

**2474 McKinley Avenue
Columbus, Ohio 43204**

PID: 010-146234, 010-146253, 010-200913, 010-146278, 010-104705, 010-107406, 010-200912

WestBend Development

Type II & III Variance Request Package



E. P. Ferris and Associates Inc.

Attn. Chad Buckley

(614) 299-2999

cbuckley@epferris.com



2130 QUARRY TRAILS DRIVE, 2ND FLOOR
COLUMBUS, OH 43228
614-299-2999 | 614-299-2992 FAX

January 13th, 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 and Type II Variance
Requests

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 and a Type II, Section 3.2 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's (OEPA) Voluntary Action Plan (VAP). This plan is currently under review by the OEPA. 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 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 area to the SCPZ of the Scioto River at a ratio greater than 1:1.

A Type II variance is also being requested for stormwater quantity controls as required by SWDM Section 3.2. Following the project's VAP with the OEPA to clean up former landfill / dumping site sections throughout the project site, deep dynamic compaction will be performed, and a clean clay cap will be installed across areas of existing trash within the project site. Thus, providing stormwater management quantity controls within the project footprint would introduce substantial hardship by breaching the installed environmental controls and potentially creating storage within contaminated soils. Additional hardship associated with providing stormwater management quantity in these areas would include necessary excavation through shallow limestone. Within the project site, the majority of the subsurface conditions are made up of either trash or unharvested limestone. The additional excavation and hauling of unsuitable soils and waste materials required to fully meet the City of Columbus SWDM's water quantity requirements would introduce substantial cost and scheduling hardships to the development of this site.

Our team respectfully requests approval of these variances for this project's preferred alternatives. 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.



Chad Buckley, PE
Project Manager

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Introduction

On behalf of Westbend QOZB, LLC, EPF is seeking approval of Type III and Type II variances from the COC SWDM Sections 1.3 and 3.2.

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 Ohio Environmental Protection Agency's (OEPA) Voluntary Action Plan (VAP). This plan is currently under review by the OEPA.

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 13 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 project's VAP, all areas within the project site's Rule 13 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 and providing more mitigated SCPZ area than the minimum required 1:1 ratio.

Type II, SWDM Section 3.2 Variance – Section 3.2 of the SWDM states that stormwater quantity control facilities shall be designed to control runoff from small, moderate, and large storm events before it is discharged offsite. However, with this site's unique conditions, a hardship exemption from this requirement is respectfully being requested. As previously described the project site is within the boundaries of an abandoned landfill / dumping site. The development will provide necessary controls to meet post-construction water quality requirements prior to routing runoff to the Scioto River, but quantity storage will not be provided to avoid additional environmental hardship to the proposed development, surrounding area and destruction of the VAP required four (4) foot earthen cap.

If stormwater detention were provided per the manual, nearly three hundred thousand (300,000) cubic feet of storage could be required across the project site, compared to the one hundred thousand (100,000) cubic feet of storage that is required for water quality. This much additional storage would introduce significant interruptions to the development's OEPA's VAP across the former landfill sections. Surface or underground storage systems could compromise the design integrity of the VAP, which was designed to not only create a four (4) foot point of contact barrier from human activity but is also meant to keep surface water from infiltrating into the trash layer. The introduction of water to the trash layer will create an unwanted environmental/biologic condition resulting in negative byproducts and impacts. To accommodate the additional storage required by water quantity, the detention system will need to be significantly larger which will cause the need for trash to be exported from the project site. Exporting of trash creates additional environmental impacts as the trash must be relocated to another active landfill and is a significant economic impact due to the cost of transporting the trash.

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 39.975467, -83.066291.

The majority 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 13 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 13 area and the existing SCPZ. This encroachment will allow these areas to be properly mitigated following the OEPA's VAP. 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 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. This compensatory cut and fill is detailed within the Mass Excavation plan for Phase 1, see Appendix G.

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 an active VAP, 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 directly adjacent to these areas on-site at a ratio greater than 1:1.

If full compliance with the SWDM was required, this project would not be permitted to complete the clean clay capping plan per its VAP along the eastern side of this project site currently within the Scioto River's SCPZ. Additionally, if these landfill sections within the existing Scioto SCPZ

were not capped, then development along the entire 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 greater than what is required and the variance will grant the project's reasonable use of this land to adequately complete the VAP and maximize its developable/recreational potential.

Type II, SWDM Section 3.2 Variance:

As required by the COC SWDM Section 3.2, stormwater quantity control facilities shall be designed for new development to control runoff from various storm events before being discharged offsite. For multiple reasons, a variance is being requested from this policy, specifically to be exempt from stormwater quantity controls due to various restrictive site conditions that create unusual design challenges.

Following the project's VAP, this project intends to clean up the former landfill sections throughout the project site within a designated Rule 13 boundary. This is being completed in an operation that involves deep dynamic compaction and the installation of a clean clay cap across areas of existing trash. The active plan will not only adequately prepare this site for development, but also help eliminate the local environment's direct exposure to waste and reduce potential contamination of surface or ground waters.

Due to the former landfill sections previously described, stormwater quantity controls within these areas would risk contamination and would induce hardship to the project by breaching the installed environmental controls as required by its VAP. Keeping rainwater from seeping into the existing trash once the clay cap is in place is essential to preventing formation of potentially hazardous waste gases. The proposed WestBend Development will provide water quality control via vegetated swales, pervious pavers and storage chambers ultimately out letting into the Scioto River.

By granting this variance request, this project would be exempt from stormwater quantity controls. Despite the various hardship conditions this project faces, this exemption would allow for the preferred development plan and would ensure the proper execution of the VAP.

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.

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 VAP through the OEPA to provide four (4) foot capping of solid waste areas prior to development. 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, east of McKinley Avenue would remain undeveloped.

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 VAP 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 1.071 acres of SCPZ encroachment, with only 0.119 acres permanently removed from the SCPZ. Total SCPZ 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 1.13:1 and will result in 0.134 acres of new SCPZ to be protected from future development.

There is a significant portion of the SCPZ along the eastern edge of the project site that is currently junkyard and within the Rule 13 area. These areas will be remediated and improved with the rest of the site, ensuring all the Rule 13 area on site is remediated per the VAP. As shown in Appendix F, 0.952 acres of this area will not be developed and will remain a part of the SCPZ, improving its function for the Scioto River.

Type II, SWDM Section 3.2 Variance

No Impact/Degradation Development Alternative Fully Complying with SWDM:

The no impact options for this project related to providing stormwater quantity will significantly reduce the effectiveness of the site remediation per the OEPA's VAP. Unfortunately, providing for stormwater quantity controls at the volumes required by the SWDM would require water quantity storage to extend deep, interfering with the proposed function of the four (4) foot clay cap. In addition to the impacts on the VAP, fully meeting the requirements in the SWDM would require an additional two hundred thousand (200,000) cubic feet of storage on site, for a grand total of three hundred thousand (300,000). This additional storage requirement would introduce

significant financial hardships on the project, which would threaten to make the project not economically viable. Removing unsuitable soils and trash from the site is much more expensive than traditional cut, at around \$2.22 per cubic foot of trash and unsuitable soil removed. Storage generally costs around \$20 per cubic foot installed. This option would cost the development an additional \$4,754,960, being \$4,000,000 in additional storage (200,000 cf X \$20/cf) and \$754,960 in trash and unsuitable soil removal (200,000 cf + 140,072 cf excess excavation X \$2.22/cf). With these additional costs, the development may not be economically viable.

Minimal Impact/Degradation Development Alternative Plan:

The minimal impact development plan for this site involves meeting the SWDM requirements to the critical storm (25 year) reduction to the 1 year pre-developed stormwater flows, but keeping the 50 and 100 year storms at their predeveloped flows, not reducing them to the 10 year storm flow. Proceeding with these calculations, that would require the site to provide an additional fifty thousand (80,000) cubic feet of storage. This option would greatly reduce the costs involved in the installation of the stormwater detention systems and would minimize the impact on the site remediation per the VAP. This option would cost the development an additional \$1,964,176, being \$1,600,000 in additional storage (80,000 cf X \$20/cf) and \$364,176 in trash and unsuitable soil removal (80,000 cf + 84,043 cf excess excavation X \$2.22/cf). With this reduction, the site development stands a greater chance of being economically viable.

Preferred Development Plan:

The preferred development plan resulting from a stormwater quantity control variance would reflect the site plans provided in Appendix E. Undetained stormwater runoff will be discharged through quality controls, then directly to the Scioto River or Larrison Lake. Without the need for extensive underground detention, areas of existing trash would be completely capped per the VAP, improving the quality of the water discharging into the Scioto River. The existing site has locations of surface trash and is currently undetained. The preferred development plan would allow the project site to improve the quality of the runoff into the Scioto River.

Section 3 – Demonstration of Adequate Mitigation

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 VAP 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 1.071 acres of the Scioto River delineated SCPZ along the eastern side of the project site will be impacted for necessary landfill capping and development grading, with 0.119 acres permanently removed from the SCPZ. This encroachment will be mitigated at a ratio of approximately 1.13:1 in the location as depicted in Appendix F, by dedicating 0.134 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 0.952 acres of SCPZ that is encroached upon for remediation purposes then will be returned to the SCPZ. 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.

Section 4 – Executive Summary

Unique conditions of the WestBend Development present various unusual design and constructability challenges to be considered. However, by granting the Type III and Type II SWDM variances 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 VAP and improve the corridors of the Scioto River SCPZ by enhancing the environmental conditions and setting aside more 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 above-mentioned variances from the SWDM.

APPENDIX A
SITE LOCATION MAP

**Franklin County
Auditor's Office
Auditor
Michael Stinziano**

Map Produced October 21, 2022

Planimetric Legend

Source: 2021 Aerial Photography

- Edge of Pavement
- Roadway Centerlines
- Railroad Centerlines
- Building Footprints
- Building Under Construction
- Creeks, Streams, Ditches
- Rivers & Ponds

Topographic Legend

Source: OSIP - 2019 LiDAR Collection

- Spot Elevation
- Index Contour
- Intermediate Contour

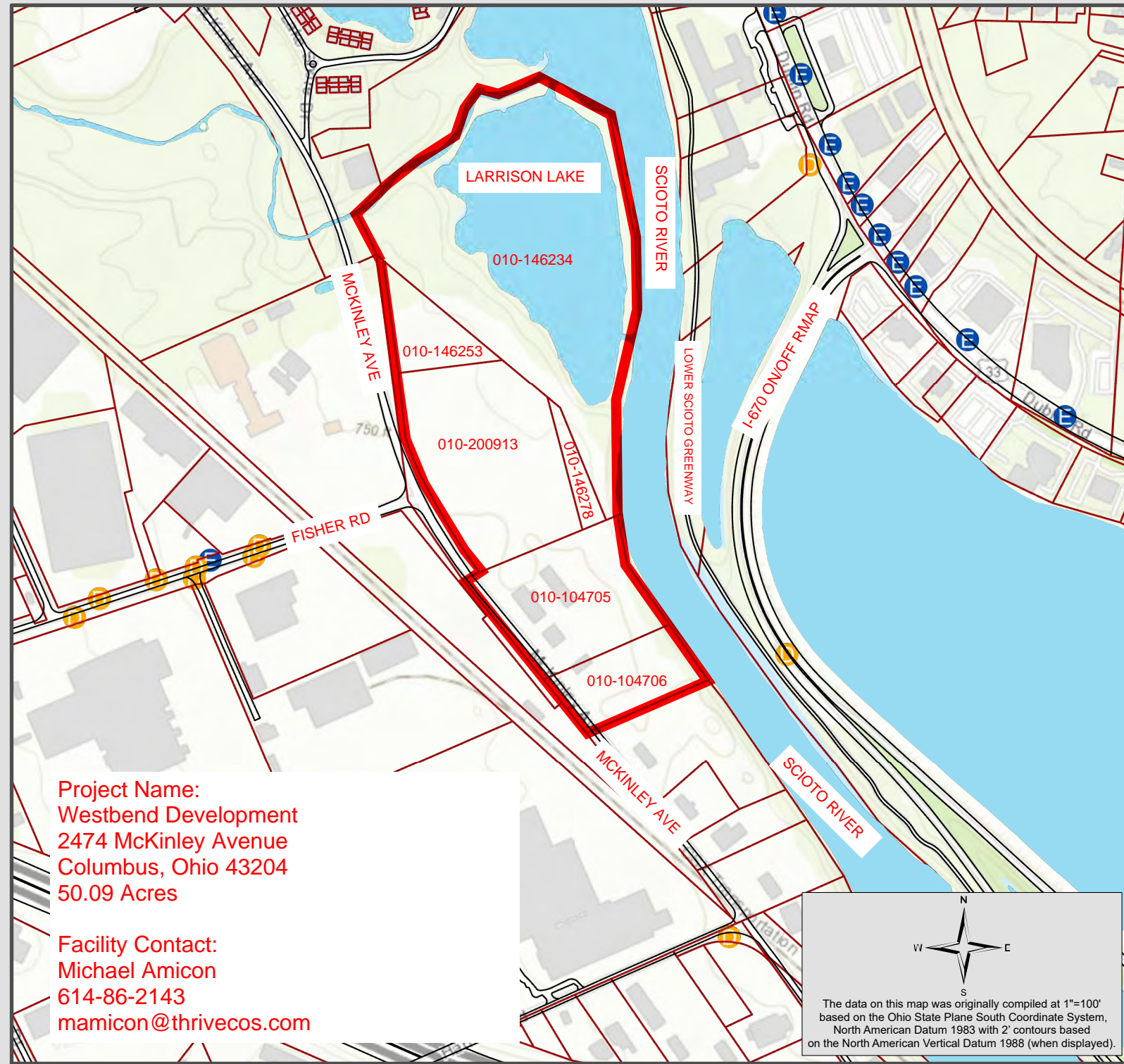
Appraisal Legend

Source: Franklin County Auditor & Engineer

- Parcel IDs
- Parcel Dimensions
- Lot Numbers
- Site Address
- Parcel Boundary
- Subdivision Boundary
- Condominium Boundary
- County Boundary
- City or Village Boundary
- Tax District Boundary
- School District Boundary
- Zip Code Boundary

This map is prepared for the real property inventory within the county. It is compiled from record deeds, survey plats, and other public records and data. Users of this map are notified that the public primary information sources should be considered for verification of the information contained on this map. The county and the mapping companies assume no legal responsibility for the information contained on this map. Please notify the Franklin County Auditor's GIS Department of any discrepancies.

For scaled maps, please visit the parcel viewer at <https://gis.franklincountyohio.gov/parcelviewer>



The data on this map was originally compiled at 1"=100' based on the Ohio State Plane South Coordinate System, North American Datum 1983 with 2' contours based on the North American Vertical Datum 1988 (when displayed).

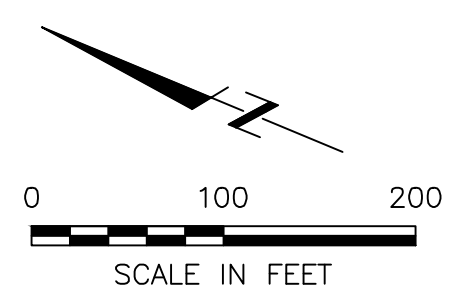
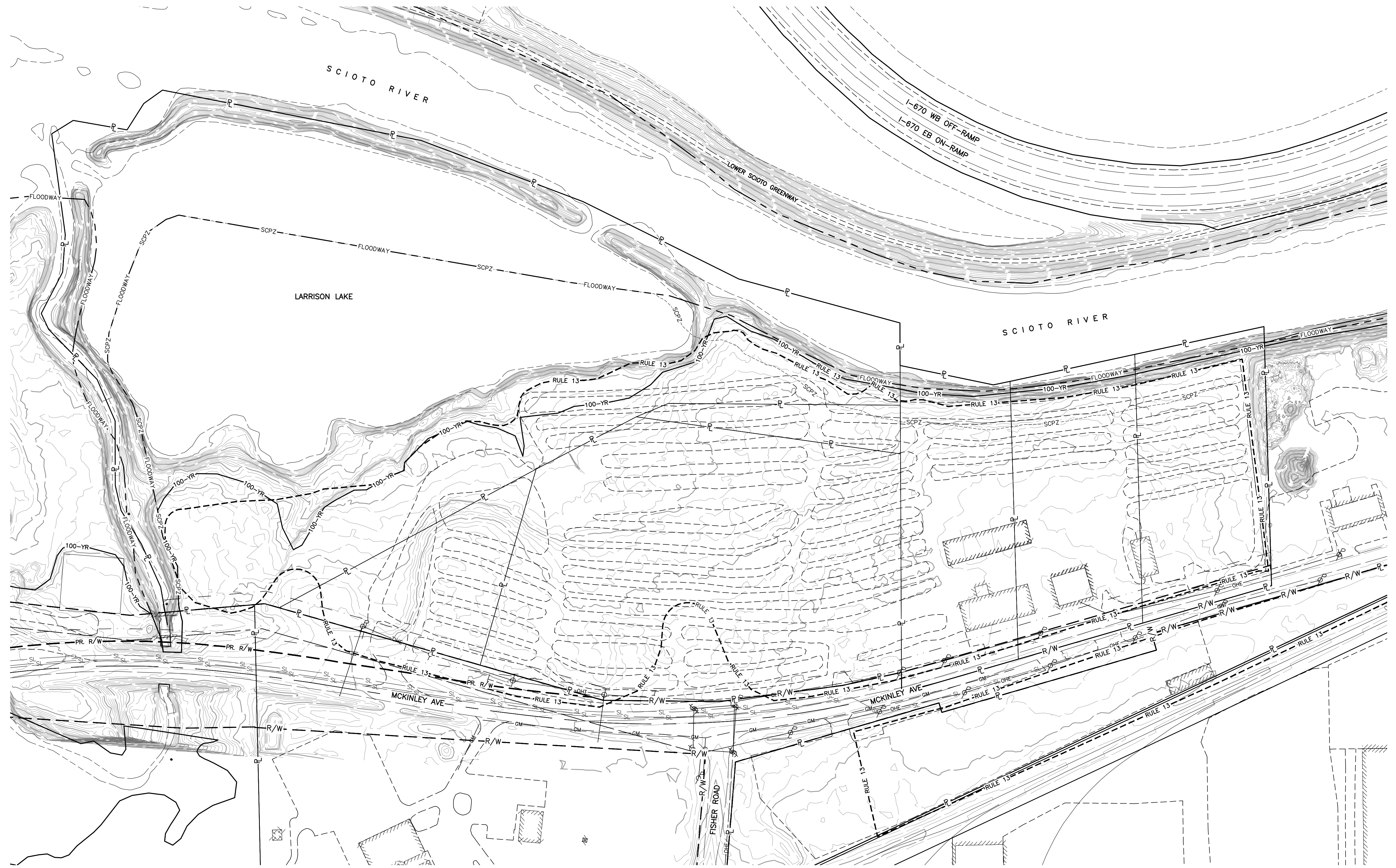
Project Name:
Westbend Development
2474 McKinley Avenue
Columbus, Ohio 43204
50.09 Acres

Facility Contact:
Michael Amicon
614-86-2143
mamicon@thrivecos.com

APPENDIX B

EXISTING CONDITIONS OVERVIEW MAP

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REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND
ASSOCIATES
 INC
 Consulting Civil Engineers and Surveyors

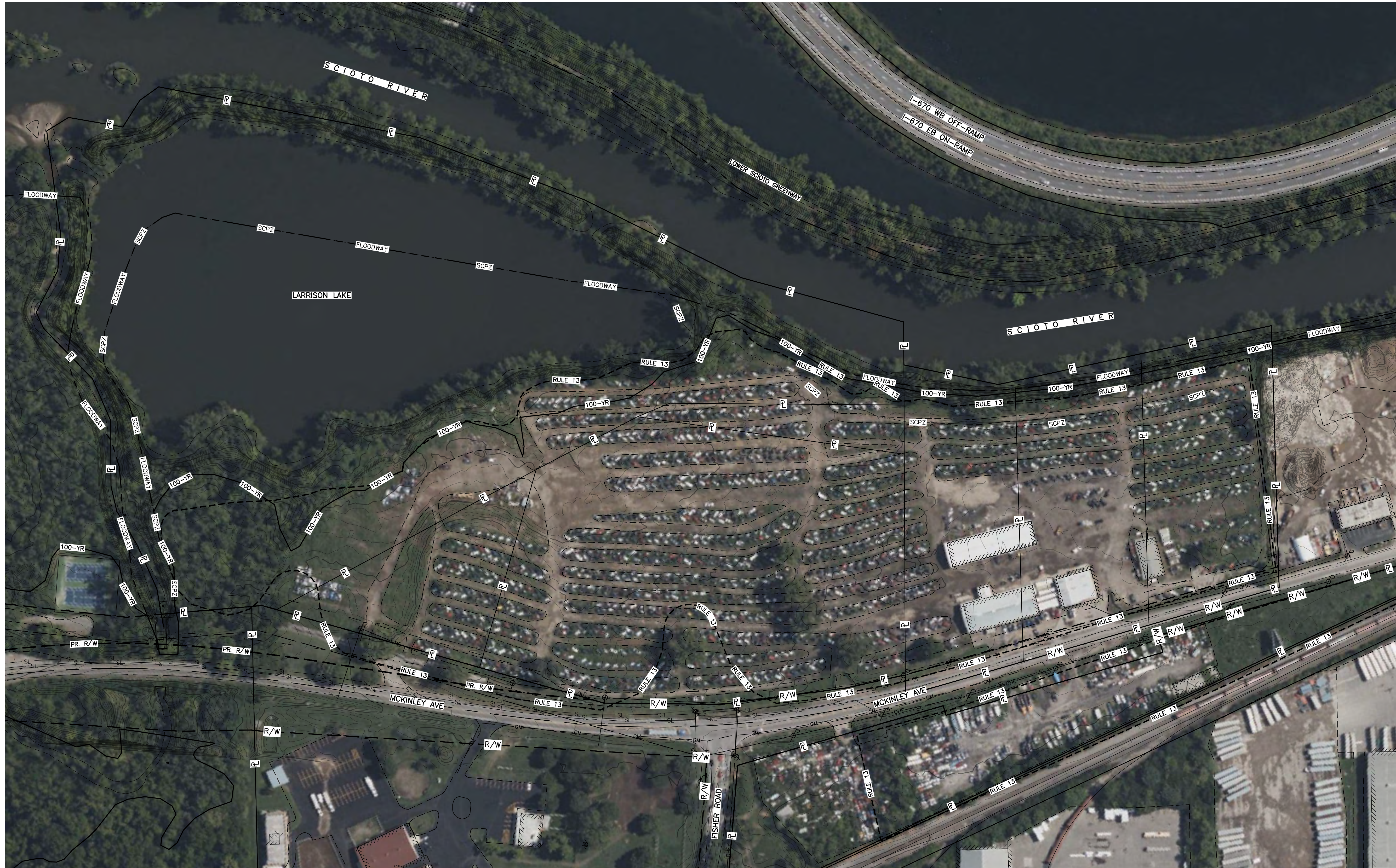
2130 QUARRY TRAILS DR,
 2ND FLOOR
 COLUMBUS, OHIO 43228
 (614) 299-2999
 (614) 299-2992 (Fax)
 www.EPFERRIS.com

CITY OF COLUMBUS, OHIO
WESTBEND DEVELOPMENT
 THRIVE COMPANIES

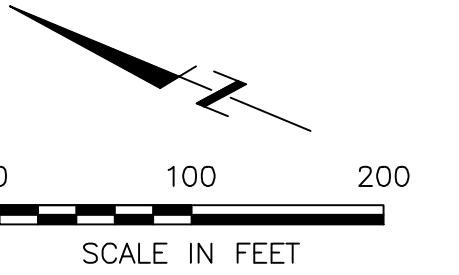
JOB NO.:	1005.036
DESIGNED BY:	JLC
DRAWN BY:	JLC
CHECKED BY:	CJB
APPROVED BY:	CJB
DATE:	1/17/2023

EXISTING CONDITIONS
OVERVIEW MAP

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



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REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND
ASSOCIATES
 INC
Consulting Civil Engineers and Surveyors

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:	1/17/2023

EXISTING CONDITIONS
OVERVIEW MAP

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

APPENDIX C
ALTA SURVEY

POSTED ADDRESS:
2474 McKinley Ave
GRANTOR / CURRENT OWNER:
PAINE-MCKINLEY PROPERTIES II LLC
RECORDED DEED
Paine-McKinley Properties II, LLC Who acquired said interest in Instrument 201011170154929, filed November 17, 2010 in the 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.

NOTES:
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 January 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 in the document recorded as Deed Book 2443 Page 520. (As to Parcels I-II) Shown on Survey.
- 11. Easement contained in the Deed of record in Deed Book 466 Page 128. (As to Parcels III, IV and VI) Shown on Survey.
- 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) Easement for pole line along McKinley Ave. Affects subject property. Exact location unknown.
- 13. Easement granted to The Ohio Bell Telephone Company, as more fully set forth in the document recorded as Deed Book 1033 Page 227. (As to Parcel V) Not on Property.
- 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) Easement for pole line along McKinley Ave. Affects subject property. Exact location unknown. Width of easement not specified.
- 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 to Parcels III-IV) Easement for anchor placement along McKinley Ave. Affects subject property. Exact location unknown.
- 16. Easement granted to The Columbus Railway, Power & Light Company, as more fully set forth in the document recorded as Deed Book 1048 Page 599. (As to Parcels III-IV) Easement for pole line along McKinley Ave. Affects subject property. Exact location unknown. Exhibit "A" not provided.
- 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) Easement for pole line. Affects subject property. Exact location unknown.
- 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 III-IV) Affects subject property. Exact location unknown. The documents are illegible.
- 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) Shown on Survey.
- 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) Shown on Survey.
- 21. Easement as more fully set forth in the document recorded as Deed Book 2879 Page 394. (As to Parcels III-IV) Not on Property.
- 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) Shown on Survey.
- 23. Easement granted to The Ohio Bell Telephone Company, as more fully set forth in the document recorded as Deed Book 3126 Page 148. (As to Parcels III-IV) Shown on Survey.
- 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 III-IV) Affects subject property. Easements do not mathematically close. Exact location unknown.
- 25. Agreement between Adjoining Owners Fixing Common Line by and between Joseph B. Ridolfo and Lula Ridolfo and Robert Lyman Dye and Eva Delie Dye Butts, Trustees of record in Miscellaneous Record 143 Page 244. (As to Parcels III-IV) No survey items to plot.
- 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 III-IV) No survey items to plot.
- 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 VI) Shown on Survey.
- 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) Shown on Survey.
- 29. Easement as more fully set forth in the document recorded as Deed Book 645 Page 371. (As to Parcel V) Shown on Survey.
- 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 III-IV) Shown on Survey.
- 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-IV) No survey items to plot.

