

LOCATION MAP  
NO SCALE

# AVONDALE WOODS SECTION 2

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
FINAL DEVELOPMENT PLAN

PREPARED FOR:  
HOMEWOOD CORPORATION  
2700 E. DUBLIN-GRANVILLE ROAD SUITE 300  
COLUMBUS, OHIO 43231

FIRST SUBMITTAL:  
APRIL 8, 2022  
SECOND SUBMITTAL:  
AUGUST 2, 2022



Evans, Mechwart, Hambleton & Tilton, Inc.  
Engineers • Surveyors • Planners • Scientists  
5500 New Albany Road, Columbus, OH 43054  
Phone: 614.775.4500 Toll Free: 888.775.3648  
[emht.com](http://emht.com)

## INDEX OF DRAWINGS

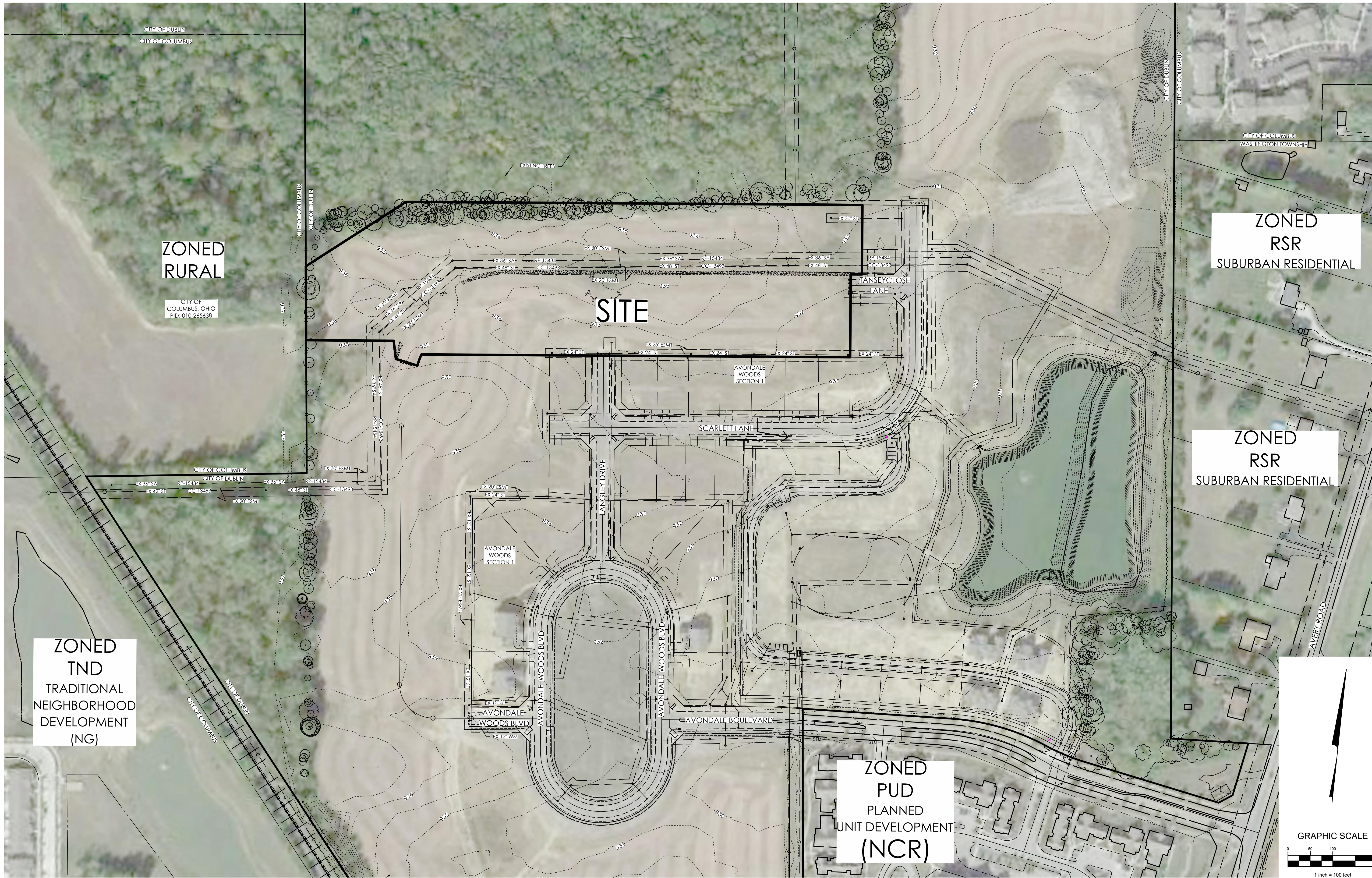
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3. OVERALL SITE PLAN
4. SITE PLAN ENLARGEMENT
5. TREE SURVEY & REMOVAL PLAN
6. TREE SURVEY LIST
7. PEDESTRIAN AND BIKE PATH PLAN
8. STREET TREE AND TREE REPLACEMENT PLAN







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**ZONED RURAL**

CITY OF COLUMBUS, OHIO  
PID: 010-265638

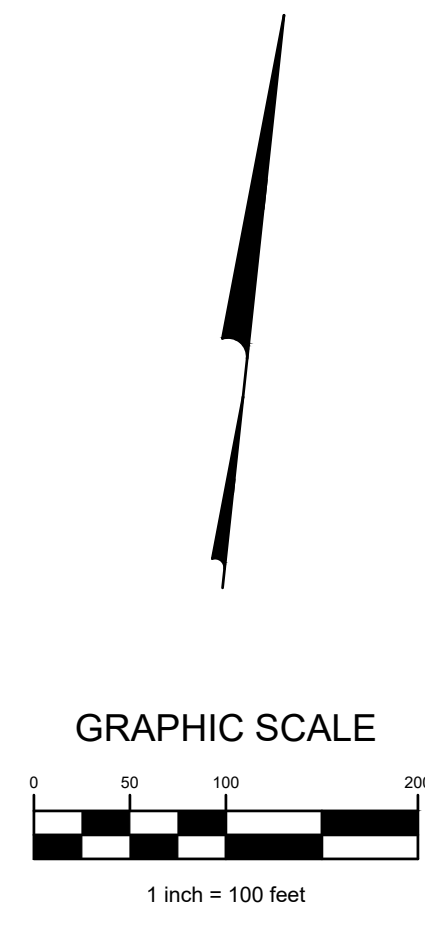
**SITE**

**ZONED RSR  
SUBURBAN RESIDENTIAL**

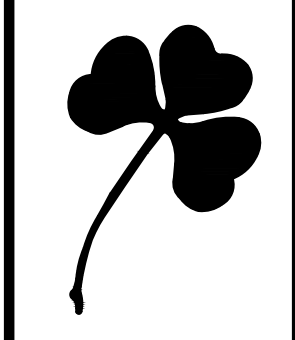
**ZONED RSR  
SUBURBAN RESIDENTIAL**

**ZONED TND  
TRADITIONAL NEIGHBORHOOD DEVELOPMENT (NG)**

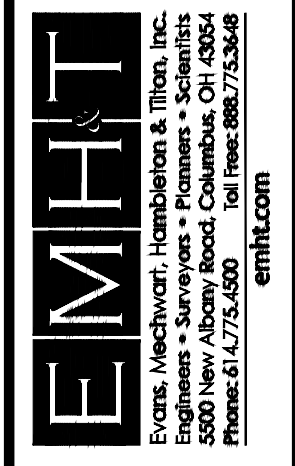
**ZONED PUD  
PLANNED UNIT DEVELOPMENT (NCR)**



MARK	DATE	DESCRIPTION



CITY OF DUBLIN, UNION COUNTY, OHIO  
FINAL DEVELOPMENT PLAN  
FOR  
**AVONDALE WOODS SECTION 2**  
EXISTING CONDITIONS



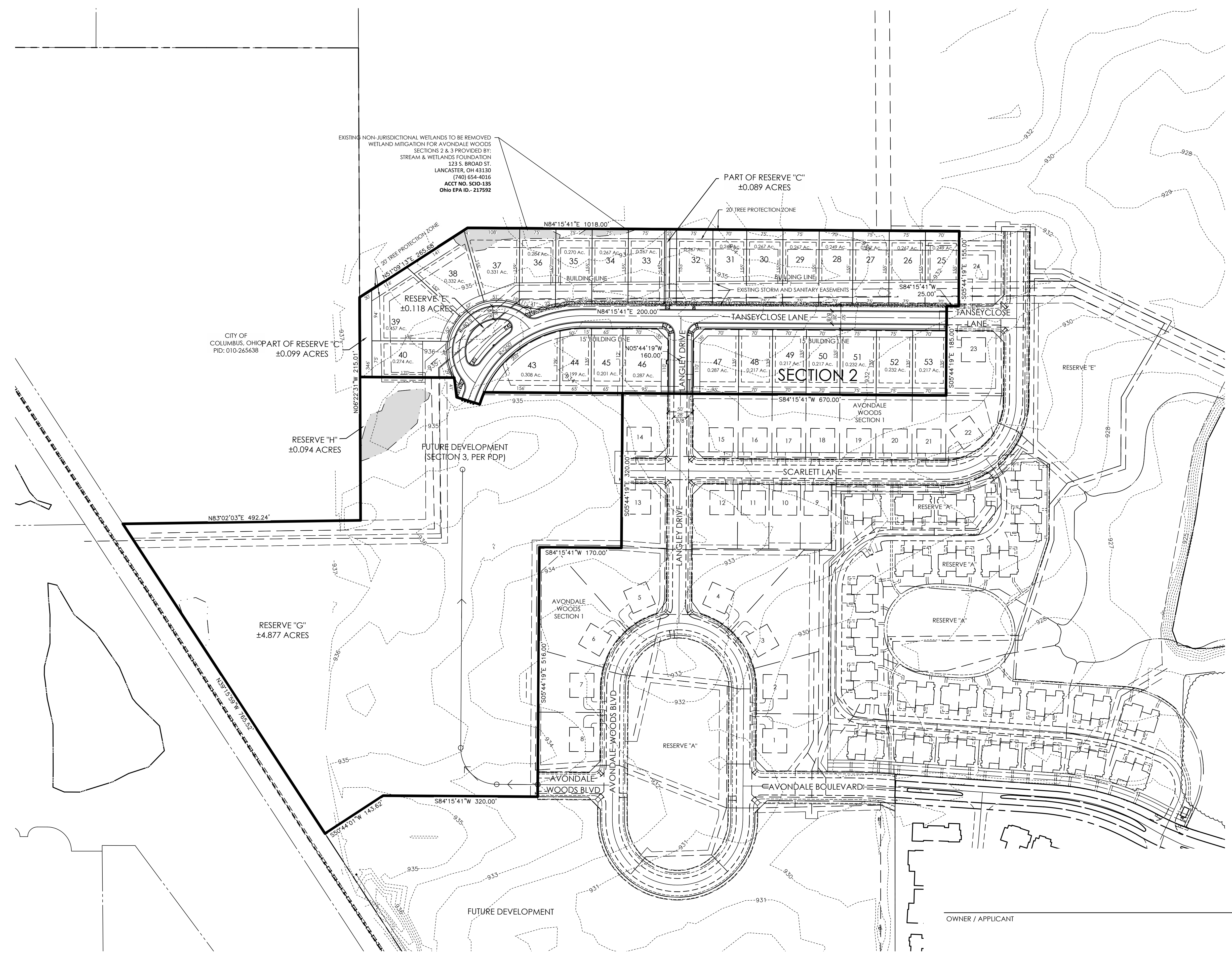
DATE	AUGUST 2, 2022
SCALE	1" = 100'
JOB NO.	20201174
SHEET	2/8



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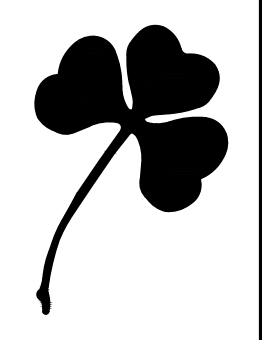
**SITE STATISTICS:**

SECTION 2:	±9.088 ACRES
PROPOSED R/W:	±1.602 ACRES
PROPOSED OPEN SPACE:	±0.218 ACRES
PROPOSED LOTS:	±7.268 ACRES
NUMBER OF LOTS:	27
GROSS DENSITY:	±2.97 LOT/ACRE
ZONING CLASSIFICATION:	PUD



**REVISIONS**

MARK	DATE	DESCRIPTION



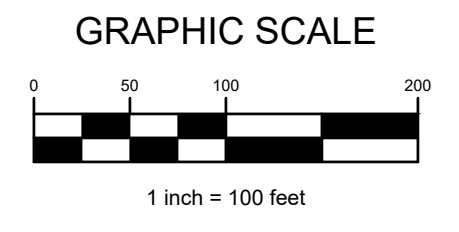
CITY OF DUBLIN, UNION COUNTY, OHIO  
FINAL DEVELOPMENT PLAN  
FOR  
**AVONDALE WOODS SECTION 2**  
OVERALL SITE PLAN

**EMHT**  
E.M.H.T. Inc.  
Engineers • Surveyors • Planners • Scientists  
5000 New Albany Road, Columbus, OH 43254  
Phone: 614.757.5000 Fax: 614.757.5001 emht.com

DATE	AUGUST 2, 2022
SCALE	1" = 100'
JOB NO.	20201174
SHEET	3/8

OWNER / APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

ZONING COMMISSION SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_











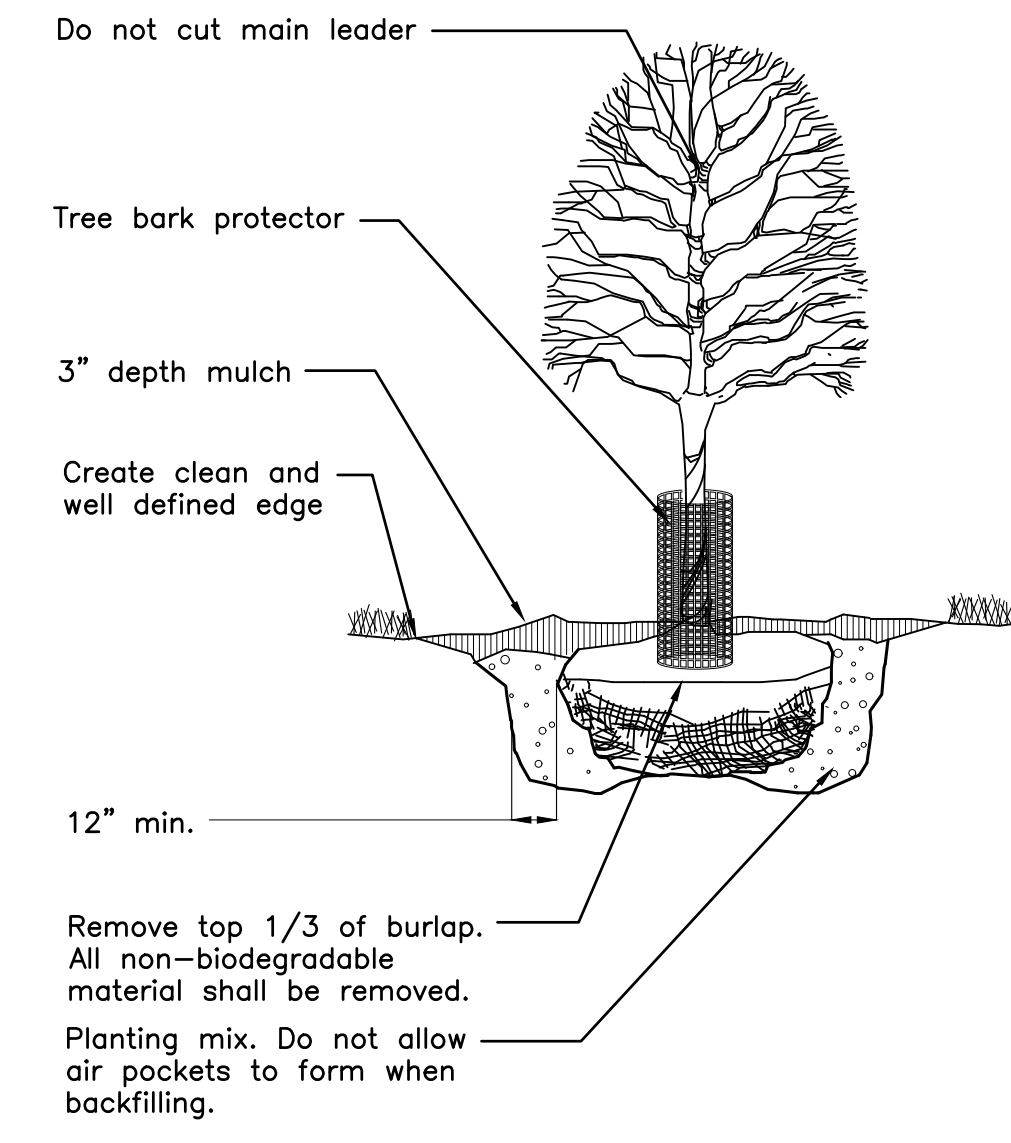
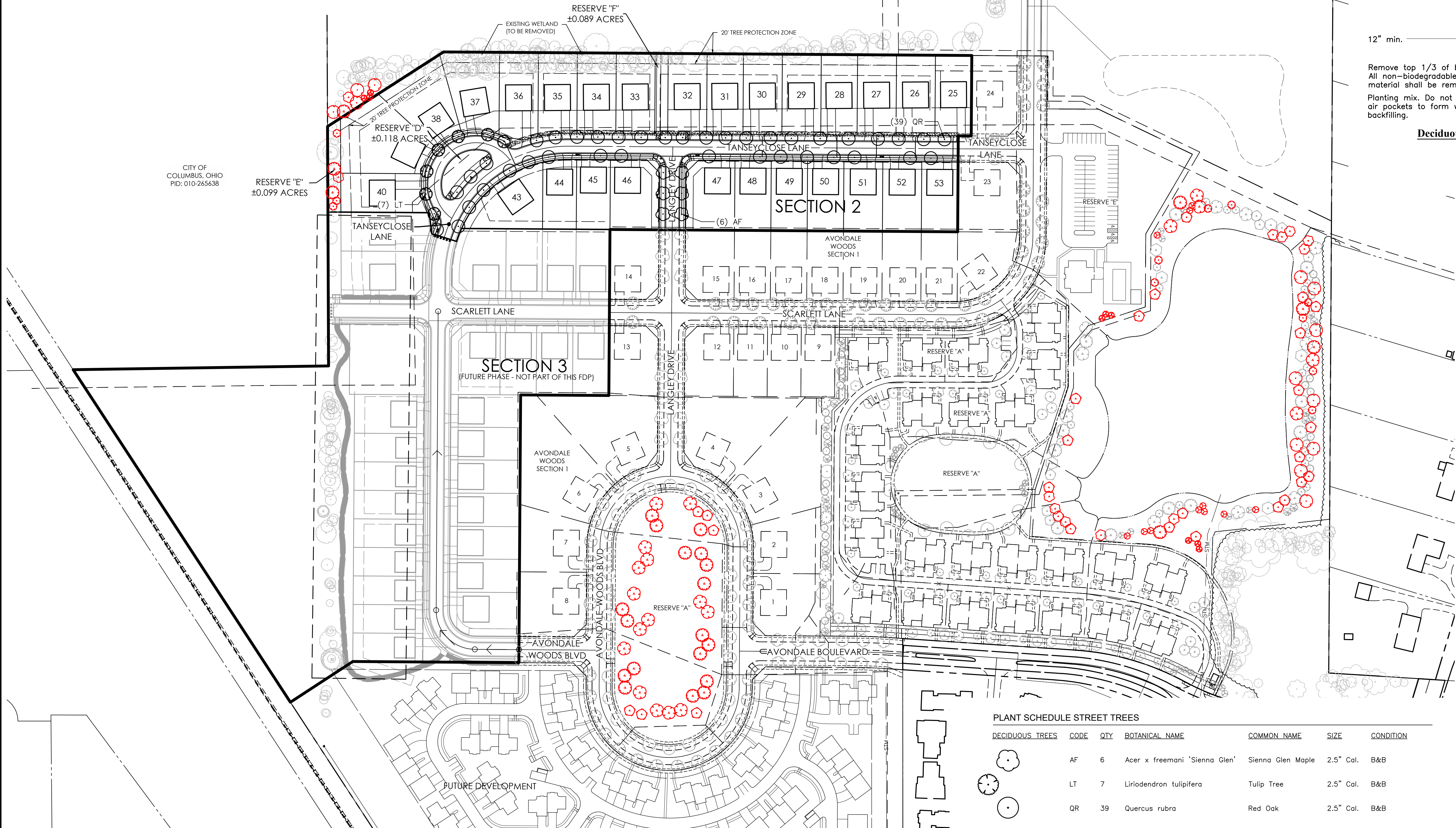






PLANT SCHEDULE SECTION 2 TREE REPLACEMENT

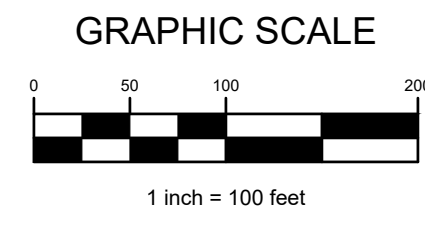
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
	BD	27	Betula nigra 'Heritage'	Heritage River Birch	10'-12' HT.	B&B	Multi-Stemmed
	GB	13	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	3" Cal.	B&B	
	LS	25	Liquidambar styraciflua	American Sweet Gum	3" Cal.	B&B	
	QB	20	Quercus bicolor	Swamp White Oak	3" Cal.	B&B	
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
	AL	11	Amelanchier laevis	Allegheny Serviceberry	6'-8' HT.	B&B	Multi-Stemmed
	CV	12	Crataegus viridis 'Winter King'	Winter King Hawthorn	3" Cal.	B&B	Tree Form
	MS	11	Magnolia x soulangiana	Saucer Magnolia	6'-8' HT.	B&B	Multi-Stemmed
	CA	9	Malus x 'Spring Snow'	Spring Snow Crab Apple	3" Cal.	B&B	Clump Form



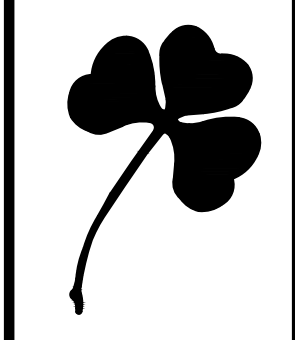
**Deciduous Tree Planting**  
No Scale

PLANT SCHEDULE STREET TREES

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	AF	6	Acer x freemani 'Sienna Glen'	Sienna Glen Maple	2.5" Cal.	B&B
	LT	7	Liriodendron tulipifera	Tulip Tree	2.5" Cal.	B&B
	QR	39	Quercus rubra	Red Oak	2.5" Cal.	B&B



MARK	DATE	DESCRIPTION



CITY OF DUBLIN, UNION COUNTY, OHIO  
FINAL DEVELOPMENT PLAN  
FOR  
**AVONDALE WOODS SECTION 2**  
STREET TREE AND TREE REPLACEMENT PLAN

**EMHT**  
ENGINEERS, ARCHITECTS, SURVEYORS & PLANNERS  
5000 New Albany Road, Columbus, OH 43254  
Phone: 614.752.5500 Fax: 614.752.5505  
emht.com

DATE  
AUGUST 2, 2022

SCALE  
1" = 100'

JOB NO.  
20201174

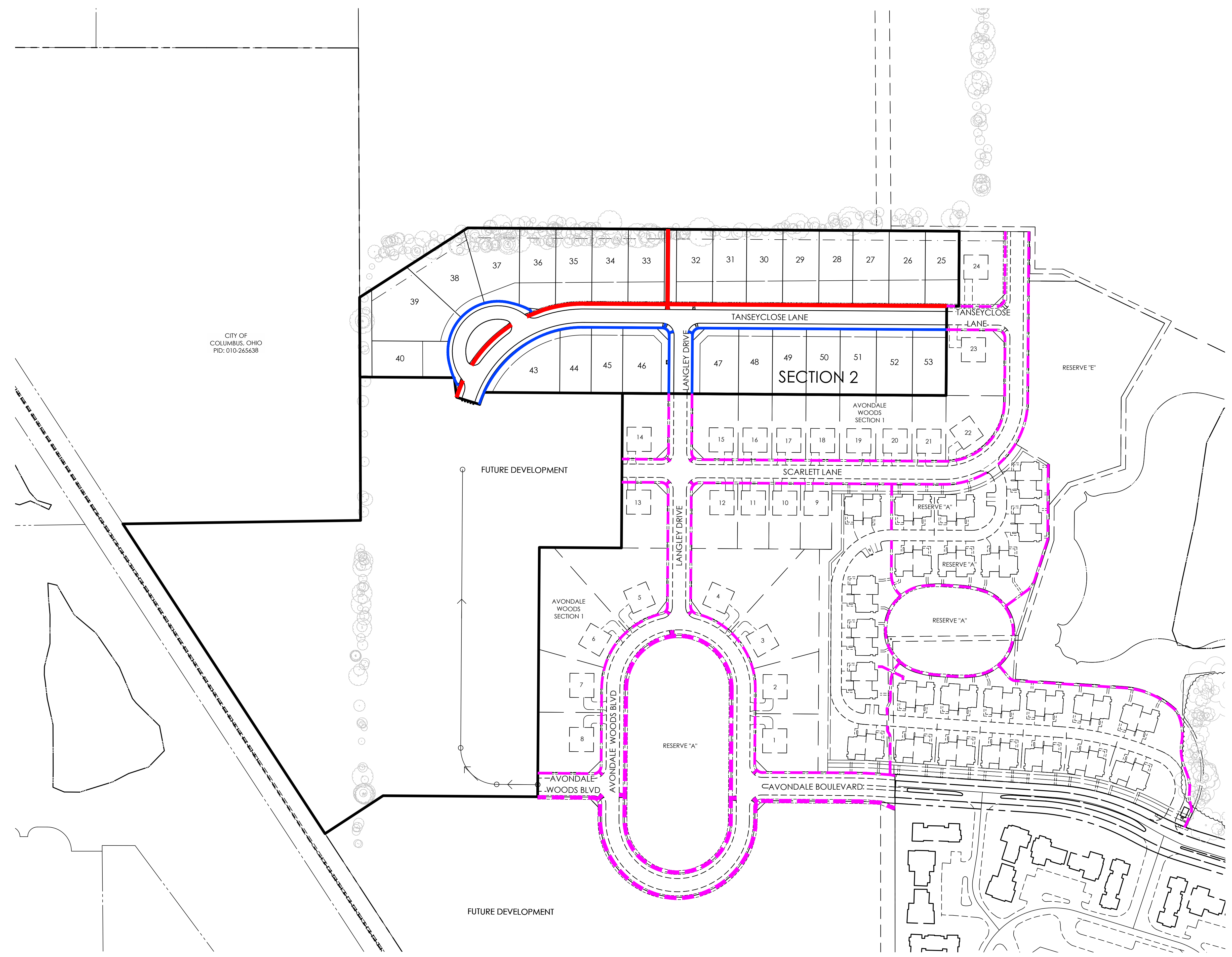
SHEET  
7/8

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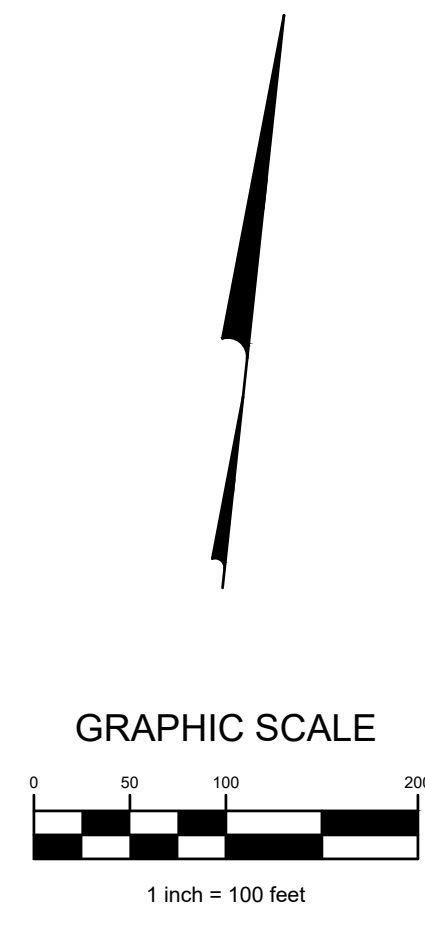


J:\2020117A\04sheets\final development plan -- resubmittal\8 Pedestrian and Bike Path Plan.dwg, Last Saved By: johnson, 7/29/2022 12:42 PM, Last Printed By: Johnson, Joseph, 12/20/2022 2:52 PM (No Xrefs)

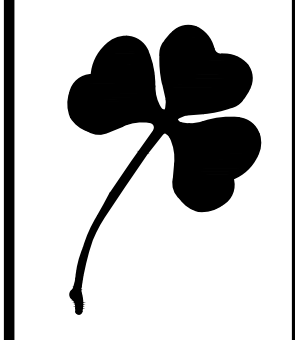
**KEY:**  
 BIKE PATH  
 SIDEWALKS  
 EXISTING PATHS



CITY OF COLUMBUS, OHIO  
 PID: 010-265638



MARK	DATE	DESCRIPTION



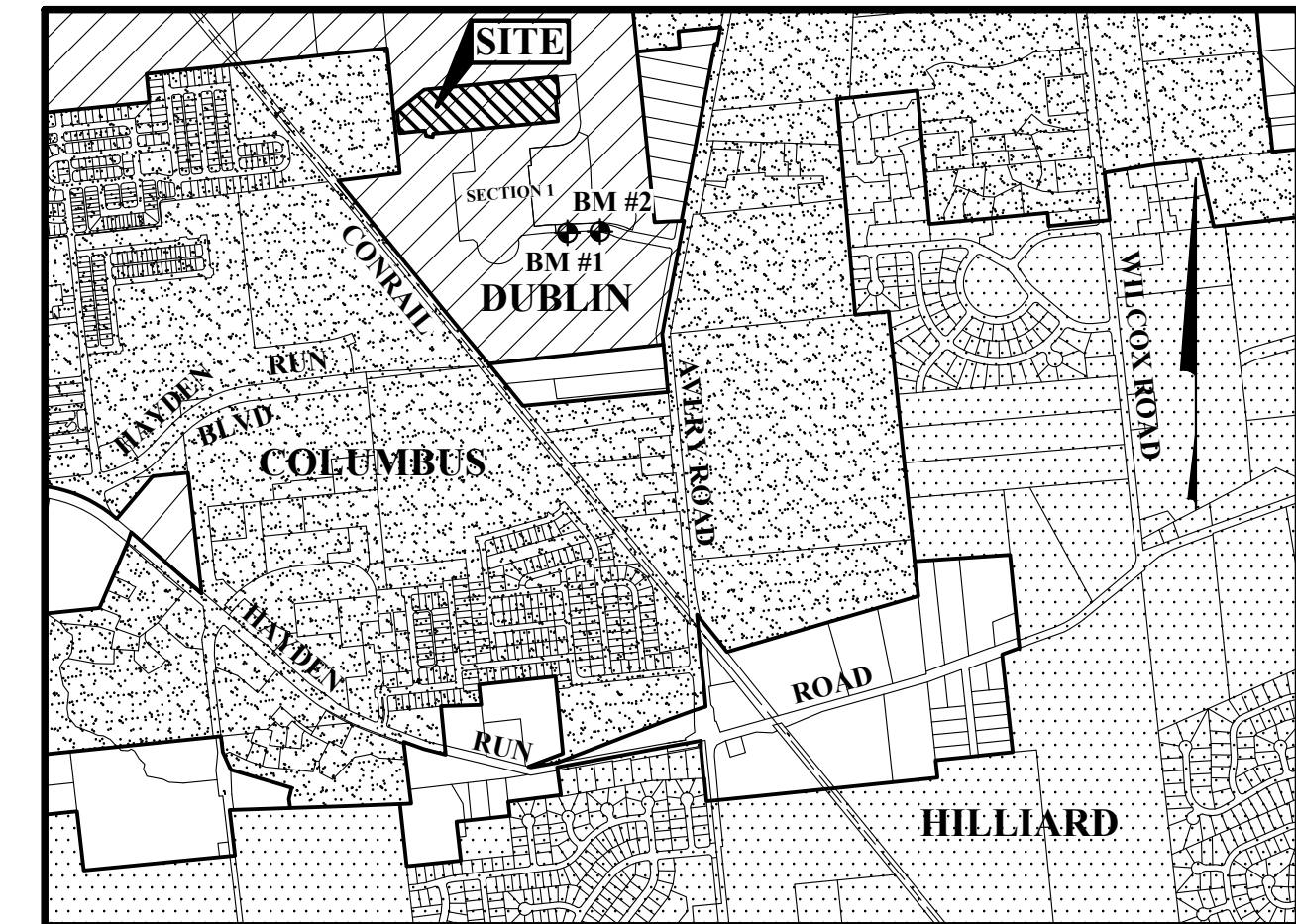
CITY OF DUBLIN, UNION COUNTY, OHIO  
 FINAL DEVELOPMENT PLAN  
 FOR  
**AVONDALE WOODS SECTION 2**  
 PEDESTRIAN AND BIKE PATH PLAN

**EMHT**  
 ENGINEERS, ARCHITECTS, SURVEYORS & PLANNERS  
 5800 New Albany Road, Columbus, OH 43254  
 Phone: 614.757.5000 Fax: 614.757.5001  
 emht.com

DATE	AUGUST 2, 2022
SCALE	1" = 100'
JOB NO.	20201174
SHEET	8/8



# CITY OF DUBLIN, FRANKLIN COUNTY, OHIO PUBLIC SANITARY SEWER IMPROVEMENTS FOR **AVONDALE WOODS SECTION 2** 2022



**LOCATION MAP**  
Not to Scale

**SHEET INDEX**

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GENERAL NOTES, QUANTITIES, & DETAILS.....	2
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SANITARY TRIBUTARY MAP.....	5

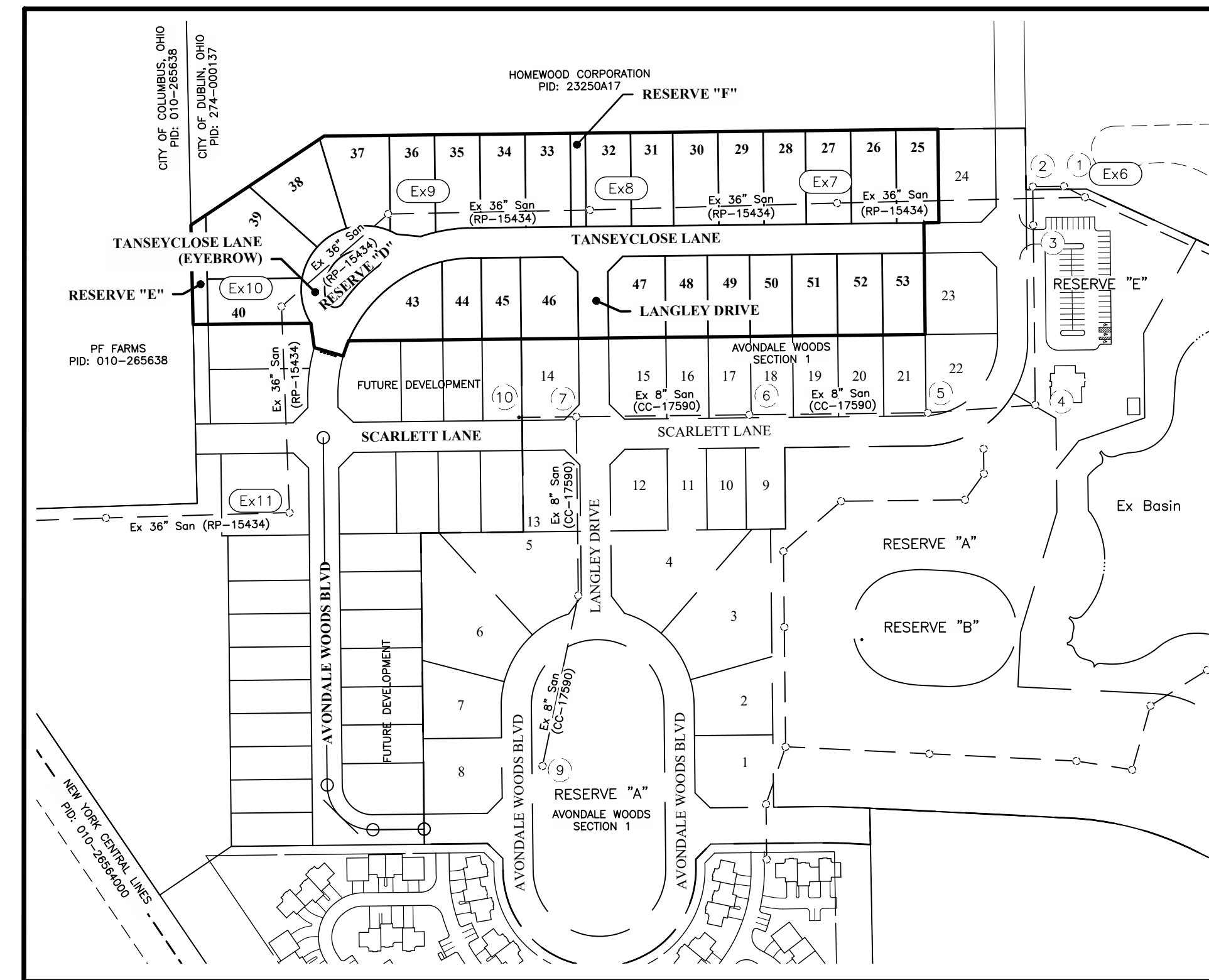
**STANDARD CONSTRUCTION DRAWINGS**

The Standard Construction Drawings listed on these plans are to be considered a part thereof.

