CONSTRUCTION DOCUMENTS

JULY 2026

PARKING LOT EXPANSION

FOR

UPPER VALLEY CAREER CENTER

8901 LOONEY ROAD
PIQUA, OHIO 45424

LEVIN PORTER ARCHITECTS
3011 NEWMARK DRIVE
MIAMISBURG, OHIO 45342
O: 937.224.1931
F: 937.224.3091
www.levin-porter.com
Levin Porter Associates Inc. dba Levin Porter Architects

BURKHARDT ENGINEERS ▼ SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 ~ Fax: (937) 223-3849

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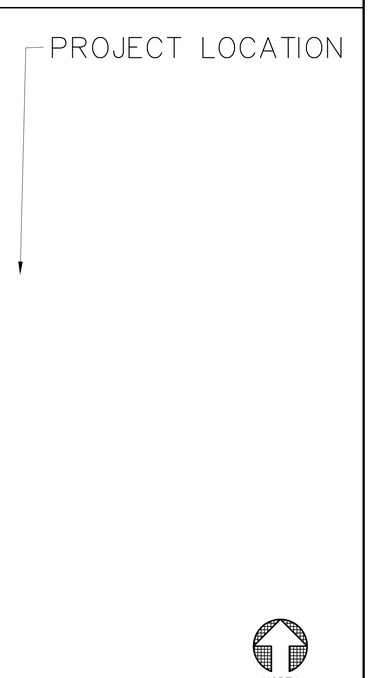
VICINITY MAP



STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT
MARK C. WISEMAN
LICENSE #13215
EXPIRES:12/31/27

REVISIONS:

PRINTING:

UPPER VALLEY CAREER CENTER
PARKING LOT EXPANSION
8811 CAREER DRIVE
PIQUA, OHIO 45356

PROJECT NO: 263321.00
CHECKED BY: MW
DRAWN BY: MW
DATE: 07-22-26

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DRAWING NUMBER
T-1

SITE DEVELOPMENT PLANS FOR:

UPPER VALLEY CAREER CENTER PARKING EXPANSION

8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

DEVELOPMENT / DESIGN TEAM

OWNER / DEVELOPER
Upper Valley Career Center
Contact: Steve Verhoff
Phone: 937.778.1980
Email: verhoffs@uppervalleycc.org

CIVIL ENGINEER / CONSULTANT
Burkhardt Engineering
Contact: Nathan Tirey
Phone: 937.388.0060
Email: ntirey@burkhardtinc.com

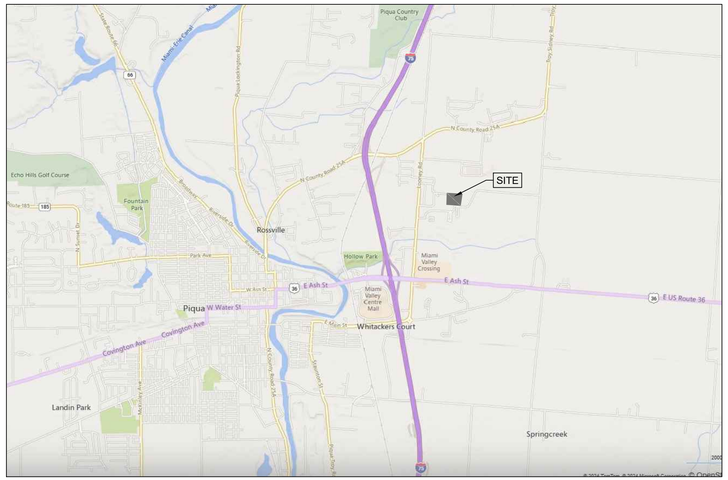
ARCHITECT
Levin-Porter Architects
Contact: Mark Wiseman
Phone: 937.224.1931
Email: mwiseman@levin-porter.com

PROJECT SUMMARY

Project will consist of a parking expansion and driveway improvements.

PROPERTY INFORMATION

Address: 8811 Career Drive, Piqua, Ohio 45402
Legal Description: City of Piqua InLot 7856
Area: (IL 7856, APN: N44-250296, +/- 35.81 acres)
Zoning: CV-Civic
Flood Zone Designation: FIRM # 39109C0062E, effective date: August 2, 2011.
Zone "X" : Areas determined to be outside the 0.2% annual chance floodplain.



VICINITY MAP
Not to Scale

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811 Know what's below. Call before you dig.

CIVIL ISSUE LOG	
Description	Date
Issued for Bid & Permit	07.17.2026

STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

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ENGINEERS & SURVEYORS
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Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: CIVIL COVER SHEET

Sheet No.: C-0.0

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GENERAL CONSTRUCTION NOTES

1. Site/Civil Specifications: All plans, construction, materials, workmanship, and methods shall be in accordance with the current "Rules and Regulations" of City of Piqua and the Ohio Department of Transportation Construction and Material Specifications, current edition. When in conflict, the City requirements shall prevail.
2. Prior to the start of construction, the Contractor shall be responsible for ensuring that all required permits and approvals have been obtained. No construction or fabrication shall begin until the Contractor has received and reviewed all plans and other documents approved by all the permitting authorities. The Contractor shall post all bonds, pay all fees, and provide proof of insurance as required to obtain permits.
3. All sediment and erosion control measures, as shown on Sheets C-6.7 and C-6.8, shall be in place prior to the start of any demolition, clearing and grubbing, or construction operations. Erosion control measures shall conform to all Local, State, and Federal regulations and requirements.
4. North arrow, existing topography, and property lines based on field survey of the subject property prepared by Burkhardt Engineering in June 2026. An ALTA/NSPS Land Title Survey was not performed, survey may not depict any or all easements impacting the subject property.
5. Information on existing utilities has been compiled from available information including utility company and municipal records and field survey and is not guaranteed correct and complete. Utilities are shown to alert the Contractor to their presence and the Contractor is solely responsible for determining actual locations and elevations of all utilities. Prior to demolition or construction, the Contractor shall contact "811", 72 hours before commencement of work and verify all utility locations.
6. The Contractor shall provide and maintain traffic control devices for protection of vehicles and pedestrians consisting of drums, barriers, signs, lights, fences and uniformed traffic officers as required by Local and State Authorities.
7. The Contractor shall protect all iron pins, monuments and property corners during construction. Any Contractor disturbed pins, monuments, etc. shall be reset by a Professional Land Surveyor (Registered with the State) at the expense of the Contractor.
8. Any disturbance incurred to any adjacent properties or public right-of-way during demolition and construction shall be restored to its original condition or better, in accordance with and to the satisfaction of Local and State Authorities.
9. The Contractor shall abide by all OSHA, Federal, State, and Local regulations when operating cranes, booms, hoists, etc. in close proximity to overhead electric lines. If Contractor must operate equipment close to electrical lines, contact the local Utility Provider to make arrangements for proper safeguards.
10. All material schedules shown on the plans are for general information only. The Contractor shall prepare their material schedules based upon their plan review. All schedules shall be verified in the field by the Contractor prior to ordering materials or performing work.
11. The Contractor shall review all plans prior to construction and immediately report any conflicts and/or discrepancies to the engineer-of-record.
12. All work within public rights-of-way shall be in accordance with the City of Piqua rules, specifications, and regulations.

GENERAL DEMOLITION NOTES

1. Within the subject property, the intent is to have a clean, clear site, free of all existing items noted to be removed in order to allow for the construction of the new project.
2. All items noted to be removed shall be done as part of the contract for general construction.
3. Remove and dispose of any materials requiring removal from the work area in an approved off-site landfill.
4. The Contractor shall secure all permits for demolition and disposal of demolition material to be removed from the site. The Contractor shall post all bonds and pay all permit fees as required.
5. The Contractor shall cut and plug, or arrange for the appropriate utility company to cut and plug service piping at the property line or at the main (as required). All services may not be shown on this plan.
6. For all items noted to be removed, remove not only above ground elements, but all underground elements as well, including, but not necessarily limited to: foundations, slabs, gravel fills, tree roots, pipes, wires, unsuitable materials, etc.
7. The Contractor shall sawcut existing pavement to provide a clean edge between existing pavement to remain and existing pavement to be removed.
8. Limits of removal and sawcut lines shown on demolition plan are approximate only. Actual quantities may vary due to construction activities. Contractor is responsible for all demolition, removal and restoration work necessary to allow for the construction of the new project.
9. Backfill excavations resulting from demolition work to meet the requirements for fill outlined in the Geotechnical / Soils Report.

GENERAL SITE NOTES

1. All site and radii dimensions are referenced to the face of curbs or edge of paving unless otherwise noted.
2. All sidewalks, curb and gutter, street paving, curb cuts, driveway approaches, handicap ramps, etc. constructed outside the property line in the right-of-way shall conform to all Local and/or State specifications and requirements.
3. Contractor shall sawcut existing pavement to provide a clean, straight joint where new pavement meets existing pavement and ensure positive drainage.
4. All concrete pavement shall have joints in accordance with ACI 330R-08, Section 3.7 and Appendix C. Contraction joints shall be 1/4 of the slab thickness. Isolation joints shall be placed between pavement and foundations, inlets, and other fixed structures. Contraction joints shall be tool finished and spaced as follows:

   Curbing: 10'-0" (max) spacing.
   Sidewalks: 5'-0" (max) spacing.
   Vehicular Traffic Areas: 24 x Concrete Pavement Thickness (feet), 15'-0" (max) spacing.

GENERAL GRADING, EARTHWORK & DRAINAGE NOTES

1. All spot elevations indicated in pavement areas are at bottom face of curb and/or finished pavement grade unless noted otherwise. All spot elevations indicated in grass or landscape areas are finished grade unless noted otherwise.
2. The Contractor shall be responsible for the removal and disposal of all vegetation and organic materials from the site that results from clearing & grubbing activities.
3. The Contractor shall be responsible for stripping and removal of all excess topsoil from the site. All topsoil that cannot be used on site shall be removed from the site at the Contractor's expense. The Contractor may dispose of excess topsoil by burying topsoil in landscape areas only at the direction of the Owner or the Owner's Representative.
4. The Contractor will be responsible for all safety requirements and for the protection of all existing and proposed utilities or structures during earthwork procedures.
5. The Contractor shall be responsible for the import of structural fill materials if suitable material is not available on site. The location and testing of suitable material shall be the Contractor's responsibility. The Contractor shall be responsible for the export and disposal of all excess or unsuitable materials.
6. The Contractor shall provide construction dewatering as necessary to complete construction as outlined in plans.
7. The Contractor shall exercise extreme care in establishing all grades and slopes in pavement areas, ramps and sidewalks in the vicinity of handicap parking and access areas and shall comply with Federal, State, and Local Codes.
8. In areas where sheet drainage flows from grass or landscape areas onto paved areas, the finished grade in grass or landscape areas shall be 1/2 inch above the top of curb or above the pavement in areas without curb. In areas where sheet drainage flows from pavement to grass or landscaped areas, the finished grade in grass or landscape areas shall be 1/2 inch below the pavement.
9. The Contractor shall provide positive drainage in all areas and away from all buildings.
10. All pavement shall be laid on a straight, even, and uniform grade with a minimum of 1:100 (1.0%) slope toward the collection points unless otherwise specified on plans. Cut or fill slopes in unpaved areas shall not exceed 3:1 (33.3%) maximum grade unless otherwise noted on plans.
11. The Contractor shall adjust tops/lids/grates of all cleanouts, manholes, inlets, valves, etc. to match final grade.
12. Following grading of subsoil to subgrade elevations, the Contractor shall provide 4" of topsoil (minimum) in all disturbed areas which are not to be paved. Final grades should be smoothly finished to surrounding areas and ensure positive drainage. Stockpiled topsoil shall be screened prior to respreading and should be free of subsoil, debris, and stones.
13. The Contractor shall establish permanent lawn vegetation (grass) in all areas disturbed by construction (including rights-of-way and adjacent properties), unless otherwise specified on landscape plans. Seed mixture, application rate, mulch, fertilization, and watering shall be appropriate for the local climate and soil conditions, to ensure a healthy stand of lawn. Provide Owner with alternate pricing for hydroseed.
14. The Contractor shall be responsible for determining exact quantities of cut and/or fill for estimating and construction and should alert the Engineer of any excessive cut and/or fill, especially if additional cut and/or fill will be required due to poor existing soil conditions discovered during earthwork operations.
15. The Contractor shall obtain a copy of the Geotechnical / Soils Report and become thoroughly familiar with site and subgrade information and fully implement recommendations given therein.
16. The Contractor shall provide geotextile weed mat under all landscape mulch/stone and rip-rap.
17. If field tiles are encountered, notify Engineer, field tiles will likely need to be replaced and connected to storm sewer system.
18. Proposed spot elevations are provided in a truncated form to save space, add 900' to each spot elevation to convert the elevation to NAVD88 datum.

GENERAL UTILITY NOTES:

1. All utilities shown are approximate locations only and have been compiled from the latest available mapping. The exact location of all underground utilities shall be verified by the Contractor prior to the start of construction.
2. Contractor to coordinate with the local utility companies for all locations and connections. A preconstruction meeting with the various utility companies may be required prior to the start of any construction activity.
3. The Contractor shall visit the site and verify the location, elevation, and condition of all existing utilities by various means prior to beginning any excavation. Test pits shall be dug at all locations where existing and proposed utility lines cross, and the horizontal and vertical locations of the utilities shall be determined. The Contractor shall contact the Engineer in the event of any unforeseen conflicts between existing and proposed utilities so that an appropriate modification may be made.
4. The Contractor shall ensure that all utility companies and local standards for materials and construction methods are met. The Contractor shall perform proper coordination with the respective utility company. The Contractor shall coordinate work to be performed by the various utility companies and shall pay all fees for connections, disconnection, relocations, inspections, and demolition.
5. All valve boxes and curb boxes shall be adjusted to the final grades and located in grassed areas unless indicated otherwise on the plans.
6. The Contractor shall provide traffic bearing concrete collars and lids for all cleanouts, manholes, inlets, valves, etc. which are located in paved areas.
7. All existing pavement within the rights-of-way where utility piping is to be installed shall be saw cut and replaced or directionally bored in accordance with Local and/or State requirements. Existing pavement shall be repaired as necessary.
8. All utility lines and trenches shall be installed, bedded and backfilled according to manufacturer's specifications and to the satisfaction of Local and State Authorities.
9. Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited.
10. The Contractor shall prepare and submit shop drawings of all site utility structures and materials to engineer-of-record for review, prior to ordering materials or construction.

STORM SEWER NOTES:

All storm sewer shall be reinforced concrete pipe (RCP, ASTM C76 - Class IV, minimum) or high-density polyethylene pipe (ADS N-12 WT, watertight, or equivalent), unless otherwise noted on plans. All pipe shall be installed according to manufacturer's specifications. All storm sewer pipe and joints to be watertight, including the downspout collection system.

All catch basins installed in sump areas to have finger drains as detailed on Sheet C-5.0

Contractor to provide steps, as required by ODOT and OSHA, in all catch basins and manholes.

Storm sewer connection, permit and construction to be coordinated with the City of Piqua.

ELECTRIC NOTES:

Coordinate electric service lines, transformer, meter, and connections with Electrical Plans and local utility provider. Contractor shall verify both location and availability of service prior to the start of construction.

Coordinate site lighting, signage wiring, conduit locations, connections, etc. with electrical plans. Notify Engineers of any potential conflicts.

Know what's below. Call before you dig.

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

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28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0069 | BURKHARDTINC.COM
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Design: NDT	Proj: 26143
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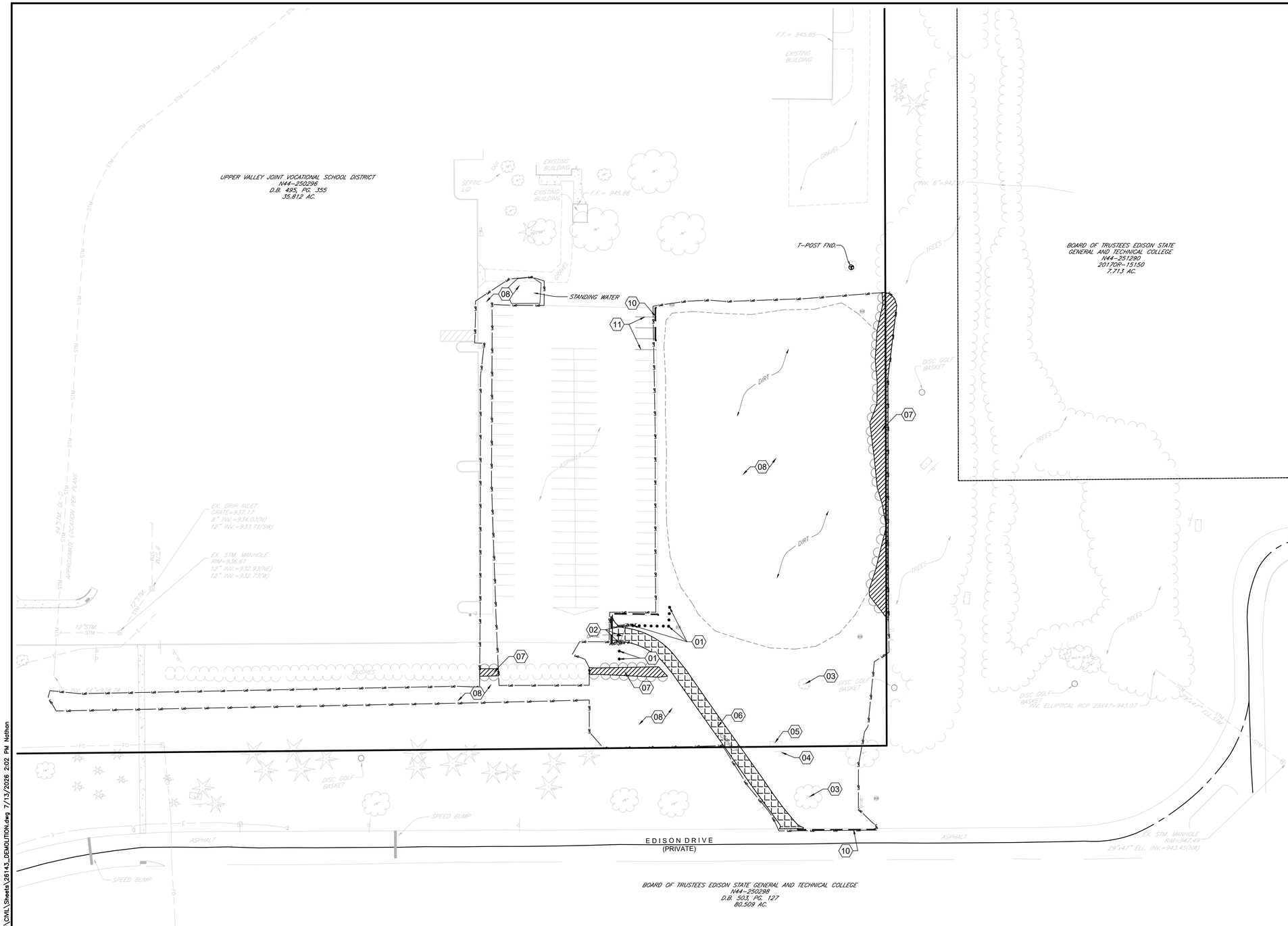
Date: 07.17.2026

Sheet: GENERAL NOTES

Sheet No.: C-0.1



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

DEMOLITION KEYNOTES

01 EX. BOLLARD - TO BE REMOVED

02 EX. GATE AND POSTS - TO BE REMOVED

03 EX. TREE - TO BE PROTECTED

04 EX. SIGN - TO BE PROTECTED

05 EX. CONC. PAD - TO BE PROTECTED

06 EX. ASPHALT - TO BE REMOVED

07 EX. VEGETATION - TO BE REMOVED

08 CLEAR & GRUB AREA

09 EX. LARGE ROCK - TO REMAIN

10 SAWCUT EX. ASPHALT - TO CREATE CLEAN EDGE

11 EX. STRIPING - TO BE REMOVED

DEMO LEGEND

- EX. ASPHALT PAVEMENT - TO BE REMOVED
- EX. BRUSH - TO BE REMOVED
- LIMITS OF DISTURBANCE
- SAWCUT EX. PAVEMENT

EXISTING LEGEND

- SOIL BORING
- PROPANE GAS TANK
- SANITARY CLEANOUT
- SANITARY MANHOLE
- CATCH BASIN
- CATCH BASIN
- DOWNSPOUT (DRAIN)
- FIRE HYDRANT
- ELECTRIC BOX
- LIGHT POLE
- FIBER OPTIC BOX
- BOLLARD
- FENCE POST
- SIGN
- DOUBLE POST SIGN
- BUSH/SHRUB
- TREE W/SIZE
- EVERGREEN TREE

EXISTING LINE LEGEND

- EX. EDGE OF GRAVEL
- EX. STORM SEWER
- EX. ELECTRIC LINE
- EX. FIBER OPTIC LINE
- EX. TELEPHONE LINE
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR
- EX. TREE LINE

EXISTING CONDITIONS SURVEY NOTES

1. Existing conditions and topography are based on a field survey of the subject property completed by Burkhardt Engineering in June 2026.
2. All data was collected in NAD83 Ohio SOUTH State Plane Coordinates and all elevations reference datum NAVD88.
3. Existing utilities, as depicted on this plan, have been compiled from a combination of observed field evidence, record drawings obtained from the various utility providers, ground penetrating radar and electromagnetic locations. Underground utility information depicted hereon cannot be guaranteed.
4. This topographic survey is not a boundary survey as defined by the Ohio Administrative Code 4733-37.

ASCE SUBSURFACE UTILITY DEPICTION (ASCE 38-22)

QL-A : Precise horizontal and vertical location of utility by the actual exposure and subsequent measurement of subsurface utility.

QL-B : Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utility. (811 or Utility Location Service)

QL-C : Information obtained by surveying and plotting visible above-ground utility features and using professional judgement.

QL-D : Information derived from existing records or oral recollections.

*Utilities depicted are QL-C unless noted otherwise.
**Utilities labeled QL-B located by USIC, LLC. on April, 1, 2026.

