July 20, 2023

Rob S. Prestas P.E., Administrator, DOSD

City of Columbus

Attn: Greg Fedner, P.E., Private Development Section Manager

Stormwater and Regulatory Management Section

111 N. Front Street Columbus, Ohio 43215

Re: WestBend Development -

Type III Variance Request

Project Name: WestBend Development

Property Address: 2474 McKinley Avenue, Columbus, Ohio 43204

PID: 010-146234, 010-146253, 010-200913, 010-146278

Site Disturbance: 43 Ac. Total Site Area: 55 Ac.

Primary Contact: E.P. Ferris & Associates, Inc.

Attn: Chad Buckley, P.E.

(614) 299-2999

cbuckley@epferris.com

Dear Mr. Fedner,

On behalf of Westbend QOZB, LLC, E.P. Ferris and Associates, Inc. (EPF) is seeking approval of a Type III, Section 1.3 variance from the City of Columbus (COC) Stormwater Drainage Manual (SWDM). This variance is being requested for the purpose of completing site improvements related to a new mixed-use development throughout a former landfill / dumping site currently used as a junkyard located east of the intersection of McKinley Avenue and Fisher Road, south and west of Larrison Lake and west of the Scioto River. The proposed site will support a variety of multi-family and commercial uses as well as future park land centered around the existing Larrison Lake, providing recreational opportunities for the community and surrounding area.

The development is located on a former quarry turned to a landfill / dumping site and will require remediation through the Ohio Environmental Protection Agency (OEPA) Division of Materials and Waste Management (DMWM) Ohio Administrative Chapter (OAC) 513 Authorization (Rule 513). To adequately maximize the developable area of the site and fully remediate the existing landfill / dumping site and provide preferred development plans, an encroachment into the Stream Corridor Protection Zone (SCPZ) of the Scioto River is required. This conflicts with Section 1.3 of the COC SWDM. The areas in question are outlined in the attached exhibits (Appendix F) as

WestBend Development - City of Columbus

Type II & III Stormwater Drainage Manual Variance Requests

prepared by EPF. All encroachments outlined in this Type III variance request will be adequately mitigated within this project site with new protected and dedicated SCPZ areas. Additionally, Westbend QOZB, LLC plans to dedicate appropriate areas to the SCPZ of the Scioto River at a ratio of 1.14:1.

Our team respectfully requests approval of this variance for this project's preferred alternative. These will not only benefit the overall development of the area, but also ensure the proper remediate of the existing landfill / dumping site. Please find enclosed our technical request in support of the variances briefly mentioned above.

Sincerely,

E. P. FERRIS & ASSOCIATES, INC.

Choo Balans

Chad Buckley, PE Project Manager

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Introduction

On behalf of Westbend QOZB, LLC, EPF is seeking approval of a Type III and variance from the COC SWDM Sections 1.3.

This variance is being sought to relieve the unique constructability hardship associated with redeveloping the existing landfill / dumping site. Approval of this variance will also ensure the proper remediation of the project site following the OEPA Rule 513. The approved Authorization can be found in Appendix D.

Type III, SWDM Section 1.3 WestBend Development Variance – Section 1.3.2 of the COC SWDM states that the SCPZ shall be kept in as natural state as possible so that it can perform its inherent ecological and hydraulic functions. As part of this policy, various activities are prohibited such as filling and construction that results in direct impacts to an existing stream. However, it is necessary to impact the SCPZ for the Scioto River in order to complete the OEPA's VAP and to properly remediate the existing solid waste conditions to allow for developable and recreational uses on the site.

In order to develop the project site's intended mixed-use and recreational areas and clean up an environmental nuisance, an OEPA Rule 513 authorization agreement is being acquired due to existing solid waste areas that result from a former landfill. To follow the plan outlined in this permit and the Rule 513 Authorization, all areas within the project site's Rule 513 boundary are to be capped to obtain a minimum clay cover of four (4) feet, including those found within the Scioto River's SCPZ. This variance will allow necessary capping and grading to improve these former landfill areas in addition to adjacent areas either with deeper trash or without contaminated materials for future development. Capping of the solid waste in the SCPZ will improve the riparian area along the river and reduce the potential of pollution from the landfill entering the river. It will ultimately promote environmental safety and will accept the development plan's incorporation of newly dedicated SCPZ sections along the Scioto River. The current junkyard operations extend into the delineated SCPZ in a similar fashion as the landfill areas and will also be included with the improvements to the riparian areas. This project is committed to providing a preservation type easement along the Scioto River corridor at a 1.14:1 ratio providing more mitigated SCPZ area than the minimum required 1:1 ratio.

Project and Site Information

The proposed project site is located in an industrial area east of the intersection of McKinley Road and Fisher Road in the west central portion of the COC. The project site consists of approximately 55 acres of land (including approximately 12.3 acres being Larrison Lake) previously used as an active quarry, then a landfill / dumping site and later a junkyard. The Franklin County Parcel Identification numbers for this site are 010-146234, 010-146253, 010-200913, and 010-146278. The Scioto River borders the project site to the east, Larrison Lake borders the northwestern

portion and McKinley Avenue borders the western half. There is also an approximate 5.21 acre tract southwest of the intersection of McKinley Avenue and Fisher Road, bordered by both roads and a railroad track to the west. The approximate latitude/longitude coordinates at the center of the site are 39.9754, -83.0663.

Much of the project site consists of flat ground that is currently used as an automobile junkyard, and consists of portions of asphalt pavement, gravel drives, vegetation, and tree cover. The northwestern portion of the project site consists of steep grades and tree cover that leads down to the edge of Larrison Lake. Along the southeastern portion of the project site, there is also tree cover and steep grades that make up the western bank of the Scioto River.

Investigation of the site's current conditions revealed that approximately 28.2 acres of the site contain solid waste. See Appendix H for the sites Geotechnical Report and Boring Logs. This area is located in the center of the project site, making up most of the developable area. However, a significant portion of the OEPA Rule 513 area overlaps with the existing SCPZ area for the Scioto River. The encroachment area in question for this variance request is located both within the OEPA Rule 513 area and the existing SCPZ. This encroachment will allow these areas to be properly mitigated following the OEPA's Rule 513 Authorization. Exhibit showing the SCPZ adjustment areas can be found in Appendix F.

The existing site generally flows from west to east, with the northern portion directed into Larrison Lake and the southern portion directed into the Scioto River. The site currently does not have any stormwater control practices in place. Approval of this variance will allow the project site to be fully developed and mitigated, with all required stormwater control practices for post-construction water quality and detention put in place per the COC SWDM.

Upon reviewing the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) Panel 39049C0302K, the project site has been determined to include both Zone X and Zone AE. The western majority of the project site is located in Flood Zone X, and the eastern edges along Larrison Lake and the Scioto River are located in Flood Zone AE. The Designation Zone AE is described as the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be conveyed without substantial increases in flood heights. There will be areas of the 100-year floodplain that are filled during the development of this site, however these areas will be mitigated with compensatory cut into the 100 year floodplain at a different location on the project site per the requirements of the SWDM. Compensatory cut and fill is detailed within the Mass Excavation plan for Phase 1, see Appendix G, and the Storm and Grading CC Plan to be designed and reviewed.

Section 1 - Reason Variances are Requested

Type III, SWDM Section 1.3 WestBend Development Variance:

The project site's existing conditions present an additional unusual design challenge that requires the development and design teams to obtain a variance from Section 1.3 of the SWDM and encroach upon the Scioto River's SCPZ on the eastern side of the project site. Despite this section's restrictions from certain construction activities within a stream's SCPZ, this project site resides on a formerly active landfill / dumping area with areas of existing solid waste under less than two (2) feet of cover that currently overlap the Scioto's SCPZ. Due to this overlap and in accordance with the Rule 513 Authorization, the project's preferred plan incorporates capping this area and grading its surrounding sections in preparation for future development.

Filling within waste areas overlapping the Scioto SCPZ will not only adequately prepare the project site, but it will also help eliminate the local environment's direct exposure to waste and reduce potential contamination of surface and ground water. By granting this Type III variance, the project will be able to significantly improve conditions within the Scioto River's SCPZ and will mitigate these necessary encroachments by dedicating new SCPZ Conservation Easements directly adjacent to these areas on-site at a ratio of 1.14:1 in favor of the SCPZ area.

If full compliance with the SWDM was required, this project would not be permitted to complete the clean clay capping plan per its Rule 513 along the northern and eastern sides of this project site currently within the SCPZ. Additionally, if these landfill sections within the SCPZ were not capped, then development along the entire northern and eastern side of the project site would not be possible due to OEPA Solid Waste Regulations and the potential negative health impacts. These conditions would certainly deprive the development of the reasonable use of this land and the original intent to improve the site's poor environmental conditions.

For these various reasons, the WestBend Development is requesting this Type III Variance from SWDM Section 1.3 to encroach upon the Scioto River SCPZ. As previously explained, these encroachments will be mitigated at a ratio of 1.14:1 and the variance will grant the project's reasonable use of this land to adequately complete the Rule 513 and maximize its developable/recreational potential.

Section 2 – Site Development Alternatives

Type III, SWDM Section 1.3 WestBend Development Variance

No Impact/Degradation Development Alternative Fully Complying with SWDM:

An alternative development plan for this project that fully complies with the SWDM would involve avoiding any encroachments to the Scioto River SCPZ. This would significantly reduce all mixed-

use development proposed across the subject parcels in the project and would effectively diminish the remediation of the project site in the most critical areas, directly adjacent to the Scioto River and Larrison Lake, and only allow development of the western portion of the site, southwest of the intersection of McKinley Avenue and Fisher Road.

Restricting encroachment into the Scioto River and Larrison Lake SCPZ would not allow capping of shallow landfill areas currently spread across the eastern edge of the project site, which would significantly limit any potential development due to OEPA Solid Waste Regulations. These regulations require strict waste management to protect public and environmental health and the isolation of contaminated materials to prevent their exposure when development is proposed. These conditions are why the project is following a Rule 513 Authorization through the OEPA to provide four (4) foot capping of solid waste areas prior to development. Per OAC 3745-27-11, the owner of a former solid waste landfill is required to close (cap) the entire footprint of the former landfill. Failing to properly cap all areas of solid waste would breach this plan, effectively preventing the team from developing the project site as previously stated. (See Appendix E).

Additionally, a lack of development across the project's eastern parcels would eliminate the opportunity to provide unique recreational opportunities at the areas around existing Larrison Lake, which is planned to public use park space as a part of the project.

This alternative would certainly introduce planning, programming, and constructability hardships to the redevelopment of this project site. It would also prevent efforts to contain contaminated materials within the Scioto River SCPZ to avoid their potential spread into the surrounding environment. Absence of landfill capping in this plan would allow rain and snowmelt to continue seeping through contaminants to the groundwater, runoff to carry contaminated material offsite or into the Scioto River, waste gas to be released, and surrounding residents/wildlife to potentially come into contact with hazardous material.

Minimal Impact/Degradation Development Alternative Plan:

The minimal impact plan alternative for this project involves no impact to the SCPZ and only developing the western portion of the site, southwest of the intersection of McKinley Avenue and Fisher Road (See Appendix E). This plan would allow the capping and remediation of the western portion of the site per the OEPA's VAP and minimal development in that area. The majority of the project site, including all the area east of McKinley Avenue, would remain undeveloped. This impact scenario would be the same as the No Impact Alternative.

In this plan, the development of the site would no longer be economically viable, as the developable area would be reduced significantly. With the eastern portion of the site remaining undeveloped there would be no improvements to the banks of the Scioto River and Larrison Lake, which would result in no improvement to the water quality runoff. Additionally, there would no longer be any recreational opportunities around the banks of the Scioto River or surrounding Larrison Lake.

Preferred Development Plan:

The preferred plan for this project involves encroaching upon the Scioto River SCPZ. These preferred encroachments will allow our team to complete the OEPA's Rule 513 Authorization by capping existing shallow landfill areas within the Scioto River's SCPZ and to complete grading adjacent to these areas in preparation for future mixed-use development. The overall preferred development site plan is shown in Appendix E.

As previously stated, former landfill sections within the Scioto River SCPZ are being capped not only for the preferred development of the eastern side, but to contain contaminated materials along the Scioto River's banks that can harm the environment.

Encroachments to the Scioto River SCPZ in the preferred plan will amount to 1.778 acres of SCPZ encroachment, with only 0.489 acres permanently encroached upon. Total SCPZ Conservation Easement dedication to mitigate these encroachments will occur on the eastern edge of the project site directly adjacent to the Scioto River at a ratio of 1.14:1 and will result in 0.559 acres of SCPZ Conservation Easement including 0.070 acres of new area to be protected from future development.

There is a significant portion of the SCPZ along the eastern and northern edge of the project site that is currently junkyard and within the Rule 513 area. These areas will be remediated and improved with the rest of the site, ensuring all the Rule 513 area on site is remediated per the Rule 513. As shown in Appendix F, 1.289 acres of this area will not be developed and will remain a part of the SCPZ. These areas within the SCPZ will be improved by a clean cap of clay being placed on top of the existing trash layer, stabilization of the clay cap after it has been placed and adjusting the adjacent land use from an active junkyard to a new development adhering to the standards of the CoC SWDM. These areas will also be remediated per the SCPZ Mitigation Plan in Appendix K returning these areas to a proper riparian corridor. All these actions will serve as improvements to the function of the SCPZ for the Scioto River.

<u>Section 3 – Demonstration of Adequate Mitigation</u>

Impact to SCPZ:

As previously discussed, this project's preferred alternative directly impacts the Scioto River delineated SCPZ by proposing landfill capping along the eastern edge of the project site. Landfill capping within the SCPZ is necessary to adhere to an active Rule 513 with the OEPA and to adequately improve this project's environment for future development. This disturbance will be accomplished while providing proper mitigation in accordance with the COC SWDM.

Based on conceptual plans, approximately 1.778 acres of the Scioto River delineated SCPZ along the northern and eastern sides of the project site will be impacted for necessary landfill capping and development grading, with 0.489 acres permanently removed from the SCPZ. This encroachment will be mitigated at a ratio of approximately 1.14:1 in the location as depicted in Appendix F, by dedicating 0.559 acres of new SCPZ. This area dedicated to new SCPZ will remain onsite and directly west of the Scioto River on the site's eastern side. There will be approximately 1.289 acres of SCPZ that is encroached upon for remediation purposes then will be returned to the SCPZ.

A portion of the SCPZ along the Scioto River, approximately 1.10 acres, is currently in use as a junkyard/auto-parts retailer. These areas consist of gravel and recycled asphalt roads along with bare landfill where scrapped vehicles are stored. Currently no provisions beyond the current vegetation and streambank of the river are in place to prevent erosion in the SCPZ or runoff of potentially hazardous chemicals from the landfill or scrapped vehicles. The capping of the landfill with clean clay and change in land use will prevent harmful runoff from trash or junkyard activities while providing a less erodible ground condition within the SCPZ. These areas will then be planted per the mitigation plan extending the vegetated zone along the river from approximately 40 to 80 feet. This area falls along an outer bend where the additional riparian width of the SCPZ can be beneficial against erosion during flooding events.

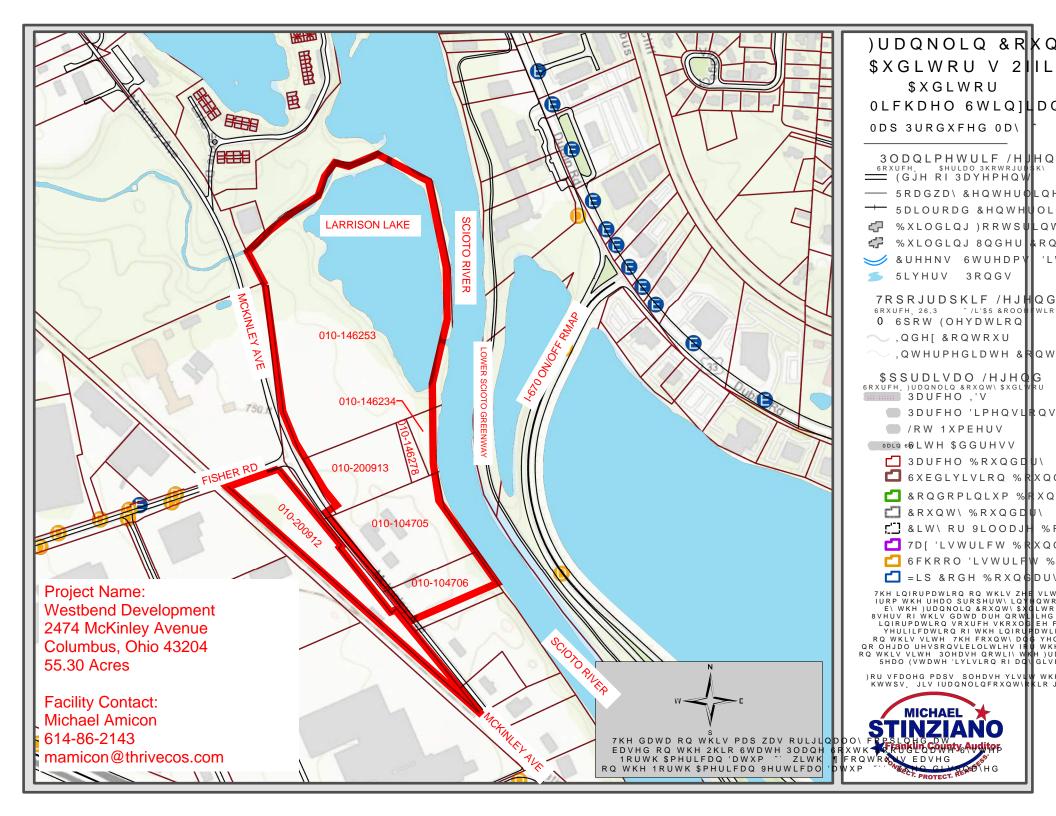
It is the intent when dedicating this new SCPZ to provide areas that will perform the same function as the disturbed SCPZ but in a more environmentally preferable location as shown on the SCPZ Mitigation Plan in Appendix K.

<u>Section 4 – Executive Summary</u>

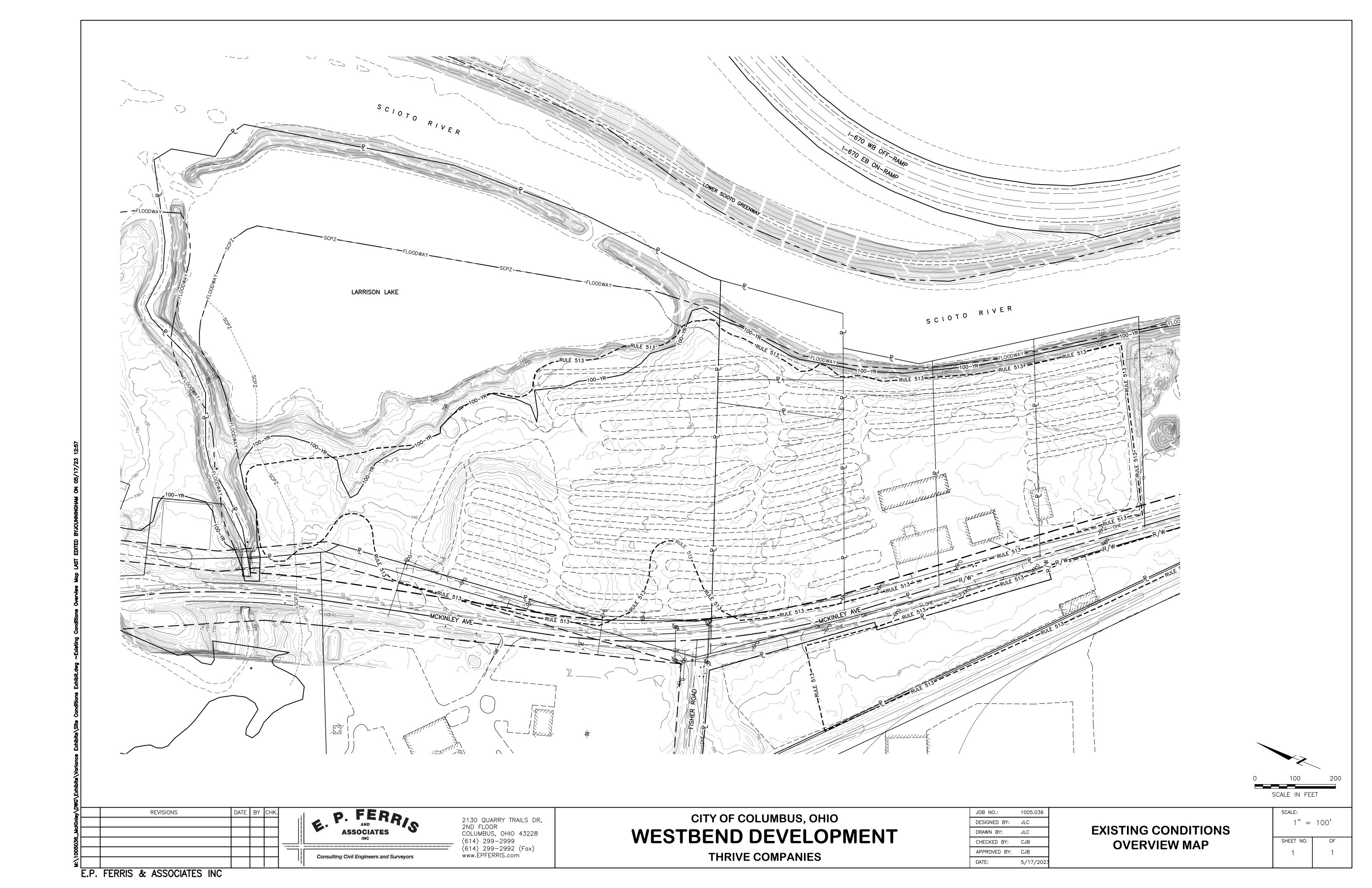
Unique conditions of the WestBend Development present various unusual design and constructability challenges to be considered. However, by granting the Type III SWDM variance sought by this request, the COC will allow improvements to be completed through this project's preferred alternative plan. This plan will allow the proper remediation of the site per the OEPA's Rule 513 Authorization and improve the corridors of the Scioto River SCPZ by enhancing the environmental conditions and setting aside a 1.14:1 ratio of additional SCPZ acreage than the SWDM currently requires. Repurposing this brownfield site into an active mixed-use development with recreational opportunities is only possible with the approval of the requested variances.

The unusual design challenges that this site possesses warrants the request of the abovementioned variances from the SWDM.

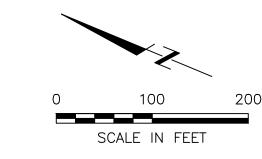
APPENDIX A SITE LOCATION MAP



APPENDIX B EXISTING CONDITIONS OVERVIEW MAP







REVISIONS

DATE BY CHK.

P.FERR
2130 QUARRY TRAILS DR, 2ND FLOOR COLUMBUS, OHIO 43228
(614) 299–2999
(614) 299–2992 (Fax)
www.EPFERRIS.com

CITY OF COLUMBUS, OHIO
WESTBEND DEVELOPMENT

THRIVE COMPANIES

JOB NO.:	1005.036
DESIGNED BY:	JLC
DRAWN BY:	JLC
CHECKED BY:	CJB
APPROVED BY:	CJB
DATE:	5/17/2023

EXISTING CONDITIONS OVERVIEW MAP

SCALE: 1" =	100'
SHEET NO.	OF
1	1

E.P. FERRIS & ASSOCIATES INC

APPENDIX C

ALTA SURVEY

Franklin County records. (As to Parcels I—II)
Paine—McKinley Avenue, LLC Who acquired said interest in Instrument 201011170154930, filed November 17, 2010 in the Franklin County records. (As to Parcels III—VI) Paine-McKinley Avenue, LLC Who acquired said interest in Instrument 200212300334742, filed December 30, 2002 in the

Franklin County records. (As to Parcel VII) FLOOD ZONE: Said described property is located within an area having a Zone Designation "X" and "AE" by the Secretary of Housing and Urban

Development, on Flood Insurance Rate Map No. 39049C0302K with a date of identification of June 17, 2008, for Community Number 390181, in Franklin County, State of Ohio, which is the current Flood Insurance Rate Map for the community in which said property is situated. 1. This property has direct access to McKinley Ave.

2. There is no observed evidence of current earthmoving, work, building construction or building additions. 3. There is no observed evidence of recent street or sidewalk construction or repairs.

4. By field observation only, the property appears to have access to water service, electric service, gas service, sanitary sewer, telephone service, and storm water drainage. 5. Due to heavy brush and over grown vegetation not all the improvements on the subject property have been shown.

SURVEYOR NOTE:

This survey has been completed using the provided documentation in Title Commitment Number 346808 issued by Stewart Title Company effective date January 25, 2019.

The property described hereon is the same as the property described in Stewart Title Company Commitment Number 346808 with an effective date of Jaunuay 25, 2019 and that all easements, covenants and restrictions referenced in said title commitment or apparent from a physical inspection of the site or otherwise known to me have been plotted hereon or otherwise noted as to their effect on the subject property.

The legal description provided in Commitment No. 346808 for Parcel III does not mathematically close.

RESPONSE TO SCHEDULE B - SECTION II

(Stewart Title Company Commitment Number 346808 Effective Date January 25, 2019 @ 6:00am 10. Easement granted to the City of Columbus, Ohio, as more fully set forth Shown on Survey.

Shown on Survey.

Not on Property

Easement for pole line.

Shown on Survey.

Shown on Survey.

Shown on Survey.

Not on Property.

Shown on Survey.

No survey items to plot.

No survey items to plot.

Shown on Survey.

Shown on Survey.

Shown on Survey

No survey items to plot.

Easement for pole line along McKinley Ave.

Easement for pole line along McKinley Ave. Affects subject property. Exact location unknown. Width of easement not specified.

Easement for pole line along McKinley Ave.

Affects subject property. Exact location unknown.

Easement for anchor placement along McKinley Ave.

Affects subject property. Exact location unknown.

Affects subject property. Exact location unknown. Exhibit "A" not provided.

Affects subject property. Exact location unknown.

Affects subject property. Exact location unknown.

Affects subject property. Easements do not mathematically close. Exact location unknown.

in the document recorded as Deed Book 2443 Page 520. (As to Parcels 11. Easement contained in the Deed of record in Deed Book 466 Page 128. (As to Parcels III, IV and VII) 12. Easement granted to The Columbus, Railway, Power & Light Company,

as more fully set forth in the document recorded as Deed Book 968 Page 236. (As to Parcel V) 13. Easement granted to The Óhio Bell Telephone Company, as more fully set forth in the document recorded as Deed Book 1033 Page 227. (As to Parcel V)

14. Easement granted to The Columbus Railway, Power & Light Company, as more fully set forth in the document recorded as Deed Book 1033 Page 422. (As to Parcels III-IV) 15. Easement granted to The Ohio Bell Telephone Company, as more fully set forth in the document recorded as Deed Book 1033 Page 232. (As

16. Easement granted to The Columbus Railway, Power & Light Company, as more fully set forth in the document recorded as Deed Book 1048 Page 17. Easement granted to Columbus and Southern Ohio Electric Company, as

more fully set forth in the document recorded as Deed Book 1356 Page 533. (As to Parcels III—IV) 18. Easement granted to the City of Columbus, Ohio, as more fully set forth in the document recorded as Deed Book 1809 Page 451. (As to Parcels

19. Right of Entry Easement, as more fully set forth in the document recorded as Deed Book 2544 Page 368. (As to Parcels III-IV) 20. Right of Entry Easement, as more fully set forth in the document recorded as Deed Book 2544 Page 371. (As to Parcels III-IV) 21. Easement as more fully set forth in the document recorded as Deed

Book 2879 Page 394. (As to Parcels III-IV) 22. Easement granted to Columbus and Southern Ohio Electric Company, as more fully set forth in the document recorded as Deed Book 2564 Page 80. (As to Parcels VI-VII) 23. Easement granted to The Ohio Bell Telephone Company, as more fully

set forth in the document recorded as Deed Book 3126 Page 149. (As 24. Easement granted to the City of Columbus. Ohio, as more fully set forth in the document recorded as Deed Book 3251 Page 630. (As to Parcels

25. Agreement between Adjoining Owners Fixing Common Line by and between Joseph B. Ridolfo and Lula Ridolfo and Robert Lyman Dye and Eva Delie Dve Butts, Trustees of record in Miscellaneous Record 143

Page 244. (As to Parcels III-V) 26. Agreement between Adjoining Owners Fixing Common Line by and between Joseph B. Ridolfo and Lula Ridolfo and the City of Columbus, Ohio of record in Miscellaneous Record 143 Page 247. (As to Parcels

27. Lease by and between Ace Outdoor Advertising, as Lessee and Buckeye Auto Parts of Columbus, Inc., as Lessor of record in Instrument 200010230214444; as assigned to Infinity Outdoor, Inc. of record in Instrument 200010230214446. (As to Parcel VII) 28. Lease by and between Ace Outdoor Advertising, as Lessee and Buckeye

Auto Parts of Columbus, Inc., as Lessor of record in Instrument 200010230214442; as assigned to Infinity Outdoor, Inc. of record in Instrument 200010230214445. (As to Parcel V) 29. Easement as more fully set forth in the document recorded as Deed

Book 645 Page 371. (As to Parcel V) 30. Easement granted to the City of Columbus, as more fully set forth in the document recorded as Deed Book 941 Page 78. (As to Parcels

31. Terms, provisions, options, rights of first refusal, covenants, conditions, restrictions, easements, charges, assessments and liens provided in the Covenants, Conditions and Restrictions of record in Instrument 200308280272775; Acknowledgment and Waiver of Reciprocal Right of First Refusal for Limited Purpose of record in Instrument 201008260109709. (As to Parcels III-VI)

EXISTING UTILITIES:

All existing utilities have been shown as field located by O.U.P.S. (Ref No A917202090). EXISTING ON—SITE PARKING: Regular parking spaces 8 Handicap parking spaces 0

Total Spaces Available **APPARENT ENCROACHMENTS:**

(1) Appears existing fence encroaches. Ownership unknown.