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 8

APPARENT ENCROACHMENTS:
Appears existing fence encroaches. Ownership unknown.

Existing sanitary sewer appears to encroach outside of existing easement.

Existing waterline appears to encroach easement not provided.

Existing Billboard appears to encroach. Easement not provided.

ZONING
Not provided.

Legend

- Gas Marker Post
- Electrical Transformer
- Air Conditioning Unit
- Ex. Telephone Pedestal
- Ex. Valve, W- 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
- 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
- Pony Spike Set
- Ex. Street Sign
- Ex. Mailbox
- Yard Drain (YD)
- Ex. Underground Telephone
- Ex. Gas Line
- Ex. Water Line
- Ex. Fiber Optic
- Ex. Fence
- Property Line
- Right-of-Way
- Deed bearing and distance
- Measured bearing and distance
- Point of Commencement
- Point of Beginning

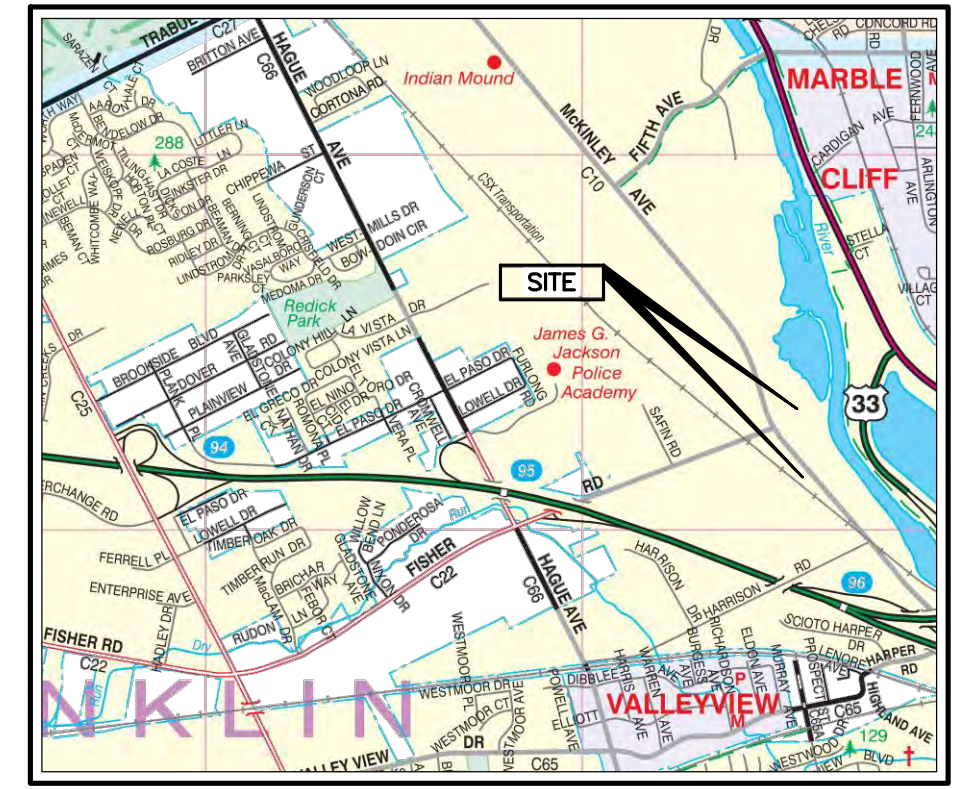
E. P. FERRIS
AND ASSOCIATES
INC.
880 KING AVENUE
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ALTA / NSPS LAND TITLE SURVEY

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)
TRACT I:
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 Northwest corner of said 9.46 acre tract, thence N. 67° 56' 11" E. a distance of 659.52 feet to a point in the Northeast corner of said 9.46 acre tract;
thence S. 10° 1' 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.

TRACT II:
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 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:
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 said 9.46 acre tract;
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 and 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 the 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:
Beginning at the southwesterly corner of the above 9.46 acre tract and being bounded as follows:
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 Southeast 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 beginning and containing 3.19 acres of land, more or less.

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 Trabeu 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 Trabeu 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. Trabeu's Heirs Subdivision as same is shown in Plat Book 5, Page 265, Recorder's Office, Franklin County, Ohio.

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 2.68 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 follows:
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; thence 507.92 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 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 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 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. 0369614 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 3506, Page 342,
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 McKinley Avenue,
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 used as the basis.
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 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 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 used as the basis.
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 on top.

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 plot 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 ALTA and NSPS, and includes Items 1,2,3,4,7(a),7(b),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.



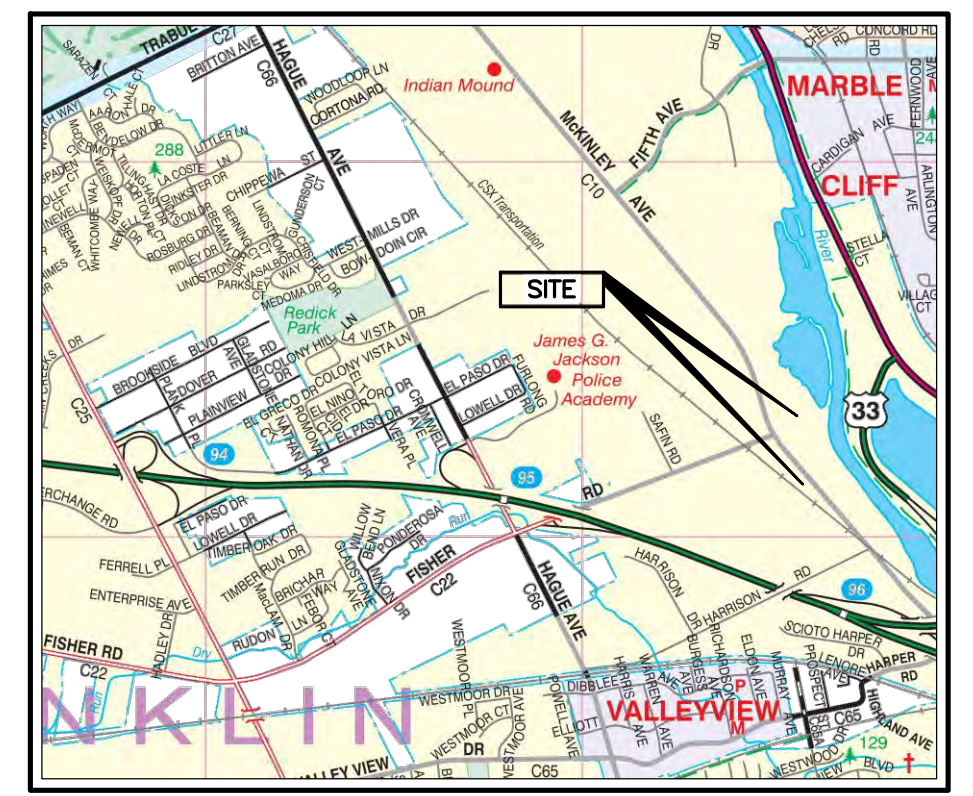
PRELIMINARY
By: Matthew Lee Sloat, P.E., P.S.
Registered Surveyor No. 8342
DRWN BY CRK CHK BY MLS DATE 08-23-19
708763

ALTA / NSPS LAND TITLE SURVEY

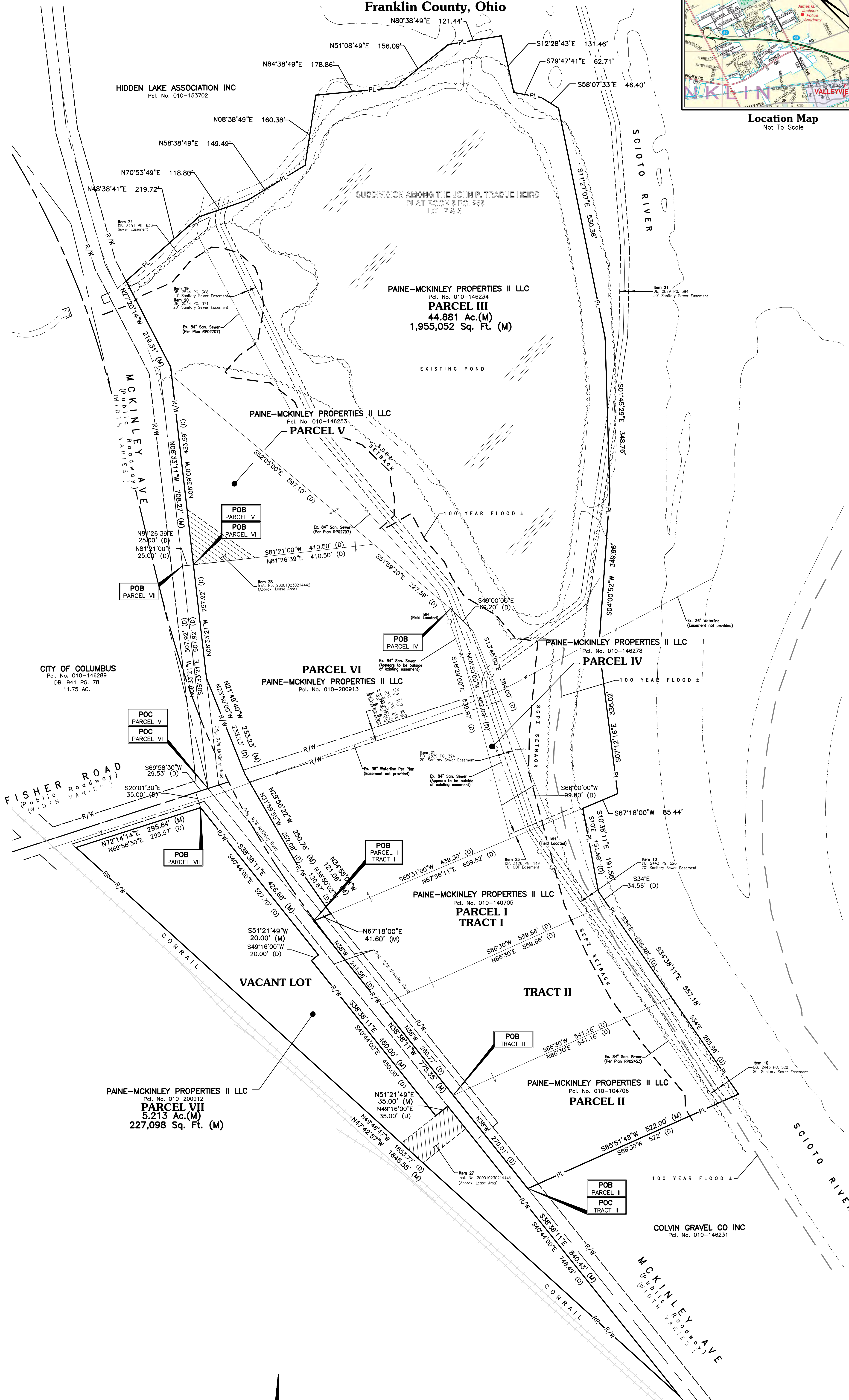
2474 McKinley Ave

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



HIDDEN LAKE ASSOCIATION INC
Pcl. No. 010-153702

SUBDIVISION AMONG THE JOHN P. TRABUE HEIRS
PLAT BOOK 5 PG. 265
LOT 7 & 8

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-146234
PARCEL III
44.881 Ac.(M)
1,955,052 Sq. Ft. (M)

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-146253
PARCEL V

PARCEL VI
PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-200913

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-146278
PARCEL IV

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-140705
PARCEL I TRACT I

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-104706
PARCEL II

PAINÉ-MCKINLEY PROPERTIES II LLC
Pcl. No. 010-200912
PARCEL VII
5.213 Ac.(M)
227,098 Sq. Ft. (M)

COLVIN GRAVEL CO INC
Pcl. No. 010-146231

CITY OF COLUMBUS
Pcl. No. 010-146289
DB. 941 PG. 78
11.75 AC.

E. P. FERRIS
AND ASSOCIATES
INC

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

Scale: 1" = 100'

PRELIMINARY

DRWN BY CRK CHK BY MLS DATE 08-23-19

708763

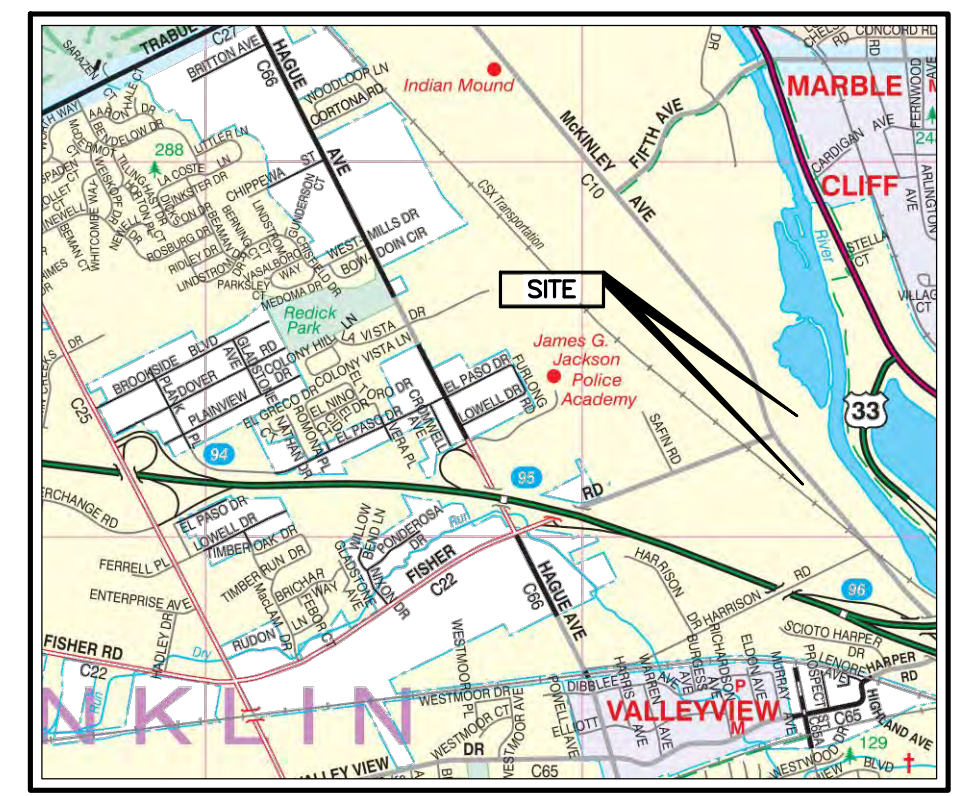
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 ALTA
 LAST EDITED: 8/23/19
 8/23/19

ALTA / NSPS LAND TITLE SURVEY

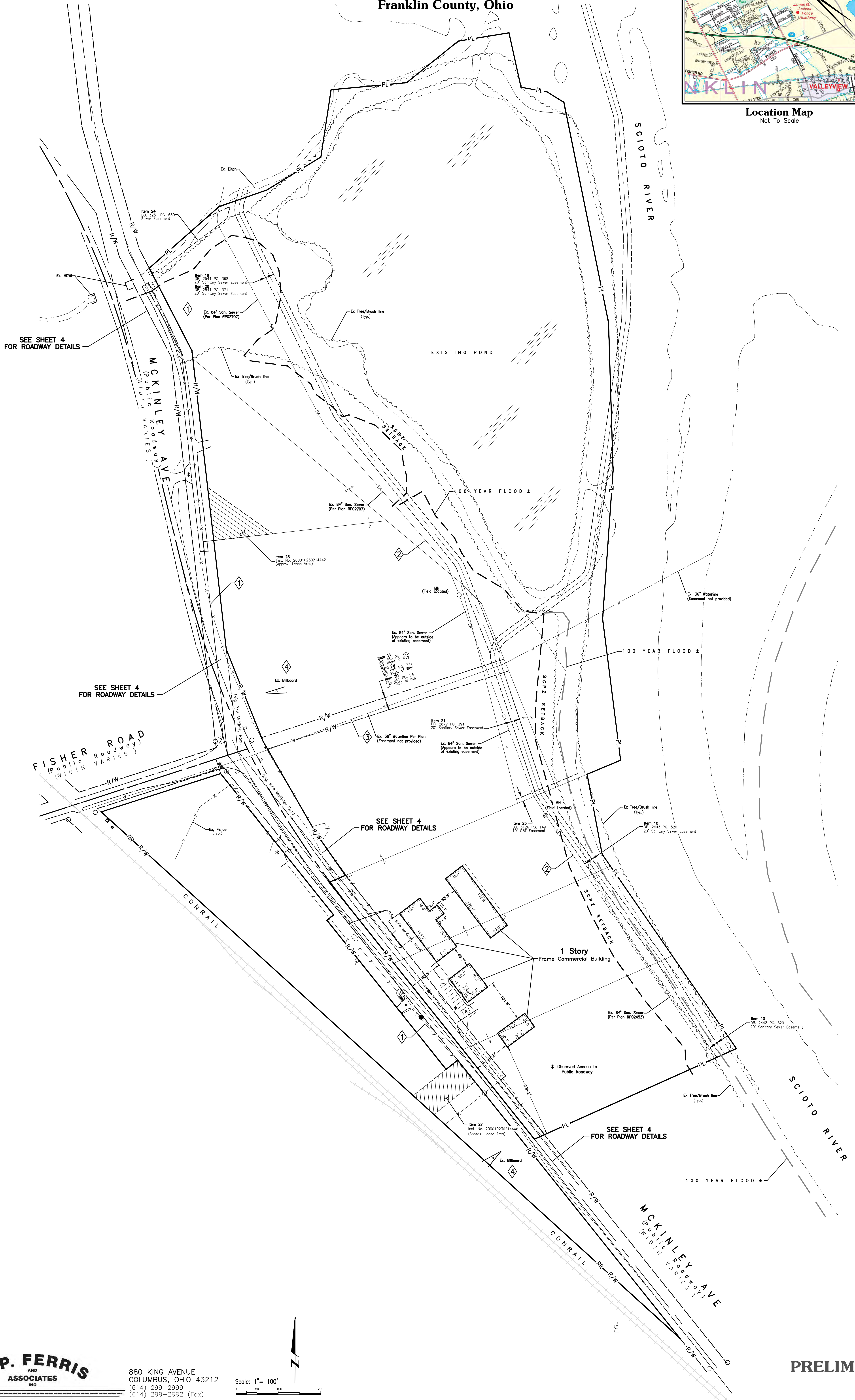
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City of Columbus
Franklin County, Ohio



Location Map
Not To Scale



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AND
ASSOCIATES
INC.

880 KING AVENUE
COLUMBUS, OHIO 43212
(614) 299-2999
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Scale: 1" = 100'

PRELIMINARY

DRWN BY CRK CHK BY MLS DATE 08-23-19

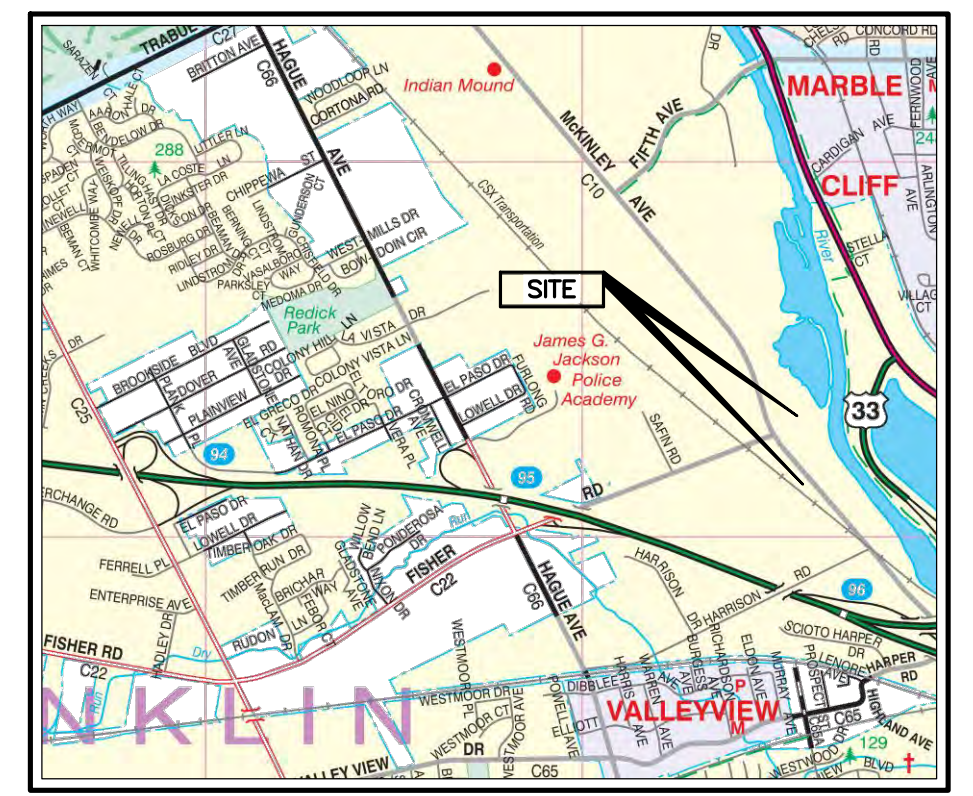
708763

ALTA / NSPS LAND TITLE SURVEY

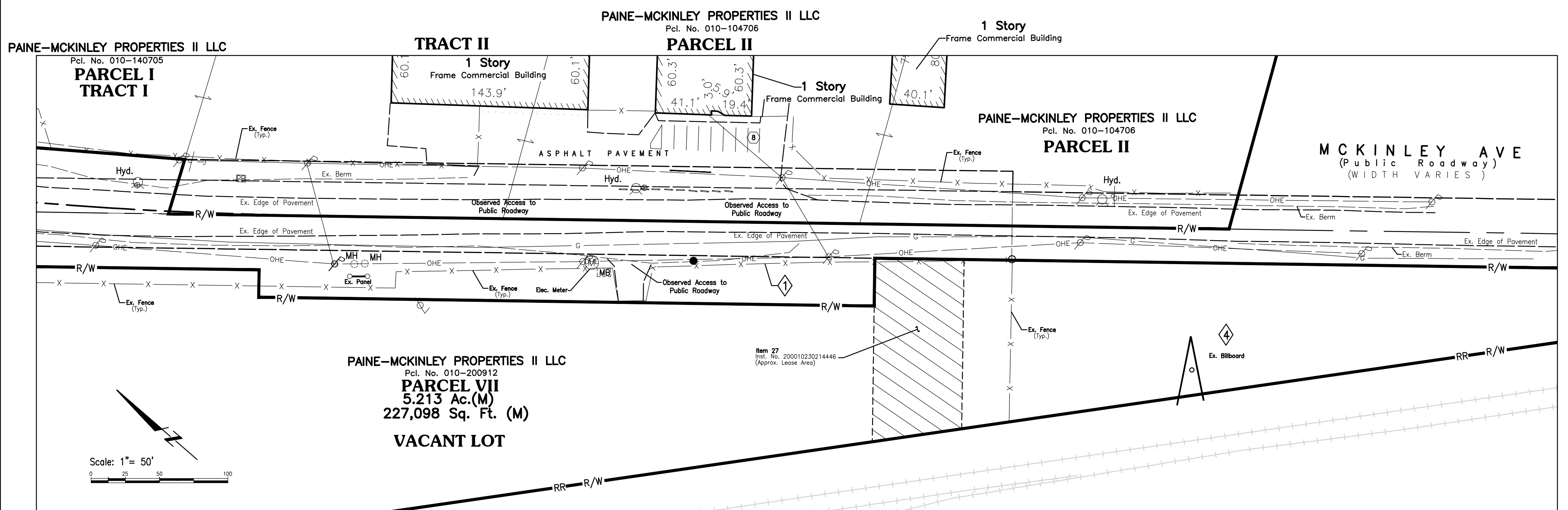
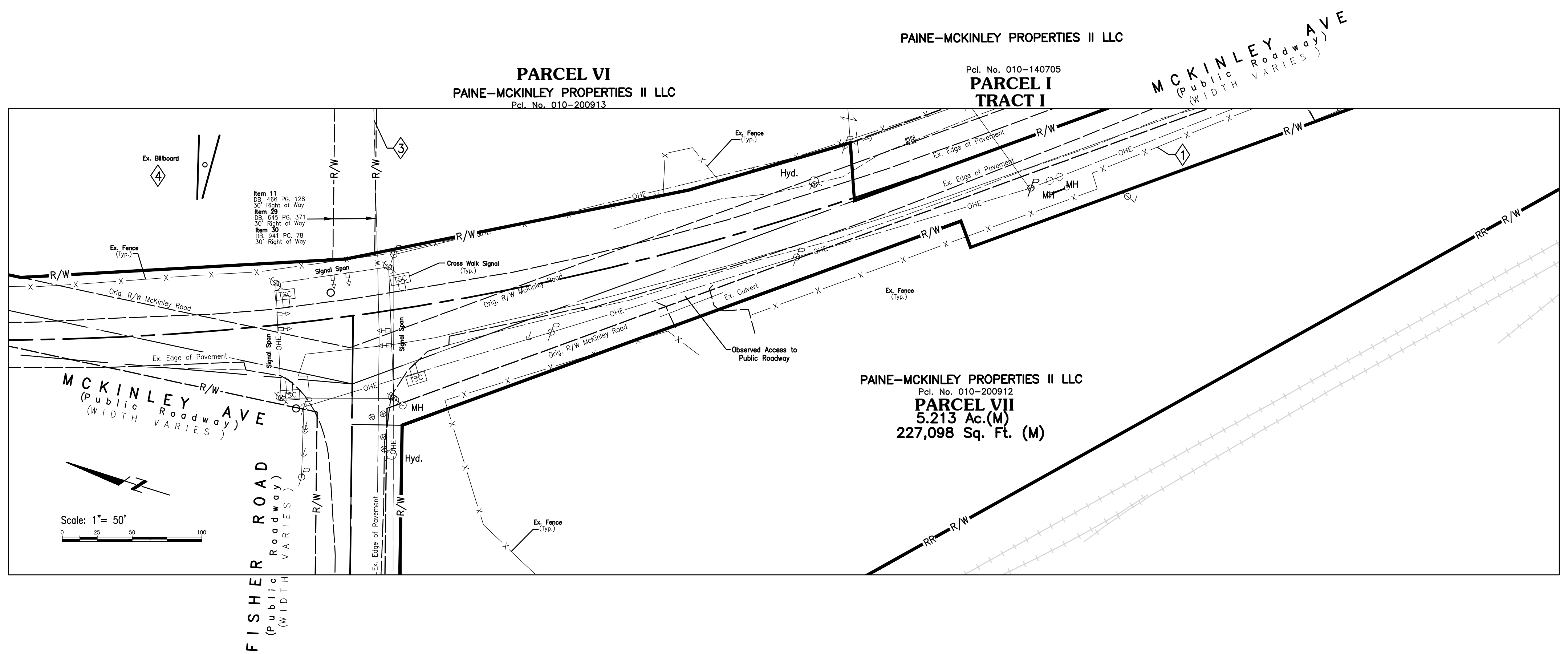
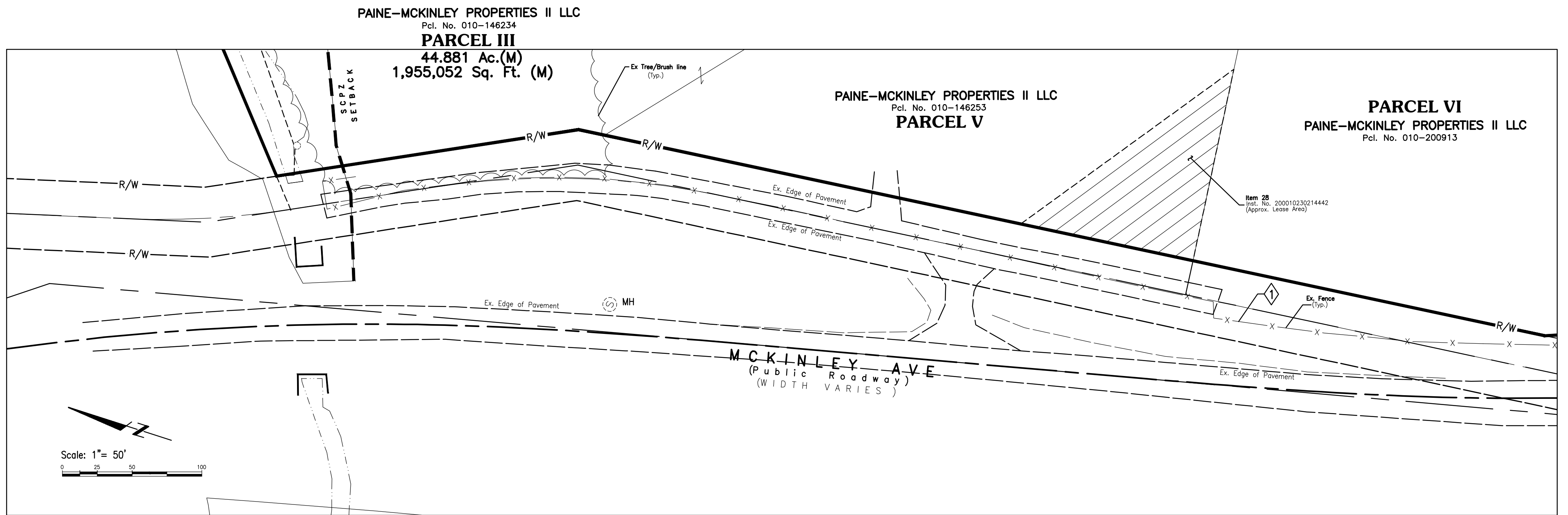
2474 McKinley Ave

