PRODUCTS USED IN THE PROJECT MUST BE MANUFACTURED IN THE UNITED STATES ("FINAL ASSEMBLY REQUIREMENT") AND HAVE GREATER THAN 55 PERCENT OF THE MANUFACTURED PRODUCT'S COMPONENTS, BY COST, BE MINED, PRODUCED, OR MANUFACTURED IN THE UNITED STATES.

ALL EQUIPMENT, LABOR, TOOLS, MATERIAL, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 608 – 4" CONCRETE WALK, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING A 4" CONCRETE WALK PER ITEM 608 AND AS SHOWN AND DETAILED IN THE PLANS. IN ADDITION TO THE REQUIREMENTS OF ITEM 608, THE CONTRACTOR SHALL INCLUDE ITEM 204 SUBGRADE COMPACTION, FURNISH AND INSTALL 4" OF ITEM 304 AGGREGATE BASE THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 608 – CURB RAMP, AS PER PLAN
THIS ITEM OF WORK CONSISTS OF CONSTRUCTING A COMPLETE AND FUNCTIONAL CURB RAMP AS PER ITEM 608 EXCEPT FOR THE FOLLOWING:

- CONTRACTOR SHALL USE ITEM 451 8" REINFORCED CONCRETE PAVEMENT, AS PER PLAN, AS SHOWN AND DETAILED IN THE PLANS.
- DETECTABLE WARNING UNIT SHALL BE REPLACEABLE AND MADE OF POLYMER CONCRETE OR REINFORCED POLYMER COMPOSITE PER ODOT 712.14. COLOR SHALL BE BRICK RED.
- CONTRACTOR SHALL SUBMIT MANUFACTURER'S PRODUCT DATA, STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS, INSTALLATION METHODS AND AVAILABLE COLORS, STYLES, PATTERNS AND TEXTURES FOR ENGINEER'S APPROVAL AND SELECTION PRIOR TO PURCHASE. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SHOP DRAWINGS INDICATING OVERALL DIMENSIONS.

ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID. DETECTABLE WARNINGS, WHERE SHOWN, ARE PAID FOR UNDER ITEM 608 – DETECTABLE WARNING, AS PER PLAN.

ITEM 608 – DETECTABLE WARNING, AS PER PLAN
THIS ITEM OF WORK CONSISTS OF INSTALLING A DETECTABLE WARNING PER ODOT 712.14, AS SHOWN, AND DETAILED ON THE PLANS. THIS INCLUDES ALL ANCHORS, FASTENERS, DETECTABLE WARNING PANELS, MISCELLANEOUS HARDWARE AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

ITEM 608 – WALKWAY MISC.: BRICK PAVEMENT REPLACEMENT
THIS ITEM SHALL CONSIST OF SALVAGING EXISTING BRICK PAVEMENT PER ITEM 608 AND AS SHOWN AND DETAILED IN THE PLANS. THE CONTRACTOR SHALL OBSERVE INSTALLATION METHOD WHEN REMOVING AND RE-INSTALL IN THE SAME FASHION. THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. THIS ITEM SHALL BE PAID PER SF BRICK PAVEMENT REPLACED. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 608 – WALKWAY MISC.: INTEGRAL CURB AND WALK
THIS ITEM SHALL CONSIST OF CONSTRUCTING A 4" THICK CONCRETE WALK AND CURB RAMPS PER ITEM 608 AND AS SHOWN AND DETAILED IN THE PLANS. IN ADDITION TO THE REQUIREMENTS OF ITEM 608, THE CONTRACTOR SHALL INCLUDE ITEM 204 SUBGRADE COMPACTION, FURNISH, AND INSTALL 4" OF ITEM 304 AGGREGATE BASE. CONCRETE SHALL BE REINFORCED WITH WELDED WIRE MESH AS SHOWN IN DETAIL ON SHEET P.29. HAND-FORMED UP-TURNED CURB AND INTEGRAL CURB SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE PLANS ON SHEET P.22.

ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID. THE COST OF THIS ITEM SHALL BE PAID PER SQUARE FOOT OF INTEGRAL CURB SIDEWALK INSTALLED.

ITEM 608 – WALKWAY MISC.: WALK CLEANING
CONTRACTOR SHALL CLEAN ALL EXISTING SIDEWALK WITHIN WORK LIMITS. ENSURE WALK WITHIN WORK LIMITS IS CLEAR OF ALL DEBRIS. THE FOLOWWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ESTIMATING PURPOSES:

ITEM 608 – WALKWAY, MISC.: WALK CLEANING 1,222 SF

ITEM 611 – GAS VALVE ADJUSTED TO GRADE
THIS ITEM OF WORK CONSISTS OF ADJUSTING AN EXISTING GAS VALVE TO GRADE AS SHOWN AND DETAILED ON THE PLANS. THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. THIS ITEM SHALL BE PAID PER EACH GAS VALVE ADJUSTED TO GRADE. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 638 – FIRE HYDRANT ADJUSTED TO GRADE, AS PER PLAN
THIS ITEM OF WORK CONSISTS OF ADJUSTING AN EXISTING FIRE HYDRANT TO GRADE PER ITEM 638 AND AS SHOWN AND DETAILED ON THE PLANS. THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

THE CONTRACTOR SHALL ADJUST THE EXISTING HYDRANT TO GRADE AND REMOVE AND REPLACE THE EXISTING WATERLINE TO BE A MINIMUM DEPTH OF 4' BELOW PROPOSED GRADE. THIS WORK SHALL INCLUDE THE FOLLOWING:

1. REMOVAL OF APPROXIMATELY 160 LF OF EXISTING PIPE PER ITEM 202
2. INSTALLATION OF APPROXIMATELY 160 LF OF PIPE TO MATCH IN KIND, PER ITEM 638
3. INSTALLATION OF RESTRAINT COUPLINGS AT EACH PIPE END PER ITEM 638
4. INSTALLATION OF A FREEZE-PROOF HYDRANT TO MATCH IN KIND PER ITEM 638
5. INSTALLATION OF A TEE AT THE EXISTING HYDRANT PER ITEM 638.

THE CONTRACTOR SHALL ENSURE A WATER TIGHT CONNECTION OF ALL WORK INCLUDED IN THIS ITEM. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

GENERAL NOTES

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER
ESD

REVIEWER
KTL 01-19-26

PROJECT ID
21-00267-010

SHEET P.2 TOTAL 29

EROSION CONTROL

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING	1,396 SY*
659, TOPSOIL	156 CU. YD.
659, COMMERCIAL FERTILIZER	1 TON
659, WATER	8 MGAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

BEST MANAGEMENT PRACTICES

THE CONDITIONS OF THE NPDES CONSTRUCTION STORMWATER GENERAL PERMIT SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACT ON THE RECEIVING WATERS. IMPLEMENTATION AND MAINTENANCE OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

TO PROTECT AND DELINEATE THE BOUNDARY OF THE EXISTING ADJACENT WETLANDS, STREAM CHANNELS AND/OR DRAINAGE WAYS ITEM 832 – FILTER FABRIC FENCE AND ITEM 832 – TEMPORARY CONSTRUCTION FENCE WILL BE REQUIRED. THIS FILTER FABRIC FENCE AND THE TEMPORARY CONSTRUCTION FENCE ARE TO BE INSTALLED AT THE PROPOSED CONSTRUCTION LIMITS AND MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION.

THE OHIO EPA NOTICE OF INTENT WILL BE SUBMITTED TO OHIO EPA BY THE OWNER AT LEAST 21 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REGISTER AS A CO-PERMITTEE TO OHIO EPA PRIOR TO COMMENCING EARTHMOVING ACTIVITIES. SEE THE STORM WATER POLLUTION PREVENTION PLAN FOR ADDITIONAL INFORMATION.

DRAINAGE

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.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE BY ROUTING DRAINAGE FLOWS THAT ARE INTERRUPTED BY TRAIL AND ROAD CONSTRUCTION ON THE UPSLOPE SIDE OF THE TRAIL OR ROADWAY. THE CONTRACTOR SHALL MAKE MINOR GRADING ADJUSTMENTS IN THE FIELD ALONG THE PROPOSED SWALES AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

THE CONTRACTOR SHALL INSPECT ALL EXISTING CULVERTS AND REPORT CONCERNS TO THE ENGINEER PRIOR TO CONSTRUCTION.

ALL STORM PIPES SHALL BE AS NOTED ON THE PLANS. THE COST OF PIPE, EXCAVATION, BEDDING, BACKFILL, AND ASSOCIATED LABOR AND MATERIALS SHALL BE INCLUDED IN THE LINEAR FOOT COST BID FOR THE PIPE. MINIMUM COVER SHALL BE 12" FROM PIPE CROWN TO THE BOTTOM OF PROPOSED TRAIL AGGREGATE BASE.

IF A WATERMAIN IS ENCOUNTERED WITHIN THE PROJECT LIMITS, MAINTAIN A TEN-FOOT MINIMUM HORIZONTAL CLEARANCE FROM THE OUTSIDE EDGE OF THE EXISTING WATERLINE TO THE OUTSIDE EDGE OF THE PROPOSED STORM SEWER AT ALL TIMES AND AN EIGHTEEN-INCH VERTICAL CLEARANCE FROM THE EDGE OF THE PROPOSED WATER MAIN TO THE EDGE OF THE EXISTING STORM SEWER OR INLET LEAD PIPE WHERE THEY CROSS. IF MINIMUM CLEARANCES CANNOT BE PROVIDED, CONTACT THE ENGINEER FOR GUIDANCE.

REVIEW OF EXISTING DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

ITEM 611 – CATCH BASIN GRATE, AS PER PLAN

THIS ITEM OF WORK CONSISTS OF INSTALLING A CATCH BASIN GRATE PER ITEM 611 AND AS SHOWN AND DETAILED ON THE PLANS. IN ADDITION TO THE REQUIREMENTS OF ITEM 611, THE CONTRACTOR SHALL INSTALL AN ADA APPROVED BICYCLE SAFE GRATE THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

TRAFFIC CONTROL

ITEM 625 – LIGHTING MISC: LIGHT POLE REMOVED & RELOCATED

THIS ITEM SHALL CONSIST OF REMOVING AND RELOCATING A COMPLETE, FULLY FUNCTIONING LIGHT POLE AS SHOWN AND DETAILS ON THE PLANS. THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 690 – LONGITUDINAL CHANNELIZER DEVICE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A COMPLETE, FULLY FUNCTIONING LONGITUDINAL CHANNELIZER DEVICE AS SHOWN AND DETAILED IN THE PLANS. THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. THE DEVICE SHALL CONFORM TO ODOT PIS 2010180. ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

ITEM 690 SIGNING MISC.: RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY (RRFB)

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

GENERAL REQUIREMENTS:

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

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONE

NTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

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

FUNCTIONAL REQUIREMENTS:

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

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

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

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

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

MATERIALS:

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

1. RRFB INDICATIONS
   - A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
   - B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
   - C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
   - D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
   - E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
   - F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
   - G. AN LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.
   - H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

2. SIGNS
   - A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
   - B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
   - C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
   - D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT
   - A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP T [TO] TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
   - B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
   - C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS
   - A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.
   - B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.
   - C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES – 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.

5. WIRELESS RADIO
   - A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.
   - B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
   - C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON
   - A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
   - B. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE
   - A. FOR THE ONE AT STA. 5+86.88, 48.43' LT. MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.
   - B. FOR THE ONE AT STA.1+64.80, 6.96' RT. MOUNT PUSH BUTTON ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 4 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION:

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

WARRANTY:

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

MEASUREMENT:

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT:

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

RETAINING WALL

ITEM 504 – SHEET PILING LEFT IN PLACE, AS PER PLAN

THE CONTRACTOR SHALL PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05 FOR SHEET PILING LEFT IN PLACE, THE COST OF WHICH SHALL BE PAID FOR IN THE CONTRACT LUMP SUM PRICE FOR SHEET PILING LEFT IN PLACE, AS PER PLAN.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BY REGISTERED OHIO PROFESSIONAL ENGINEER, AND INCLUDE COMPUTATIONS (INCLUDING BOTH INTERNAL AND EXTERNAL STABILITY), PLAN, CROSS SECTIONS, ELEVATIONS, COMPLETE DIMENSIONS, DETAILS, MATERIAL TYPES, SIZES, QUANTITIES AND LOCATIONS. SHOP DRAWING SUBMITTAL SHALL OCCUR NO LATER THAN 45 DAYS PRIOR TO COMMENCEMENT OF WORK. NO WORK NOR ORDERING OF MATERIALS FOR THE WALL SHALL BE DONE BY THE CONTRACTOR UNTIL THE SUBMITTAL HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER. INCOMPLETE SHOP DRAWINGS OR OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.

THE FOLLOWING QUANTITIES ARE ESTIMATES THAT HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR BIDDING PURPOSES:

504E11101 STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN	5,041 SF

ITEM 870 PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN

THIS ITEM OF WORK CONSISTS OF DESIGNING AND CONSTRUCTING A COMPLETE AND FUNCTIONAL RETAINING WALL AT THE LOCATION SHOWN AND AS PER THE DETAILS IN ODOT SUPPLEMENTAL SPECIFICATION SS870 AND THESE PLANS. ALL WORK SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION SS870. REFER TO ODOT'S GEOTECHNICAL DESIGN MANUAL SECTION 1503 AND ODOT'S BRIDGE DESIGN MANUAL SECTIONS 201 AND 307 FOR MORE INFORMATION. THIS INCLUDES FURNISHING ALL DESIGN COMPUTATIONS, SHOP DRAWINGS, MATERIALS, EQUIPMENT AND LABOR.

THE CONTRACTOR SHALL HIRE AND ENGAGE A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF OHIO, TO DESIGN THE RETAINING WALLS FOR THE WALL LOCATIONS SHOWN ON THE PLANS. THE SLOPE STABILITY ANALYSIS AVAILABLE IN THE GEOTECHNICAL REPORT PREPARED BY CTL ENGINEERING, INC. ON OCTOBER 31, 2025 SHALL BE REVIEWED TO INFORM THE WALL DESIGN. ADDITIONAL SOIL SAMPLING, TESTING, ETC. MAY BE OBTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. THE RETAINING WALL LENGTH, HEIGHT AND LOCATION SHOWN ON THE PLANS ARE GRAPHICAL IN NATURE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY REVIEW THE EXISTING CONDITIONS AND DESIGN THE RETAINING WALLS THAT ARE ACCEPTABLE TO THE CITY AND ENGINEER. THE CONTRACTOR'S ENGINEER SHALL ENSURE A COMPLETELY ENGINEERED WALL SYSTEM PER SS870.

THE CONTRACTOR SHALL INSTALL AN ODOT APPROVED PREFABRICATED RETAINING WALL SYSTEMS (PRWS)
HTTPS: //WWW.TRANSPORTATION.OHIO.GOV/WORKING/ENGINEERING/GEOTECHNICAL/PRWS

THE WALL MANUFACTURER SHALL BE ODOT PRE-QUALIFIED. THE COLOR AND PATTERN OF THE WALL SHALL BE APPROVED BY THE CITY AND ENGINEER. SAMPLES FOR REVIEW AND APPROVAL SHALL BE PROVIDED PRIOR TO ANY WORK.

THE PLANS AND DETAILS SHOW THE INTENDED LOCATION AND ELEVATIONS OF THE RETAINING WALLS AND ARE APPROXIMATIONS ONLY. PRIOR TO DETAILED DESIGN, CONTRACTOR SHALL SUBMIT GENERAL LAYOUT PLAN AND PROPOSED WALL TYPE TO THE ENGINEER FOR APPROVAL. THE FINAL WALL DESIGN AND LAYOUT SHALL BE PERFORMED BY THE CONTRACTOR'S ENGINEER. ALL OF THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND SPECIFICATIONS SHALL BE FOLLOWED.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BY REGISTERED OHIO PROFESSIONAL ENGINEER, AND INCLUDE COMPUTATIONS (INCLUDING BOTH INTERNAL AND EXTERNAL STABILITY), PLAN, CROSS SECTIONS, ELEVATIONS, COMPLETE DIMENSIONS, DETAILS, MATERIAL TYPES, SIZES, QUANTITIES AND LOCATIONS. SHOP DRAWING SUBMITTAL SHALL OCCUR NO LATER THAN 45 DAYS PRIOR TO COMMENCEMENT OF WORK. NO WORK NOR ORDERING OF MATERIALS FOR THE WALL SHALL BE DONE BY THE CONTRACTOR UNTIL THE SUBMITTAL HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER. INCOMPLETE SHOP DRAWINGS OR OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.

THE CONTRACTOR SHALL INSTALL AN UNDERDRAIN THE ENTIRE LENGTH OF THE WALL SYSTEM PER SS870 TO PREVENT WATER SEEPAGE BENEATH THE WALL. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE UNDERDRAIN LAYOUT TO THE ENGINEER FOR APPROVAL.

HANDLE MATERIALS AND PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORE MATERIALS AND PRODUCTS IN MANUFACTURER'S ORIGINAL PACKAGING UNTIL READY FOR INSTALLATION. PROTECT MATERIALS AND PRODUCTS FROM IMPACTS AND ABRASION DURING STORAGE.

PAYMENT FOR THIS ITEM INCLUDES ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS, AND INCIDENTALS NECESSARY TO COMPLETE THE RETAINING WALL ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID.

THE FOLLOWING QUANTITIES ARE ESTIMATES THAT HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR BIDDING PURPOSES:

870E11001 PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN	534 SF
870E11000 WALL EXCAVATION	786 CY
870E14000 ON-SITE ASSISTANCE	5 DAYS
870E15000 PMRW INSPECTION AND COMPACTION TESTING	LS

ENVIRONMENTAL

NATIVE AMERICAN ARTIFACTS

IN THE EVENT THAT ANY NATIVE AMERICAN ARTIFACTS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP ALL WORK WITHIN 100' OF THE DISCOVERY AND CONTACT THE ODOT DISTRICT 11 ENVIRONMENTAL COORDINATOR, THOMAS STRATTON AT 330-308-3992. ODOT WILL THEN CONSULT WITH THE SHAWNEE TRIBE REGARDING THE ARTIFACTS AND HOW THE PROJECT CAN PROCEED.

ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ENVIRONMENTAL WORK

BASED ON ENVIRONMENTAL STUDIES WITH TESTING CONDUCTED BY ODOT AND/OR FOR REGULATORY AGENCIES PETROLEUM CONTAMINATED SOILS WILL BE ENCOUNTERED DURING THE EXCAVATIONS FOR CONSTRUCTION ACTIVITIES AT THE SITES LISTED BELOW. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS AT THE AFOREMENTIONED LOCATION SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS.

1. KENT STATE UNIVERSITY, 400 BROADWAY ST.

ALL EXCAVATED MATERIALS WITHIN THE AFOREMENTIONED LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE SUSPECTED CONTAMINATED SOILS ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE WILL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH THE ORIGINAL SOILS. AN IMPERMEABLE MEMBRANE WILL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. AS A TEMPORARY STORAGE ALTERNATIVE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED SOILS INTO TRUCKS. OR AS A THIRD ALTERNATIVE, THE CONTRACTOR MAY PLACE THE MATERIAL IN LEAK-PROOF, COVERED CONTAINERS PROVIDED BY THE CONTRACTOR. THE MATERIAL WILL REMAIN ON-SITE UNTIL ANALYTICAL RESULTS ARE RECEIVED BY THE ENGINEER.

THIS MATERIAL WILL BE PROPERLY TESTED (FOR DISPOSAL), TRANSPORTED, AND DISPOSED OF IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY.

IF EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR WILL DEWATER, CONTAINERIZE, TEST THE WATER (FOR DISPOSAL) AND DISPOSE OF BY METHODS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL OBTAIN ALL THE REQUIRED PERMITS AND /OR AUTHORIZATIONS NEEDED TO STORE, TRANSPORT AND DISPOSE OF THE WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL REGULATIONS.

THE CONTRACTOR WILL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE, TEST (FOR DISPOSAL), TRANSPORT, AND DISPOSAL; INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE AFOREMENTIONED LOCATION. PAYMENT FOR THIS WORK WILL BE MADE AT THE CONTRACT PRICE BID PER TON, PER GALLON, PER CUBIC YARD AND PER UST. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E65016 ITEM SPECIAL – WORK INVOLVING PETROLEUM CONTAMINATED SOIL	100 TON
690E65024 ITEM SPECIAL – WORK INVOLVING REGULATED WATER	500 GAL

GENERAL NOTES

DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER ESD

REVIEWER KTL 01-19-26

PROJECT ID 21-00267-010

SHEET P.3 | TOTAL 29

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 10/23/2026 TIME: 2:04:48 PM
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ITEM 614 – MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT, EXCEPT WHEN TRAFFIC IS MAINTAINED USING FLAGGERS FOLLOWING ODOT SCD MT–97.10

THE CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WORK. IN ORDER TO MAINTAIN SAFE VEHICULAR, PEDESTRIAN AND BICYCLE SAFETY, AS WELL AS WORKER SAFETY, IT IS RECOMMENDED THAT ADVANCE WARNING SIGNAGE AND A FLAGGER BE UTILIZED WHEN WORK TAKES PLACE IN THE PUBLIC RIGHT–OF–WAY.

THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786–2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL FLAGS, DRUMS, BARRICADES, SIGNS, SIGNS SUPPORTS, AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS, LAW ENFORCEMENT OFFICER(S) (LEO), AND INCIDENTALS RELATED TO THERETO.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 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.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE:

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMPS & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS < 2 WEEKS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)	GENERAL/REGULAR ELECTION DAY ((NOV)
LABOR DAY	THANKSGIVING
MEMORIAL DAY	CHRISTMAS (OBSERVED)
FOURTH OF JULY (OBSERVED)	(OTHER HOLIDAY OR SPECIAL EVENT)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 8 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

MOT NOTES

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:11:49 PM
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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER
ESD

REVIEWER
KTL 01-19-26

PROJECT ID
21-00267-010

SHEET P.3A | TOTAL 29

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
2	3	5D	5E	6A	21	OFFICE CALCS							01/ENH						
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
		1,805											1,805	202	23000	1,805	SY	PAVEMENT REMOVED	
		13,932											13,932	202	30000	13,932	SF	WALK REMOVED	
		1,317											1,317	202	32000	1,317	FT	CURB REMOVED	
		70											70	202	34900	70	FT	PIPE REMOVED	
		2											2	202	58000	2	EACH	MANHOLE REMOVED	
		2											2	202	58200	2	EACH	INLET REMOVED	
		410											410	202	75000	410	FT	FENCE REMOVED	
		13			1,209								1,222	203	10000	1,222	CY	EXCAVATION	
		2			111								113	203	20000	113	CY	EMBANKMENT	
		373											373	204	10000	373	SY	SUBGRADE COMPACTION	
3													3	204	45000	3	HOUR	PROOF ROLLING	
		25											25	606	15050	25	FT	GUARDRAIL, TYPE MGS	
		372											372	607	23000	372	FT	FENCE, TYPE CLT	
		12											12	607	98000	12	FT	FENCE, MISC.:TIMBER RAIL	P.2
		12,802											12,802	608	10001	12,802	SF	4" CONCRETE WALK, AS PER PLAN	P.2
		2,862											2,862	608	52000	2,862	SF	CURB RAMP	
		70											70	608	52001	70	SF	CURB RAMP, AS PER PLAN	P.2
		20											20	608	53021	20	SF	DETECTABLE WARNING, AS PER PLAN	P.2
		28											28	608	98000	28	SF	WALKWAY, MISC.:BRICK PAVEMENT REPLACEMENT	P.2
1,222													1,222	608	98000	1,222	SF	WALKWAY, MISC.:WALK CLEANING	P.2
		408											408	608	98000	408	SF	WALKWAY, MISC.:INTEGRAL CURB AND WALK	P.2
LS													LS	SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	P.2
LS													LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	P.2
																		EROSION CONTROL	
	156												156	659	00300	156	CY	TOPSOIL	
	1,396												1,396	659	10000	1,396	SY	SEEDING AND MULCHING	
	1												1	659	20000	1	TON	COMMERCIAL FERTILIZER	
	8												8	659	35000	8	MGAL	WATER	
	100												100	SPECIAL	69065016	100	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	P.3
	500												500	SPECIAL	69065024	500	GAL	WORK INVOLVING REGULATED WATER	P.3
				LS									LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
				LS									LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
				LS									LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
				5,000									5,000	832	30000	5,000	EACH	EROSION CONTROL	
																		DRAINAGE	
			5										5	611	02400	5	FT	8" CONDUIT, TYPE D	
			13										13	611	06400	13	FT	15" CONDUIT, TYPE D	
			10										10	611	07400	10	FT	18" CONDUIT, TYPE B	
			40										40	611	07600	40	FT	18" CONDUIT, TYPE C, 706.02	
			5										5	611	08900	5	FT	21" CONDUIT, TYPE B	
			11										11	611	09400	11	FT	21" CONDUIT, TYPE D	
			11										11	611	10900	11	FT	24" CONDUIT, TYPE D	
			25										25	611	13900	25	FT	30" CONDUIT, TYPE D	
			1										1	611	98180	1	EACH	CATCH BASIN, NO. 3A	
			4										4	611	98470	4	EACH	CATCH BASIN, NO. 2-2B	
			8										8	611	98630	8	EACH	CATCH BASIN ADJUSTED TO GRADE	
			1										1	611	98645	1	EACH	CATCH BASIN GRATE, AS PER PLAN	P.3
			2										2	611	98890	2	EACH	INLET, NO. 2-A-16	
			2										2	611	99574	2	EACH	MANHOLE, NO. 3	
			3										3	611	99654	3	EACH	MANHOLE ADJUSTED TO GRADE	
			2										2	SPECIAL	61199700	2	EACH	GAS VALVE BOX ADJUSTED TO GRADE	P.2
																		PAVEMENT	
		1,406											1,406	255	20000	1,406	FT	FULL DEPTH PAVEMENT SAWING	
						46							46	301	56000	46	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
						303							303	304	20000	303	CY	AGGREGATE BASE	
						109							109	407	10000	109	GAL	TACK COAT	
						69							69	441	70000	69	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	

GENERAL SUMMARY

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 10/23/2026 TIME: 2:10:56 PM
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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.4
TOTAL	29