 $\langle 2 \rangle$ Existing sanitary sewer appears to encroach outside of existing easement.

(3) Existing waterline appears to encroach easement not provided.

(4) Existing Billboard appears to encroach. Easement not provided,

ZONING Not provided.

T

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— UGE - —

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20.33'(M)

S88°05'11"E(M)

POC

POB

Legend

Gas Marker Post Electrical Transformer Air Conditioning Unit Sac Ex. Telephone Pedestal Ex. Valve. WV- Water, GV- Gas

> Property Line Right-of-Way Ex. Fire Hydrant

Ex. Electric/Telephone Pole w/ Light Ex. Drop Pole / Traffic Signal Pole

* Ex. Ground Light Ex. Utility Pole Ex. Light Pole — stm- —

Ex. Storm Sewer Ex. Sanitary Sewer Ex. Overhead Electric Ex. Underground Electric Ex. Catch Basin (CB)

Ex. Manhole (MH) Ex. Parking Count Iron Pin Found (IPF) Iron Pin Set (IP Set) or

MAG Nail Set w/ Brass Survey marker

Ex. Street Sign MB Ex. Mailbox Yard Drain (YD) — UGT - — Ex. Underground Telephone — -G— — Ex. Gas Line Ex. Water Line Ex. Fiber Optic

Pony Spike Set

— X — Ex. Fence PLProperty Line R/W Right-of-Way 20.25' (D) Deed bearing and distance S87°51'30"E (D)

Measured bearing and distance

Point of Commencement Point of Beginning



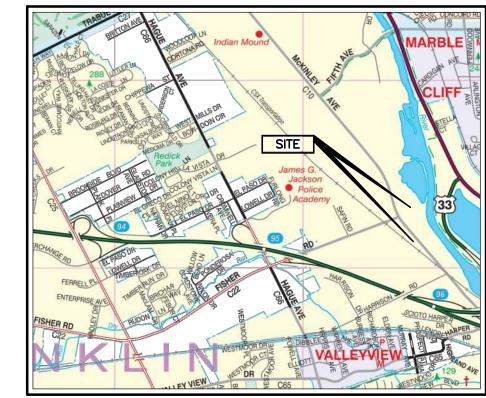
Consulting Civil Engineers and Surveyors

880 KING AVENUE COLUMBUS, OHIO 43212 (614) 299-2999 (614) 299-2992 (Fax) www.EPFERRIS.com

ALTA / NSPS LAND TITLE SURVEY 2474 McKinley Ave

Part of that 9.46 acre tract of land conveyed to Harry A. Coleman, Robert J. and Bette L. Huston and Harry Barr, by deed of record as shown in Deed Book 3329, page 501, also being a portion of an original 32.5+ acre tract of land deeded to the City of Columbus by Louis Golden through Deed Volume 941, Page 78

City of Columbus Franklin County, Ohio



Location Map Not To Scale

PROPERTY DESCRIPTION PARCEL I: (010-104705)

Situated in the State of Ohio, County of Franklin, City of Columbus, and being a part of that 9.46 acre tract of land conveyed to Harry A. Coleman, Robert J. and Bette L. Huston and Harry Barr, by deed of record as shown in Deed Book 3329, page 501, in the office of the Recorder of Franklin County, Ohio, and being more particularly described as follows: Being the Northern one-third (1/3) of the above 9.46 acre tract and being bounded as follows:

Beginning at the Northwesterly corner of said 9.46 acre tract, thence N. 67° 56' 11" E. a distance of 659.52 feet to a point in the Northeasterly corner of said 9.46 acre tract; thence S. 10° E. with the Easterly line of said 9.46 acre tract a distance of 191.56 feet to a point; thence continuing with the Easterly line of said 9.46 acre tract, S 34° E. a distance of 34.56 feet to a point; thence S. 66° 30' W. parallel to the Southerly line of said 9.46 acre tract, a distance of 559.66 feet to a point in the Westerly line of said 9.46 acre tract; thence N. 38° W. with the Westerly line of said 9.46 acre tract, a distance of 244.56 feet to the place of

beginning and containing 3.19 acres of land, more or less. Situated in the County of Franklin, in the State of Ohio and in the City of Columbus, and bounded and Being a part of the 9.46 acre tract of land conveyed to Harry A. Coleman, Robert J. Huston and Bette L. Huston and Harry Barr by deed of record in Deed Book 3329, Page 501, the Recorder's Office, Franklin County, Ohio and being particularly described as follows:

Being the middle one—third (1/3) of the above 9.46 acre tract and being bounded as follows: Beginning for reference at the southwesterly corner of said 9.46 acre tract, thence N 38° W a distance of 270.01 feet to the true place of beginning Thence continuing N 38° W a distance of 260.77 feet to a point;

Thence N. 66° 30' E crossing said 9.46 acres, a distance of 559.66 feet to a point in the easterly line of Thence S 34° E with the easterly line of said 9.46 acre tract a distance of 256.76 feet to a point; Thence S. 66° 30' W parallel to the southerly line of the 9.46 acre tract a distance of 541.16 feet to the place of beginning containing 3.19 acres of land, more or less.

PARCEL II: (010-104706-00) Situated in the County of Franklin, in the State of Ohio, and in the City of Columbus, and bounded and described as follows: Being a part of that 9.46 acre tract of land conveyed to Harry A. Coleman, Robert J. and Bette A. Huston and Harry Barr, by deed of record as shown in Deed Book 3329, Page 501, in the office of the Recorder of Franklin County, Ohio, and being more particularly described as follows:

Being the southerly one-third (1/3) of the above 9.46 acre tract and being bounded as follows: Beginning at the Southwesterly Corner of the said 9.46 acre tract, thence N. 38° W a distance of 270.01 feet to a point: thence N. 66° 30' E. crossing the said 9.46 acre tract, a distance of 541.16 feet to a point in the Easterly line of said 9.46 acre tract; thence S. 34° E with the Easterly line of said 9.46 acre tract, a distance of 265.86 feet to the Southeasterly corner of said 9.46 acre tract; thence S. 66° 30' W, with the Southerly line of said 9.46 acre tract a distance of 522 feet to the place of

PARCEL III: (010-146234-00) Situated in the County of Franklin, in the City of Columbus and in the State of Ohio, and bounded and described as follows: Beginning at a stone in the center of the stone quarry pike where the north line of the original survey intersects the same; thence S. 49 deg. E. 49.20 poles to a corner of the Macon Trabue heirs' 8.40 acre tract held in common for stone quarry purposes, thence S. 6 1/2 deg. E. 28 poles to a large boulder; thence N. 66 deg. E. 16 poles to the west bank of the Scioto River; thence up the river with its meanders thereof N. 1 3/4 deg. W. 21.21 poles, N. 9 1/2 deg. E. 21.21 poles, thence N. 3 1/2 deg. E. 21.27 poles, thence N. 6 deg. W. 32.12 poles to the mouth of a large run; thence up the run and with the meanders thereof N. 60 deg. W. 6 poles, thence N. 47 deg. W. 9.72 poles, thence S. 74 1/2 deg. W. 7.36 poles, thence S. 45 deg. W. 9.46 poles, thence S. 78 1/2 deg. W. 10.84 poles, thence S. 2 1/2 deg. W. 9.72 poles, thence S. 52 1/2 deg. W. 9.06 poles, thence S. 64 3/4 deg. W. 7.20 poles, thence S. 42 1/2 deg. W. 13.32 poles to a stone in the center of the Trabue Free Pike, thence with the center of said Free Pike,

S. 33 1/2 deg. E. 10.24 poles to the place of beginning. Said premises being Lots 7 and 8 of John P. Trabue's Heirs Subdivision as same is shown in Plat Book 5, Page 265, Recorder's Office, Franklin PARCEL IV: (010-146278-00) Situated in the County of Franklin, in the City of Columbus and in the State of Ohio, and bounded and

described as follows: Beginning at a point on the line between the 21.64 acre tract owned by John Dye, as described in Deed Book 200, Page 414, and the above mentioned 31 acre tract, more or less, owned by the City of Columbus, said point beginning being 811.8 feet southeasterly, measured along said line from the intersection of said line with the center line of McKinley Avenue (Stone Quarry Road); thence with the continuation of said line and a bearing of S. 49 deg. E. a distance of 69.2 feet to a point; thence S. 13 deg. 45' E. a distance of 384.00 feet to a point; thence S. 66 deg. W. a distance of 99.8 feet to a point; thence N. 6 deg. 30' W. a distance of 462.00 feet, more or less, to the place of beginning, and containing 0.68 of an acre. PARCEL V: (010-146253-00)

Situated in the County of Franklin, State of Ohio, and City of Columbus, and bounded and described as Commencing at a found spike at the intersection of the centerline of Fisher Road with the centerline (old location) of McKinley Avenue; thence North 8 degrees 39 minutes West along the centerline (old location) of said McKinley Avenue, the centerline, (old location) of said McKinley Avenue, is shown on Sheets 2 and 3 of Right of Way Plan of McKinley Avenue, County Road 10, 1962, in the office of the County Engineer of Franklin County, Ohio, a distance of 507.58 feet to a found spike; thence North 81 degrees 21 minutes East along a line perpendicular to the centerline (old location) of said McKinley Avenue, a distance of 25.0 feet to a found iron pin in the easterly right of way line of said McKinley Avenue (old location) and the true point of beginning of this description; thence North 8 degrees 39 minutes West along the Easterly right of way line of said McKinley Avenue (old location) and along a line 25 feet (measured at right angles) easterly of and parallel to the centerline (old location) of said McKinley Avenue a distance of 433.59 feet to a point; thence South 52 degrees 05 minutes East, a distance of 597.1 feet to

a found iron pin; thence South 81 degrees 21 minutes West, a distance of 410.5 feet to the place of beginning, containing 2.043 acres. PARCEL VI: (010-200913-00) Being situated in the State of Ohio, County of Franklin, City of Columbus and being a portion of an original 32.5+ acre tract of land deeded to the City of Columbus by Louis Golden through Deed Volume 941, Page 78 as shown of record in the Franklin County Recorder's Office, said portion being herein

designated as Parcel "A" and also being a part of Survey 530 in the Virginia Military District, being Beginning for reference at a railroad spike (found) N 8° 33′ 21″ W (by this survey) along the old centerline of McKinley Avenue a distance of 507.92 feet from the intersection of Fisher Road and McKinley Avenue (formerly known as the Stone Quarry Road), thence, N 81° 26' 39" E with a line being at a right angle to the aforementioned McKinley Avenue a

distance of 25.00 feet to a 1" diameter pipe (found), said pipe being the southwest corner of a 2.043 acre tract of land as recorded in Deed Volume 2966, Page 268 in the Franklin County Recorder's Office, said pipe also being the true place of beginning of the herein described Parcel "A", thence, N 81° 26' 39" E a distance of 410.50 feet to a point, said point being the southeast corner of the above mentioned 2.043 acre tract of land.

thence, S 51° 59' 20" E along the westerly line of a certain 21.64 acre tract of land being recorded in O.R. 03696E14 in the Franklin County Recorder's Office a distance of 227.59 feet to a point, thence, S 16° 29' 00" E along the westerly line of the above mentioned 21.64 acre tract, a distance of 539.97 feet to a point in the north line of a certain 3.19 acre tract of land being of record in Deed Volume thence, S 65° 31′ 00″ W along the north line of the above mentioned 3.19 acre tract a distance of 439.30 feet to a 3/4" re-bar (found) said re-bar being in the easterly right of way, 40.00 feet from and at a right angle to the old centerline of McKinley Avenue, thence, N. 36° 50' 03" W along the easterly right of way of McKinley Avenue a distance of 120.87 feet to a 3/4" re-bar (found), thence, N. 31° 59' 55" W a distance of 252.08 feet to an angle point in the easterly right of way of

McKinley Avenue N. 65° 18' 30" E a distance of 90.00 feet from the intersection of Fisher Road and thence, N. 23° 50' 00" W a distance of 233.23 feet to a 1/2" re-bar (found), said re-bar being in the easterly right of way, 25.00 feet from and at a right angle to, the older centerline of McKinley Avenue. thence, N. 8° 33' 21" W along the easterly right of way of McKinley Avenue a distance of 257.92 feet to the true place of beginning, containing 9.246 acres of land, more or less. The basis of bearings for this description are based upon a certain plan prepared by the Franklin County Engineer's Office (establishing, altering, widening and relocating McKinley Avenue Section "C" Part, County Road No. 10, Franklin Township, Franklin County, Ohio), being on file in Road Record Book 19, Page 194 and 195, and right of way portion of said plan also being on file in the City Engineer's Office Map Section (being known as ROW-38) and the bearing shown as S 40° 44' E on McKinley Avenue was

This description was prepared by Donald E. Tobias, Registered Surveyor #5977 (State of Ohio) for the City of Columbus based upon a survey conducted in 1984 by the City of Columbus. PARCEL VII: (010-200912-00) Being situate in the State of Ohio, County of Franklin, City of Columbus and being a portion of an original 32.5+/- acre tract of land deeded to the City of Columbus by Louis Golden through Deed Volume 941, Page 78 as shown of record in the Franklin County Recorder's Office, said portion being herein

designated as Parcel "B" and also being a part of Survey 530 in the Virginia Military District, being bounded and described as follows: Beginning for reference at a railroad spike (found) N 8° 33′ 21″ W (by this survey) along the old centerline of McKinley Avenue a distance of 507.92 feet from the intersection of Fisher Road and McKinley Avenue (formerly known as the Stone Quarry Road),

thence. S 8° 33′ 21″ E a distance of 507.92 feet to the above mentioned road intersection, thence, S 69° 58' 30" W along the centerline of Fisher Road a distance of 29.53 feet to a point, thence, S 20° 01' 30" E a distance of 35.00 feet to a point, said point being the most northeasterly corner and the true place of beginning of the herein described parcel "A", thence, S 40° 44' 00" E with line parallel to and 40.00 feet from the old centerline of McKinley Avenue, a

distance of 527.70 feet to a point, thence, S 49° 16' 00" W a distance of 20.00 feet to a point, thence, S 40° 44' 00" E a distance of 450.00 feet to a point,

thence, N 49' 16" 00" E a distance of 35.00 feet to a point, thence S 40° 44' 00" E along the original west line of McKinley Avenue, said west line being formerly described in the above mentioned description of the original 32.5+/- acre tract a distance of 748.49 feet to a point in the easterly right of way of the present Conrail Railroad (formerly known as the Toledo and Ohio Central Railway), said point being at a right angle from the centerline of the mainline tract a distance of 33.0 feet, said point being the most southerly corner of the herein described tract of land, thence, N 49° 46' 47" W along the easterly line of the above mentioned Conrail Railroad right of way a distance of 1853.77 feet to a point, said point being 35.00 feet south of and at a right angle to the centerline of Fisher Road, said point being the most northwesterly corner of the herein described tract of land,thence, N 69° 58′ 30" E along the southerly right of way of Fisher Road a distance of 295.57 feet to the true place of beginning, containing 5.214 acres, more or less. The basis of bearings for this description are based upon a certain plan prepared by the Franklin County Engineer's Office (establishing, altering, widening and relocating McKinley Avenue Section "C" Part,

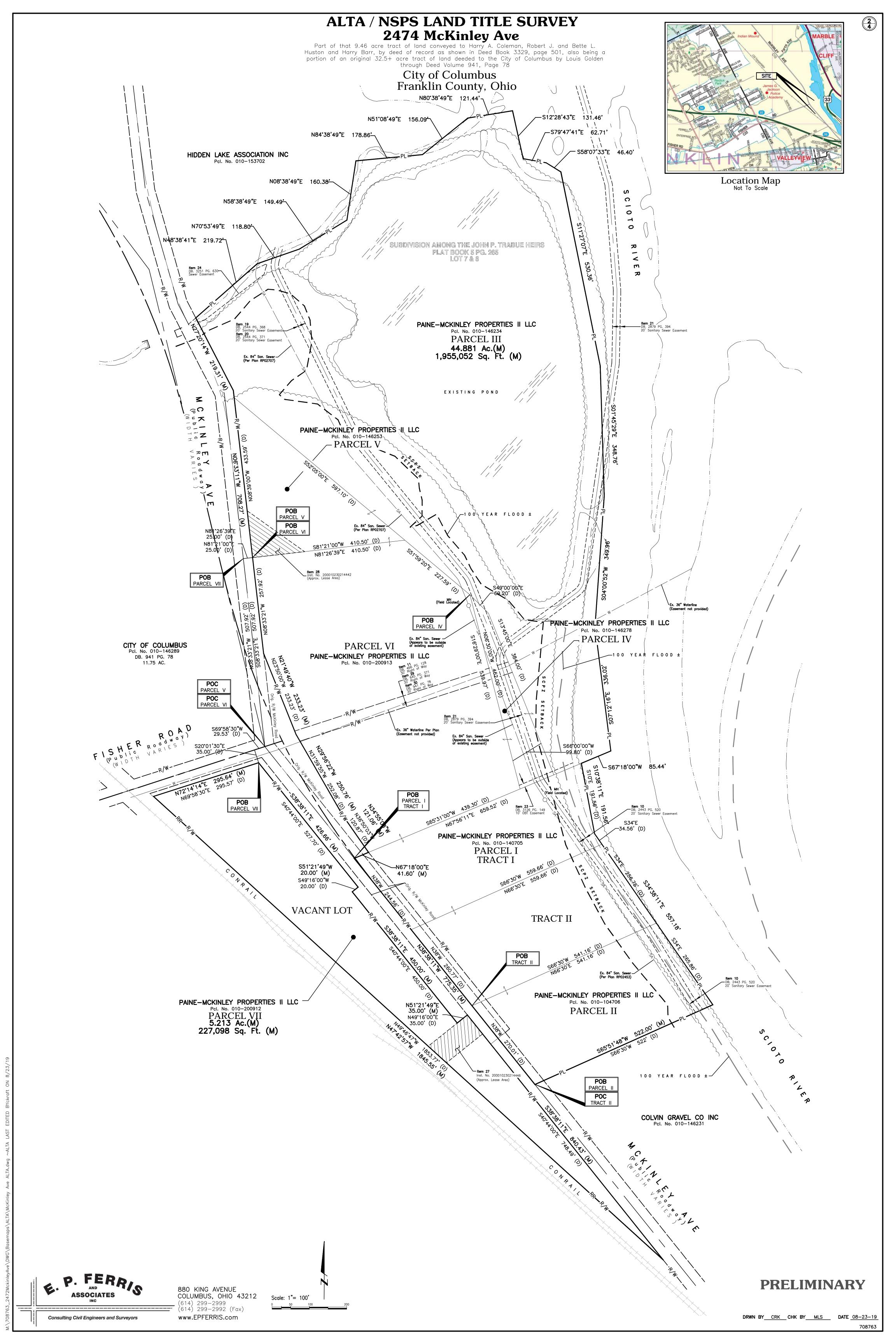
County Road No. 10, Franklin Township, Franklin County, Ohio), being on file in Road Record Book 19, Pages 194 and 195, and right of way portion of said plan also being on file in the City Engineer's Office Map Section (being known as ROW-38) and the bearing shown as S 40° 44' E on McKinley Avenue was This description was prepared by Donald E. Tobias, Registered Surveyor #5977 (State of Ohio) for the City of Columbus based upon a survey conducted in 1984 by the City of Columbus.

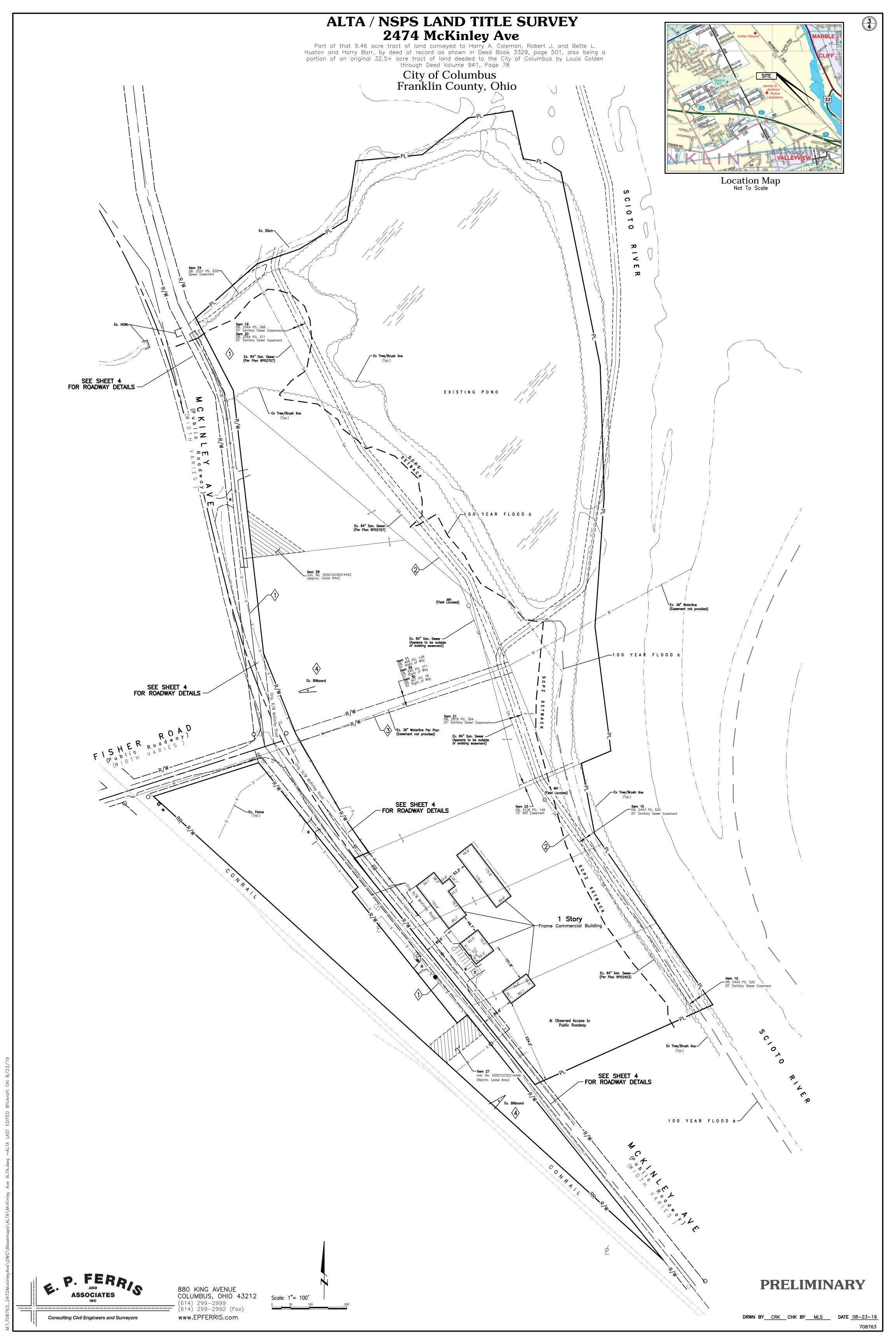
> We hereby certify that the foregoing Boundary Survey was prepared from actual field measurements in accordance with Chapter 4733-37 Ohio Administrative Code. All iron pins set are 5/8" rebar, 30" in length with yellow plastic cap and all Mag Nails set are with brass survey marker with "EP FERRIS SURVEYOR 8230" inscribed

CERTIFICATION

To Riverbend Commercial Title Services LP., SB Columbus LLC., JHI Realty, LLC, an Indiana limited liability company, First American Title Insurance Company that: The undersigned certifies that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTÁ and NSPS, and includes Items 1,2,3,4,7(a),7(b)(1),8,9,11,13,14, and 16 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Ohio, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.





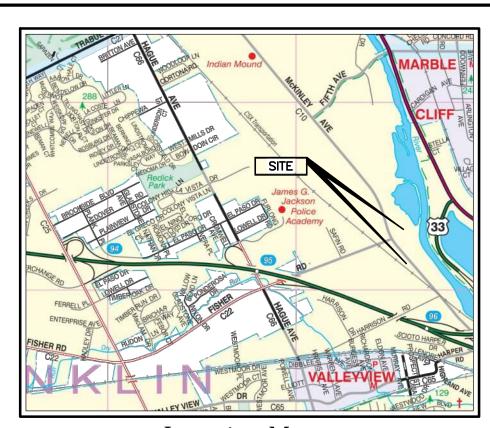


ALTA / NSPS LAND TITLE SURVEY

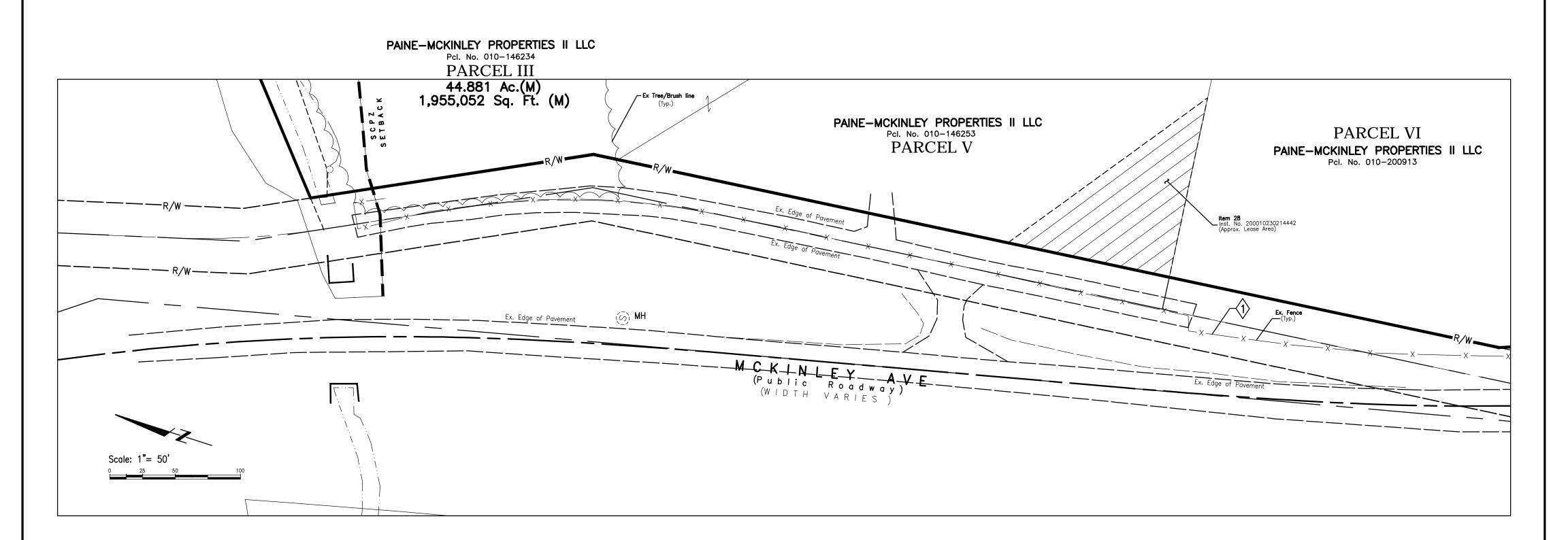
2474 McKinley Ave

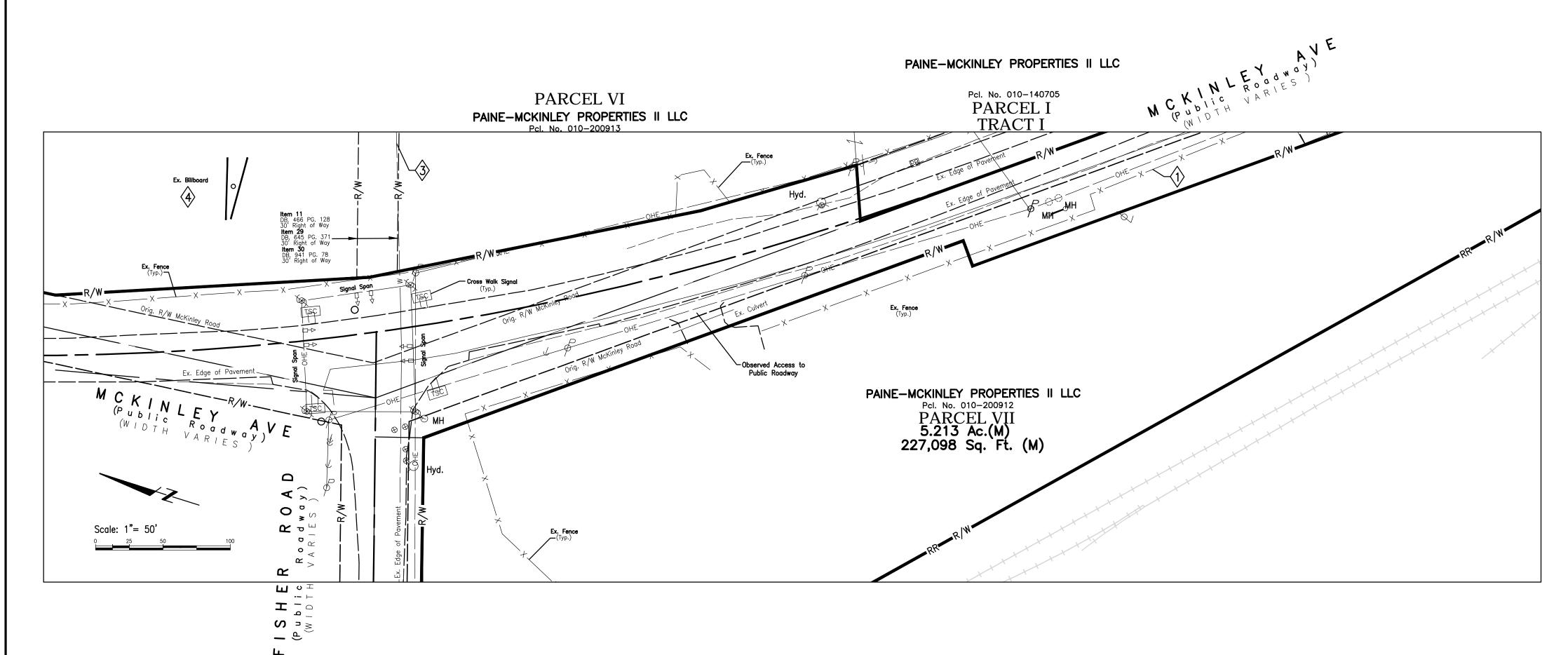
Part of that 9.46 acre tract of land conveyed to Harry A. Coleman, Robert J. and Bette L. Huston and Harry Barr, by deed of record as shown in Deed Book 3329, page 501, also being a portion of an original 32.5+ acre tract of land deeded to the City of Columbus by Louis Golden through Deed Volume 941, Page 78