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City of Columbus
Franklin County, Ohio



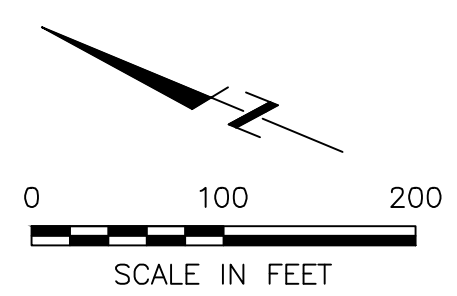
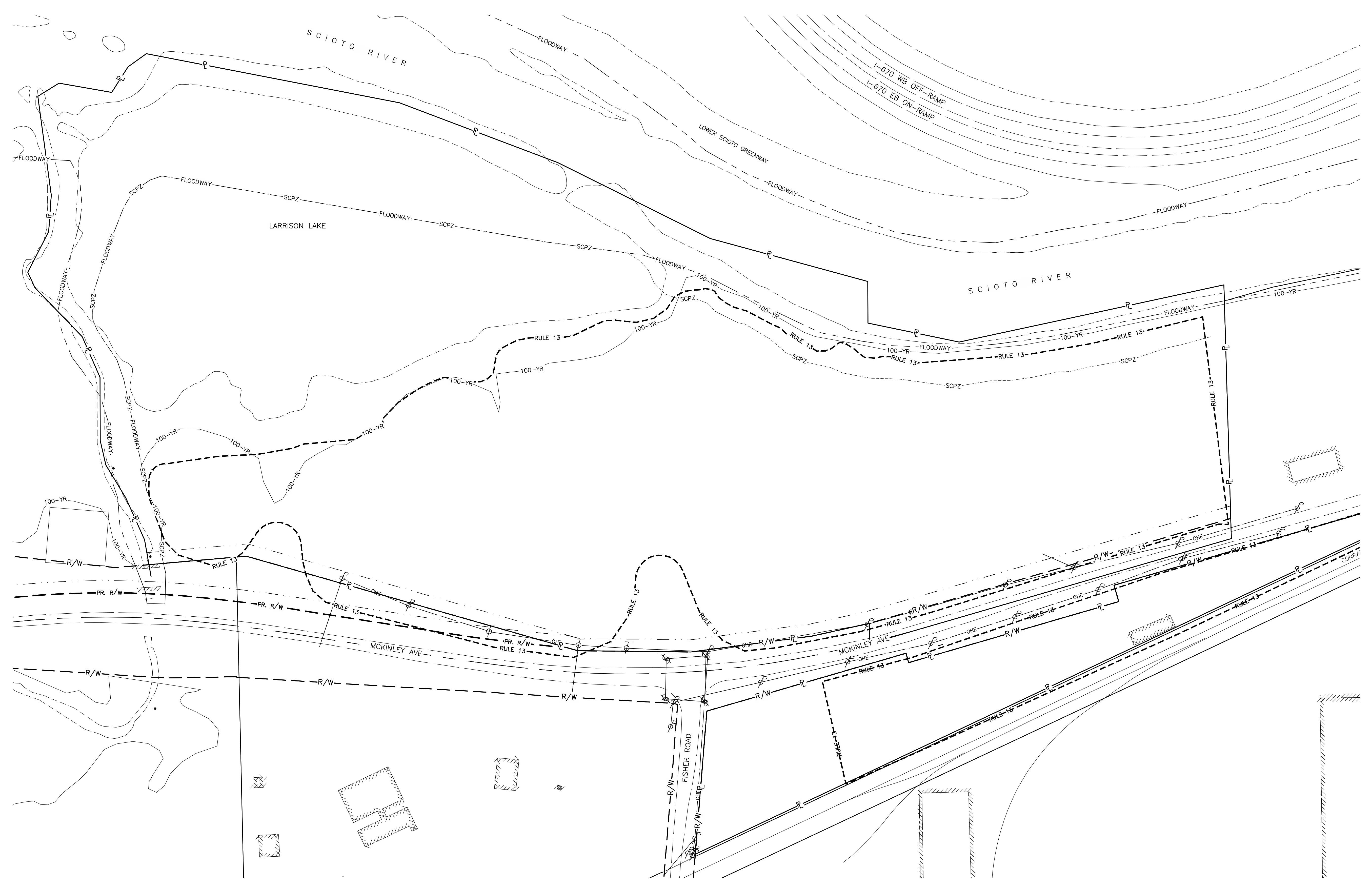
Location Map
Not To Scale



APPENDIX E

WESTBEND DEVELOPMENT ALTERNATIVES

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REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND
ASSOCIATES
 INC
 Consulting Civil Engineers and Surveyors

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

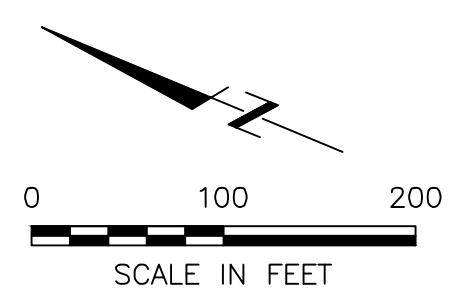
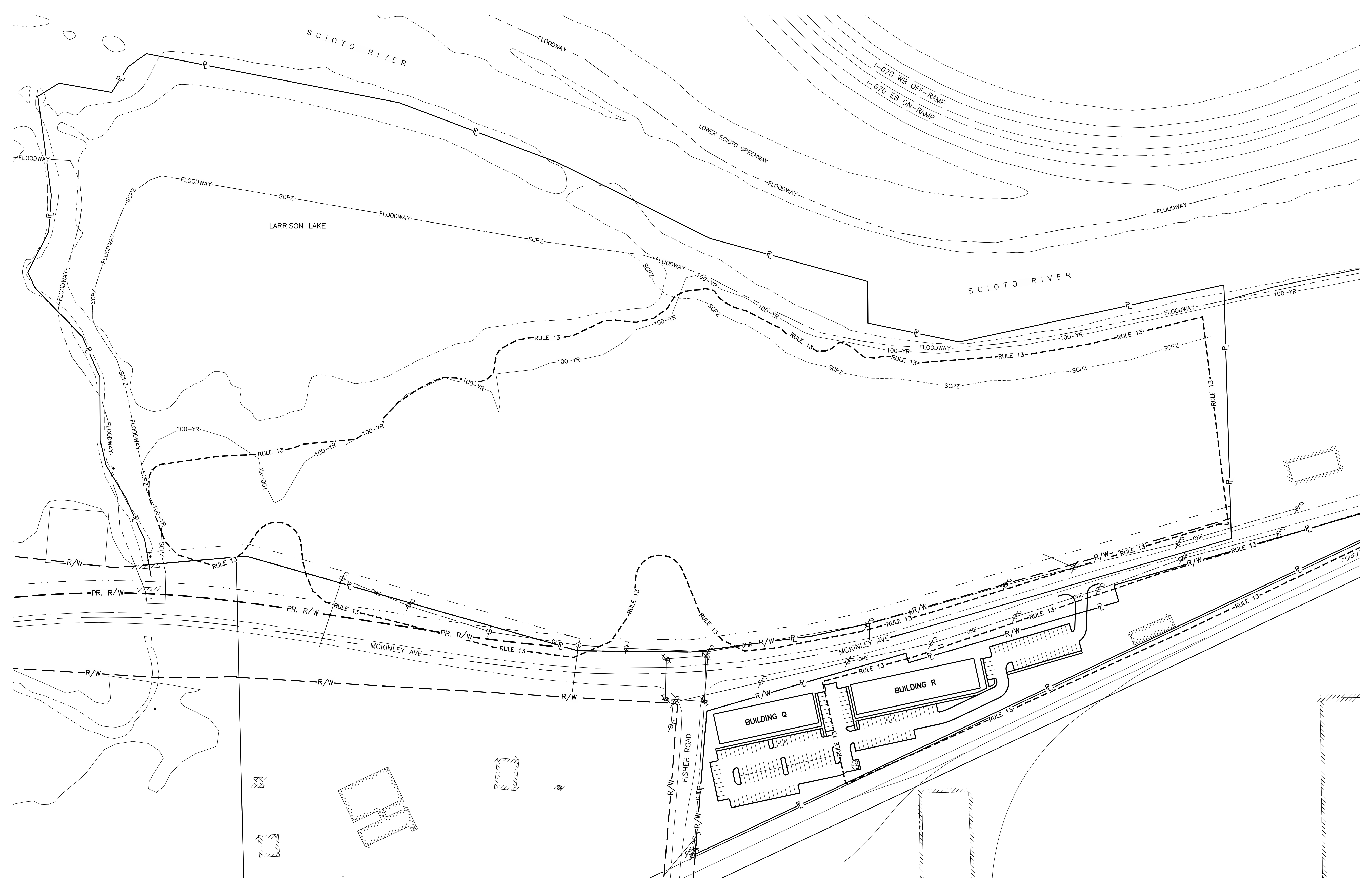
CITY OF COLUMBUS, OHIO
WESTBEND DEVELOPMENT
 THRIVE COMPANIES

JOB NO.:	1005.036
DESIGNED BY:	JLC
DRAWN BY:	JLC
CHECKED BY:	CJB
APPROVED BY:	CJB
DATE:	12/14/2022

NO IMPACT ALTERNATIVE

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

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REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND
ASSOCIATES
 INC
 Consulting Civil Engineers and Surveyors

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

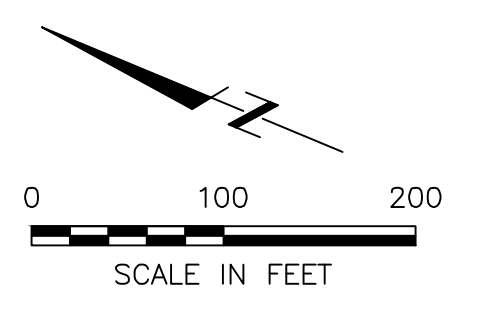
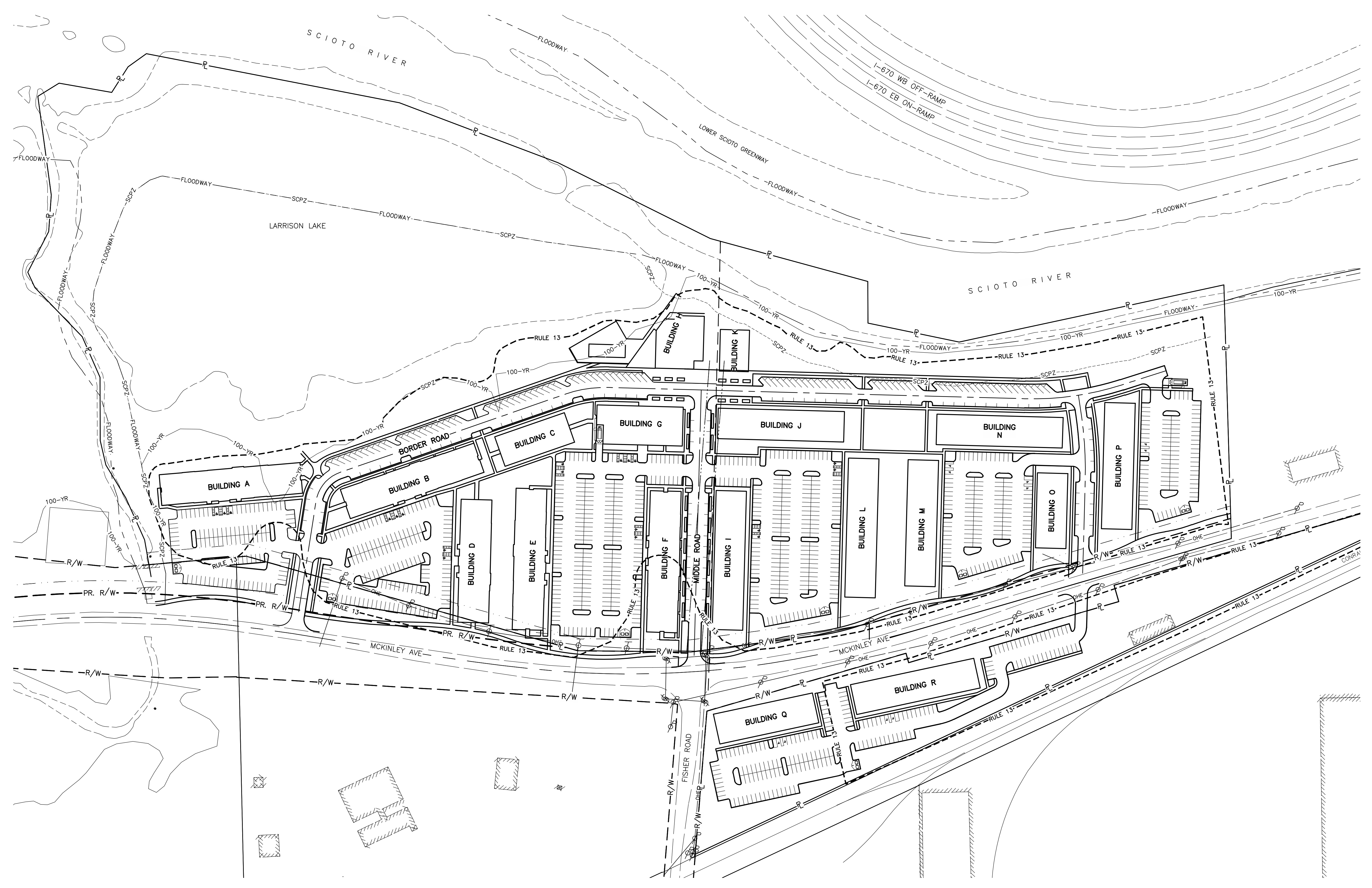
CITY OF COLUMBUS, OHIO
WESTBEND DEVELOPMENT
 THRIVE COMPANIES

JOB NO.:	1005.036
DESIGNED BY:	JLC
DRAWN BY:	JLC
CHECKED BY:	CJB
APPROVED BY:	CJB
DATE:	12/14/2022

MINIMAL IMPACT ALTERNATIVE

SHEET NO.	OF
1	1

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REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND ASSOCIATES
 INC
 Consulting Civil Engineers and Surveyors

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
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CHECKED BY:	CJB
APPROVED BY:	CJB
DATE:	12/14/2022

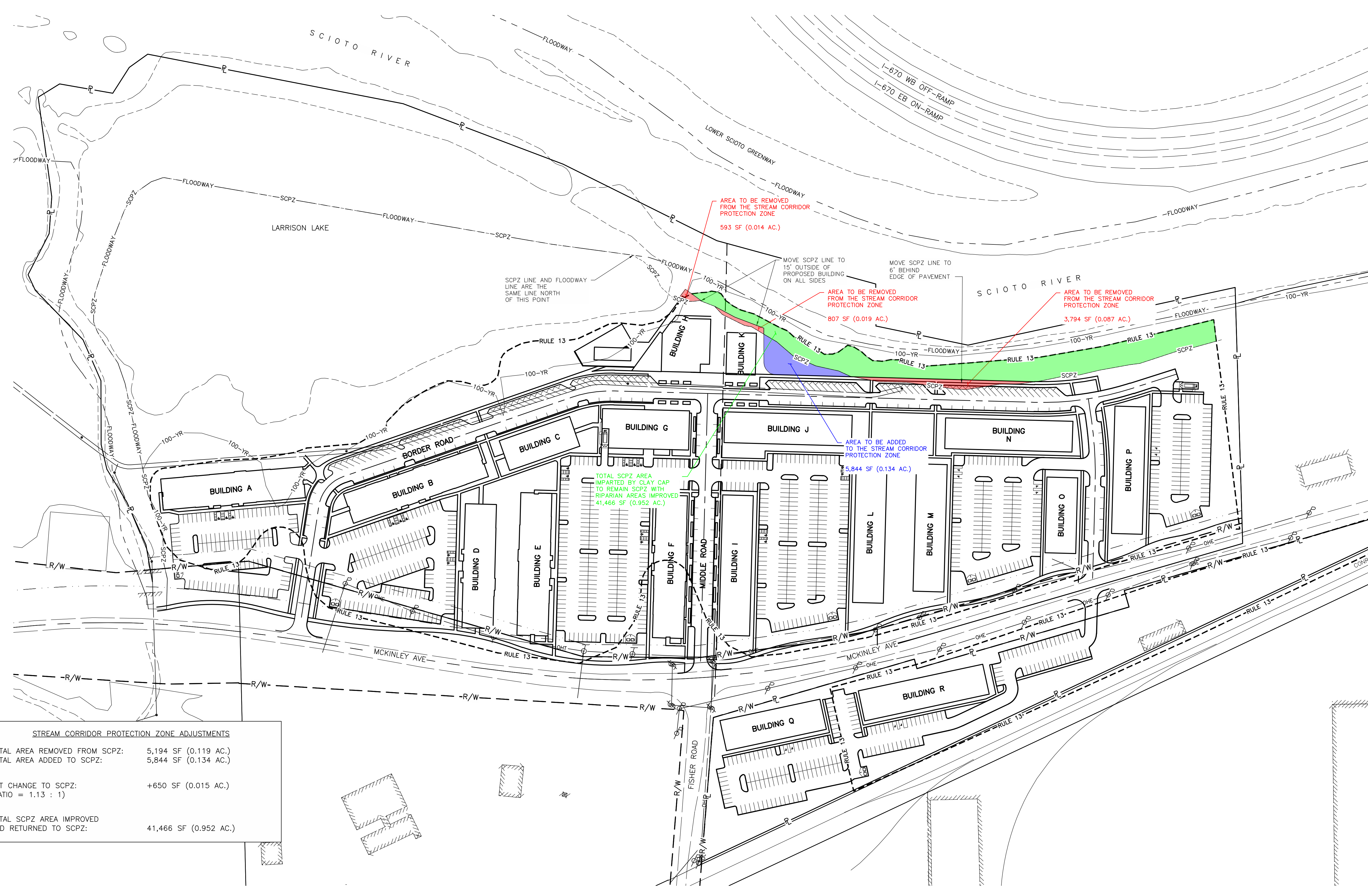
PREFERRED ALTERNATIVE

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

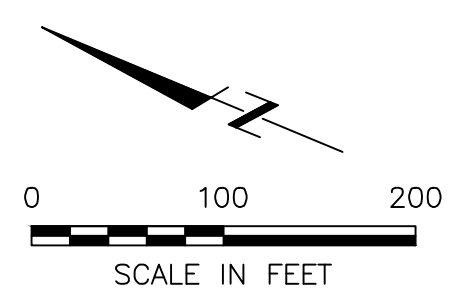
APPENDIX F

PREFERRED ALTERNATIVE SCPZ ENCROACHMENT EXHIBIT

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STREAM CORRIDOR PROTECTION ZONE ADJUSTMENTS	
TOTAL AREA REMOVED FROM SCPZ:	5,194 SF (0.119 AC.)
TOTAL AREA ADDED TO SCPZ:	5,844 SF (0.134 AC.)
NET CHANGE TO SCPZ: (RATIO = 1.13 : 1)	+650 SF (0.015 AC.)
TOTAL SCPZ AREA IMPROVED AND RETURNED TO SCPZ:	41,466 SF (0.952 AC.)



REVISIONS	DATE	BY	CHK.

E. P. FERRIS
 AND ASSOCIATES
 INC
 Consulting Civil Engineers and Surveyors

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:	1/13/2023

**PREFERRED ALTERNATIVE
 SCPZ ENCROACHMENT EXHIBIT**

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

APPENDIX G

WESTBEND DEVELOPMENT PHASE 1 MASS EXCAVATION PLAN

OWNER/DEVELOPER INFORMATION:

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

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

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES					
CONTROL/OUTLET STRUCTURE NO. (PER PLAN)	PLAN VIEW & DETAIL PAGE	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITIES	FACILITY TYPE	GREEN INFRASTRUCTURE (SQUARE FEET)
BASIN A / MH #2	6	WATER QUALITY	2.26 ACRES	TEMPORARY SEDIMENT BASIN	N/A
BASIN B / MH #4	6	WATER QUALITY	6.94 ACRES	TEMPORARY SEDIMENT BASIN	N/A
BASIN C / MH #6	6	WATER QUALITY	2.44 ACRES	TEMPORARY SEDIMENT BASIN	N/A

NOTE: SEE SHEET 3 FOR POST CONSTRUCTION SCP INSPECTION AND MAINTENANCE SCHEDULE

100-YR DETENTION TABLE					
ID	100 YEAR PONDING STORAGE REQUIRED (CF)	100 YEAR PONDING STORAGE PROVIDED (CF)	100 YEAR PONDING ELEVATION (FT)	MAX PONDING / SPILLOVER ELEVATION (FEET)	MAXIMUM PONDING VOLUMES (CF)
BASIN A	N/A	8,229*	740.50	740.50	8,229*
BASIN B	N/A	19,428*	739.50	739.50	19,428*
BASIN C	N/A	8,779*	740.50	740.50	8,779*

* 100-YEAR PONDING NOT REQUIRED AS THESE BASINS ARE ALL TEMPORARY SEDIMENT BASINS TO BE UTILIZED DURING EARTH MOVING ACTIVITIES.

SCP STRUCTURE NOTICE
 THE TEMPORARY SEDIMENT SETTLING PONDS BASIN A, B, & C ARE STORMWATER QUALITY SCPS AND ARE AN INTEGRAL PART OF THE PRIVATE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THESE STORMWATER QUALITY DEVICES SHALL BE PER SECTION 4.1.2 OF THE CITY OF COLUMBUS STORMWATER DRAINAGE MANUAL. (SEE SHEET 3 FOR POST CONSTRUCTION SCP INSPECTION AND MAINTENANCE SCHEDULE).
 THE PROJECT IS COMPLIANT WITH OHIO EPA GENERAL CONSTRUCTION STORM WATER PERMIT NO. OHC00005, ISSUED FEBRUARY 17TH, 2022.

FLOODPLAIN NOTE:
 COMPENSATORY FLOODPLAIN CUT AND FILL WILL TAKE PLACE ON THIS SITE. SEE SHEET 8 FOR INFORMATION ON COMPENSATORY FLOODPLAIN CUT AND FILL.
 CUT: 1,128.93 C.Y.
 FILL: 1,078.58 C.Y.
 NET: 50.35 C.Y. CUT

STANDARD CONSTRUCTION DRAWINGS

SEWERAGE AND DRAINAGE	DESIGN & CONSTRUCTION
AA-S102	2230 (04/30/18)
AA-S119	
AA-S149	
AA-S150	
AA-S168	
AA-S169	

THE STANDARD CONSTRUCTION DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE PLANS.

NOTE: SITE IS LOCATED IN FEMA FIRM MAP PANEL 39049C0302K (EFFECTIVE 06/17/2008). THE SITE INCLUDES BOTH FLOOD ZONES AE AND X. THE BASE FLOOD ELEVATION THROUGHOUT THE SITE IS GENERALLY 732.90 FEET.