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2	3	5D	5E	6A	21	OFFICE CALCS							01/ENH		EXT	TOTAL			
						85							85	441	70200	85	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)	
		71											71	451	13011	71	SY	8" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	P.2
		334											334	452	12011	334	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	P.2
		1,665											1,665	609	26000	1,665	FT	CURB, TYPE 6	
																		WATER WORK	
			2										2	638	10400	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
			1										1	638	10401	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE, AS PER PLAN	P.15
			1										1	638	10600	1	EACH	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	
			2										2	638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE	
																		LIGHTING	
	1												1	625	98000	1	EACH	LIGHTING, MISC.: LIGHT POLE REMOVED & RELOCATED	P.3
																		TRAFFIC CONTROL	
			392										392	630	03100	392	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			108										108	630	80100	108	SF	SIGN, FLAT SHEET	
			2										2	630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			9										9	630	85100	9	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			2										2	SPECIAL	69098000	2	EACH	RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY (RRFB)	P.3
			0.1										0.1	644	00100	0.1	MILE	EDGE LINE, 4"	
			0.2										0.2	644	00300	0.2	MILE	CENTER LINE	
			13										13	644	00500	13	FT	STOP LINE	
			441										441	644	00630	441	FT	CROSSWALK LINE, 24"	
			155										155	644	00700	155	FT	TRANSVERSE/DIAGONAL LINE	
			1										1	644	01120	1	EACH	SCHOOL SYMBOL MARKING, 120"	
			238										238	644	01200	238	FT	PARKING LOT STALL MARKING	
			738										738	644	30000	738	FT	REMOVAL OF PAVEMENT MARKING	
			1										1	644	30020	1	EACH	REMOVAL OF PAVEMENT MARKING	
			112										112	SPECIAL	69098100	112	FT	LONGITUDINAL CHANNELIZER DEVICE	P.3
																		RETAINING WALLS	
	5,041												5,041	504	11101	5,041	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN	P.3
	534												534	870	10001	534	SF	PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN	P.3
	786												786	870	11000	786	CY	WALL EXCAVATION	
	5												5	870	14000	5	DAY	ON-SITE ASSISTANCE	
	LS												LS	870	15000	LS		PMRW INSPECTION AND COMPACTION TESTING	
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 10/23/2026 TIME: 2:10:57 PM
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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER: ESD
REVIEWER: KTL 01-19-26
PROJECT ID: 21-00267-010
SHEET: P.5 TOTAL: 29

SHEET NO.	REFERENCE NO.	STATION		SIDE	202							203		204	255	451	452	606	607		608						609
					PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	PIPE REMOVED	INLET REMOVED	MANHOLE REMOVED	FENCE REMOVED	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	8" REINFORCED CONCRETE, CLASS QC1P, AS PER PLAN	8" NON-REINFIRCED CONCRETE, CLASS QC1P, AS PER PLAN	GUARDRAIL, TYPE MGS	FENCE, TYLE CLT	FENCE, MISC: TIMBER RAIL	4" CONCRETE WALK, AS PER PLAN	CURB RAMP	CURB RAMP, AS PER PLAN	WALKWAY MISC,: INTEGRAL CURB AND WALK	DETECTABLE WARNING, AS PER PLAN	WALKWAY MISC - BRICK PAVEMENT REPLACEMENT	CURB, TYPE 6
		FROM	TO		SY	SF	FT	FT	EACH	EACH	FT	CY	CY	SY	FT	SY	SY	FT	FT	FT	SF	SF	SF	SF	SF	SF	FT
P.8	CR-1	+15.34	+25.89	RT/LT										10								91					
P.8	CR-2	+49.00	+59.77	RT/LT										10								88					
P.8	CR-3	+82.85	1+00.69	RT/LT										20								179					
P.8	CR-4	3+06.47	3+21.96	RT/LT										16								145					
P.9	CR-5	6+76.07	6+78.80	LT											10										10		
P.9	CR-6	6+88.31	6+90.71	LT											10										10		
P.9	CR-7	6+61.63	6+72.76	LT																			70				
P.9	CR-8	6+95.81	6+99.78	LT										4								39					
P.10	CR-9	12+06.00	12+11.23	LT										3								27					
P.10	CR-10	12+25.36	12+37.53	RT/LT										13								113					
P.10	CR-11	12+73.00	12+92.00	RT/LT										23								208					
P.11	CR-12	18+02.07	18+12.48	RT/LT										14								122					
P.12	CR-13	18+30.79	18+38.61	RT/LT										10								94					
P.12	CR-14	22+27.80	22+33.41	RT/LT										8								69					
P.12	CR-15	22+45.74	22+51.64	RT/LT										7								62					
P.13	CR-16	23+51.80	23+60.71	RT/LT										23								207					
P.13	CR-17	24+18.42	24+19.67	RT/LT										61								550					
P.13	CR-18	24+61.02	24+64.40	RT/LT										51								458					
P.14	CR-19	28+38.18	28+38.41	RT/LT										10								86					
P.14	CR-20	28+59.16	28+65.69	RT/LT										10								93					
P.14	CR-21	29+57.07	29+63.47	RT/LT										13								120					
P.14	CR-22	29+84.89	29+94.71	RT/LT										12								111					
P.8	DR-1	+09.10	+45.39	RT/LT													78										
P.10	DR-2	10+18.04	10+51.25	RT/LT													107										
P.12	DR-3	19+91.33	20+09.25	RT													26										
P.12	DR-4	20+36.33	20+58.41	RT													33										
P.12	DR-5	22+11.65	21+92.79	RT/LT													36										
P.12	DR-6	22+33.41	22+50.00	RT/LT													30										
P.14	DR-7	28+42.51	28+63.66	RT/LT													24										
P.8	C-1	+45.39	+63.13	RT/LT																							58
P.9	C-2	6+16.47	9+50.00	LT																							369
P.9	C-3	6+68.78	6+92.59	LT																							71
P.9	C-4	6+75.84	6+88.82	LT																							33
P.9	C-5	6+78.68	6+90.87	LT																							27
P.10	C-6	9+50.00	10+89.02	LT																							148
P.10	C-7	9+98.74	10+16.77	LT																							43
P.10	C-8	10+56.45	10+72.34	LT																							42
P.10	C-9	12+19.45	12+30.67	LT																							20
P.12	C-10	19+28.16	20+87.31	RT																							178
P.12	C-11	20+66.67	20+77.60	RT																							11
P.12	C-12	21+73.87	22+50.00	RT																							79
P.12	C-13	22+46.20	22+50.00	LT																							4
P.13	C-14	22+50.00	22+69.75	LT																							20
P.13	C-15	22+50.00	22+70.96	RT																							25
P.13	C-16	27+44.62	26+88.56	LT																							56
P.14	C-17	28+79.74	29+52.18	LT																							114
P.14	GR-1	30+26.32	30+37.74	LT																12							
P.8	F-1	3+80.64	5+50.00	RT															176								
P.9	F-2	5+50.00	7+63.08	RT															196								
SUBTOTALS CARRIED TO SHEET P.5D					0	0	0	0	0	0	0	0	0	318	20	0	334	0	372	12	0	2862	70	0	20	0	1298

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:12:09 PM
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ROADWAY SUBSUMMARY

DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER
ESD

REVIEWER
KTL 01-19-26

PROJECT ID
21-00267-010

SHEET P.5A | TOTAL 29

SHEET NO.	REFERENCE NO.	STATION		SIDE	202							203		204	255	451	452	606	607		608						609
					PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	PIPE REMOVED	INLET REMOVED	MANHOLE REMOVED	FENCE REMOVED	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	8" REINFORCED CONCRETE, CLASS QC1P, AS PER PLAN	8" NON-REINFIRCED CONCRETE, CLASS QC1P, AS PER PLAN	GUARDRAIL, TYPE MGS	FENCE, TYLE CLT	FENCE, MISC: TIMBER RAIL	4" CONCRETE WALK, AS PER PLAN	CURB RAMP	CURB RAMP, AS PER PLAN	WALKWAY MISC,: INTEGRAL CURB AND WALK	DETECTABLE WARNING, AS PER PLAN	WALKWAY MISC - BRICK PAVEMENT REPLACEMENT	CURB, TYPE 6
		FROM	TO		SY	SF	FT	FT	EACH	EACH	FT	CY	CY	SY	FT	SY	SY	FT	FT	FT	SF	SF	SF	SF	SF	SF	FT
P.8	J-1	+00.00		RT/LT											5												
P.8	J-2	+17.23	+20.60	RT											13												
P.9	J-3	6+16.47	9+50.00	LT											390												
P.9	J-4	6+64.91	6+99.97	LT											104												
P.9	J-5	6+96.13	6+97.95	LT											6												
P.9	J-6	6+98.23	7+01.40	LT											6												
P.10	J-7	9+50.00	10+91.03	LT											150												
P.10	J-8	10+85.43	10+86.24	RT/LT											13												
P.10	J-9	11+94.35	11+94.70	RT/LT											13												
P.10	J-10	12+26.65	12+41.43	RT											15												
P.10	J-11	12+78.40	12+85.42	RT											8												
P.10	J-12	12+97.63	12+97.70	RT/LT											8												
P.11	J-13	16+30.91	16+30.97	RT/LT											12												
P.11	J-14	16+75.82	16+75.98	RT/LT											11												
P.11	J-15	18+01.71	18+02.07	RT/LT											11												
P.11	J-16	18+46.40	18+58.46	RT/LT											23												
P.12	J-17	19+28.11	19+28.15	RT/LT											11												
P.12	J-18	19+28.15	20+87.30	RT/LT											193												
P.12	J-19	19+38.66	19+50.07	LT/RT											12												
P.12	J-20	19+92.42	20+05.27	RT											24												
P.12	J-21	20+37.22	20+54.46	RT/LT											28												
P.12	J-22	21+51.74	21+51.76	RT/LT											11												
P.12	J-23	21+51.74	22+50.00	RT											86												
P.13	J-24	22+50.02	22+72.96	RT/LT											28												
P.13	J-25	22+76.65	22+76.74	RT/LT											9												
P.13	J-26	23+51.75	23+51.80	RT/LT											9												
P.13	J-27	23+60.71	23+69.40	LT											10												
P.13	J-28	24+02.61	24+12.69	LT											14												
P.13	J-29	24+14.06	24+19.67	LT											11												
P.13	J-30	24+56.68	24+64.40	RT											12												
P.13	J-31	27+11.18	27+33.29	RT											22												
P.15	J-32	34+67.38	35+58.55	LT											118			25									
P.9	PV-1	6+32.18	6+91.69	LT												71											
P.8	R-1	+00.00	+26.37	RT/LT		58																					
P.8	R-2	+15.34	+26.37	RT/LT			14																				
P.8	R-3	+17.23	+52.67	RT/LT	77																						
P.8	R-4	+52.67	+71.27	RT/LT		112																					
P.8	R-5	3+06.47		RT/LT			8																				
P.8	R-6	3+68.03	5+50.00	RT/LT											194												
P.9	R-7	5+50.00	7+63.17	RT/LT											216												
P.9	R-8	6+16.23	9+50.00	RT/LT	546	693																					
P.9	R-9	6+16.50	9+50.00	LT			346																				
P.9	R-10	6+67.92	6+98.05	LT		436																					
P.9	R-11	6+68.74	6+99.97	LT	22																						
P.9	R-12	6+87.22	6+94.62	RT/LT				9	1																		
P.9	R-13	6+92.58	6+68.77	LT			86																				
P.9	R-14	6+95.81	6+98.23	LT			7																				
P.9	R-15	6+96.13	7+02.73	LT		83																					
SUBTOTALS CARRIED TO SHEET P.5D					645	1382	461	9	1	0	410	0	0	0	1386	71	0	25	0	0	0	0	0	0	0	0	0

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: ##### DATE: 8/7/2026 TIME: 5:12:14 PM
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ROADWAY SUBSUMMARY

DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER ESD

REVIEWER KTL 01-19-26

PROJECT ID 21-00267-010

SHEET P.5B | TOTAL 29

ROADWAY SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION		SIDE	202							203		204	255	451	452	606	607		608							609
					PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	PIPE REMOVED	INLET REMOVED	MANHOLE REMOVED	FENCE REMOVED	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	8" REINFORCED CONCRETE, CLASS QC1P, AS PER PLAN	8" NON-REINFIRCED CONCRETE, CLASS QC1P, AS PER PLAN	GUARDRAIL, TYPE MGS	FENCE, TYLE CLT	FENCE, MISC: TIMBER RAIL	4" CONCRETE WALK, AS PER PLAN	CURB RAMP	CURB RAMP, AS PER PLAN	WALKWAY MISC,: INTEGRAL CURB AND WALK	DETECTABLE WARNING, AS PER PLAN	WALKWAY MISC - BRICK PAVEMENT REPLACEMENT	CURB, TYPE 6
		FROM	TO		SY	SF	FT	FT	EACH	EACH	FT	CY	CY	SY	FT	SY	SY	FT	FT	FT	SF	SF	SF	SF	SF	SF	FT
P.10	R-16A	9+53.94	9+72.91	LT				20		1																	
P.10	R-16B	9+72.91	9+77.85	LT				14		1																	
P.10	R-17	9+78.71		RT				7	1																		
P.10	R-18	9+72.91	9+92.91	LT				20																			
P.10	R-19	9+50.00	10+89.02	RT/LT			138																				
P.10	R-20	9+50.00	10+91.03	RT	300	366																					
P.10	R-21	10+05.24	10+86.24	RT/LT		456																					
P.10	R-22	11+94.35	12+41.43	RT/LT		988																					
P.10	R-23	12+19.45	12+37.29	RT/LT			64																				
P.10	R-24	12+73.56	12+97.70	RT/LT		482																					
P.10	R-25	12+73.71	12+73.60	RT			7																				
P.10	R-26	12+76.54	12+79.76	LT			5																				
P.11	R-27	16+30.97	16+75.82	RT/LT		536																					
P.11	R-28	18+01.71	18+12.48	RT/LT		122																					
P.11	R-29	18+29.57	18+58.46	RT/LT		252																					
P.12	R-30	19+25.91	20+87.32	LT	166																						
P.12	R-31	19+28.11	19+50.06	RT/LT		220																					
P.12	R-32	19+28.15	20+87.31	LT			166																				178
P.12	R-33	19+91.33	20+06.33	LT		82																					
P.12	R-34	20+36.33	20+56.33	LT		111																					
P.12	R-35	21+51.76	22+33.83	RT/LT		893																					
P.12	R-36	21+69.79	22+50.00	RT/LT	101																						
P.12	R-37	21+73.87	22+31.32	LT			60																				104
P.12	R-38	21+96.76	22+30.37	RT/LT		380																					
P.12	R-39	22+47.53	22+50.00	RT/LT			11																				
P.13	R-40	22+47.53	22+76.74	RT/LT		263																					
P.13	R-41	22+50.00	22+70.96	LT			21																				
P.13	R-42	22+50.00	22+72.96	LT	18																						
P.13	R-43	23+51.75	23+67.73	RT/LT		206																					
P.13	R-44	23+57.62	23+69.97	RT/LT			18																				
P.13	R-45	24+01.96	24+20.34	RT/LT			25																				
P.13	R-46	24+02.60	24+19.64	RT/LT		549																					
P.13	R-47	24+56.65	27+11.23	RT/LT		3131																					
P.13	R-48	24+57.01	24+69.49	RT/LT			21																				
P.13	R-49	26+88.55	27+39.15	RT/LT	66																						
P.13	R-50	26+88.55	27+11.96	RT/LT			39																				
P.13	R-51	27+33.00	27+50.00	RT/LT		206																					
P.14	R-52	27+50.00	28+46.86	RT/LT		1188																					
P.14	R-53	28+45.21	28+59.19	RT/LT	19																						
P.14	R-54	28+59.19	29+65.47	RT/LT		1194																					
P.14	R-55	28+85.43	29+51.26	RT	159																						
P.14	R-56	28+88.60	29+51.76	RT			95																				
P.14	R-57	29+57.24	29+64.02	RT/LT			14																				
P.14	R-58	29+58.61	29+89.94	RT			8																				
P.14	R-59	30+02.53	31+48.66	RT/LT		925																					
P.14	R-60	31+48.42	31+48.66	LT			4																				
P.14	R-61	31+97.58	31+98.68	LT			5																				
P.15	R-62	32+60.48	34+13.52	RT			155																				
P.15	R-63	34+67.38	36+12.33	RT/LT	331																						
SUBTOTALS CARRIED TO SHEET P.5D					1160	12550	856	61	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.5C
TOTAL	29

ROADWAY SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION		SIDE	202							203		204	255	451	452	606	607		608						609
					PAVEMENT REMOVED	WALK REMOVED	CURB REMOVED	PIPE REMOVED	INLET REMOVED	MANHOLE REMOVED	FENCE REMOVED	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	8" REINFORCED CONCRETE, CLASS QC1P, AS PER PLAN	8" NON-REINFIRCED CONCRETE, CLASS QC1P, AS PER PLAN	GUARDRAIL, TYPE MGS	FENCE, TYLE CLT	FENCE, MISC: TIMBER RAIL	4" CONCRETE WALK, AS PER PLAN	CURB RAMP	CURB RAMP, AS PER PLAN	WALKWAY MISC,: INTEGRAL CURB AND WALK	DETECTABLE WARNING, AS PER PLAN	WALKWAY MISC - BRICK PAVEMENT REPLACEMENT	CURB, TYPE 6
		FROM	TO		SY	SF	FT	FT	EACH	EACH	FT	CY	CY	SY	FT	SY	SY	FT	FT	FT	SF	SF	SF	SF	SF	SF	FT
P.8	SW-1	-+00.97	+07.50	RT/LT																	71						
P.8	SW-2	+51.75	+59.10	RT																	69						
P.8	SW-3	+51.90	+74.85	RT/LT																	230						
P.8	SW-4	1+08.53	1+62.52	RT/LT								13	2	55										490			
P.9	SW-5	6+48.04	9+50.00	LT																	1519						
P.9	SW-6	6+76.07	6+90.71	LT																	150						
P.9	SW-7	6+93.13	7+02.73	LT																	79						
P.10	SW-8	9+50.00	9+90.82	LT																	184						
P.10	SW-9	9+90.82	10+22.01	LT																	238						43
P.10	SW-10	10+51.25	10+86.24	RT/LT																	796						42
P.10	SW-11	11+94.35	12+41.43	RT/LT																	834						
P.10	SW-12	12+38.01	12+40.46	RT																						13	
P.10	SW-13	12+78.12	12+97.70	RT/LT																	272						
P.11	SW-14	16+30.91	16+75.82	RT/LT																	536						
P.11	SW-15	18+38.61	18+58.46	RT/LT																	158						
P.12	SW-16	19+28.11	19+50.07	RT/LT																	192						
P.12	SW-17	20+62.67	20+77.61	LT																	54						
P.12	SW-18	21+51.76	21+96.76	RT/LT																	510						
P.12	SW-19	22+11.65	22+27.85	RT/LT																	180						
P.13	SW-20	22+51.64	22+76.74	RT/LT																	247						
P.13	SW-21	24+04.05	24+05.61	RT																						15	
P.13	SW-22	24+83.86	27+50.00	RT/LT																	3190						
P.14	SW-23	27+50.00	28+46.00	RT/LT																	1216						
P.14	SW-24	28+67.73	29+65.47	RT/LT																	1022						
P.15	SW-25	36+10.39	36+58.79	RT/LT																	791						
P.8	TR-1	3+77.37	5+50.00	RT																	188						
P.9	TR-2	5+50.00	6+15.38	RT																	76						
SUBTOTALS, THIS SHEET					0	0	0	0	0	0	0	13	2	55	0	0	0	0	0	0	12802	0	0	490	0	28	85
SUBTOTALS FROM SHEET P.5A					0	0	0	0	0	0	0	0	0	318	20	0	334	0	372	12	0	2862	70	0	20	0	1298
SUBTOTALS FROM SHEET P.5B					645	1382	461	9	1	0	410	0	0	0	1386	71	0	25	0	0	0	0	0	0	0	0	0
SUBTOTALS FROM SHEET P.5C					1160	12550	856	61	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282
TOTALS CARRIED TO GENERAL SUMMARY					**1805**	**13932**	**1317**	**70**	**2**	**2**	**410**	**13**	**2**	**373**	**1406**	**71**	**334**	**25**	**372**	**12**	**12802**	**2862**	**70**	**408**	**20**	**28**	**1665**

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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Environmental Design Group
The community impact people.
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envdesigngroup.com

DESIGNER
ESD

REVIEWER
KTL 01-19-26

PROJECT ID
21-00267-010

SHEET P.5D | TOTAL 29

DRAINAGE SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	611														
					6" CONDUIT, TYPE D	15" CONDUIT, TYPE D	18" CONDUIT, TYPE B	18" CONDUIT, TYPE C 706.02	21" CONDUIT, TYPE B	21" CONDUIT, TYPE D	24" CONDUIT, TYPE D	30" CONDUIT, TYPE D	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 2-2B	CATCH BASIN ADJUSTED TO GRADE	CATCH BASIN GRATE, AS PER PLAN	INLET, NO. 2-A-16	MANHOLE NO. 3	MANHOLE ADJUSTED TO GRADE	GAS VALVE BOX ADJUSTED TO GRADE
		FROM	TO		FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
P.8	D-1	0+28.15		LT											1	1				
P.8	D-2	3+18.52		LT											1					
P.9	D-3	6+89.88	6+95.98	LT		8											1		1	
P.9	D-4	7+48.73		LT															1	
P.9	D-5	8+24.52		LT															1	
P.10	D-6	9+53.94	9+93.14	LT/RT	5	5				11	11	25						1		
P.10	D-7	9+73.60		LT					5								1			
P.10	D-8	9+78.25	9+93.14	LT/RT														1		
P.10	D-9	10+78.13		LT			10						1							
P.10	D-10	10+38.42		RT																1
P.12	D-11	19+84.75		LT				10						1						
P.12	D-12	20+29.55		LT				10						1						
P.12	D-13	20+59.78		LT				10						1						
P.12	D-14	21+87.41		LT				10						1						
P.13	D-15	23+52.49		LT											1					
P.13	D-16	24+73.69		LT											1					
P.13	D-17	27+13.84		RT											1					
P.13	D-18	27+32.39		LT											1					
P.13	D-19	24+44.24		LT											1					
P.14	D-20	28+14.97		LT																1
P.15	D-21	35+71.79		RT											1					
TOTALS CARRIED TO GENERAL SUMMARY					5	13	10	40	5	11	11	25	1	4	8	1	2	2	3	2

WATER WORK SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	638			
					FIRE HYDRANT ADJUSTED TO GRADE	FIRE HYDRANT ADJUSTED TO GRADE, AS PER PLAN	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	VALVE BOX ADJUSTED TO GRADE
		FROM	TO		EACH	EACH	EACH	EACH
P.12	W-1	19+49.68		LT	1			
P.12	W-2	19+50.39		LT				1
P.13	W-3	23+55.71		LT	1			
P.14	W-4	28+27.42		LT				1
P.14	W-5	28+77.99		RT			1	
P.15	W-6	35+91.78		RT		1		
TOTALS CARRIED TO GENERAL SUMMARY					2	1	1	2

TRAFFIC CONTROL SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	630					644									690	
					GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	EDGE LINE	CENTER LINE	STOP LINE	CROSSWALK LINE, 24"	TRANSVERSE/ DIAGONAL LINE	SCHOOL SYMBOL MARKING, 120"	PAVEMENT LOT STALL MARKING	REMOVAL OF PAVEMENT MARKING	REMOVAL OF PAVEMENT MARKING	RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY (RRFB)	LONGITUDINAL CHANNELIZER DEVICE
		FROM	TO		FT	SF	EACH	EACH	FT	FT	FT	FT	FT	EACH	FT	FT	EACH	EACH	FT
P.8	M-1	+96.16	1+10.65	LT/RT								33							
P.8	M-2	1+67.62	1+98.79	LT/RT								60							
P.8	M-3	1+85.68	1+98.79	RT						96						65			
P.8/P.9	M-4	1+85.75	6+49.82	LT						445									
P.8	M-5	1+80.47	2+00.00	RT					74				86						68
P.8	M-6	2+03.82	3+54.51	LT					147				30						44
P.9	M-7	6+63.68		LT												14			
P.9/P.10	M-8	6+63.68	10+68.78	LT												441			
P.9	M-9	6+68.06	6+77.81	LT							13	30							
P.9/P.10	M-10	6+77.81	10+65.88	LT						416									
P.9	M-11	6+77.81	9+50.00	LT								20							
P.9	M-12	8+14.73		LT										1			1		
P.9/P.10	M-13	7+92.69	9+68.69	LT											98				
P.10	M-14	11+41.70	11+70.35	LT						29						29			
P.10	M-15	12+37.86	12+74.27	LT/RT								60							
P.11	M-16	18+12.60	18+29.32	LT/RT								30							
P.12	M-17	20+70.54	20+85.32	LT									39						
P.12	M-18	20+90.43	21+70.51	LT												49			
P.12	M-19	20+70.54	21+54.82	RT											32				
P.12	M-20	22+33.83	22+45.68	LT/RT								30							
P.13	M-21	23+66.08	24+03.35	LT/RT								60				68			
P.13	M-22	24+19.88	24+57.52	LT/RT								70				72			
P.14	M-23	28+75.10	29+36.21	RT											108				
P.14	M-24	29+62.07	29+85.79	LT/RT								48							
P.8/P.22	S-1	+08.74		RT		7													
P.8/P.22	S-2	+14.11	+15.27	RT	14			1											
P.8/P.22	S-3	+89.72		RT	14	2													
P.8/P.22	S-4	1+10.52		LT	14	2													
P.8/P.22	S-5	1+22.16	1+26.05	LT	14			1											
P.8/P.22	S-6	1+54.53		LT	14	5													
P.8/P.22	S-7	1+98.79		RT	14	2													
P.8/P.22	S-8	3+09.14		RT	14	5													
P.8/P.22	S-9	3+11.42		RT	14	2													
P.9	S-10	6+18.86		RT	14	2													
P.9	S-11	6+50.00		RT		4													
P.9	S-12	6+69.11	6+81.55	LT	14			1											
P.9	S-13	6+96.03		LT	14	8													
P.9	S-14	7+88.58		LT	14	2													
P.10	S-15	10+95.19		LT		2													
P.10	S-16	12+20.47		LT	14	4													
P.10	S-17	12+76.64		RT	14	4													
P.10	S-18	12+80.40	12+80.40	LT	14			1											
P.10	S-19	12+92.54		LT		4													
P.11	S-20	16+52.19		LT		5													
P.11	S-21	16+83.04		LT		3													
P.11	S-22	17+27.97		LT		3													
P.12	S-23	18+94.69	18+94.69	LT		3													
P.12	S-24	19+32.61	19+32.61	LT	14			1											
P.12	S-25	20+25.40		LT	14	3													
P.12	S-26	20+32.43		LT			1												
P.12	S-27	20+89.01	21+08.22	LT	14			1											
P.13/P.26	S-28	24+03.93	24+03.93	RT	14			1											
P.13/P.26	S-29	24+08.00		RT	14	6													
P.13	S-30	24+57.01	24+57.01	RT	14			1											
P.13	S-31	25+76.22		LT		2													
P.14	S-32	28+78.35		LT			1												
P.14/P.28	S-33	28+97.85		RT	14	2													
P.14/P.28	S-34	29+33.35		RT	14	2													
P.14	S-35	29+86.95	29+86.95	LT	14			1											
P.14	S-36	29+89.36		LT		3													
P.14	S-37	30+33.45		LT	14	3													
P.15	S-38	34+66.77		LT	14	4													
P.15	S-39	34+73.08		LT	14	4													
P.15	S-40	35+71.77		LT	14	6													
P.15	S-41	36+62.72		LT		7													
P.8/P.22	SG-1	1+64.80		RT														1	
P.8/P.22	SG-2	3+09.14		RT														1	
SUBTOTAL					392	108	2	9	221	986	13	441	155	1	238	738	1	2	112
TOTALS CARRIED TO GENERAL SUMMARY					392	108	2	9	0.1	0.2	13	441	155	1	238	738	1	2	112
									MILE	MILE									

