



- Facility Planning & Design
- Cost Estimating & Feasibility Studies
- Site Analysis & Acquisition
- Construction Management
- Facility Management

ADDENDUM 6

June 25, 2026

ADDENDUM NUMBER 6 to CONTRACT DOCUMENTS for

A NEW PUBLIC WORK FACILITY

810 Northwoods Blvd
Vandalia, Ohio 45377

Documents prepared by WDC Group LLC, Springfield, Ohio, dated May 18, 2025

PART I - TO ALL CONTRACTORS:

- A. This Addendum is part of the contract documents. Changes shall be taken into account in preparing the bid. Contractors shall verify this by indicating receipt of addendum in their bids.

PART II - INTENT AND SCOPE:

- A. **REMINDER:** Bids shall be enclosed in a sealed envelope addressed to the City of Vandalia, 333 James E. Bohanan Memorial Drive, Vandalia, Ohio 45377, and plainly marked on the outside "NEW PUBLIC WORKS FACILITY." Bids will be received until 11:00 AM, local time July 8, 2026, at the Development and Engineering Services, 333 James E. Bohanan Memorial Drive and immediately after the deadline the bids will be opened and publicly read aloud in the Council Chambers at 333 James E. Bohanan Memorial Drive (Municipal Building), Vandalia, Ohio 45377.
- B. **CHANGE:** All questions, substitution requests, and requests for information are to be emailed to cavec@wdc-group.com by noon on June 30, 2026.
- C. **CLARIFICATION:** Attached to this Addendum is a current list of known planholders.
- D. **CLARIFICATION:** There is no cost to the contractors for any environmental permits for the project. The Owner is responsible for costs associated with those permits.
- E. **CLARIFICATION:** Liquidated damages for substantial completion are \$500 per day. Liquidated damages for not providing the coordinating contractor schedule per the specifications is \$50 per day. There is no Liquidated Damage for shop drawing submittals.

- F. CLARIFICATION: The raceways for the low voltage cabling are included in the 17A, 17B, and 17C Bid Packages and have to be provided by the Owner's 17A vendor.
- G. ADD: For reference, WDC is providing the Vandalia Public Works Culvert Project Contract Documents, as they may affect calculations, design considerations, or other information required for this project.
- H. ADD: Reference - Water Flow Test Information. See the attached Flow Test Information provided by the Owner.
- I. ADD: Reference Transfer Pad. See attached Transfer Pad Electric Construction Standards from AES/DP&L (Electric Utility Provider). The transfer pad work shown on this sheet shall be performed by 1A – GW&L Contractor. All electrical connection work shall be performed by 16A – Electrical Contractor.
- J. CLARIFICATION: No conduit are required for the CCTV cameras. Contractors are to follow the requirements indicated on Sheet E4.4 - Camera Layout Floor Plan, Coded Notes 1 and 2, and the applicable provisions of Specification Section 01110 - Summary of Work.
- K. CLARIFICATION: Ben Borton is the Owner's Representative for the project and should be the primary point of contact for any owner-provided work, owner-furnished equipment, or vendors working directly for the Owner.
- L. CLARIFICATION: ALL CMU for this project is to be painted. No split-face CMU is required.
- M. CLARIFICATION: If additional work is required of Contractor, the unit costs supplied in the Bid Form will be used to modify the contract amount. The Owner will pay Construction Testing Company.

PART III - SPECIFICATIONS

- A. CHANGE: Section 00101 - Invitation to Bid. Replace the phrase, "Ohio Revised Code (307.90)" in the section with "per City of Vandalia Procurement Policies and Ordinances".
- B. CLARIFICATION: Section 00101 - Invitation to Bid. It is the intent of the Owner to award the project based on the Bid Packages included in this section or combinations of the listed bid packages. It is not the intent of the Owner to award portions of Bid Packages separately.
- C. CLARIFICATION: Section 00400 - Bid Form. Bidders who choose to provide a Combination Bid only (via a letterhead document using the

same nomenclature as on the Bid Form) do not have to complete the Section D of the Bid Form for each individual Bid Package. However, if a Bidder is intending to bid both a combination bid as well as individual bid packages, they should complete both Section D of the Bid Form and provide their combination bids on company letterhead as explained by WDC at the Pre-Bid Conference.

- D. ADD: Section 00850 - Prevailing Wage. Add the following attached prevailing wage updates to the project manual:
 - 1. Bricklayer Local 23 (Dayton)
 - 2. Bricklayer Local 23 Heavy Hwy (A)
 - 3. Bricklayer Local 23 Heavy Hwy (B)
 - 4. Carpenter & Pile Driver SW Zone 1
 - 5. Cement Mason Local 132 (Dayton)
 - 6. Electrical Local 71 DOT Traffic Signal Highway Lighting American Line Builders
 - 7. Electrical Local 82 Inside Lt Commercial South West
 - 8. Ironworker Local 290
 - 9. Plasterer Local 132 (Dayton)

- E. ADD: Section 02829 - Electric Gate Operators. Add the attached Section 02829 to the 1A - GW&L Scope of Work for the project.

- F. REPLACE: Section 03300 - Cast-In-Place Concrete. Use the attached Section 03300 in lieu of the section previously provided.

- G. CHANGE: Section 07262 - Below-Grade Vapor and Gas Barrier. Delete the word "insulated" from Part I, A, 1.

- H. CHANGE: Section 08710 - Door Hardware. Change all references of "Security Contractor" to "17B - Building Alarm & Security Contractor" and all references of "Access Control Contractor" to "17C - Access Control Contractor"

- I. CLARIFICATION: Section 13120 – Pre-Engineered Metal Building (PEMB).
 - 1. The Basis-of-Design PEMB manufacturer is Butler. However, the structural foundations and footings were designed using PEMB reactions provided by American Buildings. Any approved alternate PEMB manufacturer shall be responsible for evaluating differences between its design reactions & conditions and those shown in the Contract Documents for foundations, and for identifying any required engineering, foundation, or footing modifications resulting from those differences from the Contract Documents and preparing all drawings and detailed prepared by an Ohio Registered

Engineer and submitted as the delegated design to be reviewed by the Project Structural Engineer of Record.

2. Foundation designs were prepared with recommendations in the Geotechnical Report.

J. CHANGE: Section 13120 – Pre-Engineered Metal Building (PEMB). Part I, C, 1. Delete the following sentence, "The Contractor / PEMB Manufacturer shall also bear the cost of any additional structural engineering review by the project design engineer."

PART IV - DRAWINGS

A. CLARIFICATION: Sheet A1.2 - Floor Plan. The eight rectangular boxes shown adjacent to one another in Administrative Room 102 represent furniture (file cabinets) to be provided by Owner and are shown for reference only.

B. CLARIFICATION: Sheet A8.1 - Door Schedules & Details. All hollow metal doors and frames shall be factory-primed and field-painted. Overhead doors shall be factory-finished with manufacturer's standard paint system. The contractor shall provide the manufacturer's standard color selection for all overhead doors. Final color selections of overhead doors shall be made but the owner and architect prior to material ordering.

END OF ADDENDUM 5

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 18).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF VANDALIA.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

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

STREETS, STORM, SANITARY AND WATER

CITY OF VANDALIA
333 JAMES E. BOHANAN
VANDALIA, OHIO 45377
(937) 898-3750

FIBER

METRONET
100 HARRISBURG ROAD
ENGLEWOOD, OHIO 45322
ATTN: JEROD INGELS
jerod.ingels@metronet.com

ELECTRIC

AES
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 331-4025
ATTN: BHAVYA KATTA

ELECTRIC

MIAMI VALLEY LIGHTING
1065 WOODMAN DRIVE
DAYTON, OHIO 45432
(937) 259-7192
ATTN: ROBYN LIVESAY

TELEPHONE

AT&T
7201 FAR HILLS AVE.
CENTERVILLE, OHIO 45459
(937) 296-3588
ATTN: HOWARD LAUDERMILK

CABLE

CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OHIO 45415
(937) 396-8372
ATTN: DYLAN DORRIS

GAS

CENTERPOINT ENERGY
2345 E. MAIN ST.
DANVILLE, IN 46122
(317) 718-3639

OHIO UTILITIES PROTECTION SERVICE 2
WORKING DAYS BEFORE YOU DIG CALL
TOLL FREE 800-362-2764

UTILITY INTERFERENCE

IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE CITY OF VANDALIA BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF VANDALIA. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE CITY OF VANDALIA. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

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, THE CONTRACTOR SHALL 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, CITY OF VANDALIA SHALL BE NOTIFIED 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 THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, CITY OF VANDALIA SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING AND BY-PASS PUMPING

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (I.E. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED ODOT MATERIALS NUMBERS

CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP)	707.33
POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP)	707.65
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

GENERAL NOTES

- INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS.
- ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.
- CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.
- ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.
- ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL ACCESS TO 811 NORTHWOODS BLVD, 800 FALLS CREEK DRIVE, AND 780 NORTHWOODS BLVD MUST BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION. ANY RESTRICTION OF ACCESS OR CLOSURE IS PROHIBITED WITHOUT THE WRITTEN PERMISSION BY THE GOVERNING AUTHORITY.

NORTHWOODS BLVD SHOULD NOT BE USED FOR STORAGE OF MATERIALS OF EQUIPMENT. WHEN DELIVERING MATERIALS AND EQUIPMENT TO THE PROJECT LOCATION, CARE SHOULD BE TAKEN AS TO NOT DAMAGE NORTHWOODS BLVD PAVEMENT OR CURB.

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

CONSTRUCTION TRAFFIC TO UTILIZE NORTHWOODS BLVD. ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF VANDALIA AND/OR OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING

CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT. UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

THE CITY OF VANDALIA HAS ALREADY CLEARED THE MAJORITY OF THE SITE. THERE ARE STILL TREES AND BRUSH STANDING NEAR THE CULVERT AREA THAT WILL NEED TO BE REMOVED.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

NONRUBBER TIRE VEHICLES

NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON CITY STREETS. EXCEPTIONS MAY BE GRANTED BY THE CITY WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE CITY'S REPRESENTATIVE SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.



REVISIONS:



A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA VANDALIA, OHIO 46311 004A

PROJECT NO: 23014
DRAWN BY: JMK
DATE: 01-13-2026
CHECKED BY: MLS



GENERAL NOTES FOR CIVIL WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ANY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN ORDER TO DETERMINE THE EXISTING GROUND AND SITE CONDITIONS. FOR SOIL TYPE AND GROUND WATER TABLE, THE CONTRACTOR IS ENCOURAGED TO UTILIZE ANY AVAILABLE DATA TO ESTIMATE GROUND CONDITIONS. SHOULD THE BIDDING CONTRACTOR REQUIRE ADDITIONAL TEST HOLES PRIOR TO BIDDING IN ORDER TO DETERMINE OR VALIDATE GROUND CONDITIONS, THIS CAN BE COMPLETED AT THE DISCRETION OF THE OWNER. NO TEST HOLES ARE TO BE DUG WITHOUT CONTACTING THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION AND WITHOUT RECEIVING WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED, REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON-SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

7. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS. IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNER'S REQUIREMENTS ARE TO BE FOLLOWED UNLESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DEFINED BY LOCAL OR GOVERNING AUTHORITIES. WHERE A NON-COMPLIANCE ISSUE IS NOTED, THE CONTRACTOR IS TO MAKE THE OWNER AND ENGINEER AWARE OF THE GOVERNING CODE.

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES, NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH THE EXCAVATED TRENCH. ANY DRAINAGE TILES ENCOUNTERED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

ITEM 204 SUBGRADE COMPACTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE "PROOF ROLLING" WITH A LOADED TANDEM TRUCK AS DIRECTED BY THE CITY UNTIL NO DEFLECTION OR TIRE INDENTATION IN SUBGRADE IS PRESENT.

ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE, EXCEPT AS HEREIN MODIFIED.

THE CONTRACTOR SHALL PROVIDE WATER OR DRY OUT THE AGGREGATE BASE PER 304.05 BRINGING IT TO WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTING.

THE CONTRACTOR SHALL COMPACT THE AGGREGATE BASE USING APPROPRIATE ROLLERS PER 304.04 FOLLOWED BY PROOF ROLLING THE AGGREGATE BASE USING A LEGALLY LOADED TANDEM AXLE DUMP TRUCK AS DIRECTED BY THE CITY UNTIL NO DEFLECTION OR TIRE INDENTATIONS ARE VISIBLE. IN A TRENCH INSTALLATION, THE CONTRACTOR SHALL COMPACT AGGREGATE BASE, WITH PLATE COMPACTOR, SMALL VIBRATORY ROLLER OR OTHER APPROVED METHOD, IN LIFTS OF NO MORE THAN 4" OR AS SPECIFIED IN THE TRENCH DETAIL. THE CONTRACTOR IS TO SUPPLY STANDARD PROCTOR RESULTS FOR AGGREGATE BASE MATERIAL TO BE USED. COMPACTION TESTS MAY BE PERFORMED ON THE AGGREGATE AT THE DISCRETION OF THE CITY ON THE MATERIAL COMPACTION. COMPACTION SHALL MEET OR EXCEED 95% STANDARD PROCTOR.

ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEY MONUMENTS, EXCEPT AS HEREIN MODIFIED.

THE VERTICAL CONTROL IS LISTED ON THE PLANS WITH THE BENCHMARKS. TRAVERSE POINTS ARE SHOWN BELOW FOR HORIZONTAL CONTROL. THE BEARINGS ARE LISTED FOR THE CENTERLINE OF CONSTRUCTION.

TRAV.	ELEV.	NORTHING	EASTING	TYPE
102	954.52	696988.2520	1496494.3050	CUT CROSS
103	947.40	697314.3580	1497088.8050	CUT CROSS

ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1 1/2 IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.

ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.

THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

ESTIMATED AND CONTINGENT QUANTITIES

THESE PLANS INCLUDE ESTIMATED AND CONTINGENCY QUANTITIES THAT MAY OR MAY NOT BE USED. ANY UNUSED MATERIAL PURCHASED BY THE CONTRACTOR WILL NOT BE PURCHASED OR REIMBURSED BY THE OWNER. THE OWNER WILL NOT APPROVE ANY WORK DELAYS BECAUSE OF THE LACK OF MATERIALS AT THE SITE. ANY RESTOCKING FEES THAT MAY BE CHARGED WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT OF MEASURE	APPROX. QTY.
201	CLEARING AND GRUBBING	LUMP	1
202	CURB REMOVED, (SAWCUT TO DEPRESS FOR CONSTRUCTION ACCESS), AS PER PLAN	FT.	72
203	EXCAVATION	C.Y.	500
203	EMBANKMENT	C.Y.	950
204	SUBGRADE COMPACTION, AS PER PLAN	S.Y.	502
304	AGGREGATE BASE, AS PER PLAN	C.Y.	140
503	UNCLASSIFIED EXCAVATION	LUMP	1
509	EPOXY COATED STEEL REINFORCEMENT	LBS.	4675
511	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	C.Y.	10
511	CLASS QC1 CONCRETE, FOOTING	C.Y.	30
512	SEALING OF CONCRETE SURFACE (EPOXY URETHANE)	S.Y.	65
512	TYPE 2 WATERPROOFING	S.Y.	186
516	1" PREFORMED EXPANSION JOINT FILLER	S.F.	24
518	POROUS BACKFILL WITH GEOTEXTILE FABRIC	C.Y.	11
601	ROCK CHANNEL PROTECTION, TYPE B, WITH GEOTEXTILE FABRIC	C.Y.	89
611	12" CONDUIT, TYPE C, 706.02	FT.	8
611	15" CONDUIT, TYPE C, 706.02	FT.	44
611	14'-0" x 4'-0" CONDUIT, TYPE A, 706.05, AS PER PLAN	FT.	56
611	CATCH BASIN, TYPE 2-2B, AS PER PLAN	EACH	1
614	MAINTAINING TRAFFIC	LUMP	1
623	CONSTRUCTION LAYOUT STAKING AND SURVEYING, AS PER PLAN	LUMP	1
659	SEEDING AND MULCHING, CLASS 1, AS PER PLAN	S.Y.	1900
832	EROSION CONTROL	EACH	3500