811 Know what's below. Call before you dig.

STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

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UPPER VALLEY CAREER CENTER PARKING EXPANSION

8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

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Date: 07.17.2026

Sheet: EX. COND. & DEMO PLAN (SOUTH)

Sheet No.: C-1.0

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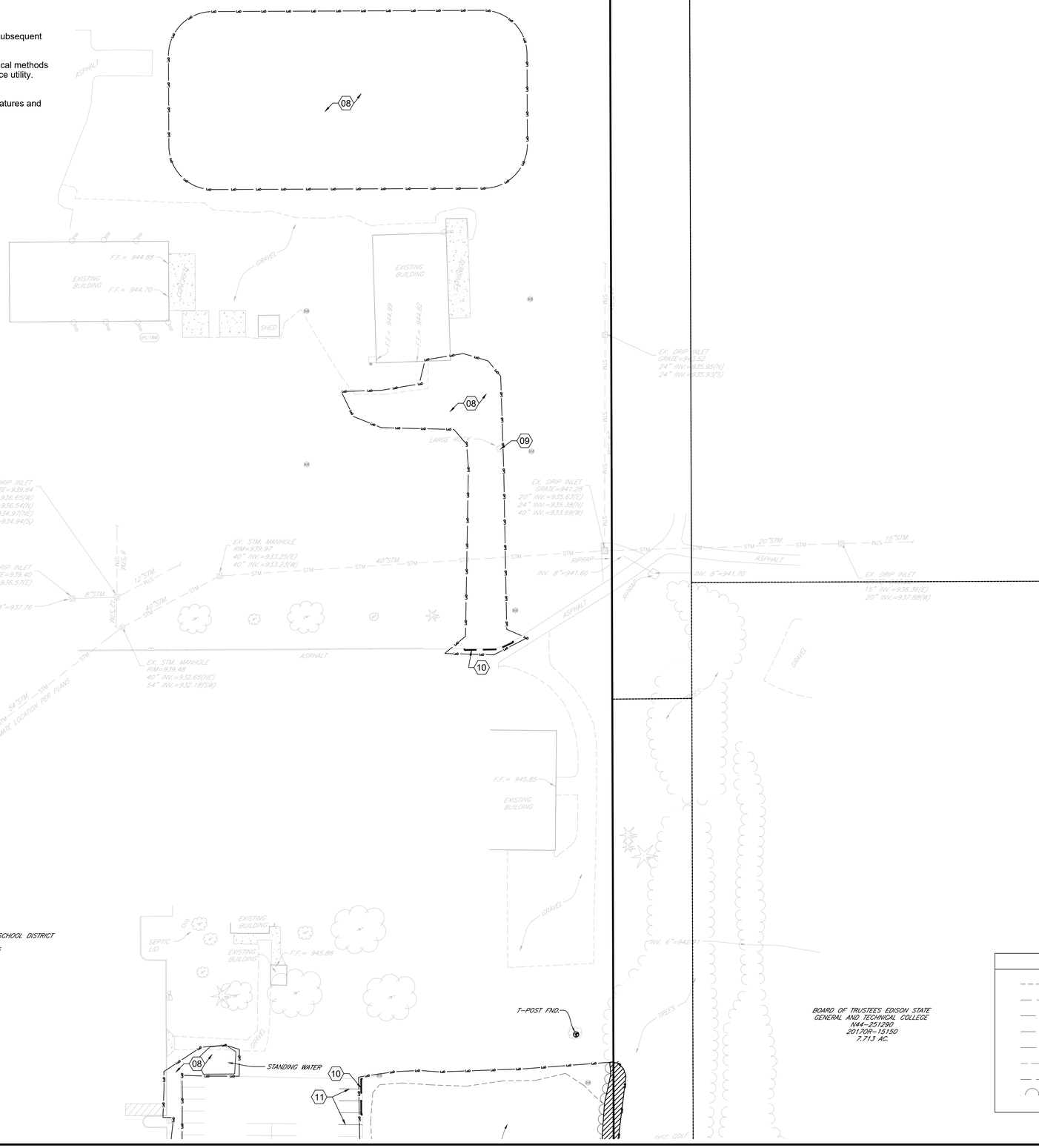

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STATE OF OHIO
STEVEN R. FOX
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REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
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Design: NDT	Proj: 26143
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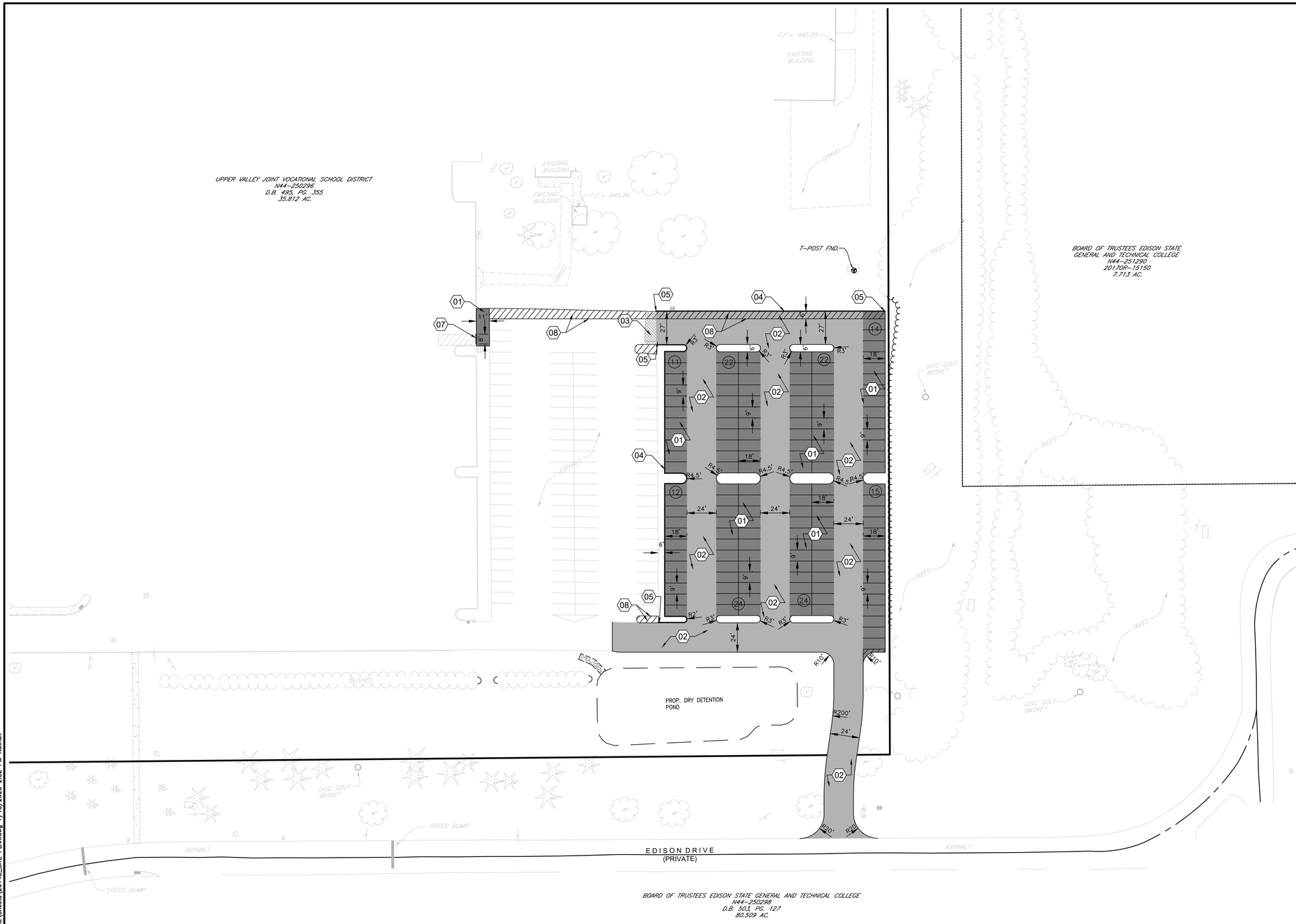
Date: 07.17.2026

Sheet: EX. COND. & DEMO PLAN (NORTH)

Sheet No.: C-1.1



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

SITE KEYNOTES

01 STANDARD DUTY ASPHALT PAVEMENT
- PER DETAIL / SHEET C-5.0

02 HEAVY DUTY ASPHALT PAVEMENT
- PER DETAIL / SHEET C-5.0

03 MILL AND RESURFACE ASPHALT PAVEMENT
- PER DETAIL / SHEET C-5.0

04 BARRIER CURB
- PER DETAIL / SHEET C-5.0

05 CURB END TAPER
- PER DETAIL / SHEET C-5.0

06 GRAVEL PAVEMENT
- PER DETAIL / SHEET C-5.0

07 DEPRESSED CURB

08 PARKING STRIPE / HATCH
- 4" WIDE PAINTED STRIPES.
- HATCHING TO BE AT 45 DEGREE AND 2'-0" O.C.
- STRIPING ON CONCRETE PAVEMENT TO BE PAINTED WHITE.

09 EXCESS DIRT AREA
- DIRT TO BE USED FOR EXCAVATOR TRAINING
- COORDINATE WITH OWNER FOR EXACT PLACEMENT AND QUANTITY

SITE & PAVEMENT LEGEND

(4) NUMBER OF PARKING SPACES

PROP. RIP-RAP

PROP. STANDARD-DUTY ASPHALT

PROP. HEAVY-DUTY ASPHALT

MILL AND RESURFACE

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

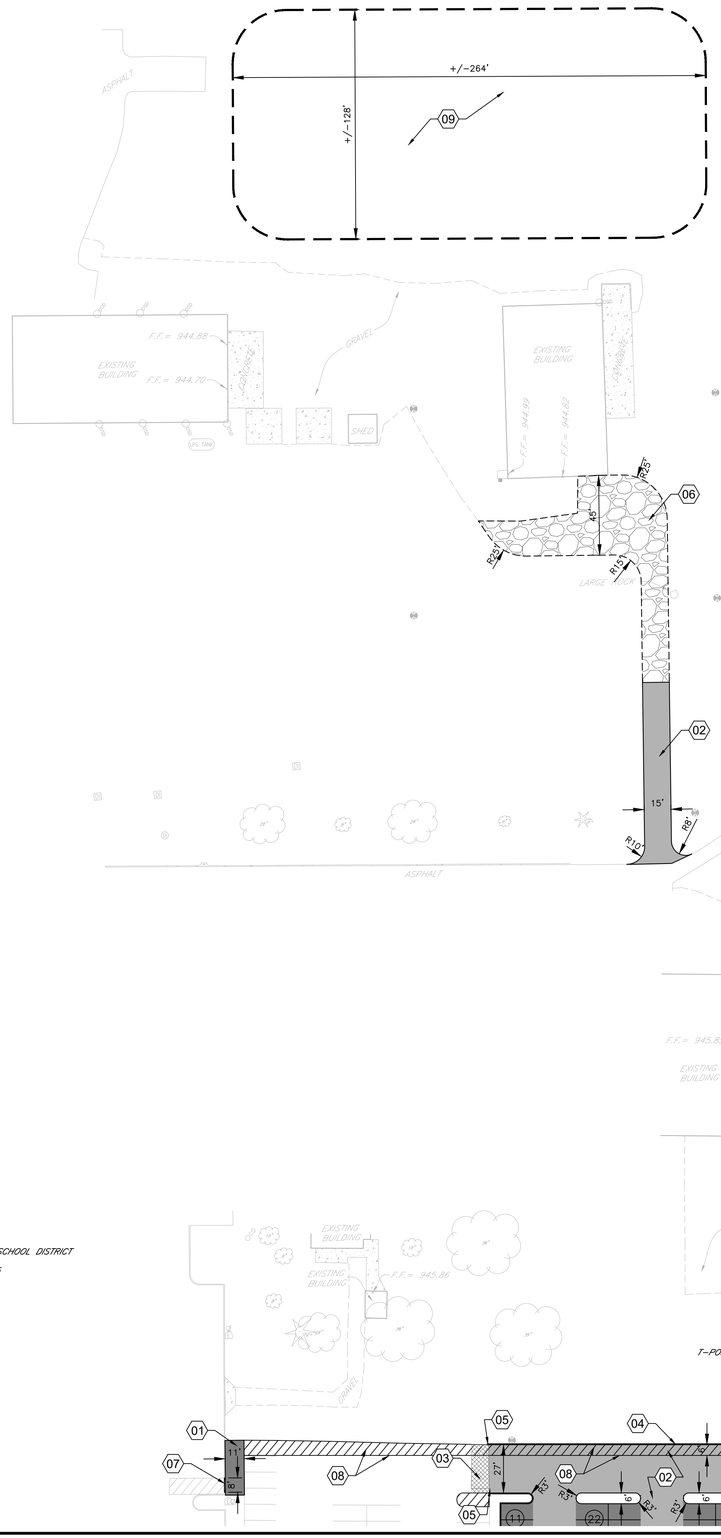
BURKHARDT ENGINEERS • SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SOUTH SITE PLAN

Sheet No.: C-2.0



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

SITE KEYNOTES

01 STANDARD DUTY ASPHALT PAVEMENT
- PER DETAIL / SHEET C-5.0

02 HEAVY DUTY ASPHALT PAVEMENT
- PER DETAIL / SHEET C-5.0

03 MILL AND RESURFACE ASPHALT PAVEMENT

04 BARRIER CURB
- PER DETAIL / SHEET C-5.0

05 CURB END TAPER
- PER DETAIL / SHEET C-5.0

06 GRAVEL PAVEMENT
- PER DETAIL / SHEET C-5.0

07 DEPRESSED CURB

08 PARKING STRIPE / HATCH
- 4" WIDE PAINTED STRIPES.
- HATCHING TO BE AT 45 DEGREE AND 2'-0" O.C.
- STRIPING ON CONCRETE PAVEMENT TO BE PAINTED WHITE.

09 EXCESS DIRT AREA
- DIRT TO BE USED FOR EXCAVATOR TRAINING
- COORDINATE WITH OWNER FOR EXACT PLACEMENT AND QUANTITY

SITE & PAVEMENT LEGEND

- (4) NUMBER OF PARKING SPACES
- PROP. RIP-RAP
- PROP. STANDARD-DUTY ASPHALT
- PROP. HEAVY-DUTY ASPHALT
- MILL AND RESURFACE

811 Know what's below. Call before you dig.

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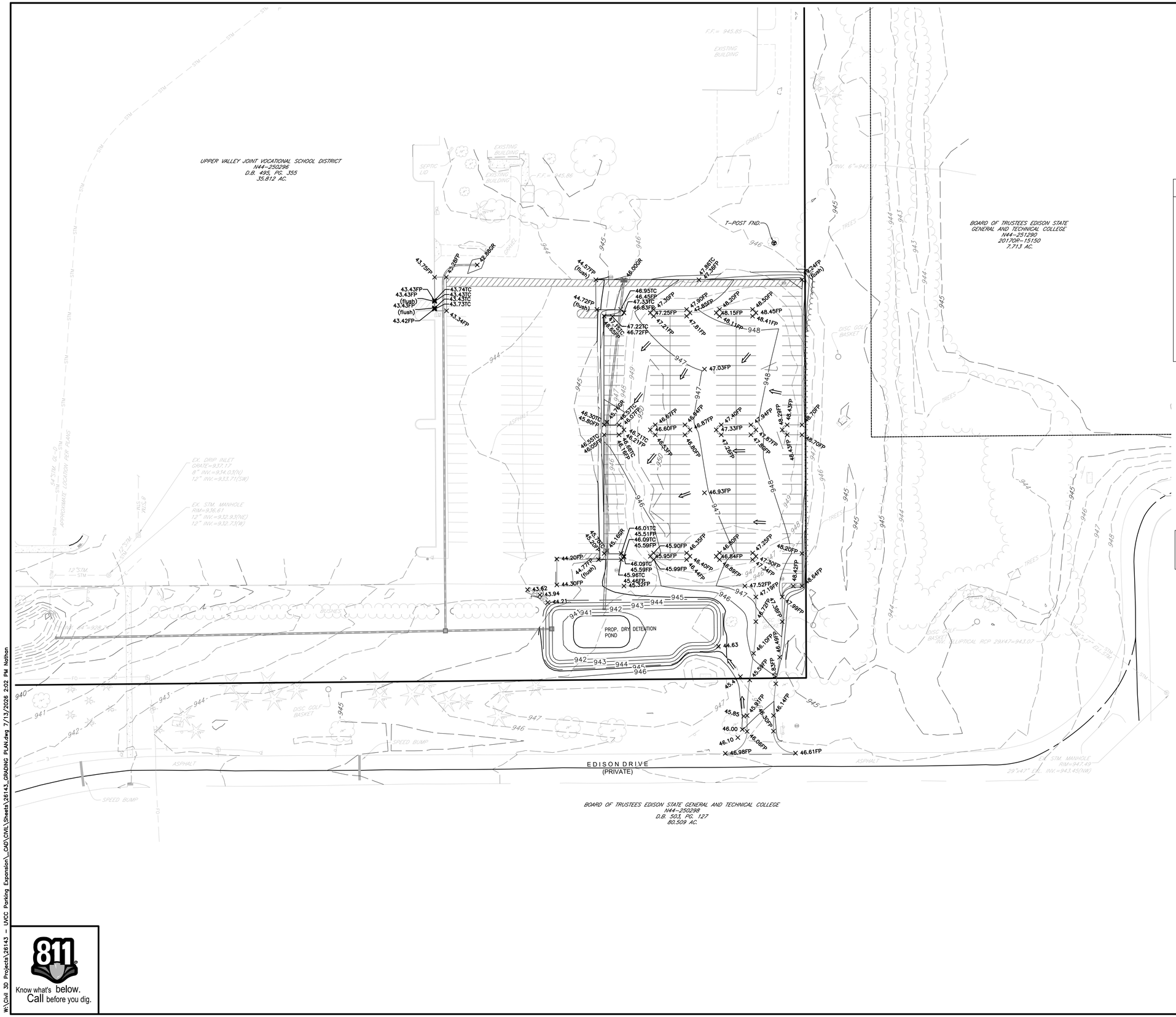
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: NORTH SITE PLAN

Sheet No.: C-2.1



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

GRADING LEGEND

× 100.00TC	PROP. TOP OF CURB ELEVATION
× 100.00FP	PROP. FINISHED PAVEMENT ELEVATION
× 100.00GR	PROP. TOP OF GRATE/RIM ELEVATION
× 100.00	PROP. SPOT ELEVATION
⟹	PROP. FLOW ARROW
1000	PROP. CONTOUR - INDEX
1000	PROP. CONTOUR - INTERMEDIATE
1000	EX. CONTOUR - INDEX
1000	EX. CONTOUR - INTERMEDIATE

SPOT ELEVATIONS PROVIDED ON THIS PLAN ARE LOCATED AT HORIZONTAL GEOMETRY CHANGES (CORNERS, CURVES/RADII, END POINTS, ETC.) AND VERTICAL GRADE BREAKS (HIGH POINTS, LOW POINTS, AND SLOPE CHANGES). ADDITIONAL SPOT ELEVATIONS MAY BE PROVIDED UPON REQUEST.

811 Know what's below. Call before you dig.

W:\Civil 3D Projects\26143 - UVCC Parking Expansion_CAD\CIVIL\Sheets\26143_GRADING PLAN.dwg 7/13/2026 2:02 PM Nathan

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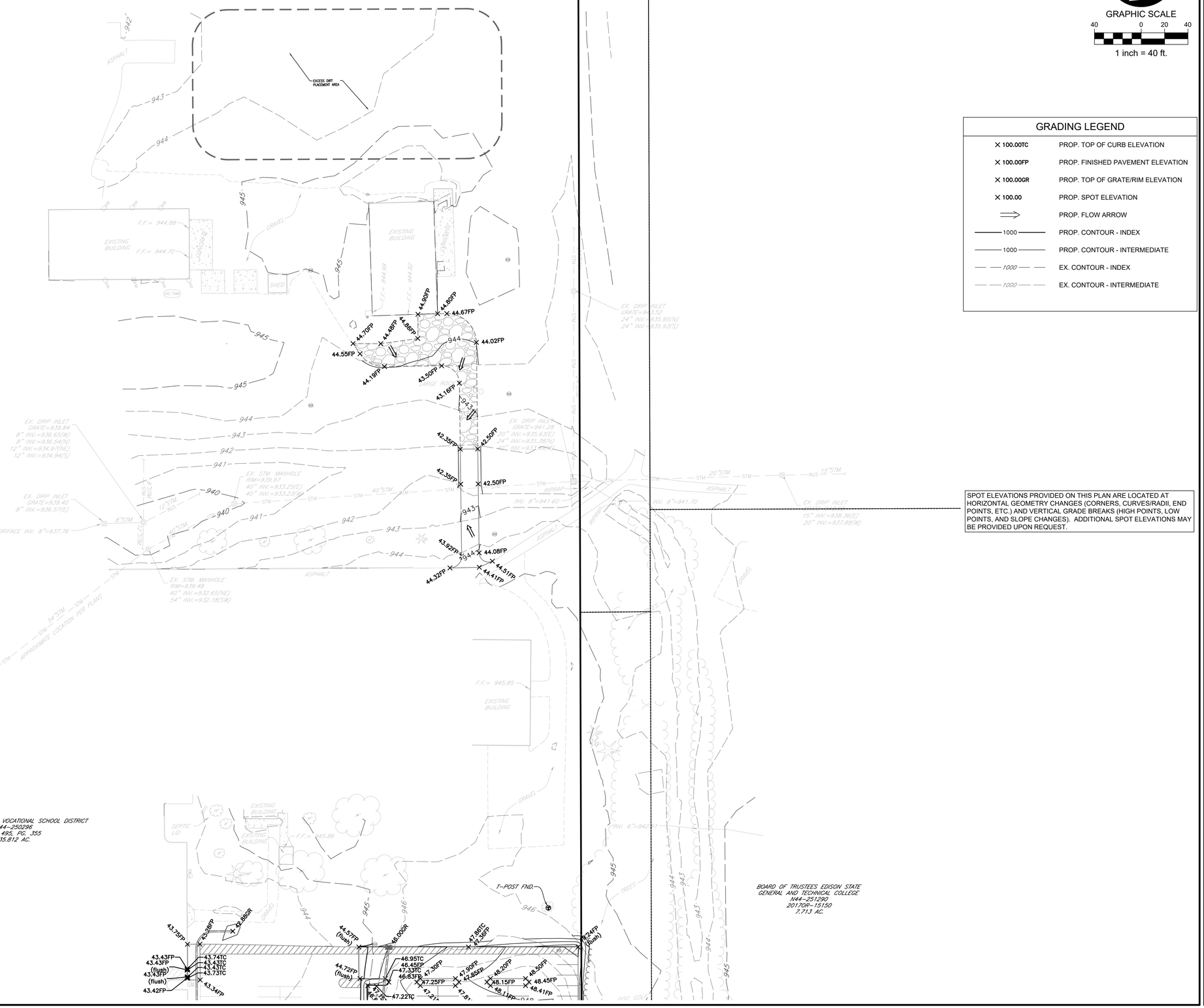
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SOUTH GRADING PLAN

Sheet No.: C-3.0



GRAPHIC SCALE

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× 100.00TC	PROP. TOP OF CURB ELEVATION
× 100.00FP	PROP. FINISHED PAVEMENT ELEVATION
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Design: NDT	Proj: 26143
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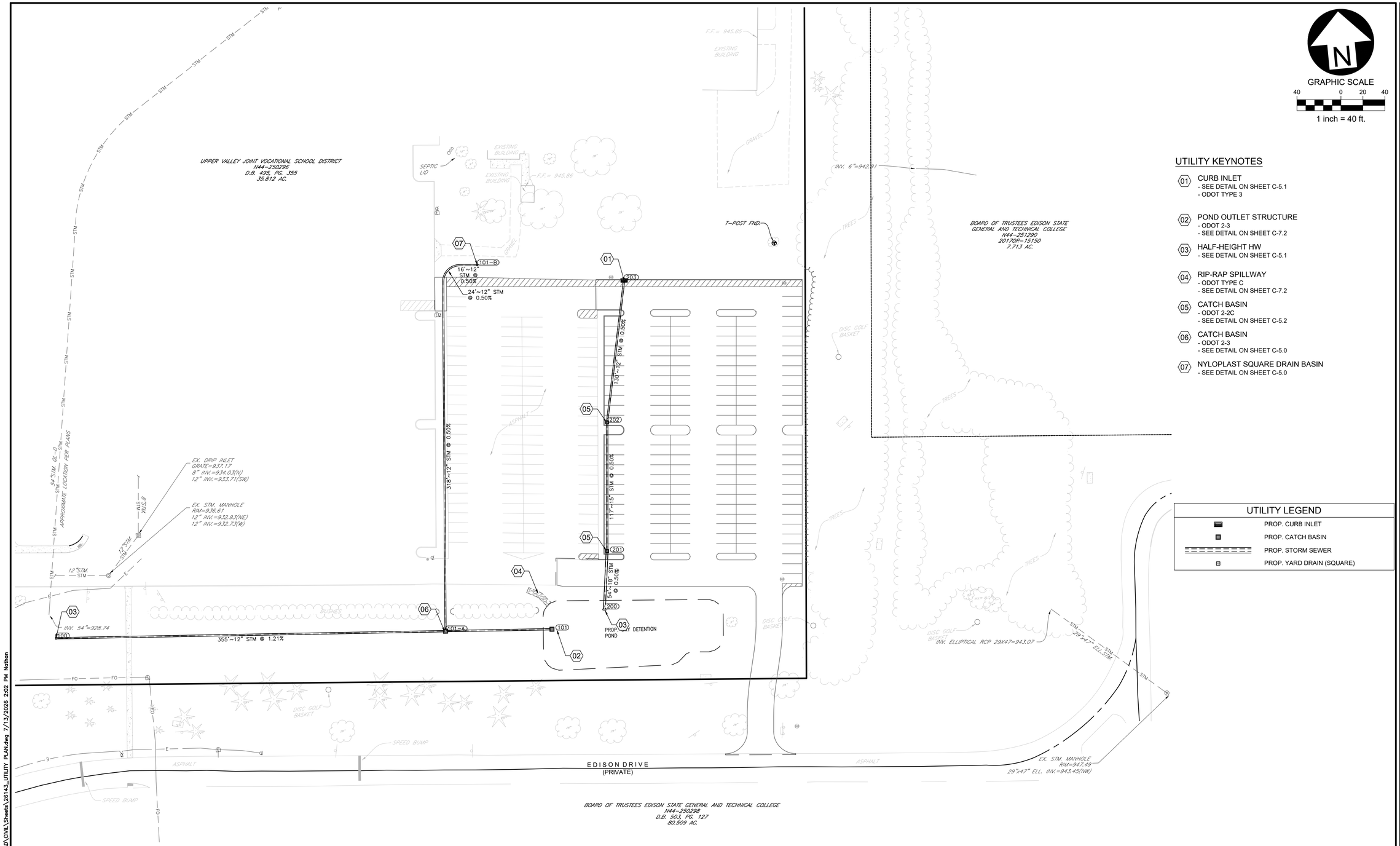
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: NORTH GRADING PLAN

Sheet No.: C-3.1



GRAPHIC SCALE

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1 inch = 40 ft.