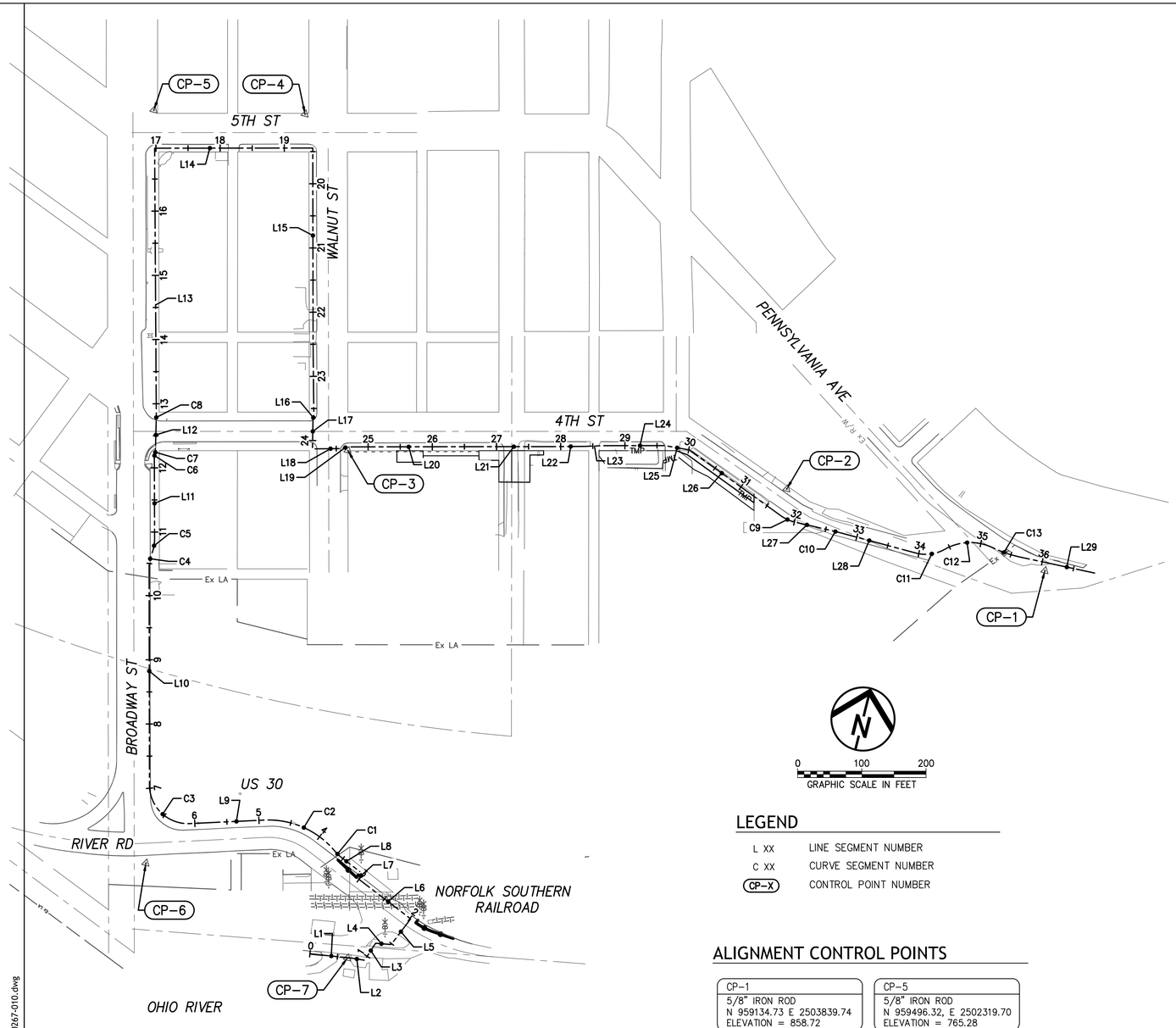
DRAINAGE, WATER WORKS & TRAFFIC CONTROL SUBSUMMARIES

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:12:29 PM
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PROJECT ID 21-00267-010
SHEET P.5E TOTAL 29



LINE TABLE				
MARK	DIRECTION	LENGTH	START POINT	END POINT

CURVE TABLE						
MARK	RADIUS	DEGREE OF CURVATURE	LENGTH	CHORD BRG	START POINT	END POINT

0 100 200
GRAPHIC SCALE IN FEET

LEGEND

L XX	LINE SEGMENT NUMBER
C XX	CURVE SEGMENT NUMBER
(CP-X)	CONTROL POINT NUMBER

ALIGNMENT CONTROL POINTS

CP-1
5/8" IRON ROD
N 959134.73 E 2503839.74
ELEVATION = 858.72

CP-2
5/8" IRON ROD
N 959161.42 E 2503418.86
ELEVATION = 813.81

CP-3
5/8" IRON ROD
N 959054.43 E 2502741.02
ELEVATION = 757.82

CP-4
5/8" IRON ROD
N 959546.96 E 2502549.80
ELEVATION = 770.52

CP-5
5/8" IRON ROD
N 959496.32, E 2502319.70
ELEVATION = 765.28

CP-6
5/8" IRON ROD
N 958355.04, E 2502590.41
ELEVATION = 691.84

CP-7
5/8" IRON ROD
N 958287.55 E 2502930.72
ELEVATION = 685.84

HORIZONTAL SCALE IN FEET
0 25 50 100

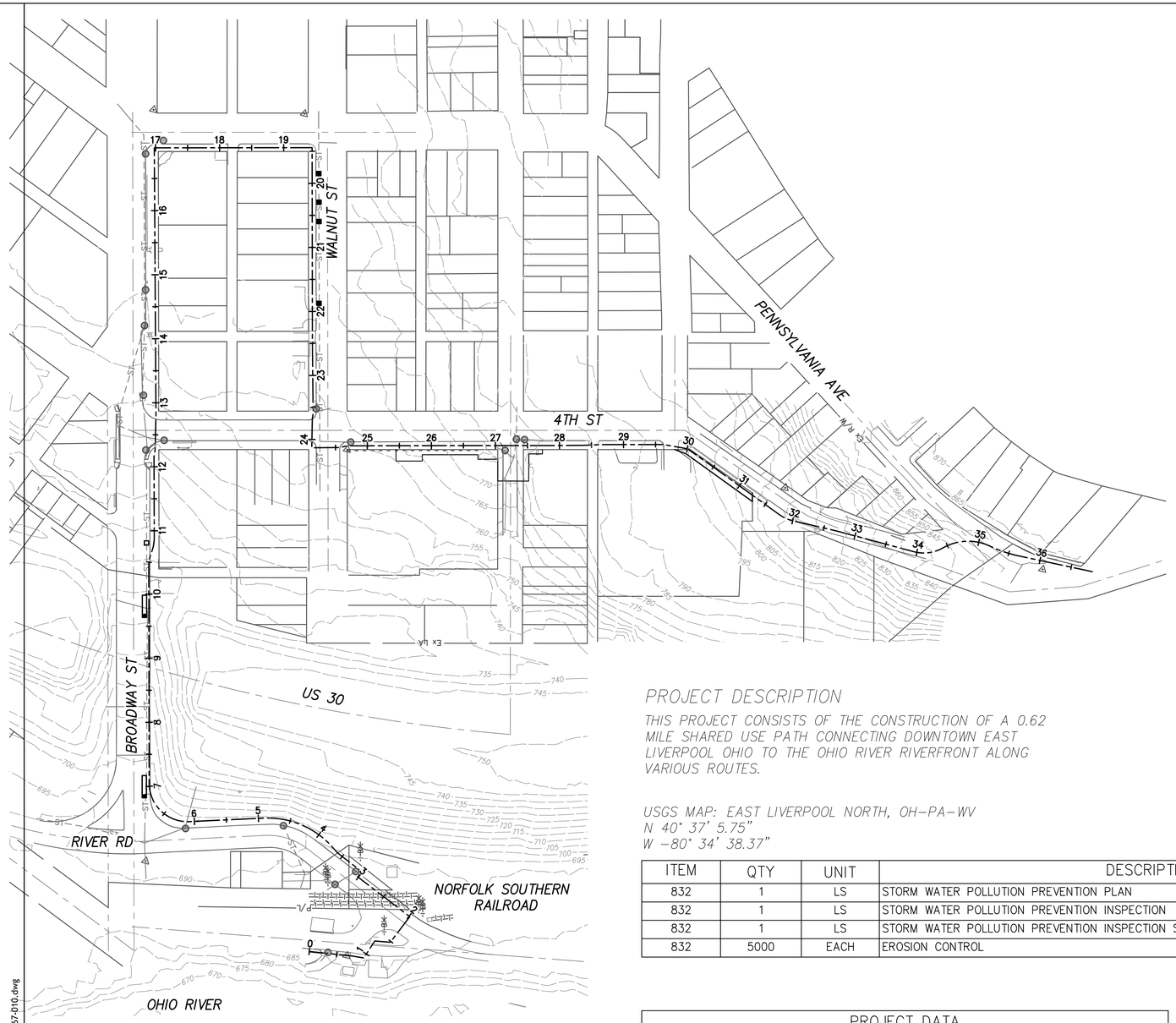
SCHEMATIC PLAN

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGN AGENCY
Environmental Design Group
The community beyond people.
800.835.1390
envdesigngroup.com

DESIGNER ESD
REVIEWER KTL 01-19-26
PROJECT ID 21-00267-010
SHEET P.6 TOTAL 29



PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 0.62 MILE SHARED USE PATH CONNECTING DOWNTOWN EAST LIVERPOOL OHIO TO THE OHIO RIVER RIVERFRONT ALONG VARIOUS ROUTES.

USGS MAP: EAST LIVERPOOL NORTH, OH–PA–WV
N 40° 37' 5.75"
W –80° 34' 38.37"

ITEM	QTY	UNIT	DESCRIPTION
832	1	LS	STORM WATER POLLUTION PREVENTION PLAN
832	1	LS	STORM WATER POLLUTION PREVENTION INSPECTION
832	1	LS	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE
832	5000	EACH	EROSION CONTROL

PROJECT DATA			
TOTAL AREA (RIGHT–OF–WAY)	5.30 ACRES	RUNOFF COEFFICIENT FOR PRE–CONSTRUCTION SITE	0.9
PROJECT EARTH DISTURBED AREA	0.97 ACRES	RUNOFF COEFFICIENT FOR POST–CONSTRUCTION SITE	0.9
IMPERVIOUS (PAVED) AREA FOR PRE–CONSTRUCTION SITE	0.73 ACRES	IMMEDIATE RECEIVING WATERS	OHIO RIVER
IMPERVIOUS (PAVED) AREA FOR POST–CONSTRUCTION SITE	0.82 ACRES	SUBSEQUENT RECEIVING WATERS	OHIO RIVER

LEGEND

- CATCH BASIN 2–2B
- CATCH BASIN 3A
- INLET 2–A–16
- EXISTING INLET

0 100 200
GRAPHIC SCALE IN FEET

HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN

COL-EL RIVERFRONT TRAIL, PHASE 1.1

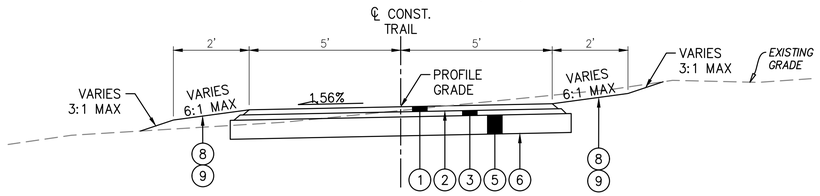
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Environmental Design Group
The community impact people.
800.835.1390
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DESIGNER ESD
REVIEWER KTL 01-19-26
PROJECT ID 21-00267-010
SHEET P.6A TOTAL 29

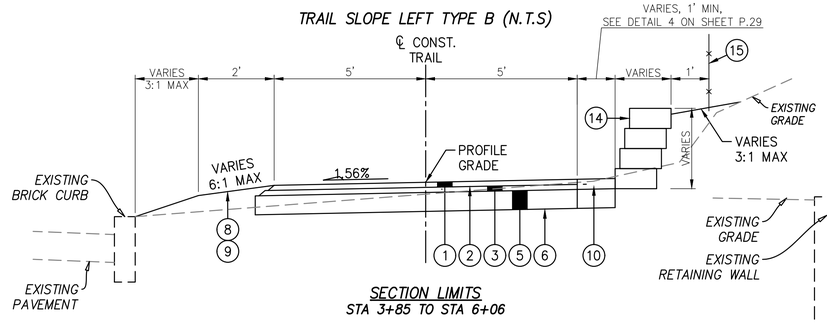
COL-EL-RIVERFRONT TRAIL, PHASE 1.1

TRAIL SLOPE LEFT TYPE A (N.T.S)



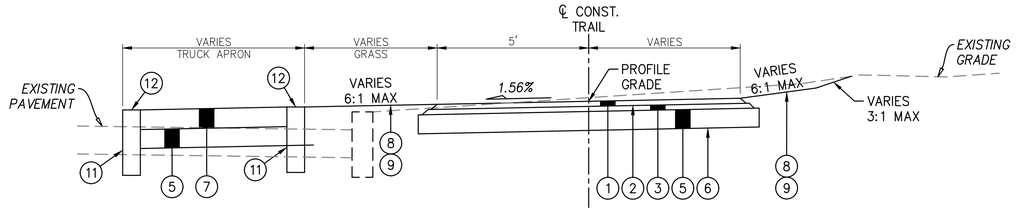
SECTION LIMITS
STA 3+22 TO STA 3+85

TRAIL SLOPE LEFT TYPE B (N.T.S)



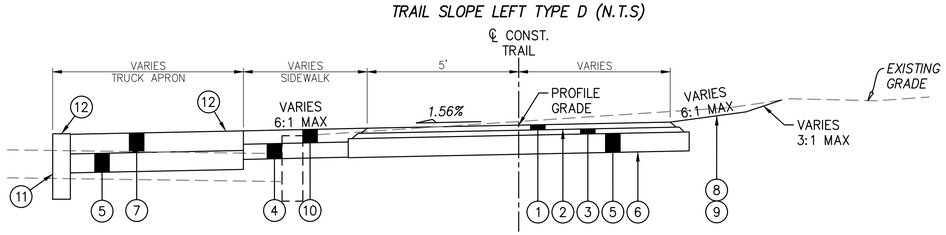
SECTION LIMITS
STA 3+85 TO STA 6+06

TRAIL SLOPE LEFT TYPE C (N.T.S)



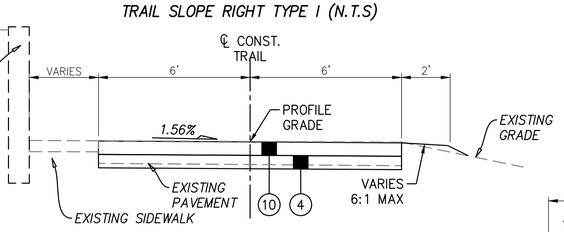
SECTION LIMITS
STA 06+06 TO STA 6+48

TRAIL SLOPE LEFT TYPE D (N.T.S)



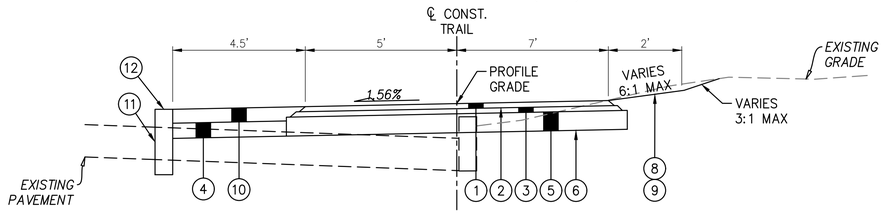
SECTION LIMITS
STA 06+48 TO STA 6+92

TRAIL SLOPE RIGHT TYPE I (N.T.S)



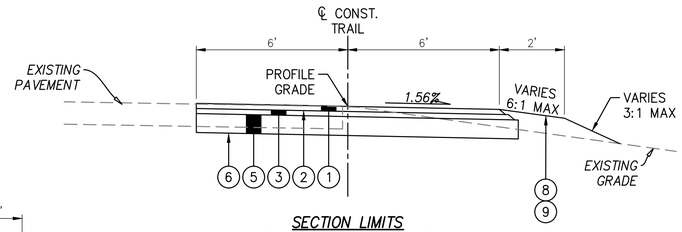
SECTION LIMITS
STA 36+10 TO STA 36+59

TRAIL SLOPE RIGHT TYPE E (N.T.S)



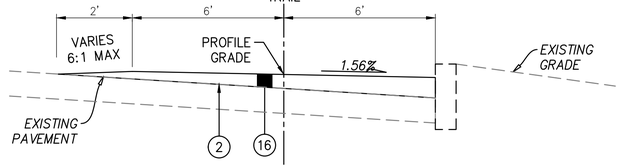
SECTION LIMITS
STA 06+92 TO STA 10+22

TRAIL SLOPE RIGHT TYPE F (N.T.S)



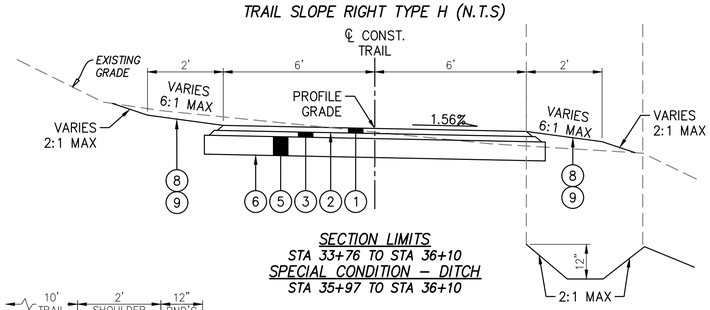
SECTION LIMITS
STA 29+95 TO STA 32+00

TRAIL SLOPE RIGHT TYPE G (N.T.S)

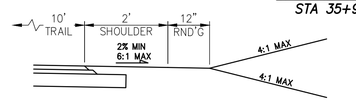


SECTION LIMITS
STA 32+00 TO STA 33+76

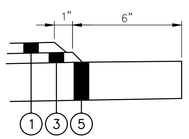
TRAIL SLOPE RIGHT TYPE H (N.T.S)



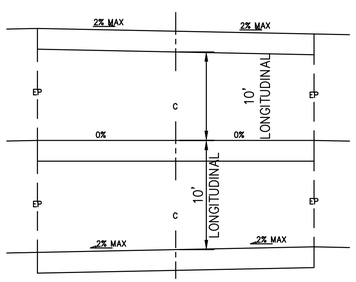
SECTION LIMITS
STA 33+76 TO STA 36+10
SPECIAL CONDITION – DITCH
STA 35+97 TO STA 36+10



TRAIL SHOULDER TRANSITION TO EXISTING GRADE
NOT TO SCALE



ASPHALT TRAIL PAVEMENT STEP DETAIL



CROSS SLOPE TRANSITION DETAIL
PROVIDE MINIMUM 20' TRANSITION WHEN CHANGING DIRECTION OF PAVEMENT CROSS SLOPE

LEGEND

1. ITEM 441 – 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449)
2. ITEM 407 – NON–TRACKING TACK COAT (APPLIED AT 0.055 GAL/SY)
3. ITEM 441 – 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
4. ITEM 304 – 4" AGGREGATE BASE
5. ITEM 304 – 6" AGGREGATE BASE
6. ITEM 204 – SUBGRADE COMPACTION
7. ITEM 451 – 8" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
8. ITEM 659 – SEEDING AND MULCHING (UNLESS OTHERWISE SHOWN ON PLAN)
9. ITEM 653 – 3" TOPSOIL, FURNISHED AND PLACED
10. ITEM 608 – 4" CONCRETE WALK, AS PER PLAN
11. ITEM 255 – FULL DEPTH PAVEMENT SAWING
12. ITEM 609 – CURB, TYPE 6
13. ITEM 605 – 4" BASE PIPE UNDERDRAINS
14. ITEM 690 – RETAINING WALL OR SHEET PILE WALL (SEE ITEMS 870 & 504 ON SHEET P.3)
15. ITEM 607 – FENCE, TYPE CLT
16. ITEM 441 – 2–6" VARIABLE – ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449)

TYPICAL SECTIONS

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER ESD
REVIEWER KTL ########
PROJECT ID 21-00267-010
SHEET P.7 | TOTAL 29

PLAN AND PROFILE

NOTES

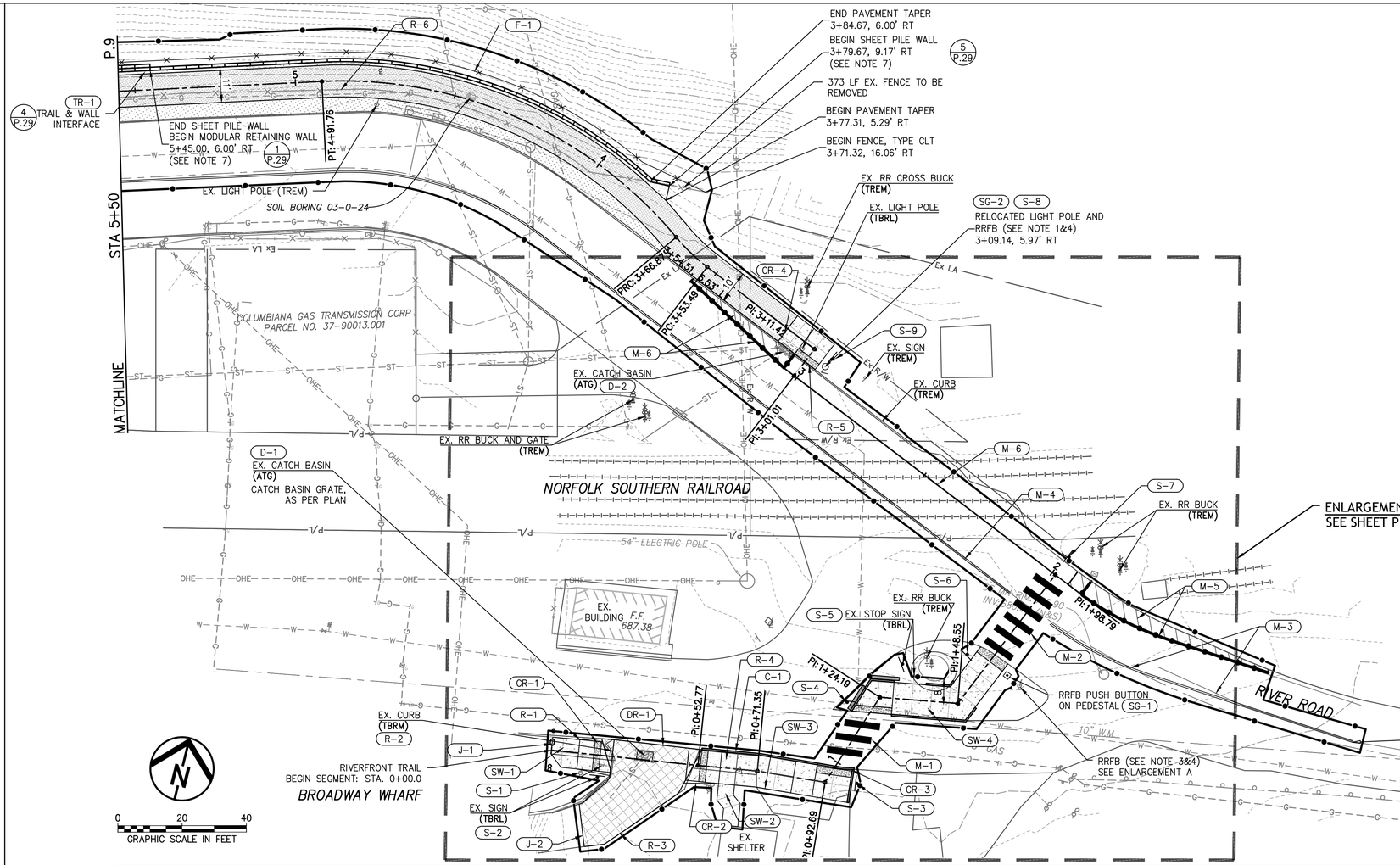
1. THE CONTRACTOR SHALL MOUNT THE RRFB AND ASSOCIATED SIGNAGE ON THE RELOCATED LIGHT POLE AS SHOWN IN THE PLANS.
2. THIS ITEM OF WORK SHALL INCLUDE THE INSTALLATION OF A SIGNAL POLE, FOUNDATION, GROUND ROD, MAST ARM, BRACKET ARM, LED UNIT FOR LIGHTING AND ELECTRICAL WORK. AN RRFB AND ASSOCIATED SIGNAGE WILL BE MOUNTED ON THE MAST ARM. THE RRFB AND ASSOCIATED SIGNAGE IS NOT INCLUDED IN THIS ITEM OF WORK. DETAILED CALCULATIONS AND ADDITIONAL INFORMATION TO BE INCLUDED IN STAGE 3.
3. THE CONTRACTOR SHALL MOUNT THE RRFB AND ASSOCIATED SIGNAGE ON THE EXISTING LIGHT POLE AS SHOWN IN THE PLANS. PUSH BUTTON SHALL BE MOUNTED ON A PEDESTAL
4. SEE SHEET P.22 FOR SIGNAGE DETAILS.
5. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.
6. *SOIL BORING 01-0-24 IS OUTSIDE THE VIEWPORT. STA. 5+27.22, 42.74' RT N: 958495.49, E: 2502706.88*
7. *INSTALL PZC 18 STEEL SHEET PILING TO A DRIVEN DEPTH OF 22' PRIOR TO PREFABRICATED MODULAR RETAINING WALL INSTALLATION, LEAVE 12" OF SHEET PILING EXPOSED ABOVE EXISTING GRADE AND CUT TO REQUIRED ELEVATION AFTER PREFABRICATED MODULAR RETAINING WALL INSTALLATION. SHEET PILING STEEL YIELDING STRENGTH: FY=50KSI; MODULUS OF ELASTICITY (E)=29,000KSI. MINIMUM SECTION MODULUS: 33.5 INCHES³*