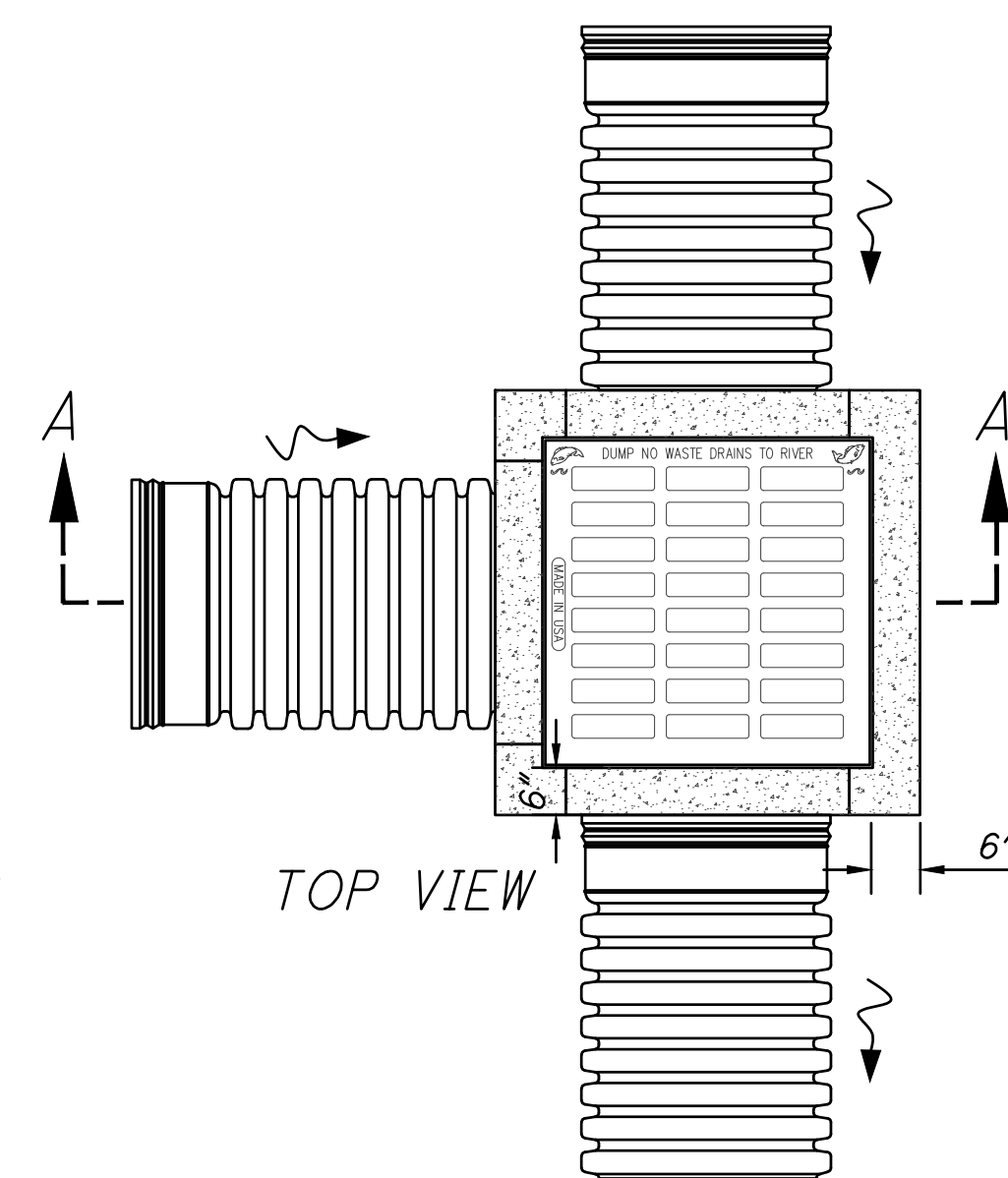
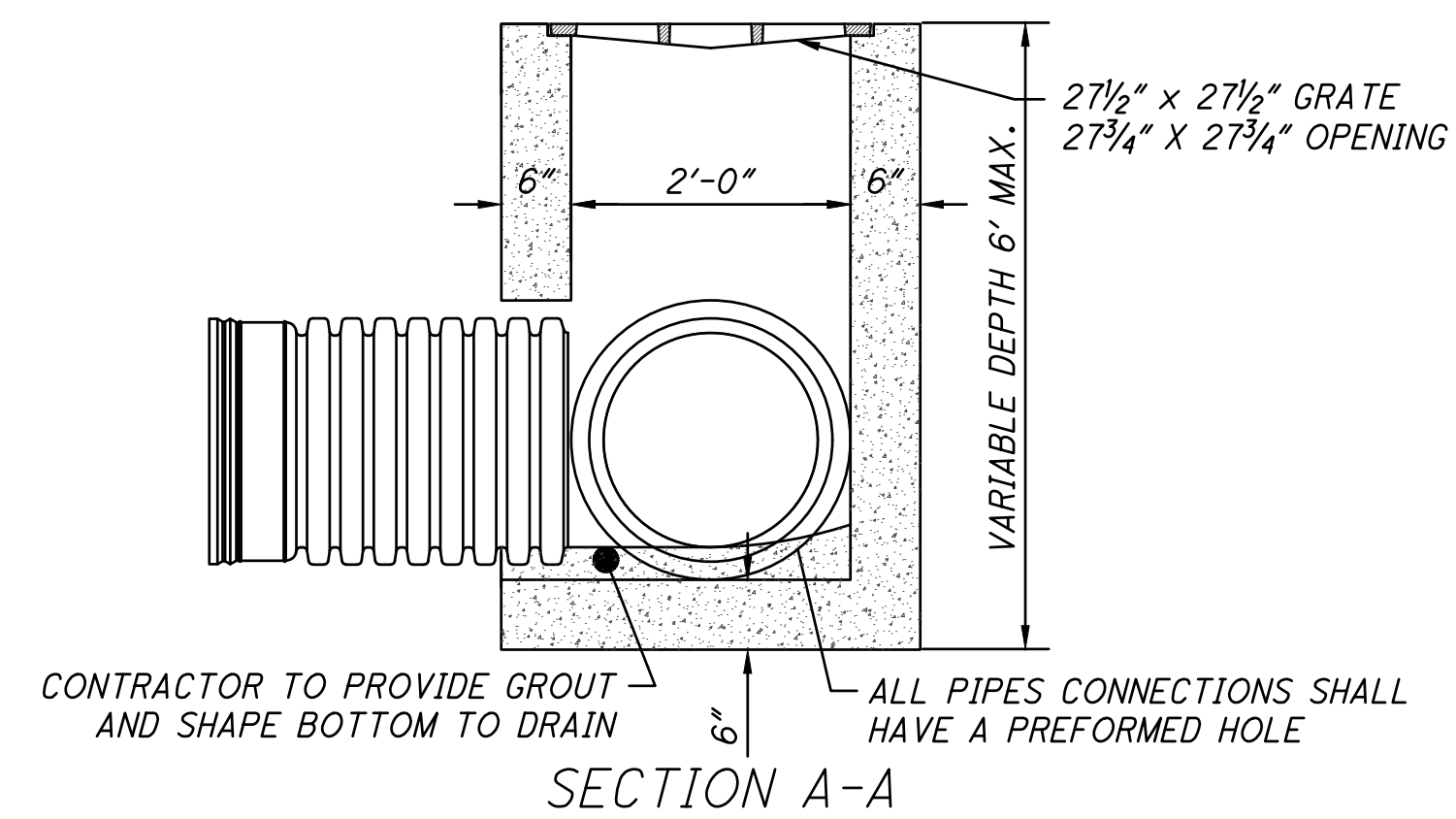


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A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45311
005A

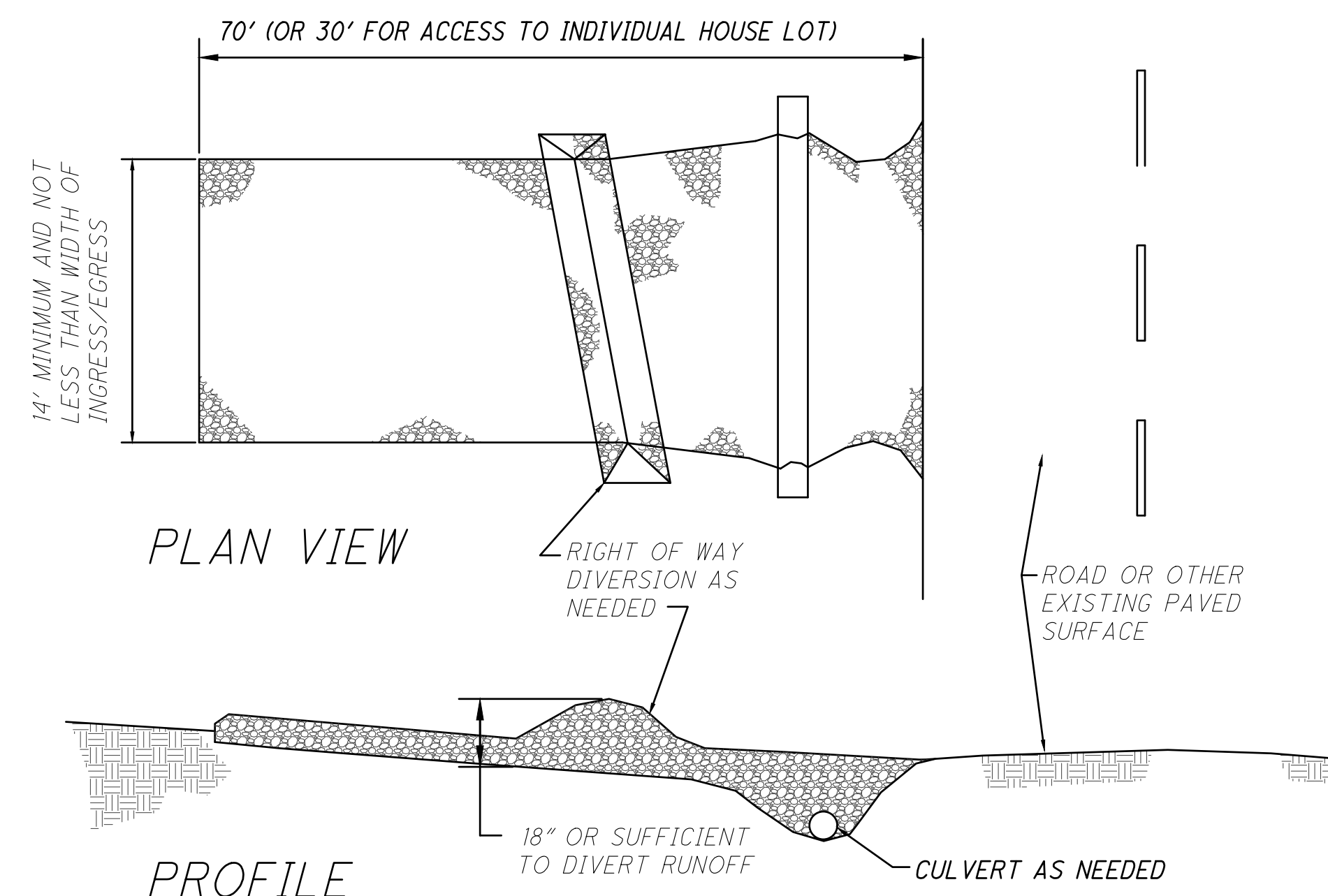
PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 01-13-2026
CHECKED BY: MLS



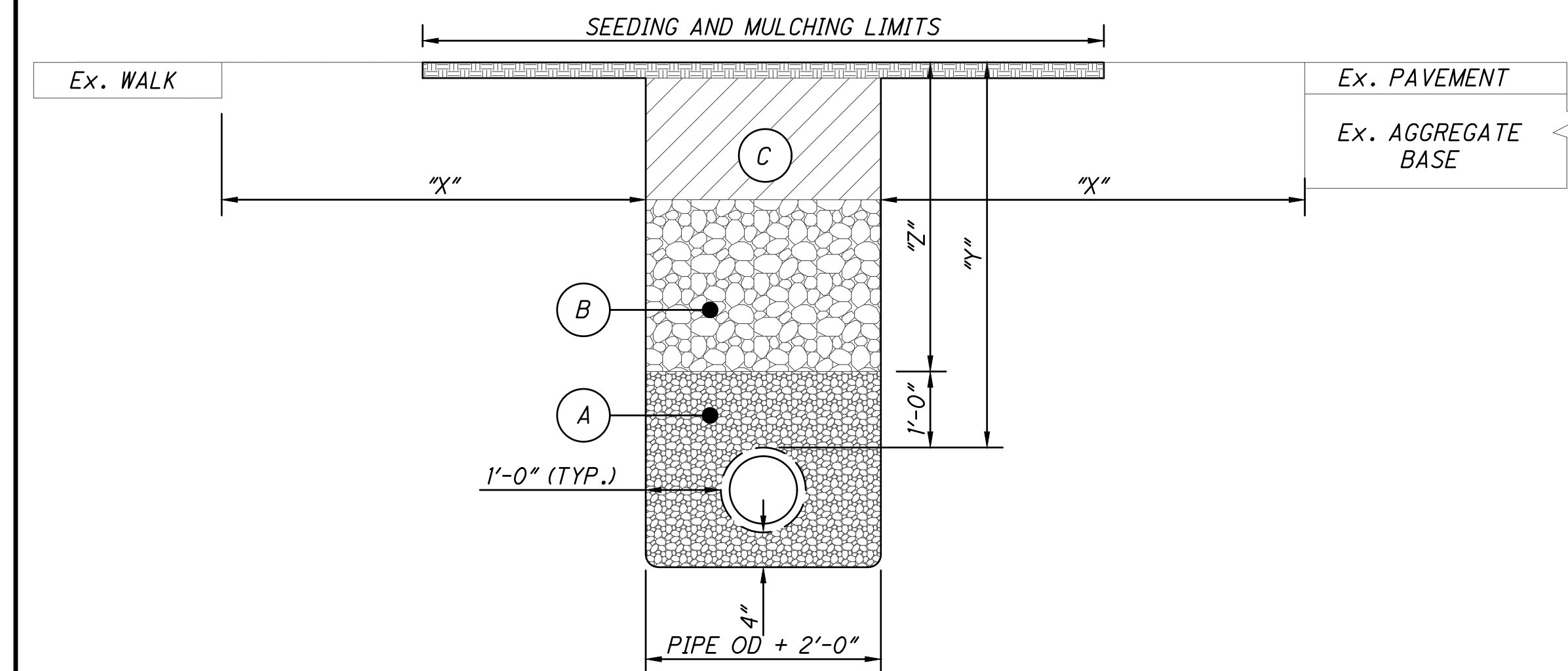
NOTES

- A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
- B. CATCH BASINS INSTALLED IN NON-PAVED AREAS SHALL BE PROVIDED WITH A RECESSED GRATE MANUFACTURED BY NEENAH CATALOG NO. R-4859-C (TYPE A) OR EAST JORDAN IRON WORKS 5110 (TYPE M3) OR EQUIVALENT.
- C. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
- D. GRATE ELEVATION TO BE PLACED 4" - 6" BELOW THE NORMAL DITCH LINE RETURNING TO NORMAL 10'-0" ON EACH SIDE OF STRUCTURE.
- E. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.
- F. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.

2-2B CATCH BASIN (NON-PAVED AREAS)

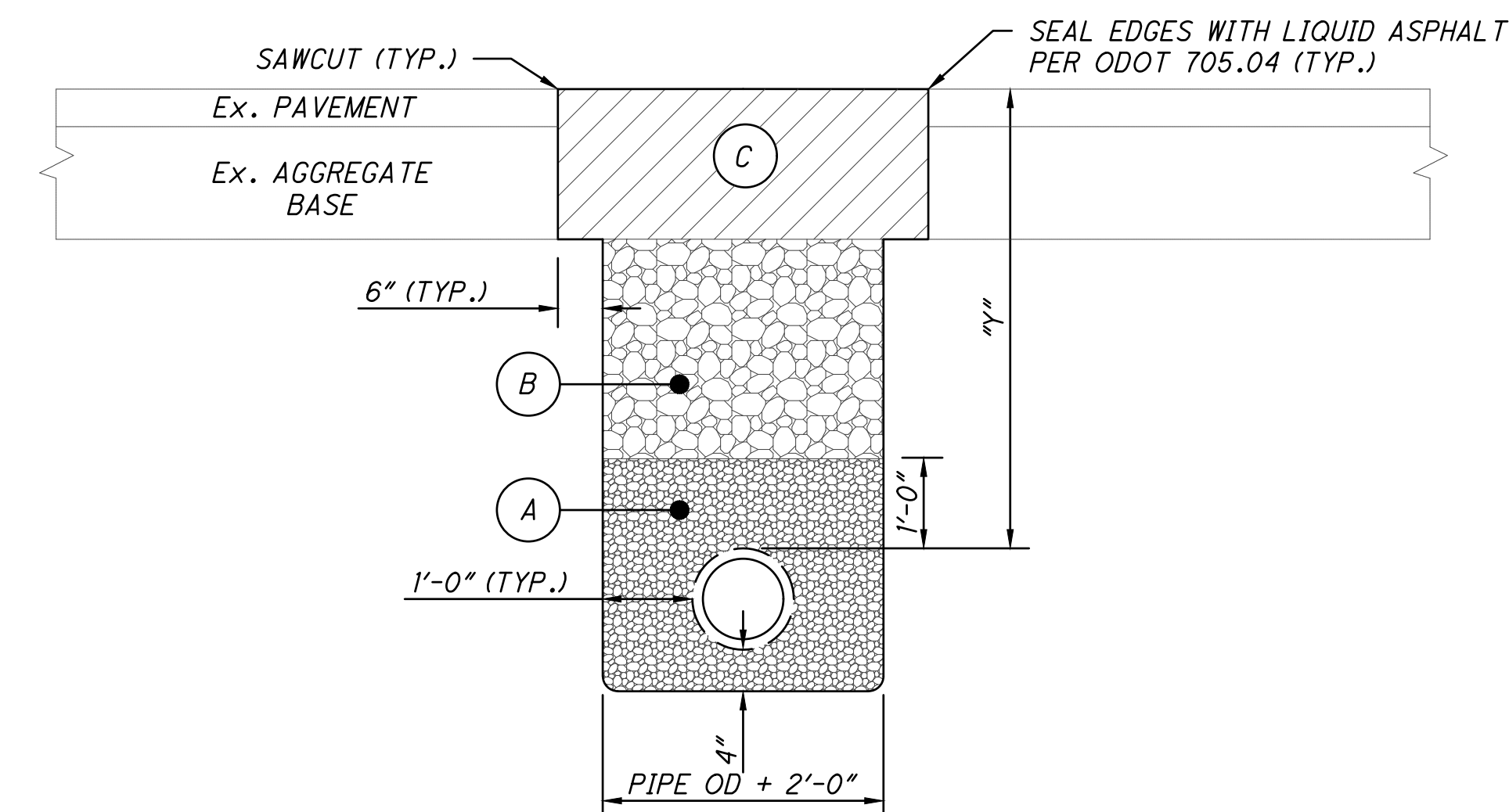


CONSTRUCTION ENTRANCE DETAIL



OUTSIDE PAVEMENT AREAS

- "X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.
- "Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.
- "Y"= DEPTH OF COVER FOR PROPOSED CONDUIT STORM SEWERS.....2'-0" MIN. (REFER TO PROFILE)



IN PAVEMENT AREAS

NOTES

- (A) BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 611 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE OWNER. THERE SHALL BE 4" MIN. BEDDING BELOW THE PIPE. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:
 - WATER MAIN, WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES - SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVEL.
 - STORM AND SANITARY SEWERS - SHALL BE CRUSHED LIMESTONE OR NATURAL CRUSHED STONE.
- (B) STRUCTURAL BACKFILL - DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY OWNER TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.

FOR "OUTSIDE PAVEMENT AREAS":
ALL TRENCHES WHERE "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACTED NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE OWNER. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

ALL TRENCHES WHERE "Z" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXIMUM LIFTS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME NATIVE BACKFILL CAN BE USED.

FOR "IN PAVEMENT AREAS":
ALL TRENCHES SHALL HAVE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE) BACKFILL PLACED FROM THE TOP OF THE BEDDING TO THE BOTTOM OF THE ROADWAY BASE.
- (C) ALL "OUTSIDE PAVEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEED PER ODOT 659. ALL "IN PAVEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAVEMENT COMPOSITION PROVIDED IN THE HATCH LEGEND. THE TRENCH DETAIL SHOWS THE PAVEMENT REPAIR LIMITS. ANY PAVEMENT REPAIR BEYOND THIS WILL BE AT THE COST OF THE CONTRACTOR.

TRENCH DETAIL

NTS

REVISIONS:



A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA, OHIO 45311
006A

PROJECT NO: 23014
 DRAWN BY: JMK
 DATE: 01-13-2026
 CHECKED BY: MLS

ODOT STANDARD CONSTRUCTION DRAWING AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARDS:

DESIGN DATA SHEET
 HWDD-1.....01/17/2025
 PLAN INSERT SHEET SHEET
 BCHW.....07/19/2024

DESIGN DATA:
 DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2024, AND THE ODOT BRIDGE DESIGN MANUAL, 2020 EDITION.