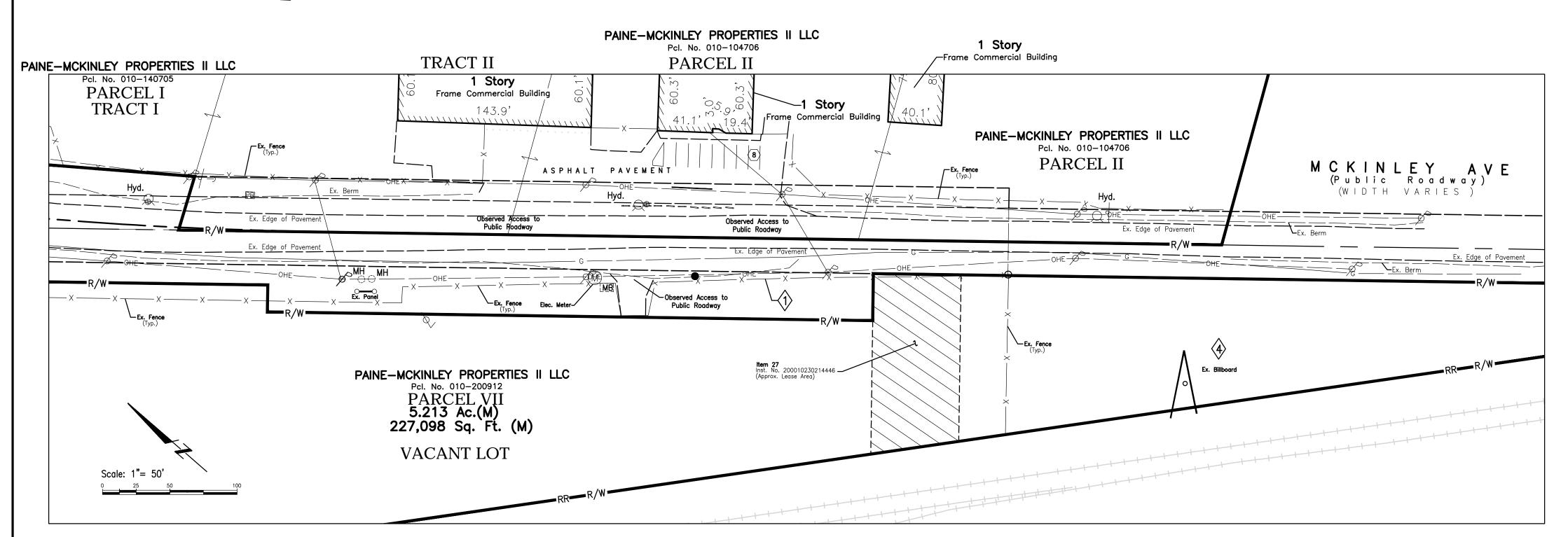
City of Columbus Franklin County, Ohio



Location Map
Not To Scale







APPENDIX D OHIO ADMINISTATIVE CHAPTER 513 AUTHORIZATION

Ohio EPA 04/04/2023

Entered Director's Journal



Mike DeWine, Governor Jon Husted, Lt. Governor Anne M. Vogel, Director

April 4, 2023

Mr. Joseph M. Reidy Thrive Companies 842 N. 4th Street #200 Columbus, OH 43215 Re: Huston Landfill - Buckeye Auto Parts

Director's Authorization

Approval

Municipal Solid Waste Landfills

Franklin County MSWL023769

Subject: Huston Landfill – Buckeye Auto Parts, Franklin County
Ohio Administrative Code (OAC) Chapter 513 Authorization

Dear Mr. Reidy:

On February 22, 2023, the Ohio Environmental Protection Agency (Ohio EPA), Division of Materials and Waste Management (DMWM), Central District Office (CDO) received a revised application titled, *OAC 3745-513-300 Request – Former McKinley Ave Landfill* (Application), dated February 21, 2023. The Application was submitted by Thrive Companies (Thrive), for the closed Huston Landfill (Facility) located at 2474 McKinley Avenue, Columbus, Ohio.

OAC Rule 3745-513-20(A) requires authorization from the director of Ohio EPA (director) before engaging in filling, grading, excavating, building, drilling, or mining on land where a solid waste facility was operated (Chapter 513 activities). The Facility operated as a solid waste landfill from the 1950s to the early 1970s. This authorization is being requested to clear and grade the property, provide a protective soil cover over waste of a minimum thickness of two (2) feet, and ultimately construct a mixed-use development, to be called WestBend, that consists of office, retail, restaurant, and multi-family residential buildings. Construction will also include the installation of utility trenches below the soil cap and the completion of soil improvements and utilization of deep foundation elements to support the structures.

Based upon a review of the Application submitted in accordance with the requirements of OAC Rule 3745-513-300, I have determined, pursuant to OAC Rule 3745-513-20(A), that the proposed activities, if conducted in accordance with the Application as submitted on January 28, 2022 and as revised through February 22, 2023, and the following conditions, will not result in violation of applicable laws and regulations, will not create a nuisance, and are unlikely to adversely affect public safety or health or the environment. Therefore, Thrive is hereby authorized to perform the activities outlined in this letter in accordance with the plans, specifications, and information submitted as part of the Application.

As part of this approval, Thrive is subject to the following conditions:

CONDITIONS

General Conditions:

- This approval grants authorization to perform activities at the Facility in accordance with the Application as submitted on January 28, 2022 and last revised on February 22, 2023. All activities shall be conducted in strict accordance with the plans, specifications, and other information submitted as part of the Application. There may be no deviation from the approved plans without prior written authorization from Ohio EPA. Any future activities at the Facility may require additional Ohio EPA approval.
- Not later than 72 hours prior to the start of the activities associated with this authorization, Thrive shall submit written notification, which specifies the anticipated date of commencement, to Ohio EPA, DMWM, CDO and Columbus Public Health.
- Access shall be allowed at the Facility to the director or a representative authorized by the director at any time to make inspections, conduct tests, or examine records and reports pertaining to the authorized activities.
- 4. All on-site activities shall be accomplished in compliance with all applicable state and federal laws and regulations pertaining to environmental protection, including but not limited to the control of air pollution, leachate, surface water run-on and run-off, and protection of ground water.

Operational Conditions:

 For the purposes of erosion control, Thrive shall use best management practices and standards as specified in the National Resources Conservation manual titled <u>Rainwater and Land Development</u> prepared by the Ohio Department of Natural Resources, Division of Soil & Water Conservation.

ORC Chapter 6111

6. Any liquids, semi-solids, industrial wastes, and other wastes regulated by ORC Chapter 6111 that are removed during intrusive activities shall be collected and securely stored until these materials are properly characterized and disposed of in accordance with ORC Chapter 6111 and the regulations promulgated thereunder.

OAC Rule 3745-513-20(D)(1)

7. This authorization shall terminate 3 years from the date of this letter if Thrive has not begun the activities authorized herein.

OAC Rule 3745-513-20(E)

Huston Landfill – Buckeye Auto Parts OAC Rule 3745-513-20(A) Page 3

8. The director may revoke this authorization if Thrive violates, or is likely to violate, any applicable law or if continued implementation of the approved plans may cause a threat to human health or safety or the environment.

OAC Rule 3745-513-350(B)

9. Any person engaging in Chapter 513 activities shall perform activities in a manner that prevents migration of leachate, explosive gas, or toxic gas from the facility.

OAC Rule 3745-513-350(C)

- No boring or excavation shall occur within the limits of waste placement unless any excavated waste is replaced within previously existing horizontal limits of waste placement or is treated or disposed of at a licensed, permitted treatment or disposal facility, in accordance with ORC Chapter 3734 and the regulations promulgated thereunder.
- If boring or excavation occurs outside the limits of waste placement at the Facility, Thrive shall not use material consisting of solid waste or hazardous waste to backfill the bored or excavated areas.
- 12. Any solid and/or hazardous waste to be removed from the Facility shall be collected and securely stored until these materials are properly characterized and disposed of in accordance with Ohio Revised Code (ORC) Chapters 3734. and 6111. and the regulations promulgated thereunder.

OAC Rule 3745-513-350(D)

13. Prior to any disposal of waste or contaminated soil from the Facility, Thrive shall submit copies of sample analysis results, the treatment or disposal method selected, and a letter of acceptance from the treatment or disposal facility, to Ohio EPA, DMWM, CDO, pursuant to OAC Rule 3745-513-350(D).

OAC Rule 3745-513-350(E)

 Upon completion of Chapter 513 activities at the Facility, Thrive shall restore the facility cap to the conditions specified in the provisions of Chapter 3734. of the Revised Code and pursuant to OAC Rule 3745-513-350(E).

OAC Rule 3745-513-370

 Not later than 60 days after completing the activities authorized through this approval, Thrive shall submit to Ohio EPA, DMWM, CDO, a certification report in accordance with OAC Rule 3745-513-370.

Special Conditions:

Huston Landfill – Buckeye Auto Parts OAC Rule 3745-513-20(A) Page 4

Upon completion of construction activities, Thrive shall submit to Ohio EPA, DMWM, CDO an explosive gas management plan as per OAC Rule 3745-27-12 that accounts for explosive gas pathways, if any, and any potential migration toward occupied structures occurring within one thousand feet of the Facility.

END OF CONDITIONS

Nothing in this letter shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations except as specified herein. This authorization shall not be interpreted to release Thrive from responsibility under ORC Chapters 3704, 3714, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, the Toxic Substances Control Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants to the environment.

You are hereby notified that this action of the director of Environmental Protection (director) is final and may be appealed to the Environmental Review Appeals Commission pursuant to Ohio Revised Code Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Treasurer, State of Ohio." The Commission, in its discretion, may reduce the fee if by affidavit it is demonstrated that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission 30 East Broad Street, 4th Floor Columbus, Ohio 43215

If you have any questions regarding this authorization, please contact Jessica Hirashima of Ohio EPA, DMWM, CDO at (614) 728-3889.

Sincerely,

Anne M. Vogel

Ame M Vagel

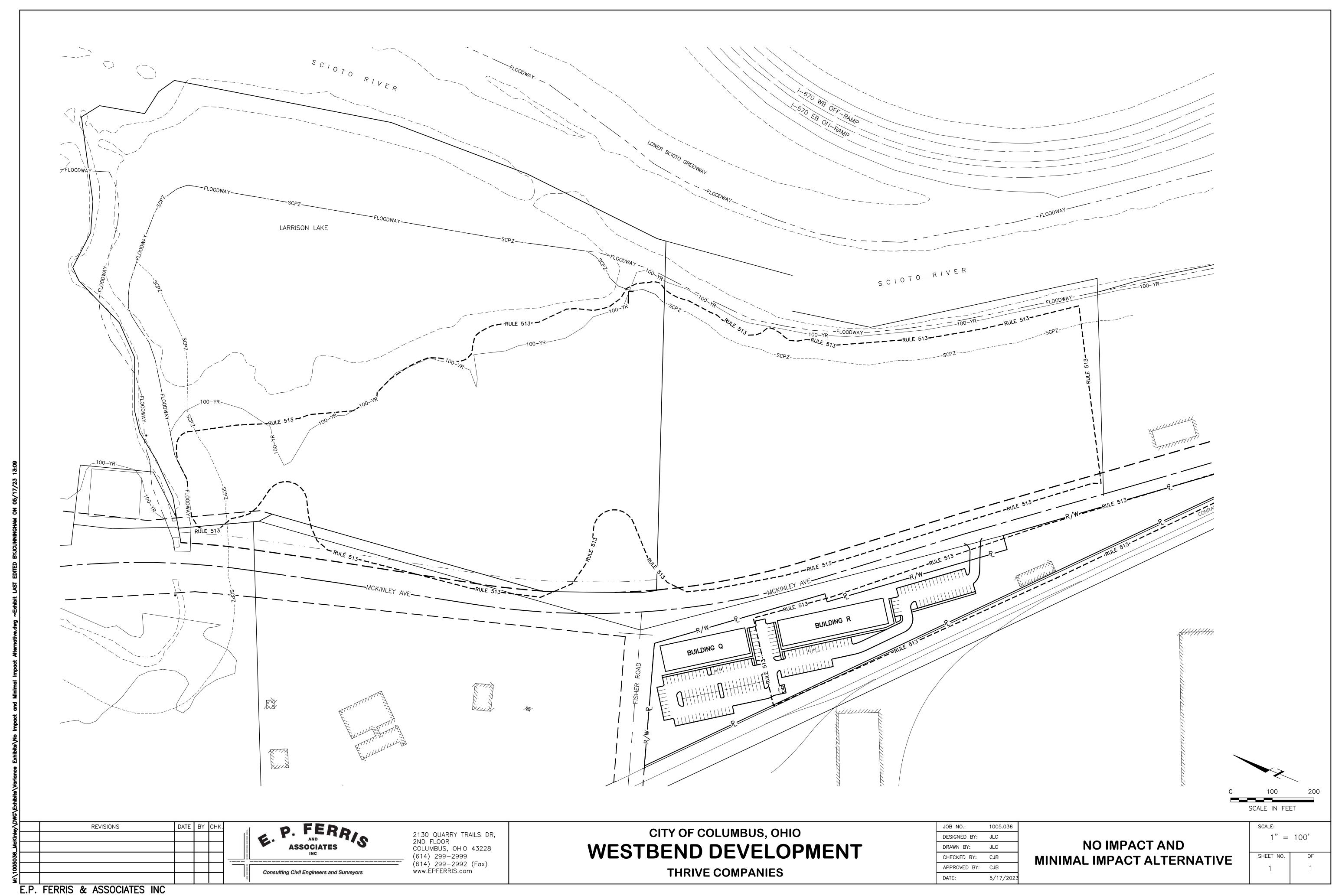
Director

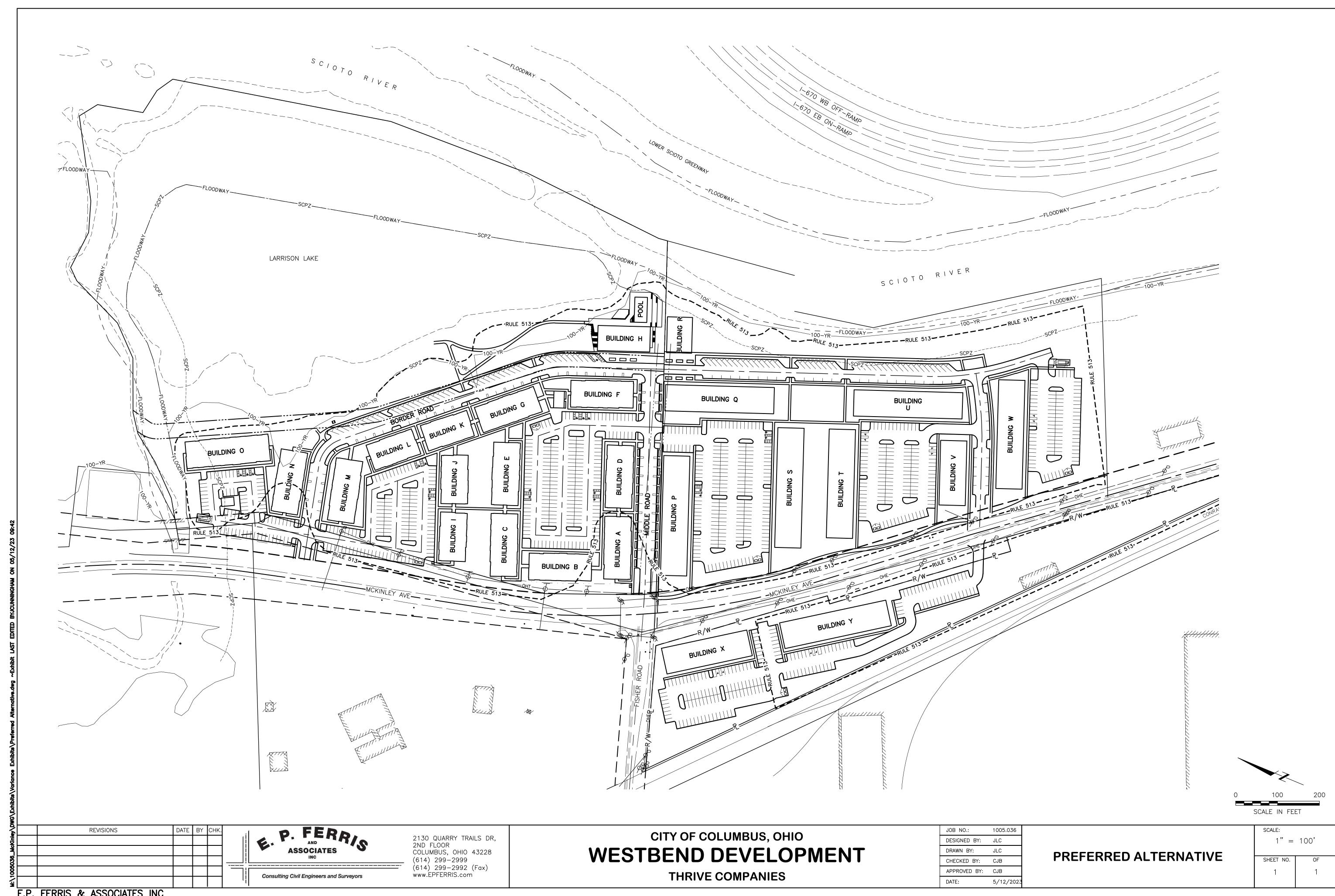
ec: Constance Livchak, DMWM, CDO

Jeremy Carroll, DMWM, CO

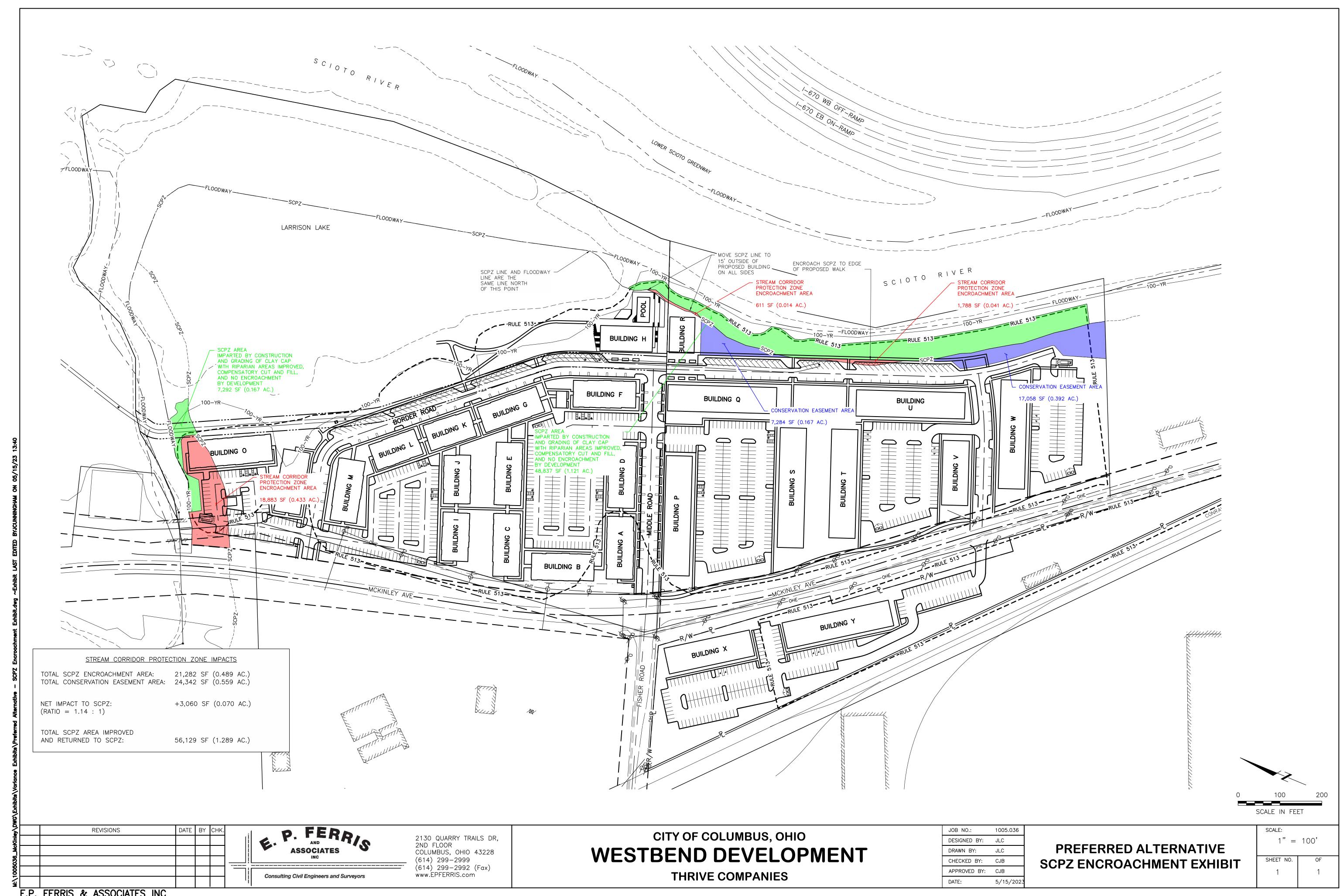
Sarah Badenhop, Columbus Public Health

APPENDIX E WESTBEND DEVELOPMENT ALTERNATIVES





APPENDIX F PREFERRED ALTERNATIVE SCPZ ENCROACHMENT EXHIBIT



APPENDIX G WESTBEND DEVELOPMENT PHASE 1 MASS EXCAVATION PLAN

WESTBEND QOZB, LLC 842 N 4TH STREET SUITE #200 COLUMBUS, OHIO 43215 CONTACT: MICHAEL AMICON PH: (614) 286-2143 EMAIL: mamicon@thrivecos.com

ZONING INFORMATION:

EXISTING ZONING: M, MANUFACTURING, Z67-005 PROPOSED REZONING: Z22-XXXX PROPOSED VARIANCE: CV22-XXX PARCEL ID NUMBERS: 010-146234, 010-146253, 010-200913, 010-146278, 010-104705, 010-104706, 010-200912

M, MANUFACTURING (Z67-005)

0.69

CIVIL ENGINEER INFORMATION:

E.P. FERRIS & ASSOCIATES 2130 QUARRY TRAILS DRIVE, 2ND FLOOR COLUMBUS, OHIO 43228 CONTACT: CHAD BUCKLEY PH: (614) 299-2999 FAX: (614) 299-2992 EMAIL: cbuckley@epferris.com

HIDDEN LAKES CONDOMINIUM

PHASE 5

PARCEL INFORMATION							
NO.	OWNER	ADDRESS	PARCEL ID.	ACREAGE (DEED)	ZONING	HEIGHT DISTRICT	
1	WESTBEND QOZB LLC	2610 MCKINLEY AVE	010-146253	29.86	M, MANUFACTURING (Z67-005)	H-35	
2	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-200913	3.75	M, MANUFACTURING (Z67-005)	H-35	
3	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-146278	0.59	M, MANUFACTURING (Z67-005)	H-35	
4	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-146234	1.54	M, MANUFACTURING (Z67-005)	H-35	
5	HIDDEN LAKE ASSOCIATION INC	MCKINLEY AVE	010-153702	16.96	M, MANUFACTURING (ANNEX1424)	H-35	
6	CITY OF COLUMBUS	MCKINLEY AVE	010-153709	64.61	M, MANUFACTURING (ANNEX5599)	H-35	
7	CITY OF COLUMBUS	2609 MCKINLEY AVE	010-146289	15.22	M, MANUFACTURING (Z67-005)	H-35	
8	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-200912	5.18	M, MANUFACTURING (Z67-005)	H-35	

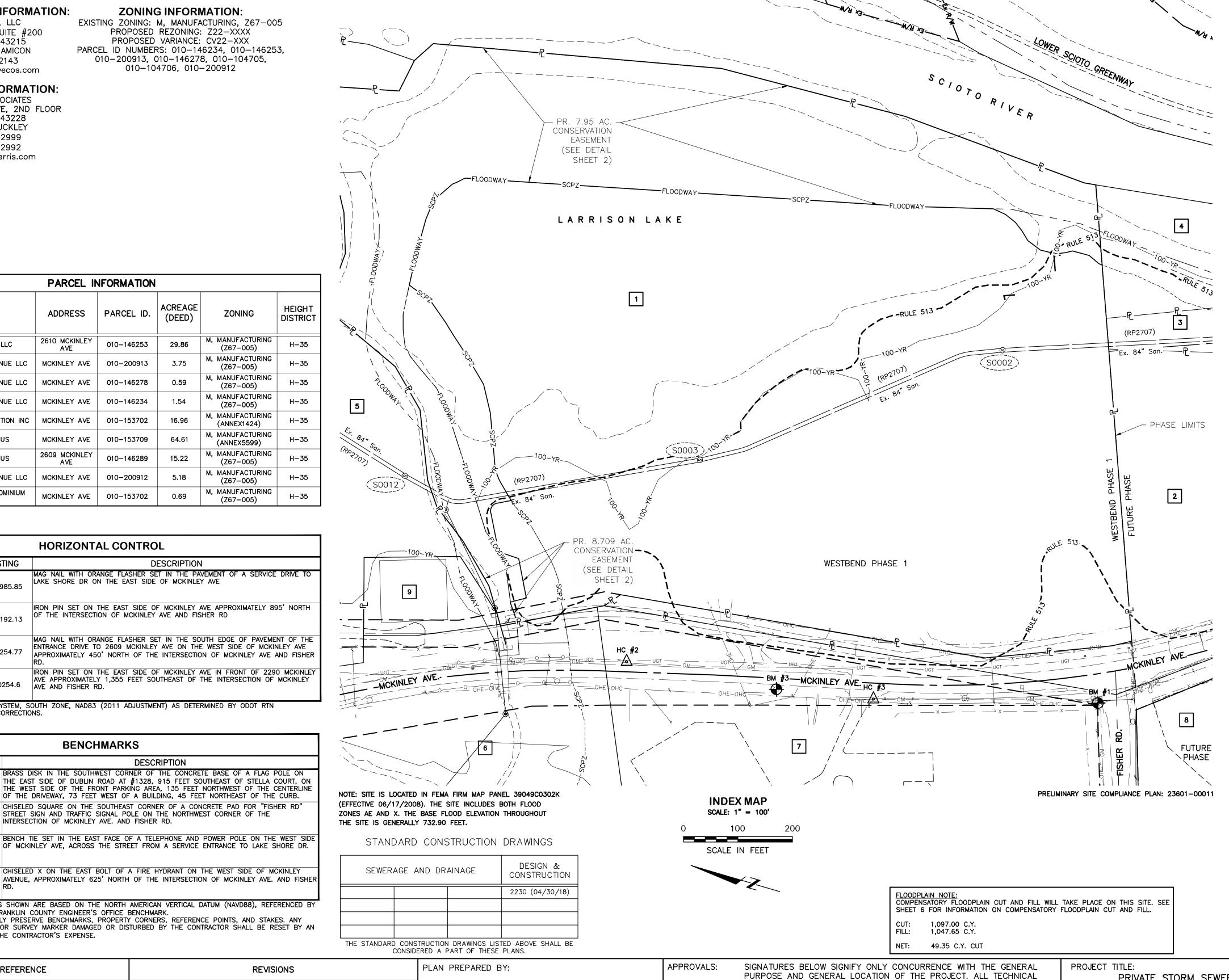
	HORIZONTAL CONTROL					
ID	NORTHING	EASTING	DESCRIPTION			
HC #1	721321.39	1808985.85	MAG NAIL WITH ORANGE FLASHER SET IN THE PAVEMENT OF A SERVICE DRIVE TO LAKE SHORE DR ON THE EAST SIDE OF MCKINLEY AVE			
HC #2	720784.82	1809192.13	IRON PIN SET ON THE EAST SIDE OF MCKINLEY AVE APPROXIMATELY 895' NORTH OF THE INTERSECTION OF MCKINLEY AVE AND FISHER RD			
HC #3	720331.13	1809254.77	MAG NAIL WITH ORANGE FLASHER SET IN THE SOUTH EDGE OF PAVEMENT OF THE ENTRANCE DRIVE TO 2609 MCKINLEY AVE ON THE WEST SIDE OF MCKINLEY AVE APPROXIMATELY 450' NORTH OF THE INTERSECTION OF MCKINLEY AVE AND FISHER RD.			
HC #4	718854.16	1810254.6	IRON PIN SET ON THE EAST SIDE OF MCKINLEY AVE IN FRONT OF 2290 MCKINLEY AVE APPROXIMATELY 1,355 FEET SOUTHEAST OF THE INTERSECTION OF MCKINLEY AVE AND FISHER RD.			

