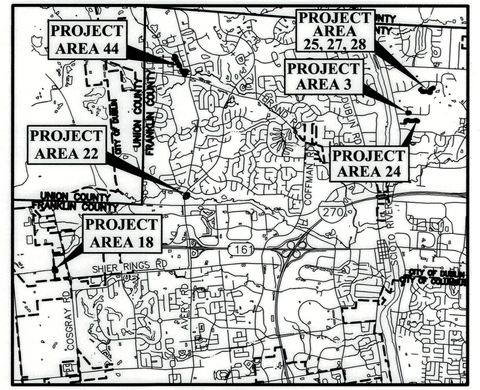
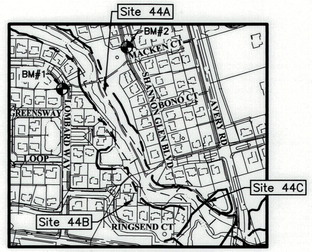
SHEET INDEX

Title Sheet	01
General Notes	02–04
Index Map	05
Estimation of Quantities	06
Horizontal Control Plan	07–10
Site 3 Access Plan	11
Site 3 Tree Clearing Plan	12
Site 3 Details & Notes	13
Site 3 Plan & Profile	14
Site 3 Cross Sections	15
Site 18 Access Plan	16
Site 18 Tree Clearing Plan	17
Site 18 Plan & Profile	18
Site 18 Cross Sections	19
Site 22 Access Plan	20
Site 22 Tree Clearing Plan	21
Site 22 Details	22
Site 22 Plan	23
Site 22 Cross Sections	24
Site 24 Access Plan	25
Site 24 Tree Clearing Plan	26
Site 24 Plan & Profile	27
Site 24 Cross Sections	28
Site 25, 27, & 28 Access Plan	29
Site 25 & 27 Tree Clearing Plan	30
Site 28 Tree Clearing Plan	31
Site 25 Details & Notes	32
Site 25 Plan & Profile	33
Site 25 Cross Sections	34
Site 27 Details	35
Site 27 Plan & Profile	36
Site 27 Cross Sections	37
Site 28 Details	38–39
Site 28 Plan	40
Site 28 Plan & Profile	41
Site 28 Cross Sections	42–43
Site 44A Access Plan	44–45
Site 44B&C Access Plan	46
Site 44A Tree Clearing Plan	47–48
Site 44B&C Tree Clearing Plan	49
Site 44A Details & Notes	50
Site 44A Plan & Profile	51–53
Site 44A Cross Sections	54–56
Site 44B&C Details & Notes	57
Site 44B Plan & Profile	58
Site 44B Cross Sections	59
Site 44C Plan & Profile	60
Site 44C Cross Sections	61
Erosion & Sediment Control Notes & Details	62–64
Erosion Control Mat Details	65
Site 3 Erosion & Sediment Control Plan	66
Site 18 Erosion & Sediment Control Plan	67
Site 22 Erosion & Sediment Control Plan	68
Site 24 Erosion & Sediment Control Plan	69
Site 25 Erosion & Sediment Control Plan	70
Site 27 Erosion & Sediment Control Plan	71
Site 28 Erosion & Sediment Control Plan	72
Site 44A Erosion & Sediment Control Plan	73–74
Site 44B&C Erosion & Sediment Control Plan	75
Site 3 Planting Plan	76
Site 18 Planting Plan	77
Site 22 Planting Plan	78
Site 24 Planting Plan	79
Site 25 Planting Plan	80
Site 27 Planting Plan	81
Site 28 Planting Plan	82–83
Site 44A Planting Plan	84–85
Site 44B&C Planting Plan	86
Planting Details	87
Planting Notes	88–89
Maintenance of Traffic Notes	90
Maintenance of Traffic Site 3	91
Maintenance of Traffic Site 18	92
Maintenance of Traffic Site 22	93
Maintenance of Traffic Site 24	94
Maintenance of Traffic Site 25,27, & 28	95
Maintenance of Traffic Site 44A	96
Maintenance of Traffic Site 44B & C	97

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM
2025

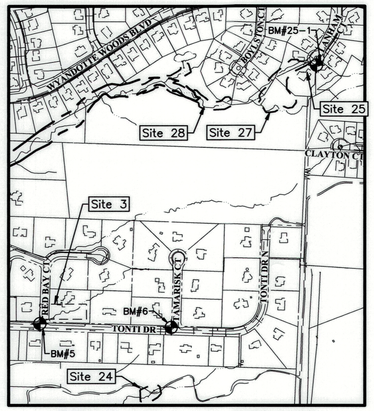


LOCATION MAP
1" = 5000'

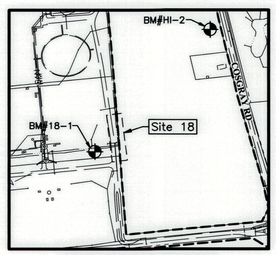


SITE 44 INDEX MAP
Scale : 1" = 500'

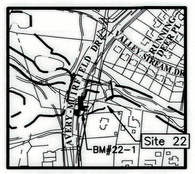
GRAPHIC SCALE
0 250 500 1000
1 inch = 500 feet



SITES 3, 24, 25, 27 & 28 INDEX MAP
Scale : 1" = 500'



SITE 18 INDEX MAP
Scale : 1" = 500'



SITE 22 INDEX MAP
Scale : 1" = 500'

BENCH MARKS
(NAVD 1988)

Source BM HI–2 Aluminum disk in the southwest corner of the west headwall of Cosgray Road bridge WAS–39–4.58 over Cosgray Ditch #2, 0.70 miles south of Dublin–Plain City Road, 24 feet west of the centerline.
Northing = 764892 Easting = 1775840 Elev. = 942.034

BM#1 Chiseled "X" on the east flange bolt of a fire hydrant located on the west side of Lombard Way, being the first hydrant (160 ft) north of Greensway Loop.
Northing = 777650 Easting = 1783058 Elev. = 919.90

BM#2 Chiseled "X" on the east flange bolt of a fire hydrant located on the northwest side of the intersection of Shannon Glen Boulevard and Macken Court.
Northing = 777925 Easting = 1783483 Elev. = 921.39

BM#5 Chiseled "X" on the south flange bolt of a fire hydrant located at the northwest corner of the intersection of Tonti Drive and Red Bay Court.
Northing = 774086 Easting = 1798457 Elev. = 848.30

BM#6 Chiseled "X" on the south flange bolt of a fire hydrant located at the northwest corner of the intersection of Tonti Drive and Tamarisk Court.
Northing = 774061 Easting = 1799323 Elev. = 887.52

BM#18–1 Chiseled square on the southwest corner of a concrete pad for an electric cabinet, being 75 feet south of the southeast corner of Darree Field #13.
Northing = 763776 Easting = 1775082 Elev. = 942.56

BM#22–1 Chiseled "X" on the west flange bolt of a fire hydrant located on the east side of Avery–Muirfield Drive, being on the north side of the driveway to residence #6810.
Northing = 768597 Easting = 1783833 Elev. = 916.11

BM#25–1 Chiseled "X" on the north flange bolt of a fire hydrant located on the south side of the cul–de–sac for Lanham Court, being in front of residence #7778.
Northing = 775791 Easting = 1800280 Elev. = 914.52

STANDARD CONSTRUCTION DRAWINGS

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

City of Columbus	City of Dublin (2024 Edition)	
AA–S102	RD–01	RD–11
AA–S134B	RD–02	ST–01
AA–S149	RD–04	ST–03
AA–S150	RD–05	ST–04
AA–S151	RD–06	ST–05
AA–S161		ST–06
AA–S168		

OWNER
CITY OF DUBLIN
6555 SHIER RINGS ROAD
DUBLIN, OHIO 43016
Tel: (614) 410–4740

ENGINEERS
EMH&T
5500 NEW ALBANY ROAD
NEW ALBANY, OHIO 43054
Tel: (614) 775–4500

STANTEC
1500 LAKE SHORE DRIVE,
SUITE 100, COLUMBUS,
OHIO 43204
Tel: (614) 486–4383

MUNICIPALITY APPROVAL

The signatures below signify only concurrence with the purpose 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.

Approved:

Paul A. Hammersmith 7.1.2025

Director of Engineering/City Engineer
City of Dublin, Ohio
Paul A. Hammersmith, P.E.

Date

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PREPARED BY:

STATE OF OHIO
ALEXANDRIA KOSOMA JENSEN
E-88649
REGISTERED
PROFESSIONAL ENGINEER

EMH&T
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

Registered Engineer No.
(Sheets 01–07, 10–19, 29–30, 32–34, 44–67, 70, 73–77, 80, 84–92, 95–97)

06/20/25
Date

STATE OF OHIO
JONATHAN RICKETTS
E-84552
REGISTERED
PROFESSIONAL ENGINEER

Stantec

Registered Engineer No.
(Sheets 01–06, 08–09, 20–31, 35–43, 62–65, 68–69, 71–72, 78–79, 81–83, 87–90, 93–95)

06/20/2025
Date

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
TITLE SHEET

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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

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
01/97

24-016-CIP

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CITY OF DUBLIN STANDARD GENERAL NOTES

GENERAL

The requirements of the City of Dublin General Conditions, Division 100, together with the most current version of the City of Columbus Construction and Material Specifications (CMSC) and the Ohio Department of Transportation Construction and Material Specification (ODOT CMS), including all supplements thereto, shall govern construction items unless otherwise noted. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted. In case of any conflict among these technical specifications, the greater requirement, as determined by the City of Dublin, shall take precedence.

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 Contractor shall notify the City of Dublin Division of Engineering in writing at least 14 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, a proof survey shall be provided by the Contractor to the Division of Engineering that documents "as–built" elevations, dimensions, slopes, and alignments of all public utilities (storm, water) completed as part of this project. The proof survey shall be prepared, signed, and submitted by an Ohio Professional Surveyor. The Contractor shall revise the original mylars in red ink, to the satisfaction of the City, showing all changes in the work. The cost of the Proof Survey, including mylar revisions, will be paid at the Lump Sum price bid for Item Spec., Record Drawing, As Per Plan. See supplemental notes (Sheet 04).

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 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.

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 the inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspections shall not be approved for installation.

Unless indicated otherwise on the plan details, backfill within a 1:1 influence line of existing structures (houses, garages, etc.) or public infrastructure (pavement, curbs, sidewalks, shared use paths, etc.) shall be compacted granular backfill according to Item 912 of the Standard Specifications or Flowable CDF, Type 2 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 list of proposed precast concrete product manufacturers to the City of Columbus Construction Inspections 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:
Attn.: Paul Hammersmith, PE
Division of Engineering
City of Dublin
6555 Shier Rings Road
Dublin, Ohio 43016

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.

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.

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 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.

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.

Any modification to the work shown on drawings must have prior written approval by the City Engineer, City of Dublin.

UTILITIES

The following utilities are known to be located within the limits of this project:

For Water, Storm Sewer, Sanitary Sewer:
City of Dublin
Division of Engineering
6555 Shier Rings Road
Dublin, OH 43016
Office: (614) 410–4740

Columbia Gas of Ohio
Attn: Rob Caldwell
3350 Johnny Appleseed Ct
Columbus, OH 43231
Office: (614) 818–2104

AEP
Attn: Paul Paxton
700 Morrison Road
Gahanna, OH 43230
Phone: (614) 883–6831
Office: (740) 348–5322

AT&T
Attn: Steve Connell
111 N. 4th Street
Columbus, OH 43215
Phone: (614) 312–2095
Fax: (614) 223–5579

Verizon Business (MCI/XO)
757 Commerce Ct.
Lewis Center, OH 43035
Cell: 614–593–6685 (Jones)
Cell: 614–816–0361 (Dillow)
Robert.dillow@verizon.com
Maurice.jones@verizon.com

Water
City of Columbus
Division of Water
910 Dublin Road
Columbus, OH 43215
Office (614) 818–2104

Charter Communications/Spectrum
(Time Warner Communications)
Attn: Joseph Vlock
3760 Interchange Road
Columbus, OH 43204
614–402–1979 – Cell
614–481–5047 – Office
Joshph.Vlock@charter.com

Columbus FiberNet (Dublink)
Attn: Matt Blackstone
1600 Walcutt Road
Columbus, OH 43228
Phone: (614) 921–8524

Everstream
Attn: Scott Lancia
250 N 5th St. Suite 168
Columbus, OH 43215
Phone: (614) 515–3479
Office: (380) 204–5465

Breezeline (Wow)
Attn: Mark Frey
3675 Corporate Drive
Columbus, OH 43231
dl_cmhfr@breezeline.com

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 3 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, City Engineer, and the Design Professional 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.

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.

EROSION AND SEDIMENT CONTROL

The City 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 21 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 City of Columbus Construction and Material Specifications, and the City Engineer. An individual NPDES Stormwater Discharge Permit is required. The Contractor shall be considered a co–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 14 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.

For Additional Sediment and Erosion Control Notes & Details, see Sheets 62 – 65.

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 copies of permits obtained from Dublin and Columbus to the Washington Twp 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 Dublin and has paid all costs arising from the use of the fire hydrants.

PROJECT SPECIFIC GENERAL NOTES

ELEVATION DATUM

Elevations are based on North American Vertical Datum of 1988 (NAVD 88).

SITE VISIT

The Contractor shall perform field reconnaissance to become acquainted with the existing site conditions and the potential effects upon the scope of work.

PRE-CONSTRUCTION MEETING:

A pre–construction conference involving the City, the Principal Contractor, and all available Sub–Contractors will be held prior to the start of construction.

During the conference the Contractor shall submit his construction schedule, proposed schedule for controlling siltation and erosion, and for temporary and permanent seeding for the project.

PERMITS

The Contractor shall secure and pay for all permits, government fees, and licenses necessary for the proper execution and completion of the improvements shown on the plans.

Waterway Permit

The City will obtain waterway permits from the U.S. Army Corps of Engineers (CWA Section 404 Permit #s in table below). The Contractor must abide by all terms and conditions of the waterway permit that has been obtained for the project for all work within Waters of the United States (i.e., streams, wetlands, etc.). The City has obtained an In Water Work Waiver from ODNR to allow for work to occur within the stream channel through the restricted period of March 15 – June 30 for Sites 18, 22, and 44. The City will pursue an In Water Work Wavier from ODNR for additional sites as needed. All required tree clearing must occur prior to March 31 or after September 30 to comply with permit conditions. USACE NWP's expire March 14, 2026. Work commenced prior to this date must be completed within twelve months to meet permit conditions.

Site	NWP Permit #
3	LRH–2023–878–SCR–Unnamed Tributary to Scioto River
18	LRH–2023–00874–SCR–South Fork Indian Run
22	LRH–2023–877–SCR–South Fork Indian Run
24	LRH–2023–872–SCR
25&27	LRH–2023–875–SCR–Unnamed Tributary (UT) to Scioto River
28	LRH–2023–960–SCR
44	LRH–2024–34–SCR

Floodplain Permit

Sites #3, #24 are shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0151K (effective date: June 17, 2008). The project areas do not have a FEMA–mapped floodplain and are not subject to the Floodplain Development Permit.

Sites #25 and #27 are shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0038K (effective date: June 17, 2008). The project areas do not have a FEMA–mapped floodplain and are not subject to the Floodplain Development Permit.

Site #28 is shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0038K (effective date: June 17, 2008). The project area is located in Zone A, the 100–year floodplain without floodway. The work within the unnamed stream channel and the identified flood hazard areas is subject to the Floodplain Development Permit.

Site #18 is shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0127K (effective date: June 17, 2008). The project area does not have a FEMA–mapped floodplain and is not subject to the Floodplain Development Permit.

Site #22 is shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0131K (effective date: June 17, 2008). The project area is located in Zone AE, the 100–year floodplain and regulatory floodway. The work within the South Fork Indian Run stream channel and the identified flood hazard areas is subject to the Floodplain Development Permit.

Site #44 is shown on Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Franklin County, Ohio and Incorporated Areas, Panel No. 39049C0018K (effective date: June 17, 2008). The project area is located in Zone AE, the 100–year floodplain and regulatory floodway. The regulatory floodway encompasses only Section 44C of Site 44. The work within the Tributary I–2 stream channel and the identified flood hazard areas is subject to the Floodplain Development Permit.

NPDES Permit

The City will obtain a Notice of Intent (NOI) for the project, providing coverage under the Ohio EPA's Construction General Permit. Prior to starting work on the project, the contractor shall become a co–permittee on the NOI.

Copies of all permits shall be kept on–site at all times.

NOTIFICATION

The Contractor shall notify all adjacent landowners a minimum of one week in advance of work near their property. The Contractor shall coordinate with City Engineer for a suggested format for the notice.

Two (2) working days prior to construction, contact the Division of Engineering and their designee identified at the preconstruction meeting to schedule inspection. The City shall inspect the following: All underground utilities, detention/retention ponds, grading, pavement in City Right–of–Way, all sidewalks or bike paths in any public Right–of–Way, and any other items noted during review or at the pre–construction meeting. Final acceptance may be affected if procedures are not followed for proper inspection.

The Contractor is responsible to notify the City's designee for inspection and request a final punch–list inspection of the site once all items on the approved plans have been completed.

INSPECTION

The City of Dublin will provide construction inspection for this project. No work shall be commenced until arrangements have been made with the City Engineer for inspection services and a pre–construction meeting has been held.

WORK HOURS

General work hours on this project shall be from 7AM to 6PM unless otherwise approved by the City. Weekend work may be permitted on a case–by–case basis. Contractor shall make requests for weekend work to the City no later than 48 hours prior.

AERIAL UTILITY CROSSINGS

The Contractor shall install and maintain safety signage at all aerial utility crossings during construction.

ABANDONED UTILITIES

The Contractor shall be responsible for the removal and disposal of any abandoned utility facility that may conflict with any facility or construction activity proposed in these plans, including the installation of proposed conduit, underdrain, storm sewer, structure, waterline, sanitary sewer line, subgrade stabilization, foundations, etc. The Contractor is advised to verify that a utility facility has been abandoned before proceeding with removing it. If it is determined that the utility facility is active and in conflict, then the Contractor shall notify the City prior to proceeding with any affected proposed work.

The cost of the operations necessary to remove and dispose of conflicting abandoned utilities shall be included with the price of the affected item for payment. No separate payment shall be made.

WORK LIMITS

The Contractor is responsible for containing all performed work and all equipment, materials, vehicles, etc., used to complete the work within the rights–of–way of the streets, roadways, temporary easements, permanent easements, property boundaries, and limits of disturbance of the project improvements, as shown on these plans.

The Contractor is responsible for cost of restoration for any area outside of the right–of–way, permanent easement, property boundaries, or limits of disturbance to former condition or better and to the satisfaction of the City.

CONSTRUCTION LAYOUT

General field layout control shall be provided by the Contractor. Provisions for all other construction staking required to accomplish the improvements shall be performed in accordance with the Contract Documents. All staking shall be completed by a Professional Surveyor registered with the State of Ohio.

ACCESS

Access to adjoining properties shall be maintained at all times.

ACCESS TO THE STREAM CORRIDOR

During construction of the bank stabilization and stream corridor projects, the Contractor shall minimize vehicular travel along unstabilized slopes. Contractor shall maintain a minimal number of access points for construction vehicles to enter the stream corridor.

CONVENIENCE FACILITIES

The Contractor shall furnish and maintain sanitary convenience facilities for the workmen and inspectors for the duration of the work. Cost shall be included in the price bid for the various items.

SIGNS, MAILBOXES, FENCES, ETC.

The Contractor shall be responsible for restoring all signs, mailboxes, fences, guardrail, shrubs, property, drainage structures, or other physical features disturbed or damaged during construction, whether shown on the plans or not, to their original or better condition and location and to the satisfaction of the City. Cost to be included in the price bid for the various items.

MAIL DELIVERY

The Contractor shall be responsible to ensure that U.S. 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 U.S. Postal Service and the Homeowner.

MAINTAIN DRAINAGE

The flow in all sewers, drains, and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work, they shall be restored by the Contractor at his own cost and expense, unless specific provision is made within the Contract Documents for the measure of and payment for such cost specific items, to a condition satisfactory to the City.

All drain tile and storm sewers damaged, disturbed, or removed as a result of the Contractor's operations shall be replaced with the same quality pipe or better, maintaining the same gradient as existing. Replaced drain tile shall be laid on compacted bedding equal in density to surrounding stratum. Replacement shall be done at the time of the backfill operation.

SOIL STOCKPILES

The Contractor shall be responsible for keeping all soil stockpiles, including trench excavation stockpiles, protected from erosion. The areas surrounding the stockpiles are to be protected from sediment with the use of perimeter control devices such as earth or straw bale devices or silt fences. These perimeter control devices shall be maintained for the duration of the project.

CONSTRUCTION DEBRIS

All debris, rubble, unusable materials, and items not salvaged by the City shall become the property of the Contractor and shall be removed from the site by the Contractor and disposed of properly.

DUST CONTROL

The Contractor shall be responsible for providing Dust Control measures in accordance with ODOT CMS Item 616. Dust control operations shall be performed on a periodic basis and/or as directed by the City to alleviate and/or prevent the dust nuisance originating within the project work limits. Calcium Chloride will not be permitted. The cost for all dust control including but not limited to calcium chloride, water, and street sweeping shall be included in the price bid for the various related items.

MAINTENANCE OF CONSTRUCTION EQUIPMENT

All construction equipment shall be inspected daily for hydraulic and fuel leaks. Contractor shall use Environmentally Acceptable (EA) hydraulic fluid in all machinery used to work within or along the stream corridor. All fuel operations, lubricating, hydraulic topping off and equipment repairs and maintenance shall be performed at upland locations away from the onsite wetlands and stream channels. These activities must take place on an approved pad with spill control/collection devices in place. No storage of fuels or lubricants will be allowed on site. All equipment and materials not in use must be securely locked to avoid vandalism and accidental spills. Emergency response liquid containment devices such as absorbent socks and pads shall be readily available on site. Fuel tank purging or draining of water from fuel bowls is prohibited on site.

General Notes continue on Sheet 03...

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
GENERAL NOTES

EMH&T
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

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
02/97

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...General Notes continued from Sheet 02

PROHIBITED CONSTRUCTION ACTIVITIES

The Contractor shall not use construction proceedings, activities, or operations that may unnecessarily impact the natural environment or the public health and safety. Prohibited construction proceedings, activities or operations include, but are not limited to:

a) Disposing of excess or unsuitable excavated material in wetlands or floodplains, even with the permission of the property owner.

b) Indiscriminate, arbitrary, or capricious operation of equipment in any stream corridors, any wetlands, any surface waters, or outside the easement lines.

c) Pumping of sediment–laden water from trenches or other excavations into any surface waters, any stream corridors, any wetlands or storm drains.

d) Discharging pollutants such as chemicals, fuel, lubricants, bituminous materials, raw sewage, and other harmful waste into or alongside of rivers, streams, impoundments or into natural or man–made channels leading thereto.

e) Permanent or unspecified alteration of flow line of a stream beyond what is depicted on the plans.

f) Damaging vegetation outside of the construction area.

g) Disposal of trees, brush and other debris in any stream corridors, any wetlands, and surface water, or at unspecified locations.

h) The open burning of site–cleaning debris, trash, etc. is prohibited in the City.

i) Storing construction equipment and vehicles and/or stock piling construction materials on property, public or private, not previously specified by the City for said purpose.

SAW CUTTING

When saw cutting of pavement (concrete, asphalt, etc.) is necessary, the Contractor shall employ dust collection measures and shall ensure all slurry is cleaned from the roadway immediately after sawing. The Contractor is solely responsible for any damage to private property caused by fugitive dust and slurry. Saw cutting of any material containing silica shall conform to OSHA requirements.

GRADE CHECKS

The Contractor shall ensure there is surveyor's equipment on the project site for use in performing grade checks. The Contractor shall make this equipment available for the use of, and assist, the City in performing grade checks when requested by the Inspector. The Inspector will make all reasonable attempts to confine requests for assistance in performing grade checks to a time convenient to the Contractor.

A grade check performed by the City in no way relieves the Contractor from the ultimate responsibility to ensure construction to the plan grade.

GRADE CHANGES

If it is determined that the elevation of the existing sewer, or existing appurtenance to be connected to, differs from the plan elevation or results in a change in the plan sewer slope, the City shall be notified before starting construction of any portion of the proposed sewer which will be affected by the variance in the existing elevations.

If it is determined that the proposed sewer will intersect an existing sewer or underground utility if constructed as shown on the plan, the City shall be notified before starting construction of any portion of the proposed sewer which would be affected by the interference with an existing facility

Grades and elevations shown on the plans shall not be revised under any circumstances without first obtaining written approval from the City.

ENVIRONMENTAL COMMITMENTS

Call the Ohio EPA Spill Hotline (1–800–282–9378) and the Ohio EPA Section 401/IWP Manager (614–728–3778) in the event of a spill.

Any unpermitted impacts to surface waters and/or their buffers shall be reported to Ohio EPA Section 401/IWP Manager (614–728–3778) within 24 hours.

Authorized Ohio EPA representative shall be allowed to inspect the property at reasonable times.

Chemically treated lumber shall not be used in structures that come into contact with waters of the state.

Limits of wetland and stream buffers/tree protection areas shall be staked prior to any land disturbance activity.

Ensure temporary fill consists of suitable non–erodible material and is stabilized to prevent erosion.

Construction activities will be performed during low flow conditions to the greatest extent practicable.

The Contractor shall not stockpile soil or any other materials/equipment in the vicinity of any identified wetlands.

PROTECTION OF TOPSOIL

Contractor shall avoid unnecessary vehicular travel across placed and existing topsoil within the stream corridor. Compacted topsoil shall be disced prior to planting. See Topsoil Notes on This Sheet.

PROTECTION OF LANDSCAPING

The Contractor shall constrict all activities, equipment storage and staging to within the construction limits. Unless otherwise identified in the plans, the construction limits are plotted accordingly.

Care shall be exercised when working in the area around existing trees and shrubs. Any trees or shrubs not marked for removal that are damaged by the Contractor will have to be replaced by the Contractor to the satisfaction of the owner.

LANDSCAPE CONTRACTOR QUALIFICATIONS REQUIRED

The Contractor is hereby advised that the landscape improvements to be constructed under this project are critical to the project's ability to meet the requirements of the approved stream stabilization plan document. All landscape work shall be performed by a qualified landscaping contractor with documented prior experience successfully completing installations on similar projects.

LANDSCAPING WARRANTY

The Contractor shall refer to the Planting Notes (Sheets 88 to 89) for information regarding the landscaping warranty.

MAINTENANCE OF TRAFFIC

All temporary traffic control devices shall be furnished, erected, maintained, and removed by the Contractor in accordance with the most recent edition of the "Ohio Manual of Traffic Control Devices for Construction and Maintenance Operations".

Lane restrictions or closures required during construction must be approved by the City (and county/township if their roads will be used for detour) a minimum of two (2) weeks prior to any work being performed. Otherwise, traffic lanes shall be fully open to traffic at all times and ingress and egress shall be maintained to public and private property.

SITE RESTORATION

The Contractor shall repair or replace any and all existing work damaged during or due to the execution of this contract to equal or better condition prior to the damage, at the Contractor's own expense. All said work to be repaired or replaced to the satisfaction of the City. Any damage to other utilities caused by the Contractor shall be repaired by the appropriate utility company.

COMPLETE PROJECT

The Contractor shall be required to construct a complete project, meeting the intent of these drawings and specifications. Any items required to complete the work that do not have a specific method of payment described shall be performed by the Contractor. The cost of the work shall be included in the price for the various related items.

SUPPLEMENTAL NOTES

ITEM 201, CLEARING AND GRUBBING, AS PER PLAN

Existing trees to be removed, as indicated on the plan, shall be removed prior to April 1st or after September 30. An estimate of the location of trees to be removed are shown on Sheets 12, 17, 21, 26, 30, 31, 47, 48 & 49. If approved by the City, all wood chips that result from clearing and grubbing activities may remain onsite at a location to be determined by the City.

Removal of additional brush within the limits of disturbance and not explicitly hatched in the plans may be necessary to complete the proposed work. All required clearing and grubbing shall be included in the price bid for this item. The cost of all work and expenses associated with the removal of trees, stumps, roots, and/or branch cutting shall be included in price bid for Item 201, Clearing and Grubbing, As Per Plan. No extra payment shall be made therefore.

ITEM 202, REMOVAL MISC.: HEADWALL REMOVED, AS PER PLAN

This work shall consist of removing and disposing of existing headwalls at locations indicated on the plans. General Construction Requirements for this work shall be per Item 202.02. Cavities created by the removal of the headwalls shall be backfilled in accordance with Item 202.02. Payment shall be per each headwall removed and shall include all equipment, labor, materials, and incidentals necessary to complete this item of work as described above to the satisfaction of the City.

ITEM 203, EMBANKMENT, AS PER PLAN

The specifications of Item 203 shall apply for this work along with the following notes. Fill within the planting zones shall be compacted in horizontal lifts to reach a target compaction requirement of 90% Standard Proctor (±2.5%) and wet of optimum moisture content. Fill in all other areas shall be compacted according to Item 203. All required testing to be provided by the Contractor.

The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 203, Embankment, As Per Plan.

ITEM 203, EXCAVATION (STOCKPILED), AS PER PLAN

This item consists of excavating material from the proposed grading area and stockpiling on–site for reuse as embankment material within the proposed stream stabilization corridor.

The specifications within Item 203 shall apply for this work along with the following notes. The Contractor shall coordinate with the City if the material is suitable for reuse and to confirm the temporary onsite stockpile location shown in the plans. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 203, Excavation (Stockpiled), As Per Plan.

ITEM 203, EXCAVATION (TO HAUL OFFSITE), AS PER PLAN

This item consists of excavating material from the proposed grading area to be disposed off–site. The Contractor shall provide a copy of the signed, written agreement between the Contractor and the offsite landowner before such disposal occurs. The agreement shall clearly state the purpose of the agreement and indicate the landowner's permission for such use. This item also includes, but is not limited to, removal and disposal of pipe and headwall debris.

The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 203, Excavation (To Haul Offsite), As Per Plan.

ITEM 207, EROSION AND SEDIMENT CONTROL, AS PER PLAN

Refer to Plan Sheets 62 through 75 for the erosion and sediment control plan, notes and details. The cost of all labor, equipment, and materials associated with the installation and removal of the stabilized construction entrance/timber mats, concrete washout, rock check dams, stream pump around, temporary construction fencing, inlet protection, stream crossings, and compost filter sock shall be included in the price bid for Item 207, Erosion and Sediment Control, As Per Plan.

ITEM 253, SIDEWALK REMOVED AND REPLACED (CONCRETE), AS PER PLAN

This item shall consist of the removal of the existing concrete sidewalk areas shown on the plans to subgrade, as directed by the City, by full–depth sawing and excavation. The width of these repairs will be the full width of the sidewalk. All surrounding yard areas that are disturbed as a result of this construction shall be restored per the Item 659, Seeding and Mulching, Class Special, As Per Plan Note on this Sheet. Reference City of Dublin Standard Drawing RD–05 for replacement details. The cost of said restoration shall be included in the price bid for Item 253, Sidewalk Removed and Replaced (Concrete), As Per Plan.

ITEM 253, SPOT FULL DEPTH ASPHALT PAVEMENT REPAIR, DRIVE, AS PER PLAN

This item shall consist of the removal of the existing pavement areas shown on the plans to subgrade, as directed by the City, by full–depth sawing and excavation. The depth/thickness of the pavement shall consist of 6" of Item 304 Aggregate Base, 3" of Item 301 – Bituminous Aggregate Base, 1 ½" of Item 441, Asphalt Concrete Intermediate Course Type 2 PG. 64–22 Medium Traffic, and 1 ½" of Item 441. Asphalt Concrete Surface Course Type 1 PG. 64–22 Medium Traffic. Reference City of Dublin Standard Drawing RD–04 for replacement details for depth/thickness of the pavement. The width of these repairs will be the full width of the drive. All surrounding yard areas that are disturbed as a result of this construction shall be restored per the Item 659, Seeding and Mulching, Class Special, As Per Plan Note on this Sheet. The cost of said restoration shall be included in the price bid for Item 253, Spot Full Depth Asphalt Pavement Repair, Drive, As Per Plan.

ITEM 253, SPOT FULL DEPTH ASPHALT PAVEMENT REPAIR, TRAIL, AS PER PLAN

This item shall consist of the removal of the existing pavement areas shown on the plans to subgrade, as directed by the City, by full–depth sawing and excavation. Reference City of Dublin Standard Drawing RD–06 for replacement details for depth/thickness of the pavement. The width of these repairs will be the full width of the trail, which is typically 8'. All surrounding yard areas that are disturbed as a result of this construction shall be restored per the Item 659, Seeding and Mulching, Class Special, As Per Plan Note on this Sheet. The cost of said restoration shall be included in the price bid for Item 253, Spot Full Depth Asphalt Pavement Repair, Trail, As Per Plan.

ITEM 304, AGGREGATE BASE, AS PER PLAN (WALKING TRAIL REPAIR)

This item shall consist of spot repairs to the existing gravel path used for Site 24 construction access. The specifications within Item 304 shall apply for this work along with the following notes. The material type and width of the restored gravel walking trail shall match the existing trail. The existing trail width is approximately 9–feet wide. It is assumed that the entire length of the gravel portion of the trail will require redressing of 6–inches of material. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 304, Aggregate Base, As Per Plan (Walking Trail Repair).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE A, WITH AGGREGATE FILTER, AS PER PLAN (ROCK TOE FOR SITE 27)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type A, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type A, With Aggregate Filter, As Per Plan (Rock Toe for Site 27).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE B, WITH AGGREGATE FILTER, AS PER PLAN (BANK STABILIZATION)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type B, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type B, With Aggregate Filter, As Per Plan (Bank Stabilization).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE B, WITH AGGREGATE FILTER, AS PER PLAN (OUTFALL PROTECTION FOR SITE 27)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type B, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type B, With Aggregate Filter, As Per Plan (Outfall Protection for Site 27).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE B, WITH AGGREGATE FILTER, AS PER PLAN (BASIN OUTFALL, ROCK RAMP FOR SITE 28)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type B, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type B, With Aggregate Filter, As Per Plan (Basin Outfall, Rock Ramp for Site 28).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE C, WITH AGGREGATE FILTER, AS PER PLAN (BANK STABILIZATION)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type C, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type C, With Aggregate Filter, As Per Plan (Bank Stabilization).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE C, WITH AGGREGATE FILTER, AS PER PLAN (OUTFALL PROTECTION FOR SITE 24)

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. In addition, the voids between stones shall be filled with #1 and #2 stone. Plan quantities assume a 30% void ratio in rock channel protection to be infilled with #1 and #2 stone. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type C, with Aggregate Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type C, With Aggregate Filter, As Per Plan (Outfall Protection for Site 24).

ITEM 601, ROCK CHANNEL PROTECTION, TYPE D, WITH FILTER, AS PER PLAN

The specifications within Item 601 shall apply for this work along with the following notes. No reinforcing steel is permitted. Rock Channel Protection shall conform to ODOT CMS Section 601.09. Recycled concrete is not permitted for use as riprap (rock channel protection) on this project. Rock Channel Protection, Type D, with Filter shall be installed at the location shown on the plans. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 601, Rock Channel Protection, Type D, With Filter, As Per Plan.

ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN

The Contractor shall provide all labor, equipment, and material necessary to install the specified pipe with cleanouts and/or yard drains, as indicated in the details on the plan. Material furnished shall be a like material unless otherwise noted. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 605, 4" Unclassified Pipe Underdrains, As Per Plan.

ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN

The Contractor shall provide all labor, equipment, and material necessary to install the specified pipe with cleanouts and/or yard drains, as indicated in the details on the plan. Material furnished shall be a like material unless otherwise noted. The cost of all labor, equipment, and materials associated with this work shall be in included in the price bid for Item 605, 6" Unclassified Pipe Underdrains, As Per Plan.

ITEM 609, REMOVE AND REPLACE CONCRETE CURB & GUTTER, AS PER PLAN

This item involves the removal and disposal of the existing combination curb and gutter at the location shown on the plans, and replacement of same with City of Dublin Standard Drawing RD–02 Combination Concrete Curb and Gutter, all as directed by the City. All disturbed pavement shall be repaired according to City of Dublin Standard Drawing RD–01 within 10 working days of curb placement. Some sections of curb to be replaced are backed (or adjacent to) brick or concrete sidewalks. The Contractor will be responsible to protect and restore all adjacent walks to their original condition if disturbed or damaged as a result of the Contractor's curb removal methods.

The Contractor shall take all necessary precautions to prevent damage to adjacent asphalt street pavement adjacent to curb being removed on streets where no asphalt overlay is planned. Precautions shall include, but not be limited to wet–sawing existing curb with a vermeer saw and sawing asphalt full depth per attached curb and gutter drawing. Additionally, the Contractor must clean and remove any slurry that is deposited during wet–sawing.

The Contractor shall exercise special care to maintain gutter grades and to make certain that existing asphalt concrete surfaces are not damaged during curb removal operations. Disturbed grass areas, including depressions, shall be restored by placing topsoil, approved seed, fertilizer and mulch material, see Item 659, Seeding and Mulching, Class Special, As Per Plan Note on Sheet 04. All labor, materials, equipment, lights signs, barricades, landscape restoration, and other incidentals necessary to perform the work as outlined, including asphalt concrete repair on street where no overlay is planned, shall be included in the price bid for Item 609, Remove and Replace Concrete Curb and Gutter, As Per Plan. No additional compensation will be allowed over and above the contract price.

Care shall be taken in the removal of the existing curb so as not to damage or displace existing drain tile, and any existing drain tile damaged by the Contractor's operation, shall be restored to its existing condition or replaced with a new tile at the Contractor's expense.

All spot curb and gutter removed shall be replaced within three working days after its removal, and whenever the Contractor exceeds this time stipulation he shall suspend curb removal until he is again in conformance with this provision. Many sections of curb to be replaced will not begin or end at curb joints. The Contractor shall saw cut the existing curb and gutter full depth at these points prior to curb removal. The Contractor will also utilize full–height forms when forming curbs. The Contractor is advised that the minimum pay length for spot curb removal and replacement is five feet, and that many replacement sections are of the minimum length. The price for performing the saw cuts shall be included with this item.

ITEM 609, REMOVE AND REPLACE STRAIGHT CURB, AS PER PLAN

This item involves the removal and disposal of the existing straight curb at the location shown on the plans, and replacement of same with City of Dublin Standard Drawing RD–11 Straight 18" Concrete Curb, all as directed by the City. All disturbed pavement shall be repaired according to City of Dublin Standard Drawing RD–01 within 10 working days of curb placement. Some sections of curb to be replaced are backed (or adjacent to) brick or concrete sidewalks. The Contractor will be responsible to protect and restore all adjacent walks to their original condition if disturbed or damaged as a result of the Contractor's curb removal methods.

The Contractor shall take all necessary precautions to prevent damage to adjacent asphalt street pavement adjacent to curb being removed on streets where no asphalt overlay is planned. Precautions shall include, but not be limited to wet–sawing existing curb with a vermeer saw and sawing asphalt full depth per attached curb drawing. Additionally, the Contractor must clean and remove any slurry that is deposited during wet–sawing.

The Contractor shall exercise special care to make certain that existing asphalt concrete surfaces are not damaged during curb removal operations. Disturbed grass areas, including depressions, shall be restored by placing topsoil, approved seed, fertilizer and mulch material, see Item 659, Seeding and Mulching, Class Special, As Per Plan Note on Sheet 04. All labor, materials, equipment, lights signs, barricades, landscape restoration, and other incidentals necessary to perform the work as outlined, including asphalt concrete repair on street where no overlay is planned, shall be included in the price bid for Item 609, Remove and Replace Straight Curb, As Per Plan. No additional compensation will be allowed over and above the contract price.

Care shall be taken in the removal of the existing curb so as not to damage or displace existing drain tile, and any existing drain tile damaged by the Contractor's operation, shall be restored to its existing condition or replaced with a new tile at the Contractor's expense.

All spot curb removed shall be replaced within three working days after its removal, and whenever the Contractor exceeds this time stipulation he shall suspend curb removal until he is again in conformance with this provision. Many sections of curb to be replaced will not begin or end at curb joints. The Contractor shall saw cut the existing curb and gutter full depth at these points prior to curb removal. The Contractor will also utilize full–height forms when forming curbs. The Contractor is advised that the minimum pay length for spot curb removal and replacement is five feet, and that many replacement sections are of the minimum length. The price for performing the saw cuts shall be included with this item.

ITEM 614, MAINTENANCE OF TRAFFIC, AS PER PLAN

See Maintenance of Traffic Plan, Sheets 90 to 97.

The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 614, Maintenance of Traffic, As Per Plan.

Supplemental Notes continue on Sheet 04...

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
GENERAL NOTES

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
03/97

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...Supplemental Notes continued from Sheet 03

ITEM 653, TOPSOIL FURNISHED AND PLACED, AS PER PLAN

The Contractor shall spread topsoil across the work areas specified on this plan to the following depths:

—Embankment Slopes and Riparian Planting Area: 6—Inches Minimum
—All Other Areas: 4—Inches Minimum

All topsoil shall be of the highest quality and free of all stones, trash, and other deleterious materials greater than 1/4".

Submittals:

1. Prior to placing topsoil material, Contractor shall submit topsoil test results in conformance with the requirements of ODOT CMS 659.02 and provide the test results to the City. The City shall determine if soil amendments (compost, lime, fertilizer, etc.) are required. If soil amendments are required, the labor, materials, and equipment associated with providing the soil amendments will be paid for under a change order.
2. Prior to placing topsoil, the Contractor shall have approval of subgrade elevations according to Item Spec, Grade Checking, As Per Plan.
3. Prior to seeding, the Contractor shall have approval of final grade elevations according to Item Spec, Grade Checking, As Per Plan.

Construction Methods:

1. The Contractor shall prepare the site prior to installation of seed and plant materials, including discing the subgrade 12" prior to placing topsoil.
2. The Contractor shall spread topsoil (with approved amendments) on the project site to the minimum depths indicated on the plans.
3. All topsoil shall be saturated with water and allowed to settle prior to seeding. Settled areas shall be refilled and saturated again prior to seeding.
4. The site shall be fine graded to the elevations shown on the plans, within tolerances specified in Item Spec., Grade Checking, As Per Plan.
5. Topsoil shall be loosened prior to seeding using disks, rakes, or other methods.
6. All seeding, fertilizer, mulch and erosion control matting shall be placed within five (5) working days of placing topsoil.

Perform the work according to ODOT CMS Item 653. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 653, Topsoil Furnished and Placed, As Per Plan.

ITEM 659, SEEDING AND MULCHING, CLASS SPECIAL, AS PER PLAN

Repair seeding and mulching shall conform to the notes contained herein and the requirements of ODOT CMS Section 659. In addition to these requirements, the seeding and mulching shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilized within seven days of the most recent disturbance. Disturbed areas within 50 feet of a surface water must be permanently stabilized within 2 days of reaching final grade.

Temporary seeding: disturbed areas that are not at final grade and that will be dormant for more than 14 days shall be temporarily stabilized within 7 days of the most recent disturbance. Disturbed areas within 50 feet of a surface water and that will be dormant for more than 14 days shall be temporarily stabilized within 2 days of the most recent disturbance.

The following permanent seed mix shall be used to repair any additional disturbed earth not covered on Sheets 76 to 86 and referred to within this plan as Item 659, Seeding and Mulching, Class Special, As Per Plan.

REQUIRED PERMANENT SEED MIXES FOR CONSTRUCTION
Option #1 (Seeding Dates: March 1 to September 14)
40% Kentucky Blue Grass
20% Creeping Red Fine Fescue
20% Chewings Fine Fescue
20% Penn Fine Perennial Rye Grass

Option #2 (Fall Seeding Dates: September 15 to October 31)
30% Kentucky Blue Grass
20% Creeping Red Fine Fescue
50% Perennial Rye (Penn Fine, Keystone, or equal)

Fertilizer
12—12—12 at 20 pounds per 1,000 square feet (dry or liquid)

Temporary seeding shall be applied per the specifications provided within the OEPA "Rainwater and Land Development" manual.

ITEM 659, SEEDING AND MULCHING, CLASS 4A, AS PER PLAN

Seeding shall conform to the notes contained herein and the requirements of ODOT CMS Section 659. Cover for the seeding will use turf reinforcement matting, as shown in the Planting Plan and Typical Section Details. In addition to these requirements, the seeding shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilized within seven days of the most recent disturbance. Disturbed areas within 50 feet of a surface water must be permanently stabilized within 2 days of reaching final grade.

Temporary seeding: disturbed areas that are not at final grade and that will be dormant for more than 14 days shall be temporarily stabilized within 7 days of the most recent disturbance. Disturbed areas within 50 feet of a surface water and that will be dormant for more than 14 days shall be temporarily stabilized within 2 days of the most recent disturbance.

Perform the work according to ODOT CMS Item 659. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 659, Seeding And Mulching, Class 4A, As Per Plan.

ITEM 659, SEEDING AND MULCHING, RETENTION BASIN MIX, AS PER PLAN

Seeding shall conform to the notes contained herein and the requirements of ODOT CMS Section 659. Cover for the seeding will use mulch and/or turf reinforcement matting, as shown in the Planting Plan and Typical Section Details. In addition to these requirements, the seeding shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilized within seven days of the most recent disturbance. Disturbed areas within 50 feet of a surface water must be permanently stabilized within 2 days of reaching final grade.

Temporary seeding: disturbed areas that are not at final grade and that will be dormant for more than 14 days shall be temporarily stabilized within 7 days of the most recent disturbance. Disturbed areas within 50 feet of a surface water and that will be dormant for more than 14 days shall be temporarily stabilized within 2 days of the most recent disturbance.

Perform the work according to ODOT CMS Item 659. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 659, Seeding And Mulching, Retention Basin Mix, As Per Plan.

ITEM 659, SEEDING AND MULCHING, ZONE 2, AS PER PLAN

Seeding shall conform to the notes contained herein and the requirements of ODOT CMS Section 659. Cover for the seeding will use mulch and/or slope erosion control matting, as shown in the Planting Plan and Typical Section Details. In addition to these requirements, the seeding shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilized within seven days of the most recent disturbance. Disturbed areas within 50 feet of a surface water must be permanently stabilized within 2 days of reaching final grade.

Temporary seeding: disturbed areas that are not at final grade and that will be dormant for more than 14 days shall be temporarily stabilized within 7 days of the most recent disturbance. Disturbed areas within 50 feet of a surface water and that will be dormant for more than 14 days shall be temporarily stabilized within 2 days of the most recent disturbance.

The Zone 2 Seed Mix is specified on Sheets 76 to 86. This seed mix shall be used in the areas specified on Sheets 76 to 86 and is referred to within this plan as Item 659, Seeding And Mulching, Zone 2, As Per Plan.

Perform the work according to ODOT CMS Item 659. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 659, Seeding And Mulching, Zone 2, As Per Plan.

ITEM 659, SEEDING AND MULCHING, ZONE 3, AS PER PLAN

Seeding shall conform to the notes contained herein and the requirements of ODOT CMS Section 659. Cover for the seeding will use mulch and/or slope erosion control matting, as shown in the Planting Plan and Typical Section Details. In addition to these requirements, the seeding shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilized within seven days of the most recent disturbance. Disturbed areas within 50 feet of a surface water must be permanently stabilized within 2 days of reaching final grade.

Temporary seeding: disturbed areas that are not at final grade and that will be dormant for more than 14 days shall be temporarily stabilized within 7 days of the most recent disturbance. Disturbed areas within 50 feet of a surface water and that will be dormant for more than 14 days shall be temporarily stabilized within 2 days of the most recent disturbance.

The Zone 3 Seed Mix is specified on Sheets 76 to 86. This seed mix shall be used in the areas specified on Sheets 76 to 86 and is referred to within this plan as Item 659, Seeding And Mulching, Zone 3, As Per Plan.

Perform the work according to ODOT CMS Item 659. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item 659, Seeding And Mulching, Zone 3, As Per Plan.

ITEM 661, BARE ROOT SHRUBS, 18" HT., AS PER PLAN
ITEM 661, BARE ROOT TREES, 18" HT., AS PER PLAN
ITEM 661, DECIDUOUS SHRUB, NO. 5 CONT., AS PER PLAN
ITEM 661, DECIDUOUS TREE, NO. 15 CONT., AS PER PLAN
ITEM 661, WILLOW LIVE STAKE, 24" HT., AS PER PLAN

The specifications within Item 661 shall apply for this work as modified by the Planting Notes, Details, and Planting Plan on Sheets 76 to 89. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for the following items:

Item 661, Bare Root Shrubs, 18" Ht., As Per Plan
Item 661, Bare Root Trees, 18" Ht., As Per Plan
Item 661, Deciduous Shrub, No. 5 Cont., As Per Plan
Item 661, Deciduous Tree, No. 15 Cont., As Per Plan
Item 661, Willow Live Stake, 24" Ht., As Per Plan

ITEM 670, SLOPE EROSION PROTECTION MAT, AS PER PLAN

This work includes all labor, equipment, and material required to install a slope erosion protection mat at the location and elevation indicated on the plans. The slope erosion protection mat shall be North American Green C125BN or approved equal or North American Green C700BN or approved equal, as specified per project site. Mat shall be installed with anchor trenches, overlaps, and anchor staples following the manufacturers recommendations. Anchor staples shall be installed at no less than 3.75 staples per square yard. A detail of the installation is provided on Sheet 65. The cost of all labor, equipment, and materials required for this work shall be included in the price bid for Item 670, Slope Erosion Protection Mat, As Per Plan.

ITEM 670, TURF REINFORCEMENT MAT, AS PER PLAN

This work includes all labor, equipment, and material required to install a composite turf reinforcement mat at the location and elevation indicated on the plans. The composite turf reinforcement mat shall be North American Green C350 or approved equal or North American Green TMax or approved equal, as specified per project site. Mat shall be installed with anchor trenches, overlaps, and anchor staples following the manufacturers recommendations. Anchor staples shall be installed at no less than 3.75 staples per square yard. A detail of the installation is provided on Sheet 65. The cost of all labor, equipment, and materials required for this work shall be included in the price bid for Item 670, Turf Reinforcement Mat, As Per Plan.

ITEM SPEC., DEWATERING, AS PER PLAN

Contractor shall perform dewatering operations as indicated on the plans and as necessary to perform the work. Contractor shall provide a dewatering plan for the City's approval, install and maintain dewatering operations, collect and remove accumulated sediment from the work area, and remove dewatering works upon completion of the construction activities that require dewatering. Dewatering activities shall be performed in strict accordance with local noise ordinances. The Contractor shall furnish, install, and maintain throughout the course of the work mufflers, noise—control enclosures, or other noise control methods, measures, and features on and around all dewatering pumps such that steady noise emanating from this equipment does not disturb adjacent property operations. The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item Spec., Dewatering, As Per Plan.

ITEM SPEC., GRADE CHECKING, AS PER PLAN

Grade checking shall be performed at incremental stages of the project. Surveying shall be performed under supervision of an Ohio licensed Professional Surveyor. Survey data will be evaluated by the City for conformance within the specified tolerance. The Contractor must submit updated survey data to document that all required adjustments have resolved the noted deficiencies.

Submittal Requirements:
Submit survey spot shots to the City in a CAD—compatible format (i.e. point files as .csv or .txt) for the following items until grade is approved to be within plan tolerance.

Storm Sewer:
Submit spot shots at all manholes and catch basins, of the pipe inverts, and top of casting; pipe invert at endwalls.

Channel Profile and Cross Sections:
Submit spot shots along the proposed profile grade, which includes all grade breaks. Cross sections along hydraulic model sections (extending from top of bank to top of bank only) shall also be submitted, as directed by the City. Channel profile and cross section elevations shall be approved prior to finalizing subgrade elevations.

Subgrade [Final Grade — Topsoil Depth]:
Submit spot shots of the subgrade within the proposed grading area on a 15—foot grid minimum and include all grade breaks. Cross sections along hydraulic model sections shall also be submitted, as directed by the City. Topsoil shall not be placed until approval of subgrade elevations is obtained.

Final Grade
Submit spot shots of the final grade within the proposed grading area on a 15—foot grid and at hydraulic model cross sections, as directed by the City. Topsoil shall not be seeded until approval of final grade elevations is obtained.

Project Tolerance:

Subgrade [Final Grade — Topsoil Depth]:	+0.00 ft / — 0.25 ft
Final Grade:	+/— 0.15 ft
Storm Sewer:	+/— 0.10 ft

ITEM SPEC., DIGITAL VIDEO RECORDING

A minimum of one week prior to commencing Work, the Contractor shall have digital video taken of all areas where construction is to take place. The video shall be provided to the City prior to commencing Work and shall be taken along the line of construction and site access and staging areas at sufficient detail as necessary to clearly depict details of existing conditions. The video shall serve as a record of the existing conditions and will be used as a reference by the City to determine sufficiency of restoration of areas disturbed by construction access and staging, including pedestrian trails, roadways, curbs, sidewalks, lawns and open space. The Contractor shall also have digital video taken of any unusual conditions encountered during construction that are not already a matter of video or photographic record. In any areas where existing conditions cannot be determined by means of the video provided by the Contractor, the area shall be restored as directed by the City at no additional cost to the Owner.

All digital video shall be in color and submitted to the City on flash drive. All videos shall be indexed and catalogued in such a manner that each recorded area is readily identifiable, and shall also indicate the date and time (hour, minutes and seconds) on which the recording was made. All flash drives shall become the property of the Owner.

All work required to produce the deliver the video to the City shall paid for under Item, Spec., Digital Video Recording.

ITEM SPEC., RECORD DRAWING, AS PER PLAN

After all items within the Item Spec, Grade Checking, As Per Plan specification are approved, the Contractor shall submit a record drawing of the project to the City complying with the following:

1. Final spot elevations overlaid on 22"x34" plan sheets in both CAD and PDF format for the stream stabilization locations, as specified under Item Spec., Grade Checking, As Per Plan.
2. Record drawing shall include a statement indicating elevations are within plan tolerance and represents a record survey of the completed Dublin Waterways Maintenance Program — Year 2 project.
3. Record drawing shall be signed and sealed by a Professional Surveyor registered in the State of Ohio.

The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item Spec., Record Drawing, As Per Plan.

ITEM SPEC, BOULDER TOE, AS PER PLAN

Refer to the Plan Sheet 27 for spatial location, notes, and details.

Submittals:

1. Prior to importing boulders, Contractor shall submit the supplier's flat sheet that details the size and material of the proposed boulders to be installed to the City for approval.
2. Prior to importing #3 aggregate, Contractor shall submit the supplier's flat sheet that details the size and material of the proposed aggregate to be installed to the City for approval.
3. Prior to importing filter fabric, Contractor shall submit the supplier's flat sheet that details the size and material of the proposed filter fabric to be installed to the City for approval.

#3 aggregate shall meet the requirements of Item 703.19. Filter fabric shall meet the requirements of Item 712.09 Type B. Boulders shall be quarry or field stone that is durable limestone, dolomite, granite, or sandstone of sufficient hardness to resist weathering and shall be free of shale, cracks, and other defects. Boulders shall have dimensions in accordance with the requirements given on the plans. The voids between the boulders shall be infilled with #3 stone. Plan quantities assume a 30% void ratio in the boulder toe. Recycled concrete is not permitted for use as rock channel protection on this project. All imported aggregate shall be washed before being imported to the project site. The cost of all labor, equipment, expenses, and materials associated with the installation of the boulder toe as detailed in the plans shall be included in the price bid for Item Spec, Boulder Toe, As Per Plan.

ITEM SPEC, ANCHOR LOG, AS PER PLAN

Refer to the Plan Sheets 38 through 41 for spatial location, notes, and details.

Submittals:

1. Prior to installing harvested anchor logs, Contractor shall submit the source, size, and species of anchor log planned to be installed to the City for approval.

Logs shall be free of rot and decay. It is assumed that 100% of the woody material needed for this item is available on site. Harvesting, processing, and stockpiling of woody material from trees marked for removal as indicated on Plan Sheet 31 shall be incidental to this item.

The cost of all labor, equipment, expenses, and materials associated with the installation of the structure as detailed in the Plans shall be included in the price bid for Item Spec, Anchor Log, As Per Plan.

ITEM SPEC, HEADWATER CHANNEL MATRIX, AS PER PLAN

Refer to the Plan Sheets 38 through 41 for spatial location, notes, and details.

Submittals:

1. Prior to importing 4— to 6—inch fieldstone, Contractor shall submit the supplier's flat sheet that details the size and material of the proposed aggregate to be installed to the City for approval.
2. Prior to installation of brush, Contractor shall submit the species of brush being used in the headwater channel matrix to the City for approval.
3. Prior to installation of the headwater channel matrix, Contractor shall submit the headwater channel matrix as detailed on Plan Sheet 39 and shall receive approval from the City prior to installation.

Brush shall be free of rot and decay. Brush shall be harvested from felled trees during clearing and grubbing. It is assumed that 100% of brush is available on—site. Harvesting of brush is incidental to this item. The imported 4— to 6—inch fieldstone shall be of durable limestone, dolomite, granite, or sandstone of sufficient hardness to resist weathering and shall be free of shale, cracks and other defects. Slag will be rejected. Aggregate dimensions shall be in accordance with the requirements given on the plans. All imported aggregate shall be washed before being imported to the Project Site. Gravel shall be harvested from Unnamed Tributary 1 to Tributary 1 where fill is planned and from the over excavation required to install the anchor logs along Tributary 1. Soil shall be sourced from laying back the banks along Tributary 1 and over excavation to place rock channel protection for the outfall.

Stockpiling and mixing of the headwater channel matrix is incidental to this item. The cost of all labor, equipment, expenses, and materials associated with the installation of the structure as detailed in the plans shall be included in the price bid for Item Spec, Headwater Channel, As Per Plan.

ITEM SPEC, MAILBOX REMOVED AND RESET, AS PER PLAN

Contractor shall remove the existing mailbox at the location indicated on Sheet 29 and safely store the mailbox for reinstallation following construction. The mailbox shall be reset by the Contractor at the existing location. This work shall consist of furnishing and erecting mailbox supports and any associated mounting hardware in accordance with plan details, and attaching an Owner—supplied mailbox at the existing location.

Wood posts shall be nominal 4 inches by 4 inches square or 4.5 inches diameter round, and conform to 710.14. Support arms shall be a decorative diagonal arm support. The Contractor shall submit a shop drawing of the proposed mailbox support to the City for approval, prior to ordering.

All hardware including but not limited to plates, screws, bolts, and etc. shall be commercial—grade galvanized steel.

Posts shall be set per the first paragraph of 606.03, and shall in no instance be encased in concrete.

Support hardware shall accommodate either a single or a double mailbox installation, and no more than two boxes may be mounted on a single post.

The mailbox shall be securely and neatly attached by the Contractor to the new support. The Contractor shall furnish all necessary attachment hardware (nuts, bolts, plates, spacers, and washers) as necessary to accommodate the complete installation.

In the absence of a new box supplied by the owner, the Contractor shall salvage the existing box and place it on the new support. Due care shall be exercised in such an operation, and the Contractor shall be responsible for repairing or replacing any box damaged by improper handling on his part, as judged by the Engineer.

The Contractor shall be responsible for coordinating with the local Post Master regarding the timing of the movement or any mailbox to a new location.

The cost of all labor, equipment, and materials associated with this work shall be included in the price bid for Item Spec, Mailbox Removed and Reset, As Per Plan.

ITEM SPEC, INSTALLATION AND REMOVAL OF TEMPORARY ACCESS, AS PER PLAN

This work includes all labor, equipment, and materials necessary for the Contractor to establish a temporary access route off of Lanham Court between the Lanham Court curb and the eastern edge of the existing stormwater basin, as shown on Sheet 29. The temporary access route is to be removed following the construction of Sites 25, 27, and 28. The site shall be restored to the final grade as shown in these plans. The temporary access route may include, but is not limited to, import/export of additional fill material, protection of existing structures, protection of proposed structures, protection of existing conduit, and protection of proposed conduit. The temporary access route shall be confined within the limits of disturbance as shown on these plans. The cost of all labor, equipment, expenses, and materials associated with the installation and removal of the temporary access route shall be included in the price bid for Item Spec, Installation and Removal of Temporary Access, As Per Plan.