DESIGN SPECIFICATIONS:
 CONCRETE CLASS CCI - COMPRESSIVE STRENGTH 4000 PSI
 (FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617 GRADE 60
 MINIMUM YIELD STRENGTH 60,000 PSI
 (ALL REBAR SHALL BE EPOXY COATED STEEL
 REINFORCING - ECSR)

DESIGN LOADING
 VEHICULAR LIVE LOAD: HL-93

PRECAST CONCRETE:
 AT THE OPTION OF THE CONTRACTOR, AND WITH THE APPROVAL OF THE OWNER AND ENGINEER, PRECAST WINGWALLS MAY BE USED IN ACCORDANCE WITH ODOT BDM 307 (RETAINING WALLS) AND ODOT SUPPLEMENTAL SPECIFICATION SS851.

POROUS BACKFILL WITH FILTER FABRIC:
 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

FORESLOPE WALL ANCHOR DOWELS:
 ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20.

THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES.

PREFORMED EXPANSION JOINT FILLER:
 PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS.

SEALING OF FORESLOPE / WINGWALLS:
 ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER, THE COLOR OF WHICH SHALL BE SIMILAR TO THE BOX CULVERT ITSELF. THE LIMITS SHALL BE AS SHOWN IN THE DETAIL IN THESE PLANS.

WATERPROOFING:
 TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL.

SINCE PAVEMENT WILL NOT BE USED DIRECTLY ON TOP OF THE CULVERT, TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL.

WORKMANSHIP AND FINISH:
 THE SECTIONS MAY BE REPAIRED, IF NECESSARY, BECAUSE OF OCCASIONAL IMPERFECTIONS OR FRACTURES. REPAIRS SHALL BE MADE IN ACCORDANCE WITH ITEM 519. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIRS. THE REPAIRS WILL BE ACCEPTABLE IF IN THE OPINION OF THE OWNER THE REPAIRS ARE SOUND, PROPERLY FINISHED AND CURED, AND THE REPAIRED SECTION CONFORMS TO THE REQUIREMENTS OF THESE NOTES.

CHAMFER:
 ALL EXPOSED CAST-IN-PLACE CONCRETE SHALL HAVE 3/4" CHAMFER.

JOINTS:
 JOINTS SHALL BE MORTARED ON THE ENTIRE EXTERIOR TOP AND DOWN THE FULL LENGTH OF EACH EXTERIOR SIDE TO PROVIDE A SMOOTH SURFACE FOR WATERPROOFING. THE MORTAR SHALL BE A NON-SHRINKING, NON-METALLIC PER ODOT 705.20.

BEFORE MORTARING THE JOINT, THE CONTRACTOR SHALL BE THOROUGHLY CLEAN OF ALL DIRT, DUST AND OTHER FOREIGN MATTER. THE SURFACES SHALL BE WETTED, BUT NO FREE WATER SHALL BE ALLOWED TO REMAIN IN THE JOINT.

JOINTS SHALL ALSO BE MORTARED ON THE ENTIRE INTERIOR BOTTOM AND HALFWAY UP (LOWER HALF) OF THE INTERIOR WALLS TO PROVIDE A SMOOTH SURFACE FOR WATER FLOW. THE REMAINDER OF THE INTERIOR WALL JOINTS (UPPER HALF) ALONG WITH THE INTERIOR TOP (CEILING) SHALL BE FILLED WITH AN EXPANSIVE FOAM MATERIAL (AEROSOL CAN VARIETY) AVAILABLE AT LOCAL SUPPLY STORES.

ALL RECESSED AREAS ON THE EXTERIOR TOP OF THE PRECAST BOX CULVERT SECTIONS, WHERE THE LIFTING INSERTS ARE LOCATED, SHALL BE MORTARED WITH THE SAME MORTAR USED FOR THE JOINTS. ALL EXTERIOR FINISHED SURFACES SHOULD BE SMOOTH FOR WATERPROOFING.

INSPECTION:
 THE QUALITY OF MATERIALS, THE PROCESS OF MANUFACTURE AND THE FINISHED SECTIONS SHALL BE SUBJECT TO INSPECTION BY THE OWNER. SECTIONS MAY BE SUBJECT TO REJECTION FOR FAILURE TO CONFORM TO ANY OF THE REQUIREMENTS IN THESE NOTES. INDIVIDUAL SECTIONS MAY BE REJECTED BECAUSE OF ANY OF THE FOLLOWING:

- FRACTURES OR CRACKS PASSING THROUGH THE WALL, EXCEPT FOR A SINGLE END CRACK THAT DOES NOT EXCEED ONE HALF THE THICKNESS OF THE WALL.
- DEFECTS THAT INDICATE PROPORTIONING, MIXING AND MOLDING NOT IN COMPLIANCE WITH THESE NOTES.
- HONEYCOMBED OPEN TEXTURE.
- EXPOSED REINFORCING STEEL.
- DAMAGED ENDS OR LEGS WHERE SUCH DAMAGE WOULD PREVENT MAKING A SATISFACTORY JOINT.

INSTALLED SECTIONS THAT HAVE CRACKS EXCEEDING 0.01 INCH IN WIDTH SHALL BE APPRAISED BY THE ENGINEER CONSIDERING THE STRUCTURAL INTEGRITY OR SERVICE LIFE OF THE STRUCTURE. SUCH CRACKS ARE NOT ACCEPTABLE IF THEY ARE EXCESSIVE IN NUMBER OR IF THEY RESULT FROM CARELESS HANDLING OR INSTALLATION. ALL CRACKS OVER 0.10 INCH WIDTH SHALL BE SEALED USING A METHOD APPROVED BY THE ENGINEER.

THE ENGINEER MAY REJECT ANY SECTION IF, IN THE ENGINEER'S OPINION, THE STRUCTURAL INTEGRITY OR SERVICE LIFE OF THE SECTION HAS BEEN REDUCED DUE TO MATERIALS, MANUFACTURE OR INSTALLATION.

MISCELLANEOUS:
 THE PROPOSED PRECAST BOX CULVERT SHALL BE MANUFACTURED SO THAT THERE IS ONE BLUNT END SECTION AT EACH END AFTER THE CULVERTS HAVE BEEN SET IN PLACE. THIS WILL ALLOW FOR EASIER ATTACHMENT OF THE ANCHOR BOLTS AND WINGWALLS TO THE PRECAST BOX CULVERT END SECTIONS.

BEDDING:
 PROPOSED CULVERT SHALL REST ON A MINIMUM OF 6" OF BEDDING. BEDDING SHALL BE ODOT 703.11 TYPE 3, (#57) AGGREGATE.

STREAM CHANNEL EXCAVATION:
 THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR HEADWALL EXCAVATION, CHANNEL CLEAN OUT OR REALIGNMENT, EXCAVATION OF ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

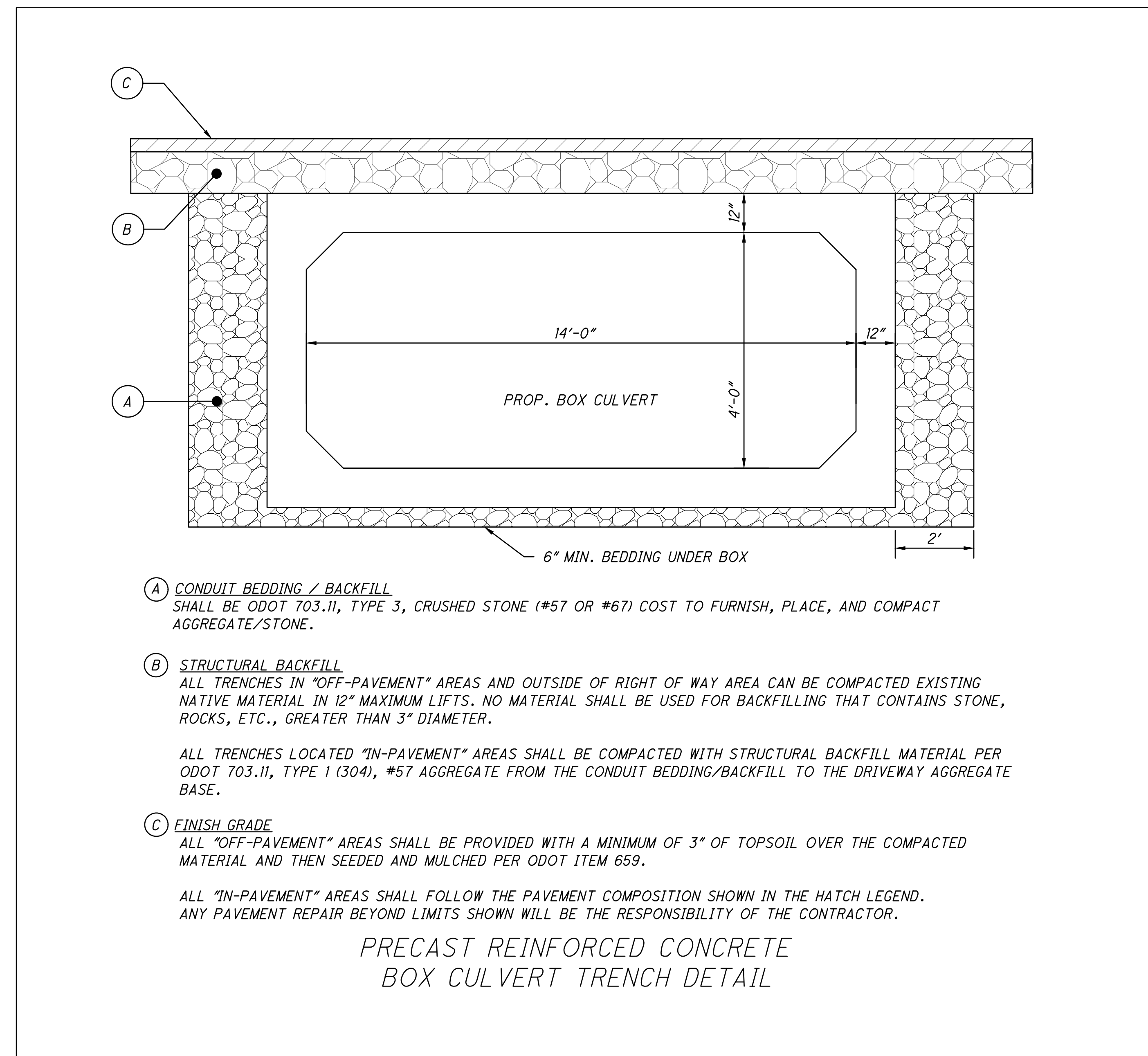
IN STREAM WORK:
 IN STREAM WORK WILL BE LIMITED WHERE PRACTICABLE AND IF NECESSARY, ONLY CLEAN NON-ERODIBLE MATERIAL WILL BE USED FOR FORDS OR COFFERDAMS. ANY TEMPORARILY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM BE RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED.

CONDUIT BASIS OF PAYMENT:
 THE ACCEPTED QUANTITY OF PRECAST REINFORCED CONCRETE BOX CULVERT SECTIONS SHALL BE OF THE SIZE AND TYPE SPECIFIED.

ITEM	UNIT	DESCRIPTION
611	FEET	14' x 4' CONDUIT, TYPE "A" 706.05, ASTM C-1577

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT REINFORCING STEEL DESIGNATED IN THE PLAN, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCE AND BAR SPACING. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK ACCORDING TO 709.00.



PRECAST REINFORCED CONCRETE BOX CULVERT TRENCH DETAIL

Choice One Engineering
 SIDNEY, OHIO 937.497.0200
 LOVELAND, OHIO 513.239.8554
 WWW.CHOICEONEENGINEERING.COM

WDC GROUP

REVISIONS:

STATE OF OHIO
 MICHAEL LEWIS
 REGISTERED PROFESSIONAL ENGINEER
 E-81748

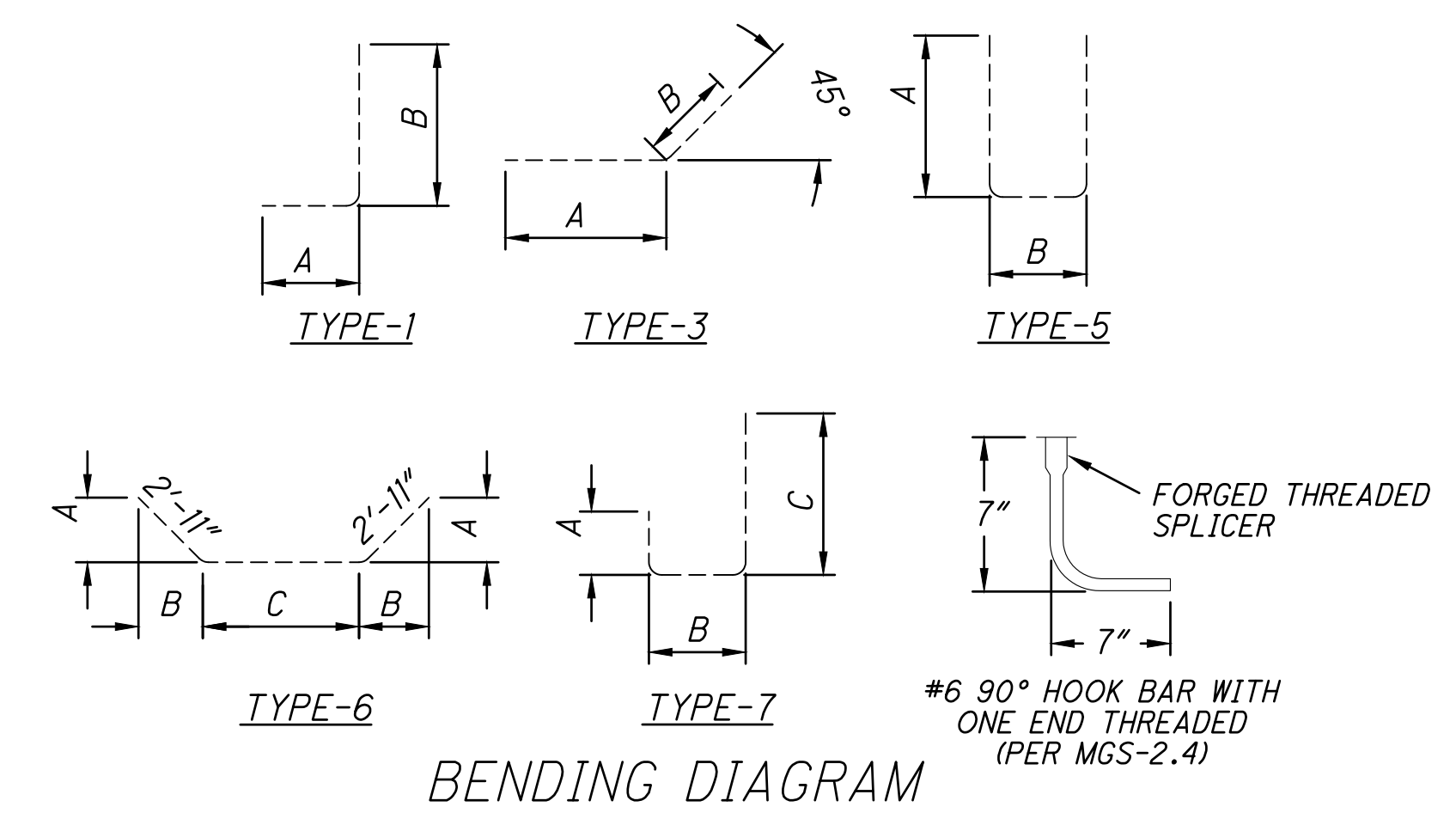
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 small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
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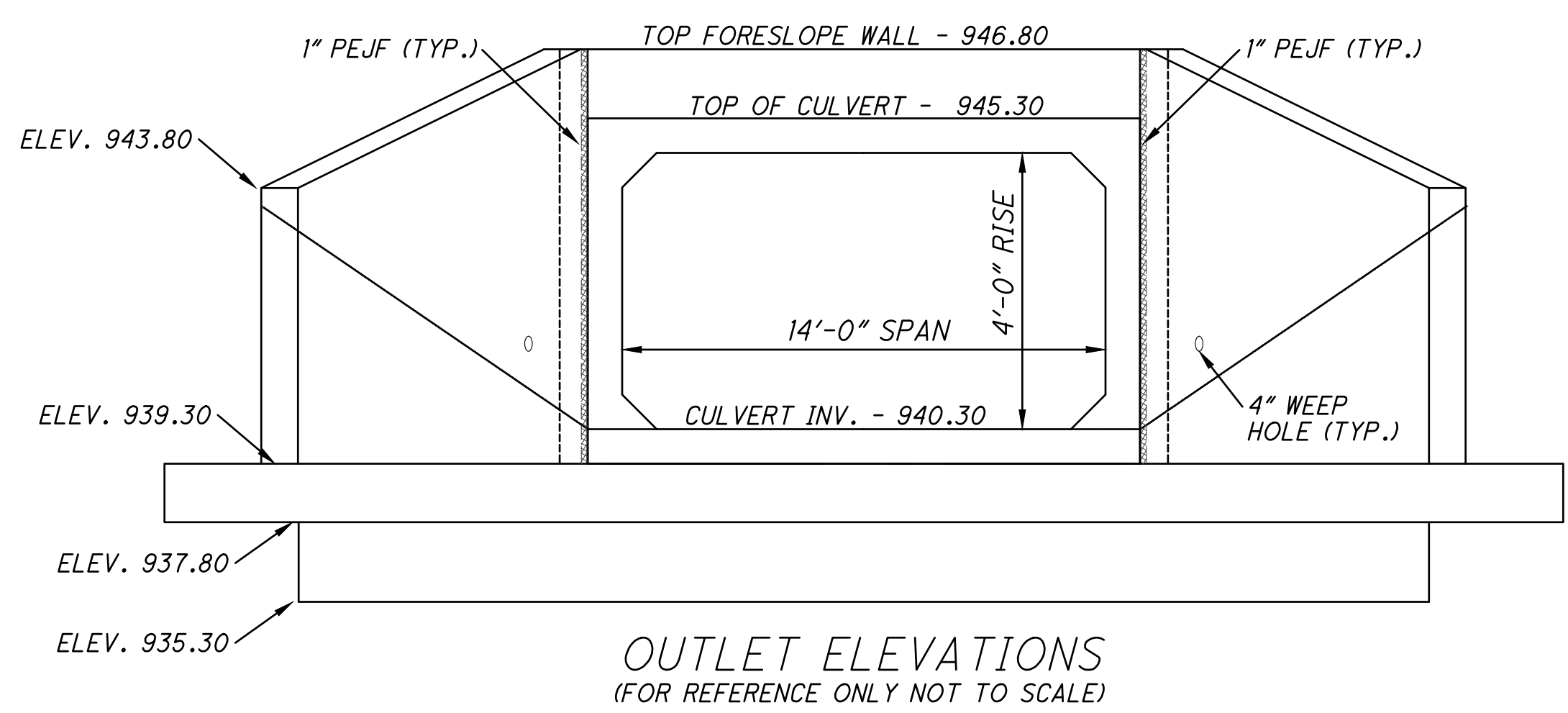
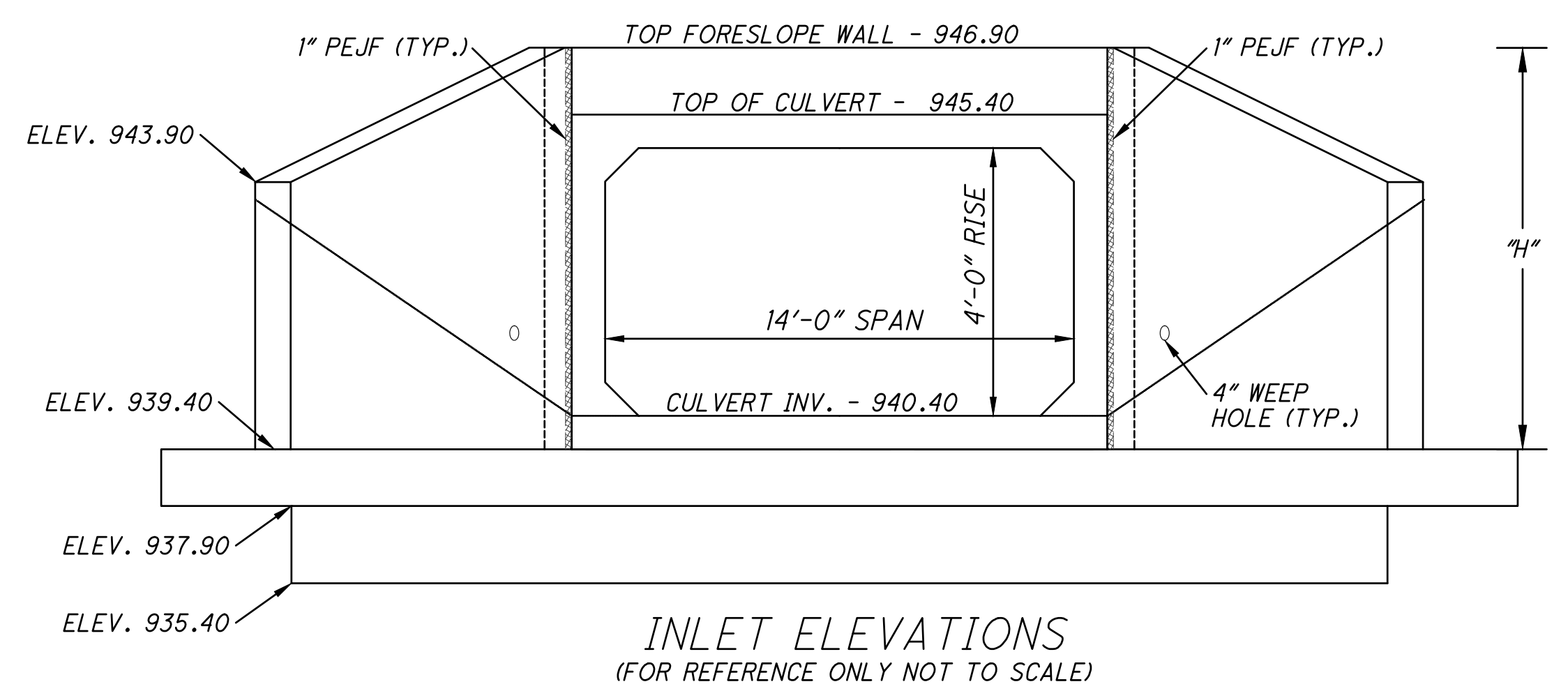
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 5 OF 8