UTILITY KEYNOTES

01 CURB INLET
- SEE DETAIL ON SHEET C-5.1
- ODOT TYPE 3

02 POND OUTLET STRUCTURE
- ODOT 2-3
- SEE DETAIL ON SHEET C-7.2

03 HALF-HEIGHT HW
- SEE DETAIL ON SHEET C-5.1

04 RIP-RAP SPILLWAY
- ODOT TYPE C
- SEE DETAIL ON SHEET C-7.2

05 CATCH BASIN
- ODOT 2-2C
- SEE DETAIL ON SHEET C-5.2

06 CATCH BASIN
- ODOT 2-3
- SEE DETAIL ON SHEET C-5.0

07 NYLOPLAST SQUARE DRAIN BASIN
- SEE DETAIL ON SHEET C-5.0

UTILITY LEGEND

- PROP. CURB INLET
- PROP. CATCH BASIN
- PROP. STORM SEWER
- PROP. YARD DRAIN (SQUARE)

Know what's below. Call before you dig.

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Design: NDT	Proj: 26143
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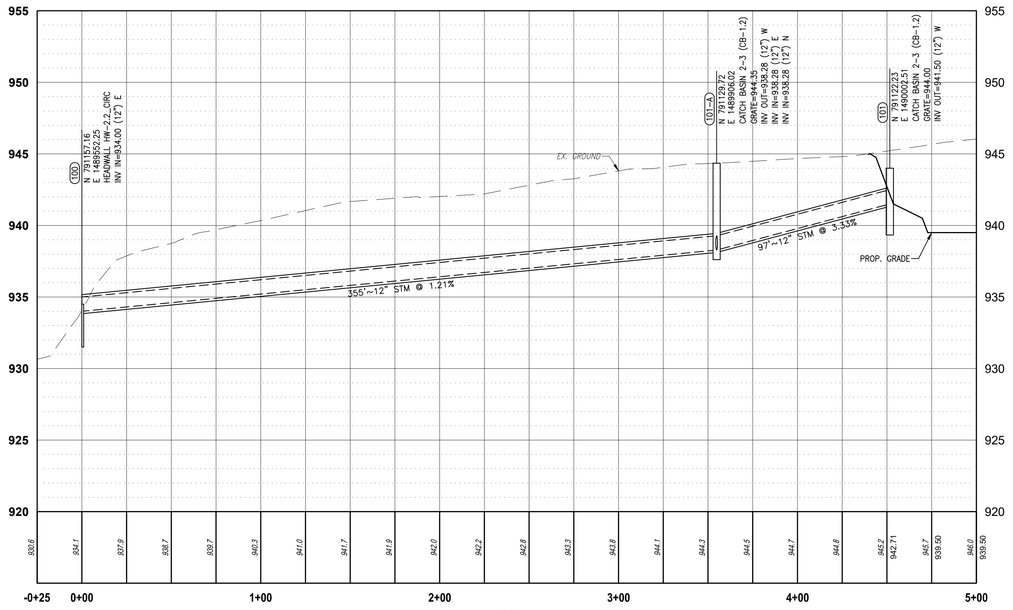
Check: SRF	Tab:
Scale: SEE SHEET	

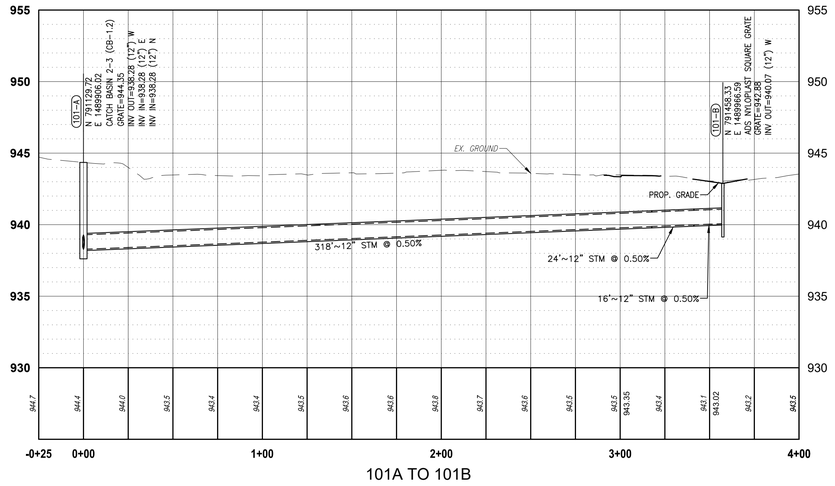
Date: 07.17.2026

Sheet: UTILITY PLAN

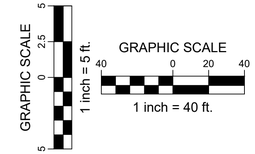
Sheet No.: C-4.0

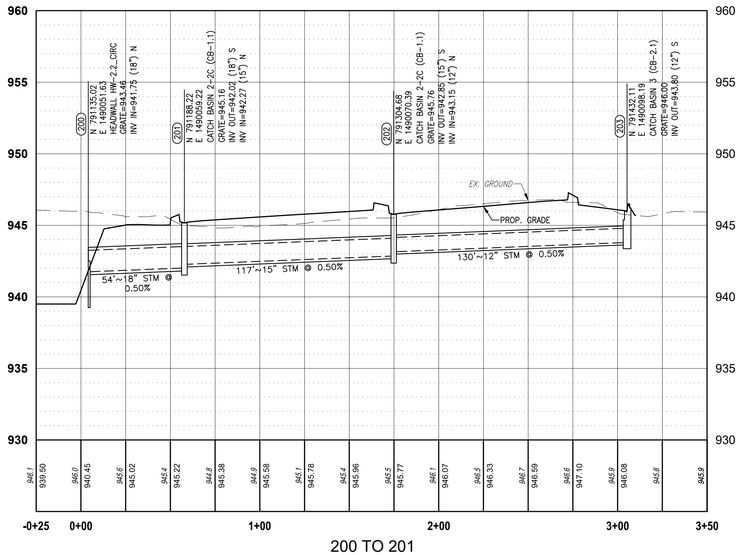


100 TO 101



101A TO 101B





200 TO 201

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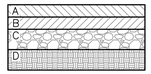
Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: UTILITY PROFILES

Sheet No.: C-4.1

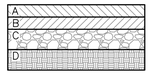
KEY
A – 1.5" SURFACE COURSE ASPHALT CONCRETE
ODOT ITEM 448 – TYPE 1, PG64–22
B – 1.5" INTERMEDIATE COURSE ASPHALT CONCRETE
ODOT ITEM 448 – TYPE 2, PG64–22
C – 8" AGGREGATE BASE
ODOT ITEM 304
D – COMPACTED SUBGRADE
ODOT ITEM 204



PAVEMENT SECTION IS TO BE OWNER & CONTRACTOR APPROVED. NO TESTING OR DESIGN WAS PERFORMED BY CIVIL ENGINEER IN SELECTING THIS SECTION & NO GEOTECHNICAL REPORT (INCLUDING PAVEMENT RECOMMENDATIONS) WAS PROVIDED.

STANDARD-DUTY PAVEMENT SECTION
NOT TO SCALE

KEY
A – 1.5" SURFACE COURSE ASPHALT CONCRETE
ODOT ITEM 448 – TYPE 1, PG64–22
B – 2.5" INTERMEDIATE COURSE ASPHALT CONCRETE
ODOT ITEM 448 – TYPE 2, PG64–22
C – 10" AGGREGATE BASE
ODOT ITEM 304
D – COMPACTED SUBGRADE
ODOT ITEM 204



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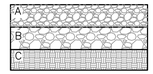
HEAVY-DUTY PAVEMENT SECTION
NOT TO SCALE

KEY
A – 4" THICK CRUSHED LIMESTONE (COMPACTED)
B – 10" THICK COMPACTED AGGREGATE BASE
ODOT ITEM 304
C – COMPACTED SUBGRADE
ODOT ITEM 204



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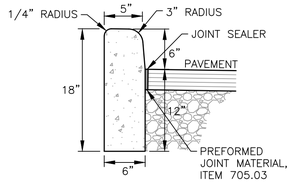
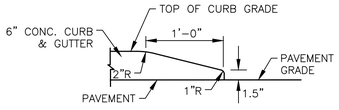
GRAVEL PAVEMENT SECTION
NOT TO SCALE



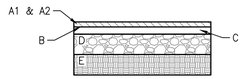
NOTES:
1. ODOT TYPE 6 CURB
2. PROVIDE A SMOOTH AND EVEN FINISH PLUS ROUNDED EDGING TO ALL EXPOSED SURFACES.

BARRIER CURB DETAIL
NOT TO SCALE



CURB END TAPER DETAIL
NOT TO SCALE

KEY
A1 – 1.5" PAVEMENT PLANING
ODOT ITEM 254
A2 – 1.5" SURFACE COURSE ASPHALT CONCRETE
ODOT ITEM 448 – TYPE 1, PG64–22
B – TACK COAT, 0.10 GAL./SY
ODOT ITEM 407
C – EXISTING ASPHALT PAVEMENT
D – EXISTING AGGREGATE BASE
E – EXISTING SUBGRADE



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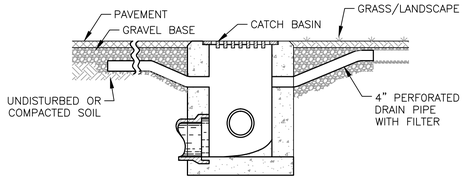
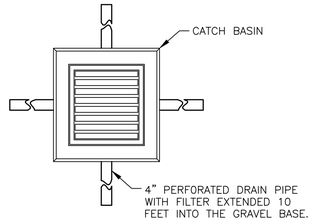
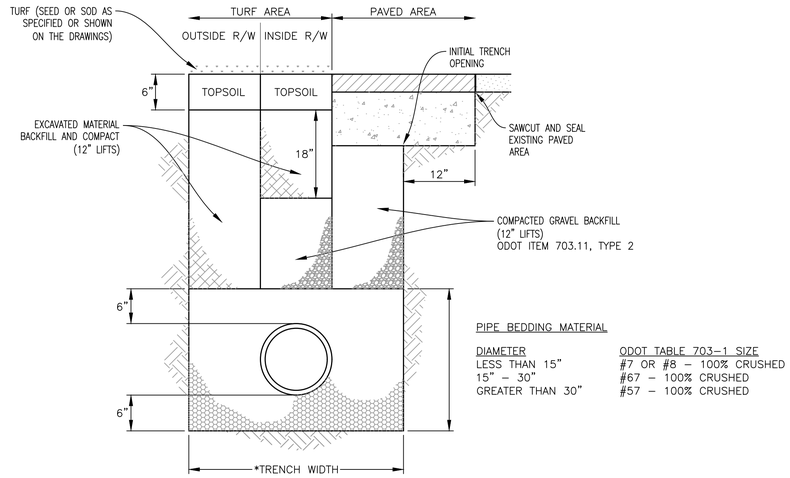
MILL & OVERLAY PAVEMENT SECTION
NOT TO SCALE





CATCH BASIN FINGER DRAIN DETAIL
NOT TO SCALE

NOTE: ALL RESTORATION MUST COMPLY WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION



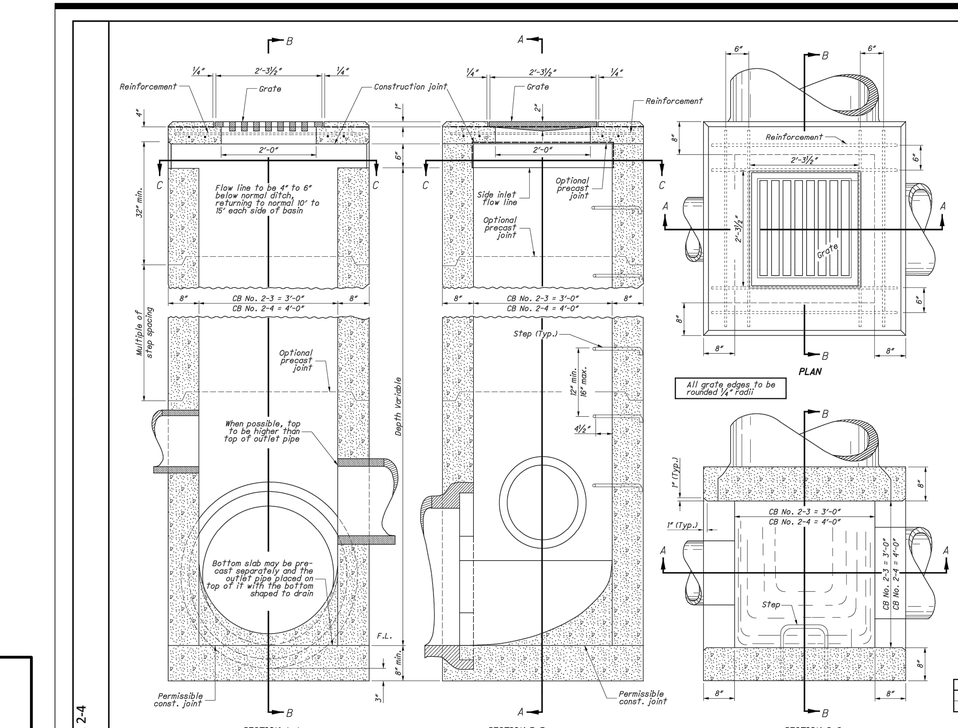
PIPE BEDDING MATERIAL

DIAMETER	ODOT TABLE 703–1 SIZE
LESS THAN 15"	#7 OR #8 – 100% CRUSHED
15" – 30"	#67 – 100% CRUSHED
GREATER THAN 30"	#57 – 100% CRUSHED

*TRENCH WIDTH

DIAMETER	TRENCH WIDTH
15" OR LESS	O.D. + 18"(MIN.)
GREATER THAN 15"	(O.D.X1.25) + 18"(MIN.)

PIPE BEDDING AND TRENCH DETAIL FOR THERMOPLASTIC PIPE
NOT TO SCALE



CATCH BASIN	OUTLET PIPE SIZE
2-3	12" to 21"
2-4	30" to 36"

NOTES

GENERAL: *Catch Basins 2-3 and 2-4 are not intended for traffic bearing applications.*

GRATE: *See details on SCD CB-2-2A, 2-2B, 2-2C.*

If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-4859-C or East Jordan No. 5110 type M3 bicycle safe grates or approved equals.

Cast the following text into the top of the grate:

"DUMP NO WASTE" and "DRAINS TO WATERWAY"

Print text in bold, capital letters at least ½" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

WALLS: *Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls at least 6" thick with sufficient reinforcement to permit shipping and handling without damage.*

STEPS: *Provide steps where the depth exceeds 6'. Meet the requirements of SCD MH-1.*

CONCRETE: *Provide Class QC1 concrete for cast-in-place structures. When precast, provide concrete meeting the requirements of CMS 706.13. Mark the catch basin number on the structure.*

REINFORCEMENT: *Provide #4 bars spaced at 6" center to center for Top reinforcement. For Catch Basin No. 2-3 use eight bars, and for Catch Basin No. 2-4 use twelve bars.*

INLETS OVER 12 FEET DEEP: *Use precast or cast-in-place concretes reinforce with #4 bars on 12" centers both vertically and horizontally with 2" clearance from inside wall face.*

PRECAST BASE: *If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the Top elevation.*

LOCATION AND ELEVATION: *When given on the plans, the location and the elevation are at the Top center of the grate. When side openings are provided, the elevation is at The flow line of the side inlet.*

MINIMUM DEPTH: *The minimum depth of CB No. 2-3 and CB No. 2-4 is the outside diameter (O.D.) of The outlet pipe plus 7".*

OPENINGS: *Ensure pipe openings are the O.D. of The pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.*

SIDE INLETS: *Provide inlets on both sides of the No. 2-3 and 2-4 catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use catch basins with side inlets within The clear Zone.*

PAYMENT: *All materials and labor, including excavation and backfill, are paid for under* ***Item 611 - Catch Basin, No. 2-3 or Item 611 - Catch Basin No. 2-4.***

OFFICE OF HYDRAULIC ENGINEERING

REVISIONS
7-15-2002
7-15-2005
7-20-2012
1-18-2013
1-15-2016
7-16-2021
1-20-2023
7-19-2024

STEP ENGINEER
K. Brandon

STATE OF OFFICE OF HYDRAULIC ENGINEERING ADMINISTRATOR
Jeffery E. Syar

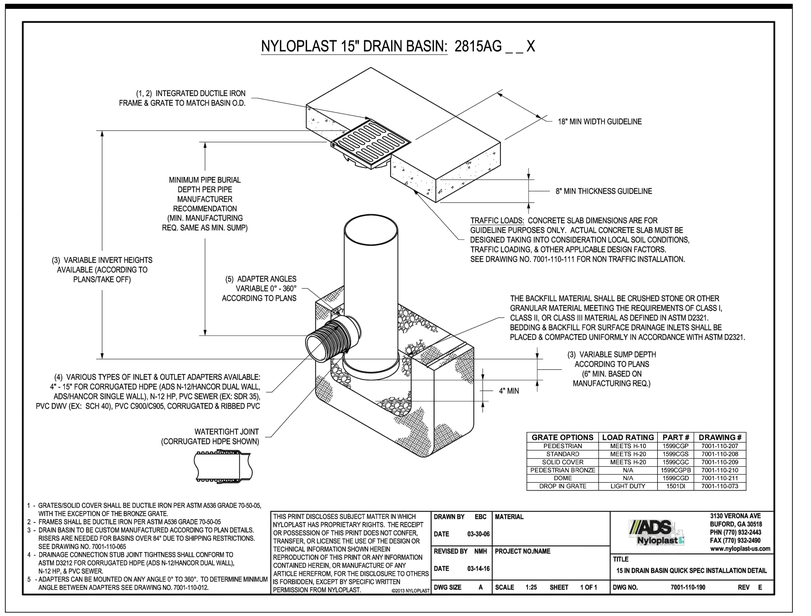
STANDARD HYDRAULIC CONSTRUCTION DRAWING
CATCH BASIN No.'S 2-3, 2-4

DESIGN AGENCY

SCD NUMBER
CB-2-3, 2-4

SHEET P.1 | TOTAL 1

CB-2-3, 2-4



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-DI3

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY	EBC
DATE	03-30-06
REVISED BY	NMH
DATE	03-14-16
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:25
SHEET	1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-190 REV E

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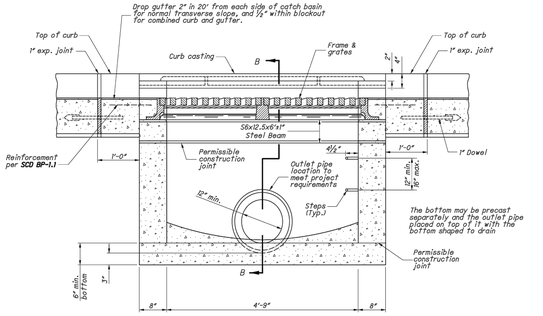
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT ENGINEERS ▼ SURVEYORS LLC
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0660 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

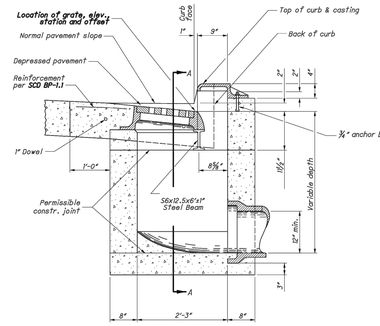
Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	
Date: 07.17.2026	

Sheet: SITE DETAILS

Sheet No.: C-5.0

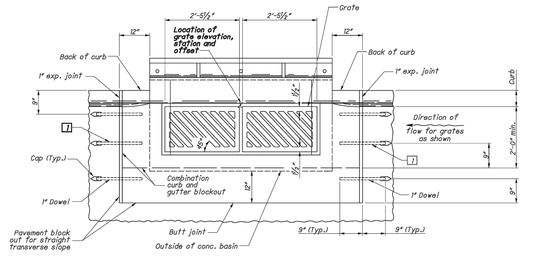


SECTION A-A



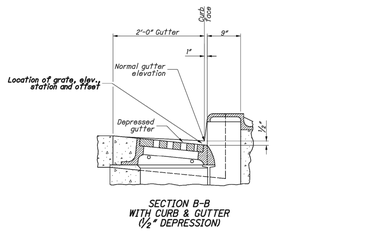
SECTION B-B WITH CURB (2" DEPRESSION)

[1] Dowel location for curb & gutter



PLAN OF CATCH BASIN AND PAVEMENT JOINTS

CATCH BASIN No. 3



SECTION B-B WITH CURB & GUTTER (½" DEPRESSION)

See Sht. 2/2 for NOTES

OFFICE OF HYDRAULIC ENGINEERING

REVISIONS
1-18-2013
1-15-2016
7-20-2018
1-15-2021
7-16-2021
7-19-2024
1-16-2026

STDS ENGINEER
K. Brandon

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATION
Jeffery E. Syar

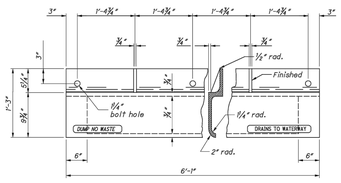
STANDARD HYDRAULIC CONSTRUCTION DRAWING
CATCH BASIN No. 3

DESIGN AGENCY

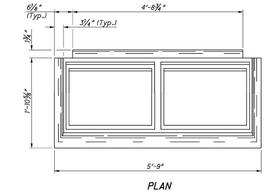
SCD NUMBER
CB-3

SHEET P.1 | TOTAL 2

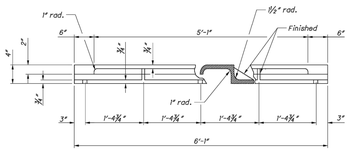
CB-3



PLAN & SECTION

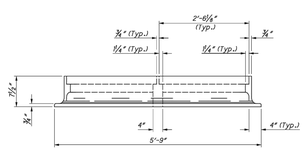


PLAN

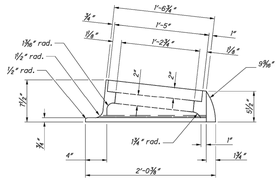


FRONT VIEW & SECTION

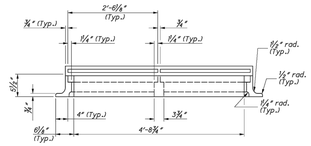
CURB CASTING



FRONT VIEW



END VIEW FRAME



BACK VIEW

FRAME

NOTES

GRATES: Two required. For details, see **SCD CB-3A.** Provide Grate "A" unless the plans specifically require the diagonal grate. If the diagonal grate is specified, place it so that the diagonal bars direct drainage flow toward the curb.