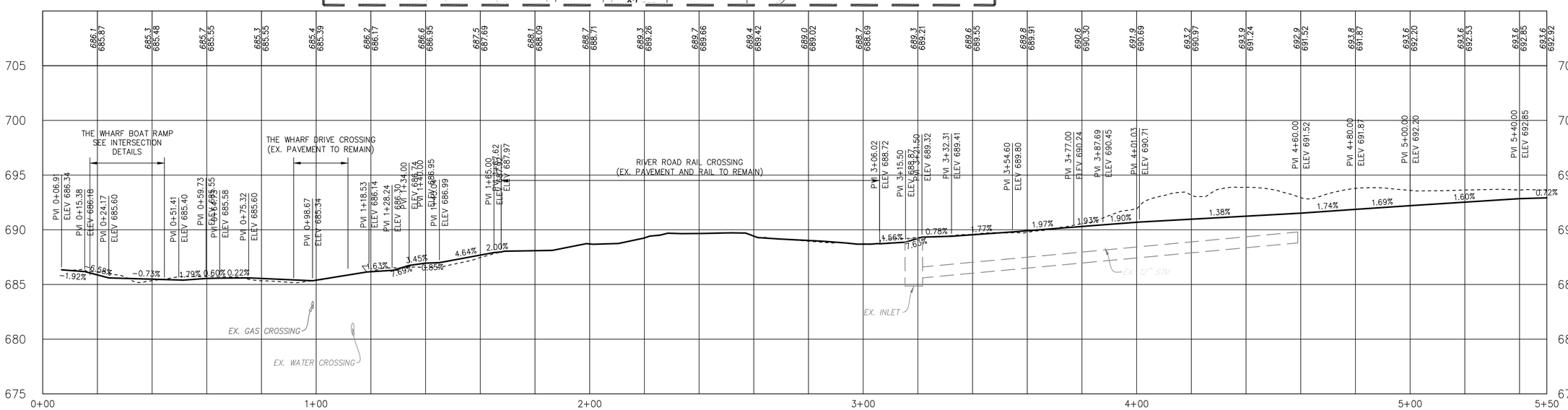
PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40





COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.8
TOTAL	29

NOTES

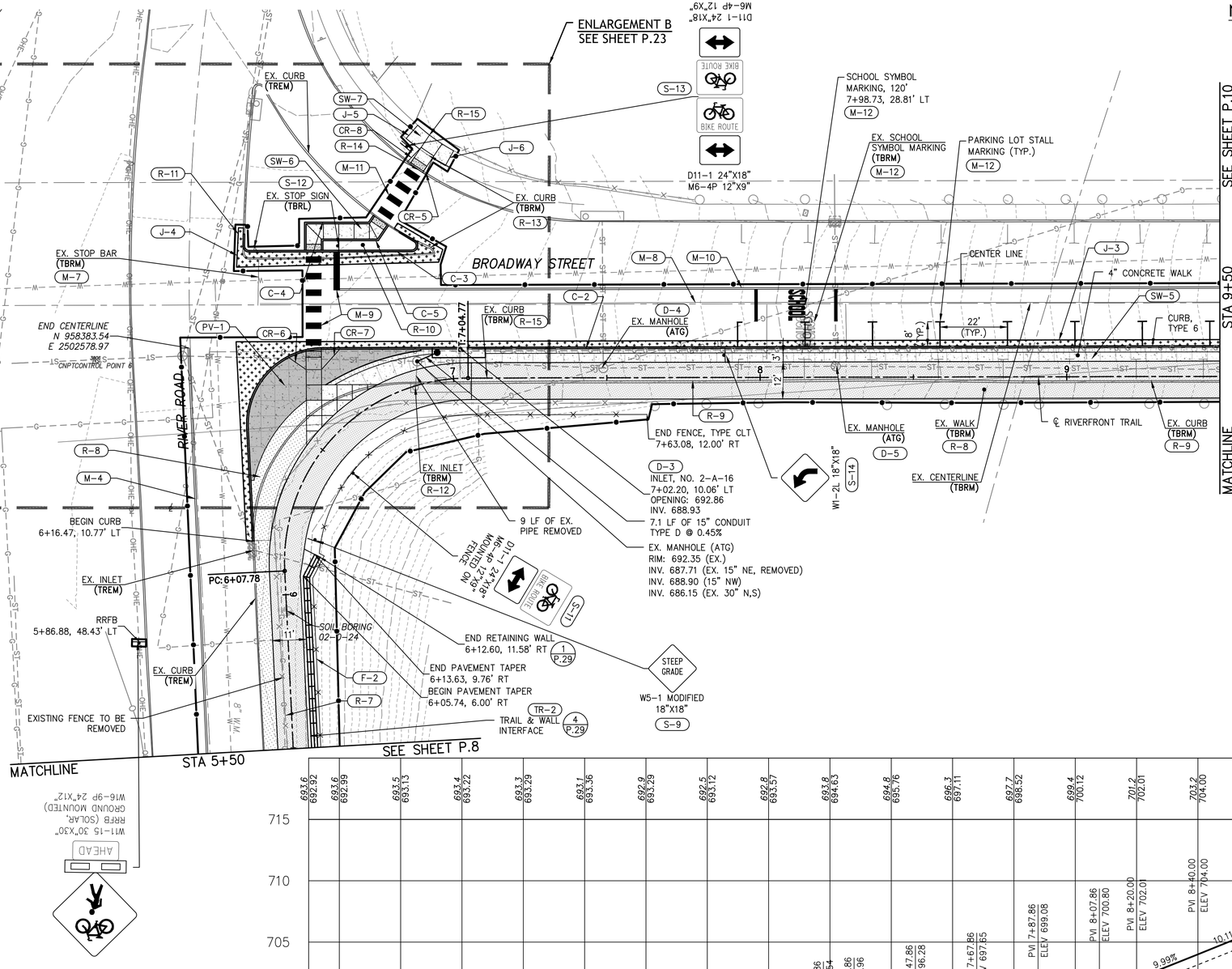
1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.

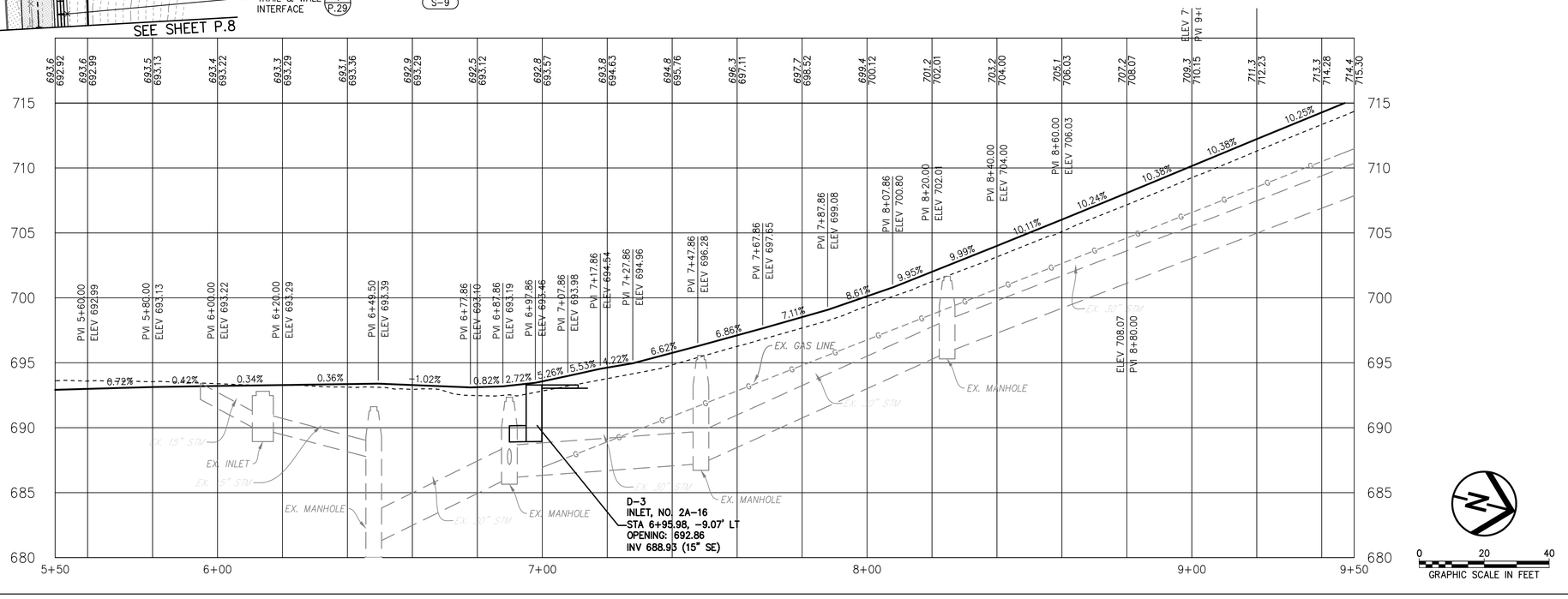
PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40





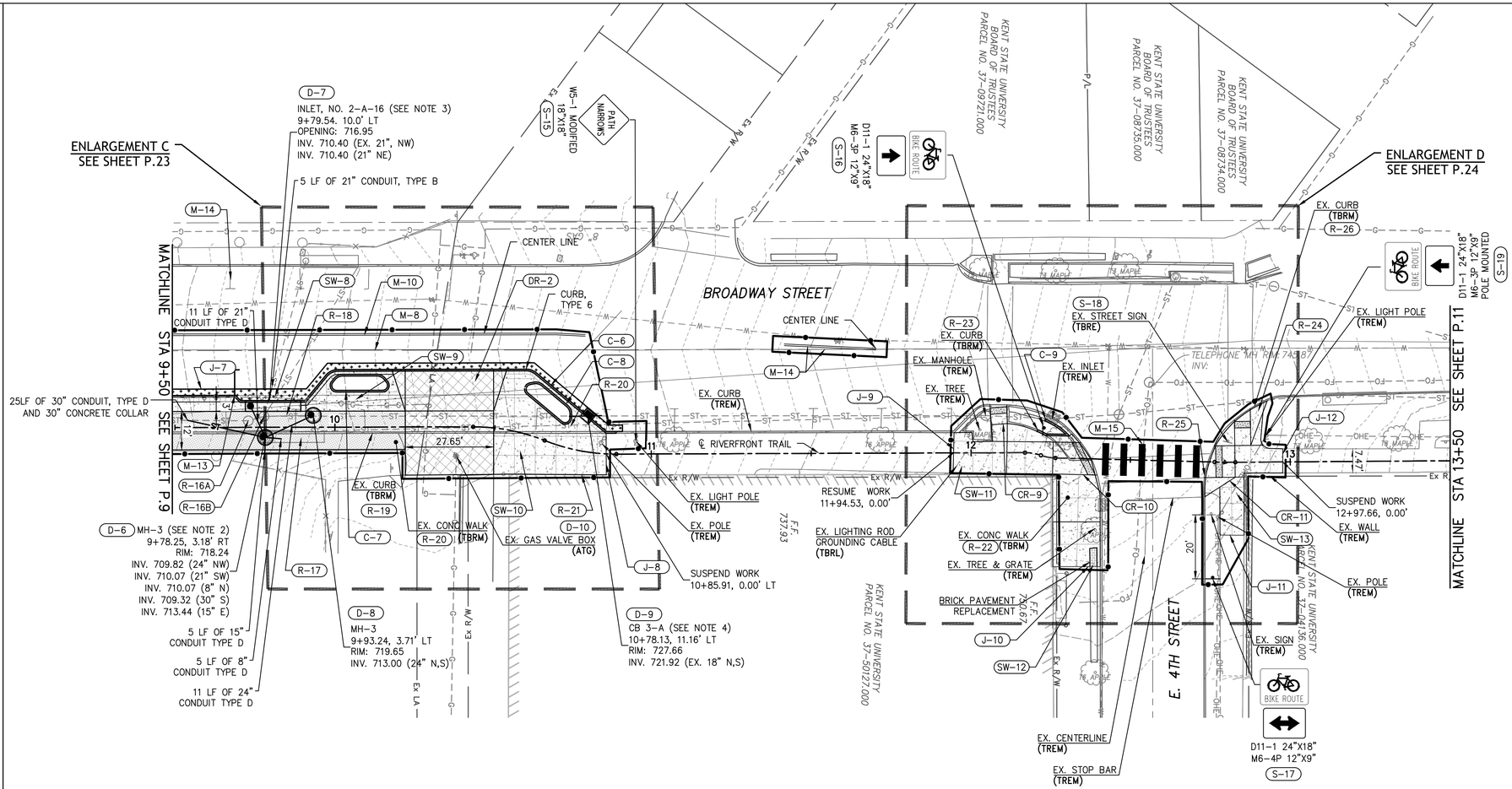
PLAN AND PROFILE

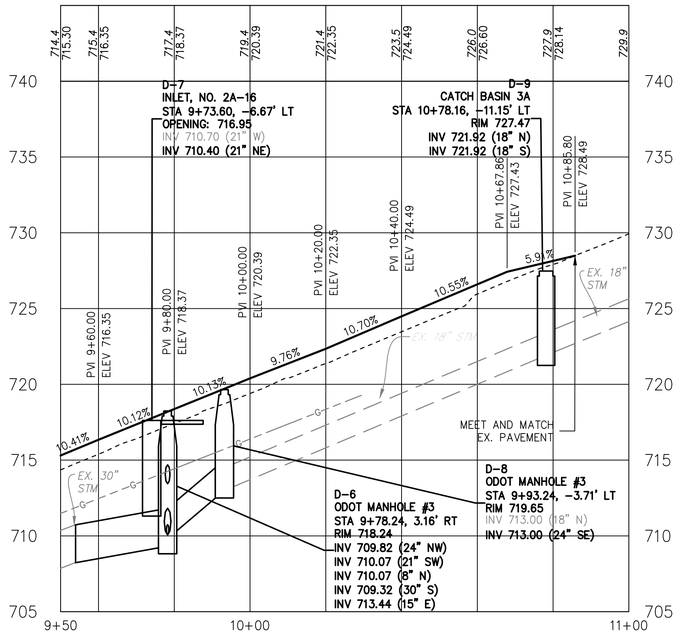
COL-EL RIVERFRONT TRAIL, PHASE 1.1

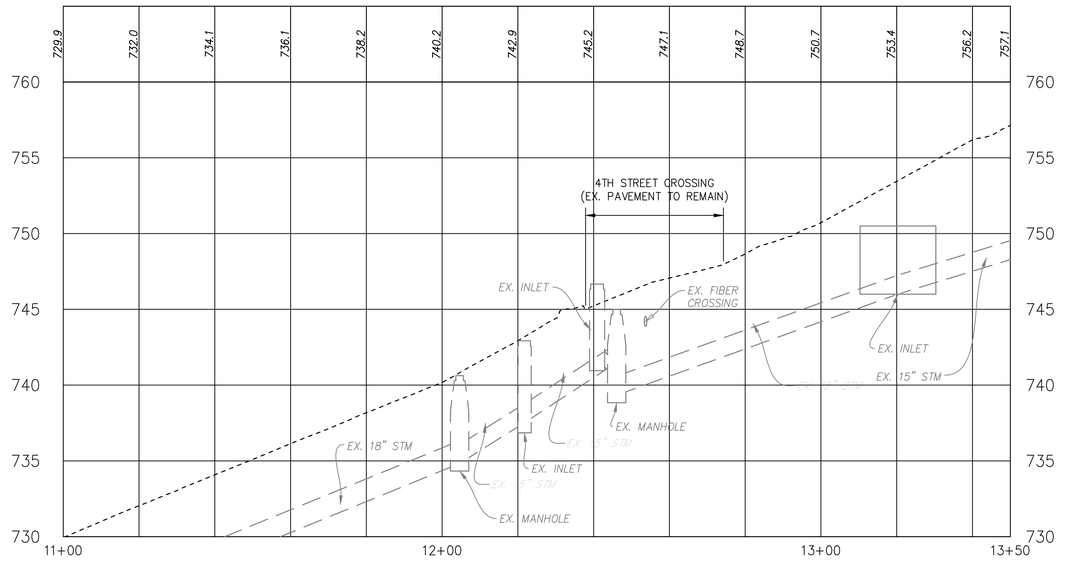
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DESIGN AGENCY
Environmental Design Group
The community impact people.
800.835.1390
envdesigngroup.com

DESIGNER: ESD
REVIEWER: KTL 01-19-26
PROJECT ID: 21-00267-010
SHEET: P.9 TOTAL: 29







PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

NOTES

1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.
2. CONTRACTOR SHALL REMOVE EXISTING INLET AND INSTALL THE PROPOSED MANHOLE NO. 3. CONNECT ALL EXISTING PIPES FROM THE INLET TO THE MANHOLE NO. 3. USE THREE DM-1.1 MASONRY COLLARS, 5 LF OF 8" CONDUIT, TYPE D AND 5 LF OF 15" CONDUIT, TYPE D TO MAKE THESE CONNECTIONS.
3. CONTRACTOR SHALL REMOVE EXISTING 21" PIPE AS NECESSARY TO INSTALL PROPOSED INLET NO. 2-A-16. RECONNECT EXISTING 21" PIPE TO PROPOSED INLET NO. 2-A-16. USE ONE DM-1.1 MASONRY COLLARS AND 5 LF OF 21" CONDUIT, TYPE B TO MAKE THIS CONNECTION.
4. CONTRACTOR SHALL INSTALL PROPOSED CB 3-A ON EXISTING 18" STORM SEWER. USE TWO DM-1.1 MASONRY COLLARS AND 10 LF OF 18" CONDUIT, TYPE B TO MAKE THIS CONNECTION.

HORIZONTAL SCALE IN FEET
0 10 20 40

GRAPHIC SCALE IN FEET
0 20 40

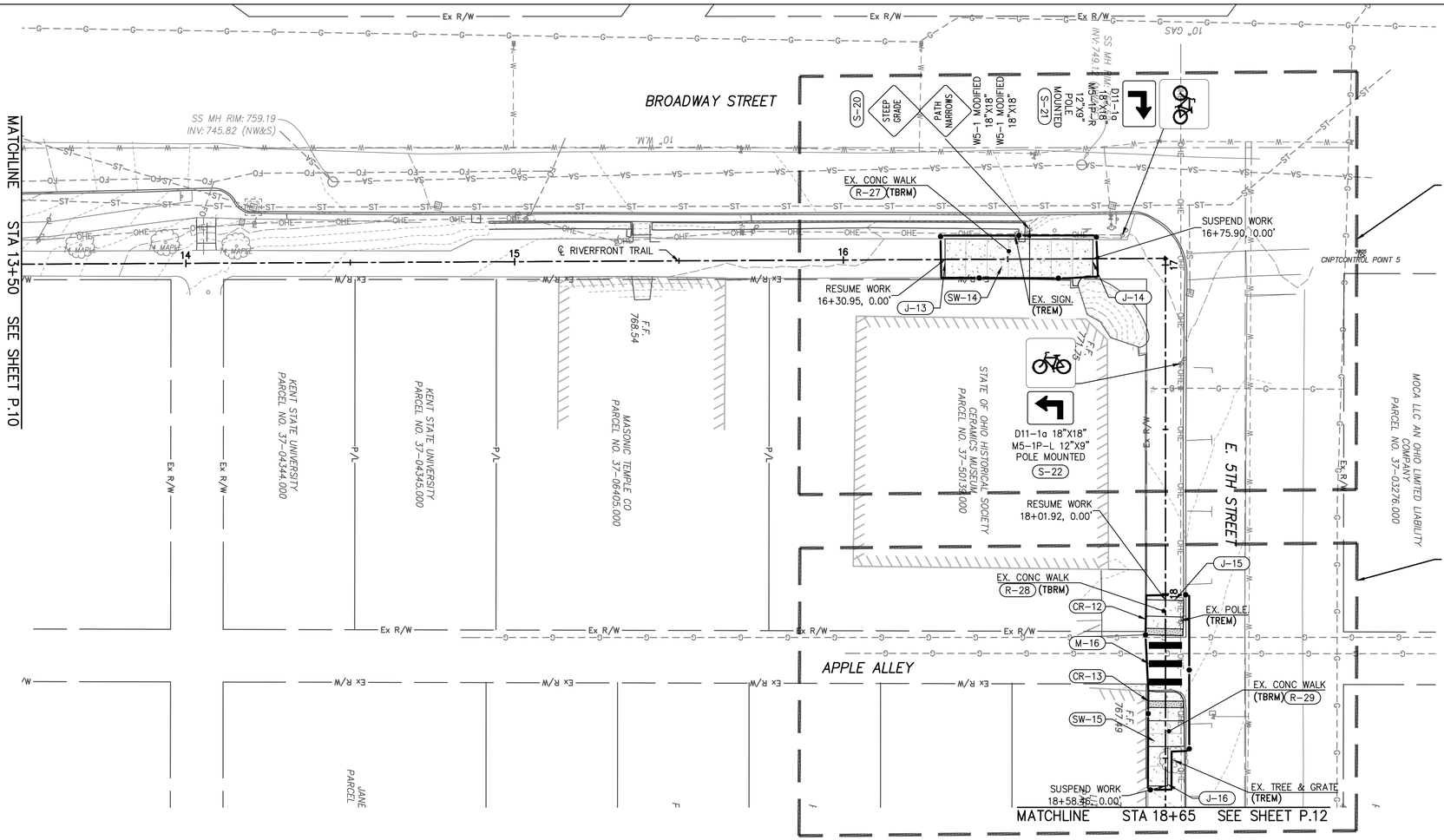
PLAN AND PROFILE

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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DESIGN AGENCY
Environmental Design Group
The community impact people.
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.10
TOTAL	29



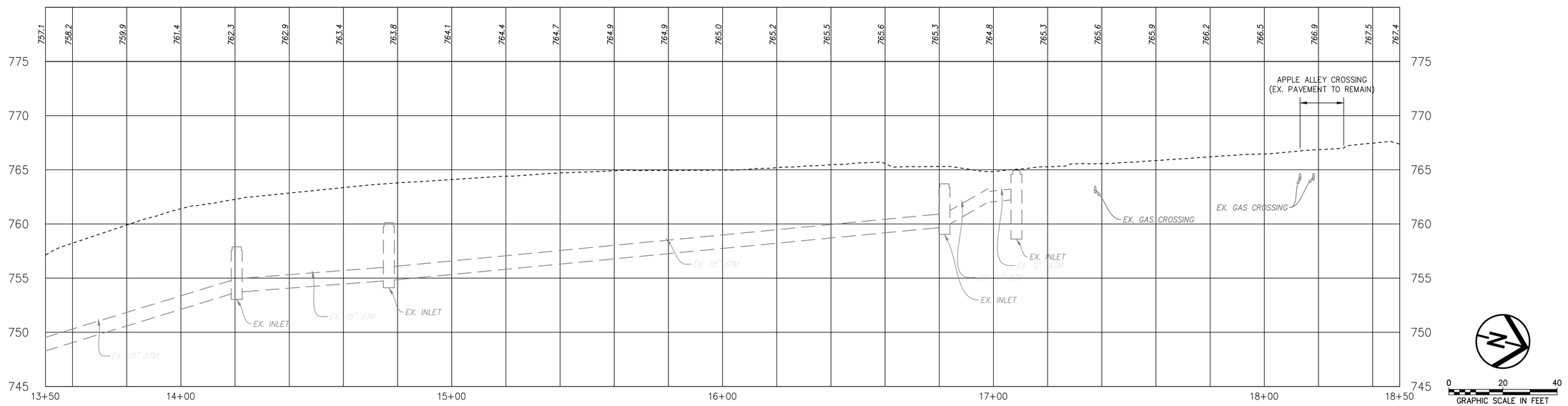
PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

NOTES

1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.



