

Addendum No. 2

Reconstruction of Alley Retaining Wall Between Jefferson St. & Nassau Rd., From 61st Street to 63rd Street

PHDC

Issue Date: December 18, 2024

ITEMS:

1. Submission deadline revised to no later than 3:00 PM on Monday, December 23, 2024
 2. Questions & Answers - Combined (attached)
 3. Bid Bond (Revised & Attached)
 4. Please see attached the Geotech Memorandum. This is being submitted in response to Question #8.
 5. Please see attached the Final Construction Plans – Addendum 2.pdf. This is being submitted in response to Question #10. Since the response to Question 10 is that the field office, temp telephone, and fax machine are NOT required, those respective items were removed from the “Summary of Items and Quantity” on sheet 4 of 27 of the plans.
- Bidders must acknowledge receipt of Addendum No. 2. The signed acknowledgement must be included in your bid proposal. Please sign below:

Acknowledgement of Addendum No. 2

Jefferson Street & Nassau Road RFP
Questions + Answers

Prevailing1.) It was mentioned at the Pre-Bid meeting that there will not be a public bid opening. How and when will

the bidders be notified of the results?

Contractors will be emailed the results.

2.) The Bid Bond template provided is for Christy Recreation Center. Can a new Bid Bond form be provided?

Please see "Revised" Bid Bond.

3.) On Page 3 of the Bid Proposal Form and on the Pre-Bid Schedule it provides 9 months to complete the work.

The construction schedule has been revised. Note that there is no imposed completion date set for this project. Contractor will prepare a construction schedule with best completion date.

4.) Will this project be utilizing the LBE preference when evaluating bidders?

It will not require LBE preference when evaluating bids. This Project will require Prevailing Wages

5.) Since we cannot view the Garages prior to bid submission, how full should we assume the Garages are?

Contractor should consider that the garages act as a storage unit for the residents, be it their car or general storage. The amount of storage or how much of the capacity of the garage is assigned to storage varies between owners. For the purposes of the bid, assume the garages are completely full.

6.) It was mentioned that the GC will be responsible for the rental of the PODS required for this project.

How much additional rental time should be assumed for these units for bidding purposes?

Rental time is to be determined based on the contractor's proposed construction schedule. Contractor is responsible for storage rental through duration of construction.

7.) Since the specifications say to provide the same size POD that is associated with the Garage to be demolished, please confirm the PODS will be hauled offsite to a protected location for Storage.

Per Item 9000-0028 storage pods are to remain on site for residential access. Contractor may coordinate offsite location with the homeowner.

8.) Is there a Geotech Report for this project? If so, we would like to request that it be circulated.

A geotechnical data memorandum has been prepared for this project and will be distributed to the bidders.

9.) Please advise if there will be laydown area provided onsite.

The gravel lot adjacent to 6152 Nassau Road is available as a lay down area for the duration of the project.

10.) Please confirm that a Field Office, Temporary Telephone and Fax Machine are not required.

No. Field Office, Temporary Telephone and Fax Machine are not required.

11.) There are 4 Large Allowances shown on the Summary of Items Drawing 4 of 27. Please advise if these will be required to be carried under the Base Bid.

The dollar amounts for the four "DOLLAR" items will carry straight to the base bid. The quantities will match Plan Sheet 4 of 27, and the unit cost is fixed at \$1.00 per unit.

12.) Please confirm that the PGW and Comcast relocations will take place prior to the Major construction items such as SOE, Wall Removal & Proposed Concrete Wall.

PGW has indicated they plan to relocate the 3" gas prior to construction. Comcast has indicated they will await notification by the contractor and will relocate overhead lines on a case-by-case basis, as needed.

Jefferson Street & Nassau Road RFP
Questions + Answers

13.) Please confirm that all of the residential driveways will be accessible for this project.
All driveways on Nassau Road are accessible for this project. Contractor will coordinate with the City, owners, and residents when access is needed.

14.) Will the City be getting the permits for this project? Building? Demolition?
As indicated in the project specifications, all required permits, including zoning permits and building permits related to demolition, alternate walls, removal and reconstruction of existing timber decks and stairs, temporary egress stairways, removal of garages, locating storage pods, and the installation and removal of storage pods, are to be obtained and paid by the contractor.

15.) If the contractor is responsible for this, will each structure require its own permit?
Contractor to determine if L&I will require individual permits for each structure.