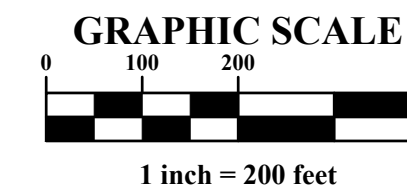
CITY OF DUBLIN	CITY OF COLUMBUS
SA-03	AA-S150      AA-S160 AA-S151      AA-S161

**BENCH MARKS**  
(NAVD 1988)

Source BM FCGS 8847	Aluminum cap in concrete monument, at the centerline intersection of Avery Road North, Rings Road West and Cara Road East, access through F.C. Road monuments box. Monument replaces a found 2" hollow iron pin 10 inches deep.  Elev = 923.09
BM#1	Chiseled "X" on the north flange bolt of the first fire hydrant west of the intersection of Avondale Woods Boulevard and Channel Lane, being on the south side of Avondale Woods Boulevard.  Elev = 932.79
BM#2	Chiseled "X" on the north flange bolt of the first fire hydrant east of the intersection of Avondale Woods Boulevard and Channel Lane, being on the south side of Avondale Woods Boulevard.  Elev = 932.13



**INDEX MAP**  
Scale: 1" = 200'



**GPS HORIZONTAL AND VERTICAL NOTES**

**OPUS/NGS Horizontal**  
The coordinates shown on this map are based on the Ohio State Plane Coordinate System, South Zone, NAD 83 (2011). Said coordinates originated from a field traverse which was tied (referenced) to said coordinate system by positional solutions derived by the National Geodetic Survey's Online Positioning Users Service software using GPS observations at traverse control points numbered 18 and 22 and observations of selected CORS base stations in the National Spatial Reference System. The grid to ground scale factor (1.00003332397595) was applied at the location of point number 22.

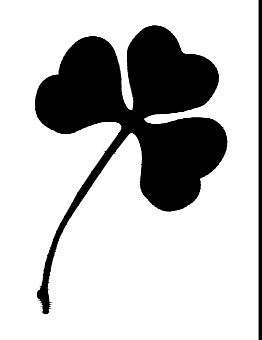
**Vertical**  
The Vertical Datum is based on the elevation established by the Franklin County Engineering Department at monument 8847, being 923.095 feet in elevation, and at monument 8855, being 927.054 feet in elevation. The said elevations were transferred from Franklin County Engineering Department monuments using differential leveling procedures to the site, from Job # 20051807. The said monuments being source benchmarks with elevations that are based on the North American Vertical Datum of 1988.



**NOTE:**  
THIS SANITARY SEWER MEETS OR EXCEEDS CITY OF COLUMBUS DESIGN STANDARDS (INCLUDING PER CAPITA FLOW, PEAKING FACTOR AND 1/I ALLOWANCE) AND MATERIAL SPECIFICATIONS.

PRELIMINARY  
NOT TO BE USED FOR  
CONSTRUCTION  
PLAN SET DATE  
DECEMBER 20, 2022

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
PUBLIC SANITARY SEWER IMPROVEMENTS  
FOR  
**AVONDALE WOODS SECTION 2**  
TITLE SHEET

**DEVELOPER/OWNER**

HOMEWOOD CORPORATION  
Tom Tolbert  
2700 E. Dublin-Granville Road  
Suite 300  
Columbus, Ohio 43231  
Tel: (614) 898-7200  
Fax: (614) 451-1197

**PREPARED BY:**

**EMHT**  
Evans, Mechwart, Hambilton & Titon, Inc.  
Engineers • Surveyors • Planners • Scientists  
5500 New Albany Road, Columbus, OH 43054  
Phone: 614.776.4300    Toll Free: 888.776.3648  
emht.com

REGISTERED ENGINEER NO. \_\_\_\_\_ DATE \_\_\_\_\_

**APPROVED:**

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

**CITY OF DUBLIN:**

\_\_\_\_\_  
DIRECTOR OF ENGINEERING / CITY ENGINEER, CITY OF DUBLIN, OHIO      DATE \_\_\_\_\_  
PAUL A. HAMMERSMITH, P.E.

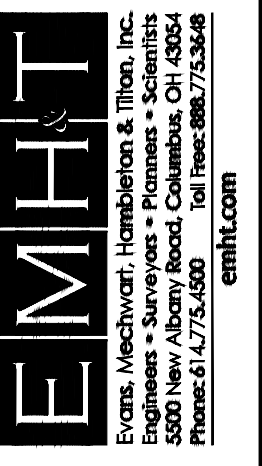
**CITY OF COLUMBUS:**

APPROVAL ON THE PART OF CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE SEWER SERVICE AGREEMENT WITH THE CITY OF DUBLIN ON APRIL 13, 1993, ORDINANCE NO. 2692-92, AND ALL SUBSEQUENT AMENDMENTS THEREOF.

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

\_\_\_\_\_  
DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES      DATE \_\_\_\_\_  
CITY OF COLUMBUS, OHIO

\_\_\_\_\_  
ADMINISTRATOR, DIVISION OF SEWERS AND DRAINS      DATE \_\_\_\_\_  
CITY OF COLUMBUS, OHIO



DATE	DECEMBER 20, 2022
SCALE	AS NOTED
JOB NO.	2020-1174
SHEET	1/5

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**GENERAL NOTES**

- City of Columbus and Ohio Department of Transportation Construction and Material Specifications, current editions, and any supplements thereto (hereafter referred to as Standard Specifications), shall govern all construction items unless otherwise noted. If a conflict between specifications is found, the more strict specification will apply as decided by the City Engineer. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted.
- The City Engineer will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The City Engineer will not be responsible for safety on the work site, or for failure by the Contractor to perform work according to contract documents.
- The Developer or Contractor shall be responsible to obtain all necessary permits including but not limited to Ohio EPA Permits to install (PTI) and Notices of Intent (NOI), Building Permits, etc.
- The Contractor shall notify the City of Dublin Division of Engineering in writing at least 3 working days prior to beginning construction.
- The Contractor shall be solely responsible for complying with all federal, state and local safety requirements including the Occupational Safety and Health Act of 1970. The Contractor shall exercise precaution always for the protection of persons (including employees) and property. It shall also be the sole responsibility of the Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.146.
- Following completion of construction of the site improvements and before requesting occupancy, a proof survey shall be provided to the Division of Engineering that documents "as-built" elevations, dimensions, slopes and alignments of all elements of this project. The proof survey shall be prepared, signed and submitted by the Professional Engineer who sealed the construction drawings.
- The Contractor shall restrict construction activity to public right-of-way and areas defined as permanent and/or temporary construction easements, unless otherwise authorized by the City Engineer.
- The Contractor shall carefully preserve benchmarks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the Contractor shall be responsible for restorations. Resetting of markers shall be performed by an Ohio Professional Surveyor as approved by the City Engineer.
- Non-rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the City Engineer.
- The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or watercourses that are disturbed by construction shall be restored to the grades and cross-sections that existed before construction.
- Tracking or spilling mud, dirt or debris upon streets, residential or commercial drives, sidewalks or bike paths is prohibited according to Section 97.38 of the Dublin Code of Ordinances. Any such occurrence shall be cleaned up immediately by the Contractor at no cost to the City. If the Contractor fails to remove silt, mud, dirt, debris, or spillage, the City reserves the right to remove these materials and clean affected areas, the cost of which shall be the responsibility of the Contractor.
- Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) is not permitted.
- All signs, landscaping, structures or other appurtenances within right-of-way disturbed or damaged during construction shall be replaced or repaired to the satisfaction of the City Engineer. The cost of this work shall be the responsibility of the Contractor.
- All field tile broken or encountered during excavation shall be replaced or repaired and connected to the public storm sewer system as directed by the City Engineer. The cost of this work shall be the responsibility of the Contractor.
- All precast concrete products shall be inspected at the location of manufacture. Approved precast concrete products will be stamped or have such identification noting that inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspection shall not be approved for installation.
- Backfill within a 1:1 influence line of existing structures (houses, garages, etc.) or public infrastructure (pavement, curbs, sidewalks, bike paths, etc.) shall be compacted granular backfill according to Item 912 of the Standard Specifications or Flowable CDF, Type II according to Item 613. Item 911 of the Standard Specifications shall be used elsewhere.
- The Contractor shall submit a copy of the approved construction drawings and a list of proposed precast concrete products to the City of Columbus Construction Inspection Division before commencing construction.

**UTILITIES**

- The following utilities are known to be located within the limits of this project:
  - Columbia Gas of Ohio  
Attn: Tammy Schmid  
200 Civic Center Dr., 4th Floor  
Columbus, Ohio 43215  
1-800-440-6111
  - American Electric Power  
Robin Hand  
Engineering Liaison Coordinator  
850 Tech Center Drive  
Gahanna, Ohio 43230-6605  
(614) 883-6829
  - City of Dublin Division of Engineering  
Paul Hammermith, P.E.  
5800 Shier Rings Road  
Dublin, Ohio 43016  
(614) 410-4600
  - Time Warner Cable  
Kevin Rich  
1266 Dublin Road  
Columbus, Ohio 43215  
(614) 481-5263
  - City of Columbus Division of Water  
910 Dublin Road, 2nd Floor  
Columbus, Ohio 43215  
(614) 645-7788
  - Ohio Edison  
Gary Smith  
1040 South Prospect Street  
Marion, Ohio 43302  
(740) 382-7104
  - Verizon  
Bill Muehler / Randy Brooks  
550 Leodner Street  
Marion, Ohio 43302  
(740) 383-0527
  - Wide Open West  
Ken Holderfield  
Engineering Manager  
3675 Corporate Drive  
Columbus, Ohio 43231  
(614) 236-3922

- The Contractor shall give notice of intent to construct to Ohio Utilities Protection Service (telephone number 800\_362\_2764), Producer's Underground Protection Service (telephone number 614\_587\_0486), and to owners of underground utilities that are not members of a registered underground protection service. Notice shall be given at least 2 working days before start of construction.
- The identity and locations of existing underground utilities in the construction area have been shown on the approved construction drawings as accurately as provided by the owner of the underground utility. The City of Dublin and the City Engineer assume no responsibility for the accuracy or depths of underground facilities shown on the approved construction drawings. If damage is caused, the Contractor shall be responsible for repair of the same and for any resulting contingent damage.
- Location, support, protection and restoration of all existing utilities and appurtenances, whether shown or not shown on the approved construction drawings, shall be the responsibility of the Contractor.
- When unknown or incorrectly located underground utilities are encountered during construction, the Contractor shall immediately notify the owner and the City Engineer.
- Public street lighting may be in the vicinity of this project. Contact the City of Dublin, Division of Engineering at 410-4637, two days prior to beginning work.

**TRAFFIC CONTROL**

- Traffic control shall be furnished, erected, maintained, and removed by the Contractor according to Ohio Manual of Uniform Traffic Control Devices (OMUTCD), current edition.
- All traffic lanes of public roadways shall be fully open to traffic from 7:00 AM to 9:00 AM on Monday through Friday, and from 6:00 PM to 6:00 AM on Saturday and Sunday. At all other hours the Contractor shall maintain minimum one-lane two-way traffic. Uniformed, off-duty police officers shall replace flagmen designated by the OMUTCD, and shall be present whenever one-lane, two-way traffic control is in effect. Police cruisers may be required as directed by the City Engineer.
- If the City Engineer determines that the Contractor is not providing proper provisions for traffic control, the City Engineer shall assign uniformed, off-duty police officers to the project at no cost to the City.
- Steady burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night.
- Access from public roadways to all adjoining properties for existing residents or businesses shall be maintained throughout the duration of the project for mail, public water and sanitary sewer service, and emergency vehicles. The Contractor shall provide a traffic control plan detailing the proposed maintenance of traffic procedures. The traffic control plan must incorporate any traffic control details contained herein. The traffic control plan proposed by the Contractor must be approved by the City Engineer prior to construction.

**EROSION AND SEDIMENT CONTROL**

- The Contractor or Developer is responsible for submitting a Notice of Intent (NOI) to be reviewed and approved by the Ohio EPA. The NOI must be submitted to OEPA 45 days prior to the start of construction and may entitle coverage under the Ohio EPA General Permit for Stormwater Discharges associated with construction activity. A project location map must be submitted with the NOI. A sediment and erosion control plan must be submitted to the City Engineer for approval if a sediment and erosion control plan has not already been included with the approved construction drawings. This plan must be made available at the project site at all times. The design of erosion control systems shall follow the requirements of Ohio EPA Item 207 of Ohio Department of Transportation Standard Specifications, and the City Engineer. An individual NPDES Stormwater Discharge Permit may be required. The Contractor shall be considered the permittee.
- The Contractor shall provide sediment control at all points where storm water runoff leaves the project, including waterways, overland sheet flow, and storm sewers.
- Accepted methods of providing erosion/sediment control include but are not limited to: sediment basins, silt filter fence, aggregate check dams, and temporary ground cover. Hay or straw bales are not permitted.
- The Contractor shall provide adequate drainage of the work area at all times consistent with erosion control practices.
- Disturbed areas that will remain unworked for 30 days or more shall be seeded or protected within seven calendar days of the disturbance. Other sediment controls that are installed shall be maintained until vegetative growth has been established. The Contractor shall be responsible for the removal of all temporary sediment devices at the conclusion of construction but not before growth of permanent ground cover.

**BLASTING (if Permitted)**

- The Contractor must obtain a blasting permit from Washington Township Fire Department prior to blasting for rock excavation. The Contractor shall submit blasting reports upon completion of blasting to the City Engineer, the Owner, and the Owner's engineer. Top of rock elevations shall be shown on "as-built" construction drawings.

**SANITARY SEWERS**

- Connections to the sanitary sewer will be permitted upon receiving an OEPA Permit to Install (PTI), and upon receiving a satisfactory letter from the design engineer stating that the project has been constructed as per the plans, and all of the conditions of the PTI have been met. The developer is responsible for obtaining all required Ohio EPA approvals and paying review fees.
- Sanitary sewage collection systems shall be constructed in accordance with the rules, regulations, standards and specifications of the City of Dublin, Ohio EPA, Ohio Department of Health and the current edition of the Great Lakes-Upper Mississippi River Board (Ten States) - Recommended Standards for Wastewater Facilities.
- The minimum requirements for sanitary sewer pipe with diameters 8 inches to 10 inches shall be PVC sewer pipe ASTM D3034, SDR 35. Pipe for 6 inch diameter house service lines shall be PVC pipe ASTM D3034, SDR 35. PVC pipe shall not be used at depths greater than 28 feet. Pipe materials and related structures shall be shop tested in accordance with City of Columbus Construction Inspection Division quality control requirements.
- The minimum requirements for sanitary sewer pipes with diameters 12 inches to 30 inches shall be PVC sewer pipe, ASTM D3034, SDR 35 or SaniTite HP pipe, ASTM F2736. Sanitary sewer pipes with diameters 30 inches to 60 inches shall be PVC sewer pipe, ASTM D3034, SDR 35 or SaniTite HP pipe, ASTM F2764.
- All in-line wye and tee connections in concrete sewers, 18-inch diameter and larger, shall be either Kor\_N\_Tee or Kor\_N\_Seal connections conforming to the manufacturer's recommendations.
- Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 613, Type II of the Standard Specifications as directed by the City Engineer.
- All manhole lids shall be provided with continuous self-sealing gaskets. The approved construction drawings shall show where bolt-down lids are required. Sanitary sewer

manholes shall be precast concrete or as approved by the City Engineer and conform to the City of Dublin sanitary manhole standard drawing. Manhole lids shall include City of Dublin logo.

- All PVC sewer pipes shall be deflection tested no less than 60 days after completion of backfilling operations. All other requirements shall be according to Item 901.21 of the Standard Specifications.
- Temporary bulkheads shall be placed in pipes at locations shown on the approved construction drawings and shall remain in place until the Permit to Install (PTI) has been issued by the OEPA and the sewers have been approved for use by the City Engineer. The cost for furnishing, installing, maintaining, and removing bulkheads shall be included in the contract unit bid price for the various sanitary sewer items.
- All sanitary sewers including sanitary sewer service lines shall be subjected to and pass infiltration or exfiltration tests according to Item 901 of the Standard Specifications and must be approved for use by the City Engineer before any service connections are tapped into sewers.
- For sanitary sewer infiltration, leakage through joints shall not exceed 100 gallons per inch of tributary sewer diameter per 24 hours per mile of length or the computed equivalent. All sanitary sewers shall be tested.
- At the determination of the City Engineer, the Contractor may be required to perform a TV inspection of the sanitary sewer system prior to final acceptance by the City. This work shall be completed by the Contractor at his expense.
- Visible leaks or other defects observed or discovered during TV inspection shall be repaired to the satisfaction of the Engineer.
- Roof drains, foundation drains, field tile or other clean water connections to the sanitary sewer system are strictly prohibited according to Section 51.23 of the Dublin Code of Ordinances.
- All water lines shall be located at least 10 feet horizontally and 18 inches vertically, from sanitary sewers and storm sewers, to the greatest extent practicable. Where sanitary sewers cross water mains or other sewers or other utilities, trench backfill shall be placed between the pipes crossing and shall be compacted granular material according to Item 912 of the Standard Specifications. In the event that a water line must cross within 18 inches of a sanitary sewer, the sanitary sewer shall be concrete encased or consist of ductile iron pipe material.
- Service risers shall be installed where the depth from wyes to proposed ground elevation exceeds 10 feet. Tops of risers shall be no less than 9 feet below proposed ground elevation if basement service is intended.
- Where service risers are not installed, a minimum 5-foot length of sanitary sewer service pipe of the same size as the wye opening shall be installed.
- The Contractor shall furnish and place, as directed, approved wye poles made of 2 inches x 2 inches lumber at all wye locations, ends of extended services, or at the end of each riser where risers are required. Wye poles shall be visible before acceptance by the City. The cost of these poles shall be included in the contract unit price for the various sewer items.
- Existing sanitary sewer flows shall be maintained at all times. Costs for pumping and bypassing shall be included in the Contractor's unit price bid for the related items.

- The Contractor shall furnish all material, equipment, and labor to make connections to existing manholes. The sewer pipe to manhole connections for all sanitary sewers shall be flexible and watertight. All holes shall be neatly cored. The sewer pipe barrel at the springline shall not extend more than 1 inch beyond the inside face of the manhole. To maintain flexibility in the connection, a 1-inch space shall be left between the end of the pipe inside the manhole and the concrete channel; this space shall be filled with a waterproof flexible joint filler. Any metal that is used shall be Type 300 Series Stainless Steel. The connection may be any of the following types:
  - A. Rubber sleeve with stainless steel banding.
    - Kor\_N\_Seal as manufactured by National Pollution Control Systems, Inc.
    - Lock Joint Flexible Manhole Sleeve as manufactured by Interpace Corporation.
    - Or equal as approved by the City Engineer.
  - B. Rubber gasket compression.
    - Press Wedge II as manufactured by Press\_Seal Gasket Corporation.
    - Dura Seal III as manufactured by Dura Tech, Inc.
    - Link\_Seal as manufactured by Thunderline Corporation.
    - Or equal as approved by the City Engineer.

The cost for this work along with a new channelized base for the manhole shall be included in the unit bid price for the related items of work.

**WATERLINE NOTES 1-17 DELETED**

**STORM SEWER NOTES 1-13 DELETED**

**MAIL DELIVERY**

- The Contractor shall be responsible to ensure that US Mail delivery within the project limits is not disrupted by construction operations. This responsibility is limited to relocation of mailboxes to a temporary location that will allow the completion of the work and shall also include the restoration of mailboxes to their original location or approved new location. Any relocation of mailboxes must be first coordinated with the US Postal Service and the homeowner.
- Before relocating any mailboxes, the Contractor shall contact the U.S. Postal Service and relocate mailboxes according to the requirements of the Postal Service.

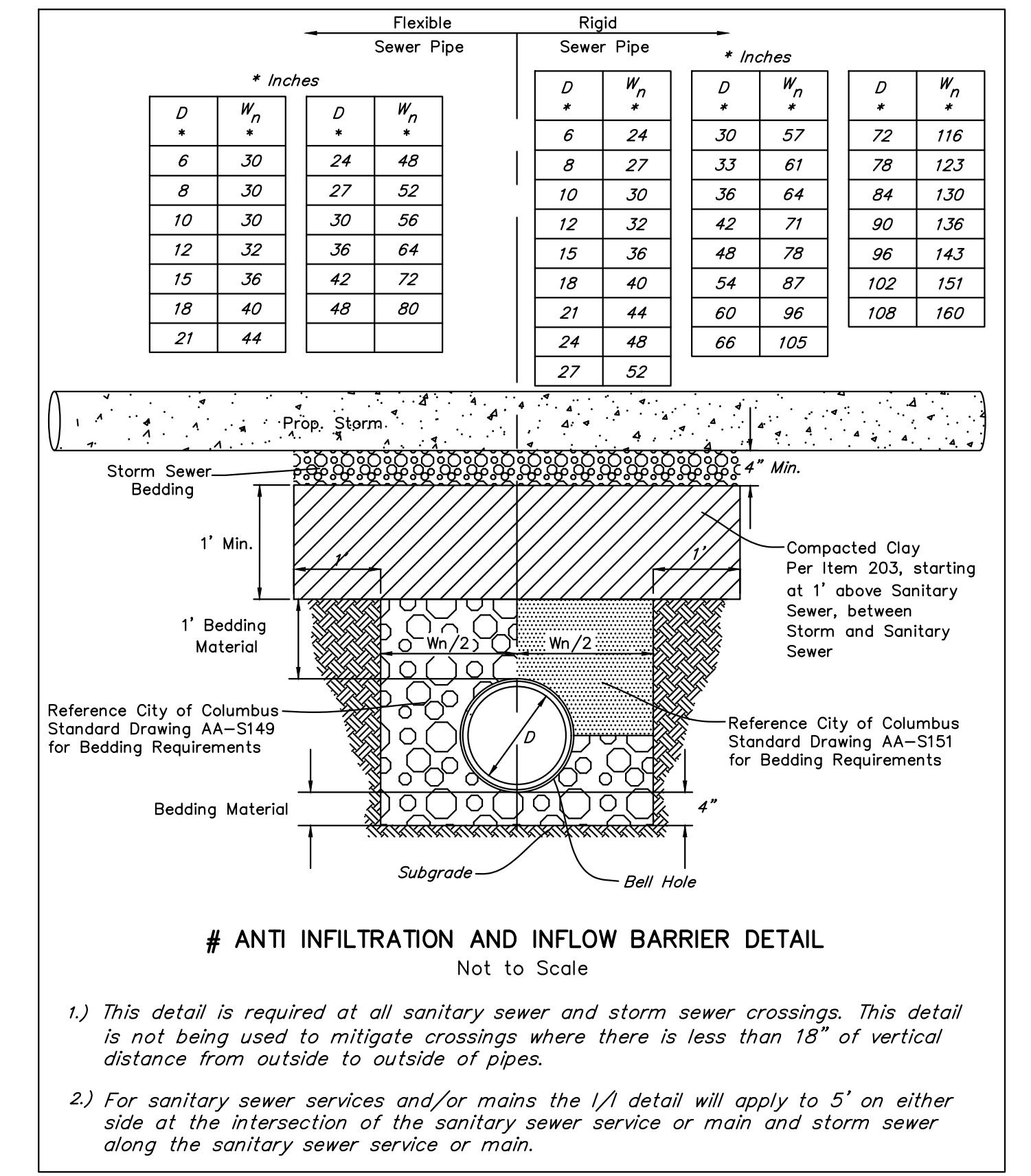
**USE OF FIRE HYDRANTS**

- The Contractor shall make proper arrangements with the Dublin Service Department and the Columbus Division of Water for the use of fire hydrants when used for work performed under this contract and provide the city of Dublin a copy of the Hydrant Usage Permit obtained from the City of Columbus. The Contractor shall also send a copies of permits obtained from Dublin and Columbus to the Washington and/or Perry Township Fire Department. Permits shall be kept at the construction site at all times.
- Before the final estimate is paid, the Contractor shall submit a letter from the City of Columbus Division of Water to the City Engineer stating that the Contractor has returned the Siamese Valve to the City of Columbus and has paid all costs arising from the use of the fire hydrants.

**ESTIMATE OF QUANTITIES**

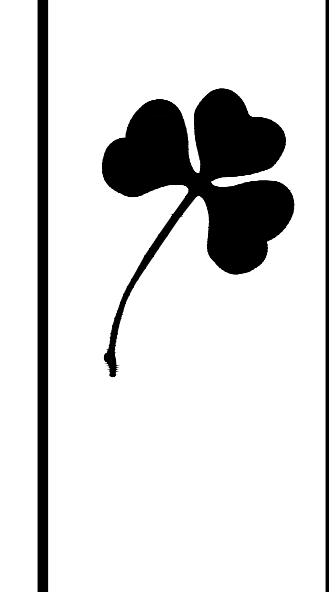
Note: The quantities shown on this plan are the Engineers best determination of the work to be performed. The quantities are for use by the City to estimate the necessary development fees. The Contractor should make his own determination and shall be solely responsible for determining the required bid quantities necessary for completion of

ITEM	SECTION 2	UNIT	DESCRIPTION
604	4	Each	Existing MH Rims (Adjust to Grade)(See Sheets 3 & 4 of Street Plan)
914	450	LF	6" Diameter Pipe Risers
915	27	Each	36"x6" Diameter Wye Fitting
918	708	LF	6" Diameter Pipe, Sanitary House Connection Service (Two Per Trench Inside R/W)
918	309	LF	6" Diameter Pipe, Sanitary House Connection Service (One Per Trench Inside R/W)
918	75	LF	6" Diameter Pipe, Sanitary House Connection Service (Outside R/W)
Calculated By: KEU		Date: 07/7/2022	Checked By: JCB Date: 07/08/2022



**REVISED DRAFT**  
**NOT TO BE USED FOR CONSTRUCTION**  
**PLAN SET DATE: DECEMBER 20, 2022**

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC SANITARY SEWER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
**SECTION 2**  
 GENERAL NOTES, QUANTITIES, & DETAILS

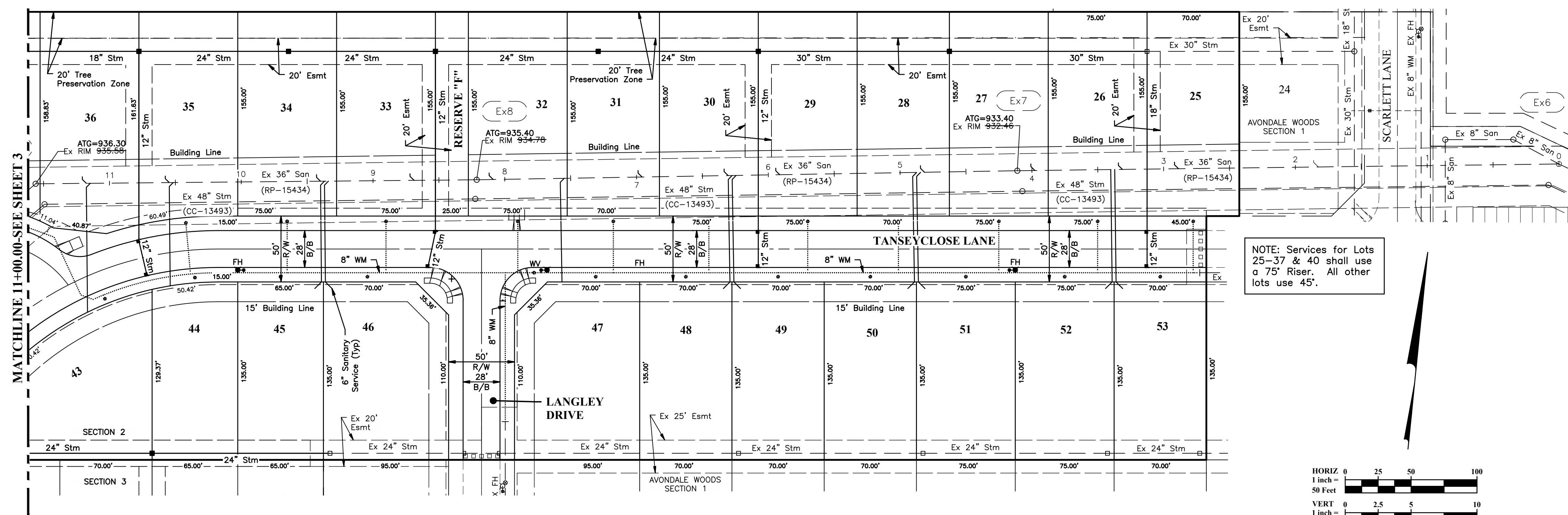
**EMHT**  
 ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS  
 5800 New Albany Road, Columbus, OH 43254  
 Phone: 614.775.5500 Fax: 614.775.5501  
 emht.com

DATE	DECEMBER 20, 2022
SCALE	NONE
JOB NO.	2020-1174
SHEET	2/5





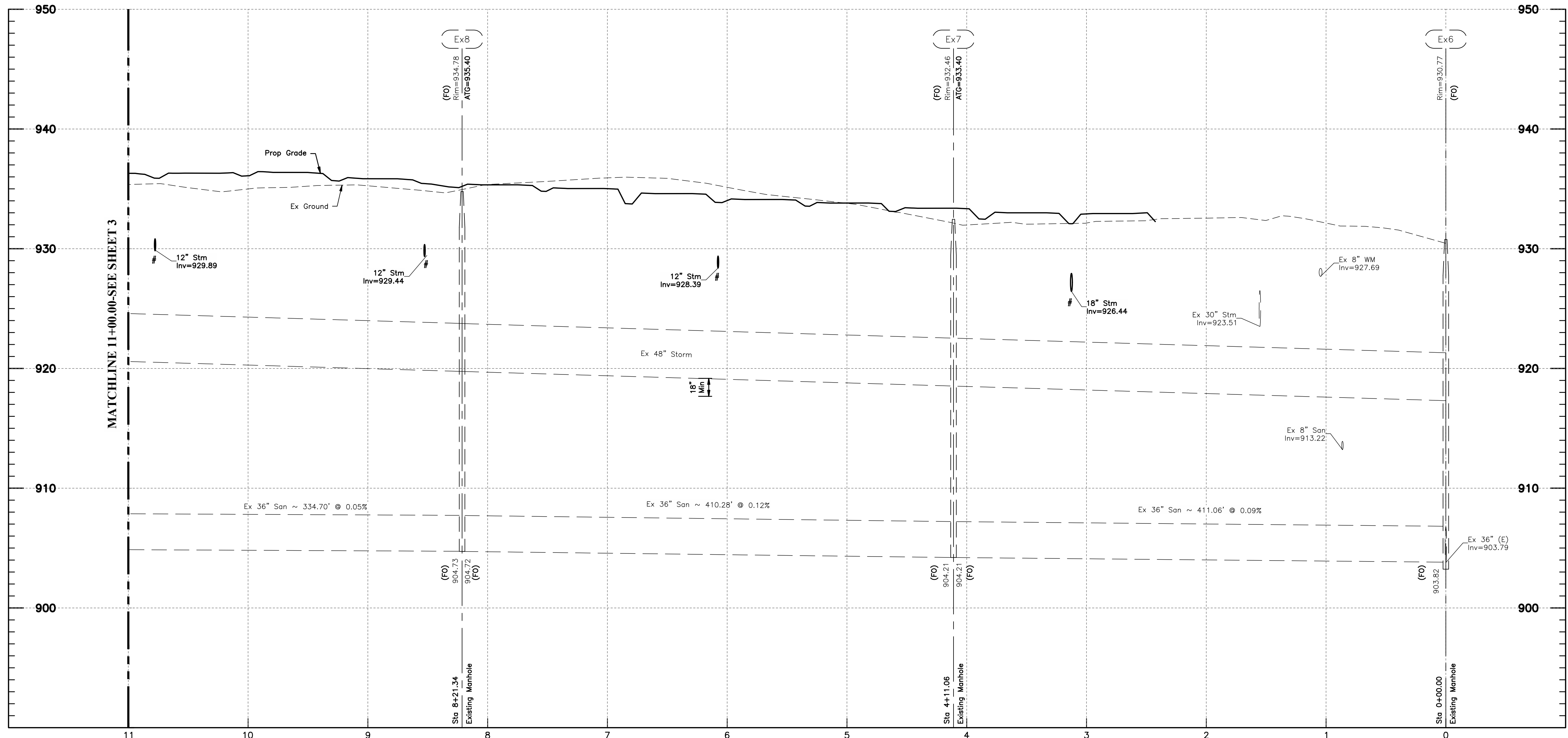
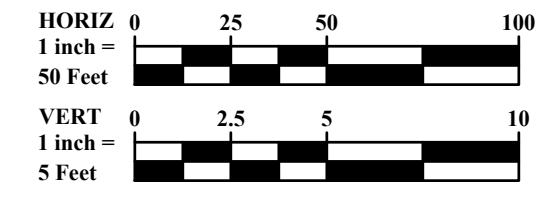




SANITARY SERVICE SCHEDULE						
LOT NUMBER	WYE STATION	SERVICE LENGTH	MIN SERVICE SLOPE	MAX EOS ELEVATION	RISER HEIGHT	GROUND AROUND
25	2+92	5'	2.08%	922.70	15'	933.50
26	3+34	5'	2.08%	922.74	15'	933.60
53	3+37	93'	2.08%	921.57	† 12'	933.00
27	3+40	93'	2.08%	922.58	† 13'	933.30
52	4+01	5'	2.08%	922.80	15'	934.00
28	4+84	5'	2.08%	923.91	16'	934.50
50	4+90	91'	2.08%	923.70	† 14'	934.30
51	4+97	91'	2.08%	922.71	† 13'	933.80
29	5+94	5'	2.08%	924.04	16'	934.80
49	6+27	88'	2.08%	923.81	† 14'	934.60
48	6+30	88'	2.08%	923.81	† 14'	935.10
30	6+33	5'	2.08%	924.09	16'	935.40
31	6+99	5'	2.08%	925.17	17'	935.90
47	7+58	79'	2.08%	924.79	† 15'	935.40
32	8+12	5'	2.08%	925.32	17'	936.20
33	8+72	5'	2.08%	925.35	17'	936.60
46	9+37	84'	2.08%	925.03	† 15'	936.10
45	9+40	84'	2.08%	926.03	† 16'	936.70
34	9+43	5'	2.08%	926.38	18'	937.10
44	10+55	79'	2.08%	925.98	† 16'	936.60
35	10+58	5'	2.08%	926.44	18'	937.00

Riser height represents the vertical distance from end of service to flowline of main sewer.  
Length of service represents the horizontal distance between end of service and mainline.  
† Service should have 2' of riser on house side per city of Dublin Standard Drawing SA-03.