HORIZONTAL SCALE IN FEET
0 10 20 40

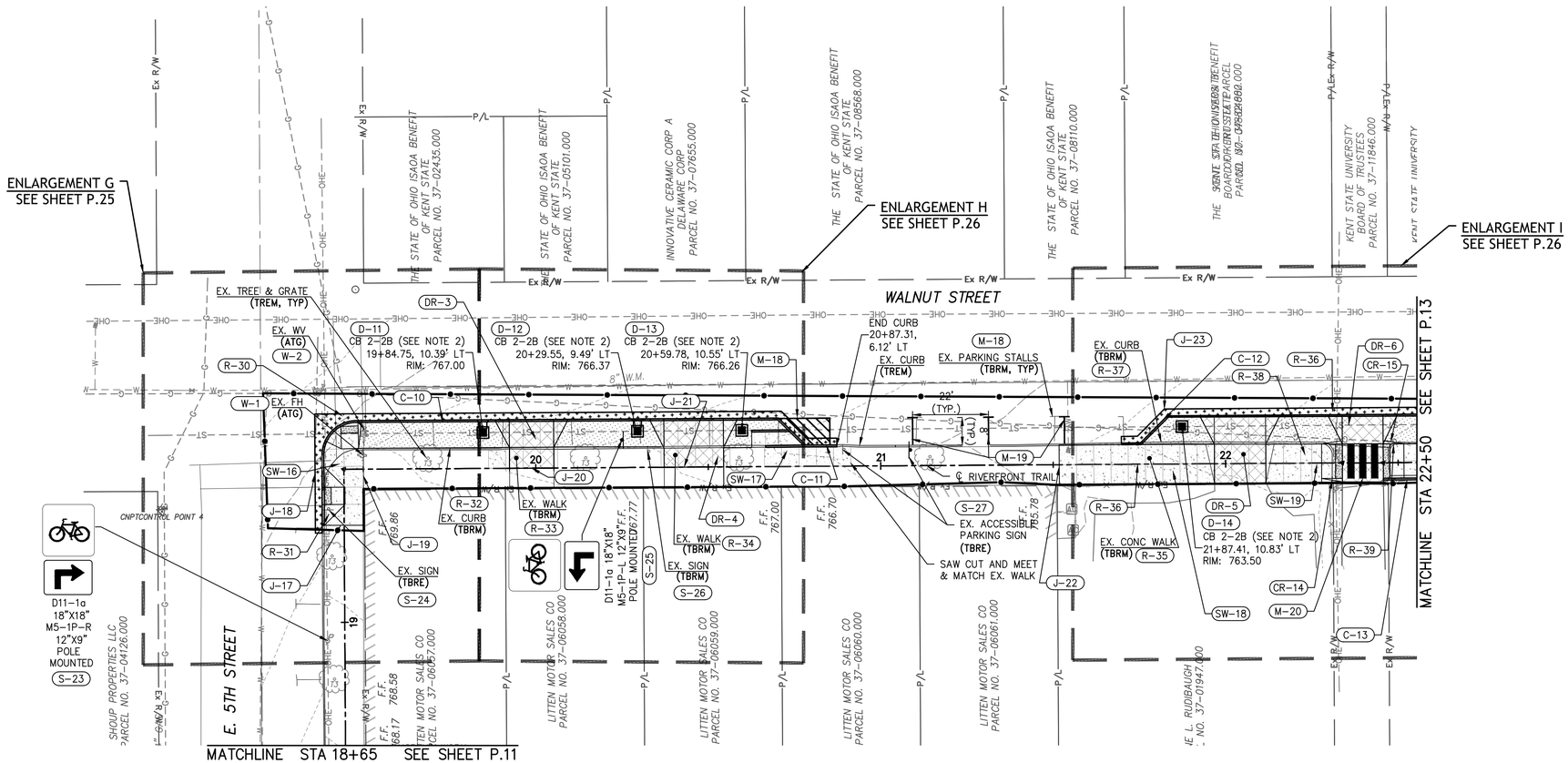
PLAN AND PROFILE

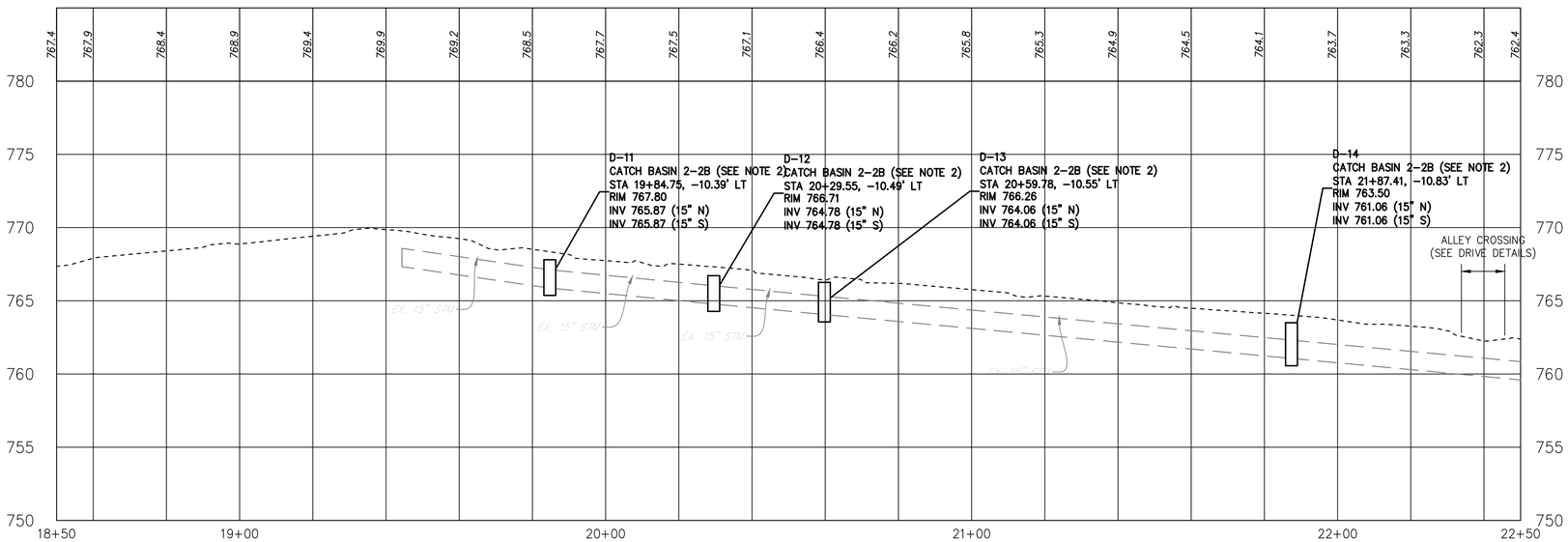
COL-EL RIVERFRONT TRAIL, PHASE 1.1

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Environmental Design Group
The community impact people.
800.835.1390
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.11
TOTAL	29





PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY (EX RW)

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

NOTES

1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.
2. CONTRACTOR SHALL INSTALL PROPOSED CB 2-2B ON EXISTING STORM SEWER. EXISTING STORM SEWER SIZE AND DEPTH IS UNKNOWN. CONTRACTOR SHALL EXCAVATE TO DETERMINE THE EXISTING PIPE SIZE AND DEPTH AND UTILIZE TWO DM-1.1 MASONRY COLLARS AND 10 LF OF CONDUIT, TYPE C THAT MATCHES THE SIZE OF THE EXISTING PIPE TO MAKE EACH CONNECTION.THIS ITEM SHALL BE PAID UNDER 18" CONDUIT, TYPE C 706.02.

HORIZONTAL SCALE IN FEET
0 10 20 40

GRAPHIC SCALE IN FEET
0 20 40

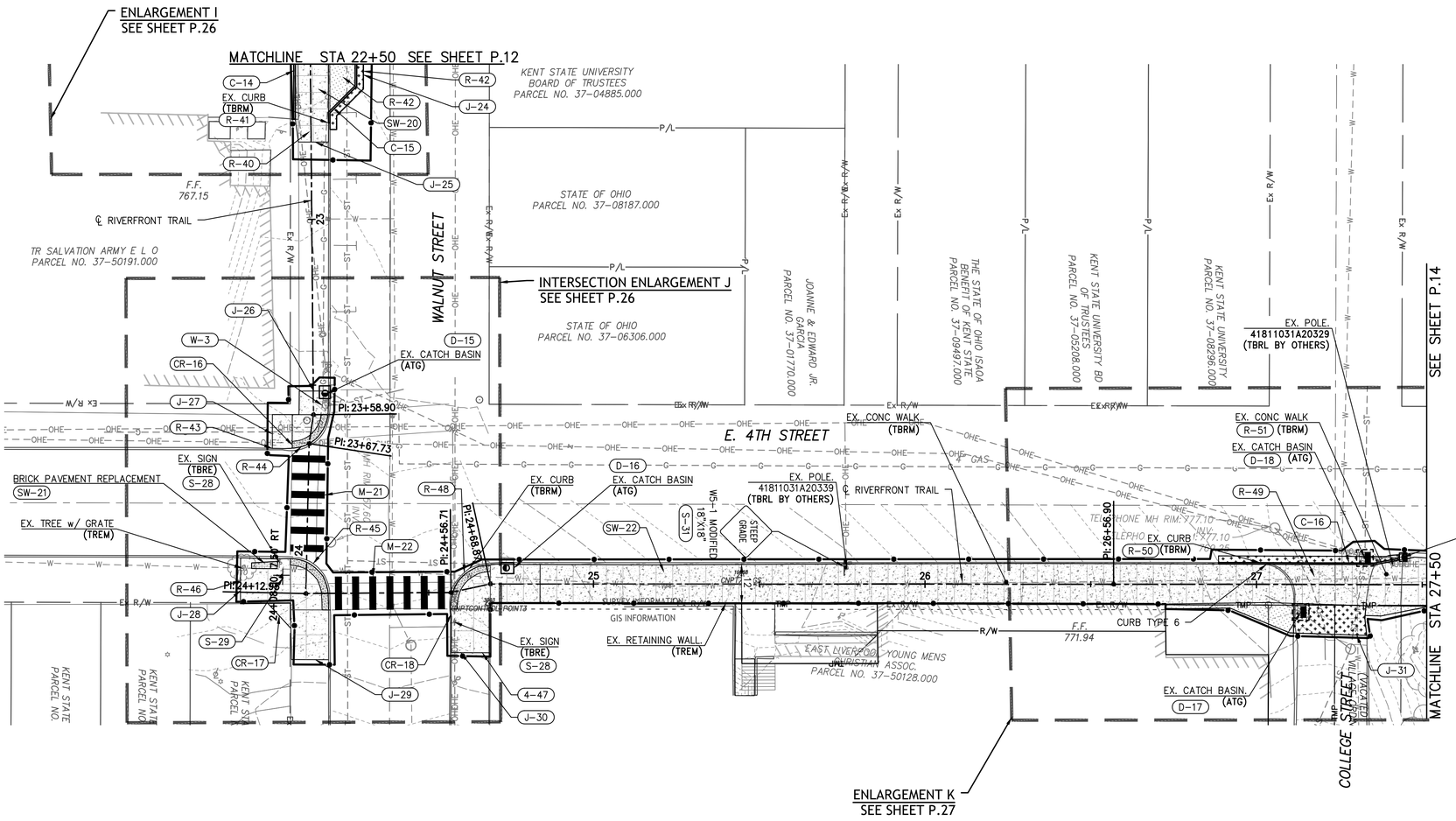
PLAN AND PROFILE

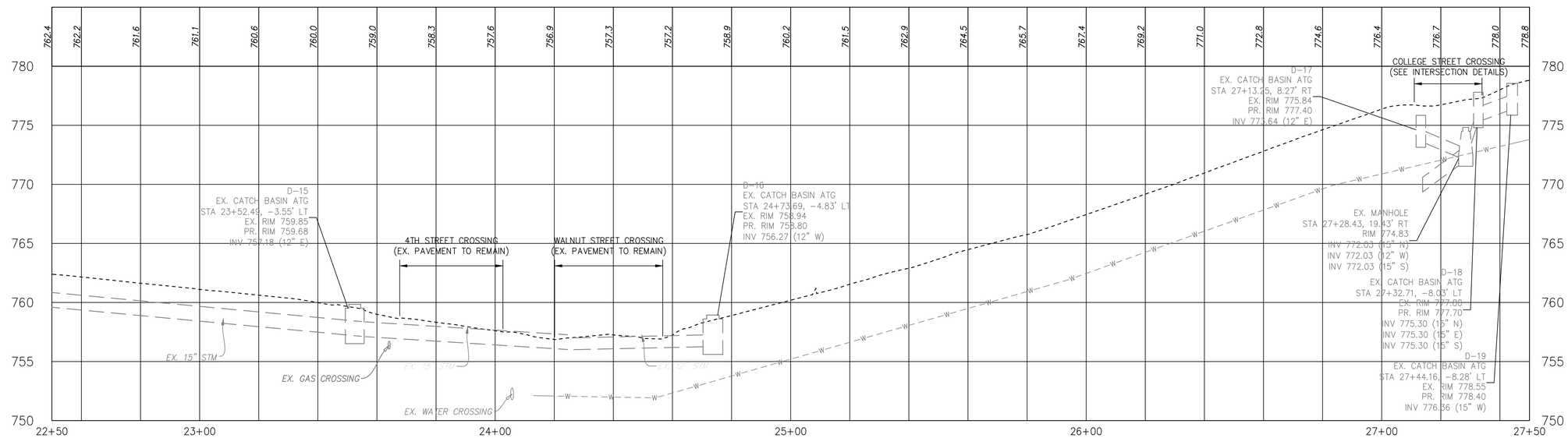
COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:16:00 PM
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DESIGN AGENCY
Environmental Design Group
The community impact people.
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.12
TOTAL	29





PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

NOTES

1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.

HORIZONTAL SCALE IN FEET
0 10 20 40

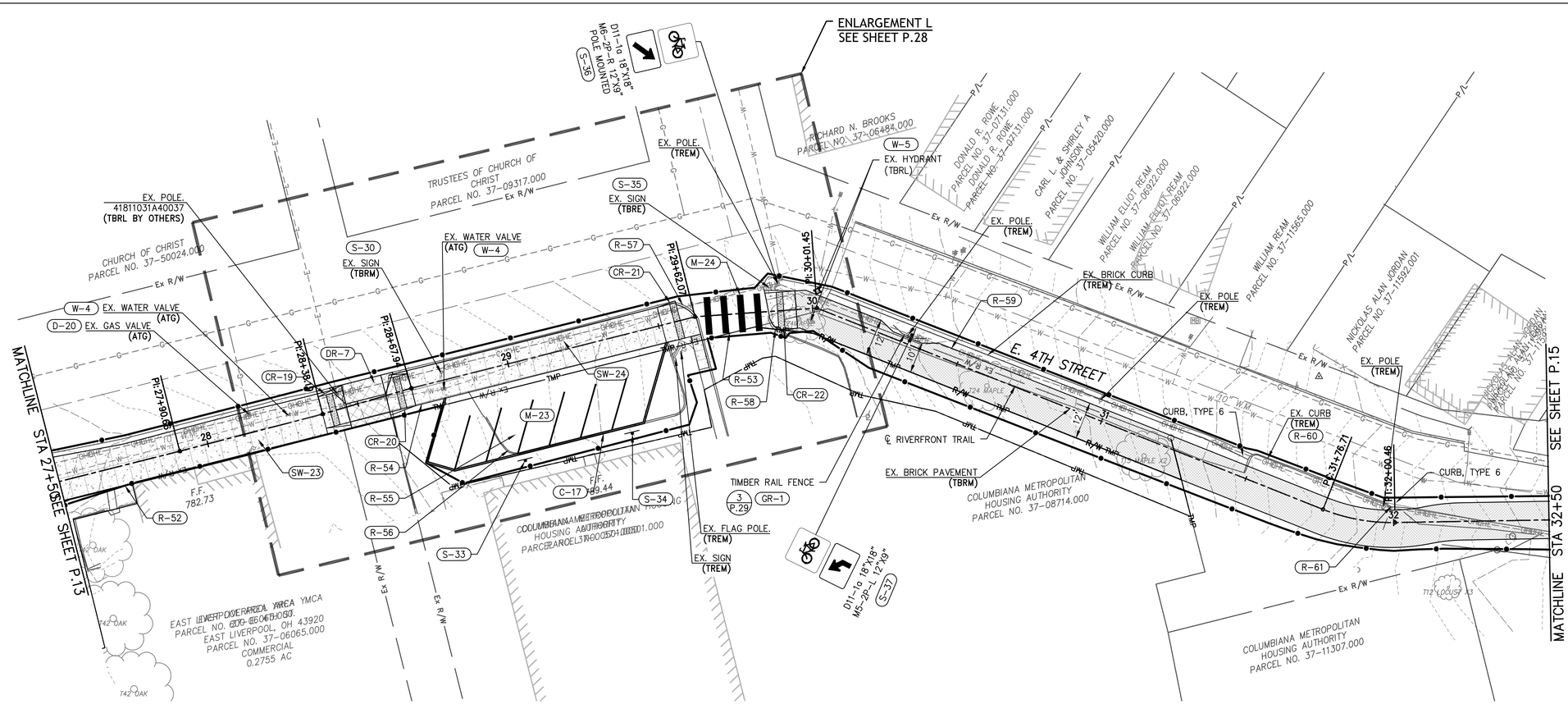
PLAN AND PROFILE

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:16:22 PM
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DESIGNER: ESD
REVIEWER: KTL 01-19-26
PROJECT ID: 21-00267-010
SHEET: P.13 TOTAL: 29



PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY

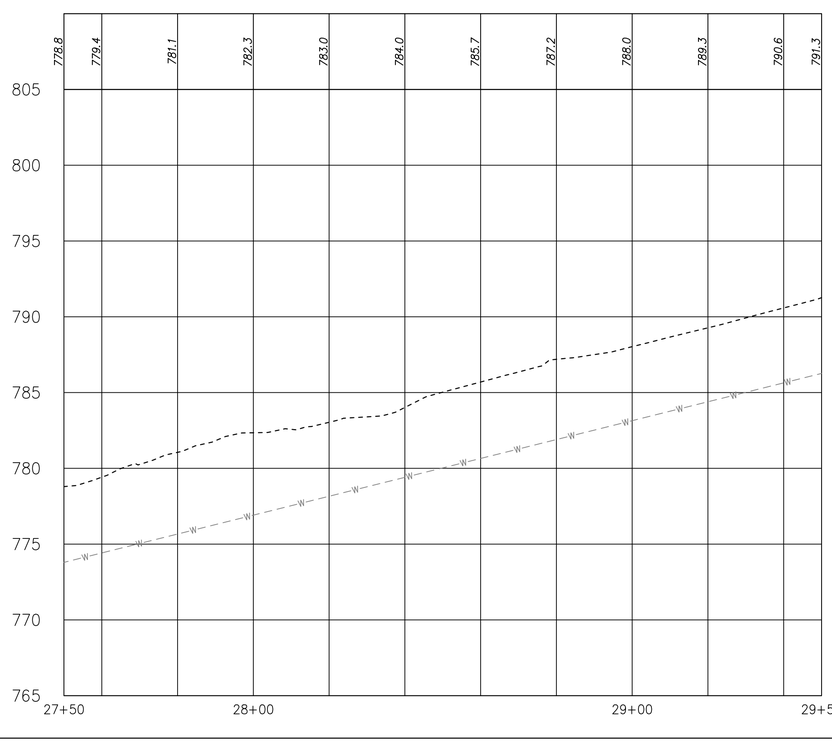
ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

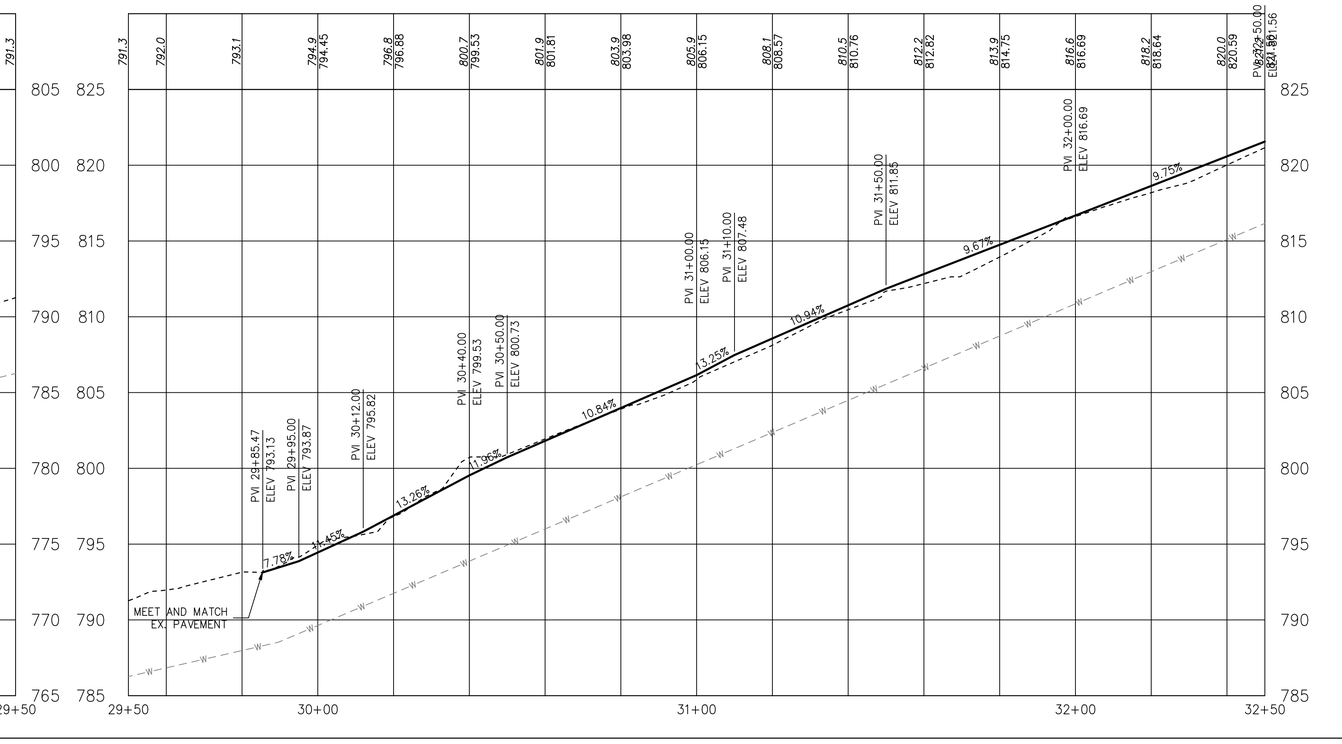
NOTES

1. ALL CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED TO THE NEXT EXISTING PAVEMENT JOINT BEYOND WHERE REMOVAL IS DETAILED ON THE PLANS.

HORIZONTAL SCALE IN FEET
0 10 20 40

0 20 40
GRAPHIC SCALE IN FEET





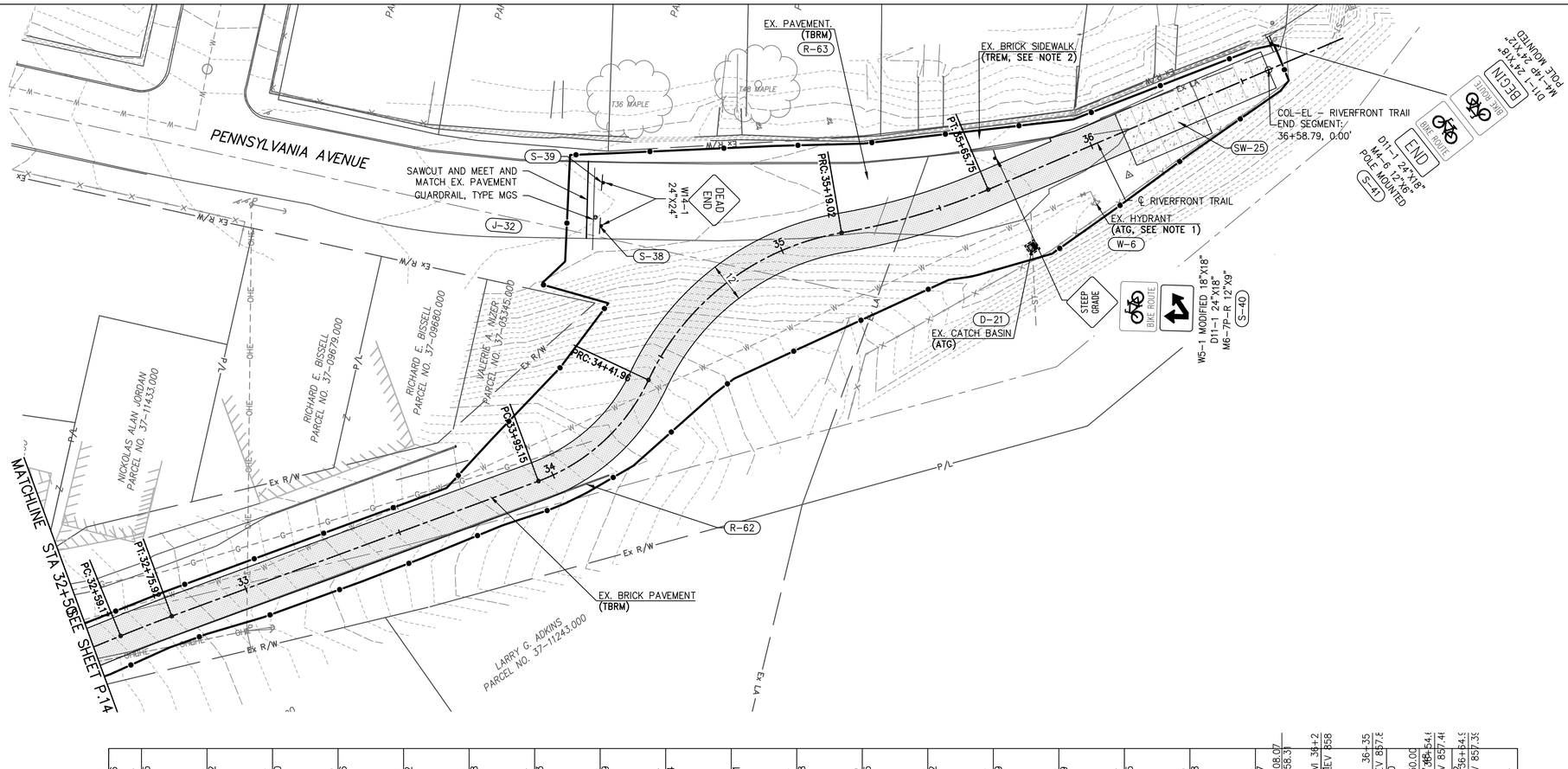
PLAN AND PROFILE

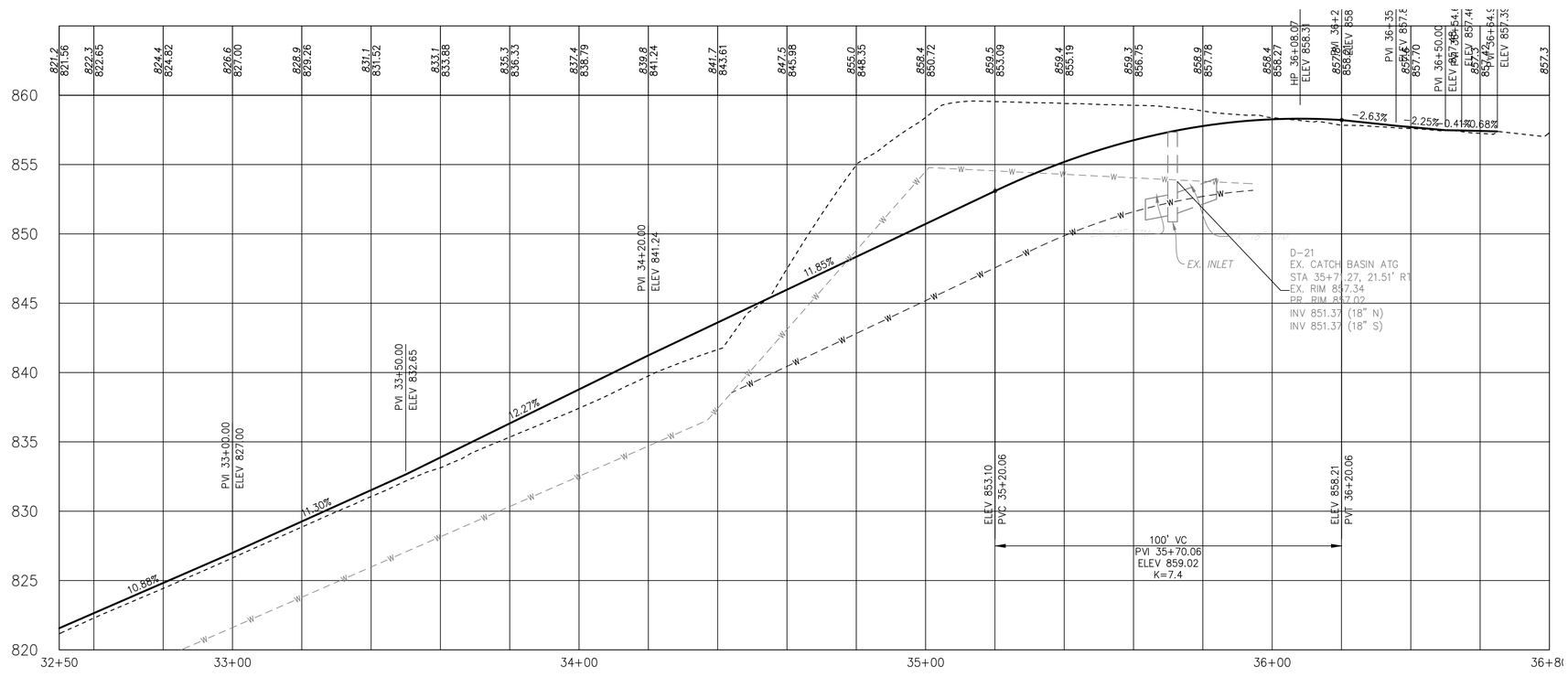
DESIGN AGENCY
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.14
TOTAL	29

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:16:40 PM
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PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY (EX RW)

ATG	ADJUST TO GRADE
TBRM	TO BE REMOVED
TREM	TO REMAIN
TBRL	TO BE RELOCATED
TBRE	TO BE REERECTED

NOTES

1. CONTRACTOR SHALL ADJUST EXISTING HYDRANT TO GRADE AND REMOVE AND REPLACE THE EXISTING WATERLINE TO BE A MINIMUM DEPTH OF 4' BELOW PROPOSED GRADE. THIS WORK SHALL BE PAID FOR UNDER ITEM 638 FIRE HYDRANT ADJUSTED TO GRADE, AS PER PLAN.