CASTINGS: Provide a design essentially the same and equally as strong as the one shown. Minimum weight:

Curb Casting . . . . . 305 lbs.
Two Grates . . . . . 254 lbs.
Frame . . . . . 580 lbs.
Two Grate "A" . . . . 210 lbs.

Lighter weight frames and grates that meet the requirements of CMS 711.14 may also be provided. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

Cast the following text into the top of the curb casting:

"DUMP NO WASTE" and **"DRAINS TO WATERWAY"**

Print text in bold, capital letters at least ¾" high. See example on Plan & Section. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

BEARING AREAS: Fit and finish the frame and grate to provide a firm and even seat. No projections are permitted on bearing areas, and the grate must seat in its frame without rocking.

WALLS: Provide Class QC1 concrete for cast-in-place structures. When used in place of concrete, construct brick side walls with 8" nominal thickness.

PRECAST CONSTRUCTION: Permitted, except for the apron. Provide concrete meeting the requirements of CMS 706.13. Provide precast walls at least 6" thick with sufficient reinforcement to permit shipping and placement without damage. Reduce the wall thickness from the outside. Mark the catch basin number on the structure.

STEPS: Provide steps where depth exceeds 6'. Meet the requirements of **SCD MH-1.**

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement or gutter blockout. See **SCD BP-2.2** for dowel details.

BLOCKOUT: Pave blockouts with Class QC1 concrete in PCC pavement or gutter. Blockouts are paid for as part of the pavement or gutter with no deduction in pavement, curb or gutter quantities because of the castings. Cast a Class QC1 concrete apron in place, the size of the 2'-0" gutter blockout, in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. Provide the 1" expansion joint in the curb for all curb types with no deduction made in curb quantities.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under **Item 611 - Catch Basin, No. 3.**

OFFICE OF HYDRAULIC ENGINEERING

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1-16-2026

STDS ENGINEER
K. Brandon

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATION
Jeffery E. Syar

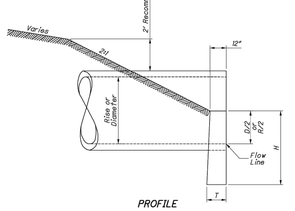
STANDARD HYDRAULIC CONSTRUCTION DRAWING
CATCH BASIN No. 3

DESIGN AGENCY

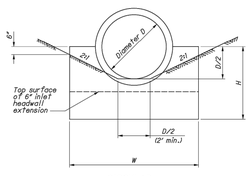
SCD NUMBER
CB-3

SHEET P.2 | TOTAL 2

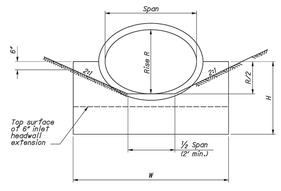
CB-3



PROFILE



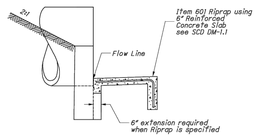
CIRCULAR



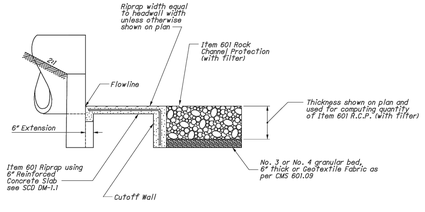
ELLIPTICAL

CONCRETE PIPE

See Sheet 2 of 2 for Pipe Tables and NOTES.



INLET CHANNEL PROTECTION DETAIL



OUTLET CHANNEL PROTECTION DETAIL

OFFICE OF STRUCTURAL ENGINEERING

REVISIONS
07-30-2007
07-20-2012
01-18-2013
07-17-2015
01-15-2016
07-21-2017
07-20-2018

STDS ENGINEER

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATION

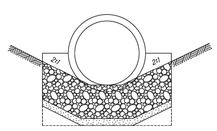
STANDARD BRIDGE DRAWING
HALF-HEIGHT HEADWALLS
FOR CONCRETE PIPE

DESIGN AGENCY

SCD NUMBER
HW-2.2

SHEET P.1 | TOTAL 2

HW-2.2



Riprap and rock channel protection width equal to headwall width unless otherwise shown on the plans. (Minimum width 4'-0".)

NOTES

GENERAL: Provide a riprap reinforced concrete slab according to SCD DM-1.1 if the pipe is depressed or it is specified in the plan. Payment for the slab is made per square yard of **Item 601 Riprap Using 6" Reinforced Concrete** Slab and includes the cost of the cutoff wall.

This drawing is for cast in place half-height concrete headwalls. Precast half-height headwalls are only approved for round conduits with a maximum conduit diameter of 78".

CONCRETE: Use 4000 psi compressive strength concrete for headwalls.

Concrete quantities are based on headwalls without the 6" extension under the channel protection.

C.I.P. HEADWALL FOR CONCRETE PIPE (English)

CIRCULAR					ELLIPTICAL					
D	W	H	T	Conc. cu. yds.	Rise	Span	W	H	T	Conc. cu. yds.
12"	2'-0"	3'-0"	12"	0.20	--	--	--	--	--	--
15"	2'-6"	3'-3"	12"	0.25	--	--	--	--	--	--
18"	3'-0"	3'-3"	12"	0.31	14"	23"	3'-0"	3'-2"	12"	0.29
21"	3'-6"	3'-4"	12"	0.37	19"	30"	3'-1"	3'-4"	12"	0.35
24"	4'-0"	3'-6"	12"	0.43	22"	34"	3'-11"	3'-5"	12"	0.38
27"	4'-6"	3'-8"	12"	0.49	24"	38"	4'-0"	3'-6"	12"	0.44
30"	5'-0"	3'-9"	12"	0.56	--	--	--	--	--	--
33"	5'-6"	3'-10"	12"	0.62	29"	45"	5'-2"	3'-8"	12"	0.49
36"	6'-0"	4'-0"	12"	0.69	--	--	--	--	--	--
39"	6'-6"	4'-2"	12"	0.77	34"	53"	5'-11"	4'-0"	14"	0.66
42"	7'-0"	4'-3"	12"	0.84	38"	60"	6'-10"	4'-2"	14"	0.82
48"	8'-0"	4'-6"	14"	1.09	43"	68"	8'-0"	4'-4"	16"	1.01
54"	9'-3"	4'-9"	14"	1.32	48"	76"	9'-2"	5'-0"	16"	1.34
60"	10'-6"	5'-6"	16"	1.93	53"	83"	10'-4"	5'-2"	18"	1.65
66"	11'-9"	5'-9"	18"	2.42	58"	91"	11'-6"	5'-5"	18"	1.97
72"	13'-0"	6'-0"	18"	2.77	63"	98"	12'-7"	5'-7"	20"	2.38
78"	14'-3"	6'-3"	20"	3.37	68"	106"	13'-9"	5'-10"	20"	2.69
84"	15'-6"	6'-6"	22"	4.05	72"	113"	14'-9"	6'-0"	22"	3.14
90"	16'-9"	6'-9"	22"	4.51	77"	121"	15'-11"	6'-3"	22"	3.49
96"	18'-0"	7'-0"	24"	5.31	82"	128"	17'-0"	6'-5"	24"	4.04
102"	19'-3"	7'-3"	26"	6.20	87"	136"	18'-2"	6'-8"	24"	4.84
108"	20'-6"	7'-6"	26"	6.78	92"	143"	19'-4"	6'-10"	26"	5.12
114"	21'-9"	7'-9"	28"	7.81	97"	151"	20'-6"	7'-1"	26"	5.42
120"	23'-0"	8'-0"	30"	8.93	106"	166"	22'-7"	7'-5"	28"	6.60
126"	24'-3"	8'-3"	30"	9.57	116"	180"	24'-10"	7'-10"	30"	7.99
132"	25'-6"	8'-6"	32"	10.84	--	--	--	--	--	--
144"	28'-0"	9'-0"	34"	13.00	--	--	--	--	--	--

OFFICE OF STRUCTURAL ENGINEERING

REVISIONS
07-30-2007
07-20-2012
01-18-2013
07-17-2015
01-15-2016
07-21-2017
07-20-2018

STDS ENGINEER

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATION

STANDARD BRIDGE DRAWING
HALF-HEIGHT HEADWALLS
FOR CONCRETE PIPE

DESIGN AGENCY

SCD NUMBER
HW-2.2

SHEET P.2 | TOTAL 2

HW-2.2

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT
ENGINEERS ▾ SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: NDT	Proj: 26143
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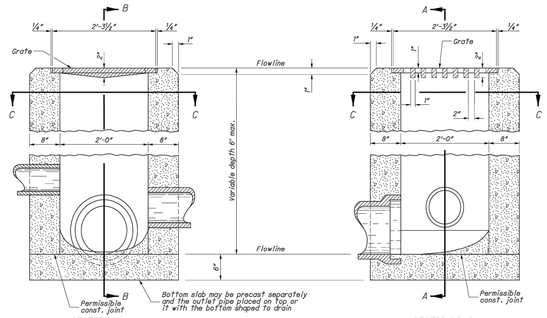
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

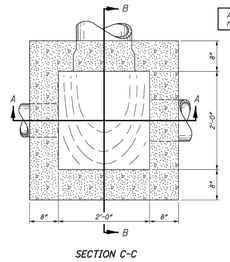
Sheet: SITE DETAILS

Sheet No.: C-5.1



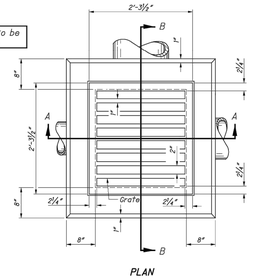
SECTION A-A

SECTION B-B



SECTION C-C

All grate edges to be rounded 1/4" radii.



PLAN

CATCH BASIN No. 2-2B

NOTES

CATCH BASINS 2-2A, 2-2B & 2-2C: This sheet depicts Catch Basin 2-2B & 2-2C. See Sheet 1 of 2 for Catch Basin 2-2A.

CB-2-2B GRATE: Furnish a design essentially the same and equally as strong as the one shown (see Construction Information table), or meet the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-4659-S or EJ No. 8110M3 1005110431 grates or approved equals.

Place grate elevation 4" to 6" below normal ditch and return to normal 10' to 15' each side of inlet.

CB-2-2C FRAME & GRATE: Where the catch basin is specified for use in a parking lot, furnish Neenah No. R-8118-ASG or EJ No. V-5622 (4582201O) frame and V-5620 (4562203O) grate or approved equals. If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-3405 grate or EJ No. 5250M 1005250331 grate or approved equals.

CB-2-2C APRON: On cast-in-place and precast units, provide a level surface on the catch basin 4" below the plan grate elevation for setting the frame and grate assembly. Install a 4000 psi concrete apron to encase and secure the frame with a minimum width not less than the thickness of the catch basin walls. Slope the apron to provide a local depression. Include a 1" expansion joint where the apron abuts PCC pavement. The cost is included in the catch basin bid price.

GRATE TEXT: Cast the following text into the top of the grate:

"DRAINS TO WATERWAY" and **"DUMP NO WASTE"**

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

WALLS: Construct cast-in-place walls with a nominal 8" thickness. Provide precast walls at least 6" thick with sufficient reinforcement to permit shipping and handling without damage.

CONCRETE: Provide Class QC1 concrete for cast-in-place structures. When precast, provide concrete meeting the requirements of CMS 706.13. Mark the catch basin number on the structure.

PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

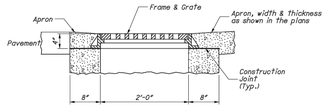
LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate.

MINIMUM DEPTH: The minimum depth of CB No. 2-2B is the outside diameter (O.D.) of the outlet pipe plus 4". The minimum depth of CB No. 2-2C is the outside diameter (O.D.) of the outlet pipe plus 8".

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per C&MS 611.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under **Item 611 - Catch Basin, No. 2-2B or 2C.**

CONSTRUCTION INFORMATION
Minimum weight of grate, 120 lbs.



CATCH BASIN No. 2-2C

OFFICE OF HYDRAULIC ENGINEERING

REVISIONS
1-15-2016
7-20-2018
7-19-2019
1-18-2013
7-16-2021
7-15-2022
1-20-2023
7-19-2024

STDS ENGINEER
K. Brandon

CHIEF, OFFICE OF HYDRAULIC ENGINEERING
Jeffery E. Syar

STANDARD HYDRAULIC CONSTRUCTION DRAWING
CATCH BASIN No.'s 2-2A, 2-2B, 2-2C

DESIGN AGENCY

SCD NUMBER
CB-2-2A,2B,2C

SHEET P.2 | TOTAL 2

CB-2-2A,2B,2C

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT ENGINEERS ▼ SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0660 | BURKHARDTINC.COM
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Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SITE DETAILS

Sheet No.: C-5.2

STORM WATER POLLUTION PREVENTION PLAN FOR:

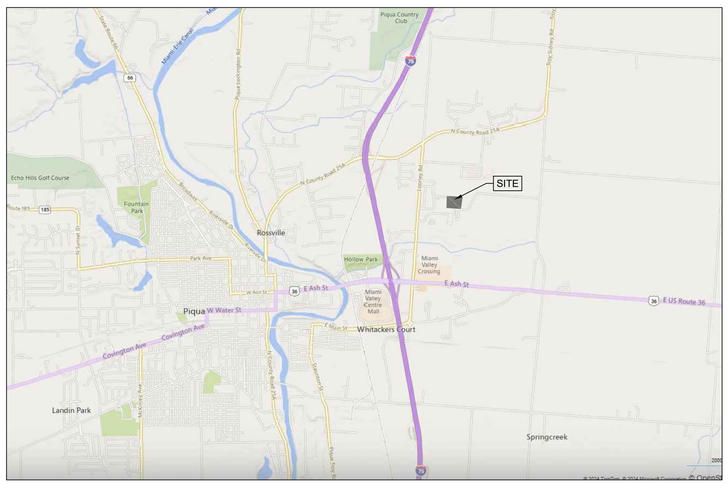
UPPER VALLEY CAREER CENTER

8811 CAREER DRIVE

CITY OF PIQUA, MIAMI COUNTY, OHIO

SHEET INDEX:

INDEX MAP
LATTITUDE: 39°36'55.32"N LONGITUDE: 84°14'07.02"W
NOT TO SCALE



VICINITY MAP
Not to Scale

OWNER:
Steve Verhoff
Phone: 937.778.1980 ext. 220
Email: verhoffs@uppervalleycc.org

DEVELOPER:
Steve Verhoff
Phone: 937.778.1980 ext. 220
Email: verhoffs@uppervalleycc.org

SITE CONTACT:
Pat Gibson
Phone: 937.778.1980 ext. 248
Email: gibsonp@uppervalleycc.org

GENERAL SUMMARY:
Estimated Start Date: 08/15/2026
Estimated Completion Date: 11/15/2026

Impervious Area Estimate: 1.39 Ac.
Percent Imperviousness Created: 44%

CHANGE ORDER SCHEDULE

CHANGE	PREPARED	DATE OF CHANGE	DESCRIPTION OF CHANGE	SHEET NO.	APPROVED	DATE OF APPROVAL

811 Know what's below. Call before you dig.

This is to certify that good engineering practices have been utilized in the design of this project and that all the minimum standards as delineated by the authority having jurisdiction, have been met, including those standards greater than minimum where, in my opinion, they are needed to protect the safety of the public. Any variances to the above standards are consistent with sound engineering practices and are not detrimental to the public safety and convenience. These variances have been listed herein.

**SEE UPPER RIGHT CORNER OF THIS SHEET

SIGNATURE AND SEAL DATE

STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

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Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SWPPP COVER SHEET

Sheet No.: C-6.0

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SITE DESCRIPTION

PROJECT NAME AND LOCATION
Upper Valley Career Center Parking Expansion
8811 Career Drive
City of Piqua, Miami County, Ohio

OWNER NAME, ADDRESS, AND EMAIL
Steve Verhoff
8811 Career Drive
City of Piqua, Miami County, Ohio
verhoffs@uppervalleycc.org

DESCRIPTION
(purpose and types of soil disturbing activities)
This project will consist of the construction of a new parking area, driveway and their associated utilities which are needed to service the facility.
Soil disturbing activities will include: clearing and grubbing; perimeter, and other erosion and sediment controls; grading; excavation and embankment, storm sewer, utilities, asphalt and gravel paving and final planting and seeding.

DISTURBED AREA CALCULATIONS AND RUNOFF COEFFICIENTS

Total Site Area = 35.81 Acres
Total Area Disturbed = 3.18 Acres

Pre-Developed Condition:
Percent Impervious = 43.7% (1.39 Acres)
Runoff Coefficient = 0.56

Post-Developed Condition:
Percent Impervious = 4.3% (0.06 Acres)
Runoff Coefficient = 0.33

*runoff coefficient used for impervious areas = 0.90
*runoff coefficient used for lawns = 0.30

SITE AREA
The site is approximately 35.81 acres of which 3.18 acres will be disturbed by construction activities.

EXISTING LAND USE
Land is currently open space with a small amount of pavement. Property is not known to have had hazardous or solid waste.

PROPOSED SITE DESCRIPTION (check one)

subdivision _____ (future)
commercial __x__
industrial _____
p.U.D. _____
other _____ (some existing development)

SOIL TYPES
Bs - Brookston Silty Clay Loam, fine texture, 0-2% slopes

CrA - Crosby Silt Loam, Southern Ohio Till Plain, 0-2% slopes

SEQUENCE OF MAJOR ACTIVITIES
The order of activities will be as follows:
1. Install perimeter controls
2. Clear and grub
3. Full site grading
4. Pile topsoil within silt fence perimeter
5. Stabilize denuded areas and stockpiles within 14 days of last construction activity in that area
6. Install utilities
7. Install inlet protection
8. Final grading and install permanent seeding
9. Reseed any disturbed areas and landscape site

NAME OF RECEIVING WATERS
The entire site shall ultimately drain into Garbry Creek.

GENERAL NOTES

1. All construction activities must comply with all local erosion/sediment control, waste disposal, sanitary and health regulations.
2. All erosion and sediment control practices must meet the standards and specifications of the ohio rainwater and land development handbook (2006).
3. Other erosion control items may be necessary due to environmental conditions. The contractor shall be responsible for installation and implementation of additional erosion control items, at the engineer's discretion.
4. Regular inspection and maintenance will be provided for all erosion and sediment control practices.
5. The contractor shall use erosion control measures as necessary to prevent sediment movement into areas designated as wetlands.
6. No solid or liquid waste shall be discharged into storm water runoff.
7. Additional erosion anad sediment control bmp's may be required as identified by the ms4 inspector.
8. All construction activities shall be greater than or equal to 50 feet from any state regulated waterway unless additional permitting is obtained.
9. There are no known wetlands or streams within the work area.
10. There is no known soil contamination within the work area.
11. No construction activities on this site are known to be subject to section 401 or anti-degredation requirements.

SWPPP INSPECTOR
NAME:_____
TITLE:_____
COMPANY:_____
PHONE:_____
EMAIL:_____

CONTROLS

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

TEMPORARY STABILIZATION
Top soil stock piles and disturbed portions of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. The temporary seed shall be applied as per the temporary seeding specifications. Areas of the site which are to be paved will be temporarily stabilized by applying geotextile and stone sub-base until asphalt pavement can be applied.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
Any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance with the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s)
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

PERMANENT STABILIZATION
Disturbed portions of the site where construction activities permanently ceases shall be stabilized with permanent seed no later than 7 days after the last construction activity or within 2 days for areas within 50 feet of a stream. Refer to landscape plan for details.

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Other areas at final grade	Within seven days of reaching final grade within that area

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			●	●	●	*	*	*	●	●		
DORMANT SEEDING	●	●	●							●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			**	**	**	**	**	**	**			
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* -IRRIGATION NEEDED
**- IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

STORMWATER MANAGEMENT
Stormwater drainage will be provided by curb and gutter, storm sewer and a detention basin, outletting to an open ditch and on to Garbry Creek.

See sheet C-7.2 for additional detail(s) and outlet control(s)

OTHER CONTROLS

WASTE DISPOSAL
All waste materials will be collected and stored in a securely lidded metal dumpster rented from a licensed solid waste management company. The dumpster will meet all local, city and state solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary, and the trash will be hauled off-site. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the office trailer. The individual who manages the day-to-day site operations will be responsible for seeing that these procedures are followed. All construction and demolition debris (C&DD) waste will be disposed of in an Ohio EPA approved C&DD landfill as required by ORC 3714

HAZARDOUS WASTE
All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices. The individual who manages day-to-day site operations will be responsible for seeing that these practices are followed.