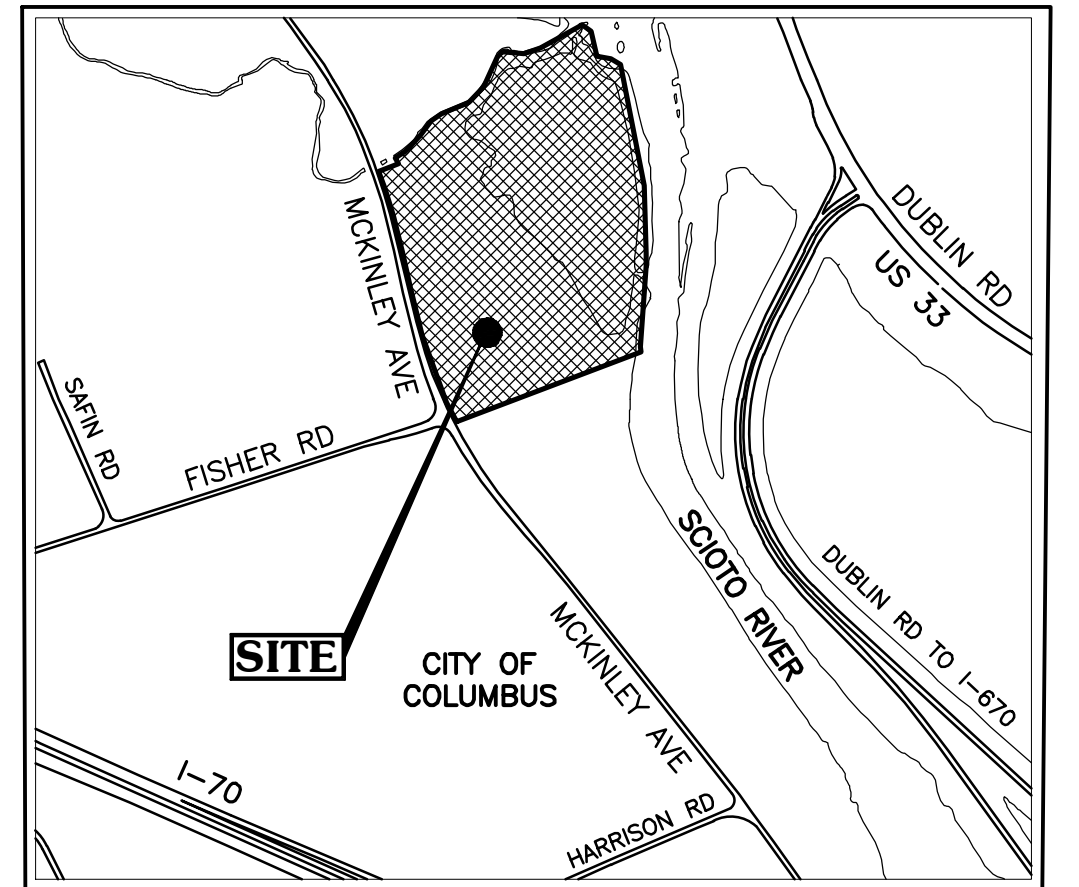
INDEX MAP

SCALE: 1" = 100'

0 100 200

SCALE IN FEET

PRELIMINARY SITE COMPLIANCE PLAN: XXXXX-XXXXX
 WATER SERVICE PLAN: WSP-XXXXX
 FINAL SITE COMPLIANCE PLAN: XXXXX-XXXXX
 R/W IMPROVEMENTS PLAN: XXXX-E
 CC STORM PLAN: CC-XXXXX
 CC SANITARY PLAN: CC-XXXXX



LOCATION MAP NOT TO SCALE

PROJECT DESCRIPTION
 MASS EXCAVATION PLAN REQUIRED FOR REMEDIATION OF EXISTING RULE 13 LANDFILL PER OHIO ENVIRONMENTAL PROTECTION AGENCY VOLUNTARY ACTION PLAN (VAP)

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.

PARCEL INFORMATION

NO.	OWNER	ADDRESS	PARCEL ID.	ACREAGE (DEED)	ZONING	HEIGHT DISTRICT
1	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-146234	23.72	M, MANUFACTURING (Z67-005)	H-35
2	PAINE-MCKINLEY AVENUE LLC	2610 MCKINLEY AVE	010-146253	2.10	M, MANUFACTURING (Z67-005)	H-35
3	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-200913	9.25	M, MANUFACTURING (Z67-005)	H-35
4	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-146278	0.78	M, MANUFACTURING (Z67-005)	H-35
5	HIDDEN LAKE ASSOCIATION	MCKINLEY AVE	010-153702	17.07	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	15.14	M, MANUFACTURING (Z67-005)	H-35
8	PAINE-MCKINLEY AVENUE LLC	MCKINLEY AVE	010-200912	5.18	M, MANUFACTURING (Z67-005)	H-35

SHEET INDEX

TITLE SHEET.....	1
GENERAL NOTES & ESTIMATE OF QUANTITIES	2
SWPPP NOTES	3
SWPPP DETAILS	4
SWPPP AND GRADING PLAN	5
BASIN DETAILS	6
STORM OUTLET PROFILES	7
100 YEAR CUT AND FILL DETAILS	8

OHIO Utilities Protection SERVICE
 Call Before You Dig
 800-362-2764 or 8-1-1
 www.oups.org

EASEMENT REFERENCE		
CITY NO.	COUNTY RECORDER	GRANTOR
	VOL. PAGE	

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

 BY _____ REGISTERED ENGINEER _____ DATE _____

APPROVALS:

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE 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 IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE

DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
AGREEMENT	COMPLETED		
RPD	CKD	CLD	CON. DR.

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

SCALE: 1" = 100'	SHEET: 1/8
CONTRACT DRAWING NO. CC-19850	RECORD PLAN NO.

GENERAL NOTES

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 THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

NOTIFICATIONS

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 INSPECTION.

UTILITY OWNERSHIP

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 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 PROTECTION SERVICE.

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

COMMENCEMENT OF WORK

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

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.

MODIFICATIONS

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

DEFLECTION TESTING

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 VERSION (2018).

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 CONTROL

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

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.
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.

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

PONDING / DETENTION AREAS

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-BUILTS

AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING ASBUILT 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.

END TREATMENT

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, POUNDING BOTTOMS, MUDDING LIFT HOLES, ETC.

PERMITS

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.

WATER

FIRE HYDRANT PERMIT

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.

PERMITS

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.

AGGREGATE CERTIFICATION NOTE
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

SUB-GRADE NOTE:

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.

UTILITY NOTE:

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

SANITARY SEWER CAPOFF NOTE

SEWER CAPOFF PERMIT IS REQUIRED PRIOR TO ISSUANCE OF DEMOLITION PERMIT. OBTAIN A CAPOFF PERMIT FROM SEWER PERMIT OFFICE, 111 N. FRONT STREET, 1ST FLOOR, (614) 645-7490.

SANITARY NOTE

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.

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

SIDEWALK

PROPOSED PUBLIC SIDEWALK TO BE INSTALLED PER CITY OF COLUMBUS STD. DRAWING 3200.

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 PERFORMED 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 FOLLOWING 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 FROM DOP.

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 DEBRIS, 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.

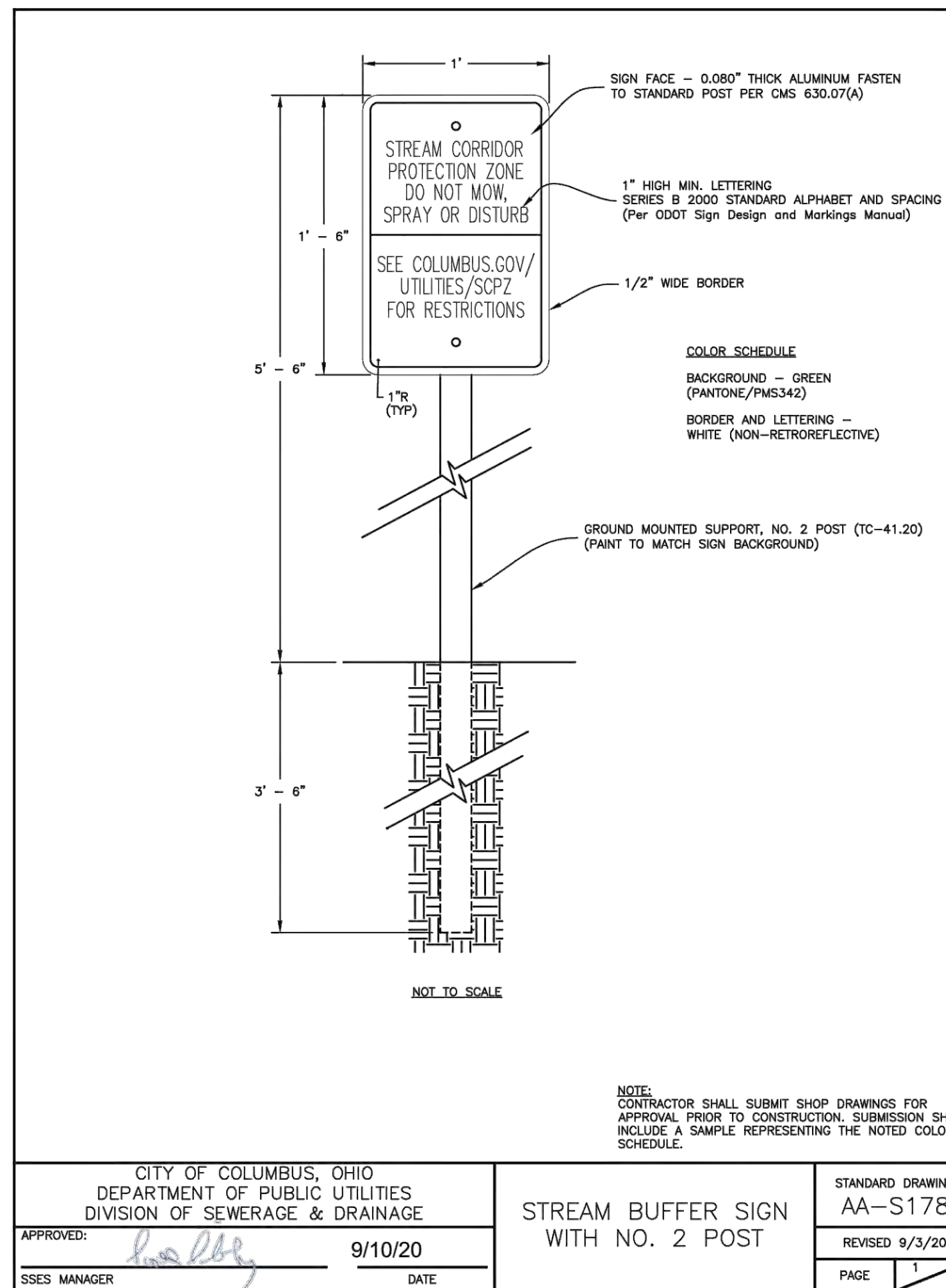
THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, 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				
ITEM	QUANTITY	UNIT	DESCRIPTION	
IMPROVEMENTS OUTSIDE R/W				
203	40,000	C.Y.	EXCAVATION	
203	40,000	C.Y.	EMBANKMENT	
207	1	EA	CONCRETE WASHOUT AREA	
207	64,227	S.Y.	TEMPORARY SEEDING AND MULCHING	
207	3,471	L.F.	SILT FENCE	
207	1	EA	STABILIZED CONSTRUCTION ENTRANCE	
207	3	EA	SEDIMENT BASIN	
604	12	C.Y.	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC	
604	3	EA	PRECAST PIPE ENDWALL (AA-S169)	
616	15	MGAL	WATER	
616	15	TONS	CALCIUM CHLORIDE	
671	4,594	S.Y.	EROSION CONTROL MAT, TYPE C	
901	197	LF	TEMPORARY 12 INCH STORM PIPE, WITH TYPE 1 BEDDING	
SPEC	3	EA	TEMPORARY OUTLET RISER STRUCTURE W/ FAIRCLOTH SKIMMER	
SPEC	3	EA	STREAM CORRIDOR PROTECTION ZONE SIGN, COMPLETE	

NOTE:
THE QUANTITIES HAVE BEEN ESTABLISHED AS A MEANS FOR THE ENGINEER TO ESTIMATE A PRELIMINARY COST AND FOR THE CITY OF COLUMBUS TO ESTABLISH INSPECTION FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE REQUIRED BID QUANTITIES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS.

THE SPECIFIC PRODUCTS SPECIFIED IN THESE DOCUMENTS CAN BE SUBSTITUTED WITH AN EQUIVALENT ALTERNATIVE PRODUCT IF APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF COLUMBUS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ALL FEES ASSOCIATED WITH REVISIONS 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.

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EASEMENT REFERENCE			REVISIONS			PLAN PREPARED BY:		PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY	
CITY NO.	COUNTY RECORDER		NO.	DESCRIPTION	APPROVAL/DATE	DATE	DATE	PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE				SCALE: NONE	SHEET: 2/8
	VOL.	PAGE						GRANTOR	DIVISION USE ONLY		OWNER		
								CONTRACTOR					
								INSPECTOR					
								AGREEMENT		COMPLETED			
								RPD		CKD		CON. DR.	
								CONTRACT DRAWING NO.		RECORD PLAN NO.			
								CC-19850					

EROSION AND SEDIMENT CONTROL

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 NO(S), 2-X 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.

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 POLLUTION 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 THE 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 MULCH.

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 14 DAYS.

SEDIMENT CONTROLS

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.

CONSTRUCTION ACCESS ROUTES

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 MINIMIZED.

SLOUGHING AND DUMPING

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.

ESTABLISHMENT OF PERMANENT VEGETATION

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:

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

1. PERMANENT SEEDING AND MULCHING SHALL BE TREATED IN ACCORDANCE WITH ITEM 659.

TIMING OF SEDIMENT-TRAPPING PRACTICES

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.

EROSION AND SEDIMENTATION CONTROL NARRATIVE

OEPA NOTICE OF INTENT PERMIT NUMBER: 4CC08870*AG

PLAN DESIGNER: E.P. FERRIS & ASSOCIATES
2130 QUARRY TRAILS DRIVE, 2ND FLOOR
COLUMBUS, OH 43215
PHONE: 614-299-2999 FAX: 614-299-2992 EMAIL: cbuckley@epferris.com

OWNER/DEVELOPER: WESTBEND QOZB, LLC
842 NORTH FOURTH STREET, SUITE #200
COLUMBUS, OH 43215
CONTACT: MICHAEL AMICON
PH: 614-286-2143

PROJECT DESCRIPTION: THE EXISTING SITE CONSISTS OF A FORMER JUNK YARD BORDERED ON THE WEST BY MCKINLEY AVENUE, THE EAST BY THE 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.

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

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

CRITICAL AREAS: SCIOTO RIVER

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 THROUGHOUT THE SITE.

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.
2. INSTALL PERIMETER EROSION & SEDIMENT CONTROLS.
3. CONSTRUCT AND INSTALL TEMPORARY SEDIMENT BASINS A, B, AND C. INSTALL OUTLET CONTROL STRUCTURES, OUTLETS, EROSION CONTROL MATTING, AND SKIMMERS.
4. 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.

SITE CONTACT: WESTBEND QOZB, LLC
842 NORTH FOURTH STREET, SUITE #200
COLUMBUS, OH 43215
CONTACT: MICHAEL AMICON
PH: 614-286-2143
EMAIL: mamicon@thrivecos.com

TEMPORARY SEDIMENT BASIN INSPECTION & MAINTENANCE SCHEDULE

INSPECTION ITEM	MAINTENANCE PROCEDURES	FREQUENCY OF INSPECTION
TEMPORARY SEDIMENT BASIN	<ol style="list-style-type: none"> ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS. PROMPTLY REPAIR ERODED AREAS. REESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND. REMOVE SEDIMENT FROM BASIN WHEN IT FILLS THE DESIGN DEPTH OF THE SEDIMENT STORAGE ZONE. THIS ELEVATION SHALL BE MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN. CHECK SPILLWAY OUTLETS AND POINTS OF INLOW TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED. REPLACE DISPLACED RIPRAP IMMEDIATELY. AFTER THE ENTIRE CONSTRUCTION PROJECT IS COMPLETED, TEMPORARY SEDIMENT BASINS SHOULD BE DEWATERED AND REGRADED TO CONFORM TO THE CONTOURS OF THE AREA. ALL TEMPORARY STRUCTURES SHOULD BE REMOVED AND THE AREA SEEDED, MULCHED AND STABILIZED AS NECESSARY. 	WEEKLY AND AFTER EACH RUNOFF EVENT

NOTE: 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.

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

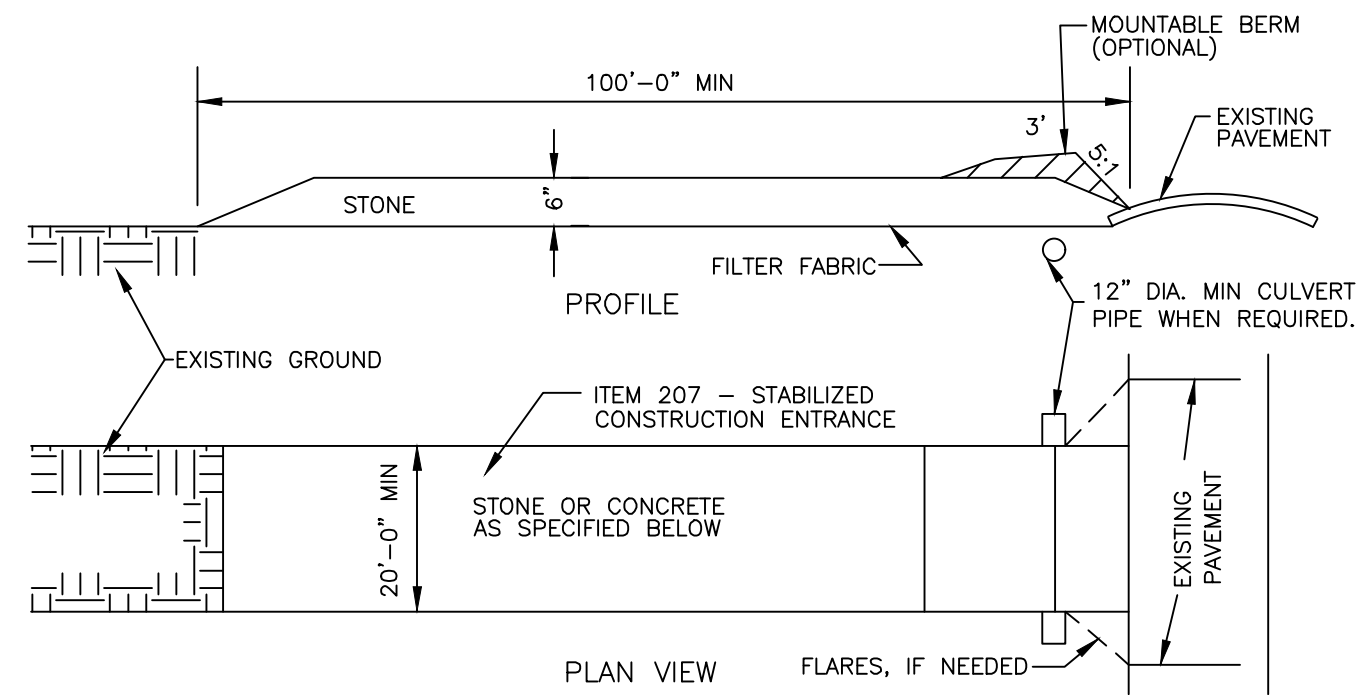
TEMPORARY STABILIZATION

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.

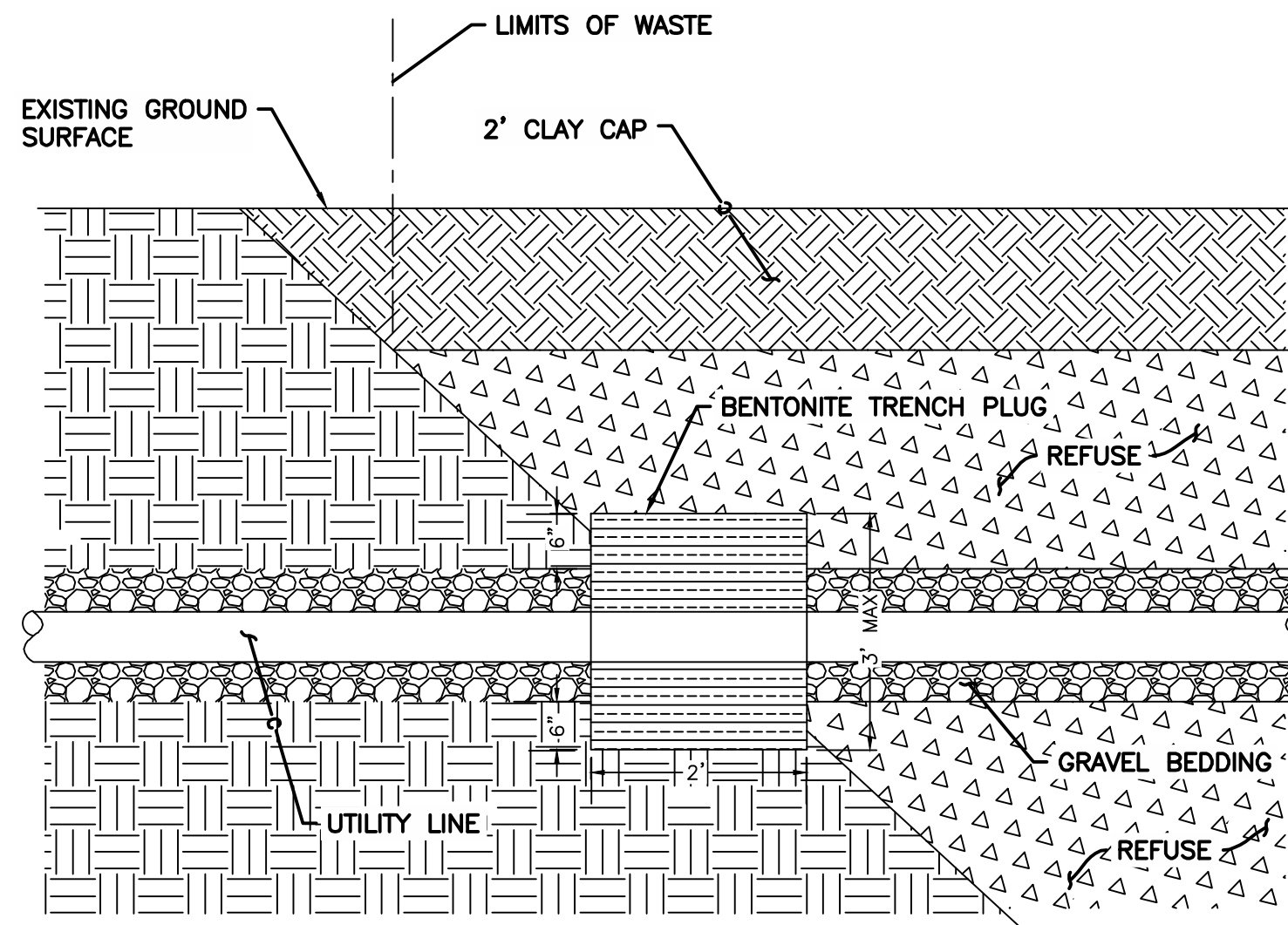
EASEMENT REFERENCE				REVISIONS			PLAN PREPARED BY:	PROJECT TITLE: PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	DIVISION USE ONLY			OWNER	SCALE: NONE	SHEET: 3/8
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STABILIZED CONSTRUCTION ENTRANCE

- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - A MINIMUM OF 100', BUT MAY BE LONGER AS DETERMINED BY THE CITY OF COLUMBUS.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- 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.
- 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.
- FILTER FABRIC - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- 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.
- 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 THE ENTRANCE.
- 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 IMMEDIATELY.
- 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.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- 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.

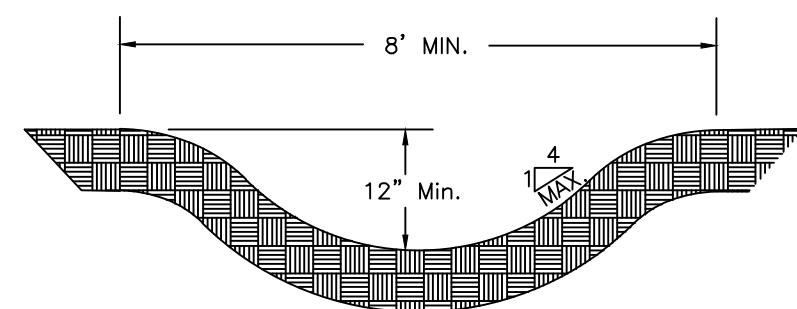


NOTES:

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

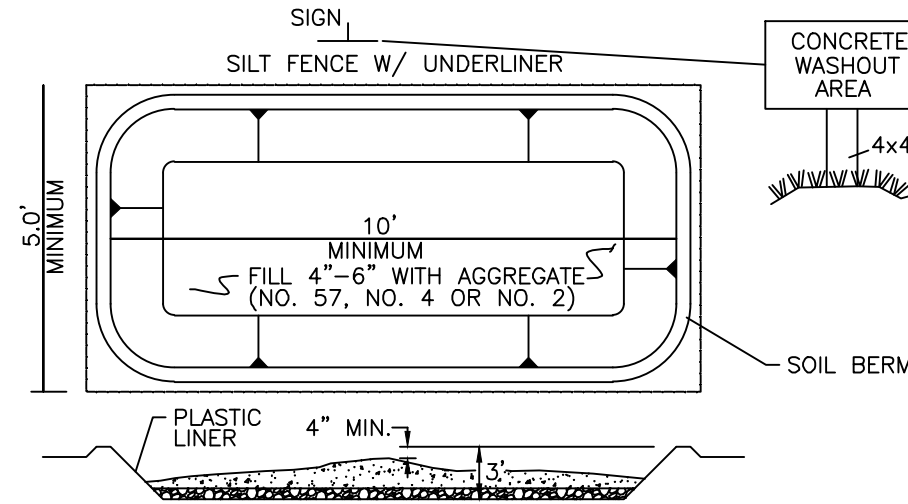
BENTONITE TRENCH PLUG

N.T.S.