ITEM SPEC, YARD DRAIN, AS PER PLAN

This work includes all labor, equipment, and materials necessary for the Contractor to install a yard drain per AA—S161 as shown on these plans. The cost of all labor, equipment, expenses, and materials associated with the installation of the yard drain shall be included in the price bid for Item Spec, Yard Drain, As Per Plan.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
GENERAL NOTES

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, Ohio 43054
Phone: 614.775.4500 Toll free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
04/97

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LEGEND

EXISTING

- Ex Major Contour
- Ex Minor Contour
- Ex Parcel Boundary
- Ex Flow Path
- Ex Edge of Water
- Ex Ordinary High Water Mark
- Ex 100-Year Elevation
- Ex Storm Pipe (STM)
- Ex Sanitary Pipe (SAN)
- Ex Water Main (WM)
- Ex Overhead Electric Line (OHE)
- Ex Guardrail
- Ex Edge of Pavement
- Ex Edge of Asphalt
- Ex Edge of Stone Path
- Ex Building
- Ex Brushline/Treeline
- Ex FEMA Floodway
- Ex FEMA 100-Year Floodplain
- Ex FEMA 500-Year Floodplain
- Ex Storm Manhole
- Ex Storm Catch Basin
- Ex Sanitary Manhole
- Ex Light Pole
- Ex Hydrant
- Ex Sign
- Ex Electric Box
- Ex Yard Drain
- Ex Riprap
- Ex Deciduous Tree
- Ex Evergreen Tree
- Ex Power Pole
- Ex Miscellaneous Pole
- Ex Guy Wire
- Ex Communications Box

PROPOSED

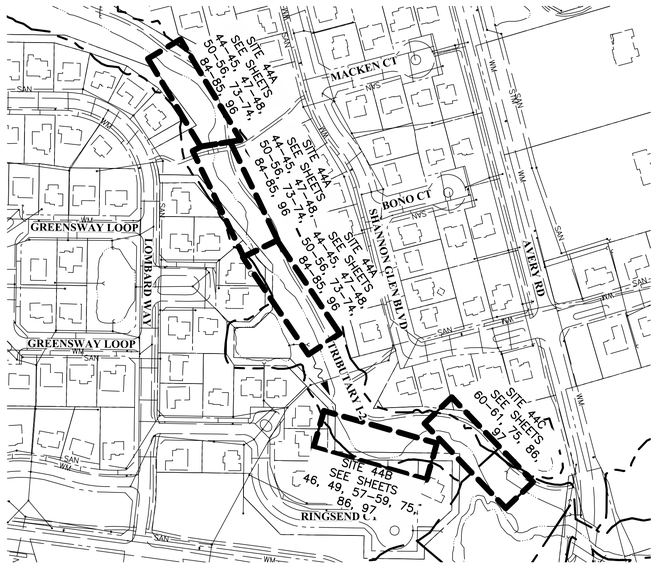
- Prop Major Contour
- Prop Minor Contour
- Prop Storm Pipe (STM)
- Prop Yard Drain
- Prop RCP

TEMPORARY

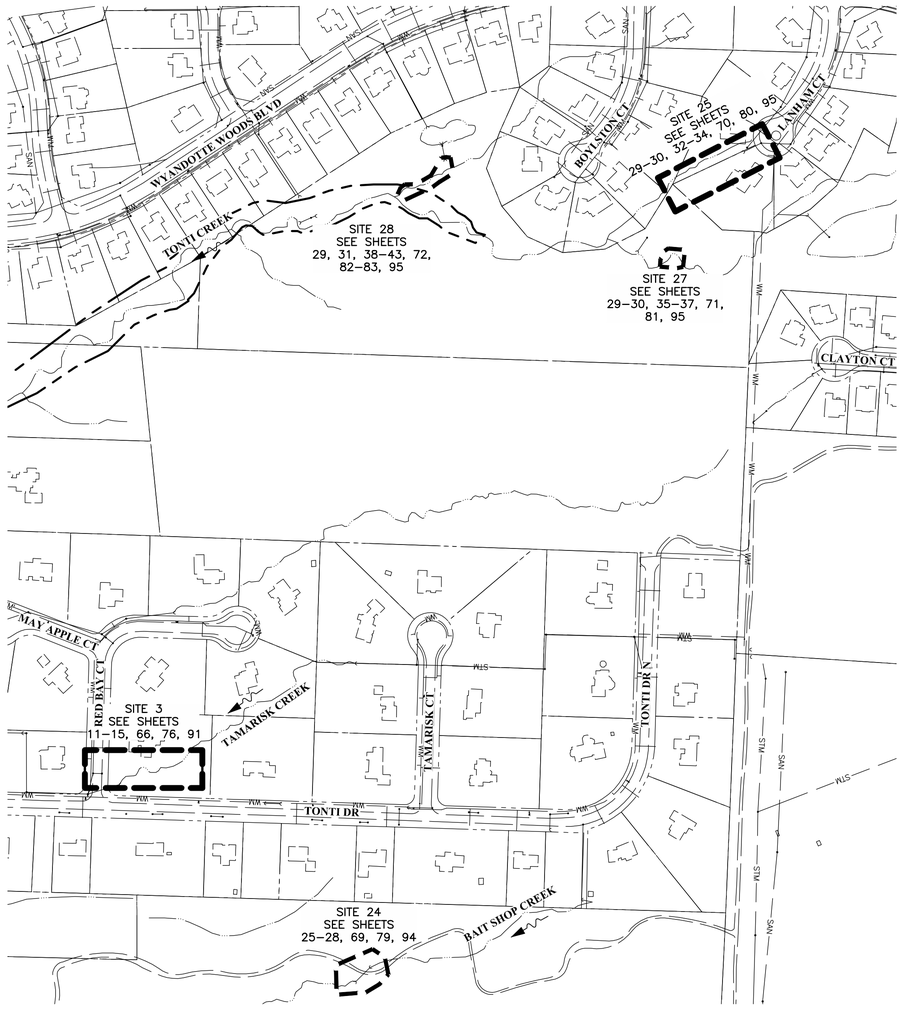
- Limit of Disturbance
- Temp Construction Fence/Tree Protection Fence
- Compost Filter Sock (CS)
- Temp Staging Area
- Timber Matting

ABREVIATIONS

Approx	Approximate	Prop	Proposed
CB	Catch Basin	PP	Plastic Pipe
℄	Centerline	R&R	Remove and Replace/Reconstruct
DND	Do Not Disturb	RCP	Rock Channel Protection
E/P	Edge of Pavement	San	Sanitary
Elec	Electric	Sta	Station
Elev	Elevation	Stm	Storm
Ex	Existing	TBR	To Be Removed
FH	Fire Hydrant	TBRLBO	To Be Relocated By Others
Inv	Invert	Temp	Temporary
Irrg	Irrigation	Typ	Typical
Max	Maximum	Wat	Water
Min	Minimum	WM	Water Meter
OHWM	Ordinary High Water Mark	WV	Water Valve

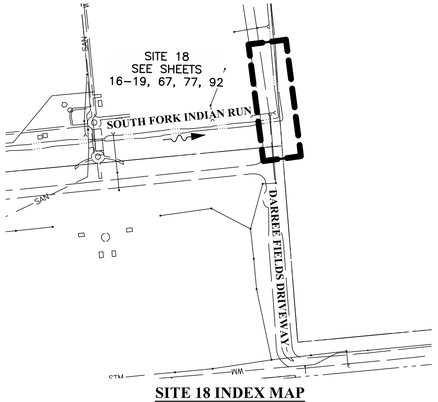


SITE 44 INDEX MAP
Scale : 1" = 200'

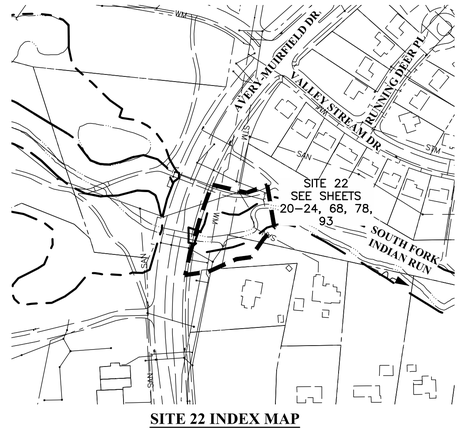


SITES 3, 24, 25, 27 & 28 INDEX MAP
Scale : 1" = 200'

GRAPHIC SCALE
0 100 200 400
1 inch = 200 feet



SITE 18 INDEX MAP
Scale : 1" = 200'



SITE 22 INDEX MAP
Scale : 1" = 200'

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
INDEX MAP

EMHT
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

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
05/97

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LIST OF QUANTITIES

A. Site 3

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Embankment (Placing Stockpiled Material), As Per Plan	20	CY
203	Excavation (Stockpiled), As Per Plan	20	CY
203	Excavation (To Haul Offsite), As Per Plan	70	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Bank Stabilization)	50	CY
601	Rock Channel Protection, Type D with Aggregate Filter, As Per Plan (Bank Stabilization)	2	CY
609	Remove and Replace Concrete Curb and Gutter, As Per Plan	20	LF
611	6" Conduit, Type E	15	FT
614	Maintaining Traffic	1	LS
614	Law Enforcement Officer with Patrol Car	12	HR
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	40	CY
659	Seeding and Mulching, Zone 2, As Per Plan	300	SY
659	Repair Seeding and Mulching, Zone 2	60	SY
660	Sodding Staked	300	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	15	EA
661	Bare Root Trees, 18" Ht., As Per Plan	15	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	5	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	5	EA
670	Slope Erosion Protection Mat, As Per Plan	240	SY
SPEC	Yard Drain, As Per Plan	2	EA
SPEC	Dewatering, As Per Plan	1	LS
SPEC	Digitial Video Recording	1	LS
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

B. Site 18

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Excavation (To Haul Offsite), As Per Plan	160	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Bank Stabilization)	140	CY
614	Maintaining Traffic	1	LS
614	Law Enforcement Officer with Patrol Car	16	HR
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	30	CY
659	Seeding and Mulching, Class Special, As Per Plan	1,040	SY
658	Seeding and Mulching, Zone 2, As Per Plan	100	SY
659	Seeding and Mulching, Zone 3, As Per Plan	500	SY
659	Repair Seeding and Mulching, Zones 2 and 3	120	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	25	EA
661	Bare Root Trees, 18" Ht., As Per Plan	25	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	5	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	5	EA
670	Slope Erosion Protection Mat, As Per Plan	250	SY
SPEC	Digital Video Recording	1	LS
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS
SPEC	Dewatering, As Per Plan	1	LF

C. Site 22

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Excavation (To Haul Offsite), As Per Plan	16	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
253	Spot Full Depth Asphalt Pavement Repair, Driveway, As Per Plan	150	SY
614	Maintaining Traffic	1	LS
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	15	CY
659	Seeding and Mulching, Zone 2, As Per Plan	172	SY
659	Seeding and Mulching, Zone 3, As Per Plan	1,152	SY
659	Repair Seeding and Mulching, Zones 2 and 3	105	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	56	EA
661	Bare Root Trees, 18" Ht., As Per Plan	56	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	6	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	6	EA
661	Live Stake, 24" Ht. As Per Plan	140	EA
670	Slope Erosion Protection Mat, As Per Plan	86	SY
SPEC	Digital Video Recording, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

D. Site 24

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
202	Pipe Removed, Under 24"	1.5	FT
207	Erosion and Sediment Control, As Per Plan	1	LS
253	Spot Full Depth Asphalt Pavement Repair, Walking Trail, As Per Plan	251	SY
304	Aggregate Base, Walking Trail Repairs, As Per Plan	201	CY
601	Rock Channel Protection, Type B with Aggregate Filter, As Per Plan (Outfall Protection)	5	CY
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Outfall Protection)	1	CY
614	Maintaining Traffic	1	LS
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
659	Seeding and Mulching, Zone 2, As Per Plan	91	SY
661	Deciduous Shrub, No. 5 Cont., As Per Plan	4	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	4	EA
670	Slope Erosion Protection Mat, As Per Plan	19	SY
SPEC	Rock Toe, As Per Plan	1	LS
SPEC	Digital Video Recording, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

LIST OF QUANTITIES (cont.)

E. Site 25

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
202	Removal Misc.: Headwall Removed, As Per Plan	1	LS
203	Embankment (Placing Stockpiled Material), As Per Plan	70	CY
203	Excavation (Stockpiled), As Per Plan	70	CY
204	Excavation (To Haul Offsite), As Per Plan	110	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
253	Sidewalk Removed and Replaced (Concrete), As Per Plan	104	SY
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Outfall Protection)	9	CY
602	Concrete Masonry Includes Reinforcing	1	CY
604	Catch Basin AA-S134B	2	EA
604	Manhole AA-S102	1	EA
605	8" Unclassified Pipe Underdrains, As Per Plan	10	LF
609	Remove and Replace Concrete Curb & Gutter (Including Inlet), As Per Plan	30	LF
614	Maintaining Traffic	1	LS
614	Law Enforcement Officer with Patrol Car	4	HR
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	100	CY
659	Seeding and Mulching, Class 4A, As Per Plan	490	SY
659	Seeding and Mulching, Retention Basin Mix, As Per Plan	1,900	SY
659	Repair Seeding and Mulching, Class 4A and Retention Basin Mix	500	SY
660	Sodding Staked	100	SY
670	Turf Reinforcement Mat, As Per Plan	580	SY
670	Slope Erosion Protection Mat, As Per Plan	900	SY
901	15" Storm Pipe, with Type I Bedding	15	FT
901	24" Storm Pipe, with Type I Bedding	190	FT
SPEC	Digital Video Recording	1	LS
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS
SPEC	Trash Rack for Catch Basin Window	2	EA
SPEC	Yard Drain, As Per Plan	1	EA
SPEC	Installation and Removal of Temporary Access, As Per Plan	1	LS
SPEC	Mailbox Removed and Reset, As Per Plan	1	EA

F. Site 27

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Excavation (Stockpile), As Per Plan	22	CY
203	Embankment (Placing Stockpiled Material), As Per Plan	22	CY
203	Embankment (Placing Importing Material), As Per Plan	35	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
601	Rock Channel Protection, Type B with Filter, As Per Plan (Outfall Protection)	33	CY
601	Rock Channel Protection, Type B with Aggregate Filter, As Per Plan (Rock Toe)	34	CY
614	Maintaining Traffic	1	LS
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	77	CY
659	Seeding and Mulching, Zone 2, As Per Plan	34	SY
659	Seeding and Mulching, Retention Basin, As Per Plan	423	SY
661	Deciduous Shrub, No. 5 Cont., As Per Plan	2	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	1	EA
670	Slope Erosion Protection Mat, As Per Plan	54	SY
670	Turf Reinforcement Mat, As Per Plan	80	SY
SPEC	Digital Video Recording	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

G. Site 28

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Excavation (Stockpile), As Per Plan	41	CY
203	Excavation (To Haul Offsite), As Per Plan	20	CY
203	Embankment (Placing Stockpiled Material), As Per Plan	41	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
601	Rock Channel Protection, Type B with Filter, As Per Plan (Basin Outfall, Rock Ramp)	64	CY
623	Construction Layout Stakes	1	LS
614	Maintaining Traffic	1	LS
624	Mobilization	1	LS
653	Topsoil Stockpiled and Placed, As Per Plan	30	CY
659	Seeding and Mulching, Zone 2, As Per Plan	1,854	SY
659	Seeding and Mulching, Zone B, As Per Plan	32	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	44	EA
661	Bare Root Trees, 18" Ht., As Per Plan	116	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	8	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	8	EA
661	Live Stake, 24" Ht., As Per Plan	609	EA
670	Slope Erosion Protection Mat, As Per Plan	510	SY
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Digital Video Recording	1	LS
SPEC	Record Drawing, As Per Plan	1	LS
SPEC	Anchor Log, As Per Plan	11	EA
SPEC	Headwater Channel, As Per Plan	119	LF

LIST OF QUANTITIES (cont.)

H. Site 44A

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
202	Pipe Removed, Under 24" (Cutting Protruding Drain Tiles to Prop Grade)	30	LF
203	Excavation (To Haul Offsite), As Per Plan	440	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
253	Sidewalk Removed and Replaced (Concrete), As Per Plan	13	SY
253	Spot Full Depth Asphalt Pavement Repair, Trail, As Per Plan	20	SY
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Bank Stabilization)	270	CY
609	Remove and Replace Straight Curb, As Per Plan	20	LF
614	Maintaining Traffic	1	LS
614	Law Enforcement Officer with Patrol Car	16	HR
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	140	CY
659	Seeding and Mulching, Class Special, As Per Plan	2,000	SY
659	Seeding and Mulching, Zone 2, As Per Plan	800	SY
659	Seeding and Mulching, Zone 3, As Per Plan	700	SY
659	Repair Seeding and Mulching, Zones 2 and 3	860	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	65	EA
661	Bare Root Trees, 18" Ht., As Per Plan	65	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	5	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	5	EA
661	Willow Live Stake, 24" Ht., As Per Plan	630	EA
670	Slope Erosion Protection Mat, As Per Plan	1,410	SY
SPEC	Yard Drain, As Per Plan	3	EA
SPEC	Dewatering, As Per Plan	1	LS
SPEC	Digitial Video Recording	1	LS
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

I. Site 44B&C

Item No.	Description	Quantity	Units
201	Clearing and Grubbing, As Per Plan	1	LS
203	Excavation (To Haul Offsite), As Per Plan	180	CY
207	Erosion and Sediment Control, As Per Plan	1	LS
253	Sidewalk Removed and Replaced (Concrete)	10	CY
601	Rock Channel Protection, Type C with Aggregate Filter, As Per Plan (Bank Stabilization)	200	CY
609	Remove and Replace Concrete Curb & Gutter	21	LF
614	Maintaining Traffic	1	LS
614	Law Enforcement Officer with Patrol Car	4	HR
623	Construction Layout Stakes	1	LS
624	Mobilization	1	LS
653	Topsoil Furnished and Placed, As Per Plan	60	CY
659	Seeding and Mulching, Class Special, As Per Plan	330	SY
659	Seeding and Mulching, Zone 2, As Per Plan	300	SY
659	Seeding and Mulching, Zone 3, As Per Plan	1,330	SY
659	Repair Seeding and Mulching, Zones 2 and 3	326	SY
661	Bare Root Shrubs, 18" Ht., As Per Plan	65	EA
661	Bare Root Trees, 18" Ht., As Per Plan	65	EA
661	Deciduous Shrub, No. 5 Cont., As Per Plan	5	EA
661	Deciduous Tree, No. 15 Cont., As Per Plan	5	EA
661	Willow Live Stake, 24" Ht., As Per Plan	80	LF
670	Slope Erosion Protection Mat, As Per Plan	640	SY
SPEC	Dewatering, As Per Plan	1	LS
SPEC	Digitial Video Recording	1	LS
SPEC	Grade Checking, As Per Plan	1	LS
SPEC	Record Drawing, As Per Plan	1	LS

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
ESTIMATION OF QUANTITIES

EMH&T
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

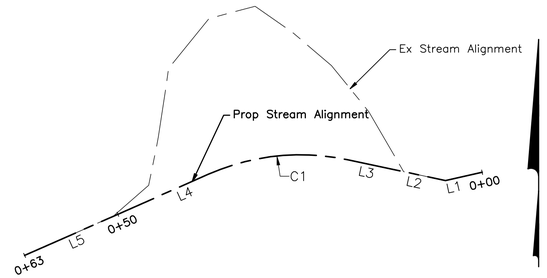
DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
06/97

K:\2022\0903\Dwg\04Sheets\PlanView\2 Estimation of Quantities.dgn Last Saved By: alexander 6/20/2025 9:12 AM (No Xrefs)
K:\2022\0903\Dwg\04Sheets\PlanView\2 Estimation of Quantities.dgn Last Saved By: alexander 6/20/2025 9:12 AM Last Plotted By: alexander 6/20/2025 9:12 AM (No Xrefs)



SITE 3 PROP ALIGNMENT GEOMETRY DATA TABLE

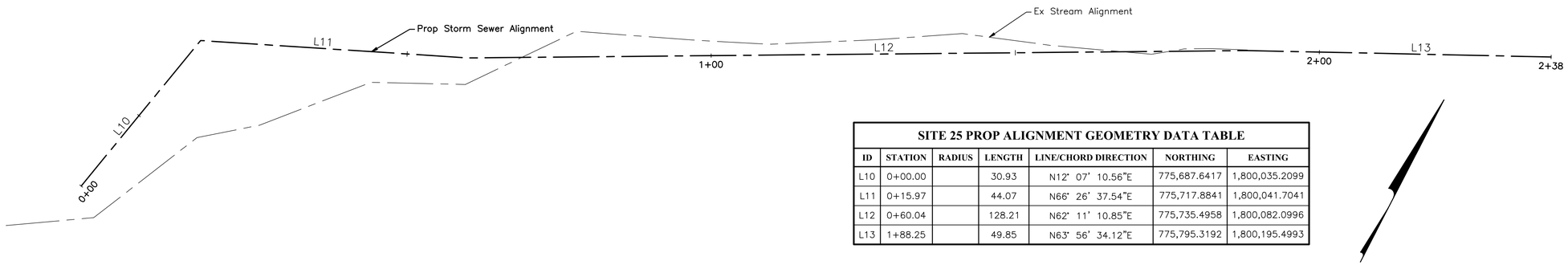
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L1	0+00.00		4.97	S77° 16' 21.29"W	774,155.9450	1,798,637.9820
L2	0+04.97		5.65	N78° 00' 51.31"W	774,154.8500	1,798,633.1340
L3	0+10.62		7.54	N78° 00' 51.31"W	774,156.0240	1,798,627.6040
C1	0+18.17	30.00	18.76	S84° 04' 10.87"W	774,157.5902	1,798,620.2267
L4	0+36.93		13.75	S66° 09' 13.06"W	774,155.6832	1,798,601.8680
L5	0+50.68		12.78	S66° 09' 13.06"W	774,150.1230	1,798,589.2890

SITE 3
(1"=10')

GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet



SITE 25 PROP ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L10	0+00.00		30.93	N12° 07' 10.56"E	775,687.6417	1,800,035.2099
L11	0+15.97		44.07	N66° 26' 37.54"E	775,717.8841	1,800,041.7041
L12	0+60.04		128.21	N62° 11' 10.85"E	775,735.4958	1,800,082.0996
L13	1+88.25		49.85	N63° 56' 34.12"E	775,795.3192	1,800,195.4993

SITE 25
(1"=10')

GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
HORIZONTAL CONTROL PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

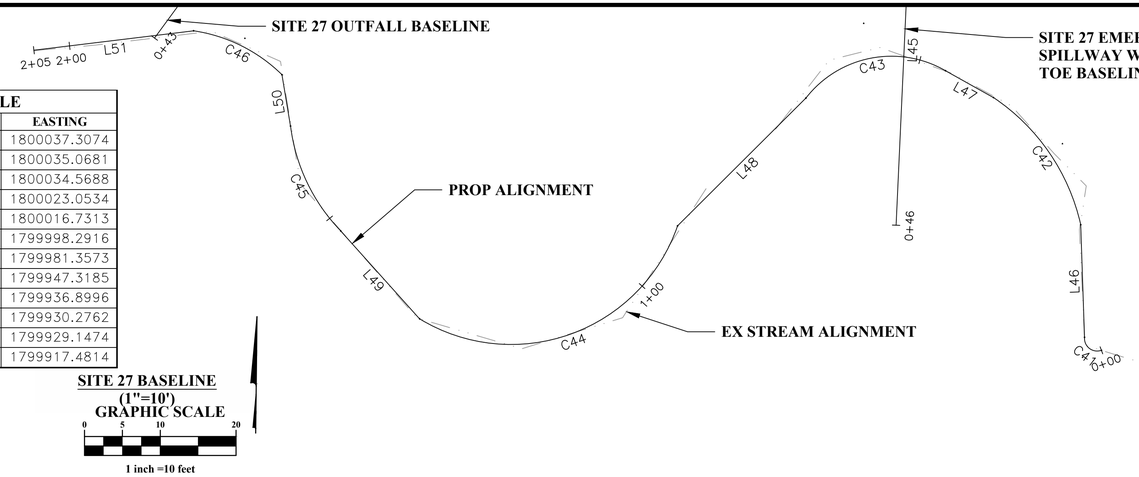
DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

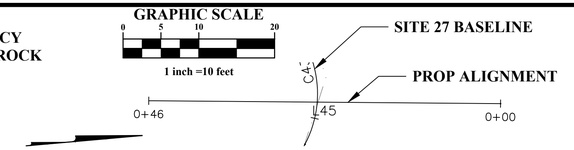
SHEET
07/97

K:\2022\0903\Dwg\05Streets\Plan\Year 2\06 Horizontal Control Plan.dgn Last Saved By: bascarello 6/12/2025 3:36 PM Last Plotted By: Bascarello Jaclyn 6/16/2025 3:36 PM (No Xrefs)



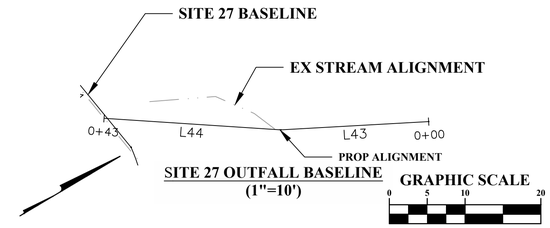
SITE 27 PROP ALIGNMENT GEOMETRY DATA TABLE						
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
C41	0+00.00	1.67	3.37	N52° 26' 17.21"W	775484.7143	1800037.3074
L46	0+03.37		14.86	N1° 55' 32.03"W	775486.4364	1800035.0681
C42	0+18.23	27.45	20.85	N34° 27' 48.45"W	775501.2866	1800034.5688
L47	0+39.08		7.24	N60° 46' 48.39"W	775518 0646	1800023.0534
C43	0+46.32	14.27	20.51	S78° 55' 07.66"W	775521.6007	1800016.7313
L48	0+66.83		23.89	S45° 08' 15.13"W	775517.9893	1799998.2916
C44	0+90.72	23.24	41.47	S70° 10' 06.71"W	775501.1361	1799981.3573
L49	1+32.19		15.59	N41° 55' 19.99"W	775488.8603	1799947.3185
C45	1+47.79	24.19	15.62	N25° 34' 05.53"W	775500.4632	1799936.8996
L50	1+63.40		6.86	N9° 27' 53.67"W	775514.3069	1799930.2762
C46	1+70.27	20.98	13.24	N63° 35' 27.71"W	775521.0782	1799929.1474
L51	1+83.51		21.23	S83° 04' 43.77"W	775526.8715	1799917.4814

SITE 27 BASELINE
(1"=10')
GRAPHIC SCALE
0 5 10 20
1 inch =10 feet

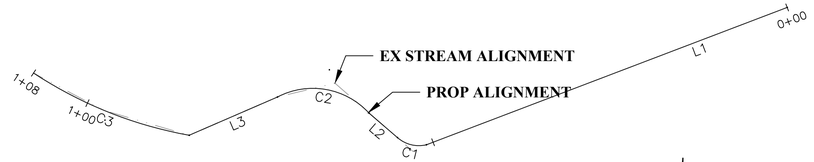


SITE 27 EMERGENCY SPILLWAY WITH ROCK TOE BASELINE
(1"=10')

SITE 27 EMERGENCY SPILLWAY WITH ROCK TOE BASELINE PROP ALIGNMENT GEOMETRY DATA TABLE						
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L45	0+00.00		46.43	S2° 37' 08.78"W	775547.5950	1800012.3290

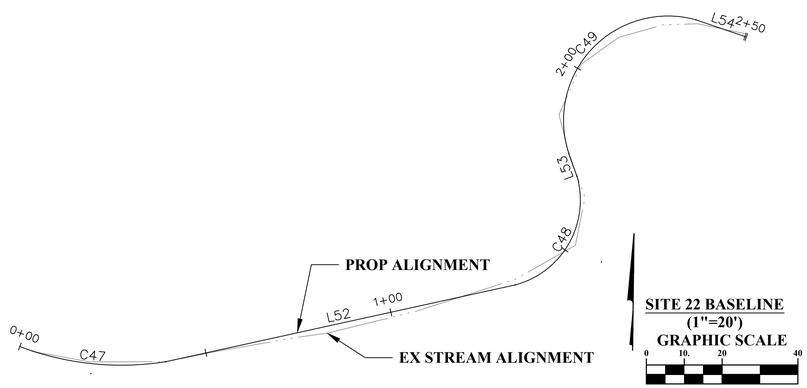


SITE 27 OUTFALL PROP ALIGNMENT GEOMETRY DATA TABLE						
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L43	0+00.00		19.55	S29° 13' 07.52"W	775561.8342	1799935.6671
L44	0+19.55		23.36	S36° 11' 03.19"W	775544.7726	1799926.1244



SITE 24 PROP ALIGNMENT GEOMETRY DATA TABLE						
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L1	0+00.00		50.95	S46° 14' 20.65"W	773640.3500	1799210.1070
C1	0+50.95	4.25	4.09	S81° 01' 35.57"W	773605.1129	1799173.3119
L2	0+55.04		4.95	N72° 11' 01.25"W	773604.4988	1799169.4231
C2	0+59.99	10.07	13.21	S77° 01' 30.95"W	773606.0135	1799164.7100
L3	0+73.20		12.69	S43° 39' 42.09"W	773603.2560	1799152.7420
C3	0+85.89	54.86	22.27	S88° 52' 50.92"W	773594.0790	1799143.9840

SITE 24 BASELINE
(1"=10')
GRAPHIC SCALE
0 5 10 20
1 inch =10 feet



SITE 22 BASELINE
(1"=20')
GRAPHIC SCALE
0 10. 20 40
1 inch = 20 feet

SITE 22 PROP ALIGNMENT GEOMETRY DATA TABLE						
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
C47	0+00.00	75.32	39.18	S84° 04' 17.33"E	768653.4962	1783861.9047
L52	0+39.18		94.43	N77° 36' 22.39"E	768649 4950	1783900.4360
C48	1+33.61	23.14	36.74	N29° 34' 19.39"E	768669.7619	1783992.6630
L53	1+70.34		6.35	N19° 32' 33.00"W	768698.4613	1784008.9480
C49	1+76.69	27.59	59.59	N43° 30' 22.72"E	768704.4452	1784006.8240
L54	2+36.29		14.10	S71° 09' 42.91"E	768739.7405	1784040.3254

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
HORIZONTAL CONTROL PLAN

Stantec

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

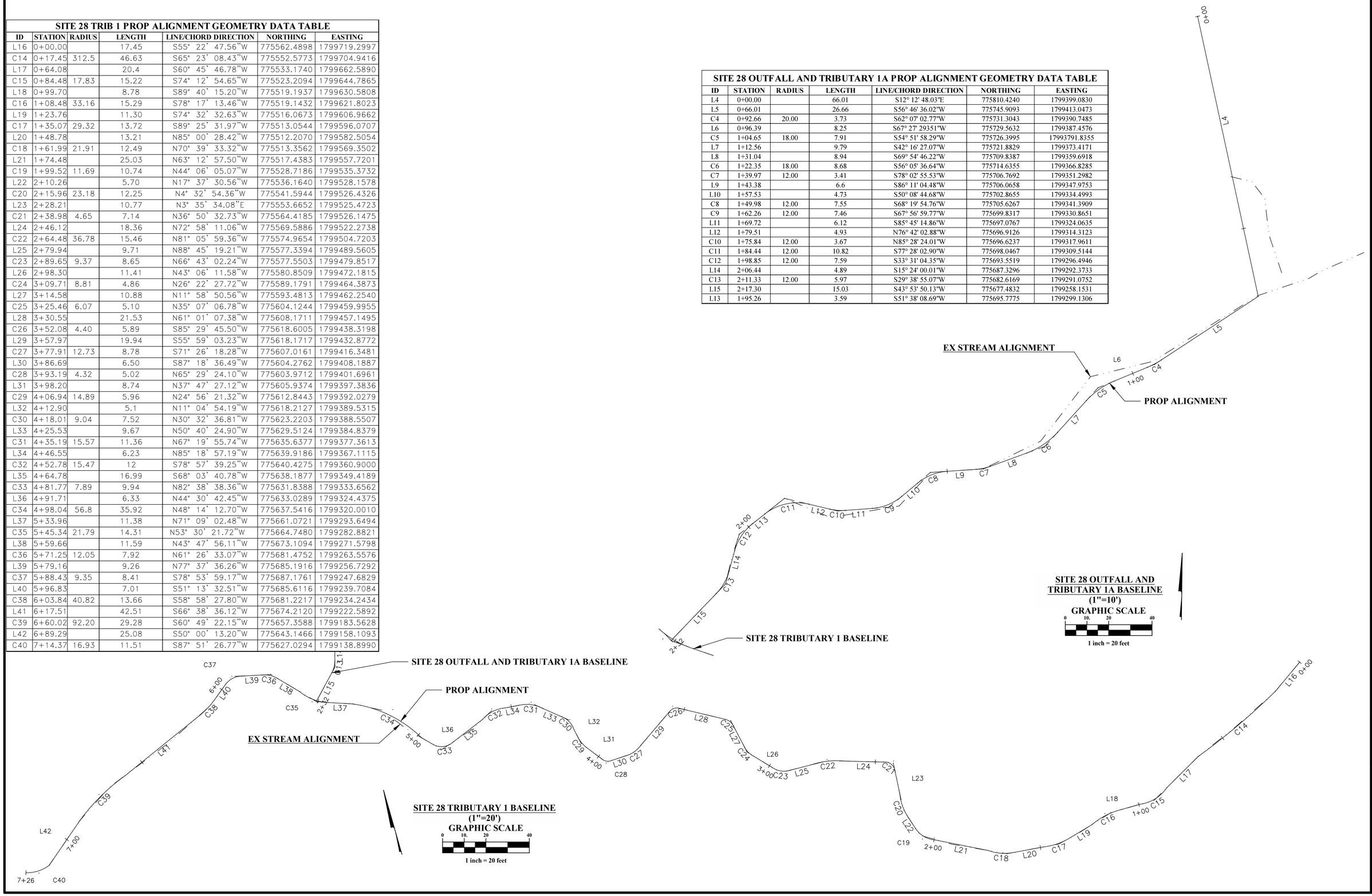
SHEET
08/97

SITE 28 TRIB 1 PROP ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L16	0+00.00		17.45	S55° 22' 47.56"W	775562.4898	1799719.2997
C14	0+17.45	312.5	46.63	S65° 23' 08.43"W	775552.5773	1799704.9416
L17	0+64.08		20.4	S60° 45' 46.78"W	775533.1740	1799662.5890
C15	0+84.48	17.83	15.22	S74° 12' 54.65"W	775523.2094	1799644.7865
L18	0+99.70		8.78	S89° 40' 15.20"W	775519.1937	1799630.5808
C16	1+08.48	33.16	15.29	S78° 17' 13.46"W	775519.1432	1799621.8023
L19	1+23.76		11.30	S74° 32' 32.63"W	775516.0673	1799606.9662
C17	1+35.07	29.32	13.72	S89° 25' 31.97"W	775513.0544	1799596.0707
L20	1+48.78		13.21	N85° 00' 28.42"W	775512.2070	1799582.5054
C18	1+61.99	21.91	12.49	N70° 39' 33.32"W	775513.3562	1799569.3502
L21	1+74.48		25.03	N63° 12' 57.50"W	775517.4383	1799557.7201
C19	1+99.52	11.69	10.74	N44° 06' 05.07"W	775528.7186	1799535.3732
L22	2+10.26		5.70	N17° 37' 30.56"W	775536.1640	1799528.1578
C20	2+15.96	23.18	12.25	N4° 32' 54.36"W	775541.5944	1799526.4326
L23	2+28.21		10.77	N3° 35' 34.08"E	775553.6652	1799525.4723
C21	2+38.98	4.65	7.14	N36° 50' 32.73"W	775564.4185	1799526.1475
L24	2+46.12		18.36	N72° 58' 11.06"W	775569.5886	1799522.2738
C22	2+64.48	36.78	15.46	N81° 05' 59.36"W	775574.9654	1799504.7203
L25	2+79.94		9.71	N88° 45' 19.21"W	775577.3394	1799489.5605
C23	2+89.65	9.37	8.65	N66° 43' 02.24"W	775577.5503	1799479.8517
L26	2+98.30		11.41	N43° 06' 11.58"W	775580.8509	1799472.1815
C24	3+09.71	8.81	4.86	N26° 22' 27.72"W	775589.1791	1799464.3873
L27	3+14.58		10.88	N11° 58' 50.56"W	775593.4813	1799462.2540
C25	3+25.46	6.07	5.10	N35° 07' 06.78"W	775604.1244	1799459.9955
L28	3+30.55		21.53	N61° 01' 07.38"W	775608.1711	1799457.1495
C26	3+52.08	4.40	5.89	S85° 29' 45.50"W	775618.6005	1799438.3198
L29	3+57.97		19.94	S55° 59' 03.23"W	775618.1717	1799432.8772
C27	3+77.91	12.73	8.78	S71° 26' 18.28"W	775607.0161	1799416.3481
L30	3+86.69		6.50	S87° 18' 36.49"W	775604.2762	1799408.1887
C28	3+93.19	4.32	5.02	N65° 29' 24.10"W	775603.9712	1799401.6961
L31	3+98.20		8.74	N37° 47' 27.12"W	775605.9374	1799397.3836
C29	4+06.94	14.89	5.96	N24° 56' 21.32"W	775612.8443	1799392.0279
L32	4+12.90		5.1	N11° 04' 54.19"W	775618.2127	1799389.5315
C30	4+18.01	9.04	7.52	N30° 32' 36.81"W	775623.2203	1799388.5507
L33	4+25.53		9.67	N50° 40' 24.90"W	775629.5124	1799384.8379
C31	4+35.19	15.57	11.36	N67° 19' 55.74"W	775635.6377	1799377.3613
L34	4+46.55		6.23	N85° 18' 57.19"W	775639.9186	1799367.1115
C32	4+52.78	15.47	12	S78° 57' 39.25"W	775640.4275	1799360.9000
L35	4+64.78		16.99	S68° 03' 40.78"W	775638.1877	1799349.4189
C33	4+81.77	7.89	9.94	N82° 38' 38.36"W	775631.8388	1799333.6562
L36	4+91.71		6.33	N44° 30' 42.45"W	775633.0289	1799324.4375
C34	4+98.04	56.8	35.92	N48° 14' 12.70"W	775637.5416	1799320.0010
L37	5+33.96		11.38	N71° 09' 02.48"W	775661.0721	1799293.6494
C35	5+45.34	21.79	14.31	N53° 30' 21.72"W	775664.7480	1799282.8821
L38	5+59.66		11.59	N43° 47' 56.11"W	775673.1094	1799271.5798
C36	5+71.25	12.05	7.92	N61° 26' 33.07"W	775681.4752	1799263.5576
L39	5+79.16		9.26	N77° 37' 36.26"W	775685.1916	1799256.7292
C37	5+88.43	9.35	8.41	S78° 53' 59.17"W	775687.1761	1799247.6829
L40	5+96.83		7.01	S51° 13' 32.51"W	775685.6116	1799239.7084
C38	6+03.84	40.82	13.66	S58° 58' 27.80"W	775681.2217	1799234.2434
L41	6+17.51		42.51	S66° 38' 36.12"W	775674.2120	1799222.5892
C39	6+60.02	92.20	29.28	S60° 49' 22.15"W	775657.3588	1799183.5628
L42	6+89.29		25.08	S50° 00' 13.20"W	775643.1466	1799158.1093
C40	7+14.37	16.93	11.51	S87° 51' 26.77"W	775627.0294	1799138.8990

SITE 28 OUTFALL AND TRIBUTARY 1A PROP ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L4	0+00.00		66.01	S12° 12' 48.03"E	775810.4240	1799399.0830
L5	0+66.01		26.66	S56° 46' 36.02"W	775745.9093	1799413.0473
C4	0+92.66	20.00	3.73	S62° 07' 02.77"W	775731.3043	1799390.7485
L6	0+96.39		8.25	S67° 27' 29351"W	775729.5632	1799387.4576
C5	1+04.65	18.00	7.91	S54° 51' 58.29"W	775726.3995	17993791.8355
L7	1+12.56		9.79	S42° 16' 27.07"W	775721.8829	1799373.4171
L8	1+31.04		8.94	S69° 54' 46.22"W	775709.8387	1799359.6918
C6	1+22.35	18.00	8.68	S56° 05' 36.64"W	775714.6355	1799366.8285
C7	1+39.97	12.00	3.41	S78° 02' 55.53"W	775706.7692	1799351.2982
L9	1+43.38		6.6	S86° 11' 04.48"W	775706.0658	1799347.9753
L10	1+57.53		4.73	S50° 08' 44.68"W	775702.8655	1799334.4993
C8	1+49.98	12.00	7.55	S68° 19' 54.76"W	775705.6267	1799341.3909
C9	1+62.26	12.00	7.46	S67° 56' 59.77"W	775699.8317	1799330.8651
L11	1+69.72		6.12	S85° 45' 14.86"W	775697.0767	1799324.0635
L12	1+79.51		4.93	N76° 42' 02.88"W	775696.9126	1799314.3123
C10	1+75.84	12.00	3.67	N85° 28' 24.01"W	775696.6237	1799317.9611
C11	1+84.44	12.00	10.82	S77° 28' 02.90"W	775698.0467	1799309.5144
C12	1+98.85	12.00	7.59	S33° 31' 04.35"W	775693.5519	1799296.4946
L14	2+06.44		4.89	S15° 24' 00.01"W	775687.3296	1799292.3733
C13	2+11.33	12.00	5.97	S29° 38' 55.07"W	775682.6169	1799291.0752
L15	2+17.30		15.03	S43° 53' 50.13"W	775677.4832	1799258.1531
L13	1+95.26		3.59	S51° 38' 08.69"W	775695.7775	1799299.1306



REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
HORIZONTAL CONTROL PLAN

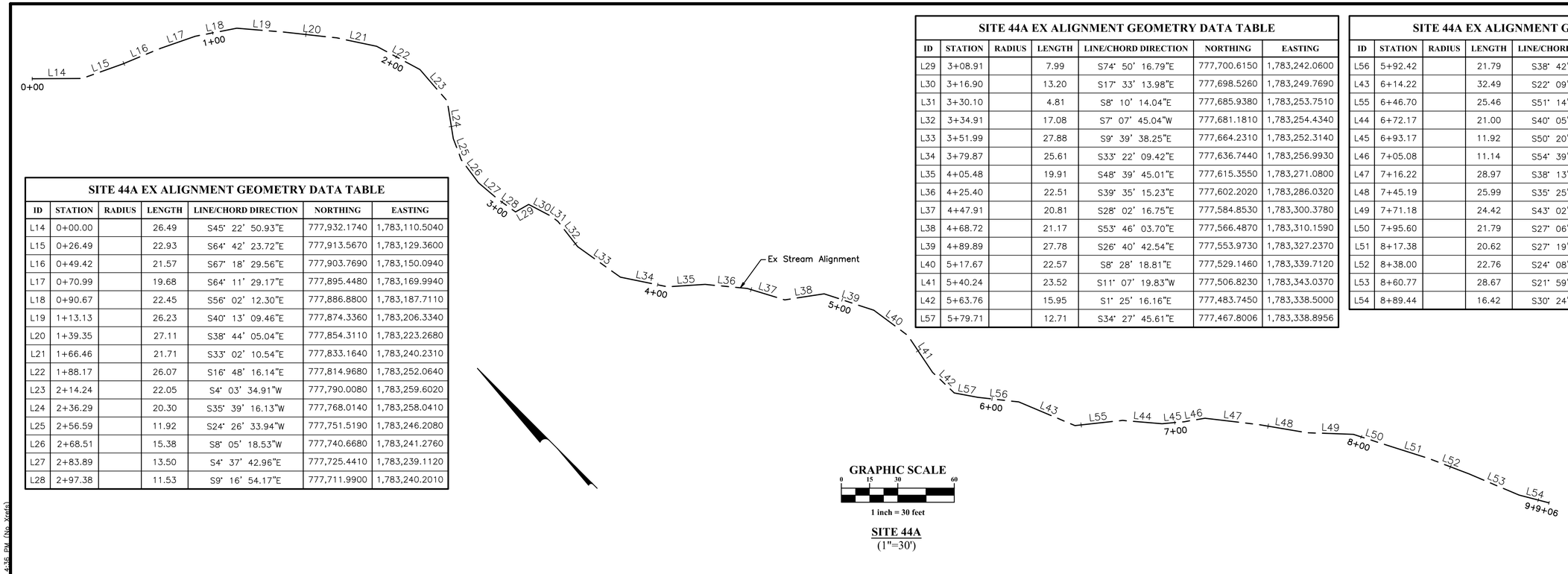
Stantec

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
09/97



GRAPHIC SCALE

0 15 30 60

1 inch = 30 feet

SITE 44A
(1"=30')

SITE 44A EX ALIGNMENT GEOMETRY DATA TABLE

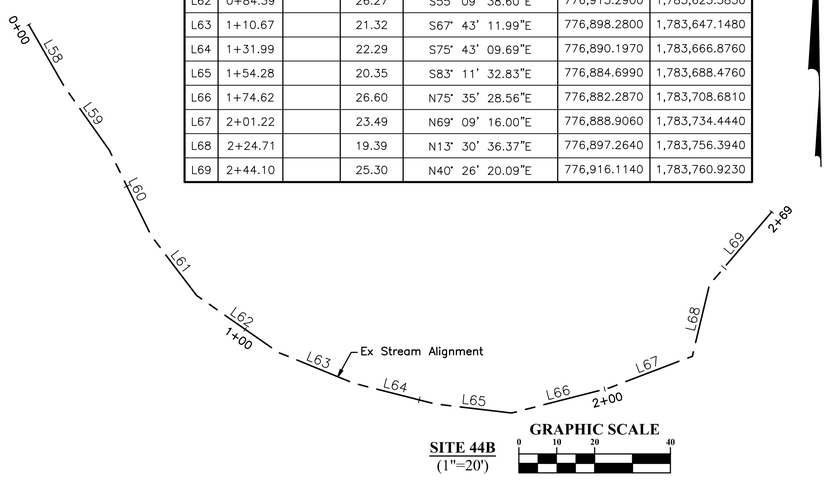
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L14	0+00.00		26.49	S45° 22' 50.93"E	777,932.1740	1,783,110.5040
L15	0+26.49		22.93	S64° 42' 23.72"E	777,913.5670	1,783,129.3600
L16	0+49.42		21.57	S67° 18' 29.56"E	777,903.7690	1,783,150.0940
L17	0+70.99		19.68	S64° 11' 29.17"E	777,895.4480	1,783,169.9940
L18	0+90.67		22.45	S56° 02' 12.30"E	777,886.8800	1,783,187.7110
L19	1+13.13		26.23	S40° 13' 09.46"E	777,874.3360	1,783,206.3340
L20	1+39.35		27.11	S38° 44' 05.04"E	777,854.3110	1,783,223.2680
L21	1+66.46		21.71	S33° 02' 10.54"E	777,833.1640	1,783,240.2310
L22	1+88.17		26.07	S16° 48' 16.14"E	777,814.9680	1,783,252.0640
L23	2+14.24		22.05	S4° 03' 34.91"W	777,790.0080	1,783,259.6020
L24	2+36.29		20.30	S35° 39' 16.13"W	777,768.0140	1,783,258.0410
L25	2+56.59		11.92	S24° 26' 33.94"W	777,751.5190	1,783,246.2080
L26	2+68.51		15.38	S8° 05' 18.53"W	777,740.6680	1,783,241.2760
L27	2+83.89		13.50	S4° 37' 42.96"E	777,725.4410	1,783,239.1120
L28	2+97.38		11.53	S9° 16' 54.17"E	777,711.9900	1,783,240.2010

SITE 44A EX ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L29	3+08.91		7.99	S74° 50' 16.79"E	777,700.6150	1,783,242.0600
L30	3+16.90		13.20	S17° 33' 13.98"E	777,698.5260	1,783,249.7690
L31	3+30.10		4.81	S8° 10' 14.04"E	777,685.9380	1,783,253.7510
L32	3+34.91		17.08	S7° 07' 45.04"W	777,681.1810	1,783,254.4340
L33	3+51.99		27.88	S9° 39' 38.25"E	777,664.2310	1,783,252.3140
L34	3+79.87		25.61	S33° 22' 09.42"E	777,636.7440	1,783,256.9930
L35	4+05.48		19.91	S48° 39' 45.01"E	777,615.3550	1,783,271.0800
L36	4+25.40		22.51	S39° 35' 15.23"E	777,602.2020	1,783,286.0320
L37	4+47.91		20.81	S28° 02' 16.75"E	777,584.8530	1,783,300.3780
L38	4+68.72		21.17	S53° 46' 03.70"E	777,566.4870	1,783,310.1590
L39	4+89.89		27.78	S26° 40' 42.54"E	777,553.9730	1,783,327.2370
L40	5+17.67		22.57	S8° 28' 18.81"E	777,529.1460	1,783,339.7120
L41	5+40.24		23.52	S11° 07' 19.83"W	777,506.8230	1,783,343.0370
L42	5+63.76		15.95	S1° 25' 16.16"E	777,483.7450	1,783,338.5000
L57	5+79.71		12.71	S34° 27' 45.61"E	777,467.8006	1,783,338.8956

SITE 44A EX ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L56	5+92.42		21.79	S38° 42' 59.00"E	777,457.3181	1,783,346.0899
L43	6+14.22		32.49	S22° 09' 31.91"E	777,440.3149	1,783,359.7201
L55	6+46.70		25.46	S51° 14' 00.78"E	777,410.2273	1,783,371.9734
L44	6+72.17		21.00	S40° 05' 56.84"E	777,394.2826	1,783,391.8284
L45	6+93.17		11.92	S50° 20' 38.83"E	777,378.2195	1,783,405.3544
L46	7+05.08		11.14	S54° 39' 17.65"E	777,370.6146	1,783,414.5289
L47	7+16.22		28.97	S38° 13' 59.53"E	777,364.1729	1,783,423.6116
L48	7+45.19		25.99	S35° 25' 32.70"E	777,341.4185	1,783,441.5389
L49	7+71.18		24.42	S43° 02' 42.36"E	777,320.2401	1,783,456.6040
L50	7+95.60		21.79	S27° 06' 09.28"E	777,302.3940	1,783,473.2720
L51	8+17.38		20.62	S27° 19' 27.34"E	777,283.0010	1,783,483.1970
L52	8+38.00		22.76	S24° 08' 38.25"E	777,264.6800	1,783,492.6630
L53	8+60.77		28.67	S21° 59' 57.06"E	777,243.9100	1,783,501.9730
L54	8+89.44		16.42	S30° 24' 44.84"E	777,217.3240	1,783,512.7140



SITE 44B EX ALIGNMENT GEOMETRY DATA TABLE

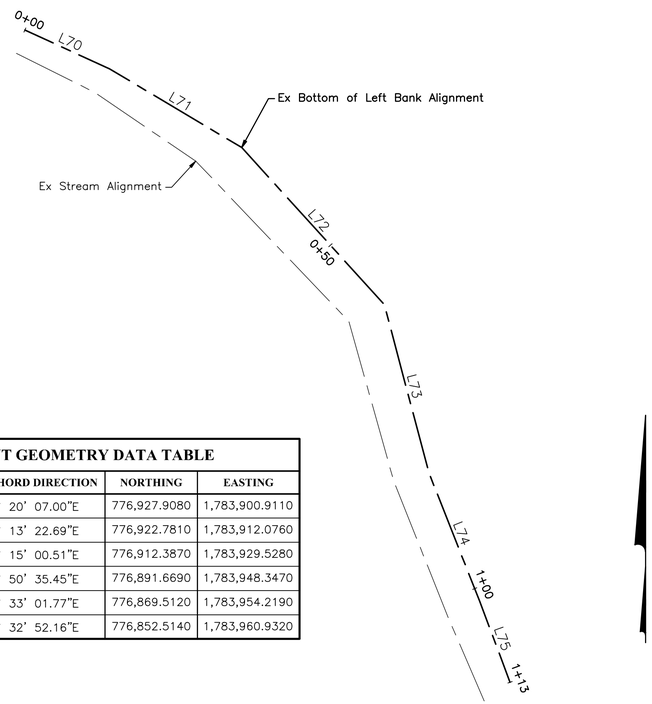
ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L58	0+00.00		18.81	S29° 45' 11.50"E	776,984.8010	1,783,581.2640
L59	0+18.81		20.65	S35° 17' 06.27"E	776,968.4720	1,783,590.5980
L60	0+39.45		25.23	S26° 09' 46.27"E	776,951.6190	1,783,602.5240
L61	0+64.68		19.71	S37° 16' 05.38"E	776,928.9750	1,783,613.6480
L62	0+84.39		26.27	S55° 09' 38.60"E	776,913.2900	1,783,625.5830
L63	1+10.67		21.32	S67° 43' 11.99"E	776,898.2800	1,783,647.1480
L64	1+31.99		22.29	S75° 43' 09.69"E	776,890.1970	1,783,666.8760
L65	1+54.28		20.35	S83° 11' 32.83"E	776,884.6990	1,783,688.4760
L66	1+74.62		26.60	N75° 35' 28.56"E	776,882.2870	1,783,708.6810
L67	2+01.22		23.49	N69° 09' 16.00"E	776,888.9060	1,783,734.4440
L68	2+24.71		19.39	N13° 30' 36.37"E	776,897.2640	1,783,756.3940
L69	2+44.10		25.30	N40° 26' 20.09"E	776,916.1140	1,783,760.9230

GRAPHIC SCALE

0 10 20 40

1 inch = 20 feet

SITE 44B
(1"=20')



SITE 44C EX ALIGNMENT GEOMETRY DATA TABLE

ID	STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING
L70	0+00.00		12.29	S65° 20' 07.00"E	776,927.9080	1,783,900.9110
L71	0+12.29		20.31	S59° 13' 22.69"E	776,922.7810	1,783,912.0760
L72	0+32.60		27.99	S42° 15' 00.51"E	776,912.3870	1,783,929.5280
L73	0+60.59		22.92	S14° 50' 35.45"E	776,891.6690	1,783,948.3470
L74	0+83.51		18.28	S21° 33' 01.77"E	776,869.5120	1,783,954.2190
L75	1+01.79		11.42	S20° 32' 52.16"E	776,852.5140	1,783,960.9320

GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet

SITE 44C
(1"=10')

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR

DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025

HORIZONTAL CONTROL PLAN

EMHT
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

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
10/97

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NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.
3. Minor branch trimming may be necessary to maintain site access within existing drainage easement. Contractor shall coordinate with City Engineer for approval prior to branch trimming.
4. Contractor shall avoid all unnecessary impacts to existing trees not marked for removal while ensuring site access boundary is within existing drainage easement.

RED BAY COURT

OTLEY ANDREW
7702 RED BAY CT
PID: 273-009011

Stream Corridor Protection Zone (SCPZ)

Ex Building (DND)

Ex Building (DND)

Ex Sidewalk (DND)

Ex 4" Stm (DND)

Ex Double Stacked 3" Stm (R&R)

Ex 4" Stm (R&R)

Temp Timber Matting (See Detail – Sheet 63)

14' Min.

Ex Comm (DND)

Ex Baseline

Ex Edge of Water

12" Tree (DND)

15" Tree (TBR)

TAMARISK CREEK

Drainage Easement P.B. 65, P. 36

Ex R/W

Ex E/P (DND)

Ex E/P (DND)

Ex Curb & Gutter
(R&R 20 Feet Per RD-02 Combination Concrete Curb and Gutter. Cost to be Included in the Bid Item for Item 609, Remove and Replace Concrete Curb and Gutter, As Per Plan.)

Ex Stm (DND)

CB (DND)

Temp Staging Area with Construction Fencing

See Note 4 – This Sheet)

5'

30" Tree (See Note 3 – This Sheet)

Limits of Disturbance

Ex 24" Stm (DND)

Ex Headwall (DND)

12" Tree (TBR)

BALAKRISHNAN KATHRYN B TR
7630 RED BAY CT
PID: 273-009021

Stream Corridor Protection Zone (SCPZ)

Ex Stm (DND)

Ex Stm MH (DND)

WV (DND)

WV (DND)

FH (DND)

Temporary Construction Access

Ex R/W

Ex Wat (DND)

Ex Comm (DND)

Ex E/P (DND)

TONTI DRIVE

Ex E/P (DND)

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 ACCESS PLAN

EMHT
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

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
11/97

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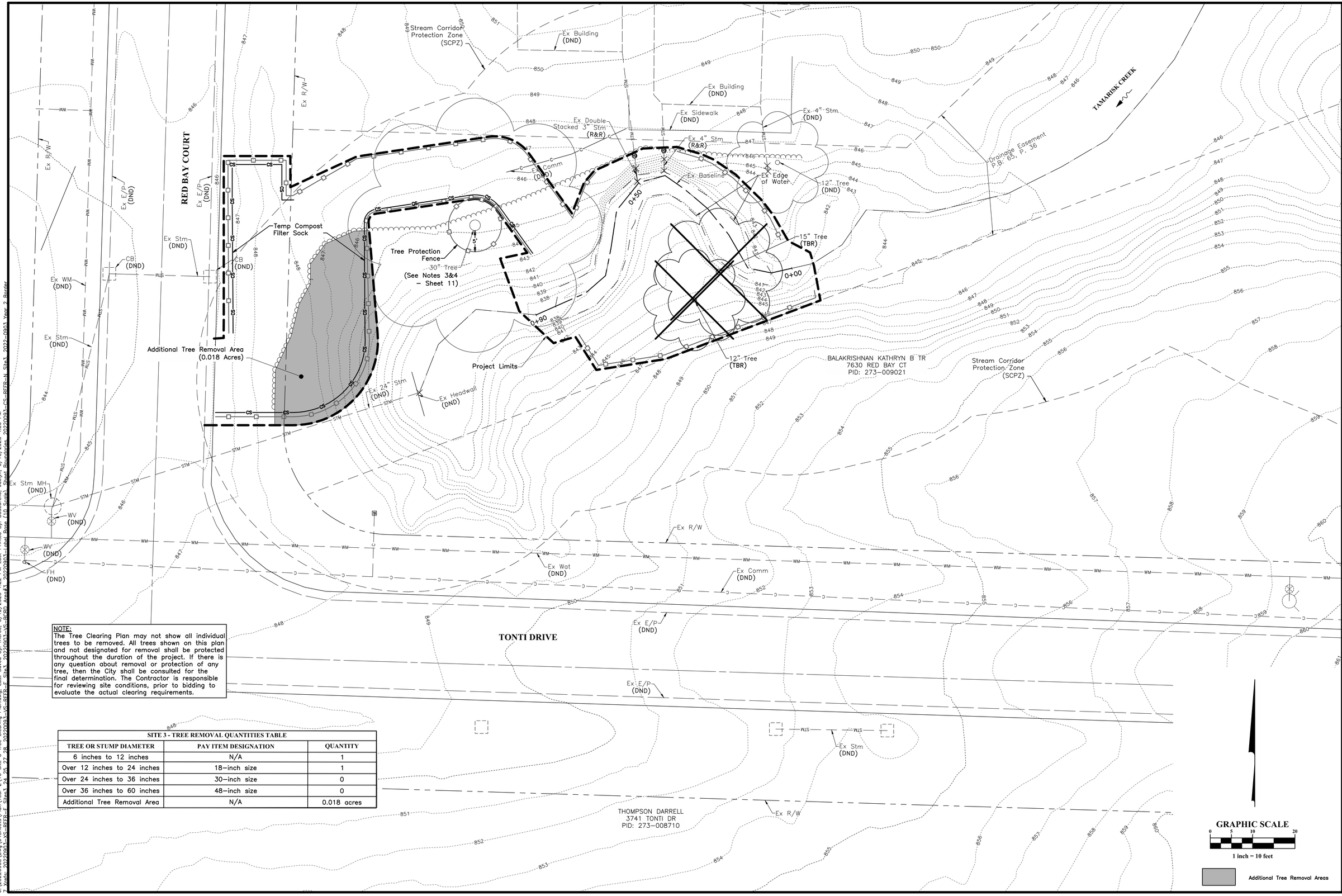

NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 3 - TREE REMOVAL QUANTITIES TABLE

TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	1
Over 12 inches to 24 inches	18–inch size	1
Over 24 inches to 36 inches	30–inch size	0
Over 36 inches to 60 inches	48–inch size	0
Additional Tree Removal Area	N/A	0.018 acres

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 TREE CLEARING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
12/97

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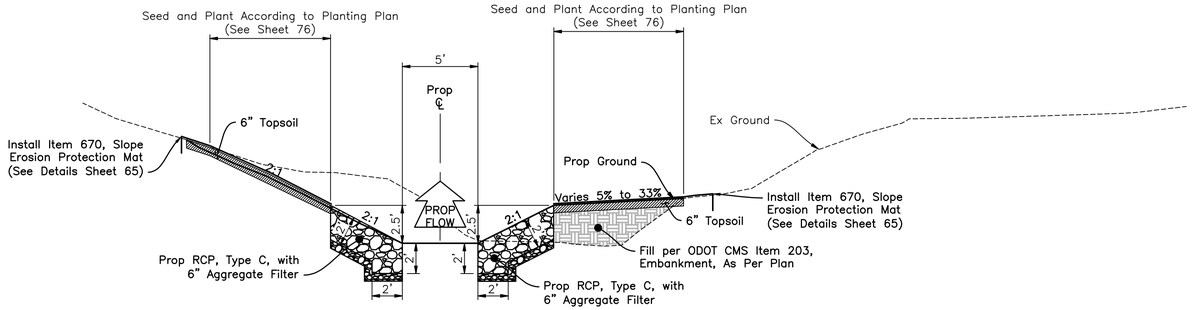
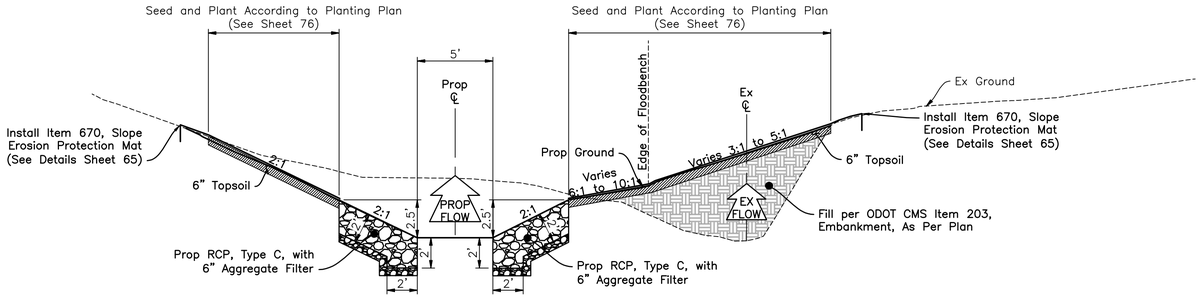
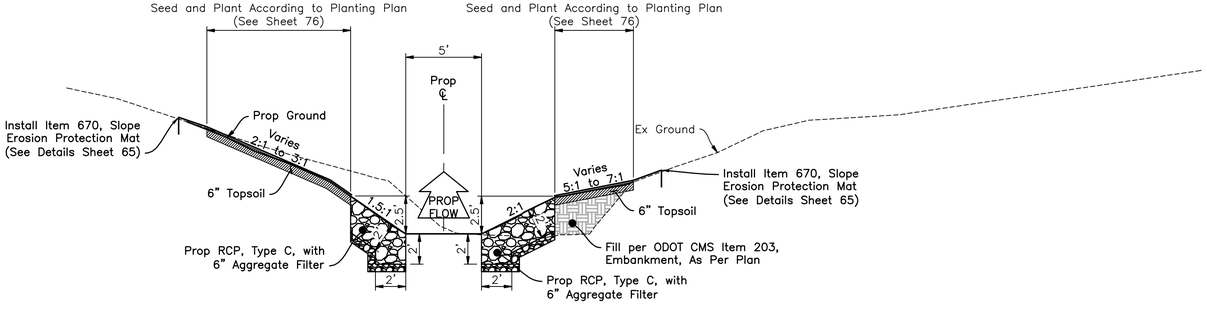
Xrefs: 20220903-XS-BFFR-E Site3 20220903-XS-BFFR-N Site3 2022-0903 Year 2 Border 20220903-XS-BFFR-E Site3 20220903-XS-BFFR-N Site3 Sheet Boundaries (10 Scale)



DETAIL
SITE 3 TYPICAL CHANNEL SECTION (STA 0+04.97 TO 0+15.42) H&V: 1" = 5'



DETAIL
SITE 3 TYPICAL CHANNEL SECTION (STA 0+15.42 TO 0+37.27) H&V: 1" = 5'



DETAIL
SITE 3 TYPICAL CHANNEL SECTION (STA 0+37.27 TO 0+51.17) H&V: 1" = 5'

NOTES:

GEOTEXTILES:
The specified geotextile shall meet the specifications identified on this plan, unless otherwise approved by the Engineer.

The geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure prior to placement. Each roll shall be labeled or tagged to provide product identification sufficient for field inventory and quality control purposes. Rolls shall be stored in a manner which provides identification, as well as protection from the elements. If stored outdoors, the rolls shall be elevated and protected with a waterproof cover.

INSTALLATION:
- Item 670, Slope Erosion Protection Mat, As Per Plan shall be installed as depicted in the Site 3 Typical Channel Section Details on this sheet and Installation Detail (Sheet 65).
- Stake matting to soil at density of 3.75 staples per square yard.

SEEDING:
See seeding notes on Sheets 04 and seeding zones and native grass seeding tables on Sheet 76.

PLANTING:
See planting notes on Sheets 88–89, planting details on Sheet 87, and planting plan on Sheet 76.

TOPSOIL:
See topsoil notes on Sheet 04. Depth of topsoil placed shall be as follows:

Side slopes (as shown in the Site 3 Typical Channel Section Details on this sheet):
- 6" Min

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 DETAILS & NOTES

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
13/97

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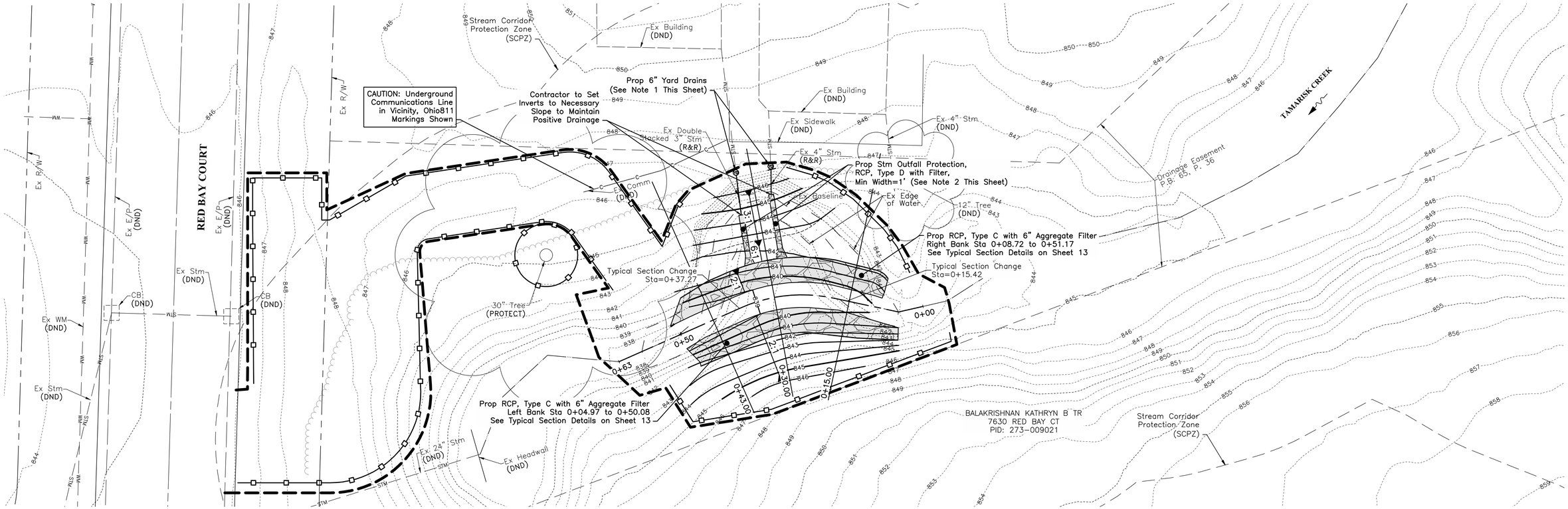
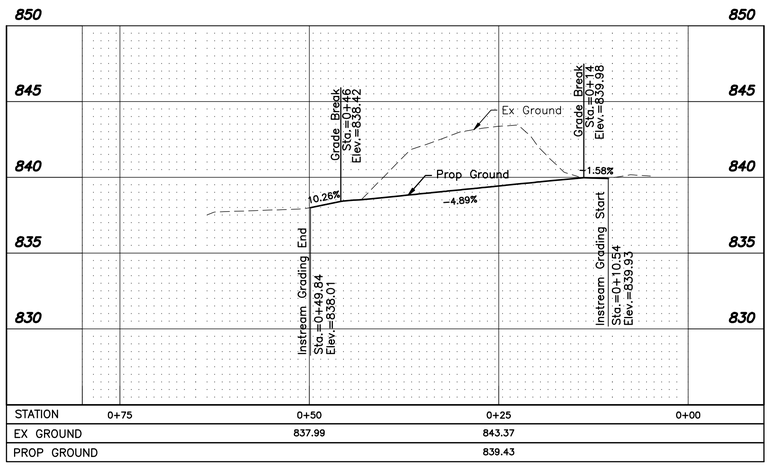


PLAN VIEW

NOTES:
1. Contractor shall install a 6" Yard Drain per AA-S161 at the connection between the existing storm sewer and the proposed storm sewer.
2. Outfall protection length shall extend from the yard drain outlet to the right bank RCP.