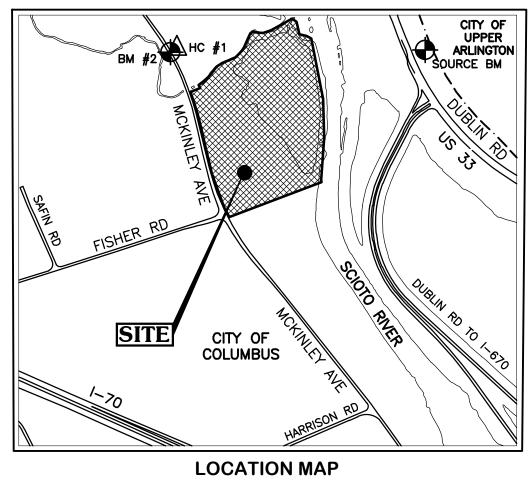
MCKINLEY AVE 010-153702

OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011 ADJUSTMENT) AS DETERMINED BY ODOT RTN OBSERVATIONS ALONG WITH RTK CORRECTIONS.

		BENCHMARKS
ID	ELEVATION	DESCRIPTION
SOURCE BM	732.30	BRASS DISK IN THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A FLAG POLE ON THE EAST SIDE OF DUBLIN ROAD AT #1328, 915 FEET SOUTHEAST OF STELLA COURT, ON THE WEST SIDE OF THE FRONT PARKING AREA, 135 FEET NORTHWEST OF THE CENTERLINE OF THE DRIVEWAY, 73 FEET WEST OF A BUILDING, 45 FEET NORTHEAST OF THE CURB.
BM #1	752.87	CHISELED SQUARE ON THE SOUTHEAST CORNER OF A CONCRETE PAD FOR "FISHER RD" STREET SIGN AND TRAFFIC SIGNAL POLE ON THE NORTHWEST CORNER OF THE INTERSECTION OF MCKINLEY AVE. AND FISHER RD.
BM #2	745.95	BENCH TIE SET IN THE EAST FACE OF A TELEPHONE AND POWER POLE ON THE WEST SIDE OF MCKINLEY AVE, ACROSS THE STREET FROM A SERVICE ENTRANCE TO LAKE SHORE DR.

ALL BENCHMARKS AND ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88), REFERENCED BY DIFFERENTIAL LEVELING FROM A FRANKLIN COUNTY ENGINEER'S OFFICE BENCHMARK. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.





NOT TO SCALE

PROJECT DESCRIPTION MASS EXCAVATION PLAN REQUIRED FOR REMEDIATION OF EXISTING LANDFILL PER OHIO ENVIRONMENTAL PROTECTION AGENCY RULE 513 AUTHORIZATION, INCLUDING COMPENSATORY CUT AND FILL WITHIN THE 100-YEAR FLOODPLAIN.

SITE DATA TABLE

DESCRIPTION	QUANTITY	UNIT
TOTAL SITE AREA (PRIVATE)	13.27	AC.
TOTAL DISTURBED AREA (ON-SITE)	13.27	AC.
DISTURBED IMPERVIOUS AREA	3.84	AC.
TOTAL DISTURBED AREA (R/W)	0.00	AC.
TOTAL DISTURBED AREA (OFF-SITE)	0.00	AC.
TOTAL DISTURBED AREA	13.27	AC.
PRE-DEVELOPED IMPERVIOUS AREA	3.84	AC.
POST-DEVELOPED IMPERVIOUS AREA	0.00	AC.

SHEET INDEX



800-362-2764 or 8-1-1 www.oups.org

31121 11132X	
TITLE SHEET	. 1
GENERAL NOTES & ESTIMATE OF QUANTITIES	2
SWPPP NOTES	3
SWPPP DETAILS	4
SWPPP AND GRADING PLAN	. 5
100 YEAR CUT AND FILL DETAILS	6
100 YEAR FLOODPLAIN ADJUSTMENT	7

CITY OF COLUMBUS

EASEMENT REFERENCE		ERENCE REVISIONS				
CITY NO.	COUNTY	RECORDER	CRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
CITT NO.	VOL.	PAGE	GRANTOR -			

CHISELED X ON THE EAST BOLT OF A FIRE HYDRANT ON THE WEST SIDE OF MCKINLEY

	PLAN PREPARED BY:
OATE	CHAD J. W.
	BUCKLEY BUCKLEY BUCKLEY CHAD TO A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A

06/01/2023

ALS:	SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENER PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNIC DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARIN THE PLANS. APPROVED FOR STORM SEWERS ONLY.

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION	DATE
ADMINISTRATOR, DIVISION OF POWER	DATE
ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE	DATE
ADMINISTRATOR, DIVISION OF WATER	DATE

PROJECT TITLE:	
PRIVATE STORM SEWER IMPROVEME	ENTS FOR
WESTBEND DEVELOPMENT	PHASE 1
MASS GRADE AND FILE	
2474 MCKINLEY AVE	
DIVISION USE ONLY	OWNER

ORM SEWER IMPROVEM DEVELOPMENT ASS GRADE AND FILE 474 MCKINLEY AVE	PHASE	1	D	DEPARTMENT IVISION OF SEV	OF PUBLIC UTILITIES WERAGE AND DRAINAGE ION USE ONLY
USE ONLY	OWNER				
	CONTRACTOR				
	INSPECTOR		SCALE:	1" = 100'	SHEET:
·			SUALE:	I = IUU	JIILLI.

SHEET: 1/7 AGREEMENT COMPLETED CONTRACT DRAWING NO. RECORD PLAN NO. RPD | CKD | CLD | CON. DR. CC-19850

BM #3

SPECIFICATIONS THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2018 EDITION, REVISION (07/01/2022), INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ÌHÁT ÁRE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:

DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102

DIVISION OF DESIGN AND CONSTRUCTION, CONSTRUCTION SECTION (614) 645-0433

INSPECTION FOR THIS PROJECT SHALL BE PROVIDED BY REPRESENTATIVES OF THE CITY OF COLUMBUS.

THE DEVELOPER SHALL DEPOSIT WITH THE CITY OF COLUMBUS THE TOTAL ESTIMATED COST OF CONSTRUCTION

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLAN.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGE BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID OF VARIOUS ITEMS.

PRIOR TO EXCAVATION, THE CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362-2764. A 48-HOUR NOTICE SHALL BE GIVEN TO THE OWNERS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND

WHERE PLANS PROVIDE FOR A PROPOSED SEWER TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED SEWER. THESE LOCATIONS ARE NOTED THUS: EXPOSE THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901.

CITY OF COLUMBUS CONTACTS CITY OF COLUMBUS

DEPARTMENT OF PUBLIC SERVICE TRAFFIC MANAGEMENT 1820 EAST 17TH AVENUE

COLUMBUS, OHIO 43219 OFFICE: (614) 645-7393

CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY

1355 MCKINLEY AVENUE BUILDING C

COLUMBUS, OHIO 43222 CONTRACTOR LINE: (614) 645-7756

CITY OF COLUMBUS

SUPPORT SERVICES DIVISION - COMMUNICATIONS 4211 GROVES ROAD

COLUMBUS, OHIO 43232 TELEPHONE: (614) 724-7047 RADIO ROOM: (614) 724-4006

CONSTRUCTION OF THIS PROJECT MAY NOT BEGIN UNTIL THE EASEMENTS INDICATED HAVE BEEN RECORDED BY

THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A REPAVING GUARANTEE.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE.

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT

CERTIFICATION OF PIPE AND STRUCTURES

ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE. STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NUMBERS 3-5 OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING, PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614) 645-6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.

GRADE CHECKS

CITY NO.

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR 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 TIMES CONVENIENT TO THE CONTRACTOR.

THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING: 1. PROPER PLACEMENT OF EACH STRUCTURE.

EASEMENT REFERENCE

PAGE

COUNTY RECORDER

2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE. 3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.

4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRANTOR

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

THE PONDING OR DETENTION AREAS SHOWN ON THE PLANS ARE A PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING AND DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING ASBUIL SURVEYS TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORMWATER CONTROL FACILITIES. AT THE COMPLETION OF CONSTRUCTION, THE OWNER/DEVELOPER SHALL FIELD SURVEY THE STORMWATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.

IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT, WITH RED SIGNATURES, SHALL BE KEPT ONSITE AT ALL TIMES.

WHEN OCCUPYING OR EXCAVATING WITHIN PUBLIC RIGHT-OF-WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (614-645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANY TIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING HTTP://PORTAL.COLUMBUS.GOV/PERMITS/. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT, WITH RED SIGNATURES, SHALL BE KEPT ONSITE AT ALL TIMES.

WHEN OCCUPYING OR EXCAVATING WITHIN PUBLIC RIGHT-OF-WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV.

CONTRACTOR TO PROVIDE AGGREGATE SIEVE ANALYSIS FROM THE SUPPLIER TO COLUMBUS INSPECTOR FOR REVIEW. AGGREGATE PROVIDED MUST MEET CITY OF COLUMBUS SPECIFICATION ITEM 703.

MISCELLANEOUS NOTES

CONTRACTOR IS RESPONSIBLE FOR REVIEWING GEOTECHNICAL REPORT SPECIFIC TO THE PROJECT SITE AND FOLLOWING THE SITE PREPARATION RECOMMENDATIONS, INCLUDING THE REMOVAL AND MITIGATION OF UNSUITABLE MATERIAL. IF A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THE PROJECT SITE, CONTRACTOR SHALL TAKE ALL RISKS ASSOCIATED WITH SUBSURFACE FINDINGS.

UTILITIES SHOWN IN THIS PLAN SET ARE AS TAKEN FROM OUPS MARKINGS, EXISTING RECORD MAPS AND OTHER INFORMATION MADE AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN THE BASE BID

ALLOWANCES TO DETERMINE EXISTING UTILITY LOCATIONS AND EXACT ROUTING

SEWER PERMIT OFFICE, 111 N. FRONT STREET, 1ST FLOOR, (614) 645-7490.

PRIOR TO DEMOLITION PERMIT, A PERMIT FOR SANITARY LATERALS TO BE CAPPED OFF MUST BE OBTAINED FROM 111 N. FRONT STREET, 1ST FLOOR, (614) 645-7490.

SEWER CAPOFF PERMIT IS REQUIRED PRIOR TO ISSUANCE OF DEMOLITION PERMIT. OBTAIN A CAPOFF PERMIT FROM

CONNECTIONS TO SANITARY CANNOT BE MADE UNTIL PERMIT IS OBTAINED FROM SEWER PERMIT OFFICE AT 111 N. FRONT STREET, 1ST FLOOR, (614) 645-7490.

PROPOSED PUBLIC SIDEWALK TO BE INSTALLED PER CITY OF COLUMBUS STD. DRAWING 2300.

FOR THE DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OPUS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PRERFORMMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.08 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER. CITY OF COLUMBUS, OHIO.

PAVEMENT CUTTING, SAWING, AND EXCAVATION OPERATIONS NOTE ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT—CUTTING OPERATIONS ON CITY OF

COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO

WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

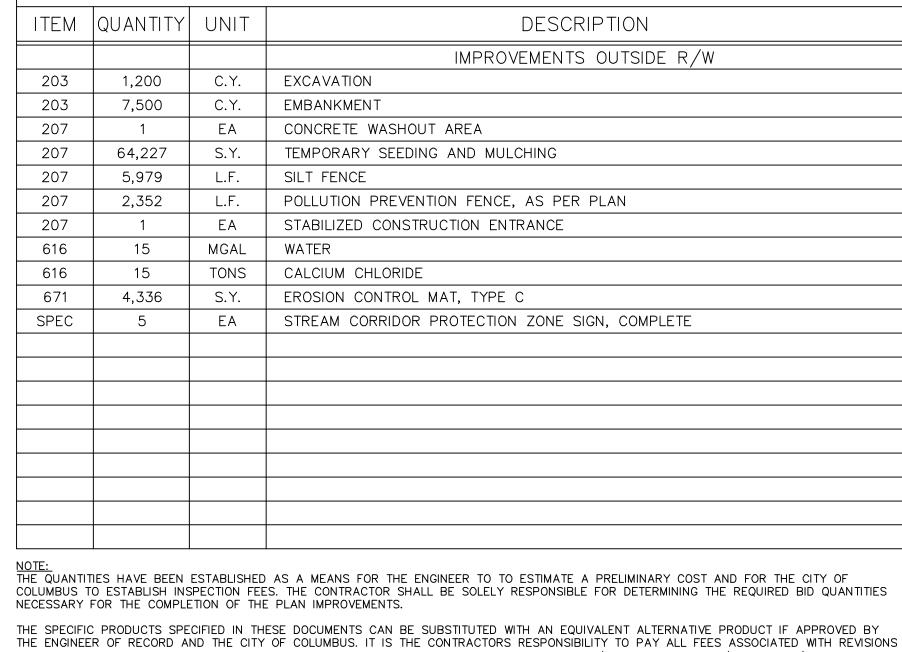
THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

PUBLIC TREE PRESERVATION NOTE

ALL PUBLIC TREES AND THE GROUND BELOW THEIR RESPECTIVE DRIP LINES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PRESERVED UNLESS APPROVAL TO REMOVE OR PRUNE IS GIVEN IN WRITING BY COLUMBUS RECREATION & PARKS (CRPD)/CITY FORESTER OR IF THE PUBLIC TREE REMOVAL HAS BEEN DESIGNATED ON THE APPROVED FINAL SITE COMPLIANCE PLAN. TREES APPROVED FOR REMOVAL BY EITHER OF THE CRPD/CITY FORESTER SHALL BE PAID FOR UNDER CMSC ITEM 201. CLEARING AND GRUBBING, UNLESS OTHERWISE PROVIDED FOR BY UNIT PRICE BID UNDER ITEM 201. THE CONTRACTOR SHALL PROTECT TREES NEAR OR ADJACENT TO THE WORK AREA TO AVOID DAMAGE TO ALL TREES THAT ARE TO REMAIN. ALL TREES REMOVED SHALL INCLUDE STUMP REMOVAL TO EIGHTEEN (18) INCHES BELOW GRADE. ALL CLEARING AND GRUBBING DONE ON CRPD PROPERTY, RIGHT-OF-WAY, OR ANY CITY OF COLUMBUS PROPERTY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE ROOT ZONE OF EXISTING PUBLIC TREES. RESTRICTED EQUIPMENT ACCESS ROUTES SHALL BE COORDINATED WITH CRPD INSPECTOR KEITH MAY, AT (614) 645-3014 OR KAMAY@COLUMBUS.GOV BEFORE WORK BEGINS. TEMPORARY PAVING MATERIALS, SUCH AS PLYWOOD, LUMBER OR RUBBER MATTING, SPREAD OVER THE ROOT ZONE OF PUBLIC TREES MAY BE REQUIRED TO PREVENT COMPACTION. IF A PUBLIC TREE NEEDS TO BE REMOVED, THE CONTRACTOR SHALL PROVIDE A TREE MITIGATION PLAN TO THE CITY FORESTRY SECTION [(614) 724-1276] AND REFER TO THE CRPD TREE MITIGATION PLAN GUIDANCE, ANSI A300 AND/OR CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE REPLACEMENT STANDARDS.

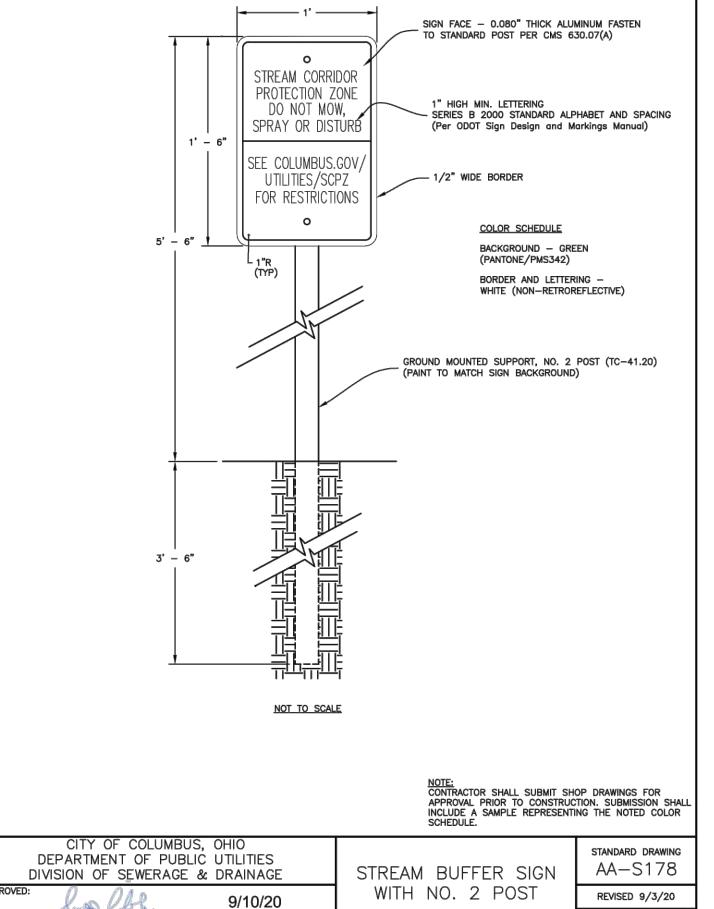
PUBLIC TREE PROTECTION NOTE

A TREE PROTECTION PLAN WITH A DRAWING OF ANY WORK LOCATED WITHIN THE DRIP LINE OF A PUBLIC TREE SHALL BE INCLUDED IN THE APPROVED FINAL SITE COMPLIANCE PLAN (FSCP). REFER TO CRPD STANDARD DRAWING FOR TREE PROTECTION. CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, FUEL, EQUIPMENT OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED, OR PARKED WITHIN THE DRIPLINE OF PUBLIC TREES. ALL TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES. TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE "BEST MANAGEMENT PRACTICES - MANAGING TREES DURING CONSTRUCTION" A COMPANION PUBLICATION TO ANSI A300 PART 5. IF THERE IS A QUESTION WHETHER A TREE OR NOT NEEDS TO BE PROTECTED, THE CONTRACTOR MUST CONTACT THE CITY FORESTRY SECTION AT (614) 724-1276. FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE CONTRACTOR REIMBURSING CITY FORESTRY FOR THE COST OF ANY AND ALL DAMAGE AS DETERMINED BY THE CURRENT ANSI A300/CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.



ESTIMATE OF QUANTITIES

TO THE PLANS, ENGINEERING DRAWING OR CALCULATION CHANGES, AND JURISDICTIONAL REVIEW (LOCAL, STATE, AND/OR FEDERAL) IF THE PLANS HAVE BEEN SIGNED BY THE CITY OF COLUMBUS OR ARE SUBSTANTIALLY COMPLETE/REVIEWED.



DATE

SSES MANAGER

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FULL SITE CONSERVATION EASEMENT DETAIL

SCALE: 1" = 400'

	REVISIONS		PLAN PREPARED BY:	
NO.	DESCRIPTION	APPROVAL/DATE		
				GENERAL NOTES
				JENEIVAL INOTES

PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE MASS GRADE AND FILL

PAGE

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

2474 MCKINLEY AVE						
DIVISION USE ONLY	OWNER	!				
	CONTR	ACTOR				
	INSPEC	TOR			SCALE: NONE	SHEET: 2/7
	AGREE	EMENT	COMP	PLETED	SOMEE. WORLE	2, ,
	RPD CKD		CLD CON. DR.		CONTRACT DRAWING NO.	RECORD PLAN NO.
					CC-19850	

E.P. FERRIS & ASSOCIATES INC

PROJECT NO.: 1005.036

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS, PROJECT ENGINEER AND/OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614) 645-6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.

THE NPDES PERMIT HOLDER 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 EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A 1/2" STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIMES.

EROSION/SEDIMENT/DUST CONTROL CONSTRUCTION PRACTICES UTILIZE EROSION AND SEDIMENT CONTROL PRACTICES PER THE SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL. EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL THE CONSTRUCTION AREA HAS BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL CONSULT WITH SOIL CONSERVATION SERVICE AND THE ENGINEER CONCERNING PROPER EROSION AND SEDIMENT PRACTICES.

STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW

FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.

REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION: PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.

BACKFILL TRENCHES IMMEDIATELY AFTER COMPACTION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE OPENED.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM, WATERWAYS (NATURAL OR MAN-MADE), OR ADJACENT PRIVATE PROPERTY. CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS OR WATERWAYS (NATURAL OR MAN-MADE) SHALL REQUIRE EROSION CONTROL MEASURES, SUCH AS SILT FENCE AND STRAW BALE BARRIERS, TO PREVENT SILT FROM ENTERING THE STORM DRAIN, WATERWAYS (NATURAL OR MAN-MADE) OR ADJACENT PRIVATE PROPERTY.

ALL EROSION/SEDIMENT/DUST CONTROL PRACTICES SHALL BE PERFORMED AS RECOMMENDED BY THE SOIL CONSERVATION SERVICE PUBLICATION "ODNR'S RAINWATER AND LAND DEVELOPMENT MANUAL".

STABILIZATION OF DENUDED AREAS

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS OF DISTURBANCE IF THEY ARE TO REMAIN SUBSTANTIALLY UNWORKED FOR MORE THAN 14 DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WHICH WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN

STORM WATER RUNOFF FROM DENUDED AREAS SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

<u>CONSTRUCTION ACCESS ROUTES</u>
MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES, EQUIPMENT, AND WORKERS IS

NO SOIL, ROCK, DEBRIS OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LAND SLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE OR ADEQUATELY ADDRESS THE PROBLEMS.

<u>ESTABLISHMENT OF PERMANENT VEGETATION</u> PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE

ADVERSE WEATHER CONDITIONS. SEEDING AND MULCHING

WITH ITEM 659.

TEMPORARY SEEDING SHALL CONSIST OF ANNUAL RYE-GRASS AS PER ITEM 207. SEED AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH ITEM 659. PERMANENT SEEDING AND MULCHING SHALL BE TREATED IN ACCORDANCE

<u> TIMING OF SEDIMENT-TRAPPING PRACTICES</u>

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY. SETTLING FACILITIES, PERIMETER CONTROLS AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

NOTE: LOCATIONS SHOWN FOR SEDIMENT FILTERING BARRIERS ARE SUGGESTED LOCATIONS; THE FINAL AND MOST APPROPRIATE LOCATION FOR THESE DEVICES SHALL BE APPROVED BY THE ENGINEER, BASED ON SITE CONDITIONS AND OBSERVED TOPOGRAPHY. PROPER IMPLEMENTATION, INSTALLATION, MAINTENANCE, AND REPAIR OF SEDIMENT FILTERING BARRIERS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

OUTFLOWS FROM DEWATERING OPERATIONS ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE

EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH A DISCHARGE BY DIVERTING THE WATER THROUGH ONE OR MORE FILTER FENCES. PRIOR TO PUMPING, THE ENGINEER SHALL APPROVE THE INSTALLATION OF THE FILTER FENCE.

ADDITIONAL_CONTROLS

THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO OTHER SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE IS DISCHARGED INTO ANY STORM WATER FLOW.

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 PROCEDURES, ACTIVITIES, OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO:

- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
- 3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM DRAINS.
- 4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, 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.
- 5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.
- 6. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED
- 8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY. PUBLIC OR PRIVATÉ, NOT PREVIOUSLY SPECIFIED BY THE ENGINEER FOR SAID PURPOSES.

MAINTENANCE AND INSPECTION

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL DEVICES REQUIRED BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTION SHALL BE PERFORMED AS PRESCRIBED IN THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR, IN THE PRESENCE OF THE ENGINEER ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER ANY RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24 HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORM WATER DISCHARGES ASSOCIATED WITH THE PROJECT: EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/ SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURÉS ARE REQUIRED.

ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER, IF REQUESTED, WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFICATION OF ANY INCIDENTS OF NON-COMPLIANCE.

POLLUTION PREVENTION PLAN AVAILABILITY AND UPDATES AVAILABILITY OF THE POLLUTION PREVENTION PLAN ON-SITE. THE OWNER SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND AMENDMENTS TO THE POLLUTION PREVENTION PLAN.

STREET CLEANING, AS NEEDED, IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND MANUAL (IF NECESSARY) REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE 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 COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.

DIAMETER NOW (OEPA). THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL

COLUMBUS SWPPP PLANS AND CONSTRUCTION SITES.

STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN

ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.

THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT.

THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS. **EROSION AND SEDIMENTATION CONTROL NARRATIVE**

OEPA NOTICE OF INTENT PERMIT NUMBER: 4GC08870*AG

PLAN DESIGNER: E.P. FERRIS & ASSOCIATES 2130 QUARRY TRAILS DRIVE, 2ND FLOOR

COLUMBUS, OH 43212 PHONE: 614-299-2999 FAX: 614-299-2992 EMAIL: cbuckley@epferris.com

OWNER/DEVELOPER: 842 NORTH FOURTH STREET, SUITE #200 COLUMBUS, OH 43215 CONTACT: MICHAEL AMICON

PH: 614-286-2143

THE EXISTING SITE CONSISTS OF A FORMER JUNK YARD BORDERED ON THE WEST BY MCKINLEY AVENUE, THE EAST BY THE PROJECT DESCRIPTION: SCIOTO RIVER, AND THE NORTH BY LARRISON LAKE. CONSTRUCTION ACTIVITIES WILL INCLUDE THE CONSTRUCTION OF MULTI-FAMILY BUILDINGS, ROADWAYS, AND DRIVEWAYS. THE OVERALL DISTURBED AREA CONSISTS OF APPROXIMATELY 13.27 AC.

THE SITE GENERALLY DRAINS TO THE WEST AND NORTH TO LARRISON LAKE AND ULTIMATELY THE SCIOTO RIVER, WHICH IS SITE DRAINS TO: THE NEAREST WATER COURSE

EXISTING SITE CONDITIONS: THE SITE SLOPES GENERALLY FROM THE SOUTH TO THE NORTH AND THE WEST TO THE EAST, TOWARDS LARRISON LAKE AND THE

THE EXISTING ADJACENT DEVELOPMENTS HAVE BEEN TAKEN INTO ACCOUNT FOR THE STORM SYSTEM AND FLOOD ROUTING ADJACENT AREAS: FOLLOWING EXISTING DRAINAGE PATH.

SCIOTO RIVER CRITICAL AREAS:

SITE CONTACT:

EROSION CONTROL MEASURES: EROSION AND SITE RUN-OFF WILL BE CONTROLLED THROUGH THE USE OF FILTER FABRIC FENCE PLACED AT LOW LYING AREAS AROUND THE SITE AS WELL AS EROSION CONTROL MATTING ON SLOPES 4:1 OR GREATER.

SEDIMENT CONTROL MEASURES: SEDIMENT WILL BE CONTROLLED THROUGH THE USE OF TEMPORARY SEDIMENT BASINS LOCATED

PERMANENT STABILIZATION: ALL DISTURBED AREAS ARE TO BE SEEDED. SEE SHEET 2 FOR SEEDING NOTES.

MAINTENANCE: ALL EROSION CONTROL DEVICES WILL BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED DEVICES WILL BE REPAIRED AND/OR REPLACED IMMEDIATELY OR AS NECESSARY.

CONSTRUCTION SEQUENCE: 1. INSTALL ROCK CONSTRUCTION ENTRANCE.

INSTALL PERIMETER POLLUTION PREVENTION FENCE ALONG THE EDGES OF THE SITE AS PER PLAN.
INSTALL INTERMITTENT SILT FENCE, STRAW WATTLES, FILTER SOCKS, DIVERSION SWALES, AND DITCH CHECK DAMS THROUGHOUT THE SITE AS PER PLAN.

CLEAR & GRUB AS NECESSARY FOR THE INSTALLATION OF EROSION & SEDIMENT CONTROL DEVICES.