SANITARY WASTE
All sanitary waste will be collected from the portable units a minimum of three times per week by a licensed sanitary waste management contractor, as required by local regulation.

OFF-SITE VEHICLE TRACKING
Off-site tracking of sediments shall be minimized. A stabilized construction entrance will be provided to help reduce vehicle tracking of sediments. All paved streets adjacent to the site will be swept daily to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

DEWATERING ACTIVITIES
There shall be no turbid discharges to surface waters, resulting from dewatering activities. Sediment-laden water must pass through a settling pond, filter bag, or other comparable practice, prior to discharge.

PROCESS WASTEWATER
All process wastewater (equipment washing, leachate from on-site waste disposal, etc.) shall be collected and disposed of at a publicly owned treatment works.

TIMING OF CONTROLS/MEASURES
As indicated in the sequence of major activities, construction entrance(s) and silt fence will be constructed prior to clearing or grading of any other portions of the site. Sediment control devices shall be implemented for all areas remaining disturbed longer than 14 days and/or within 7 days of any grubbing activities. Areas where construction activity temporarily ceases for more than 21 days will be stabilized with a temporary seed and mulch within 2 days of the last disturbance if the area is within 50 feet of a stream, and within 7 days of the last disturbance if the area is more than 50 feet away from a stream. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch. After the entire site is stabilized, the accumulated sediment will be removed from the basin.

INVENTORY FOR POLLUTION PREVENTION PLAN
Inlet Protection
Silt Fence
Concrete Washout
Construction Entrance
Filter Sock
Faircloth Skimmer

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES
The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

GOOD HOUSEKEEPING
The following good housekeeping practices will be followed onsite during the construction project.

1. An effort will be made to store only enough product required to do the job.
2. All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
3. Products will be kept in their original containers with the original manufacturer's label.
4. Substances will not be mixed with one another unless recommended by the manufacturer.
5. Whenever possible, all of a product will be used up before disposing of the container.
6. Manufacturers' recommendations for proper use and disposal will be followed.
7. The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.

HAZARDOUS PRODUCTS
These practices are used to reduce the risks associated with hazardous materials.

1. Products will be kept in original containers unless they are not resealable.
2. Original labels and material safety data will be retained; they contain important product information.
3. If surplus product must be disposed of, manufacturers' or local and state recommended methods for proper disposal will be followed.

PRODUCT SPECIFIC PRACTICES
The following product specific practices will be followed onsite:

PETROLEUM PRODUCTS
All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

Fuel storage tanks shall be located away from surface waters and storm sewer system inlets. Fuel tanks shall be stored in a diked area capable of holding 150% of the tank capacity.

FERTILIZERS
Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

PAINTS
All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

CONCRETE TRUCKS
Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site other than within designated concrete washout areas.

SOIL EROSION CONTROL MAINTENANCE

1. Inlet protection devices and barriers shall be repaired or replaced if they show signs of undermining or deterioration.
2. All seeded areas shall be checked regularly to see that a good stand is maintained. Areas should be fertilized, watered, and reseeded as necessary.
3. Silt fences shall be repaired to their original conditions if damaged. Sediment shall be removed from the silt fences when it reaches one-half the height of the silt fence.
4. The construction entrance shall be maintained in a condition which will prevent tracking or flow of mud onto public rights-of-way.
5. Sediment from the storm sewers, infiltration, detention, and retention areas shall be removed as necessary to maintain proper functionality.

INSPECTION NOTES

1. Inspections shall be made and within 24 hours after a rain event of 0.5 inches within a 24 hour period. Inspection frequency may be reduced to monthly for dormant sites if the entire site is temporarily stabilized or if runoff is unlikely due to weather conditions for extended periods of time.
2. Only qualified inspection personnel shall perform inspections.
3. An inspection checklist shall be completed and signed by the inspector after every inspection. The inspection checklist shall contain the following: date, name/title/qualifications of inspectors, weather for the period since the last inspection (rainfall amounts, duration, etc.), weather and discrepancy of any discharges occurring at time of inspection, location of discharges or other pollutants from the site, location of bmp needing maintenance, location of any failed BMPs, location for any additional BMPs needed based on inspection, corrective actions required including any changes to the SWP3 and implementation dates.
4. The inspection records are to be kept 3 years after termination of construction activity.
5. Non sediment pond BMPs are to be repaired 3 days after inspections and sediment ponds are to be repaired or cleaned out within 10 days after inspection.
6. If a bmp is not functioning as intended, it shall be repaired/replaced within 10 days of inspection.
7. Missing BMPs they shall be installed within 10 days of inspection.

PROHIBITION ON NON-STORMWATER DISCHARGES

All discharges covered by this permit must be composed entirely of storm water with the exception of the following: discharges from firefighting activities; fire hydrant flushings; potable water sources including waterline flushings; irrigation drainage; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated groundwater from trench or well point dewatering and foundation or footing drains where flows are not contaminated with process materials such as solvents. Dewatering activities must be done in compliance with part ii.C and part iii.G.2.G.Iv of the construction storm water general permit. Discharges of material other than storm water or the authorized non-storm water discharges listed above must comply with an individual NPDES permit or an alternative NPDES general permit issued for the discharge.

SPILL CONTROL PRACTICES

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

1. All spills shall be cleaned up immediately after discovery. Manufacturers' recommended methods for spill cleanup posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
2. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
3. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
4. Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size. Spills of 25 or more gallons of petroleum waste must be reported to Ohio EPA (1-800-282-9378), the local fire department, and the local emergency planning committee within 30 minutes of the spill.
5. Soils contaminated by petroleum or other chemical spills must be treated/disposed at an Ohio EPA approved solid waste management facility or hazardous waste treatment, storage or disposal facility (TSDF).
6. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
7. The site superintendent responsible for the day-to-day site operations, will be the spill prevention and cleanup coordinator. He will designate site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

Know what's below. Call before you dig.

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT ENGINEERS • SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-9060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: NDT	Proj: 26143
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Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SWPPP NOTES

Sheet No.: C-6.1

DUST CONTROL

Dust control involves preventing or reducing dust from exposed soils or other sources during land disturbing, demolition and construction activities to reduce the presence of airborne substances which may present health hazards, traffic safety problems or harm animal or plant life.

The following specifications for dust control shall be followed onsite:

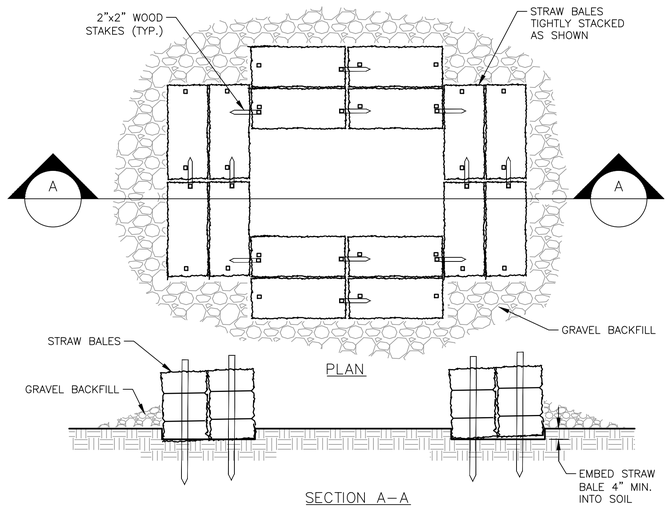
1. Vegetative cover and/mulch - apply temporary or permanent seeding and mulch to areas that will remain idle for over 21 days. Saving existing trees and large shrubs will also reduce soil and air movement across disturbed areas. See temporary seeding; permanent seeding; mulching practices; and tree and natural area protection practices.
2. Watering - spray site with water until the surface is wet before and during grading and repeat as needed, especially on haul roads and other heavy traffic routes. Watering shall be done at a rate that prevents dust but does not cause soil erosion. Wetting agents shall be utilized according to manufacturers instructions.
3. Spray-on adhesives - apply adhesive according to the following table or manufacturers' instructions.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

4. Stone - graded roadways and other suitable areas will be stabilized using crushed stone or coarse gravel as soon as practicable after reaching an interim or final grade. Crushed stone or coarse gravel can be used as a permanent cover to provide control of soil emissions.
5. Barriers - existing windbreak vegetation shall be marked and preserved. Snow fencing or other suitable barrier may be placed perpendicular to prevailing air currents at intervals of about 15 times the barrier height to control air currents and blowing soil.
6. Calcium chloride - this chemical may be applied by mechanical spreader as loose, dry granules or flakes at a rate that keeps the surface moist but not so high as to cause water pollution or plant damage. Application rates should be strictly in accordance with suppliers' specified rates.
7. Operation and maintenance - when temporary dust control measures are used; repetitive treatment should be applied as needed to accomplish control.
8. Street cleaning - paved areas that have accumulated sediment from construction should be cleaned daily, or as needed, utilizing a street sweeper or bucket - type endloader or scraper.

CONCRETE WASHOUT

Specifications for Concrete Washout



1. The residue or contents of all concrete mixers, dump trucks, other conveyance equipment and finishing tools shall be washed into concrete clean-out structures consisting of a straw bale barrier with gravel backfill. The length and width of these structures shall be as determined by the contractor to facilitate the particular equipment used. These structures shall be constructed on level ground at least 100' from the nearest watercourse, drainage swale or inlet. At no time shall the structure be allowed to be more than 50% full. The contractor shall maintain these ponds until all concrete placement is complete for the project.

2. Embed the straw bales 4" into the soil. Provide two rows of bales, as shown on the detail, with ends and corners tightly abuting. Orient the straw bales lengthwise with bindings around the sides of the bales so the wire does not contact the soil. Drive 2"x2" wood stakes through each bale, to securely anchor the bale and connect adjacent bales. Gravel backfill shall be provided and tamped around the outside perimeter of the bales to prevent erosion and flow around the bales.

3. The intent of these structures is to collect all concrete wash out water and allow it to dry to a solid material. After drying, the solid material can be removed with a loader or excavator for proper disposal. Wash out will not be permitted in any other areas.

4. Use the minimum amount of water to wash the vehicles and equipment. Never dispose of wash out into the street, storm inlet, drainage swale or watercourse. Dispose of small amounts of excess dry concrete, grout and mortar in the trash. Any soaps that are utilized shall be phosphate-free and biodegradable.

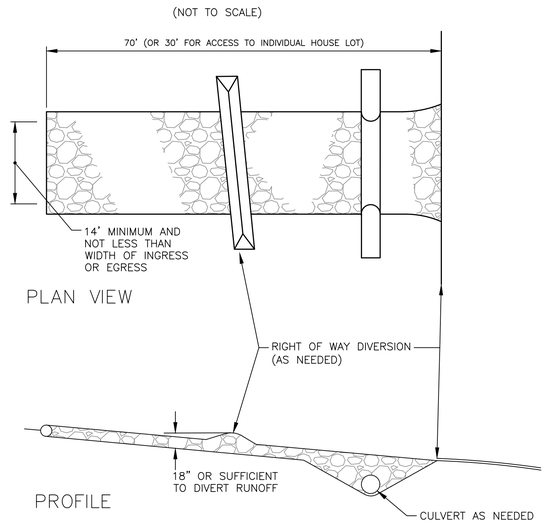
5. Additional concrete clean-out structures shall be constructed within the specified area as needed based upon the volume of wash out generated daily.

CONSTRUCTION ENTRANCE

Description

A construction entrance is a stabilized pad of stone underlain with geotextile and is used to reduce the amount of mud tracked off-site with construction traffic. Located at points of ingress/egress, the practice is used to reduce the amount of mud tracked off-site with construction traffic.

Specifications for Construction Entrance



1. Stone size - odot #2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.
2. Length - the construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 ft. (exception: apply 30 ft. Minimum to single residence lots).
3. Thickness - the stone layer shall be at least 6 inches thick for light duty entrances or at least 10 inches for heavy duty use.
4. Width - the entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.
5. Geotextile - a geotextile shall be laid over the entire area, prior to placing stone. It shall be composed of strong rot-proof polymeric fibers and meet the following specifications:

Figure 7.4.1

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITTIVITY	$1x10^3$ CM/SEC

6. Timing - the construction entrance shall be installed as soon as is practicable before major grading activities.
7. Culvert - a pipe or culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being directed out onto paved surfaces.
8. Water bar - a water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
9. Maintenance - top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by scraping or sweeping.
10. Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction-site shall be restricted from muddy areas.
11. Removal - the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.

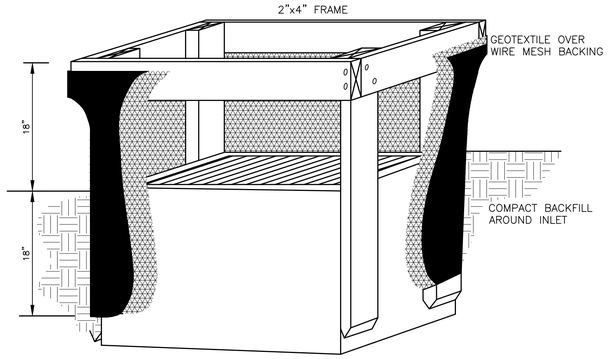
INLET PROTECTION

Description:

Storm drain inlet protection devices remove sediment from storm water before it enters storm sewers and downstream areas. Inlet protection devices are sediment barriers that may be constructed of washed gravel or crushed stone, geotextile fabrics and other materials that are supported around or across storm drain inlets.

Inlet protection is installed to capture some sediment and reduce the maintenance of storm sewers and other underground piping systems prior to the site being stabilized. Due to their poorer effectiveness, inlet protection is considered a secondary sediment control to be used in conjunction with other more effective controls.

Specifications for Geotextile Inlet Protection



1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.

2. The earth around the inlet shall be excavated completely to a depth at least 18 inches.

3. The wooden frame shall be constructed of 2 inches by 4 inches construction grade lumber. The 2 inches by 4 inches posts shall be driven one (1) ft. Into the ground at four corners of the inlet and the top portion of 2 inches by 4 inches frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads of ponded water will pose a safety hazard to traffic.

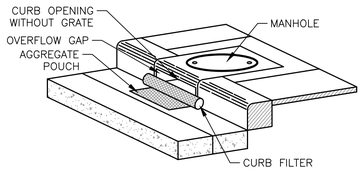
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.

5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.

6. Backfill shall be placed around the inlet in compacted 6 inches layers until the earth is even with notch elevation on ends and top elevation on sides.

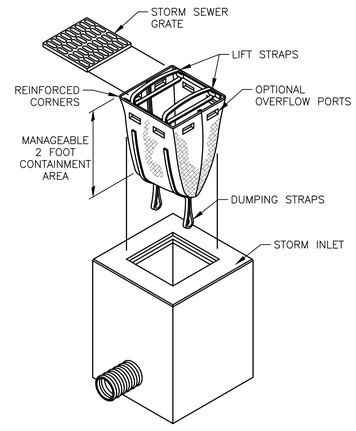
7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

ALTERNATIVE INLET PROTECTION DETAILS



NOTES:
1. INLET SEDIMENT CONTROL DEVICE WITH CURB FILTER TO BE INSTALLED ON EXISTING PAVEMENT FOR USE WITH EX./PROP. CURB INLETS.

DANDY CURB™ DETAIL
NOT TO SCALE



DANDY SACK™ DETAIL
NOT TO SCALE

NOTES:
1. FOR EX./PROP.CATCH BASIN WITHIN PAVED AREAS.

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT
ENGINEERS ▾ SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

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Date: 07.17.2026

Sheet: SWPPP NOTES & DETAILS

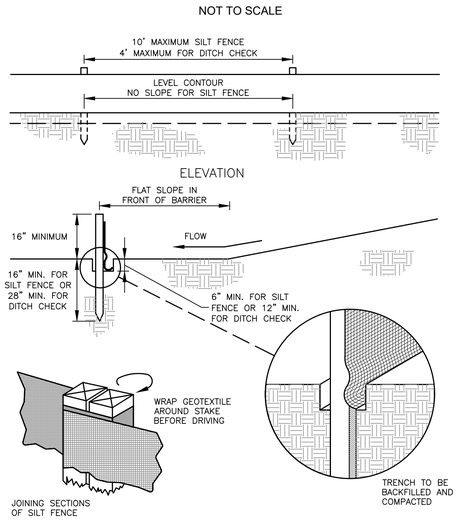
Sheet No.: C-6.2

SILT FENCE

Description

A silt fence is a sediment-trapping practice utilizing a geotextile fence, topography and sometimes vegetation to cause sediment deposition. Silt fence reduces runoff's ability to transport sediment by ponding runoff and dissipating small rills of concentrated flow into uniform sheet flow. Silt fence is used to prevent sediment-laden sheet runoff from entering into downstream creeks and sewer systems.

Specifications for Silt Fence



1. Silt fence shall be constructed before upslope land disturbance begins.
2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
3. Ends of the silt fences shall be brought upslope slightly so that water ponded by the silt fence wil be prevented from flowing around the ends.
4. Silt fence shall be placed on the flattest area available.
5. Where possible, vegetation shall be preserved for 5 feet (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
7. The silt fence shall be placed in an excavated or sliced trench cut a minimum of 6 inches deep. The trench shall be made with a trencher, cable laying machine, slicing machine, or other suitable device that will ensure an adequately uniform trench depth.
8. The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6 inch deep trench. The trench shall be backfilled and compacted on both sides of the fabric.
9. Seams between section of silt fence shall be spliced together only at a support post with aa minimum 6 inches overlap prior to driving into the ground. (see details)
10. Maintenance - silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow discharge, one of the following shall be performed, as appropriate: 1) the layout of the silt fence shall be changed, 2) accumulated sediment shall be removed, or 3) other practices shall be installed.
    Silt fence shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately.

Criteria for silt fence materials:

1. Fence posts - the length shall be a minimum of 32 inches long. Wood posts will be 2-by-2 inch nominal dimensioned hardwood of sound quality. They shall be free of knots, splits and other visible imperfections, that will weaken the posts. The maximum spacing between posts shall be 10 ft. Posts shall be driven a minmum 16 inches into the ground, where possible. If not possible, the posts shall be adequately secured to prevent overturning of the fence due to sediment/water loading.
2. Silt fence fabric (see chart below):

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	< OR = 0.84 MM	ASTM D4751
MINIMUM PERMITTIVITY	$1x10^{2}$ SEC.-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

PERMANENT SEEDING MIXTURE(S)

TABLE 5.8.2 RECOMMENDED PERMANENT SEEDING MIXES AND SEEDING RATES.[1] (ADAPTED FROM USDA-NRCS OHIO AND ODOT)

	MIX USE	PLANT SPECIES	PURE LIVE SEEDING RATE(LB/AC)[2,3]	PERCENT OF MIX
1	MULTIPURPOSE LAWN	TURF TYPE FESCUE (FESTUCA ARUNDINADEA	40	47
		KENTUCKY BLUEGRASS (POA PRATENSIS)	20	23
		PERENNIAL RYEGRASS (LOLIUM PERENNE)	25	30
		85 LB/AC TOTAL PLS RATE		
2	QUICK COVER	KENTUCKY BLUEGRASS (POA PRATENSIS)	15	41
		CREEPING RED FESCUE (FESTUCA RUBRA)	16.5	27
		ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	1.5	2
		PERENNIAL RYEGRAS (LOLIUM PERENNE)	19	30
		52 LB/AC TOTAL PLS RATE		
3	SECONDARY WILDLIFE BENEFITS COVER	KENTUCKY BLUEGRASS (POA PRATENSIS)	11	18
		ORCHARDGRASS (DACTYLIS GLOMERETA)	22.5	37
		ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	1.5	10
		PERENNIAL RYEGRAS (LOLIUM PERENNE)	19	31
		RED CLOVER (TRIFOLIUM PARTUM)	2	4
		56 LB/AC TOTAL PLS RATE		
4	STEEP SLOPES	HARD FESCUE (FESTUCA LONGIFOLIA)	55	55
		CREEPING RED FESCUE (FESTUCA RUBRA)	35	35
		ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	10	10
		100 LB/AC TOTAL PLS RATE		
5	MEADOW / CONSERVATION AREA[4]	NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIAE), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), PURPLE CONEFLOWER (ECHINACEA PURPUREA), RATTLESNAKE MASTER (ERYNGIUM YUCCIFOLIUM), OX-EYE SUNFLOW (HELIOPSIS HELIANTHOIDES), BERGAMONT (MONARDO FISTULOSA), GREY-HEADED CONEFLOWER (RATIBIDA PINNATA), ORANGE CONEFLOWER (RUDBECKIA FULGIDA), PRAIRE DOCK (SILPHIUM TEREBINTHINACEUM), WHORLED ROSINWEED (SILPHIUM TRIFOLIATUM), STIFF GOLDENROD (SOLIDAGO RIGIDA) (A MIXTURE OF 5 TO 12 SPECIES WITH ANY ONE NOT TO EXCEED 5% OF THE MIX)	15	25
		BIG BLUE STEM (ANDROPOGAN GERADII)	2	3
		LITTLE BLUE STEM (SCHIZACHYRIUM SCOPARIUM)	3	5
		INDIAN GRASS (SOGHASTRUMNUTANS)	1	2
		ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	40	65
		61 LB/AC TOTAL PLS RATE		

FOOTNOTES:
1. SMALL VARIATIONS WITHIN THE SEEDING RATES LISTED WITHIN THE PLANNED MIX ARE ACCEPTABLE SO LONG AS THE MIX INCLUDES ALL THE LISTED SPECIES, AND THE TOTAL PROPORTION OF THE SEED MIXTURE IS 100% OR MORE.
2. THE SEEDING RATES USED IN THIS DOCUMENT ASSUME THE SEED USED IS ALL VIABLE. ALL RATES LISTED IN THIS DOCUMENT ARE LISTED AS PURE LIVE SEED (PLS). THIS PLS RATE MUST BE ADJUSTED TO ACCOUNT FOR THE QUALITY OF THE SEED BEING USED.
3. PLS SEEDING RATES ARE TO BE INCREASED BY 20% IF THE METHOD OF SEEDING DOES NOT RESULT IN GOOD SOIL SEED CONTACT INCLUDED TO ACCOUNT FOR THE INCREASED RISK OF POOR EMERGENCE. FOR EXAMPLE, IF THE PLANNED METHOD INVOLVES BROADCAST SEEDING WITH NO ADDITIONAL ACTIVITES TO IMPROVE SEED-TO-SOIL CONTACT.
4. THIS IS A GENERAL MIX. ECORGION-SPECIFIC MIXES ARE RECOMMENDED WHERE FEASIBLE.

TEMPORARY SEEDING

Description

Temporary seedings establish temporary cover on disturbed areas by planting appropriate rapidly growing annual grasses or small grains. Temporary seeding provides erosion control on areas in between construction operations. Grasses which are quick growing are seeded and usually mulched to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction site prone to erosion and should be used everywhere the sequence of construction operations allows vegetation to be established.