EX STRUCTURE COORDINATES (FO)		
STRUCTURE #	NORTHING - AS BUILT	EASTING - AS BUILT
Ex6	754292.1790	1782842.9709
Ex7	754245.9879	1782434.5169
Ex8	754198.1279	1782027.0369



**LEGEND**

- Stm: Proposed Storm Sewer
- San: Proposed Sanitary Sewer
- Water Serv: Proposed Watermain
- ExStm: Existing Storm Sewer
- ExSan: Existing Sanitary Sewer
- ExWater Serv: Existing Watermain

**NOTES:**

- \* Compacted Backfill, Item 911
- \*\* Compacted Granular Backfill, Item 912. All limits denoted thus: [hatched box symbol]
- # See Anti Infiltration and Inflow Barrier Detail, See Sheet 2
- Taps into existing sewers shall be core drilled and inspected by the City of Dublin.
- (FO) Field Observed Elevation
- ATG Adjust to Grade
- Contractor must verify invert and location of existing utility before construction. If there is a discrepancy between the contractors information and the plan information shown, the contractor is to contact the engineer of record prior to starting construction.
- Taps into existing sewer systems are to be core drilled and inspected by the City of Dublin.

PUBLIC SANITARY SEWER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS SECTION 2**  
 PLAN & PROFILE

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

DATE: DECEMBER 20, 2022  
 SCALE: Horiz: 1" = 50', Vert: 1" = 5'  
 JOB NO.: 2020-1174  
 SHEET: 4/5

E.M.H.T.  
 ENGINEERS & ARCHITECTS  
 5800 New Albany Road, Columbus, OH 43254  
 Phone: 614.757.5500 Fax: 614.757.5505 emht.com

REVISIONS: MINOR  
 NOT TO BE USED FOR CONSTRUCTION  
 PLAN SET DATE: DECEMBER 20, 2022

J:\2020\1174\Drawings\SSWR\20201174-SSWR-04.dwg, Last Saved By: vmpore, 8/13/2022, 2:01 PM, Last Printed By: Brno, John, 12/20/2022, 2:16 PM  
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GENERAL NOTES

- 1. City of Columbus and Ohio Department of Transportation Construction and Material Specifications, current editions, and any supplements thereto (hereafter referred to as Standard Specifications), shall govern all construction items unless otherwise noted. If a conflict between specifications is found, the more strict specification will apply as decided by the City Engineer. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted.
2. The City Engineer will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The City Engineer will not be responsible for safety on the work site, or for failure by the Contractor to perform work according to contract documents.
3. The Developer or Contractor shall be responsible to obtain all necessary permits including but not limited to Ohio EPA Permits to Install (PTI) and Notices of Intent (NOI), Building Permits, etc.
4. The Contractor shall notify the City of Dublin Division of Engineering in writing at least 3 working days prior to beginning construction.
5. The Contractor shall be solely responsible for complying with all federal, state and local safety requirements including the Occupational Safety and Health Act of 1970. The Contractor shall exercise precaution always for the protection of persons (including employees) and property. It shall also be the sole responsibility of the Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.146.
6. Following completion of construction of the site improvements and before requesting occupancy, a proof survey shall be provided to the Division of Engineering that documents "as\_built" elevations, dimensions, slopes and alignments of all elements of this project. The proof survey shall be prepared, signed and submitted by the Professional Engineer who sealed the constructions drawings.
7. The Contractor shall restrict construction activity to public right\_of\_way and areas defined as permanent and/or temporary construction easements, unless otherwise authorized by the City Engineer.
8. The Contractor shall carefully preserve benchmarks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the Contractor shall be responsible for restorations. Resetting of markers shall be performed by an Ohio Professional Surveyor as approved by the City Engineer.
9. Non\_rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the City Engineer.
10. The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or watercourses that are disturbed by construction shall be restored to the grades and cross\_sections that existed before construction.
11. Tracking or spilling mud, dirt or debris upon streets, residential or commercial drives, sidewalks or bike paths is prohibited according to Section 97.38 of the Dublin Code of Ordinances. Any such occurrence shall be cleaned up immediately by the Contractor at no cost to the City. If the Contractor fails to remove said mud, dirt, debris, or spillage, the City reserves the right to remove these materials and clean affected areas, the cost of which shall be the responsibility of the Contractor.
12. Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) is not permitted.
13. All signs, landscaping, structures or other appurtenances within right-of-way disturbed or damaged during construction shall be replaced or repaired to the satisfaction of the City Engineer. The cost of this work shall be the responsibility of the Contractor.
14. All field tile broken or encountered during excavation shall be replaced or repaired and connected to the public storm sewer system as directed by the City Engineer. The cost of this work shall be the responsibility of the Contractor.
15. All precast concrete products shall be inspected at the location of manufacture. Approved precast concrete products will be stamped or have such identification noting that inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspection shall not be approved for installation.
16. Backfill within a 1:1 influence line of existing structures (houses, garages, etc.) or public infrastructure (pavement, curbs, sidewalks, bike paths, etc.) shall be compacted granular backfill according to item 912 of the Standard Specifications or Flowable CDF, Type II according to item 613. Item 911 of the Standard Specifications shall be used elsewhere.
17. The Contractor shall submit a copy of the approved construction drawings and a list of proposed precast concrete product manufacturers to the City of Columbus Construction Inspection Division before commencing construction.
Send the information to the following address:
Construction Inspection Division
City of Columbus
1800 East 17th Avenue
Columbus, Ohio 43219
Send a copy of the transmittal letter to the following address:
Division of Engineering
City of Dublin
6555 Shier Rings Road
Dublin, Ohio 43016
18. All trenches within public right-of-way shall be backfilled according to the approved construction drawings or securely plated during nonworking hours. Trenches outside these areas shall be backfilled or shall be protected by approved temporary fencing or barricades during nonworking hours. Clean up shall follow closely behind the trenching operation.
19. All trees within the construction area not specifically designated for removal shall be preserved, whether shown or not shown on the approved construction drawings. Trees to be preserved shall be protected with high visibility fencing placed a minimum 15 feet from the tree trunk. Trees 6 - inches or greater at DBH (Diameter Breast Height) must be protected with fencing placed at the critical root zone or 15 feet, whichever is greater. Trees not indicated on the approved construction drawings for removal may not be removed without prior approval of the Division of Engineering.
20. Conduit must be directionally bored across streets instead of open cut, unless specifically approved by the City Engineer. Use of pneumatic air ram devices is not permitted. Permits to construct in the right-of-way of existing streets must be obtained from the City of Dublin Division of Engineering before commencing construction. Should open cutting of existing pavement be permitted, Controlled Density Backfill (Type II) shall be used in place of compacted granular backfill, according to item 613 of the Standard Specifications.
21. The Contractor shall be responsible for the condition of trenches within the right-of-way and public easements for a period of one year from the final acceptance of the work, and shall make any necessary repairs at no cost to the City.
22. Pavements shall be cut in neat, straight lines the full depth of the existing pavement, or as required by the City Engineer. Pavement replacement shall be conducted according to City of Columbus Standard Drawing 1441 Dr. A and applicable City of Dublin standard drawings. The replacement of driveways, handicapped ramps, sidewalks, bike paths, parking lot pavement, etc. shall be

provided according to the approved construction drawings and City of Dublin standard construction drawings.

- 23. Tree trimming within the construction zone is to be completed by a certified Arborist. At the completion of the project, the Arborist is to return and trim any broken branches as needed.
24. Any modification to the work shown on drawings must have prior written approval by the City Engineer, City of Dublin.
25. All inlets shall be channelized.
26. Park areas shall be fine\_graded and seeded with the following mixture:
Improved Kentucky Bluegrass: 40% of weight (2 varieties in equal parts)
Improved Perennial Ryegrass: 60% of weight (2 varieties in equal parts)
Germination Rate: 85%
Application Rate: 7 lbs per 1000 sq ft or as directed by the Division of Parks and Recreation, City of Dublin, Ohio.
27. Traffic control and other regulatory signs shall be Type S with a square post anchor base installation and meet all requirements of ODOT TC-41.20 and applicable City of Dublin specifications.
28. Street signs shall meet all City of Dublin specifications with lettering colored in white displayed over a brown background. Sign tubing shall be brown in color and conform with the Type S, square post anchor base installation requirements of ODOT TC-41.20.

UTILITIES

- 1. The following utilities are known to be located within the limits of this project:
Columbia Gas of Ohio
Attn: Tammy Schmid
200 Civic Center Dr., 4th Floor
Columbus, Ohio 43215
1-800-440-6111
City of Columbus Division of Water
910 Dublin Road, 2nd Floor
Columbus, Ohio 43215
(614) 645-7788
Ohio Edison
Gary Smith
1040 South Prospect Street
Marion, Ohio 43302
(740) 382-7104
Verizon
Bill Muether / Randy Brooks
550 Leader Street
Marion, Ohio 43302
(740) 383-0527
Wide Open West
Ken Holderfield
Engineering Manager
3675 Corporate Drive
Columbus, Ohio 43231
(614) 236-3922
City of Dublin Division of Engineering
Engineering
Paul Hammersmith, P.E.
5800 Shier Rings Road
Dublin, Ohio 43016
(614) 410-4600
Time Warner Cable
Kevin Rich
1266 Dublin Road
Columbus, Ohio 43215
(614) 481-5263
2. The Contractor shall give notice of intent to construct to Ohio Utilities Protection Service (telephone number 800\_362\_2764), Producer's Underground Protection Service (telephone number 614\_587\_0486), and to owners of underground utilities that are not members of a registered underground protection service. Notice shall be given at least 2 working days before start of construction.
3. The identity and locations of existing underground utilities in the construction area have been shown on the approved construction drawings as accurately as provided by the owner of the underground utility. The City of Dublin and the City Engineer assumes no responsibility for the accuracy or depths of underground facilities shown on the approved construction drawings. If damage is caused, the Contractor shall be responsible for repair of the same and for any resulting contingent damage.
4. Location, support, protection and restoration of all existing utilities and appurtenances, whether shown or not shown on the approved construction drawings, shall be the responsibility of the Contractor.
5. When unknown or incorrectly located underground utilities are encountered during construction, the Contractor shall immediately notify the owner and the City Engineer.
6. Public street lighting may be in the vicinity of this project. Contact the City of Dublin, Division of Engineering at 410-4637, two days prior to beginning work.

TRAFFIC CONTROL

- 1. Traffic control shall be furnished, erected, maintained, and removed by the Contractor according to Ohio Manual of Uniform Traffic Control Devices (OMUTCD), current edition.
2. All traffic lanes of public roadways shall be fully open to traffic from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM unless authorized differently by the City Engineer. At all other hours the Contractor shall maintain minimum one\_lane two\_way traffic. Uniformed, off-duty police officers shall replace flagmen designated by the OMUTCD, and shall be present whenever one\_lane two\_way traffic control is in effect. Police cruisers may be required as directed by the City Engineer.
3. If the City Engineer determines that the Contractor is not providing proper provisions for traffic control, the City Engineer shall assign uniformed, off-duty police officers to the project at no cost to the City.
4. Steady\_burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night.
5. Access from public roadways to all adjoining properties for existing residents or businesses shall be maintained throughout the duration of the project for mail, public water and sanitary sewer service, and emergency vehicles. The Contractor shall provide a traffic control detailing the proposed maintenance of traffic procedures. The traffic control plan must incorporate any traffic control details contained herein. The traffic control plan proposed by the Contractor must be approved by the City Engineer prior to construction.

EROSION AND SEDIMENT CONTROL

- 1. The Contractor or Developer is responsible for submitting a Notice of Intent (NOI) to be reviewed and approved by the Ohio EPA. The NOI must be submitted to OEPA 45 days prior to the start of construction and may entitle coverage under the Ohio EPA General Permit for Stormwater Discharges associated with construction activity. A project location map must be submitted with the NOI. A sediment and erosion control plan must be submitted to the City Engineer for approval if a sediment and erosion control plan has not already been included with the approved construction drawings. This plan must be made available at the project site at all times. The design of erosion control systems shall follow the requirements of Ohio EPA, Item 207 of Ohio Department of Transportation Standard Specifications, and the City Engineer. An individual NPDES Stormwater Discharge Permit may be required. The Contractor shall be considered the permittee.
2. The Contractor shall provide sediment control at all points where storm water runoff leaves the project, including waterways, overland sheet flow, and storm sewers.
3. Accepted methods of providing erosion/sediment control include but are not limited to: sediment basins, silt filter fence, aggregate check dams, and

temporary ground cover. Hay or straw bales are not permitted.

- 4. The Contractor shall provide adequate drainage of the work area at all times consistent with erosion control practices.
5. Disturbed areas that will remain unworked for 30 days or more shall be seeded or protected within seven calendar days of the disturbance. Other sediment controls that are installed shall be maintained until vegetative growth has been established. The Contractor shall be responsible for the removal of all temporary sediment devices at the conclusion of construction but not before growth of permanent ground cover.

BLASTING (if Permitted)

- 1. The Contractor must obtain a blasting permit from Washington Township Fire Department prior to blasting for rock excavation. The Contractor shall submit blasting reports upon completion of blasting to the City Engineer, the Owner, and the Owner's engineer. Top of rock elevations shall be shown on "as\_built" construction drawings.

SANITARY SEWER NOTES 1-20 DELETED

WATER LINE

- 1. All water line materials shall be provided and installed according to current specifications of the City of Columbus Division of Water.
3. Only fire hydrants conforming to City of Columbus standards will be approved for use.
4. Public water lines shall be disinfected by the City of Columbus Division of Water. Requests for water line chlorination shall be made through the City of Dublin Division of Engineering. The cost for chlorination shall be paid for by the Contractor.
6. The Contractor shall paint all fire hydrants according to City of Dublin standards. The cost of painting fire hydrants shall be included in the contract unit price for fire hydrants.
8. The Contractor shall notify the City of Columbus Division of Water at 645\_7788 and the City of Dublin Division of Engineering at least 24 hours before tapping into existing water lines.
9. All water main stationing shall be based on street centerline stationing.
10. All bends, joint deflections and fittings shall be backed with concrete per City of Columbus standards.
11. The Contractor shall give written notice to all affected property owners at least 1 working day but not more than 3 working days prior to any temporary interruption of water service. Interruption of water service shall be minimized and must be approved by the City Engineer.
13. Water lines to be installed in embankment areas shall be placed after the embankment has been placed and compacted according to the Standard Specifications.
15. If the top of the operating nut of any valve is greater than 36 inches below finished grade, an extension stem shall be furnished to bring the top of the operating nut to within 24 inches of finished grade elevation.

WATERLINE NOTES 2, 5, 7, 12, 14, 16 AND 17 DELETED

STORM SEWER

- 1. All storm water detention and retention areas and major flood routing swales shall be constructed to finish grade and hydro\_seeded and hydro\_mulched according to items 203 and 659 of the Standard Specifications.
2. Where private storm sewers connect to public storm sewers, the last run of private storm sewer connecting to the public storm sewer shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings. Inspection is required by the City of Dublin's Division of Engineering.
3. Granular backfill shall be compacted granular material according to item 912 of the Standard Specifications or Controlled Density Backfill according to item 613, Type II of the Standard Specifications as directed by the City Engineer.
4. All storm sewers shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings.
5. Headwalls shall be required at all storm sewer inlets or outlets to and from stormwater management facilities. Natural stone and/or brick approved by the City Engineer shall be provided on all visible headwalls surfaces.
6. Storm inlets or catch basins shall be channelized and have bicycle safe grades. Manhole lids shall include City of Dublin logo and all curb inlet and catch basin grates shall induce engraved lettering: "DUMP NO WASTE; DRAINS TO RIVER."
7. Storm sewer outlets greater than 18 inches in diameter accessible from stormwater management facilities or watercourses shall be provided with safety grates, as approved by the City Engineer.
8. HP Storm and HP SaniTite or approved equal are approved alternatives to reinforced concrete pipe in paved and non paved areas as approved by the City Engineer. This includes applications inside the right-of-way.
9. HP Storm and HP SaniTite or approved equal pipe joints shall be watertight according to requirements of ASTM D3212. Pipes shall be joined with a gasketed integral bell & spigot joint meeting the requirements of ASTM F2881 (HP Storm) and ASTM F2764 (HP SaniTite). Gaskets shall be installed by pipe manufacturer and covered with removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during joint assembly.
10. All bedding material shall be in accordance with City of Columbus standard construction drawing AA-S149.
11. Backfill material shall be placed in accordance with item 911 or item 912 of the City of Columbus Construction Material Specifications (CMS).
12. Backfill material in areas located outside the public right-of-way shall be placed in accordance with item 901 of the City of Columbus (CMS).
13. All HP Storm and HP SaniTite pipe (for storm sewer) shall be mandrel tested in accordance with City of Columbus item 901.21, with the exception that the waiting period prior to testing shall be 30 days.

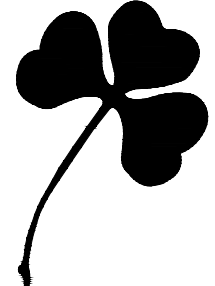
MAIL DELIVERY

- 1. The Contractor shall be responsible to ensure that US Mail delivery within the project limits is not disrupted by construction operations. This responsibility is limited to relocation of mailboxes to a temporary location that will allow the completion of the work and shall also include the restoration of mailboxes to their original location or approved new location. Any relocation of mailbox services must be first coordinated with the US Postal Service and the homeowner.
2. Before relocating any mailboxes, the Contractor shall contact the U.S. Postal Service and relocate mailboxes according to the requirements of the Postal Service.

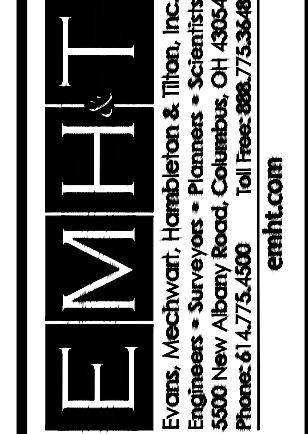
USE OF FIRE HYDRANTS

- 7. The Contractor shall make proper arrangements with the Dublin Service Department and the Columbus Division of Water for the use of fire hydrants when used for work performed under this contract and provide the city of Dublin a copy of the Hydrant Usage Permit obtained from the City of Columbus. The Contractor shall also send a copies of permits obtained from Dublin and Columbus to the Washington and/or Perry Township Fire Department. Permits shall be kept at the construction site at all times.
8. Before the final estimate is paid, the Contractor shall submit a letter from the City of Columbus Division of Water to the City Engineer stating that the Contractor has returned the Siamese Valve to the City of Columbus and has paid all costs arising from the use of the fire hydrants.

Table with 2 columns: MARK, DATE, DESCRIPTION. Includes a vertical stamp: REVISIONS: MINOR, NOT TO BE USED FOR CONSTRUCTION, PLAN SET DATE: DECEMBER 20, 2022.



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PUBLIC STREET, STORM, & WATER IMPROVEMENTS
FOR
AVONDALE WOODS
SECTION 2
GENERAL NOTES



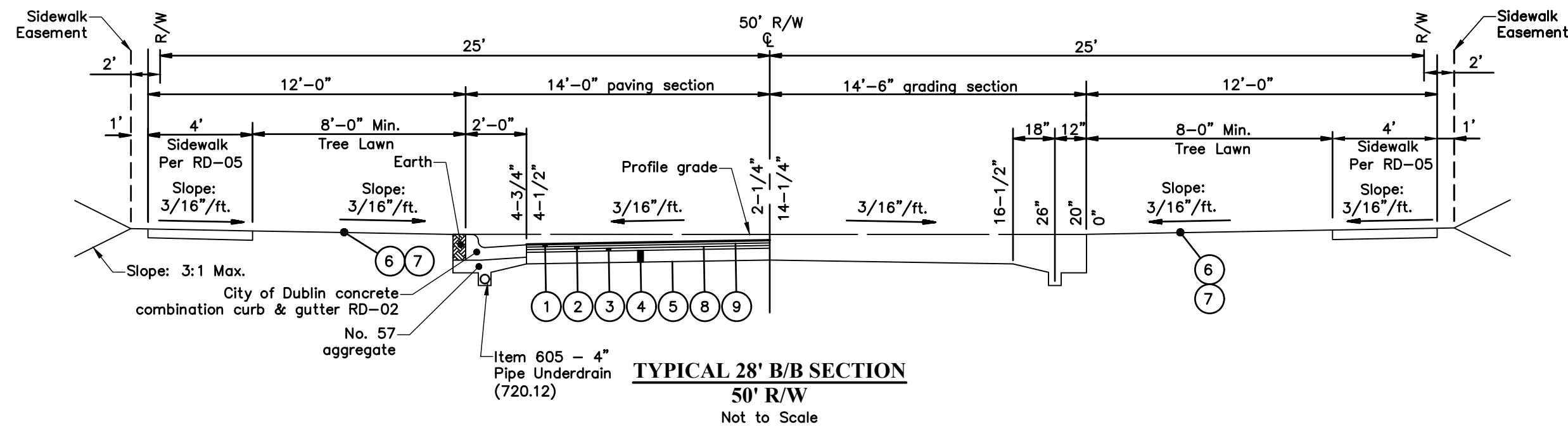
DATE
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SCALE
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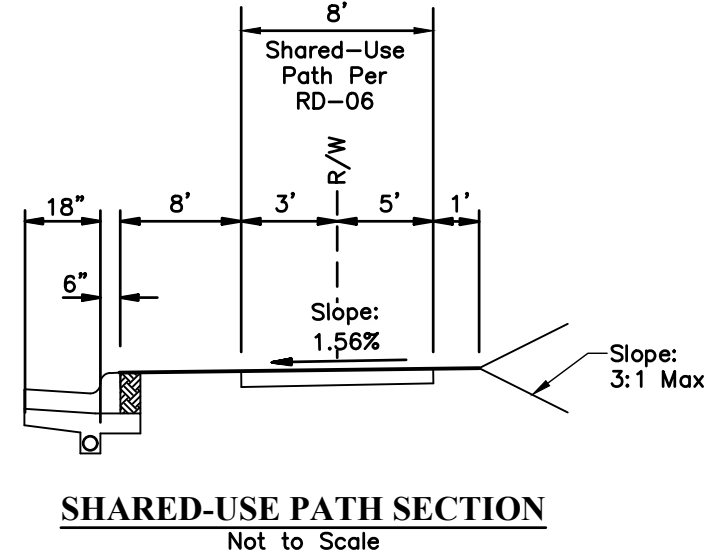
JOB NO.
2020-1174

SHEET
2/13





TANSEYCLOSE LANE - @STA 1+43.28 to @STA 12+12.70  
 LANGLEY DRIVE - @STA 4+75.00 to @STA 6+35.00  
 TANSEYCLOSE LANE (EYEBROW) - @STA 0+00.00 to @STA 2+78.93



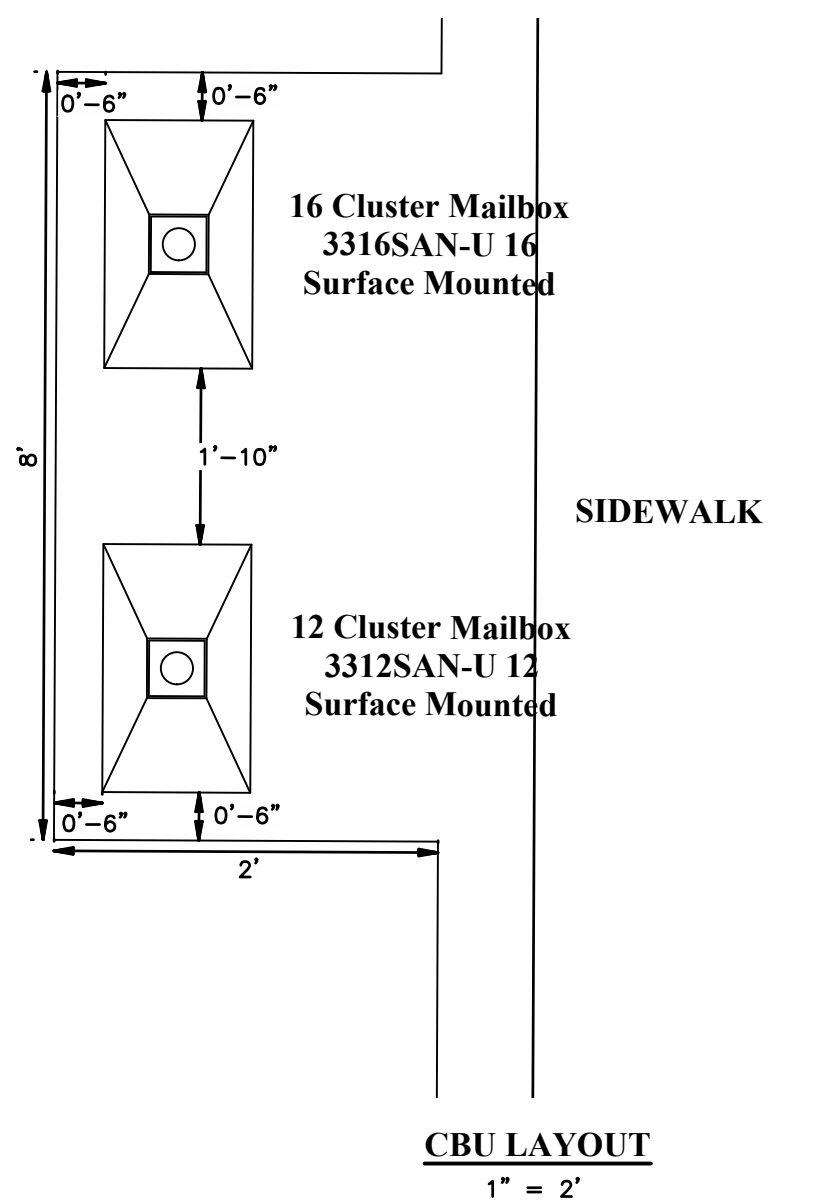
TANSEYCLOSE LANE - @STA 0+00.00 to @STA 9+46.35  
 AVONDALE WOODS BOULEVARD - @STA 30+32.24 to @STA 31+37.93

Pvmt Section per City of Dublin Typical Section, Standard Drawing RD-01.

**PAVEMENT LEGEND**

- ① Item 448, 1.25" Asphalt Concrete, Surface Course, Type 1, Pg 64-22, Medium Traffic
- ② Item 448, 1.75" Asphalt Concrete, Intermediate Course, Type 2, Pg 64-22, Medium Traffic
- ③ Item 301, 3" Bituminous Aggregate Base Course
- ④ Item 304, 6" Aggregate Base
- ⑤ Item 204, Subgrade Compaction
- ⑥ Item 653 - 3" Topsoil Furnished And Placed
- ⑦ Item 659, Seeding And Mulching, Class 1
- ⑧ Item 407, Non-Tracking Tack Coat for Intermediate Course (0.075 gal per sq. yd.)
- ⑨ Item 407, Non-Tracking Tack Coat (0.10 gal per sq. yd.)

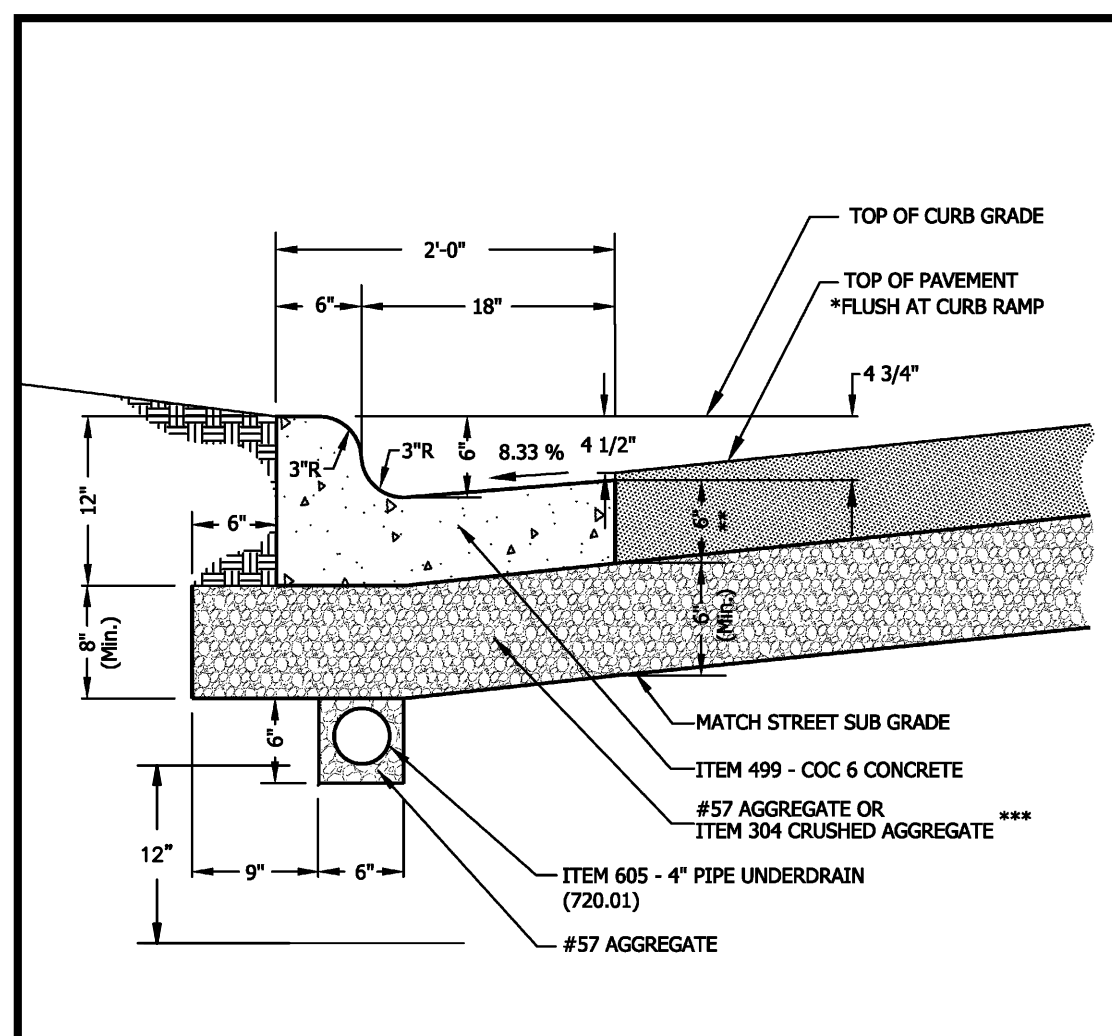
Note: 441 Surface Course to be installed within 7 days of intermediate course or provide Tack Coat (407) @ 0.15 gal per sq. yd. at Contractors expense.