5. BEGIN MASS EXCAVATION ACTIVITIES. 6. PERMANENTLY STABILIZE/SEED & MULCH OR SOD DISTURBED AREAS PER SPECIFICATION.

7. NOTICE OF INTENT (NOI) TO STAY OPEN THROUGH FINAL CONSTRUCTION.

WESTBEND QOZB, LLC 842 NORTH FOURTH STREET, SUITE #200 COLUMBUS, OH 43215

CONTACT: MICHAEL AMICON PH: 614-286-2143 EMAIL: mamicon@thrivecos.com

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

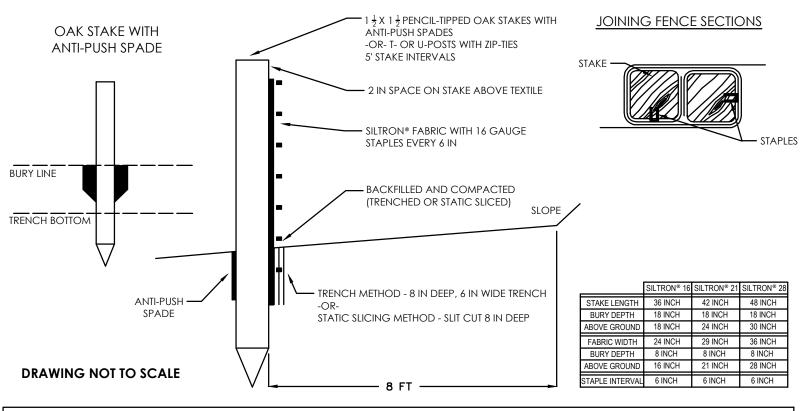
TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREA 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

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL

STANDARD CONSTRUCTION DETAIL SILTRON® POLLUTION PREVENTION FENCE



WOOD STAKES SHALL BE A 1 ½ IN X 1 ½ IN PENCIL-TIPPED OAK STAKE AND **MUST** INCLUDE INTEGRATED ANTI-PUSH SPADE -OR- EQUIVALENT STEEL (U OR T) STAKE, STAKES PLACED AT 5 FT INTERVALS. FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE, BOTH ENDS OF FENCE SHALL BE EXTENDED AT LEAST 8 FT UP SLOPE AT 45 DEGREES TO MAIN FENCE SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE. ANY SECTION OF FENCE WHICH HAS BEEN COMPROMISED THROUGH PHYSICAL DAMAGE OR IS BLINDED WITH SEDIMENT OR HYDROCARBONS SHALL BE

IMMEDIATELY REPLACED WITH SILTRON, ROCK FILTER OUTLET CONFIGURATION, OR FILTRER SOCK (COMPOST OR SWITCHGRASS).

fence shall be removed and properly disposed of when tributary area is permanently stabilized.

IF UNDERCUTTING OCCURS, FILL MUST BE ADDED TO TRENCH AND AREA RE-COMPACTED.

PARAMETERS	REGULATORY MINIMUMS			
Fabric Construction Type	3-layer needle-punched composite	3-layer needle-punched composite		
Hydrocarbon Retention	5 oz per square foot	5 oz per square foot		
	Fabric Width			
16 inch above ground, 8 inch bury	24 inches	24 inches (Siltron®16)		
21 inch above ground, 8 inch bury	29 inches	29 inches (Siltron® 21)		
28 inch above ground, 8 inch bury	36 inches	36 inches (Siltron®28)		
Fabric Thickness (ASTM 5199)	7.50 mm ± 10% (295 mils)	7.95 mm ± 10% (313 mils)		
Fabric Weight, oz/yd ²	30 oz/yd²	33.7 oz/yd²		
Gr	ab Tensile (ASTM D 463	32)		
MD	300 lbs	405 lbs		
TD	200 lbs	210 lbs		
EI	ongation (ASTM D 4632)		
MD	25% at failure (300 lbs)	21% at failure (405 lbs)		
TD	25% at failure (200 lbs)	8.7% at failure (210 lbs)		
Puncture Strength (ASTM D 4833)	200 lbs	224 lbs		
Trap	ezoidal Tear (ASTM D 4	-533)		
MD	125 lbs	142 lbs		
TD	125 lbs	135 lbs		
Mullen Burst Strength (ASTM D 3786, modified)	700 lbs	759 lbs		
Apparent Opening Size (ASTM D 4751)	.120 mm (non-woven composite)	.142 mm (non-woven composite)		
Permittivity (ASTM D 4491)	45 gpm/ft ²	46.2 gpm/ft ²		
UV Stability (ASTM D 4355)	100%	100%		
Filtering Efficiency and Flow rate (ASTM 5141)				
Clear Water Rate, gpm/ft²	15 gpm/ft²	17.8 gpm/ft ²		
Silty Clay Rate	1.5 gpm/ft ²	1.51 gpm/ft²		
Filtering Efficiency and Flow rate (ASTM 5141)	96.0%	97.9%		

Slope %	Siltron 16	Siltron 21	Siltron 28	Siltron 3
2	700	1000	1300	1750
5	375	500	650	875
10	240	300	400	550
15	200	250	350	475
20	140	200	250	335
25	100	150	180	245
30	75	100	125	175
35	60	85	100	135
40	50	75	90	120
45	45	60	80	110
50	40	50	60	80

	EASEMENT REFERENCE			REVISIONS	PLAN PREPARED BY:		
OLTY, NO	COUNTY	RECORDER	ODANTOD	NO.	DESCRIPTION	APPROVAL/DATE	
CITY NO.	VOL.	PAGE	GRANTOR				

SWPPP NOTES

PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 MASS GRADE AND FILL 2474 MCKINLEY AVE

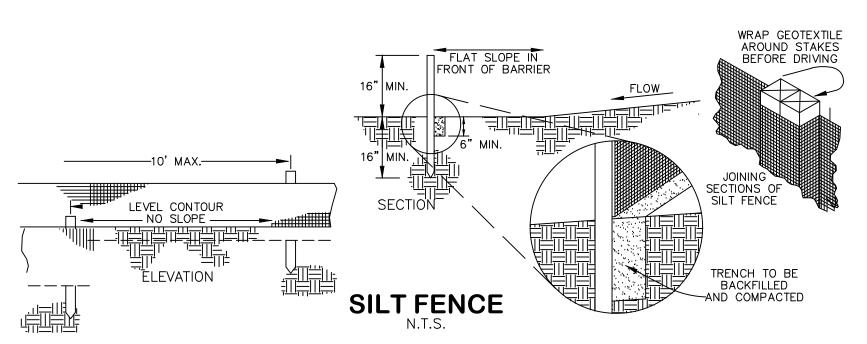
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

DIVISION USE ONLY	OWNER					
	CONTR	ACTOR				
	INSPEC	TOR			SCALE: NONE	SHEET: 3/7
	AGREE	MENT	COMP	LETED	OG/ALL. HOHE	3,7
	RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
					CC-19850	

PROJECT NO.: 1005.036 E.P. FERRIS & ASSOCIATES INC

STABILIZED CONSTRUCTION ENTRANCE

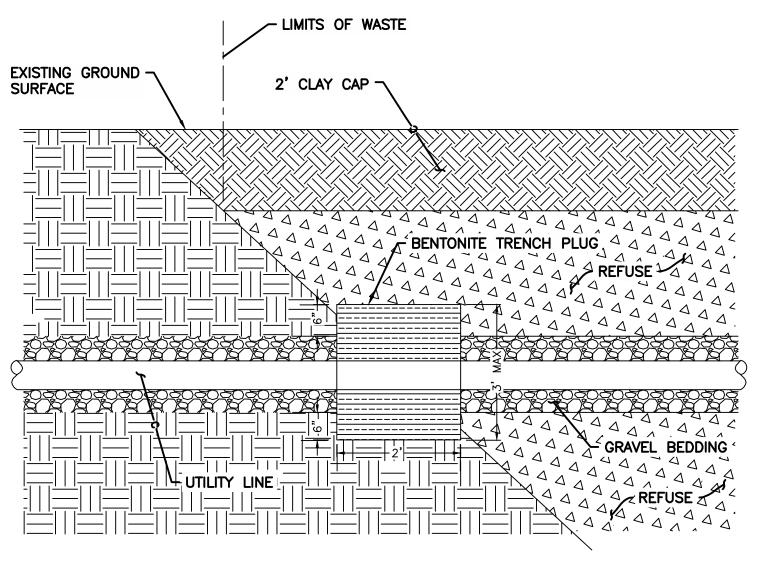
- 1. STONE SIZE USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - A MINIMUM OF 100', BUT MAY BE LONGER AS DETERMINED BY THE CITY OF COLUMBUS.
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES. 4. WIDTH - TWENTY (20) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS
- OR EGRESS OCCURS. MAY BE WIDER AS DETERMINED BY THE CITY OF COLUMBUS. 5. FLARES OR RADII SHALL BE INSTALLED AT THE ENTRANCE IF THE PUBLIC ROADWAY SPEEDS AND/OR TRAFFIC CONDITIONS WARRANT IT, OR IF DIRECTED BY C.O.C. PERSONNEL.
- 6. FILTER FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. 7. 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 SHALL BE PERMITTED.
- 8. CULVERT PIPE 12" MINIMUM PIPE IS REQUIRED IF A STORM DITCH OR SWALE EXISTS AT THE PROPOSED ENTRANCE.THE CULVERT PIPE INVERTS SHALL MATCH THE EXISTING DITCH AT BOTH SIDES OF 9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PROTECT THE
- 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 RIGHT-OF-WAY MUST BE REMOVED
- 10. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE
- 11. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. 12. MAINTENANCE OF TRAFFIC SIGNAGE SHALL BE A 48" x 48" CONSTRUCTION ENTRANCE AHEAD, 200' (ADEQUATE SIGHT DISTANCE SHALL BE CONSIDERED) BEFORE THE ENTRANCE ON BOTH SIDES OF THE ROAD OR AS APPROVED BY THE C.O.C. TEMPORARY TRAFFIC CONTROL COORDINATOR. YOU SHALL CALL THE TTCC @ (614) 645-6269 OR 645-5845 BEFORE STARTING THE ENTRANCE WORK.



- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPPSLOPE LAND DISTURBANCE
- 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE PLACED BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP PRIOR TO DRIVING INTO THE GROUND, SEE DETAIL.
- 10. MAINTENANCE: SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC, FLOWS AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING OPTIONS SHALL BE PERFORMED:

- 10.1. THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 10.3. OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- CRITERIA FOR SILT FENCE MATERIALS:
- FENCE POST: THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS SHALL BE 2-BY-2-INCH NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. POSTS SHALL BE FREE OF KNOTS, SPLITS, AND OTHER VISIBLE IMPERFECTIONS THAT WOULD WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FEET. POSTS SHALL BE DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- 2. SILT FENCE FABRIC: SEE CHART BELOW.
- NOTES: THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. THE USE OF COMPOST FILLER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON CITY OF POWELL PLANS AND CONSTRUCTION SITES.
 - STRAW WATTLES OR COMPOST ROLLS HAVE A MINIMUM DIAMETER OF 12"

FABRIC PROPERTIES	VALUES	TEST METHOD
Minimum Tensile Strength	120 lbs. (535 N)	ASTM D 4632
Maximum Elongation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 lbs (180 N)	ASTM D 4533
Apparent Opening Size	0.84 mm	ASTM D 4751
Minimum Permittivity	1X10-2 sec1	ASTM D 4491
UV Exposure Strength Retention	70%	ASTM G 4355

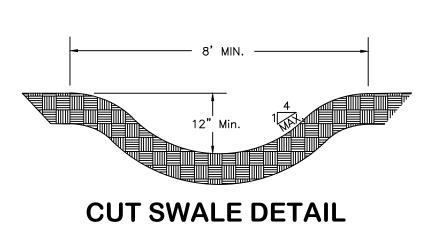


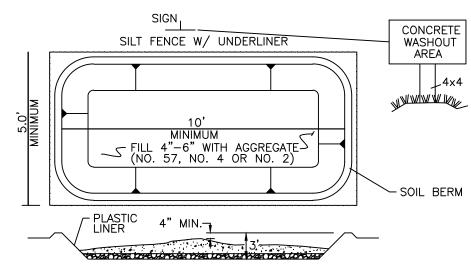
PLAN PREPARED BY:

- 1. BENTONITE PLUG TO BE KEYED INTO SURROUNDING MATERIAL A MINIMUM OF 6 INCHES.
- 2. HYDRATE BENTONITE CHIPS IN 6 IN. MAX. LIFTS AND PER MANUFACTURER'S RECOMMENDATIONS.
- 3. WHERE UTILITIES ARE TWO PER TRENCH, BENTONITE PLUG TO BE EXTENDED TO ENCOMPASS BOTH.

BENTONITE TRENCH PLUG

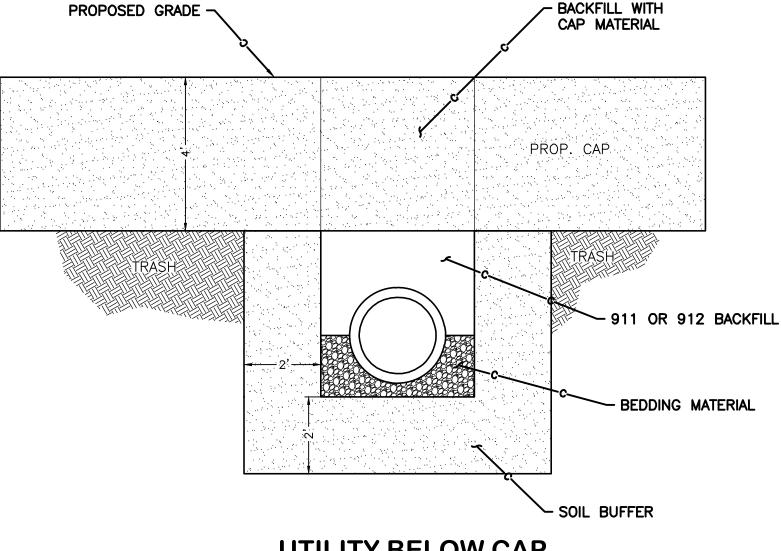
N.T.S.



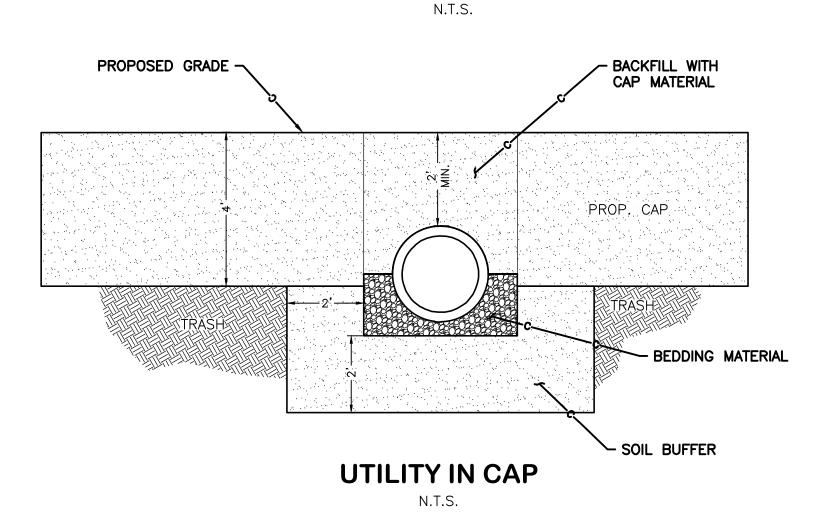


CONCRETE WASHOUT AREA

THE USE OF PORTABLE CONCRETE WASHOUT UNITS IN APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.



UTILITY BELOW CAP



AS PER PLAN: UTILITY IN CAP

SOME OF THE UTILITY LINES MAY BE INSTALLED BELOW THE EXISTING SOIL CAP LAYER. WHERE THIS OCCURS, THE TRENCHES WILL BE OVER EXCAVATED AND A MINIMUM OF 2 FEET OF CLEAN, COMPACTED FILL PLACED PRIOR TO THE INSTALLATION OF THE UTILITY LINE.

BENTONITE TRENCH PLUGS WILL BE INSTALLED WHERE UTILITY TRENCHES ENTER THE SITE AND ARE EXCAVATED BELOW THE SOIL CAP.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER		ODANTOD	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE	GRANTOR			

SWPPP DETAILS

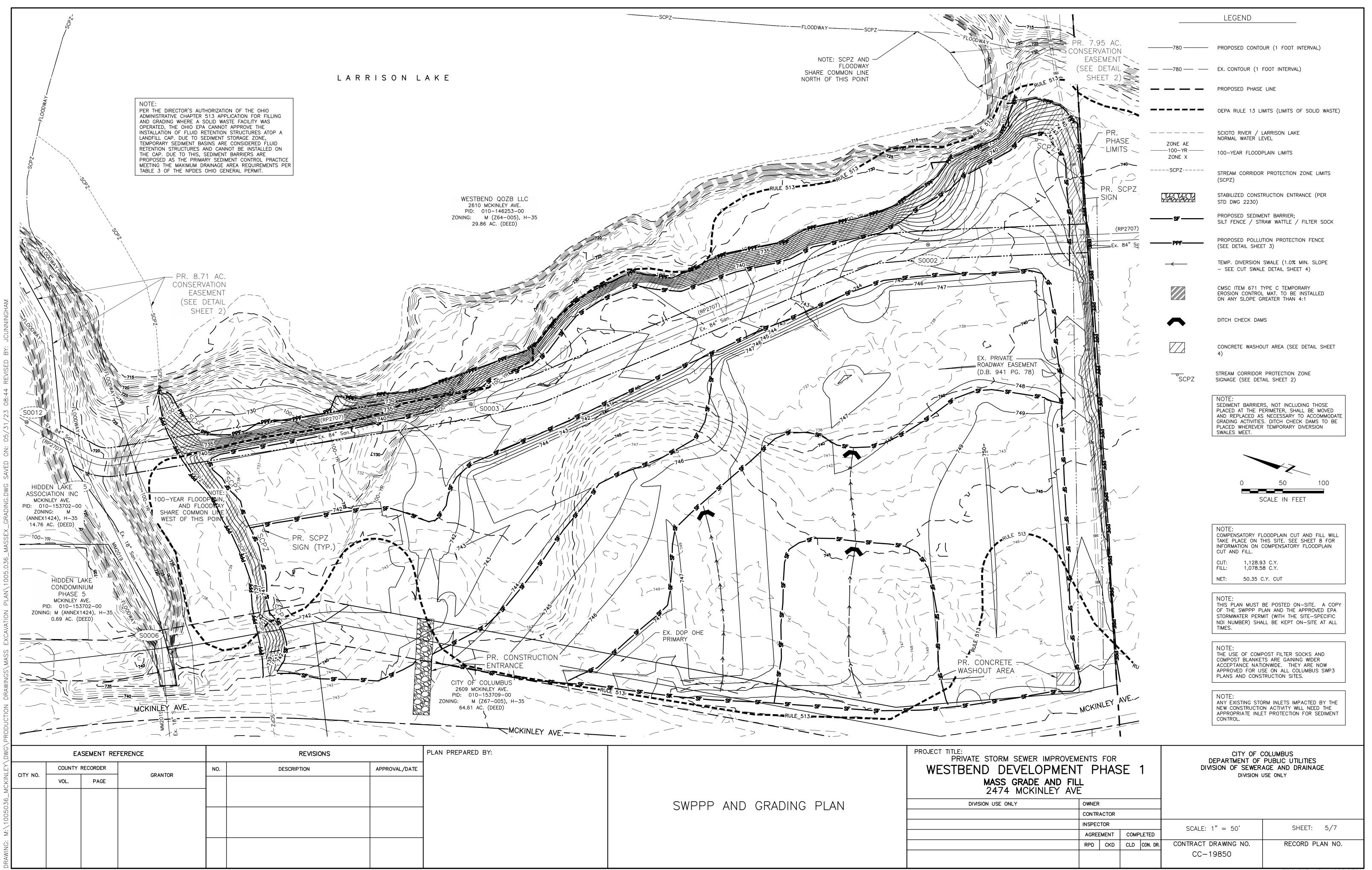
PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 MASS GRADE AND FILL 2474 MCKINLEY AVE

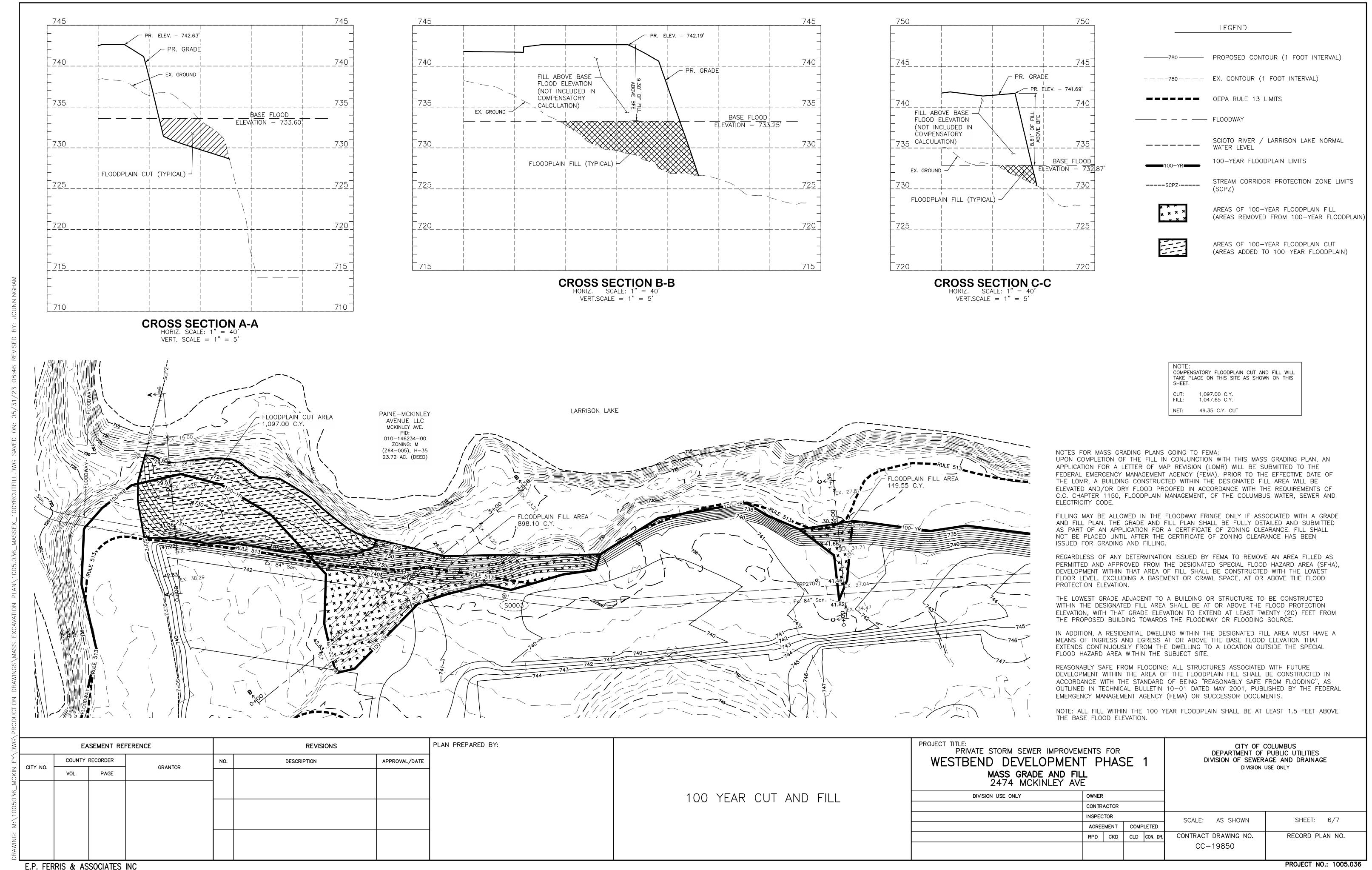
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

OWNER DIVISION USE ONLY CONTRACTOR INSPECTOR SCALE: NONE SHEET: 4/7AGREEMENT COMPLETED CONTRACT DRAWING NO. RPD | CKD | CLD | CON. DR. RECORD PLAN NO. CC-19850

E.P. FERRIS & ASSOCIATES INC

PROJECT NO.: 1005.036





LARRISON LAKE PAINE-MCKINLEY
AVENUE LLC
MCKINLEY AVE.
PID: 010-146234-00 ZONING: M (Z64-005), H-35 23.72 AC. (DEED)

100 YEAR FLOODPLAIN ADJUSTMENT

PLAN PREPARED BY:

APPROVAL/DATE

REVISIONS

DESCRIPTION

PROJECT TITLE:
PRIVATE STORM SEWER IMPROVEMENTS FOR
WESTBEND DEVELOPMENT PHASE 1 CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY MASS GRADE AND FILL 2474 MCKINLEY AVE DIVISION USE ONLY OWNER CONTRACTOR INSPECTOR SHEET: 7/7 SCALE: AS SHOWN AGREEMENT COMPLETED CONTRACT DRAWING NO. RPD CKD CLD CON. DR. RECORD PLAN NO.

LEGEND

---780--- EX. CONTOUR (1 FOOT INTERVAL)

OEPA RULE 13 LIMITS

— — — — FLOODWAY

100-YR EXISTING 100-YEAR FLOODPLAIN LIMITS

■■■PR. 100-YR■■■ PROPOSED 100-YEAR FLOODPLAIN LIMITS

SCIOTO RIVER / LARRISON LAKE NORMAL WATER LEVEL

STREAM CORRIDOR PROTECTION ZONE LIMITS (SCPZ)

CC-19850

E.P. FERRIS & ASSOCIATES INC

EASEMENT REFERENCE

PAGE

GRANTOR

COUNTY RECORDER

CITY NO.

PROJECT NO.: 1005.036

APPENDIX H GEOTECHNICAL REPORT AND BORING LOGS



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January 6, 2020

Mr. Joseph M. Reidy McKinley Avenue Acquisitions, LLC 842 North 4th Street, Suite 200 Columbus, Ohio 43215

Reference: Preliminary Geotechnical Assessment

Buckeye Auto Parts

2474 McKinley Avenue - Columbus, Ohio

GCI Project 19-G-22606-A

Dear Mr. Reidy:

As you authorized, GCI performed a series of test borings at the site as part of an environmental assessment of the subsurface conditions at the site. This report discusses the findings of the 16 test borings that were performed as part of the environmental study and provides a preliminary geotechnical assessment of the impact of the encountered subsurface conditions on the proposed mixed-use development.

SITE AND PROJECT DESCRIPTION

The project site is located due west of the Scioto River, straddling McKinley Avenue. A majority of the site is east of McKinley Avenue, with the Scioto River along its east boundary. A small segment of the site is located west of McKinley Avenue, with existing railroad tracks along its southwest boundary. Houses, a quarry, and a landfill have historically occupied parts of the property. The Buckeye Auto Parts salvage yard has occupied the property since the 1970s. An aerial image of the site is shown below. The photographs on the following pages show the site conditions near the time of the borings.



Site Aerial (obtained from Google Earth, dated March 2018)



Photo 1 (Taken from north-central portion of site, facing southeast)



Photo 2 (Taken from far northern end of site, facing east)



Photo 3 (Taken from eastern-central part of site, facing west)



Photo 4 (Taken from southern part of site, facing northwest)

We were provided with the Conceptual Master Plan, prepared by POD design, and dated December 19, 2019. The plan displays a layout of the proposed buildings and pavement areas. The layout also divides site into six zones as show on the image below.



Conceptual Master Plan (prepared by POD design)

A Site Data sheet is included within the Conceptual Master Plan and describes each zone as follows:

- Zone I: Five 3-story residential buildings;
- Zone II: One 3-story residential building, one 4-story residential building, one 1-story office building, and one 2-story office building;
- Zone III: Three 3-story residential buildings and one 1-story office building;
- Zone IV: Two 4-story residential buildings, one 5-story residential building, and four 1-story office buildings;
- Zone V: One 4-story residential building;
- Zone VI: Two 4-story residential buildings.

SUBSURFACE CONDITIONS

On November 11, 12, 13, 15, and 18, 2019, Envirocore (drilling contractor) performed sixteen (16) standard penetration test borings at the site. GCI representative Andy Shipley was on-site during drilling operations, noting auger spoil constituents and subsurface strata changes. Soil samples retrieved from the borings were classified by a GCI engineer in our laboratory. Attached to this report are two boring location plans (one over a site aerial and one over the site plan) and logs of the test boings. We summarize the subsurface findings below. Refer to the individual boring logs for more detailed information at specific boring locations.

Each of our borings encountered fill of variable constituents. In general, the encountered fills contained a soil-based matrix. This matrix consisted of sands, gravels, silts, and

clays, with sands being the most frequently observed component in our borings. Intermixed within the soil-based matrix were various components as described below:

- Wood was noted within many of our borings; in particular, borings DB-1, DB-8, and DB-12 contained depth ranges over which wood was the primary component.
- Cloth, glass, and metal were noted in some borings in relatively small quantities (significantly less than the observed wood).
- Cinders of an ash-like consistency were noted in many of our borings; the cinders were typically mixed with sands and other fines, giving the materials a dark gray color.
- Concrete fragments and brick fragments.