CUT SWALE DETAIL

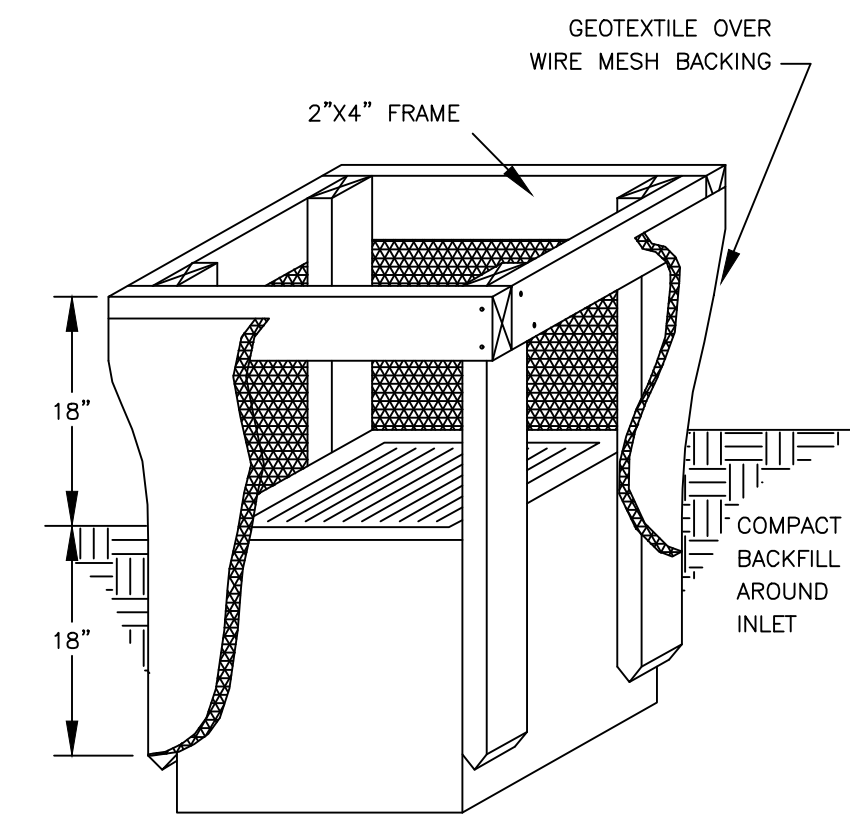
N.T.S.



CONCRETE WASHOUT AREA

N.T.S.

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



FILTER FABRIC INLET PROTECTION

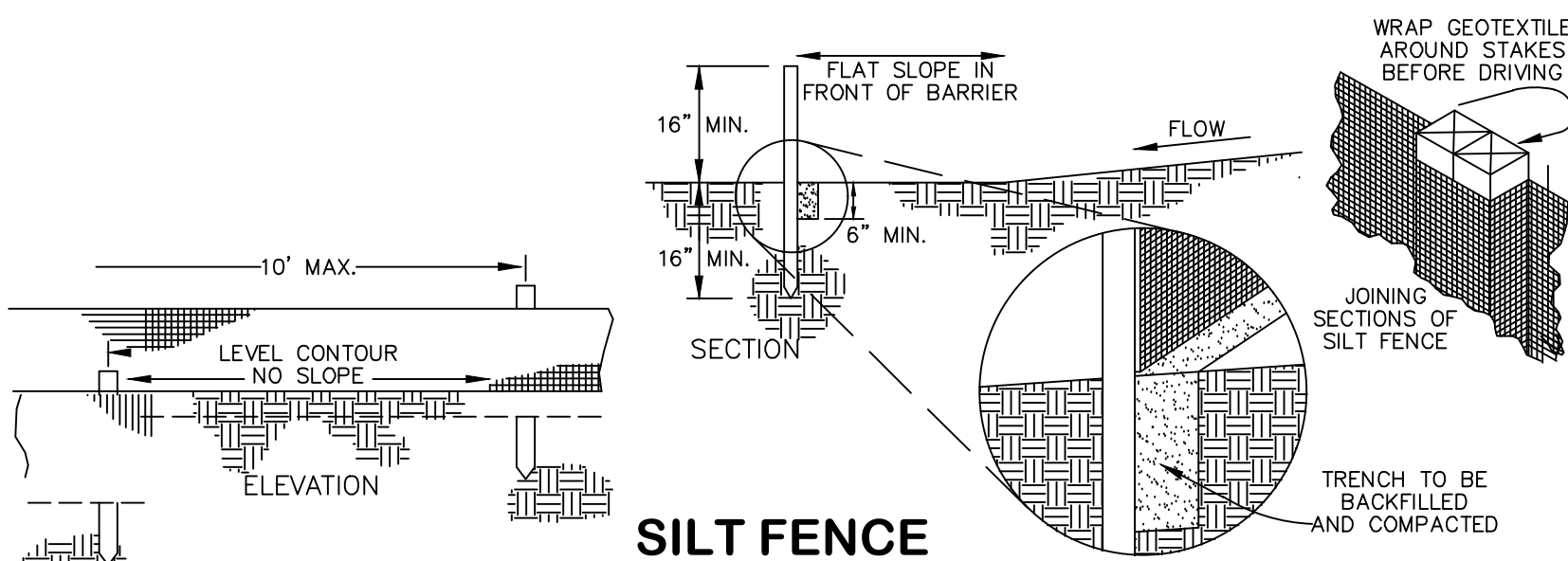
N.T.S.

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

TO BE USED ON STRUCTURE #S: 2, 4, & 6.

NOTE:

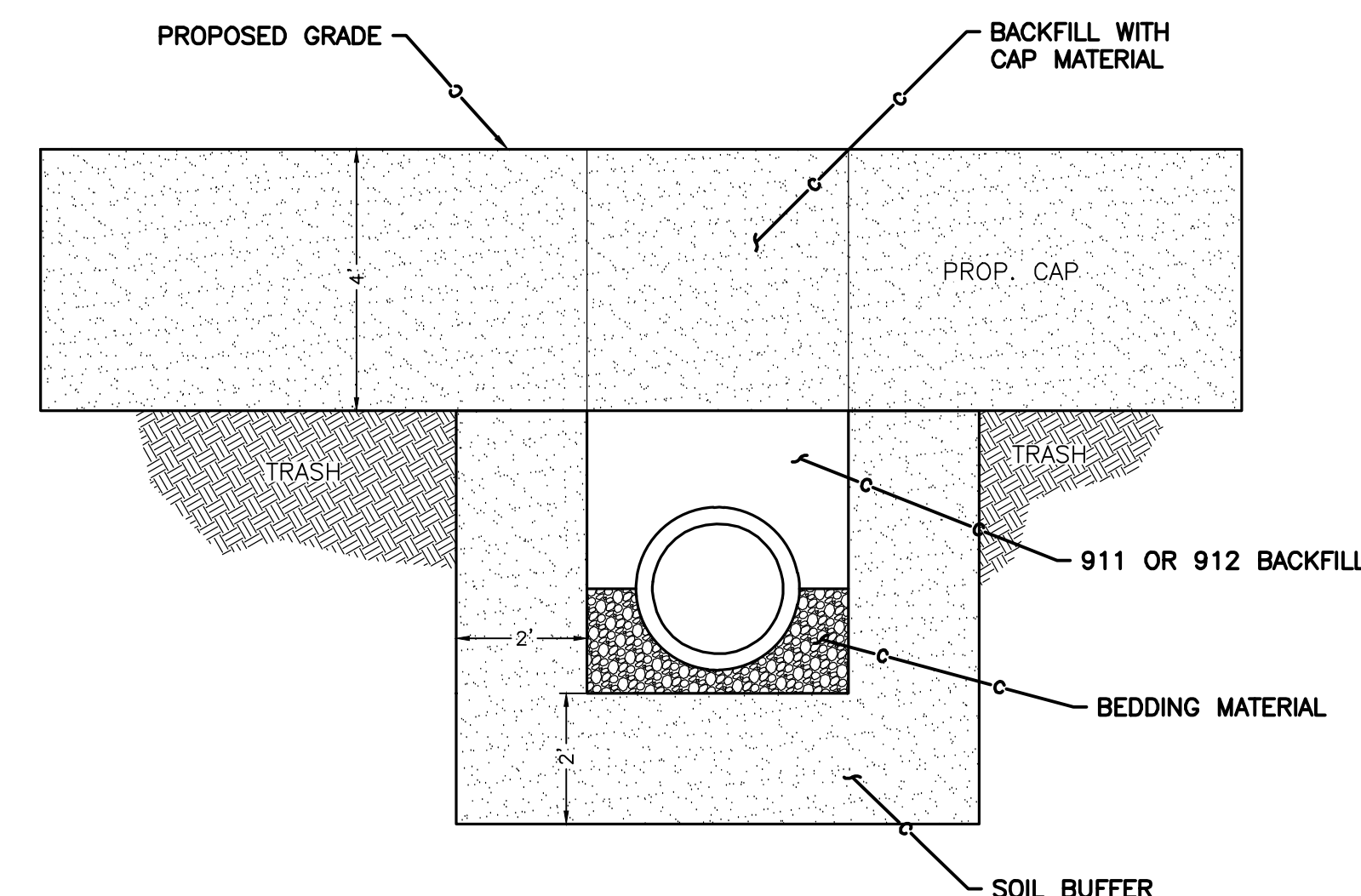
VERTICAL INLET PROTECTION TO BE USED WHERE POSSIBLE AND ALWAYS IN AREAS TO BE GRASSED.



SILT FENCE

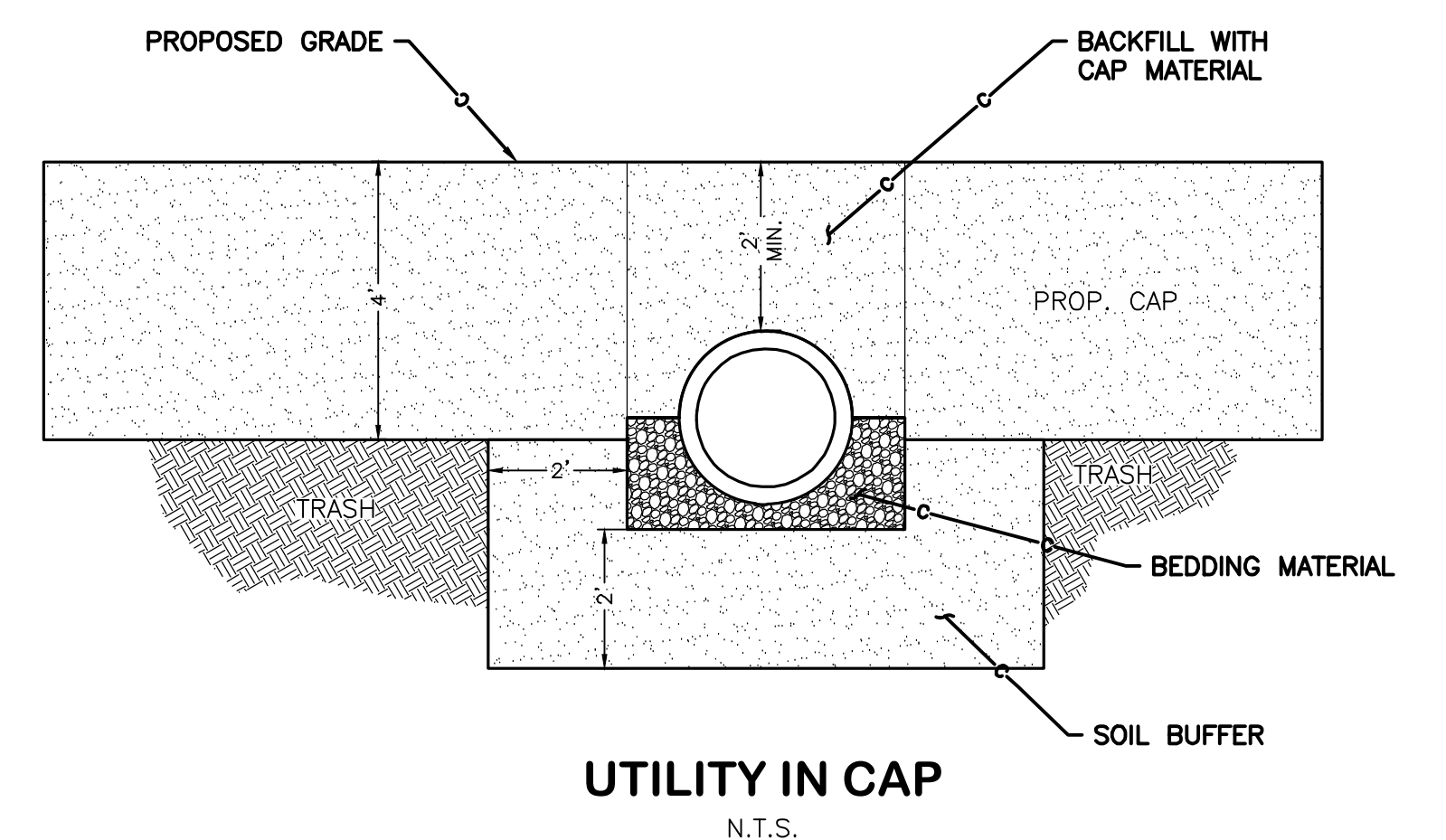
N.T.S.

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
 - 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.
 - 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.
 - SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - 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.
 - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - 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.
 - 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.
 - 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.
 - 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:
 - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 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.
- 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.
 - SILT FENCE FABRIC: SEE CHART BELOW.
- STRAW WATTLES OR COMPOST ROLLS HAVE A MINIMUM DIAMETER OF 12" (OEPA).
- | 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 Permeability | 1X10 ⁻² sec.-1 | ASTM D 4491 |
| UV Exposure Strength Retention | 70% | ASTM G 4355 |



UTILITY BELOW CAP

N.T.S.



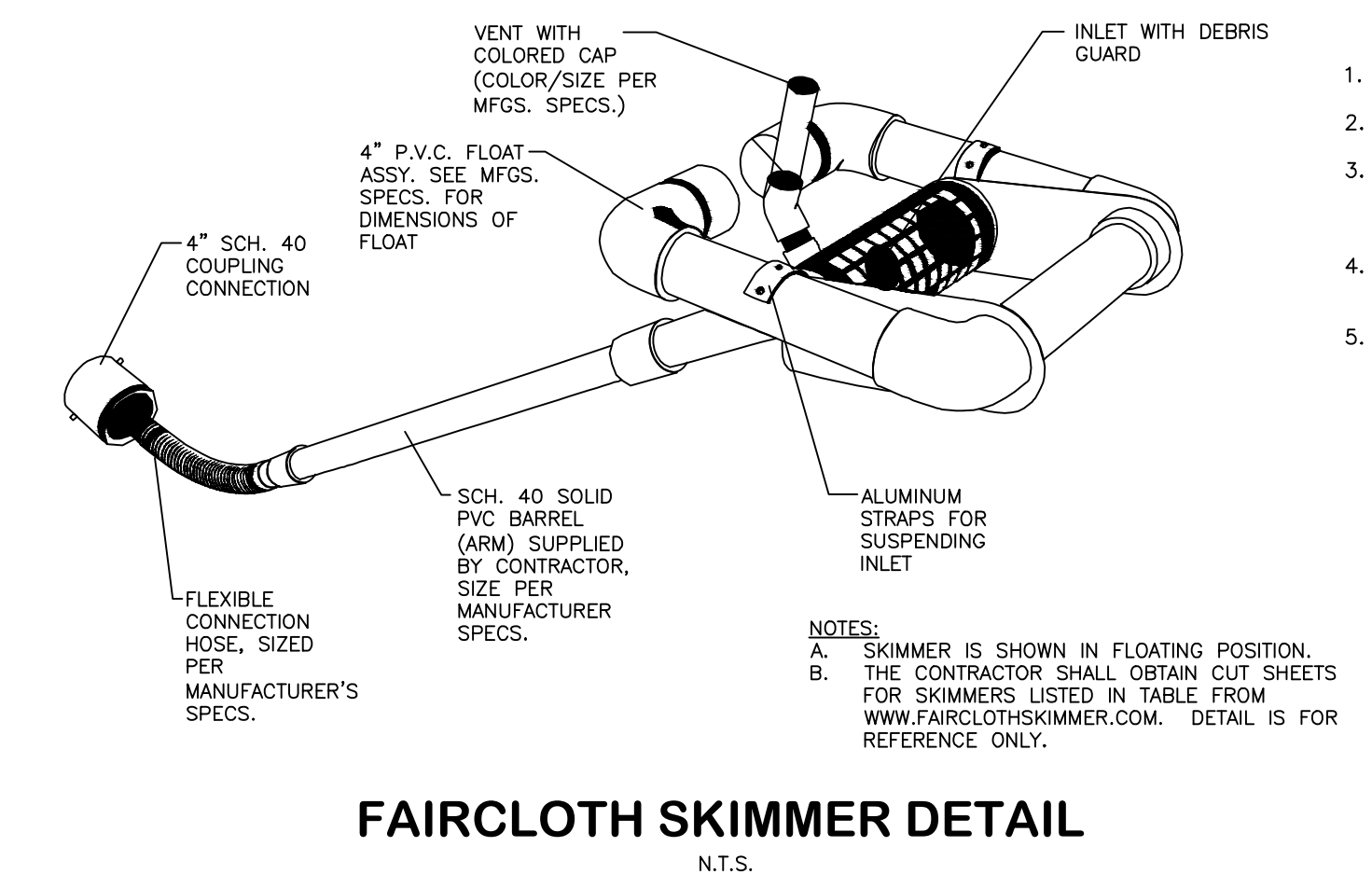
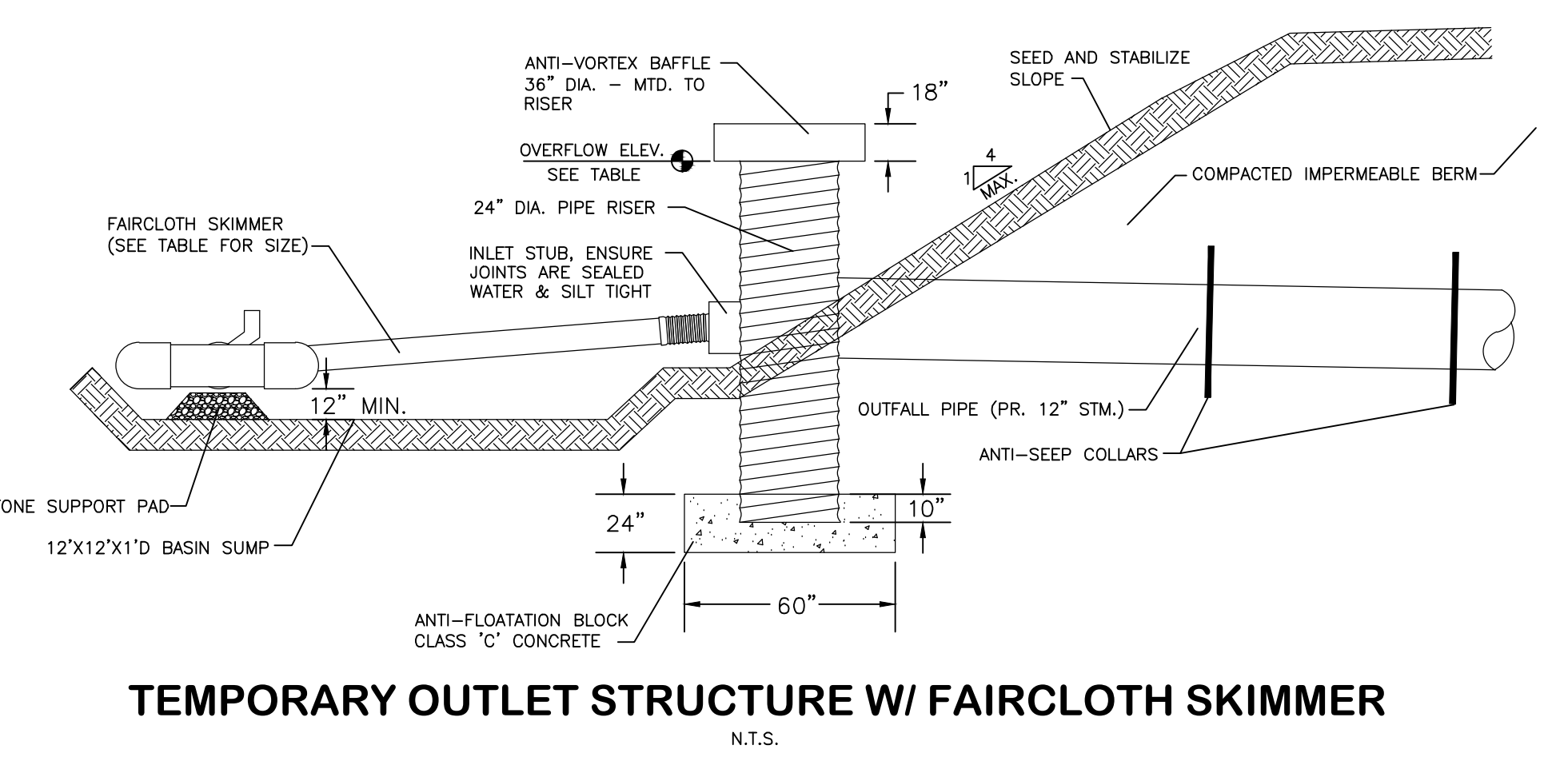
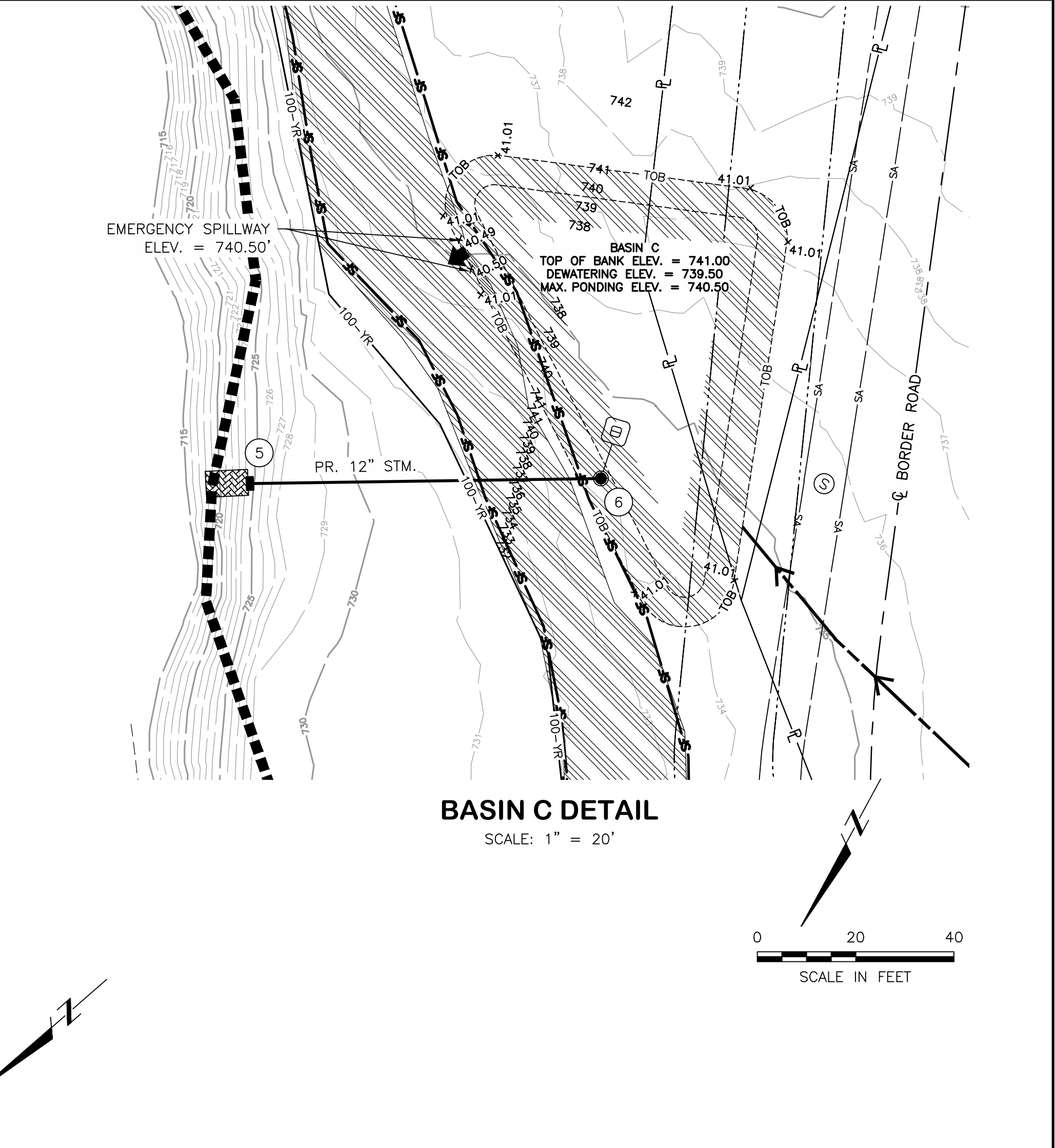
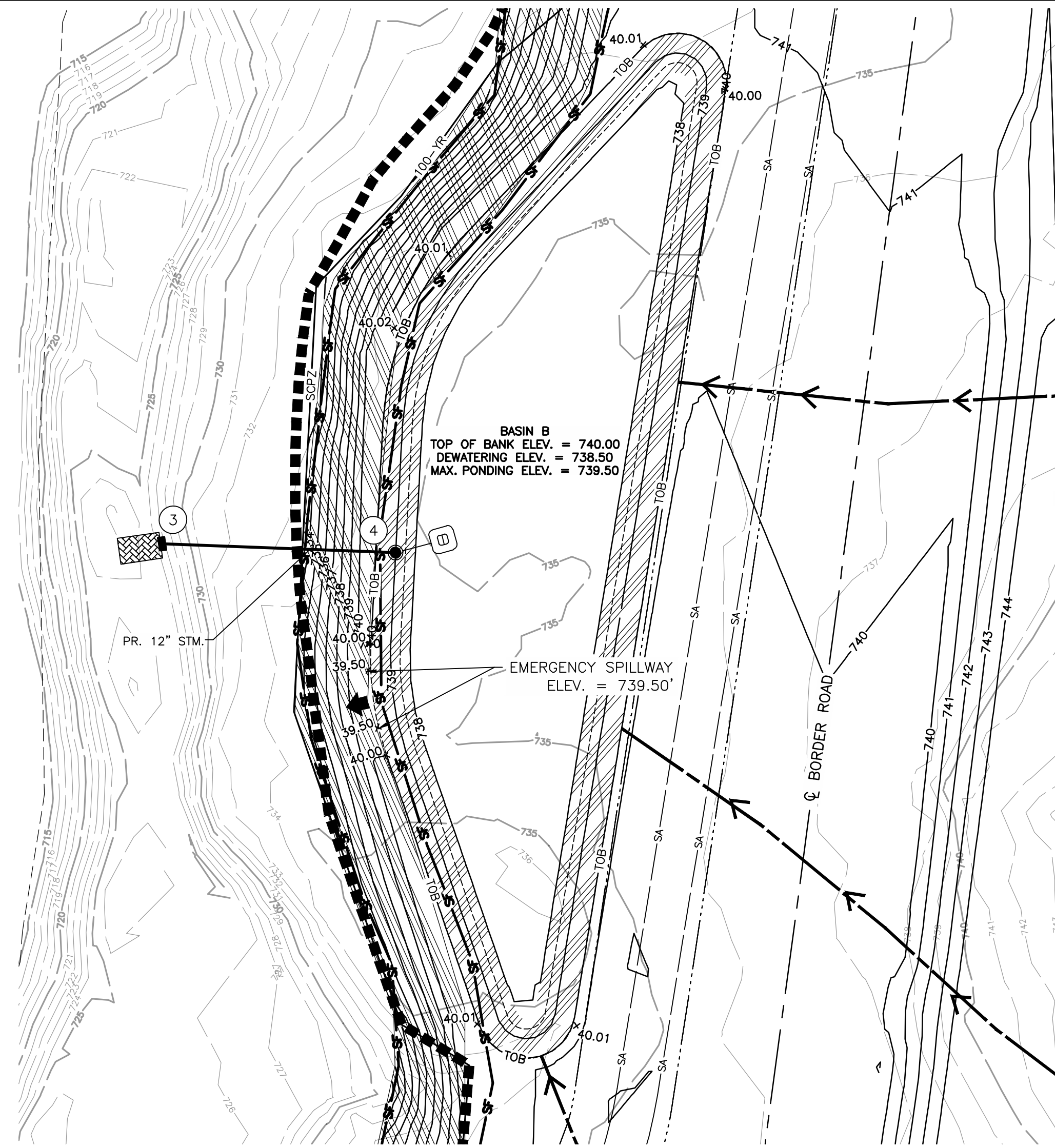
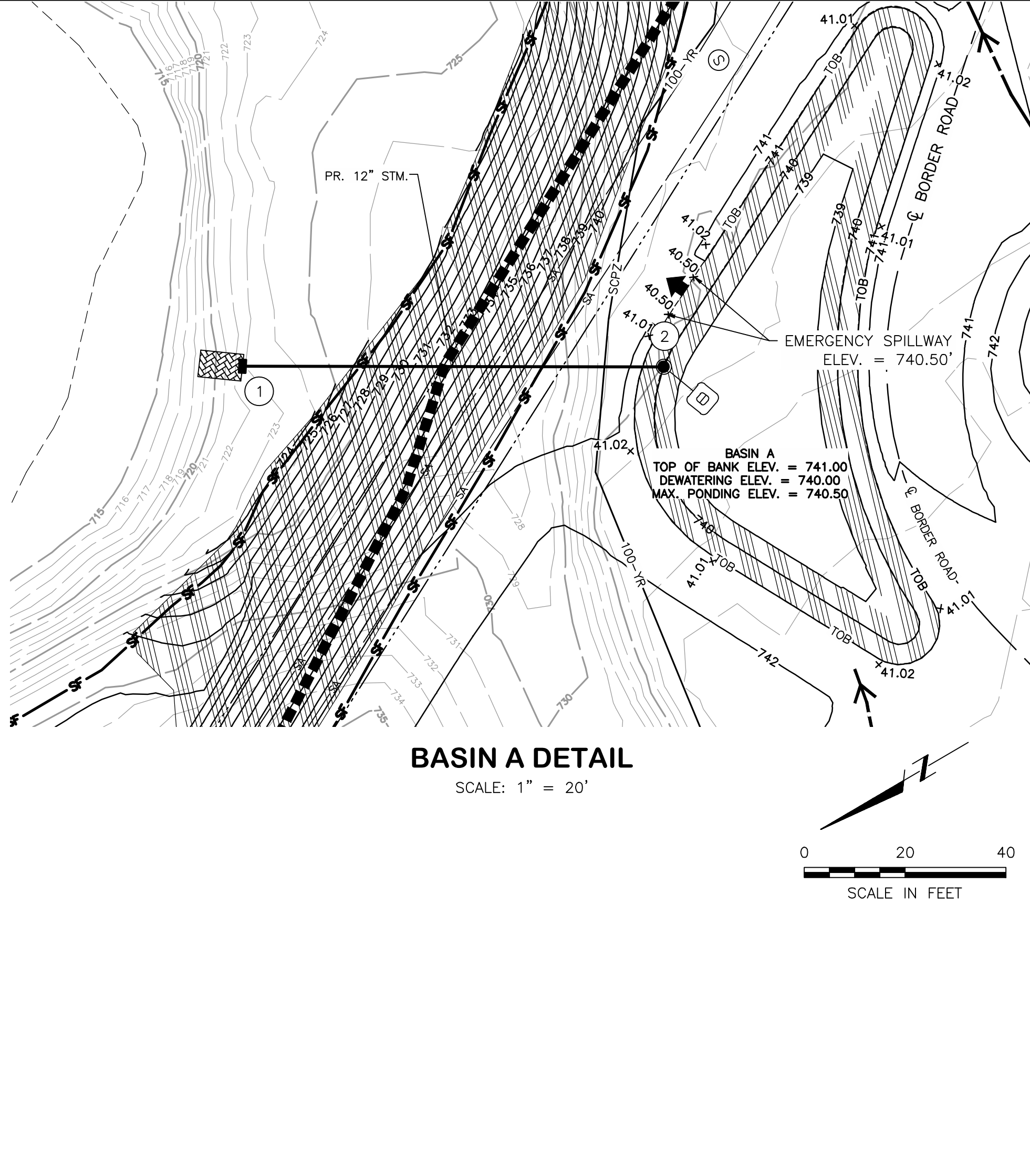
UTILITY IN CAP