STATION	0+75	0+50	0+25	0+00
EX GROUND		837.99	843.37	
PROP GROUND			839.43	

PROFILE VIEW

HORIZ 1 inch = 10 Feet — 0 5 10 20
VERT 1 inch = 5 Feet — 0 2.5 5 10

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 PLAN & PROFILE

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

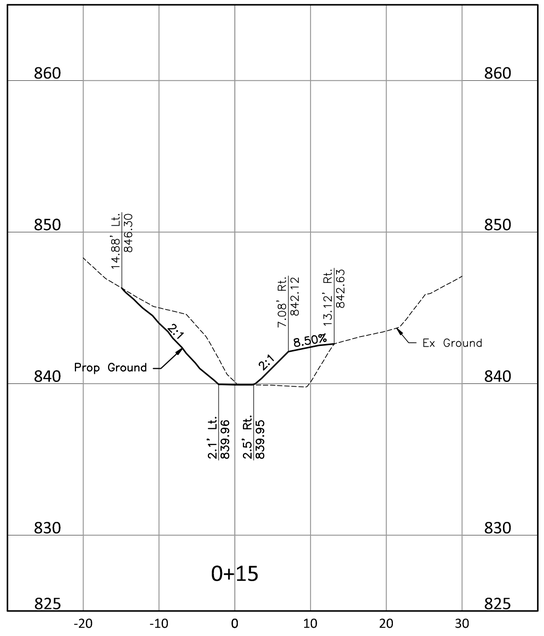
DATE: JUNE 2025

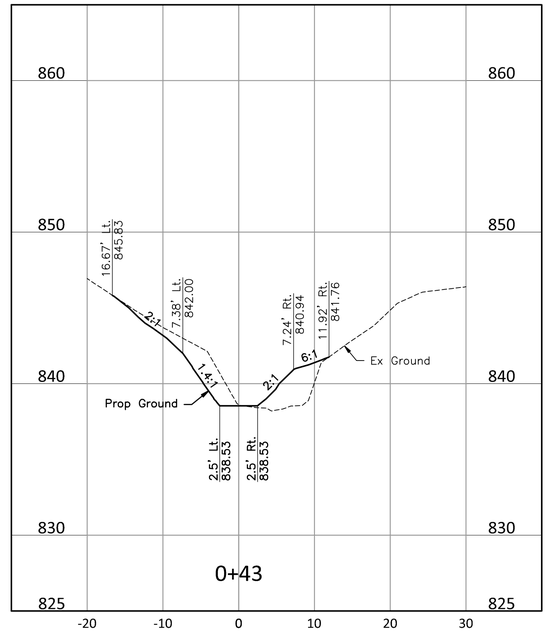
SCALE: Horiz: 1" = 10' Vert: 1" = 5'

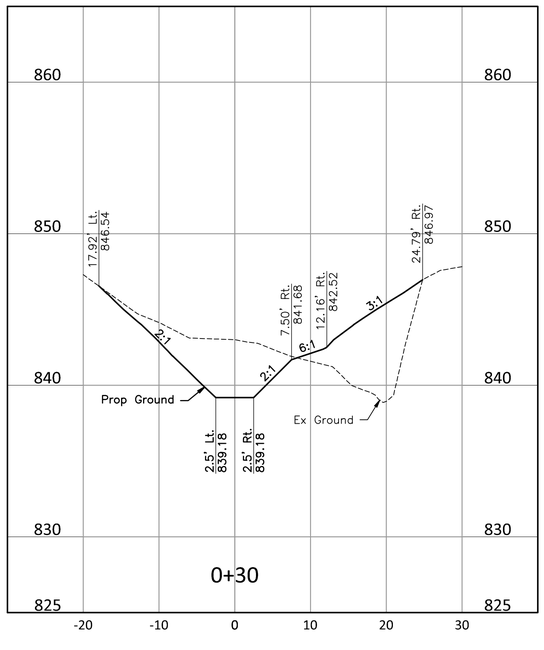
JOB NO.: 2022-0903

SHEET: 14/97

J:\2022\0903\Dwg\04Sheets\Plan\Year 2\22 Site 3 Plan & Profile.dwg, Last Saved By: mcrea 6/12/2025 1:23 PM, Last Printed By: Bescarello, Joslyn 6/16/2025 4:37 PM (No Xrefs)







HORIZ 1 inch = 10 Feet — 0 5 10 20

VERT 1 inch = 5 Feet — 0 2.5 5 10

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 CROSS SECTIONS

EMH&T
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

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
15/97

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NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.

Stream Corridor Protection Zone (SCPZ)

Ex Irrg Control Box (DND)

Ex Irrg Control Box (DND)

Ex Irrg Control Box (DND)

Ex Elec Meter (DND)

Ex Elec Trasformer (DND)

Ex Elec (DND)

Ex Irrg Control Box (DND)

Ex Elec (DND)

Ex Elec (DND)

Ex Sign (DND)

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 274-001008

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 274-001009

CB (DND)

Ex 8" Stm (DND)

Ex E/P (DND)

DARREE FIELDS DRIVEWAY

Ex 60" Stm (DND)

Ex Speed Bump (DND)

Ex E/P (DND)

CB (DND)

Ex 18" Stm (DND)

Ex RCP (R&R)

Ex RCP (DND)

Ex Sign (DND)

Ex Edge of Water

SOUTH FORK INDIAN RUN

Temporary Construction Access

20'

Ex Tree Row

20'

Limits of Disturbance

Temp Staging Area with Construction Fencing

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 272-000085

Stream Corridor Protection Zone (SCPZ)

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 18 ACCESS PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

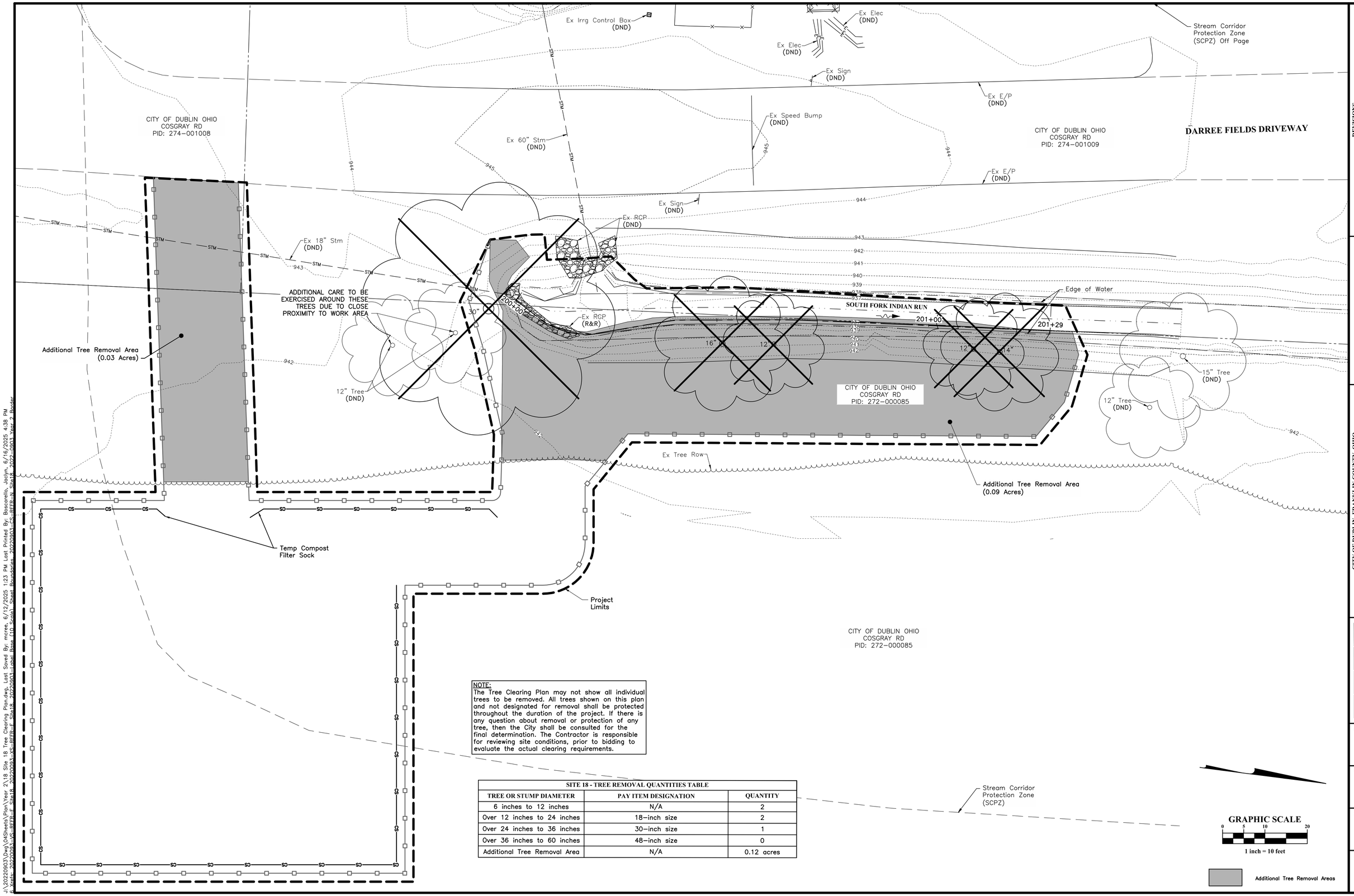
DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
16/97

J:\2022\0903\Dwg\04Strata\Plan\Year 2025 Site 18 Access Plan.dwg, Last Saved By: mrose, 6/12/2025 1:23 PM, Last Plotted By: Benarella, Jason, 6/16/2025 4:38 PM (No Xrefs)



NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 18 - TREE REMOVAL QUANTITIES TABLE

TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	2
Over 12 inches to 24 inches	18-inch size	2
Over 24 inches to 36 inches	30-inch size	1
Over 36 inches to 60 inches	48-inch size	0
Additional Tree Removal Area	N/A	0.12 acres

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 18 TREE CLEARING PLAN

EMH&T
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

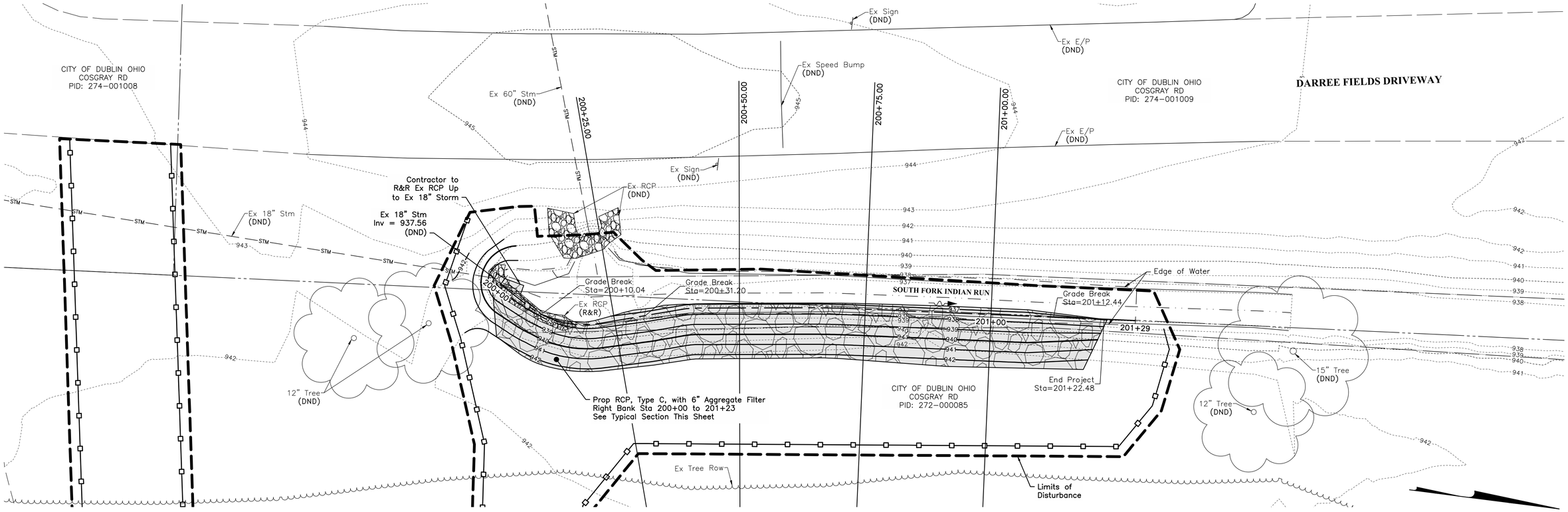
DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
17/97

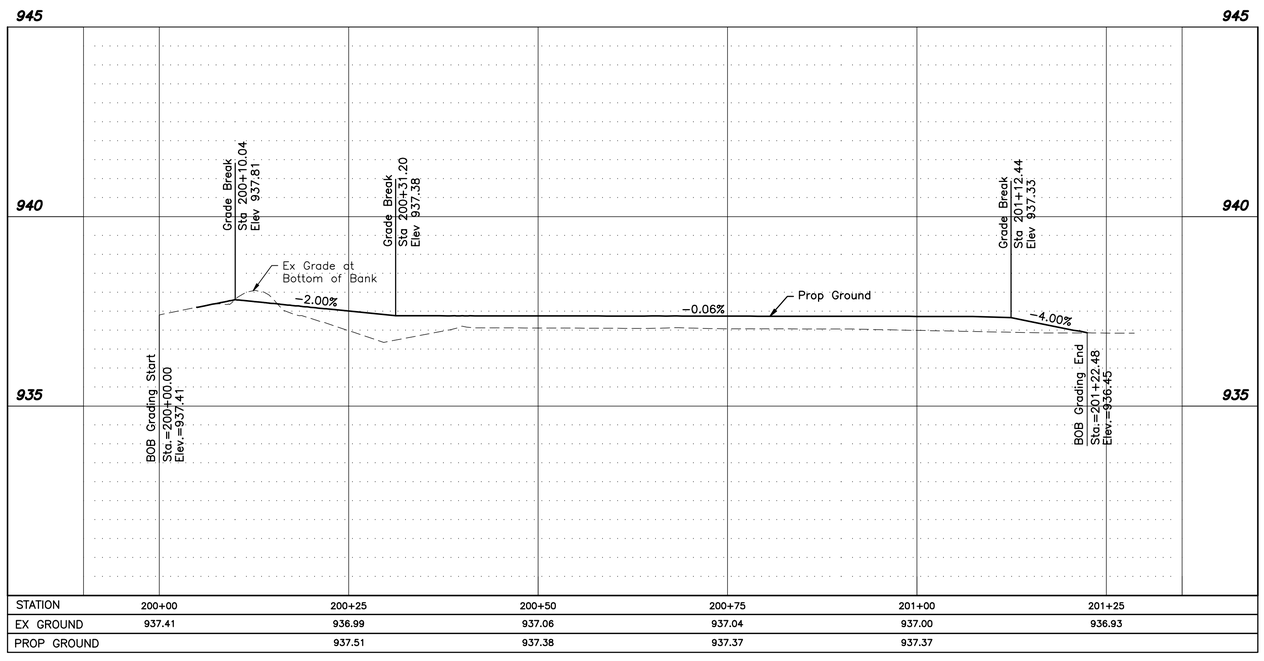
J:\20220903\Dwg\04Sheets\Plan\Year 2\18 Site 18 Tree Clearing Plan.dwg, Last Saved By: mcree, 6/12/2025 1:23 PM Last Printed By: Boscarello, Jocelyn, 6/16/2025 4:38 PM
Xrefs: 20220903_XS_REFR_F_Site18_20220903_XS_REFR_F_Site18_20220903_Inset Base (10 Scale) Sheet Boundaries_20220903_XS_REFR_N_Site18_20220903_XS_REFR_N_Site18_20220903_Year 2 Boundary



PLAN VIEW

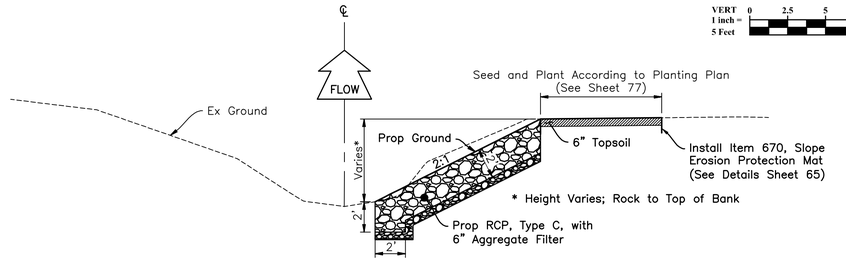
HORIZ 1 inch = 10 Feet: 0 5 10 20

VERT 1 inch = 5 Feet: 0 2.5 5 10



STATION	200+00	200+25	200+50	200+75	201+00	201+25
EX GROUND	937.41	936.99	937.06	937.04	937.00	936.93
PROP GROUND		937.51	937.38	937.37	937.37	

PROFILE VIEW



DETAIL

SITE 18 TYPICAL CHANNEL SECTION H&V: 1" = 5'

NOTES:

GEOTEXTILES:
The specified geotextile shall meet the specifications identified on this plan, unless otherwise approved by the Engineer.

The geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure prior to placement. Each roll shall be labeled or tagged to provide product identification sufficient for field inventory and quality control purposes. Rolls shall be stored in a manner which provides identification, as well as protection from the elements. If stored outdoors, the rolls shall be elevated and protected with a waterproof cover.

INSTALLATION:
- Item 670, Slope Erosion Protection Mat, As Per Plan shall be installed as depicted in the Site 18 Typical Channel Section Details on this sheet and Installation Detail (Sheet 65).

Stake matting to soil at density of 3.75 staples per square yard.

SEEDING:
See seeding notes on Sheets 04 and seeding zones and native grass seeding table on Sheet 77.

PLANTING:
See planting notes on Sheets 88–89, planting details on Sheet 87, and planting plan on Sheet 77.

TOPSOIL:
See topsoil notes on Sheet 04. Depth of topsoil placed shall be as follows:

Side slopes (as shown in the Site 18 Typical Channel Section Details on this sheet):
– 6" Min

REVISIONS

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PLAN
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MAINTENANCE PROGRAM 2025
SITE 18 PLAN & PROFILE

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Horiz: 1" = 10'
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2022-0903

SHEET
18/97

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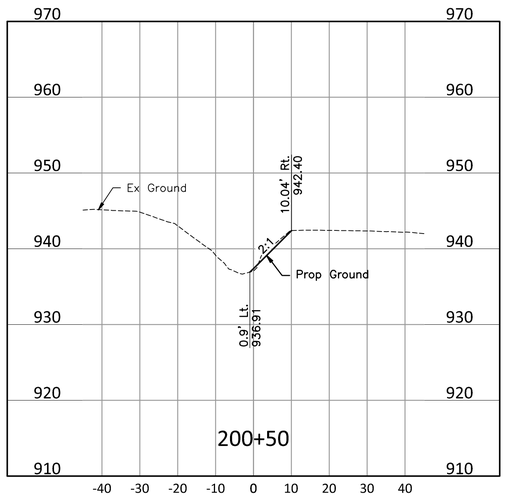

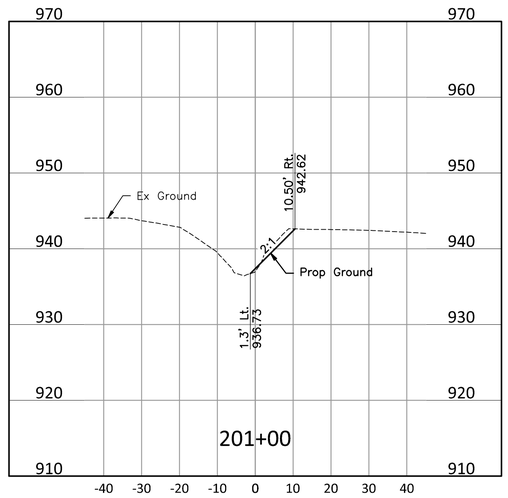

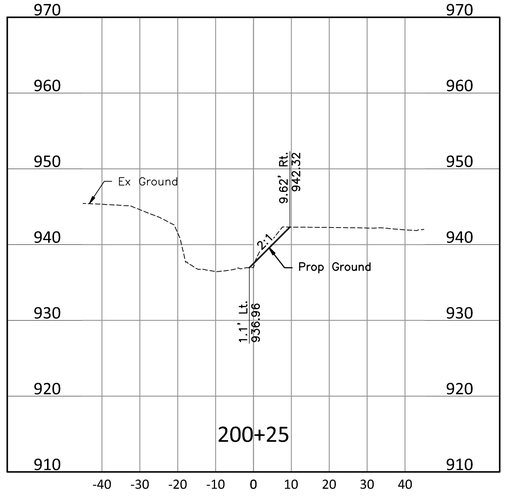

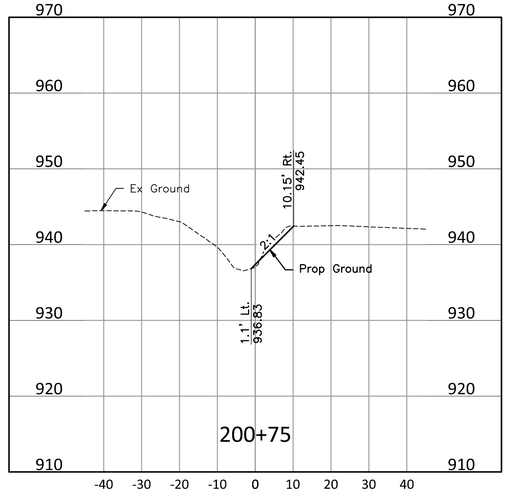

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 18 CROSS SECTIONS

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Engineers • Surveyors • Planners • Scientists
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DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
19/97

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NOTES:
1. CONTRACTOR TO RESTORE ALL STAGING AREAS AND ACCESS PATHS TO EXISTING CONDITIONS AND EXISTING GRADES.
2. CONTRACTOR SHALL USE TIMBER MATS TO CROSS EXISTING SANITARY LATERAL.CONTRACTOR SHALL HAVE ALL UTILITIES MARKED AND USED MARKINGS TO DETERMINE PLACEMENT OF TIMBER MAT.

CITY OF DUBLIN, OH

AVERY-MUIRFIELD DRIVE

LIMIT OF TOPOGRAPHIC SURVEY

CITY OF DUBLIN 0.067 AC. (DEED) O.R. 22233D03

ES. EXPOSED INVISIBLE DOG FENCE WIRE (REMOVE)

YASUMASA SHIBATA 0.23 AC. 6347 VALLEY STREAM DR

DIANE KOPP 0.24 AC. 6339 VALLEY STREAM DR

FEMA FLOODWAY

FEMA 100-YR FLOODPLAIN

FEMA 500-YR FLOODPLAIN

FEMA FLOODWAY 20' BUFFER

RESERVE "A" INDIAN RUN MEADOWS SECTION NO. 1 P.B. 61, P. 53

16" TREE (DND)

12" TREE (DND)

TEMP TIMBER MATTING SEE NOTE 2 AND DETAIL SHEET 63 (TYP.)

LIMITS OF DISTURBANCE

EX. BIKE PATH

SOUTH FORK INDIAN RUN

TEMP STAGING AREA

EX. HEADWALL (DND)

CITY OF DUBLIN, OHIO 1.689 AC. (DEED) I.N. 201404040041478

18" TREE (DND)

EX. STORMWATER MANHOLE (DND)

TEMP. CONSTRUCTION FENCE (TYP.)

RICHARD A. COLEMAN, II 1.062 AC. 6810 AVERY MUIRFIELD RD

CONSTRUCTION ENTRANCE

TEMPORARY CONSTRUCTION ACCESS

EX. ASPHALT DRIVEWAY (REPAIR EXISTING DRIVE PER ITEM 253 SPOT FULL DEPTH ASPHALT PAVEMENT REPAIR , DRIVE, AS PER PLAN)

PROPERTY LINE (TYP.)

DAVID J. KAISER LAURA A. KAISER 0.919 AC. 6800 AVERY RD

PRESBYTERIAN CHURCH IN AMERICA FOUNDATION INC 8.57 AC. 6400 POST RD

GRAPHIC SCALE
0 10 20 40
1 inch =20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 22 ACCESS PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
20/97

CITY OF DUBLIN, OH

AVERY-MUIRFIELD DRIVE

CITY OF DUBLIN
0.067 AC. (DEED)
P.R. 222330D3

EX. EXPOSED INVISIBLE DOG FENCE WIRE (REMOVE)

SHIBATA
0.23 AC.
6347 VALLEY STREAM DR

DIANE
0.24
6339
STREA

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

RESERVE "A"

INDIAN RUN MEADOWS SECTION NO. 1
P.B. 61, P. 53

16" TREE (DND)

12" TREE (DND)

TEMP CONSTRUCTION FENCING

IEX. BIKE PATH

LIMITS OF DISTURBANCE

COMPOST FILTER SOCK
SEE DETAIL SHEET 64 (TYP.)

TEMPORARY EASEMENT
(0.06 AC.)

SOUTH FORK INDIAN RUN

SITE 22
BASELINE

EX. HEADWALL (DND)

CITY OF DUBLIN, OHIO
1.689 AC.
(DEED)
I.N.
20140404004147B

EX. STORMWATER MANHOLE (DND)

18" TREE (DND)

14" TREE (DND)

FEMA FLOODWAY
20' BUFFER

FEMA FLOODWAY

TEMP TIMBER MATTING
SEE NOTE 2 SHEET 20
AND DETAIL SHEET 63 (TYP.)

FEMA 100-YR FLOODPLAIN

FEMA 500-YR FLOODPLAIN

RICHARD A. COLEMAN, II
1.062 AC.
6810 AVERY MUIRFIELD RD

TREE PROTECTION FENCE (TYP.)

PROPERTY LINE (TYP.)

EX. BIKE PATH

DAVID J. KAISER
LAURA A. KAISER
0.919 AC.
6800 AVERY RD

PRESBYTERIAN CHURCH IN AMERICA FOUNDATION INC
8.57 AC.
6400 POST RD

The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there are any questions about removal or protection of any tree, then the City shall be consulted for the the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 22 – TREE REMOVAL QUANTITIES TABLE		
TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
Over 12 inches to 24 inches	18–inch size	0
Over 24 inches to 36 inches	30–inch size	0
Over 36 inches to 60 inches	48–inch size	0
Additional Tree Removal Area	N/A	0

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR

DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025

SITE 22 TREE CLEARING PLAN

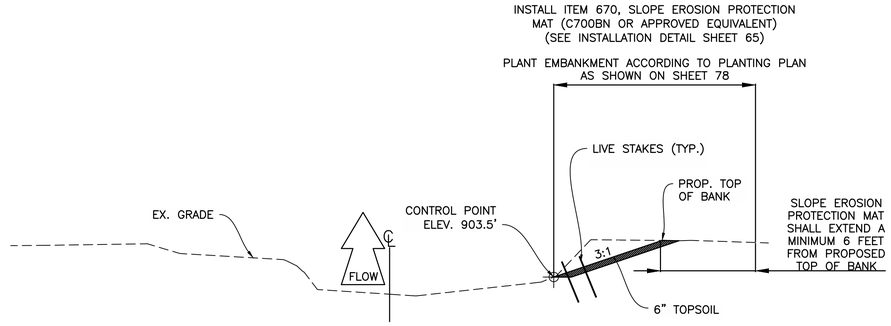
Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
21/97



DETAIL
SITE 22 TYPICAL SECTION (STA 0+66.0 TO 1+77.0) NOT TO SCALE

TYPICAL SECTION NOTES:

SLOPE EROSION PROTECTION MAT:

SLOPE EROSION PROTECTION MAT (SEPM) PER ITEM 670 SHALL BE WOVEN 700G COIR NETTING (OUTSIDE), COCONUT MATRIX MAT (MIDDLE), AND CONTINUOUS WEAVE JUTE NET (BOTTOM) (TYP.). EROSION CONTROL BLANKET BASED ON THE NORTH AMERICAN GREEN C700BN BIODEGRADABLE EROSION CONTROL BLANKET. SUBSTITUTION OF THE EROSION CONTROL BLANKET WILL BE CONSIDERED IF THEY MEET OR EXCEED THE PERFORMANCE SPECIFICATIONS OF THE C700BN BLANKET.

THE SPECIFIED SEPM SHALL MEET THE SPECIFICATIONS IDENTIFIED ON THIS PLAN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE SEPM SHALL BE FURNISHED WITH SUITABLE WRAPPING FOR PROTECTION AGAINST MOISTURE AND EXTENDED ULTRAVIOLET PRIOR TO PLACEMENT. EACH ROLL SHALL BE LABELED OR TAGGED TO PROVIDE PRODUCT IDENTIFICATION SUFFICIENT FOR FIELD INVENTORY AND QUALITY CONTROL PURPOSES. ROLLS SHALL BE STORED IN A MANNER WHICH PROVIDES IDENTIFICATION, AS WELL AS PROTECTION FROM THE ELEMENTS. IF STORED OUTDOORS, THE ROLLS SHALL BE ELEVATED AND PROTECTED WITH A WATERPROOF COVER.

INSTALLATION:

- ITEM 670, SLOPE EROSION PROTECTION MAT (C700BN OR APPROVED EQUIVALENT) SHALL BE INSTALLED ON DISTURBED GROUND ABOVE THE HARD-PAN CLAY WITHIN THE CHANNEL BOTTOM AS DEPICTED IN DETAIL 1 ON THIS SHEET. ALSO REFER TO THE SITE 22 PLANTING PLAN, SHEET 79, AND INSTALLATION DETAIL, SHEET 65 FOR ADDITIONAL INFORMATION.

- STAKE BLANKET TO SOIL AT A DENSITY OF 3.75 WOOD STAKES PER SQUARE YARD. ONLY WOOD STAKES SHALL BE USED TO SECURE THE BLANKET.

SEEDING:

SEE PLANTING NOTES ON SHEETS 88-89, PLANTING DETAILS ON SHEET 87, AND PLANTING PLAN ON SHEET 78.

TOP SOIL:

SEE TOPSOIL NOTES ITEM 653 ON SHEET 04. DEPTH OF TOPSOIL PLACED SHALL BE 6.0" MINIMUM AS SHOWN ON THE DETAIL ON THIS SHEET.

REVISIONS

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CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 22 DETAILS

Stantec

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
22/97

CITY OF DUBLIN
0.067 AC. (DEED)
O.R. 22233D03

AVERY-MUIRFIELD DRIVE

3-SIDED FRAME CULVERT
(PRE-CAST CONCRETE) WITH
24' SPAN AND NATURAL
BOTTOM

CITY OF
DUBLIN, OHIO
1.689 AC.
(DEED)
I.N.
201404040041478

13" TREE
(DND)

EX. STORMWATER
MANHOLE (DND)

EX. HEADWALL
(DND)

14" TREE
(DND)

EX. TOE OF BANK

CONTROL POINT
ELEV = 903.5'

BEGIN PROPOSED BANK
STABILIZATION TREATMENT;
STA 0+63

END PROPOSED BANK
STABILIZATION TREATMENT;
STA 1+76

16" TREE
(DND)

RESERVE "A"

INDIAN RUN
MEADOWS
SECTION NO. 1
P.B. 61, P. 53

LIMITS OF DISTURBANCE

COMPOST FILTER SOCK
SEE DETAIL SHEET 64 (TYP.)

LAY BACK CHANNEL
BANK AT A 3:1 SLOPE
SEE SHEET 22 FOR
DETAILS

PROPERTY BOUNDARY (TYP.)

SOUTH FORK
INDIAN RUN

CONTRACTOR SHALL NOT DISTURB
EXISTING SANITARY LATERAL

TEMP TIMBER MATTING
SEE NOTE 2 SHEET **20** AND
DETAIL SHEET 63 (TYP.)

FEMA FLOODWAY

FEMA FLOODWAY
20' BUFFER

EXTENT OF TOPOGRAPHY

FEMA 100-YR
FLOODPLAIN

FEMA 500-YR
FLOODPLAIN

TEMPORARY EASEMENT (0.06 AC)

RICHARD A.
COLEMAN, II
1.062 AC.
6810 AVERY
MUIRFIELD RD

GRAPHIC SCALE
0 5 10 20
1 inch =10 feet

REVISIONS

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CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 22 PLAN

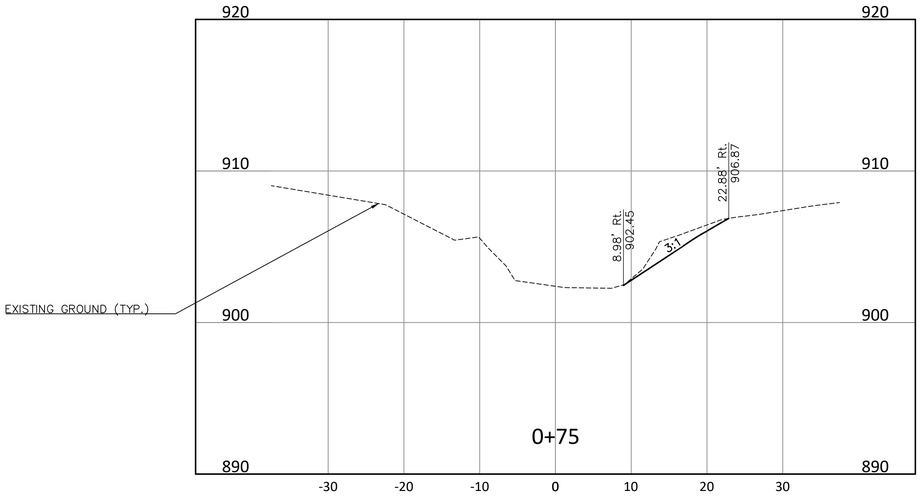
Stantec

DATE
JUNE 2025

SCALE
1" = 10'

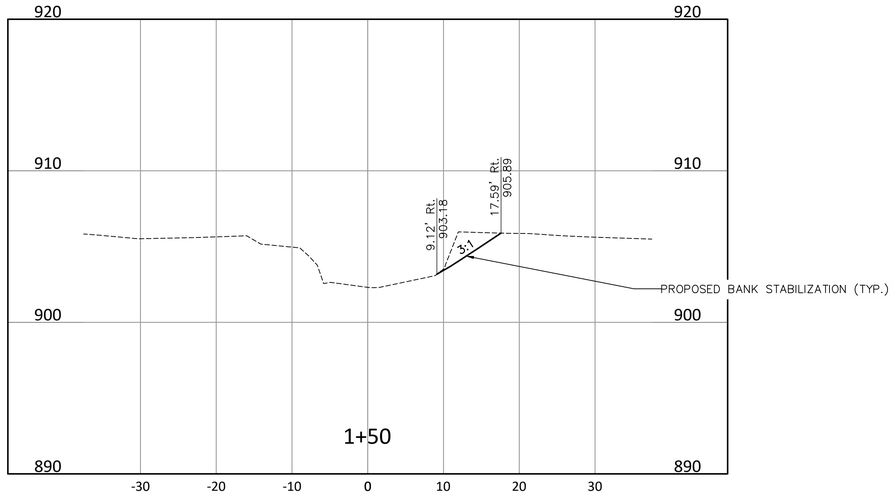
JOB NO.
2022-0903

SHEET
23/97



CROSS-SECTION 1

CROSS-SECTION 2



CROSS-SECTION 3

1"=10' HORIZ.
1"=5' VERT.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

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PLAN
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DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 22 CROSS-SECTIONS

Stantec

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
24/97

NOTES:
1. CONTRACTOR TO RESTORE ALL STAGING AREAS AND ACCESS PATHS TO EXISTING CONDITIONS AND EXISTING GRADES.

DUBLIN TONTI PARTNERS LLC
3841 TONTI DR

EVAN WAYNE HONEYCUTT
0.68 AC.
TONTI DR

PATRICK G. TANNER
0.70 AC.
3793 TONTI DR

DARRELL THOMPSON
1.38 AC.
3741 TONTI DR

JEFFREY M. JENKINS
0.46 AC.
3693 TONTI DR

RANDALL R. BEHNKE
0.46 AC.
TONTI DR

RANDALL R. BEHNKE
0.92 AC.
3643 TONTI DR

KIMBERLY A. JOHNSTON
0.46 AC.
3599 TONTI DR

RESERVE "C"
WYANDOTTE WOODS SECTION 2 PHASE 1
P.B. 98, P. 91

GRAPHIC SCALE
0 10 20 40
1 inch =40 feet

TEMP ACCESS WITH CONSTRUCTION FENCING, SEE INSET

PROJECT LIMITS

EX. GRAVEL TRAIL (REPAIR PER ITEM 304 – AGGREGATE BASE, TRAIL, AS PER PLAN)

EX. TRAIL, 9 FEET WIDE (TYP.)

PROPERTY LINE (TYP.)

EX. PATH

THADDEUS KOSCIUSZKO PARK

UNNAMED TRIBUTARY TO SCIOTO RIVER

TEMPORARY CONSTRUCTION ACCESS

EX. GAZEBO

EX. PARKING LOT

CONTRACTOR TO REMOVE AND REPLACE CENTER WOOD BOLLARD/S TO ACCESS TRAIL, COST INCIDENTAL TO ITEM 253 SPOT FULL DEPTH ASPHALT REPAIR, TRAIL, AS PER PLAN

EX. TRAIL (R&R PER RD-06 SHARED USE PATH: STANDARD AND HEAVY DUTY, COST TO BE INCLUDED IN BID ITEM 253, SPORT FULL DEPTH ASPHALT REPAIR, TRAIL, AS PER PLAN.)

PARK ACCESS ROADWAY

HARD ROAD

INSET MAP

LIMIT OF TOPOGRAPHIC SURVEY

TEMP STAGING AREA WITH CONSTRUCTION FENCING

12" TREE (DND)

EX. 15" CMP (DND)

15" TREE (DND)

TREE PROTECTION FENCE

GRAPHIC SCALE
0 5 10 20
1 inch =20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 24 ACCESS PLAN

Stantec

DATE
JUNE 2025

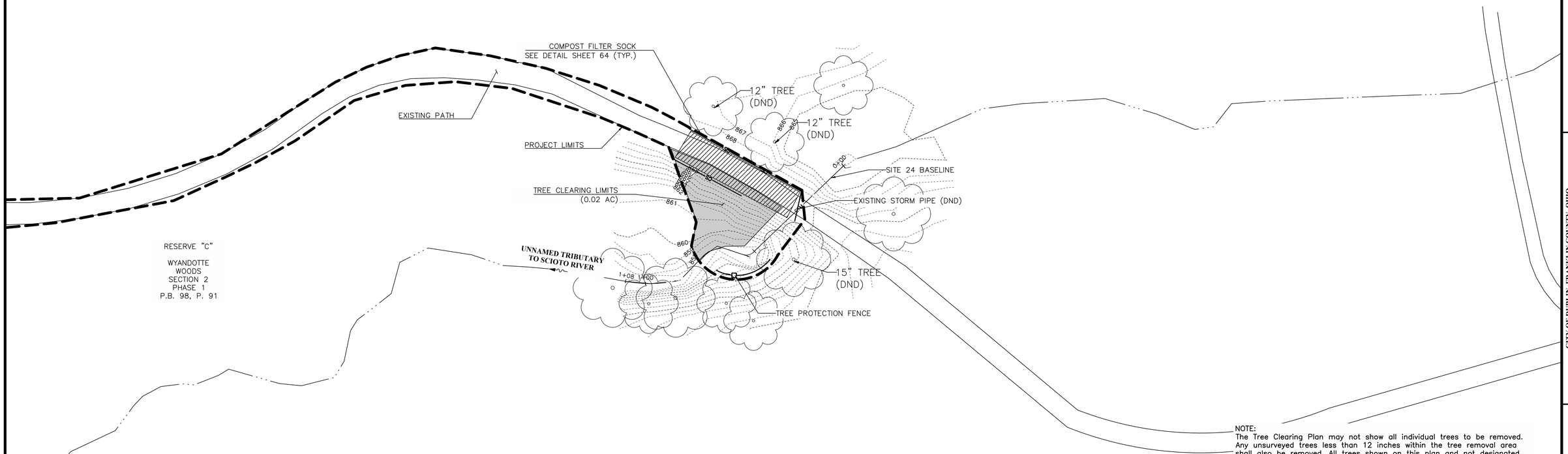
SCALE
1" = 40'
INSET MAP
1" = 20'

JOB NO.
2022-0903

SHEET
25/97

NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet



NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. Any unsurveyed trees less than 12 inches within the tree removal area shall also be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there are any questions about removal or protection of any tree, then the City shall be consulted for the the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 24 – TREE REMOVAL QUANTITIES TABLE		
TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
Over 12 inches to 24 inches	18–inch size	0
Over 24 inches to 36 inches	30–inch size	0
Over 36 inches to 60 inches	48–inch size	0
Additional Tree Removal Area	N/A	0.023 acres

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 24 TREE CLEARING PLAN

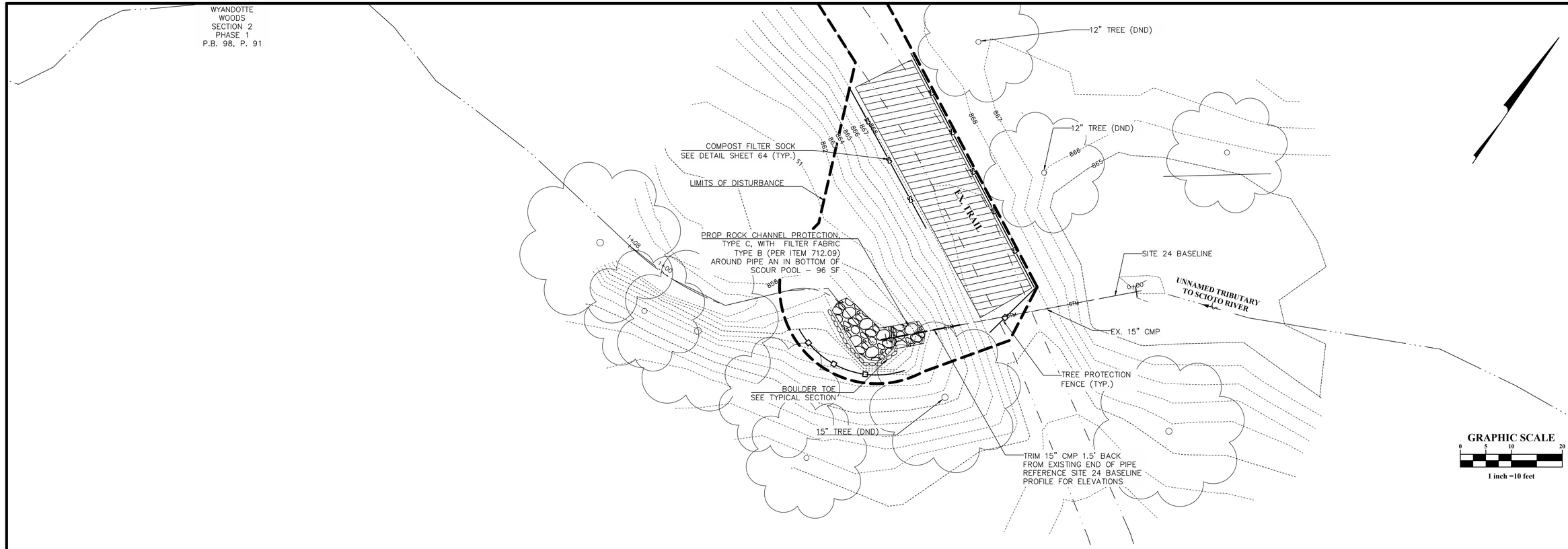
Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
26/97



TYPICAL SECTION NOTES:

BOULDER TOE:

THE BOULDER TOE SHALL BE CONSTRUCTED OF BOULDERS, #3 STONE (PER ITEM 703.19), AND FILTER FABRIC (PER ITEM 712.09 TYPE B). BOULDERS SHALL BE QUARRY OR FIELD STONE THAT IS DURABLE LIMESTONE, DOLOMITE, GRANITE, OR SANDSTONE OF SUFFICIENT HARDNESS TO RESIST WEATHERING AND SHALL BE FREE OF SHALE, CRACKS, AND OTHER DEFECTS. THE VOIDS BETWEEN THE BOULDERS SHALL BE INFILLED WITH #3 STONE. PLAN QUANTITIES ASSUME A 30% VOID RATIO IN THE BOULDER TOE. THE BOULDERS SHALL HAVE MINIMUM DIMENSIONS OF 2.5' WIDE BY 2.5' DEEP BY 2.5' LONG. THE TOTAL LENGTH OF THE BOULDER TOE IS 26.0 FEET AS SHOWN ON THIS SHEET.

INSTALLATION:
1. EXCAVATE SHALLOW TRENCH AT TOE OF BANK.
2. LINE TRENCH AND BACK OF UNDERCUT BANK WITH FILTER FABRIC.
3. PLACE BOULDER IN FRONT OF UNDERCUT BANK AND USE THE EXCAVATOR BUCKET TO ROLL/KNUCKLE BOULDER INTO THE UNDERCUT BANK SUCH THAT THE FACE OF THE BOULDER NEARLY ALIGNS WITH THE FACE OF THE UNDERCUT BANK AND INTO THE EXISTING BED 0.5'.
4. PLACE THE NEXT BOLDER FOLLOWING STEP 3.
5. CHINK GAPS BETWEEN BOULDERS AND BEHIND BOULDERS WITH #3 STONE.
6. REPEAT STEPS 3 THROUGH 5 TO FINISH THE STRUCTURE.
7. WRAP THE BOULDER TOE AROUND THE SCOUR HOLE. USE THE BOULDERS TO BUILD A BOULDER HEADWALL AROUND THE TRIMMED CULVERT.
8. INSTALL ALL BOULDERS PER PLANS.
9. THE COST OF MATERIALS AND LABOR TO CONSTRUCT THE BOULDER TOE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPEC. BOULDER TOE, AS PER PLAN.

SLOPE EROSION PROTECTION MAT:

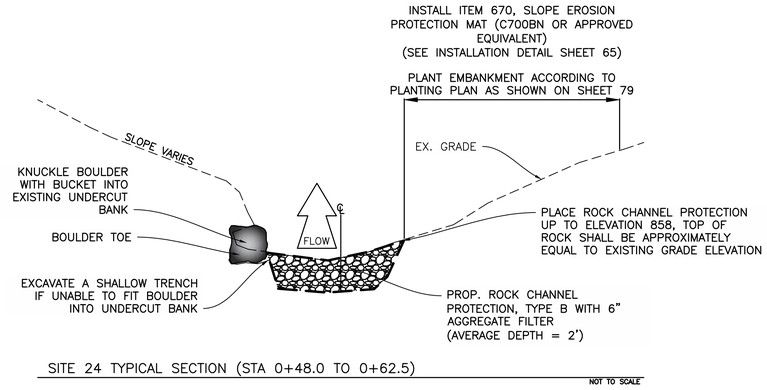
THE SPECIFIED SLOPE EROSION PROTECTION MAT (SEPM) SHALL MEET THE SPECIFICATIONS IDENTIFIED ON THIS PLAN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE SEPM SHALL BE FURNISHED WITH SUITABLE WRAPPING FOR PROTECTION AGAINST MOISTURE AND EXTENDED ULTRAVIOLET PRIOR TO PLACEMENT. EACH ROLL SHALL BE LABELED OR TAGGED TO PROVIDE PRODUCT IDENTIFICATION SUFFICIENT FOR FIELD INVENTORY AND QUALITY CONTROL PURPOSES. ROLLS SHALL BE STORED IN A MANNER WHICH PROVIDES IDENTIFICATION, AS WELL AS PROTECTION FROM THE ELEMENTS. IF STORED OUTDOORS, THE ROLLS SHALL BE ELEVATED AND PROTECTED WITH A WATERPROOF COVER.

INSTALLATION:
- ITEM 670, SLOPE EROSION PROTECTION MAT SHALL BE INSTALLED ON DISTURBED GROUND AS DEPICTED ON THE SITE 24 PLANTING PLAN, SHEET 79, AND THE INSTALLATION DETAIL, SHEET 65.
- STAKE BLANKET TO SOIL AT A DENSITY OF 3.75 WOOD STAKES PER SQUARE YARD. ONLY WOOD STAKES SHALL BE USED TO SECURE THE BLANKET.

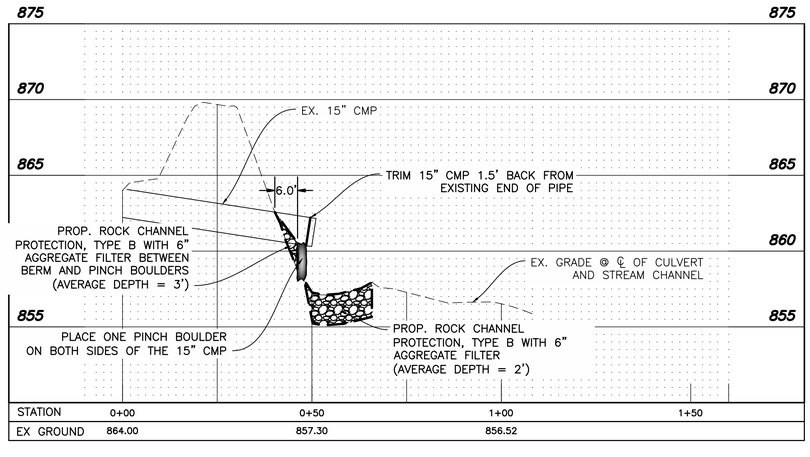
SEEDING:

SEE PLANTING NOTES ON SHEETS 88–89, PLANTING DETAILS ON SHEET 87, AND PLANTING PLAN ON SHEET 79.



SITE 24 TYPICAL SECTION (STA 0+48.0 TO 0+62.5)

NOT TO SCALE



HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

SITE 24 BASELINE PROFILE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR

DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025

SITE 24 PLAN & PROFILE

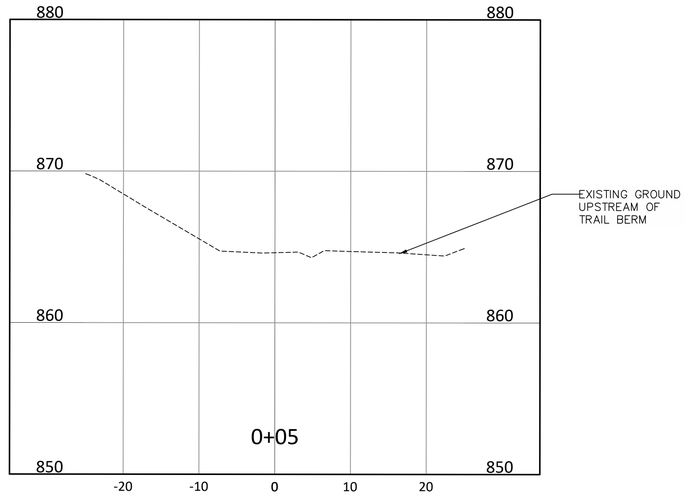
Stantec

DATE
JUNE 2025

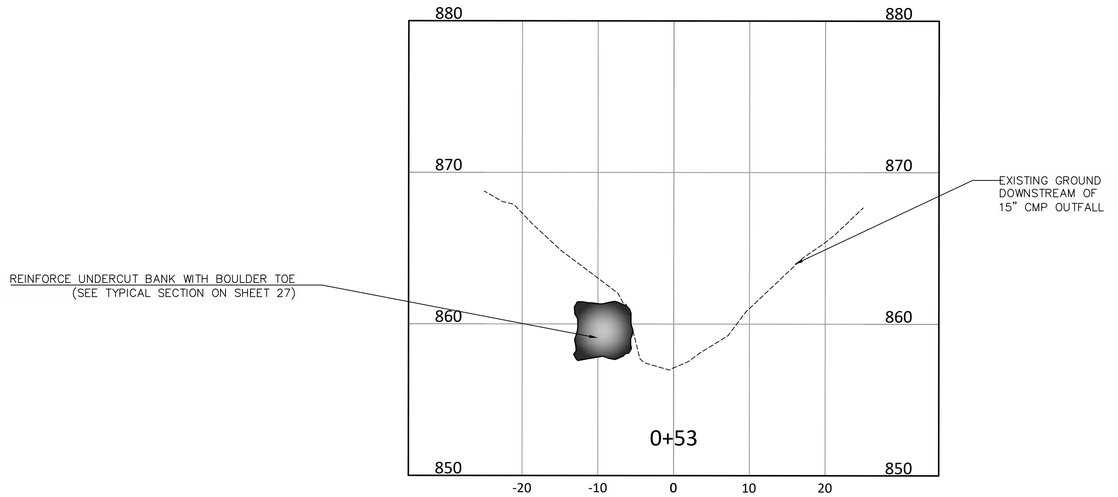
SCALE
AS NOTED

JOB NO.
2022-0903

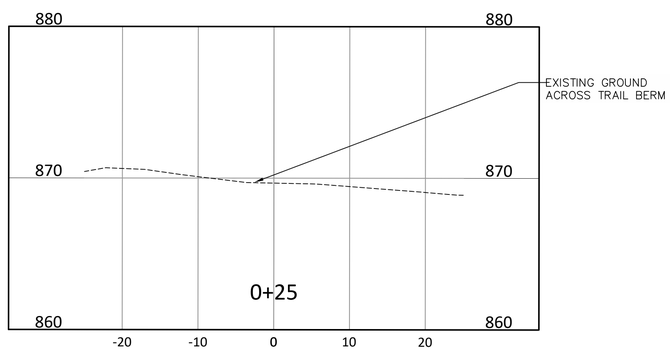
SHEET
27/97



CROSS-SECTION 1



CROSS-SECTION 3



CROSS-SECTION 2

1"=10' HORIZ.
1"=5' VERT.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 24 CROSS-SECTIONS

Stantec

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
28/97

NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to be aware of existing site conditions and weather conditions during construction and is responsible for equipment and material safety while being stored in the basin. The City of Dublin is not responsible for any damage incurred to Contractor equipment or project materials due to storage in basin.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.

WYANDOTTE WOODS BOULEVARD

BOYLSTON COURT

LANHAM COURT

Site 28

Site 27

Site 25

20' Drainage/Pedestrian Access Easement P.B.98, P. 91 I.N. 202201070005031

28' Drainage/Pedestrian Access Easement P.B.98, P. 91 I.N. 202201070005031

4345 ZIMMERMAN MICHEL WYANDOTTE WOODS BL PID: 273-010812

4337 SHEN MOHOW H WYANDOTTE WOODS BL PID: 273-010813

4329 WRIGHT TIMOTHY W WYANDOTTE WOODS BL PID: 273-010814

4321 SMITH RYAN TR WYANDOTTE WOODS BL PID: 273-010815

4315 KOSICKI GERALD M WYANDOTTE WOODS BL PID: 273-010816

4305 OSINELLI DAVID A WYANDOTTE WOODS BL PID: 273-010817

4297 HOLADAY ALAN WYANDOTTE WOODS BL PID: 273-010818

4289 LO CHIA CHEN WYANDOTTE WOODS BL PID: 273-010819

HICKS RYAN 7811 BOYLSTON CT PID: 273-010820

LADD ROBRET 7803 BOYLSTON CT PID: 273-010821

SCHAEFFER SCOTT N SU TR 4251 WYANDOTTE WOODS BL PID: 273-010831

BLACKSTONE STEVEN C 7795 BOYLSTON CT PID: 273-010822

THAKALLAPALLY RAMA 7787 BOYLSTON CT PID: 273-010823

OKAI THEOPHILUS KORKWEI 7804 BOYLSTON CT PID: 273-010830

BAILEY CLAUDE W JR 4231 WYANDOTTE WOODS BL PID: 273-011171

KHALIFA MUHAMMAD A 7779 BOYLSTON CT PID: 273-010824

BECK JAMES A SU TR 7796 BOYLSTON CT PID: 273-010829

SHEMENSKI CRAIG S 7771 BOYLSTON CT PID: 273-010825

AKINS ARIEL 7788 BOYLSTON CT PID: 273-010828

WALROD BRYANT J 7785 LANHAM CT PID: 273-011168

HOSSAIN MOHAMMED M 7793 LANHAM CT PID: 273-011169

BAKER JUSTIN A 7801 LANHAM CT PID: 273-011170

STOLZE MARK GREGORY 7772 BOYLSTON CT PID: 273-010826

LUCAS STUART D 7780 BOYLSTON CT PID: 273-010827

PERO BRIAN V 7794 LANHAM CT PID: 273-011164

MEREDITH PATRICK C 7786 LANHAM CT PID: 273-011165

OZGUNER UMIT 7777 LANHAM CT PID: 273-0111167

KOESTERS STEPHEN C TR 7778 LANHAM CT PID: 273-011166

CITY OF DUBLIN OHIO WYANDOTTE WOODS BL PID: 273-010853

CITY OF DUBLIN OHIO WYANDOTTE WOODS BL PID: 273-010853

CITY OF DUBLIN OHIO WYANDOTTE WOODS BL PID: 273-011332

FEMA Zone A 100-Year Floodplain Limits FIRM Panel: 39049C0038K

Detention Easement (Approx.) P.B. 98, P. 91 I.N. 200201070005031

Detention Easement (Approx.) P.B. 98, P. 91 I.N. 200201070005031

Stream Corridor Protection Zone (SCPZ)

Ex Basin Outlet

Temp Staging Area with Construction Fencing

Temp Stream Crossing (See Detail – Sheet 63)

Temp Stream Crossing (See Detail – Sheet 63)

Temp Stream Crossing (See Detail – Sheet 63)

Temp Easement (0.031 Ac.)

Temp Easement (0.058 Ac.)

Temp Easement (0.026 Ac.)

UNNAMED TRIBUTARY

Temporary Construction Access

Contractor shall Maintain Existing Flow to Basin

Temp Staging Area with Construction Fencing (See Note 2)

Ex Edge of Water

Ex Basin

Ex Stm Outfall

Ex 100-Year Basin Elev (Elev = 886.72)

Detention Easement (Approx.) P.B. 98, P. 91 I.N. 200201070005031

Ex Basin Outlet

28' Drainage/ Pedestrian Access Easement P.B. 101, P. 68 I.N. 200303130074154

Ex Mailbox
(Remove and Reset at Existing Location. Cost to be Inlcuded in the Bid Item for Item Spec, Remove and Reset Mailbox, As Per Plan.)

Ex Sidewalk
(R&R Per RD-05 Concrete Sidewalk and Shared Use Path. Cost to be Included in the Bid Item for Item 253, Sidewalk Removed and Replaced (Concrete), As Per Plan.)
Ex Curb & Gutter
(R&R Per RD-02 Combination Concrete Curb and Gutter. Cost to be Included in the Bid Item for Item 609, Remove and Replace Concrete Curb and Gutter, As Per Plan.)

GRAPHIC SCALE
0 25 50 100
1 inch = 50 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 25, 27, & 28 ACCESS PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 50'

JOB NO.
2022-0903

SHEET
29/97

C:\2022\0903\Dwg\Dgn\Sheets\Plan\Year 2\25_27_28 Site 25, 27 & 28 Access Plan.dwg, Last Saved By: mgreen, 6/12/2025, 1:23 PM, Last Printed By: Bcancilla, 6/16/2025 4:39 PM (No Xrefs)

SITE 25 - TREE REMOVAL QUANTITIES TABLE		
TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	0
Over 12 inches to 24 inches	18–inch size	3
Over 24 inches to 36 inches	30–inch size	0
Over 36 inches to 60 inches	48–inch size	0
Additional Tree Removal Area	N/A	0.46 acres

NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

AKINS ARIEL
7788 BOYLSTON CT
PID: 273–010828

LUCAS STUART D
LUCAS ROBIN S
7780 BOYLSTON CT
PID: 273–010827

WALROD BRYANT J
7785 LANHAM CT
PID: 273–011168

HOSSAIN MOHAMMED M
7793 LANHAM CT
PID: 273–011169

OZGUNER UMIT
7777 LANHAM CT
PID: 273–0111167

KOESTERS STEPHEN C TR
7778 LANHAM CT
PID: 273–011166

MEREDITH PATRICK C
7786 LANHAM CT
PID: 273–011165

CITY OF DUBLIN OHIO
WYANDOTTE WOODS BL
PID: 273–010853

LANHAM COURT

SITE 25

SITE 27

Additional Tree Removal Area (0.46 Acres)

Temp Compost Filter Sock

Stream Corridor Protection Zone (SCPZ)

Detention Easement (Approx.)
P.B. 98, P. 91
I.N. 200201070005031

Ex 100–Year Basin Elev (Elev = 886.72)

28' Drainage/Pedestrian Access Easement P.B. 101, P. 68 I.N. 200012290025

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

Additional Tree Removal Areas

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 25 & 27 TREE CLEARING PLAN

EMHT
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

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
30/97

J:\2022\0903\Dwg\04Sheets\Plan\Year 2\21 Site 25 & 27 Tree Clearing Plan.dwg, Last Saved By: mcree, 6/12/2025 1:23 PM Last Printed By: Boscarello, Jaclyn, 6/16/2025 4:39 PM
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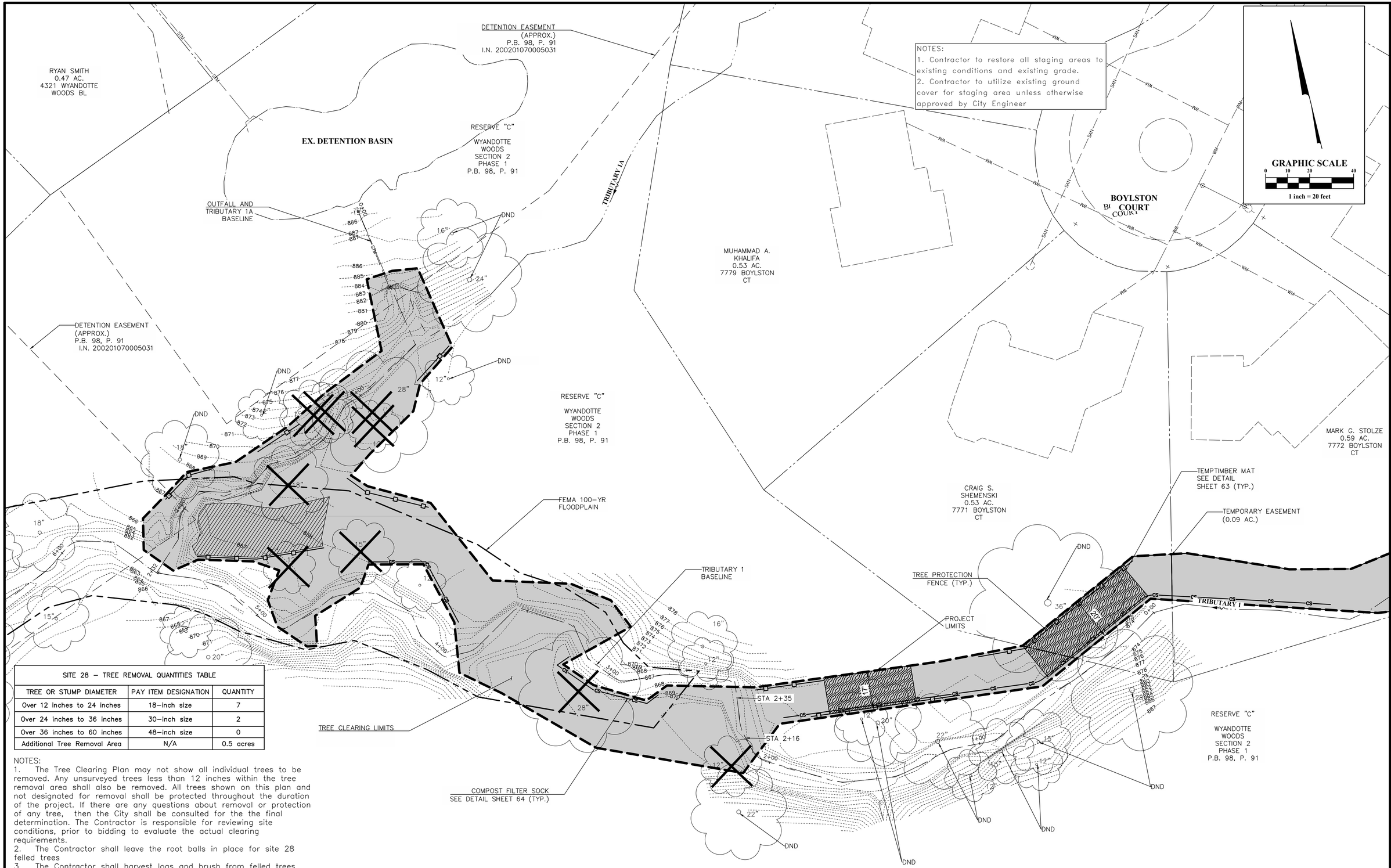


SITE 28 – TREE REMOVAL QUANTITIES TABLE		
TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
Over 12 inches to 24 inches	18–inch size	7
Over 24 inches to 36 inches	30–inch size	2
Over 36 inches to 60 inches	48–inch size	0
Additional Tree Removal Area	N/A	0.5 acres

NOTES:
1. The Tree Clearing Plan may not show all individual trees to be removed. Any unsurveyed trees less than 12 inches within the tree removal area shall also be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there are any questions about removal or protection of any tree, then the City shall be consulted for the the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.
2. The Contractor shall leave the root balls in place for site 28 felled trees
3. The Contractor shall harvest logs and brush from felled trees from sites 25, 27, and 28 for use in construction of the Headwater Channel and the Anchor Logs.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 TREE CLEARING PLAN

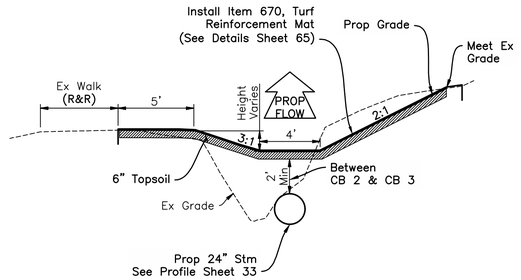
Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
31/97



DETAIL
SITE 25 TYPICAL CHANNEL SECTION (STA 0+75 TO 2+03) 1" = 5'

NOTES:

GEOTEXTILES:
The specified geotextile shall meet the specifications identified on this plan, unless otherwise approved by the Engineer. The specified geotextile shall be North American Green C350 or approved equal.

The geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure prior to placement. Each roll shall be labeled or tagged to provide product identification sufficient for field inventory and quality control purposes. Rolls shall be stored in a manner which provides identification, as well as protection from the elements. If stored outdoors, the rolls shall be elevated and protected with a waterproof cover.

INSTALLATION:
- Item 670, Turf Reinforcement Mat, As Per Plan shall be installed as depicted in the Site 25 Typical Channel Section Details on this sheet and Installation Detail (Sheet 65).
- Stake matting to soil at density of 3.75 staples per square yard.

SEEDING:
See seeding notes on Sheets 04 and seeding zones and native grass seeding tables on Sheet 80.

PLANTING:
See planting notes on Sheets 88–89, planting details on Sheet 87, and planting plan on Sheet 80.

TOPSOIL:
See topsoil notes on Sheet 04. Depth of topsoil placed shall be as follows:

Side slopes & Swale Bottom (as shown in the Site 25 Typical Channel Section Detail on this sheet):
– 6" Min

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 25 DETAILS & NOTES

EMH&T
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

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
32/97

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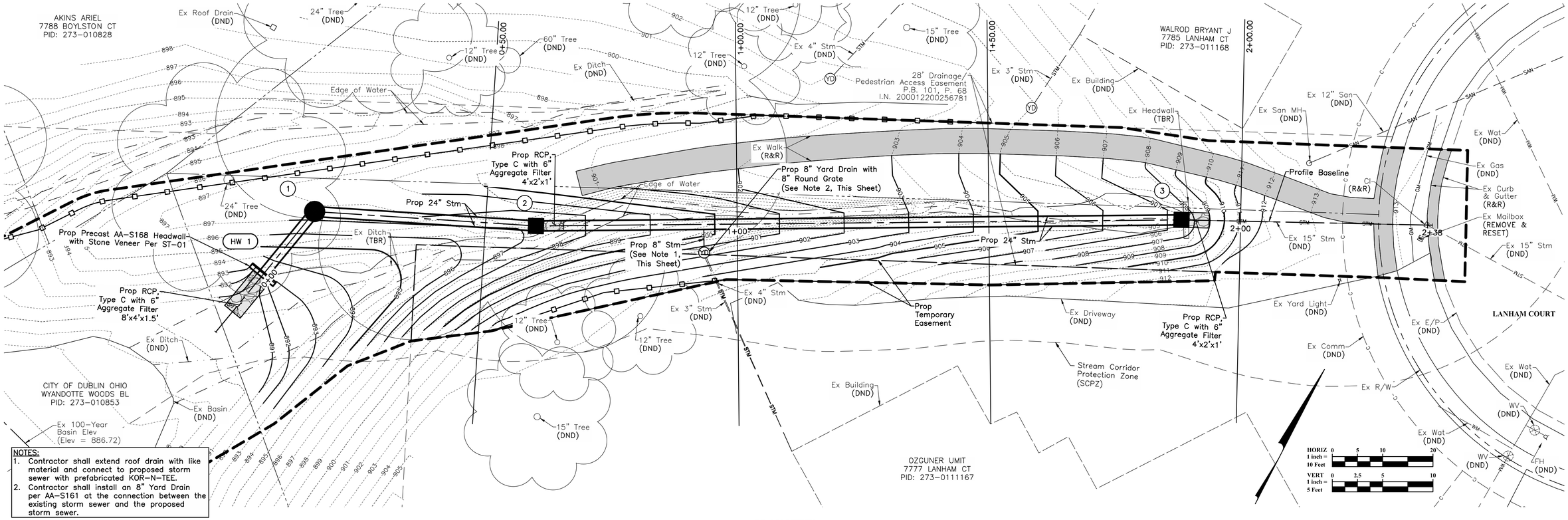
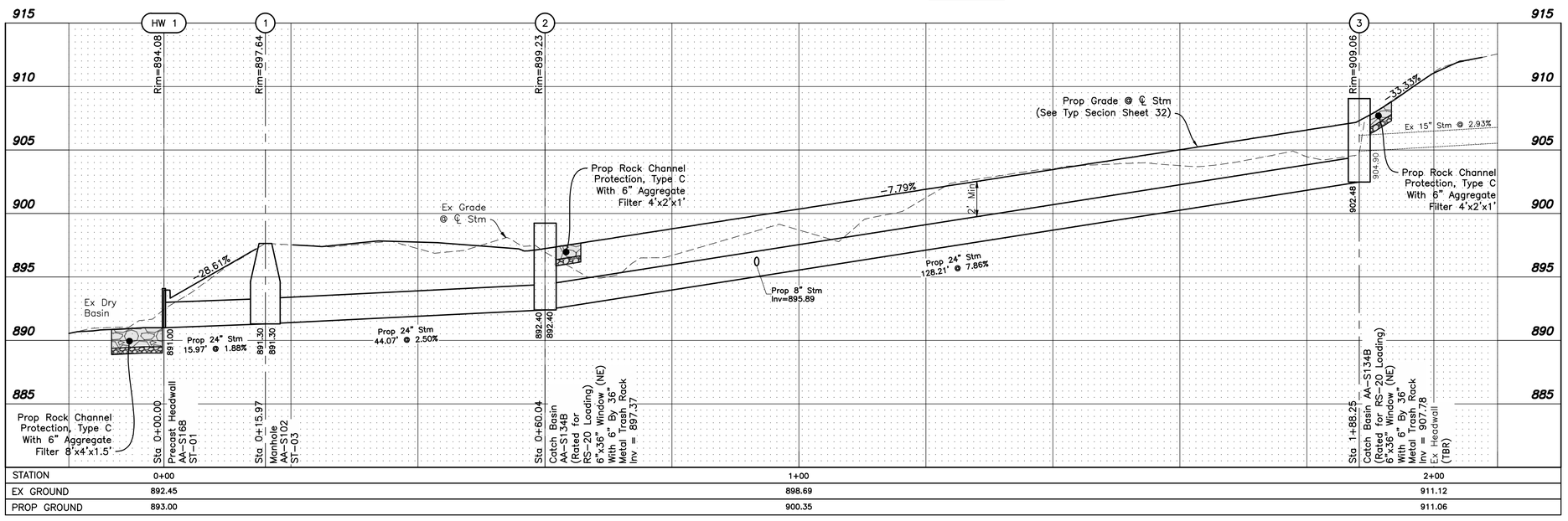


NOTES:
1. Contractor shall extend roof drain with like material and connect to proposed storm sewer with prefabricated KOR-N-TEE.
2. Contractor shall install an 8" Yard Drain per AA-S161 at the connection between the existing storm sewer and the proposed storm sewer.

PLAN VIEW



STATION	0+00	1+00	2+00
EX GROUND	892.45	898.69	911.12
PROP GROUND	893.00	900.35	911.06

PROFILE VIEW

CITY OF DUBLIN STORM SEWER NOTES:

1. The minimum pipe size for private or public storm sewer systems is 12 inches unless authorized by the City Engineer.
2. Minimum requirements for public storm sewer pipe:
   2.a. Reinforced Concrete Pipe
      i. 12 inch – 15 inch: ASTM C76, Wall B, Class IV
      ii. 18 inch – 24 inch: ASTM C76, Wall B, Class III
      iii. 27 inch and larger: ASTM C76, Wall B, Class II
3. Gaskets shall be installed by the 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.
4. Granular Backfill shall be Compacted Granular Material per Item 912 or Low Strength Mortar Backfill per Item 613, Type II.
5. All bedding material shall be in accordance with City of Columbus Standard Construction Drawing AA-S149.
6. Storm inlets and catch basins shall be channelized and have bicycle safe grates. Manhole lids shall include City of Dublin logo. All curb inlets and catch basin grates shall include engraved lettering per City of Dublin Standard Drawing ST-04: "Dump No Waste! Drains to Waterways".
7. Storm sewer outlets 18 inches and greater in diameter accessible from storm water management facilities or watercourses shall include safety grates per City of Dublin Standard Drawing ST-02.
8. Headwalls shall be required at all storm sewer inlets or outlets to and from storm water management facilities, excluding roof drain outlets. Stone veneer and wall caps treatments shall be applied to all exposed concrete surfaces per City of Dublin Standard Drawing ST-01.

STRUCTURE COORDINATES

STRUCTURE #	NORTHING - PLAN	EASTING - PLAN	NORTHING - AS BUILT	EASTING - AS BUILT
1	775717.8841	1800041.7041		
2	775735.4958	1800082.0996		
3	775795.3192	1800195.4993		
HW 1	775702.2701	1800038.3512		

STORM SEWER TABLE

LINE	BEARING	LENGTH	SIZE
3–2	S62°11'11"W	128.21'	24"
2–1	S66°26'38"W	44.07'	24"
1–HW 1	S12°07'11"W	15.97'	24"

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 25 PLAN & PROFILE

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

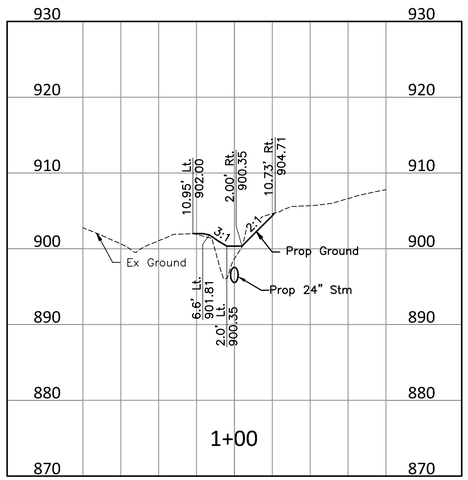
DATE: JUNE 2025

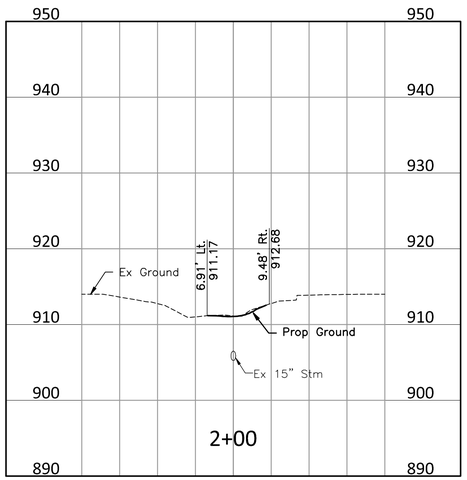
SCALE: Horiz: 1" = 10' Vert: 1" = 5'

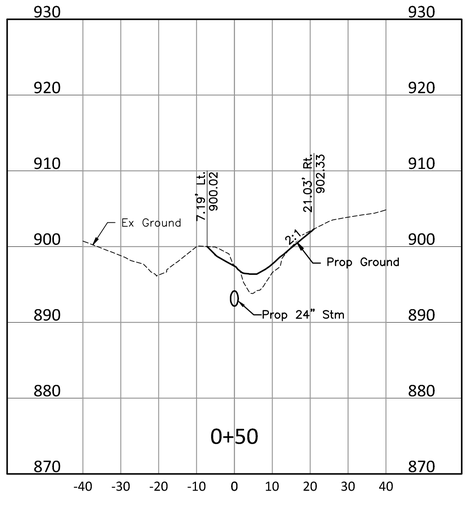
JOB NO.: 2022-0903

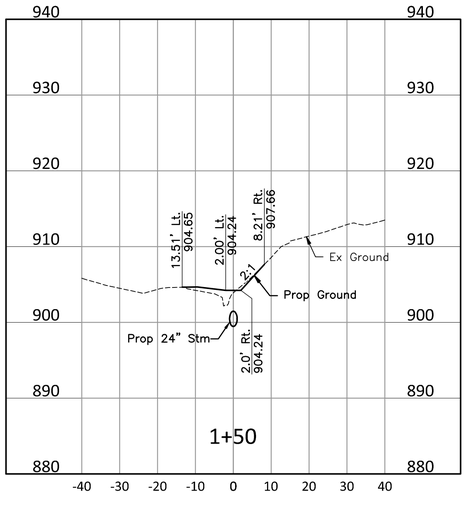
SHEET: 33/97

6/26/2025 11:12 AM (No Xref)
A:\2022\0903\Dwg\04Sheets\PlanYear 2\34 Site 25 Plan & Profile.dgn Last Saved By: alexander 6/26/2025 11:12 AM Last Plotted By: Joseph Alexander 6/26/2025 11:12 AM









REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 25 CROSS SECTIONS

EMH&T
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5500 New Albany Road, Columbus, OH 43054
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DATE
JUNE 2025

SCALE
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SHEET
34/97

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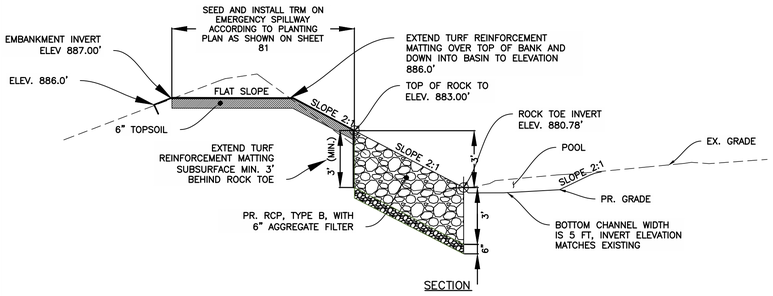


NOTES:

1. ROUGH GRADE IN EMERGENCY SPILLWAY. EXCAVATE TOE DOWN TO SUBGRADE TO ALLOW FOR PLACEMENT OF RCP TYPE B WITH 6" FILTER AGGREGATE PER THE EMERGENCY SPILLWAY WITH ROCK TOE DETAIL.
2. CONSTRUCT ROCK TOE BY FIRST PLACING THE FILTER ROCK IN THE SUBGRADE TRENCH. THEN BUILD THE TOE WITH RCP TYPE B AND THE FILTER ROCK UP TO FINISHED GRADE. EXCAVATE THE POOL IN FRONT OF THE TOE PER THE TYPICAL SECTION.
3. ONCE THE ROCK TOE INSTALLATION NEARS THE UPPER ELEVATIONS, INSTALL THE PERMANENT TURF REINFORCEMENT MAT (TRM) SUCH THAT THE MAT GETS INSTALLED A MINIMUM OF THREE FEET BEHIND THE ROCK TOE. FINISH INSTALLATION OF THE ROCK TOE. REFER TO THE PLAN/PROFILE SHEET (40) FOR EXTENTS OF THE ROCK TOE.
4. CONSTRUCT THE EMERGENCY SPILLWAY, INCLUDING TOPSOIL, SUCH THAT THE OVERALL SLOPE MATCHES THE PROPOSED CROSS SECTION SHAPE.
5. FINISH INSTALLATION OF THE TRM WITHIN THE EXTENTS OF THE EMERGENCY SPILLWAY CHANNEL. THE TRM SHALL EXTEND UP AND OVER THE EMERGENCY SPILLWAY DOWN TO ELEVATION 886.0

TURF REINFORCEMENT MAT:

TURF REINFORCEMENT MAT (TRM) SHALL BE SIMILAR TO NORTH AMERICAN GREEN TMAX HIGH–PERFORMANCE TURF REINFORCEMENT MAT (TRM) AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS INCLUDING MANUFACTURER RECOMMENDED ANCHORS.

SEEDING, PLANTING, AND TOPSOIL:

SEE SEEDING NOTES ON SHEET 04, TOPSOIL SHALL BE PLACED TO A MINIMUM OF 6" ON ALL PROPOSED SURFACES THAT ARE NOT OF ROCK MATERIAL

NO WOODY DEBRIS PLANTING SHALL BE PLANTED ALONG THE SLOPE OF THE EMBANKMENT.

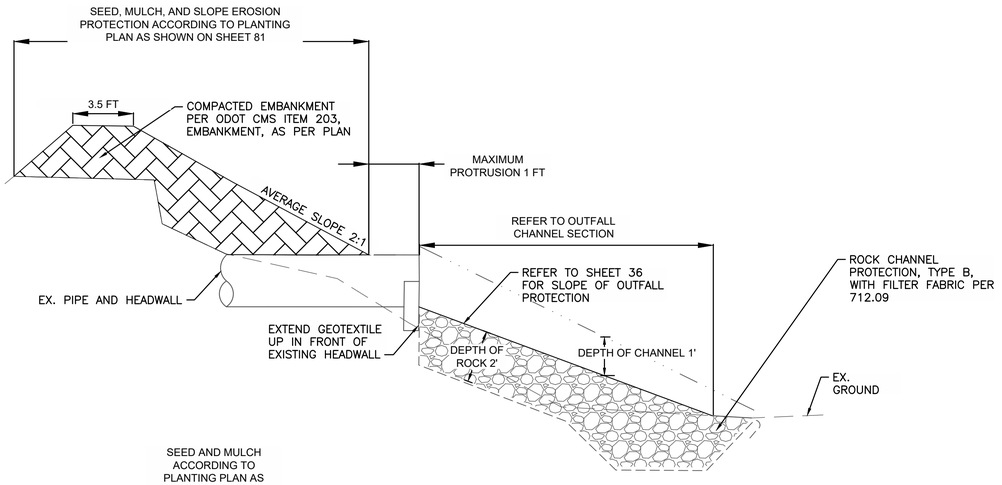
SITE 27 EMERGENCY SPILLWAY WITH ROCK TOE (STA 0+28 TO 0+78)
NOT TO SCALE

INSTALLATION:

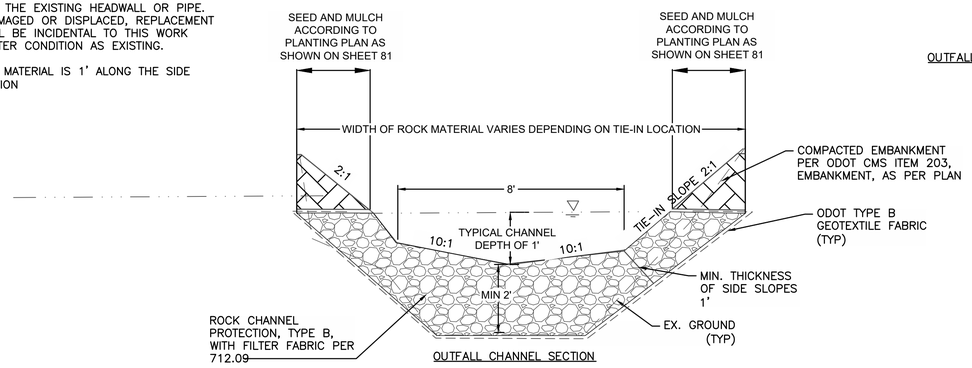
A. THE CONTRACTOR SHALL OVER EXCAVATE FOR PLACEMENT OF OUTFALL PROTECTION AS NECESSARY UP TO 2' BELOW GRADE.
B. THE CONTRACTOR SHALL RECONSTRUCT THE EMBANKMENT TO THE GRADES AND ELEVATIONS SHOWN ON SHEET 40 PER ODOT CMS ITEM 203 EMBANKMENT.
C. ONCE SUBGRADE EXCAVATION IS COMPLETE THE CONTRACTOR SHALL INSTALL ODOT TYPE B GEOTEXTILE FABRIC AND FOLD OVER THE TOP OF THE RCP TO PREVENT PIPING OF MATERIAL THROUGH THE RCP.
D. ODOT TYPE B RCP SHALL BE PLACED ON TOP OF THE GEOTEXTILE FABRIC UNTIL FINAL GRADE IS REACHED.

NOTES:

1. THIS DETAIL DEFINES THE TYPICAL SECTIONS FOR THE OUTFALL PROTECTION AT SITE 27.
2. SUBGRADE EXCAVATION REQUIRED TO INSTALL ROCK MATERIAL IS INCIDENTAL TO CONSTRUCTION.
3. THE CONTRACTOR SHALL USE CAUTION WHEN INSTALLING THE OUTFALL PROTECTION AND RECONSTRUCTION OF THE EMBANKMENT. THE CONTRACTOR SHALL NOT DISTURB THE EXISTING HEADWALL OR PIPE. IF THE HEADWALL OR PIPE IS DAMAGED OR DISPLACED, REPLACEMENT OF THE HEADWALL OR PIPE SHALL BE INCIDENTAL TO THIS WORK AND SHALL BE OF SAME OR BETTER CONDITION AS EXISTING.
4. MINIMUM DEPTH OF PLACED ROCK MATERIAL IS 1' ALONG THE SIDE SLOPES OF THE OUTFALL PROTECTION



OUTFALL PROTECTION WITH EMBANKMENT RECONSTRUCTION TYPICAL PROFILE



OUTFALL CHANNEL SECTION

SITE 27 TYPICAL DETAIL – OUTFALL PROTECTION (STA 0+03.2 TO 0+31.6)
NOT TO SCALE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 27 DETAILS

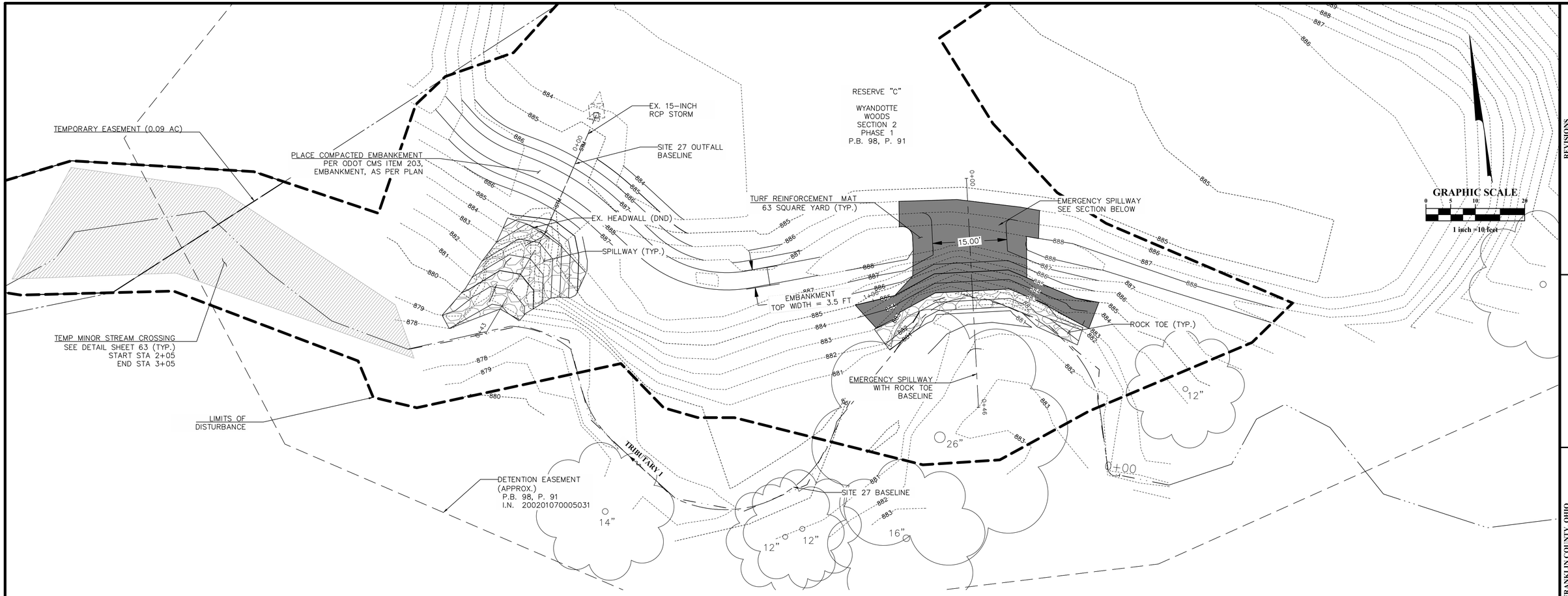
Stantec

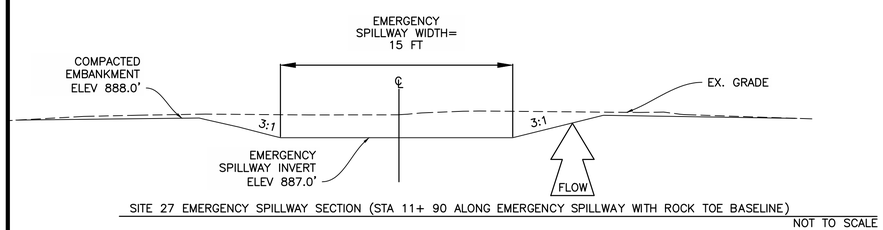
DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

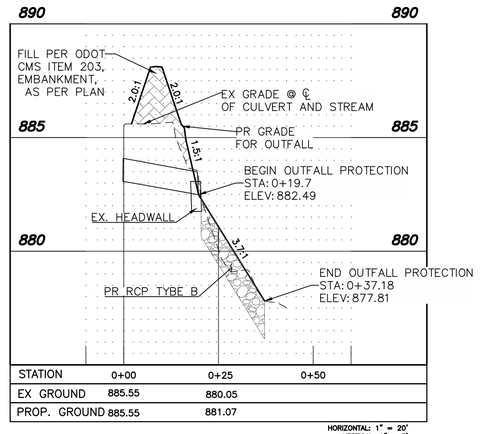
SHEET
35/97





SITE 27 EMERGENCY SPILLWAY SECTION (STA 11+ 90 ALONG EMERGENCY SPILLWAY WITH ROCK TOE BASELINE)

NOT TO SCALE



SITE 27 OUTFALL BASELINE PROFILE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 27 PLAN & PROFILE

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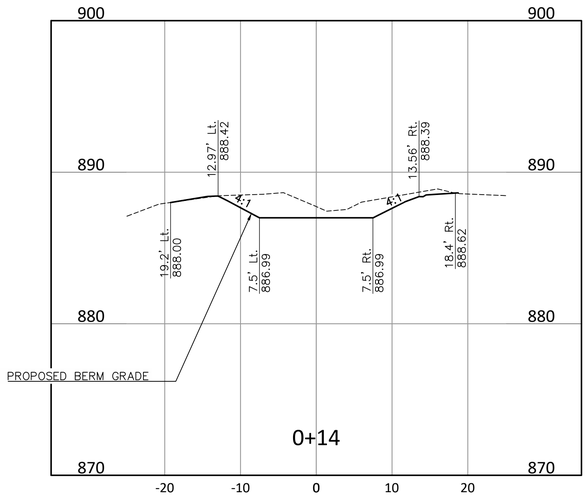
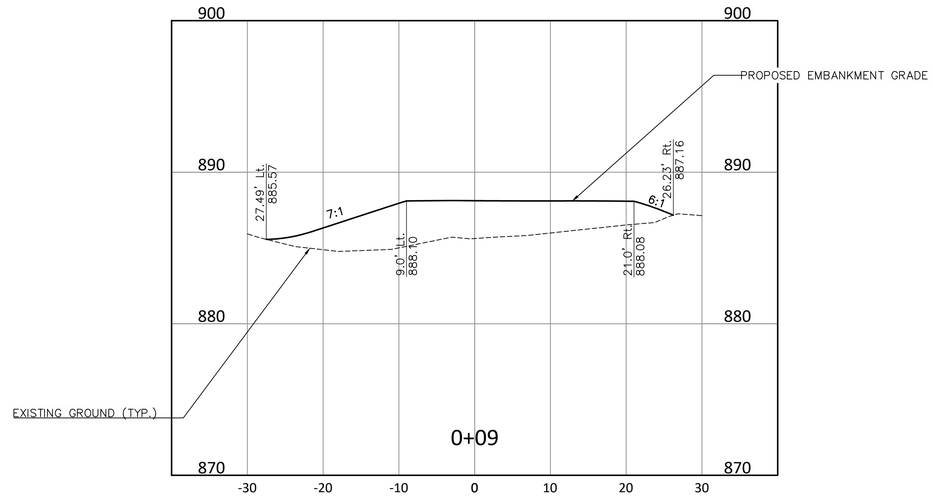
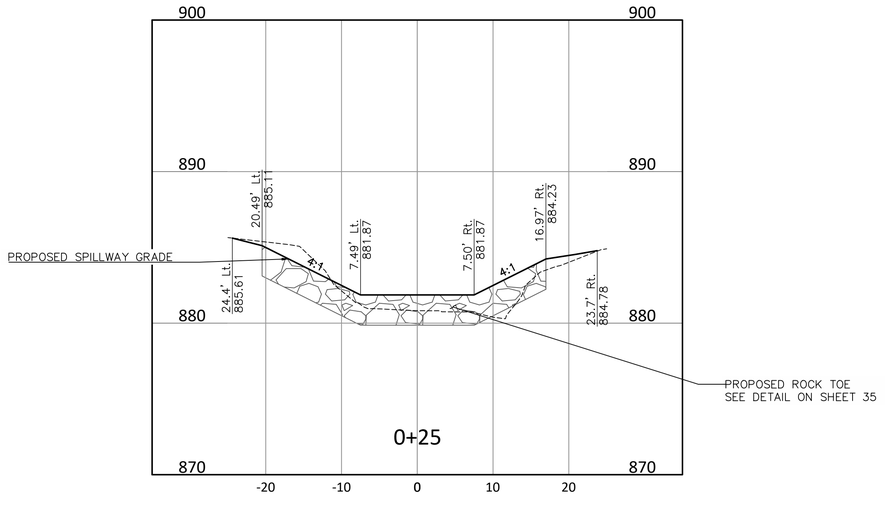
36/97



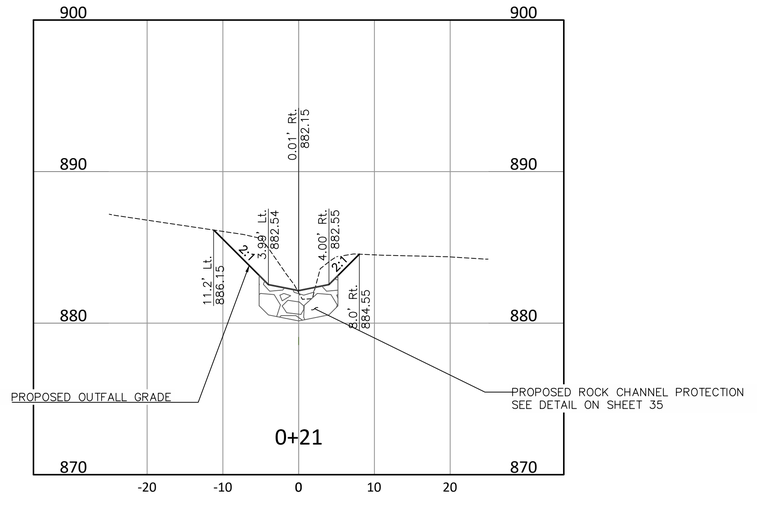
EMERGENCY SPILLWAY
CROSS-SECTION 1



OUTFALL
CROSS-SECTION 1



EMERGENCY SPILLWAY
CROSS-SECTION 1



OUTFALL
CROSS-SECTION 2

1"=10' HORIZ.
1"=5' VERT.

REVISIONS

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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 27 CROSS-SECTIONS

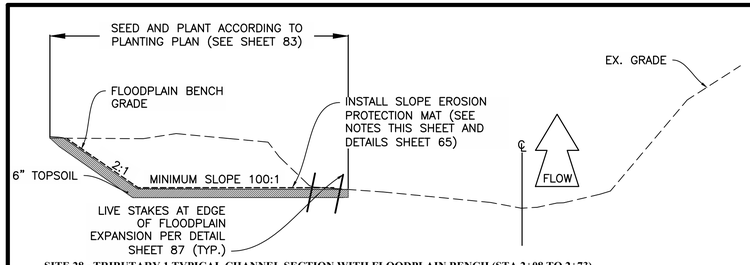
Stantec

DATE
JUNE 2025

SCALE
1" = 10'

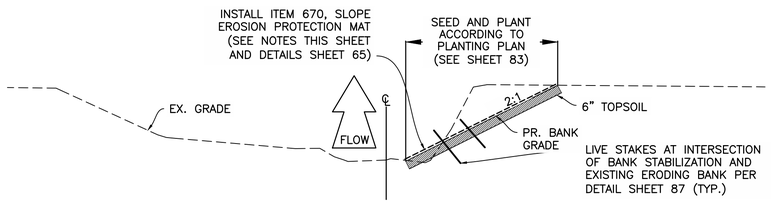
JOB NO.
2022-0903

SHEET
37/97



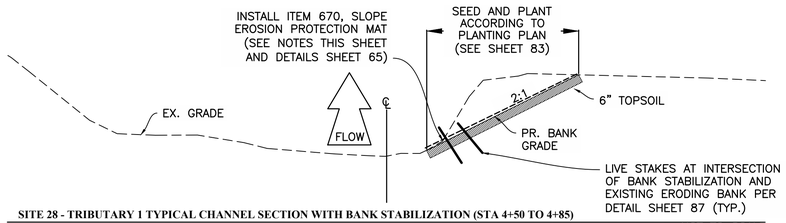
SITE 28 - TRIBUTARY 1 TYPICAL CHANNEL SECTION WITH FLOODPLAIN BENCH (STA 2+08 TO 2+73)

NOT TO SCALE



SITE 28 - TRIBUTARY 1 TYPICAL CHANNEL SECTION WITH BANK STABILIZATION (STA 3+33 TO 3+84)

NOT TO SCALE



SITE 28 - TRIBUTARY 1 TYPICAL CHANNEL SECTION WITH BANK STABILIZATION (STA 4+50 TO 4+85)

NOT TO SCALE

TYPICAL SECTION NOTES:

SLOPE EROSION PROTECTION MAT (SEP):

THE SPECIFIED SEP SHALL MEET THE SPECIFICATIONS IDENTIFIED ON THIS PLAN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE SEP SHALL BE FURNISHED WITH SUITABLE WRAPPING FOR PROTECTION AGAINST MOISTURE AND EXTENDED ULTRAVIOLET PRIOR TO PLACEMENT. EACH ROLL SHALL BE LABELED OR TAGGED TO PROVIDE PRODUCT IDENTIFICATION SUFFICIENT FOR FIELD INVENTORY AND QUALITY CONTROL PURPOSES. ROLLS SHALL BE STORED IN A MANNER WHICH PROVIDES IDENTIFICATION, AS WELL AS PROTECTION FROM THE ELEMENTS. IF STORED OUTDOORS, THE ROLLS SHALL BE ELEVATED AND PROTECT WITH A WATERPROOF COVER.

INSTALLATION:

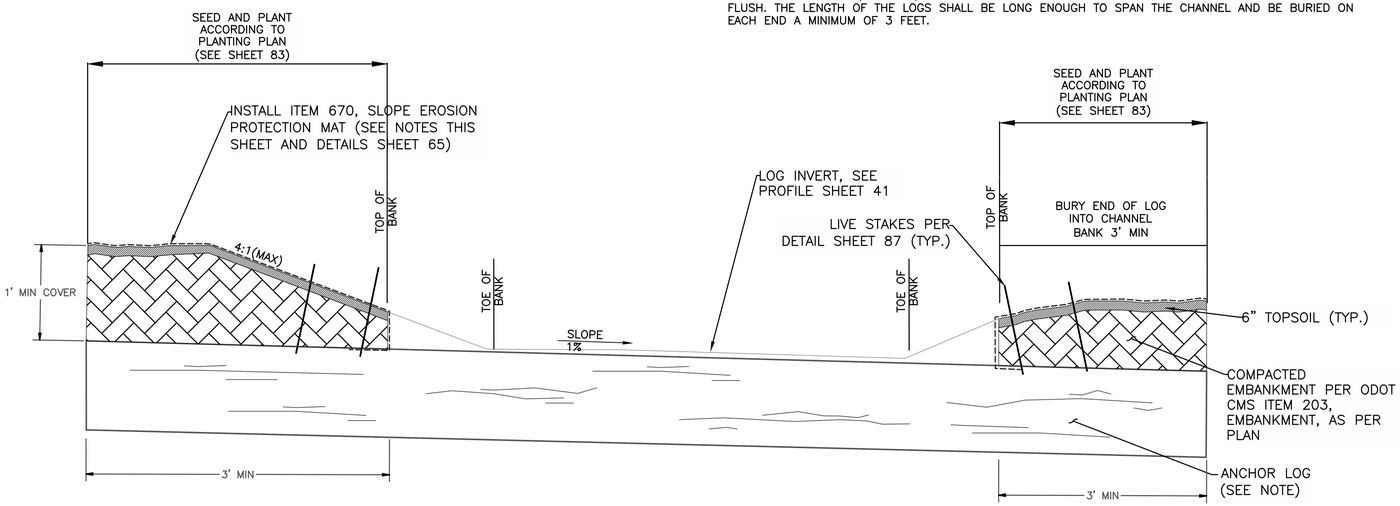
- ITEM 670, SLOPE EROSION PROTECTION MAT SHALL BE INSTALLED ON DISTURBED GROUND ABOVE AS DEPICTED IN THE SITE 28 TYPICAL SECTION ON THIS SHEET, THE SITE 28 PLANTING PLAN, SHEETS 82–83, AND INSTALLATION DETAIL, SHEET 65.
- STAKE BLANKET TO SOIL AT A DENSITY OF 3.75 WOOD STAKES PER SQUARE YARD. ONLY WOOD STAKES SHALL BE USED TO SECURE THE BLANKET.

SEEDING:

SEE PLANTING NOTES ON SHEETS 88–89, PLANTING DETAILS ON SHEET 87, AND PLANTING PLANS ON SHEET 82–83.

TOP SOIL:

SEE TOPSOIL NOTES ON SHEET 04. DEPTH OF TOPSOIL PLACED SHALL BE 6.0" MINIMUM AS SHOWN ON THE DETAIL ON THIS SHEET.



DETAIL TRIBUTARY 1
ANCHOR LOG

NOT TO SCALE

ANCHOR LOG NOTES:

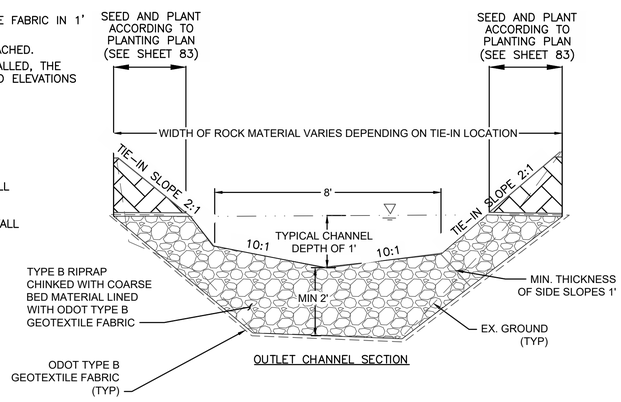
1. ANCHOR LOGS SHALL BE PLACED WITH AN UPWARD SLOPE IN THE DOWNSTREAM DIRECTION (OPPOSITE OF THE AVERAGE SLOPE OF THE CHANNEL). THE ENDS OF THE ANCHOR LOGS SHALL EXTEND BEYOND THE CHANNEL A MINIMUM OF 3 FEET AND HAVE A MINIMUM OF 1 FOOT OF COVER.
2. ANCHOR LOGS SHALL BE HARVESTED FROM FELLED TREES. THEY SHALL HAVE A DIAMETER OF 16" TO 24" AND BE FREE OF ROT, CRACKS, AND BREAKS. LOGS SHALL BE RELATIVELY STRAIGHT WITH LIMBS CUT FLUSH. THE LENGTH OF THE LOGS SHALL BE LONG ENOUGH TO SPAN THE CHANNEL AND BE BURIED ON EACH END A MINIMUM OF 3 FEET.

INSTALLATION:

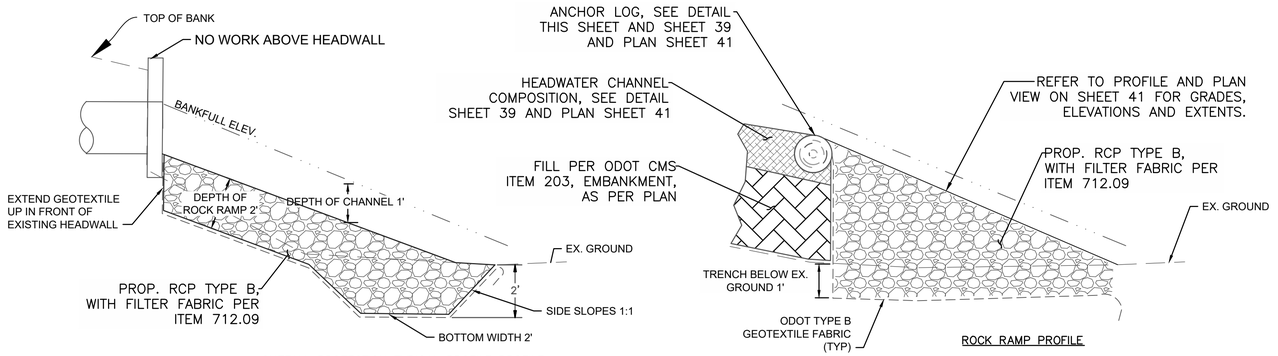
A. OUTFALL AND ROCK RAMP INSTALLATION SHALL PROCEED FROM DOWNSTREAM TO UPSTREAM.
B. THE CONTRACTOR SHALL OVER EXCAVATE FOR PLACEMENT OF OUTFALL PROTECTION AND ROCK RAMPS AS NECESSARY UP TO MINIMUM 2' BELOW GRADE.
C. AFTER EXCAVATION LIMITS HAVE BEEN REACHED THE CONTRACTOR SHALL INSTALL ODOT TYPE B GEOTEXTILE FABRIC AND FOLD OVER THE TOP OF THE RCP TO PREVENT ANY PIPING OF MATERIAL THROUGH THE RCP.
D. ODOT TYPE B RIPRAP SHALL BE PLACED ON TOP OF THE GEOTEXTILE FABRIC IN 1' LIFTS.
E. THE CONTRACTOR SHALL REPEAT STEP D. UNTIL FINAL GRADE IS REACHED.
F. AFTER OUTFALL PROTECTION AND THE ROCK RAMP HAS BEEN INSTALLED, THE CONTRACTOR SHALL RECONSTRUCT THE BANKS TO THE GRADES AND ELEVATIONS SHOWN ON SHEET 41

NOTES:

1. THIS DETAIL DEFINES THE TYPICAL SECTIONS FOR THE OUTFALL PROTECTION AND ROCK RAMP AT SITE 28.
2. CONSTRUCTION OF THE OUTFALL PROTECTION AND ROCK RAMP SHALL FOLLOW THIS DETAIL.
3. THE CONTRACTOR SHALL USE CAUTION WHEN INSTALLING THE OUTFALL PROTECTION. THE CONTRACTOR SHALL NOT DISTURB THE EXISTING HEADWALL OR PIPE. IF THE HEADWALL OR PIPE IS DAMAGED OR DISPLACED, REPLACEMENT OF THE HEADWALL OR PIPE SHALL BE INCIDENTAL TO THIS WORK AND SHALL BE OF SAME OR BETTER CONDITION AS EXISTING.
4. OVER–EXCAVATION REQUIRED TO INSTALL RCP IS INCIDENTAL TO CONSTRUCTION
5. MINIMUM DEPTH OF PLACED RCP IS 1' ALONG THE SIDE SLOPES OF THE OUTFALL PROTECTION AND ROCK RAMP.



OUTLET CHANNEL SECTION



OUTFALL PROTECTION TYPICAL PROFILE PROFILE

ROCK RAMP PROFILE

DETAIL OUTFALL AND TRIBUTARY 1A
SITE 28 TYPICAL DETAIL OF OUTFALL PROTECTION (STA 0+37 TO 0+66) AND ROCK RAMP (STA 2+04 TO 2+24)
NOT TO SCALE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 DETAILS

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DATE
JUNE 2025

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2022-0903

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38/97

GENERAL NOTES:

1. THE HEADWATER CHANNEL (TRIBUTARY 1A) WILL CONSIST OF 119 LF OF CHANNEL WITH A CHANNEL WIDTH OF APPROXIMATELY 4 FT, A MAXIMUM RIFFLE DEPTH OF 0.4 FT, A BED WIDTH OF 3 FT.
2. REFER TO THE PLAN/PROFILE SHEETS ON SHEET 41 FOR SPATIAL LOCATION.
3. A MINIMUM OF 8 ANCHOR LOGS AND SCOUR POOLS SHALL BE INSTALLED ALONG THE HEADWATER CHANNEL.
4. ANCHOR LOGS SHALL BE PLACED WITH A UPWARD SLOPE IN THE DOWNSTREAM DIRECTION (OPPOSITE OF THE AVERAGE SLOPE OF THE CHANNEL). THE ENDS OF THE ANCHOR LOGS SHALL EXTEND BEYOND THE CHANNEL A MINIMUM OF 3 FEET AND HAVE A MINIMUM OF 1 FOOT OF COVER.
5. RECENTLY HARVESTED LOGS DURING CLEARING OF THE PROJECT LIMITS WITH A LENGTH OF 10 TO 14 FT AND 16" TO 24" DIAMETER SHALL BE USED AS ANCHOR LOGS. THE LOGS SHALL BE FREE OF ROT, CRACKS, AND BREAKS. ALL LIMBS SHALL BE TRIMMED FLUSH.
6. ONSITE SOIL FROM OVER EXCAVATION AND GRAVEL HARVESTED ON-SITE WITHIN THE EXISTING CHANNEL ALONG THE OUTFALL AND TRIBUTARY 1A BASELINE MAY BE USED IN THE HEADWATER CHANNEL COMPOSITION IF IT MEETS THE GRADATIONS SPECIFIED IN THIS SHEET.
7. SCOUR POOLS SHALL HAVE A DEPTH OF 0.7' AS MEASURED FROM THE INVERT ELEVATION OF THE UPSTREAM ANCHOR LOG, A WIDTH OF 1.0' TO 1.5' AND A LENGTH OF 3.0' TO 5.0'.

SEEDING:

SEE PLANTING NOTES ON SHEETS 88-89, PLANTING DETAILS ON SHEET 87, AND PLANTING PLANS ON SHEETS 82-83.

TOP SOIL:

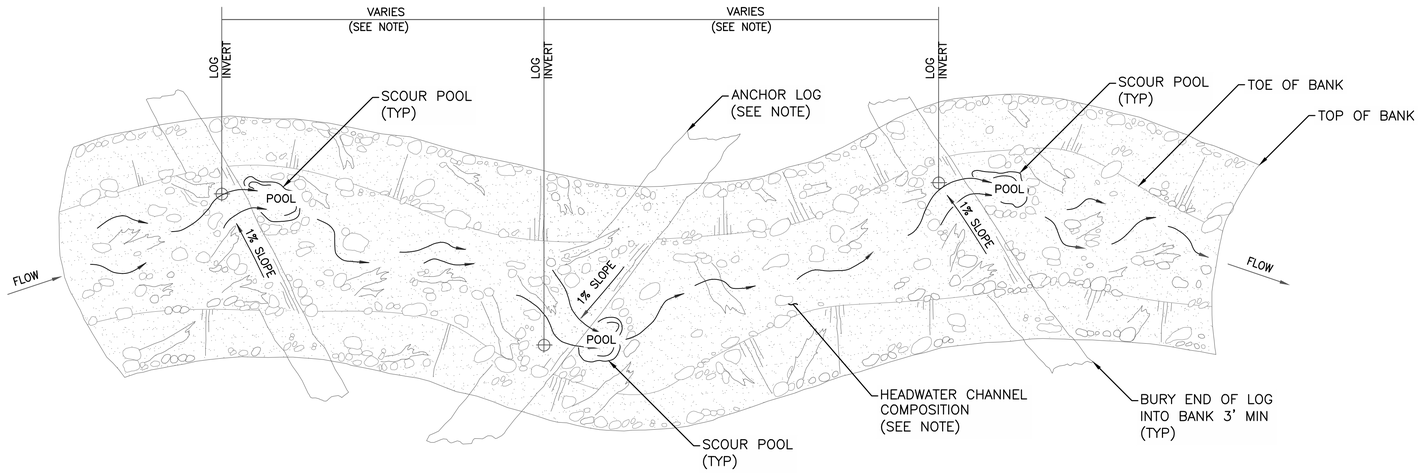
SEE TOPSOIL NOTES ON SHEET 04. DEPTH OF TOPSOIL PLACED SHALL BE 6.0" MINIMUM AS SHOWN ON THE DETAIL ON THIS SHEET.

INSTALLATION:

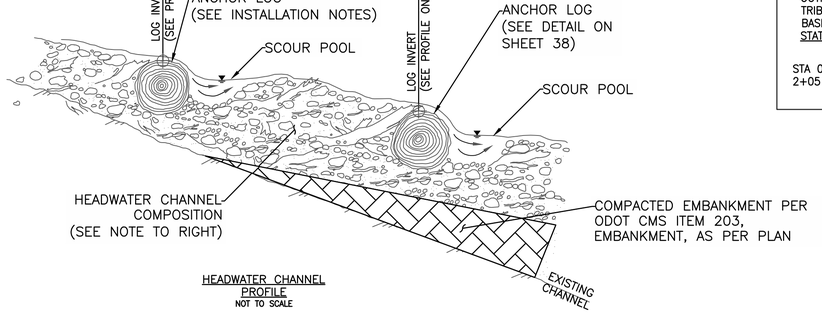
A. BEFORE INSTALLATION OF MATERIAL, USABLE SOIL, BRUSH, LOGS, AND GRAVEL-SIZED MATERIAL SHALL BE HARVESTED ON-SITE TO THE EXTENT POSSIBLE FOR CONSTRUCTION OF THE HEADWATER CHANNEL.
B. THE CONTRACTOR SHALL FIRST SET UP THE TEMPORARY PUMP AROUND AS DETAILED ON THE SITE 28 EROSION AND SEDIMENT CONTROL SHEET, SHEET 72.
C. THE DOWNSTREAM ROCK RAMP SHALL THEN BE CONSTRUCTED PER THE STANDARD DETAIL ON SHEET 38 AND PER THE LOCATIONS, GRADES, AND ELEVATIONS ON SHEET 41.
D. THE CONTRACTOR SHALL THEN BEGIN TO FILL THE EXISTING TRIBUTARY 1A CHANNEL PER ODOT CMS ITEM 203 EMBANKMENT PER THE LOCATIONS, GRADES, AND ELEVATIONS AS SHOWN ON SHEET 45. THE CONTRACTOR MAY ELECT TO PERFORM ITEMS C AND D CONCURRENTLY TO PROPERLY INSTALL THE ITEMS AS SHOWN ON THE PLANS.
E. THE CONTRACTOR SHALL THEN MIX AND STOCKPILE THE TWO HEADWATER CHANNEL COMPOSITIONS, DETAILED IN THE HEADWATER CHANNEL COMPOSITION NOTES ON THIS SHEET, FOR INSPECTION BY THE CITY.

UPON APPROVAL, THE CONTRACTOR MAY BEGIN INSTALLATION OF THE HEADWATER CHANNEL AND ANCHOR LOGS.

F. PLACEMENT OF ANCHOR LOGS AND CHANNEL MATERIAL SHALL PROCEED FROM UPSTREAM TO DOWNSTREAM.
G. BACKFILL CHANNEL WITH SPECIFIED HEADWATER CHANNEL COMPOSITION UP TO THE BOTTOM ELEVATION OF THE ANCHOR LOG.
H. INSTALL THE ANCHOR LOG.
I. BACKFILL THE ANCHOR LOG WITH SPECIFIED HEADWATER CHANNEL COMPOSITION.
J. FORM SCOUR POOL DOWNSTREAM OF THE INVERT OF THE LOG WITHIN THE BED WIDTH, TO A MINIMUM DEPTH OF 0.7' AS MEASURED FROM THE INVERT ELEVATION OF THE UPSTREAM ANCHOR LOG, A WIDTH OF 1.0' TO 1.5' AND A LENGTH OF 3.0' TO 5.0'.
K. REPEAT STEPS H THROUGH J UNTIL THE TRIBUTARY 1A CHANNEL FORMATION IS COMPLETE.



HEADWATER CHANNEL
PLAN
NOT TO SCALE

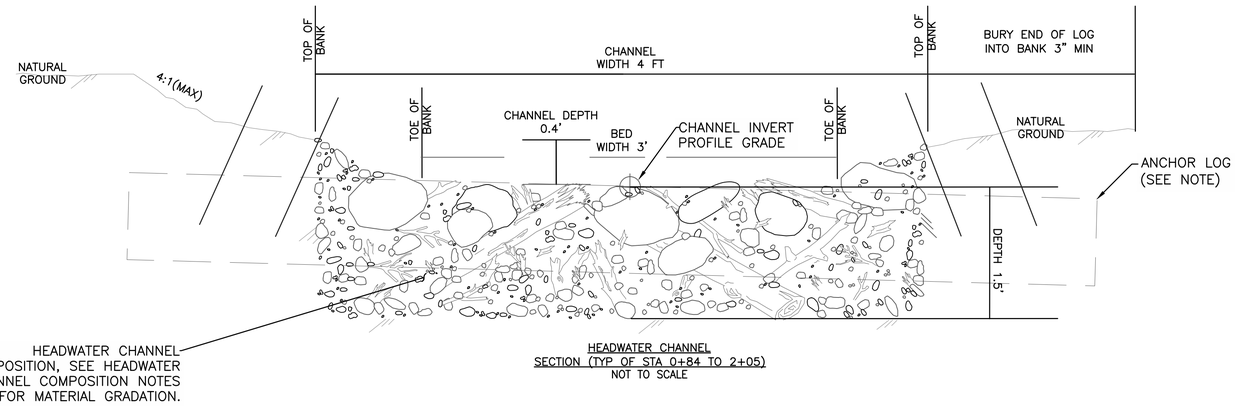


HEADWATER CHANNEL
PROFILE
NOT TO SCALE

HEADWATER CHANNEL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CONFIGURATIONS:

OUTFALL AND TRIBUTARY 1A BASELINE STATIONING	LOG SPACING AND DIAMETER	DEPTH	COMPOSITION BY VOLUME	
STA 0+84 TO 2+05	PER PLAN @16"-24"	1.5FT	SOIL (ON-SITE)	10% (5.1 CY)
			BRUSH (MIN 4-6" DIA)	50% (25.1 CY)
			GRAVEL (HARVESTED ON-SITE)	20% (10.0 CY)
			4" TO 6" STONE (IMPORTED)	20% (10.0 CY)

HEADWATER CHANNEL
COMPOSITION TABLE



HEADWATER CHANNEL
SECTION (TYP OF STA 0+84 TO 2+05)
NOT TO SCALE

DETAIL
SITE 28 HEADWATER CHANNEL (STA 0+84 TO 2+05)
NOT TO SCALE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 DETAILS

Stantec

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
39/97

GRAPHIC SCALE
0 2.5 5 10
1 inch =10 feet

LAY CHANNEL BANK BACK AT A 2:1 SLOPE STA 4+50 TO 4+85

TRIBUTARY 1 BASELINE

TOP OF LOG STA 4+74 EL 862.70

TRIBUTARY 1

LIMITS OF DISTURBANCE

LAY CHANNEL BANK BACK AT A 2:1 SLOPE STA 3+33 TO 3+84

ANCHOR LOG (TYP.)

TOP OF LOG STA 3+85 EL 864.57

TOP OF LOG STA 3+22 EL 866.25

TRIBUTARY 1 BASELINE

100 YR FEMA FLOODPLAIN

FLOODPLAIN EXPANSION STA 2+08 TO 2+73

TIE INTO EXISTING GROUND AT A 2:1 SLOPE

DND

TREE PROTECTION FENCE (TYP.)

CONTRACTOR SHALL USE TIMBER MATS WITHIN DRIP LINES OF EXISTING TREES TO REMAIN SEE DETAIL SHEET 63 (TYP.)

COMPOST FILTER SOCK SEE DETAIL SHEET 64 (TYP.)