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

GRAPHIC SCALE IN FEET: 0, 20, 40

PLAN AND PROFILE

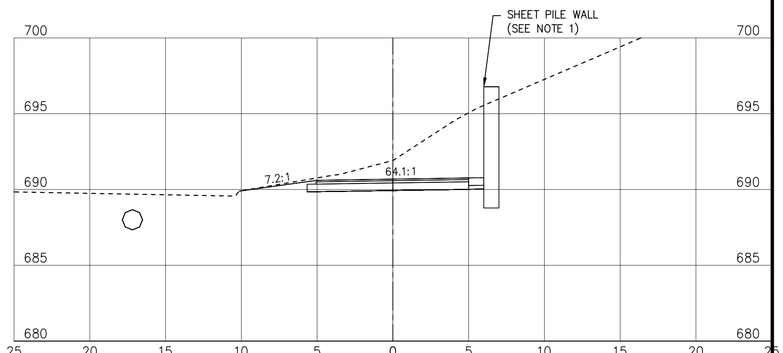
COL-EL RIVERFRONT TRAIL, PHASE 1.1

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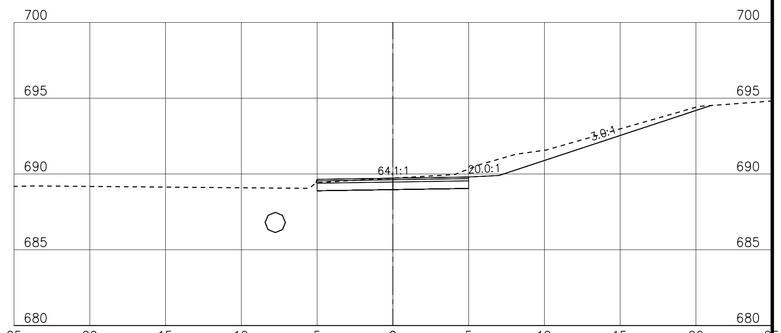
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.15
TOTAL	29

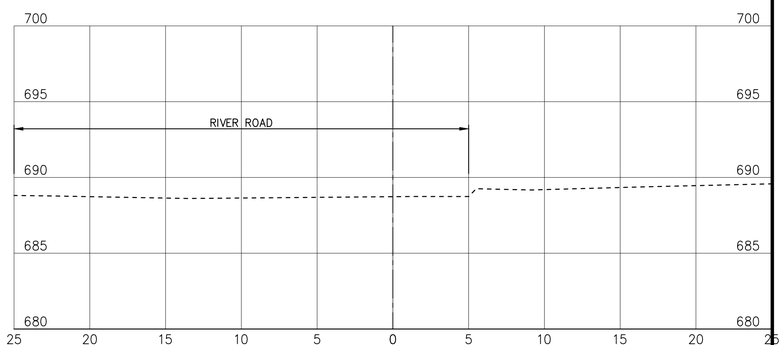
NOTES
1. WALL LOCATIONS AND DIMENSIONS ARE GRAPHICAL ONLY



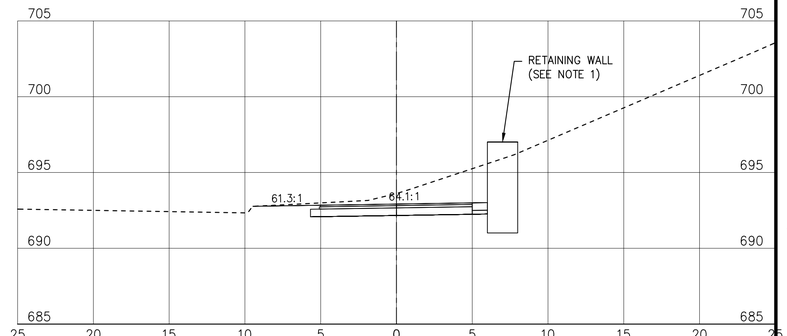
690.69 PR
STA 4+00
691.9 EX



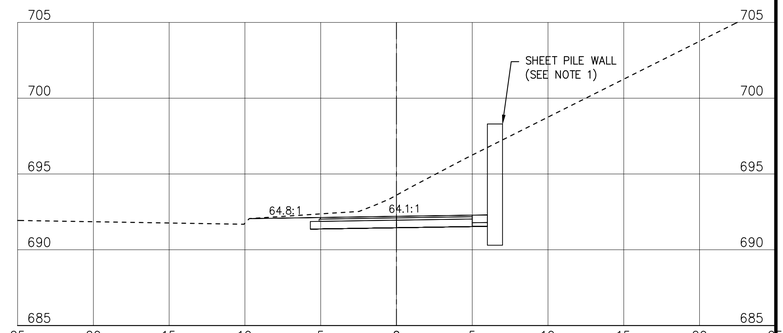
689.72 PR
STA 3+50
689.7 EX



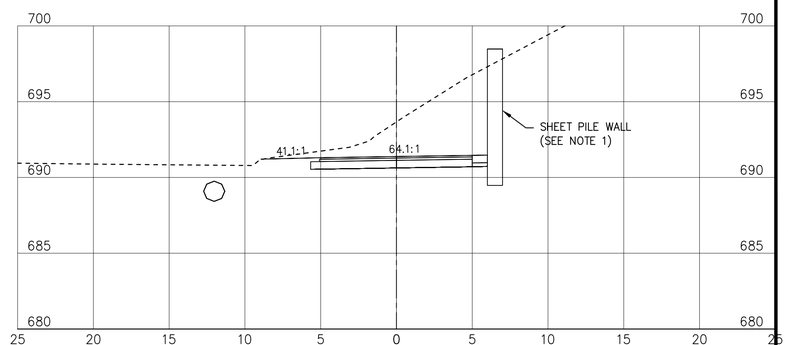
PR
STA 3+00
688.7 EX



692.92 PR
STA 5+50
693.6 EX



692.20 PR
STA 5+00
693.6 EX



691.38 PR
STA 4+50
693.7 EX

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
10	75	38	0			9	48
				51	0		
17	0	17	0			8	45
				15	0		
0	0	0	0			8	50
				0	0		
	75			72	0	143	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
30	0		
		62	0
37	0		
		79	0
48	0		
		81	0
		260	0

HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS
STA 3+00 TO STA 5+50

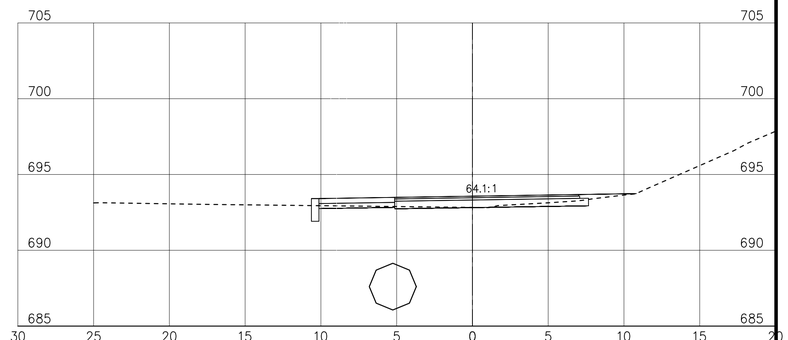
COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 10/23/2026 TIME: 2:36:34 PM
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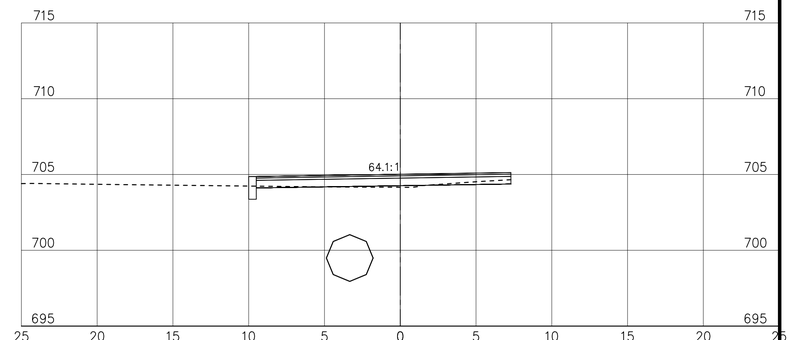
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DESIGNER	
ESD	
REVIEWER	
KTL	01-19-26
PROJECT ID	
21-00267-010	
SHEET	TOTAL
P.16	29

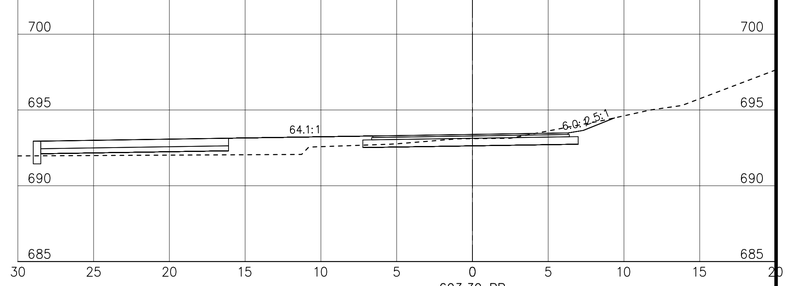
NOTES
1. WALL LOCATIONS AND DIMENSIONS ARE GRAPHICAL ONLY



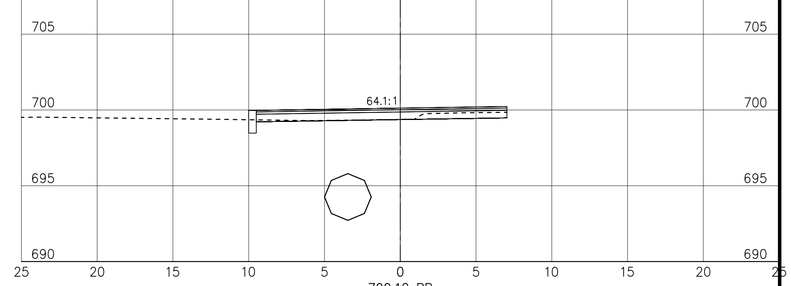
693.57 PR
STA 7+00
692.8 EX



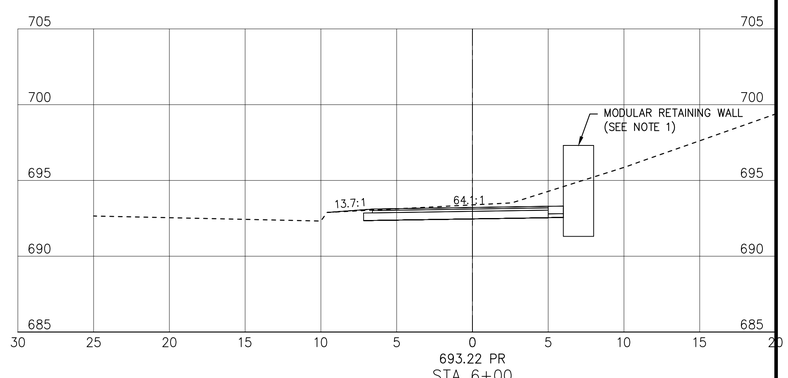
705.01 PR
STA 8+50
704.2 EX



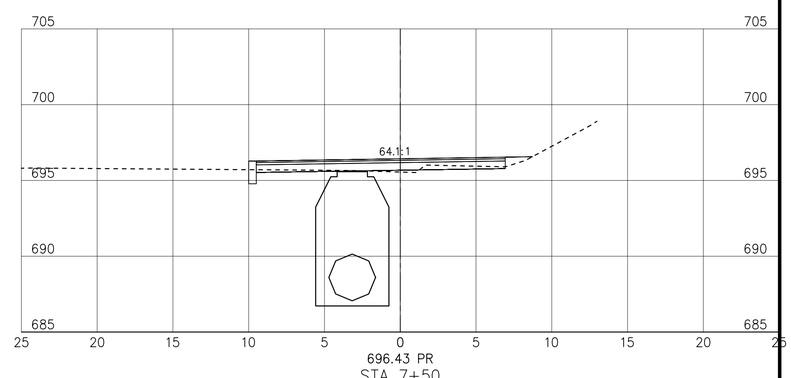
693.39 PR
STA 6+50
693.1 EX



700.12 PR
STA 8+00
699.4 EX



693.22 PR
STA 6+00
693.4 EX



696.43 PR
STA 7+50
695.6 EX

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
5	50	3	1			0	0
13	78	8	11	26	12	0	6
15	67	21	0	47	0	2	20
	195			83	25		26

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
2	0		
3	0	5	1
2	1	5	1
		14	2

HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS
STA 6+00 TO STA 8+50

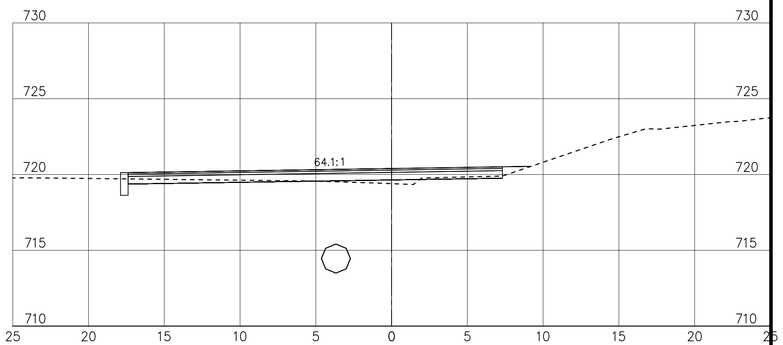
COL-EL RIVERFRONT TRAIL, PHASE 1.1

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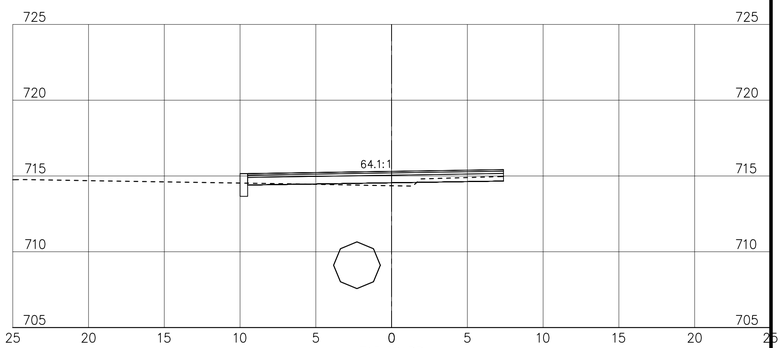
DESIGN AGENCY
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DESIGNER ESD
REVIEWER KTL 01-19-26
PROJECT ID 21-00267-010
SHEET P.17 TOTAL 29

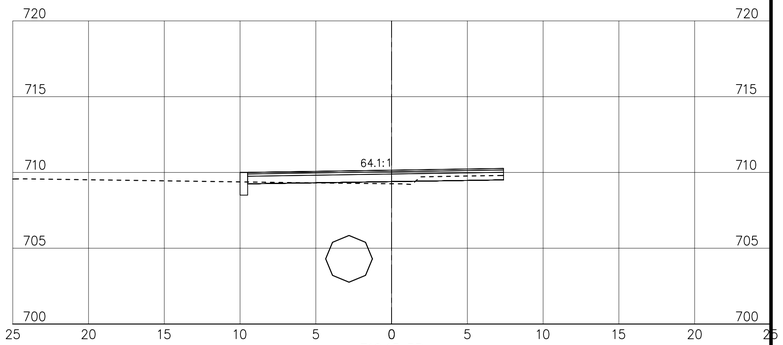
SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
2	6	3	2	2	1
0	0	2	1	4	1
0	0	2	1	4	1
6				13	4



720.39 PR
STA 10+00
719.4 EX



715.30 PR
STA 9+50
714.4 EX



710.15 PR
STA 9+00
709.3 EX

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: ##### DATE: 8/7/2026 TIME: 5:17:46 PM
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HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS STA 9+00 TO STA 10+00

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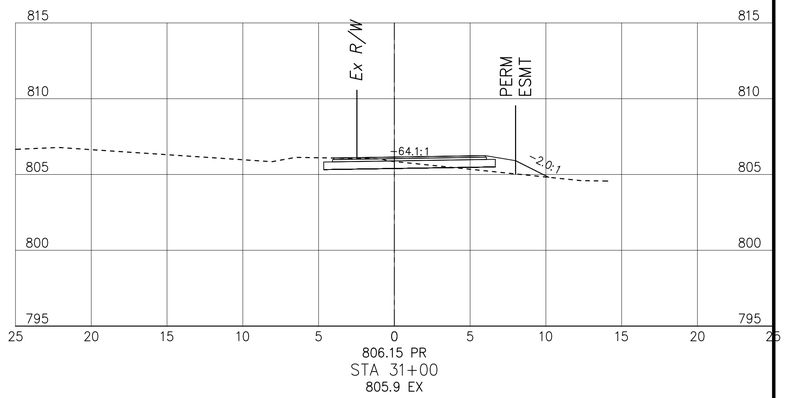
DESIGNER ESD

REVIEWER KTL 01-19-26

PROJECT ID 21-00267-010

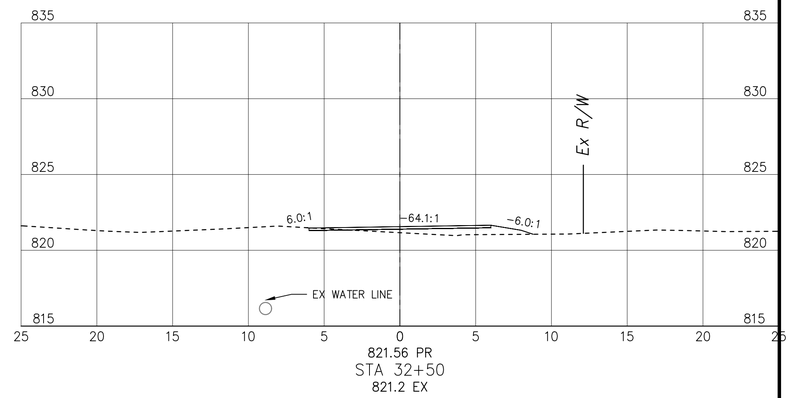
SHEET P.18 | TOTAL 29

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
4	17	4	3	12	3	3	14



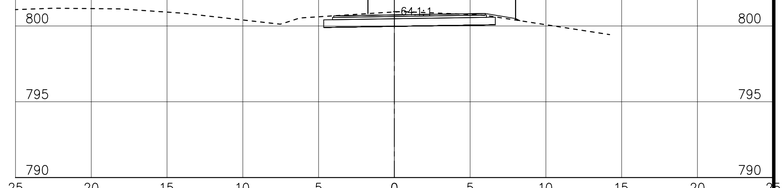
806.15 PR
STA 31+00
805.9 EX

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	4	1	4



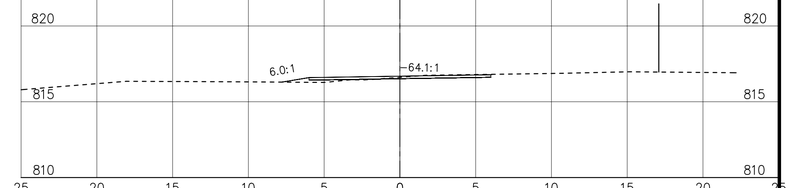
821.56 PR
STA 32+50
821.2 EX

2	23	9	0	21	0	2	17



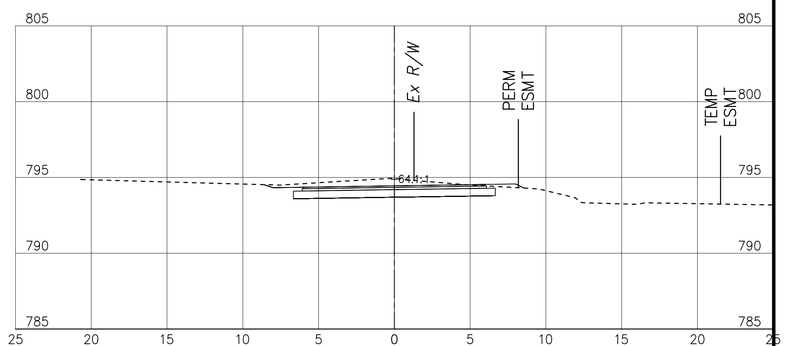
800.73 PR
STA 30+50
800.9 EX

1	1	6	3	6	3	1	4



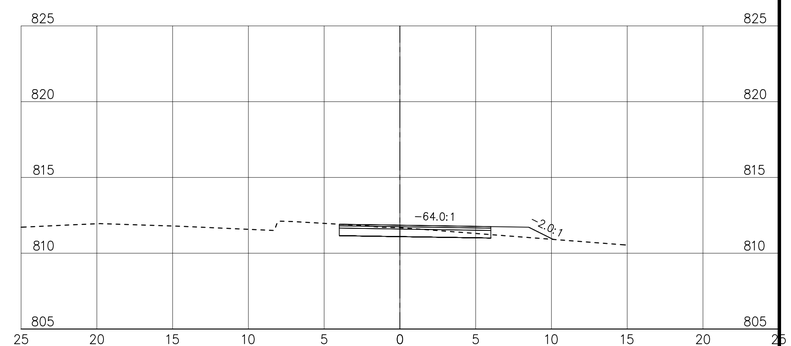
816.69 PR
STA 32+00
816.6 EX

6	0	14	0	13	0	4	23



794.45 PR
STA 30+00
794.9 EX

5	2	8	4	21	17	55	3	54



811.85 PR
STA 31+50
811.7 EX

HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS STA 30+00 TO STA 32+50

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:17:52 PM
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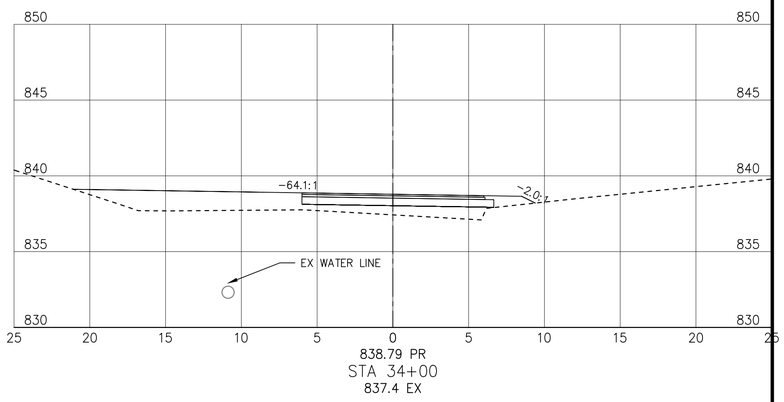
DESIGN AGENCY
Environmental Design Group
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DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.19
TOTAL	29