16 UNIT CBU (TYPICAL OF 1)  
Not to Scale

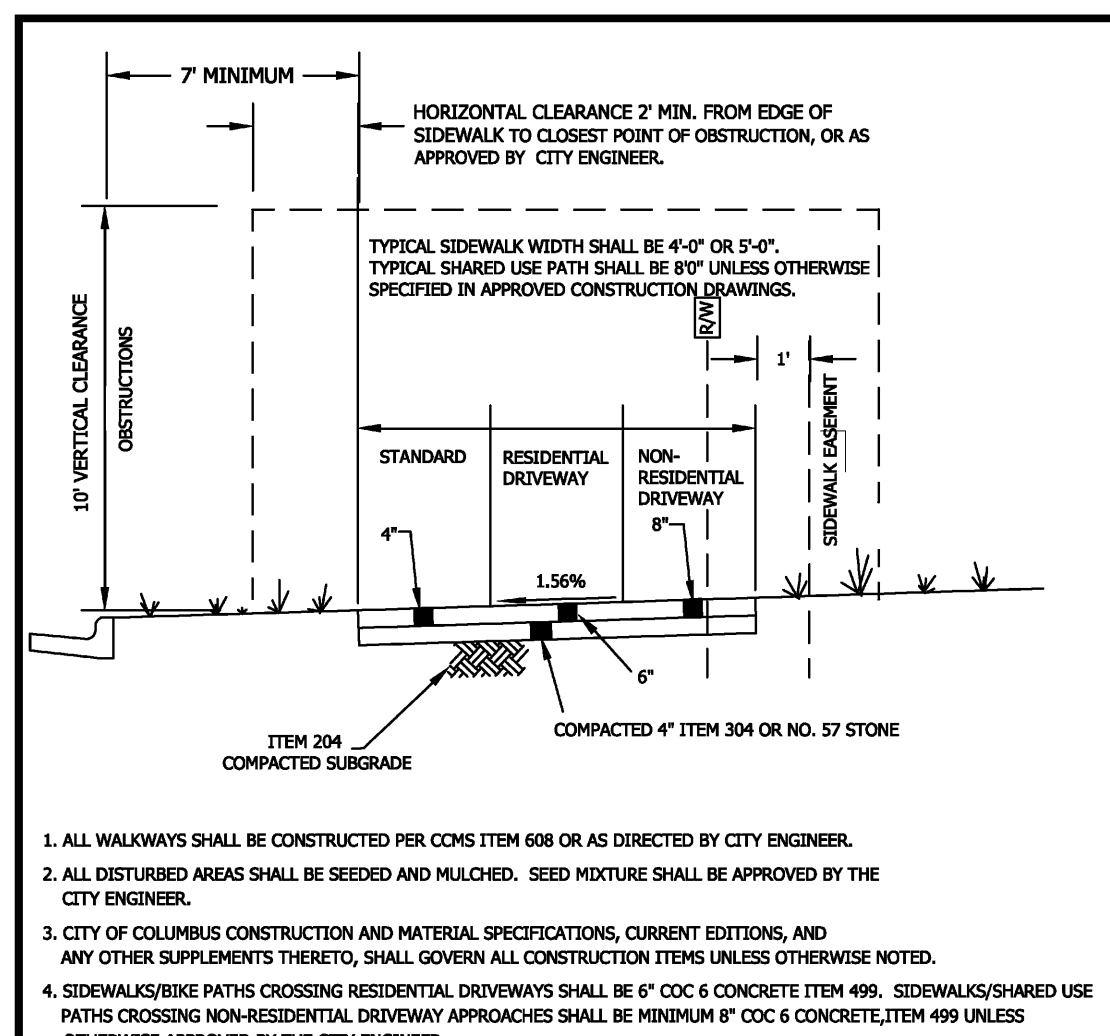


12 UNIT CBU (TYPICAL OF 1)  
Not to Scale



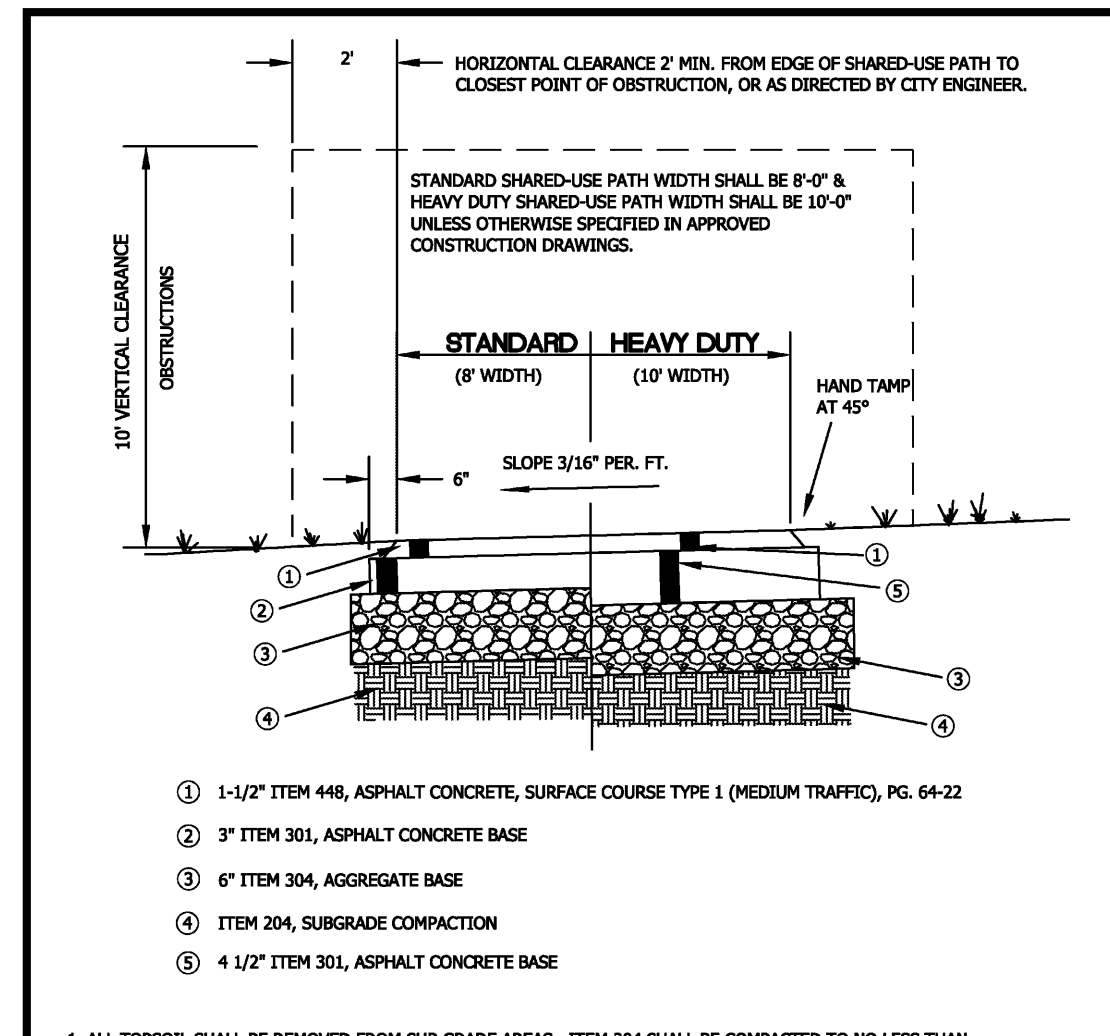
\* SEE DRAWING RD-03 FOR GUTTER TRANSITION AT CURB RAMP.  
 \*\* 10" MINIMUM AT COMMERCIAL DRIVE ENTRANCES/HEAVY DUTY CURB AND GUTTER  
 \*\*\* FOR NEW ROAD CONSTRUCTION, ITEM 304 AGGREGATE BASE SHALL BE USED UNDER THE CURB SECTION AND PLACED AT THE SAME TIME AND LIFT THICKNESS AS THE 304 AGGREGATE BASE UNDER THE PAVEMENT SECTION.

City of Dublin ENGINEERING  
 STANDARD DRAWING  
**COMBINATION CONCRETE CURB AND GUTTER**  
 SHEET 1 OF 1 DRAWING NO. RD-02



- ALL WALKWAYS SHALL BE CONSTRUCTED PER CONS ITEM 608 OR AS DIRECTED BY CITY ENGINEER.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SEED MIXTURE SHALL BE APPROVED BY THE CITY ENGINEER.
- CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY OTHER SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED.
- SIDEWALKS/BIKE PATHS CROSSING RESIDENTIAL DRIVEWAYS SHALL BE 6" COC 6 CONCRETE ITEM 499. SIDEWALKS/SHARED USE PATHS CROSSING NON-RESIDENTIAL DRIVEWAY APPROACHES SHALL BE MINIMUM 8" COC 6 CONCRETE, ITEM 499 UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL COMMERCIAL DRIVES SHALL HAVE 6" OF ITEM 304.
- INSPECTION SCHEDULING SHALL BE MADE WITH THE BUILDING DIVISION WHEN CONCRETE FORMS ARE READY FOR INSPECTION, AT LEAST 48 HOURS BEFORE CONCRETE IS TO BE PLACED AT (614) 410 - 4680.
- ALL SHARED USE PATH JOINTS ARE TO BE SAWCUT.
- SIDEWALKS/FLATWORK SHALL BE TOoled CUT & RETRADED.
- FULL DEPTH EXPANSION MATERIAL (1/2" THICK) SHALL BE PLACED ADJOINING ALL EXISTING CONCRETE CONFORMING TO ASTM D-1752 TYPE 1.

City of Dublin ENGINEERING  
 STANDARD DRAWING  
**CONCRETE SIDEWALK AND SHARED-USE PATH**  
 SHEET 1 OF 1 DRAWING NO. RD-05



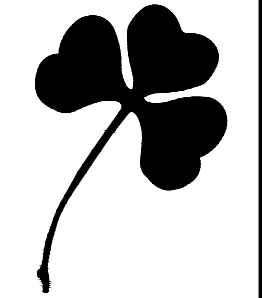
- 1-1/2" ITEM 448, ASPHALT CONCRETE, SURFACE COURSE TYPE 1 (MEDIUM TRAFFIC), PG. 64-22
  - 3" ITEM 301, ASPHALT CONCRETE BASE
  - 6" ITEM 304, AGGREGATE BASE
  - ITEM 204, SUBGRADE COMPACTION
  - 4 1/2" ITEM 301, ASPHALT CONCRETE BASE
- ALL TOPSOIL SHALL BE REMOVED FROM SUB GRADE AREAS. ITEM 204 SHALL BE COMPACTED TO NO LESS THAN 98% OF MAX. DRY DENSITY. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
  - ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SEED MIXTURE REQUIRES THE APPROVAL OF THE CITY ENGINEER.
  - PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  - SHARED-USE PATHS CROSSING CONCRETE RESIDENTIAL DRIVEWAY APPROACHES SHALL BE 6" PC CONCRETE ACROSS THE WIDTH OF THE DRIVEWAY APPROACH, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. SHARED-USE PATHS CROSSING RESIDENTIAL DRIVEWAY APPROACHES SHALL MATCH THE THICKNESS AND CROSS-SECTION OF THE DRIVEWAY APPROACH OR 6" PC CONCRETE, WHICHEVER IS GREATER, AS APPROVED BY THE CITY ENGINEER.
  - FOR GEOMETRIC STANDARDS FOR CURB RAMP REFER TO DUBLIN STD. DWG. PD-01.

City of Dublin ENGINEERING  
 STANDARD DRAWING  
**SHARED-USE PATH: STANDARD AND HEAVY DUTY**  
 SHEET 1 OF 1 DRAWING NO. RD-06

ESTIMATE OF QUANTITIES			
The Quantities Have Been Established As A Means For The City To Estimate The Necessary Development Fees. The Contractor Shall Be Solely Responsible For Determining The Required Bid Quantities Necessary For The Completion Of The Plan Improvements			
ITEM	QUANTITY	UNIT	DESCRIPTION
<b>SECTION 2 STREET</b>			
201	Lump	Sum	Clearing & Grubbing
203	Lump	Sum	Excavation Including Embankment Construction
204	4918	SY	Subgrade Compaction
301	335	CY	3" Bituminous Aggregate Base Course
304	670	CY	6" Aggregate Base
407	302	GAL	Tack Coat for Intermediate Course (Applied at 0.075 Gal/SY)
407	402	GAL	Tack Coat (Applied at 0.10 Gal/SY)
441	140	CY	1-1/4" Asphalt Concrete, Surface Course, Type 1, PG 64-22, Medium Traffic
441	196	CY	1-3/4" Asphalt Concrete, Intermediate Course, Type 2, PG 64-22, Medium Traffic
605	2778	LF	4" Pipe Underdrain
608	6	Each	Curb Ramps w/ Detectable Warnings
609	2778	LF	Concrete Curb & Gutter
653	173	CY	3" Topsoil Furnished and Placed
659	4032	SY	Permanent Seeding and Mulching (RW & Reserves)
659	34747	SY	Temporary Seeding and Mulching
<b>SHARED-USE PATH</b>			
204	989	SY	Subgrade Compaction
301	83	CY	3" Asphalt Concrete Base
304	165	CY	6" Aggregate Base
441	35	CY	1-1/4" Asphalt Concrete, Surface Course, Type 1, PG 64-22, Medium Traffic
<b>STORM SEWER</b>			
604	1	Each	Manhole Type "C" (AA-S102 & ST-03)
604	10	Each	Curb and Gutter Inlet (AA-S125A & ST-04)
604	1	Each	Double Curb and Gutter Inlet (AA-S125B & ST-04)
604	1	Each	Catch Basin (AA-S133A)
604	2	Each	Catch Basin (AA-S133B)
604	8	Each	Catch Basin (AA-S134B w/Side Inlet)
901	217	LF	12" Reinforced Concrete Pipe
901	418	LF	12" Reinforced Concrete Pipe w/Joints per ASTM C-443
901	385	LF	18" Reinforced Concrete Pipe
901	265	LF	18" Reinforced Concrete Pipe w/Joints per ASTM C-443
901	840	LF	24" Reinforced Concrete Pipe
901	295	LF	30" Reinforced Concrete Pipe
<b>WATER</b>			
801	1439	LF	8" Water Pipe
802	4	Each	6" Valve (Hydrants)
802	2	Each	8" Valve w/ Box
805	11	Each	3/4" Water Service-Long
805	18	Each	3/4" Water Service-Short
809	4	Each	Fire Hydrant Type B (Including Appurtenances)
<b>EROSION AND SEDIMENT CONTROL</b>			
207	17	Each	Inlet Protection (Dandy Bag)
207	13	Each	Inlet Protection (Dandy Curb Bag)
207	1906	LF	Silt Fence
207	1	Each	Construction Entrance
SPEC	1	Each	Concrete Washout
<b>SIGNAGE</b>			
801	4	Each	Street Name Sign, Complete per Dublin Std Dwg R-10
801	1	Each	Stop Sign, Complete per Dublin Std Dwg R-10

Calculated By: KEU Date: 07/01/2022 Checked By: JCB Date: 07/07/2022

REFERENCE: **MINIMUM**  
**NOT TO BE USED FOR CONSTRUCTION**  
**PLAN SET DATE: AUGUST 2, 2022**

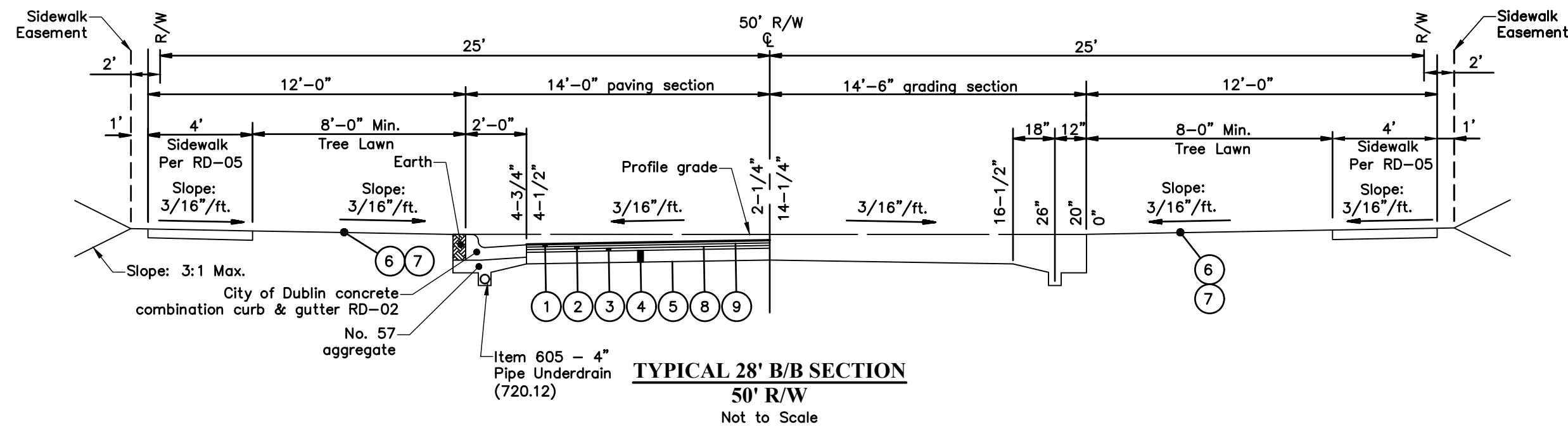


CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
**SECTION 2**  
 QUANTITIES, DETAILS, & TYPICAL SECTIONS

**EMHT**  
 Earth & Mechanical Consultants & Engineers, Inc.  
 Engineers • Surveyors • Planners • Scientists  
 5000 New Albany Road, Columbus, OH 43264  
 Phone: 614.757.5500 Fax: 614.757.5500  
 emht.com

DATE: AUGUST 2, 2022  
 SCALE: NONE  
 JOB NO.: 2020-1174  
 SHEET: 3/13





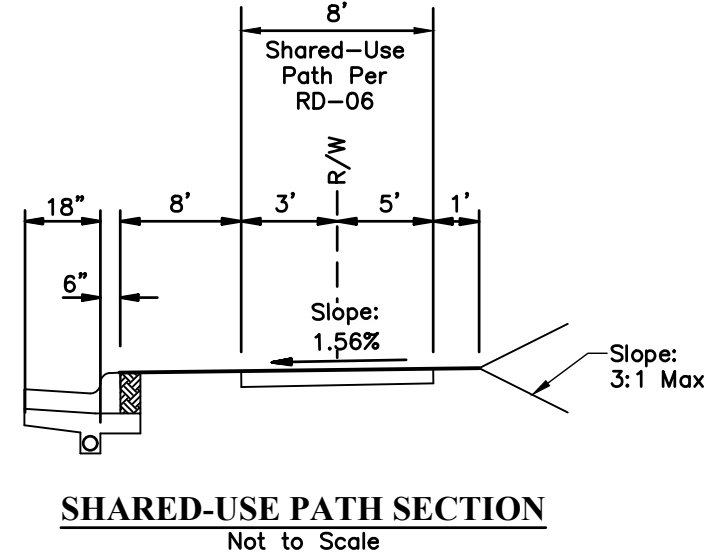
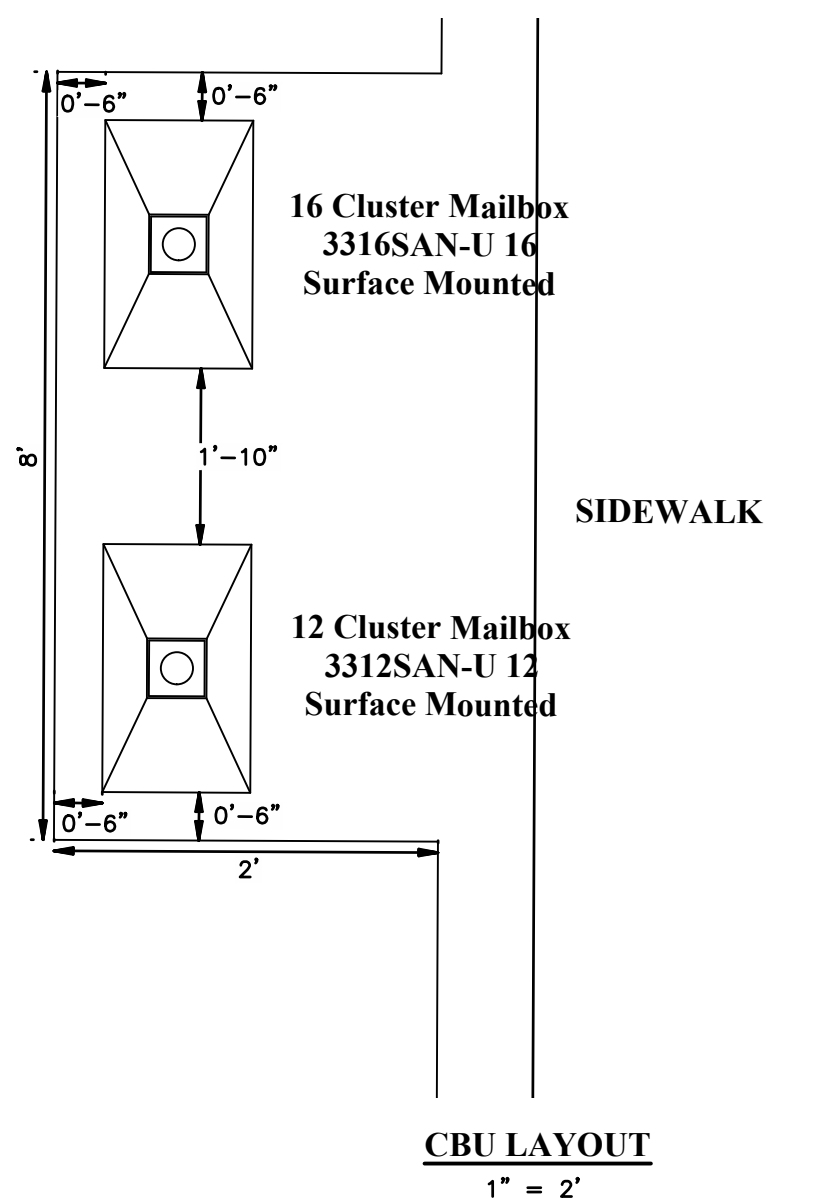
TANSEYCLOSE LANE - @STA 1+43.28 to @STA 12+12.70  
 LANGLEY DRIVE - @STA 4+75.00 to @STA 6+35.00  
 TANSEYCLOSE LANE (EYEBROW) - @STA 0+00.00 to @STA 2+78.93

Pvmt Section per City of Dublin Typical Section, Standard Drawing RD-01.

**PAVEMENT LEGEND**

- ① Item 448, 1.25" Asphalt Concrete, Surface Course, Type 1, Pg 64-22, Medium Traffic
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- ⑥ Item 653 - 3" Topsoil Furnished And Placed
- ⑦ Item 659, Seeding And Mulching, Class 1
- ⑧ Item 407, Non-Tracking Tack Coat for Intermediate Course (0.075 gal per sq. yd.)
- ⑨ Item 407, Non-Tracking Tack Coat (0.10 gal per sq. yd.)

Note: 441 Surface Course to be installed within 7 days of intermediate course or provide Tack Coat (407) @ 0.15 gal per sq. yd. at Contractors expense.



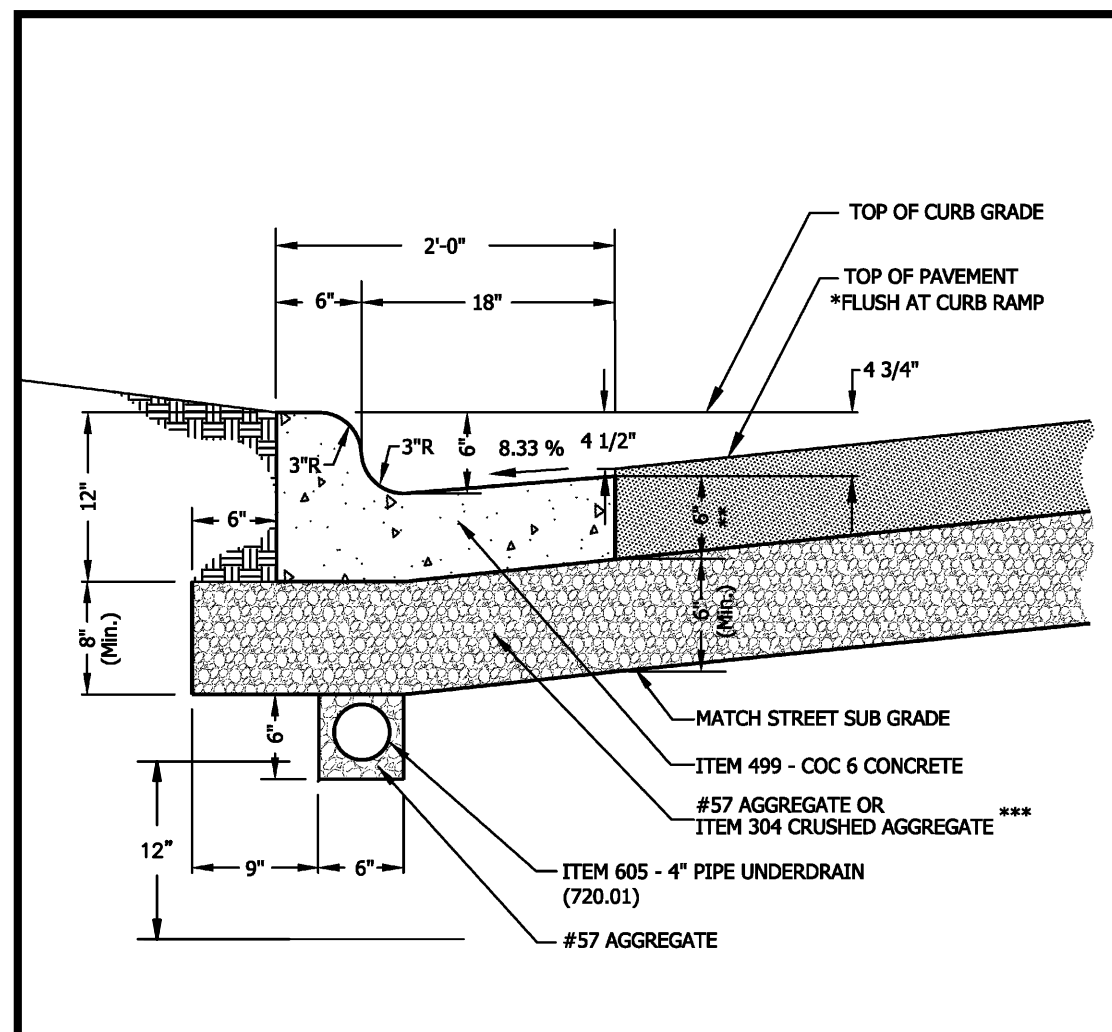
TANSEYCLOSE LANE - @STA 0+00.00 to @STA 12+12.70



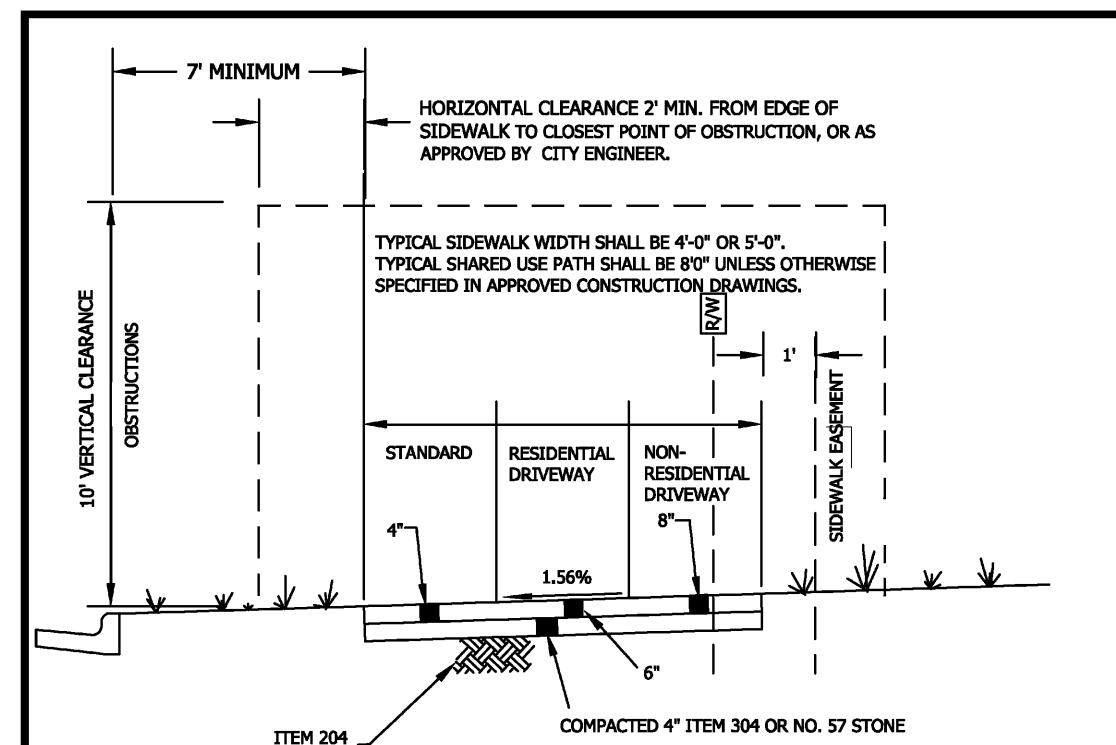
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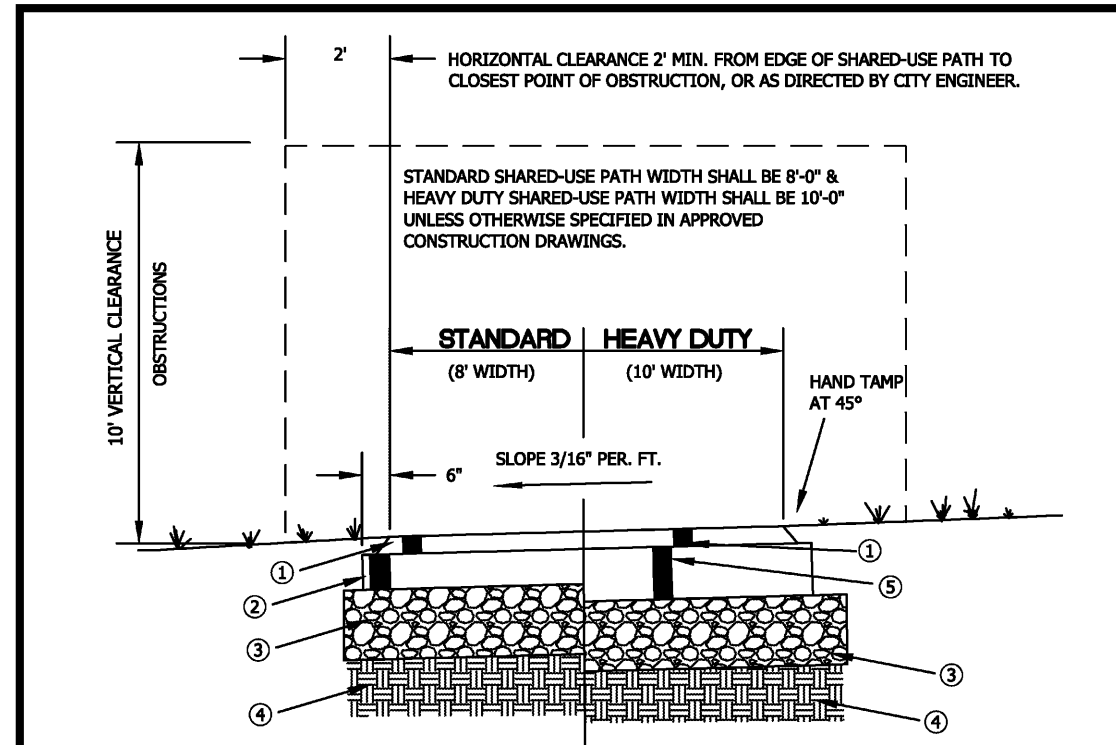
12 UNIT CBU (TYPICAL OF 1)  
Not to Scale



\* SEE DRAWING RD-03 FOR GUTTER TRANSITION AT CURB RAMP.  
 \*\* 10" MINIMUM AT COMMERCIAL DRIVE ENTRANCES/HEAVY DUTY CURB AND GUTTER  
 \*\*\* FOR NEW ROAD CONSTRUCTION, ITEM 304 AGGREGATE BASE SHALL BE USED UNDER THE CURB SECTION AND PLACED AT THE SAME TIME AND LIFT THICKNESS AS THE 304 AGGREGATE BASE UNDER THE PAVEMENT SECTION.



- ALL WALKWAYS SHALL BE CONSTRUCTED PER CONS ITEM 608 OR AS DIRECTED BY CITY ENGINEER.
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- ALL COMMERCIAL DRIVES SHALL HAVE 6" OF ITEM 304.
- INSPECTION SCHEDULING SHALL BE MADE WITH THE BUILDING DIVISION WHEN CONCRETE FORMS ARE READY FOR INSPECTION, AT LEAST 48 HOURS BEFORE CONCRETE IS TO BE PLACED AT (614) 410-4680.
- ALL SHARED USE PATH JOINTS ARE TO BE SAWCUT.
- SIDEWALKS/FLATWORK SHALL BE TOOL CUT & RETRADED.
- FULL DEPTH EXPANSION MATERIAL (1/2" THICK) SHALL BE PLACED ADJOINING ALL EXISTING CONCRETE CONFORMING TO ASTM D-1752 TYPE 1.



- 1-1/2" ITEM 448, ASPHALT CONCRETE, SURFACE COURSE TYPE 1 (MEDIUM TRAFFIC), PG. 64-22
  - 3" ITEM 301, ASPHALT CONCRETE BASE
  - 6" ITEM 304, AGGREGATE BASE
  - ITEM 204, SUBGRADE COMPACTION
  - 4 1/2" ITEM 301, ASPHALT CONCRETE BASE
- ALL TOPSOIL SHALL BE REMOVED FROM SUB GRADE AREAS. ITEM 204 SHALL BE COMPACTED TO NO LESS THAN 98% OF MAX. DRY DENSITY. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
  - ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. SEED MIXTURE REQUIRES THE APPROVAL OF THE CITY ENGINEER.
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  - FOR GEOMETRIC STANDARDS FOR CURB RAMP REFER TO DUBLIN STD. DWG. PD-01.

ESTIMATE OF QUANTITIES						
The Quantities Have Been Established As A Means For The City To Estimate The Necessary Development Fees. The Contractor Shall Be Solely Responsible For Determining The Required Bid Quantities Necessary For The Completion Of The Plan Improvements						
ITEM	QUANTITY	UNIT	DESCRIPTION	SECTION	STREET	
<b>SECTION 2</b>						
<b>STREET</b>						
201	Lump	Sum	Clearing & Grubbing			
203	Lump	Sum	Excavation Including Embankment Construction			
204	4918	SY	Subgrade Compaction			
301	335	CY	3" Bituminous Aggregate Base Course			
304	670	CY	6" Aggregate Base			
407	302	GAL	Tack Coat for Intermediate Course (Applied at 0.075 Gal/SY)			
407	402	GAL	Tack Coat (Applied at 0.10 Gal/SY)			
441	140	CY	1-1/4" Asphalt Concrete, Surface Course, Type 1, PG 64-22, Medium Traffic			
441	196	CY	1-3/4" Asphalt Concrete, Intermediate Course, Type 2, PG 64-22, Medium Traffic			
605	2778	LF	4" Pipe Underdrain			
608	10	Each	Curb Ramps w/Detectable Warnings			
608	147	SF	4" Concrete Sidewalk			
609	2778	LF	Concrete Curb & Gutter			
653	173	CY	3" Topsoil Furnished and Placed			
659	4032	SY	Permanent Seeding and Mulching (RW & Reserves)			
659	34747	SY	Temporary Seeding and Mulching			
<b>SHARED-USE PATH</b>						
204	989	SY	Subgrade Compaction			
301	83	CY	3" Asphalt Concrete Base			
304	165	CY	6" Aggregate Base			
441	35	CY	1-1/4" Asphalt Concrete, Surface Course, Type 1, PG 64-22, Medium Traffic			
<b>STORM SEWER</b>						
604	1	Each	Manhole Type "C" (AA-S102 & ST-03)			
604	9	Each	Curb and Gutter Inlet (AA-S125A & ST-04)			
604	2	Each	Double Curb and Gutter Inlet (AA-S125B & ST-04)			
604	1	Each	Catch Basin (AA-S133A)			
604	2	Each	Catch Basin (AA-S133B)			
604	8	Each	Catch Basin (AA-S134B w/Side Inlet)			
901	236	LF	12" Reinforced Concrete Pipe			
901	418	LF	12" Reinforced Concrete Pipe w/Joints per ASTM C-443			
901	20	LF	15" Reinforced Concrete Pipe w/Joints per ASTM C-443			
901	405	LF	18" Reinforced Concrete Pipe			
901	264	LF	18" Reinforced Concrete Pipe w/Joints per ASTM C-443			
901	839	LF	24" Reinforced Concrete Pipe			
901	295	LF	30" Reinforced Concrete Pipe			
<b>WATER</b>						
801	1439	LF	8" Water Pipe			
802	4	Each	6" Valve (Hydrants)			
802	2	Each	8" Valve w/ Box			
805	11	Each	3/4" Water Service-Long			
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809	4	Each	Fire Hydrant Type B (Including Appurtenances)			
<b>EROSION AND SEDIMENT CONTROL</b>						
207	17	Each	Inlet Protection (Dandy Bag)			
207	13	Each	Inlet Protection (Dandy Curb Bag)			
207	1906	LF	Silt Fence			
207	1	Each	Construction Entrance			
SPEC	1	Each	Concrete Washout			
<b>SIGNAGE</b>						
801	4	Each	Street Name Sign, Complete per Dublin Std Dwg R-10			
801	1	Each	Stop Sign, Complete per Dublin Std Dwg R-10			

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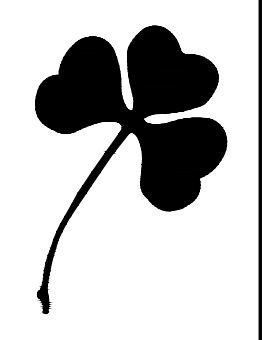
City of Dublin ENGINEERING  
 STANDARD DRAWING  
**COMBINATION CONCRETE CURB AND GUTTER**  
 SHEET 1 OF 1 DRAWING NO. **RD-02**

City of Dublin ENGINEERING  
 STANDARD DRAWING  
**CONCRETE SIDEWALK AND SHARED-USE PATH**  
 SHEET 1 OF 1 DRAWING NO. **RD-05**

City of Dublin ENGINEERING  
 STANDARD DRAWING  
**SHARED-USE PATH: STANDARD AND HEAVY DUTY**  
 SHEET 1 OF 1 DRAWING NO. **RD-06**

PRELIMINARY  
 NOT TO BE USED FOR CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK DATE DESCRIPTION



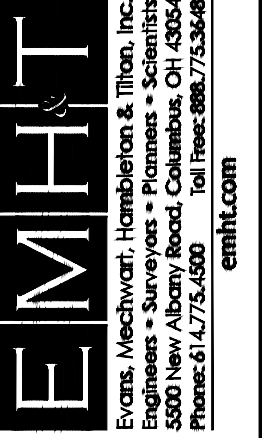
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
 SECTION 2  
 QUANTITIES, DETAILS, & TYPICAL SECTIONS

**EMHT**  
 Earth & Mechanical Consultants & Engineers, Inc.  
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 5000 New Albany Road, Columbus, OH 43264  
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 emht.com

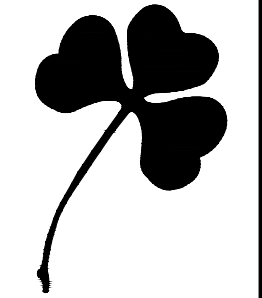
DATE  
 DECEMBER 20, 2022  
 SCALE  
 NONE  
 JOB NO.  
 2020-1174  
 SHEET  
 3/13



WATER SURVEY COORDINATES TO BE DONE  
UPON FINAL APPROVAL OF LOCATION.