RESERVE "C"
WYANDOTTE WOODS SECTION 2 PHASE 1 P.B. 98, P. 91

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 PLAN

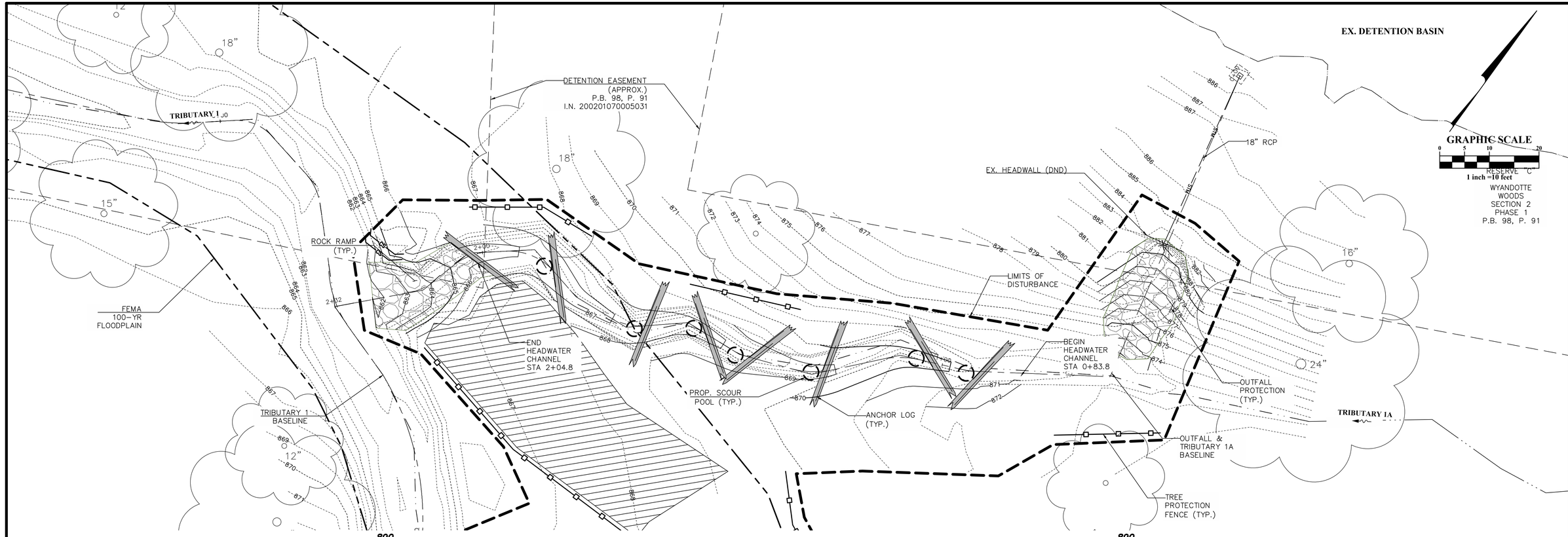
Stantec

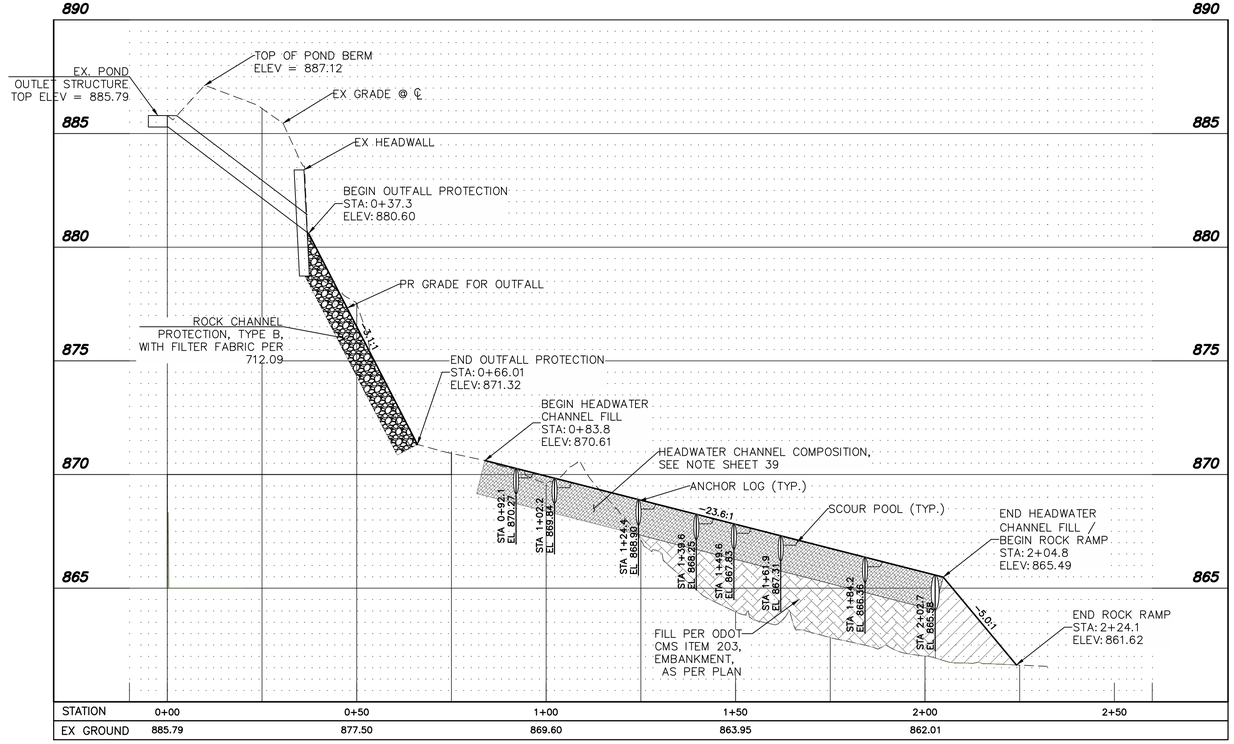
DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
40/97





H: 1" = 20'
V: 1.5" = 5'

OUTFALL AND TRIBUTARY 1A
BASELINE PROFILE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 PLAN & PROFILE

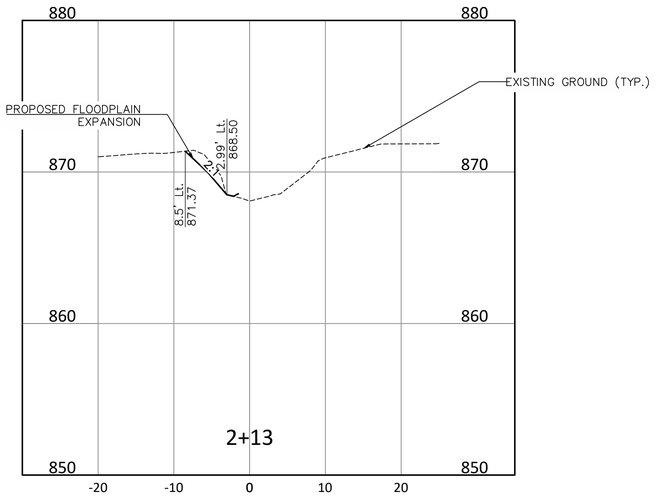
Stantec

DATE
JUNE 2025

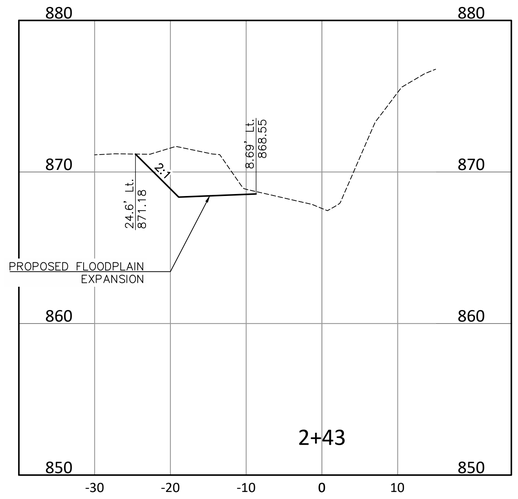
SCALE
AS NOTED

JOB NO.
2022-0903

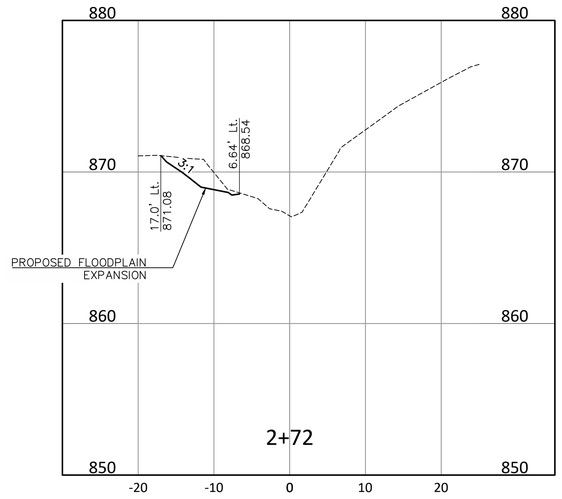
SHEET
41/97



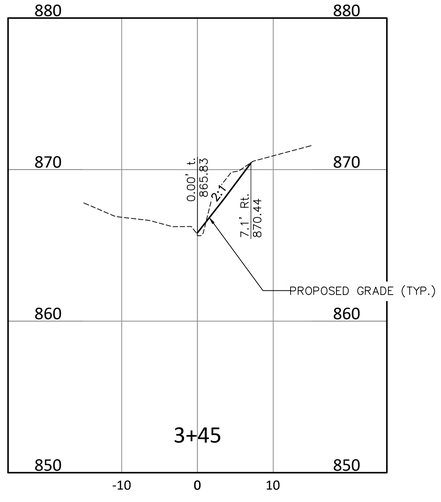
TRIBUTARY 1 FLOODPLAIN EXPANSION
CROSS-SECTION 1



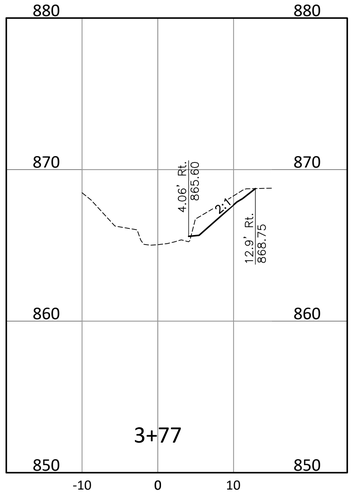
TRIBUTARY 1 FLOODPLAIN EXPANSION
CROSS-SECTION 2



TRIBUTARY 1 FLOODPLAIN EXPANSION
CROSS-SECTION 3



TRIBUTARY 1 BANK STABILIZATION 1
CROSS-SECTION 1



TRIBUTARY 1 BANK STABILIZATION 1
CROSS-SECTION 2

1"=10' HORIZ.
1"=5' VERT.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 CROSS-SECTIONS

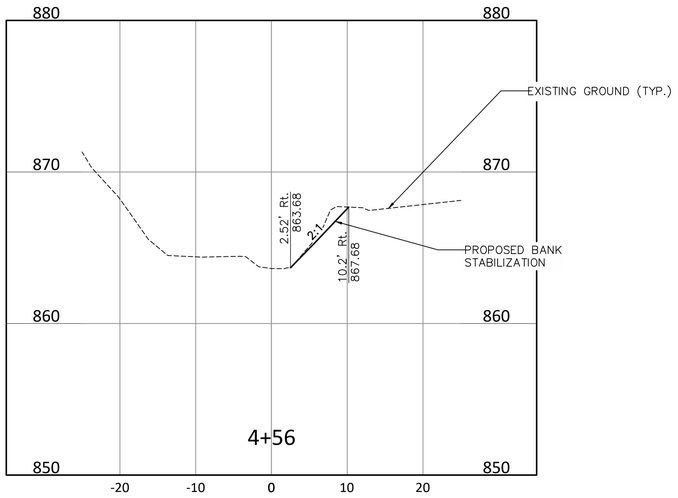
Stantec

DATE
JUNE 2025

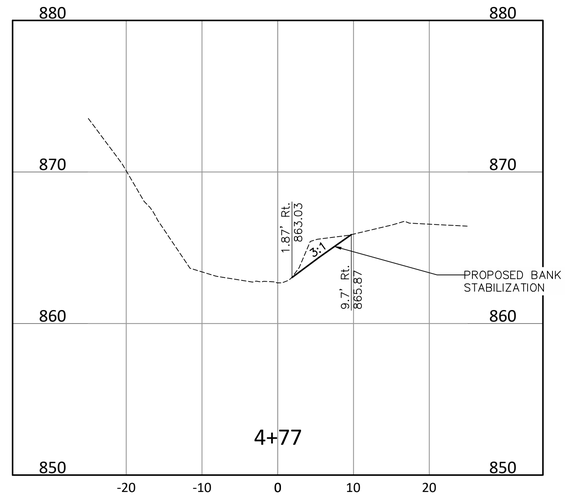
SCALE
1" = 10'

JOB NO.
2022-0903

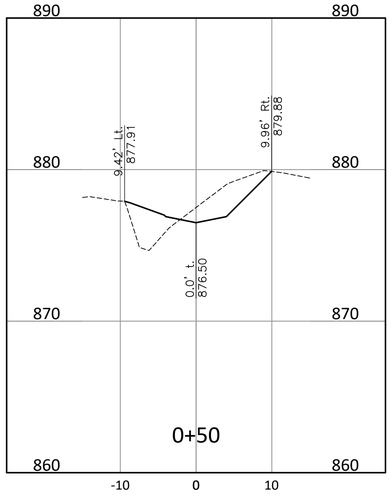
SHEET
42/97



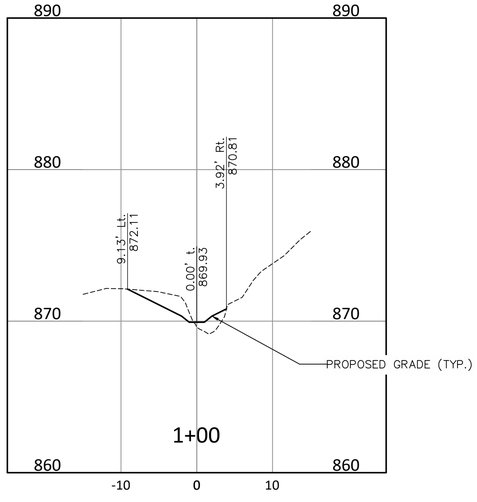
TRIBUTARY 1 BANK STABILIZATION 2
CROSS-SECTION 1



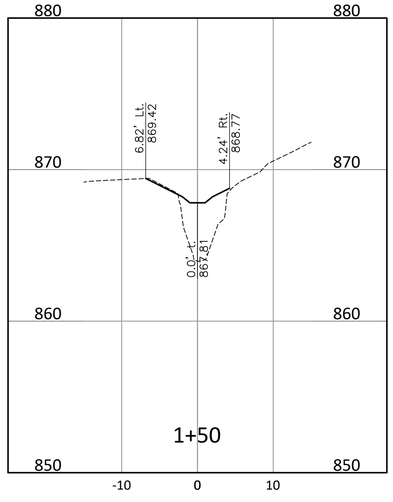
TRIBUTARY 1 BANK STABILIZATION 2
CROSS-SECTION 2 (STA 4+77)



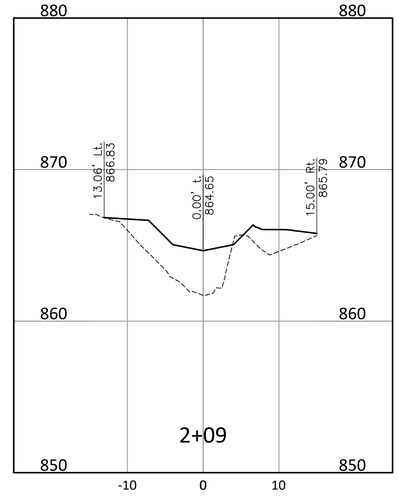
TRIBUTARY 1A HEADWATER CHANNEL FILL
CROSS-SECTION 1



TRIBUTARY 1A HEADWATER CHANNEL FILL
CROSS-SECTION 2



TRIBUTARY 1A HEADWATER CHANNEL FILL
CROSS-SECTION 3



TRIBUTARY 1A ROCK RAMP
CROSS-SECTION

1"=10' HORIZ.
1"=5' VERT.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 CROSS-SECTIONS

Stantec

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
43/97

NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.

WYNER WILLIAM
6291 OLIVIA CT
PID: 273-010309

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

CITY OF DUBLIN
RESERVE K
PID: 273-011069

CITY OF DUBLIN
RINGSEND CT
PID: 273-011255

KEPP KEVIN A
8068 LOMBARD WY
PID: 273-011061

STROMINGER
TERRANCE A
8060 LOMBARD WY
PID: 273-011062

RANC ROBERT EDWIN
8076 LOMBARD WY
PID: 273-011060

WU JUN
8084 LOMBARD WY
PID: 273-011059

MENON TARA
8067 LOMBARD WY
PID: 273-011063

NOVISKY BRENDAN
6623 GREENSWAY LOOP
PID: 273-007812

ABU-SALEH
MOHAMMAD A
8056 LOMBARD WY
PID: 273-011237

LEE DAMIAN J
8048 LOMBARD WY
PID: 273-011239

CARBALLO EMMANUEL
SANCHEZ
8052 LOMBARD WY
PID: 273-011238

Stream Corridor
Protection Zone
(SCPZ)

FEMA 100-Year
Floodplain Limits

Ex 4" Clay Pipe

Ex 6" Plastic Pipe

Ex Bush Row
(DND)

Ex SUP
(DND)

Ex Wall
(DND)

Ex Bollard
(DND)

Ex Handrail
(DND)

Ex Edge
of Water

TRIBUTARY I-2

Tree Protection Fencing

Drainage Easement
P.B. 101, P. 10

Drainage Easement
P.B. 103, P. 6

Temporary
Construction
Access

20' Min.

Temporary Fencing Shall be
Placed at a 1 Foot Minimum
Distance From Property Line.

Temp Staging
Area with
Construction
Fencing

Easement
P.B. 101, P. 10

10' Easement
P.B. 84, P.84

Ex Trail
(R&R 21 Feet Per RD-06 Shared
Use Path: Standard and Heavy Duty.
Cost to be Included in the Bid Item
for Item 253, Spot Full Depth
Asphalt Repair, Trail, As Per Plan.)

Ex Sidewalk
(R&R 20 Feet Per RD-05 Concrete Sidewalk and Shared Use
Path. Cost to be Included in the Bid Item for Item 253,
Sidewalk Removed and Replaced (Concrete), As Per Plan.)
Ex Straight Curb
(R&R 20 Feet Per RD-11 Straight 18" Concrete Curb. Cost
to be Included in the Bid Item for Item 609, Remove and
Replace Straight Curb, As Per Plan.)

LOMBARD WAY

GREENSWAY
LOOP

MATCH LINE - SEE SHEET 45

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 44A ACCESS PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Cell Phone: 614.775.4500 Toll Free: 888.775.3648
Phone: 614.775.4500 emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
44/97

J:\2022\0903\Data\Plotsheets\Plan\Year 2\15_Site_44B&C_Access_Plan.dwg, Last Saved By: rbascarella, 6/12/2025 4:39 PM, Last Plotted By: rbascarella, 6/16/2025 4:39 PM (No Xrefs)

NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.

Stream Corridor Protection Zone (SCPZ)
FEMA 100-Year Floodplain Limits
CITY OF DUBLIN SHANNON GLEN BL PID: 273-010028
Ex SUP (DND)
8'
12" Tree (TBR)
Ex Bush Row (DND)
14" Tree (DND)
15" Tree (TBR)
TRIBUTARY I-2
15" Tree (DND)
Ex Bush Row Temp Staging Area with Construction Fencing (DND)
Temporary Construction Access
20' Min.
Ex Storm (DND)
16" Tree (TBR)
14" Tree (TBR)
Drainage Easement P.B. 103, P. 6
Access Route Continues Within Channel From Upstream Entrance Point
MATCH LINE - SEE SHEET 44
MATCH LINE - SEE SHEET 46
CITY OF DUBLIN RINGSEND CT PID: 273-011255
CAO HONG 8044 LOMBARD WY PID: 273-011240
HAO XUEJING 8040 LOMBARD WY PID: 273-011241
FEMA 100-Year Floodplain Limits
CITY OF DUBLIN SHANNON GLEN BL PID: 273-010028
Stream Corridor Protection Zone (SCPZ)
Note: Basin Contours Shown were Developed from GIS Data
Normal Pool = 912.50 (NGVD29) (94-021-RES)
GIROUX KELLY 6466 RINGSEND CT PID: 273-011247
HOUPT JOHN M 6458 RINGSEND CT PID: 273-011248
KIM MYUNG J 6474 RINGSEND CT PID: 273-011246
NELSON PAUL JR 6482 RINGSEND CT PID: 273-011245
RAVIPATI VENU 8036 LOMBARD WY PID: 273-011242
LEONG CHI KIN 6490 RINGSEND CT PID: 273-011244
WOOD CHARLES M 8024 LOMBARD WY PID: 273-007817
LOMBARD WAY
RINGSEND COURT
15' Easement P.B. 103, P. 6

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

MARK	DATE	DESCRIPTION

REVISIONS

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A ACCESS PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, Ohio 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
45/97

J:\2022\0903\Dwg\04Sheets\Plan\Year 2025 Site 44BAC Access Plan.dgn Last Saved By: bascarello 6/12/2025 4:49 PM Last Plotted By: bascarello 6/16/2025 4:40 PM (No Xrefs)

NOTES:
1. Contractor to restore all staging areas to existing conditions and existing grade.
2. Contractor to utilize existing ground cover for staging area unless otherwise approved by City Engineer.

MATCH LINE – SEE SHEET 45

PRAKEL NANCY S TR
8119 SHANNON GLEN BL
PID: 273-010303

RAI RAJNISH
8123 SHANNON GLEN BL
PID: 273-010304

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

CITY OF DUBLIN
RINGSEND CT
PID: 273-011255

GIROUX KELLY
6466 RINGSEND CT
PID: 273-011247

HOUPT JOHN M
6458 RINGSEND CT
PID: 273-011248

HICKS JOSHUA A
6450 RINGSEND CT
PID: 273-011249

DOAN CHI-HUNG
6442 RINGSEND CT
PID: 273-011250

AL-TAMIM RAED S
6434 RINGSEND CT
PID: 273-011251

ABU-SALEH WALID
6426 RINGSEND CT
PID: 273-011252

BROTHERS MERRILL M
6418 RINGSEND CT
PID: 273-011253

RINGSEND COURT

FEMA 100-Year Floodplain Limits

FEMA Floodway & 100-Year Floodplain Limits

Stream Corridor Protection Zone (SCPZ)

TRIBUTARY 1-2

Ex SUP (DND)

Ex Edge of Water

Ex Stump (TBR)

Ex Wall (DND)

Ex Bush Row (DND)

Ex Wood Deck (DND)

Ex Stm (DND)

Ex Ditch (DND)

Drainage Easement P.B. 103, P. 6

15' Easement P.B. 106, P. 6

20' Min.

Temporary Construction Access

Temp Staging Area with Construction Fencing

Ex Curb & Gutter
(R&R 21 Feet Per RD-02 Combination Concrete Curb and Gutter. Cost to be Included in the Bid Item for Item 609, Remove and Replace Concrete Curb and Gutter, As Per Plan.)
Ex Sidewalk
(R&R 21 Feet Per RD-05 Concrete Sidewalk and Shared Use Path. Cost to be Included in the Bid Item for Item 253, Sidewalk Removed and Replaced (Concrete), As Per Plan.)

NORTH FORK INDIAN RUN

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B&C ACCESS PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
46/97

I:\2022\0903\Dwg\04Sheets\PlanView 2-15 Site 44B&C Access Plan.dwg, last Saved By ajmann, 6/26/2025 11:15 AM, last Plotted By ajmann, 6/26/2025 11:16 AM (No Xrefs)

WYNER WILLIAM
6291 OLIVIA CT
PID: 273-010309

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

CITY OF DUBLIN
RESERVE K
PID: 273-011069

CITY OF DUBLIN
RINGSEND CT
PID: 273-011255

KEPP KEVIN A
8068 LOMBARD WY
PID: 273-011061

STROMINGER
TERRANCE A
8060 LOMBARD WY
PID: 273-011062

WU JUN
8084 LOMBARD WY
PID: 273-011059

MENON TARA
8067 LOMBARD WY
PID: 273-011063

NOVISKY BRENDAN
6623 GREENSWAY LOOP
PID: 273-007812

ABU-SALEH
MOHAMMAD A
8056 LOMBARD WY
PID: 273-011237

LEE DAMIAN J
8048 LOMBARD WY
PID: 273-011239

CARBALLO EMMANUEL
SANCHEZ
8052 LOMBARD WY
PID: 273-011238

LOMBARD WAY

GREENSWAY LOOP

Stream Corridor
Protection Zone
(SCPZ)

FEMA 100-Year
Floodplain Limits

Ex 4" Clay Pipe

Ex 6" Plastic Pipe

Ex Bush Row
(DND)

Ex SUP
(DND)

Ex Wall
(DND)

Ex Bollard
(DND)

Ex Handrail
(DND)

Ex Edge
of Water

TRIBUTARY I-2

0+00

1+00

2+00

3+00

4+00

5+00

6+00

Additional Tree Removal Area
(0.075 Acres)

Drainage Easement
P.B. 101, P. 10

Drainage Easement
P.B. 103, P. 6

Easement
P.B. 101, P. 10

10' Easement
P.B. 84, P.84

MATCH LINE - SEE SHEET 48

NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 44A - TREE REMOVAL QUANTITIES TABLE

TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	3
Over 12 inches to 24 inches	18-inch size	1
Over 24 inches to 36 inches	30-inch size	0
Over 36 inches to 60 inches	48-inch size	0
Additional Tree Removal Area	N/A	0.075 acres

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A TREE CLEARING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
47/97

C:\Projects\2022\0903\Dwg\04Sheets\PlanView 2025 Site 44\Trees_Site 44.dgn 6/16/2025 4:40 PM (No Xref's)
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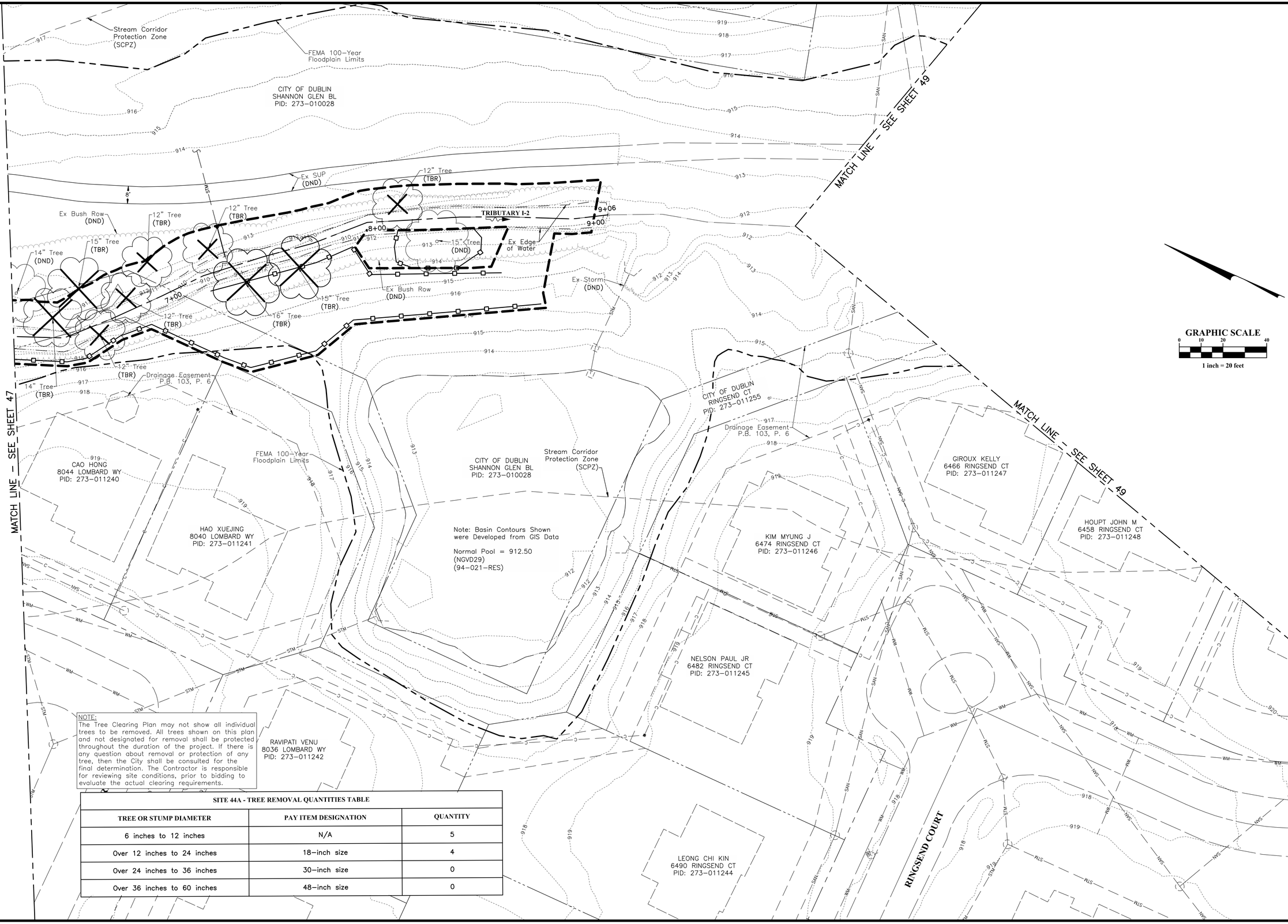


NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 44A - TREE REMOVAL QUANTITIES TABLE

TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	5
Over 12 inches to 24 inches	18-inch size	4
Over 24 inches to 36 inches	30-inch size	0
Over 36 inches to 60 inches	48-inch size	0

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A TREE CLEARING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, Ohio 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
48/97

J:\2022\0903\Dwg\04Streets\Plan\Year 2025 Site 44\BC Tree Clearing Plan.dwg, Last Saved By: mcrete, 6/17/2025 1:23 PM, Last Printed By: Bascarello, Jaclyn, 6/18/2025 4:40 PM (No Xrefs)

MATCH LINE – SEE SHEET 48

PRAKEL NANCY S TR
8119 SHANNON GLEN BL
PID: 273-010303

RAI RAJNISH
8123 SHANNON GLEN BL
PID: 273-010304

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

CITY OF DUBLIN
RINGSEND CT
PID: 273-011255

GIROUX KELLY
6466 RINGSEND CT
PID: 273-011247

HOUPT JOHN M
6458 RINGSEND CT
PID: 273-011248

HICKS JOSHUA A
6450 RINGSEND CT
PID: 273-011249

DOAN CHI-HUNG
6442 RINGSEND CT
PID: 273-011250

AL-TAMIM RAED S
6434 RINGSEND CT
PID: 273-011251

ABU-SALEH WALID
6426 RINGSEND CT
PID: 273-011252

BROTHERS MERRILL M
6418 RINGSEND CT
PID: 273-011253

RINGSEND COURT

FEMA 100-Year Floodplain Limits

FEMA Floodway & 100-Year Floodplain Limits

Stream Corridor Protection Zone (SCPZ)

Ex Edge of Water

Ex SUP (DND)

Ex Stump (TBR)

Ex Wall (DND)

Ex Bush Row (DND)

Ex Wood DECK (DND)

Ex Stm (DND)

Ex Ditch (DND)

Drainage Easement P.B. 103, P. 6

15' Easement P.B. 106, P. 6

TRIBUTARY 1-2

0+00

0+50

1+00

1+10

2+00

2+69

Additional Tree Removal Area (0.152 Acres)

NORTH FORK INDIAN RUN

16" Tree (DND)
14" Tree (DND)
15" Tree (DND)
18" Tree (TBR)
30" Tree (DND)
24" Tree (DND)
12" Tree (DND)
12" Tree (TBR)
13" Trees (TBR)
13" Tree (DND)

NOTE:
The Tree Clearing Plan may not show all individual trees to be removed. All trees shown on this plan and not designated for removal shall be protected throughout the duration of the project. If there is any question about removal or protection of any tree, then the City shall be consulted for the final determination. The Contractor is responsible for reviewing site conditions, prior to bidding to evaluate the actual clearing requirements.

SITE 44B &C - TREE REMOVAL QUANTITIES TABLE

TREE OR STUMP DIAMETER	PAY ITEM DESIGNATION	QUANTITY
6 inches to 12 inches	N/A	2
Over 12 inches to 24 inches	18-inch size	4
Over 24 inches to 36 inches	30-inch size	0
Over 36 inches to 60 inches	48-inch size	0
Additional Tree Removal Area	N/A	0.152 acres

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B&C TREE CLEARING PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll free: 888.775.3648
emht.com

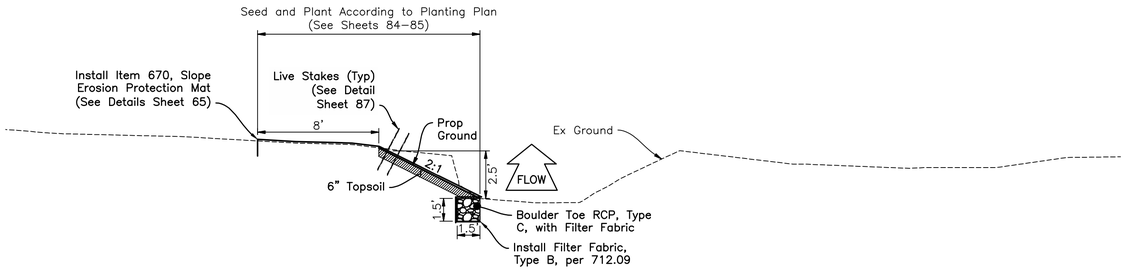
DATE
JUNE 2025

SCALE
1" = 20'

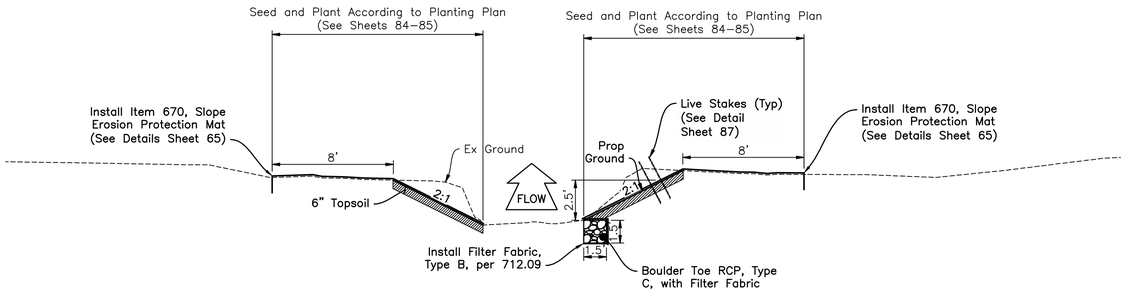
JOB NO.
2022-0903

SHEET
49/97

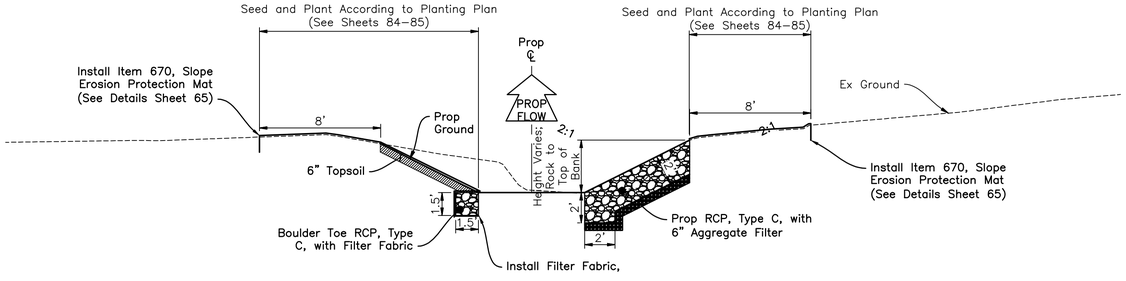
N:\2022\0903\Dwg\Design\Plan\Year 2025 Site 44B&C Tree Clearing Plan.dwg, Last Saved By: rmcree, 6/12/2025 1:23 PM, Last Plotted By: Hasan Alexandria, 6/26/2025 11:17 AM (No Xrefs)



DETAIL
SITE 44A TYPICAL CHANNEL SECTION (STA 0+27.65 TO 2+69.80, 4+49.69 TO 5+56.37, AND 7+86.84 TO 8+88.30) H&V: 1" = 5'



DETAIL
SITE 44A TYPICAL CHANNEL SECTION (STA 3+40.96 TO 4+49.69) H&V: 1" = 5'



DETAIL
SITE 44A TYPICAL CHANNEL SECTION (STA 5+68.51 TO 7+86.84) H&V: 1" = 5'

NOTES:

BOULDER TOE:
1.0 Material:
The boulder toe material may consist of quarried limestone. Recycled concrete is not permitted. The Contractor shall review samples of this material with the City for approval prior to installation. The size of this material shall be consistent with the gradation of Type "C" Rock Channel Protection, per CMS Item 703.19.

2.0 Installation:
The boulder toe material shall be embedded into the channel along the toe of the stream outer bends, as depicted in the Site 44A Typical Channel Section Details (this sheet). Filter fabric material per ODOT Item 712.09, Type "B", shall be included in the construction of the boulder toe reinforcement, as demonstrated in the Site 44A Typical Channel Section Details, this sheet.

GEOTEXTILES:
The specified geotextile shall meet the specifications identified on this plan, unless otherwise approved by the City.

The geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure prior to placement. Each roll shall be labeled or tagged to provide product identification sufficient for field inventory and quality control purposes. Rolls shall be stored in a manner which provides identification, as well as protection from the elements. If stored outdoors, the rolls shall be elevated and protected with a waterproof cover.

INSTALLATION:
- Item 670, Slope Erosion Protection Mat, As Per Plan shall be installed as depicted in the Site 44A Typical Channel Section Details on this sheet and Installation Detail (Sheet 65).
- Stake matting to soil at density of 3.75 staples per square yard.

SEEDING:
See seeding notes on Sheets 04 and seeding zones and native grass seeding tables on Sheets 84 and 85.

PLANTING:
See planting notes on Sheets 88–89, planting details on Sheet 87, and planting plans on Sheets 84 and 85.

TOPSOIL:
See topsoil notes on Sheet 04. Depth of topsoil placed shall be as follows:

Side slopes (as shown in the Site 44A Typical Channel Section Details on this sheet):
– 6" Min

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 44A DETAILS & NOTES

EMHT
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

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
50/97

N:\2022\0903\Dwg\04Sheets\Plans\Geo_2A43_Site 44Ref_Details & Notes.dwg, Last Saved By: rbascarello, 6/12/2025 4:17 PM, Last Plotted: By: rbascarello, 6/16/2025 4:40 PM (No Xrefs)

CITY OF DUBLIN
6295 OLIVIA CT
PID: 273-010314

Stream Corridor Protection Zone (SCPZ) Off Page

FEMA 100-Year Floodplain Limits Off Page

Ex SUP (DND)

Ex Bush Row (DND)

Grading Start Sta=0+27.65

0+00

0+70.00

TRIBUTARY L-2

1+00

1+20.00

Prop Yard Drain (See Note 1 – This Sheet)

Ex 4" Clay Pipe

1+70.00

Profile Baseline

Prop 4" PVC Stm (Truncate Outlet at Channel Bank)

2+00

2+20.00

Ex Bush Row (DND)

Ex 6" Plastic Pipe

Prop Yard Drain (See Note 1 – This Sheet)

Prop 6" PVC Stm (Truncate Outlet at Channel Bank)

TRIBUTARY L-2

Ex SUP (DND)

MATCH LINE STA. 3+00 – SEE SHEET 52

Edge of Water

Grading End Sta=2+69.80

3+00

12" Tree (DND)

14" Tree (DND)

16" Tree (DND)

18" Tree (DND)

15" Tree (DND)

13" Tree (DND)

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

20'

CITY OF DUBLIN
RESERVE K
PID: 273-011069

Drainage Easement P.B. 101, P. 10 Off Page

Stream Corridor Protection Zone (SCPZ) Off Page

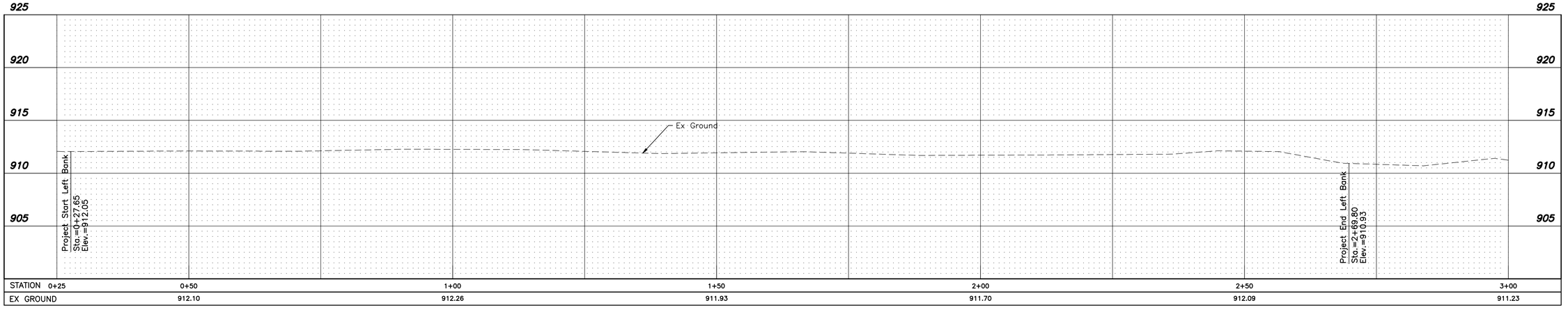
FEMA 100-Year Floodplain Limits Off Page

PLAN VIEW

NOTES:
1. Contractor shall install a 4" or 6" Yard Drain, as specified, per AA-S161 at the connection between the existing storm sewer and the proposed storm sewer.

HORIZ 1 inch = 10 Feet (0, 5, 10, 20)

VERT 1 inch = 5 Feet (0, 2.5, 5, 10)



STATION	0+25	0+50	1+00	1+50	2+00	2+50	3+00
EX GROUND		912.10	912.26	911.93	911.70	912.09	911.23

PROFILE VIEW

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A PLAN & PROFILE

EMHT
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Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
51/97

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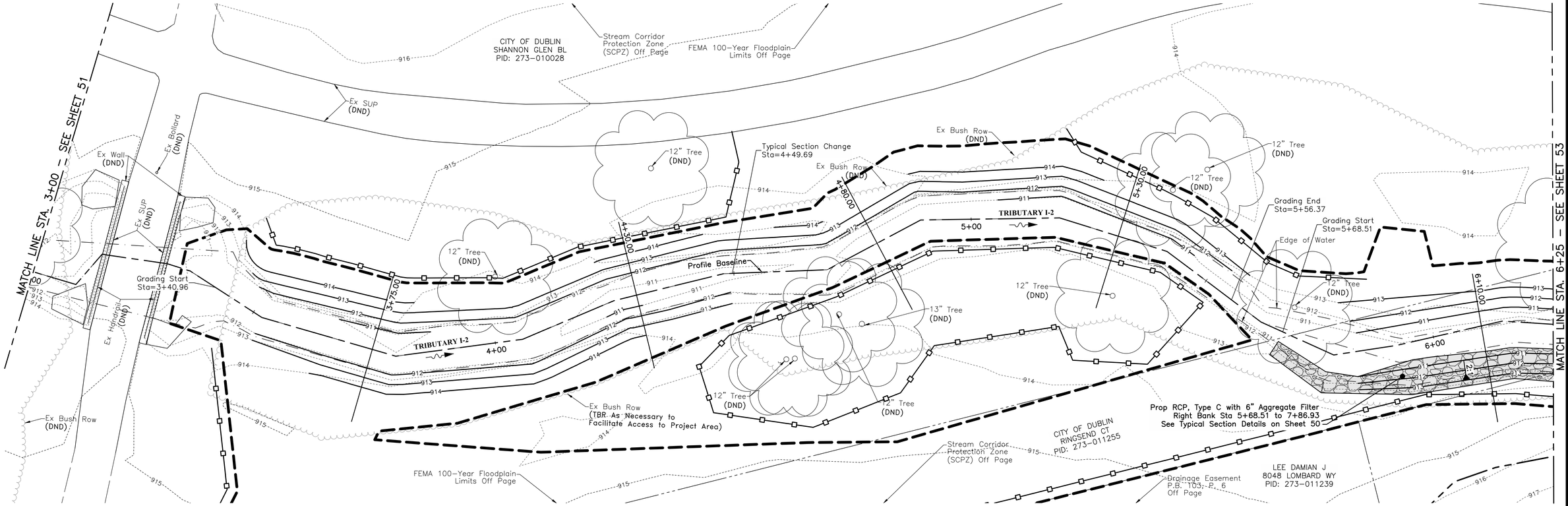
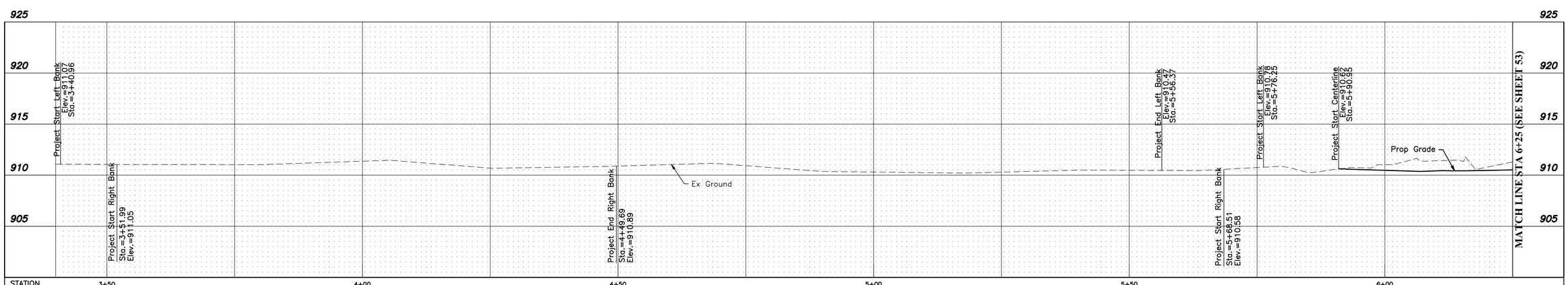


PLAN VIEW



STATION	3+50	4+00	4+50	5+00	5+50	6+00	
EX GROUND	911.05	911.37	910.89	910.31	910.48	911.03	911.30
PROP GROUND						910.48	910.53

PROFILE VIEW

HORIZ 1 inch = 10 Feet (0, 5, 10, 20)

VERT 1 inch = 5 Feet (0, 2.5, 5, 10)

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A PLAN & PROFILE

EMH&T
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

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
52/97

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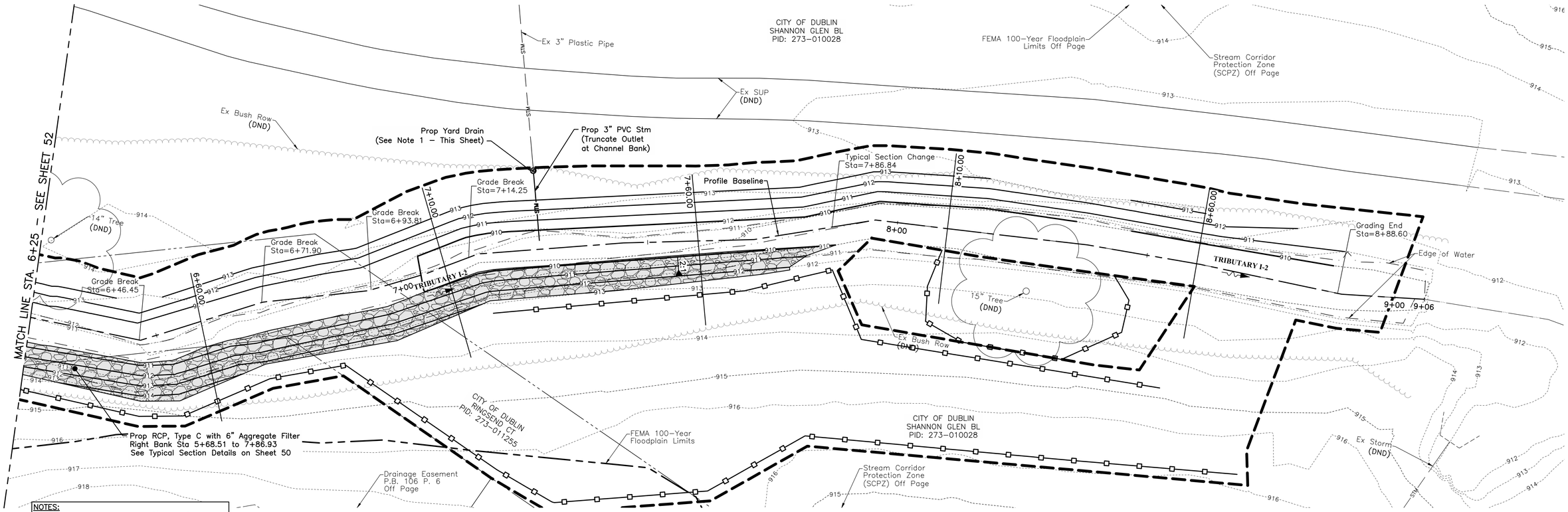
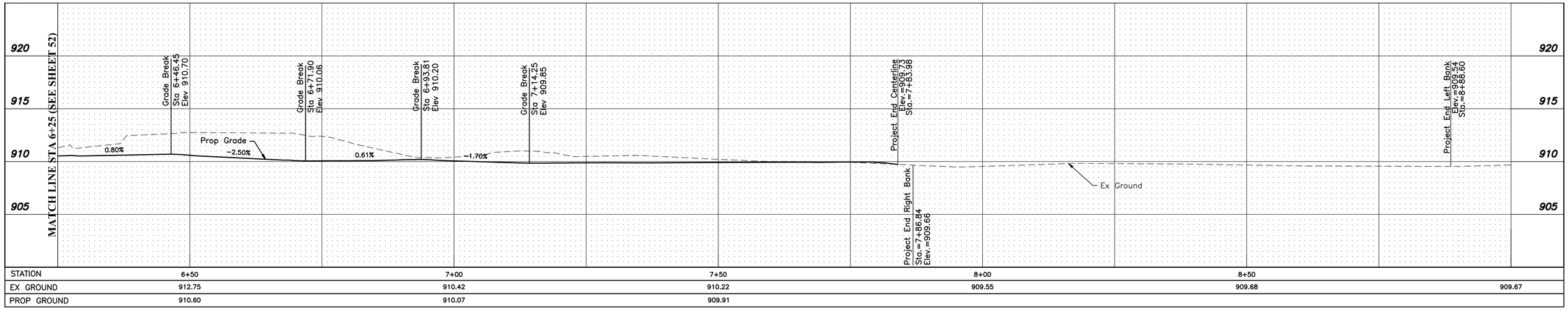


NOTES:
1. Contractor shall install a 3" Yard Drain per AA-S161 at the connection between the existing storm sewer and the proposed storm sewer.

PLAN VIEW



STATION	6+50	7+00	7+50	8+00	8+50	
EX GROUND	912.75	910.42	910.22	909.55	909.68	909.67
PROP GROUND	910.60	910.07	909.91			

PROFILE VIEW

HORIZ 1 inch = 10 Feet — 0 5 10 20
VERT 1 inch = 5 Feet — 0 2.5 5 10

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A PLAN & PROFILE

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
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emht.com

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
53/97

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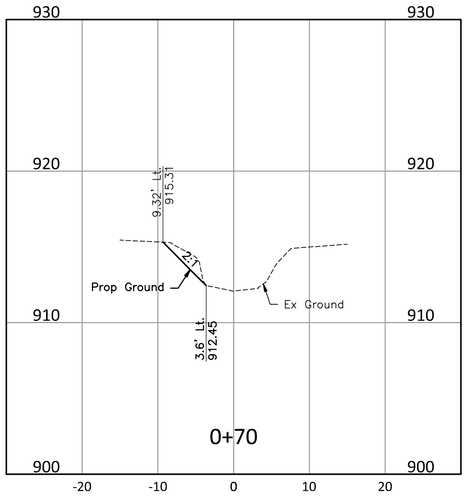
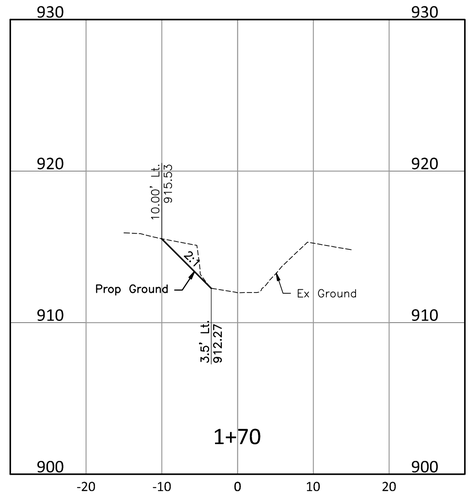
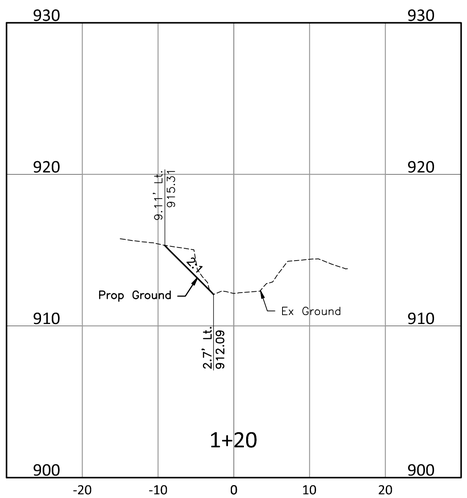
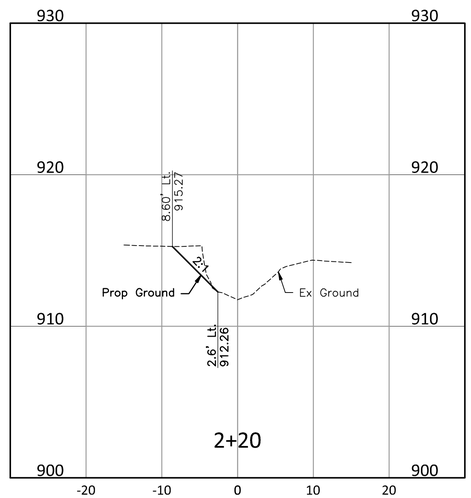




HORIZ 1 inch = 10 Feet
0 5 10 20

VERT 1 inch = 5 Feet
0 2.5 5 10





REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
SITE 44A CROSS SECTIONS

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
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Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
54/97

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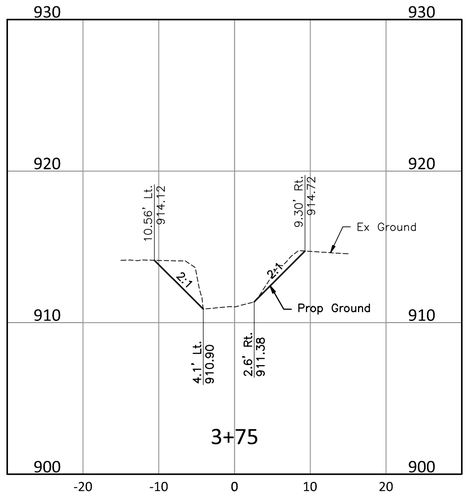
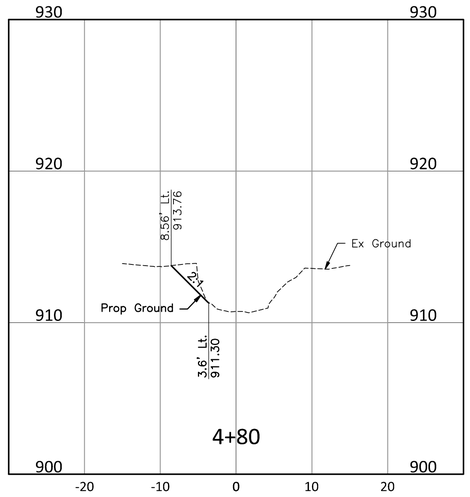
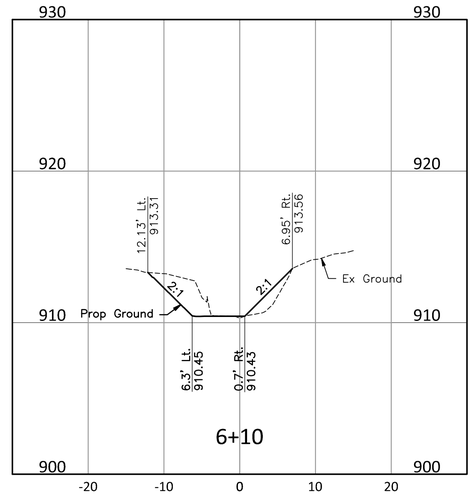
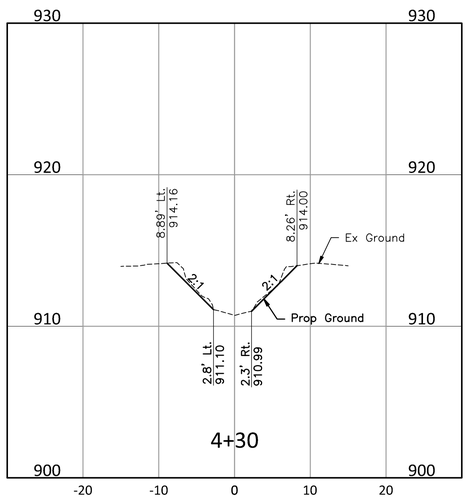
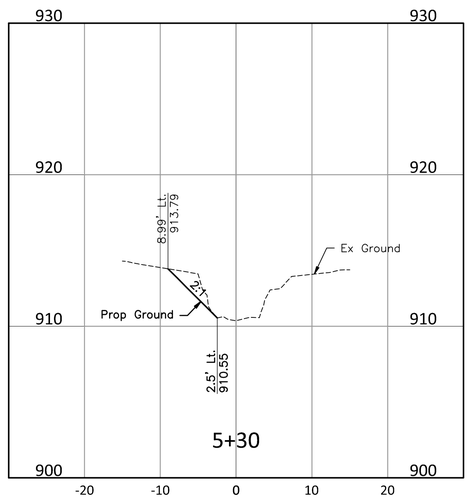










REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A CROSS SECTIONS

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

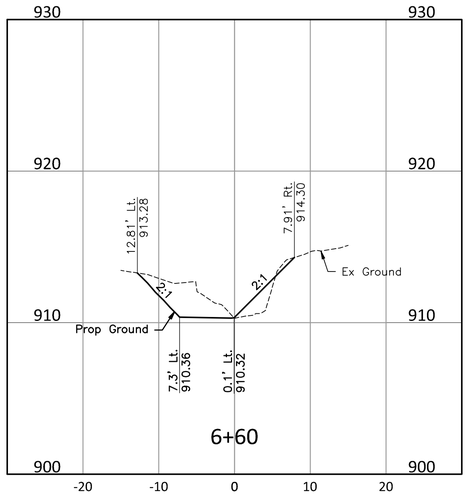
DATE
JUNE 2025

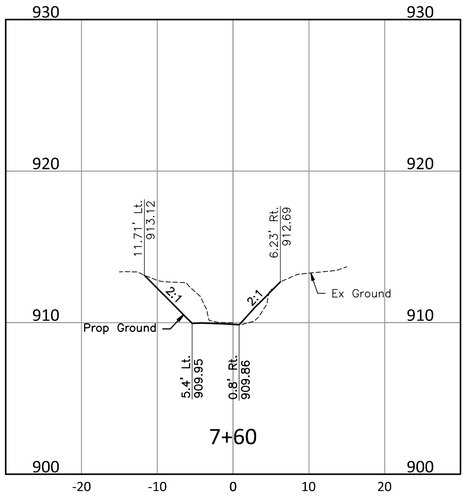
SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

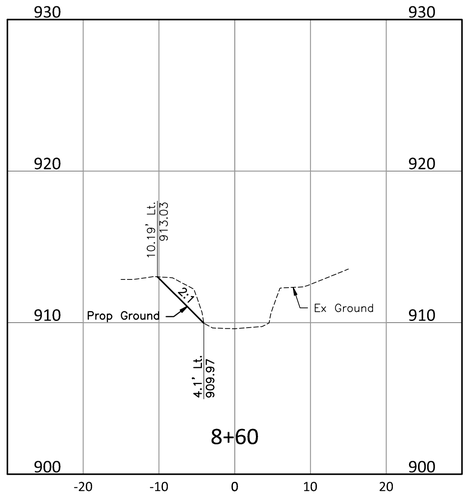
JOB NO.
2022-0903

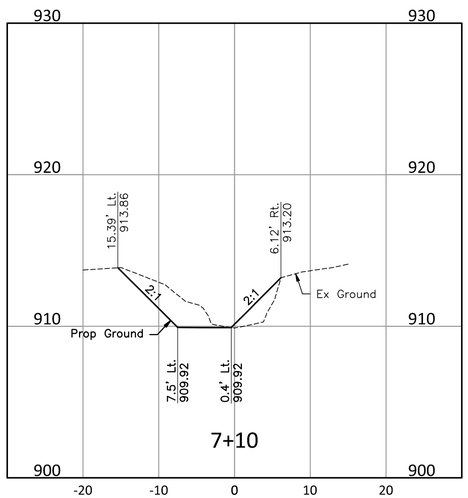
SHEET
55/97

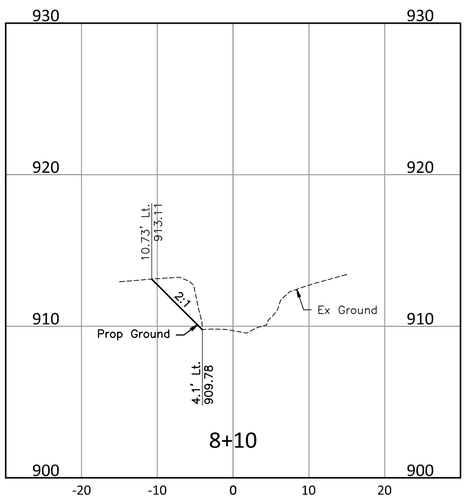
N:\2022\0903\Dwg\04Sheets\Plan\Year 2\48 Site 44e Plan & Profile.dwg, Last Saved By: mcrea, 3/21/2025 11:20 AM, Last Printed By: Bascarella, Joslyn, 8/18/2025 4:31 PM, (No Xref's)











REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A CROSS SECTIONS

EMHT
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Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

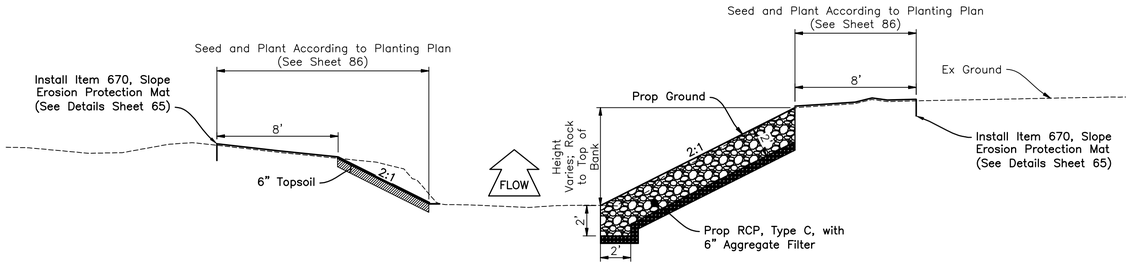
DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

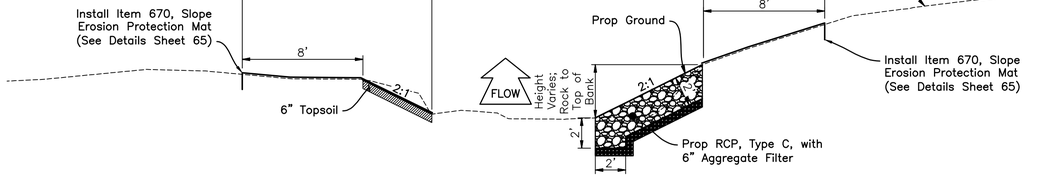
SHEET
56/97

M:\2022\0903\Dwg\04Sheets\Plan\Year 2\48 Site 44A Plan & Profile.dwg, Last Saved By: mcrea, 3/21/2025 11:20 AM, Last Printed By: Bascarella, Joslyn, 8/16/2025 4:32 PM, (No Xrefs)



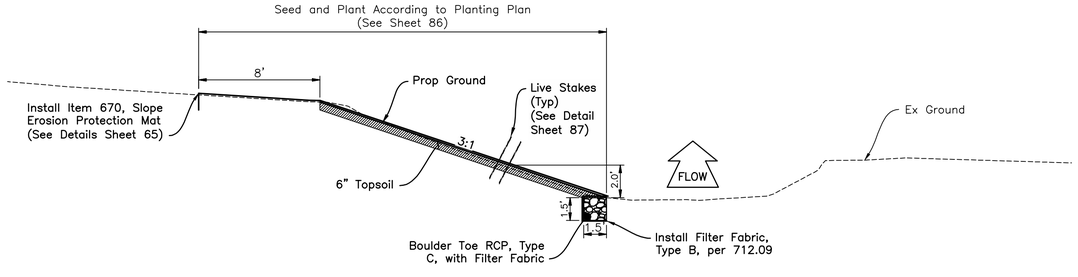
DETAIL

SITE 44B TYPICAL CHANNEL SECTION (STA 0+39.45 TO 0+86.09) H&V: 1" = 5'



DETAIL

SITE 44B TYPICAL CHANNEL SECTION (STA 0+86.09 TO 2+41.87) H&V: 1" = 5'



DETAIL

SITE 44C TYPICAL CHANNEL SECTION (STA 0+23.76 TO 0+61.49) H&V: 1" = 5'

NOTES:

BOULDER TOE:

1.0 Material:
The boulder toe material may consist of quarried limestone. Recycled concrete is not permitted. The Contractor shall review samples of this material with the Engineer for approval prior to installation. The size of this material shall be consistent with the gradation of Type "C" Rock Channel Protection, per CMS Item 703.19.

2.0 Installation:
The boulder toe material shall be embedded into the channel along the toe of the stream outer bends, as depicted in the Site 44C Typical Channel Section Detail (this sheet). Filter fabric material per ODOT Item 712.09, Type "B", shall be included in the construction of the boulder toe reinforcement, as demonstrated in the Site 44C Typical Channel Section Detail, this sheet.

GEOTEXTILES:

The specified geotextile shall meet the specifications identified on this plan, unless otherwise approved by the Engineer.

The geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure prior to placement. Each roll shall be labeled or tagged to provide product identification sufficient for field inventory and quality control purposes. Rolls shall be stored in a manner which provides identification, as well as protection from the elements. If stored outdoors, the rolls shall be elevated and protected with a waterproof cover.

INSTALLATION:

- Item 670, Slope Erosion Protection Mat, As Per Plan shall be installed as depicted in the Site 44B and 44C Typical Channel Section Details on this sheet and Installation Detail (Sheet 65).
- Stake matting to soil at density of 3.75 staples per square yard.

SEEDING:

See seeding notes on Sheets 04 and seeding zones and native grass seeding tables on Sheet 86.

PLANTING:

See planting notes on Sheets 88–89, planting details on Sheet 87, and planting plans on Sheet 86.