COL-EL RIVERFRONT TRAIL, PHASE 1.1

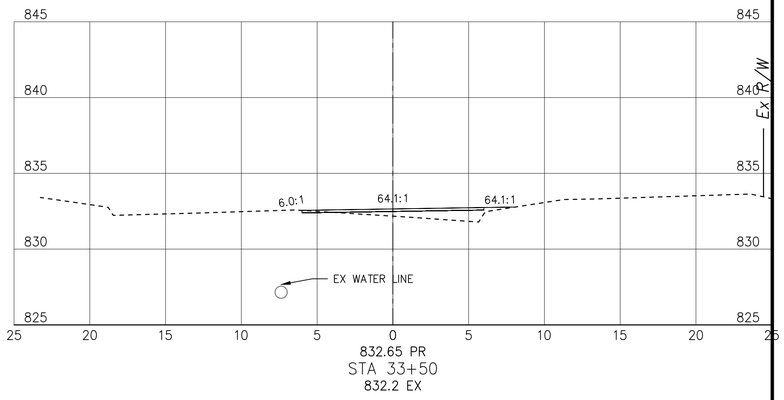
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SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
18	56	0	25			24	167
2	12	0	4			36	153
2	14	0	3			19	103
	82	2	42				423



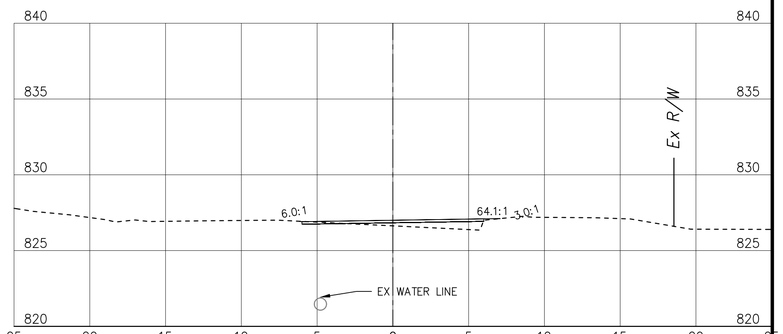
838.79 PR
STA 34+00
837.4 EX

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	27



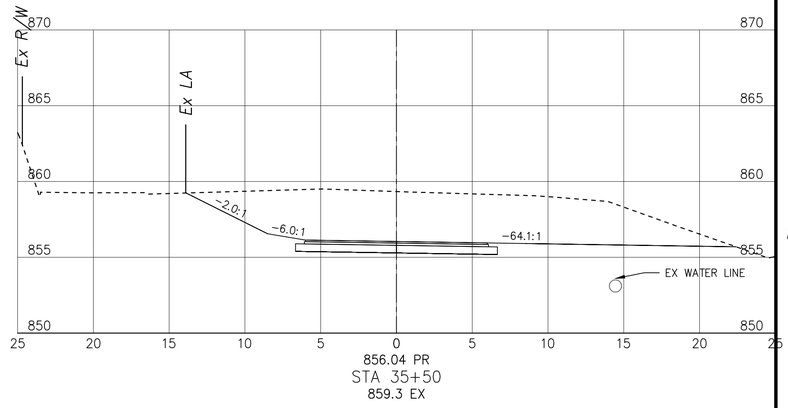
832.65 PR
STA 33+50
832.2 EX

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	6		



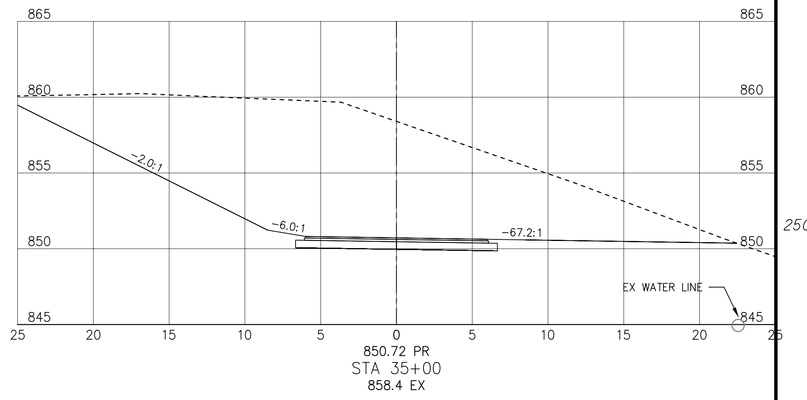
827.00 PR
STA 33+00
826.6 EX

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	6		

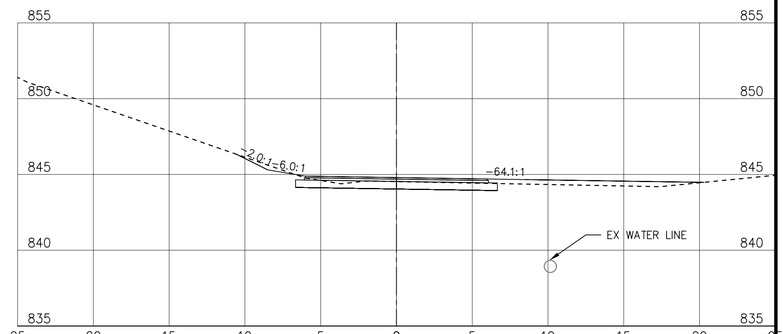


856.04 PR
STA 35+50
859.3 EX

END AREA		VOLUME	
CUT	FILL	CUT	FILL
102	0	326	0
250	0	247	3
7	4	6	25
		579	28



850.72 PR
STA 35+00
858.4 EX



844.79 PR
STA 34+50
844.5 EX

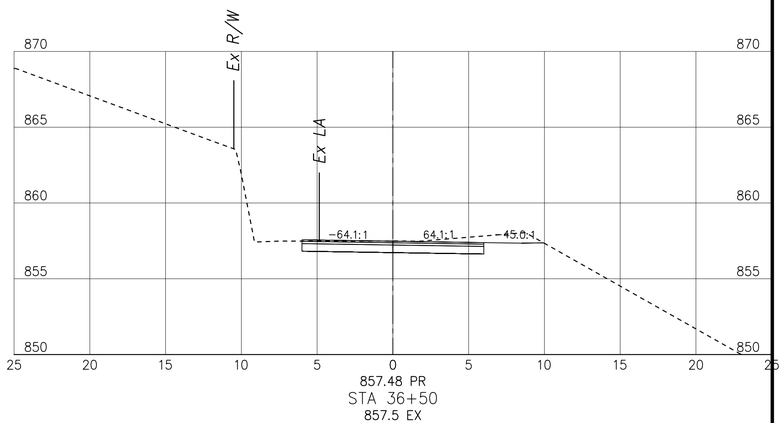
HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS STA 33+00 TO STA 35+50

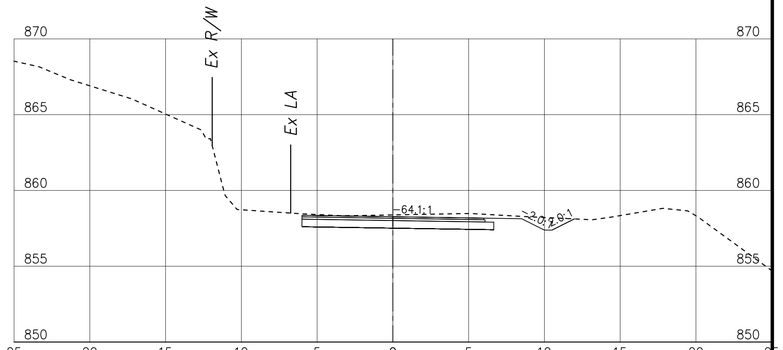
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REVIEWER KTL 01-19-26
PROJECT ID 21-00267-010
SHEET P.20 TOTAL 29

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
3	25				
		12	0		
				23	0
6	84				
		13	0		
				107	0
	109			130	0



857.48 PR
STA 36+50
857.5 EX



858.27 PR
STA 36+00
858.4 EX

GRAND TOTALS	
CUT	FILL
1209	111

HORIZONTAL SCALE IN FEET
0 2.5 5 10

RIVERFRONT TRAIL CROSS SECTIONS
STA 36+50 TO STA 36+00

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 8/7/2026 TIME: 5:18:01 PM
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KTL	01-19-26
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21-00267-010	
SHEET	TOTAL
P.21	29

NOTES

1. THE CONTRACTOR SHALL TAPER THE CURB OVER 3 FEET TO BE FLUSH WITH THE BOAT RAMP

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

HORIZONTAL SCALE IN FEET
0 5 10 20

END EDGE LINE, 4" AND DELINEATORS
3+54.51, 6.53' LT

CENTERLINE (TYP.)

BEGIN DELINEATORS
3+06.02, 4.10' LT

689.25
688.79
688.91

RELOCATED LIGHT POLE & RRFB
3+09.14, 5.97' RT (SG-2)

EX. 688.63
CURB RAMP
EX. 688.81

PROPOSED GRADE
PUSHBUTTON
MOUNT PER TC-42.20

NORFOLK SOUTHERN RAILROAD

54" ELECTRIC POLE

EX. BUILDING

RIVER ROAD

END DELINEATORS
N 958371.13
E 2503022.93

TRANSVERSE LINE (TYP.)

688.30
688.26

BEGIN EDGE LINE, 4" AND DELINEATORS
N 958356.78
E 2503083.21

RRFB PUSH BUTTON ON PEDESTAL
1+64.80, 6.96' RT (SG-1)

TC: 687.43
BC: 686.94
TC: 687.68
BC: 687.18
686.75
TC: 686.80
BC: 686.38
687.57
687.61

RELOCATED EX. CONCRETE JERSEY BARRIER (TYP.) (2 TOTAL)

TC: 686.75
BC: 686.25
INTEGRAL CURB AND WALK

TC: 686.98
BC: 686.65

WALNUT STREET

CURB RAMP

BEGIN CURB, TYPE 6
SEE NOTE 1
0+46.62, 5.03' LT
685.60

685.70
EX. 685.80
CURB RAMP
EX. 686.22
EX. 686.34
EX. 685.73

CROSSWALK LINE, 24" (TYP.)

TC: 685.08
TC: 685.08

CURB RAMP
EX. 685.40

TC: 686.60
BC: 686.30
TC: 686.98
BC: 686.39
TC: 686.21
BC: 686.21
TC: 686.98
BC: 686.38

DETECTABLE WARNING. (TYP.)

EX. 685.30

SAWCUT AND MEET AND MATCH EXIST WALK

EX. 686.34
EX. 686.43
686.33
EX. 683.00

685.47
685.57
685.61
685.34
685.24

END CURB, TYPE 6
2+07.51, 95.70' LT
TC: 685.64
BC: 685.14

EX. 685.42
EX. 685.44
EX. 685.27
EX. 685.29
EX. 685.16
EX. 685.08

SAWCUT AND MEET AND MATCH EX. PAVEMENT

SAWCUT AND MEET AND MATCH EX. PAVEMENT

BROADWAY WHARF

EX. 682.96
EX. 682.85

D11-1 24"X18" M4-6 12"X6" POLE MOUNTED
BEGIN
BIKE ROUTE
END
D11-1 24"X18" M4-1-4P 12"X6" POLE MOUNTED

PROPOSED GRADE
MOUNT PER TC-42.20

0 10 20
GRAPHIC SCALE IN FEET

RIVER ROAD AND WALNUT STREET INTERSECTION ENLARGEMENT A

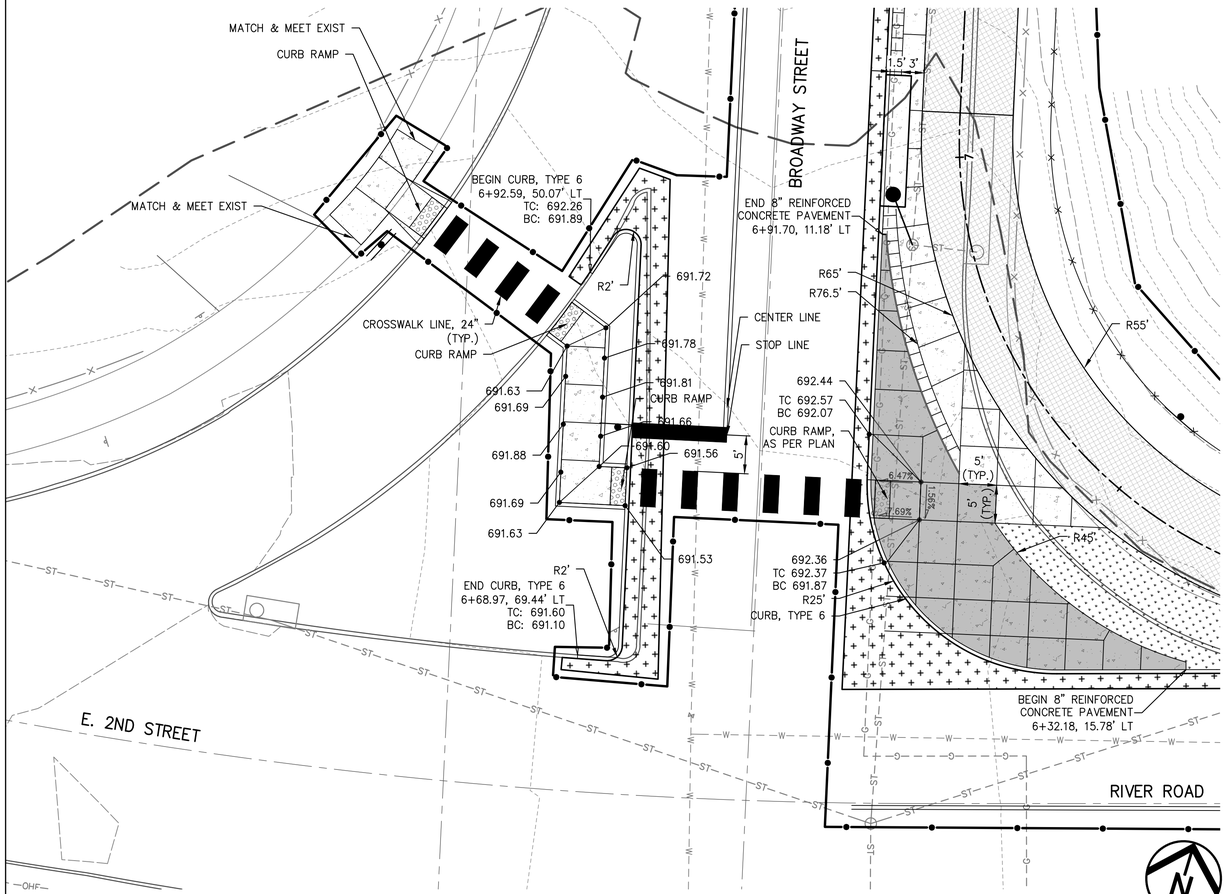
INTERSECTION ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

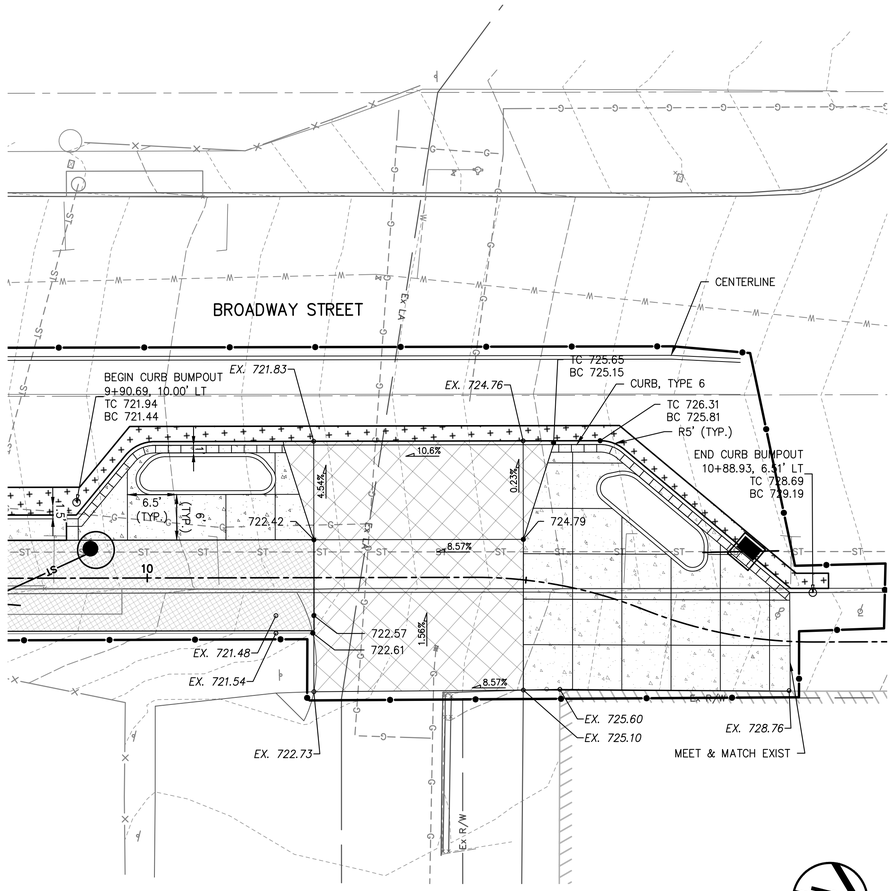
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SHEET	TOTAL
P.22	29



RIVER ROAD, E 2ND STREET AND BROADWAY STREET INTERSECTION
ENLARGEMENT B



KENT STATE MAIN BUILDING DRIVE (BROADWAY STREET)
ENLARGEMENT C

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT
- EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

0 10 20
GRAPHIC SCALE IN FEET

HORIZONTAL SCALE IN FEET
0 5 10 20

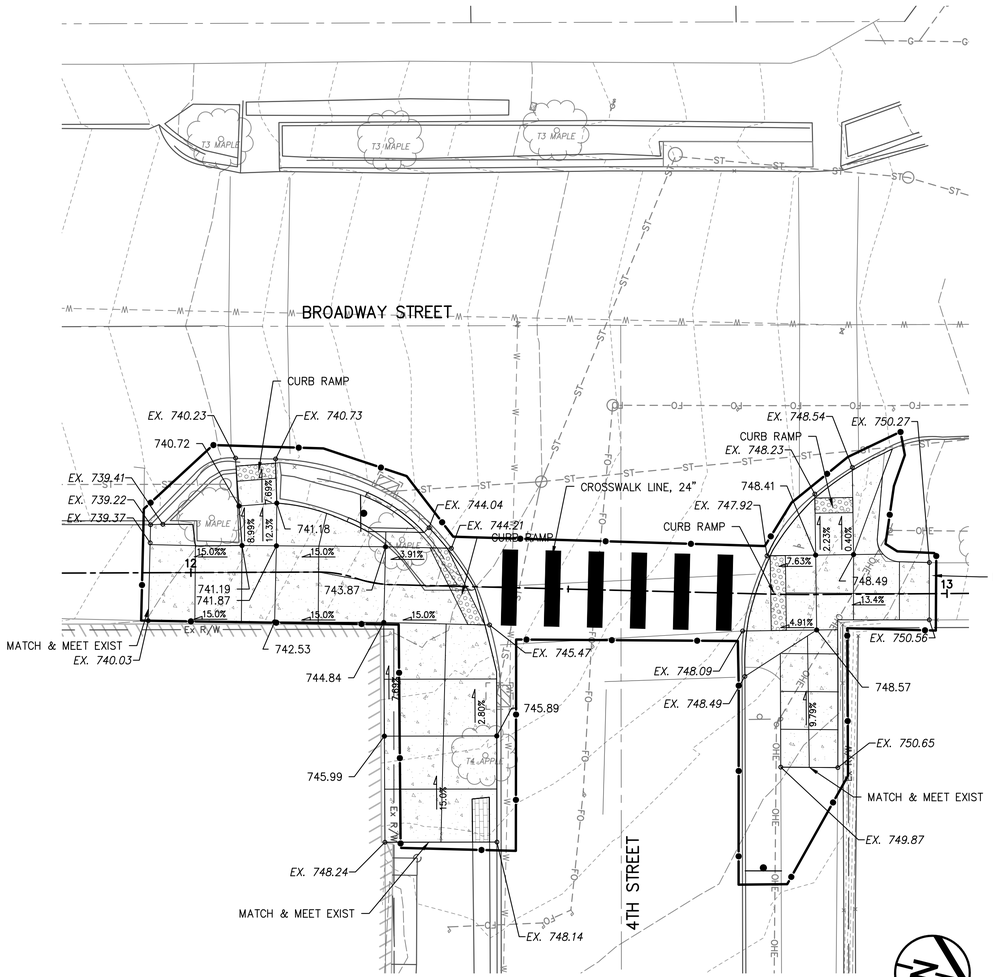
INTERSECTION ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

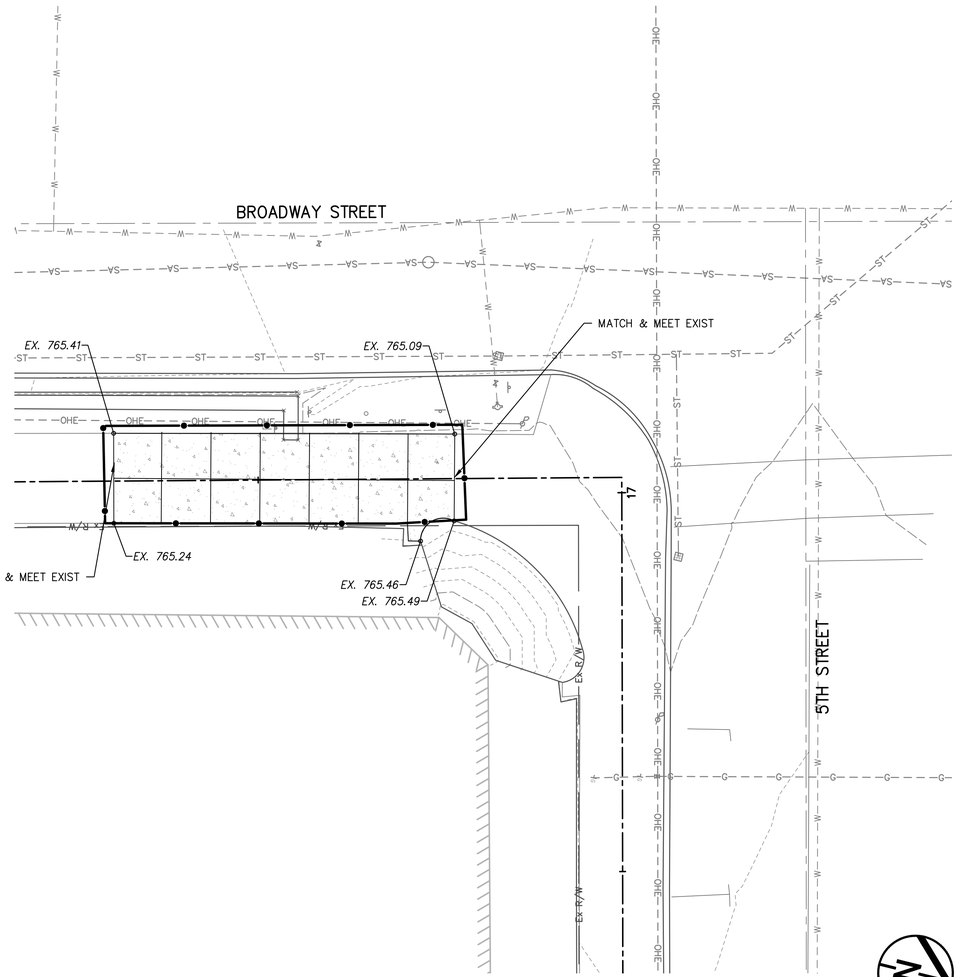
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SHEET	P.23
TOTAL	29



BROADWAY STREET AND 4TH STREET INTERSECTION
ENLARGEMENT D



BROADWAY STREET AND 5TH STREET INTERSECTION
ENLARGEMENT E

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

0 10 20
GRAPHIC SCALE IN FEET

HORIZONTAL SCALE IN FEET
0 5 10 20

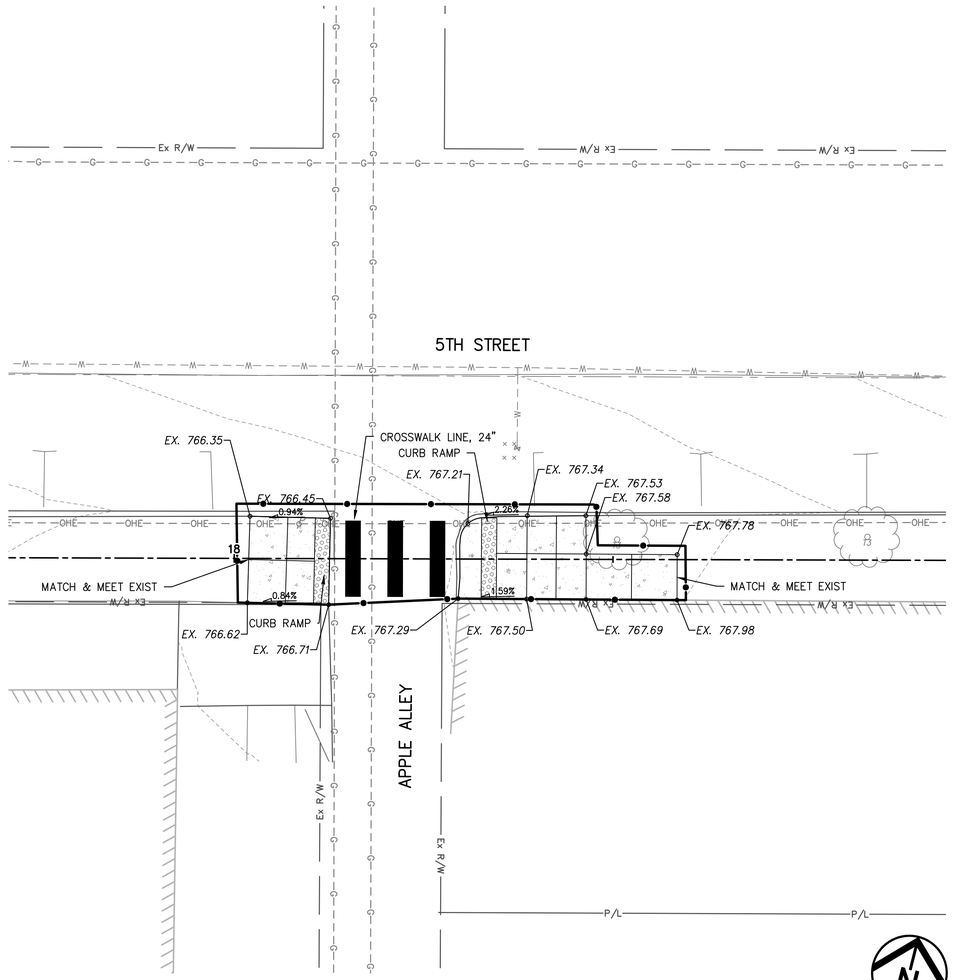
INTERSECTION ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