PUBLIC WORKS FACILITY DRIVE REINFORCING STEEL LIST												
COMPONENT	MARK #	INLET (QTY)	OUTLET (QTY)	LENGTHS	WEIGHT (LBS.)	BAR SIZE	BAR TYPE	"A"	DIMENSIONS "B"	"C"	SPA. (IN.)	
FOOTING & CUTOFF WALL (EPOXY COATED STEEL REINFORCEMENT - ECSR)												
9" SER. 4.5" SER. 9" SER. 4.5" SER.	F501	12	12	4'-6"	113	5	S				N/A	
	F502	8	8	3'-9"	63	5	S				N/A	
	F503	15	15	3'-0"	94	5	1	1'-0"	2'-0"		12	
	F504	2	2	15'-6"	65	5	S				N/A	
	F601	12	12	20'-10" to 24'-7"	817	6	6	2'-1"	2'-1"	15'-0" to 18'-9"	11	
	F602	24	24	7'-9" to 9'-7.5"	624	6	S				11	
	F603	2	2	20'-10" to 21'-7"	128	6	6	2'-1"	2'-1"	15'-0" to 15'-9"	12	
	F604	4	4	7'-9" to 8'-1.5"	96	6	S				12	
	V501	31	31	4'-6"	291	5	S				9	
	Z501	35	35	8'-0"	585	5	5	3'-6"	1'-0"		9	
W501	31	31	4'-6"	291	5	S				9		
WINGWALL AND FORESLOPE WALL (EPOXY COATED STEEL REINFORCEMENT - ECSR)												
4.5" SER.	WW501	18	18	4'-0" to 7'-0"	207	5	S				12	
	WW502	20	20	8'-0"	334	5	S				12	
	3'-0" SER.	WW503	8	8	2'-6" to 5'-6"	67	5	S				12
		WW504	14	14	2'-7"	76	5	3	2'-5"	0'-2"		10
		WW505	4	4	8'-6"	71	5	S				12
4.5" SER.	X501	18	18	4'-0" TO 7'-0"	207	5	S				12	
	X502	2	2	7'-0"	29	5	S				N/A	
	Y501	20	20	5'-6"	230	5	1	2'-0"	3'-6"		12	
	FS501	4	4	15'-6"	130	5	S				6	
	FS502	13	13	2'-10"	83	5	7	1'-0"	0'-6"	1'-4"	15	
	FS503	13	13	2'-6"	74	5	5	1'-0"	0'-6"		15	
TOTAL:				4675								



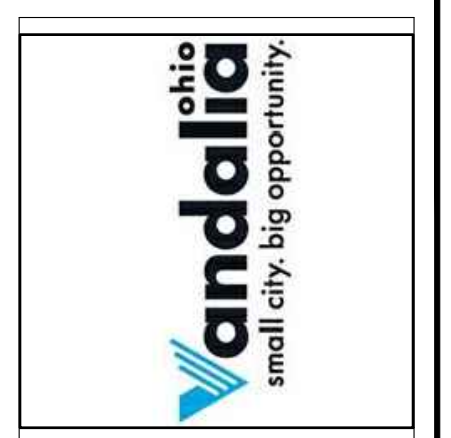
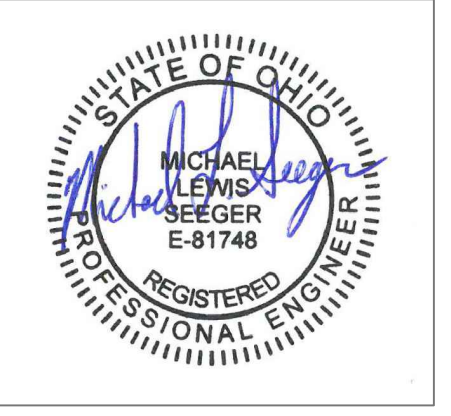
HYDRAULIC DATA	
CULVERT	- PUBLIC WORKS FACILITY DRIVE
EXISTING STRUCTURE	- NONE, OPEN DITCH
PROP. STRUCTURE	- 14'x4' PRECAST BOX CULVERT
DRAINAGE AREA	= 397± Acres
Q ₁₀₀	= 780 cfs

- LEGEND**
- CJ CONSTRUCTION JOINT
 - CLR. CLEARANCE
 - DIA. DIAMETER
 - E.F. EACH FACE
 - F.F. FAR FACE
 - INC. INCREMENT
 - MAX. MAXIMUM
 - MIN. MINIMUM
 - N.F. NEAR FACE
 - PEJF PREFORMED EXPANSION JOINT FILLER
 - SER. SERIES
 - S. STRAIGHT
 - TYP. TYPICAL



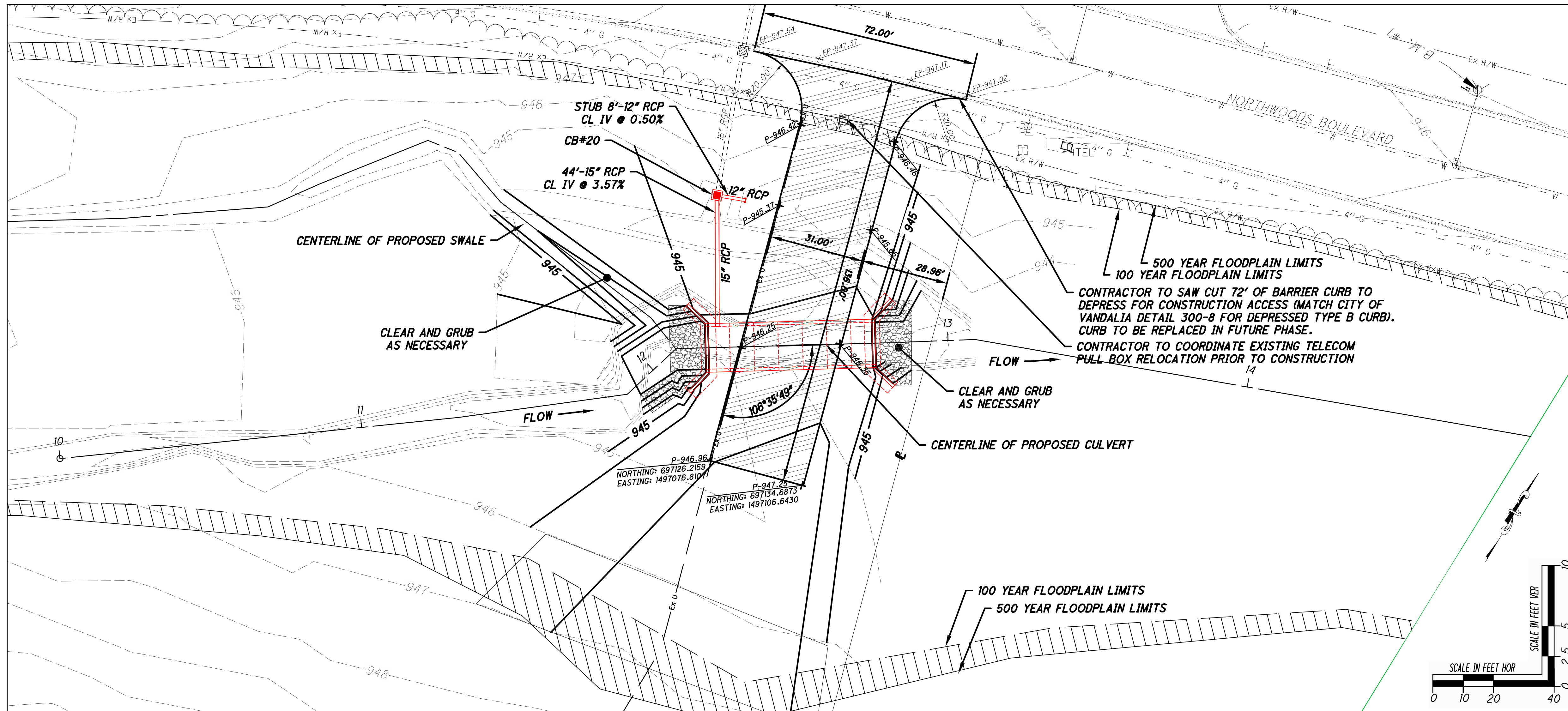
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REVISIONS:



A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
 VANDALIA, OHIO 45311
 002A

PROJECT NO.: 23014
 DRAWN BY: JMK
 DATE: 01-13-2026
 CHECKED BY: MLS



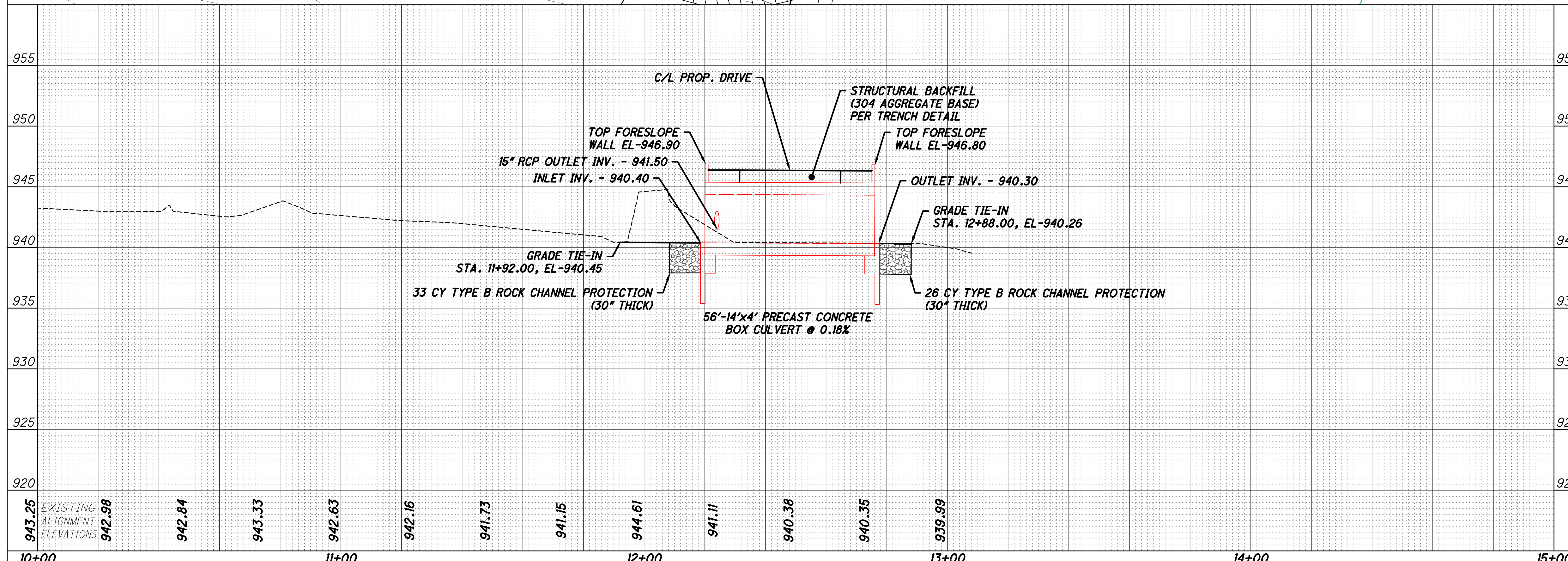
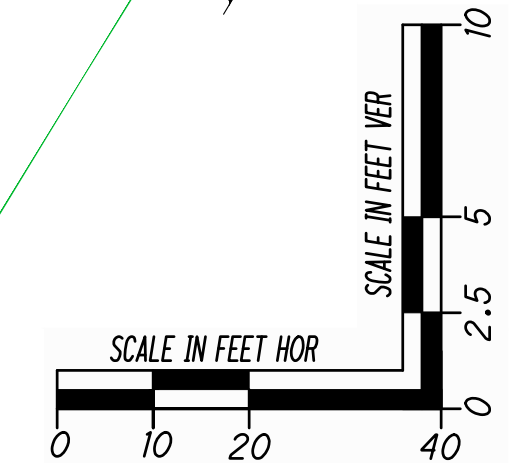
BENCHMARK #1 ELEV. 948.01
 FIRE HYDRANT AT THE END OF
 EXISTING NORTHWOOD BLVD.
 BOLT TOP FLANGE TIP OF ARROW

LEGEND
 EP = EXISTING PAVEMENT ELEVATION
 P = PROPOSED PAVEMENT ELEVATION

PROPOSED STORM STRUCTURES
 #20 TYPE 2-2B CB
 TOP 946.22
 15" SE INV. 943.08
 12" E INV. 943.08
 15" N INV. 943.83

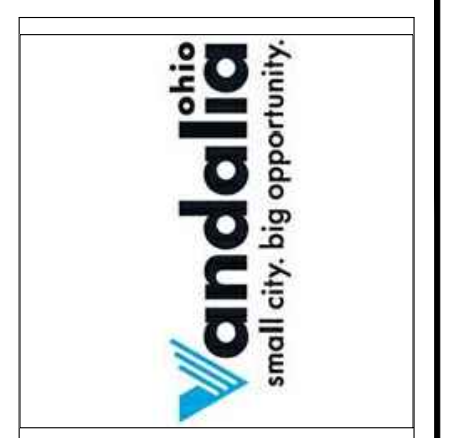
GRAVEL PAVEMENT
 ITEM 304 - 10" AGGREGATE BASE,
 AS PER PLAN
 (2 EQUAL LIFTS) ON
 ITEM 204 - SUBGRADE COMPACTION,
 AS PER PLAN

ROCK CHANNEL PROTECTION
 ITEM 601 - TYPE B ROCK CHANNEL
 PROTECTION (30" THICK)