If we deemed appropriate, some fills were classified under the Unified Soil Classification System; these included Silty Sand with Gravel (SM), Silt (ML), Lean Clay (CL), Lean Clay with Sand (CL), Sandy Lean Clay (CL), and Sandy Lean Clay with Gravel (CL). A majority of the fill materials were noted as mixes, which we deemed as not fitting into a classification. On the logs, "mix" components are listed from highest quantity to lowest quantity constituents as noted in the split spoon samples.

Standard penetration testing N-values varied within the fills. Loose to dense granular fills and soft to hard cohesive fills were noted. N-values were random between borings and at various depth ranges within borings.

We noted moist, very moist, and wet (saturated) materials within our borings; these are noted as such on our logs. Groundwater seepage was encountered during drilling at respective depths of 23.5', 23', 8', 13', 20', and 18', in borings DB-1, DB-2, DB-8, DB-9, DB-11, and DB-12. Wet materials were noted below seepage levels. Practical implications with regards to moisture condition are discussed in the Geotechnical Evaluation section of this report. Note that soil moisture conditions and groundwater observations fluctuate due to changes in precipitation, climate, stabilization time, and other factors that may differ from the time the measurements were made.

Borings DB-1 to 6, DB-10, and DB-16 terminated within the fill at a depth of 25' below existing grade. Borings DB-7 and DB-11 encountered sampler refusal in fill and were terminated at respective depths of 7.1' and 24.4'. Borings DB-8, DB-9, and DB-12 to 15 encountered sampler refusal on what may be limestone bedrock at respective depths of 15', 10', 22', 14', 5.5', and 13.7'. The borings are summarized in the table on the following page.

Boring	Groundwater Level During Drilling (ft)	Groundwater Level at Drilling Completion (ft)	Bottom of Boring Depth (ft)	Notes
DB-1	23.5	24	25	-
DB-2	23	24.5	25	-
DB-3	-	-	25	-
DB-4	-	-	25	-
DB-5	-	-	21.3	Sampler refusal in fill at 21.3'
DB-6	-	-	25	-
DB-7	=	-	7.1	Sampler refusal in fill at 7.1'
DB-8	8	13	15.2	Possible Bedrock at 15'
DB-9	13	13	25	Possible Bedrock at 10'
DB-10	=	-	10.2	-
DB-11	20	23.5	24.4	Sampler refusal in fill at 24.4'
DB-12	18	18	22.2	Possible Bedrock at 22'
DB-13	-	-	15.1	Possible Bedrock at 14'
DB-14	=	=	5.9	Possible Bedrock at 5.5'
DB-15	-	-	13.7	Possible Bedrock at 13.7'
DB-16	-	-	25	-

No borings penetrated through the fill. As such, the fill depths and natural soils are not known. Additional "geotechnical" specific borings are recommended to evaluate fill depths and natural soils as they may impact foundation / site preparation approaches for the project.

ADDITIONAL BORINGS

This study consisted of 16 standard penetration test borings and is considered to be limited in scope considering the size of the property, the newness and potential fluidity of development plans, and the varying nature of the existing fills. <a href="Additional geotechnical specific borings will need to be performed to better characterize the fill conditions and fill depths, assess the natural soils, and presence of bedrock. This information is need to better assess appropriate foundation approaches.

PRELIMINARY GEOTECHNICAL EVALUATION

The fill poses geotechnical challenges for development, particularly with regards to settlement of structures and pavements. In our opinion, multiple foundation approaches may need to be utilized, depending upon the proposed development feature and the geotechnical conditions encountered. We discuss four foundation approaches in the following subsections. These approaches should be considered preliminary because the project scope has not been finalized and the depth of fill and natural soil has not been determined.

Approach 1 – Deep Dynamic Compaction

Based on the borings, ground improvement using deep dynamic compaction (DDC) is a viable approach for areas of the site although the high concentration of wood may be an

issue and will need further evaluation. A DDC specialty contractor should be consulted regarding attainable bearing capacities. Based on our experience with DDC in similar fill conditions, a 3,000 pounds per square foot (psf) bearing capacity will likely be the maximum achievable capacity under this approach. High building loads may preclude the use of DDC.

Based on our experience with DDC, the upper \pm 20 feet of material exhibits the most "improvement" (i.e., densification) from the process. DDC will be challenging in areas of the site exhibiting excessive moisture contents and significant wood content. Materials shown on our boring logs as "very moist" or "wet" may be difficult to "densify" due to the development of excess pore pressures, especially those with higher amounts of fine-grained materials.

Comments:

- Within favorable fill conditions (i.e., "normal" moisture content and minor wood content), DDC should be feasible for single-story commercial structures or light-weight residential structures (2- to 3-story wood-framed). Additional compactive effort should be applied along wall lines and at column locations for heavier and more settlement sensitive structures to reduce settlement potential. The other foundation approaches presented in this report would need to be utilized if the fill conditions are unfavorable to DDC (i.e., too wet to respond to DDC or too much deleterious materials, such as wood).
- A pre- and post-DDC boring plan will need to be implemented prior to starting any DDC activities to help assess the "improvement" of fills under the procedure.
- DDC will have a tendency to loosen the materials between the craters. GCI should be consulted prior to site activities to provide recommendations for remediation of DDC areas.
- The project team should anticipate challenges with DDC performed in late fall, winter, and early spring due to the upper level soils generally having higher moisture contents.
- As a minimum, the area to be compacted should be the building limits plus at least 20 feet outside the building perimeter. We also recommend DDC where sanitary lines are constructed. The DDC contactor should determine whether additional drops are needed.
- We recommend DDC be performed at the lowest possible elevation (i.e., before any new fill placement is performed).
- The DDC process could lower the densified area by 1 to 2 feet. Therefore, additional fill will be needed to complete site grading.

Approach 2 – Geopiers

This approach would consist of modifying the existing fills using geopiers. Temporary casing may be needed to install geopier elements through loose/soft zones of fills and below groundwater seepage. Obstructions in the fill (brick, concrete, metal, tanks, etc.) could be a problem during installation and will have to be dealt with on a case-by-case basis; this could include removing the obstruction. We anticipate that groundwater will be encountered during geopier installation; the specialty contractor will need to plan accordingly. Once the geopiers are installed, a shallow foundation system would be

used. Additional geotechnical specific borings will need to be performed to aid the geopier designer with pier spacing, size, depth, and bearing capacities.

Slab settlement could also be an issue with the geopiers option unless geopiers are installed below the entire building footprint to provide slab support. This will need to be further assessed in final design phases.

Approach 3 – Driven Piles

Based on the preliminary borings, this approach would involve driving piles through the fill to bear on bedrock. Shallow rock depths and/or excessively loose in-place materials may preclude this approach due to lateral support concerns. Additional borings will need to be performed to assess bedrock depths at building areas; rock coring will need to be performed as well.

Piles driven to refusal on bedrock would eliminate structure settlement concerns related to the existing fill. However, there is a potential for large obstructions within the fill, such as cobbles, boulders, metal, etc. Additional piles and pile cap/grade beam redesign would be needed if obstructions prevent piles from being installed to bedrock at the design locations. Slab constructed on fill could settle. This will need to be addresses in final design.

Approach 4 – Drilled Shafts

Shafts bearing on bedrock would eliminate structure settlement concerns related to the existing fill. The shafts should be designed to gain their support through end bearing, mostly likely on limestone bedrock. Additional borings with rock coring will need to be performed to attain approximate fill depths at proposed building areas and assess rock quality and hardness. We anticipate drilled shafts bearing in limestone bedrock can be designed for a preliminary end bearing capacity in the range of 20,000 to 40,000 psf. A negative skin friction value would need to be used for the depth of the fill, which can be provided after additional borings are performed. Note that groundwater seepage will be an issue with the construction of drilled shafts and will need to be addressed by the contractor.

Comments

In our opinion, portions of the site should respond well to DDC. However, the success of the DDC will depend largely on fill composition and moisture levels in the fill. Provided the site is prepared as recommended, we feel that total and differential settlement for light-weight structures should be within tolerable limits. However, settlement of footings supported on fill modified using DDC may vary due to variations in the fill, which presents risk.

Heavier and/or settlement sensitive buildings could settle more than desired under DDC-improved ground. If a particular tenant has a very strict settlement criterion, then the structure will need to be supported on deep foundations. There is still a risk of settlement associated with the existing fills if geopiers are used; however, we would consider the risk to be lower with geopier-improved ground in comparison to DDC-improved materials. Obstructions in the fill could present problems with pile installations as well as augering activities for geopiers or drilled shafts.

ADDITIONAL PRELIMINARY RECOMMENDATIONS

Site Preparation

Proposed development areas should be completely stripped of existing trees, vegetation, buildings, utilities, and scrap metal / auto parts, to expose the existing fill materials. This stripping process should be performed prior to any foundation or ground modification procedures. If a geopier or deep foundation approach is chosen, the earthwork contractor should proof-roll the exposed subgrade using a fully-loaded, tandem-axle dump truck (or equivalent) to identify potential soft, yielding subgrade areas. Soft spots

identified during the proof-roll should be undercut to firm, stable conditions, or otherwise stabilized.

Subgrade Stabilization

The stabilization of soft subgrades by disking, aerating/drying, and re-compaction may be feasible during traditionally drier times of the year. During wet seasons, partial undercutting and replacing of wet soils with structural fill, drying with soil additives such as lime, or use of geosynthetics may be needed to create a stable subgrade before placing controlled fills. The use of soil additives, such as lime and fly ash, or installation of geosynthetics should be reviewed by GCI prior to use in the field. Fewer problems with soft subgrades are expected if work is performed during traditionally drier times of the year (i.e., late spring, summer, and early fall). Traditionally wetter seasons (i.e., late fall, winter, and early spring) will contribute to more problems associated with soft, very moist subgrades.

New Fill Placement

Structural fill can be placed to design grade once subgrades are brought to firm and stable conditions. Non-organic site soils can be used as structural fill provided proper moisture control is maintained (if unsuitable items are found within the fill, they should be removed). Imported fill materials should be reviewed by our office prior to placement. Depending on the time of year of earthwork, the fill may require drying to achieve proper compaction.

Foundations and Floor Slabs

After additional borings are performed and ground improvement / deep foundation approaches are further assessed, recommendations can be provided.

Seismic Factor

Based on our preliminary borings, and provided the site is prepared as recommended, we would estimate the site as a Site Class D – stiff soil profile.

Pavements

Provided the site is prepared as described herein, conventional aggregate base and flexible asphalt wearing course pavements should be feasible. A specific pavement design is beyond the scope of work of this report; GCI can provide one if requested. Properly compacted, it is our opinion the site materials would have a preliminary CBR value of at least 3 (no actual testing has been performed during this subsurface exploration; this is based on our observation of the on-site materials and experience with similar project sites).

ENVIRONMENTAL

This report deals with geotechnical considerations for land development. There are environmental issues which are beyond the scope of this report. GCI has been providing environmental consulting to the project. Items such as the location and thickness of a clay cap, installation of a methane extraction system, the need for a vapor barrier below the floor slabs, etc., are environmental items that should be considered for the project. It is critical that these and other pertinent environmental considerations be coordinated with geotechnical aspects of site preparation.

CONSTRUCTION MATERIAL ENGINEERING AND TESTING

GCI provides construction materials engineering and testing (CoMET) services. For project continuity throughout construction, we recommend that GCI be retained to observe, test, and document the following:

- DDC, geopier and deep foundation installation,
- earthwork procedures (stripping, cut and fill earthwork, etc.),
- foundation and slab preparation (proof-rolling, excavations, etc.)
- concrete placement (footings, grade beams, slabs) and compressive strength testing, and
- structural steel (welds, bolts, etc.).

The purpose of this work is to assess that the intent of our recommendations is being followed and to make timely changes to our recommendations (as needed) in the event site conditions vary from those encountered in our borings. Please contact our field department to initiate these services.

FINAL

In the event that any changes in the nature or design of the project are planned, conclusions and recommendations contained in this report shall not be considered valid unless changes are reviewed and conclusions of this report are modified or verified in writing.

The preliminary recommendations contained in this report are the opinion of Geotechnical Consultants, Inc. based on the subsurface conditions found in the borings and available development information. The nature and extent of variations between borings might not become evident until construction. <u>Due to the nature of this site (i.e., random fill placed many years ago)</u>, abrupt variations in fill components and density should be anticipated. Depending on the encountered conditions, it may be necessary to re-evaluate the recommendations of this report.

This letter report has been prepared for the exclusive use of McKinley Avenue Acquisitions, LLC, and their consultants for specific application to the proposed development at 2474 McKinley Avenue in Columbus, Ohio in accordance with generally accepted soil and foundation engineering practices. No warranty, expressed or implied, is made.

It has been a pleasure to be of service to you on this project. If you have any questions or need for additional service, please contact GCI.

Respectfully submitted,

Geotechnical Consultants, Inc.

Jeffrey M. Holko, P.E. Project Manager

David W. Capria D. F.

David W. Caprio, P.E.

Principal

Attachments: General Notes for Soil Sampling and Classifications

JEFFREY M. HOLKO E-82689

General Site Location Map Boring Location Plan

Borings Logs

Distribution: Mr. Joseph Reidy – McKinley Avenue Acquisitions - pdf copy via email

GCI File



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GENERAL NOTES FOR SOIL SAMPLING AND CLASSIFICATIONS

BORINGS, SAMPLING AND GROUNDWATER OBSERVATIONS:

Drilling and sampling were conducted in accordance with procedures generally recognized and accepted as standard methods of exploration of subsurface conditions. The borings were drilled using a truck-mounted drill rig using auger boring methods with standard penetration testing performed in each boring at intervals ranging from 1.5 to 5.0 feet. The stratification lines on the logs represent the approximate boundary between soil types at that specific location and the transition may be gradual.

Water levels were measured at drill locations under conditions stated on the logs. This data has been reviewed and interpretations made in the text of the report. Fluctuations in the level of the groundwater may occur due to other factors than those present at the time the measurements were made.

The Standard Penetration Test (ASTM-D-1586) is performed by driving a 2.0 inch O.D. split barrel sampler a distance of 18 inches utilizing a 140 pound hammer free falling 30 inches. The number of blows required to drive the sampler each 6 inches of penetration are recorded. The summation of the blows required to drive the sampler for the final 12 inches of penetration is termed the Standard Penetration Resistance (N). Soil density/consistency in terms of the N-value is as follows:

COHESION	ILESS DENSITY	COHESIVE CONSISTENCY			
0-10	Loose	0-4	Soft		
10-30	Medium Dense	4-8	Medium Stiff		
30-50	Dense	8-15	Stiff		
50 +	Very Dense	15-30	Very Stiff		
	•	30 +	Hard		

SOIL MOISTURE TERMS

Soil Samples obtained during the drilling process are visually characterized for moisture content as follows:

MOISTURE CONTENT	DESCRIPTION
Damp	Soil moisture is much drier than the Atterberg plastic limit (where soils are cohesive) and generally more than 3% below Standard Proctor "optimum" moisture conditions. Soils of this moisture generally require added moisture to achieve proper compaction.
Moist	Soil moisture is near the Atterberg plastic limit (cohesive soils) and generally within ±3% of the Standard Proctor "optimum" moisture content. Little to no moisture conditioning is anticipated to be required to achieve proper compaction and stable subgrades.
Very Moist	Soil moisture conditions are above the Atterberg plastic limit (cohesive soils) and generally greater than 3% above Standard Proctor "optimum" moisture conditions. Drying of the soils to near "optimum" conditions is anticipated to achieve proper compaction and stable subgrades.
Wet	Soils are saturated. Significant drying of soils is anticipated to achieve proper compaction and stable subgrades.

SOIL CLASSIFICATION PROCEDURE:

Soil samples obtained during the drilling process are preserved in plastic bags and visually classified in the laboratory. Select soil samples may be subjected to laboratory testing to determine natural moisture content, gradation, Atterberg limits and unit weight. Soil classifications on logs may be adjusted based on results of laboratory testing.

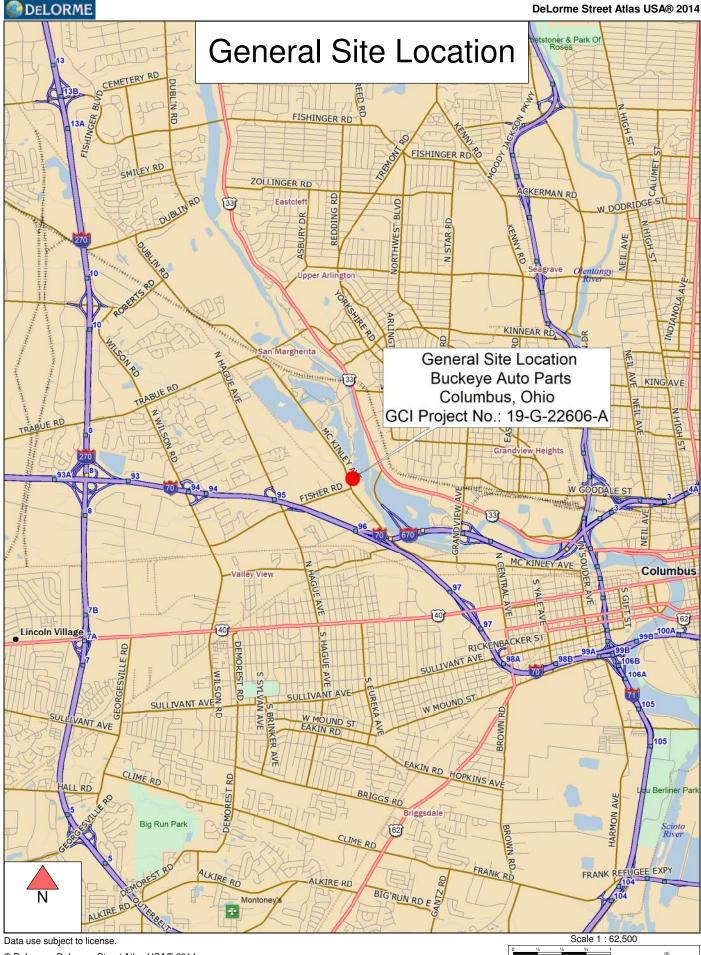
Soils are classified in accordance with the ASTM version of the Unified Soil Classification System. ASTM D-2487 "Classification of Soils for Engineering Purposes (Unified Soil Classification System) describes a system for classifying soils based on laboratory testing. ASTM D-2488 "Description and Identification of Soil (Visual-Manual Procedure) describes a system for classifying soils based on visual examination and manual tests.

Soil classifications are based on the following tables (see reverse side):

GENERAL NOTES FOR SOIL SAMPLING AND CLASSIFICATIONS

		PARTICLE SIZE DEFINITION	CONSTITUENT MODIFIERS			
Boulders:		>12"				
Cobbles:		3" to 12"	Trace	Less than 5%		
Gravel:	Coarse:	3/4" to 3"	Few	5-10%		
	Fine:	No. 4 (3/16") to 3/4"	Little	15-25%		
Sand:	Coarse	No. 10 (2.0mm) to No. 4 (4.75mm)	Some	30-45%		
	Medium	No. 40 (0.425mm) to No. 10 (2.0mm)	Mostly	50-100%		
	Fine	No. 200 (0.074mm) to No. 40 (0.425mm)	,			
Silt & Clay		<0.074mm; classification based on overall plasticity; in general clay particles <0.005mm.				

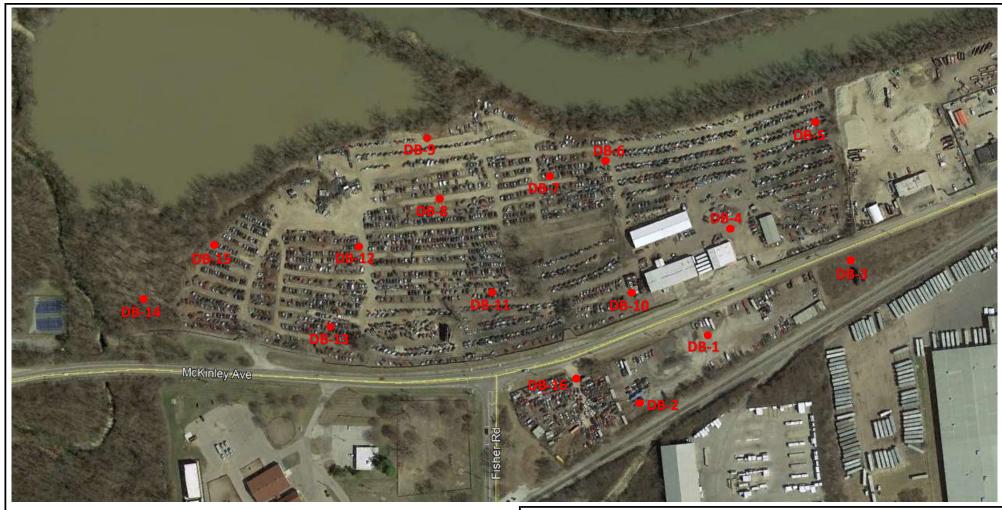
ASTM/UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART								
COARSE-GRAINED SOILS (more than 50% of materials is larger than No. 200 sieve size)								
		Clean Gravel (less than 5% fines)						
	GW	Well-graded gravel, gravel-sand mixtures, little or no fines						
GRAVELS	GP	Poorly-graded gravels, gravel sand mixtures, little or no fines						
More than 50% of coarse fraction larger		Gravels with fines (more than 12% fines)						
than No. 4 sieve size	GM	Silty gravels, gravel-sand-silt mixtures						
	GC	Clayey gravels, gravel-sand-clay mixtures						
		Clean Sands (Less than 5% fines)						
	SW	Well-graded sands, gravelly sands, little or no fines						
SANDS	SP	Poorly-graded sands, gravelly sands, little or no fines						
More than 50% of coarse fraction smaller		Sands with fines (More than 12% fines)						
than No. 4 sieve size	SM	Silty sands, sand-silt mixtures						
	00	Clayey sands, sand slav mixtures						
		Clayey sands, sand-clay mixtures In No. 200 sieve size), coarse-grained soils are classified as follows:						
Less than 5 percent	smaller tha	n No. 200 sieve size), coarse-grained soils are classified as follows:						
Less than 5 percent	FII							
Less than 5 percent	FII							
Less than 5 percent	FII							
Less than 5 percent	FII ore of mat							
Less than 5 percent	FII ore of mat							
Less than 5 percent	FII ore of mat							
Less than 5 percent	FII ore of mat CL CL-ML							
Less than 5 percent Greater than 12 percent 5 to 12 percent (50% or m SILTS AND CLAYS Liquid Limit less than 50%	FII ore of mate							
Less than 5 percent	FII ore of mate CL CL-ML OL MH							



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1" = 5,208.3 ft Data Zoom 11-6





Boring Location

BORING LOCATION PLAN - Aerial

2474 McKinley Avenue

Columbus, Ohio

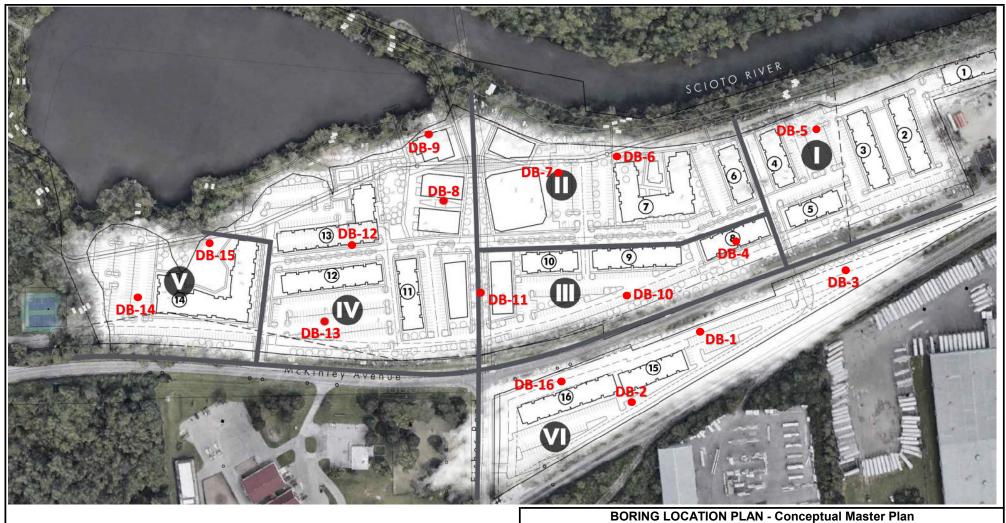
Aerial image obtained from Google Earth, dated March 2018

Project No.: 19-G-22606-A

Date: 01/06/2020 Drawn By: Jeffrey Holko

Scale: Not to Scale







2474 McKinley Avenue

Columbus, Ohio

Plan Prepared by POD design, dated December 19, 2019

Project No.: 19-G-22606-A

Date: 01/06/2020 Drawn By: Jeffrey Holko

Scale: Not to Scale



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB- 1
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 19-G-22606-A	DATE DRILLED	11/11/2019

GROUND WATER OBSERVATION									.• TT 1	140 lb W/t v 20" fall on 2" O D. Sampler			
	GROU	JND WATI	EK OB	SER	VAI	ION		•	rtions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density Cohesive Consistency			
,	240 EEE	ET DEI OW SI	DEACE	AT C	OMDI	ETIO		Trace Less than 570					Soft
	24.0 FEET BELOW SURFACE AT COMPLETION FEET BELOW SURFACE AT 24 HOURS							Little 15 to 25% 10 - 30 Medium Dense 4 - 8 M				Medium Stiff	
_								ome	30 to 45%	30 - 50	Dense	8 - 15 15 - 30 30 +	Stiff Very Stiff
-		ET BELOW SU		AT _				ostly	50 to 100%	50 +	Very Dense	30 +	Hard
	LOCATI	ION OF BO	RING				ring Loc	ation P	lan				
H	Pocket	Sample	Туре		ws pe		Moisture	Strata		SOI	L IDENTIFICAT	ION	
DEPTH	Penetrometer (tsf)	Depths	of	En	Samp om	ner To	Density or	Change			clude color, type		
D	(651)	From To	Sample	0-6		12-18		Depth*		Rock-colo	or, type, condition,	, hardness	
		0.0-2.0	SS	11	33	6	Moist		FILL: Dark	Gray Silty	Sand with Grav	el; contains	cinders and
				7				1.5	brick			,	
		2.0-4.0	SS	7	8	2	Moist	2.5	FILL: Light	Gray Silty	Sand with Grav	vel; contains	concrete
		2.0 1.0	55	3			TVIOISC			brown mix	of clay/silt fine	es, sand, woo	d, gravel,
		40.60	CC		7		X 7		and cinders	- C 41 C	1.1		
5		4.0-6.0	SS	6	7	6	Very Moist		Low recove	ry 10r 4' - 6	depth sample		
,				I				6.0	\(\)				
		6.0-8.0	SS	3	2	4	Very Moist		FILL: Most	ly wood wit	th brick fragme: ' depth sample	nts, sand, an	d gravel
				9			IVIOISU		Low recove	ry 10r 6' - 8	depth sample		
		8.0-10.0	SS	3	6	8	Moist	8.5	X				
				9				10.0	FILL: Brow and wood	n mix of cla	ay/silt fines, sar	nd, gravel, gl	ass, cinders,
10		10.0-12.0	SS	8	5	7	Very	10.0	∠	ly wood wit	th sand, clay/sil	t fines and c	ravel
		10.0-12.0	55	13			Moist		TILL: Wost	ly wood wi	ui sana, ciay/sii	t illies, and g	graver
				13									
		13.5-15.0	SS	7	6	4	Moist		\bowtie				
									\bowtie				
15									\bowtie				
									\boxtimes				
									\bowtie				
		10 5 20 0	CC	2	1	3	Vom	18.5	\bowtie				
		18.5-20.0	SS	3	1	3	Very Moist	10.5	FILL: Dark	brown mix	of clay/silt fine	s, sand, woo	d, gravel,
20									and brick		-		-
20					L				\bowtie				
									\bowtie				
									\bowtie				
		23.5-25.0	SS	5	6	3	Wet	23.5	Water Seep				
										gray mix o	f sand, clay/silt	fines, gravel	, and wood
25								25.0					
										DOTT		NG 25!	
										BOT.	ГОМ OF BORI	NG: 25'	
	<u> </u>		I	I	I	I .		I.	<u> </u>			_	_

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB- 2
	·	PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 19-G-22606-A	DATE DRILLED	11/11/2019