N.T.S.

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			PLAN PREPARED BY:	PROJECT TITLE:	CITY OF COLUMBUS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	DEPARTMENT OF PUBLIC UTILITIES			DIVISION OF SEWERAGE AND DRAINAGE		
	VOL.	PAGE					SWPPP DETAILS	PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE		DIVISION USE ONLY	
								OWNER		SHEET: 4/8	
								CONTRACTOR		SCALE: NONE	
								INSPECTOR		SHEET: 4/8	
								AGREEMENT		RECORD PLAN NO.	
								RPD CKD CLD CON. DR.		CONTRACT DRAWING NO. CC-19850	
										RECORD PLAN NO.	

DRAWING: M:\1005036_MCKINLEY\DWG\PRODUCTION DRAWINGS\MASSEX\MASSEY_BASIN_DETAILS.DWG SAVED ON: 01/11/23 11:07 REVISED BY: JCUNNINGHAM



- NOTES:
1. RISER PIPE BASE: THE RISER PIPE SHALL BE SET AT A MINIMUM OF 8" IN THE CONCRETE BASE.
 2. TRASH RACKS: THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.
 3. SEDIMENT CLEANOUT: SEDIMENT SHALL BE REMOVED AND THE SEDIMENT BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS FILLED TO ONE-HALF THE SEDIMENT STORAGE ZONE. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE AND STABILIZED SIMILAR TO OTHER FILL MATERIAL PLACED ON THE SITE.
 4. FINAL REMOVAL: THE SEDIMENT CONTROL STRUCTURE SHALL BE REMOVED ONLY AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR A RELOCATED BASIN IS ESTABLISHED. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED.
 5. ANY FIELD CHANGES, SUBSTITUTIONS OR MODIFICATIONS TO THE FAIRCLOTH SKIMMER SHALL BE APPROVED BY THE ENGINEER OF RECORD. SYSTEM IS DESIGNED TO DEWATER THE BASIN IN A 48 HOUR TIME PERIOD, PER OHIO EPA REGULATIONS.

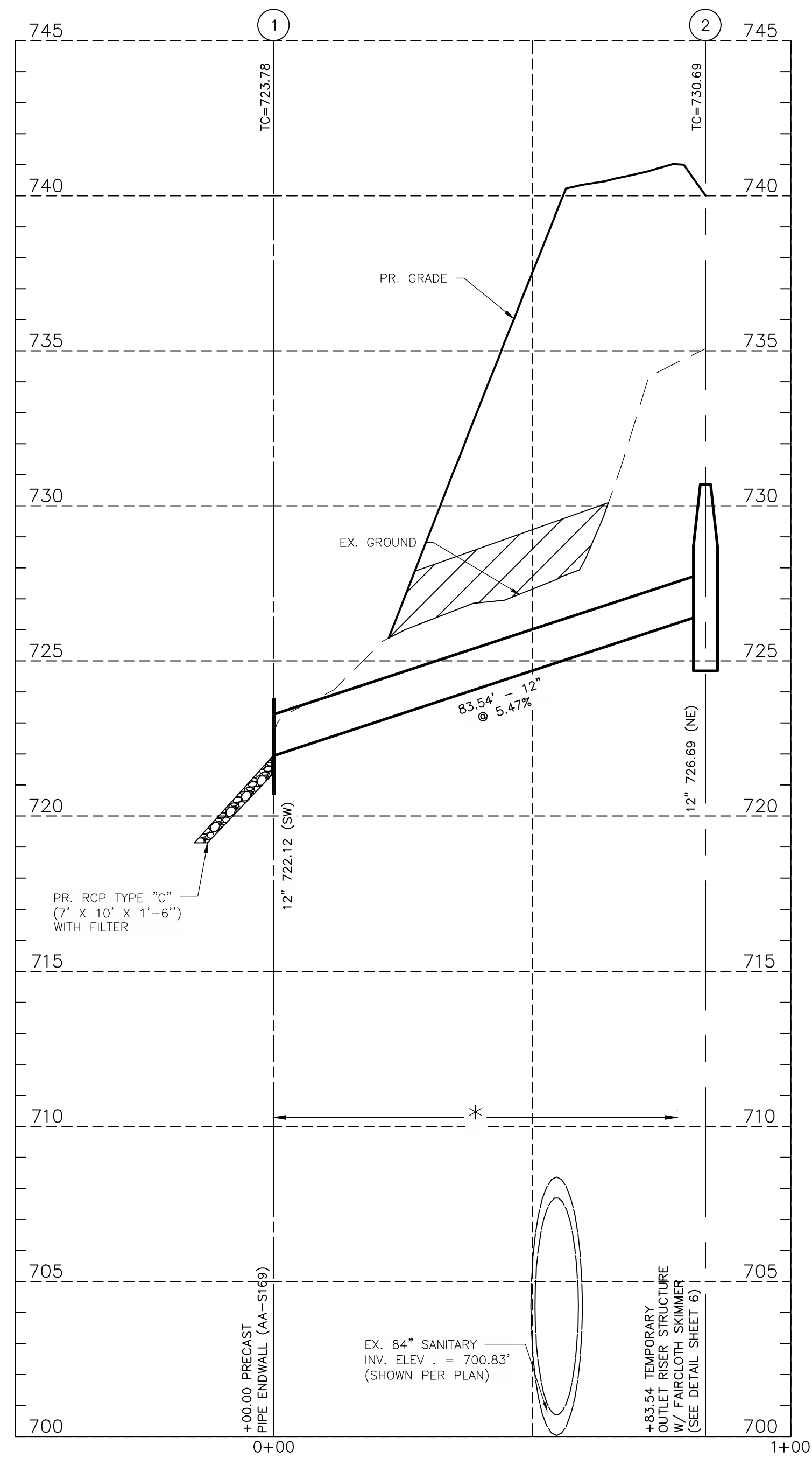
BASIN INFORMATION AND SKIMMER SIZING										
BASIN ID	TRIB. AREA (ACRE)	DEWATERING VOL. REQ. (C.F.) (67 C.Y./AC.)	DEWATERING VOLUME PROV. (C.F.)	SEDIMENT VOL. REQ. (C.F.) (37 C.Y./AC.)	DEWATERING VOLUME PROV. (C.F.)	TOTAL VOL. REQ. (C.F.)	TOTAL VOL. PROV. (C.F.)	SKIMMER SIZE	ORIFICE SIZE (DIA.)	OVERFLOW ELEVATION
A	2.26	4,089	4,787	2,258	5,836	6,347	10,623	2.5"	2.3"	740.50'
B	6.94	12,563	13,985	6,938	10,414	19,501	24,399	4.0"	3.1"	739.50'
C	2.44	4,409	6,434	2,435	4,668	6,844	11,102	2.5"	2.4"	740.50'

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

BASIN DETAILS

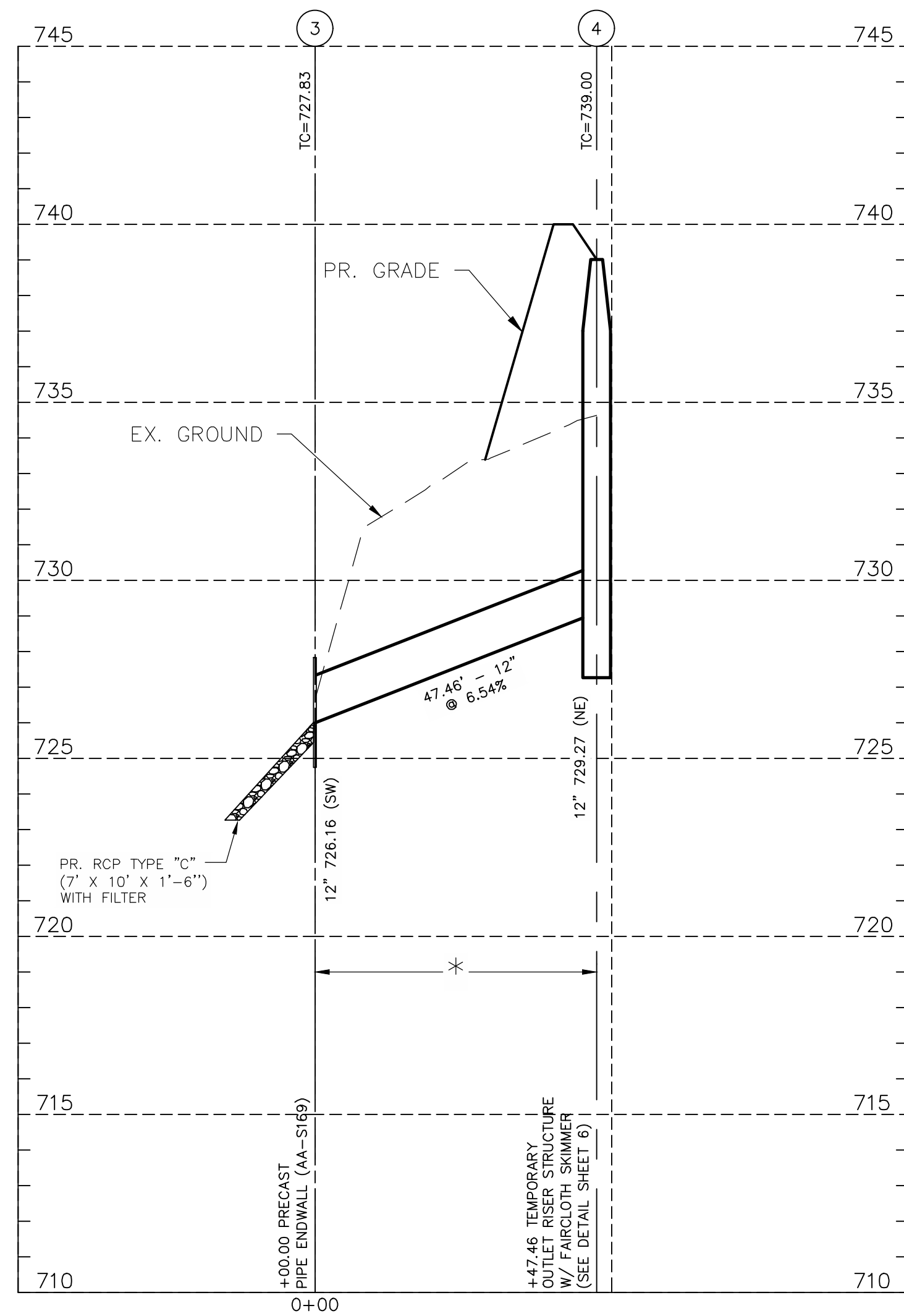
PROJECT TITLE: PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE					
DIVISION USE ONLY			OWNER		
			CONTRACTOR		
			INSPECTOR		
AGREEMENT		COMPLETED			
RPD	CKD	CLD	CON. DR.		

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY	
SCALE: AS SHOWN	SHEET: 6/8
CONTRACT DRAWING NO. CC-19850	RECORD PLAN NO.



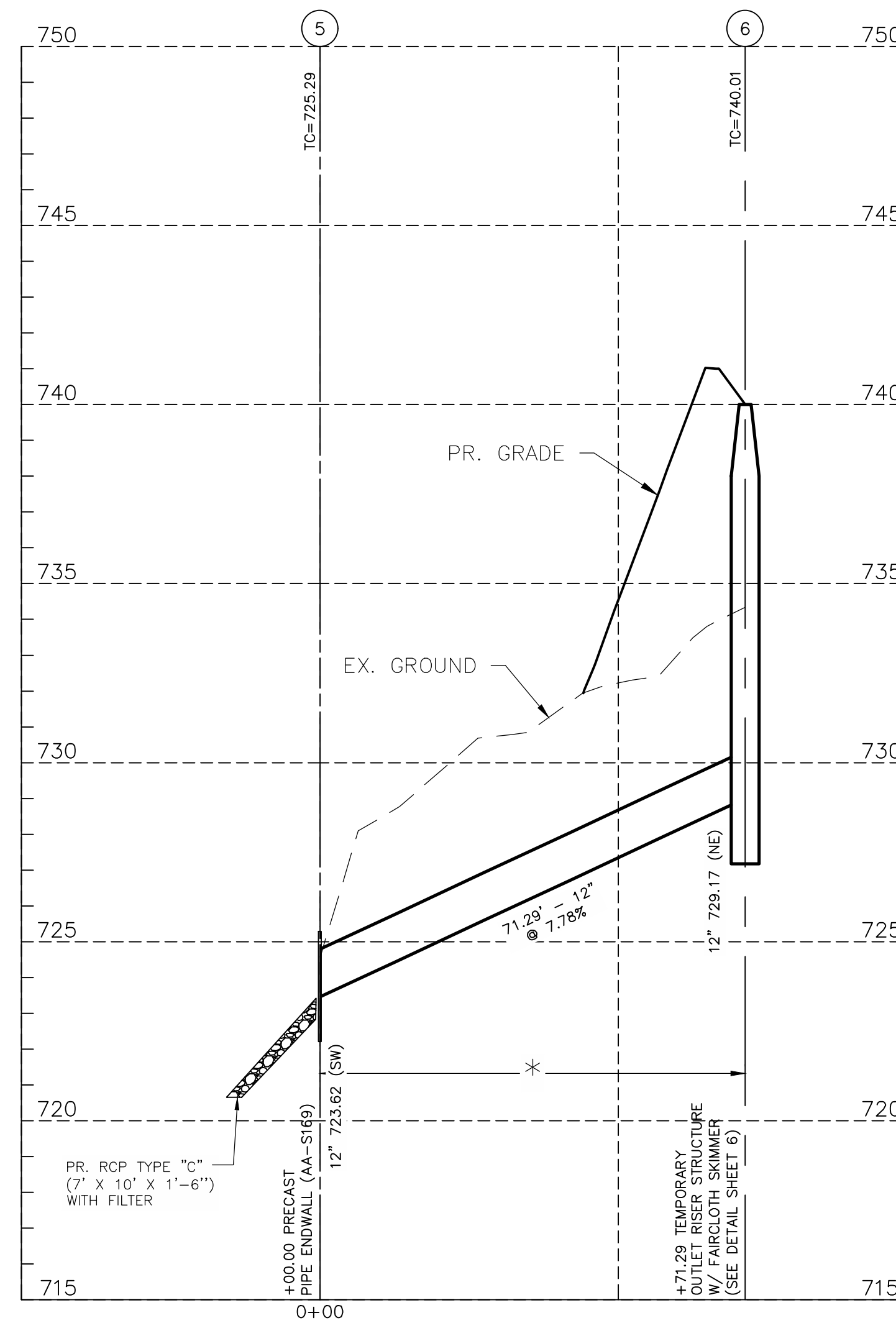
BASIN A OUTLET DETAIL

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



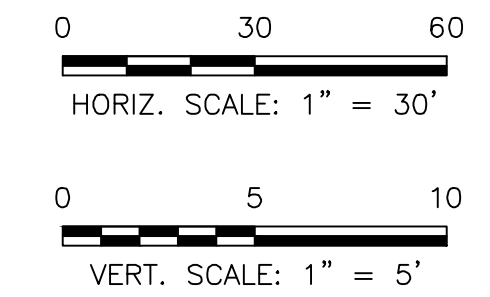
BASIN B OUTLET DETAIL

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



BASIN C OUTLET DETAIL

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



LEGEND:

- * ITEM 911 COMPACTED BACKFILL
- ** ITEM 912 COMPACTED GRANULAR MATERIAL
- # MINIMUM VERTICAL CLEARANCE OF 1.5' BETWEEN STORM SEWER, SANITARY, AND WATER CROSSINGS.
- (CE) CONCRETE ENCASEMENT
- (SGP) SANITARY GRADE PIPE WITH WATER TIGHT JOINTS. ALL STRUCTURES CONNECTED TO SEWER CALLED OUT AS SANITARY GRADE PIPE SHALL HAVE SANITARY GRADE PIPE COUPLINGS AND CONFINED GASKETS.
- (ATG) STRUCTURE TO BE ADJUSTED TO GRADE
- BTP BENTONITE TRENCH PLUG REQUIRED AT ALL LOCATIONS WHERE STORM SEWER APPROXIMATELY EXITS THE PROJECT SITE. SEE DETAIL SHEET 3.

COMPACTED FILL AREA ITEM 203 EMBANKMENT

NOTE: PIPE INSTALLED IN AREAS OF FILL SHALL REQUIRE THE COMPACTED FILL TO BE PLACED 3' ABOVE THE TOP OF THE PIPE OR TO PROPOSED GRADE, WHICHEVER IS LESS, PRIOR TO PIPE INSTALLATION (SEE FILL AREAS ON PROFILES OF SUCH KNOWN LOCATIONS).

STORM SEWER PIPE DESIGN			
START STRUCTURE	END STRUCTURE	BEARING	DISTANCE
1	2	S30° 21' 16"W	83.54'
3	4	S43° 00' 12"W	47.46'
5	6	S60° 37' 25"W	71.29'

STORM SEWER TABLE				
STRUCT. NO.	DESIGN		AS-BUILT	
	NORTHING	EASTING	NORTHING	EASTING
1	720873.28'	1809582.81'		
2	720801.20'	1809540.59'		
3	720681.29'	1809780.17'		
4	720646.58'	1809747.80'		
5	720339.24'	1810036.50'		
6	720304.27'	1809974.37'		

DRAWING: M:\1005036_MCKINLEY\DWG\DATA-REF\PR STORM - MG&F - PHASE 1.DWG SAVED ON: 01/11/23 10:14 REVISED BY: JCUNNINGHAM

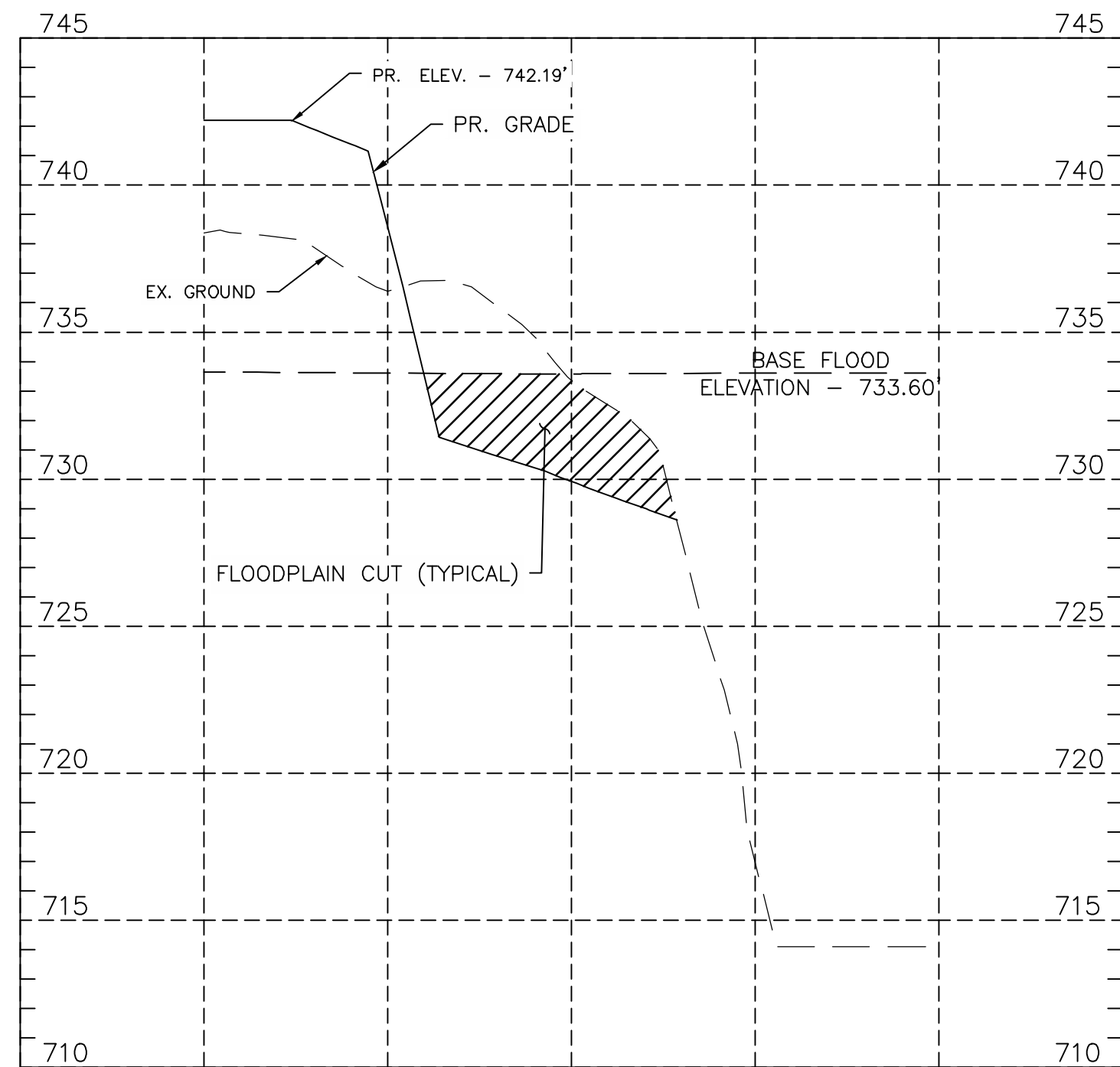
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CITY NO.	COUNTY RECORDER VOL.	PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:		