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
FOR  
**AVONDALE WOODS**  
SECTION 2  
WATER COORDINATE TABLES



MARK	DATE	DESCRIPTION

**REVISIONS**  
**PRELIMINARY**  
**NOT TO BE USED FOR**  
**CONSTRUCTION**  
**PLAN SET DATE**  
**DECEMBER 20, 2022**

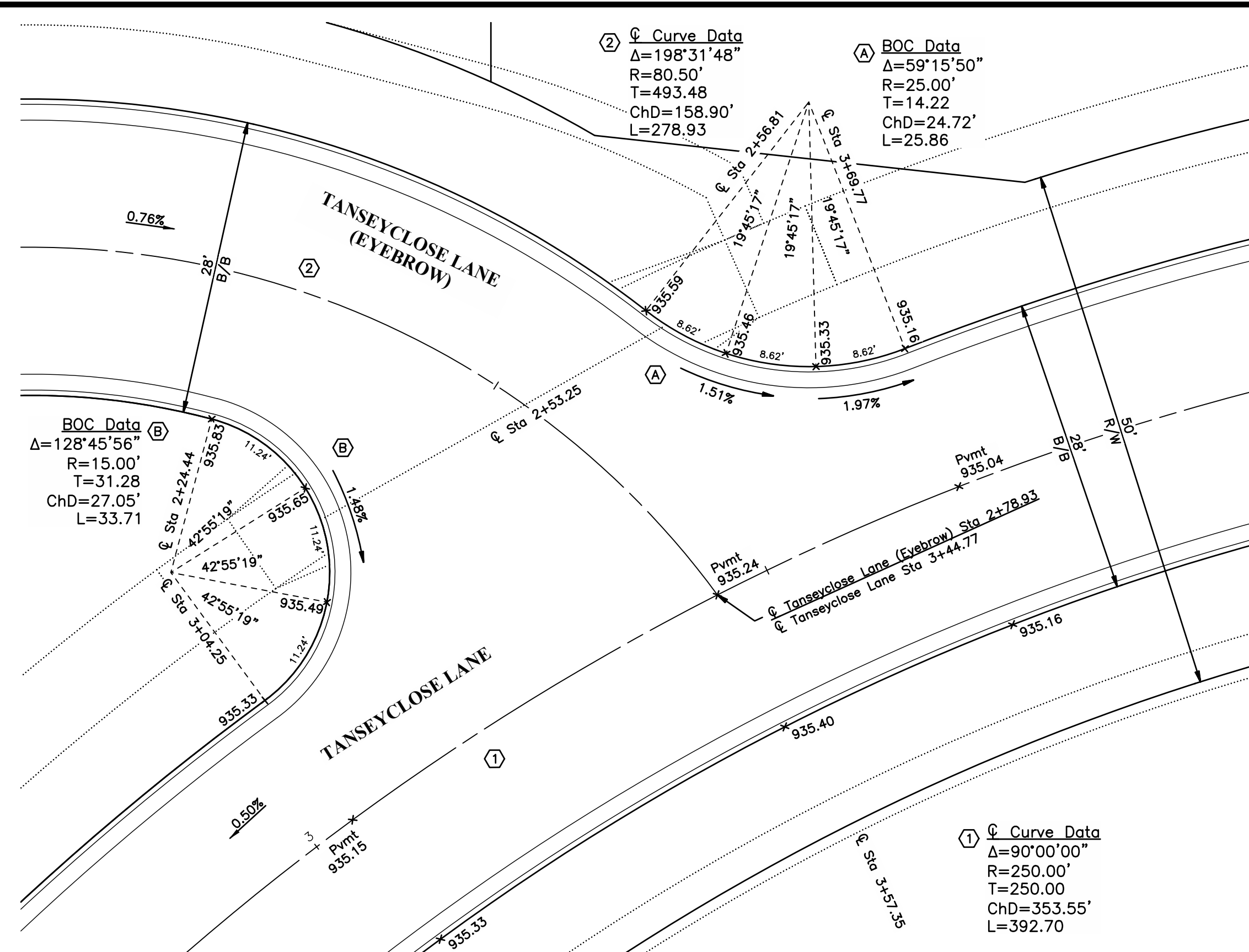
DATE  
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SCALE  
NONE

JOB NO.  
2020-1174

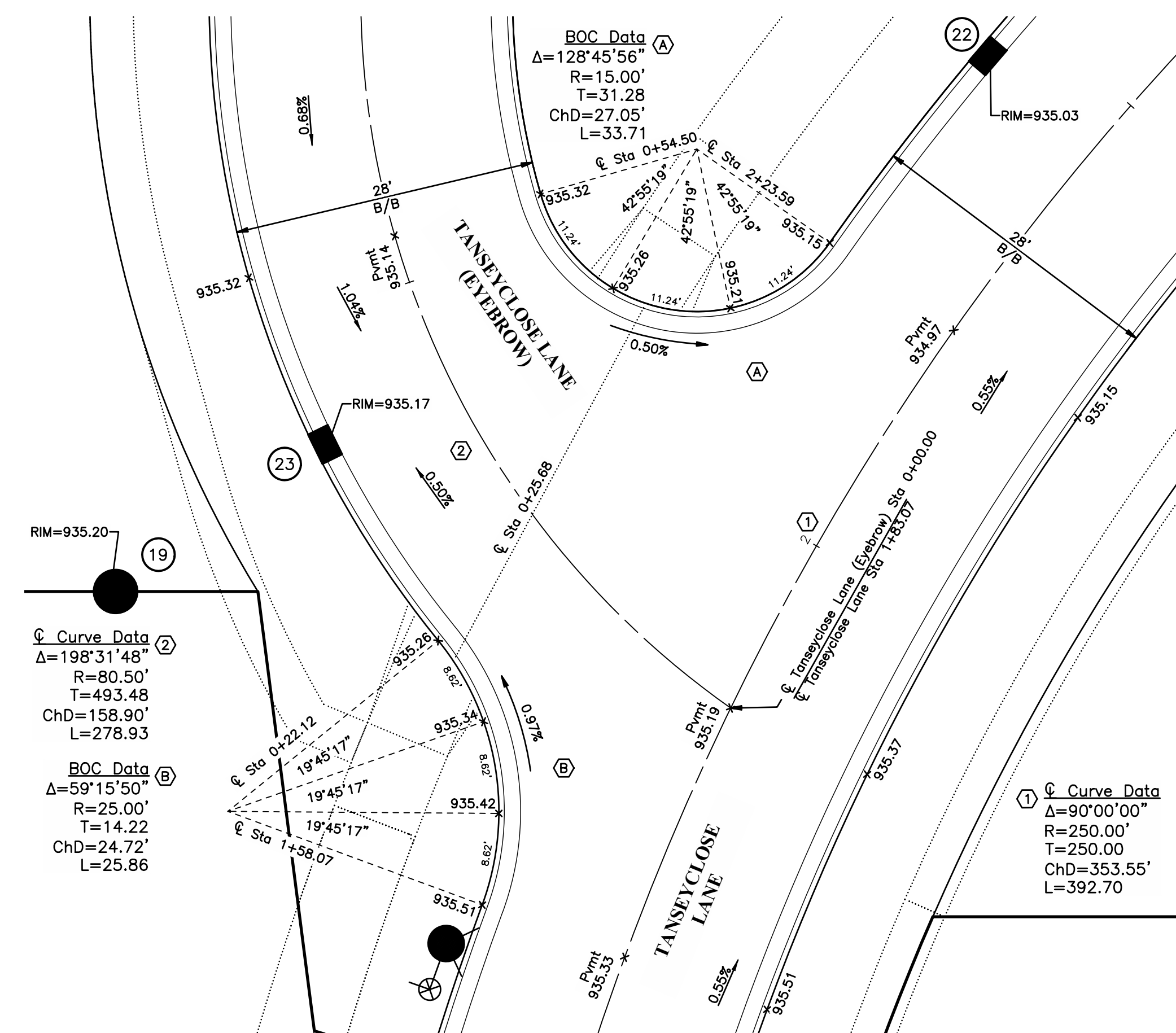
SHEET  
4/13





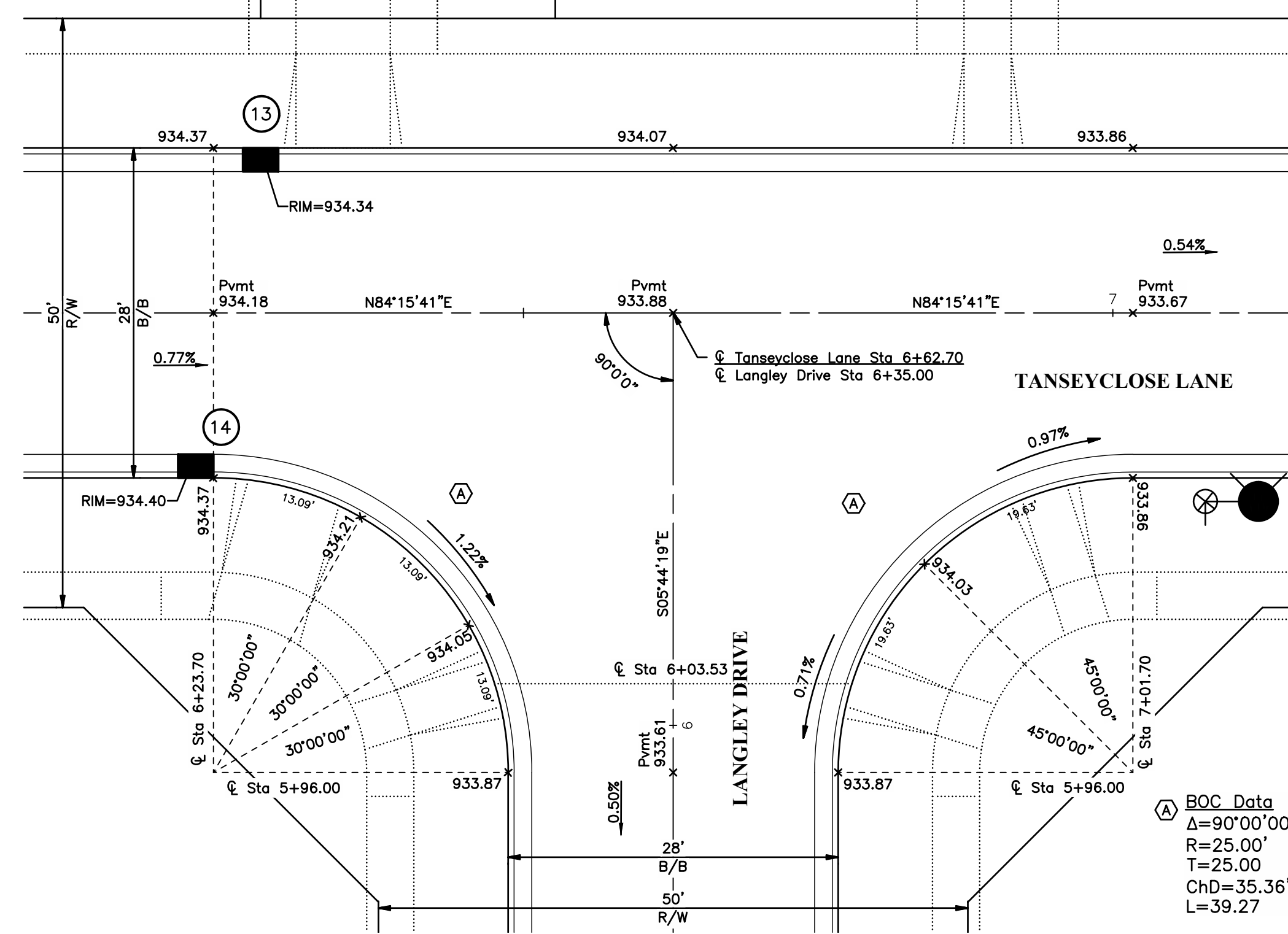
**INTERSECTION DETAIL**

Scale: 1" = 10'  
 Tanseyclose Lane (Eyebrow) &  
 Tanseyclose Lane  
 (North Leg)



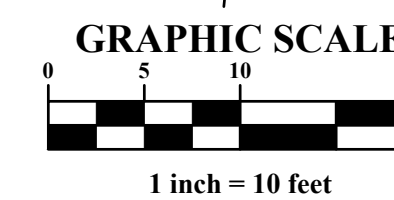
**INTERSECTION DETAIL**

Scale: 1" = 10'  
 Tanseyclose Lane (Eyebrow) &  
 Tanseyclose Lane  
 (South Leg)



**INTERSECTION DETAIL**

Scale: 1" = 10'  
 Tanseyclose Lane  
 & Langley Drive



**LEGEND**

- Existing Multi-Use Path
- Proposed Multi-Use Path
- Sidewalk (By Developer)

**NOTE:**

All elevations are top of curb unless otherwise noted.  
 PVMT Top of Pavement

**\*\* Ramp slope (5.0% min. - 7.69% max.) is designed @ 7.12% unless otherwise noted.**

**\*\*\* Top landing slope shall not exceed 1.56%**

**Notes:**  
 Detectable Warnings shall be provided wherever a curb ramp crosses a vehicular way, excluding unsignalized driveway crossings.

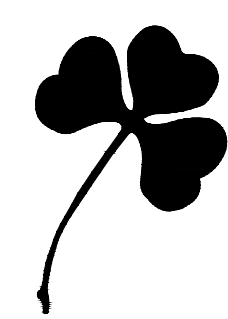
All detectable warnings shall be ADA Solutions Tactile Warning Surface Mats - Replaceable Wet-Set Composite Tactile with a dome spacing of 2.35 inches, manufacturer part number 2448REP. Brick red color shall be used in most locations unless otherwise noted. The cost of this work will be paid at the unit price bid per each, and shall be in addition to any overlapping payments per square foot for sidewalk or pedestrian path.

Refer to Dublin Standard Drawings PD-01, 02, 03, 04, and 06 for curb ramp requirements & RD-03 for typical curb section.

**HANDICAP RAMP DETAILS**  
 Not to Scale

**PRELIMINARY**  
**NOT TO BE USED FOR CONSTRUCTION**  
**PLAN SET DATE**  
**DECEMBER 20, 2022**

MARK	DATE	DESCRIPTION



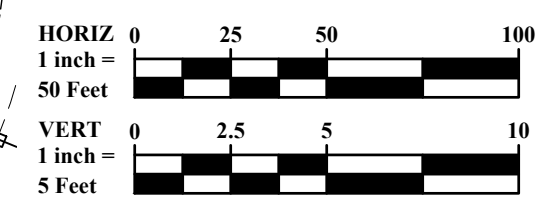
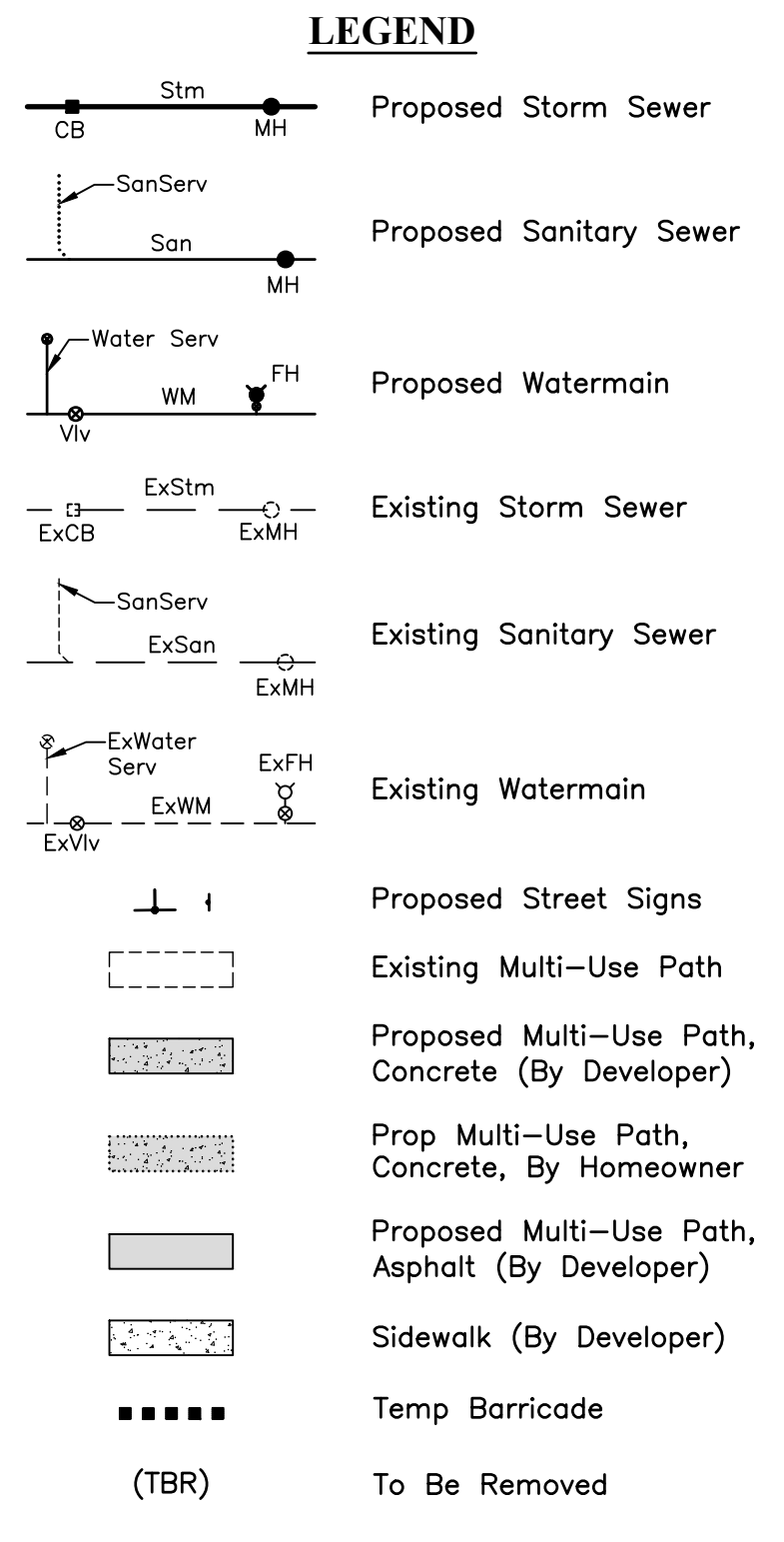
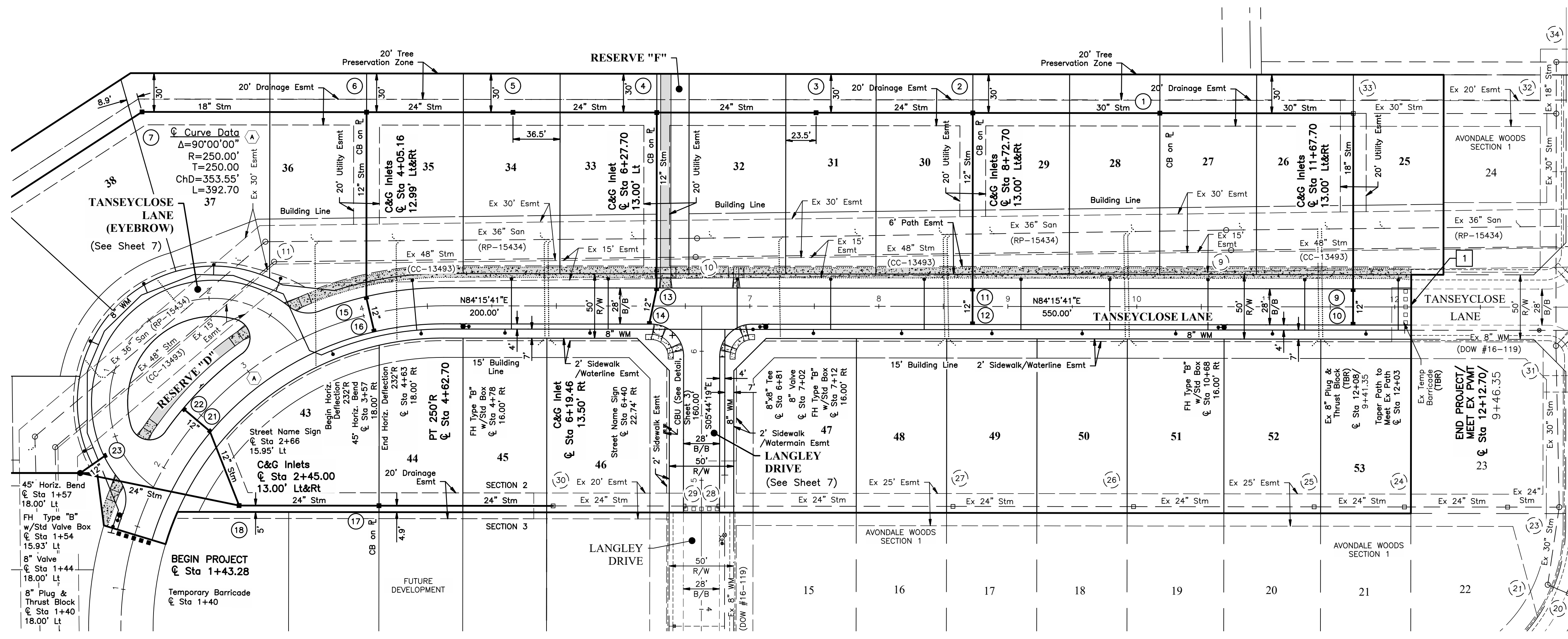
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
**SECTION 2**  
**INTERSECTION & CURB RAMP DETAILS**

EMHT  
 5000 New Albany Road, Columbus, OH 43254  
 Phone: 614.757.5500 Fax: 614.757.5500  
 emht.com

DATE	DECEMBER 20, 2022
SCALE	1" = 10'
JOB NO.	2020-1174
SHEET	5/13

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**NOTES:**

Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation out to between any sanitary or storm sewer piping and structures and all proposed water mains.

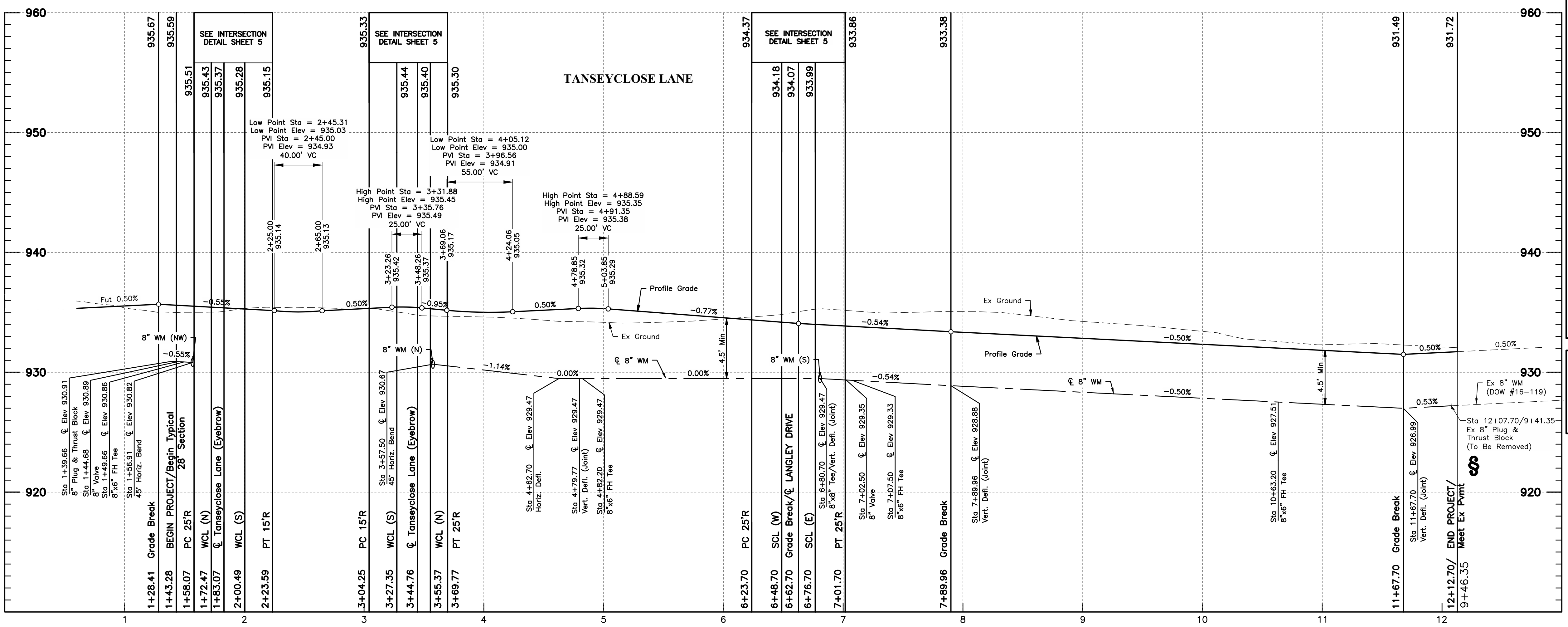
Contractor must verify invert and location of existing utility before construction. If there is a discrepancy between the contractor's information and the plan information shown, the contractor is to contact the engineer of record prior to starting construction.

Required signs can be manufactured by the City of Dublin or Developer. If the city of Dublin fabricated and installs the signs, please contact John Babyak (614-410-4718) for coordination and provide a detailed sign plan to the City. If Developer manufactures the signs, the City requires shop drawing approvals prior to installation of signs.

Match existing pavement using butt joint per ODOT Standard Drawing BP-3.1 as required

**CLUSTER BOX UNITS NOTE:**

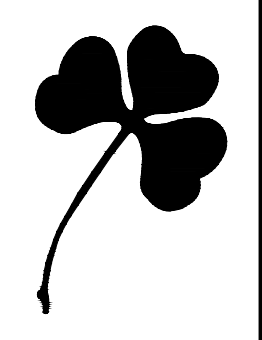
Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation out to between any sanitary or storm sewer piping and structures and all proposed water mains.



REVISED DURING CONSTRUCTION

PLAN SET DATE: DECEMBER 20, 2022

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
FOR  
**AVONDALE WOODS SECTION 2**  
PLAN & PROFILE

**E.M.H.T.**  
Engineers • Mathematicians • Hydrologists & Technicians, Inc.  
5000 New Albany Road, Columbus, OH 43254  
Phone: 614.757.5500 Fax: 614.757.5500  
emht.com

DATE: DECEMBER 20, 2022

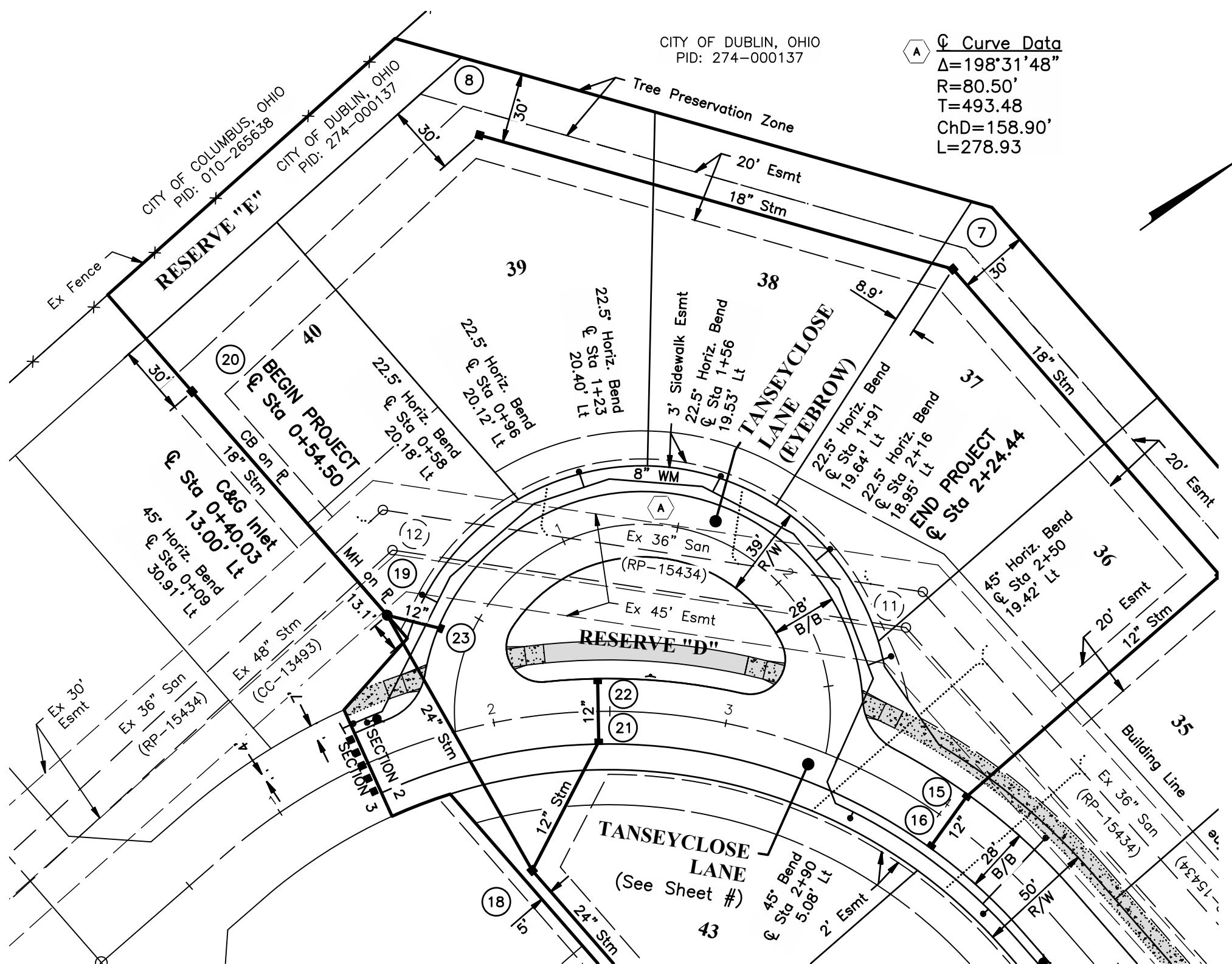
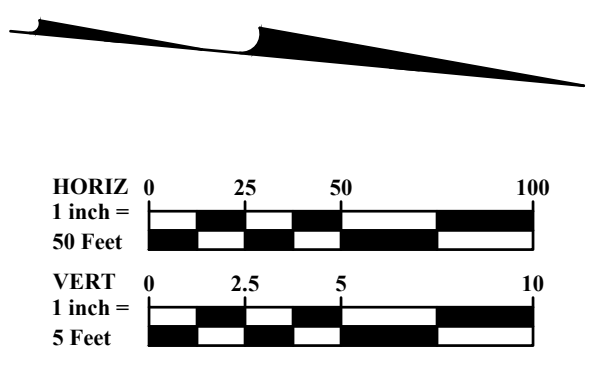
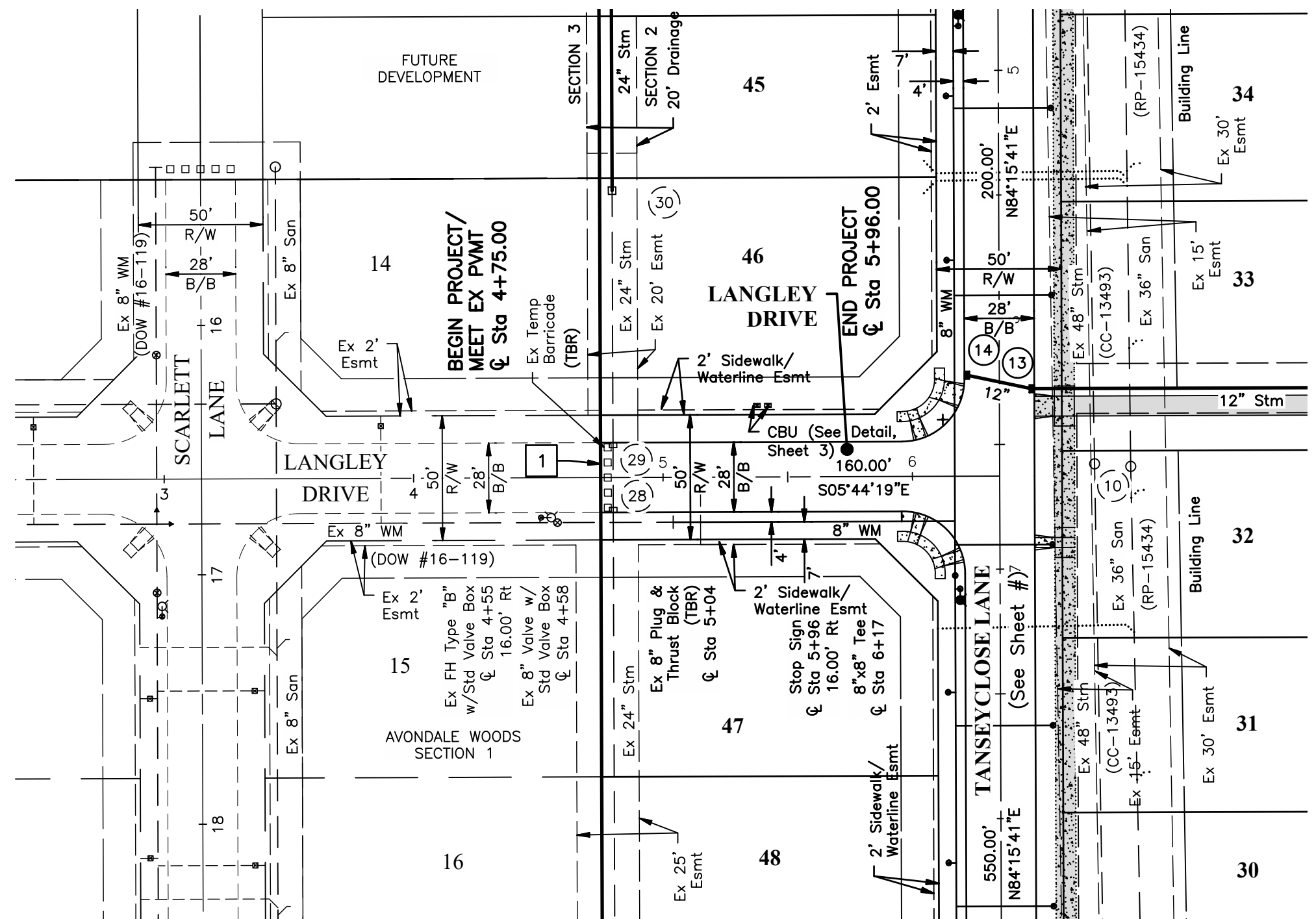
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Vert: 1" = 5'

JOB NO.: 2020-1174

SHEET: 6/13

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**LEGEND**

	Proposed Storm Sewer
	Proposed Sanitary Sewer
	Proposed Watermain
	Existing Storm Sewer
	Existing Sanitary Sewer
	Existing Watermain
	Proposed Street Signs
	Existing Multi-Use Path
	Proposed Multi-Use Path, Concrete (By Developer)
	Proposed Multi-Use Path, Asphalt (By Developer)
	Sidewalk (By Developer)
	Temp Barricade
	To Be Removed

**NOTES:**

Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation out to out between any sanitary or storm sewer piping and structures and all proposed water mains.