Specifications for Temporary Seeding

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1,000 FT.	LB. PER AC.
MARCH 1 TO AUGUST 15	OATS	3	120 LB. (4 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	ANNUAL RYEGRASS	1.2500	55 LB.
	PERENNIAL RYEGRASS	3.2500	142 LB.
	CREEPING RED FESCUE	0.4000	17 LB.
	KENTUCKY BLUEGRASS	0.4000	17 LB
	OATS	3	128 LB. (3 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
AUGUST 16 TO NOVEMBER 1	RYE	3	112 LB. (2 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	120 LB. (2 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	ANNUAL RYEGRASS	1.2500	40 LB.
	PERENNIAL RYEGRASS	3.2500	40 LB.
	CREEPING RED FESCUE	0.4000	40 LB.
	KENTUCKY BLUEGRASS	0.4000	40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

1. Structural erosion and sediment-control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
4. Soil amendments--temporary vegetation seeding rate shall establish adequate stands of vegetation which may require the use of soil amendments. Base rate for lime and fertilizer shall be used.
5. Seeding method--seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on site, and the seeding shall be done immediately and without interruption.

Mulching Temporary Seeding

1. Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates on favorable very flat soil conditions may not need mulch to achieve adequate stabilization.
2. Materials:
- Straw--if straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons per acre or 90 lb. Per 1,000 square feet (two to three bales).
- Hydroseeders--if wood-cellulose fiber is used, it shall be used at 2,000 lb. Per acre or 46 lb. Per 1,000 square feet.
- Other--other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons per acre.

3. Straw mulch shall be anchored immediately to minimize loss by wind or water.
    Anchoring methods:
- Mechanical--a disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, left to a length of approximately 6 inches.
- Mulch nettings--nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentration runoff and on critical slopes.
- Synthetic binders--synthetic binders such as acrylic dlr (agri-tac), dca-70, petroset, terra tack or equal may be used at rates recommended by the manufacturer.
- Wood-cellulose fiber--wood-cellulose fiber binder shall be applied at a net dry weight of 750 lb. Per acre. The wood-cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lb. Per 100 gallons.

STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED
PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT
ENGINEERS ▾ SURVEYORS
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Date: 07.17.2026	
Sheet: SWPPP NOTES & DETAILS	
Sheet No.: C-6.3	

BASIN OUTLET/WATER QUALITY CONTROL STRUCTURE DETAIL

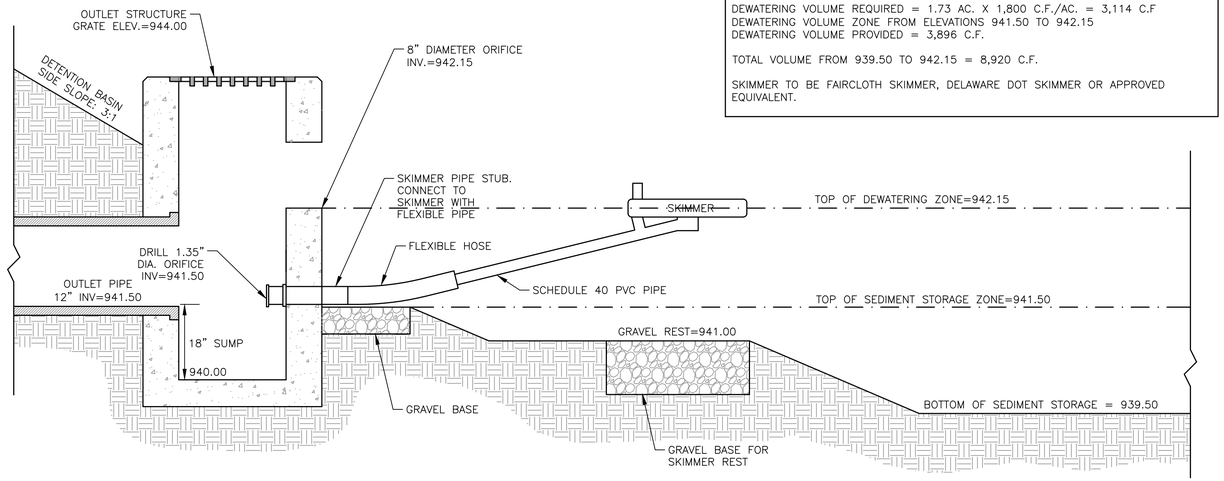
OUTLET STRUCTURE WITH TEMPORARY SKIMMER DETAIL

SEDIMENT STORAGE VOLUME REQUIRED = 1.73 AC. X 1,000 C.F./AC. =1,730 C.F.
SEDIMENT STORAGE ZONE FROM ELEVATIONS 939.50 TO 941.50
SEDIMENT STORAGE VOLUME PROVIDED = 5,806 C.F.

DEWATERING VOLUME REQUIRED = 1.73 AC. X 1,800 C.F./AC. = 3,114 C.F
DEWATERING VOLUME ZONE FROM ELEVATIONS 941.50 TO 942.15
DEWATERING VOLUME PROVIDED = 3,896 C.F.

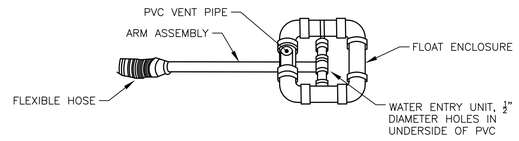
TOTAL VOLUME FROM 939.50 TO 942.15 = 8,920 C.F.

SKIMMER TO BE FAIRCLOTH SKIMMER, DELAWARE DOT SKIMMER OR APPROVED EQUIVALENT.



TEMPORARY SKIMMER TO BE USED DURING CONSTRUCTION. ONCE CONSTRUCTION IS COMPLETE AND SITE IS STABILIZED, TEMPORARY SKIMMER IS TO BE REMOVED. SEDIMENT COLLECTED IN THE BASIN SHALL BE REMOVED AND THE BOTTOM OF POND REGRADED ACCORDANCE WITH THE APPROVED GRADING PLAN.

SKIMMER DETAIL (TOP VIEW)
FAIRCLOTH SKIMMER, DELAWARE DOT SKIMMER, OR APPROVED EQUIV.



Basin WQv Compliance Tool

version 3.2 2020-07-07

Project Summary

Project Name:	UVCC Parking Expansion			
Subwatershed ID/Label:	Proposed to Pond			
Submitted by:	NDT			
Date:	6/26/2026			
Subwatershed Drainage Area, A_{total} =	1.73 acres	=	75,359	ft2
Subwatershed Impervious Area, A_{imp} =	1.18 acres	=	51,401	ft2
Imperviousness fraction, i =	0.68		68	%
Water Quality Volume, WQv =	3,752 ft^3	=	0.09	ac-ft

Step 1 - Soil Suitability

Soil Series	Bs, CrA	HSG	D

Step 2 - Dry ED Basin Volume Requirements

Extended Detention Volume, EDv =	3752 ft^3
Minimum Sediment Storage Volume, $V_{sediment}$ =	750 ft^3
Minimum Forebay Volume, $V_{forebay}$ =	375 ft^3
Minimum Permanent Micropool Volume, $V_{micropool}$ =	375 ft^3

Step 3 - Basin Stage-Storage Relationship

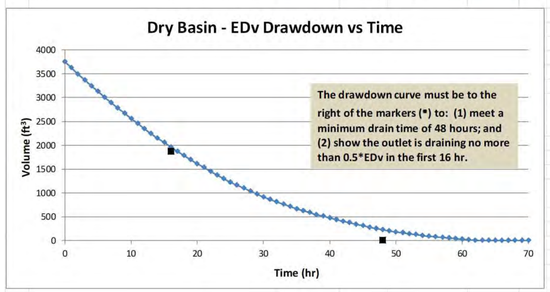
	Elevation ft	Area ft^2	Incremental Volume ft^3	Cumulative Volume ft^3
Bottom of Permanent Micropool =	939.50	1,202		
(include forebay area if below EDv)	940.00	1,644	709	709
	941.50	5,535	5,098	5,806
	942.00	6,076	2,902	8,708
	943.00	7,200	6,630	15,338
	944.00	8,381	7,783	23,121
	944.75	9,304	6,629	29,750

Step 4 - Outlet Elevations and Storage Volumes

WQ Orifice Invert Elevation =	941.50			
Elevation of Top of EDv =	942.14			
Secondary Outlet Invert Elevation =	942.15			OKAY
WQ Treatment Volume Provided, $V_{treatment}$ =	3,825 ft^3			
Treatment Vol Provided Relative to EDv, $V_{treatment}/EDv$ =	1.02	=	102%	OKAY
Permanent Pool Volume Provided, PPv =	5,806 ft^3			
Forebay Volume Provided, $V_{forebay}$ =	5,431 ft^3	=	14.47	
Is forebay volume below WQ outlet? (Yes or No)	Yes	=	1447%	OKAY
Permanent Micropool Volume Provided, $V_{micropool}$ =	375 ft^3			
Ratio $V_{micropool}$ Provided to $V_{micropool}$ Required =	1.00	=	100%	OKAY
Sediment Storage Volume Provided, $V_{sediment}$ =	5,806 ft^3			
Ratio $V_{sediment}$ Provided to $V_{sediment}$ Required =	7.74	=	774%	OKAY

Step 5 - Outlet (Orifice) Sizing

Maximum Hydraulic Head, Hmax =	0.64 ft			
Orifice Coefficient, C =	0.6			
Target (Minimum) Draw-down Time, T_d =	48 hr			
Target Average Discharge, Q_{avg} =	0.02 cfs			
Average Hydraulic Head, H_{avg} =	0.32 ft			
Estimated Orifice Area, $A_{orifice}$ =	1.15 in^2	=	0.008	ft^2
Estimated Orifice Diameter, $D_{orifice}$ =	1.21 in	=	0.10	ft
Design Orifice Diameter, $D_{orifice}$ =	1.35 in	=	0.11	ft
Design Orifice Area, $A_{orifice}$ =	1.42 in^2	=	0.010	ft^2
Time to Completely Drain EDv, T_d =	62 hr	must be ≥ 48 hr		OKAY
Volume Drained in First 16 hr =	1,791 ft^3			
% of EDv =	47.7 %	must be ≤ 50%		OKAY



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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT
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Date: 07.17.2026

Sheet: SWPPP NOTES & DETAILS

Sheet No.: C-6.4

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Section A – General Information
(If necessary, complete additional inspection reports for each separate inspection location.)

Inspector Information

Inspector Name:	**Title:**
Qualifications:	**Email:**
Company Name and Address:	**Phone Number:**

Inspection Details

Inspection Date:	**Inspection Start Time:**	**Inspection End Time:**
Inspection Location:		
Current Phase of Construction:		

Weather Conditions for the period since the last inspection:

Storm Event Date	Storm Event Time	Storm Event Duration	Total Rainfall Amount (inches)	Discharge Occur?
				☐ Yes ☐ No
				☐ Yes ☐ No
				☐ Yes ☐ No

Weather Conditions During Inspection:

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Section B – Description of Discharges

Discharge Location	Is a discharge occurring at the time of the inspection?	Observations for each point of discharge[1]:
1.	☐ Yes ☐ No	
2.	☐ Yes ☐ No	
3.	☐ Yes ☐ No	
4.	☐ Yes ☐ No	
5.	☐ Yes ☐ No	

1. *Describe the visual quality of the discharge including color; odor; floating, settled, or suspended solids; foam; oil sheen; and other indicators of stormwater pollutants. Include signs of the above pollutant characteristics that are visible from your site and attributable to your discharge.*

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Section C – Erosion and Sediment Controls

Construction Entrance

Description of Conditions Observed:

Is a construction entrance installed per plan?	☐ Yes ☐ No	Notes:
Does sediment need to be removed from the surface?	☐ Yes ☐ No	Notes:
Does the entrance drain properly runoff diverted away?	☐ Yes ☐ No	Notes:
Is sediment being tracked off-site?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Temporary Stabilization

Description of Conditions Observed:

Are all disturbed areas of the site that will lie dormant for over 14 days temporarily stabilized?	☐ Yes ☐ No	Notes:
Have all stockpiles been temporarily stabilized?	☐ Yes ☐ No	Notes:
Does existing temporary stabilization provide sufficient and effective cover?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Permanent Stabilization

Description of Conditions Observed:

Are all areas of the site at final grade permanently stabilized?	☐ Yes ☐ No	Notes:
Has proper seedbed preparation, fertilizer application, and mulching been conducted?	☐ Yes ☐ No	Notes:
Are conveyance channels stabilized?	☐ Yes ☐ No	Notes:
Are outflows stabilized?	☐ Yes ☐ No	Notes:
Are steep slopes stabilized?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Sediment Pond

Description of Conditions Observed:

Does runoff enter the pond without causing erosion or bypassing the control?	☐ Yes ☐ No	Notes:
Are the banks stabilized?	☐ Yes ☐ No	Notes:
Is the skimmer functioning properly?	☐ Yes ☐ No	Notes:
Is the outlet free of obstructions?	☐ Yes ☐ No	Notes:
Does the pond have sediment storage capacity?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Sediment Barriers

Description of Conditions Observed:

Are sediment barriers installed as planned in the SWP3?	☐ Yes ☐ No	Notes:
Are there other locations in need of a sediment barrier?	☐ Yes ☐ No	Notes:
Is the barrier sealed to the ground with ends upturned and without gaps or openings such that water ponds behind the barrier?	☐ Yes ☐ No	Notes:
Does captured sediment need to be removed from behind the barrier?	☐ Yes ☐ No	Notes:
Is the barrier falling over, flattened, or otherwise lost ponding depth?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

Storm Drain Inlet Protection

Description of Conditions Observed:

Is storm drain inlet protection installed as planned in the SWP3?	☐ Yes ☐ No	Notes:
Are all operating inlets receiving sediment-laden water protected?	☐ Yes ☐ No	Notes:
Does runoff bypass the device including through tears or holes?	☐ Yes ☐ No	Notes:
Does captured sediment need to be removed from the device?	☐ Yes ☐ No	Notes:
Is the device worn, damaged, or degraded such that it is no longer effective?	☐ Yes ☐ No	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report — **Project Name:** _____ **NPDES ID Number:** _____

OTHER EROSION AND SEDIMENT CONTROL: _____

Description of Conditions Observed:

Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:

OTHER EROSION AND SEDIMENT CONTROL: _____

Description of Conditions Observed:

Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

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Date: 07.17.2026

Sheet: SWPPP INSPECTION FORMS

Sheet No.: C-6.5

Construction General Permit Site Inspection Report **Project Name:** _____
NPDES ID Number: _____

Section D – Pollution Controls		
Are all controls to prevent the following pollutants from entering the drainage system or discharging installed, maintained, and operating effectively?		
Dewatering	☐ Yes ☐ No ☐ N/A	Notes:
Washout of Concrete and other materials	☐ Yes ☐ No ☐ N/A	Notes:
Fuel Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Trash Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Agrichemical Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Petroleum Product Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Toxic Materials Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Sanitary Waste	☐ Yes ☐ No ☐ N/A	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report **Project Name:** _____
NPDES ID Number: _____

Section D – Pollution Controls		
Are all controls to prevent the following pollutants from entering the drainage system or discharging installed, maintained, and operating effectively?		
Dewatering	☐ Yes ☐ No ☐ N/A	Notes:
Washout of Concrete and other materials	☐ Yes ☐ No ☐ N/A	Notes:
Fuel Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Trash Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Agrichemical Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Petroleum Product Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Toxic Materials Storage & Handling	☐ Yes ☐ No ☐ N/A	Notes:
Sanitary Waste	☐ Yes ☐ No ☐ N/A	Notes:
Requires Routine Maintenance? ☐ Yes ☐ No	Describe Maintenance Items Needed:	
Requires Corrective Action? ☐ Yes ☐ No	Describe Actions Needed:	

Construction General Permit Site Inspection Report **Project Name:** _____
NPDES ID Number: _____

Section F – Signature and Certification	
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."	
Signature of Inspector or "Duly Authorized Representative:"	
Signature:	**Date:**
Printed Name:	**Affiliation:**

When practices require repair or maintenance. If the inspection reveals that a control practice needs repair or maintenance, with the exception of a sediment settling pond, it shall be repaired or maintained within 3 days of the inspection. Sediment settling ponds shall be repaired or maintained within 10 days of the inspection.

ii. **When practices fail to provide their intended function.** If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 shall be amended, and the new control practice shall be installed within 10 days of the inspection.

iii. **When practices depicted on the SWP3 are not installed.** If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.h of this permit, the control practice shall be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record shall contain a statement of explanation as to why the control practice is not needed.

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:
UPPER VALLEY CAREER CENTER PARKING EXPANSION
8811 CAREER DRIVE
CITY OF PIQUA, MIAMI COUNTY, OHIO

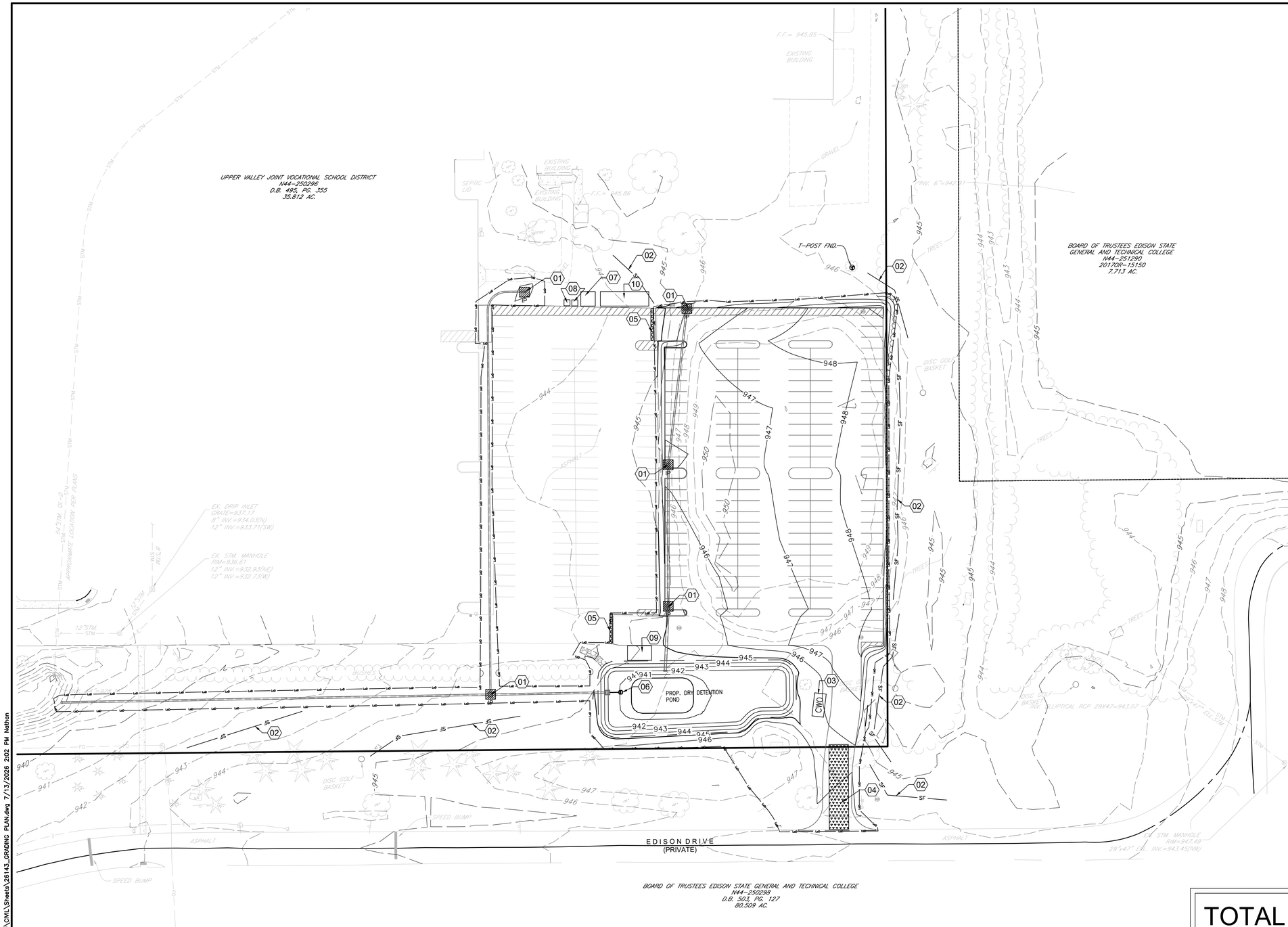
BURKHARDT ENGINEERS ▼ SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: SWPPP INSPECTION FORMS

Sheet No.: C-6.6



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

PROPOSED EROSION CONTROL LEGEND

- IP — INLET PROTECTION — SEE DETAIL(S) ON SHEET XXXX
- SF — SILT FENCE — SEE DETAIL ON SHEET XXXX
- CWO — CONCRETE WASHOUT — SEE DETAIL ON SHEET XXXX
- CONSTRUCTION ENTRANCE — SEE DETAIL ON SHEET XXXX
- LOD — LIMITS OF DISTURBANCE
- FILTER SOCK — SEE DETAIL ON SHEET XXXX

EROSION CONTROL KEYNOTES

01 INLET PROTECTION
02 SILT FENCE
03 CONCRETE WASHOUT
04 CONSTRUCTION ENTRANCE
05 FILTER SOCK
06 FAIRCLOTH SKIMMER - SEE DETAIL ON SHEET XXX
07 TEMPORARY DUMPSTER AREA
08 PORTABLE TOILET AREA
09 VEHICLE FUELING AREA
10 JOB TRAILER AREA

TOTAL DISTURBED AREA
3.18 ± acres

Know what's below. Call before you dig.