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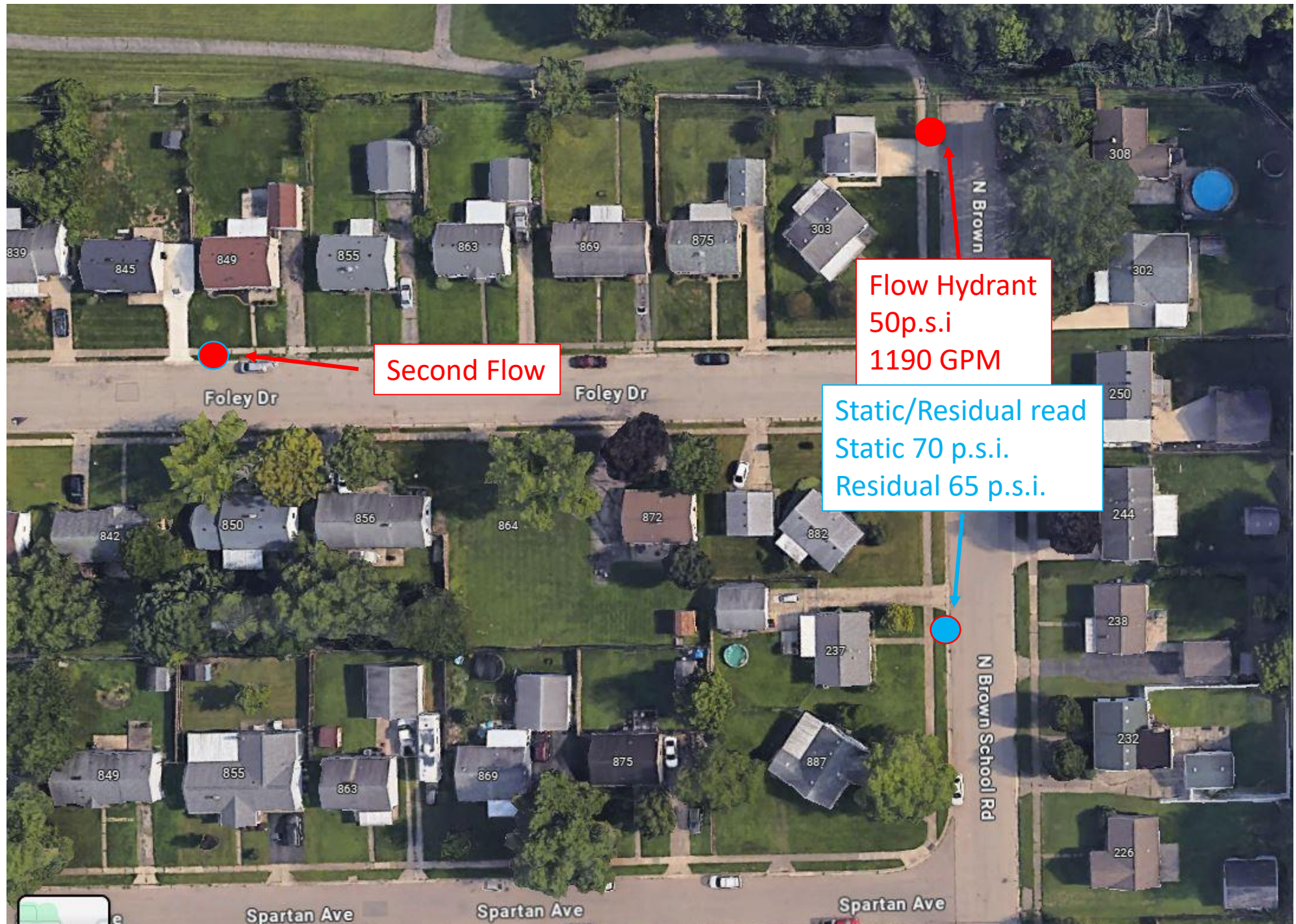
REVISIONS:



A NEW
 PUBLIC WORKS FACILITY
 FOR
 THE CITY OF VANDALIA
 VANDALIA, OHIO 45311
 PPAI

PROJECT NO.: 23014
 DRAWN BY: JMK
 DATE: 01-13-2026
 CHECKED BY: MLS

FLOW TEST INFORMATION

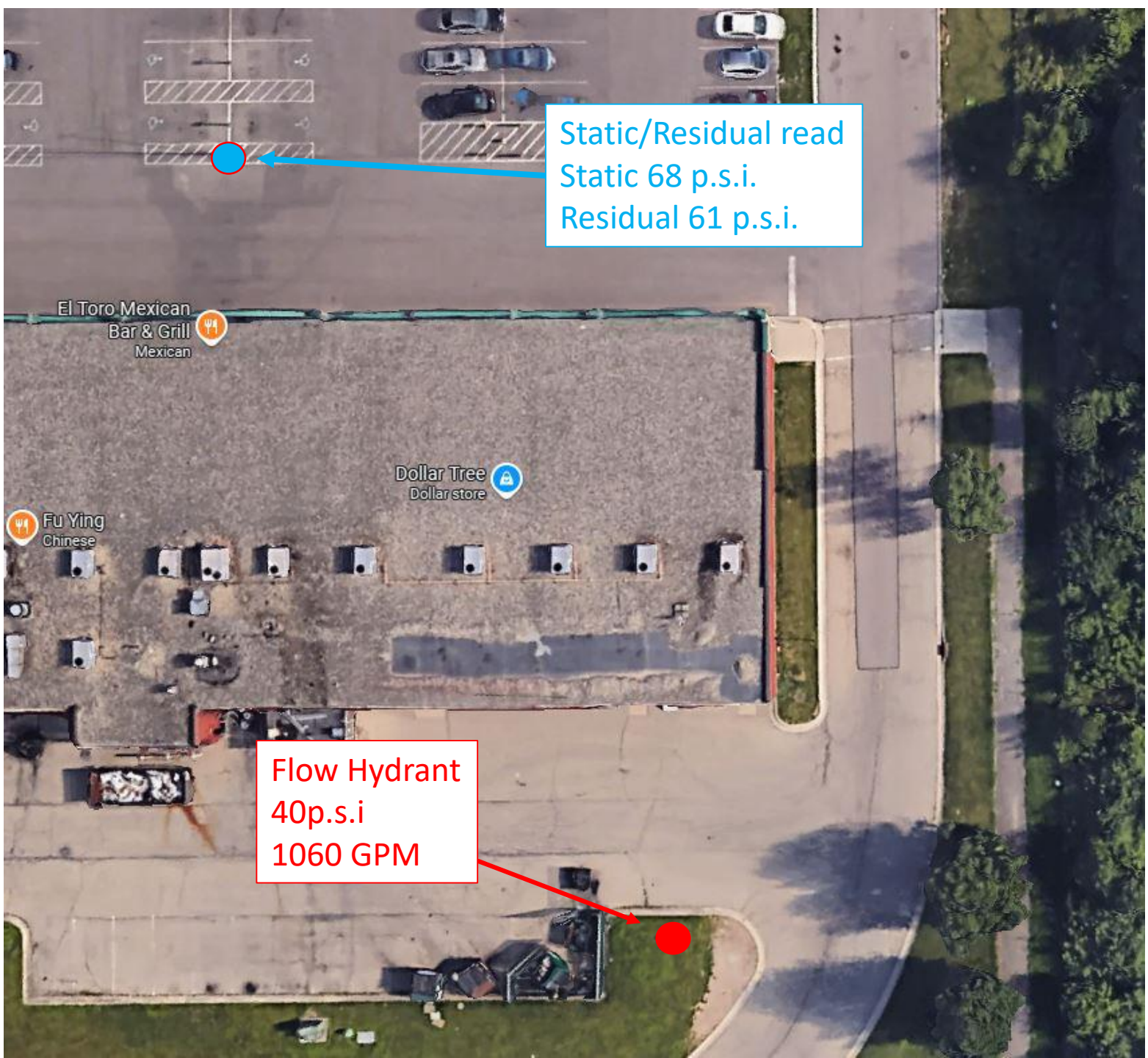


Second Flow

Flow Hydrant
50p.s.i
1190 GPM

Static/Residual read
Static 70 p.s.i.
Residual 65 p.s.i.

FLOW TEST INFORMATION

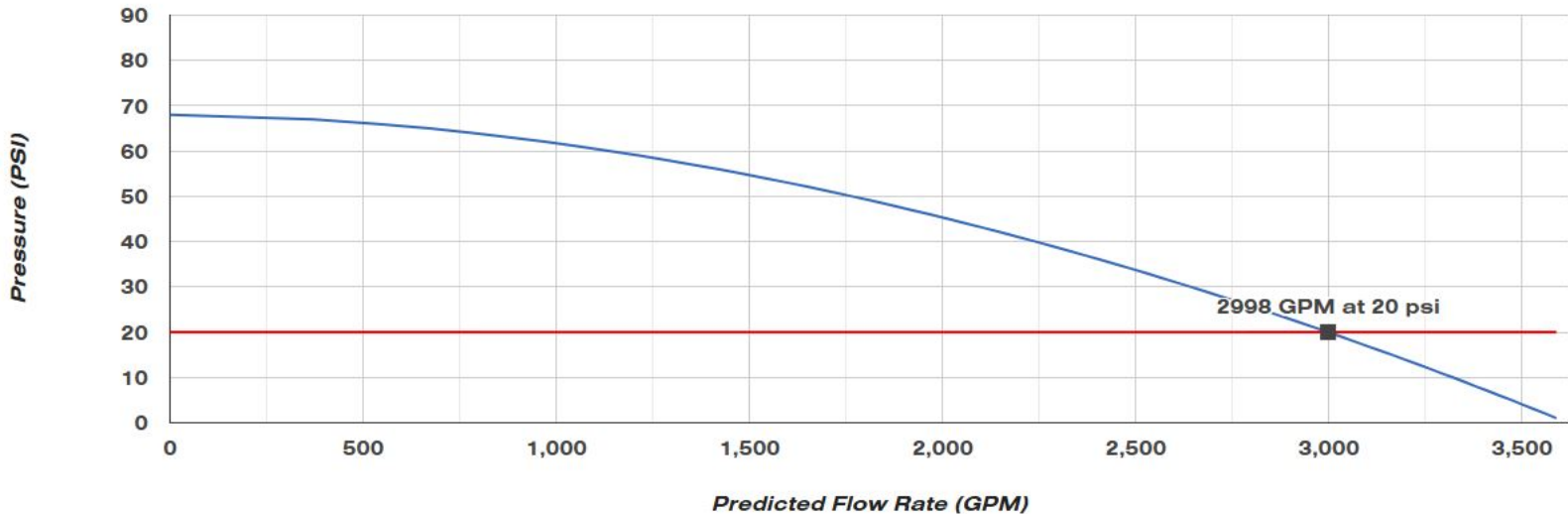


Static/Residual read
Static 68 p.s.i.
Residual 61 p.s.i.

Flow Hydrant
40p.s.i
1060 GPM

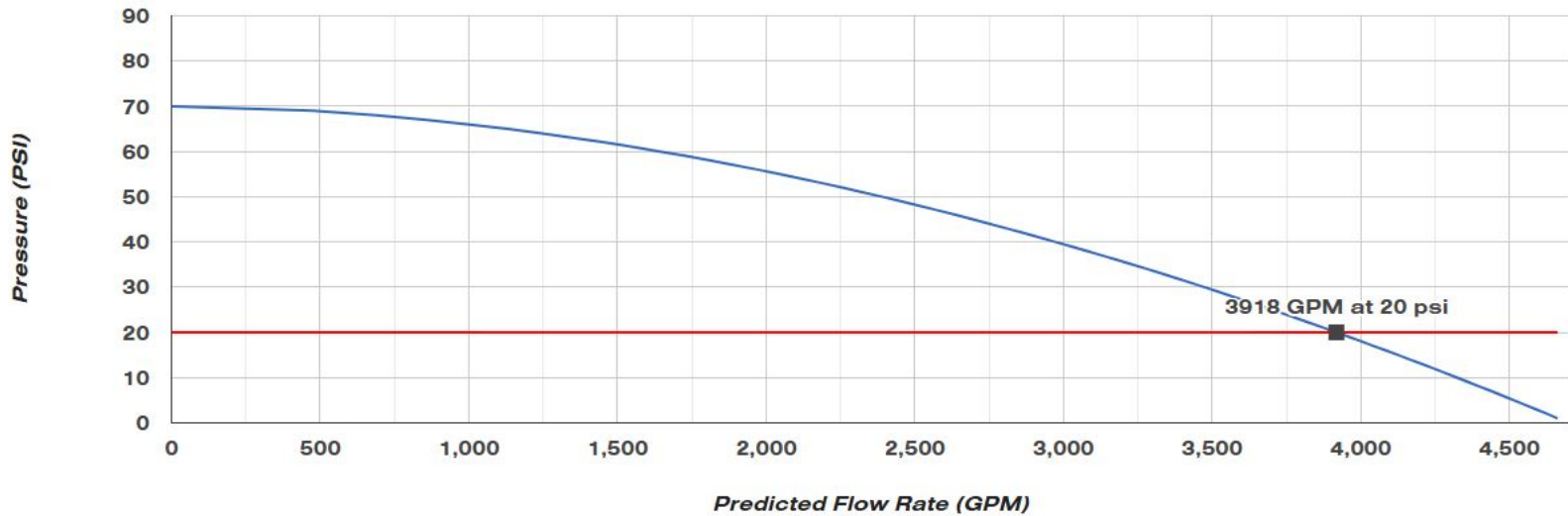
FLOWTEST INFORMATION

GPM at 20 psi: 2998
Class: AA
Marking color: Light Blue
% Pressure Drop: 10%



FLOWTEST INFORMATION

GPM at 20 psi: 3918
Class: AA
Marking color: Light Blue
% Pressure Drop: 7%



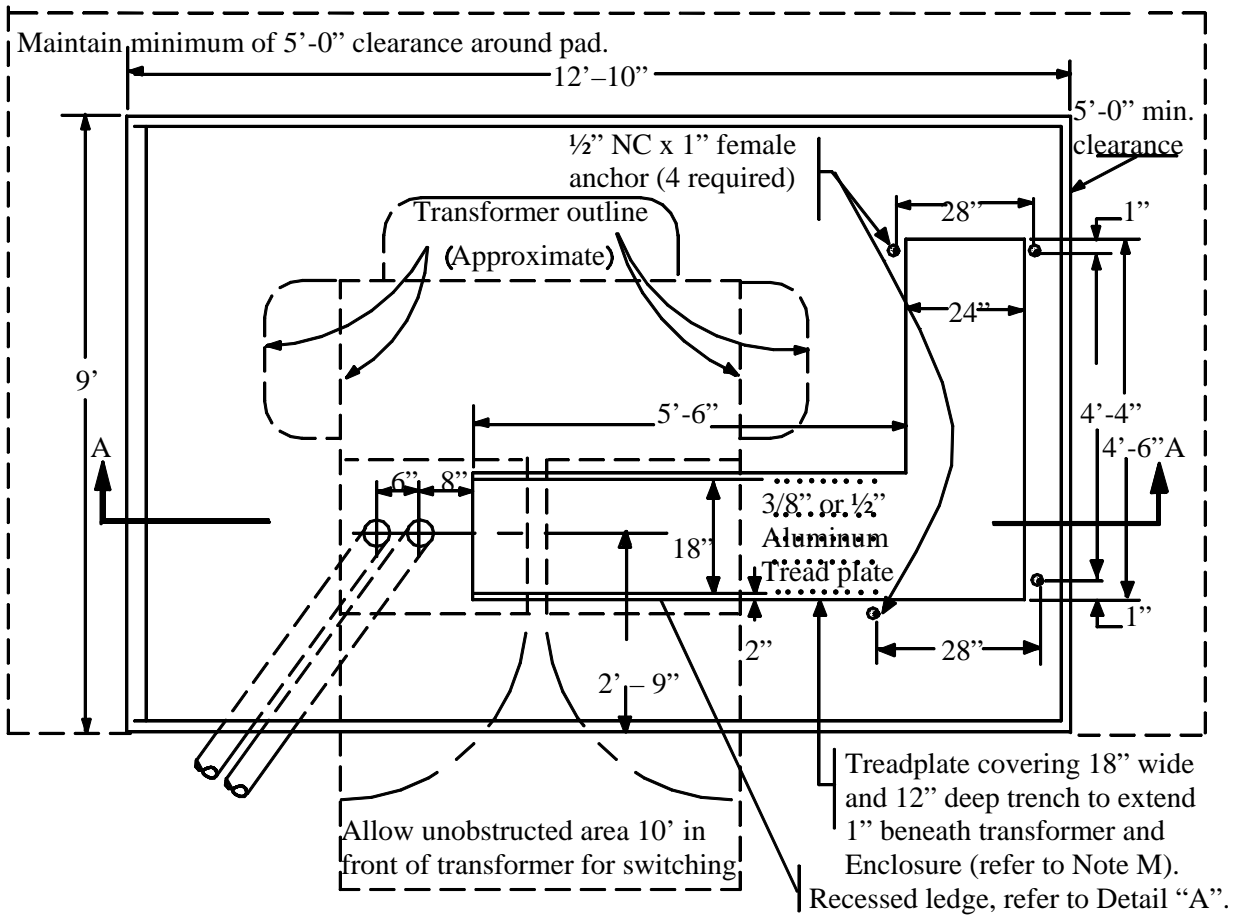


**Transformer Pad for URD Three Phase Services
With 30" x 5' x 5' Metering Enclosure**

Replaces: New

Refer to Section 22 for pad clearance guidelines.

Figure 32-155a: Site Plan



Notes:

- A. Pad location must be verified and approved by DP&L Engineering Services. A gravel pit may be required below the pad. Refer to Standard 22-190.
- B. A 5' minimum space must be maintained on each side and rear of pad.