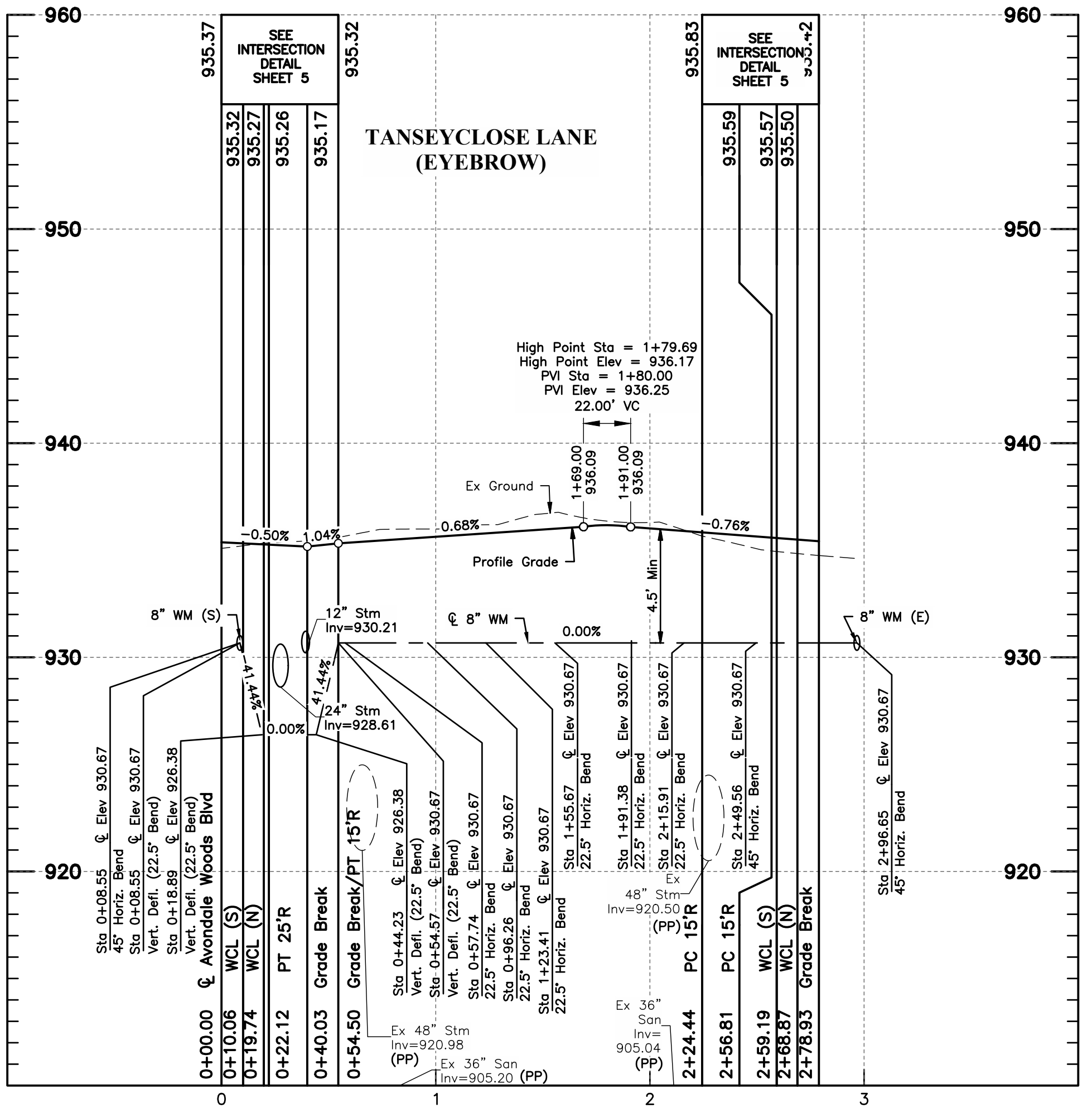
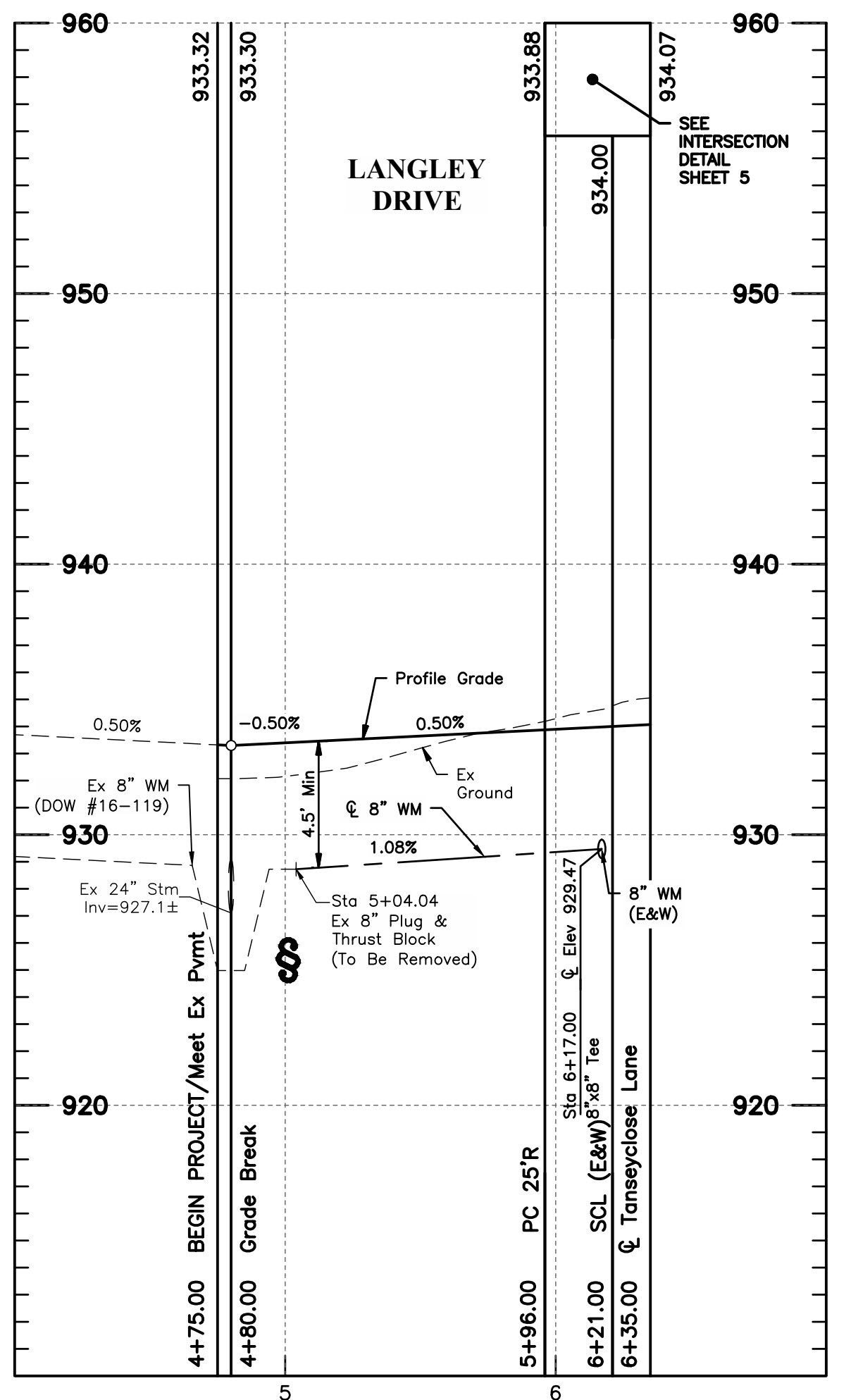
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Match existing pavement using bott joint per ODOT Standard Design Drawing BP-3.1 as required.

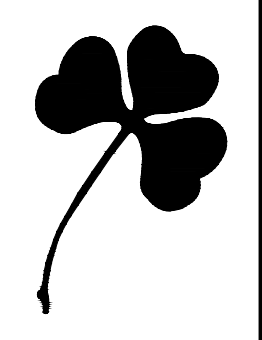
**CLUSTER BOX UNITS NOTE:**

Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation out to out between any sanitary or storm sewer piping and structures and all proposed water mains.



PRELIMINARY  
 NOT TO BE USED FOR  
 CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS SECTION 2**  
 PLAN & PROFILE

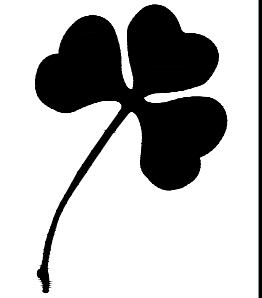


DATE	DECEMBER 20, 2022
SCALE	Horiz: 1" = 50' Vert: 1" = 5'
JOB NO.	2020-1174
SHEET	7/13

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PRELIMINARY  
NOT TO BE USED FOR  
CONSTRUCTION  
PLAN SET DATE  
DECEMBER 20, 2022



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
FOR  
**AVONDALE WOODS**  
SECTION 2  
STORM SEWER PROFILES

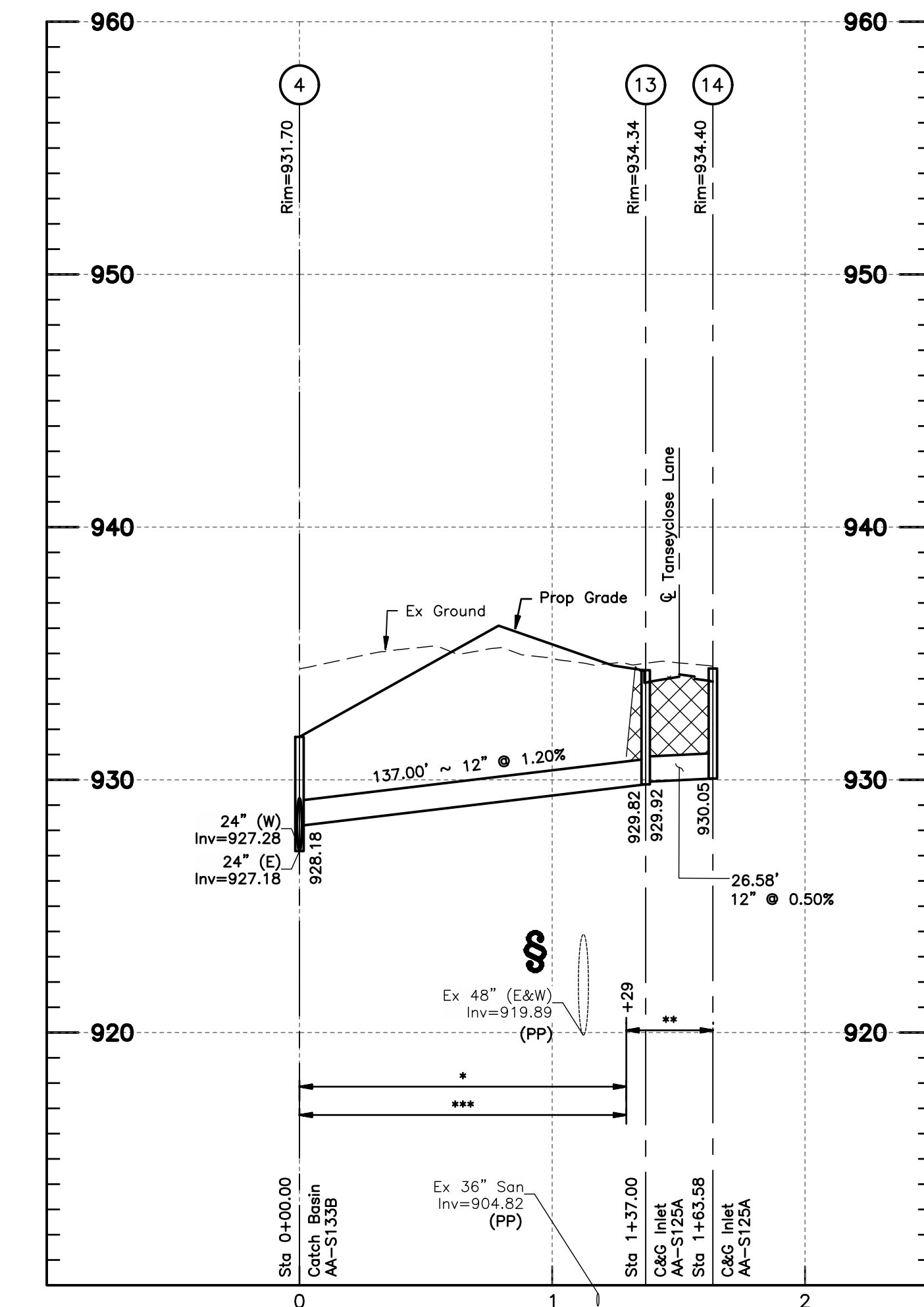
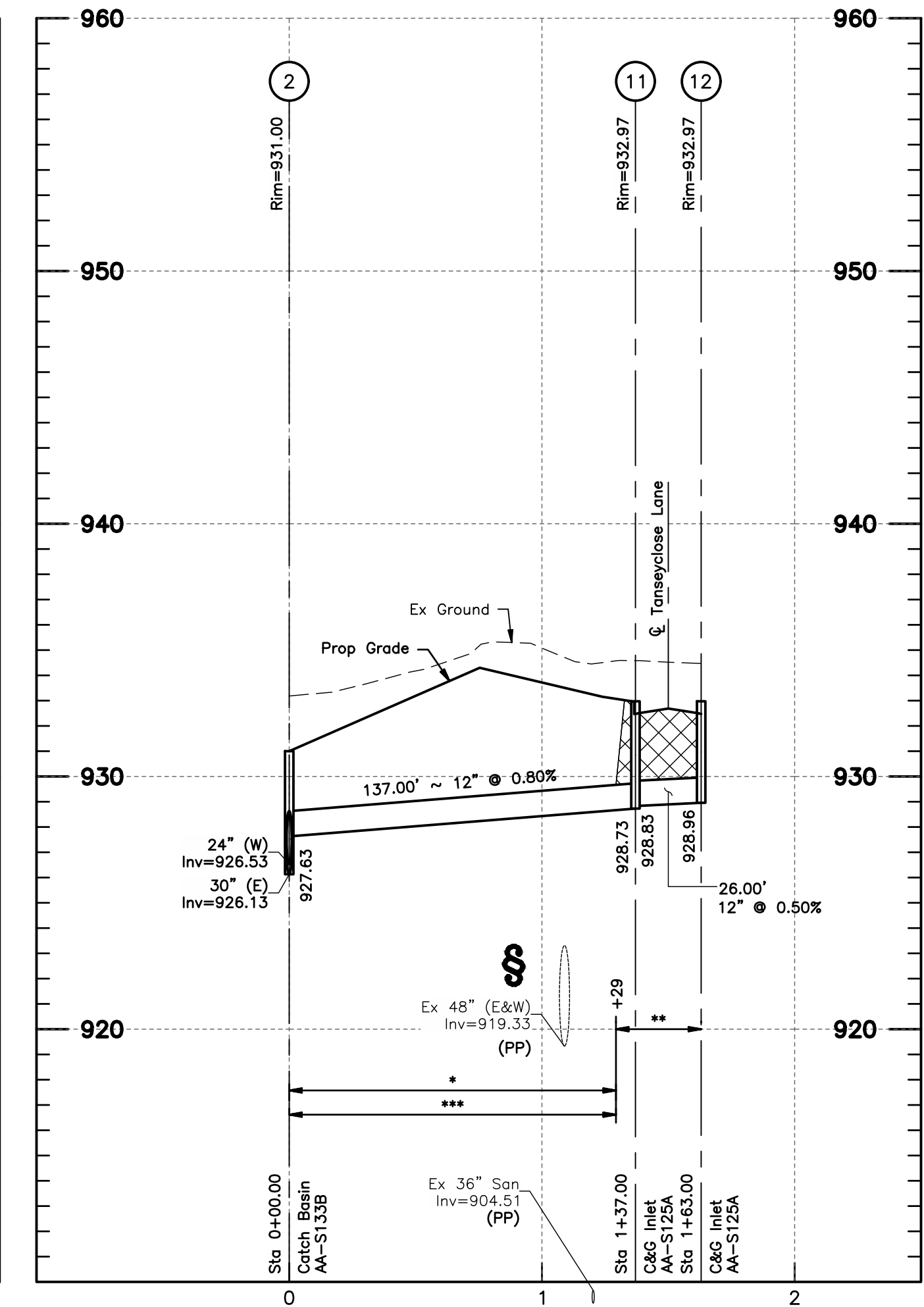
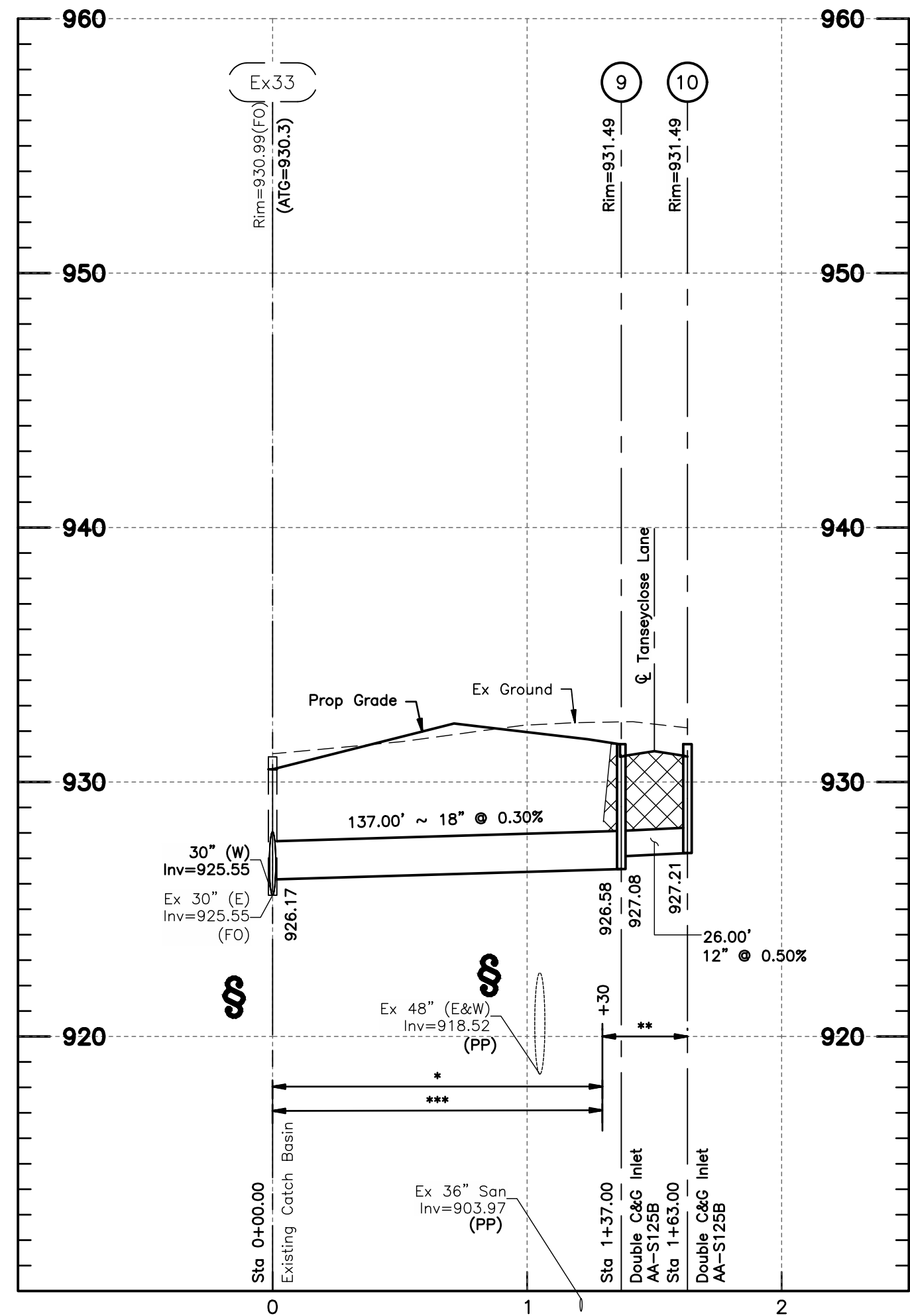
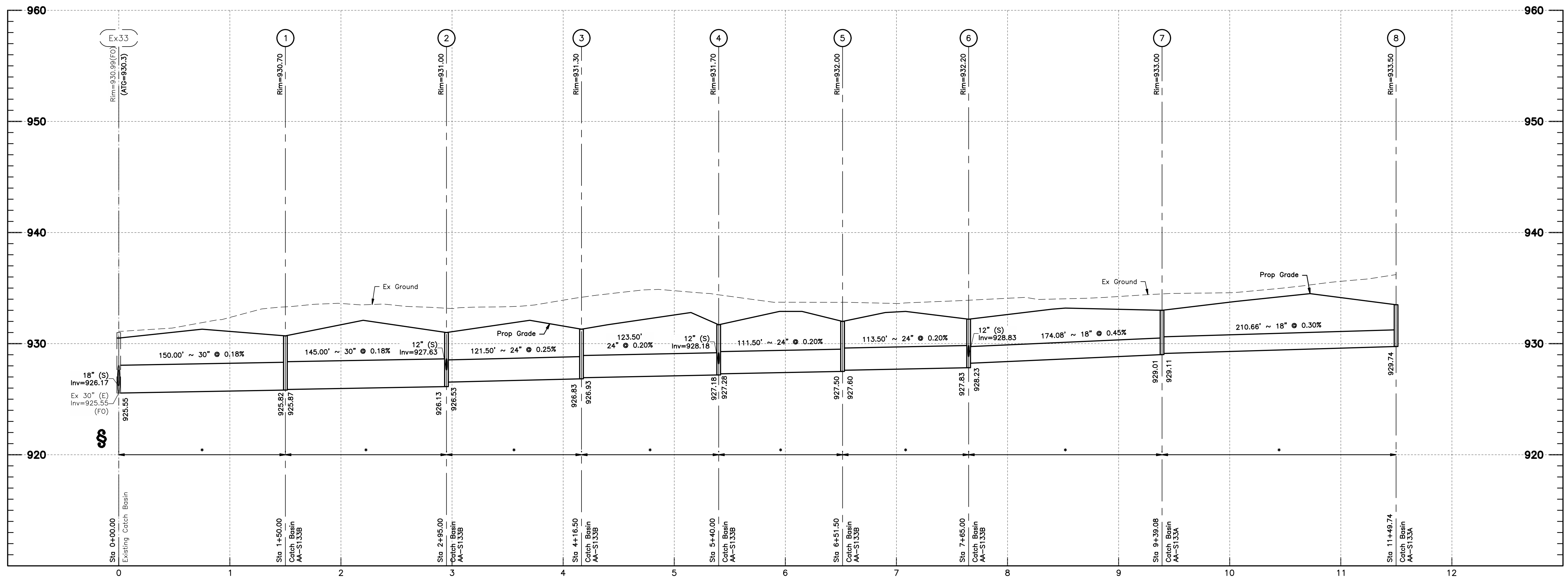
**EMHT**  
EMHT Engineering & Construction, Inc.  
Engineers • Surveyors • Planners • Scientists  
500 New Albany Road, Columbus, OH 43254  
Phone: 614.757.5500 Fax: 614.757.5505  
emht.com

DATE  
DECEMBER 20, 2022

SCALE  
Horiz: 1" = 50'  
Vert: 1" = 5'

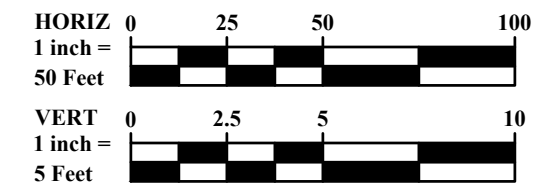
JOB NO.  
2020-1174

SHEET  
8/13



**NOTES:**

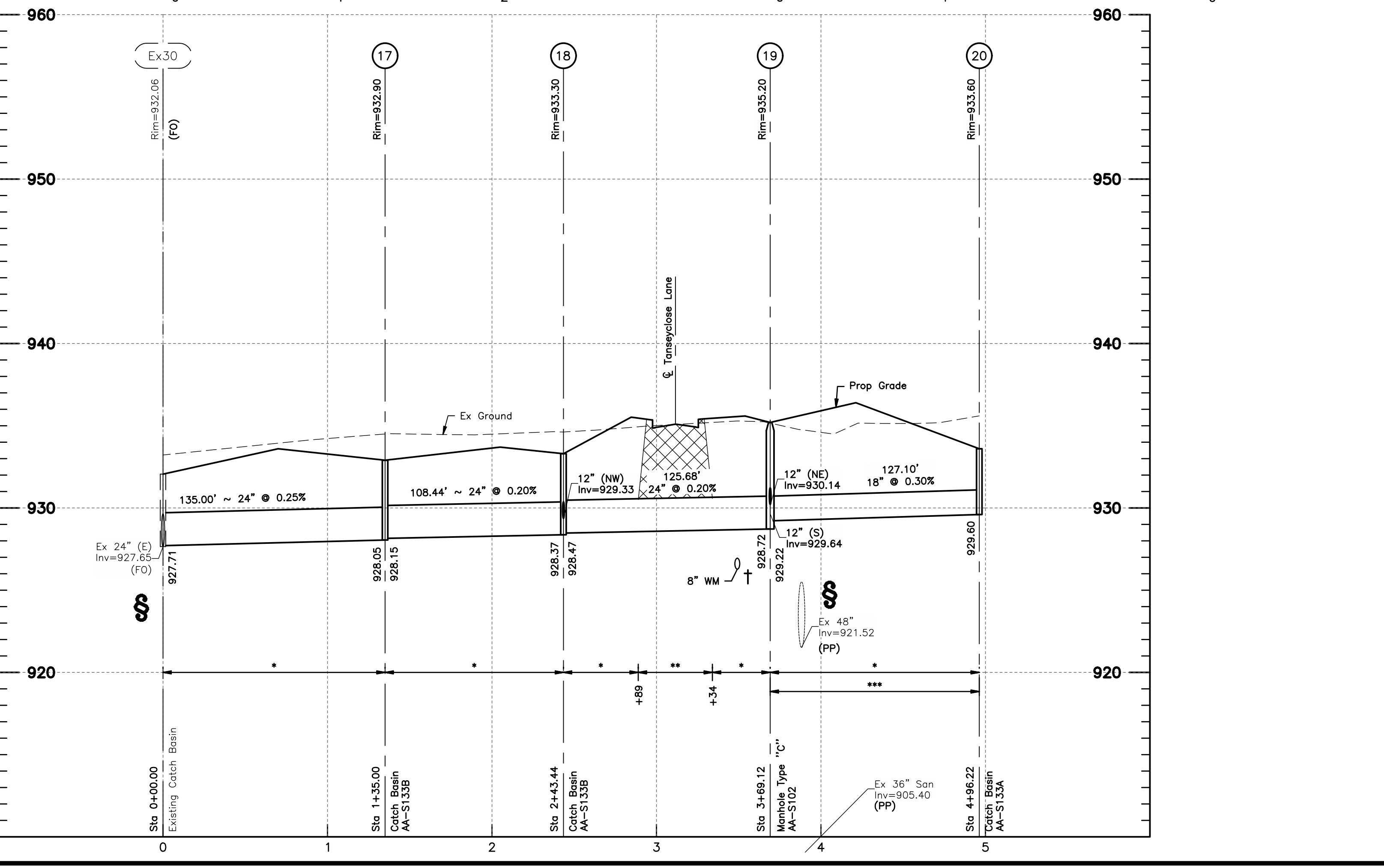
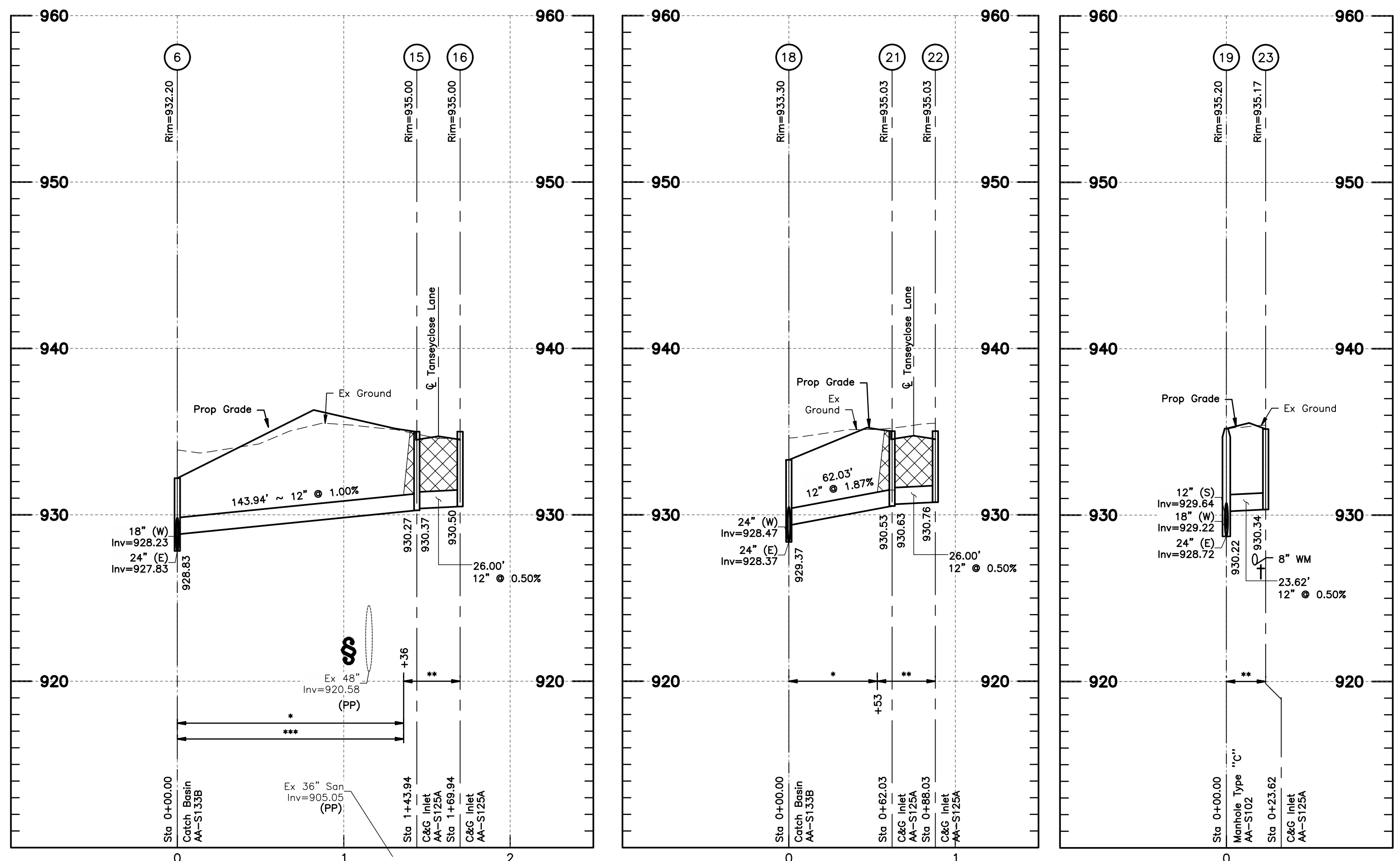
- † Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation out to out between any sanitary or storm sewer piping and structures and all proposed water mains.
- (FO) Field Observed
- (PP) Per Plan
- ATG Adjust to Grade
- § Contractor must verify invert and location of existing utility before construction. If there is a discrepancy between the contractors information and the plan information shown, the contractor is to contact the engineer of record prior to starting construction.
- \* Compacted Backfill, Item 911.
- \*\* Compacted Granular Material Per Item 912 (Type 1 only). All Limits of Compacted Granular Denoted thus:
- \*\*\* For all storm sewer pipe along the side yard of a lot, contractor shall use reinforced concrete pipe (ASTM C-76) with "O" ring rubber gasket joints (ASTM C-136) with no aggregate backfill or HP stormpipe with gasketed integral bell and spigot joint (ASTM F2881) with standard bedding and backfill.
- See Storm Sewer Tables, Sheet 9.
- Taps into existing sewer systems are to be cone drilled and inspected by the City of Dublin.
- All Manholes to have lid per City of Dublin Standard Drawing ST-03.
- All curb and gutter inlets to have tops per City of Dublin Standard Drawing ST-04.



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**NOTES:**

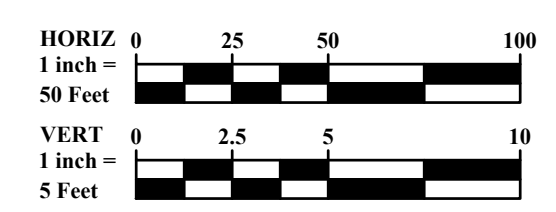
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- § Contractor must verify invert and location of existing utility before construction. If there is a discrepancy between the contractors information and the plan information shown, the contractor is to contact the engineer of record prior to starting construction.
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Taps into existing sewer systems are to be cone drilled and inspected by the City of Dublin

All Manholes to have lid per City of Dublin Standard Drawing ST-03.

All curb and gutter inlets to have tops per City of Dublin Standard Drawing ST-04.

See Storm Sewer Tables, this Sheet.