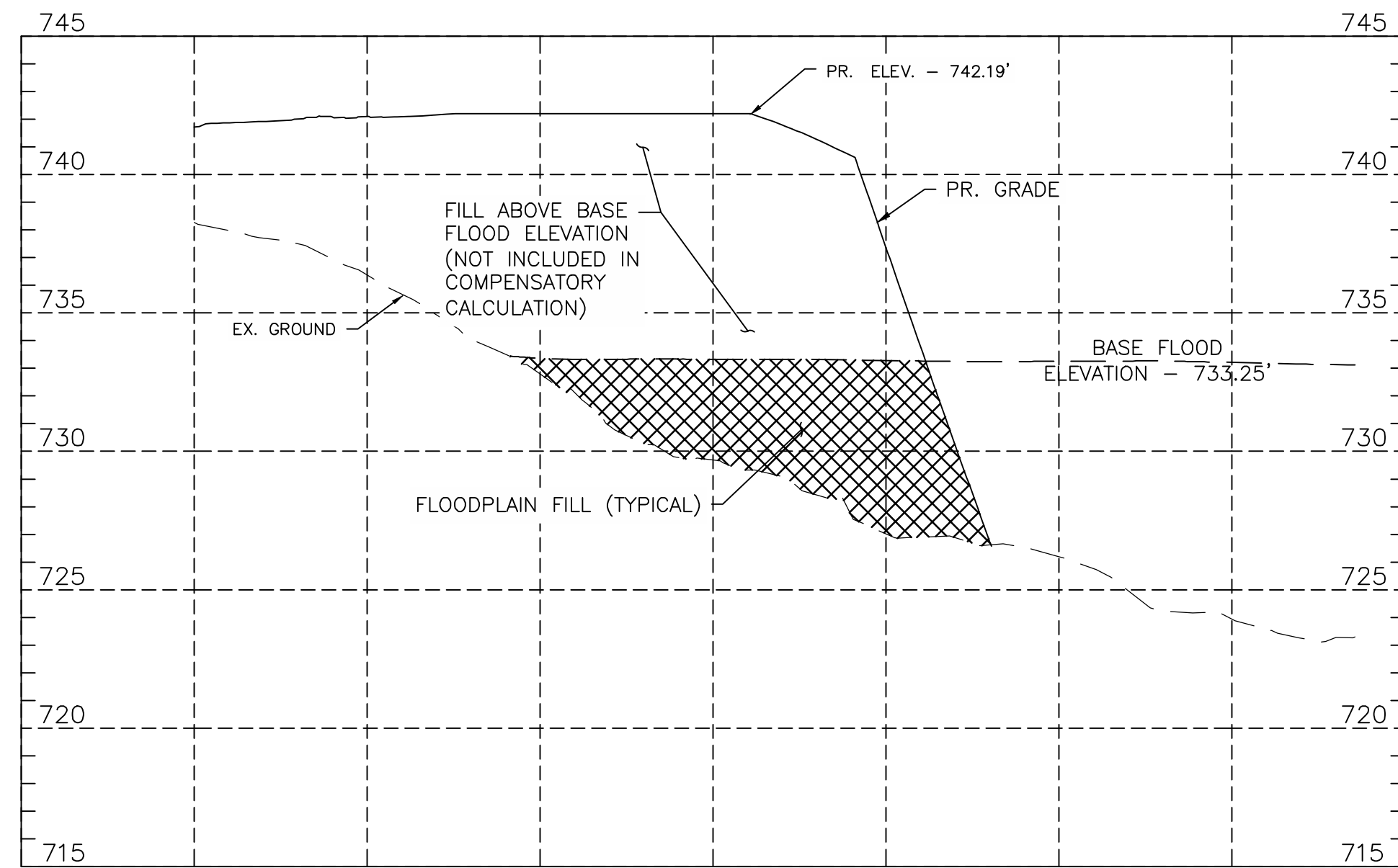
STORM OUTLET PROFILES

PROJECT TITLE:			
PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1 2474 MCKINLEY AVE			
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CLD	CON. DR.

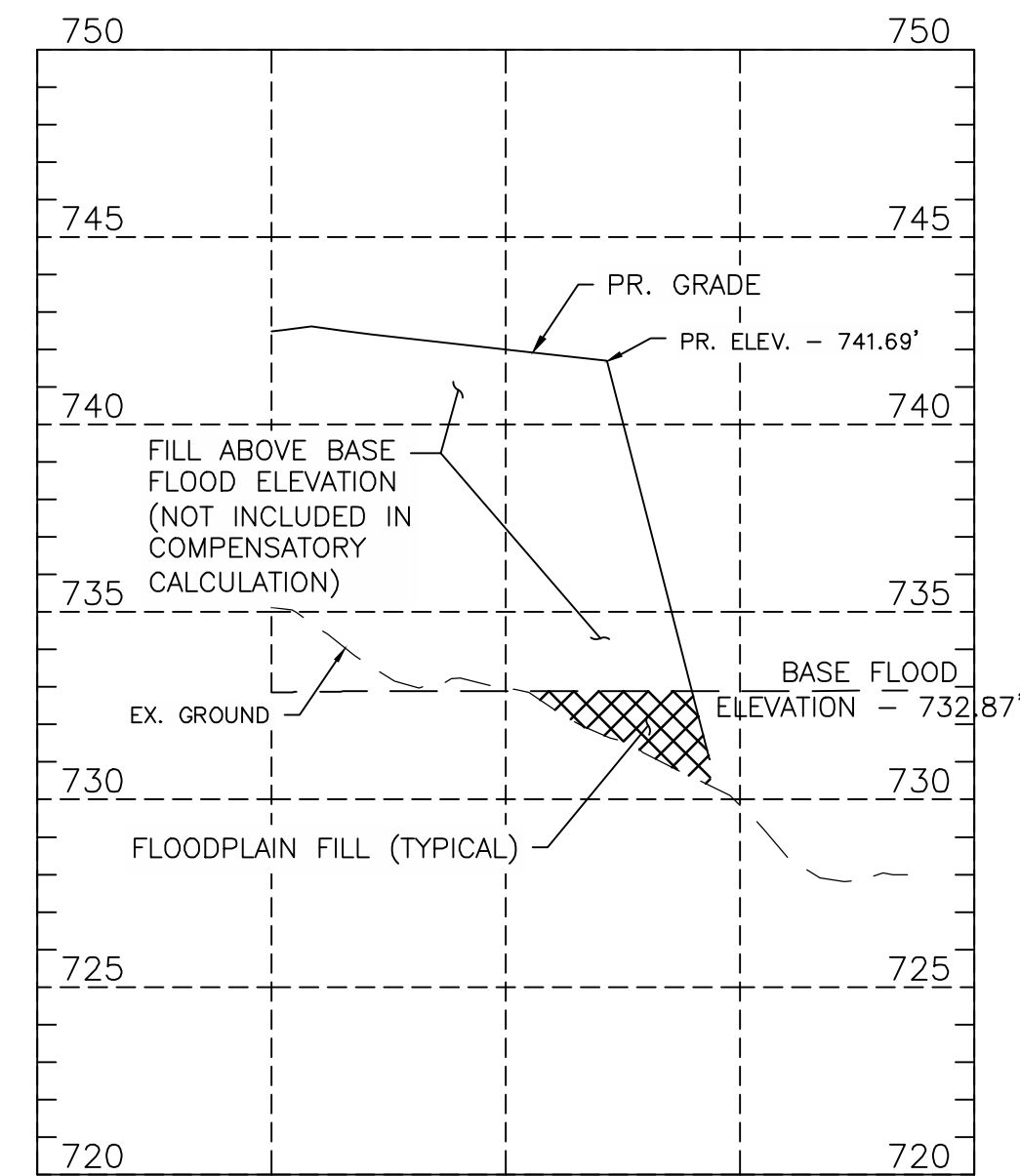
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY	
SCALE: HORIZ.: 1" = 20' VERT.: 1" = 5'	SHEET: 7/8
CONTRACT DRAWING NO. CC-19850	RECORD PLAN NO.



CROSS SECTION A-A
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE = 1" = 5'



CROSS SECTION B-B
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE = 1" = 5'

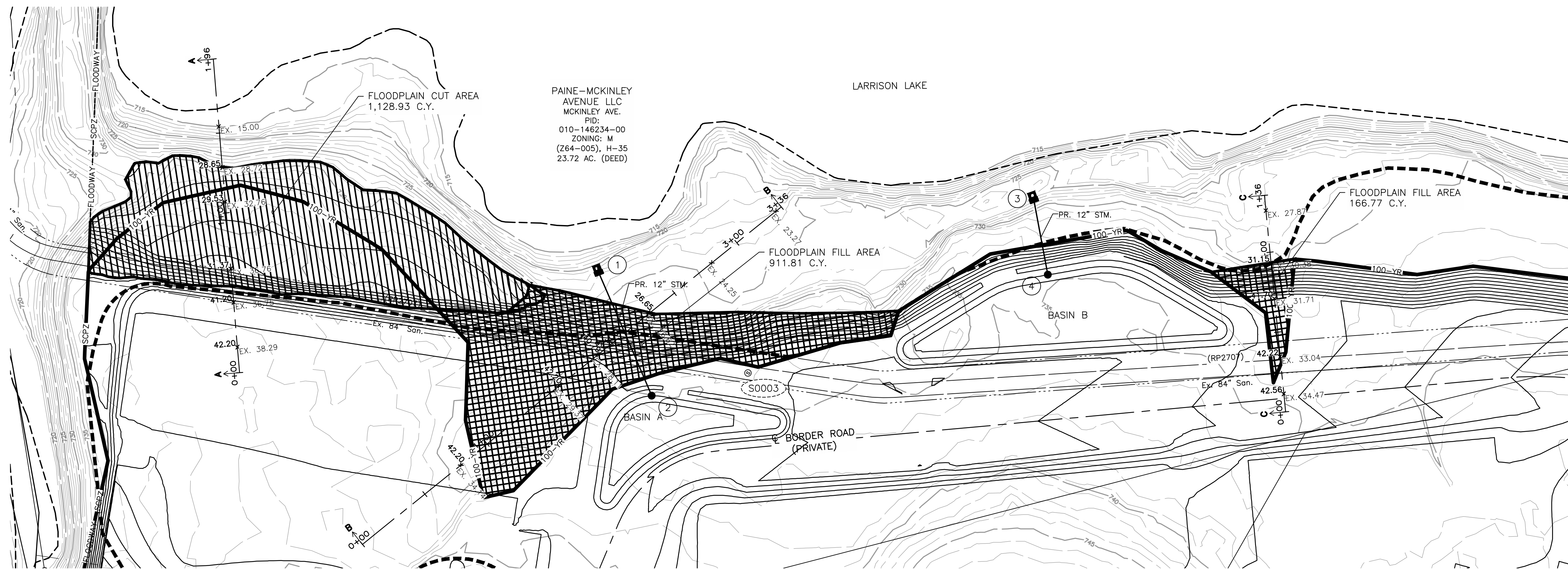


CROSS SECTION C-C
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE = 1" = 5'

- LEGEND**
- 780— PROPOSED CONTOUR (1 FOOT INTERVAL)
 - - -780- - - EX. CONTOUR (1 FOOT INTERVAL)
 - ▬▬▬▬▬ OEPA RULE 13 LIMITS
 - - - FLOODWAY
 - - - - - SCIOTO RIVER / LARRISON LAKE NORMAL WATER LEVEL
 - 100-YR— 100-YEAR FLOODPLAIN LIMITS
 - - - - - SCPZ - - - - - STREAM CORRIDOR PROTECTION ZONE LIMITS (SCPZ)
 - ▨ AREAS OF 100-YEAR FLOODPLAIN FILL
 - ▩ AREAS OF 100-YEAR FLOODPLAIN CUT

NOTE: ALL FILL WITHIN THE 100 YEAR FLOODPLAIN SHALL BE AT LEAST 1.5 FEET ABOVE THE BASE FLOOD ELEVATION.

NOTE:
 COMPENSATORY FLOODPLAIN CUT AND FILL WILL TAKE PLACE ON THIS SITE AS SHOWN ON THIS SHEET.
 CUT: 1,128.93 C.Y.
 FILL: 1,078.58 C.Y.
 NET: 50.35 C.Y. CUT



NOTES FOR MASS GRADING PLANS GOING TO FEMA:
 UPON COMPLETION OF THE FILL IN CONJUNCTION WITH THIS MASS GRADING PLAN, AN APPLICATION FOR A LETTER OF MAP REVISION (LOMR) WILL BE SUBMITTED TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). PRIOR TO THE EFFECTIVE DATE OF THE LOMR, A BUILDING CONSTRUCTED WITHIN THE DESIGNATED FILL AREA WILL BE ELEVATED AND/OR DRY FLOOD PROOFED IN ACCORDANCE WITH THE REQUIREMENTS OF C.C. CHAPTER 1150, FLOODPLAIN MANAGEMENT, OF THE COLUMBUS WATER, SEWER AND ELECTRICITY CODE.

FILLING MAY BE ALLOWED IN THE FLOODWAY FRINGE ONLY IF ASSOCIATED WITH A GRADE AND FILL PLAN. THE GRADE AND FILL PLAN SHALL BE FULLY DETAILED AND SUBMITTED AS PART OF AN APPLICATION FOR A CERTIFICATE OF ZONING CLEARANCE. FILL SHALL NOT BE PLACED UNTIL AFTER THE CERTIFICATE OF ZONING CLEARANCE HAS BEEN ISSUED FOR GRADING AND FILLING.

REGARDLESS OF ANY DETERMINATION ISSUED BY FEMA TO REMOVE AN AREA FILLED AS PERMITTED AND APPROVED FROM THE DESIGNATED SPECIAL FLOOD HAZARD AREA (SFHA), DEVELOPMENT WITHIN THAT AREA OF FILL SHALL BE CONSTRUCTED WITH THE LOWEST FLOOR LEVEL, EXCLUDING A BASEMENT OR CRAWL SPACE, AT OR ABOVE THE FLOOD PROTECTION ELEVATION.

THE LOWEST GRADE ADJACENT TO A BUILDING OR STRUCTURE TO BE CONSTRUCTED WITHIN THE DESIGNATED FILL AREA SHALL BE AT OR ABOVE THE FLOOD PROTECTION ELEVATION, WITH THAT GRADE ELEVATION TO EXTEND AT LEAST TWENTY (20) FEET FROM THE PROPOSED BUILDING TOWARDS THE FLOODWAY OR FLOODING SOURCE.

IN ADDITION, A RESIDENTIAL DWELLING WITHIN THE DESIGNATED FILL AREA MUST HAVE A MEANS OF INGRESS AND EGRESS AT OR ABOVE THE BASE FLOOD ELEVATION THAT EXTENDS CONTINUOUSLY FROM THE DWELLING TO A LOCATION OUTSIDE THE SPECIAL FLOOD HAZARD AREA WITHIN THE SUBJECT SITE.

REASONABLY SAFE FROM FLOODING: ALL STRUCTURES ASSOCIATED WITH FUTURE DEVELOPMENT WITHIN THE AREA OF THE FLOODPLAIN FILL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD OF BEING "REASONABLY SAFE FROM FLOODING", AS OUTLINED IN TECHNICAL BULLETIN 10-01 DATED MAY 2001, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) OR SUCCESSOR DOCUMENTS.

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

PLAN PREPARED BY:		

PROJECT TITLE:
PRIVATE STORM SEWER IMPROVEMENTS FOR WESTBEND DEVELOPMENT PHASE 1
 2474 MCKINLEY AVE

100 YEAR CUT AND FILL

DIVISION USE ONLY				OWNER

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY	
SCALE: AS SHOWN	SHEET: 8/8
CONTRACT DRAWING NO. CC-19850	RECORD PLAN NO.

APPENDIX H

GEOTECHNICAL REPORT AND BORING LOGS



GEOTECHNICAL
CONSULTANTS INC.

MAIN OFFICE
720 Greencrest Drive
Westerville, OH 43081
614.895.1400 **phone**
614.895.1171 **fax**

YOUNGSTOWN OFFICE
8433 South Avenue
Building 1, Suite 1
Boardman, OH 44514
330.965.1400 **phone**
330.965.1410 **fax**

DAYTON OFFICE
2380 Bellbrook Avenue
Xenia, OH 45385
937.736.2053 **phone**

www.gci2000.com

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GEOTECHNICAL
CONSULTANTS INC.

MAIN OFFICE
720 Greencrest Drive 614.895.1400 phone
Westerville, OH 43081 614.895.1171 fax

YOUNGSTOWN OFFICE
8433 South Avenue 330.965.1400 phone
Bldg 1, Suite 1 330.965.1410 fax
Boardman, OH 44514

www.gci2000.com

January 6, 2020

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

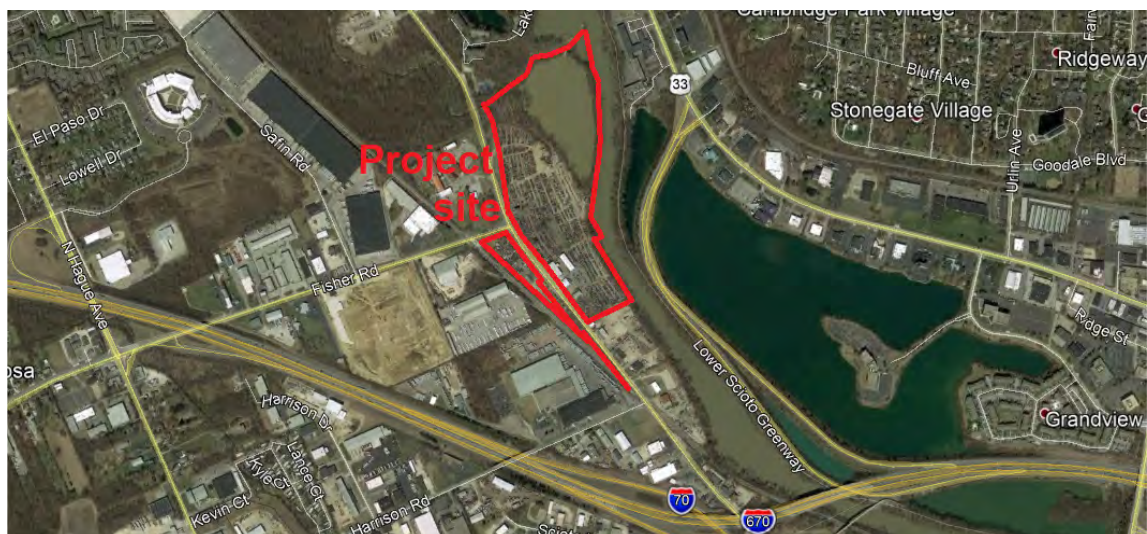
**Reference: Preliminary Geotechnical Assessment
Buckeye Auto Parts
2474 McKinley Avenue - Columbus, Ohio
GCI Project 19-G-22606-A**

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)

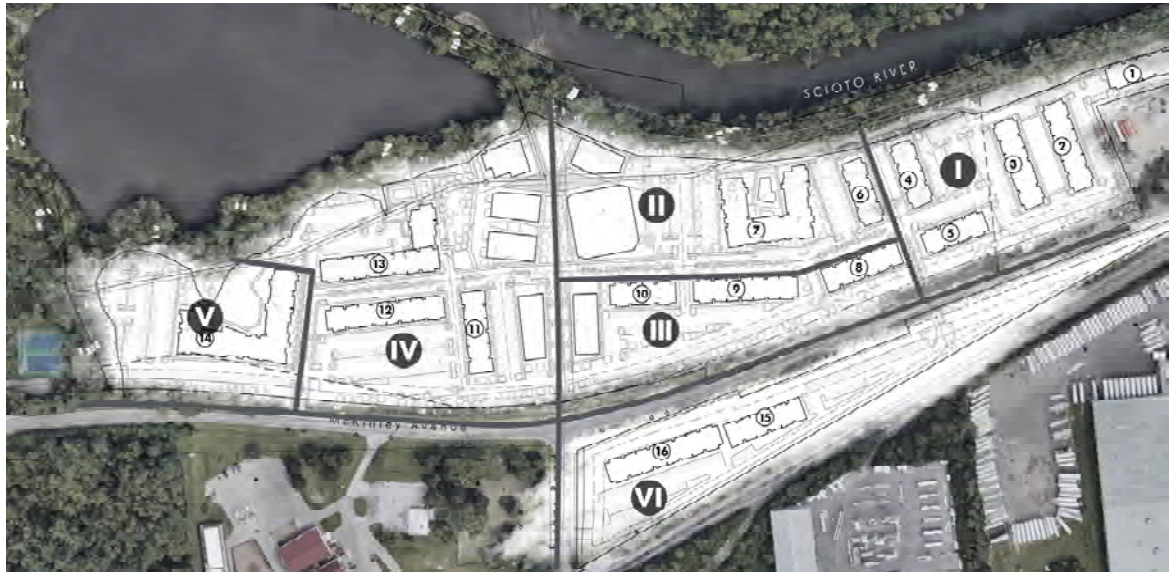


Photo 3 (Taken from eastern-central part of site, facing west)



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. 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 contractor 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 addressed 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. Due to the nature of this site (i.e., random fill placed many years ago), 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. Caprio, P.E.
Principal

Attachments: General Notes for Soil Sampling and Classifications
General Site Location Map
Boring Location Plan
Borings Logs

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



**GEOTECHNICAL
CONSULTANTS INC.**

MAIN OFFICE
720 Greencrest Drive
Westerville, OH 43081
614.895.1400 **phone**
614.895.1171 **fax**

YOUNGSTOWN OFFICE
8433 South Avenue
Building 1, Suite 1
Boardman, OH 44514
330.965.1400 **phone**
330.965.1410 **fax**

DAYTON OFFICE
2380 Bellbrook Avenue
Xenia, OH 45385
937.736.2053 **phone**

www.gci2000.com

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:

COHESIONLESS 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 $\pm 3\%$ 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):

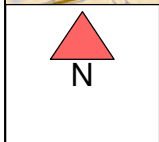
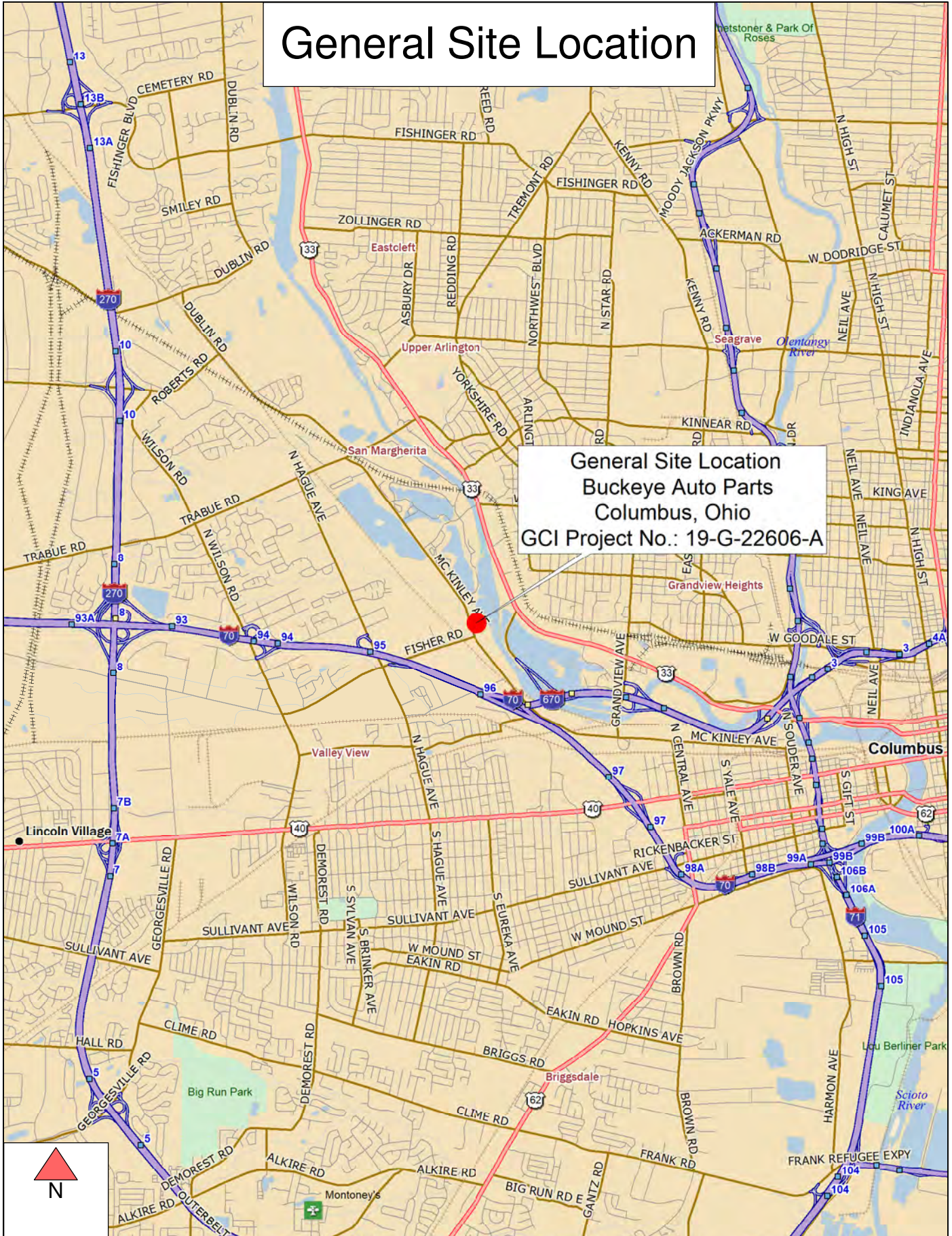
GENERAL NOTES FOR SOIL SAMPLING AND CLASSIFICATIONS

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)		
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	<i>Clean Gravel (less than 5% fines)</i>	
	GW	Well-graded gravel, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel sand mixtures, little or no fines
	<i>Gravels with fines (more than 12% fines)</i>	
	GM	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
SANDS More than 50% of coarse fraction smaller than No. 4 sieve size	<i>Clean Sands (Less than 5% fines)</i>	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly-graded sands, gravelly sands, little or no fines
	<i>Sands with fines (More than 12% fines)</i>	
	SM	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures
Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:		
Less than 5 percentGW, GP, SW, SP		
Greater than 12 percentGM, GC, SM, SC		
5 to 12 percentBorderline cases requiring dual symbols: SP-SM, GP-GM, etc.		
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size)		
SILTS AND CLAYS Liquid Limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays or low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	CL-ML	Inorganic silty clay of slight plasticity, P.I. between 4 and 7
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid Limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays or medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils

General Site Location

General Site Location
 Buckeye Auto Parts
 Columbus, Ohio
 GCI Project No.: 19-G-22606-A

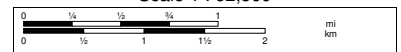


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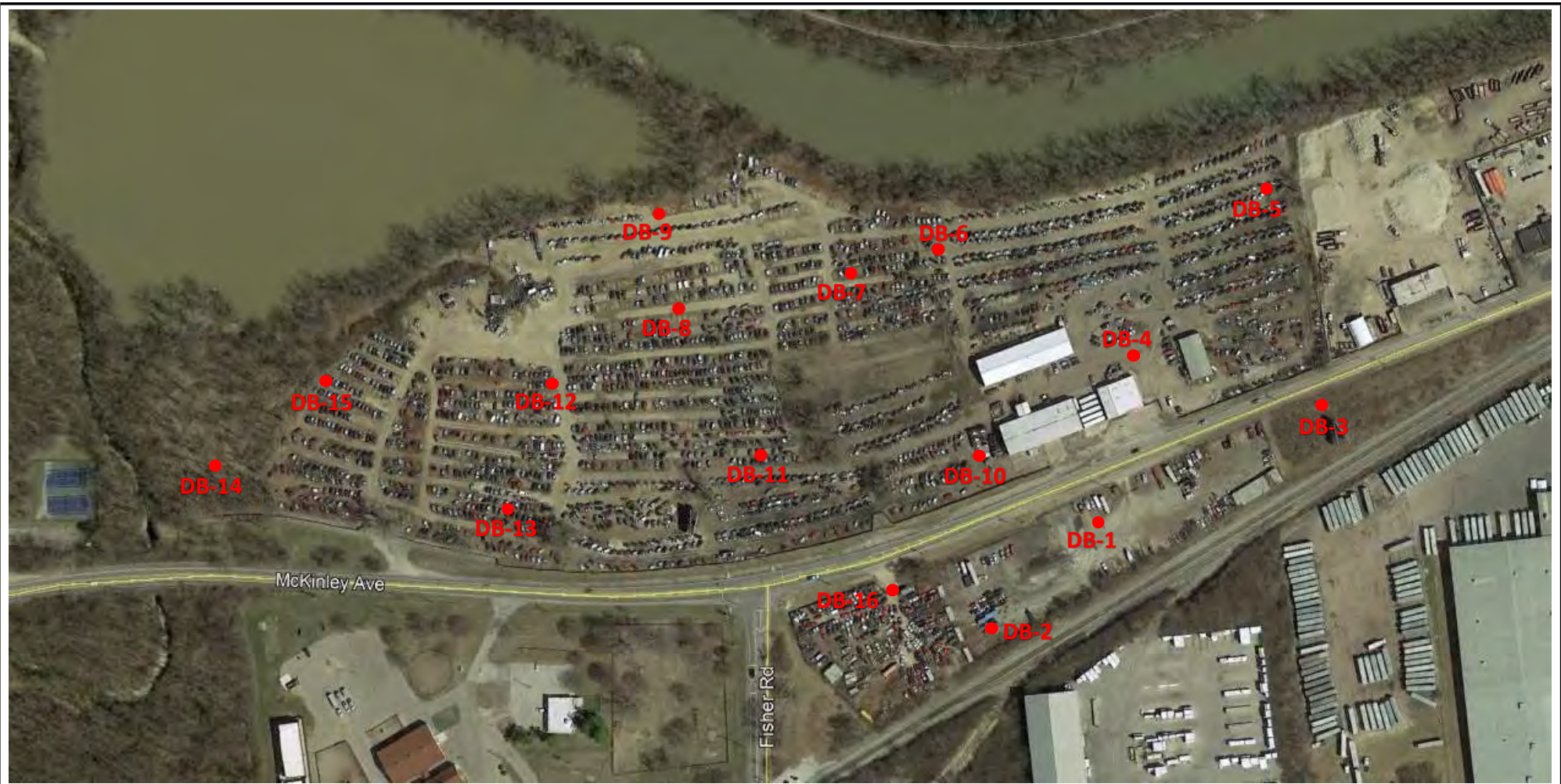
www.delorme.com

Scale 1 : 62,500



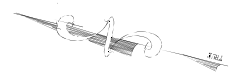
1" = 5,208.3 ft

Data Zoom 11-6



McKinley Ave

Fisher Rd



● 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





● Boring Location

BORING LOCATION PLAN - Conceptual Master Plan

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
<u>24.0</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%			Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense		Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard		
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
		0.0-2.0	SS	11	33	6	Moist	1.5	FILL: Dark Gray Silty Sand with Gravel; contains cinders and brick		
				7							
		2.0-4.0	SS	7	8	2	Moist	2.5	FILL: Light Gray Silty Sand with Gravel; contains concrete		
				3							
5		4.0-6.0	SS	6	7	6	Very Moist	6.0	FILL: Dark brown mix of clay/silt fines, sand, wood, gravel, and cinders Low recovery for 4' - 6' depth sample		
				1							
		6.0-8.0	SS	3	2	4	Very Moist	8.5	FILL: Mostly wood with brick fragments, sand, and gravel Low recovery for 6' - 8' depth sample		
				9							
		8.0-10.0	SS	3	6	8	Moist	10.0	FILL: Brown mix of clay/silt fines, sand, gravel, glass, cinders, and wood		
				9							
10		10.0-12.0	SS	8	5	7	Very Moist	18.5	FILL: Mostly wood with sand, clay/silt fines, and gravel		
				13							
		13.5-15.0	SS	7	6	4	Moist	23.5	FILL: Dark brown mix of clay/silt fines, sand, wood, gravel, and brick		
15								25.0	Water Seepage at 23.5' FILL: Dark gray mix of sand, clay/silt fines, gravel, and wood		
		18.5-20.0	SS	3	1	3	Very Moist	25.0	FILL: Dark gray mix of sand, clay/silt fines, gravel, and wood		
20								25.0	FILL: Dark gray mix of sand, clay/silt fines, gravel, and wood		
		23.5-25.0	SS	5	6	3	Wet	25.0	FILL: Dark gray mix of sand, clay/silt fines, gravel, and wood		
25								25.0	FILL: Dark gray mix of sand, clay/silt fines, gravel, and wood		
								BOTTOM OF BORING: 25'			

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
<u>24.5</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%			Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense		Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard		
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
		0.0-2.0	SS	12	9	2	Moist	0.6	Topsoil		
				1				1.5	FILL: Gray mix of silty sand, gravel, and concrete		
		2.0-4.0	SS	4	2	3	Moist	4.0	FILL: Brown mix of sand, clay/silt fines, gravel, concrete, brick, and cinders		
				4					FILL: Brown mix of clay/silt fines, sand, and wood		
5		4.0-6.0	SS	4	4	3	Moist	6.0	FILL: Brown mix of silty sand, gravel, concrete, wood, and cloth		
				1					FILL: Brown mix of silty sand, gravel, concrete, wood, and cloth		
		6.0-8.0	SS	7	1	1	Moist	10.0	FILL: Brown mix of clay/silt fines, sand, gravel, concrete, cloth, cinders, and glass		
				1					FILL: Brown mix of clay/silt fines, sand, gravel, concrete, cloth, cinders, and glass		
10		8.0-10.0	SS	3	1	2	Very Moist	10.0	FILL: Brown mix of clay/silt fines, sand, gravel, concrete, cloth, cinders, and glass		
				3					FILL: Brown mix of clay/silt fines, sand, gravel, concrete, cloth, cinders, and glass		
		10.0-12.0	SS	2	3	7	Very Moist	18.0	FILL: Dark gray mix of clay/silt fines, cinders, sand, cloth, and glass		
				10					FILL: Dark gray mix of clay/silt fines, cinders, sand, cloth, and glass		
15		13.5-15.0	SS	3	1	1	Very Moist	23.0	Water Seepage at 23'		
									FILL: Mix of brown sandy lean clay, wood, and cloth		
		18.5-20.0	SS	3	2	2	Very Moist	28.0	FILL: Mix of dark gray sand, wood, and glass		
									FILL: Mix of dark gray sand, wood, and glass		
20		23.5-25.0	SS	6	2	2	Wet	30.0	FILL: Mix of dark gray sand, wood, and glass		
									FILL: Mix of dark gray sand, wood, and glass		
25		28.5-30.0	SS	5	5	4	Wet	30.0	FILL: Mix of dark gray sand, wood, and glass		
									FILL: Mix of dark gray sand, wood, and glass		
30								30.0	FILL: Mix of dark gray sand, wood, and glass		
									FILL: Mix of dark gray sand, wood, and glass		
BOTTOM OF BORING: 30'											

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



TEST BORING LOG

PROJECT NAME Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH BORING NO. DB-3
 CLIENT McKinley Avenue Acquisitions, LLC PROJ. _____ SURF. ELEV. _____
 NO. 19-G-22606-A DATE DRILLED 11/11/2019

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler										
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace			Less than 5%		Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense			Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard					
				Few			5 to 10%										
			Little			15 to 25%											
			Some			30 to 45%											
			Mostly			50 to 100%											
LOCATION OF BORING												See Boring Location Plan					
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION								
				0-6	6-12	12-18			Remarks include color, type of soil, etc. Rock-color, type, condition, hardness								
5		0.0-2.0	SS	5	9	10	Moist	0.2	Topsoil								
				9					FILL: Brown mix of sand, gravel, concrete, and clay/silt fines								
		2.0-4.0	SS	5	9	9	Moist	3.0	Mostly clay noted from a 2' - 3' depth								
				3				4.0	FILL: Gray mix of lean clay and cinders								
		4.0-6.0	SS	5	9	6	Moist	6.0	FILL: Brown mix of sand, clay/silt fines, cinders, gravel, and glass								
10				6					FILL: Dark gray mix of clay/silt fines, sand, gravel, cinders, concrete, wood, cloth, and glass								
		6.0-8.0	SS	6	2	2	Moist										
				2													
		8.0-10.0	SS	6	2	2	Very Moist										
				2													
15																	
		13.5-15.0	SS	8	6	3	Very Moist	13.5	FILL: Dark brown mix of sand, gravel, concrete, clay/silt fines, wood, and cloth								
		18.5-20.0	SS	10	10	10	Very Moist		Very low recovery for 18.5' - 20' depth sample								
20																	
		23.5-25.0	SS	8	4	8	Moist	23.5	FILL: Light Brown Silt (similar to limestone tailings); contains sand and gravel								
								25.0									
25									BOTTOM OF BORING: 25'								

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency		
				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft	
				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff	
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff	
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff	
									30 +	Hard	
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
5		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, brick, and glass		
		2.0-4.0	SS	8	6	6	Moist	3.0	FILL: Brown mix of sand, gravel, concrete, wood, and clay/silt fines		
				4					FILL: Brown mix of sand, gravel, concrete, wood, and clay/silt fines		
		4.0-6.0	SS	6	36	29	Moist	5.0	FILL: Light Brown Silty Sand with Gravel		
				4				6.0	FILL: Brown mix of gravel, sand, brick, clay/silt fines, cinders, and glass		
		6.0-8.0	SS	12	6	4	Moist	8.0	FILL: Brown Sandy Lean Clay; contains wood		
				8				9.0	FILL: Gray Sandy Lean Clay; contains wood, cinders, and brick		
10		8.0-10.0	SS	5	5	6			FILL: Gray Sandy Lean Clay; contains wood, cinders, and brick		
				19							
								13.0	FILL: Gray mix of clay, sand, brick, concrete, and wood		
		13.5-15.0	SS	3	4	5	Moist				
15											
		18.5-20.0	SS	5	4	5	Very Moist				
20											
		23.5-25.0	SS	1	0	0	Very Moist	23.0	FILL: Gray mix of wood, clay/silt fines, and sand		
								25.0	Possible void; spoon dropped with no hammer from 24'-25'		
25									BOTTOM OF BORING: 25'		

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler					
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense			Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard		
				Few	5 to 10%							
				Little	15 to 25%							
				Some	30 to 45%							
				Mostly	50 to 100%							
LOCATION OF BORING See Boring Location Plan												
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness			
				0-6	6-12	12-18						
5		0.0-2.0	SS	10	8	3	Moist	2.0	FILL: Gray mix of sand, clay/silt fines, gravel, concrete, glass, brick, and cinders			
		2.0-4.0	SS	3	3	4	Very Moist					
		4.0-6.0	SS	5	4	2	Very Moist					
		6.0-8.0	SS	4	0	0	Very Moist					
10		8.0-10.0	SS	2	1	1	Very Moist	9.0	FILL: Dark brown mix of clay/silt fines, sand, gravel, brick, cinders, and glass Low recovery at 6' - 8' depth sample Possible void(s) in 6.5'-8' depth range FILL: Gray Lean Clay; contains cinders, gravel, and glass			
		13.5-15.0	SS	2	1	2	Very Moist					
20		1.0-2.25	SS	4	4	3	Very Moist	18.5	FILL: Gray Lean Clay			
		21.0-21.3	SS	50/4"								
25								21.3	FILL: Sample contained concrete fragments and fines BOTTOM OF BORING: 21.3'			

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency		
				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft	
				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff	
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff	
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff	
									30 +	Hard	
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
5	4.5+	0.0-2.0	SS	6	4	8	Moist	5.0	FILL: Brown Sandy Lean Clay with Gravel; contains brick and cinders		
		2.0-4.0	SS	6	8	4	Moist				
5		4.0-6.0	SS	3	5	6	Moist	8.0	FILL: Brown mix of sandy lean clay and fine sand Dark Gray Sandy Lean Clay with Gravel noted at 7' - 7.5' depth Gray mix of sand and gravel noted at 7.5' - 8' depth		
	4.0	6.0-8.0	SS	8	5	26	Moist				
10		8.0-10.0	SS	4	1	1	Moist	13.5	FILL: Dark gray mix of sand, gravel, and clay/silt fines Wood pieces noted at 9' - 10' depth interval		
				14							
15		13.5-15.0	SS	4	4	4	Very Moist	23.0	FILL: Mix of dark gray sand, cinders, clay/silt fines, gravel, concrete, and wood		
20		18.5-20.0	SS	8	3	4	Very Moist	25.0	Very low recovery for 18.5' - 20' depth sample		
25		23.5-25.0	SS	5	1	4	Very Moist		FILL: Dark gray mix of sand, cinders, clay/silt fines, wood, and gravel		
BOTTOM OF BORING: 25'											

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



TEST BORING LOG

PROJECT NAME Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH BORING NO. DB- 7
 CLIENT McKinley Avenue Acquisitions, LLC PROJ. _____ SURF. ELEV. _____
 NO. 19-G-22606-A DATE DRILLED 11/12/2019

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency		
				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft	
				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff	
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff	
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff	
									30 +	Hard	
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				From	To	12-18					
		0.0-2.0	SS	10	10	7	Moist	0.2	Topsoil		
				6					FILL: Dark brown mix of silty sand and concrete fragments		
		2.0-4.0	SS	6	3	3	Moist	3.0	FILL: Dark gray mix of sand, clay/silt fines, cinders, concrete fragments, and gravel (odor noted)		
				3							
		4.0-6.0	SS	3	1	1	Moist	4.0	Sample from 4' - 6' depth contains metal (odor noted)		
				1							
		6.0-7.1	SS	6	29	50/1"	Very Moist	6.0	FILL Dark brown mix of clay/silt fines, sand, and wood (odor noted)		
								7.1	BOTTOM OF BORING: 7.1'		

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler					
<u>13.0</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%			Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense		Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard			
LOCATION OF BORING See Boring Location Plan												
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness			
				0-6	6-12	12-18						
5		0.0-2.0	SS	12	7	7	Moist	1.5	FILL: Brown mix of sand, clay/silt fines, gravel, and cinders			
				6			Moist		FILL: Dark brown mix of sand, clay/silt fines, gravel, concrete, and cinders			
		2.0-4.0	SS	6	6	8			Moist			
				10			Moist					
			4.0-6.0	SS	9	16			3	Moist		
				5			Moist		FILL: Brown mix of sandy lean clay, sand, and gravel			
			6.0-8.0	SS	4	4			6	Moist	FILL: Gray mix of sand, cinders, clay/silt fines, gravel, wood, and brick	
				3			Very Moist		FILL: Brown mix of clay, sand, gravel, brick, and cinders			
10		8.0-10.0	SS	2	3	2		Very Moist				
				2			Wet					
								Wet				
			13.5-15.0	SS	1	2	1		Wet	Water Seepage at 13'		
							Wet	FILL: Mix of sand, cinders, wood, and gravel				
								Very Moist				
		0.75-1.5	18.5-20.0	SS	1	2	3		Very Moist	FILL: Olive Lean Clay with Sand		
	20							Wet				
							Wet					
			23.5-25.0	SS	5	8		17	Wet	FILL: Mix of limestone fragments and fine sand		
							Wet					
								Wet				
							Wet					
								Wet				
							Wet					
25								Wet				
							Wet					
								Wet				
							Wet					
								Wet				
							Wet					
								Wet				
							Wet					
BOTTOM OF BORING: 25'												

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



TEST BORING LOG

PROJECT NAME Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH BORING NO. DB-10
 CLIENT McKinley Avenue Acquisitions, LLC PROJ. NO. 19-G-22606-A SURF. ELEV. _____
 DATE DRILLED 11/15/2019

GROUND WATER OBSERVATION <u>None</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS	Proportions Used Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%	140 lb Wt. x 30" fall on 2" O.D. Sampler <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black;">Cohesionless Density</td> <td>Cohesive Consistency</td> </tr> <tr> <td style="border-right: 1px solid black;">0 - 10 Loose</td> <td>0 - 4 Soft</td> </tr> <tr> <td style="border-right: 1px solid black;">10 - 30 Medium Dense</td> <td>4 - 8 Medium Stiff</td> </tr> <tr> <td style="border-right: 1px solid black;">30 - 50 Dense</td> <td>8 - 15 Stiff</td> </tr> <tr> <td style="border-right: 1px solid black;">50 + Very Dense</td> <td>15 - 30 Very Stiff</td> </tr> <tr> <td></td> <td>30 + Hard</td> </tr> </table>	Cohesionless 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
Cohesionless 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													

LOCATION OF BORING See Boring Location Plan

DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
				From	To	0-6			
		0.0-2.0	SS	47	18	16	Moist	2.0	FILL: Dark gray mix of concrete fragments, gravel, and sand
				16					
		2.0-4.0	SS	10	8	7	Moist	2.0	FILL: Brown mix of sand, gravel, cinders, brick, and clay/silt fines
				7					
		4.0-6.0	SS	4	3	2	Moist	2.0	No recovery for 4' - 6' depth sample
				1					
5		6.0-8.0	SS	4	8	7	Moist	2.0	
				6					
		8.0-9.4	SS	3	2	50/5"	Moist	9.0	
		10.0-10.2	SS	50/2"				10.2	Possible Limestone Bedrock
10									
									10.2'
									BOTTOM OF BORING: 10.2'
15									

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



TEST BORING LOG

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

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
<u>23.5</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%			Cohesionless Density 0 - 10 Loose 10 - 30 Medium Dense 30 - 50 Dense 50 + Very Dense		Cohesive Consistency 0 - 4 Soft 4 - 8 Medium Stiff 8 - 15 Stiff 15 - 30 Very Stiff 30 + Hard		
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
5		0.0-2.0	SS	21	17	8	Moist	8.0	FILL: Brown and gray mix of sand, cinders, concrete fragments, glass, and gravel		
				5							
		2.0-4.0	SS	8	4	2	Moist				
				2							
		4.0-6.0	SS	1	2	1	Moist				
10				1				13.5	FILL: Brown mix of sand, clay/silt fines, gravel, and cinders Low recovery for 8' - 10' depth sample		
		6.0-8.0	SS	1	2	1	Moist				
				1							
		8.0-10.0	SS	5	4	3	Very Moist				
				2							
15		13.5-15.0	SS	15	6	8	Very Moist	20.0	FILL: Dark gray mix of sand, gravel, concrete fragments, and cinders No recovery for 18.5' - 20' depth sample Water Seepage at 20'		
		18.5-20.0	SS	6	8	3					
25								24.4	FILL: Mix of limestone fragments and gravel BOTTOM OF BORING: 24.4'		
		23.5-24.4	SS	14	50/5"		Wet				

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



TEST BORING LOG

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

GROUND WATER OBSERVATION <u>18.0</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS	Proportions Used Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%	140 lb Wt. x 30" fall on 2" O.D. Sampler <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Cohesionless Density</td> <td style="width: 33%;">Cohesive Consistency</td> <td style="width: 34%;"></td> </tr> <tr> <td>0 - 10 Loose</td> <td>0 - 4</td> <td>Soft</td> </tr> <tr> <td>10 - 30 Medium Dense</td> <td>4 - 8</td> <td>Medium Stiff</td> </tr> <tr> <td>30 - 50 Dense</td> <td>8 - 15</td> <td>Stiff</td> </tr> <tr> <td>50 + Very Dense</td> <td>15 - 30</td> <td>Very Stiff</td> </tr> <tr> <td></td> <td>30 +</td> <td>Hard</td> </tr> </table>	Cohesionless 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
Cohesionless 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																		

LOCATION OF BORING See Boring Location Plan

DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
				From	To	To			
				0-6	6-12	12-18			
		0.0-2.0	SS	21	19	20	Moist		FILL: Brown Sandy Lean Clay
				18				2.0	
	4.5+	2.0-4.0	SS	8	16	26	Moist		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
				12				6.0	
		6.0-8.0	SS	2	3	4	Moist		FILL: Dark gray mix of lean clay, sand, wood, and glass
				4				8.0	
		8.0-10.0	SS	6	8	4	Very Moist		FILL: Mix of wood and gray clay
10				2					No recovery for 8' - 10' depth sample
								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		FILL: Mix of limestone fragments, wood, sand, and fines
20									
		22.0-22.2	SS	50/2"				22.0	
								22.2	Possible Limestone Bedrock
25									BOTTOM OF BORING: 22.2'

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



TEST BORING LOG

PROJECT NAME Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH BORING NO. DB-13
 CLIENT McKinley Avenue Acquisitions, LLC PROJ. NO. 19-G-22606-A SURF. ELEV. _____
 DATE DRILLED 11/15/2019

GROUND WATER OBSERVATION <u>None</u> FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS	Proportions Used Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%	140 lb Wt. x 30" fall on 2" O.D. Sampler <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black;">Cohesionless Density</td> <td>Cohesive Consistency</td> </tr> <tr> <td style="border-right: 1px solid black;">0 - 10 Loose</td> <td>0 - 4 Soft</td> </tr> <tr> <td style="border-right: 1px solid black;">10 - 30 Medium Dense</td> <td>4 - 8 Medium Stiff</td> </tr> <tr> <td style="border-right: 1px solid black;">30 - 50 Dense</td> <td>8 - 15 Stiff</td> </tr> <tr> <td style="border-right: 1px solid black;">50 + Very Dense</td> <td>15 - 30 Very Stiff</td> </tr> <tr> <td></td> <td>30 + Hard</td> </tr> </table>	Cohesionless 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
Cohesionless 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													

LOCATION OF BORING See Boring Location Plan

DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
				0-6	6-12	12-18			
5		0.0-2.0	SS	6	4	7	Moist	0.4	Topsoil FILL: Brown mix of sand, gravel, and clay/silt fines
		2.0-4.0	SS	5	7	7	Moist		
		4.0-6.0	SS	5	7	7	Moist	4.0	FILL: Brown mix of clay/silt fines, sand, and gravel Low recovery for 4' - 6' depth sample
		6.0-8.0	SS	4	3	3	Moist		Limestone fragments in sample
10		8.0-10.0	SS	3	4	4	Moist		
		13.5-14.6	SS	8	25	50/1"	Moist	14.0	
		15.0-15.1	SS	50/1"				15.1	Possible Limestone Bedrock
15									
									BOTTOM OF BORING: 15.1'

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



TEST BORING LOG

PROJECT NAME Buckeye Auto Parts - 2474 McKinley Ave., Columbus, OH BORING NO. DB-16
 CLIENT McKinley Avenue Acquisitions, LLC PROJ. NO. 19-G-22606-A SURF. ELEV. _____
 DATE DRILLED 11/18/2019

GROUND WATER OBSERVATION	Proportions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler	
<u>None</u> FEET BELOW SURFACE AT COMPLETION	Trace Less than 5%	Cohesionless Density	Cohesive Consistency
_____ FEET BELOW SURFACE AT 24 HOURS	Few 5 to 10%	0 - 10 Loose	0 - 4 Soft
_____ FEET BELOW SURFACE AT _____ HOURS	Little 15 to 25%	10 - 30 Medium Dense	4 - 8 Medium Stiff
	Some 30 to 45%	30 - 50 Dense	8 - 15 Stiff
	Mostly 50 to 100%	50 + Very Dense	15 - 30 Very Stiff
			30 + Hard

LOCATION OF BORING **See Boring Location Plan**

DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness
				From	To	0-6			
		0.0-2.0	SS	4	9	8	Moist		FILL: Brown mix of clay/silt fines, sand, gravel, and brick No recovery for 0' - 2' depth sample
				7				2.0	
		2.0-4.0	SS	5	6	11	Moist		FILL: Gray Silty Sand with Gravel
				14				4.0	
5		4.0-6.0	SS	1	1	13	Moist		FILL: Brown mix of sand, gravel, concrete fragments, and cinders
				17				6.0	
	3.0	6.0-8.0	SS	10	6	5	Moist		FILL: Brown mix of silty sand, sandy lean clay, and gravel
				6				8.0	
		8.0-10.0	SS	7	8	9	Moist		FILL: Brown mix of clay/silt fines, sand, gravel, brick, and cinders No recovery fro 8' - 10' depth sample
10				12					
		13.5-15.0	SS	3	1	1	Very Moist		FILL: Brown Sandy Lean Clay; contains brick fragments
15								13.5	
	1.0	18.5-20.0	SS	7	5	5	Very Moist		FILL: Brown Sandy Lean Clay; contains wood and brick fragments
20								18.5	
		23.5-25.0	SS	8	6	3	Very Moist		BOTTOM OF BORING: 25.0'
25								25.0	

* 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). 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. 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.