Figure 32-155b: Section "A - A"

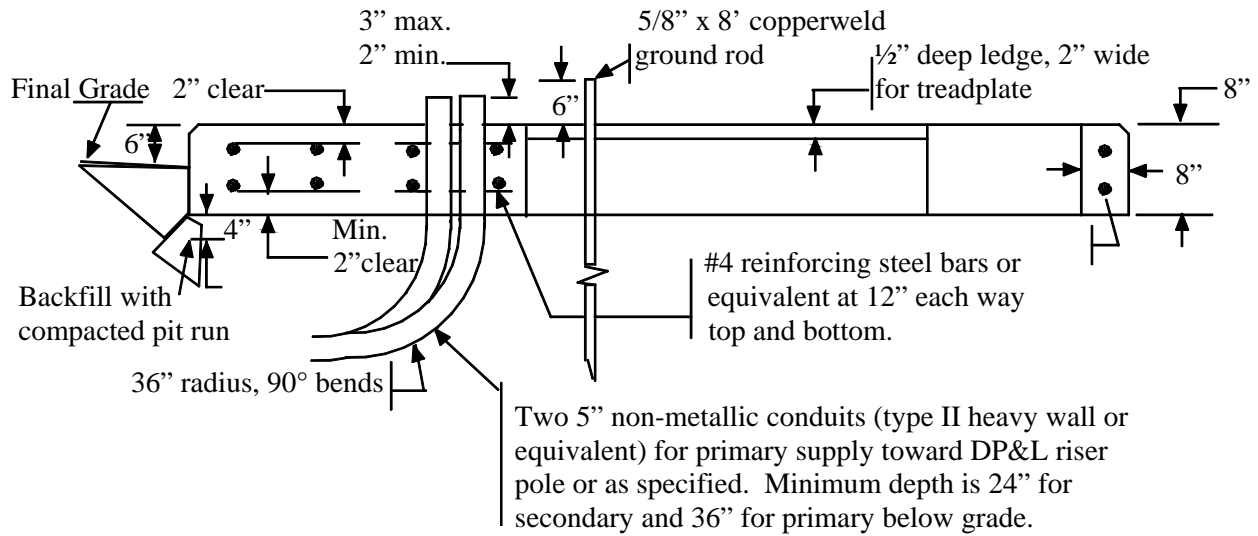
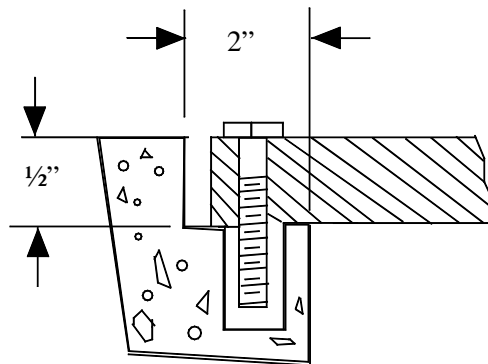


Figure 32-155c: Detail "A"



Notes:

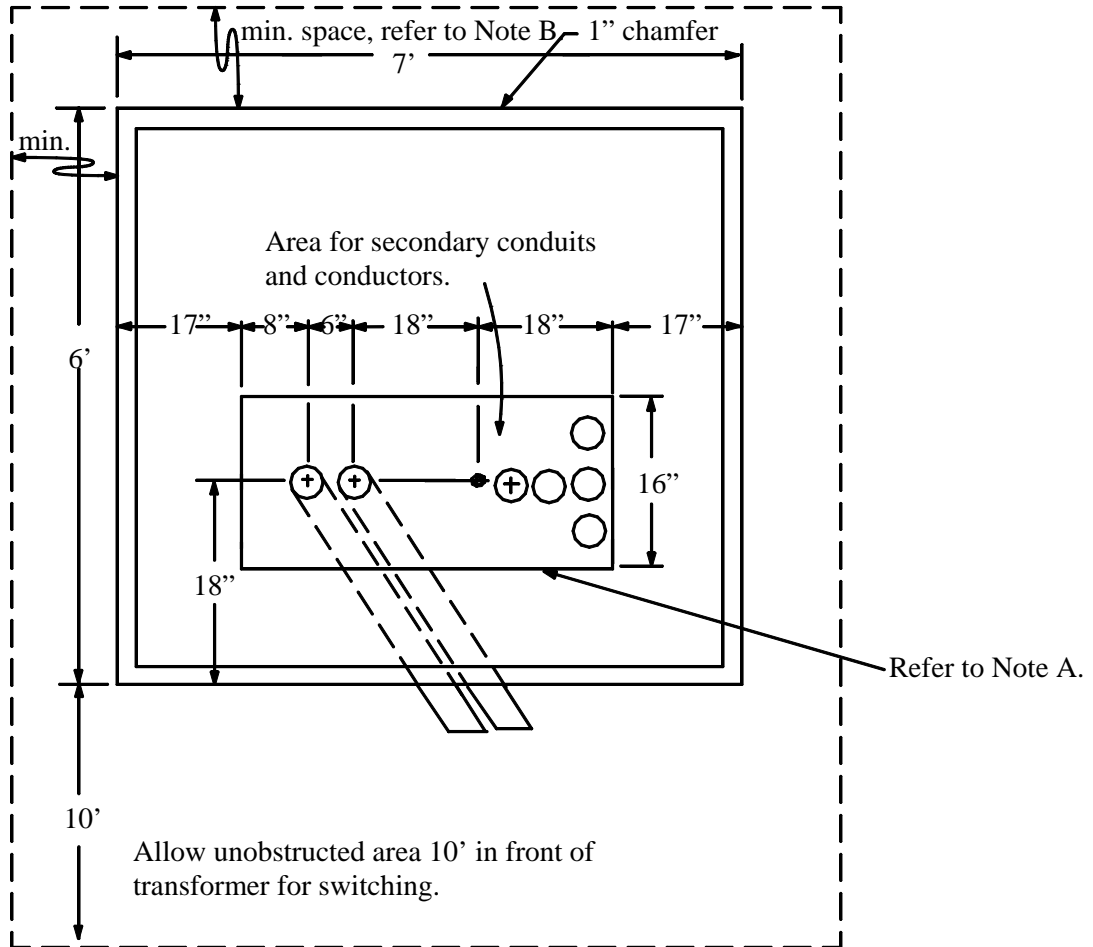
- C. Protection posts must be furnished and installed by customer. Location to be specified by DP&L Engineering.
- D. Contact the Meter Department for meter location and metering conduit requirements before building the transformer pad.
- E. The customer is to furnish and install 1 – 4" type II conduit under all concrete pavement areas where required for DP&L primary supply.
- F. Transformer must be accessible from the front of the pad. Area above and 10' in front of the installation must be free of any permanent obstructions.
- G. Protection posts (railroad rail set in concrete or 4" steel posts filled with and set in concrete) must be provided, 3 foot minimum height. Locations shall be specified by DP&L Engineering Services to ensure access to the transformer. Any exceptions to this rule must be approved by DP&L Engineering in writing.

- H. The pad must be located so as to be accessible for transformer transporting and lifting equipment (mobile crane and low boy trailer).
- I. Concrete used for the construction shall have 28 day strength of 3500 PSI.
- J. All work shall conform to specifications and standard practices of the American Concrete Institute.
- K. DP&L will furnish lugs, bolts, and miscellaneous material, as well as labor and make the primary and secondary connections at the terminals of the transformer(s) after the secondary conductors have been installed and connected to the customer's switch gear (by others).
- L. Where the transformer serves commercial customers, the customer shall provide and install all secondary facilities beyond the transformer secondary terminals. DP&L will furnish lugs and labor to connect to the transformer terminals. Wiring between the transformer terminals and the transition cabinet may be specified by DP&L. Refer to Standard 34-160 as a guideline for sizing of cables connected to secondaries of pad mount transformers.
- M. The treadplate covering will be furnished and installed by the customer before any secondary cables are energized from the pad mount transformer.



Refer to Section 22 for pad clearance guidelines.

Figure 32-110a: Site Plan

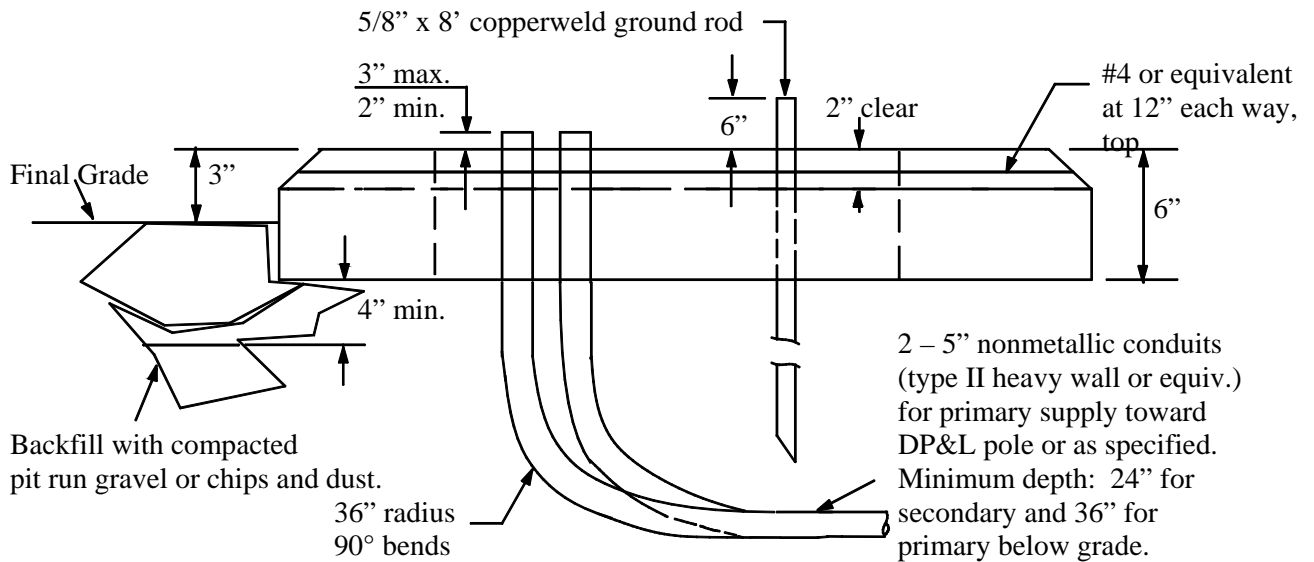


Notes:

- A. Pad location must be verified and approved by DP&L Engineering Services. A gravel pit may be required below the pad. Refer to Standard 22-190.
- B. A 10' minimum space must be maintained on the front of the pad. All exceptions require written approval by DP&L Engineering.
- C. Multiple conduits in secondary compartment should be installed parallel to the front of the pad and not exceed 3' deep.

- D. A 15' minimum space must be maintained between the pad and anything flammable. The area must be well vented and clear of other heat sources.
- E. When a single phase transformer occupies this pad, a lip ½" deep by 2" wide will be required around the opening. Refer to Note Q. When two single phase transformers are used, refer to Standard 32-070.

Figure 32-110b: Pad Cross Section



Notes:

- F. Protection posts must be furnished and installed by customer. Location to be specified by DP&L Engineering Services.
- G. Contact the Meter Department for meter location and metering conduit requirements before building the transformer pad.
- H. The customer is to furnish and install 1 –4" type II conduit under all concrete pavement areas where required for DP&L primary supply.
- I. Transformer must be accessible from the front of the pad. Area above and 10' in front of the installation must be free of any permanent obstructions.
- J. Protection posts (railroad rail set in concrete or 4" steel posts filled with and set in concrete) must be provided, 3 foot minimum height. Locations shall be specified by DP&L Engineering Services to ensure access to the transformer. Any exceptions to this rule must be approved by DP&L Engineering Services in writing.
- K. The pad must be located so as to be accessible for transformer transporting and lifting equipment (mobile crane and low boy trailer).
- L. Concrete used for the construction shall have 28 day strength of 3500 PSI.
- M. All work shall conform to specifications and standard practices of the American Concrete Institute.

- N. DP&L will furnish lugs, bolts, and miscellaneous material, as well as labor and make the primary and secondary connections at the terminals of the transformer(s) after the secondary conductors have been installed and connected to the customer's switch gear (by others).
- O. DP&L to furnish and customer to install a 5/8" x 8' copperweld ground rod.
- P. The secondary or service wiring shall extend at least 6'-6" above the top of the pad.
- Q. Metal treadplate will be required to cover any area of trench left open after transformers are set. The treadplate covering will be furnished and installed by the customer before any secondary cables are energized from the transformers.

Prevailing Wage Rate Skilled Crafts

Name of Union: Bricklayer Local 23 (Dayton)

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Bricklayer

Effective Date:
6/17/2026

Effective Date:
6/17/2026

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Bricklayer Stone Mason Refractory	\$35.85		\$11.00	\$8.09	\$0.72	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$56.16	\$74.09
Pointer/Caulker/Cleaner	\$35.85		\$11.00	\$8.09	\$0.72	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$56.16	\$74.09
Improver Apprentices 25 day probationary period then	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1st 6 months	\$23.30		\$11.00	\$0.00	\$0.57	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$35.37	\$47.02
2nd 6 months	\$26.89		\$11.00	\$0.00	\$0.57	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$38.96	\$52.41
3rd 6 months	\$30.47		\$11.00	\$6.49	\$0.57	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$49.03	\$64.27
4th 6 months	\$34.06		\$11.00	\$6.49	\$0.57	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$52.62	\$69.65
Apprentice	BHR	Percent										
1st 6 months	\$25.10	\$70.02	\$11.00	\$0.00	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$37.22	\$49.77
2nd 6 months	\$26.53	\$74.00	\$11.00	\$0.00	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$38.65	\$51.91
3rd 6 months	\$27.96	\$78.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$46.87	\$60.85
4th 6 months	\$29.40	\$82.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$48.31	\$63.01
5th 6 months	\$30.83	\$86.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$49.74	\$65.16
6th 6 months	\$32.27	\$90.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$51.18	\$67.31
7th 6 months	\$33.70	\$94.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$52.61	\$69.46
8th 6 months	\$35.13	\$98.00	\$11.00	\$6.79	\$0.62	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$54.04	\$71.61
Mason Trainee 1-90 Days	\$16.13	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$16.63	\$24.70
91-365 Days	\$16.13	\$45.00	\$11.00	\$0.00	\$0.00	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$27.63	\$35.70
2nd Year	\$17.93	\$50.00	\$11.00	\$0.00	\$0.00	\$0.00	\$0.50	\$0.00	\$0.00	\$0.00	\$29.43	\$38.39

(*)Special Calculation Note :

Apprentice and Apprentice Improver - Health and Welfare after 30 days
Mason Trainees - Health and Welfare after 90 days

Ratio :

Bricklayer Stone Mason Refractory Worker:
1-2 Journeymen to 1 Apprentice
3-4 Journeymen to 2 Apprentice
5-6 Journeymen to 2 Apprentice
7-10 Journeymen to 3 Apprentice

Mason Trainee Ratio:
1 Apprentice permits 1 Mason Trainee
2 Apprentice permits 1 Mason Trainee
3 Apprentice permits 2 Mason Trainee
4 Apprentice permits 2 Mason Trainee

In order to utilize a Pre-Apprentice, you must have 1 registered apprentice in your employ.
Ratio of Improver Apprentices to Journeymen in no case shall their be no more than 1 Improver Apprentice to 6 Journeymen

Jurisdiction (* denotes special jurisdictional note) :

Champaign, Clark, Clinton, Darke, Greene, Highland, Logan, Miami, Montgomery, Preble*, Shelby

Special Jurisdictional Note :

In Preble County the following townships are included: Jackson, Monroe, Harrison, Twin, Jefferson and Washington

Details :

Apprentice Ratio's covers: Bricklayer, Stone Mason, Refractory worker and Pointer, Cleaner, Caulker

Prevailing Wage Rate Skilled Crafts

Name of Union: Bricklayer Local 23 Heavy Hwy (A)

Type of Rate: Commercial

Change #:
LCN02-2026ib

Craft:
Bricklayer

Effective Date:
6/10/2026

Effective Date:
6/10/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Sewer Water Works A	\$35.31		\$10.71	\$10.14	\$0.59	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$58.55	\$76.21
Apprentice	BHR	Percent										
1st year	\$24.72	\$70.00	\$10.71	\$10.14	\$0.59	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$47.96	\$60.32
2nd year	\$28.25	\$80.00	\$10.71	\$10.14	\$0.59	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$51.49	\$65.62
3rd year	\$31.78	\$90.00	\$10.71	\$10.14	\$0.59	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$55.02	\$70.91

(*)Special Calculation Note :

This rate is not for building construction.

This rate applies only to the Cement Masons. All other Bricklaying, PCC, Stone, Tile, Marble, Refractory, Industrial and all other applicable work performed will be performed under the applicable rates for those contracts.

Ratio :

- 3 Journeymen to 1 Apprentice
- 6 Journeymen to 2 Apprentice
- 9 Journeymen to 3 Apprentice
- 12 Journeymen to 4 Apprentice
- 15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Adams, Allen, Ashland, Ashtabula, Athens, Auglaize, Belmont, Brown, Butler, Carroll, Champaign, Clark, Clermont, Clinton, Columbiana, Coshocton, Crawford, Cuyahoga, Darke, Defiance, Delaware, Erie, Fairfield, Fayette, Franklin, Fulton, Gallia, Geauga, Greene, Guernsey, Hamilton, Hancock, Hardin, Harrison, Henry, Highland, Hocking, Holmes, Huron, Jackson, Jefferson, Knox, Lake, Lawrence, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Marion, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morgan, Morrow, Muskingum, Noble, Ottawa, Paulding, Perry, Pickaway, Pike, Portage, Preble, Putnam, Richland, Ross, Sandusky, Scioto, Seneca, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Van Wert, Vinton, Warren, Washington, Wayne

Special Jurisdictional Note :

Details :

Bricklayer Local 23 Heavy Hwy (A): Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.

Bricklayer Local 23 Heavy Hwy (B): Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control, Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate Skilled Crafts

Name of Union: Bricklayer Local 23 Heavy Hwy (B)

Type of Rate: Commercial

Change #:
LCN02-2026ib

Craft:
Bricklayer

Effective Date:
6/10/2026

Effective Date:
6/10/2026

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Cement Mason Bricklayer Power Plants Tunnels Amusement Parks B	\$36.31		\$10.71	\$10.14	\$0.60	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$59.56	\$77.72
Apprentice	BHR	Percent										
1st year	\$25.42	\$70.00	\$10.71	\$10.14	\$0.60	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$48.67	\$61.38
2nd year	\$29.05	\$80.00	\$10.71	\$10.14	\$0.60	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$52.30	\$66.83
3rd year	\$32.68	\$90.00	\$10.71	\$10.14	\$0.60	\$0.00	\$1.80	\$0.00	\$0.00	\$0.00	\$55.93	\$72.27

(*)Special Calculation Note :

This rate is not for building construction.

This rate applies only to the Cement Masons. All other Bricklaying, PCC, Stone, Tile, Marble, Refractory, Industrial and all other applicable work performed will be performed under the applicable rates for those contracts.

Ratio :

- 3 Journeymen to 1 Apprentice
- 6 Journeymen to 2 Apprentice
- 9 Journeymen to 3 Apprentice
- 12 Journeymen to 4 Apprentice
- 15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Adams, Allen, Ashland, Ashtabula, Athens, Auglaize, Belmont, Brown, Butler, Carroll, Champaign, Clark, Clermont, Clinton, Columbiana, Coshocton, Crawford, Cuyahoga, Darke, Defiance, Delaware, Erie, Fairfield, Fayette, Franklin, Fulton, Gallia, Geauga, Greene, Guernsey, Hamilton, Hancock, Hardin, Harrison, Henry, Highland, Hocking, Holmes, Huron, Jackson, Jefferson, Knox, Lake, Lawrence, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Marion, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morgan, Morrow, Muskingum, Noble, Ottawa, Paulding, Perry, Pickaway, Pike, Portage, Preble, Putnam, Richland, Ross, Sandusky, Scioto, Seneca, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Van Wert, Vinton, Warren, Washington, Wayne

Special Jurisdictional Note :

Details :

Bricklayer Local 23 Heavy Hwy (A): Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.