	GROI	J ND WATI	VAT	ION		Proportions Used				140 lb Wt. x 30" fall on 2" O.D. Sampler						
	GROC	JIID WILL	LIK OB	OLI	V 1 X I	1011		Trace Less than								
_2	24.5 FEE	ET BELOW SU	RFACE	AT C	OMPL	ETIO	I	ew		5 to 10%		- 10		0 -	4 8	Soft
FEET BELOW SURFACE AT 24 HOURS								ttle		15 to 25%		- 30			15	Medium Stiff Stiff
FEET BELOW SURFACE AT HOURS								ome ostly		30 to 45% 50 to 100%	50	- 50 +	Dense Very Dense	15 - 30 +	30	Very Stiff Hard
		ON OF BO		_			ring Loc		lan				,			
	Pocket			Blo	ws pe		Moisture									
DEPTH	Penetrometer	Sample Depths	Type of	on	Samp	ler	Density	Strata Change			Ren		OIL IDENTIFICAT include color, type		,	
DE	(tsf)		Sample		6-12	To	or Consist.	Depth*					lor, type, condition			
		0.0-2.0	SS	12	9	2	Moist	0.6	[^,^1	Topsoil				-		
		0.0 2.0		1			TVIOISC	1.5	\bigotimes	FILL: Gray	mix o	of sil	ty sand, gravel, a	and conc	rete	······································
		2.0-4.0	SS	4	2	3	Moist	1.5	\bowtie	FILL: Brow	n miz	x of s	and, clay/silt fin	es, grave	el, co	oncrete,
				4				4.0		brick, and c	inder	S				
		4.0-6.0	SS	4	4	3	Moist	4.0	X	FILL: Brow	n miz	x of c	lay/silt fines, sa	nd, and v	vood	
5				1				6.0	\bowtie				,			
		6.0-8.0	SS	7	1	1	Moist	0.0	X	FILL: Brow	n miz	x of s	ilty sand, gravel	, concret	e, w	ood, and
				1						cloth						
		8.0-10.0	SS	3	1	2	Very		\bowtie							
1.0				3			Moist	10.0								
10		10.0-12.0	SS	2	3	7	Very		X	FILL: Brow	n miz	x of c	lay/silt fines, sa	nd, grave	el, co	oncrete,
				10			Moist		\bowtie	cloth, cinde	rs, an	d gla	SS			
									\bowtie							
		13.5-15.0	SS	3	1	1	Very Moist		\bowtie							
15							Moisi		\bowtie							
		18.5-20.0	SS	2	2	2	Vomi	18.0	\bowtie	EILL Dods			of alary/ailt finas	مند مامست		ما مامناه مسط
		18.3-20.0	22	3	2	2	Very Moist		\boxtimes	glass	gray	mix (of clay/silt fines,	, cinders,	san	a, cioin, and
20									\boxtimes	8						
									\bowtie							
								22.0	\boxtimes	Water Seep	าลตะ	at 23	,•			
		23.5-25.0	SS	6	2	2	Wet	23.0	X	FILL: Mix of	of bro	wn s	andy lean clay,	wood an	d clo	oth
		23.0 23.0					', 5'			I ILL. IVIIA		. ,,11 0	ming itali ting,	un	010	
25																
									\bowtie							
								28.0								
		28.5-30.0	SS	5	5	4	Wet	20.0	X	FILL: Mix o	of dar	k gra	y sand, wood, a	nd glass		
20								30.0				_		-		
30									ľ							
												ВОТ	TOM OF BOR	NG: 30'		

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO.	DB- 3
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 1 <u>9-G-22606-A</u>	DATE DRILLED	<u>11/11/2019</u>

	CDOI	J ND WAT I	FD AD	CFD	VAT	ION		Dropor	tions Used	1/0 lb W/t v 20" fall	on 2" O.D. Sampler		
	GROC	IND WALL	LK OD	SER	VAI	ION		ace	Less than 5%	140 lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density Cohesive Consistency			
N	None FEE	ET BELOW SU	JRFACE	AT C	OMPL	ETIO	I	ace w	5 to 10%	0 - 10 Loose	•		
	FEET BELOW SURFACE AT 24 HOURS						Li	Little 15 to 25% 10 - 30 Medium Dense 4 - 8 Medium Dense 8 - 15					
_	FEET BELOW SURFACE AT HOURS							ome ostly	30 to 45% 50 to 100%	30 - 50 Dense 50 + Very Dense	8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard		
_		ON OF BO		711			ring Loc	-		30 Very Bense	30 · Hard		
	Pocket		Idito	Rlc	ws pe		Moisture Moisture						
TH	Penetrometer	Sample	Type		Samp		Density	Strata		SOIL IDENTIFICATI			
DEPTH	(tsf)	Depths From To	of Sample	Fr	om	То	or	Change Depth*		Remarks include color, type (Rock-color, type, condition.			
				0-0	6-12	12-18		_	Tomasil	Trees verer, type, venemen,			
		0.0-2.0	SS	5	9	10	Moist	0.2	Topsoil	n mix of sand, gravel, cond	crete, and clay/silt fines		
				9					\bowtie		crete, and cray/sint times		
		2.0-4.0	SS	5	9	9	Moist	3.0	XX	noted from a 2' - 3' depth			
				3				4.0	FILL: Gray	mix of lean clay and cinde	ers		
-		4.0-6.0	SS	5	9	6	Moist		FILL: Brow	n mix of sand, clay/silt fin	es, cinders, gravel, and		
5				6				6.0	glass				
		6.0-8.0	SS	6	2	2	Moist	0.0	FILL: Dark	gray mix of clay/silt fines,	sand, gravel, cinders,		
				2					concrete, w	ood, cloth, and glass	, , , , ,		
		8.0-10.0	SS	6	2	2	Very		\bowtie				
		0.0 10.0	55	2	-		Moist		\boxtimes				
10									\bowtie				
									\boxtimes				
									\otimes				
								10.5	\boxtimes				
		13.5-15.0	SS	8	6	3	Very Moist	13.5	FILL Dark	brown mix of sand, gravel	concrete clay/silt fines		
							Moisi		wood, and c	loth	, concrete, etay/site times,		
15									\bowtie				
									\otimes				
									\otimes				
		18.5-20.0	SS	10	10	10	Very		Very low re	covery for 18.5' - 20' depth	ı sample		
		10.0 20.0		10	10	10	Moist			11.11, 101 1010 20 dopu.			
20									\boxtimes				
									\bowtie				
									\boxtimes				
								02.5	\otimes				
		23.5-25.0	SS	8	4	8	Moist	23.5	FILL · Light	Brown Silt (similar to lim	estone tailings): contains		
								25.0	sand and gra	avel	estone tannigs), contains		
25								25.0	<u> </u>				
										BOTTOM OF BORI	NG: 25'		

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO.	DB- 4
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO 19-G-22606-A	DATE DRILLED	11/12/2019

CLII	ENT	<u> </u>	<u>iey Av</u>	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC	<u> </u>	NO. 19-G-22606-A DATE DRILLED 11/12/201							
	GROU	J ND WAT I	ER OB	SER	VAT	ION		Propor	tions Used 140 lb Wt. x 30" fall on 2" O.D. Sampler							
							Tı	ace	Less than 5% Cohesionless Density Cohesive Consistency							
1	None FEI	ET BELOW SU	JRFACE	AT C	OMPL	LETIO1		ew	5 to 10%							
_	FEI	ET BELOW SU	JRFACE	AT 24	4 HOU	RS		ttle ome	Stiff							
_	FEH	ET BELOW SU	JRFACE	AT .		HOUR		ostly	30 to 45% 30 - 50 Dense 15 - 30 Very Stiff 50 to 100% 50 + Very Dense 30 + Hard							
	LOCAT	ION OF BO	RING		Se	ee Bo	ring Loc	ation P	lan							
Ŧ	Pocket	Sample	Туре		ws pe		Moisture	Strata	SOIL IDENTIFICATION							
DEPTH	Penetrometer	Depths	of		Samp		Density	Change	Remarks include color, type of soil, etc.							
D	(tsf)	From To	Sample			To 12-18	or Consist.	Depth*	Rock-color, type, condition, hardness							
		0.0-2.0	SS	26	13	14	Moist	0.6	FILL: Gray Silty Sand with Gravel; contains concrete							
				6				FILL: Dark brown mix of clay, sand, gravel, wood,								
		2.0-4.0	SS	8	6	6	Moist	glass								
				4	-	-	1,10100	3.0 FILL: Brown mix of sand, gravel, concrete, wood, and								
		4.0-6.0	SS	6	36	29	Moist		fines							
5		7.0-0.0	00	4	30	29	1410121	5.0	EIL L Light Drawn Silty Sand with Gravel							
		(000	00	_		1	Main	6.0	FILL Light Brown Silty Sand with Gravel							
		6.0-8.0	SS	12	6	4	Moist		FILL: Brown mix of gravel, sand, brick, clay/silt fines, cinders, and glass							
				8				8.0								
		8.0-10.0	SS	5	5	6		9.0	FILL: Brown Sandy Lean Clay; contains wood							
1.0				19					FILL: Gray Sandy Lean Clay; contains wood, cinders, and bricl							
10																
								13.0								
		13.5-15.0	SS	3	4	5	Moist	13.0	FILL: Gray mix of clay, sand, brick, concrete, and wood							
15																
		10.5.20.0	GG		_	<u> </u>	* 7									
		18.5-20.0	SS	5	4	5	Very Moist									
20																
20																
								23.0								
		23.5-25.0	SS	1	0	0	Very	23.0	FILL: Gray mix of wood, clay/silt fines, and sand							
							Moist	25.0	Possible void; spoon dropped with no hammer from 24'-25							
25								23.0	**							
									BOTTOM OF BORING: 25'							
									BOTTOM OF BOILING, 25							
		fication lin														

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB- 5
	•	PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 19-G-22606-A	DATE DRILLED	11/12/2019

CLIE	ENT	McKin	ley Av	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC	<u> </u>		NO. 19-G-22606-A DATE DRILLED 11/12/2019				
	GROU	IND WAT	ER OB	SER	VAT	ION		Propor	rtions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler				
N	None FEE	T BELOW SU	JRFACE	AT C	OMPL	ETIO1		race ew	Less than 5% 5 to 10%	Cohesionless Density 0 - 10 Loose 0 - 4 Soft				
		T BELOW SU					Li	ittle	15 to 25%	10 - 30 Medium Dense 4 - 8 Medium Stiff 8 - 15 Stiff				
_	FEE	T BELOW SU	JRFACE	AT _		HOUR		ome lostly	30 to 45% 50 to 100%	30 - 50 Dense 15 - 30 Very Stiff 50 + Very Dense 30 + Hard				
	LOCATI	ON OF BO	RING		Se	ee Bo	ring Loc	ation P	lan	·				
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	on	Samp	ler	Moisture Density or Consist.	Strata Change Depth*		SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness				
		0.0-2.0	SS	10	8	3	Moist		FILL: Gray 1	mix of sand, clay/silt fines, gravel, concrete, glass,				
				3				2.0	brick, and ci	nders				
		2.0-4.0	SS	3	3	4	Very	2.0	FILL: Brown	n mix of clay/silt fines, sand, gravel, and cloth				
				5			Moist	4.0						
5		4.0-6.0	SS	5	4	2	Very Moist			mix of clay/silt fines, sand, and gravel				
				3	_			6.0	X	y at 4' - 6' depth sample				
		6.0-8.0	SS	4	0	0	Very Moist		FILL: Dark of cinders, and	brown mix of clay/silt fines, sand, gravel, brick, glass				
		8.0-10.0	SS	2	1	1	Vom		Low recover	y at 6' - 8' depth sample				
		8.0-10.0	33	1	1	1	Very Moist	9.0	И М	d(s) in 6.5'-8' depth range Lean Clay; contains cinders, gravel, and glass				
10				1					TILL. Gray	Lean Ciay, contains emecis, graver, and grass				
		13.5-15.0	SS	2	1	2	Very Moist		Odor at 13.5	' - 15' depth sample interval				
15														
	1.0-2.25	18.5-20.0	SS	4	4	3	Very Moist	18.5	FILL: Gray	Lean Clay				
20		21.0-21.3	SS	50/4''	1									
		21.0 21.3						21.3	FILL: Samp	le contained concrete fragments and fines				
										BOTTOM OF BORING: 21.3'				
25														

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO.	DB- 6
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 19-G-22606-A	DATE DRILLED	11/12/2019

CLIE	ENT	MICKIN	iey Av	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC			NO. 19-G-22606-A DATE DRILLED 11/12/2019									
	GROU	JND WAT	ER OB	SER	VAT	ION		Propor	tions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler									
							Tr	race	Less than 5%	Cohesionless Density Cohesive Consi									
1	lone FEE	ET BELOW SU	JRFACE	AT C	OMPI	ETIO		ew	5 to 10%	0 - 10		0 - 4 4 - 8	Soft Madisses Stiff						
_	FEE	ET BELOW SU	JRFACE	AT 24	4 HOU	RS		ttle ome	15 to 25% 30 to 45%	10 - 30		18-15	Medium Stiff Stiff						
	FEE	ET BELOW SU	JRFACE	AT		HOUR		ostly	50 to 100%	50 +	Very Dense	15 - 30 30 +	Very Stiff Hard						
		ION OF BO					ring Loc	ation P	lan										
	Pocket			Blo	ws pe		Moisture												
DEPTH	Penetrometer	Sample	Type		Samp		Density	Strata Change											
DEF	(tsf)	Depths From To	of Sample			То	or	Depth*			olor, type, condition								
_	1.5			0-0	_	12-18		2 cp.iii	Y EILL D				1 1 1 1						
	4.5+	0.0-2.0	SS	6	4	8	Moist		cinders	n Sandy I	Lean Clay with G	ravei; contai	ns brick and						
				10					× cinders										
		2.0-4.0	SS	6	8	4	Moist		\bowtie										
				4					\bowtie										
		4.0-6.0	SS	3	5	6	Moist	5.0	0										
5				6				5.0	FILL: Brown mix of sandy lean clay and fine sand										
	4.0	6.0-8.0	SS	8	5	26	Moist												
	4.0	0.0-0.0	33		-	20	WIOISt		Dark Gray Sandy Lean Clay with Gravel noted at 7' -										
				4				8.0											
		8.0-10.0	SS	4	1	1	Moist	FILL: Dark gray mix of sand, gravel, and clay/silt fin											
				14					Wood pieces noted at 9' - 10' depth interval										
10																			
									\otimes										
									\bowtie										
		13.5-15.0	SS	4	4	4	Very	13.5	5										
		13.3-13.0	33	4	4	4	Moist	10.0	FILL: Mix	of dark gr	ay sand, cinders,	clay/silt fine	s, gravel,						
15									concrete, an	d wood									
13									\bowtie										
									\bowtie										
									\otimes										
		18.5-20.0	SS	8	3	4	Very		Very low re	covery fo	r 18.5' - 20' depth	n sample							
				<u> </u>	+	· ·	Moist		\otimes	- :	5.5 – 5 –5 pu								
20									\bowtie										
									\bowtie										
									\boxtimes										
								23.0	\bowtie										
		23.5-25.0	SS	5	1	4	Very Moist		FILL: Dark	gray mix	of sand, cinders,	clay/silt fine	s, wood, and						
							Moist	25.0	gravel										
25								25.0											
						-				RO′	TTOM OF BORI	NG: 25'							
										DО	I TOM OF BORI	11 10. 23							
			oc none					•	*				_						

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PRC	JECT NAN	Æ Buckey	<u>e Auto</u>	<u>Par</u>	<u>ts - 2</u>	474 I	<u> McKinle</u>	y Ave.,	Col	<u>lumbus, OH</u>	[BORING NO		
								~			PROJ. SURF. ELEV NO. 19-G-22606-A DATE DRILLED			
CLI	ENT	<u>McKin</u>	<u>ley Av</u>	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC	2			_ NO. 1 <u>9</u>	-G-22606-A D.	ATE DRILLED	11/12/2019
	GROU	J ND WAT I	ER OB	SER	VAT	ION		Propor	rtio	ns Used	140 lb Wt. x 30" fall on 2" O.D. Sample			
<u>]</u>	FEI	ET BELOW SU ET BELOW SU ET BELOW SU	JRFACE	AT 24	4 HOU	RS	N Few 5 to 10% Little 15 to 25% Some 30 to 45%			0 - 10 10 - 30 30 - 50 50 +	Medium Dense	0 - 4 4 - 8 8 - 15 15 - 30 30 +	Soft Medium Stiff Stiff Very Stiff Hard	
_		ON OF BO		AI .				-	lan		30 1	very Delise	30 +	Tiaiu
	_	ION OF BU	KING	DI			ring Loc Moisture		lan					
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	on Fr	Samp	ler To	Density or Consist.	Strata Change Depth*			Remarks i	IL IDENTIFICAT include color, type lor, type, condition	of soil, etc.	
		0.0-2.0	SS	10	10	7	Moist	0.2	\^^^	Topsoil				
											brown miz	x of silty sand ar	nd concrete fr	agments
				6					X					
									\bowtie					
									X					
		2040	CC	6	2	2	Moist							
	2.0-4.0 SS 6 3 3 M								X					
		3												
								3.0		· <u>····</u>		<u>.</u>		
									\bowtie	FILL: Dark	gray mix o	of sand, clay/silt (odor noted)	fines, cinders	s, concrete
										maginenis, a	ilu gravci	(odor noted)		
								4.0						
		4.0-6.0	SS	3	1	1	Moist			Sample fron	n 4' - 6' de	pth contains met	tal (odor note	d)
				1										
				1										
5	; 								\bowtie					
								6.0						
	6.0-7.1 SS 6 29 50/1' Ve						Very	6.0		FILL Dark b	orown mix	of clay/silt fine	s, sand, and w	vood (odor
	M						Moist		\bowtie	noted)		j	-,	(
l							7.1	\boxtimes						
											DOT	TOM OF BORY	NO 7.11	
										BOL	TOM OF BORI	NG: 7.1'		



^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

PROJECT NAME	Buckeye Auto Parts - 2474 McKin	ıley Ave., Columbus, OH		BORING NO	DB- 8
			PROJ.	SURF. ELEV	
CLIENT	McKinley Avenue Acquisitions, L	LC	NO. 19-G-22606-A	DATE DRILLED	11/13/2019
CDOUN	D WATED OPSEDVATION	Proportions Used	140 lb W/t = 20" f	Fall on 2" O.D. (Sampler

CLII	ENT	McKin	iey Av	<u>enue</u>	Acqı	uisiti	ons, LLC		_ NO). <u>15</u>	9-G-22606-A DA	ATE DRILLED	11/13/2019			
	GROU	IND WATI	ER OB	SER	VAT	ION		Propor	rtio	ns Used	140 lb Wt. x 30" fall on 2" O.D. Sampler					
								ace		Less than 5%	Cohesionless Density Cohesive Consister					
_	13.0 FEE	T BELOW SU	JRFACE	AT C	OMPL	ETIO		ew		5 to 10%		- 10		0 - 4	Soft	
l _	FEE	T BELOW SU	JRFACE	AT 24	HOU	RS	l l	ttle		15 to 25%		- 30		0 - 4 4 - 8 8 - 15	Medium Stiff Stiff	
		T BELOW SU]			ome ostly		30 to 45% 50 to 100%	30 50	- 50 +	Dense Very Dense	15 - 30 30 +	Very Stiff Hard	
_		ON OF BO					ring Loc		lan		30		very Bense	30 1	Tiuru	
H		ON OF BO	ICINO	DI				ation 1	lan							
ΙΞ	Pocket Penetrometer	Sample	Type		ws per Samp		Moisture Density	Strata	SOIL IDENTIFICATION							
DEPTH	(tsf)	Depths	of	Fre		То	or	Change			of soil, etc.					
			Sample	0-6			Consist.	Depth*			Ro	ск-сс	olor, type, condition,	, nardness		
		0.0-2.0	SS	6	19	18	Moist	0.2		Topsoil					/	
				14				1.0	\bowtie				ncrete fragments		lay/silt fines	
								2.0	X	FILL: Light	gray	mıx	of sand and grav	⁄el		
	3.75-4.25	2.0-4.0	SS	6	8	8	Moist	2.0	\bigotimes	FII I · Brow	n Ol	We .	and Gray Sandy	I ean Clay w	ith Gravel	
	3.13-7.23	2.0-4.0	33	8	U	O	1410121		X	I ILL. DIUW	11, OII	٠٧٠, ١	and Gray Sandy	Lan Ciay W	III Giavei	
									\boxtimes							
									\bowtie							
		4.0-6.0	SS	3	6	7	Very		\bowtie							
5	;			9			Moist	5.0	\boxtimes							
									X	FILL: Dark	gray	mix	of clay, sand, cin	nders, and gra	avel	
	1.0-2.0	6000	CC	2	3	1	Vom	6.0	\bowtie	EILL Most			vith sand and clay	./a:1+ f.m.a.a		
	1.0-2.0	6.0-8.0	SS	3	3	4	Very Moist		\boxtimes	FILL: MOSt	iy wo	oa w	in sand and clay	y/siit iines		
				'					\bowtie							
									\bowtie	Water Seep	nage a	at 8'				
		8.0-10.0	SS	3	3	3	Wet		X				10' depth sample	;		
				4					\bowtie		•					
									\bowtie							
10									X							
									\boxtimes							
									\bowtie							
									X							
									\boxtimes							
									\bowtie							
		13.5-14.3	SS	37	50/3"		Wet	13.5	\bowtie							
									X	FILL: Mix o	of lim	esto	ne fragments and	fines		
									\boxtimes							
15	;	15.0-15.2	SS	50/2"				15.0	X	D '11 T'			1 1			
								15.2		Possible Lir	nesto:	ne B	edrock 			
											ī	а∩т	TOM OF BORIN	NG: 15 2'		
											1	JU I	TOWI OF BOINI	10. 13.4		
1																

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB- 9
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 19-G-22606-A	DATE DRILLED	11/13/2019

CLII	ENI	NICKIII					11/13/2019								
	GROU	IND WATI	ER OB	SER	VAT	ION		•	tions Used Less than 5%	140 lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density Cohesive Consistency					
1	130 666	T BELOW SU	DEACE	ATC	OMDI	ETIO		race ew							
		T BELOW SU						ttle	5 to 10% 15 to 25%	0 - 10 10 - 30	Loose Medium Dense	4 - 8	Soft Medium Stiff		
_								ome	30 to 45%	30 - 50	Dense	8 - 15 15 - 30 30 +	Stiff Very Stiff		
_		T BELOW SU		AT _				ostly	50 to 100%	50 +	Very Dense	30 +	Hard		
		ON OF BO	KING				ring Loc	ation P							
Ħ	Pocket Penetrometer	Sample	Type		ws pe Samp		Moisture Density	Strata	ION						
DEPTH	(tsf)	Depths From To	of Samula	Fr	om	To	or	Change Remarks include color, type of soil, etc. Depth* Rock-color, type, condition, hardness							
			Sample	0-0	_	12-18									
		0.0-2.0	SS	12	7	7	Moist	1.5	FILL: Brown mix of sand, clay/silt fines, gravel, and cinder						
				6				1.5	FILL: Dark	brown mix	of sand, clay/si	ilt fines orav	el concrete		
		2.0-4.0	SS	6	6	8	Moist		and cinders	orown mix	or sand, cray/si	iit iiiies, grav	oi, concrete,		
				10					\bowtie						
		4.0-6.0	SS	9	16	3	Moist	5.0	\bowtie						
5				5				6.0	FILL D						
		6.0-8.0	SS	4	4	6	Moist	0.0	FILL: Gray		l, cinders, clay/				
				3				0.0	and brick		•	, 0	, ,		
		8.0-10.0	SS	2	3	2	Very	8.0	FILL Brow	n mix of cla	ay, sand, gravel	hrick and	rinders		
		0.0-10.0		2	-		Moist		I ILL. Blow	II IIIIX OI CIC	iy, sand, gravei	i, oriek, and v	mucis		
10									\bowtie						
									\boxtimes						
									\boxtimes						
								13.5 Water Seepage at 13'							
		13.5-15.0	SS	1	2	1	Wet	13.5			ders, wood, and	l oravel			
										or saira, eme	iers, wood, and	graver			
15									\bowtie						
									\boxtimes						
									\boxtimes						
	0.75-1.5	18.5-20.0	SS	1	2	3	Very	18.5	×						
		10.2 20.0		-	<u> </u>		Moist		FILL: Olive	Lean Clay	with Sand				
20									\bowtie						
									\bowtie						
									\bowtie						
								22.5	\bowtie						
		23.5-25.0	SS	5	8	17	Wet	23.5	FILL: Mix o	of limestone	fragments and	fine sand			
25	25							25.0		,	inaginonia and	inic build			
23															
										BOTT	OM OF BORI	NG: 25'			
			os none	<u> </u>	<u> </u>								_		

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



							IES) B	J٢	KING LO	G					
PRO	JECT NAN	ME <u>Buckey</u>	<u>e Auto</u>) Par	ts - 2	474]	McKinle	y Ave.,	Ca	olumbus, OH	[BOR	ING NO	DB-10
											PRO				F. ELEV	
CLI	ENT	McKin	<u>ley Av</u>	enue	Acq	<u>uisiti</u>	ons, LLC	<u> </u>			_ NO.	1 <u>9-</u> 0	<u>G-22606-A</u>	DAT	E DRILLED	<u>11/15/2019</u>
	GRO	UND WAT	ER OB	SER	VAT	ION		Propor	rti	ons Used			Wt. x 30" fa			
Ι,	NT							race		Less than 5%			less Density			· I
-		ET BELOW SU					I	ew ittle		5 to 10% 15 to 25%	0 - 10 -		Loos Medium Dens		0 - 4 4 - 8 8 - 15	Soft Medium Stiff
-		ET BELOW SU					Sc	ome		30 to 45%	30 -		Dens	se	8 - 15 15 - 30 30 +	Stiff Very Stiff
<u> </u>		ET BELOW SU						lostly		50 to 100%	50 +		Very Dens	se	30 +	Hard
		ION OF BC	DRING				ring Loc	ation P	laı	n						
Ħ	Pocket Penetrometer	Sample	Type		ws pe		Moisture Density	Strata					L IDENTIFICA			
DEPTH	(tsf)	Depths	of Sample	E.	om		or	Change Depth*					clude color, typor, type, conditi			
		From To	•	0-6		12-18		Deptn*		V				-		
		0.0-2.0	SS	16	18	16	Moist		\otimes	FILL: Dark	gray m	1X O	f concrete fra	agme	ents, gravel,	and sand
				10					\times							
								2.0	\boxtimes							
		2.0-4.0	SS	10	8	7	Moist		\times	FILL: Brow fines	n mix o	of sa	nd, gravel, ci	inde	rs, brick, and	d clay/silt
				/					\bigotimes	inies						
									\bigotimes							
		4.0-6.0	SS	4	3	2	Moist		\bigotimes	No recovery	for 4'	- 6' c	lepth sample	;		
1	5			1					\bigotimes							
									\bigotimes							
		6.0-8.0	SS	4	8	7	Moist		\otimes							
				6					\otimes							
									\otimes							
		8.0-9.4	SS	3	2	50/5'	Moist		\otimes							
		0.0).1						9.0								
		100102		50/0						Possible Lin	nestone	Bed	drock			
1	J	10.0-10.2	SS	50/2"	1	1	1	100	Щ	1						



BOTTOM OF BORING: 10.2'

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

PRO	JECT NAME Buckeye Auto Parts - 2474 McK	[В	ORING NO.	DB-11		
CLIE	ENT McKinley Avenue Acquisitions,	LLC		PROJ. NO. 19-		_	11/15/2019
	GROUND WATER OBSERVATION	Prop	ortions Used		Wt. x 30" fal		
	23.5 FEET BELOW SURFACE AT COMPLETION	Trace Few	Less than 570		Loose		Consistency Soft Medium Stiff

		T BELOW SU					Li	ttle	15 to 25%			
l _	FEET BELOW SURFACE AT HOURS							ostly	30 to 45% 30 - 50 Dense 15 - 30 Very Stiff 50 to 100% 50 + Very Dense 30 + Hard			
	LOCATI	ON OF BO	RING		Se	e Bo	ring Loc	Location Plan				
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	on	Samp om	ler To	Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness			
		0.0-2.0	SS	21	17	8	Moist		FILL: Brown and gray mix of sand, cinders, concrete			
				5					fragments, glass, and gravel			
		2.0-4.0	SS	8	4	2	Moist					
				2								
5		4.0-6.0	SS	1	2	1	Moist					
				1								
		6.0-8.0	SS	1	2	1	Moist					
		0.0.10.0	aa	1	4	2	X 7	8.0				
		8.0-10.0	SS	5	4	3	Very Moist		FILL: Brown mix of sand, clay/silt fines, gravel, and cinders Low recovery for 8' - 10' depth sample			
10									Low recovery for 8 - 10 depth sample			
		13.5-15.0	SS	15	6	8	Very	13.5				
		13.3 13.0		13			Moist		FILL: Dark gray mix of sand, gravel, concrete fragments, and cinders			
15									cinders			
		18.5-20.0	SS	6	8	3			2 10 51 201 1 1			
								20.0	No recovery for 18.5' - 20' depth sample Water Seepage at 20'			
20								20.0	FILL: Mix of limestone fragments and gravel			
		23.5-24.4	SS	14	50/5"		Wet	24.4				
25								24.4	\			
-									BOTTOM OF BORING: 24.4'			
\Box												

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB-12
	·	PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. <u>19-G-22606-A</u>	DATE DRILLED	11/15/2019