TOPSOIL:

See topsoil notes on Sheet 04. Depth of topsoil placed shall be as follows:

Side slopes (as shown in the Sites 44B and 44C Typical Channel Section Details on this sheet):
– 6" Min

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B&C DETAILS & NOTES

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
AS NOTED

JOB NO.
2022-0903

SHEET
57/97

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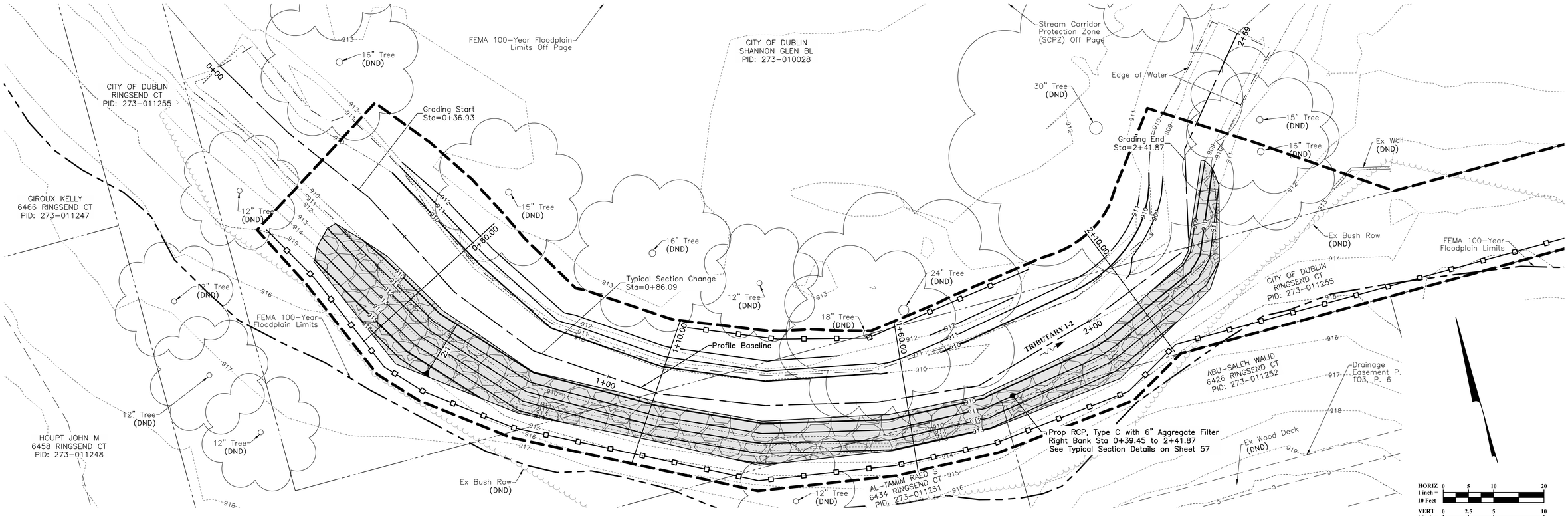
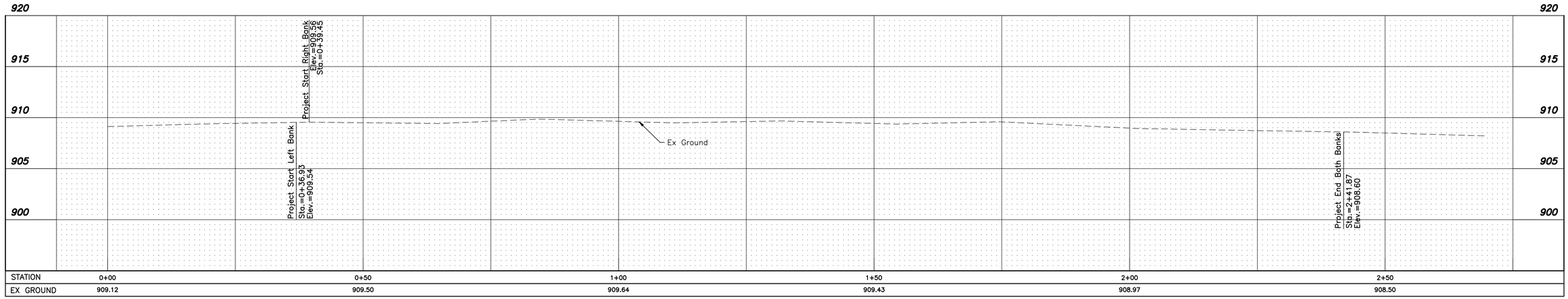


PLAN VIEW



PROFILE VIEW

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B PLAN & PROFILE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

EMH&T
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

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
58/97

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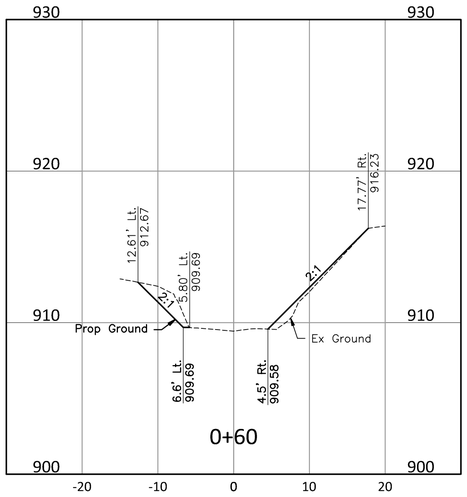

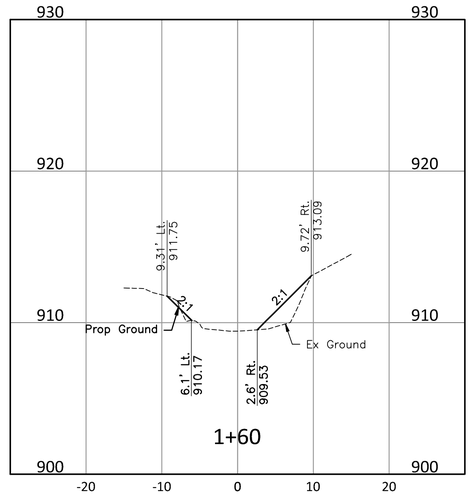

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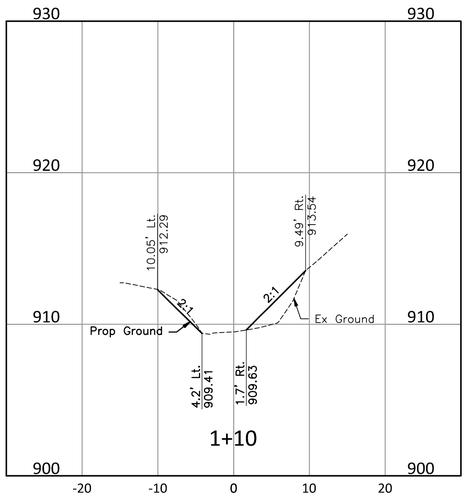
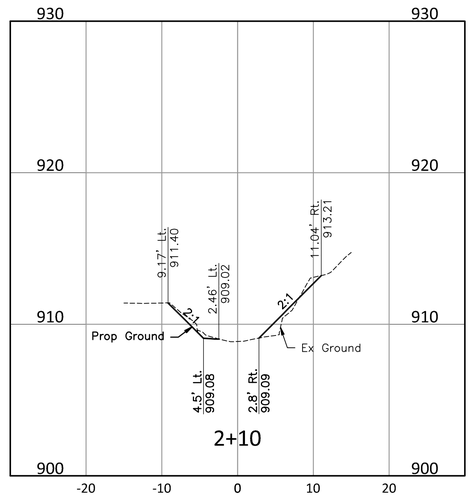
VERT 1 inch = 5 Feet: 0, 2.5, 5, 10





REVISIONS

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CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B CROSS SECTIONS

EMHT
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

DATE
JUNE 2025

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Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
59/97

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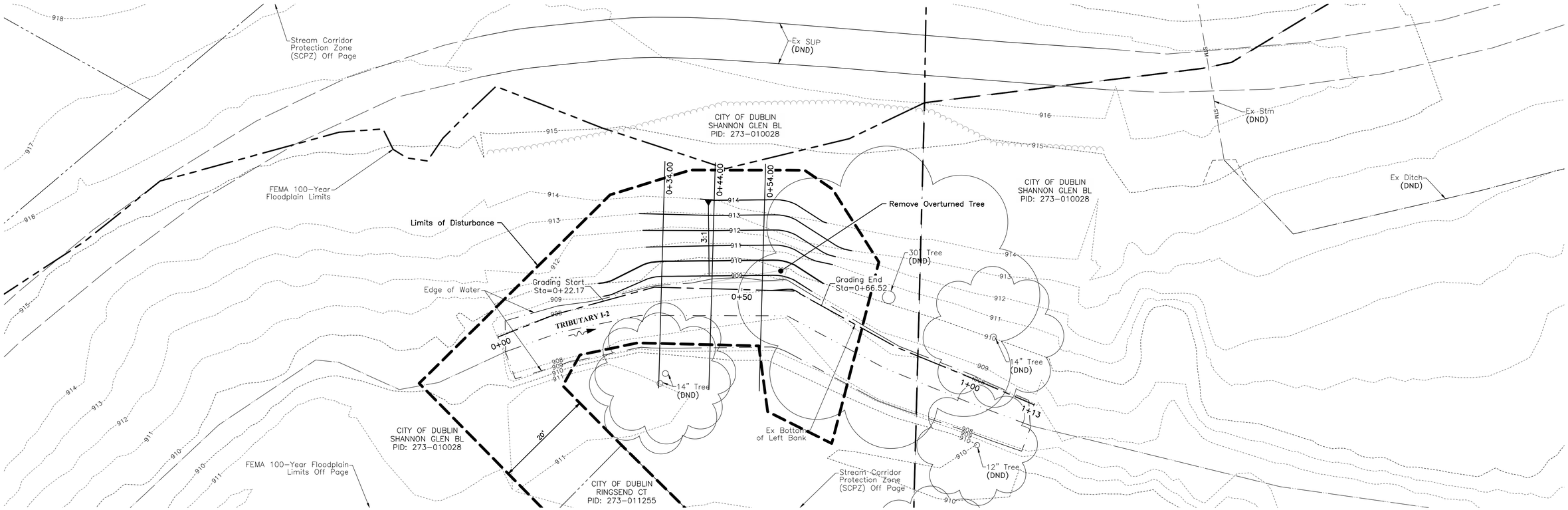
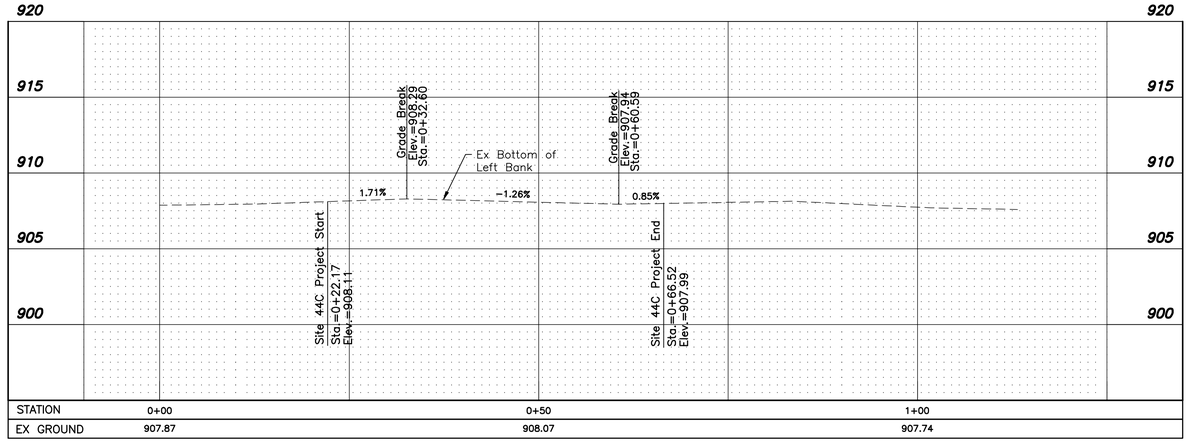


PLAN VIEW



PROFILE VIEW

HORIZ 1 inch = 10 Feet — 0 5 10 20

VERT 1 inch = 5 Feet — 0 2.5 5 10

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44C PLAN & PROFILE

EMH&T
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

DATE
JUNE 2025

SCALE
Horiz: 1" = 10'
Vert: 1" = 5'

JOB NO.
2022-0903

SHEET
60/97

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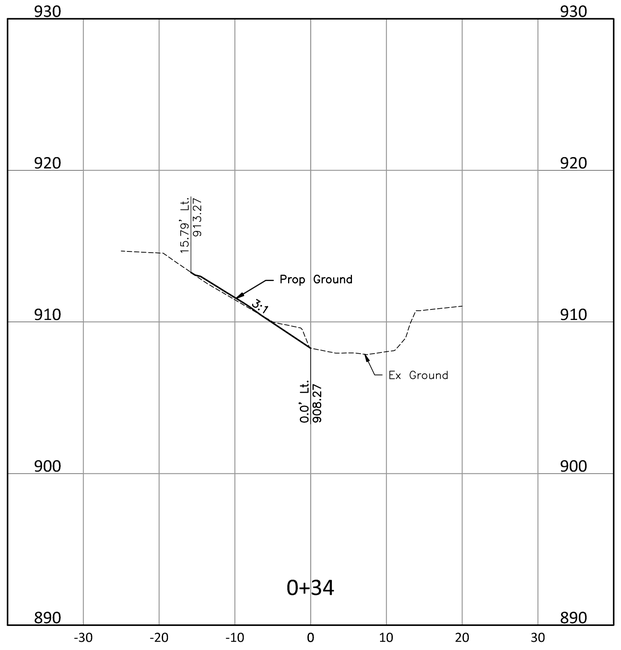

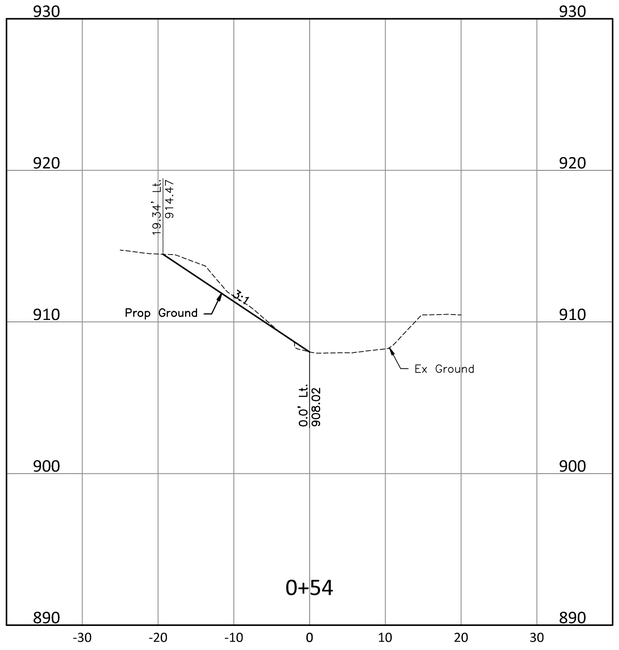

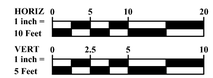

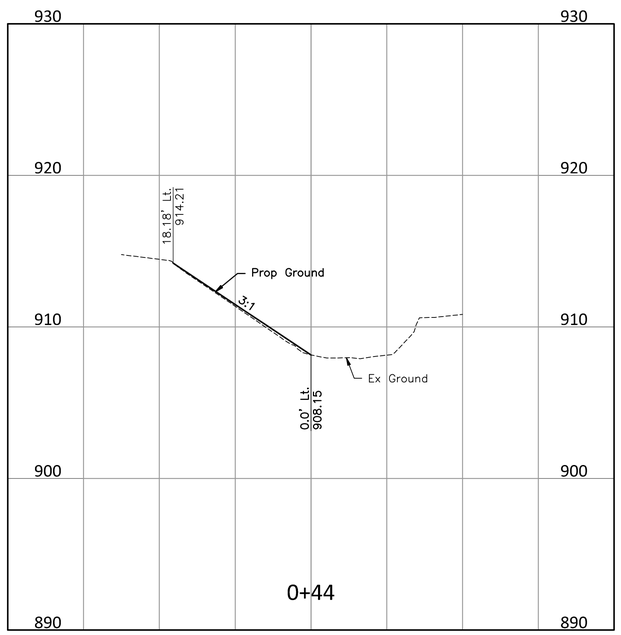

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44C CROSS SECTIONS

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
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JOB NO.
2022-0903

SHEET
61/97

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SITE NARRATIVE

PLAN DESIGNER:
Sites 3, 18, 25, 44:
EMH&T Inc.
Alex Jensen, PE
5500 New Albany Road
Columbus, Ohio 43054
Tel: (614) 775-4500
Fax: (614) 775-4800
Email: ajensen@emht.com

Sites 22, 24, 27, 28:
Stantec
Jon Ricketts, PE
1500 Lake Shore Drive Suite 100
Columbus, Ohio 43204
Tel: (614) 233-6718
Email: Jonathan.Ricketts@stantec.com

OWNER:
City of Dublin
6555 Shier Rings Road
Dublin, Ohio 43016
Tel: (614) 410-4740

PROJECT DESCRIPTION:
The project includes the bank stabilization of nine stream sites throughout the City of Dublin using streambank grading, riprap installation, and riparian buffer planting to enhance channel stability.

EXISTING SITE CONDITIONS:
Pre-development conditions of the sites include eroded banks and protruded storm outfalls throughout the existing stream reaches.

RECEIVING STREAM:
Tamarisk Creek (Site 3), South Fork Indian Run (Sites 18 and 22), Bait Shop Creek (Site 24), Tonti Creek (Sites 25, 27, and 28), and Tributary I-2 of North Fork Indian Run (Site 44).

ADJACENT AREAS:
The project consists of sites that run through wooded corridors, recreational parks, and alongside roadways throughout the City of Dublin.

DISTURBED AREA:
The total disturbed area is 4.20 ± acres.

EROSION AND SEDIMENT MEASURES:
Erosion and sediment control for the project will be managed in one phase at each project site.

CONSTRUCTION SEQUENCE:

CONSTRUCTION SEQUENCING

Site 3
1. Establish a temporary stabilized construction entrance, staging area, compost filter sock perimeter, and temporary construction fence perimeter.
2. Delineate limits of disturbance and tree areas to protect.
3. Clearing and grubbing.
4. Install rock check dams upstream and downstream of work area.
5. Install clean water pump around from upstream of the work area into existing undisturbed channel downstream of the work area.
6. Install muddy water pump around and filter bag.
7. Construct the proposed channel stabilization improvements.
8. Install erosion control matting, topsoil, seedings, and plantings.
9. Remove temporary pump arounds, rock check dams, and filter bag after site is stabilized to the satisfaction of the City Engineer.
10. Remove temporary construction entrance, staging area, compost filter sock, and construction fencing.
11. Perform site restoration on all disturbed areas not previously stabilized.

Sites 18:
1. Establish a temporary stabilized construction entrance, staging area, compost filter sock perimeter, and temporary construction fence perimeter.
2. Delineate limits of disturbance and tree areas to protect.
3. Clearing and grubbing.
4. Install rock check dam upstream and downstream of work area.
5. Install clean water pump around from upstream of the work area into the existing undisturbed channel downstream of the work area.
6. Install muddy water pump around and filter bag.
7. Construct the proposed channel stabilization improvements.
8. Install erosion control matting, topsoil, seedings, and plantings.
9. Remove temporary pump arounds, rock check dam, and filter bag after site is stabilized to the satisfaction of the City Engineer.
10. Remove temporary construction entrance, staging area, compost filter sock, and construction fencing.
11. Perform site restoration on all disturbed areas not previously stabilized.

Site 22:
1. Establish a temporary stabilized construction entrance, staging area, timber mats, temporary construction fencing, and composite filter sock.
2. Delineate limits of disturbance, tree areas to protect, and utility protection.
3. Clearing and grubbing.
4. Construction layout of bank stabilization activities.
5. Construct the proposed channel bank stabilization.
6. Install topsoil, seed, mulch, slope erosion protection mat, and plantings at bank stabilization location.
7. Prepare area for seeding on the floodplain.
8. Install seed, mulch, and plantings on floodplain.
9. Remove temporary construction entrance, staging area, composite filter sock, timber mats, and construction fencing.
10. Perform final site restoration on all disturbed areas not previously stabilized.

Site 24:
1. Establish a temporary stabilized construction entrance, staging area, temporary construction fencing, and composite filter sock.
2. Delineate limits of disturbance, tree areas to protect, and utility protection.
3. Clearing and grubbing.
4. Trim culvert.
5. Construct the proposed rock toe and rock channel protection.
6. Install topsoil, seed, mulch, slope erosion protection mat, and plantings on graded bank.
7. Remove temporary construction entrance, staging area, composite filter sock, and construction fencing.
8. Repair access paths.
9. Perform final site restoration on all disturbed areas not previously stabilized.

CONSTRUCTION SEQUENCE (CONT.)

Site 25:
1. Relocate existing mailbox to a location determined by the City Engineer.
2. Establish a temporary stabilized construction entrance using timber matting and install inlet protection on the existing storm sewer inlet.
3. Delineate limits of disturbance and tree areas to protect.
4. Clearing and grubbing
5. Install rock check dam in front of the existing basin outlet structure to filter runoff prior to discharging from the basin.
6. Install the proposed storm sewer, inlets, and rock channel protection.
7. Protect installed storm sewer inlets from sediment. Place temporary fill above final grade as needed to facilitate access to Sites 27 and 28. Install additional timber matting, staging area, compost filter sock perimeter, and temporary construction fence perimeter.
8. Upon the completion of Sites 27 and 28, remove the staging area, rock check dam, filter socks and perimeter fencing.
9. Remove temporary fill to final grade and remove inlet protection. Install erosion control matting, seeding, and compost filter sock ditch checks.
10. Remove the remaining construction fencing, timber matting, and inlet protection.
11. Perform site restoration on all disturbed areas not previously stabilized.

Site 27:
1. Utilize the Site 25 staging area, access path, compost filter sock, construction fencing, and any other temporary sediment and erosion control measure established for Site 25.
2. Delineate limits of disturbance, tree areas to protect, and utility protection.
3. Clearing and grubbing.
4. Install clean water pump around from upstream of the work area into existing undisturbed channel downstream.
5. Install rock check dams upstream and downstream of work area.
6. Install muddy water pump around, filter bag, and filter socks.
7. Construct the proposed rock toe, emergency spillway, embankment, and outfall protection.
8. Install topsoil, seed, mulch, turf reinforcement mat, slope erosion protection mat, and plantings leaving an access route to access Site 28.
9. Construct Site 28.
10. Remove all temporary sediment and erosion control measures from Sites 25, 27, and 28.
11. Perform final site restoration on all disturbed areas not previously stabilized.

Site 28:
1. Utilize the Site 25 and 27 staging area, access path, compost filter sock, construction fencing, and all other temporary sediment and erosion control measure established for Sites 25 and 27.
2. Delineate limits of disturbance and tree areas to protect.
3. Install the following temporary sediment and erosion control measures such as the minor stream crossings, timber mats, construction fencing, composite filter sock, and staging area.
4. Clearing and grubbing.
5. Install clean water pump around from upstream of the basin outfall work along Tributary 1A and direct the flow downstream of the confluence with Tributary 1.
6. Install rock check dam upstream of the basin outfall work.
7. Install muddy water pump around, filter bag, and filter socks.
8. Construct the proposed outfall protection, rock ramp, and headwater channel.
9. Install seed, mulch, slope erosion protection mat, and plantings on disturbed areas.
10. Remove the clean water pump around, rock check dam, and muddy water pump around.
11. Construct the remaining bank stabilization measures and anchor logs along Tributary 1.
12. Install seed, mulch, slope erosion protection mat, and plantings on disturbed areas.
13. Remove all temporary sediment and erosion control measures.
14. Perform final site restoration on all disturbed areas not previously stabilized.

Site 44A, 44B & 44C:
1. Establish a temporary stabilized construction entrance, staging area, compost filter sock perimeter, and temporary construction fence perimeter.
2. Delineate limits of disturbance and tree areas to protect.
3. Clearing and grubbing.
4. Install rock check dams upstream and downstream of work area.
5. Install clean water pump around from upstream of the work area into existing undisturbed channel downstream of the work area.
6. Install muddy water pump around and filter bag.
7. Construct the proposed channel stabilization improvements.
8. Install erosion control matting, topsoil, seedings, and plantings.
9. Remove temporary pump arounds, rock check dams, and filter bag after site is stabilized to the satisfaction of the City Engineer.
10. Remove temporary construction entrance, staging area, compost filter sock, and construction fencing.
11. Perform site restoration on all disturbed areas not previously stabilized.

Note:
The construction sequence provided above is for NPDES permit coverage compliance only. The Contractor will be responsible for determining their own project schedule and shall not soley rely on the stated sequence of construction for bidding.

SCHEDULE:
The Contractor shall provide a schedule of operations to the Owner. Sedimentation and erosion control features shall be placed in accordance with this schedule.

OHIO EPA NPDES FACILITY PERMIT NUMBER:
4GC10508*AG

SITE CONTACT:
Michael Hendershot, PE
City of Dublin
(614) 410-4657
MHendershot@dublin.oh.us

SEDIMENT AND EROSION CONTROL NOTES

INSPECTIONS:
The NPDES permit holder along with the Contractor shall provide qualified personnel to conduct site inspections ensuring proper functionality of the erosion and sedimentation controls. All erosion and sedimentation controls are to be inspected once per every seven calendar days and within 24 hours of a 0.5" storm event or greater that occurs over a 24 hour period. Records of the site inspections shall be kept and made available to jurisdictional agencies if requested.

MAINTENANCE:
It is the Contractor's responsibility to maintain the sedimentation and erosion control features on this project. Any sediment or debris which has reduced the efficiency of a control shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to the City of Dublin.

CONTRACTORS RESPONSIBILITIES:
Details have been provided on the plans in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the Ohio EPA Manual "Rainwater and Land Development". The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Stormwater Discharges Associated with Construction Activity.

The City shall file a Notice of Intent as per NPDES requirements including any offsite dumping or borrow areas. The Contractor is to submit a co-permittee Notice of Intent to obtain coverage under the NPDES permit coverage issued to the City. It is the Contractor's responsibility to notify his subcontractors of the OEPA requirements. Furnish copies of the documents to the City of Dublin.

The Construction Sequence shown on this plan is provided to satisfy Ohio EPA SWPPP requirements and for the Contractor's convenience only. The Contractor is required to develop and submit his own construction sequence (schedule of operations) to the Owner. The schedule should include a sequence of the placement of the sedimentation and erosion control measures that provides for continual protection of the site throughout the earth moving activities.

Prior to construction operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to locations and dimensions may be made by the Engineer, City of Dublin, and the Ohio EPA.

It may become necessary to remove portions of sedimentation controls during construction to facilitate the grading operations in certain areas. However, the controls shall be replaced upon grading or during any inclement weather.

The Contractor shall be responsible to have the current Storm Water Pollution Prevention Plan immediately available or posted on site.

The contractor is responsible for ensuring that offsite soil borrow and export areas have Ohio EPA NPDES permit coverage and that appropriate erosion and sediment controls are properly installed and maintained.

Street cleaning (on an as-needed basis) is required through the duration of this construction project. This includes sweeping, power cleaning and (if necessary) manual removal of dirt or mud in the street gutters.

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into storm water runoff. Untreated sediment-laden runoff shall not flow off of site without being directed through a control practice.

Direct discharge of sediment laden water to the City's sewer system or a receiving stream is a violation of Ohio EPA and City of Dublin regulations; the Contractor will be held liable for the violation and subsequent fines.

This plan must be posted on-site. A copy of the SWPPP plan and the approved Ohio EPA Stormwater Permit (with the site-specific NOI number) shall be kept on-site at all times.

All Erosion & Sediment Control practices are subject to Field Modification at the direction of the City of Dublin and/or Ohio EPA.

TABLE 1: PERMANENT STABILIZATION

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

TABLE 2: TEMPORARY STABILIZATION

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

REVISIONS

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CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
EROSION & SEDIMENT CONTROL NOTES & DETAILS

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
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SCALE
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JOB NO.
2022-0903

SHEET
62/97

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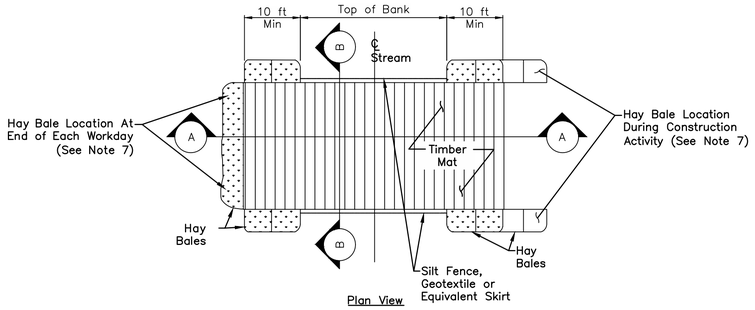
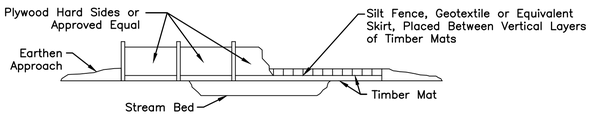
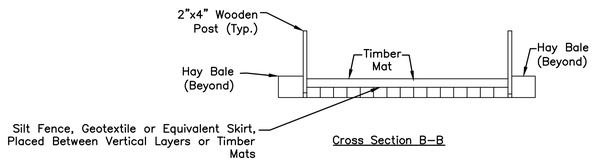


Plan View



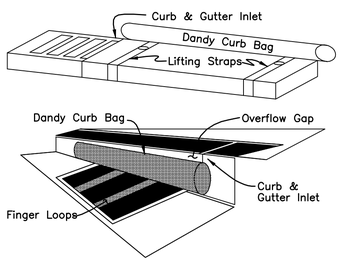
Cross Section A–A



Cross Section B–B

1. This type of bridge is generally used for small stream crossings less than 25 feet in width and a proper stream bank configuration.
2. Extend timber mat 50 feet, but not less than 10 feet, from top of bank, on both sides of stream crossing in order to minimize disturbance of stream banks and riparian areas.
3. Bridge will be temporarily removed if high water renders it unsafe for crossing.
4. Bridge to remain in place until completion of final restoration.
5. A skirt formed of silt fence, geotextile fabric, or equivalent shall be placed on the sides and bottom of the bridge to trap sediment as necessary.
6. Individual mats shall be anchored and butted tightly to minimize the introduction of sediment to the waterbody.
7. Hay bales will be placed at the edge of the equipment bridge at the end of each work day to prevent erosion, but will be removed during construction activity.
8. Temporary stream crossing shall be inspected on a daily basis.
9. Damaged crossing shall be repaired within 24 hours of the inspection, and before any subsequent use.
10. Sediment deposits on the crossing or its approaches shall be removed within 24 hours of inspection.
11. Anchor timber mat to a tree, or temporary concrete blocks with sufficient strength, using steel chain or cable.
12. Contractor may submit a substitute equal stream crossing detail for review by the City Engineer.

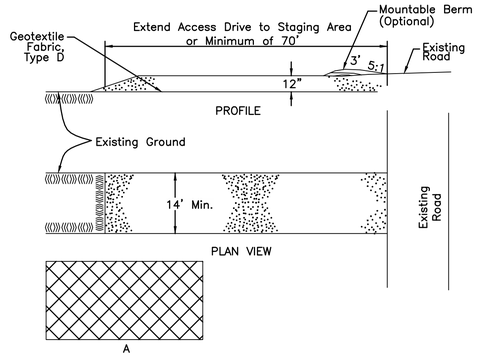
DETAIL
TEMPORARY MINOR STREAM CROSSNG — **Not to Scale**



Installation: Stand grate on end. Slide the Dandy Curb Bag on with Dam on top of the grate. Pull all excess down. Lay unit on its side. Carefully tuck flap in. Press Velcro strips together. Install the unit making sure front edge of grate is inserted in frame first then lower back into place. Press Velcro dots together which are located under lifting straps. This insures straps remain flush with gutter.

Maintenance: With a stiff bristle broom sweep silt and other debris off surface after each event.

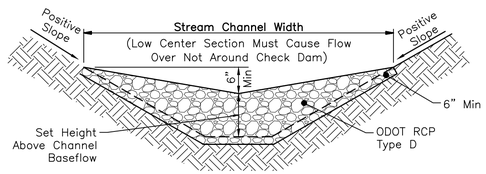
DETAIL
DANDY CURB BAG — **Not to Scale**



A: Contractor Laydown Area (dumpster, vehicle fueling) location to be determined in the field by Contractor.

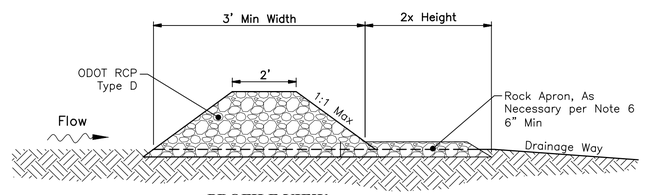
1. Stone Size – use 2" stone, or reclaimed or recycled concrete equivalent. Item 304 or other finely graded material shall not be added to the stone.
   1.1. Where noted on plans, only timber mat or approved equal may be used for site entrance material.
2. Length – Extend access drive to staging area or a minimum of 70', whichever occurs first.
3. Thickness – Twelve (12) inches.
4. Width – 14' min.
5. Geotextile Filter, Type D – Will be placed over the entire area prior to placing of stone.
6. Surface Water – All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance – The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right–of–way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights–of–way must be removed immediately.
8. Washing – Wheels shall be cleaned to remove sediment prior to entrance onto public right–of–ways. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain. Contractor shall utilize a vacuum sweeper equipped with a brush when directed by the City Engineer shall sediment tracking onto public streets become an issue.

DETAIL
STABILIZED CONSTRUCTION ENTRANCE — **Not to Scale**



CROSS SECTION VIEW

1. The check dam shall be constructed of 4–8 inch diameter stone, placed so that it completely covers the width of the channel. ODOT Type D stone is acceptable, but should be underlain with a gravel filter consisting of ODOT No. 3 or 4 or suitable filter fabric.
2. Maximum height of check dam shall not exceed 3.0 feet. Minimum height shall not be less than 1.0 foot.
3. The midpoint of the rock check dam shall be a minimum of 6 inches lower than the sides in order to direct across the center and away from the channel sides.
4. The base of the check dam shall be entrenched approximately 6 inches.
5. Spacing of check dams shall be in a manner such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.
6. A Splash Apron shall be constructed where check dams are expected to be in use for an extended period of time, a stone apron shall be constructed immediately downstream of the check dam to prevent flows from undercutting the structure. The apron should be 6 in. thick and its length two times the height of the dam.
7. Stone placement shall be performed either by hand or mechanically as long as the center of check dam is lower than the sides and extends across entire channel.
8. Side slopes shall be a minimum of 2:1.

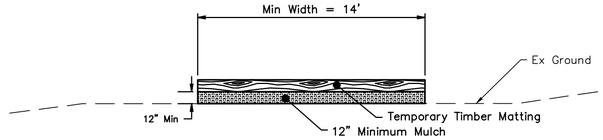


PROFILE VIEW

Maintenance:

1. Rock check dams shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
2. Close attention shall be paid to the repair of damaged check dams, end runs and undercutting beneath dams.
3. Necessary repairs to check dams shall be accomplished promptly.
4. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one–half the height of the barrier.
5. Any sediment deposits remaining in place after the aggregate is no longer required shall be dressed to conform to the existing grade, prepared and seeded.
6. The apron shall have a thickness of 6" minimum and the length shall be 2x the height of the dam.

DETAIL
ROCK CHECK DAM — **Not to Scale**



CROSS SECTION VIEW

1. Place timber mats along access route to project area to protect existing ground and/or critical root zones during construction.
2. Following construction, matting and mulch shall be removed and existing ground shall be restored to existing conditions.

DETAIL
TEMPORARY TIMBER MATTING — **NOT TO SCALE**

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
EROSION & SEDIMENT CONTROL NOTES & DETAILS

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
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DATE
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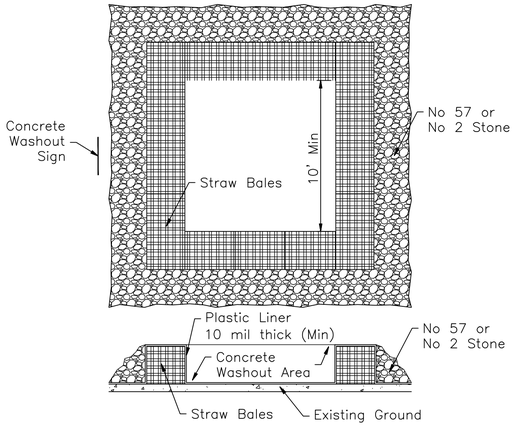
SCALE
AS NOTED

JOB NO.
2022-0903

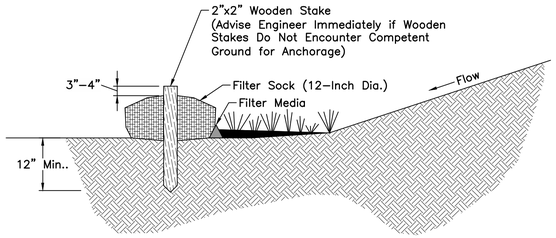
SHEET
63/97

J:\2022\0903\Dwg\MSheets\Plan\Year 2\Erosion & Sediment Control Notes & Details.dgn Last Saved By: jbosenello 6/16/2025 3:24 PM Last Plotted By: jbosenello 6/16/2025 4:43 PM (No Xrefs)



Notes:
1. Concrete trucks shall utilize areas to washout trucks. Accumulated concrete shall be removed from the site and disposed of properly.
2. As an alternative, contractor shall use a roll off box with liner.

DETAIL
CONCRETE WASHOUT DETAIL — Not to Scale

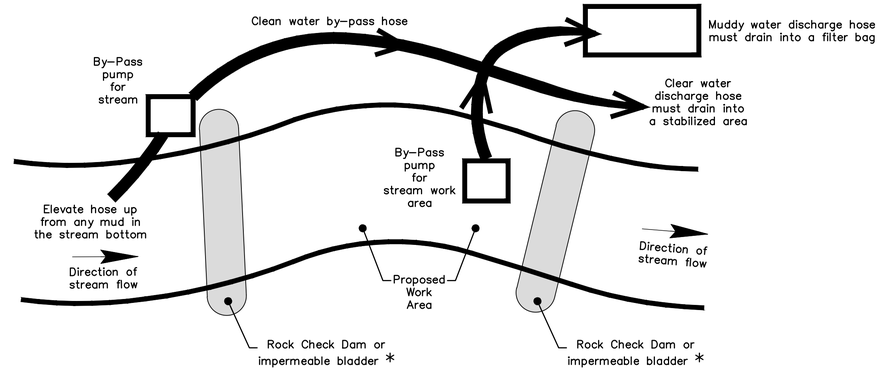


1. Materials – compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. they shall be derived from a well–decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
2. Filter socks shall be 3 or 5 mil continuous, tubular, hdpe 3/8" knitted mesh netting material, filled with compost passing the above specifications for compost products.

Installation:
1. Filter socks will be placed on a level line across slopes, generally parallel to the base of the slope or other affected area. on slopes approaching 2:1, additional socks shall be provided at the top and as needed midslope.
2. Upon installation of the filter sock, additional filter media (matching the media inside of the sock) shall be placed on the upland side of the filter sock. filter media shall extend halfway up the sock and slope at a maximum of 45 degrees to existing ground elevation.
3. Filter socks intended to be left as a permanent filter or part of the natural landscape, shall be seeded at the time of installation for establishment of permanent vegetation.
4. Filter socks are not to be used in concentrated flow situations or in runoff channels.

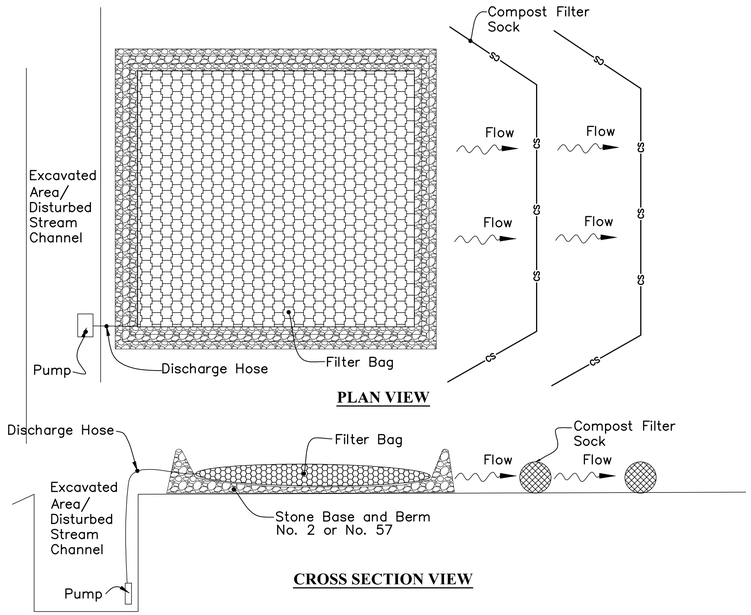
Maintenance:
1. Routinely inspect filter socks after each significant rain, maintaining filter socks in a functional condition at all times.
2. Remove sediments collected at the base of the filter socks when they reach 1/3 of the exposed height of the practice.
3. Where the filter sock deteriorates or fails, it will be repaired or replaced with a more effective alternative.
4. Removal – filter socks will be dispersed on site when no longer required in such as way as to facilitate and not obstruct seedings.

DETAIL
COMPOST FILTER SOCK DETAIL — Not to Scale



* Non–erodable material only

DETAIL
STREAM DAM AND BY-PASS PUMP DETAIL — Not to Scale



Installation:
The Contractor shall pump muddy water encountered within excavated areas that are not tributary to sediment basins 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 a aggregate pad. Additionally, a perimeter aggregate berm shall be constructed around the bag. Perimeter controls such as compost filter socks 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. Filter bag shall be sized based upon the pumping rate into the bag.

Maintenace:
The filter bag shall be replaced when the bag is half filled with sediment.

The Contractor shall contact the Owner/Engineer for consultative services if dewatering activities overwhelm the filter bag and perimeter controls.

DETAIL
DEWATERING FILTER BAG — Not to Scale

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
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MAINTENANCE PROGRAM 2025
EROSION & SEDIMENT CONTROL NOTES & DETAILS

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SCALE
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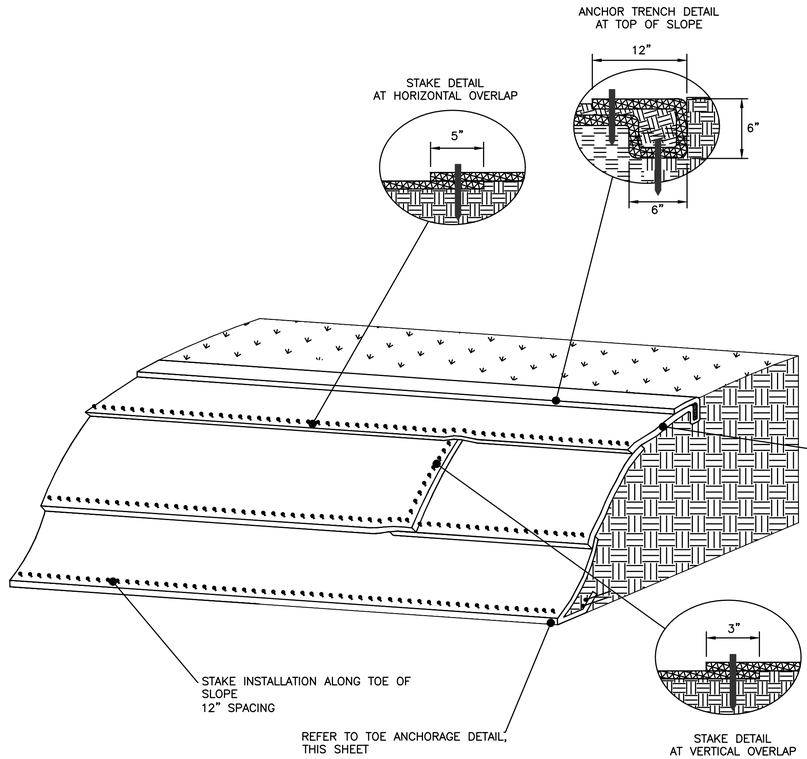
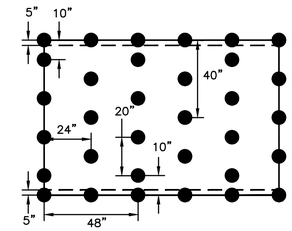
SHEET
64/97

J:\2022\0903\Dwg\04Sheets\Plans\Year 2\Erosion & Sediment Control Notes & Details.dgn Last Saved By: bascarella 6/16/2025 4:43 PM Last Plotted By: bascarella 6/16/2025 4:43 PM (No Xrefs)

Item 670, Slope Erosion Protection Mat/Turf Reinforcement Mat Installation Notes:

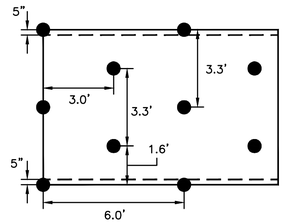
1. Install topsoil to final grade, as shown on the plans.
2. Install seed mix with fertilizer.
3. Begin at the toe of slope. Unroll mat parallel to the stream channel. Ensure mat is flat on the ground. Anchor matting in toe trench with 2x2x12 inch wood stakes or 2x2x12 wedges. 12 inch wire "U" staples may be substituted for wood stakes. Refer to Detail, This Sheet.
4. Unroll matting over topsoil and affix firmly to the slope with stakes placed in appropriate locations as shown in the stake pattern guide.
5. Stake through the matting at the toe of slope, approximately 12 inches apart across entire mat length.
6. Consecutive sections of matting spliced upstream to downstream must be end–over–end (shingle style) with an approximate 3 inch overlap. Stake through overlapped area, approximately 12 inches apart across entire mat width.
7. At the upstream and downstream terminal ends of the matting, provide an anchor trench to key matting into the soil. Provide a 12 inch wide x 24 inch deep trench with a row of stakes approximately 12 inches apart. Backfill and compact the trench after staking. Apply seed and fertilizer. Install separate minimum 24 inch wide mat over anchor trench, secure mat with stakes spaced 24 inches apart along both sides of the trench.
8. The edges of parallel sections of matting must be staked with an approximately 5 inch overlap. Overlap the mat section from higher on the slope over the mat positioned lower on the slope. Space stakes 12 inches apart along the mat overlap.
9. Anchor the matting along the top of slope in a 6 inch deep x 6 inch wide trench with approximately 12 inches of matting extended beyond the upslope portion of the trench. Anchor the matting with a row of stakes approximately 12 inches apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed and fertilizer to the compacted soil and fold the remaining 12 inch portion of matting back over the seed and compacted soil. Secure matting over compacted soil with a row of stakes spaced approximately 12 inches apart across the length of the matting.
10. Product Standard: Details and Notes for temporary matting products are based on the Rolanka BioD–OCF, North American Green C125BN, or North American Green C700BN Erosion Control Mats. Refer to the project site details for the referenced Erosion Control Mat. If not specified, Rolanka BioD–OCF or North American Green C125BN shall be used. Substitute Biodegradable products that provide equal erosion protection will be considered as outlined in the specifications for Item 670, Slope Erosion Protection Mat, As Per Plan. Details and Notes for permanent matting products are based on North American Green C350 or North American Green TMax High–Performance Turf Reinforcement Mat. Substitute permanent matting products that provide equal erosion protection will be considered as outlined in the specifications for Item 670, Turf Reinforcement Mat, As Per Plan.





3.75 STAKES PER SYD

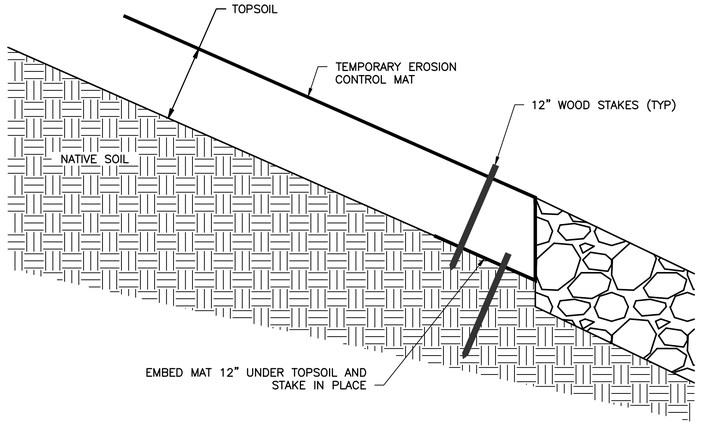
STREAMBANK STAKE PATTERN GUIDE DETAIL



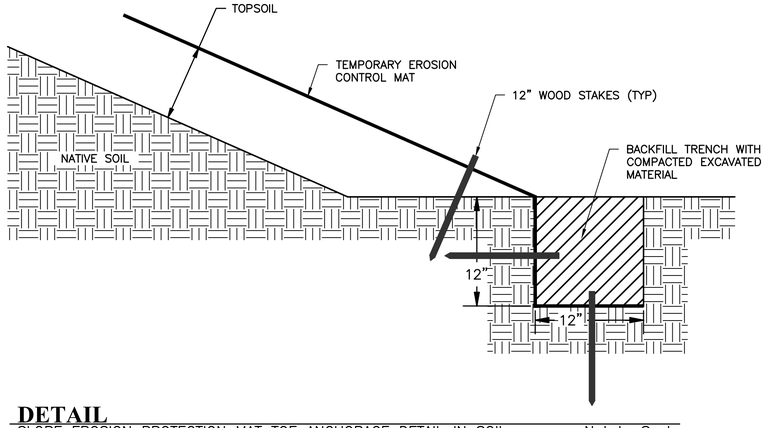
1.15 STAKES PER SYD

FLOODPLAIN STAKE PATTERN GUIDE DETAIL

DETAIL
SLOPE EROSION PROTECTION MAT INSTALLATION DETAIL Not to Scale



DETAIL
SLOPE EROSION PROTECTION MAT TOE ANCHORAGE DETAIL AT RIPRAP Not to Scale



DETAIL
SLOPE EROSION PROTECTION MAT TOE ANCHORAGE DETAIL IN SOIL Not to Scale

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
EROSION CONTROL MAT DETAILS

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
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Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
65/97

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Temp Concrete Washout (See Detail – Sheet 64)
Temp Timber Matting (See Detail – Sheet 63)
Temp Compost Filter Sock (See Detail – Sheet 64)
Limits of Disturbance
Temp Staging Area with Construction Fencing
Temp Stabilized Construction Entrance (See Detail – Sheet 63)
Dewatering Filter Bag with Stone Base, Berm, and Compost Filter Sock (See Detail – 64)
Temp Muddy Water Pump Around (See Detail Sheet – 64)
Temp Rock Check Dam (See Detail – Sheet 63)
Temp Clean Water Pump Around (See Detail – Sheet 64)
Temp Rock Check Dam (See Detail – Sheet 63)
Stream Corridor Protection Zone (SCPZ)
Ex Building (DND)
Ex Sidewalk (DND)
Ex Double Stacked 3" Stm (R&R)
Ex 4" Stm (R&R)
Ex 4" Stm (DND)
Ex Baseline
Ex Edge of Water
12" Tree (DND)
30" Tree (PROTECT)
Drainage Easement P.B. 65, P. 36
TAMARISK CREEK
RED BAY COURT
Ex R/W
Ex E/P (DND)
Ex Stm (DND)
CB (DND)
Ex WM (DND)
Ex Stm MH (DND)
WV (DND)
FH (DND)
Ex 24" Stm (DND)
Ex Headwall (DND)
Ex Wat (DND)
Ex Comm (DND)
Ex Stm (DND)
BALAKRISHNAN KATHRYN B TR
7630 RED BAY CT
PID: 273-009021
THOMPSON DARRELL
3741 TONTI DR
PID: 273-008710
TONTI DRIVE
0+00
0+50
0+58

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 EROSION & SEDIMENT CONTROL PLAN

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5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
66/97

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CITY OF DUBLIN OHIO
COSGRAY RD
PID: 274-001008

DARREE FIELDS DRIVEWAY

Ex Irrg Control Box
(DND)

Ex Elec
(DND)

Ex Elec
(DND)

Stream Corridor
Protection Zone
(SCPZ) Off Page

Ex Sign
(DND)

Ex E/P
(DND)

Ex Speed Bump
(DND)

Ex 60" Stm
(DND)

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 274-001009

DARREE FIELDS DRIVEWAY

Ex E/P
(DND)

Ex Sign
(DND)

Temp Stabilized
Construction Entrance
(See Detail – Sheet 63)

Ex RCP
(DND)

Ex 18" Stm
(DND)

Temp Clean Water
Pump Around
(See Detail – Sheet 64)

Temp Muddy Water
Pump Around
(See Detail – Sheet 64)

Edge of Water

SOUTH FORK INDIAN RUN

Temp Rock Check Dam
(See Detail – Sheet 63)

200+00

Ex RCP
(R&R)

201+00

201+29

Temp Rock Check Dam
(See Detail – Sheet 63)

12" Tree
(DND)

15" Tree
(DND)

12" Tree
(DND)

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 272-000085

Dewatering Filter Bag with
Stone Base, Berm, and
Compost Filter Sock
(See Detail – Sheet 64)

Temp Construction
Fencing

Ex Tree Row

Temp Compost Filter Sock
(See Detail – Sheet 64)

Limits of Disturbance

CITY OF DUBLIN OHIO
COSGRAY RD
PID: 272-000085

Temp Staging
Area with
Construction
Fencing

Stream Corridor
Protection Zone
(SCPZ)

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

MARK	DATE	DESCRIPTION

REVISIONS

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
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DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 18 EROSION & SEDIMENT CONTROL PLAN

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Engineers Surveyors Planners Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
67/97

YASUMASA
SHIBATA
0.23 AC.
6347 VALLEY
STREAM DR

DIANE KOPP
0.24 AC.
6339 VALLEY
STREAM DR

GRAPHIC SCALE
0 10 20 40
1 inch =20 feet

CITY OF DUBLIN
0.067 AC. (DEED)
O.R. 22233D03

AVERY-MUIRFIELD DRIVE

SITE 22 BASELINE

RESERVE "A"
INDIAN RUN
MEADOWS
SECTION NO. 1
P.B. 61, P. 53

16" TREE
(DND)

12" TREE
(DND)

EX. BIKE PATH

TEMP COMPOST FILTER SOCK
SEE DETAIL SHEET 64 (TYP.)

TEMPORARY EASEMENT (0.06 AC)

SOUTH FORK INDIAN RUN

LIMITS OF
DISTURBANCE

TEMP STAGING AREA WITH
CONSTRUCTION FENCING
1,366.53 SF

EX. HEADWALL
(DND)

CITY OF
DUBLIN, OHIO
1.689 AC.
(DEED)
I.N.
201404040041478

TEMP TIMBER MATTING
SEE NOTE 2 SHEET 20 AND
DETAIL SHEET 63 (TYP.)

TEMP CONSTRUCTION FENCING

14" TREE
(DND)

13" TREE
(DND)

RICHARD A.
COLEMAN, II
1.062 AC.
6810 AVERY
MUIRFIELD RD

TEMP STABILIZED
CONSTRUCTION ENTRANCE
SEE DETAIL SHEET 63

EX. STORMWATER
MANHOLE (DND)

FEMA FLOODWAY

PROPERTY LINE
(TYP.)

FEMA FLOODWAY
20' BUFFER

FEMA 500-YR
FLOODPLAIN

FEMA 100-YR
FLOODPLAIN

DAVID J. KAISER
LAURA A. KAISER
0.919 AC.
6800 AVERY RD

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 22 EROSION AND SEDIMENT CONTROL PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
68/97

NOTES:
1. CONTRACTOR SHALL PERFORM THE WORK FOR SITE 24 DURING NO-FLOW CONDITIONS. CONTRACTOR IS NOT REQUIRED TO BYPASS FLOW IF WORK IS PERFORMED DURING NO-FLOW CONDITIONS.

GRAPHIC SCALE
0 5 10 20
1 inch =10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 24 EROSION AND SEDIMENT CONTROL PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
69/97

NOTES:
1. Contractor shall relocate concrete washout as needed to facilitate site access.
2. Final grade shown on these plans may not be representative of the temporary access grading needed to access the site. Contractor shall extend the timber matting for the proposed access route a minimum of 70 feet.
3. Contractor shall protect the existing sanitary manhole located within the access corridor and take necessary precautions to prevent damage.
4. The cost of all labor, equipment, and materials required for any temporary improvements to the site to facilitate access shall be paid for under Item Spec., Installation and Removal of Temporary Access, As Per Plan.

AKINS ARIEL
7788 BOYLSTON CT
PID: 273-010828

LUCAS STUART D
LUCAS ROBIN S
7780 BOYLSTON CT
PID: 273-010827

HOSSAIN MOHAMMED M
7793 LANHAM CT
PID: 273-011169

WALROD BRYANT J
7785 LANHAM CT
PID: 273-011168

OZGUNER UMIT
7777 LANHAM CT
PID: 273-0111167

KOESTERS STEPHEN C TR
7778 LANHAM CT
PID: 273-011166

CITY OF DUBLIN OHIO
WYANDOTTE WOODS BL
PID: 273-010853

Stream Corridor Protection Zone (SCPZ)

Construction Fence

Edge of Water

Ex Ditch (DND)

Ex Ditch (TBR)

Ex Basin Outlet Structure

Temp Rock Check Dam (See Detail – Sheet 63)

Temp Staging Area with Construction Fencing

Ex Stormwater Management Basin

Ex 100-Year Basin Elev (Elev = 886.72)

Detention Easement (Approx.)
P.B. 98, P. 91
I.N. 200201070005031

Temp Compost Filter Sock (See Detail – Sheet 64)

Ex Roof Drain (DND)

Ex 4" Stm (DND)

Ex 3" Stm (DND)

Ex 15" Stm (DND)

Ex Building (DND)

Ex Driveway (DND)

Ex Yard Light (DND)

Ex Walk (R&R)

8' Drainage, Pedestrian Access Easement P.B. 15, P. 5 I.N. 200201070005031

CAUTION: HOUSE IN CLOSE PROXIMITY TO SITE – OPERATE IN AREA WITH CARE

Temp Concrete Washout With Compost Filter Sock (See Note 1 – This Sheet) (See Detail – Sheet 64)

Ex San MH (DND) (See Note 3 – This Sheet)

Ex Comm (DND)

Ex 12" San (DND)

Ex Gas (DND)

Ex Wat (DND)

Ex Sidewalk (R&R)

Ex Curb (R&R)

CI (R&R)

Temp Inlet Protection (See Detail – Sheet 63)

Ex Mailbox (REMOVE & RESET)

Ex E/P (DND)

Ex 15" Stm (DND)

Temp Timber Matting (See Note 2 – This Sheet) (See Detail – Sheet 63)

Ex R/W

Ex Wat (DND)

FH (DND)

WV (DND)

LANHAM COURT

1+00

2+00

2+38

0+00

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 25 EROSION & SEDIMENT CONTROL PLAN

EMH&T
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

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
70/97

Plotted By: Basarello, Jason, 6/16/2025 4:44 PM (No Xrefs)
Last Saved By: mreza 3/4/2025 12:21 PM Last Plotted By: Basarello, Jason
J:\2022\0903\Dwg\04Sheets\Plan\Year 2\Site 25 Erosion & Sediment Control Plan.dwg

PROPERTY LINE
(TYP.)

DETENTION EASEMENT
(APPROX.)
P.B. 98, P. 91
I.N. 200201070005031

MARK G. STOLZE
0.59 AC.
7772 BOYLSTON
CT

CONSTRUCTION
ENTRANCE ON
SITE 25

TEMPORARY EASEMENT (0.09 AC)

PLACE COMPACTED EMBANKMENT
PER ODOT CMS ITEM 203,
EMBANKMENT, AS PER PLAN

SITE 27 OUTFALL
BASELINE

SPILLWAY (TYP.)

RESERVE "C"

WYANDOTTE
WOODS
SECTION 2
PHASE 1
P.B. 98, P. 91

SITE 27 EMERGENCY
SPILLWAY WITH ROCK
TOE BASELINE

TEMP MUDDY WATER PUMP AROUND
SEE DETAIL SHEET 64 (TYP.)

ROCK TOE (TYP.)

TEMP MINOR STREAM CROSSING
SEE DETAIL SHEET 63 (TYP.)
START STA 2+05
END STA 3+05

LIMITS OF
DISTURBANCE

TEMP COMPOST FILTER SOCK
SEE DETAIL SHEET 64 (TYP.)

DEWATERING FILTER BAG
WITH STONE BASE AND BERM
SEE DETAIL SHEET 64 (TYP.)

TEMP ROCK
CHECK DAM
SEE DETAIL
SHEET 63
(TYP.)

TEMP CLEAN WATER PUMP AROUND
SEE DETAIL SHEET 64 (TYP.)