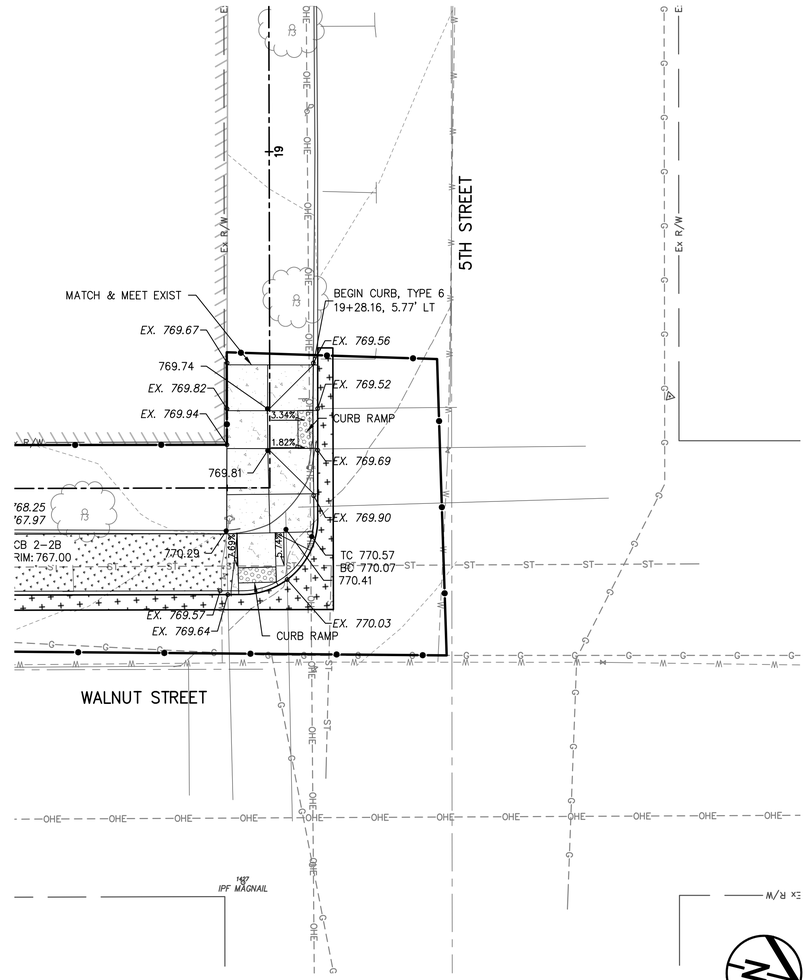
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SHEET	P.24
TOTAL	29



5TH STREET AND APPLE ALLEY INTERSECTION
ENLARGEMENT F



5TH STREET AND WALNUT STREET INTERSECTION
ENLARGEMENT G

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY

0 10 20
GRAPHIC SCALE IN FEET

HORIZONTAL SCALE IN FEET
0 5 10 20

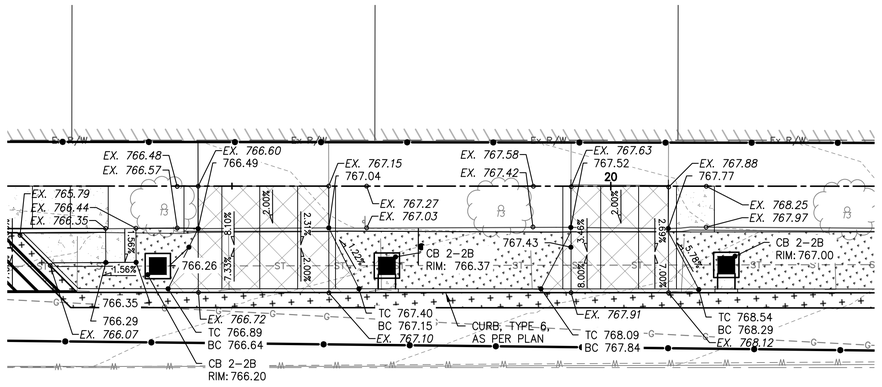
INTERSECTION ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

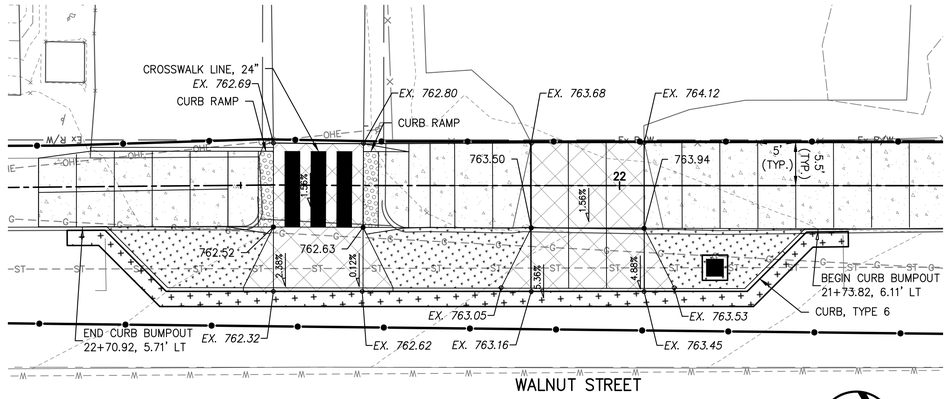
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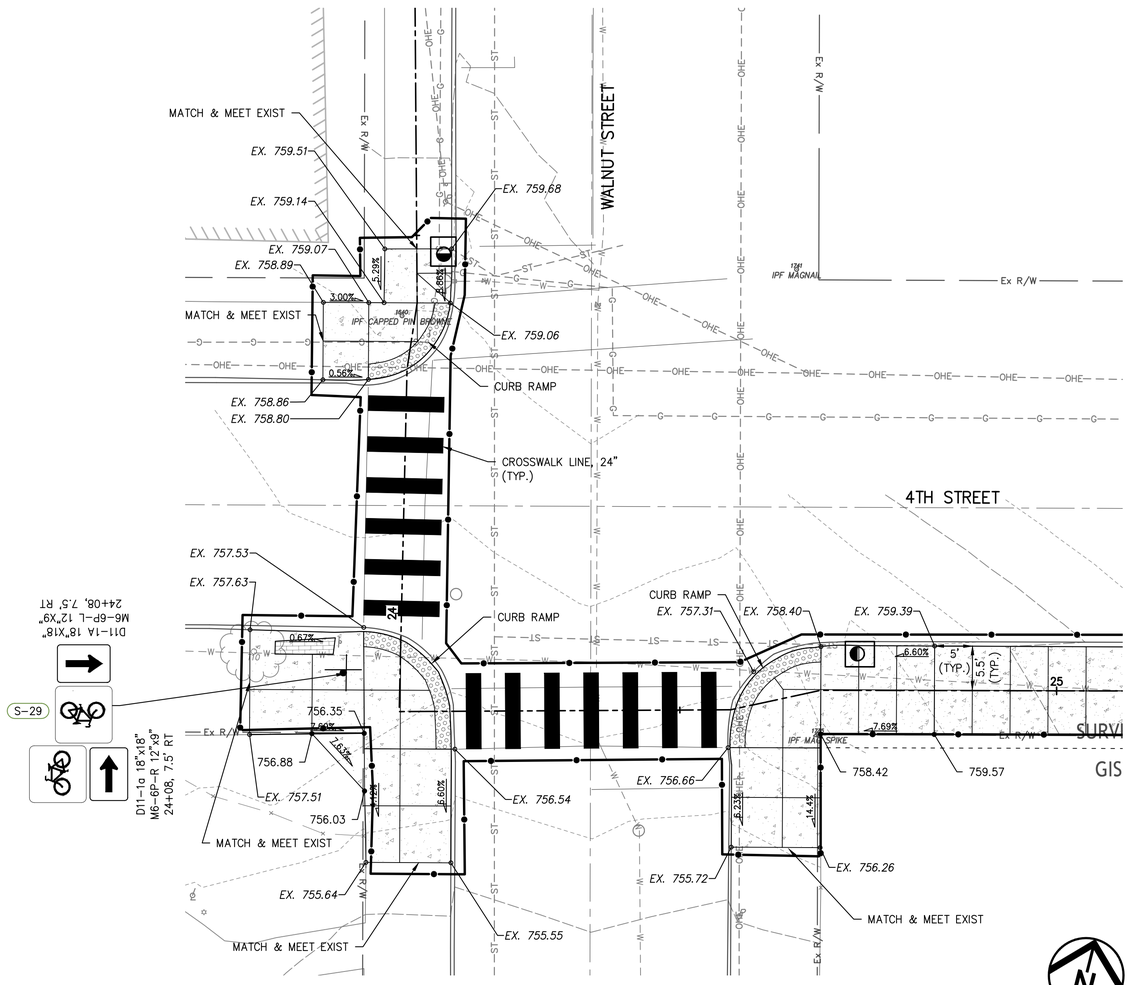
DESIGNER	ESD
REVIEWER	KTL 01-19-26
PROJECT ID	21-00267-010
SHEET	P.25
TOTAL	29



LITTEN MOTOR SALES CO. DRIVES (WALNUT STREET) ENLARGEMENT H



JANE L. RUDIBAUGH AND ALLEY DRIVE(WALNUT STREET) ENLARGEMENT I



4TH STREET AND WALNUT STREET INTERSECTION ENLARGEMENT J

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

0 10 20
GRAPHIC SCALE IN FEET

HORIZONTAL SCALE IN FEET
0 5 10 20

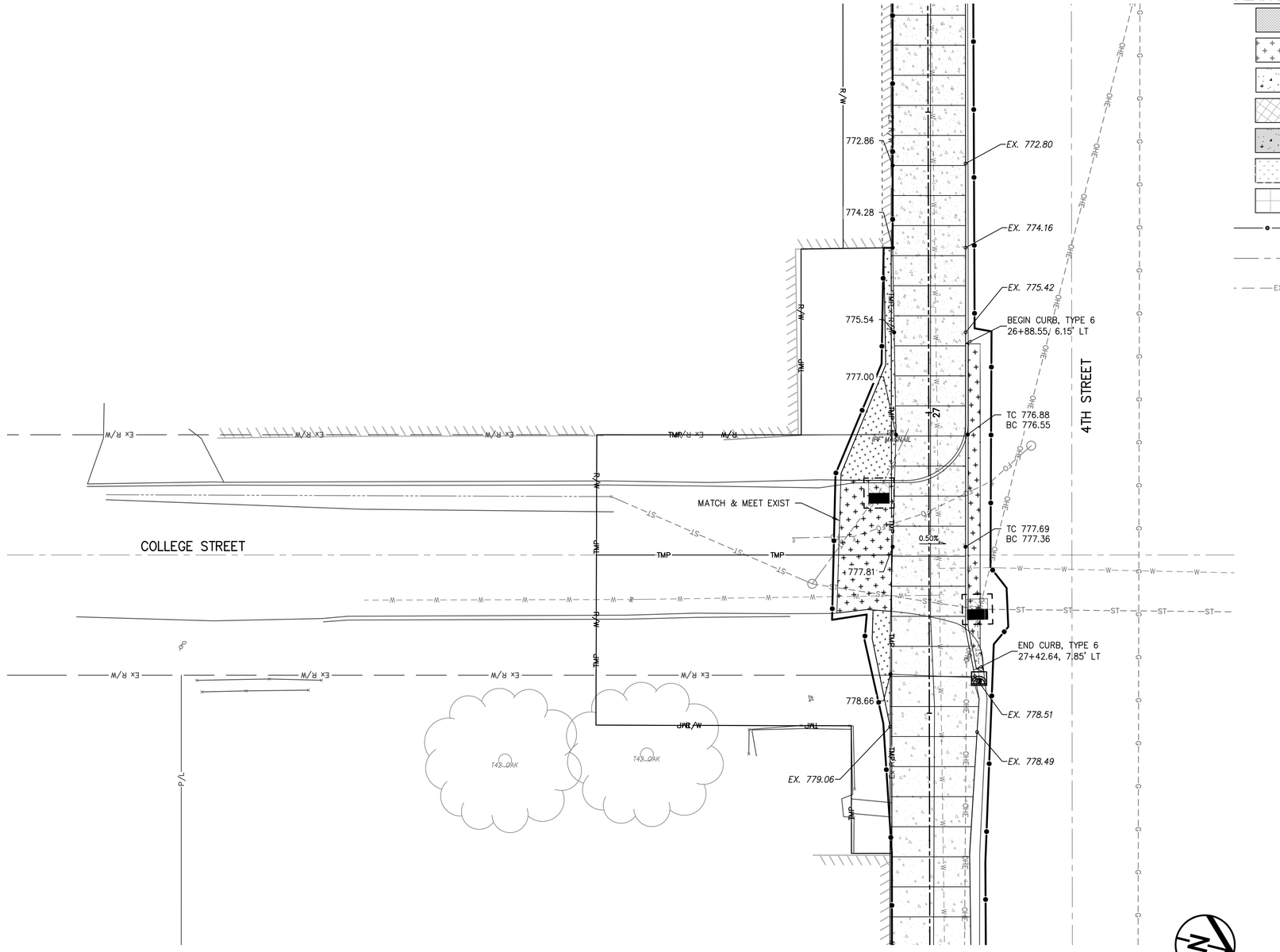
INTERSECTION ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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PROJECT ID 21-00267-010
SHEET P.26 TOTAL 29



4TH STREET AND COLLEGE STREET INTERSECTION
ENLARGEMENT K

0 10 20
GRAPHIC SCALE IN FEET

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY

HORIZONTAL SCALE IN FEET
0 5 10 20

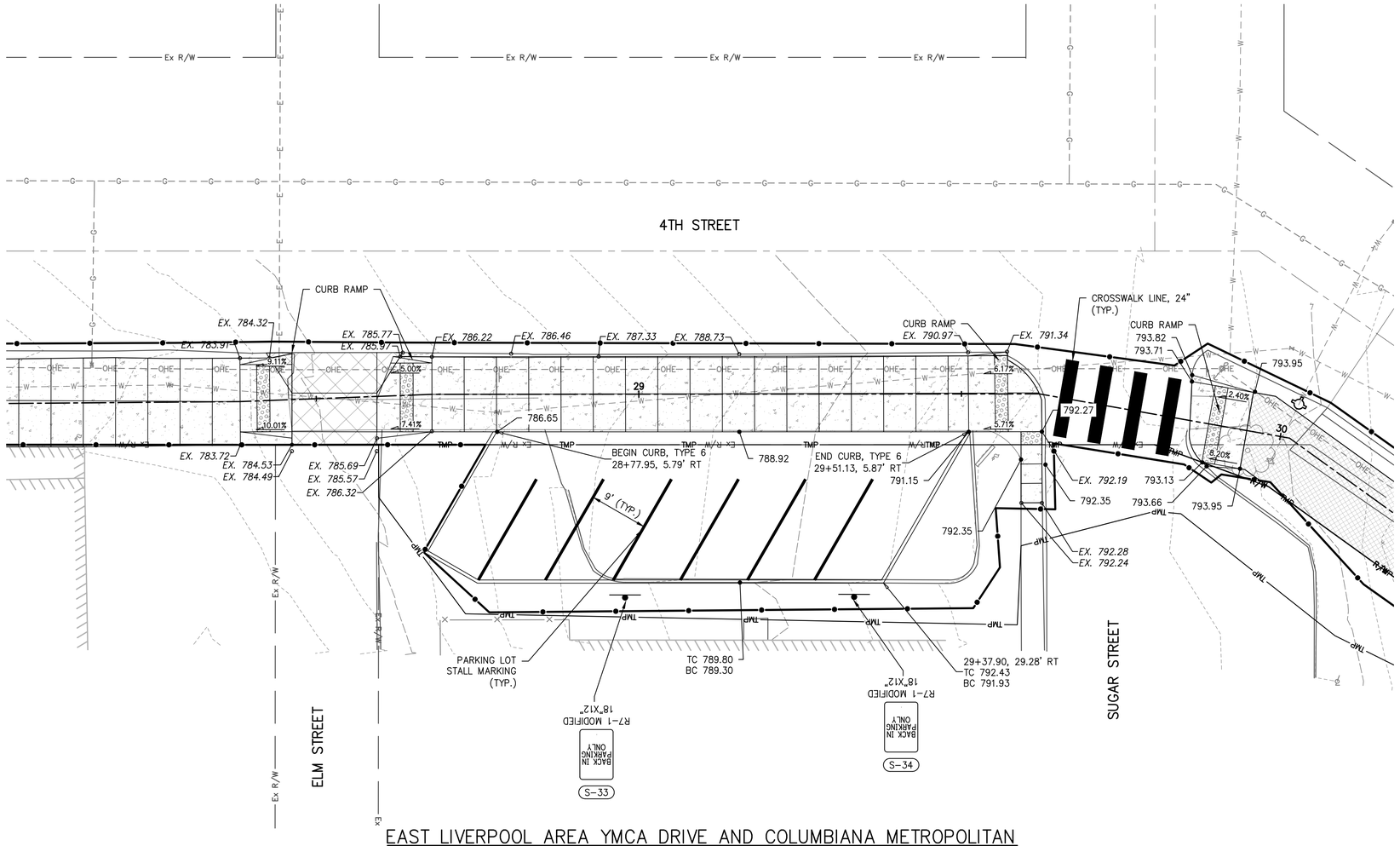
DRIVE ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

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PROJECT ID	21-00267-010
SHEET	P.27
TOTAL	29



EAST LIVERPOOL AREA YMCA DRIVE AND COLUMBIANA METROPOLITAN HOUSING AUTHORITY PARKING LOT AND DRIVE AND (4TH STREET) ENLARGEMENT L

PLAN LEGEND

- ASPHALT TRAIL
- FULL DEPTH ASPHALT PAVEMENT
- 4" CONCRETE WALK
- 8" NON-REINFORCED CONCRETE
- 8" REINFORCED CONCRETE PAVEMENT
- SEEDING AND MULCHING, CLASS 1
- CONTROL JOINT / EXPANSION JOINT
- WORK LIMITS
- PROPERTY BOUNDARY
- EX RW — EXISTING RIGHT OF WAY

GRAPHIC SCALE IN FEET 0 10 20

HORIZONTAL SCALE IN FEET 0 5 10 20

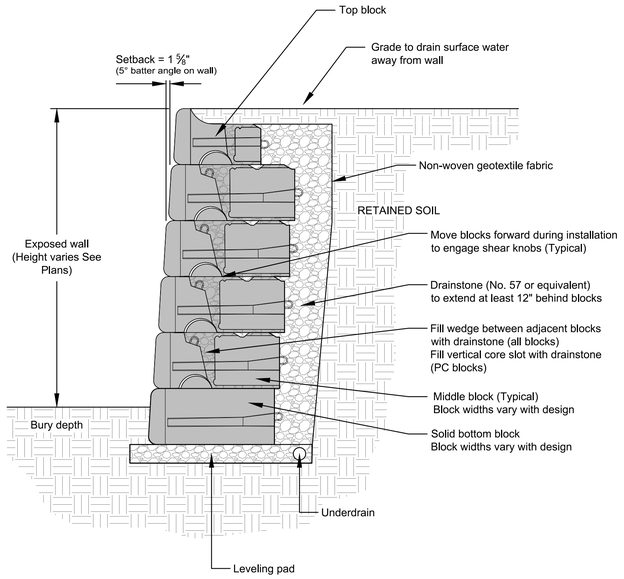
DRIVE ENLARGEMENT

COL-EL RIVERFRONT TRAIL, PHASE 1.1

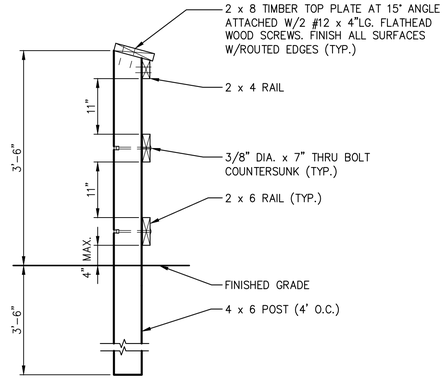
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SHEET	TOTAL
P.28	29

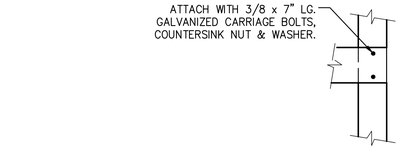


1 P.29 **RETAINING WALL**
NOT TO SCALE

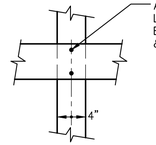


SECTION

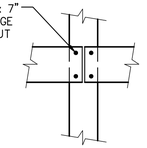
NOTES:
1.ALL HARDWARE SHALL BE MANUFACTURED FROM MEDIUM CARBON STEEL AND BE HOT-DIP GALVANIZED PER ASTM 153A OR 153M AND ODOT SECTION 711.02.



RAILING END ELEVATION

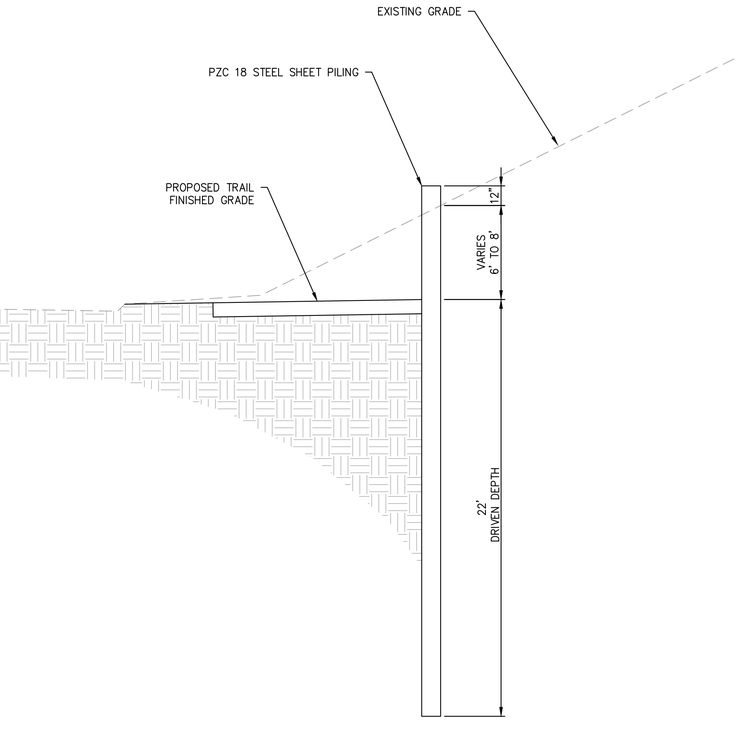


RAIL ELEVATION @ POST

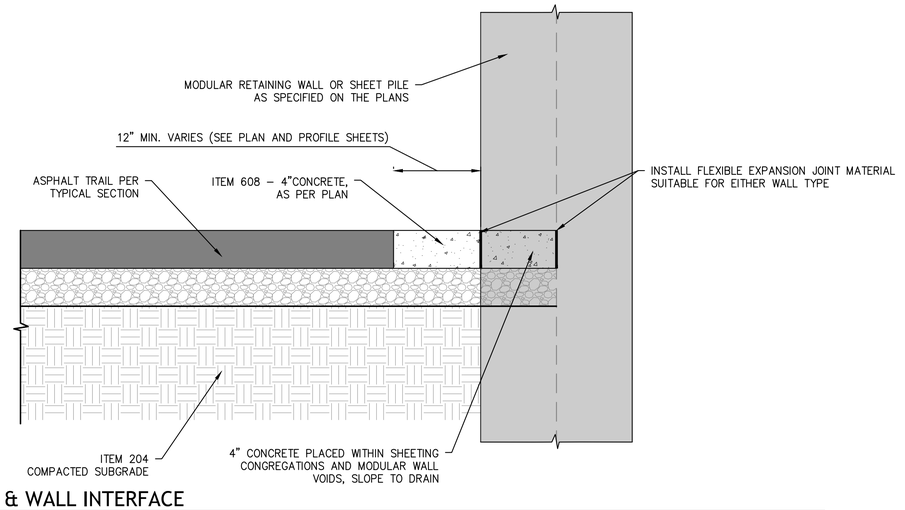


RAIL END ELEVATION

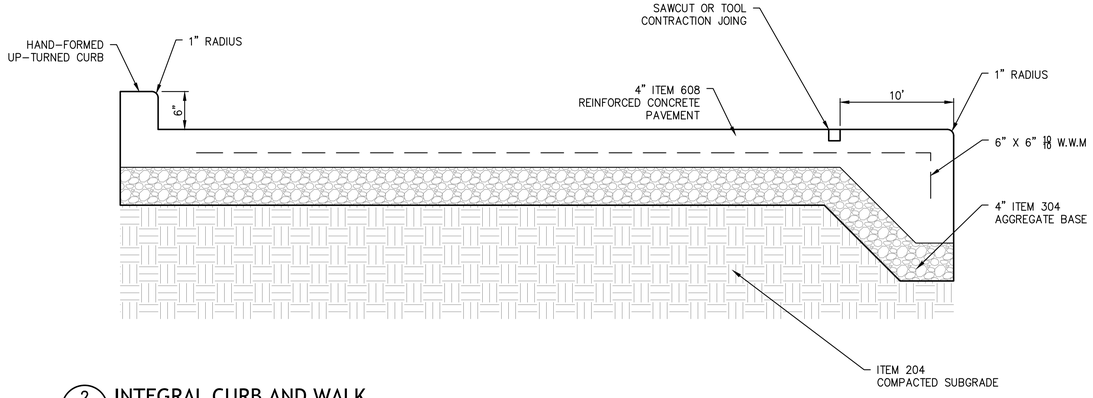
3 P.29 **ITEM 607 - FENCE, MISC.: TIMBER RAIL**
NOT TO SCALE



5 P.29 **SHEET PILING DETAIL**
NOT TO SCALE



4 P.29 **TRAIL & WALL INTERFACE**
NOT TO SCALE



2 P.29 **INTEGRAL CURB AND WALK**
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 5 10 20

CONSTRUCTION DETAILS

COL-EL RIVERFRONT TRAIL, PHASE 1.1

DWG: #### DATE: 10/27/2026 TIME: 2:01:48 PM
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KTL	01-19-26
PROJECT ID	
21-00267-010	
SHEET	TOTAL
P.29	29