Bricklayer Local 23 Heavy Hwy (B): Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control, Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter & Pile Driver SW Zone 1

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Carpenter

Effective Date:
6/10/2026

Effective Date:
6/10/2026

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter & Piledriver	\$34.59		\$10.03	\$6.95	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$56.82	\$74.12
Apprentice	BHR	Percent										
1st 6 Months	\$24.21	\$70.00	\$10.03	\$2.00	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$41.49	\$53.59
2nd 6 Months	\$24.21	\$70.00	\$10.03	\$2.00	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$41.49	\$53.59
3rd 6 Months	\$27.67	\$80.00	\$10.03	\$5.56	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$48.51	\$62.35
4th 6 Months	\$27.67	\$80.00	\$10.03	\$5.56	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$48.51	\$62.35
5th 6 Months	\$31.13	\$90.00	\$10.03	\$6.26	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$52.67	\$68.23
6th 6 Months	\$31.13	\$90.00	\$10.03	\$6.26	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$52.67	\$68.23
7th 6 Months	\$32.86	\$95.00	\$10.03	\$6.60	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$54.74	\$71.17
8th 6 Months	\$32.86	\$95.00	\$10.03	\$6.60	\$0.80	\$0.00	\$4.28	\$0.17	\$0.00	\$0.00	\$54.74	\$71.17

(*)Special Calculation Note :

Other is for UBC National Fund

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Champaign, Clark, Darke, Greene, Logan, Miami, Montgomery, Preble, Shelby

Special Jurisdictional Note :

Details :

Carpenter duties shall include but not limited to: Pile driving, milling, fashioning, joining, assembling, erecting, fastening, or dismantling of all material of wood, plastic, metal, fiber, cork, and composition, and all other substitute materials: pile driving, cutting, fitting, and placing of lagging, and the handling, cleaning, erecting, installing, and dismantling of machinery, equipment, and erecting pre-engineered metal buildings.

Pile Drivers work but not limited to: unloading, assembling, erection, repairs, operation, signaling, dismantling, and reloading all equipment that is used for pile driving including pile butts. pile butts is defined as sheeting or scrap piling. Underwater work that may be required in connection with the installation of piling. The diver and his tender work as a team and shall arrive at their own financial arrangements with the contractor. Any configuration of wood, steel, concrete, or composite that is jetted, driven, or vibrated onto the ground by conventional pile driving equipment for the purpose of supporting a future load that may be permanent or temporary. Driving bracing, plumbing, cutting off and capping of all piling whether wood, metal, pipe piling or composite. loading, unloading, erecting, framing, dismantling, moving, and handling of pile driving equipment. piling used in the construction and repair of all wharves, docks, piers, trestles, caissons, cofferdams, and the erection of all sea walls and breakwaters. All underwater and marine work on bulkheads, wharves, docks, shipyards, caissons, piers, bridges, pipeline work, viaducts, marine cable and trestles, as well as salvage and reclamation work where divers are employed. Rate shall include carpenters, acoustic, and ceiling installers, drywall installers, pile drivers, and floorlayers.

Prevailing Wage Rate Skilled Crafts

Name of Union: Cement Mason Local 132 (Dayton)

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Cement Mason

Effective Date:
6/1/2026

Effective Date:
6/1/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	\$35.15		\$8.95	\$7.35	\$0.85	\$0.00	\$2.35	\$0.06	\$0.00	\$0.00	\$54.71	\$72.28
Apprentice	BHR	Percent										
1st Year	\$24.61	\$70.02	\$8.95	\$7.35	\$0.85	\$0.00	\$2.35	\$0.06	\$0.00	\$0.00	\$44.17	\$56.47
2nd Year	\$28.12	\$80.00	\$8.95	\$7.35	\$0.85	\$0.00	\$2.35	\$0.06	\$0.00	\$0.00	\$47.68	\$61.74
3rd Year	\$31.64	\$90.02	\$8.95	\$7.35	\$0.85	\$0.00	\$2.35	\$0.06	\$0.00	\$0.00	\$51.20	\$67.02

(*)Special Calculation Note :

Other: International Training Fund

Cement Masons on outrigger, swing or hanging scaffolds, manlifts:

\$0.75 per hour above scale up to twenty-five (25) feet and \$0.75 per hour for each additional twenty-five (25) feet or part of same.

Cement Mason operating a grinder: \$0.30 per hour above the journeyman scale.

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Champaign, Clark, Clinton, Darke, Greene, Miami, Montgomery, Preble, Shelby

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 71 DOT Traffic Signal Highway Lighting American Line Builders

Type of Rate: Commercial

Change #:
LCN01-2025ib

Craft:
Electrical

Effective Date:
6/4/2025

Effective Date:
6/4/2025

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Electrical Lineman	\$46.03		\$7.50	\$1.38	\$0.46	\$0.00	\$9.20	\$0.50	\$0.00	\$0.00	\$65.07	\$88.09
Traffic Signal & Lighting Journeyman	\$44.43		\$7.50	\$1.33	\$0.44	\$0.00	\$8.89	\$0.50	\$0.00	\$0.00	\$63.09	\$85.31
Equipment Operator	\$40.44		\$7.50	\$1.21	\$0.40	\$0.00	\$8.09	\$0.50	\$0.00	\$0.00	\$58.14	\$78.36
Groundman 0 to 12 months (W/O CDL)	\$24.52		\$7.50	\$0.74	\$0.25	\$0.00	\$4.90	\$0.50	\$0.00	\$0.00	\$38.41	\$50.67
Groundman 0 to 12 Months (W CDL)	\$26.78		\$7.50	\$0.80	\$0.27	\$0.00	\$5.36	\$0.50	\$0.00	\$0.00	\$41.21	\$54.60
Groundman greater than 1 year (W CDL)	\$29.07		\$7.50	\$0.87	\$0.29	\$0.00	\$5.81	\$0.50	\$0.00	\$0.00	\$44.04	\$58.58
Traffic Apprentice	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1st 1000 hrs	\$26.66		\$7.50	\$0.80	\$0.27	\$0.00	\$5.33	\$0.50	\$0.00	\$0.00	\$41.06	\$54.39
2nd 1000 hrs	\$28.88		\$7.50	\$0.87	\$0.29	\$0.00	\$5.78	\$0.50	\$0.00	\$0.00	\$43.82	\$58.26
3rd 1000 hrs	\$31.10		\$7.50	\$0.93	\$0.31	\$0.00	\$6.22	\$0.50	\$0.00	\$0.00	\$46.56	\$62.11
4th 1000 hrs	\$33.32		\$7.50	\$1.00	\$0.33	\$0.00	\$6.66	\$0.50	\$0.00	\$0.00	\$49.31	\$65.97
5th 1000 hrs	\$35.54		\$7.50	\$1.07	\$0.36	\$0.00	\$7.11	\$0.50	\$0.00	\$0.00	\$52.08	\$69.85
6th 1000 hrs	\$39.99		\$7.50	\$1.20	\$0.40	\$0.00	\$8.00	\$0.50	\$0.00	\$0.00	\$57.59	\$77.59
Apprentice	BHR	Percent										
1st 1,000 Hours	\$27.62	\$60.00	\$7.50	\$0.83	\$0.28	\$0.00	\$5.52	\$0.50	\$0.00	\$0.00	\$42.25	\$56.06
2nd 1,000 Hours	\$29.92	\$65.00	\$7.50	\$0.90	\$0.30	\$0.00	\$5.98	\$0.50	\$0.00	\$0.00	\$45.10	\$60.06
3rd 1,000 Hours	\$32.22	\$70.00	\$7.50	\$0.97	\$0.32	\$0.00	\$6.44	\$0.50	\$0.00	\$0.00	\$47.95	\$64.06
4th 1,000 Hours	\$34.52	\$75.00	\$7.50	\$1.04	\$0.35	\$0.00	\$6.90	\$0.50	\$0.00	\$0.00	\$50.81	\$68.07
5th 1,000 Hours	\$36.82	\$80.00	\$7.50	\$1.10	\$0.37	\$0.00	\$7.36	\$0.50	\$0.00	\$0.00	\$53.65	\$72.07

6th 1,000 Hours	\$39.13	\$85.00	\$7.50	\$1.17	\$0.39	\$0.00	\$7.82	\$0.50	\$0.00	\$0.00	\$56.51	\$76.07
7th 1,000 Hours	\$41.43	\$90.00	\$7.50	\$1.24	\$0.41	\$0.00	\$8.28	\$0.50	\$0.00	\$0.00	\$59.36	\$80.07

(*)Special Calculation Note :

Other: Health Reimbursement Account

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Auglaize, Champaign, Clark, Clinton, Darke, Greene, Logan, Mercer, Miami, Montgomery, Preble, Shelby

Special Jurisdictional Note :

Details :

A groundman when directed shall assist a Journeymen in the performance of his/her work on the ground, including the use of hand tools. Under no circumstances shall this classification climb poles, towers, ladders, or work from an elevated platform or bucket truck. This classification shall not perform work normally assigned to an apprentice lineman. No more than three (3) Groundmen shall work alone. Jobs with more that three Groundmen shall be supervised by a Groundcrew Foreman, Journeyman Lineman, Journeyman Traffic Signal Technician or an Equipment Operator.

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 82 Inside Lt Commercial South West

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Electrical

Effective Date:
5/20/2026

Effective Date:
5/20/2026

Classification	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Electrician	\$39.40		\$8.35	\$10.23	\$0.67	\$0.00	\$4.30	\$0.00	\$0.00	\$0.00	\$62.95	\$82.65
CE-3 10,001-12,000	\$30.35		\$6.99	\$0.91	\$0.96	\$0.00	\$0.91	\$0.00	\$0.00	\$0.10	\$40.22	\$55.40
CE-2 9,001-10,000 Hrs	\$24.28		\$6.99	\$0.73	\$0.96	\$0.00	\$0.73	\$0.00	\$0.00	\$0.10	\$33.79	\$45.93
CE-1 8,001-9,000 Hrs	\$22.25		\$6.99	\$0.67	\$0.96	\$0.00	\$0.67	\$0.00	\$0.00	\$0.10	\$31.64	\$42.77
CW-4 6,001-8,000 Hrs	\$20.23		\$6.99	\$0.61	\$0.96	\$0.00	\$0.61	\$0.00	\$0.00	\$0.10	\$29.50	\$39.61
CW-3 4,001-6,000 Hrs	\$18.21		\$6.99	\$0.55	\$0.96	\$0.00	\$0.55	\$0.00	\$0.00	\$0.10	\$27.36	\$36.47
CW-2 2,001-4,000 Hrs	\$17.20		\$6.99	\$0.52	\$0.96	\$0.00	\$0.52	\$0.00	\$0.00	\$0.10	\$26.29	\$34.89
CW-1 0-2,000 Hrs	\$16.18		\$6.99	\$0.49	\$0.96	\$0.00	\$0.49	\$0.00	\$0.00	\$0.10	\$25.21	\$33.30
Apprentice	BHR	Percent										
1st period 0 - 1000 hrs	\$18.12	\$46.00	\$4.78	\$0.74	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.95	\$33.01
2nd period 1001-2000 hrs	\$18.12	\$46.00	\$4.78	\$0.74	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.95	\$33.01
3rd period 2001-3500 hrs	\$19.70	\$50.00	\$7.73	\$5.12	\$0.33	\$0.00	\$2.15	\$0.00	\$0.00	\$0.00	\$35.03	\$44.88
4th period 3501-5000 hrs	\$20.49	\$52.00	\$7.75	\$5.32	\$0.35	\$0.00	\$2.24	\$0.00	\$0.00	\$0.00	\$36.15	\$46.39
5th period 5001-6500 hrs	\$24.43	\$62.00	\$7.88	\$6.34	\$0.42	\$0.00	\$2.67	\$0.00	\$0.00	\$0.00	\$41.74	\$53.95
6th period 6501-8000 hrs	\$30.34	\$77.00	\$8.06	\$7.88	\$0.52	\$0.00	\$3.31	\$0.00	\$0.00	\$0.00	\$50.11	\$65.28

(*)Special Calculation Note :

Misc: Administrative Fees

Ratio :

1 to 3 Journeymen to 4 Apprentices
4 to 6 Journeymen to 8 Apprentices

Construction Electrician and Construction Wireman Ratio There shall be a minimum ratio of one inside Journeyman to every (4) employees of different classification per jobsite. An inside Journeyman Wireman is required on the project as the fifth (5th) worker or when apprentices are used.

Jurisdiction (* denotes special jurisdictional note) :

Clinton, Darke, Greene, Miami, Montgomery, Preble, Warren*

Special Jurisdictional Note :

The following townships in Warren County are included: Clearcreek, Franklin and Wayne.

Details :

The scope of work for the light commercial agreement shall apply to the following facilities not to exceed 200,000 square feet; office buildings, shopping centers, auto sales agencies and garages, churches, funeral homes, nursing homes, hotels, retail and wholesale facilities, small stand-alone manufacturing facilities when free standing and not part of a larger facility (not to exceed 50,000 square fee), solar projects (500 panels or less) unless otherwise covered under the agreement, lighting retrofits (when not associated with remodels involving branch re-circuiting) lighting retrofits shall be defined as the changing of lamps and ballasts in existing light fixtures and shall also include the one for one replacement of existing fixtures, warehouses, gas stations, food service centers, restaurants, entertainment facilities, hospitals, clinics, motels, residential buildings.

Prevailing Wage Rate Skilled Crafts

Name of Union: Ironworker Local 290

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Ironworker

Effective Date:
6/1/2026

Effective Date:
6/1/2026

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)		
Classification											
Ironworker	\$40.00		\$9.80	\$9.50	\$0.85	\$0.00	\$5.59	\$0.00	\$0.00	\$65.74	\$85.74
Structural, Welder, Fence Erector, Reinforcing Rods, Machinery Mover, Sheeter, Metal Building Erector, Rigger & Erector	\$40.00		\$9.80	\$9.50	\$0.85	\$0.00	\$5.59	\$0.00	\$0.00	\$65.74	\$85.74
Apprentice	BHR	Percent									
1st Year	\$25.50	\$63.75	\$9.80	\$9.50	\$0.85	\$0.00	\$4.09	\$0.00	\$0.00	\$49.74	\$62.49
2nd Year	\$29.50	\$73.75	\$9.80	\$9.50	\$0.85	\$0.00	\$4.09	\$0.00	\$0.00	\$53.74	\$68.49
3rd Year	\$33.50	\$83.75	\$9.80	\$9.50	\$0.85	\$0.00	\$4.09	\$0.00	\$0.00	\$57.74	\$74.49
4th Year	\$37.50	\$93.75	\$9.80	\$9.50	\$0.85	\$0.00	\$4.09	\$0.00	\$0.00	\$61.74	\$80.49

(*)Special Calculation Note :

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Allen*, Auglaize, Butler*, Champaign*, Clark*, Clinton, Darke, Fayette*, Greene, Hardin*, Highland*, Logan*, Madison*, Mercer*, Miami, Montgomery, Preble, Shelby, Van Wert*, Warren*

Special Jurisdictional Note :

Allen County Twps included are: Auglaize, Perry, Shawnee, Amanda, Spencer, Marion, Sugar Creek, American, Bath, Jackson.

Butler County Twps included are: Milford, Wayne, Madison, Lemon.

Champaign County Twps included are: Union, Urbana, Jackson, Concord, Salem, Mad River, Johnson, Harrison, Adams.

Clark County Twps included are: Bethel, German, Green, Mad River, Moorefield, Pike, Springfield and portions of Harmony, Madison, and Pleasant

Fayette County Twps included are: Green, Jasper, Concord, Jefferson.

Hardin County Twps included are: Round Head, Marion, Liberty.

Highland County Twps included are: Fairfield, Penn, Union, Marshall, Liberty, Paint, Brush Creek.

Logan County Twps included are: Richland, Stokes, Bloomfield, Washington, Harrison, McArthur, Lake, Liberty, Pleasant, Miami.

Madison County Twps included are: Stokes.

Mercer County Twps included are: Dublin, Washington, Jefferson, Recovery, Gibson, Union, Liberty, Butler, Granville, Center, Hopewell, Franklin, Marion.

VanWert County Twps included are: Jennings.

Warren County Twps included are: Franklin, Clear Creek, Turtle Creek, Wayne, Massie, Washington, Salem, Union.

Details :

Structural Iron Work but not limited to: field fabrication, all loading to and including the erecting, rigging, assembly, dismantling, placing, temporary and permanent securing by any means of all structural iron, steel, ornamental lead, bronze, brass, copper, aluminum, glass all ferrous and non ferrous metal and composite material, precast prestressed and post-stressed concrete structures. Bridges and bridge rails, bridge viaducts, bucks bulkheads, bumper and bumper post, canopies and unistrut canopies, corrugated ferrous and non ferrous sheets when attached to steel frames, columns, beams, bar-joists, trusses, grinders, roof decking, electrical supports, elevator cars, elevator fronts and enclosures, erection of steel towers, flag poles, gymnasium equipment, stadium and arena seating, jail cell work, jail cell beds, benches, bunks, chairs, tables, mirrors, jail cell access doors, rigging and installation of machinery and equipment(erecting, aligning, anchoring and dismantling, erection and dismantling of tower cranes, derrick monorail systems, Chicago booms, overhead cranes, gantries, material and personnel hoists, tanks, hoppers and conveyors. All pre-engineered metal buildings and their entirety including siding, roofing, gutters, downspouts and erection of all.

Ornamental Iron Work but not limited to: all work in connection with field fabrication, handling including loading/off loading, sorting, cutting, fastening, anchoring, bending, hoisting, placing, burning, welding, and tying, dismantling of all materials used in miscellaneous iron or steel, for stairs, hand railings, rolling doors, rolling gates, rolling shutters, fence, windows, curtain wall, erection and welding of all metal, sash, architectural and ornamental treatments, but not necessarily limited to all sizes and types of ornamental, steel iron, lead, bronze, brass, copper, aluminum, all ferrous and non ferrous metals and composite materials .

Fence Erector Iron Worker but not limited to: All work in connection with the field fabrication and erection of chain link fence, which includes but not limited to the loading and of the fence fabric and posts also the installation of the above.

Reinforcing Iron Worker but not limited to: work in connection with field fabrication, handling, racking, sorting, cutting, bending, hoisting, placing, burning, welding and tying all materials used to reinforce concrete construction, except loading and unloading by hand. Re-aligning of the reinforced iron, wire mesh placing, bricking, pulling and similar reinforcing materials, placing steel dowels, as well as re-fasten. Reinforcing steel and wire mesh in roadways and sidewalks in connection with building construction. Also, erection and fabrication of pre-connection with building construction, also erection and fabrication of pre-stressed and precast joists, beams, columns, slabs; walls, roofs, tanks, manholes, trenches and covers. Handling of "J" or jack bars on slip forms. Metal decking similar to "corruform" when used for floor forms over metal or concrete supports either welded or clipped. Post tension, all loading and unloading, hoisting, placing and tying of all post tensioning cables. Placing and tying of all duct work in bonded post tension. All of the wrecking of cones, wedging of the tendons, stressing, cutting, repairing and grouting of bonded post tension.