STRUCTURE COORDINATES				
STRUCTURE #	NORTHING - PLAN	EASTING - PLAN	NORTHING - AS BUILT	EASTING - AS BUILT
1	754330.9631	1782374.1882		
2	754316.4643	1782229.9149		
3	754304.3153	1782109.0238		
4	754291.9664	1781986.1428		
5	754280.8173	1781875.2016		
6	754269.4683	1781762.2703		
7	754252.0615	1781589.0599		
8	754119.9283	1781424.9912		
9	754209.6485	1782537.1359		
10	754183.7788	1782539.7357		
11	754180.1509	1782243.6137		
12	754154.2812	1782246.2135		
13	754155.6530	1781999.8416		
14	754129.2334	1781996.9689		
15	754126.2473	1781776.6654		
16	754101.6553	1781785.0976		
17	753966.9968	1781802.7177		
18	753956.1534	1781694.8176		
19	753968.7125	1781569.7684		
20	753956.0037	1781443.3069		
21	754011.2616	1781666.3405		
22	754025.9389	1781644.8794		
23	753984.1532	1781587.6407		

EXISTING STRUCTURE COORDINATES				
STRUCTURE #	NORTHING - PLAN	EASTING - PLAN	NORTHING - AS BUILT	EASTING - AS BUILT
Ex30			753980.4957	1781937.0411
Ex33			754345.9618	1782523.4365

NOTE: The coordinates shown for the existing structures are from engineering plan information. As-built locations of existing structures may differ slightly and may change the bearing and distance of the sewer line. Please contact the Engineer of record if there are major discrepancies between plan and as-built locations.

STORM SEWER TABLE			
LINE	BEARING	LENGTH	SIZE
1-2	S84°15'41"W	145.00'	30"
2-3	S84°15'41"W	121.50'	24"
2-11	S05°44'19"E	137.00'	12"
3-4	S84°15'41"W	123.50'	24"
4-5	S84°15'41"W	111.50'	24"
4-13	S05°44'19"E	137.00'	12"
5-6	S84°15'41"W	113.50'	24"
6-7	S84°15'41"W	174.08'	18"
6-15	S05°44'22"E	143.94'	12"
7-8	S51°09'13"W	210.66'	18"
9-10	S05°44'19"E	26.00'	12"
11-12	S05°44'19"E	26.00'	12"
13-14	S06°12'20"W	26.58'	12"
15-16	S18°55'34"E	26.00'	12"
17-18	S84°15'41"W	108.44'	24"
18-19	N84°15'53"W	125.68'	24"
18-21	N27°19'40"W	62.03'	12"
19-20	S84°15'41"W	127.10'	18"
19-23	N49°10'28"E	23.62'	12"
21-22	N55°37'54"W	26.00'	12"
Ex30-17	S84°15'41"W	135.00'	24"
Ex33-1	S84°15'41"W	150.00'	30"
Ex33-9	S05°44'20"E	137.00'	18"

PRELIMINARY  
 NOT TO BE USED FOR CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK	DATE	DESCRIPTION

**EMHT**  
 ENGINEERS, ARCHITECTS, SURVEYORS & PLANNERS • SCIENTISTS  
 5000 New Albany Road, Columbus, OH 43264  
 Phone: 614.775.5500 Fax: 614.775.5505 emht.com

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
 SECTION 2  
 STORM SEWER PROFILES

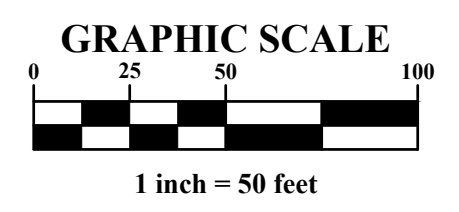
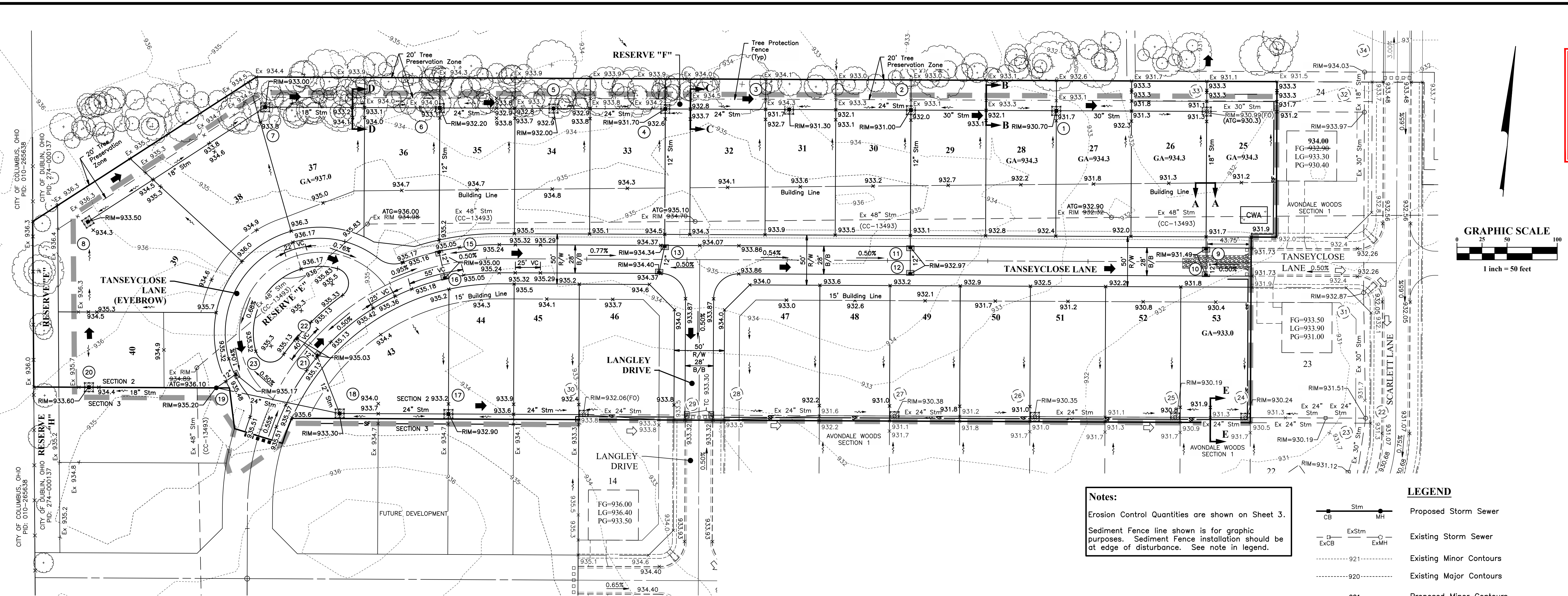
DATE	DECEMBER 20, 2022
SCALE	Horiz: 1" = 50' Vert: 1" = 5'
JOB NO.	2020-1174
SHEET	9/13



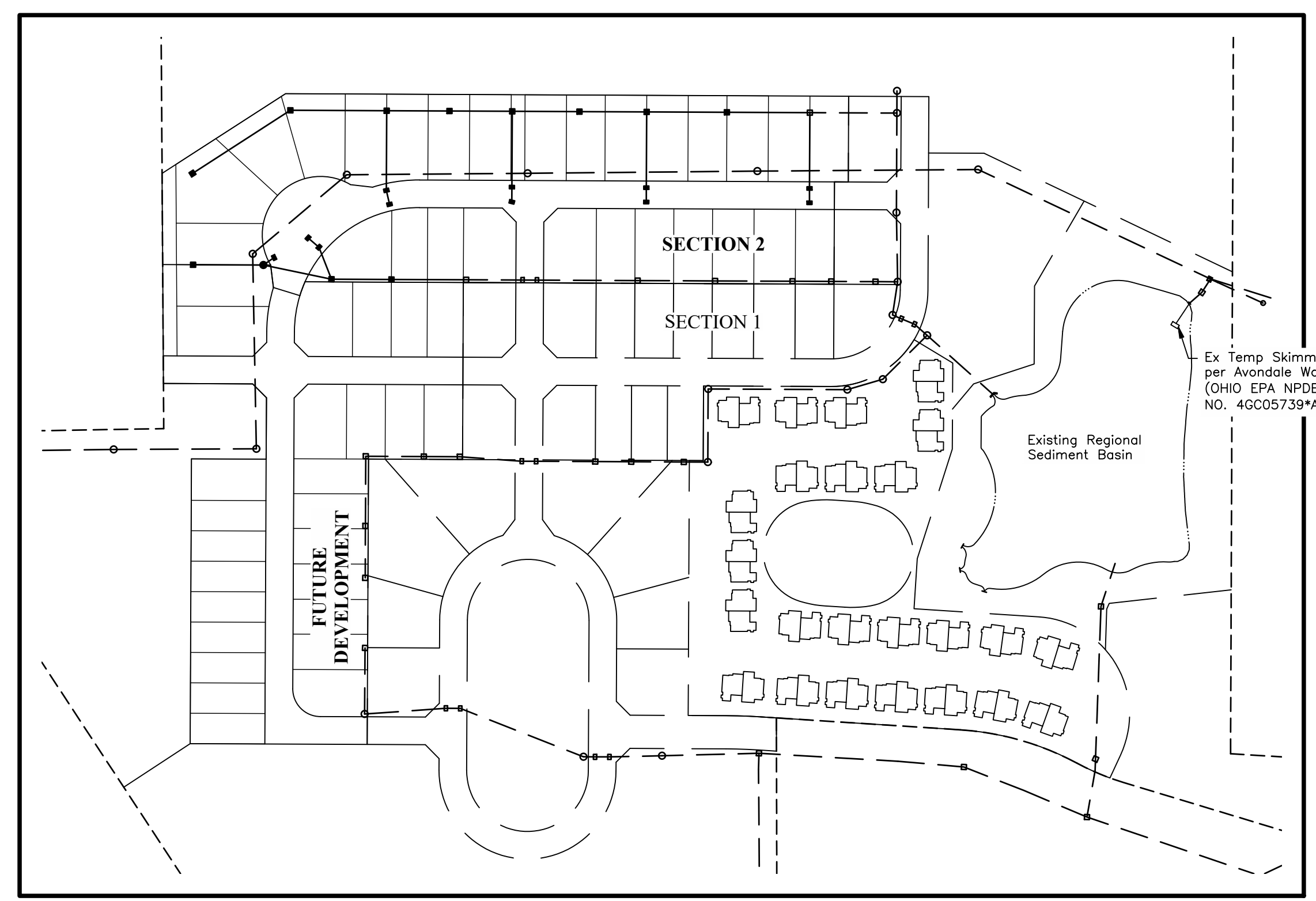




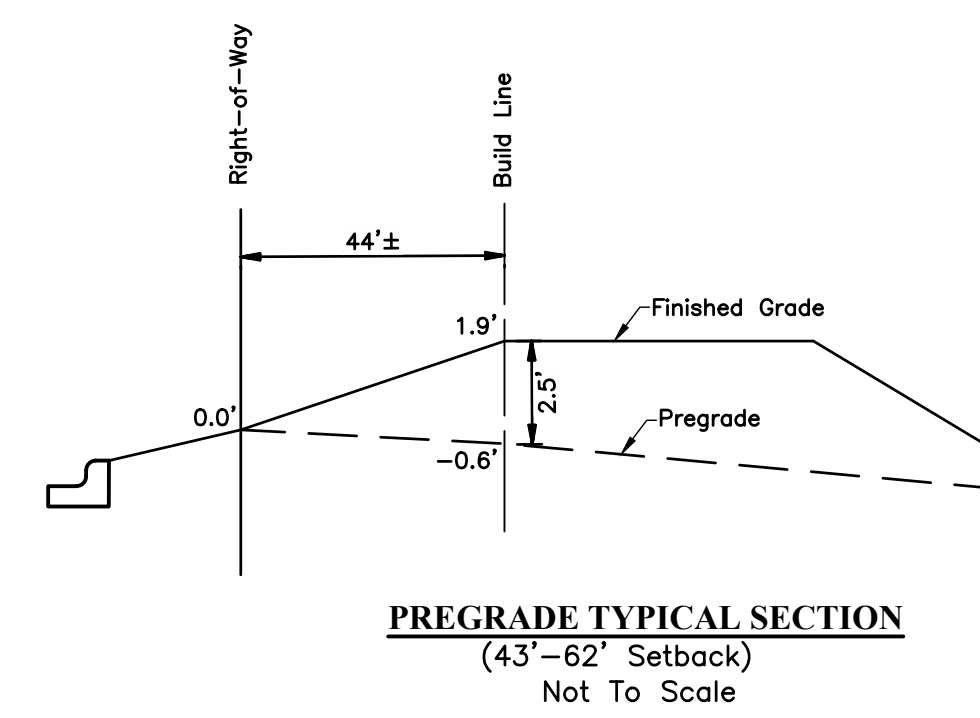
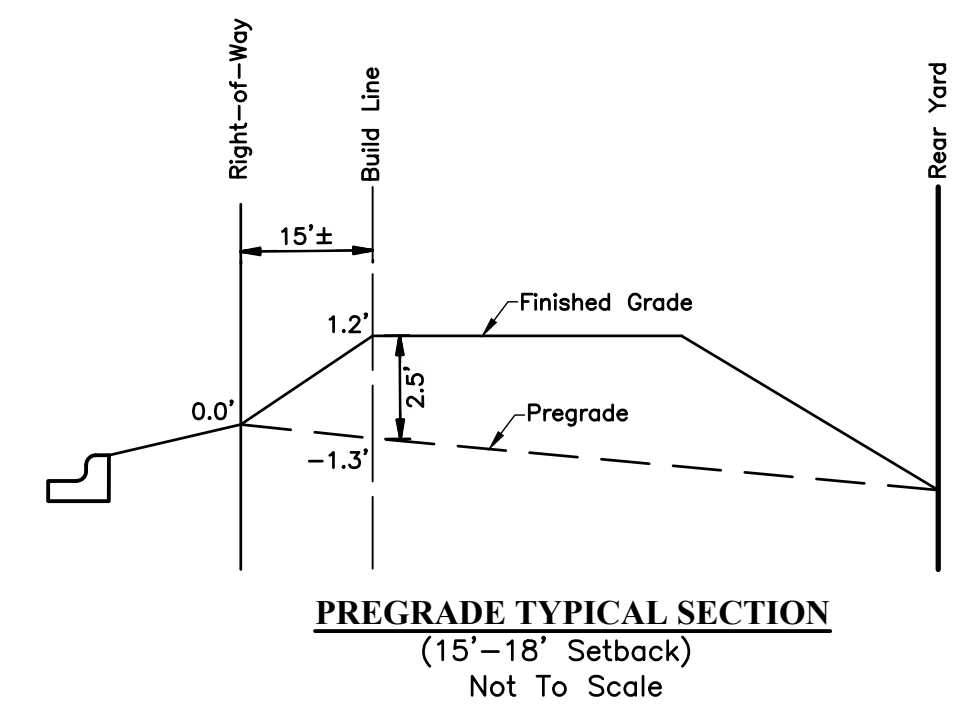
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 9. Inset: 20201174-ROAD-11.dwg, Last Saved By: jms, 12/01/2022 9:50 AM, Last Printed By: Stewart, Kuhn, 12/01/2022 7:44 AM, Avon, OH



**Notes:**  
 Erosion Control Quantities are shown on Sheet 3.  
 Sediment Fence line shown is for graphic purposes. Sediment Fence installation should be at edge of disturbance. See note in legend.



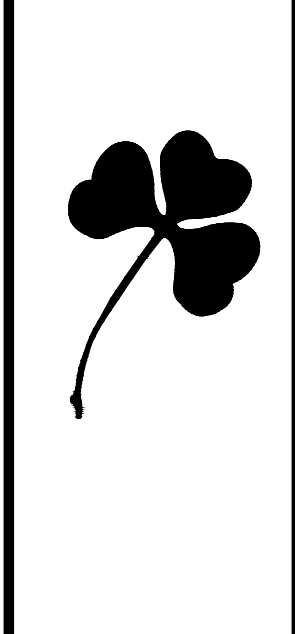
**LOCATION MAP**  
Not to Scale



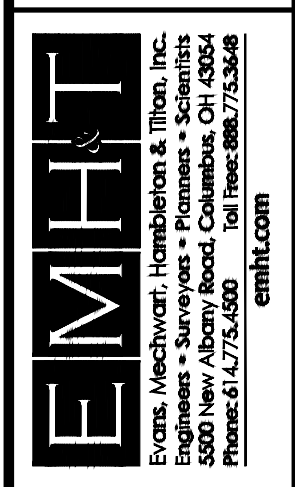
- LEGEND**
- Stm MH Proposed Storm Sewer
  - ExStm ExMH Existing Storm Sewer
  - 921 Existing Minor Contours
  - 920 Existing Major Contours
  - 901 Proposed Minor Contours
  - 905 Proposed Major Contours
  - Flow Arrow
  - Flood Routing Arrow
  - Existing Flood Routing Arrow
  - Limits of Disturbance
  - Tree Protection Fence
  - ATG Adjust to Grade
  - (TBR) To Be Removed
  - (DND) Do not disturb
  - Stabilized Construction Entrance (See Detail Sheet 12)
  - CWA Concrete Washout Area (See Detail Sheet 12)
  - Dandy Curb Bag Inlet Protection (See Detail, Sheet 12)
  - Filter Fabric Inlet Protection (See Detail, Sheet 12)
  - Existing Wetland to be impacted per Wetland & Ephemeral Stream permit OEPA ID No. XXXXXXX

PRELIMINARY  
 NOT TO BE USED FOR  
 CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS SECTION 2**  
 EROSION CONTROL PLAN



DATE  
DECEMBER 20, 2022

SCALE  
1" = 50'

JOB NO.  
2020-1174

SHEET  
11/13



**SITE DATA**

**OWNER/DEVELOPER**  
 HOMEWOOD CORPORATION  
 Tom Tolbert  
 2700 E. Dublin-Granville Road  
 Suite 300  
 Columbus, Ohio 43231  
 Phone: (614) 898-7200  
 Fax: (614) 451-1197

**PLAN DESIGNER:**  
 EMH&T, Inc.  
 5500 New Albany Road  
 Columbus, Ohio 43054  
 Phone: 614-775-4500  
 Fax: 614-775-4800

**DEVELOPMENT TYPE:** Single Family

**SITE ACREAGE:** 9.09 Acres

**DISTURBED ACREAGE:** 8.60 Acres

**OHIO EPA NPDES PERMIT NO.** 4GC05739\*AG

**EXISTING SITE AREA:** The existing site consists of farm land.

**ADJACENT AREAS:** The site is bordered by farmland to the north, future development to the south, to the east by Avondale Woods Section 1, and future development to the west.

**STORM WATER**  
 Site stormwater drains via storm sewer to existing Detention Basin constructed with Section 1.

**STORM WATER QUALITY:**  
 Existing Retention Basin constructed with Section 1.

**SEQUENCE OF CONSTRUCTION**

1. Ensure that a copy of the NOI, Ohio EPA approval letter, and the SWPPP are available on-site during working hours.
2. Establish the construction exit, concrete washout area, temporary staging and parking area.
3. Install perimeter sediment fence and tree protection fence as indicated on the erosion and sediment control plan.
4. Inspect the existing regional basin outlet structure and confirm the existing skimmer is installed.
5. Install utilities and storm sewer inlet protection.
6. Commence with construction of the single family homes and install individual lot sediment controls.
7. Disturbed areas shall be stabilized according to temporary and permanent seeding requirements.
8. Temporary sediment controls shall be removed upon permanent stabilization of the site. Remove temporary skimmer from the existing basin outlet structure, permanently block hole at catch basin, and unblock 6.0" orifice on riser pipe.

**TEMPORARY AND PERMANENT SEEDING**

The limits of seeding and mulching are as shown within the plan as indicated by the limits of disturbance. All areas not designated to be seeded shall remain under natural ground cover. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense.

**TEMPORARY SEEDING**

Any area which will be left dormant (undisturbed) for more than 14 days shall be seeded within 7 days of terminated work. Disturbed areas within 50 feet of a stream, first order or larger, shall be stabilized within 2 days of inactivity. Temporary seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary.

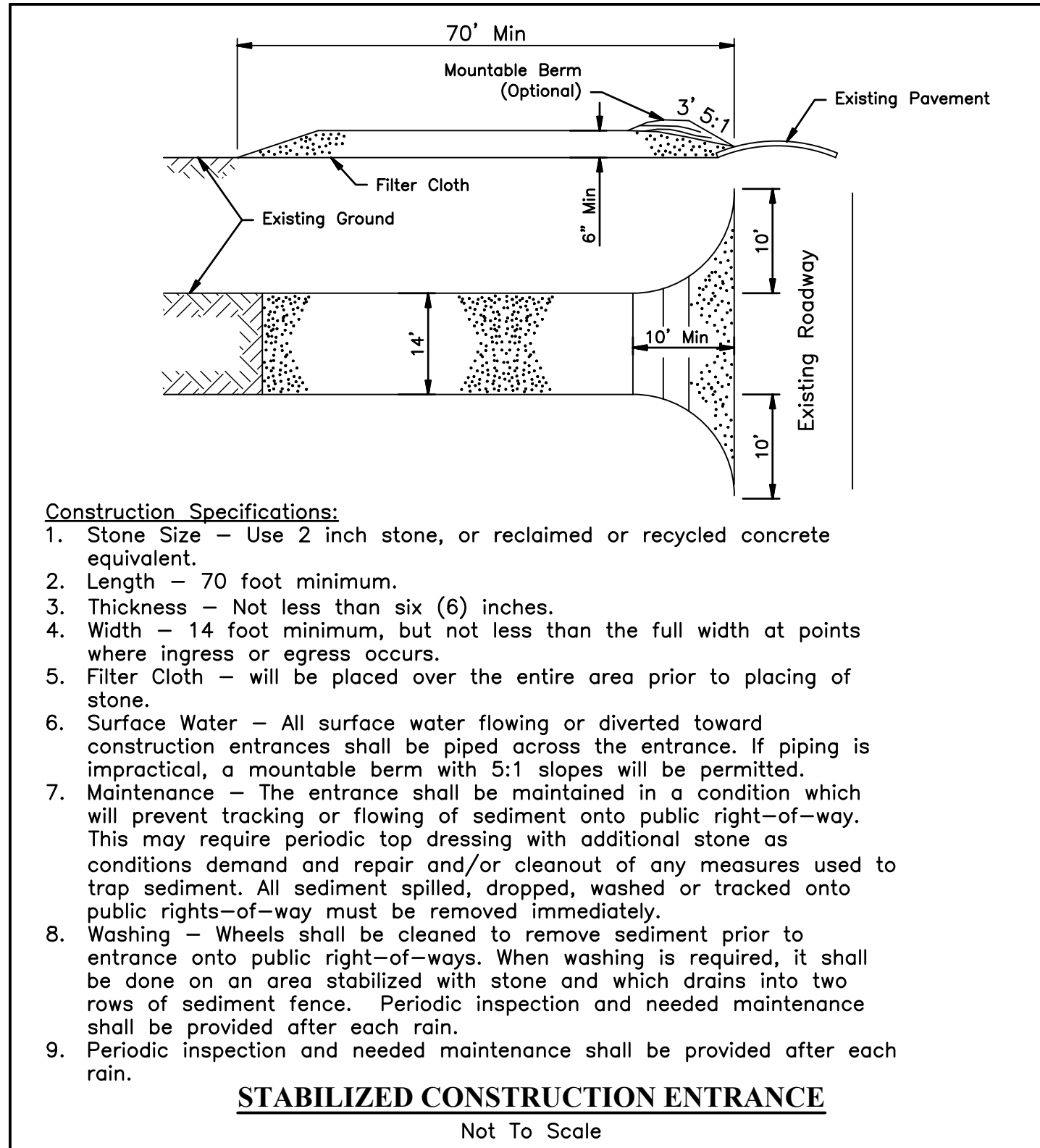
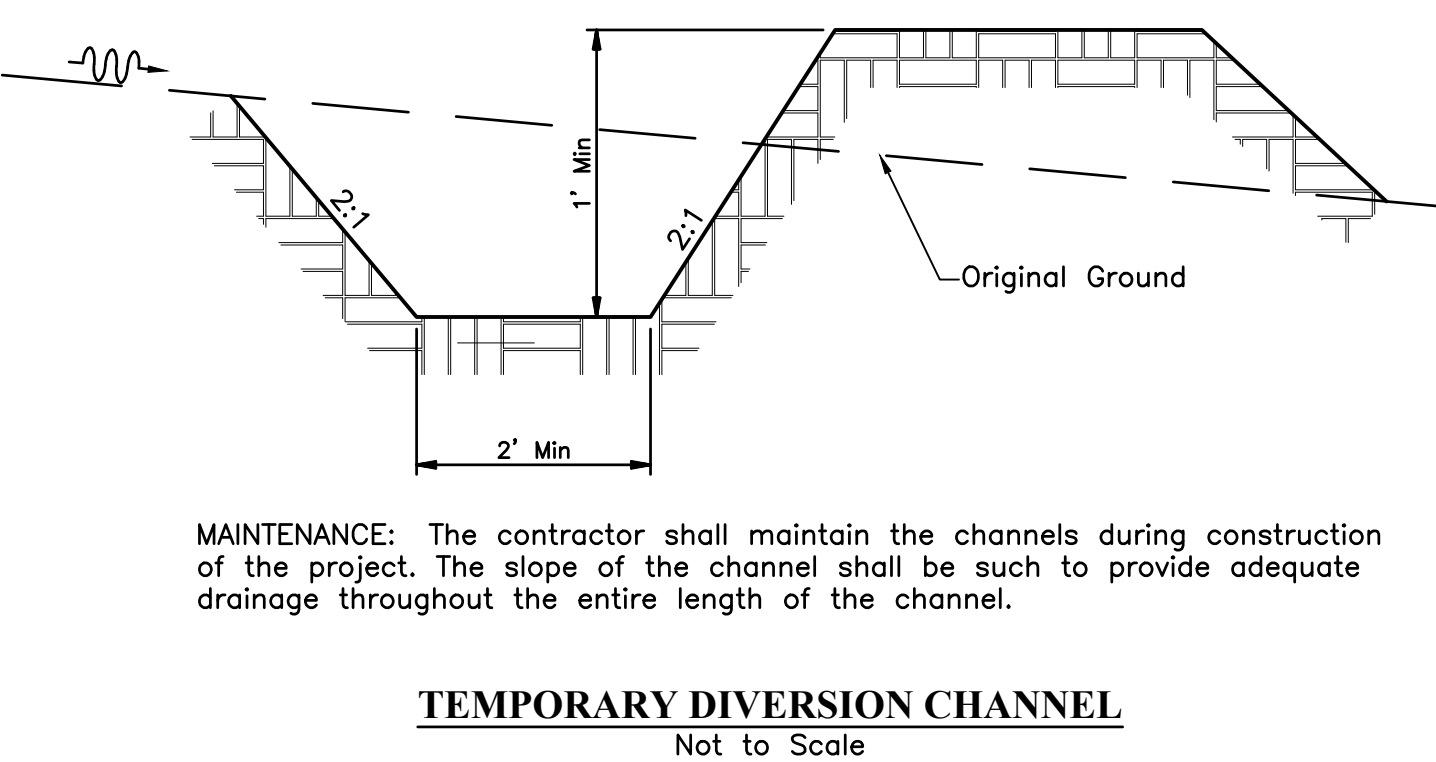
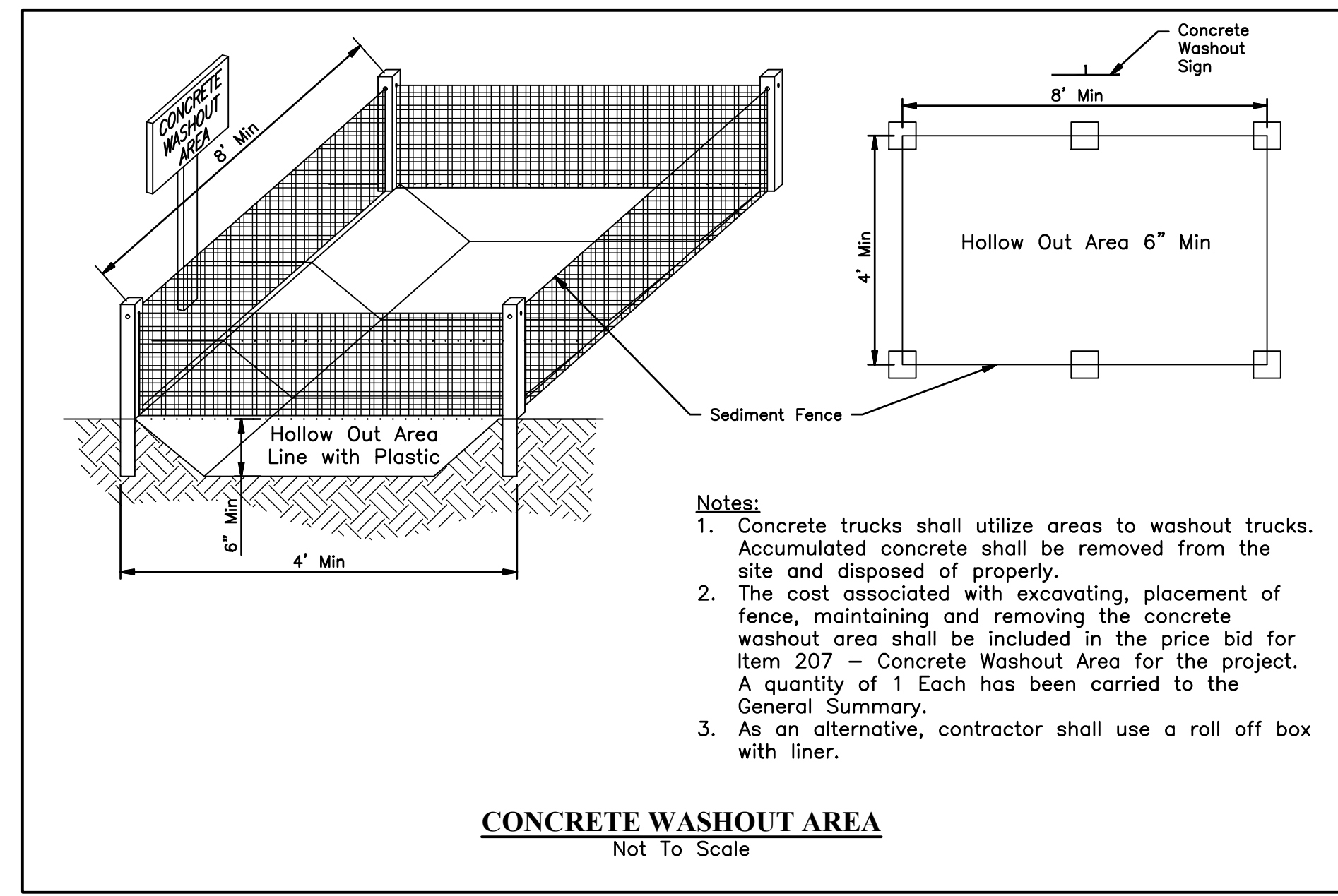
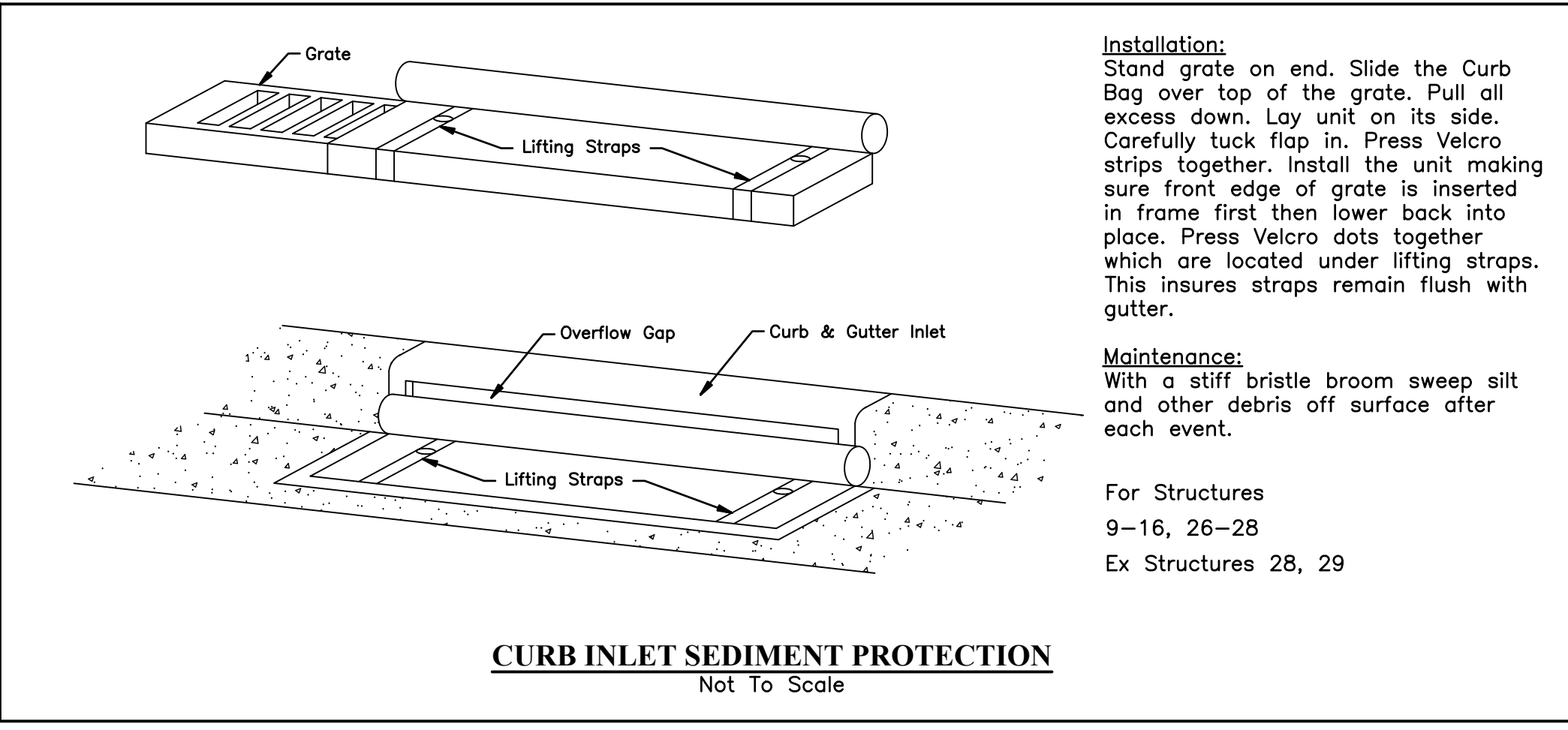
Fertilizer 12-12-12	25 lb/1000 sq. ft.
Straw Mulch	2 tons/acre
Water	300 G/1000 sq. ft.