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STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

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Design: NDT	Proj: 26143
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Check: SRF	Tab:
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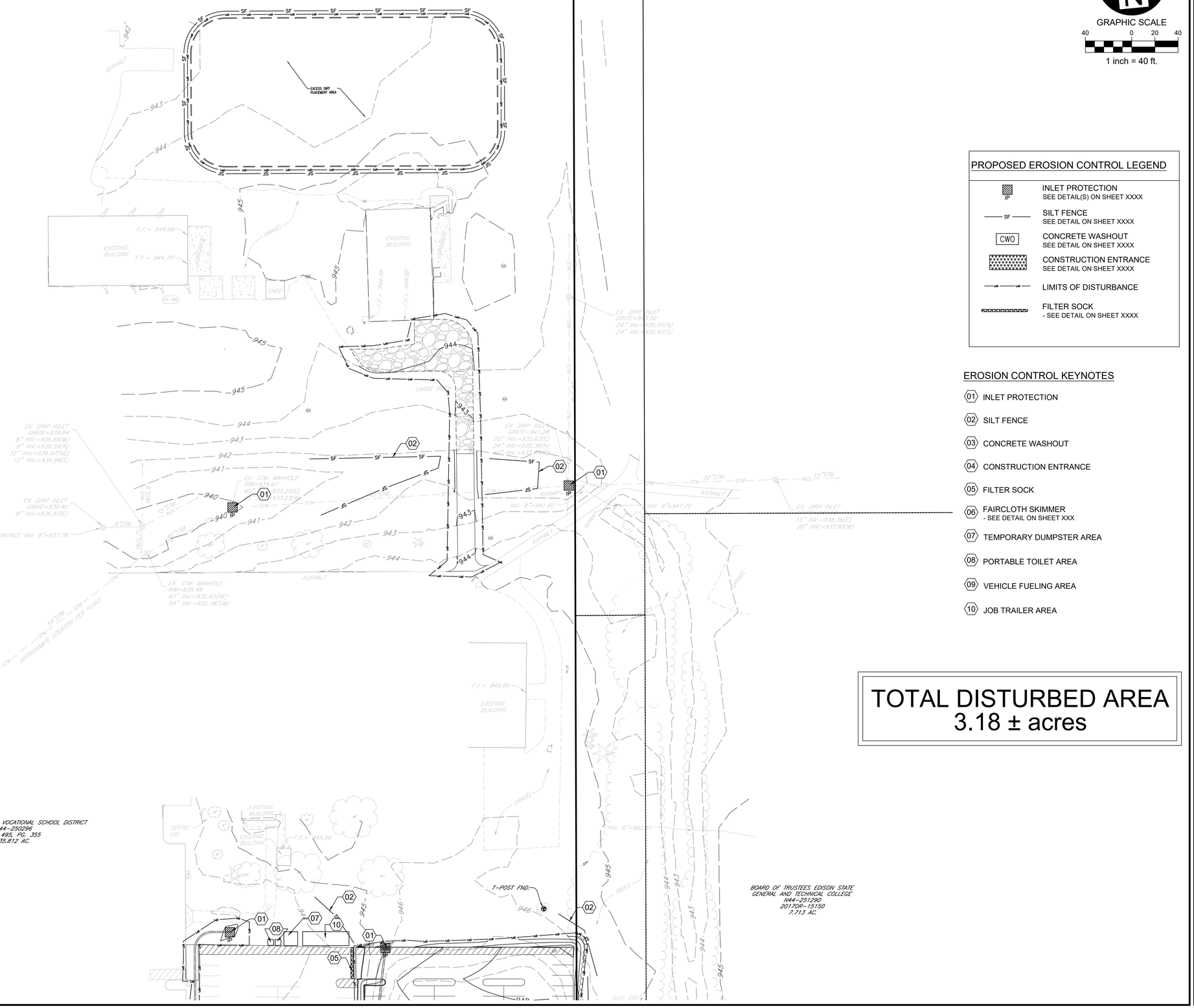
Date: 07.17.2026

Sheet: SOUTH SWPPP PLAN

Sheet No.: C-6.7



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EROSION CONTROL KEYNOTES

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07 TEMPORARY DUMPSTER AREA
08 PORTABLE TOILET AREA
09 VEHICLE FUELING AREA
10 JOB TRAILER AREA

TOTAL DISTURBED AREA
3.18 ± acres

811 Know what's below. Call before you dig.

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Item	Description	Date
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Design: NDT	Proj: 26143
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Check: SRF	Tab:
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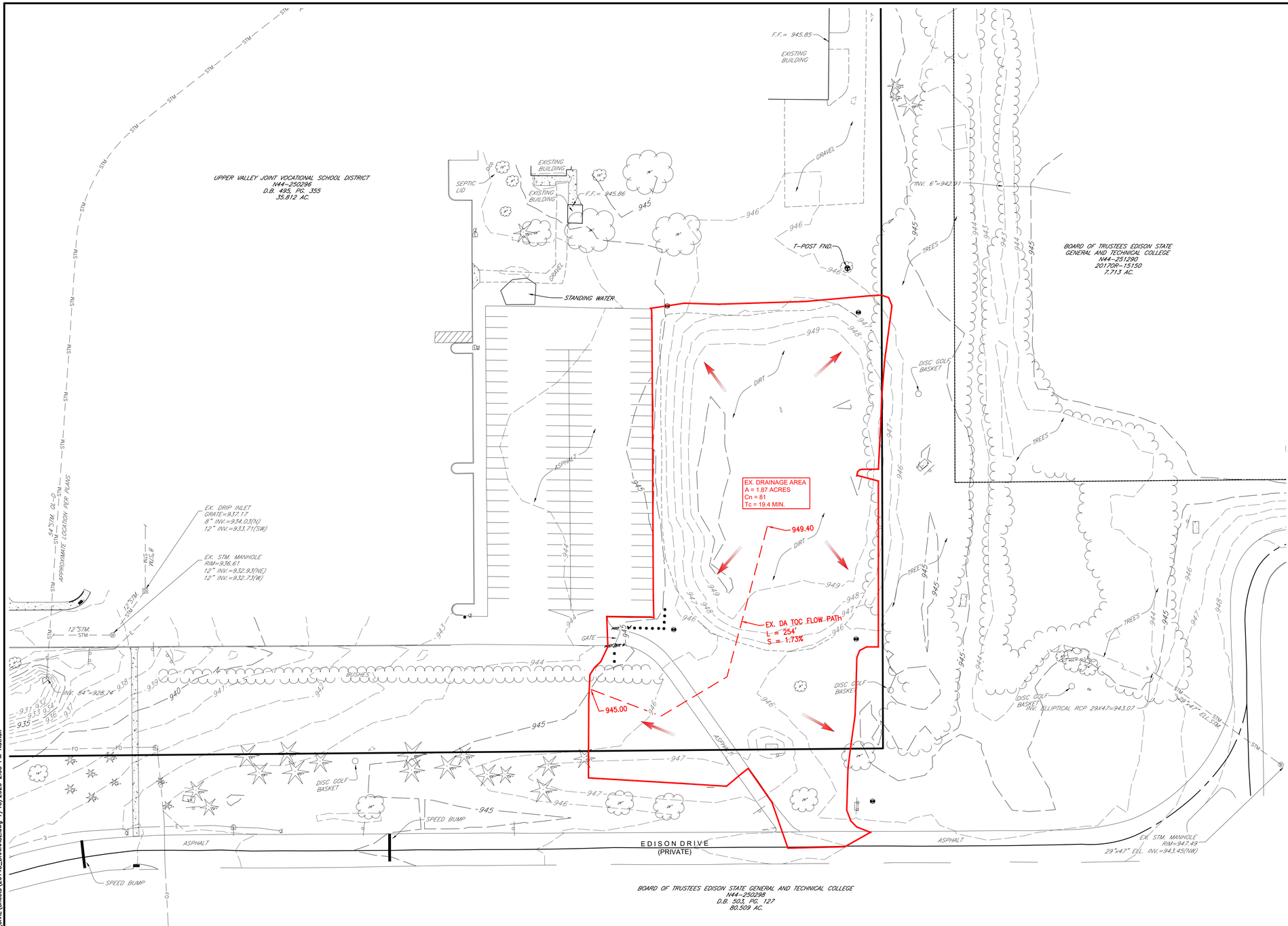
Date: 07.17.2026

Sheet: NORTH SWPPP PLAN

Sheet No.: C-6.8



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

DRAINAGE MAP LEGEND

- EX. DRAINAGE AREA
- EX. DRAINAGE AREA Tc FLOW PATH
- PROP. DRAINAGE AREA
- PROP. DIRECT RUNOFF
- PROP. DRAINAGE AREA Tc FLOWPATH
- SURFACE DRAINAGE PATTERN

811 Know what's below. Call before you dig.

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STATE OF OHIO
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Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:

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Design: NDT	Proj: 26143
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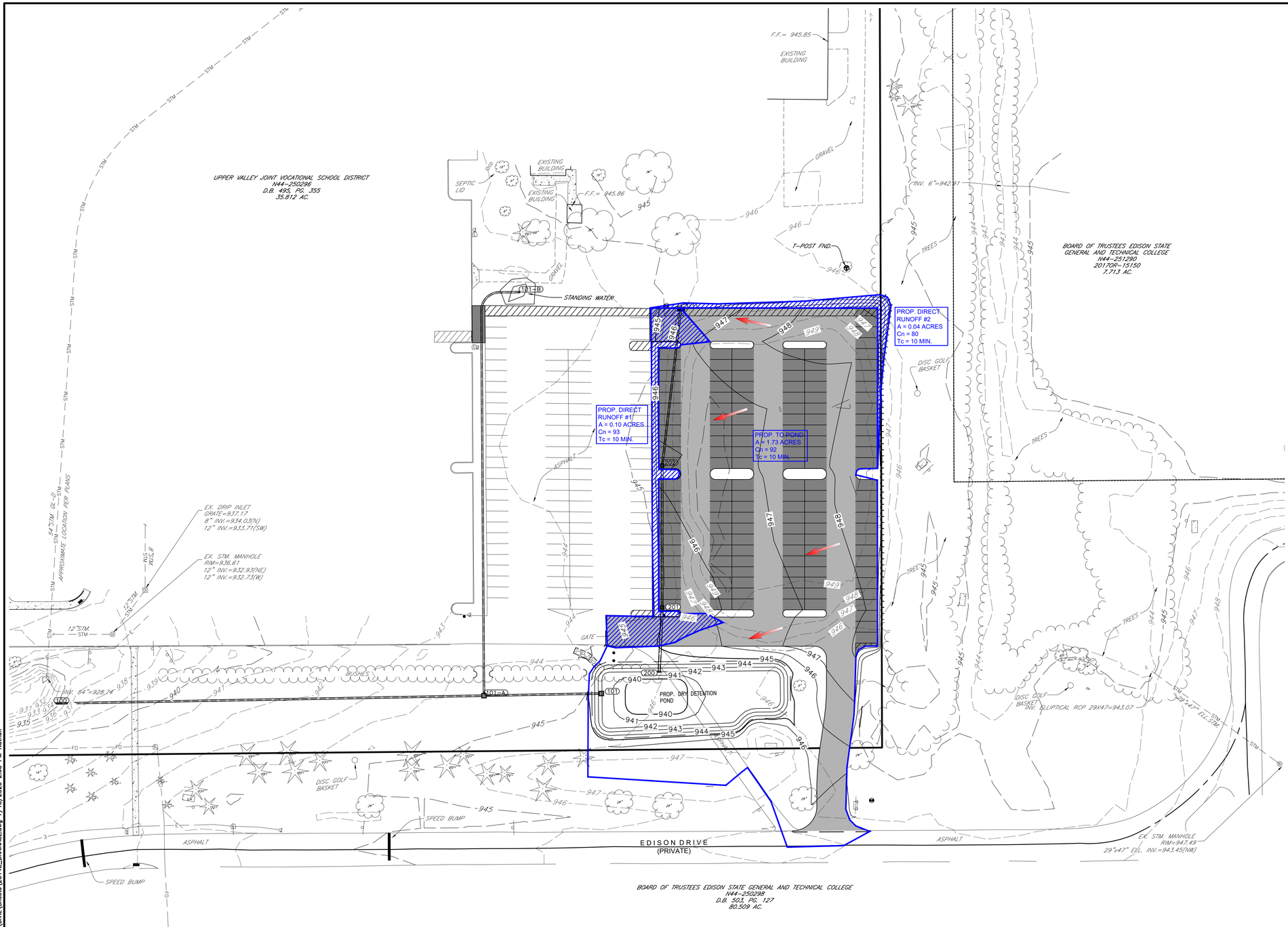
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: EXISTING DRAINAGE MAP

Sheet No.: C-7.0



GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

DRAINAGE MAP LEGEND

- EX. DRAINAGE AREA
- EX. DRAINAGE AREA Tc FLOW PATH
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Item	Description	Date
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Design: NDT	Proj: 26143
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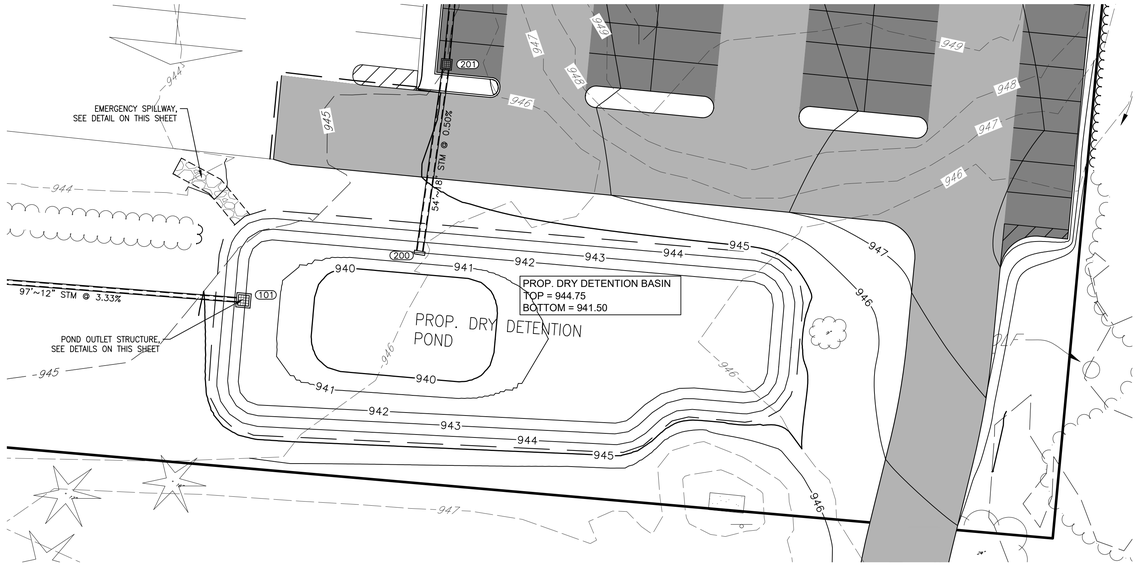
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: PROPOSED DRAINAGE MAP

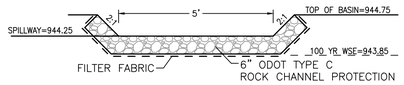
Sheet No.: C-7.1



GRAPHIC SCALE

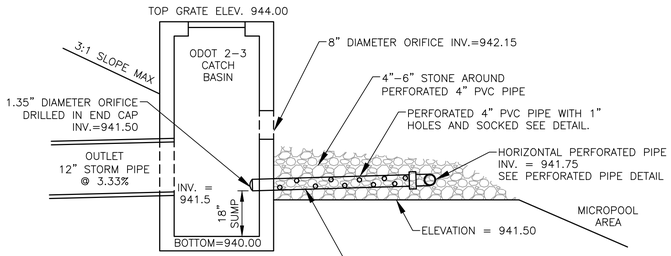
20 0 10 20

1 inch = 20 ft.



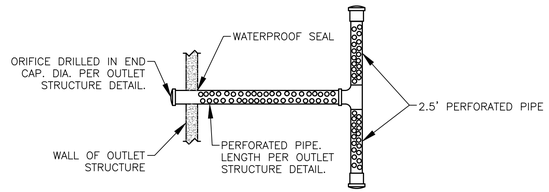
EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



OUTLET STRUCTURE #101 DETAIL

NOT TO SCALE



PERFORATED PIPE DETAIL

NOT TO SCALE

Existing Conditions

The existing site is undeveloped and mostly consists of grass in good condition and a small ammount of pavement. The site's existing watershed drains west to an open ditch to an existing culvert that crosses Looney Road and ultimately to Garbry Creek.

Proposed Conditions

The proposed improvements will include constructing a new parking lot addition, detention basin and associated utilities. Runoff from the site will be collected in a new storm sewer system and routed through a new Dry Extended Detention Basin, providing both Water Quality Volume and Detention Volume controls to reduce post-construction runoff rates in accordance with the Ohio EPA and City of Piqua Regulations. The detention basin will be located in the southwest corner of the site, between an existing driveway and the south property line, as shown on these plans. The detention basin will outlet to an existing open ditch.

Soils

-Bs - Brookston Silty Clay Loam, fine texture, 0 to 2 % slopes, HSG C/D (91% of site)
-CrA - Crosby Silt Loam, Till Plain, 0 to 2 % slopes, HSG D (9% of site)
- D soils used for pre-post analysis.

Reference Materials and Methodology for Calculations

USDA - Urban Hydrology for Small Watersheds - Technical Release 55
USDA - Web Soil Survey
City of Piqua Stormwater Regulations
Ohio EPA Permit No 0OHC000006
ODNR Rainwater and Land Development Manual
NOAA Altas 14, Volume 2, Version 3

Runoff Control and Water Quality Requirements

Provide detention as necessary to reduce post-construction runoff rates to pre-development rates in accordance with the Critical Storm Method.

Provide water quality to meet the requirements of Ohio EPA Permit No. OHC000006.

Runoff Control and Water Quality will be achieved with a Dry Extended Detention Basin.

Know what's below. Call before you dig.

Rainfall Data

Storm	24-hr Depth
1-year	2.2300
2-year	2.6700
5-year	3.3000
10-year	3.8200
25-year	4.5700
50-year	5.2000
100-year	5.8700

Critical Storm Method Calculations

Pre-Development Conditions
Area = 1.87 acres
Composite CN = 81
1.80 acres of Open Space in Good Condition (CN=80)
0.07 acres of Pavement/Building (CN=98)
Tc = 19.4 minutes

Post-Development Conditions
Area = 1.87 acres
Composite CN = 90
1.25 acres of Open Space in Good Condition (CN=80)
0.62 acres of Pavement/Building (CN=98)
Tc = 10 minutes
Pre-developed 1 year storm runoff volume = 0.118 cu-ft
Post-developed 1 year storm runoff volume = 0.160 ac-ft
35.6% increase in runoff volume
Critical Storm = 5-year

DETENTION BASIN STATE-STORAGE-DISCHARGE

Elevation (ft)	Contour Area (sq.ft.)	Incremental Storage (cu.f.t)	Total Storage (cu.ft.)	Discharge (cfs)
941.50	5535	0	0	0.0000
942.00	6076	2903	2903	0.0300
943.00	7200	6638	9541	1.2700
944.00	8381	7790	17331	2.1500
944.75	9304	6169	23500	16.0700

DETENTION BASIN & SITE PERFORMANCE TABLE

Event (yr)	Pre Development Discharge (cfs)	Post Development Discharge (Inflow to Pond) (cfs)	Post Development Discharge (Direct Runoff #1) (cfs)	Post Development Discharge (Direct Runoff #2) (cfs)	Allowable Total Site Peak Discharge (cfs)	Basin Discharge (Outflow) (cfs)	Water Surface Elevation	Basin Volume (cu.ft.)	Total Site Discharge (cfs)
1	1.52	3.73	0.23	0.04	1.52	0.24	942.39	5,359	0.30
2	2.19	4.73	0.28	0.06	1.52	0.53	942.55	6,431	0.57
5	3.24	6.16	0.37	0.09	1.52	1.01	942.80	8,138	1.13
10	4.15	7.33	0.43	0.11	4.15	1.29	943.02	9,693	1.52
25	5.49	9.03	0.53	0.15	5.49	1.62	943.34	12,024	1.99
50	6.65	10.44	0.61	0.18	6.65	1.84	943.59	14,008	2.31
100	7.89	11.93	0.70	0.22	7.89	2.04	943.85	16,093	2.62

Critical Storm = 5-Year

HydroCAD, v. 10 used for hydrologic calculations and detention modeling.

Water Quality Calculations

Basin WQv Compliance Tool

version 3.2 2020-07-07

Project Summary

Project Name:	UVCC Parking Expansion			
Subwatershed ID/Label:	Proposed to Pond			
Submitted by:	NDT			
Date:	6/26/2026			
Subwatershed Drainage Area, A_{total} =	1.73	acres	= 75,359	ft2
Subwatershed Impervious Area, A_{imp} =	1.18	acres	= 51,401	ft2
Imperviousness fraction, i =	0.68		68	%
Water Quality Volume, WQv =	3,752	ft^3	= 0.09	ac-ft

Step 1 - Soil Suitability

Soil Series	Bs, CrA	HSG	D

Step 2 - Dry ED Basin Volume Requirements

Extended Detention Volume, EDv =	3752	ft^3
Minimum Sediment Storage Volume, $V_{sediment}$ =	750	ft^3
Minimum Forebay Volume, $V_{forebay}$ =	375	ft^3
Minimum Permanent Micropool Volume, $V_{micropool}$ =	375	ft^3

Step 3 - Basin Stage-Storage Relationship

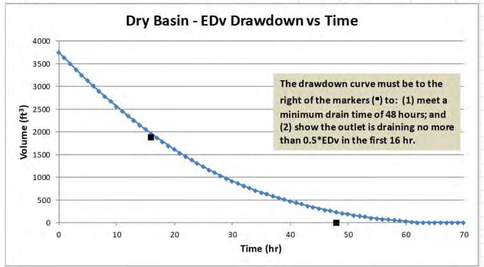
	Elevation ft	Area ft^2	Incremental Volume ft^3	Cumulative Volume ft^3
Bottom of Permanent Micropool =	939.50	1,202		
(include forebay area if below EDv)	940.00	1,644	709	709
	941.50	5,535	5,098	5,806
	942.00	6,076	2,902	8,708
	943.00	7,200	6,630	15,338
	944.00	8,381	7,783	23,121
	944.75	9,304	6,629	29,750

Step 4 - Outlet Elevations and Storage Volumes

WQ Orifice Invert Elevation =	941.50			
Elevation of Top of EDv =	942.14			
Secondary Outlet Invert Elevation =	942.15			OKAY
WQ Treatment Volume Provided, $V_{treatment}$ =	3,825	ft^3		
Treatment Vol Provided Relative to EDv, $V_{treatment}/EDv$ =	1.02		= 102%	OKAY
Permanent Pool Volume Provided, PPv =	5,806	ft^3		
Forebay Volume Provided, $V_{forebay}$ =	5,431	ft^3	= 14.47	
Is forebay volume below WQ outlet? (Yes or No)	Yes		= 1447%	OKAY
Permanent Micropool Volume Provided, $V_{micropool}$ =	375	ft^3		
Ratio $V_{micropool}$ Provided to $V_{micropool}$ Required =	1.00		= 100%	OKAY
Sediment Storage Volume Provided, $V_{sediment}$ =	5,806	ft^3		
Ratio $V_{sediment}$ Provided to $V_{sediment}$ Required =	7.74		= 774%	OKAY

Step 5 - Outlet (Orifice) Sizing

Maximum Hydraulic Head, Hmax =	0.64	ft		
Orifice Coefficient, C =	0.6			
Target (Minimum) Draw-down Time, T_d =	48	hr		
Target Average Discharge, Q_{avg} =	0.02	cfs		
Average Hydraulic Head, H_{avg} =	0.32	ft		
Estimated Orifice Area, $A_{orifice}$ =	1.15	in^2	= 0.008	ft^2
Estimated Orifice Diameter, $D_{orifice}$ =	1.21	in	= 0.10	ft
Design Orifice Diameter, $D_{orifice}$ =	1.35	in	= 0.11	ft
Design Orifice Area, $A_{orifice}$ =	1.42	in^2	= 0.010	ft^2
Time to Completely Drain EDv, T_d =	62	hr	must be ≥ 48 hr	OKAY
Volume Drained in First 16 hr =	1,791	ft^3		
% of EDv =	47.7	%	must be ≤ 50%	OKAY



STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

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Design: NDT	Proj: 26143
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Date: 07.17.2026