TRIBUTARY 1

SITE 27 BASELINE

14"
12"
12"
16"
26"
12"

GRAPHIC SCALE
0 10 20
1 inch =10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 27 EROSION AND SEDIMENT CONTROL PLAN

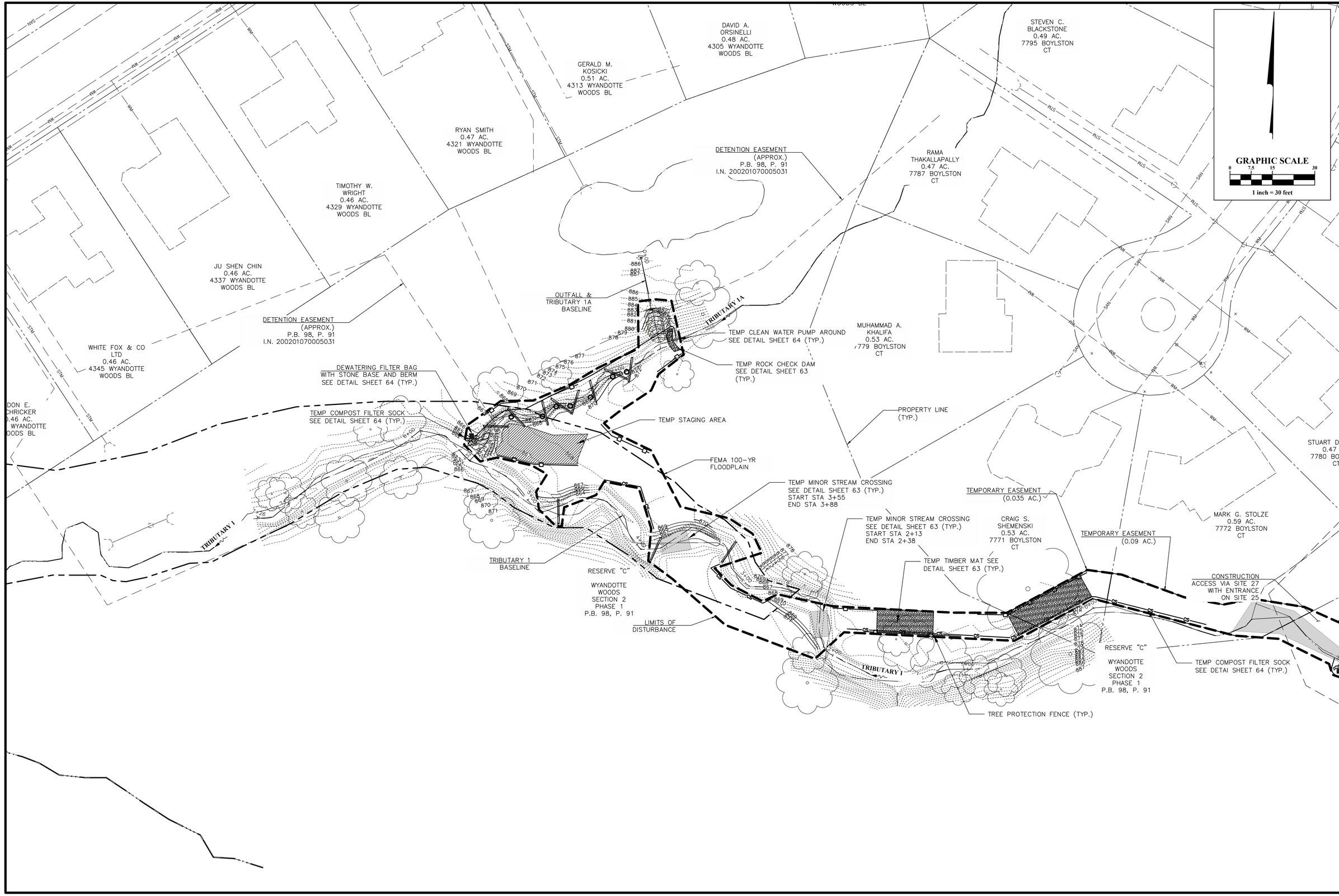
Stantec

DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
71/97



REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR

DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025

SITE 28 EROSION AND SEDIMENT CONTROL PLAN

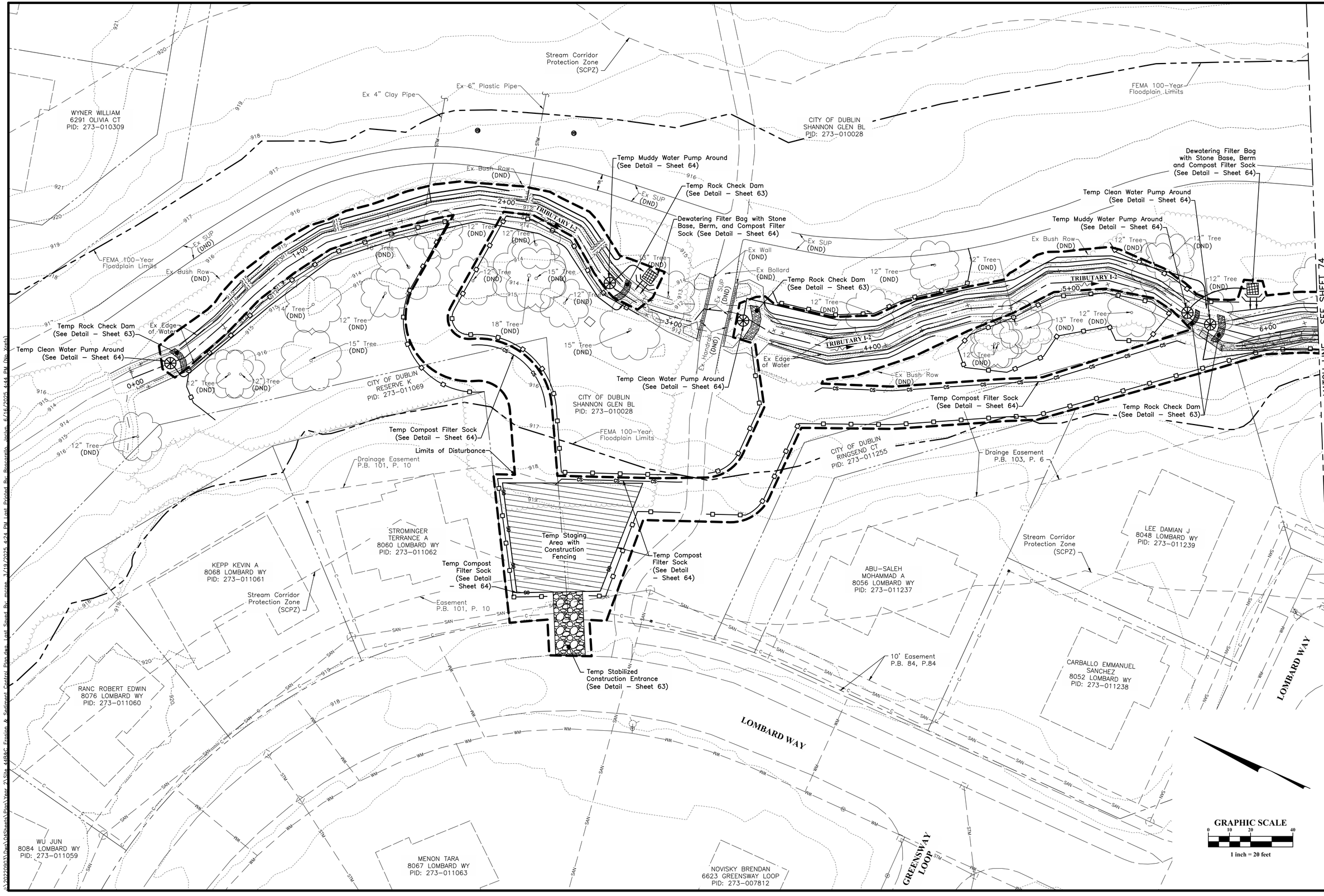
Stantec

DATE
JUNE 2025

SCALE
1" = 30'

JOB NO.
2022-0903

SHEET
72/97



REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A EROSION & SEDIMENT CONTROL PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

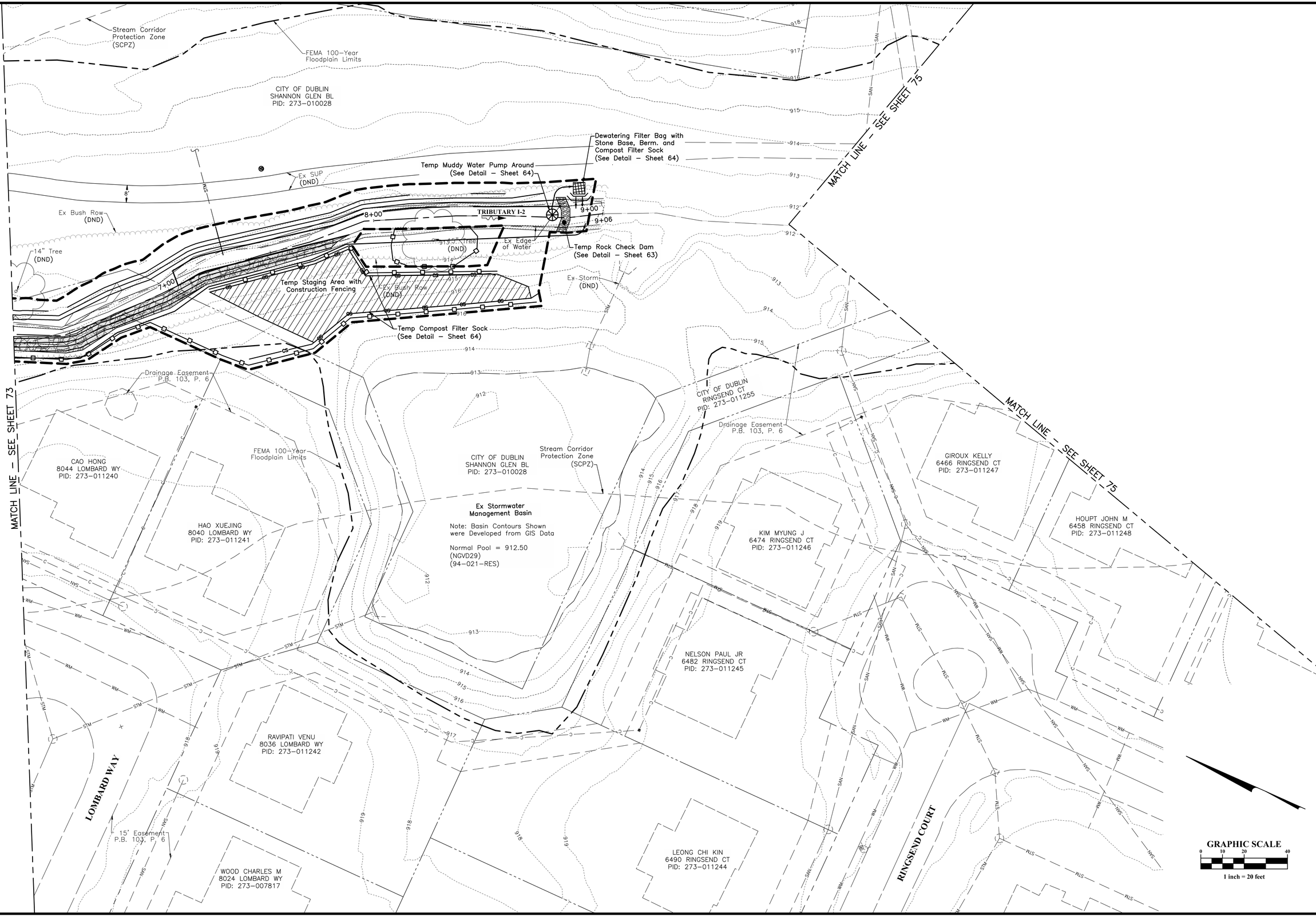
DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
73/97

N:\2022\0903\Dwg\05Sheets\Dwg\Year 2\Site 44\Site 44 Erosion & Sediment Control Plan.dwg, Last Saved By mrzep, 7/18/2025 4:24 PM, Last Plotted By Boscarello, Jaclyn, 6/16/2025 4:44 PM, (No Xrefs)



REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A EROSION & SEDIMENT CONTROL PLAN

EMH&T
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

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
74/97

A:\2022\0903\Dwg\02Sheets\PlanView_2\Site 44\Site 44Erosion & Sediment Control Plan.dgn Last Saved By mgreis 3/19/2025 4:24 PM Last Plotted By Rosenello, Jocelyn 6/16/2025 4:44 PM (No Xrefs)

MATCH LINE – SEE SHEET 74

PRAKEL NANCY S TR
8119 SHANNON GLEN BL
PID: 273-010303

RAI RAJNISH
8123 SHANNON GLEN BL
PID: 273-010304

FEMA 100-Year Floodplain Limits

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

Stream Corridor Protection Zone (SCPZ)

Ex Stormwater Management Basin

Ex SUP (DND)

FEMA Floodway & 100-Year Floodplain Limits

Temp Clean Water Pump Around (See Detail – Sheet 64)

Temp Muddy Water Pump Around (See Detail – Sheet 64)

Temp Rock Check Dam (See Detail – Sheet 63)

Temp Rock Check Dam (See Detail – Sheet 64)

Dewatering Filter Bag with Stone Base, Berm, and Compost Filter Sock (See Detail – Sheet 64)

Temp Compost Filter Sock (See Detail – Sheet 64)

Ex Edge of Water

Ex Wall (DND)

Ex Stm (DND)

Ex Ditch (DND)

TRIBUTARY 1-2

Limits of Disturbance

Drainage Easement P.B. 103, P. 6

Ex Bush Row (DND)

Ex Wood Deck (DND)

CITY OF DUBLIN RINGSEND CT PID: 273-011255

GIROUX KELLY
6466 RINGSEND CT
PID: 273-011247

HOUPT JOHN M
6458 RINGSEND CT
PID: 273-011248

HICKS JOSHUA A
6450 RINGSEND CT
PID: 273-011249

DOAN CHI-HUNG
6442 RINGSEND CT
PID: 273-011250

AL-TAMIM RAED S
6434 RINGSEND CT
PID: 273-011251

ABU-SALEH WALID
6426 RINGSEND CT
PID: 273-011252

BROTHERS MERRILL M
6418 RINGSEND CT
PID: 273-011253

15' Easement P.B. 106, P. 6

RINGSEND COURT

Temp Stabilized Construction Entrance (See Detail – Sheet 63)

Temp Staging Area with Construction Fencing

NORTH FORK INDIAN RUN

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B&C EROSION & SEDIMENT CONTROL PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

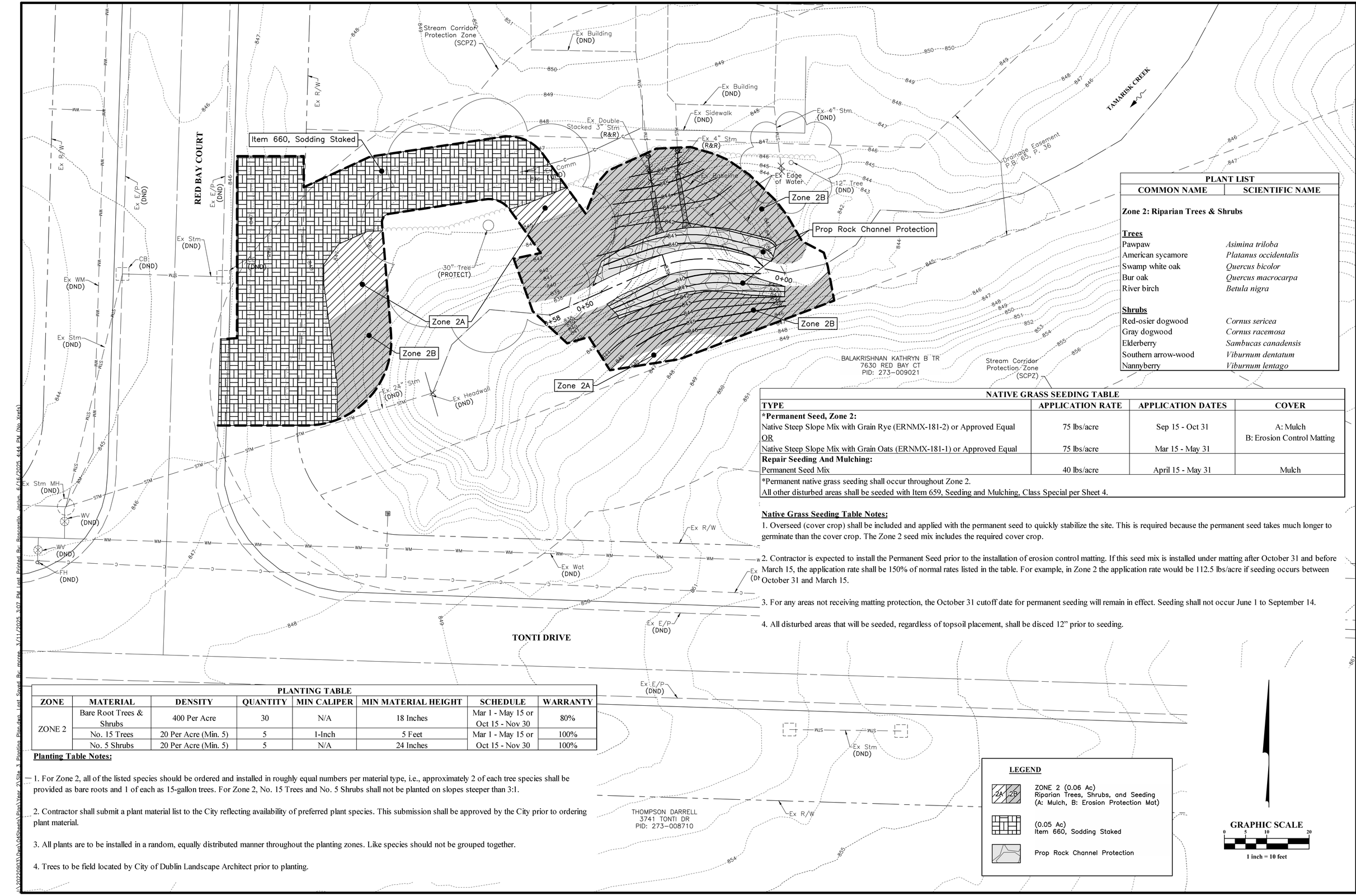
DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
75/97

N:\2022\0903\Dwg\04Struct\Plan\Xref_2A\Site 44B&C Erosion & Sediment Control Plan.dgn Last Saved By: jgregan 6/26/2025 11:19 AM Last Plotted By: jgregan 6/26/2025 11:20 AM (No Xrefs)



PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Zone 2: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Red-osier dogwood	*Cornus sericea*
Gray dogwood	*Cornus racemosa*
Elderberry	*Sambucas canadensis*
Southern arrow-wood	*Viburnum dentatum*
Nannyberry	*Viburnum lentago*

NATIVE GRASS SEEDING TABLE

TYPE	APPLICATION RATE	APPLICATION DATES	COVER
***Permanent Seed, Zone 2:**			
Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	A: Mulch
OR			B: Erosion Control Matting
Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
Repair Seeding And Mulching:			
Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zone 2.			
All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 seed mix includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be disced 12" prior to seeding.

PLANTING TABLE							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 2	Bare Root Trees & Shrubs	400 Per Acre	30	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	5	1-Inch	5 Feet	Mar 1 - May 15 or	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	5	N/A	24 Inches	Oct 15 - Nov 30	100%

Planting Table Notes:

1. For Zone 2, all of the listed species should be ordered and installed in roughly equal numbers per material type, i.e., approximately 2 of each tree species shall be provided as bare roots and 1 of each as 15-gallon trees. For Zone 2, No. 15 Trees and No. 5 Shrubs shall not be planted on slopes steeper than 3:1.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

LEGEND

- 2A 2B — ZONE 2 (0.06 Ac) Riparian Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- (0.05 Ac) Item 660, Sodding Staked
- Prop Rock Channel Protection

GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 3 PLANTING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

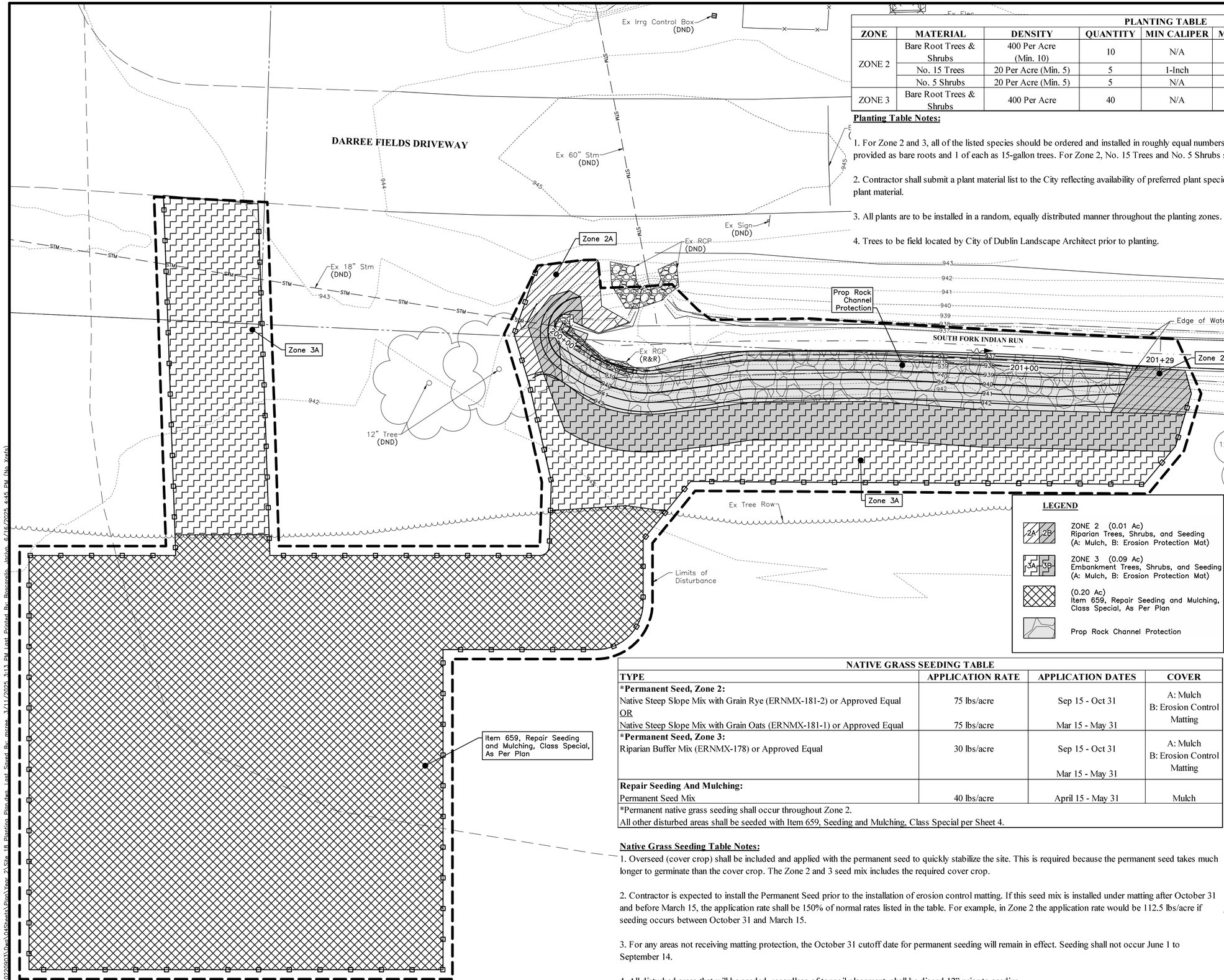
DATE
JUNE 2025

SCALE
1" = 10'

JOB NO.
2022-0903

SHEET
76/97

A:\2022\0903\Dwg\04Sheets\Dim\Year 2\Site 3 Planting Plan.dgn Last Saved By: mmarx 3/11/2025 3:07 PM Last Plotted By: Bascarello, Jason 6/16/2025 4:44 PM (No Xrefs)



PLANTING TABLE

ZONE	MATERIAL	DENSITY	QUANTITY	MIN CALIPER	MIN MATERIAL HEIGHT	SCHEDULE	WARRANTY
ZONE 2	Bare Root Trees & Shrubs	400 Per Acre (Min. 10)	10	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	5	1-Inch	5 Feet	Mar 1 - May 15 or Oct 15 - Nov 30	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	5	N/A	24 Inches		100%
ZONE 3	Bare Root Trees & Shrubs	400 Per Acre	40	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%

Planting Table Notes:

1. For Zone 2 and 3, all of the listed species should be ordered and installed in roughly equal numbers per material type, i.e., approximately 2 of each tree species shall be provided as bare roots and 1 of each as 15-gallon trees. For Zone 2, No. 15 Trees and No. 5 Shrubs shall not be planted on slopes steeper than 3:1.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

LEGEND

- 2A / 2B — ZONE 2 (0.01 Ac) Riparian Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- 3A / 3B — ZONE 3 (0.09 Ac) Embankment Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- (0.20 Ac) Item 659, Repair Seeding and Mulching, Class Special, As Per Plan
- Prop Rock Channel Protection

NATIVE GRASS SEEDING TABLE

TYPE	APPLICATION RATE	APPLICATION DATES	COVER
***Permanent Seed, Zone 2:** Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal OR Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre 75 lbs/acre	Sep 15 - Oct 31 Mar 15 - May 31	A: Mulch B: Erosion Control Matting
***Permanent Seed, Zone 3:** Riparian Buffer Mix (ERNMX-178) or Approved Equal	30 lbs/acre	Sep 15 - Oct 31 Mar 15 - May 31	A: Mulch B: Erosion Control Matting
Repair Seeding And Mulching: Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zone 2. All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 and 3 seed mix includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be disced 12" prior to seeding.

PLANT LIST

COMMON NAME	SCIENTIFIC NAME
Zone 2: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Red-osier dogwood	*Cornus sericea*
Gray dogwood	*Cornus racemosa*
Elderberry	*Sambucas canadensis*
Southern arrow-wood	*Viburnum dentatum*
Nannyberry	*Viburnum lentago*
Zone 3: Embankment Trees & Shrubs	
Pawpaw	*Asimina triloba*
Sugar maple	*Acer saccharum*
Ohio buckeye	*Aesculus glabra*
Serviceberry	*Amelanchier laevis*
Common hackberry	*Celtis occidentalis*
Eastern redbud	*Cercis canadensis*
Gray dogwood	*Cornus racemosa*
Fragrant sumac	*Rhus aromatica 'Gro-Low'*
Staghorn sumac	*Rhus typhina*
Blackhaw	*Viburnum prunifolium*

GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 18 PLANTING PLAN

EMH&T
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

DATE: JUNE 2025

SCALE: 1" = 10'

JOB NO.: 2022-0903

SHEET: 77/97

I:\2022\0903\Dwg\02Sheets\Dwg\Year 2\Site_18_Planting_Plan.dwg, last Saved By: mreed, 7/11/2025 3:13 PM, last Plotted By: Boscarello, Joslyn, 6/16/2025 3:45 PM, NONE, 445 (No Xref)

PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Willow Live Stakes	
Peachleaf willow	*Salix amygdaloides*
Pussy willow	*Salix discolor*
Sandbar willow	*Salix interior*
Black willow	*Salix nigra*
Zone 2 & 3: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina Triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River Birch	*Betula nigra*
Shrubs	
Red-osier dogwood	*Cornus sericea*
Gray dogwood	*Cornus racemosa*
Elderberry	*Sambucas canadensis*
Southern arrow-wood	*Viburnum dentatum*
Nannyberry	*Viburnum lentago*

NATIVE GRASS SEEDING TABLE			
TYPE	**APPLICATION RATE**	**APPLICATION DATES**	**COVER**
***Permanent Seed, Zone 2:** Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal OR Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre 75 lbs/acre	Sep 15 - Oct 31 Mar 15 - May 31	A: Mulch B: Slope Erosion Protection Matting
***Permanent Seed, Zone 3:** Riparian Buffer Mix (ERNMX-178) or Approved Equal	30 lbs/acre	Sep 15 - Oct 31 Mar 15 - May 31	A: Mulch B: Erosion Control Matting
Repair Seeding And Mulching: Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3. All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 seed mixe includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be discd 12" prior to seeding.

PLANTING TABLE							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 1	Live Stakes	1 Per Linear Foot of Bank in 2 Offset Rows	140	1/2-Inch	2 Feet	Nov 1 - Apr 30	90%
ZONES 2 & 3	Bare Root Trees & Shrubs	400 Per Acre	112	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	6	1-Inch	5 Feet	Mar 1 - May 15 or Oct 15 - Nov 30	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	6	N/A	24 Inches		100%

Planting Table Notes:

1. For Zones 2 and 3, all of the listed species should be ordered and installed in roughly equal numbers per material type. For example in Zone 2, approximately 11 of each tree and shrub species shall be provided as bare roots and 1 of each as 15-gallon trees and 5-gallon shrubs.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

5. Live stakes shall be installed per the Live Stake Planting Detail on Sheet 87.

GRAPHIC SCALE
0 5 10 20
1 inch =20 feet

LEGEND
- ZONE 1 (140 Linear Ft) Live Stakes
- ZONE 2 (0.04 Ac) Riparian Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- ZONE 3 (0.24 Ac) Embankment Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- (0.03 Ac) Item 659, Repair Seeding and Mulching, Class Special, As Per Plan

REVISIONS
MARK | DATE | DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 22 PLANTING PLAN

Stantec

DATE: JUNE 2025
SCALE: 1" = 20'
JOB NO.: 2022-0903
SHEET: 78/97

PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Zone 2: Riparian Trees & Shrubs	
Trees	
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Buttonbush	*Cornus racemosa*
Spicebush	*Lindera benzoin*

NATIVE GRASS SEEDING TABLE			
TYPE	**APPLICATION RATE**	**APPLICATION DATES**	**COVER**
***Permanent Seed, Zone 2:**			A: Mulch B: Slope Erosion Protection Matting
Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	
OR			
Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
Repair Seeding And Mulching:			
Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3. All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

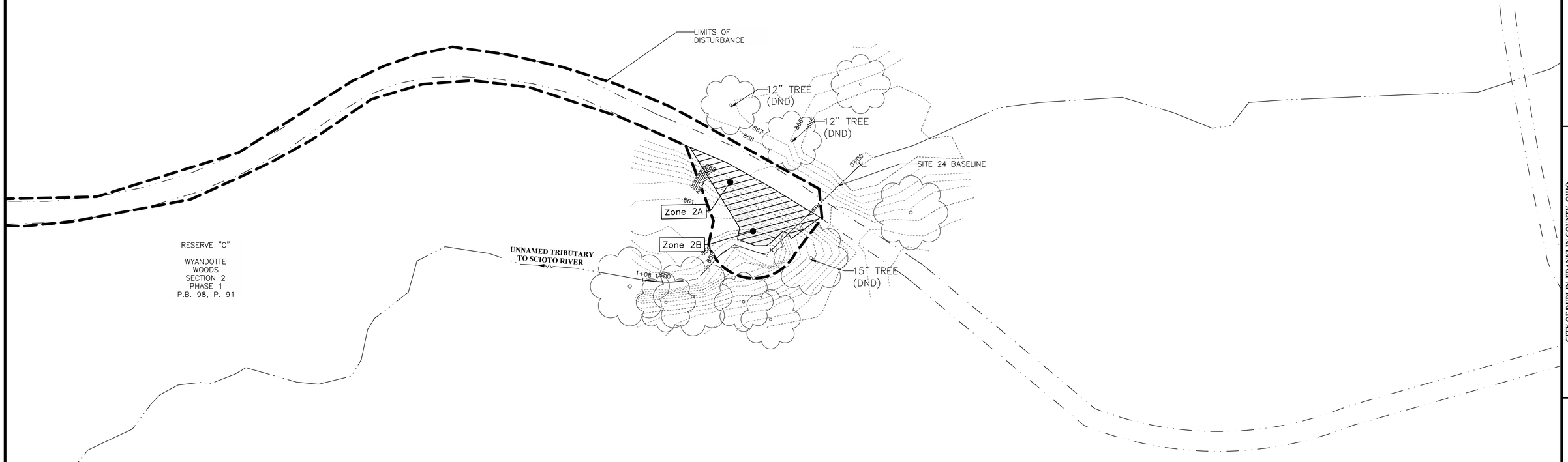
Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 seed mix includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be discd 12" prior to seeding.



GRAPHIC SCALE
0 5 10 20
1 inch =20 feet

PLANTING TABLE							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 2	No. 15 Trees	20 Per Acre (Min. 4)	4	1-Inch	5 Feet	Mar 1 - May 15 or	100%
	No. 5 Shrubs	20 Per Acre (Min. 4)	4	N/A	24 Inches	Oct 15 - Nov 30	100%

Planting Table Notes:

1. For Zone 2, all of the listed species should be ordered and installed in roughly equal numbers per material type. For example in Zone 2, approximately 1 of each tree species shall be provided as 15-gallon trees and 2 of each shrub species shall be provided as 5-gallon shrubs..

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

LEGEND

2A 2B — ZONE 2 (0.02 Ac)
Riparian Trees, Shrubs, and Seeding
(A: Mulch, B: Erosion Protection Mat)

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 24 PLANTING PLAN

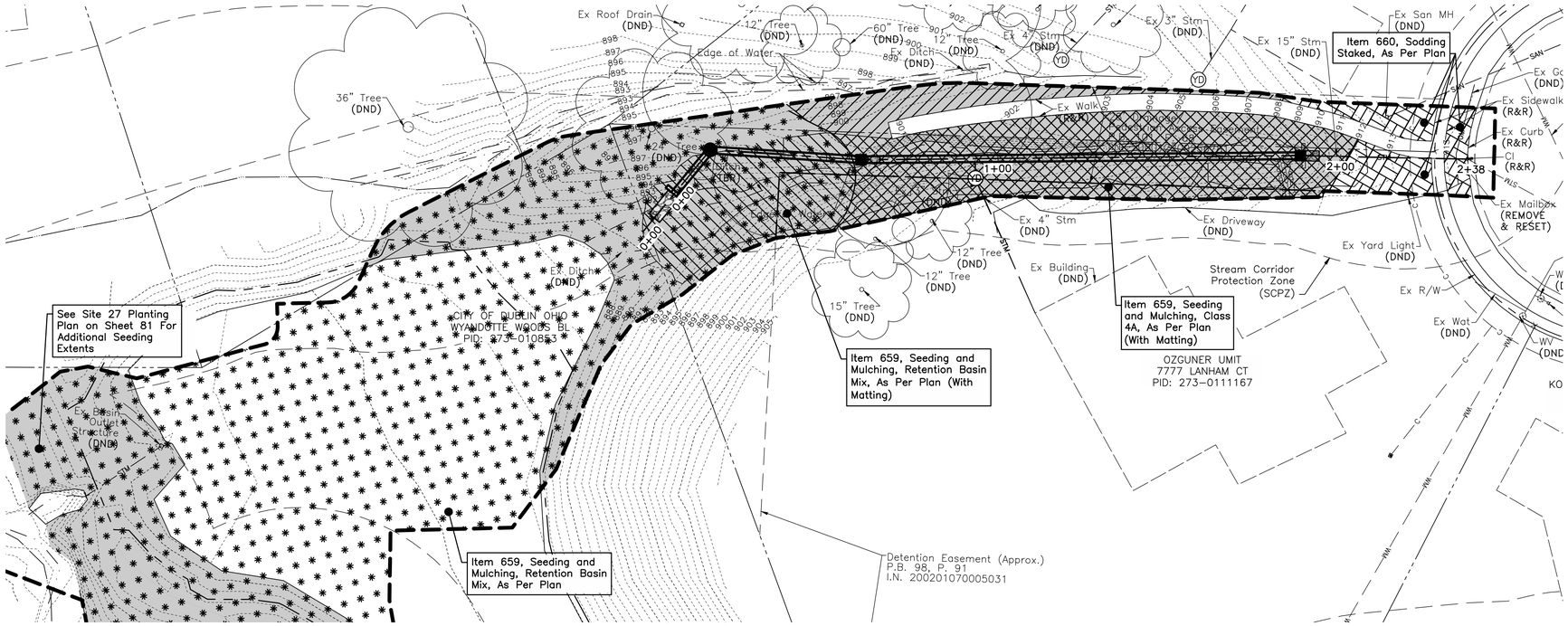
Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
79/97



LEGEND

- (0.09 Ac) Item 659, Seeding and Mulching, Class 4A, As Per Plan (A: Mulch, B: Slope Erosion Control Mat, C: Turf Reinforcement Mat)
- (0.38 Ac) Item 659, Seeding and Mulching, Retention Basin Mix, As Per Plan (A: Mulch, B: Slope Erosion Control Mat, C: Turf Reinforcement Mat)
- (0.02 Ac) Item 660, Sodding Staked
- Prop Rock Channel Protection

NATIVE GRASS SEEDING TABLE

TYPE	APPLICATION RATE	APPLICATION DATES	COVER
Permanent Seed, Item 659, Seeding and Mulching, Class 4A, As Per Plan Refer to ODOT CMS 659.09 for Seeding Mix	Refer to ODOT CMS 659.09 for Application Rate	Refer to ODOT CMS 659.09 for Application Dates	A: Mulch B: Erosion Control Matting C: Turf Reinforcement Mat
Permanent Seed, Item 659, Seeding and Mulching, Retention Basin Mix, As Per Plan Retention Basin Wildlife Mix (ERNMX-127) or Approved Equal with Grain Rye OR Retention Basin Wildlife Mix (ERNMX-127) or Approved Equal with Grain Rye with Japanese Millet or Barnyard Grass	Permanent Seed: 20 lbs/acre Grain Rye: 30 lbs/acre Japanese Millet/Barnyard Grass: 10 lbs/acre	Sep 1 - Apr 30 May 1 - Aug 31	A: Mulch B: Erosion Control Matting C: Turf Reinforcement Mat
Repair Seeding And Mulching: Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in the retention basin mix the application rate would be 45 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the August 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be disced 12" prior to seeding.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 25 PLANTING PLAN

EMHT
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

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
80/97

AX\2022\0903\Data\45Sheets\Plan\Year A\Site_25_Planting_Planting_Last_Saved_By_mreza_3/25/2025_10:06_AM_Last_Printed_By_Broncarillo_depw_6/16/2025_1:45_PM_(No_Xrefs)

PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Zone 2: Riparian Trees & Shrubs	
Trees	
Bur oak	*Quercus macrocarpa*
Shrubs	
Buttonbush	*Cornus racemosa*
Spicebush	*Lindera benzoin*

PLANTING TABLE							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 2	No. 15 Trees	20 Per Acre (Min. 1)	1	1-Inch	5 Feet	Mar 1 - May 15 or	100%
	No. 5 Shrubs	20 Per Acre (Min. 2)	2	N/A	24 Inches	Oct 15 - Nov 30	100%

Planting Table Notes:

1. For Zone 2, all of the listed species should be ordered and installed in roughly equal numbers per material type. For example in Zone 2, approximately 1 of each tree species shall be provided as 15-gallon trees and approximately 1 of each shrub species shall be provided as 5-gallon shrubs.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

5. No trees or shrubs shall be planted on the storm water basin embankment.

NATIVE GRASS SEEDING TABLE			
TYPE	**APPLICATION RATE**	**APPLICATION DATES**	**COVER**
***Permanent Seed, Zone 2:**			A: Mulch B: Erosion Control Matting
Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	
OR			
Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
***Item 659 Seeding and Mulching, Retention Basin Mix, Zones A, B, and C**			A: Mulch B: Slope Erosion Protection Matting C: Turn Reinforcement Matting
Overseed:			
Japanese Millet (Echinochloa Esculenta) or	10 lbs/acre	May 1 - Aug 31	
Winter Rye (Grain) (Secale Cereale)	30 lbs/acre	Sep 1 - Apr 30	
Permanent Seed:			
Ernset Seeds ERNMX-126, Retention Basin Floor Mix or Approved Equal	20-40 lbs/acre	Mar 15-May 30	
Repair Seeding And Mulching:			
Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3.			
All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

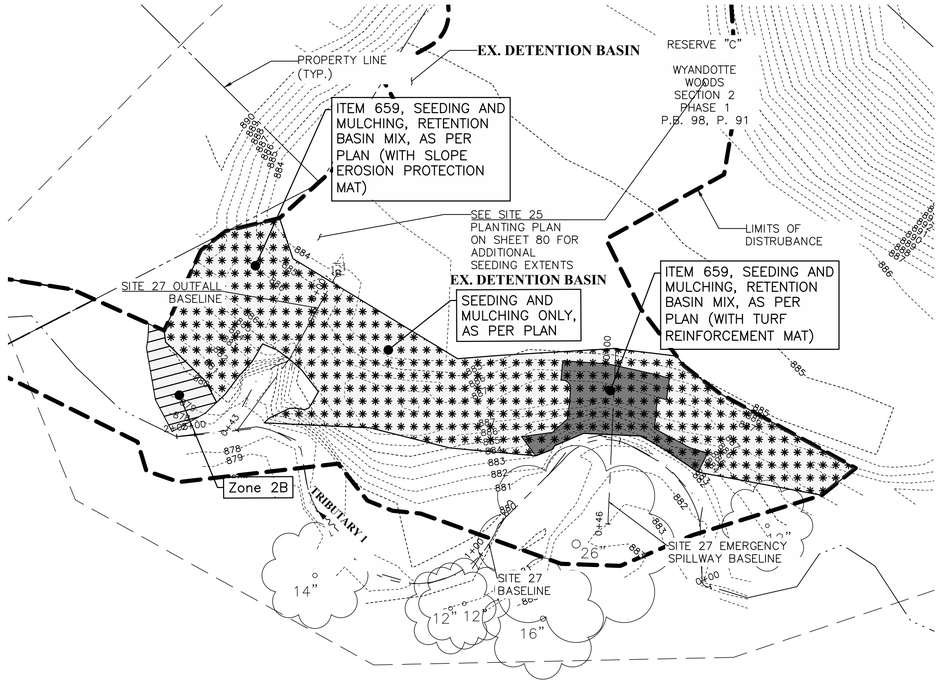
1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 seed mix includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre or in the retention basin mix the application rate would be 30-60 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be discd 12" prior to seeding.

GRAPHIC SCALE
0 5 10 20
1 inch =20 feet



LEGEND

2A 2B — ZONE 2 (0.01 Ac)
Riparian Trees, Shrubs, and Seeding
(A: Mulch, B: Erosion Protection Mat)

A B C — (0.09 Ac)
Item 659, Seeding and Mulching, Retention Basin Mix, As Per Plan
(A: Mulch, B: Erosion Protection Mat, C: Turf Reinforcement Mat)

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 27 PLANTING PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
81/97

BOYLSTON COURT

CRAIG S. SHEMENSKI
0.53 AC.
7771 BOYLSTON CT

MARK G. STOLZE
0.59 AC.
7772 BOYLSTON CT

STUART D. LUCAS
0.47 AC.
7780 BOYLSTON CT

DETENTION EASEMENT
(APPROX.)
P.B. 98, P. 91
I.N. 200201070005031

PROPERTY LINE
(TYP.)

MATCHLINE SEE SHEET 83

Zone 2A

Zone 2B

Zone 1

TRIBUTARY 1

TRIBUTARY 1 BASELINE

LIMITS OF DISTRUBANCE

SEE SITE 27 PLANTING PLAN ON SHEET 81 FOR DETAIL

RESERVE "C"
WYANDOTTE WOODS
SECTION 2
PHASE 1
P.B. 98, P. 91

15"

12"

NOTES:
1. REFER TO SHEETS 83 FOR THE PLANT LIST, PLANTING TABLE, NATIVE SEED MIX TABLE, AND NOTES.

LEGEND

ZONE 1 (609 Linear Ft)
Live Stakes

2A 2B — ZONE 2 (0.40 Ac)
Riparian Trees, Shrubs, and Seeding
(A: Mulch, B: Erosion Protection Mat)

A B — (0.01 Ac)
Item 659, Seeding and Mulching,
Retention Basin Mix, As Per Plan
(A: Mulch, B: Erosion Protection Mat)

GRAPHIC SCALE
0 5 10 20
1 inch =20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 PLANTING PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
82/97

PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Live Stakes	
Buttonbush	*Cephalanthus occidentalis*
Silky dogwood	*Cornus amomum*
Ninebark	*Physocarpus opulifolius*
Zone 2: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Buttonbush	*Cornus racemosa*
Spicebush	*Lindera benzoin*

PLANTING TABLE							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 1	Live Stakes	1 Per Linear Foot of Bank	609	1/2-Inch	2 Feet	Nov 1 - Apr 30	90%
ZONE 2	Bare Root Trees & Shrubs	400 Per Acre	160	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	8	1-Inch	5 Feet	Mar 1 - May 15 or	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	8	N/A	24 Inches	Oct 15 - Nov 30	100%

Planting Table Notes:

1. For Zone 2, all of the listed species should be ordered and installed in roughly equal numbers per material type. For example in Zone 2, approximately 22 of each tree and shrub species shall be provided as bare roots, approximately 1 of each tree species shall be provided as 15-gallon trees and approximately 4 of each shrub species shall be provided as 5-gallon shrubs.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

5. Live stakes shall be installed per the Live Stake Planting Detail on Sheet 77 along Zone 1.

6. No trees or shrubs shall be planted on the storm water basin embankment.

NATIVE GRASS SEEDING TABLE			
TYPE	**APPLICATION RATE**	**APPLICATION DATES**	**COVER**
***Permanent Seed, Zone 2:**			
Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	A: Mulch B: Erosion Control Matting
OR			
Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
***Item 659 Seeding and Mulching, Retention Basin Mix, Zones A, B, and C**			
Overseed:			A: Mulch B: Slope Erosion Protection Mat
Japanese Millet (Echinochloa Esculenta) or	10 lbs/acre	May 1 - Aug 31	
Winter Rye (Grain) (Secale Cereale)	30 lbs/acre	Sep 1 - Apr 30	
Permanent Seed:			
Ernset Seeds ERNMX-126, Retention Basin Floor Mix or Approved Equal	20-40 lbs/acre	Mar 15-May 30	
Repair Seeding And Mulching:			
Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3. All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 seed mix includes the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre or in the retention basin mix the application rate would be 30-60 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be discd 12" prior to seeding.

EX. DETENTION BASIN

RESERVE "C"
WYANDOTTE WOODS SECTION 2 PHASE 1 P.B. 98, P. 91

ITEM 659, SEEDING AND MULCHING, RETENTION BASIN MIX, AS PER PLAN (WITH SLOPE EROSION PROTECTION MAT)

DETENTION EASEMENT (APPROX.) P.B. 98, P. 91 I.N. 200201070005031

P.B. 98, P. 91 I.N. 200201070005031

TRIBUTARY 1A

OUTFALL AND TRIBUTARY 1A BASELINE

PROPERTY LINE (TYP.)

RESERVE "C"
WYANDOTTE WOODS SECTION 2 PHASE 1 P.B. 98, P. 91

LIMITS OF DISTURBANCE

TRIBUTARY 1 BASELINE

FEMA 100-YR FLOODPLAI)

TRIBUTARY 1

MATCHLINE SEE SHEET 82

Zone 1
Zone 2A
Zone 2B

GRAPHIC SCALE
0 5 10 20
1 inch =20 feet

LEGEND

ZONE 1 (609 Linear Ft)
Live Stakes

ZONE 2 (0.40 Ac)
Riparian Trees, Shrubs, and Seeding
(A: Mulch, B: Erosion Protection Mat)

(0.01 Ac)
Item 659, Seeding and Mulching, Retention Basin Mix, As Per Plan
(A: Mulch, B: Erosion Protection Mat)

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 28 PLANTING PLAN

Stantec

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
83/97

PLANTING TABLE (SITE 44A)							
ZONE	**MATERIAL**	**DENSITY**	**QUANTITY**	**MIN CALIPER**	**MIN MATERIAL HEIGHT**	**SCHEDULE**	**WARRANTY**
ZONE 2	Bare Root Trees & Shrubs	400 Per Acre	70	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	5	1-Inch	5 Feet	Mar 1 - May 15 or	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	5	N/A	24 Inches	Oct 15 - Nov 30	100%
ZONE 3	Bare Root Trees & Shrubs	400 Per Acre	60	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%

Planting Table Notes:

1. For Zone 2 and 3, all of the listed species should be ordered and installed in roughly equal numbers per material type, i.e., approximately 2 of each tree species shall be provided as bare roots and 1 of each as 15-gallon trees. For Zone 2, No. 15 Trees and No. 5 Shrubs shall not be planted on slopes steeper than 3:1.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

PLANT LIST	
COMMON NAME	**SCIENTIFIC NAME**
Zone 2: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Red-osier dogwood	*Cornus sericea*
Gray dogwood	*Cornus racemosa*
Elderberry	*Sambucas canadensis*
Southern arrow-wood	*Viburnum dentatum*
Nannyberry	*Viburnum lentago*
Zone 3: Embankment Trees & Shrubs	
Pawpaw	*Asimina triloba*
Sugar maple	*Acer saccharum*
Ohio buckeye	*Aesculus glabra*
Serviceberry	*Amelanchier laevis*
Common hackberry	*Celtis occidentalis*
Eastern redbud	*Cercis canadensis*
Gray dogwood	*Cornus racemosa*
Fragrant sumac	*Rhus aromatica 'Gro-Low'*
Staghorn sumac	*Rhus typhina*
Blackhaw	*Viburnum prunifolium*

LEGEND

- ZONE 1 (630 Linear Ft) Willow Live Stakes
- 2A 2B — ZONE 2 (0.15 Ac) Riparian Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- 3A 3B — ZONE 3 (0.14 Ac) Embankment Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- (0.40 Ac) Item 659, Repair Seeding and Mulching, Class Special, As Per Plan
- Prop Rock Channel Protection

NATIVE GRASS SEEDING TABLE			
TYPE	**APPLICATION RATE**	**APPLICATION DATES**	**COVER**
***Permanent Seed, Zone 2:** Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	A: Mulch B: Erosion Control Matting
OR Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
***Permanent Seed, Zone 3:** Riparian Buffer Mix (ERNMX-178) or Approved Equal	30 lbs/acre	Sep 15 - Oct 31 Mar 15 - May 31	A: Mulch B: Erosion Control Matting
Repair Seeding And Mulching: Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3. All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 and 3 seed mixes include the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be disced 12" prior to seeding.

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

MATCH LINE – SEE SHEET 85

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A PLANTING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
84/97

Plotted: 6/16/2025 4:45 PM (No Xrefs)
A:\2022\0903\Dwg\04Sheets\Plan\Year 2\Site 44\Site 44Rev Planting Plan.dgn Last Saved By: bpascarello 6/12/2025 4:26 PM Last Printed By: bpascarello

NOTE:
See Sheet 84 for Planting Tables for Site 44A

Stream Corridor Protection Zone (SCPZ)

FEMA 100-Year Floodplain Limits

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

MATCH LINE - SEE SHEET 86

Ex SUP (DND)

Zone 1

Zone 3B

Ex Bush Row (DND)

8+00

TRIBUTARY I-2

9+00

9+06

Zone 2B

9" -15" Tree (DND)

Edge of Water

14" Tree (DND)

7+00

Ex Bush Row (DND)

Ex Storm (DND)

Zone 3B

Drainage Easement P.B. 103, P. 6

Item 659, Repair Seeding and Mulching, Class Special, As Per Plan

Prop Rock Channel Protection

MATCH LINE - SEE SHEET 84

CAO HONG
8044 LOMBARD WY
PID: 273-011240

FEMA 100-Year Floodplain Limits

HAO XUEJING
8040 LOMBARD WY
PID: 273-011241

CITY OF DUBLIN
SHANNON GLEN BL
PID: 273-010028

Stream Corridor Protection Zone (SCPZ)

Note: Basin Contours Shown were Developed from GIS Data

Normal Pool = 912.50
(NGVD29)
(94-021-RES)

CITY OF DUBLIN
RINGSEND CT
PID: 273-011255

Drainage Easement P.B. 103, P. 6

GIROUX KELLY
6466 RINGSEND CT
PID: 273-011247

HOUPT JOHN M
6458 RINGSEND CT
PID: 273-011248

KIM MYUNG J
6474 RINGSEND CT
PID: 273-011246

NELSON PAUL JR
6482 RINGSEND CT
PID: 273-011245

LEONG CHI KIN
6490 RINGSEND CT
PID: 273-011244

RAVIPATI VENU
8036 LOMBARD WY
PID: 273-011242

RINGSEND COURT

LEGEND

- ZONE 1 — Willow Live Stakes
- 2A / 2B — ZONE 2 — Riparian Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- 3A / 3B — ZONE 3 — Embankment Trees, Shrubs, and Seeding (A: Mulch, B: Erosion Protection Mat)
- Item 659, Repair Seeding and Mulching, Class Special, As Per Plan
- Prop Rock Channel Protection

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44A PLANTING PLAN

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, Ohio 43054
Phone: 614.775.4500 Toll free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
85/97

J:\2022\0903\Dwg\04Sheets\Plan\Year 2\Site 44\B\C Planting Plan.dwg, Last Saved By: lbonacello, 6/12/2025 4:26 PM, Last Printed By: Bonacello, Jaclyn, 6/16/2025 4:45 PM (No Xref's)

PLANTING TABLE							
ZONE	MATERIAL	DENSITY	QUANTITY	MIN CALIPER	MIN MATERIAL HEIGHT	SCHEDULE	WARRANTY
ZONE 2	Bare Root Trees & Shrubs	400 Per Acre	30	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%
	No. 15 Trees	20 Per Acre (Min. 5)	5	1-Inch	5 Feet	Mar 1 - May 15 or Oct 15 - Nov 30	100%
	No. 5 Shrubs	20 Per Acre (Min. 5)	5	N/A	24 Inches		100%
ZONE 3	Bare Root Trees & Shrubs	400 Per Acre	100	N/A	18 Inches	Mar 1 - May 15 or Oct 15 - Nov 30	80%

Planting Table Notes:

1. For Zone 2 and 3, all of the listed species should be ordered and installed in roughly equal numbers per material type, i.e., approximately 2 of each tree species shall be provided as bare roots and 1 of each as 15-gallon trees. For Zone 2, No. 15 Trees and No. 5 Shrubs shall not be planted on slopes steeper than 3:1.

2. Contractor shall submit a plant material list to the City reflecting availability of preferred plant species. This submission shall be approved by the City prior to ordering plant material.

3. All plants are to be installed in a random, equally distributed manner throughout the planting zones. Like species should not be grouped together.

4. Trees to be field located by City of Dublin Landscape Architect prior to planting.

NATIVE GRASS SEEDING TABLE			
TYPE	APPLICATION RATE	APPLICATION DATES	COVER
***Permanent Seed, Zone 2:**			
Native Steep Slope Mix with Grain Rye (ERNMX-181-2) or Approved Equal	75 lbs/acre	Sep 15 - Oct 31	A: Mulch B: Erosion Control Matting
OR			
Native Steep Slope Mix with Grain Oats (ERNMX-181-1) or Approved Equal	75 lbs/acre	Mar 15 - May 31	
***Permanent Seed, Zone 3:**			
Riparian Buffer Mix (ERNMX-178) or Approved Equal	30 lbs/acre	Sep 15 - Oct 31	A: Mulch B: Erosion Control Matting
		Mar 15 - May 31	
Repair Seeding And Mulching:			
Permanent Seed Mix	40 lbs/acre	April 15 - May 31	Mulch
*Permanent native grass seeding shall occur throughout Zones 2 and 3.			
All other disturbed areas shall be seeded with Item 659, Seeding and Mulching, Class Special per Sheet 4.			

Native Grass Seeding Table Notes:

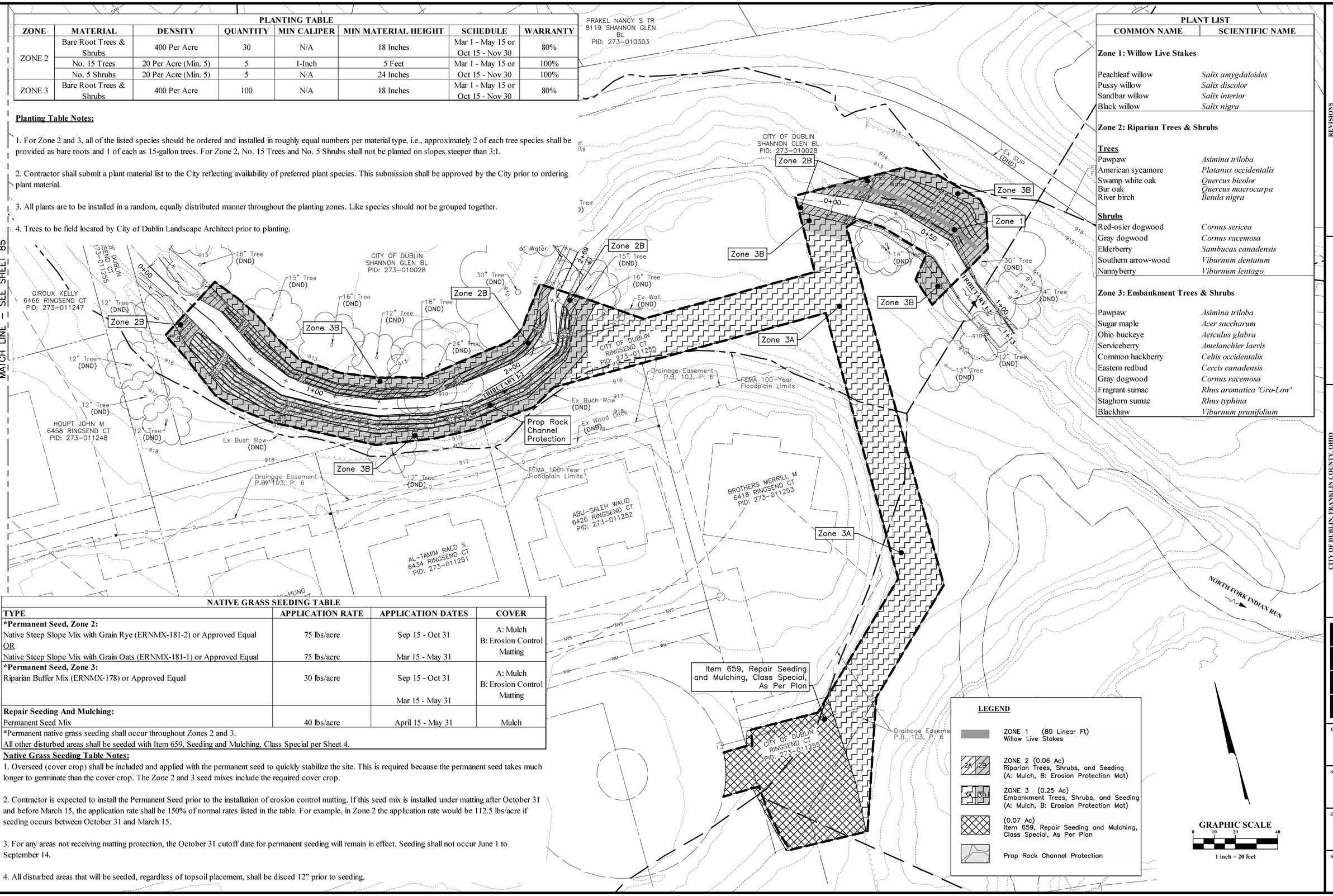
1. Overseed (cover crop) shall be included and applied with the permanent seed to quickly stabilize the site. This is required because the permanent seed takes much longer to germinate than the cover crop. The Zone 2 and 3 seed mixes include the required cover crop.

2. Contractor is expected to install the Permanent Seed prior to the installation of erosion control matting. If this seed mix is installed under matting after October 31 and before March 15, the application rate shall be 150% of normal rates listed in the table. For example, in Zone 2 the application rate would be 112.5 lbs/acre if seeding occurs between October 31 and March 15.

3. For any areas not receiving matting protection, the October 31 cutoff date for permanent seeding will remain in effect. Seeding shall not occur June 1 to September 14.

4. All disturbed areas that will be seeded, regardless of topsoil placement, shall be disced 12" prior to seeding.

PLANT LIST	
COMMON NAME	SCIENTIFIC NAME
Zone 1: Willow Live Stakes	
Peachleaf willow	*Salix amygdaloides*
Pussy willow	*Salix discolor*
Sandbar willow	*Salix interior*
Black willow	*Salix nigra*
Zone 2: Riparian Trees & Shrubs	
Trees	
Pawpaw	*Asimina triloba*
American sycamore	*Platanus occidentalis*
Swamp white oak	*Quercus bicolor*
Bur oak	*Quercus macrocarpa*
River birch	*Betula nigra*
Shrubs	
Red-osier dogwood	*Cornus sericea*
Gray dogwood	*Cornus racemosa*
Elderberry	*Sambucas canadensis*
Southern arrow-wood	*Viburnum dentatum*
Nannyberry	*Viburnum lentago*
Zone 3: Embankment Trees & Shrubs	
Pawpaw	*Asimina triloba*
Sugar maple	*Acer saccharum*
Ohio buckeye	*Aesculus glabra*
Serviceberry	*Amelanchier laevis*
Common hackberry	*Celtis occidentalis*
Eastern redbud	*Cercis canadensis*
Gray dogwood	*Cornus racemosa*
Fragrant sumac	*Rhus aromatica 'Gro-Low'*
Staghorn sumac	*Rhus typhina*
Blackhaw	*Viburnum prunifolium*



REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
SITE 44B&C PLANTING PLAN

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
86/97

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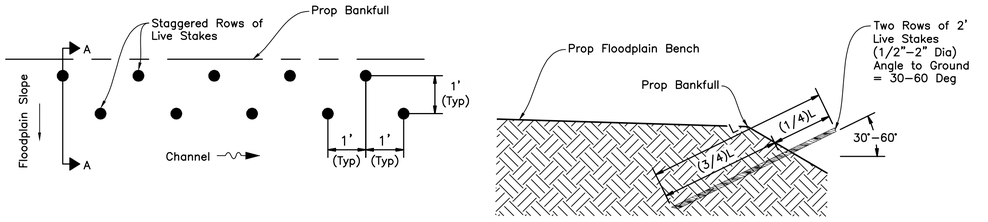
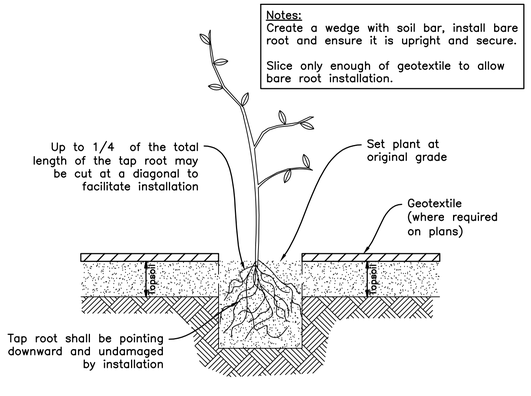
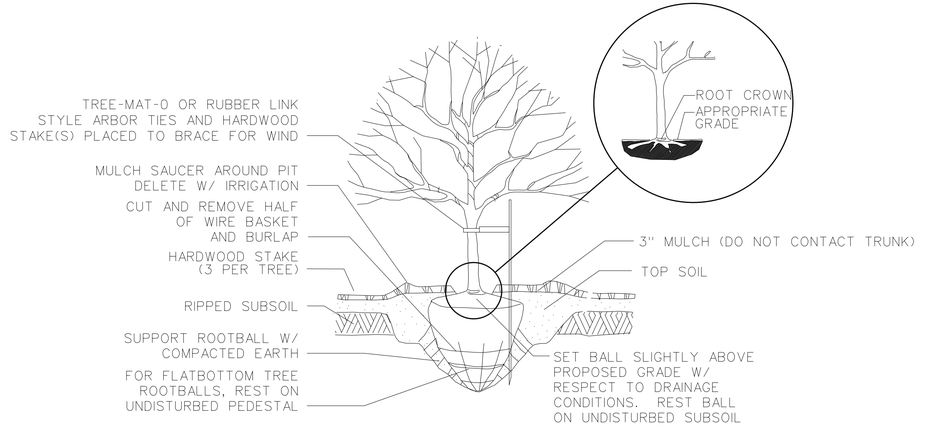


PLAN VIEW **SECTION A-A**

DETAIL
Live Stake Planting Detail — Not to Scale



DETAIL
Bare Root Planting Detail — Not to Scale



DETAIL
#5 and #15 Potted Planting Detail — Not to Scale

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
PLANTING DETAILS

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
87/97

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SITE PREPARATION AND TOPSOIL PLACEMENT

1. SUBMITTALS:

1.1. Contractor shall submit topsoil test results according to Item 653, Topsoil Furnished and Placed, As Per Plan.

1.2. Prior to placing topsoil, the Contractor shall have approval of subgrade elevations according to Item Spec, Grade Checking, As Per Plan.

1.3. Prior to seeding, the Contractor shall have approval of final grade elevations according to Item Spec, Grade Checking, As Per Plan.

2. CONSTRUCTION METHODS:

2.1. Contractor shall prepare the site in conformance with Item 652, Placing Stockpiled Topsoil, As Per Plan and Item 653, Topsoil Furnished and Placed, As Per Plan.

PLANTING TREES AND SHRUBS

3. SUBMITTALS

3.1. Prior to the start of work on this item, the Contractor shall submit the nursery order and bill of lading from the nursery to the City for review and approval.

3.1.1. Within thirty (30) days of the award of the contract, the Contractor shall submit a complete listing of the proposed planting materials to be provided under this section to the City for approval. The City will review the submitted materials. If deficient, as solely determined by the City, additional information shall be forwarded to the City. Any problems with obtaining any of the specified plant materials shall be forwarded in writing to the City. The cause of the acquisition problems shall be discussed in full and a list of vendors contacted shall be included. The Contractor shall be aware that more than one (1) vendor may be required to obtain all the necessary plant materials. Suggestions concerning appropriate substitutions may be included with this correspondence; however, only the City may approve such substitutions.

4. MATERIALS

4.1. The stream corridor shall be planted with a variety of native, cold–hardy tree and shrub species in accordance with the Planting Tables on Sheets 76 to 86. Final species selection shall be approved by the City in writing prior to purchasing the materials. All plants shall be healthy, vigorous, stress–free specimens free from harmful defects, decay, disfigured stems and roots, plant diseases, and insect pests.

4.2. No material is to be delivered until Landscaper and City are in agreement that the particular zone is ready for planting.

4.3. For each zone and for each material category, all of the listed species should be ordered and installed in roughly equal numbers.

4.4. Plant quality and size: All plants shall be true to type and nomenclature and typical of their species or variety. Ensure that all plant materials conform to the current edition of the American Standard for Nursery Stock, as published by the American Nursery and Landscape Association. They shall have a normal habit of growth with well–developed branch systems and vigorous root systems. They shall be sound, healthy, and vigorous plants, free from visible defects, disfiguration, injury, recognizable disease of any kind, insect eggs, borers, and any infestation. All plants shall be nursery grown in a suitable growth medium. It is the responsibility of the Contractor to inspect the plants before removal from the nursery where they have been grown to make sure that the plants meet these requirements.

4.5. All plants shall conform to all sizes and measurements detailed in these specifications and indicated on the plans. Unacceptable plants shall be culled at the nursery prior to being packed. No substitutions for any materials shall be made unless agreed to in writing by the City. With the approval of the City, plants larger in size than specified may be utilized, but such plants shall not increase the contract price. Larger plants shall not be cut back to meet size specifications. Plants shall have a form and architecture that is easily planted for the stock specified.

4.6. The Contractor shall install the trees and shrubs as shown in the Planting Tables on Sheets 76 to 86.

4.7. CONTAINER TREE AND SHRUB SPECIFICATIONS:

4.7.1. Plants shall be established and well rooted in removable containers.

4.7.2. Container class size shall conform to ANSI Z60.1 for container plants for each size and type of plant.

4.8. BARE ROOT SPECIFICATIONS:

4.8.1. Harvest bare root plants while the plant is dormant and a minimum of 4 weeks prior to leaf out (bud break).

4.8.2. The root dimensions of the harvested plants shall conform to ANSI Z60.1 for nursery grown bare root plants for each size and type of plant.

4.8.3. Bare root trees and shrubs shall meet the minimum height requirements and shall be at least 2–year aged seedlings. Documentation from supplier must include height and age when requesting approvals from the City.

4.8.4. Keep the plants in a cool dark space for storage and delivery. If daytime outside temperatures exceed 70 degrees F, utilize a refrigerated storage area with temperature between 35 and 60 degrees.

5. NOMENCLATURE (FOR ALL PLANTS)

5.1. A Synonymized Checklist of the Vascular Flora of the United States, Canada and Greenland: Volume II; The Biota of North America (Kartesz and Kartesz, University of North Carolina Press, 1980, or later edition) shall be the authority for plant names. The Contractor shall supply certification from the suppliers that the plants supplied are the plants specified or agreed to under substitution. No compensation shall be made for materials or the cost of installation for plants species that are not specified.

6. INSPECTION

6.1. The Contractor shall be responsible for all certificates of inspection of plant materials that may be required by federal, state, or other authorities to accompany shipments of plants.

7. SCHEDULE

7.1. Plant deciduous, woody plants within the planting window shown on the plans whenever the temperature is between 32 degrees F and 65 degrees F and the soil is in a workable condition, unless otherwise approved in writing. Planting shall be after the permanent seed mix has been installed throughout the preservation area.

7.2. Except for container–grown material, the time limitation from digging to installing plant material shall be a maximum 21 days.

8. DELIVERY, STORAGE, AND HANDLING

8.1. No material is to be delivered until Landscaper and City are in agreement that the particular zone is ready for planting.