CLIE	ENT	McKin	ley Av	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC		NO. 19-G-22606-A DATE DRILLED 11/15/2019
	GROU	J ND WAT I	ER OB	SER	VAT	ION		Propor	rtions Used 140 lb Wt. x 30" fall on 2" O.D. Sampler
_1	18.0 FEE	ET BELOW SU	JRFACE	AT C	OMPL	ETIO	N Fe		Less than 5% Cohesionless Density Cohesive Consistency 5 to 10% 0 - 10 Loose 0 - 4 Soft 15 to 25% 10 - 30 Medium Dense 4 - 8 Medium Stiff 20 to 45% 30 50 Dense 8 - 15 Stiff
_	FEET BELOW SURFACE AT 24 HOURS							ttle ome	15 to 25% 10 - 30 Medium Dense 4 - 8 Medium Stiff 30 to 45% 30 - 50 Dense 15 - 30 Very Stiff
_	FEET BELOW SURFACE AT HOURS						RS M	ostly	30 to 45% 30 - 50 Dense 15 - 30 Very Stiff 50 to 100% 50 + Very Dense 30 + Hard
	LOCAT	ION OF BO	RING				ring Loc	ation P	lan
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	on Fro	ws pe Samp om	ler To	Moisture Density or	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	SS	0-6	6-12 19	12-18 20	Consist. Moist	F	FILL: Brown Sandy Lean Clay
		0.0-2.0	55	18	17	20	Wioist		TILL. Blown Sandy Lean Clay
	4.5+	2.0-4.0	SS	8	16	26	Moist	2.0	FILL: Olive and Gray Sandy Lean Clay with Gravel
				18				4.0	
5	2.25	4.0-6.0	SS	7	9	12	Moist		FILL: Gray mix of sandy lean clay, sand, cinders, and gravel
		6.0-8.0	SS	2	3	4	Moist	6.0	FILL: Dark gray mix of lean clay, sand, wood, and glass
		0.0-8.0	33	4	3	4	Moist		FILL: Dark gray mix of lean clay, sand, wood, and glass
		8.0-10.0	SS	6	8	4	Very	8.0	FILL: Mix of wood and gray clay
		0.0 10.0	55	2		•	Moist		No recovery for 8' - 10' depth sample
10									
		12.5.15.0	99				**	13.0	
		13.5-15.0	SS	5	3	5	Very Moist		FILL: Mix of wood and clay/silt fines
15									
								18.0	Water Seepage at 18'
		18.5-20.0	SS	11	6	9	Wet	18.0	FILL: Mix of limestone fragments, wood, sand, and fines
2.0									
20									
		22.0-22.2	SS	50/2"				22.0	
								22.2	Possible Limestone Bedrock
									DOTTOM OF BORDING 22.21
25									BOTTOM OF BORING: 22.2'
		figation lin	<u> </u>					<u> </u>	

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKin	nley Ave., Columbus, OH		BORING NO	DB-13
			PROJ.	SURF. ELEV	
CLIENT	McKinley Avenue Acquisitions, I	LC	NO. 19-G-22606-A	DATE DRILLED	11/15/2019
CDOUN	D WATED ODGEDVATION	Duanautions Used	140 lb W/t = 20" t	fall on 2" O.D. (Campler

CLIE	ENT	McKin	ley Av	<u>enue</u>	Acqı	<u>uisiti</u>	ons, LLC			NO. 1 <u>9-G-22606-A</u> DATE DRILLED <u>11/15/201</u> 9		
	GROU	J ND WAT I	ER OB	SER	VAT	ION		Propor	tions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler		
	Jone FFF	T BELOW SI	IDEACE	AT C	∩МРІ	FTIO		ace	Less than 5% 5 to 10%	Cohesionless Density 0 - 10 Loose 0 - 4 Soft		
1	None FEET BELOW SURFACE AT COMPLETION FEET BELOW SURFACE AT 24 HOURS						Li	ttle	15 to 25%	10 - 30 Medium Dense 4 - 8 Medium Stiff		
_	FEET BELOW SURFACE AT HOURS							ome ostly	30 to 45% 50 to 100%	30 - 50 Dense 15 - 30 Very Stiff 50 + Very Dense 30 + Hard		
		ON OF BO					ring Loc			144.0		
	Pocket			Blo	ws pe		Moisture	Strata		SOIL IDENTIFICATION		
DEPTH	Penetrometer	Sample Depths	Type of		Samp		Density	Change		Remarks include color, type of soil, etc.		
] ä	(tsf)	From To	Sample		6-12		or Consist.	Depth*		Rock-color, type, condition, hardness		
		0.0-2.0	SS	6	4	7	Moist	0.4	Topsoil			
				7					FILL: Brow	n mix of sand, gravel, and clay/silt fines		
									\boxtimes			
		2.0-4.0	SS	5	7	7	Moist		\bowtie			
				3					\boxtimes			
								4.0	×			
		4.0-6.0	SS	5	7	7	Moist		FILL: Brow Low recove	n mix of clay/silt fines, sand, and gravel ry for 4' - 6' depth sample		
5				,						ij iei i e aspin sampie		
		(0.00	aa		2				\bigotimes_{τ}			
		6.0-8.0	SS	2	3	3	Moist		Limestone f	ragments in sample		
									\boxtimes			
		9 0 10 0	SS	2	4	1	Maiat		\boxtimes			
		8.0-10.0	33	5	4	4	Moist					
									\boxtimes			
10									\boxtimes			
									\boxtimes			
									\boxtimes			
									\boxtimes			
									\bigotimes			
		13.5-14.6	SS	8	25	50/1"	Moist	140	\otimes			
								14.0	Possible Lin	mestone Bedrock		
15		15.0-15.1	SS	50/1"				15.1				
										BOTTOM OF BORING: 15.1'		

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PRO	JECT NAM	ле <u>виске</u> у	<u>e Auto</u>	<u>) Par</u>	<u>ts - 2</u>	4/41	<u>vickinie</u>	y Ave.,	<u>Columbus, Ol</u>	
CLIE	ENT	McKin	ley Av	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLC	C		PROJ. SURF. ELEV
	GROU	UND WATI	ER OB	BSER	VAT	ION		Propor	tions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler
							Tı	race	Less than 5%	Cohesionless Density Cohesive Consistency
1		ET BELOW SU						ew ittle	5 to 10% 15 to 25%	5 0 - 10 Loose 0 - 4 Soft 5 10 - 30 Medium Dense 4 - 8 Medium Stiff 6 20 50 Stiff
-		ET BELOW SU ET BELOW SU					Sc	ome lostly	30 to 45% 50 to 100%	Dense 15 - 30 Very Stiff
-		ION OF BO					ring Loc			50 T VELY DELISE SU TIALE
	Pocket				ows pe		Moisture			COIL IDENTIFICATION
DEPTH	Penetrometer (tef)	Sample Depths	Type of	on	n Samp rom	oler	Density	Strata Change		SOIL IDENTIFICATION Remarks include color, type of soil, etc.
DE	(tsf)		Sample		6-12		or Consist.	Depth*		Rock-color, type, condition, hardness
		0.0-2.0	SS	4	5	6	Moist	0.2	Topsoil	wn mix of sand, gravel, clay/silt fines, and cinders
			-	8	+				FILL: DIOV	wn mix of sand, graver, clay/sin times, and cinders
			-	+	+-	 			\bigotimes	
									\bigotimes	
			 	-	\vdash				\bigotimes	
								2.0	\(\)	
	4.5+	2.0-4.0	SS	12	10	5	Moist		FILL: Brov	wn Sandy Lean Clay
				8	+				\bigotimes	
				\Box	$oxed{oxed}$				\bigotimes	
			-	+	+	 			\bigotimes	
									\bigotimes	
			 	-	\vdash					
									\bigotimes	
		4.0-5.9	SS	2	1	2	Moist		No recover	ry for 4' - 5.9' depth sample
				50/5'	"	\vdash			\bigotimes	
								5.0	\bigotimes	
5				-	+-	\vdash		5.0	X FILL: Brov	wn Silty Sand with Gravel
								5.5	\bigotimes	•
				-	-				Possible Li	imestone Bedrock
								5.9	₩	
				+	+-					
										BOTTOM OF BORING: 5.9'
				-	-					201101101
				<u> </u>	<u> </u>					



^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

PROJECT NAME	Buckeye Auto Parts - 2474 McKi	nley Ave., Columbus, OH		BORING NO	DB-15
			PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, I	LC	NO. 19-G-22606-A	DATE DRILLED	11/18/2019
~~~~					

CLIE	ENT	McKin	ley Av	<u>enue</u>	Acqı	<u>uisiti</u>	ons, LLC		NO. 19-G-22606-A DATE DRILLED 11/18/2019	
	GROU	J <b>ND WAT</b> I	ER OB	SER	VAT	ION		•	tions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler
None FEET BELOW SURFACE AT COMPLETION								ace w	Less than 5% 5 to 10%	Cohesionless Density  0 - 10 Loose 10 - 30 Medium Dense  Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff
_	FEET BELOW SURFACE AT 24 HOURS					RS	<b>I</b>	ttle	15 to 25% 30 to 45%	15 Stiff   8 - 15 Stiff
_	FEE	ET BELOW SU	JRFACE	AT _	]	HOUR		ostly	50 to 100%	30 - 50 Dense 15 - 30 Very Stiff Hard
	LOCATI	ON OF BO	RING				ring Loc	ation P	lan	
TH	Pocket Penetrometer	Sample	Туре		ws per Samp		Moisture Density	Strata		SOIL IDENTIFICATION
DEPTH	(tsf)	Depths From To	of Sample	Fre	om	To	or	Change Depth*		Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
		0.0-2.0	SS	3	6-12	8	Consist.  Moist	_	X FILL: Brow	n mix of clay/silt fines, sand, and cinders
				8					$\bowtie$	for 0' - 2' depth sample
								2.0		
		2.0-4.0	SS	8	6	5	Moist		FILL: Mix o	of clay/silt fines, cinders, and gravel
				3					No recovery	for 2' - 4' depth sample
	4.5+	40.60	SS	(	(	0	M		$\bigotimes$	
_	4.3+	4.0-6.0	22	7	6	8	Moist	4.5	Brown mix	of silty sand, gravel, and sandy lean clay
3									$\bigotimes$	
	4.5+	6.0-8.0	SS	7	8	13	Moist			
				13					$\boxtimes$	
									$\bigotimes$	
	4.5+	8.0-10.0	SS	9 22	17	16	Moist		$\bigotimes$	
				22					$\boxtimes$	
10									$\bigotimes$	
									$\boxtimes$	
									$\bigotimes$	
									$\bigotimes$	
		12.5.12.7	GG.	50/2"					×	6 12 51 12 71 1 4
		13.5-13.7	SS	50/2"				13.5	Possible Lin	r for 13.5' - 13.7' depth sample mestone Bedrock
								_ ,		DOTTOM OF DODING, 12 7
15										BOTTOM OF BORING: 13.7'
				•					•	

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



PROJECT NAME	Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH		BORING NO	DB-16
		PROJ.	SURF. ELEV.	
CLIENT	McKinley Avenue Acquisitions, LLC	NO. 1 <u>9-G-22606-A</u>	DATE DRILLED	11/18/2019

CLIE	ENT	<u>McKin</u>	ley Av	<u>enue</u>	Acq	<u>uisiti</u>	ons, LLO	<u> </u>	NO. 19-G-22606-A DATE DRILLED 11/18/2019
	GROU	JND WATI	ER OB	SER	VAT	ION		Propor	rtions Used 140 lb Wt. x 30" fall on 2" O.D. Sampler
								race	Less than 5%   Cohesionless Density   Cohesive Consistency
1	lone FEE	ET BELOW SU	JRFACE	AT C	OMPL	ETIO	N Fe	ew	
	FEE	ET BELOW SU	JRFACE	AT 24	HOU	RS		ittle ome	20 45%   10 - 50   Median Belise   8 - 15   Stiff
	FEE	ET BELOW SU	JRFACE	AT		HOUR	I .	ome lostly	30 to 45%   30 - 50   Dense   15 - 30   Very Stiff   50 to 100%   50 +   Very Dense   30 +   Hard
		ON OF BO					ring Loc		<u> </u>
	Pocket			Blo	ws pe		Moisture		
DEPTH	Penetrometer	Sample Depths	Type of	on	Samp		Density	Strata Change	SOIL IDENTIFICATION  Remarks include color, type of soil, etc.
DE	(tsf)	From To	Sample			To	or	Depth*	Rock-color, type, condition, hardness
		0.0-2.0	SS	0-6 4	6-12	12-18 8	Consist.  Moist	1	FILL: Brown mix of clay/silt fines, sand, gravel, and brick
		0.0-2.0	33	·	9	0	Moist		
				7				2.0	No recovery for 0' - 2' depth sample
		2.0-4.0	SS	5	6	11	Moist		FILL: Gray Silty Sand with Gravel
				14				4.0	
_		4.0-6.0	SS	1	1	13	Moist		FILL: Brown mix of sand, gravel, concrete fragments, and
5				17				6.0	cinders
	3.0	6.0-8.0	SS	10	6	5	Moist	0.0	FILL: Brown mix of silty sand, sandy lean clay, and gravel
				6					
		8.0-10.0	SS	7	8	9	Moist	8.0	FILL: Brown mix of clay/silt fines, sand, gravel, brick, and
		0.0-10.0	33	12	0	9	Moist		cinders
10				12					No recovery fro 8' - 10' depth sample
10									X 100 100 100 10 10 10 10 10 10 10 10 10
		13.5-15.0	SS	3	1	1	Very	13.5	
							Moist		FILL: Brown Sandy Lean Clay; contains brick fragments
15									
								10.5	
	1.0	18.5-20.0	SS	7	5	5	Very Moist	18.5	FILL: Brown Sandy Lean Clay; contains wood and brick
ء ۽							1410121		fragments
20									
		22 5 25 0	CC	0	(	2	Var		
		23.5-25.0	SS	8	6	3	Very Moist		
25								25.0	<b>X</b>
									BOTTOM OF BORING: 25.0'
						I			

^{*} The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# APPENDIX I SCPZ DELINEATION DETERMINATION

# **Stream Corridor Protection Zone Delineation Determination**

The stream corridor protection zone for this development along the Scioto River has been determined using the COC SWDM 1.3.1 (Stream Corridor Protection Zone Delineation). Within this site, there are three separate locations in which the SCPZ had to be determined independently.

#### Southern Portion – Scioto River SCPZ

From the southern edge of Larrison Lake to the south, the SCPZ has been determined to be 50 feet from the top of bank of the Scioto River. This width is the largest of the three methods of determination, therefore it is the appropriate determination for the Scioto River.

#### Northeastern Portion - Larrison Lake Area

From the southern edge of Larrison Lake to the north, the SCPZ has been determined to be the same as the Federal Emergency Management Agency designated 100-year floodway. See Mass Excavation plans sheet 5 (Appendix G) for exact locations.

### Northern Portion - Unnamed Tributary of the Scioto River

From the northern border of the site to the west edge, the SCPZ has been determined to be the maximum width of 250'. The total tributary area of this stream is 5.88 square miles. Using the formula from COC SWDM 1.3.1, the width of the SCPZ equates to 288.2'. However, the maximum for this formula is 250' total width, therefore the SCPZ line for this portion of the site has been determined to be 125' offset from the centerline of the stream.

**APPENDIX J** 

**FEMA FIRMette** 

# NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by Franklin County. This information was produced at a scale of 1:1,200 from aerial photography dated 2004.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

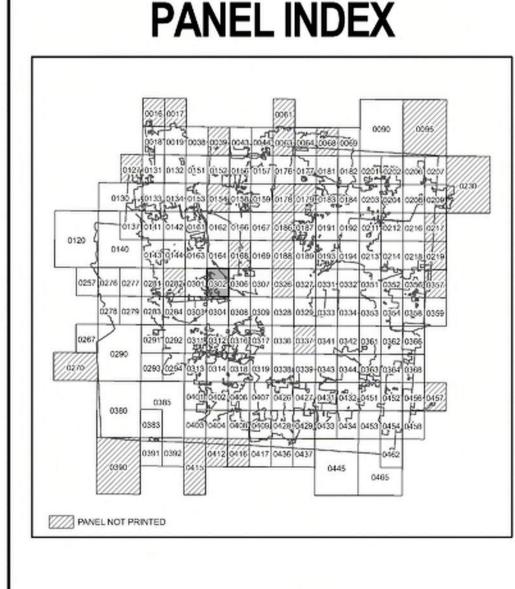
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

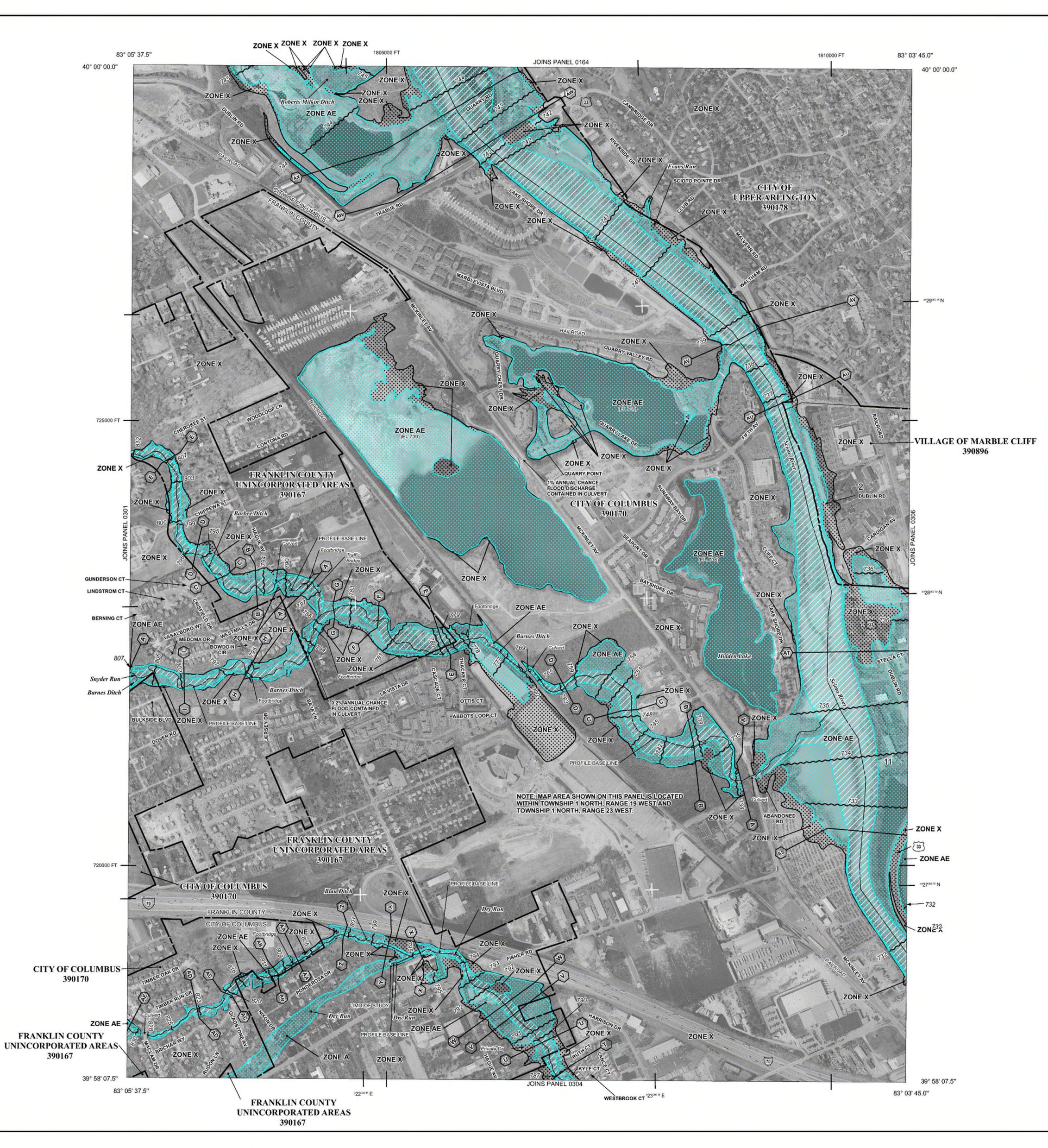
Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov/.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The "profile base lines" depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.





# LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A. AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined. ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain);

average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual decertified. Zone AR indicates that the former flood control system is

ZONE A99 Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

being restored to provide protection from the 1% annual chance or

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

Elevations determined.

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

Areas of 0.2% annual chance flood; areas of 1% annual chance flood

OTHER FLOOD AREAS

ZONE VE

ZONE D

with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513----Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;

elevation in feet* *Referenced to the North American Vertical Datum of 1988

 $\langle A \rangle$ Cross section line

(EL 10)

• M1.5

(2) - - - - - (2) Geographic coordinates referenced to the North American

85°03' 45.0", 41° 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 🗸

this FIRM panel)

MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP AUGUST 2, 1995 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

June 17, 2008 - to update corporate limits, to change Special Flood Hazard Areas, to update map format, to add roads and road names, to incorporate previously issued Letters of Map Revision, and

to reflect updated topographic information. For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



PANEL 302 OF 465

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

PANEL 0302K

CONTAINS: NUMBER PANEL SUFFIX

COLUMBUS, CITY OF MARBLE CLIFF, VILLAGE OF UPPER ARLINGTON, CITY OF

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown

above should be used on insurance applications for the subject MAP NUMBER



39049C0302K MAP REVISED **JUNE 17, 2008** 

390170 0302 K 390167 0302 K

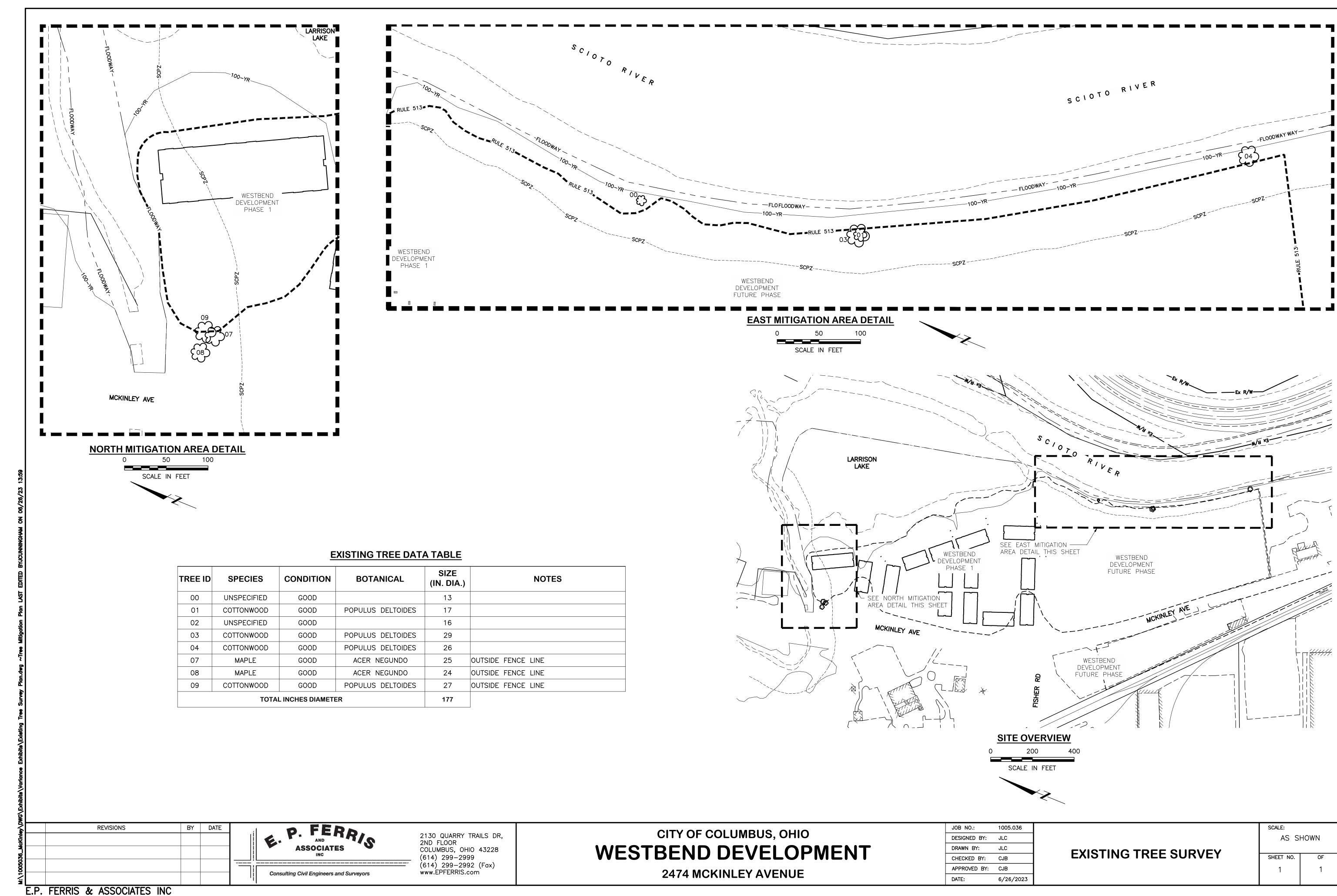
390896 0302 K

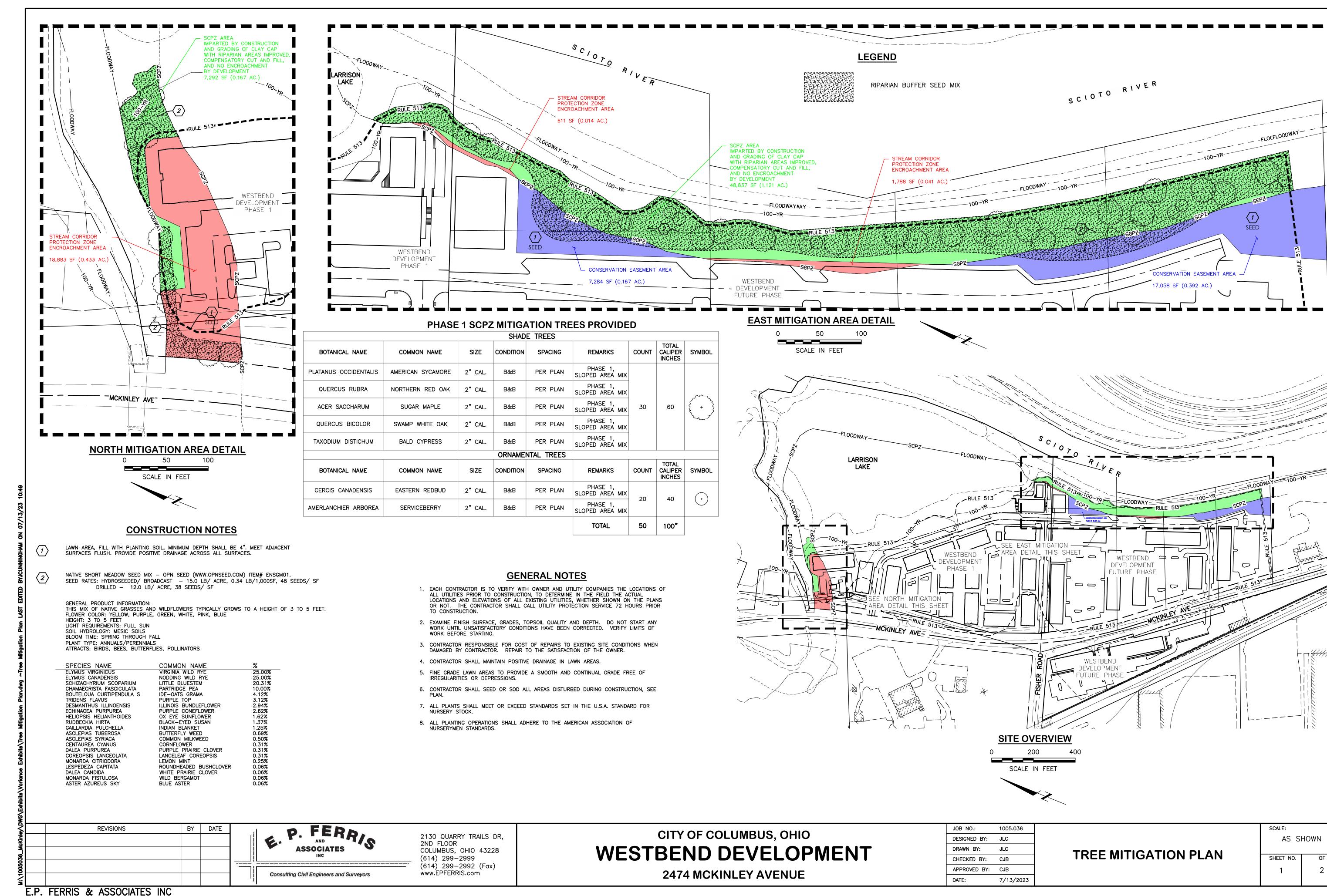
390178 0302 K

Federal Emergency Management Agency

# **APPENDIX K**

STREAM CORRIDOR PROTECTION ZONE MITIGATION PLAN & TREE SURVEY







CITY OF COLUMBUS, OHIO

WESTBEND DEVELOPMENT

2474 MCKINLEY AVENUE

2130 QUARRY TRAILS DR, 2ND FLOOR

COLUMBUS, OHIO 43228

(614) 299—2992 (Fax) www.EPFERRIS.com

(614) 299-2999

Consulting Civil Engineers and Surveyors

1005.036

7/13/2023

TREE MITIGATION PLAN

JLC

DESIGNED BY: JLC

CHECKED BY: CJB

APPROVED BY: CJB

DRAWN BY:

1" = 50'

SHEET NO.

E.P. FERRIS & ASSOCIATES INC

REVISIONS