Sheet: STORM WATER MGMT. PLAN

Sheet No.: C-7.2

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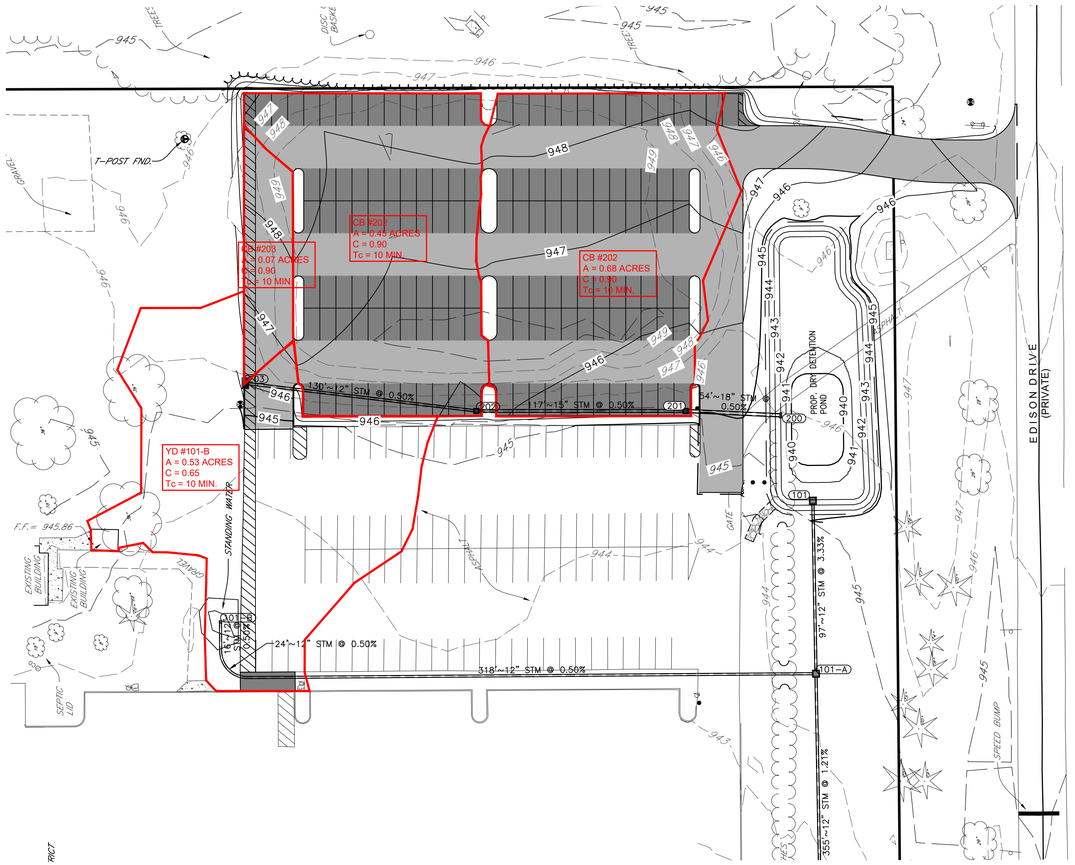


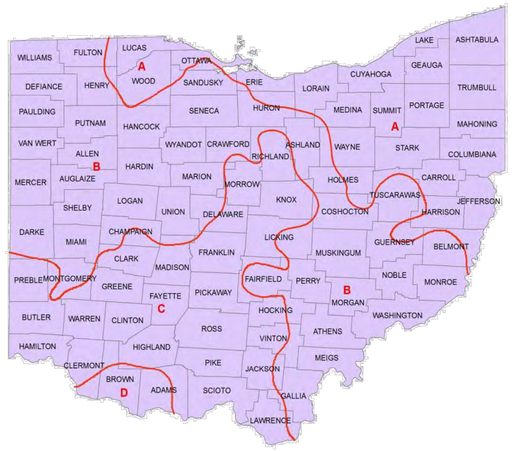
GRAPHIC SCALE

40 0 20 40

1 inch = 40 ft.

July 2022

Rainfall Intensity-Frequency-Duration Curves	1101-2
	REFERENCE SECTION 1101.2.3



Rainfall Intensity Zone Map

July 2022

Rainfall Intensity-Frequency-Duration Curves	1101-2
	REFERENCE SECTION 1101.2.3

The Rainfall Intensity-Duration-Frequency (IDF) curves are based upon precipitation data obtained from the National Oceanic and Atmospheric Administration (NOAA) Atlas 14. The precipitation data was collected between 4/1863 to 12/2000.

Rainfall depth varies across the State with more rainfall depth present in the Southwest portion of the state and gradually decreaseing towards the Northeast. IDF curves were developed for 4 regions across the State to simplify hydraulic design. The regions were determined by normalizing contours created from NOAA precipitation GIS data from the 10% AEP, 60 minute duration.

Federal Highway Administration Hydraulic Engineering Circular No. 12 Appendix A offers a methodology for converting IDF data points to an equation of the general form:

$i = a/(t+b)^c$

Where: i = rainfall intensity (inches/hour)
t = time of concentration (minutes)
a = constant
b = constant
c = constant

The IDF Curves can be expressed using the above general equation utilizing the constants shown below.

Intensity Zone	AEP %	Constant a	Constant b	Constant c
A	50	46.184	9.000	0.859
	20	56.985	10.250	0.851
	10	64.167	11.000	0.842
	4	66.528	11.000	0.811
	2	65.702	10.750	0.782
	1	64.489	10.500	0.754
B	50	47.987	9.000	0.859
	20	60.684	10.500	0.858
	10	73.126	12.000	0.863
	4	75.841	12.000	0.833
	2	65.621	10.000	0.781
	1	85.047	13.250	0.806
C	50	56.299	10.000	0.876
	20	67.933	11.000	0.869
	10	84.550	13.000	0.882
	4	95.736	14.000	0.871
	2	96.783	14.000	0.850
	1	80.436	11.500	0.794
D	50	57.448	10.000	0.876
	20	67.933	11.000	0.869
	10	79.192	12.000	0.864
	4	87.886	12.750	0.849
	2	95.169	13.500	0.839
	1	91.982	13.000	0.810

UVCC PARKING EXPANSION

Project No. ~ 26143

STORM SEWER CALCS

OHIO AREA: C

CAPACITY CHECK: 10 YEAR

HYDRAULIC GRADE LINE CHECK: 100 YEAR

IDF Constants: (10-YEAR) a: 84.550 b: 13.000 c: 0.882

IDF Constants: (100-YEAR) a: 80.436 b: 11.500 c: 0.794

INLET LOC. (DES. PT.)	DESCRIPTION	OVERLAND FLOW TIME	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	DOWNSTREAM INLET	TRAVEL TIME	RUNNOFF COOEF. C	DRAINAGE AREA A	CA	SUM CA	INLET/CONDUIT TRAVEL TIME	TIME OF CONCENTRATION Tc	RAINFALL INT 10-YR FREQ. I	RAINFALL INT 100-YR FREQ. I	10-YEAR RUNOFF	100-YEAR RUNOFF	PIPE DIAMETER	LOW INVERT AT STRUCTURE	DOWNSTREAM INVERT	LENGTH, L	SLOPE	MANNING COEFF., n	GRATE OR TOP ELEV.	A (PIPE AREA)	R (HYDRAULIC RADIUS)	K	FRICTION SLOPE (100-YEAR)	Q/Qfull (100-YEAR)	y/Do	NORMAL DEPTH (100-YEAR)	TAILWATER ELEV (100-YEAR)	Hlf (HEAD LOSS DUE TO FRICTION)	HYDRAULIC GRADE LINE	HGL CHECK (100-YEAR)	JUST FULL VELOCITY	JUST FULL CAPACITY	CAPACITY CHECK (10-YEAR)	PERCENT CAPACITY (10-YEAR)
		MIN.					MIN		ACRES			MIN.	MIN.	IN/HR	IN/HR	CFS	CFS	IN.	FT.	FT.	FT.	%		FT	SF	FT		FT/FT	CFS/CFS	FT/FT	FT.	FT.	FT.	FT.	OK OR BAD	FPS	CFS	OK OR BAD	%
X	X	X	X	X	X	X	X	X	X									X	X	X	X	X	X	X							X								
1	CB #203	10				2	**0.62**	0.90	0.070	**0.063**	**0.063**	**0.00**	**10.00**	**5.32**	**7.04**	**0.34**	**0.44**	12	943.80	943.15	130.0	0.50%	0.012	946.00	**0.785**	**0.250**	**38.597**	**0.000**	**0.051**	**0.270**	**0.270**	943.85	**0.017**	**944.115**	OK	**3.48**	**2.74**	OK	12.3%
2	CB #202	10	1			3	**0.48**	0.90	0.450	**0.405**	**0.468**	**0.62**	**10.62**	**5.20**	**6.88**	**2.43**	**3.22**	15	942.85	942.27	117.0	0.50%	0.012	945.76	**1.227**	**0.313**	**69.981**	**0.002**	**0.202**	**0.580**	**0.725**	943.85	**0.248**	**944.098**	OK	**4.04**	**4.96**	OK	49.0%
3	CB #201	10	2			OUTFALL	**0.21**	0.90	0.680	**0.612**	**1.080**	**0.48**	**11.10**	**5.11**	**6.76**	**5.51**	**7.31**	18	942.02	941.75	58.0	0.50%	0.012	945.16	**1.767**	**0.375**	**113.797**	**0.004**	**0.282**	**0.740**	**1.110**	943.85	**0.239**	**943.850**	OK	**4.57**	**8.07**	OK	68.4%
4	YD #101-B	10				OUTFALL	**1.64**	0.65	0.530	**0.345**	**0.345**	**0.00**	**10.00**	**5.32**	**7.04**	**1.83**	**2.42**	12	940.07	938.28	342.0	0.50%	0.012	942.88	**0.785**	**0.250**	**38.597**	**0.004**	**0.276**	**0.730**	**0.730**	939.00	**1.350**	**940.800**	OK	**3.48**	**2.74**	OK	67.0%

811 Know what's below. Call before you dig.

W:\Civil 3D Projects\26143 - UVCC Parking Expansion_CAD\CIVIL\Sheets\26143_DRAINAGE.dwg 7/13/2026 2:03 PM Nathan

STATE OF OHIO — STEVEN R. FOX E-82926 — REGISTERED PROFESSIONAL ENGINEER

Item	Description	Date
1	BID & PERMIT	07/17/2026

SITE DEVELOPMENT PLANS FOR:

UPPER VALLEY CAREER CENTER PARKING EXPANSION

8811 CAREER DRIVE

CITY OF PIQUA, MIAMI COUNTY, OHIO

BURKHARDT ENGINEERS • SURVEYORS
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0060 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

Design: NDT	Proj: 26143
Draw: NDT	Dwg:
Check: SRF	Tab:
Scale: SEE SHEET	

Date: 07.17.2026

Sheet: STORM SEWER CALCULATIONS

Sheet No.: C-7.3

GENERAL NOTES

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.

B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.

C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.

E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.

F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.

G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

I. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.

B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE.

C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.

D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.

E. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, FIXTURES, ETC., WHERE CONFLICT ARISES.

F. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIENT HEATERS SHALL BE LISTED FOR THE APPLICATION.

G. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND FOR 277 VOLT CIRCUITS SHALL BE GRAY COLOR.

H. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.

I. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.

J. ALL CONDUITS INSTALLED ON EXTERIOR SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.

K. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.

L. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.

M. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.

N. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
GC	GENERAL CONTRACTOR.
NIC	NOT IN CONTRACT.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
⟨3⟩	NOTE SYMBOL – APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
(2)	DETAIL NOTE SYMBOL – APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- - - - -	ITEM TO BE REMOVED.
———	EXISTING ITEM TO REMAIN.
———	NEW ITEM.

ELECTRICAL LEGEND

	ELECTRICAL CONNECTION REQUIRED.
H1 B1 a b	LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURE TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
—— E ——	EXISTING WIRE & CONDUIT.
A-1&2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
———	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
- - - - -	WIRE & CONDUIT IN OR BELOW SLAB OR BELOW GRADE.
J	JUNCTION BOX.
H	DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
H E	EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
H	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
H D	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.). D = DOUBLE DUPLEX.
H WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
	SINGLE POLE WALL SWITCH (46" M.H.).

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE TYPE: LED	FLUORESCENT	HALOGEN	WATTS/FIXTURE	LUMENS / COLOR TEMP	FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURERS	DIFFUSING MEDIA	TRIM COLOR: WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTE	MOUNTING	SIZE: DIAMETER OR WIDTH	LENGTH	DEPTH	DIAMETER	SEE NOTE	SPARE FIXTURE (QTY)
																S - SURFACE R- RECESSED SM- STEM MTD. WM- WALL MTD. C- CHAIN MTD. UC- UNDER CAB CS- CLG. SURF.							
PL	•			210	28000 LUMENS/ 4000K	480	LITHONIA RSX2-LED-P5-40K-R3-HVOLT-RPA-DDBXD REPLACEMENT LUMINAIRE	BEACON	CUTOFF CLEAR LENS				•			EXISTING 25' POLE	14	30	3			1,2
PL2	•			210	28000 LUMENS/ (X2) 4000K	480	LITHONIA RSX2-LED-P5-40K-R3-HVOLT-RPA-DDBXD (QTY 2) AND LITHONIA RSA-25-6E-DM28AS-VD-DDBXD ROUND STRAIGHT ALUMINUM POLE	BEACON	CUTOFF CLEAR LENS				•			25' POLE	14	30	3			

LIGHTING FIXTURE NOTES:

1. REPLACEMENT LUMINAIRES INSTALLED ON EXISTING 25' LITHONIA 6" DIA. POLE.
2. PROVIDE MOUNTING FOR EXISTING 6" DIA. ROUND STRAIGHT ALUMINUM POLE.

STATE OF OHIO
JEFFREY D ZELINSKI
63822

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

REVISIONS:

PRINTING:
7-22-26 CONSTRUCTION DOCUMENTS

UPPER VALLEY CAREER CENTER
PARKING LOT EXPANSION
8811 CAREER DRIVE
PIQUA, OHIO 45356

PROJECT NO: 263321.00
CHECKED BY: MM
DRAWN BY: DC
DATE: 07-22-26

LEVIN PORTER ARCHITECTS
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MIAMISBURG, OHIO 45342
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P: 937.224.1931
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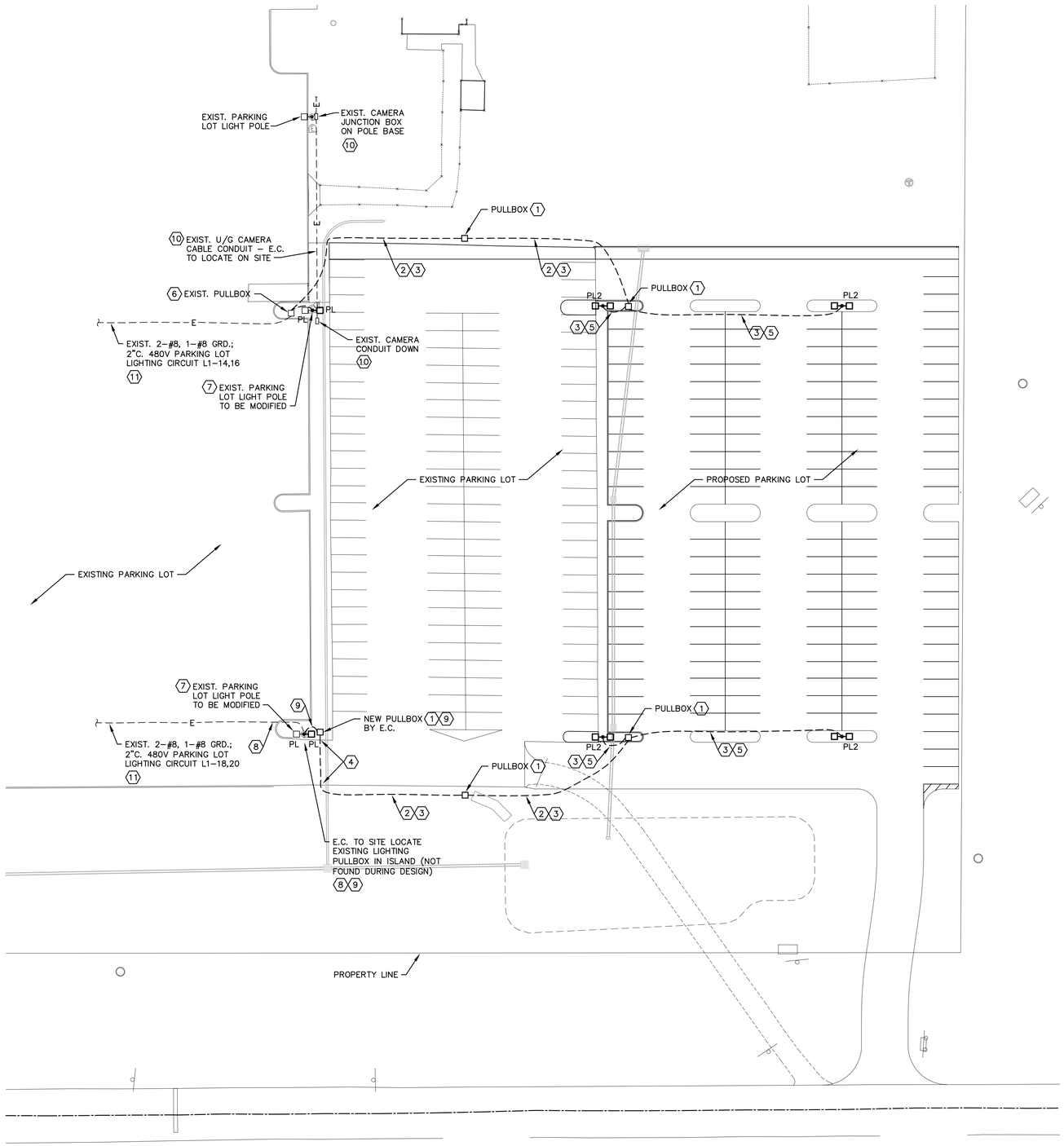
Levin Porter Associates Inc. dba Levin Porter Architects

DRAWING NUMBER

E0.1

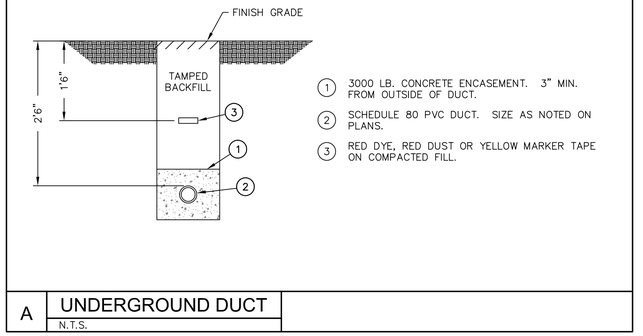


SITE PLAN

SCALE: 1" = 30'-0"

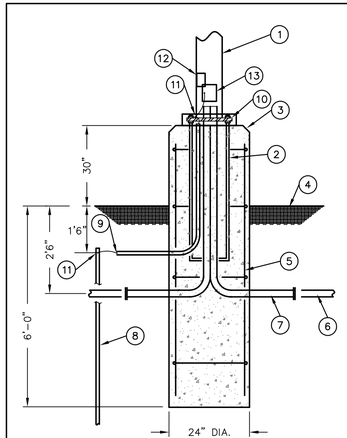
CONSTRUCTION NOTES

1. PRECAST COMPOSITE PULLBOX AND COVER 12"x12"x12"DP WITH HEAVY DUTY COVER IMPRINTED "ELECTRIC". QUAZITE PG1212BA12 WITH PG1212CAOO BOLTED COVER IMPRINTED "ELECTRIC".
2. DIRECT BURIAL SCHEDULE 80 PVC CONDUIT: 1.5"C. SIZE UNLESS OTHERWISE NOTED.
3. ALL WIRING #8 AWG SIZE (INCLUDING GROUND) SERVING EXTERIOR FIXTURES.
4. BORE OR CUT AND PATCH DRIVE FOR NEW CONDUIT(S).
5. DIRECT BURIED 1" SCHEDULE 80 PVC CONDUIT FROM PULLBOX TO POLE FIXTURE.
6. TERMINATE NEW CONDUIT INTO EXISTING PULLBOX.
7. REMOVE (1) EXISTING 400 WATT METAL HALIDE LUMINAIRE AND INSTALL TWO NEW TYPE 'PL' LUMINAIRIES (1 IN EXISTING POSITION; 1 – 180 DEGREES OPPOSITE FACING EAST. DRILL POLE AS REQUIRED.
8. E.C. TO TRACE EXISTING 2–1"C. TO POLE IN FIELD LOCATE EXISTING OUTDOOR LIGHTING PULLBOX IN ISLAND – CONNECT NEW 1.5"C. TO EXISTING PULLBOX IF FOUND.
9. IF EXISTING PULLBOX IS NOT FOUND E.C. TO PROVIDE NEW PULLBOX IN ISLAND AND EXTEND 1" R.G.C. FROM PULLBOX ATTACHED TO EXISTING CONCRETE BASE AND 1" L–B FITTING INTO EXISTING POLE. CONNECT 2–#8; 1–#8 GRD. TO EXISTING 480V SUPPLY CIRCUIT AND EXTEND TO NEW PULLBOX AND NEW POLE FIXTURES.
10. E.C. TO SITE LOCATE EXISTING U/G CAMERA CABLE CONDUIT PRIOR TO EXCAVATION AND PROTECT FROM DAMAGE.
11. EXISTING 480V–1PH PARKING LOT LIGHTING SUPPLY CIRCUIT FROM 480Y/277V PANELBOARD IN MAIN ELECTRIC ROOM. CIRCUIT SERVES FOUR (4) 'EXISTING TO REMAIN' 400 WATT METAL HALIDE FIXTURES AND SIX (6) NEW LED FIXTURES. TOTAL LOAD = (4 x 450 = 1800 VA EXISTING) + (6 x 210 = 1260 VA NEW) TOTAL 3060 VA; 6.4 AMP LOAD ON 480 VOLT 20A CIRCUIT.



1 3000 LB. CONCRETE ENCASEMENT. 3" MIN. FROM OUTSIDE OF DUCT.
2 SCHEDULE 80 PVC DUCT. SIZE AS NOTED ON PLANS.
3 RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

A UNDERGROUND DUCT
N.T.S.



1 SEE FIXTURE SCHEDULE FOR POLE AND FIXTURE ASSEMBLY.
2 ANCHOR BOLTS BY POLE SUPPLIER, WELD TO REBARS.
3 CHAMFERED EDGE.
4 FINISH GRADE, COMPACT TO 95%.
5 SIX #4 REINFORCING BARS VERTICALLY ON #3 STIRRUPS AT 18" O.C.
6 PVC CONDUIT, SCHEDULE 40.
7 RIGID GALVANIZED STEEL CONDUIT.
8 GROUND ROD.
9 0.50" PVC GROUND CONDUCTOR SLEEVE WITH #8 GROUND CONDUCTOR.
10 BASE PLATE, LEVELING NUTS, GROUT BASE.
11 EXOTHERMICALLY WELDEED GROUND CONNECTION.
12 LIGHTNING ARRESTOR.
13 HANDHOLE.

B TYPICAL POLE BASE DETAIL - RAISED
N.T.S.

0 15 30 60 90 120 150
SCALE: 1"=30'–0"

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DRAWING NUMBER
E1.0