8.2. All plants shall be packed, transported, and handled with utmost care to ensure adequate protection against injury or damage to the root ball and desiccation. Plants must be protected from excessive vibrations. Plants shall not be thrown or bounded off a truck or loader to the ground. Plants shall not be dragged, lifted, or pulled by the trunk or braces in a manner that will damage the branches or loosen the roots in the ball.

8.3. Plant materials transported in vehicles shall be protected from wind whipping either by use of covered vehicles or secure tarps. Failure to protect plant materials during transport to the site will result in rejection of plant materials.

8.4. Plants will be delivered as close as possible to the date planting will actually begin.

8.5. Upon shipment arrival, plants will be unpacked and roots will be checked to ensure they are moist. Roots will be watered if they appear dry.

9. PRE–INSTALLATION INSPECTION

9.1. The Contractor shall meet with the City during delivery of plant materials at the project site. Each item shall be labeled with the product name (genus, species, variety, and cultivar), material size, and vendor. The Contractor shall provide the City with copies of all shipping manifests for the materials. The City shall verify the materials delivered are in a healthy and vigorous condition, and are consistent with the plan requirements in regards to quantity, species, and size.

9.2. The City shall be the sole judge of the conditions of quality and acceptability and will direct all corrections to the Contractor in writing. All rejected materials shall be immediately removed from the site and replaced with specified materials at the Contractor's expense.

10. INSTALLATION GENERAL

10.1. The Contractor shall not proceed with installation without written direction from the City if the actual time of installation does not comply with the installation periods listed in the Planting Table.

10.2. The Contractor shall mark all planting areas with stakes. The City shall approve the layout before planting begins.

10.3. Prior permission from the City is required for planting trees and shrubs if the majority of the planting area is excessively wet (areas >0.5–inch inundation) or exceedingly dry.

10.4. If an area is planted in a monoculture or an inappropriate mix, as solely determined by the City, at the direction of the City, the planting or a segment of the planting shall be removed and the plants discarded. The area will then be replanted as specified. No compensation for the discarded plants, the cost of the installation of the discarded plants, or the cost of the removal of the discarded plants shall be made to the Contractor.

10.5. The Contractor shall ensure all utilities within the planting area are located and marked prior to plant installation.

10.6. Observe each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant. Notify the City of any condition observed.

10.7. No more plants shall be distributed about the planting area than can be planted and watered on the same day.

10.8. ROOT SYSTEM

10.8.1. The root system of each plant, regardless of root ball package type, shall be observed by the Contractor, at the time of planting to confirm that the roots meet the requirements for plant root quality. The Contractor shall undertake, at the time of planting, all modifications to the root system required by the City to meet these quality standards.

10.8.2. Modifications, at the time of planting, to meet the specifications for the depth of the root collar and removal of stem girdling roots and circling roots may make the plant unstable or stress the plant to the point that the City may choose to reject the plant rather than permitting the modification.

10.8.3. Any modifications required by the City to make the root system conform to the plant quality standards, outlined in Special Planting Requirements (Sheet 89), shall not be considered as grounds to modify or void the plant warranty.

10.8.4. The resulting root ball may need additional staking and water after planting. The City may reject the plant if the root modification process makes the tree unstable or if the tree is not healthy at the end of the warranty period. Such plants shall still be covered under the warranty.

10.8.5. The Contractor remains responsible to confirm that the grower has made all required root modifications noted during any nursery observations.

10.8.6. Container and boxed root ball shaving: The outer surfaces of all plants in containers and boxes, including the top, sides and bottom of the root ball shall be shaved to remove all circling, descending, and matted roots. Shaving shall be performed using saws, knives, sharp shovels or other suitable equipment that is capable of making clean cuts on the roots. Shaving shall remove a minimum of one –inch of root mat or up to 2–inches as required to remove all root segments that are not growing reasonably radial to the trunk.

10.8.7. Exposed stem tissue after modification: The required root ball modifications may result in stem tissue that has not formed trunk bark being exposed above the soil line. If such condition occurs, wrap the exposed portion of the stem in a protective wrapping with a white filter fabric. Secure the fabric with biodegradable masking tape. Do not use string, twine, green nursery ties or any other material that may girdle the trunk if not removed.

10.9. EXCAVATION

10.9.1. Excavation of the planting space: Using hand tools or tracked mini–excavator, excavate the planting hole into the planting soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the drawing or as noted below.

10.9.2. For trees and shrubs planted in soil areas that are not tilled or otherwise modified to a depth of at least 12–inches over a distance of more than 10 feet radius from each tree, or 5 feet radius from each shrub, the soil around the root ball shall be loosened as defined below or as indicated on the drawings.

10.9.2.1. The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter of the root ball at the depth of the root ball.

10.9.2.2. Loosening is defined as digging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dug, lifted and turned. Lifting and turning may be accomplished with a tracked mini excavator, or hand shovels.

10.9.2.3. If an auger is used to dig the initial planting hole, the soil around the auger hole shall be loosened as defined above for trees and shrubs planted in soil areas that are not tilled or otherwise modified.

10.9.3. The measuring point for root ball depth shall be the average height of the outer edge of the root ball after any required root ball modification.

10.9.4. If motorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to loosen the soil or dig the planting holes, all soil that has been driven over shall be tilled to a depth of 6–inches.

10.9.5. For trees to be planted in prepared planting soil that is deeper than the root ball depth, compact the soil under the root ball using a mechanical tamper to assure a firm bedding for the root ball. If there is more than 12–inches of planting soil under the root ball excavate and tamp the planting soil in lifts not to exceed 12–inches.

10.10. Set top outer edge of the root ball at the average elevation of the proposed finish. Set the plant plumb and upright in the center of the planting hole. The tree graft, if applicable, shall be visible above the grade. Do not place soil on top of the root ball.

10.11. The City may request that plant orientation be rotated when planted based on the form of the plant.

10.12. Backfill the space around the root ball with the same planting soil or existing soil that was excavated for the planting space.

10.13. Brace root ball by tamping planting soil around the lower portion of the root ball. Place additional planting soil around base and sides of ball in six–inch (6") lifts. Lightly tamp each lift using light foot pressure or hand tools to settle backfill, support the tree and eliminate voids. Do not over compact the backfill or use mechanical or pneumatic tamping equipment. Over compaction shall be defined as greater than 85% of maximum dry density, standard proctor or greater than 250 psi as measured by a cone penetrometer when the volumetric soil moisture is lower than field capacity.

10.13.1. When the planting hole has been backfilled to three quarters of its depth, water shall be poured around the root ball and allowed to soak into the soil to settle the soil. Do not flood the planting space. If the soil is above field capacity, allow the soil to drain to below field capacity before finishing the planting. Air pockets shall be eliminated and backfill continued until the planting soil is brought to grade level.

10.14. Thoroughly water the planting soil and root ball immediately after planting.

10.15. Remove all nursery plant identification tags and ribbons as per City's instructions.

10.16. Remove corrugated cardboard trunk protection after planting.

10.17. Follow additional requirements for the permitted root ball packages.

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REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
PLANTING NOTES

EMHT
Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
88/97

SPECIAL PLANTING REQUIREMENTS

11. CONTAINER PLANTS

(Includes boxed and above–ground fabric containers)

11.1. This specification assumes that most container plants have significant stem girdling and circling roots, and that the root collar is too low in the root ball.

11.2. Containered plants shall be carefully removed from the containers prior to installation. Plants shall not be pulled from the container by the trunk. Any plant materials observed to be removed from containers by the trunk may be rejected by the City.

11.3. Perform root ball shaving as defined above.

11.4. Remove all roots and substrate above the root collar and the main structural roots.

11.5. Remove all substrate at the bottom of the root ball that does not contain roots.

11.6. Using a hose, power washer or air excavation device, wash out the substrate from around the trunk and top of the remaining root ball and find and remove all stem girdling roots within the root ball above the top of the structural roots.

11.7. The excavated hole for #5 and #15 containers shall be a diameter that is at least 6–inches larger than the diameter of the container.

12. BARE ROOT PLANTS

12.1. INSTALLATION

12.1.1. Before seedlings are taken to the planting site, the roots will be dampened. The seedlings will then be repacked in boxes and roots covered with moist packing material and enclosed in a plastic bag.

12.1.2. At the planting site, the unplanted seedlings will be kept moist, out of sunlight, and protected from wind.

12.1.3. Root pruning is prohibited for all seedlings with stems longer than 18–inches.

12.1.4. Root pruning is permissible for seedlings with stems shorter less than 18–inches. The total root length after pruning must exceed 8–inches when measured from the root collar. Roots will be pruned at an angle with only a sharp knife, hatchet, or clippers. Bare root seedlings with roots less than 8–inches in length may not be pruned.

12.1.5. The roots of all bare root trees and shrubs shall be dipped into a mycorrhizal fungi solution immediately prior to installation. Use 'PHC Root Dip' or equivalent material. Landscaper to provide photo documentation of this process during installation.

12.1.6. If trees are hand planted, the planter may only carry as many seedlings in hand that can be planted within three minutes. All remaining seedlings will be carried with the planter in a planting bag or dipped in water gel and carried in a bucket. Seedlings must not be carried in a bucket of water or have roots submerged at any time.

12.1.7. Dig the planting hole to the diameter of the spread of the roots to a depth in the center that maintains the root collar at or slightly above the elevation of the surrounding finished grade. The hole should be large enough to accommodate the entire root system. Spread all roots out radial to the trunk in the prepared hole making the hole wider where needed to accommodate long roots. Root tips shall be directed away from the trunk. Prune any broken roots removing the least amount of tissue possible. The roots need to be straight within the hole, not twisted or bent (J–rooted).

12.1.8. Maintain the trunk plumb while backfilling soil around the roots.

12.1.9. Lightly tamp the soil around the roots to eliminate voids and reduce settlement.

12.1.10. The soil should be firmly packed around the seedling to avoid air pockets, which can cause the roots to dry out causing seedling death. If there is any vertical movement after planting when the stem is gently pulled upwards, the seedling will be identified as a failed planting. The planting hole will subsequently be repacked until no movement is observed while maintaining the proper root collar position relative to the soil surface.

13. ACCEPTANCE

13.1. Upon written notice from the Contractor, the City shall review the planting work and make a determination if the planting work is substantially complete. Acceptance of the plant installation by the City shall be based on proper site preparation and installation, and satisfactory completion of required watering, if any. Acceptance of the work by the City shall not relieve the Contractor from any obligations of the contract. If planting occurs during the fall or winter months, the City may request seedlings be replanted if the spring walkover performed by the City identifies excessive planting failure as the result of frost heaving.

13.2. If material specified in Zone 2 and Zone 3 is installed in the fall, Landscaper will be required to inspect the corridor during the first February post–installation and reset any planted material that has been affected by frost heaving or wind.

14. DAMAGED AREAS

14.1. All areas where the installed plants have been disturbed or destroyed by the Contractor's negligent actions or inactions, as solely determined by the City, shall be replanted in accordance with these specifications by the Contractor at his own expense. Replanting shall occur at the next available planting window and shall not be delayed until the end of the warranty period.

PLANTING LIVE STAKES

15. SUBMITTALS

15.1. Prior to the start of work on this item, the Contractor shall submit the nursery order and bill of lading from the nursery to the City for review and approval.

15.1.1. The Contractor shall submit the following items to the City for review at least 30 calendar days prior to the planned date of installation: product sheet indicating quantities, size, and species of live stakes proposed for installation and source (vendor) of the material.

16. MATERIALS

16.1. Native live stake species shall be in accordance with the Planting Tables on Sheets 76 to 86. Final species selection shall be approved by the City in writing prior to purchasing the materials.

16.2. Live stakes are dormant cuttings taken in late winter or early spring before buds have opened. Live stakes shall be of the specified diameter and length, with visible buds.

16.3. Stakes shall be ½ to 2–inches in diameter, 2 feet in length, and living based on the presence of young buds and/or green bark. Prior to installation, the stakes shall be cut so that they are angled on the bottom and flush on the top.

16.4. Live stake material shall be dormant and gathered locally (within or in proximity to the project site) or purchased from a reputable commercial supplier. The Contractor may contact Ernst Conservation Seeds at 814–336–2404 or 800–873–3321 (fax: 814–336–5191) as a supplier of live stake material or approved equal. This material shall be planted only during its natural dormancy period as shown in the Planting Tables on Sheets 76 to 86.

16.5. All harvested or purchased live stake material shall be preserved in a cool, moist environment until installation. Stakes must not be allowed to dry out. They must either be packed in moist sawdust or placed angled end down within a bucket/tub of water, wetland or pond edge. If storing in a wetland or pond edge, live stakes must be secured so they do not fall over or float away. Plant material that has been allowed to dry out or is not preserved in a dormant state prior to installation shall be discarded and replaced.

17. INSTALLATION

17.1. The Contractor shall install live stakes according to the Planting Tables (Sheets 76 to 86) and Live Stake Detail (Sheet 87).

17.2. Stakes shall not be installed in frozen ground.

17.3. Contractor is advised that pilot holes are required in most installations. To install the live stakes, use a drill, rebar, or landscaping pin to create a pilot hole. Install the live stake on an angle to the channel bank between 30 and 60 degrees, as shown on the plan details, to assist in the installation. Vertical installation is not acceptable and will be rejected. At least three–fourths of the live stake length shall be buried with at least two leaf buds exposed above the ground. Live stakes that become bent or broken during installation shall be discarded and replaced.

17.4. Remove all nursery plant identification tags and ribbons as per City's instructions.

18. ACCEPTANCE

18.1. Upon written notice from the Contractor, the City shall review the live staking planting work and make a determination if the planting work is substantially complete. Acceptance of the plant installation by the City shall be based on proper site preparation and installation, and satisfactory completion of required watering, if any. Acceptance of the work by the City shall not relieve the Contractor from any obligations of the contract.

19. DAMAGED AREAS

19.1. All areas where the installed live stakes have been disturbed or destroyed by the Contractor's negligent actions or inactions, as solely determined by the City, the live stakes shall be replanted with new materials in accordance with these specifications by the Contractor at his/her own expense. Replanting shall occur at the next available planting window and shall not be delayed until the end of the warranty period.

WARRANTY PERIOD

20. The Contractor shall be held to the warranty percent survival rate for each plant material type according to the Planting Table on Sheets Sheets 76 to 86 and for the seed as specified below.

21. The warranty period for the seeding and planting work shall extend for a minimum of one calendar year and include at least one full continuous growing season consisting of the full months of June through October, inclusive.

22. Following installation and throughout the warranty period, the Contractor shall actively maintain the installed planting work. This work includes removing debris accumulated in the planting area, resetting trees and shrubs to upright positions, reseeding bare soil areas, removing and replacing dead trees and shrubs, watering, and controlling invasive species and weeds during establishment period.

23. The Contractor shall perform maintenance visits to the project site at the following time intervals. Additional maintenance visits may be performed at the Contractor's discretion and expense.

23.1. 30 days following written acceptance of all planting work

23.2. 3 months following the previous maintenance visit.

24. The warranty inspection will be conducted at least 12 months from the date of installation between April 1 and November 15. Landscaper will meet with the City in the field and review the project areas to determine both adequate grass cover and vegetation survival in accordance with this plan. All dead material, regardless of cause, will be subject to the warranty replacement in accordance with the survivability rates on Sheets 76 to 86. All missing material, regardless of cause (including but not limited to beavers, deer, flooding), shall be considered dead. Any material that is missing 50% or more of its original living branches present during installation (stunted branches, frost damage, leaf loss, etc.) shall be considered dead and will be subject to replacement.

25. The determination of planted material survivability shall occur within a portion of each planting area shown on this plan, agreed upon between the City and the Landscaper. The determined areas shall comprise no less than 30% of the individual planting areas. the determination of adequate grass cover shall apply to the entire project area,

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
PLANTING NOTES

EMHT
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

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
89/97

J:\2022\0903\Dwg\04Sheets\PlnsXref_Planting_Notes.dwg, Last Saved By: jbosiervillo, 3/4/2025 12:22 PM, Last Plotted By: Bosiervillo, Jason, 6/16/2025 4:45 PM, (No Xrefs)

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN

GENERAL

Traffic control shall be furnished, erected, maintained, and removed by the Contractor according to Ohio Manual of Uniform Traffic Control Devices (OMUTCD), current edition.

The roadway shall not be opened to traffic until permanent traffic controls are in place, or until temporary traffic controls, approved by the Engineer, are installed. The Contractor assumes all liability for the premature removal of temporary traffic controls.

The Contractor shall be responsible for the reinstallation and/or replacement of all permanent traffic control devices damaged or removed during the construction. Permanent traffic control that is no longer in conflict with temporary traffic control shall be replaced immediately. The Contractor shall assume all liability for missing, damaged and improperly placed traffic control devices.

The Contractor shall provide a 24 hour contact who will be responsible for maintenance of traffic for the duration of the project.

Construction operations shall not begin until all temporary traffic control devices are in place and approved by the Engineer and the City.

Maintenance of all traffic control devices including drums, signs, barricades, sign boards, detour signage, etc., shall be the Contractor's responsibility.

All trenches shall be backfilled or securely plated during all nighttime and non–working hours.

The drop off policies outlined in ODOT's Standard Construction Drawing MT–101.90 shall be applied to all phases of work outlined herein, irrespective of speed limit. A foreslope of 3:1 or flatter should be implemented during non–working and nighttime hours as needed to conform with MT–101.90.

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.

CONSTRUCTION INITIATION

The Contractor will notify the City of Dublin 14 days prior to the start of construction activities. The Contractor will immediately inform the City of Dublin of any and all delays and/or changes regarding the construction project. The City Engineer will provide clarification for any questions about the notification requirement.

The Contractor shall submit a closure schedule to the City of Dublin for approval prior to initiating any closure.

ALTERNATE METHODS

The Contractor may submit alternative methods for the maintenance of traffic provided the intent of the above provisions is followed and no additional inconvenience to the traveling public results from the change.

No alternative plan shall be placed in effect until approval has been received from the City of Dublin. There shall be no additional compensation for alternate methods.

LOCAL ACCESS

Ingress and egress shall be maintained to all residential and commercial properties. Driveway closure may be necessary to enable work on or in front of a drive. The Contractor will be responsible for notifying owners, residents, or business operators in writing at least 48 hours but not more than 72 hours prior to closure. The Engineer shall be given a list of the persons that were given notices with the date of notice included. Closure is permitted only during work hours and access must be returned at the end of each working day. Properties with multiple drives may have one drive closed at a time, while work is performed in the area of the closed drive.

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.

Individual drive closures shall be kept to the minimum time needed for construction activities. Every effort must be made to accommodate the owner's need for access.

PEDESTRIAN ACCESS

The Contractor shall be responsible for the protection and safe movement of pedestrians through, around, and away from the construction site.

The safety of pedestrian traffic shall be considered at all times in the provision of traffic control devices required by these plans and notes. It shall be the Contractor's responsibility to provide lights, signs, barricades, and other warnings to physically separate the pedestrian from hazards incidental to the construction operations such as open excavations, etc. At all times, the pedestrian MOT shall be subject to the approval of the Engineer.

If the Contractor desires to deviate from the proposed maintenance of pedestrian traffic plan, the Contractor shall submit in writing (a minimum of 14 days prior to construction) a plan to maintain pedestrian traffic for the duration of the project to the City and the Engineer for approval.

Any costs associated with maintaining pedestrian traffic shall be incidental to Item 614, Maintaining Traffic, As Per Plan.

COVERING SIGNS

The Contractor shall cover all existing signs that conflict with maintenance of traffic signs. Covering of signs shall be in accordance with 614.16. Costs for covering signs shall be included in Item 614 – Maintaining Traffic, As Per Plan.

EXISTING TRAFFIC SIGN MAINTENANCE

Special care shall be taken to maintain existing street name signs and stop signs. If necessary, the Contractor shall relocate these signs out of the way of construction, but in conformance with OMUTCD and the City of Dublin Standard Construction Drawings.

SIGNS, BARRICADES, AND VERTICAL PANELS

All construction signs, barricades, vertical panels, and drums shall conform to OMUTCD and the latest revision of the ODOT construction and material specifications.

All construction signage shall be installed and covered before construction begins. After construction sign installation, the Contractor shall notify the Engineer three working days before work begins and request an inspection of all signage.

Faces of construction signs and reflective sheeting on barricades shall be type "H" VIP. All orange construction signs shall be fluorescent orange. All sheeting will be tested for reflectivity per ODOT 730.192. Vertical panels and drum bands shall be reflectorized with type "G" (High Intensity) sheeting complying with the requirements of 730.19. All signs and barricades, vertical panels, and drums will be like new and in good condition in conformance with "Quality Guidelines For Temporary Traffic Control Devices And Features" published by ATSSA.

Maintenance of all Contractor supplied signs, barricades, vertical panels, and drums is the Contractor's responsibility. If the Contractor fails to correct deficiencies within four hours of notification, the City will correct or hire someone to correct the deficiencies. The Contractor will then be back charged per ODOT specification 614.14. In the case that back charging the Contractor is not applicable, the City will rescind and withhold all permits issued to the Contractor to work within City right–of–way until the issue is settled.

These provisions shall not in any way relieve the Contractor of any of his legal responsibilities or liabilities for the safety of the public.

Steady_burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night.

All advance signing shall be equipped with type "A" flashing lights and (2) orange flags (24"x24"). Lights are not required on signs in place during daylight hours.

Cones are not approved for use at night.

Drums shall be placed as follows: 40' c/c on tangents, 20' c/c on tapers, and 8' c/c in radii.

All signs shown on the "Maintenance of Traffic" sheets must be removed promptly after work is complete in the area.

LANE CLOSURE/REDUCTION REQUIRED

Length and duration of lane closures and restrictions shall be at the approval of the Engineer. It is the intent to minimize the impact to the traveling public. Lane closures or restrictions over segments of the project in which no work is anticipated within a reasonable time frame, as determined by the Engineer, shall not be permitted. The level of utilization of maintenance of traffic devices shall be commensurate with the work in progress.

MUD, DIRT AND DEBRIS

The tracking or spillage of mud, dirt or debris upon state highways is prohibited and any such occurrence shall be cleaned up immediately by the contractor.

PAYMENT

Payment for all maintenance of traffic items, including the furnishing, installation and maintenance of, but not limited to: flashing arrows panels, signs, sign supports, flags, flaggers, barricades, barrier, barrier reflectors, notice of closure signs, drums, cones, construction fencing, temporary pavement markings, traffic compacted surface, materials and labor for maintaining access to driveways, property owner notification/coordination and development of the operations schedule shall be at the lump sum price bid for Item 614 Maintaining Traffic, As Per Plan, which shall include all labor, material, equipment, and incidentals to complete the work as detailed in the plans. Unless separately itemized in the plans, no separate payment shall be made.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN

Use of Law Enforcement Officers (LEOs) by Contractors other than the uses specified in this note will not be permitted at project cost unless prior approval has been obtained from the Engineer. LEOs should not be used where the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) intends for flaggers be used.

In addition to the requirements of CMS 614 and the OMUTCD, a uniformed LEO with an official patrol car (car with top–mounted emergency flashing lights and complete markings of the appropriate Law Enforcement Agency) should be provided for controlling traffic for the following tasks:

For lane closures: During initial set–up periods, tear down periods, substantial shifts of a closure point or when new lane closure arrangements are initiated. In general, LEOs should be positioned at the point of lane restriction or road closure and to manually control traffic movements through intersections in work zones.

During the entire advance preparation and closure sequence where blockage of traffic is required.

LEOs work at the direction of the Contractor. The Contractor is responsible for securing the services of the LEOs and communicating the intentions of the plans with respect to duties of the LEOs. The Engineer shall have final control over the LEOs' duties and placement and will resolve any issues that may arise between the two parties. The Contractor shall utilize any of the following Law Enforcement Agency(s): City of Dublin, Franklin County Sherrif's Office, or the Ohio State Highway Patrol.

Law Enforcement Officers with patrol car required by the traffic maintenance tasks above shall be paid for on a unit price (hourly) basis under Item 614, Law Enforcement Officer with Patrol Car, As Per Plan.

The hours paid shall include minimum show–up time required by the law enforcement agency involved. Any additional costs (administrative or otherwise) incurred by the Contractor to obtain the services of an LEO are included with the bid unit price for Item 614, Law Enforcement Officer with Patrol Car, As Per Plan.

SEQUENCE OF CONSTRUCTION

Site 3

Site 3 Phase 1 shall install the proposed construction access on Red Bay Court. Two–way, one–lane traffic shall be maintained during working hours on Red Bay Court via flagger control, as detailed within. All existing lanes on Red Bay Court shall be fully open to traffic during peak hours (7–9 AM, 4–6 PM), and during non–working hours.

Site 3 Phase 2 shall install signage along Red Bay Court, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

Site 18

Site 18 Phase 1 shall install the proposed construction access on Darree Fields Driveway. Two–way, one–lane traffic shall be maintained during working hours on Darree Fields Drveway via flagger control, as detailed within. All existing lanes on Darree Fields Driveway shall be fully open to traffic during peak hours (7–9 AM, 4–6 PM), and during non–working hours.

Site 18 Phase 2 shall install signage along Darree Fields Driveway, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

Site 22

Site 22 Phase 1 shall install signage along Avery–Muirfield Drive, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

Site 24

Site 24 Phase 1 shall install signage along the Park Access Roadway, the pedestrian trail, and the construction access, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

After the proposed channel improvements are completed, the pedestrian trail shall be restored. This work shall be completed under closure of the trail.

Site 25, 27, & 28

Site 25, 27, & 28 Phase 1 shall install the proposed access on Lanham Court. Two–way traffic shall be maintained at all times with driveway access maintained.

Site 25, 27, & 28 Phase 2 shall install signage along Lanham Court, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

After the proposed channel improvements are completed, the sidewalk shall be restored. This work shall be completed under closure of the sidewalk.

Site 44A

Site 44A Phase 1 shall install the proposed construction access on Lombard Way. Two–way, one–lane traffic shall be maintained during working hours on Lombard Way via flagger control, as detailed within. All existing lanes on Lombard Way shall be fully open to traffic during peak hours (7–9 AM, 4–6 PM), and during non–working hours.

Site 44A Phase 2 shall install signage along Lombard Way, the sidewalk, the pedestrian trail, and the construction access, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

After the proposed channel improvements are completed, the sidewalk and pedestrian trail shall be restored. This work shall be completed under closure of the sidewalk and trail.

Site 44B&C

Site 44B&C Phase 1 shall install the proposed access on Ringsend Court. Two–way traffic shall be maintained at all times with driveway access maintained.

Site 44B&C Phase 2 shall install signage along Ringsend Court, as detailed within. This signage shall remain in place during the construction of the channel improvements and site restoration.

After the proposed channel improvements are completed, the sidewalk shall be restored. This work shall be completed under closure of the sidewalk.

The cost for performing the maintenance of traffic as described herein shall be included in the price bid for Item 614, Maintaining Traffic, As Per Plan.

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
MAINTENANCE OF TRAFFIC NOTES

EMH&T
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

DATE
JUNE 2025

SCALE
NONE

JOB NO.
2022-0903

SHEET
90/97

Plotted By: Rosenello, Jocelyn 6/16/2025 5:43 PM (No Xrefs)
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SITE 3: PHASE 1

SITE 3: PHASE 2

LEGEND

= WORK ZONE

= DIRECTION OF TRAVEL

= ORANGE DRUM

= TEMPORARY SIGN SUPPORT

= FLAGGER

MARK	DATE	DESCRIPTION

REVISIONS

CITY OF DUBLIN

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PLAN
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MAINTENANCE OF TRAFFIC SITE 3

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DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
91/97

K:\2022\0903\Dwg\04Sheets\Plan\Year 2\Maintenance of Traffic Site 448 & C4bp Last Saved By: mmmaster 6/16/2025 8:59 AM Last Plotted By: Bresciello, Jenna 6/16/2025 3:43 PM (No Xrefs)

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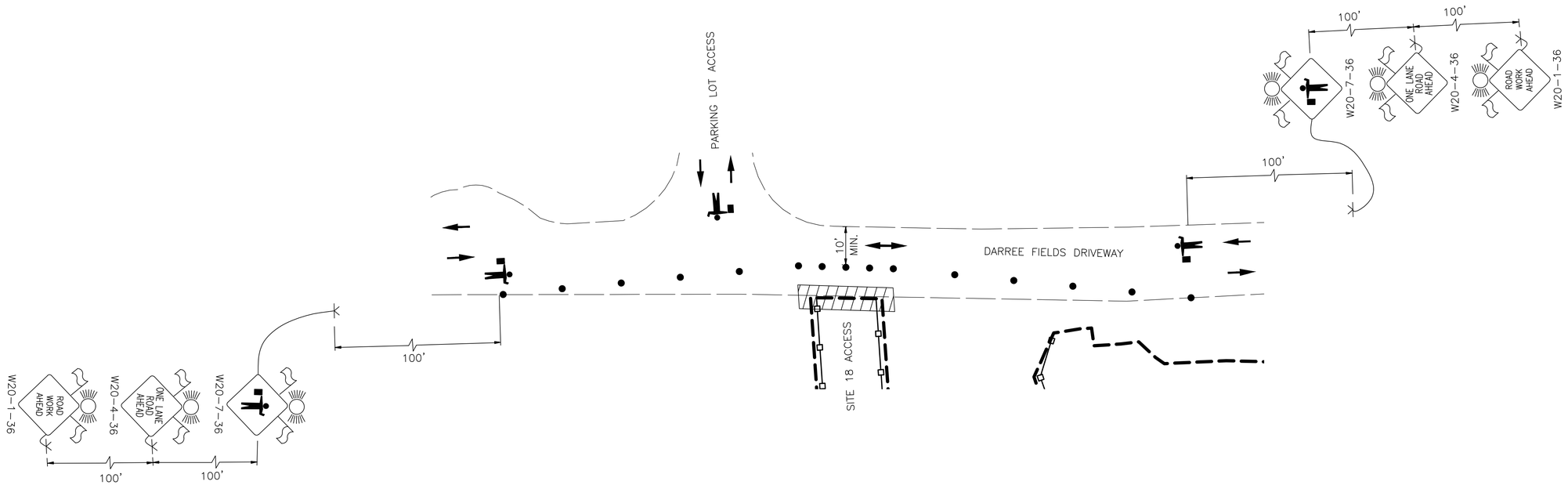
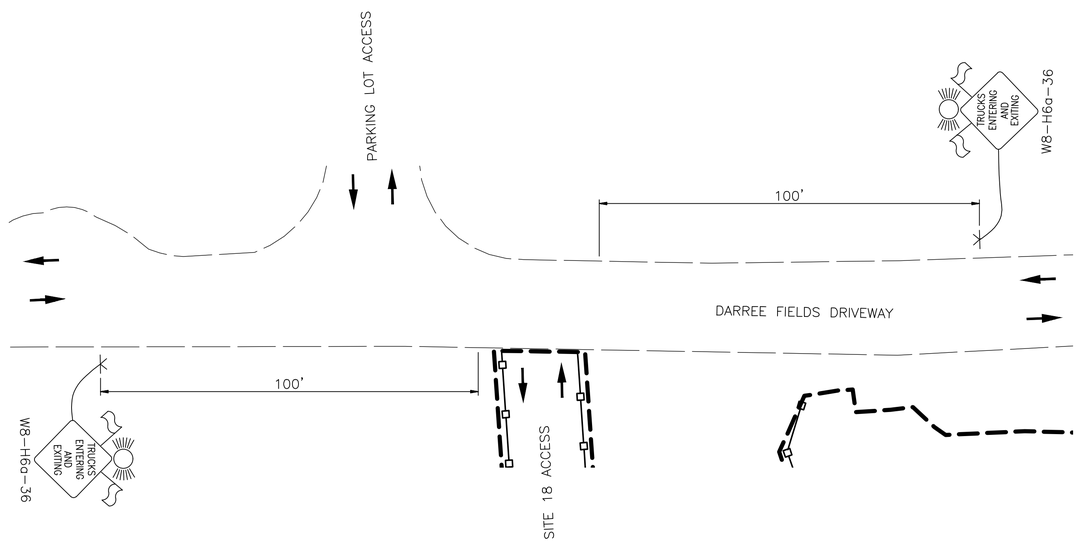
SITE 18: PHASE 1



SITE 18: PHASE 2



LEGEND

= WORK ZONE

= DIRECTION OF TRAVEL

= ORANGE DRUM

= TEMPORARY SIGN SUPPORT

= FLAGGER

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

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PLAN
FOR
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MAINTENANCE OF TRAFFIC SITE 18

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5500 New Albany Road, Columbus, OH 43054
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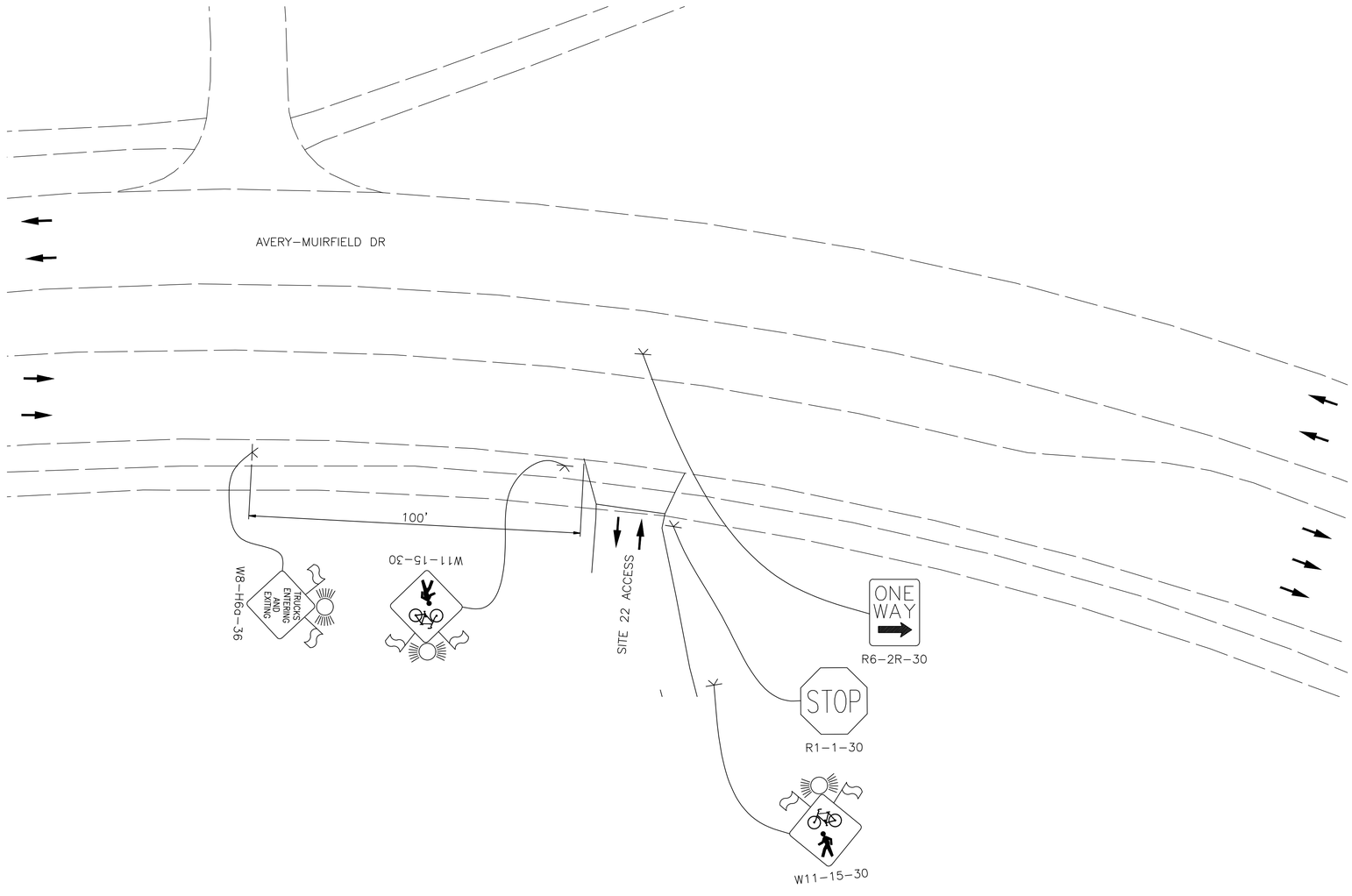
DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
92/97

SITE 22: PHASE 1



LEGEND

→ = DIRECTION OF TRAVEL

⟙ = TEMPORARY SIGN SUPPORT

MARK	DATE	DESCRIPTION

REVISIONS

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
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MAINTENANCE OF TRAFFIC SITE 22

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Phone: 614.775.4500 Toll Free: 888.775.3648
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DATE
JUNE 2025

SCALE
1" = 20'

JOB NO.
2022-0903

SHEET
93/97

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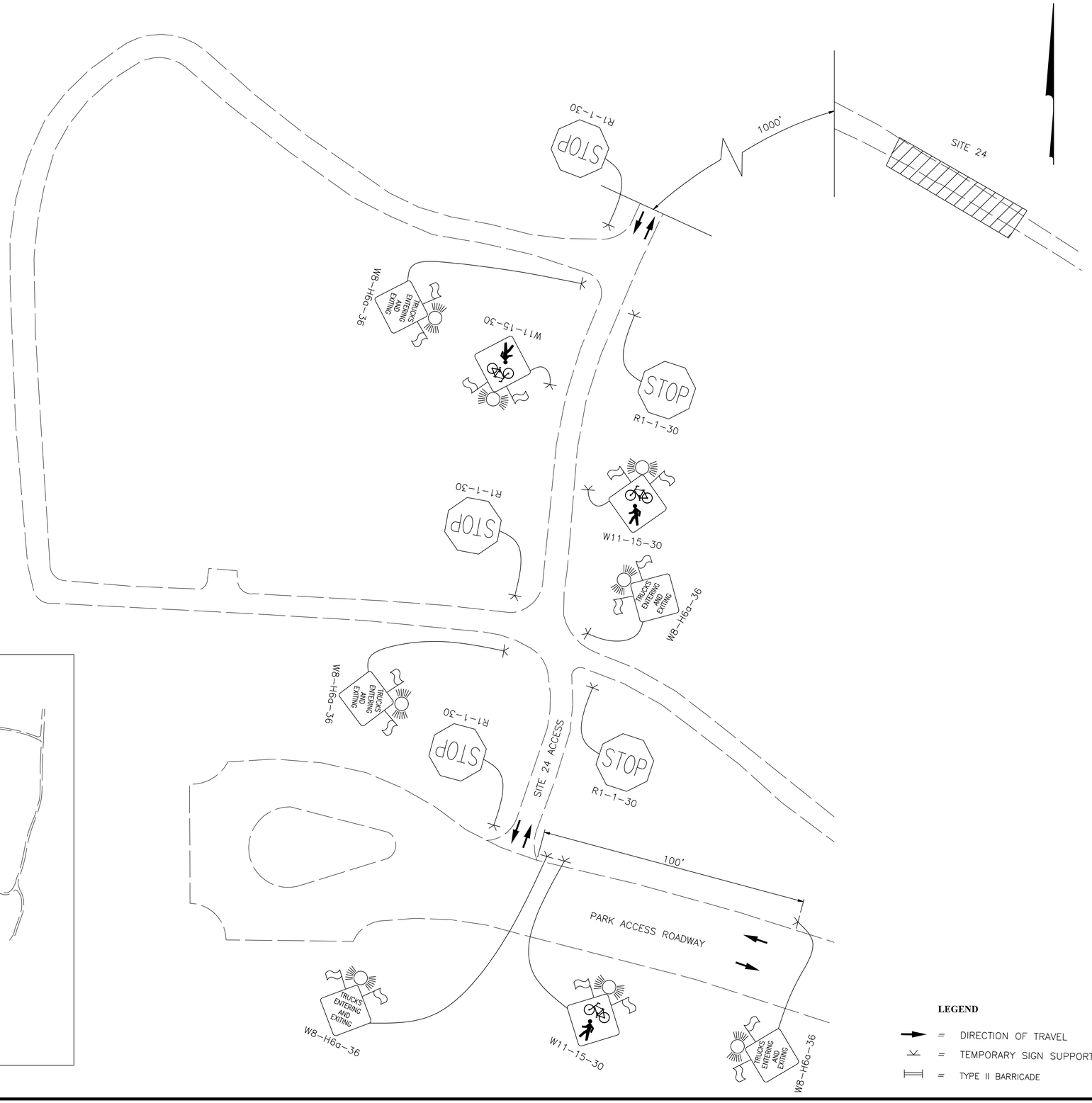
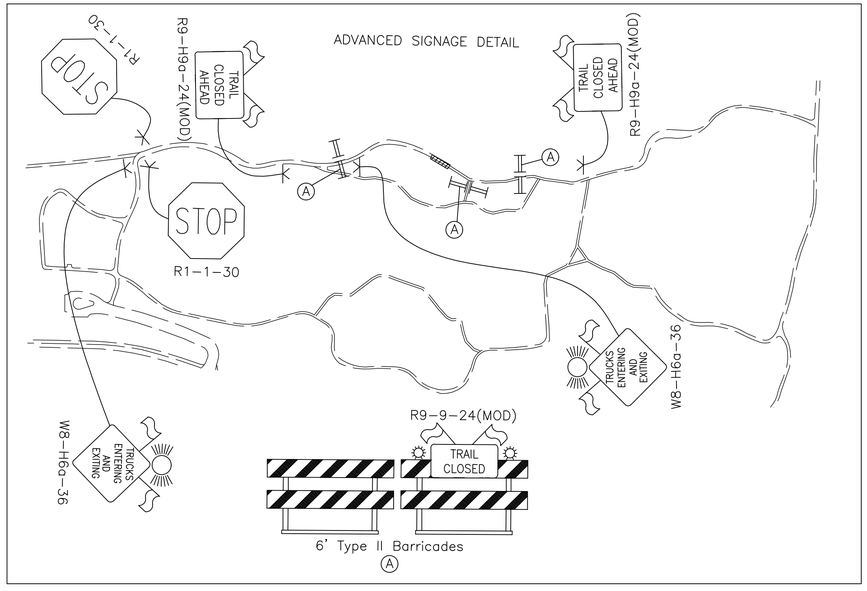
NOTES

1. CONTRACTOR TO KEEP TRAIL CLEAN AND FREE OF DEBRIS/MUD.
2. PAVEMENT WORK ON THE EXISTING TRAIL SHALL BE COMPLETED WITH THE TRAIL CLOSED, USING R9-9-24(MOD) "TRAIL CLOSED" PLACED AT THE LIMITS OF WORK, 1 FOR EACH DIRECTION. R9-H9a-30(MOD) "TRAIL CLOSED AHEAD" SIGNS SHALL BE PLACED ALONG THE TRAIL, 300' IN ADVANCE OF THE CLOSURE, 1 FOR EACH DIRECTION.

SITE 24: PHASE 1





LEGEND

→ = DIRECTION OF TRAVEL

= TEMPORARY SIGN SUPPORT

= TYPE II BARRICADE

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
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MAINTENANCE PROGRAM 2025
MAINTENANCE OF TRAFFIC SITE 24

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DATE
JUNE 2025

SCALE
1" = 80'

JOB NO.
2022-0903

SHEET
94/97

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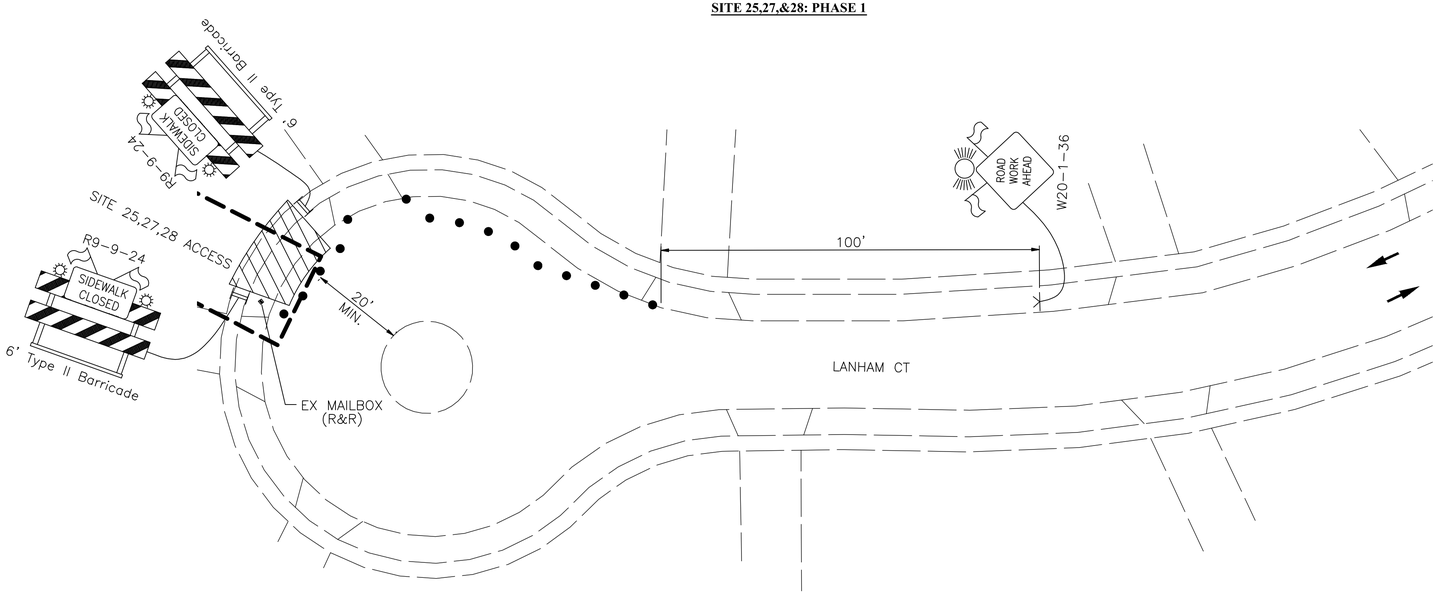
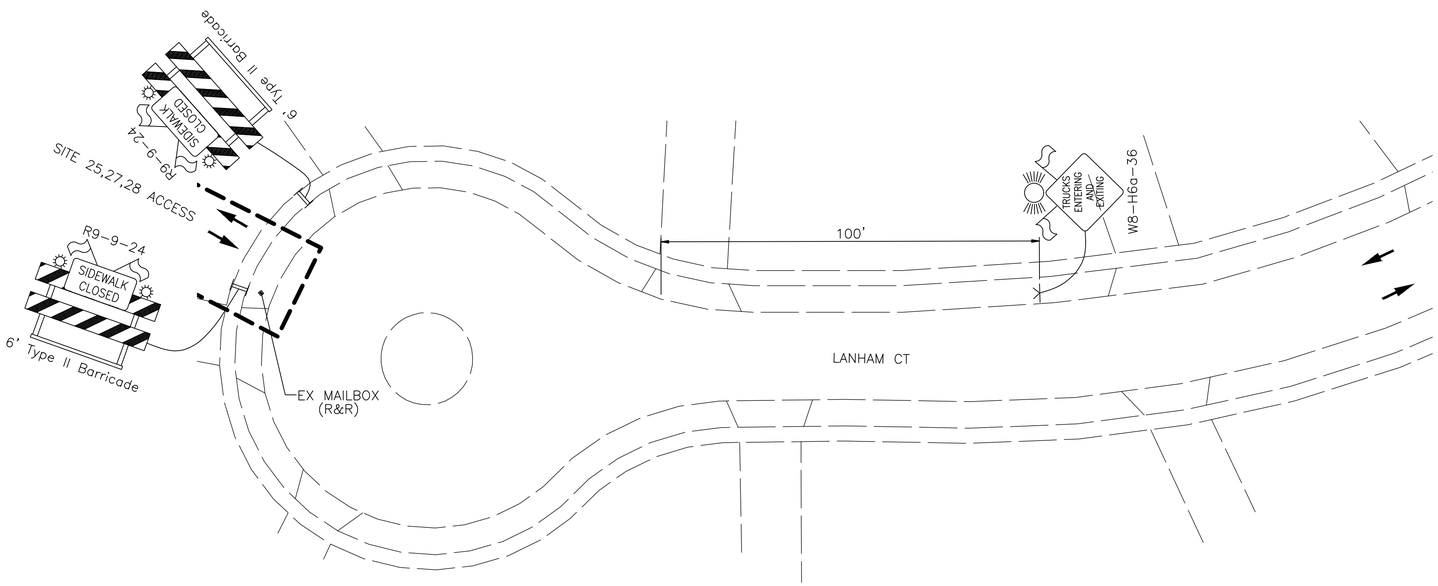
NOTES

1. SIDEWALK RESTORATION WORK SHALL BE COMPLETED UNDER SIDEWALK CLOSURE, AS SHOWN ON THIS SHEET.
2. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

SITE 25,27,&28: PHASE 1



SITE 25,27,&28: PHASE 2



LEGEND

- = WORK ZONE
- = DIRECTION OF TRAVEL
- = ORANGE DRUM
- = TEMPORARY SIGN SUPPORT
- = TYPE II BARRICADE
- = MAILBOX

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
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MAINTENANCE PROGRAM 2025
MAINTENANCE OF TRAFFIC SITE 25,27, & 28

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5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

DATE: JUNE 2025

SCALE: 1" = 20'

JOB NO.: 2022-0903

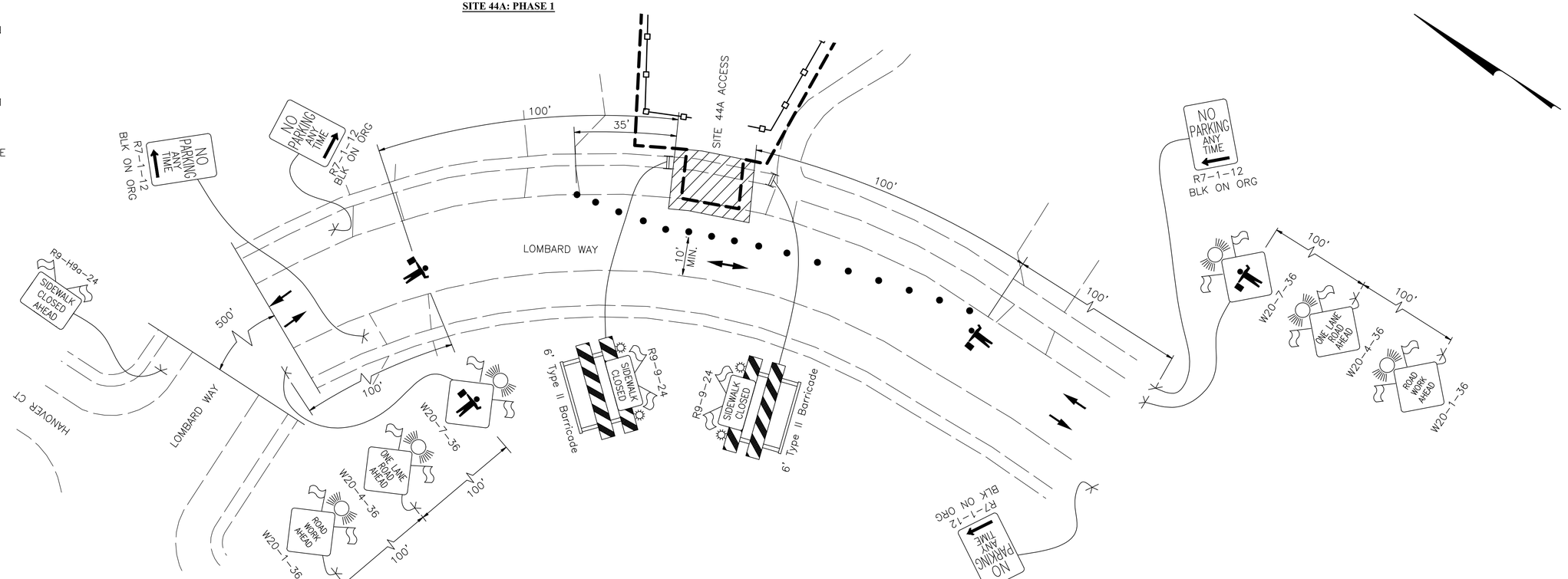
SHEET: 95/97

K:\2022\0903\Dwg\05Sheets\Plan\Year 2\Maintenance of Traffic Site 44B & C.dwg Last Saved By: mmemaster 6/16/2025 8:49 AM Last Printed By: Broscarello dwgVp 6/16/2025 8:45 PM (No Xref's)

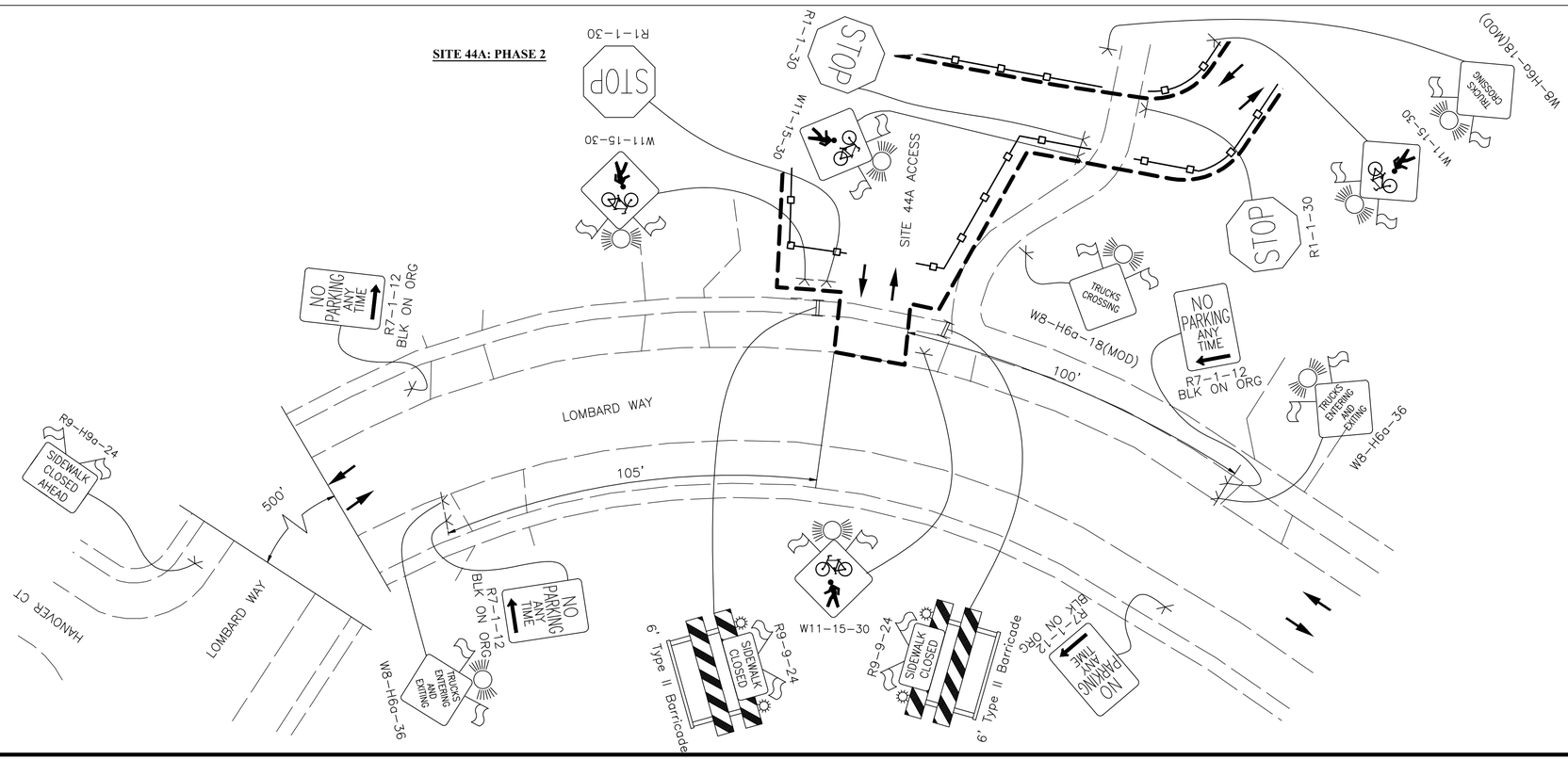
NOTES

1. CONTRACTOR TO KEEP TRAIL CLEAN AND FREE OF DEBRIS/MUD.
2. PAVEMENT WORK ON THE EXISTING TRAIL SHALL BE COMPLETED WITH THE TRAIL CLOSED, USING R9-9-24(MOD) "TRAIL CLOSED" PLACED AT THE LIMITS OF WORK, 1 FOR EACH DIRECTION. R9-H9a-30(MOD) "TRAIL CLOSED AHEAD" SIGNS SHALL BE PLACED ALONG THE TRAIL, 300' IN ADVANCE OF THE CLOSURE, 1 FOR EACH DIRECTION.
3. SIDEWALK RESTORATION WORK SHALL BE COMPLETED UNDER SIDEWALK CLOSURE, AS SHOWN ON THIS SHEET.

SITE 44A: PHASE 1



SITE 44A: PHASE 2



LEGEND

= WORK ZONE
= DIRECTION OF TRAVEL
= ORANGE DRUM
= TEMPORARY SIGN SUPPORT
= FLAGGER
= TYPE II BARRICADE

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS
MAINTENANCE PROGRAM 2025
MAINTENANCE OF TRAFFIC SITE 44A

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DATE: JUNE 2025

SCALE: 1" = 20'

JOB NO.: 2022-0903

SHEET: 96/97

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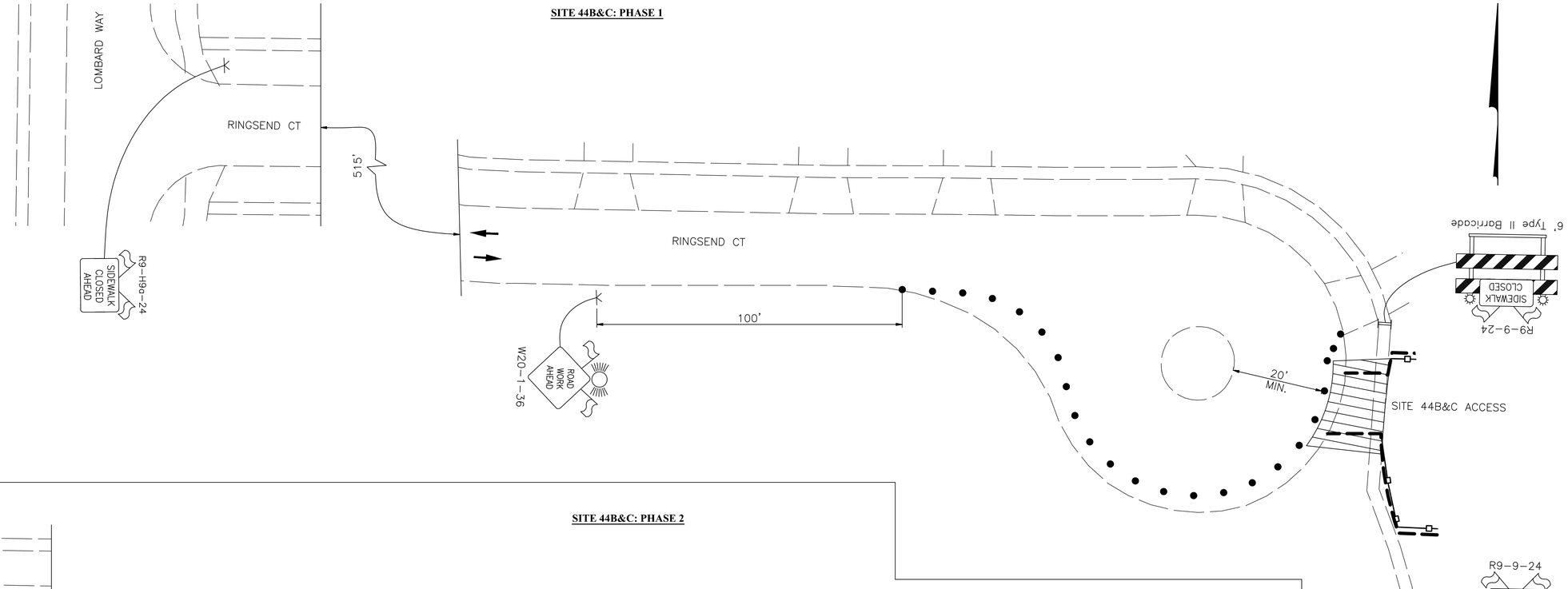
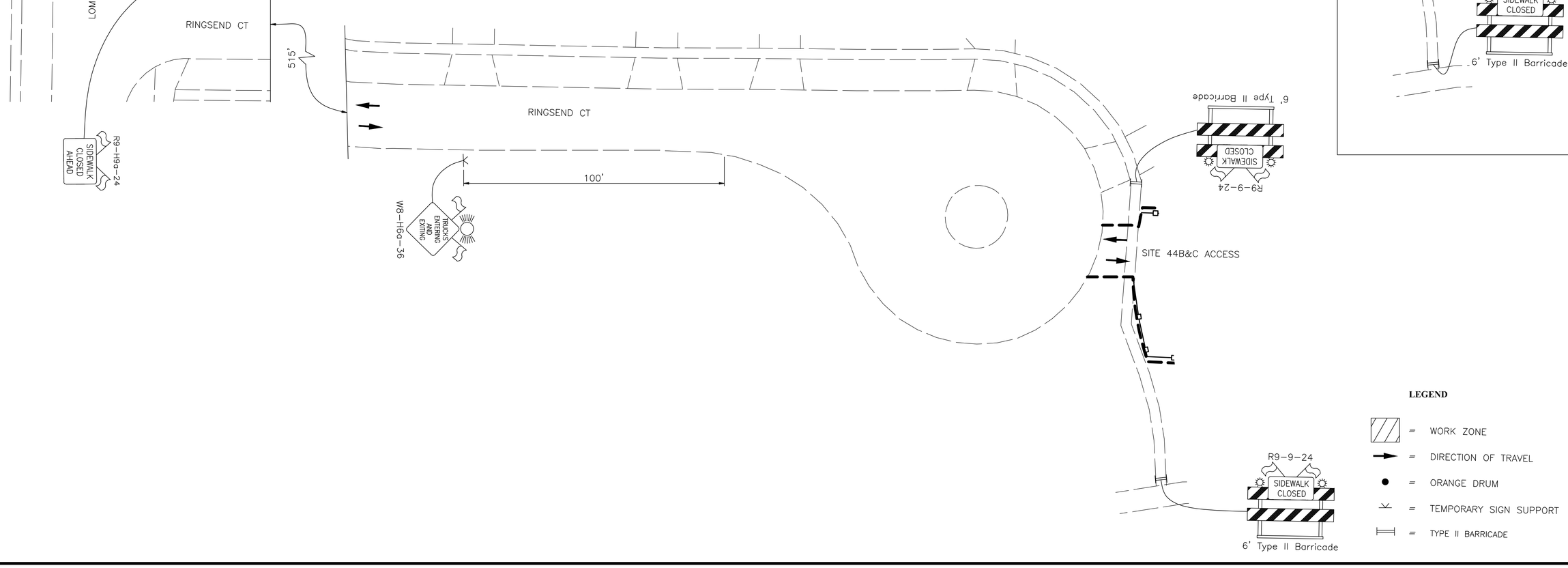
NOTES

1. SIDEWALK RESTORATION WORK SHALL BE COMPLETED UNDER SIDEWALK CLOSURE, AS SHOWN ON THIS SHEET.
2. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

SITE 44B&C: PHASE 1



SITE 44B&C: PHASE 2



LEGEND

- = WORK ZONE
- = DIRECTION OF TRAVEL
- = ORANGE DRUM
- = TEMPORARY SIGN SUPPORT
- = TYPE II BARRICADE

REVISIONS			
MARK	DATE	DESCRIPTION	

CITY OF DUBLIN

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN
FOR
DUBLIN WATERWAYS MAINTENANCE PROGRAM 2025
MAINTENANCE OF TRAFFIC SITE 44B & C

EMHT
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

DATE: JUNE 2025

SCALE: 1" = 20'

JOB NO.: 2022-0903

SHEET: 97/97

6/16/2025 1:43 PM (No Xrefs)
...\2022\0903\Dwg\04Sheets\Plan\Year 2\Maintenance of Traffic Site 44B & C.dwg Last Saved By: mmonnier 6/16/2025 8:43 AM Last Plotted By: Bescarello Jason 6/16/2025