Prevailing Wage Rate Skilled Crafts

Name of Union: Plasterer Local 132 (Dayton)

Type of Rate: Commercial

Change #:
LCN01-2026ib

Craft:
Plasterer

Effective Date:
5/20/2026

Effective Date:
5/20/2026

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Plasterer	\$31.68		\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$52.85	\$68.69
Apprentice	BHR	Percent										
1st 800 Hours	\$22.18	\$70.00	\$8.90	\$0.00	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$35.75	\$46.84
2nd 800 Hours	\$23.44	\$74.00	\$8.90	\$0.00	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$37.01	\$48.73
3rd 800 Hours	\$24.71	\$78.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$45.88	\$58.23
4th 800 Hours	\$25.98	\$82.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$47.15	\$60.14
5th 800 Hours	\$27.24	\$86.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$48.41	\$62.03
6th 800 Hours	\$28.51	\$90.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$49.68	\$63.94
7th 800 Hours	\$29.78	\$94.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$50.95	\$65.84
8th 800 Hours	\$31.05	\$98.00	\$8.90	\$7.60	\$0.70	\$0.00	\$3.90	\$0.07	\$0.00	\$0.00	\$52.22	\$67.75

(*)Special Calculation Note :

OTHER: International Training Fund

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

Champaign, Clark, Clinton, Darke, Greene, Miami, Montgomery, Preble, Shelby

Special Jurisdictional Note :

Details :

SECTION 02829 - ELECTRIC GATE OPERATORS

PART I - GENERAL

A. SECTION INCLUDES

1. Electric Gate Operators:
 - a. High-performance commercial DC barrier gate operators with built-in Battery Backup.

B. RELATED SECTIONS

1. Section 02820 - Fences and Gates.
2. Section 03300 - Cast-in-Place Concrete.
3. Division 16 - Requirements for electrical connections.

C. REFERENCES

1. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.
2. Underwriters Laboratories (UL): UL 325 - Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems.
3. Underwriters Laboratories (UL): UL 991 - Standard for Tests for Safety-Related Controls Employing Solid-State Devices.
4. International Organization for Standardization: ISO 9001 - Quality Management Systems.

D. SUBMITTALS

1. Submit under provisions of Section 01300.
2. Product Data: Equipment list, system description, electrical wiring diagrams for installation, and manufacturer's data sheets on each product to be used, including:
 - a. Preparation instructions and recommendations.
 - b. Storage and handling requirements and recommendations.
 - c. Installation methods.
3. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.
 - a. Operation, installation, and maintenance manuals including wiring diagrams.
 - b. Risers, layouts, and special wiring diagrams showing any changes to standard drawings.

E. DELIVERY, STORAGE, AND HANDLING

1. Deliver, store, and handle materials and products in strict compliance with manufacturer's instructions and industry standards.
2. Store products indoors in manufacturer's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

F. QUALITY ASSURANCE

1. Manufacturer Qualifications: ISO 9001 Certified Manufacturer.
2. Installer Qualifications: Installation performed by factory authorized contractor specifically trained in gate operation systems of the type found within this section.
 - a. Provide documentation of maintenance and repair service availability for emergency conditions.
 - b. Provide quarterly maintenance for one year following Substantial Completion of the Project.

G. WARRANTY

1. Manufacturer's Standard Limited Warranty:
 - a. Warranty Period: 2 years for operator, 10 years for operator frame.

PART II - PRODUCTS

A. MANUFACTURERS

1. Acceptable Manufacturer:
 - a. LiftMaster
 - b. Magnetic Autocontrol
 - c. HySecurity
 - d. Architect Approved Equal
2. Substitutions: Not permitted.
3. Requests for substitutions will be considered in accordance with provisions of Section 01600.

B. GATE OPERATORS

1. This system uses two arms with controllers working simultaneously. The gate operation shall be by access controls pad or reader for the gate arms is to be located at a minimum of 16' feet in front of the gate arm one in each direction for entrance and exit for the access provided by the 17C Contractor.
2. Gate Operators: (Basis of Design: LiftMaster MA Series High-Performance Commercial Barrier Gate Operators with Built-in Battery Backup).
 - a. LiftMaster MAT Mega Arm Barrier Gate Operators with aluminum cover.
 - b. Compliance: UL Listed. Compliant to the UL 325, UL 991 and CSA C22.2 No. 247 standards.
 - (1) This model is intended for use in Class I, II, III and IV vehicular barrier gate applications.
 - c. Warranty: 2 years for operator, 10 years for operator frame.
 - d. Operation:
 - (1) Soft start/stop.
 - (2) Universal Controller: 8 inputs right or left-handed operation safety-stop.
 - (3) Anti-tailgate, quick-close features.
 - (4) Selectable Auto Open: 15 seconds after power failure or upon battery depletion barrier arm can be set to automatically open. 15-second delay helps reduce nuisance callbacks due to short power interruptions or brownouts.
 - e. Operator Speed: Open or close speed of 2.5 seconds.
 - f. Gate Arm: Breakaway arm; held in place with breakaway retaining nuts. If arm is hit, it will break away and can be re-installed; can be set up for right or left-hand mount.
 - (1) Gate Arm Length: 17 feet each.
 - g. Motor: 1/2 HP, 24V DC, 800 RPM motor, 6,000 cycles per day.
 - h. Electrical Power Requirements: 120/220V AC.
 - i. Accessory Electrical Power Requirements: 24V DC 500 mA Battery Backup for accessory power.
 - j. Gear Reduction: 60:1 reducer in synthetic oil bath.
 - k. Chassis: Powder-coated 1/4-inch (6 mm) aluminum alloy.
 - l. Drive System: No. 80 gearbox.
 - m. Built-in Receiver: Single remote control solution for gate access and additional access points. Ability to add up to 50 remote control.
 - n. Magnetic Limit Sensors: Designed for high-cycle applications, contain no moving parts to wear out, provide reliable operation.
 - o. Surge Protection: Built-in at point of incoming line voltage from power spikes, surges.
 - p. Auxiliary Outlet: Powers accessories devices.

- q. Battery Backup: Provides operation during power outages to maintain traffic flow.
- r. Automatically resets to normal operation when power is restored; provide up to 900 full cycles.
- s. Accessories: Provide the optional accessories listed below.
 - (1) Clutch: Allows arm to be manually pushed open. Arm automatically resets to normal closed position upon receiving activation. Ideal for areas that are concerned with vandals damaging arm.
 - (2) LiftMaster STAR1000 Commercial Access Control Receiver.
 - (3) LiftMaster LD7LP Low-Power Loop Detector.
 - (4) DoorKing 1506 Keypad Entry Device mounted on steel, arched 42" pedestal.

PART III - EXECUTION

A. EXAMINATION AND PREPARATION

- 1. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
- 2. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- 3. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

B. INSTALLATION

- 1. Install in accordance with manufacturer's instructions. Test for proper operation and adjust until satisfactory results are obtained.

C. PROTECTION

- 1. Protect installed products until completion of project.
- 2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 02829

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART I - GENERAL

- A. RELATED DOCUMENTS: Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. SUMMARY: This Section specifies cast-in place concrete, including formwork, reinforcing, mix design, placement procedures, and finishes; and rigid foundation insulation. The extent of the concrete paving, including walkways, is shown on the drawings.
- C. QUALITY ASSURANCE
 - 1. Codes and Standards: Comply with provisions of following codes, specifications, and standards, except where more stringent requirements are shown or specified:
 - a. ACI 318, "Building Code Requirements for Reinforced Concrete."
 - b. Concrete Reinforcing Steel Institute (CRSI), "Manual of Standard Practice."
- D. SUBMITTALS
 - 1. Provide samples, manufacturer's product data, test reports, and materials' certifications as required in referenced sections for concrete and joint fillers and sealers.
- E. QUALITY ASSURANCE
 - 1. Codes and Standards: Comply with local governing regulations if more stringent than herein specified.
- F. JOB CONDITIONS
 - 1. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.
 - 2. Coordinate with requirements for "Temporary Facilities" specified in Section 01500.

PART II - PRODUCTS

- A. REINFORCING MATERIALS
 - 1. Reinforcing Bars: ASTM A 615, Grade 60, deformed.
 - 2. Welded Wire Fabric: ASTM A 185, welded steel wire fabric.
 - 3. Supports for Reinforcement: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire fabric in place. Use wire-bar-type supports complying with CRSI specifications.
 - 4. "Fibermesh"
- B. CONCRETE MATERIALS
 - 1. Portland Cement: ASTM C 150, Type I.
 - a. Use one brand of cement throughout project unless otherwise acceptable to Architect.
 - 2. Fly Ash: ASTM C 618, Type C or Type F.
 - 3. Normal Weight Aggregates: ASTM C 33 and as herein specified. Provide aggregates from a single source for exposed concrete.
 - 4. Water: Drinkable.
 - 5. Admixtures, General: Provide admixtures for concrete that contain not more than 0.1 percent chloride ions.
 - 6. Air-Entraining Admixture: ASTM C 260, certified by manufacturer to be compatible with other required admixtures.
 - a. Products: Subject to compliance with requirements, provide one of the following:
 - (1) "Air-Tite," Cormix.

- (2) "Air-Mix" or "Perma-Air," Euclid Chemical Co.
 - (3) "Darex AEA" or "Daravair," W.R. Grace & Co.
 - (4) Or equal.
7. Water-Reducing Admixture: ASTM C 494, Type A.
- a. Products: Subject to compliance with requirements, provide one of the following:
 - (1) "Chemtard," ChemMasters Corp.
 - (2) "PSI N," Cormix.
 - (3) "Eucon WR-75," Euclid Chemical Co.
 - (4) Or equal.

C. RELATED MATERIALS

- 1. Granular Base: Evenly graded mixture of fine and coarse aggregates to provide, when compacted, a smooth and even surface below slabs on grade.
- 2. Sand Cushion: Clean, manufactured or natural sand.
- 3. Vapor Retarder: Polyethylene sheet not less than 8 mils thick.
- 4. Moisture-Retaining Cover: One of the following, complying with ASTM C 171.
 - a. Polyethylene film.
- 5. Liquid Membrane-Forming Curing Compound: Liquid-type membrane- forming curing compound complying with ASTM C 309, Type I, Class A. Moisture loss not more than 0.055 gr./sq. cm. when applied at 200 sq. ft./gal.
- 6. Products: Subject to compliance with requirements, provide one of the following:
 - a. "A-H 3 Way Sealer," Anti-Hydro Co., Inc.
 - b. "Day-Chem Cure and Seal," Dayton Superior Corp.
 - c. "Eucocure," Euclid Chemical Co.
 - d. Or equal.

D. PROPORTIONING AND DESIGN OF MIXES

- 1. Prepare design mixes for each type and strength of concrete by experience methods as specified in ACI 301.
 - a. Limit use of fly ash to not exceed 25 percent of cement content by weight.
- 2. Design mixes to provide normal weight concrete with the following properties, as indicated on drawings and schedules:
 - a. Class III, Exterior slabs on grade and all exterior concrete not otherwise identified: 4500-psi, 28-day compressive strength; W/C ratio, 4.5% to 7.5% entrained air.
 - b. Class II, interior slabs on grade, and all interior concrete not otherwise identified: 4000-psi, 28-day compressive strength; W/C ratio, 0.51 maximum (non-air-entrained), 0.40 maximum (air-entrained).
 - c. Class I, footings, 3500-psi, 28-day compressive strength.
- 3. Adjustment to Concrete Mixes: Mix design adjustments may be requested by Contractor when characteristics of materials, job conditions, weather, test results, or other circumstances warrant, as accepted by Architect. Laboratory test data for revised mix design and strength results must be submitted to and accepted by Architect before using in work.

E. ADMIXTURES

- 1. Use water-reducing admixture or high-range water-reducing admixture (Superplasticizer) in concrete as required for placement and workability.
- 2. Use nonchloride accelerating admixture in concrete slabs placed at ambient temperatures below 50 deg F (10 deg C).
- 3. Use air-entraining admixture in exterior exposed concrete unless otherwise indicated. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having total air content with a tolerance of plus or minus 1-1/2 percent within following limits:
- 4. Other concrete (not exposed to freezing, thawing, or hydraulic pressure) or receive a surface hardener: 2 percent to 4 percent air.
- 5. Use admixtures for water reduction and set control in strict compliance with manufacturer's directions.

6. Water-Cement Ratio: Provide concrete for following conditions with maximum water-cement (W/C) ratios as follows:
 - a. Subjected to freezing and thawing; W/C 0.45.
 - b. Subjected to deicers/watertight; W/C 0.40.
 - c. Subjected to brackish water, salt spray, or deicers; W/C 0.40.
7. Slump Limits: Proportion and design mixes to result in concrete slump at point of placement as follows:
 - a. Ramps, slabs, and sloping surfaces: Not more than 3 inches.
 - b. Reinforced foundation systems: Not less than 1 inch and not more than 3 inches.
 - c. Concrete containing HRWR admixture (Superplasticizer): Not more than 8 inches after addition of HRWR to site-verified 2-inch to 3-inch slump concrete.
 - d. Other concrete: Not more than 4 inches.

F. CONCRETE MIXING

1. Ready-Mix Concrete: Comply with requirements of ASTM C 94, and as specified.
 - a. When air temperature is between 85 deg F (30 deg C) and 90 deg F (32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes, and when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

G. FOUNDATION INSULATION

1. Extruded Polystyrene Board Insulation: Rigid, cellular polystyrene thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C 578 for type indicated; with 5-year aged r-values of 5.4 and 5 at 40 and 75 deg F (4.4 and 23.9 deg C), respectively; and as follows:
 - a. Type IV, 1.6 pcf min. density, unless otherwise indicated.

PART III - EXECUTION

A. GENERAL

1. Coordinate the installation of joint materials and vapor retarders with placement of forms and reinforcing steel.

B. DEWATERING

1. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
2. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
 - a. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated utility trenches as temporary drainage ditches.
 - b. Install a dewatering system to keep subgrades dry and convey ground water away from excavations. Maintain until dewatering is no longer required.

C. FORMS

1. General: Design, erect, support, brace, and maintain formwork to support vertical and lateral, static and dynamic loads that might be applied until concrete structure can support such loads. Construct formwork so concrete members and structures are of correct size, shape, alignment, elevation, and position. Maintain formwork construction tolerances complying with ACI 347.
2. Provisions for Other Trades: Provide openings in concrete formwork to accommodate work of other trades. Determine size and location of openings, recesses, and chases from trades providing such items. Accurately place and securely support items built into forms.

D. VAPOR RETARDER/BARRIER INSTALLATION

1. General: Following leveling and tamping of granular base for slabs on grade, place vapor retarder/barrier sheeting with longest dimension parallel with direction of pour.
 2. Lap joints 6 inches and seal vapor barrier joints with manufacturers' recommended mastic and pressure-sensitive tape.
 3. After placement of vapor retarder/barrier, cover with sand cushion and compact to depth as shown on drawings.
- E. PLACING REINFORCEMENT
1. General: Comply with Concrete Reinforcing Steel Institute's recommended practice for "Placing Reinforcing Bars," for details and methods of reinforcement placement and supports and as herein specified.
 - a. Avoiding cutting or puncturing vapor retarder during reinforcement placement and concreting operations.
 2. Clean reinforcement of loose rust and mill scale, earth, ice, and other materials that reduce or destroy bond with concrete.
 3. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcing by metal chairs, runners, bolsters, spacers, and hangers, as approved by Architect.
 4. Place reinforcement to obtain at least minimum coverages for concrete protection. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
 5. Install welded wire fabric in as long lengths as practicable. Lap adjoining pieces at least one full mesh and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.
- F. JOINTS
1. Interior slabs on Grade:
 - a. Locate control and construction joints openings, walls, inside corners and at 15 feet on center generally. Review with Architect proposed location of joints prior to execution of. Schedule slab placements and sawcutting operations such that sawing is completed prior to onset of shrinkage cracking.
 - b. Where joints are exposed to view in the finished building, provide joint sealant.
 2. Exterior slabs on Grade: Locate joints as follows:
 - a. Control Joints: Review with Architect proposed location of joints prior to execution of. Tooled, 7/8" deep, 4'-0" to 6'-0" on center between expansion joints.
- G. PREPARATION OF FORM SURFACES
1. General: Coat contact surfaces of forms with an approved, nonresidual, low-VOC, form-coating compound before reinforcement is placed.
- H. CONCRETE PLACEMENT
1. Inspection: Before placing concrete, inspect and complete formwork installation, reinforcing steel, and items to be embedded or cast in. Notify other crafts to permit installation of their work; cooperate with other trades in setting such work.
 2. General: Comply with ACI 304, "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete," and as herein specified.
 3. Placing Concrete in Forms: Deposit concrete in forms in horizontal layers not deeper than 24 inches and in a manner to avoid inclined construction joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.
 - a. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spading, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI 309.
 4. Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.
 - a. Consolidate concrete around reinforcement and other embedded items and into corners.

- b. Bring slab surfaces to correct level with straightedge and strike off.
- c. Maintain reinforcing in proper position during concrete placement.
- 5. Cold-Weather Placing: Comply with provisions of ACI 306 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
- 6. Hot-Weather Placing: When hot weather conditions exist that would seriously impair quality and strength of concrete, place concrete in compliance with ACI 305.

I. FINISH OF FORMED SURFACES

- 1. Schedule of finishes of flatwork is as follows:
 - a. Typical interior floor areas to receive adhesive-applied finishes or carpet: troweled finish, Class B tolerance.
 - b. Typical interior floor areas to remain exposed: troweled finish, Class A tolerance.
 - c. Any exposed concrete foundation wall: hand trowel finish, Class A tolerance
 - d. Exterior slabs: hand trowel finish, Class B tolerance.

J. DISPOSAL AND WASH OUT OF CONCRETE

- 1. General Work & Labor Contractor shall select a location to be used for duration of project by all contractors for wash out of delivery truck, equipment, etc.
- 2. Absolutely no concrete is to be discarded or placed in the dumpster, as a result of post-wash out, excess materials, tear out of existing placed material, etc! Contractor shall dispose of by another means than the dumpsters included in the allowance.

END OF SECTION 03300