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	lb./1000 sq. ft.	Per acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
August 16 to November 1	Annual Ryegrass	1	40 lb.
	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
Nov. 1 to Spring Seeding	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.
Nov. 1 to Spring Seeding		Use mulch only, sodding practices or dormant seeding	

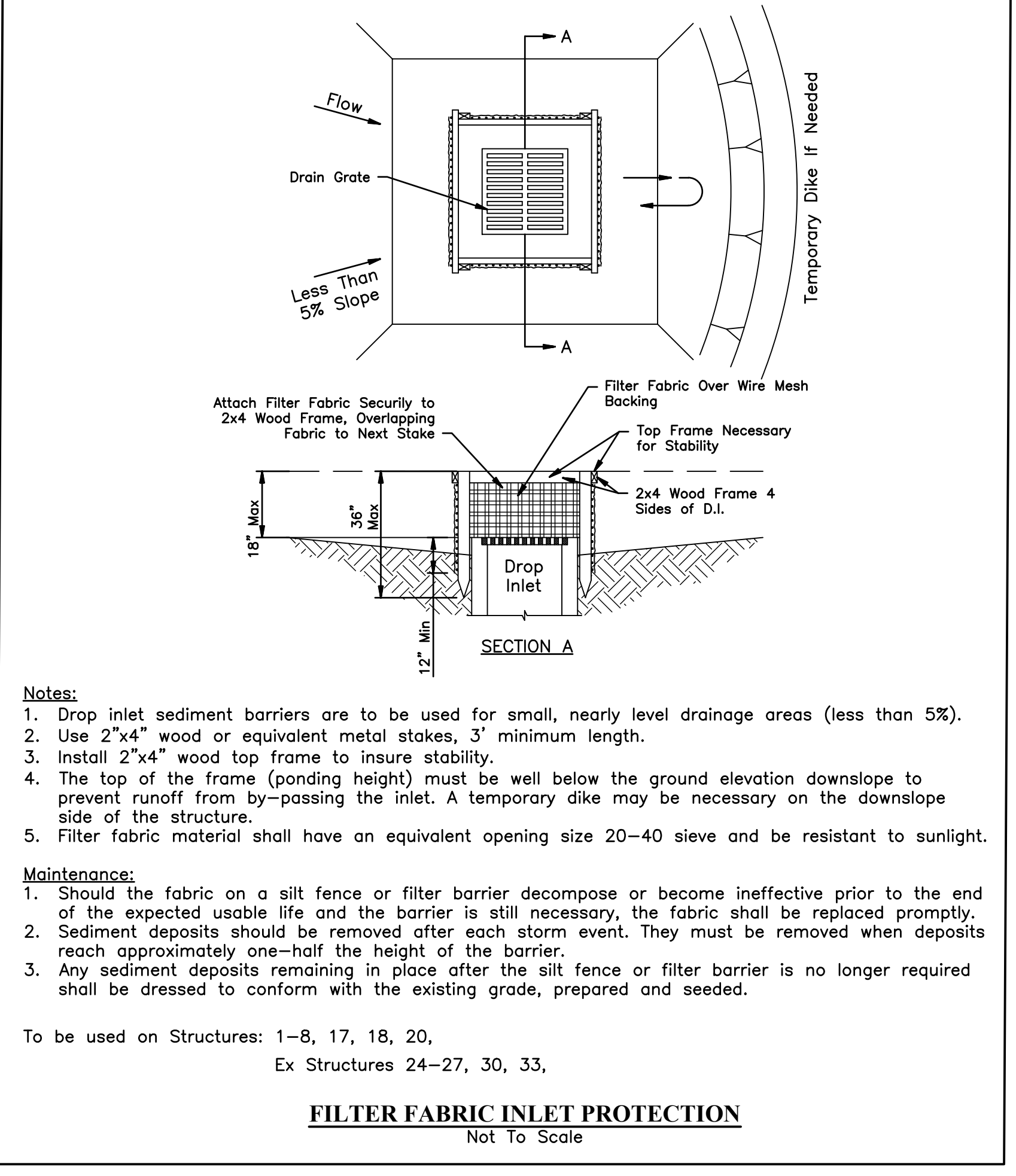
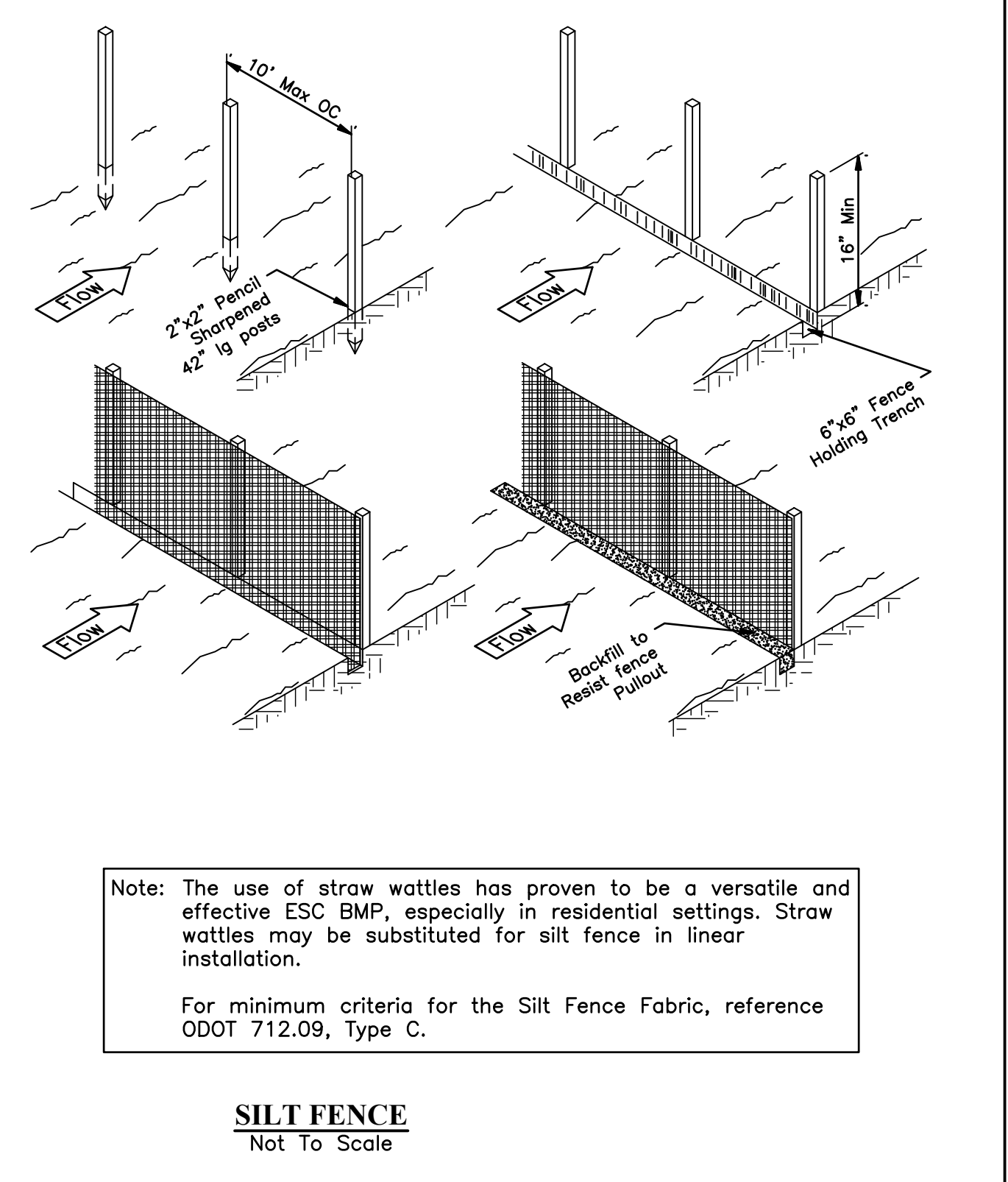
**PERMANENT SEEDING**

Any area that is at final grade shall be seeded within 7 days of terminated work. Permanent seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary. Ideal conditions for permanent seeding are from March 1-May 31 and August 1-October 15.

PERMANENT SEEDING		
SEED MIX	SEEDING RATE lb/1000 sq.ft.	NOTES
GENERAL USE		
Creeping Red Fescue	1.6	
Kentucky Bluegrass	1.6	
Annual Ryegrass	0.8	



- Material Properties:**
1. The height of a silt fence shall not exceed 36-inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
  2. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
  3. Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 16-inches). Wood posts will be a minimum of 42" long.
  4. A trench shall be excavated approximately 6-inches wide and 6 inches deep along the line of posts and upslope from the barrier.
  5. The standard strength filter fabric shall be stapled or wired to the fence, and 8-inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36-inches above the original ground surface.
  6. Filter fabric shall not be stapled to existing trees.
  7. The trench shall be backfilled and soil compacted over the filter fabric.
  8. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
  9. Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
  10. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
- Maintenance:**
1. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.
  2. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.
  3. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



PUBLIC UTILITY  
 NOT TO BE USED FOR CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK DATE DESCRIPTION

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
 SECTION 2  
 EROSION CONTROL NOTES & DETAILS

**EMH&T**  
 EMH&T, Inc.  
 5500 New Albany Road  
 Columbus, OH 43054  
 Phone: 614-775-4500  
 Fax: 614-775-4800  
 emht.com

DATE  
 DECEMBER 20, 2022

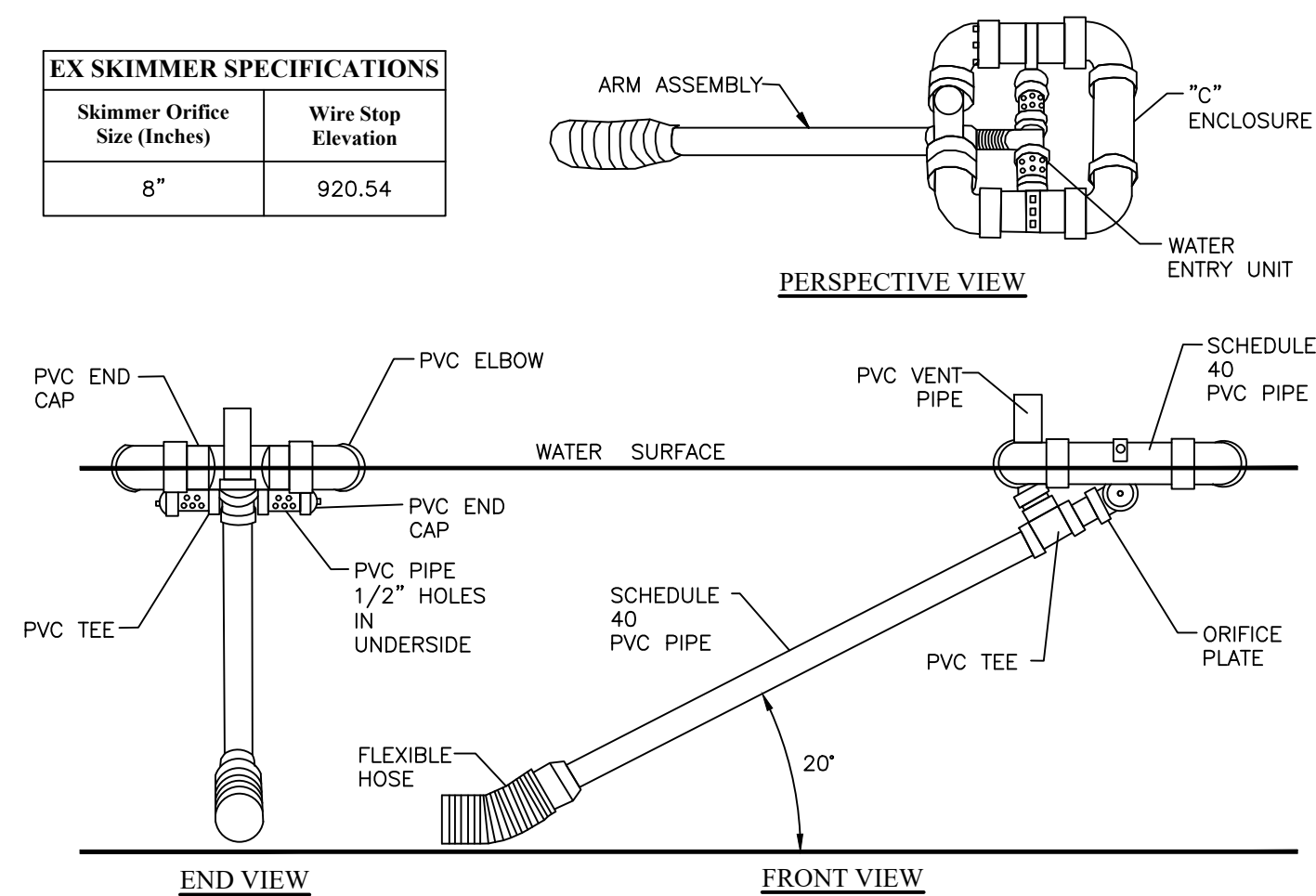
SCALE  
 NONE

JOB NO.  
 2020-1174

SHEET  
 12/13



EX SKIMMER SPECIFICATIONS	
Skimmer Orifice Size (Inches)	Wire Stop Elevation
8"	920.54



**TEMPORARY SKIMMER**  
Not To Scale

**NOTES:**

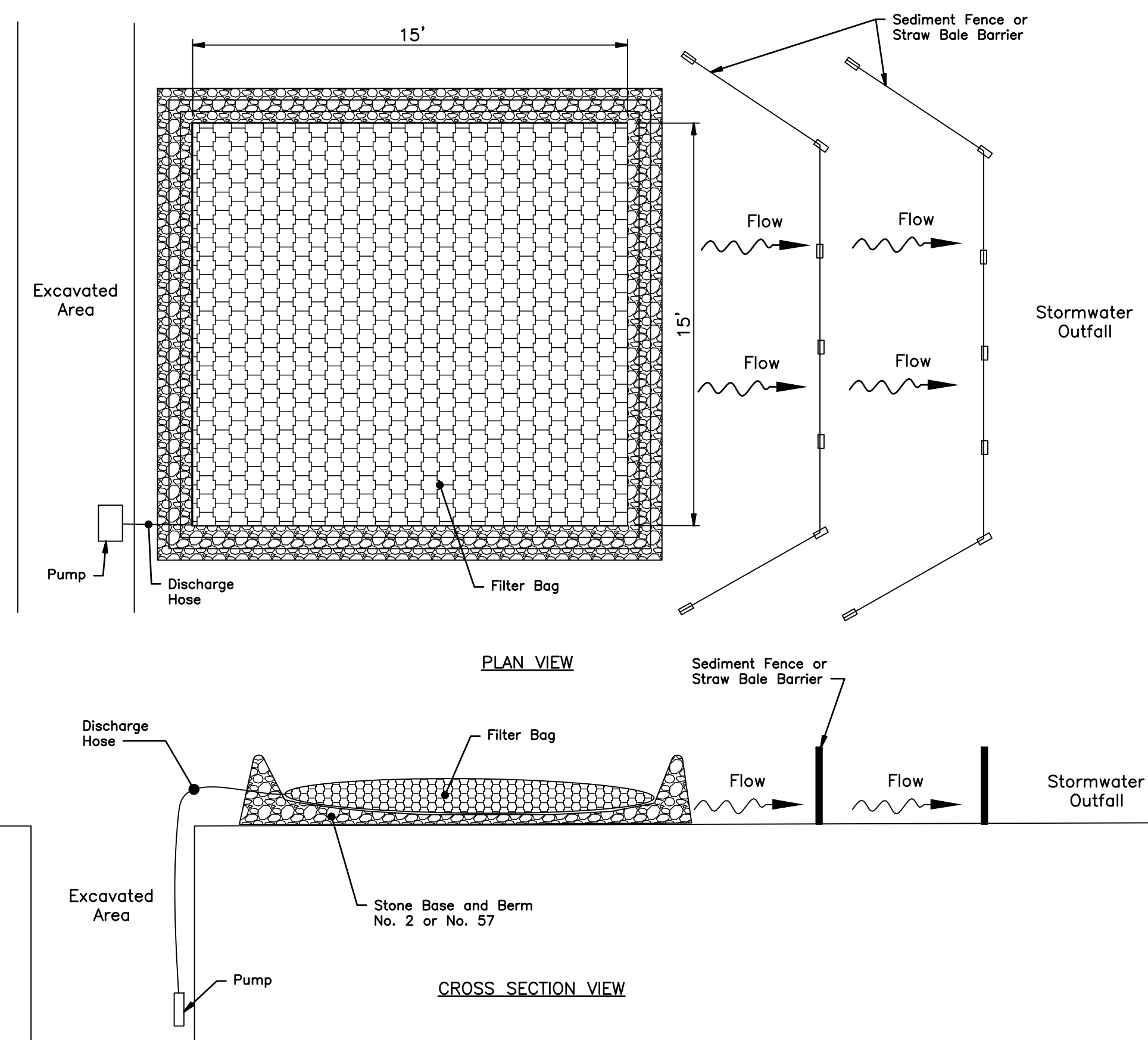
- SEDIMENT CLEANOUT:** Sediment shall be removed and the sediment basin restored to its original dimensions when the sediment has filled to one-half the sediment storage zone. Sediment removed from the basin shall be placed so that it will not erode and stabilized similar to other fill material placed on the site.
- FINAL REMOVAL:** The sediment control structure shall be removed only after the upstream drainage area is stabilized, and upon approval from City of Dublin. Dewatering and removal shall not cause sediment to be discharged. Accumulated sediment within the proposed basin shall be removed upon completion of construction.

EXISTING TEMPORARY SEDIMENT CONTROL BASIN DATA						
BASIN	TRIBUTARY ACREAGE	DISTURBED ACREAGE	REQUIRED BASIN DEWATERING VOLUME (67 CY/AC)	PROVIDED BASIN DEWATERING VOLUME	REQUIRED SEDIMENT STORAGE VOLUME (37 CY DISTURBED AC)	PROVIDED SEDIMENT STORAGE VOLUME
01	140.981 Ac	90.344 Ac	5.85 Ac-Ft	6.28 Ac-Ft	2.07 Ac-Ft	33.15 Ac-Ft

Required Dewatering Volume Drawdown > 48 Hrs.

STORMWATER MANAGEMENT SUMMARY TABLE							
	1-YEAR	2-YEAR	5-YEAR	10-YEAR	25-YEAR	50-YEAR	100-YEAR
Pre-Developed Q	31.92	49.15	76.33	100.22	135.37	165.50	197.87
Post-Developed Q*	120.34	160.63	219.77	269.17	339.07	397.29	458.64
Allowable Release	<9.62	<9.62	<9.62	<9.62	9.62	<24.85	24.85
Actual Release	1.26	1.50	3.01	5.16	8.04	9.53	15.29
Control Measure Depth/Elevation	921.03	921.77	922.74	923.19	923.99	924.72	925.32

\*From the combined hydrograph of Subareas 01-04



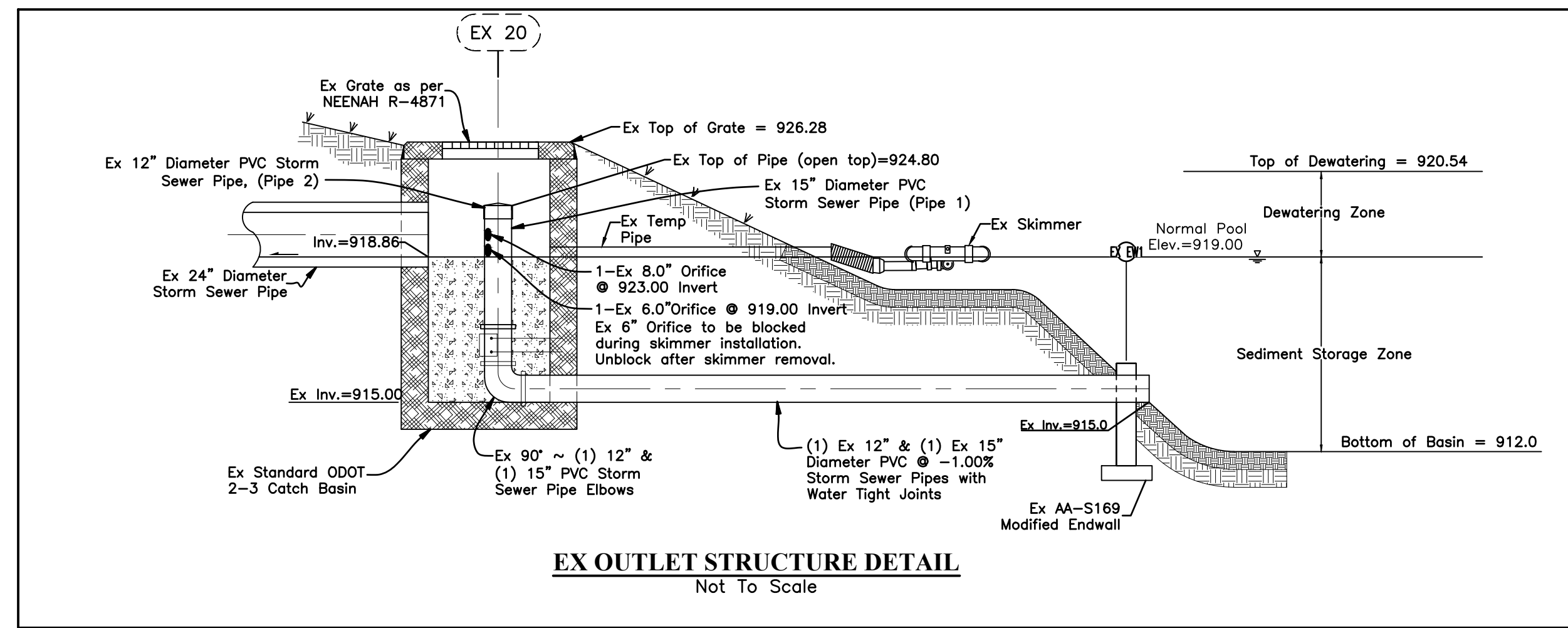
**DEWATERING FILTER BAG**  
Not To Scale

**Installation:**

- The Contractor shall pump muddy water encountered within the excavated areas into a filter fabric bag. The bag shall be placed within a level undisturbed area as far away from the stormwater outfall as possible. The bag shall be placed on top of an aggregate pad. Additionally, a perimeter aggregate berm shall be constructed around the bag. Perimeter controls such as straw bale barriers or sediment fence shall be utilized along the downstream side of the bag. The perimeter controls shall be installed to ensure that the water flowing out of the bag does not flow around the ends of the controls. Upon completion, the bag shall be removed to an area away from the stormwater outfall and opened. The accumulated sediment shall be spread out to allow to dry and stabilized with vegetation. Filterbag shall be JMD Enviro-Protection Filter Bag, size is 15'x15' or approved equal.

**Maintenance:**

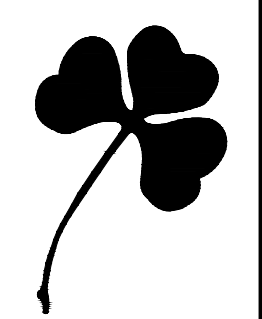
- The filter bag shall be replaced when the bag is half filled with sediment.
- The Contractor shall contact the project Engineer for consultative services if dewatering activities overwhelm the filter bag and perimeter controls.



**EX OUTLET STRUCTURE DETAIL**  
Not To Scale

PRELIMINARY  
 NOT TO BE USED FOR  
 CONSTRUCTION  
 PLAN SET DATE  
 DECEMBER 20, 2022

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
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 SECTION 2  
 EROSION CONTROL NOTES & DETAILS

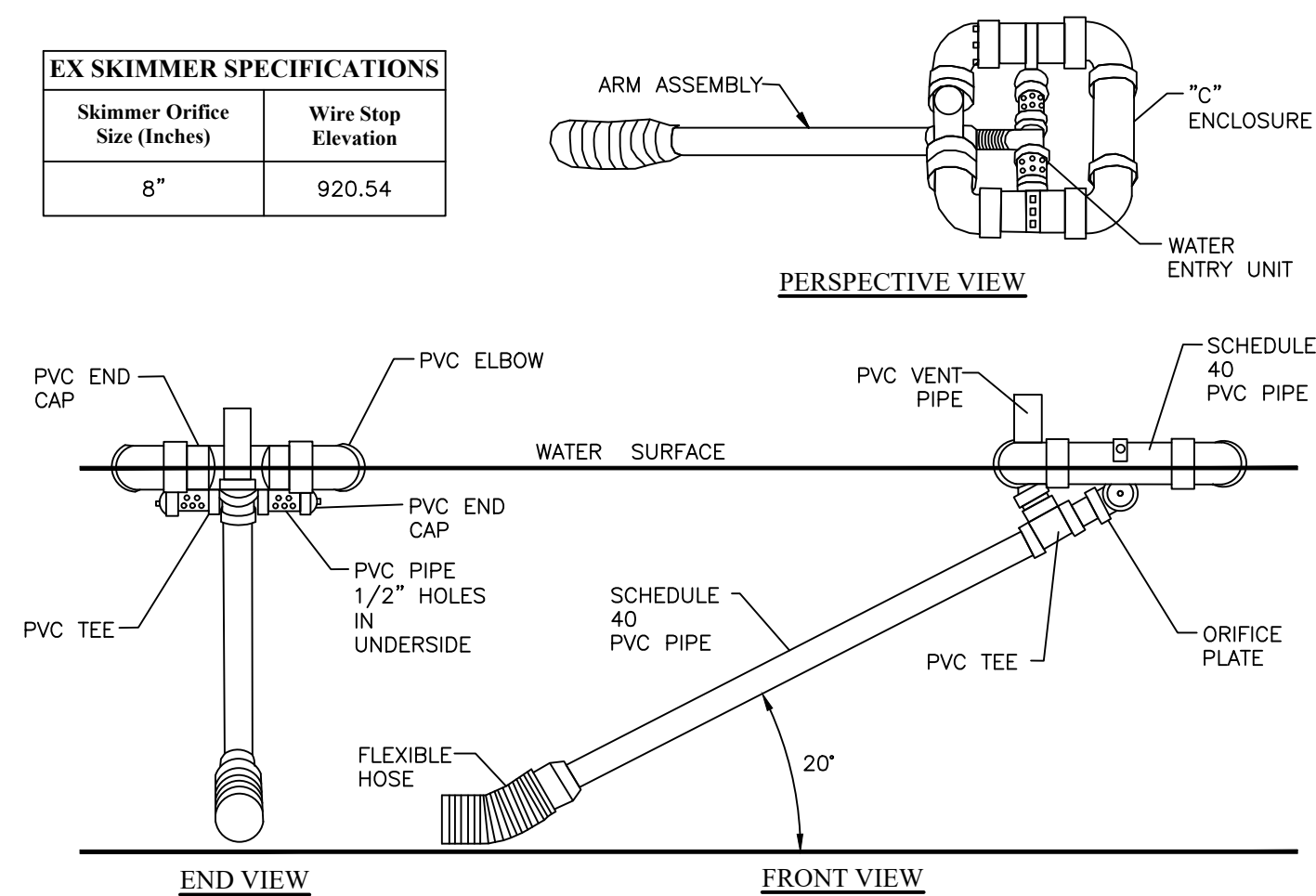
**EMHT**  
 Earth Mechanics Technologies & Training, Inc.  
 Engineers • Surveyors • Planners • Scientists  
 5000 New Albany Road, Columbus, OH 43254  
 Phone: 614.775.5500 Fax: 614.775.5505  
 emht.com

DATE	DECEMBER 20, 2022
SCALE	NONE
JOB NO.	2020-1174
SHEET	13/13

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EX SKIMMER SPECIFICATIONS	
Skimmer Orifice Size (Inches)	Wire Stop Elevation
8"	920.54



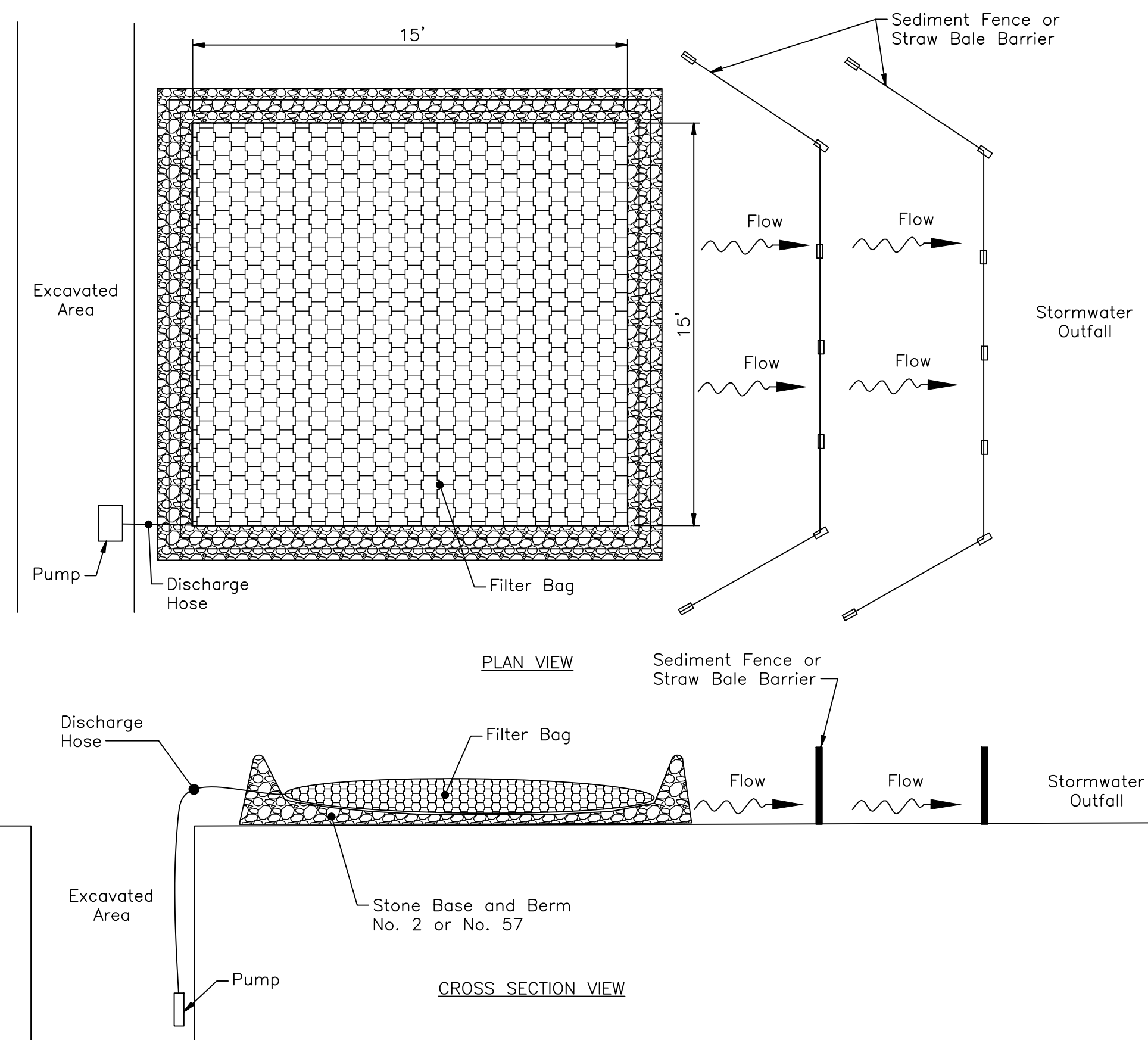
**TEMPORARY SKIMMER**  
Not To Scale

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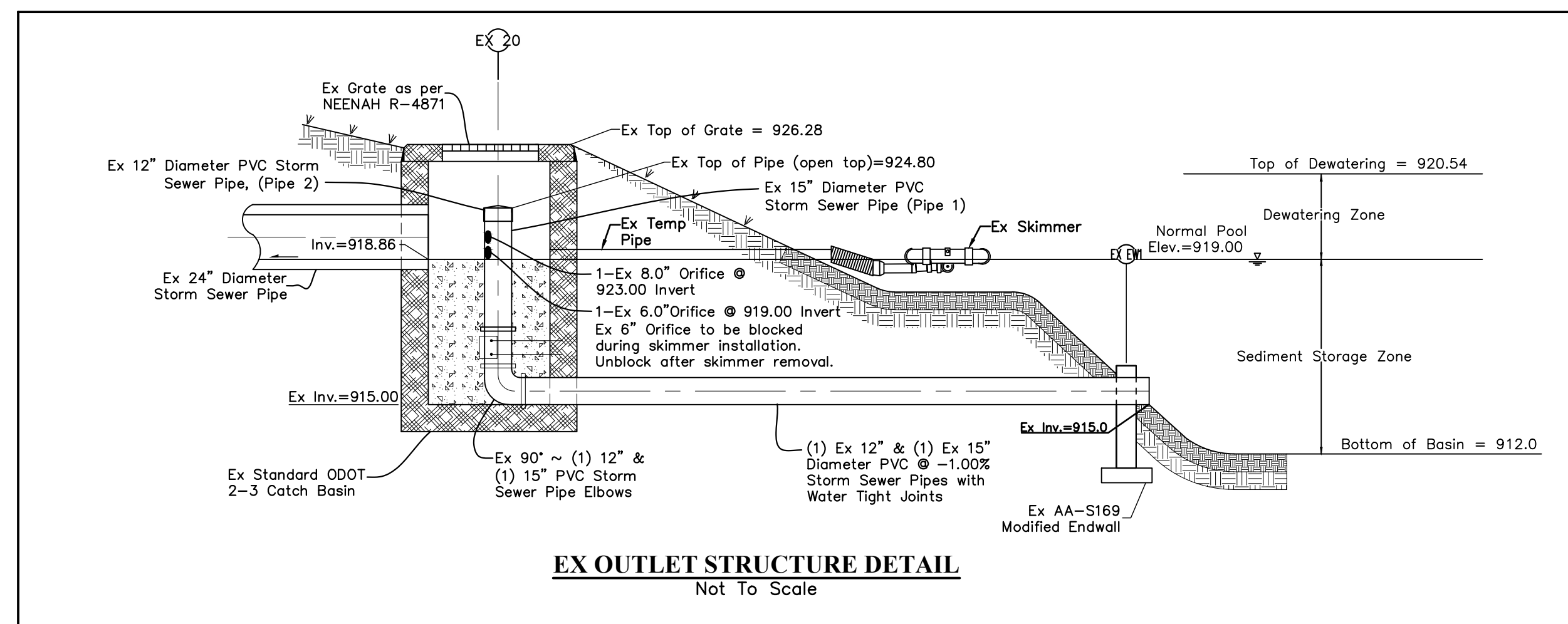
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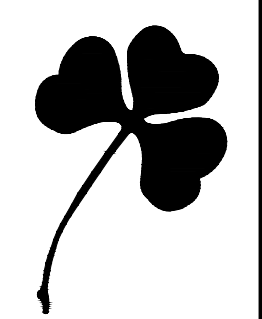
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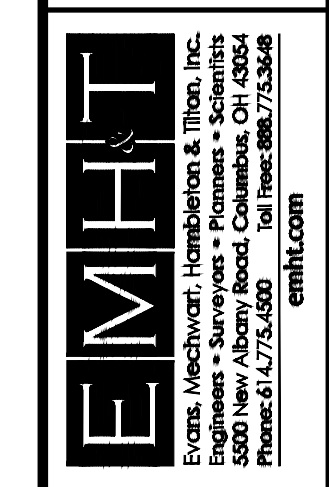
**EX OUTLET STRUCTURE DETAIL**  
Not To Scale

PRELIMINARY  
 NOT TO BE USED FOR  
 CONSTRUCTION  
 PLAN SET DATE  
 NOVEMBER 05, 2021

MARK	DATE	DESCRIPTION



CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
 PUBLIC STREET, STORM, & WATER IMPROVEMENTS  
 FOR  
**AVONDALE WOODS**  
 SECTION 2  
 EROSION CONTROL NOTES & DETAILS



DATE	NOVEMBER 05, 2021
SCALE	NONE
JOB NO.	2020-1174
SHEET	14/14

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