16.) Is there an Asbestos certification or report for the structures to be demolished?
There is no asbestos certification for the structures to be demolished, and there was no asbestos testing performed. Refer to Selective Demolition specification. The contractor is to address worker health and safety and potential risks of exposure to site-specific hazards.

17.) For Bidding purposes please confirm that Excess generated soils can be classified as PA CLEAN FILL.
A Phase I Environmental Assessment was prepared for the project. No history of hazardous or contaminated soils was reported, but no soil sampling was conducted. Any excess generated soils would require sampling by the contractor to be classified as Clean Fill.

18.) Please confirm that the owner will be providing third party quality control and testing as required.
Yes. City will provide quality control and testing through a CM/CI contract.

19.) Addendum #1 did not confirm if LBE will be applicable to this project, please confirm.

Response to question #4 added above.

20.) Addendum #1 stated a Geotechnical would be provided, please provide.

Geotech memo provided.

21.) Addendum #1, question #10, was not answered. Please confirm that those items, if required, will not be the responsibility of the Contractor.

Response to question #10 added above.

22.) Addendum #1, question #16, states that material testing was not performed. It is our understanding that an AIR report will be required prior to the work start. Please confirm that testing is not required. If additional testing is required by the City or Permitting, please confirm that this cost will be paid by PHDC.

No air quality testing is required by the City.

23.) Addendum #1 did not answer question #18. Please advise if PHDC, or the Contractor are responsible for 3rd party testing/inspections.

Response to question #18 added above.

24.) We are requesting scope clarification for maintenance of Pedestrian traffic:

Jefferson Street & Nassau Road RFP
Questions + Answers

a. Will the Contractor be required to make accommodations for pedestrian traffic for day-to-day use, or just for homeowners' egress during an emergency?

Yes, make accommodations for pedestrian access for day-to-day use.

b. Will the contractor be required to provide egress for Emergency responders via the alley? If so, please advise what access is needed.

Yes. EMS can use the same pedestrian access. Provide the same minimum width access as the pedestrian access.

c. If a unit has a 2nd floor deck with stair access to the alley, can their emergency egress to the alley be accomplished through their first floor?

No. All access points are to be maintained at all times. Only exception is the 1 hour period to place the temporary egress.

25.) It appears that the Contractor may be able to perform this work without removing some of the existing metal staircase egress structures.

a. If the Contractor is able to work around these structures, will the Contractor be required to replace them at the completion of the work?

Yes. All existing stairs and decks are to be replaced by the end of the project.

b. If the Contractor is required to replace, please provide a standard detail showing how they are to be constructed.

No additional details will be provided. Contractor to review existing configuration and provide design / details for similar size and footprint. Contractor to follow all permit application submissions to the City of Philadelphia.

26.) Will the City confirm that homeowners will be required to allow 3rd-Party inspection of the inside of their structures prior to construction starting as well as at completion.

City will work with the contractor to coordinate with homeowners to allow Contractor access for before and after inspections of existing home, per the specifications.

27.) We are in need of clarification work for the existing decks.

a. Is it confirmed that the existing decks meet current code requirements?

No. L&I will allow the new decks to match the configuration and footprint of the existing decks. Deck design to be in accordance with current code requirements. Contractor to follow all permit application submissions to the City of Philadelphia.

b. If the decks are not built to code and or if the existing structure is unable to support the proposed decks, please advise how the contractor is to develop the cost to replace the decks?

Refer to Answer 27a. Contractor may elect to develop cost based on existing deck size and footprint.

c. If the garages are being built under a separate follow up contract, can the deck restoration be handled the same way?

No. All new decks and metal stairs must be provided by the end of the project.

No. All new decks and metal stairs must be provided by the end of the project.

Jefferson Street & Nassau Road RFP
Questions + Answers

28.) The existing alley does not appear to be a Public ROW

a., Please advise if a temporary construction easement has been established by the City?

No construction easement is required. Property owners have agreed to allow entry, as needed, by the City's contractor to build the project.

b. If a temporary construction easement has not been established, will the City be providing the limits and template for this agreement as well as obtaining the required signatures?

Authorization to Enter letters will be provided after selection of the contractor.

SECTION 00430
BID BOND

PROJECT NAME: Reconstruction of Alley Retaining Wall Between Jefferson Street & Nassau Road, From 61st to 63rd Sts.

FOR THE PHILADELPHIA HOUSING DEVELOPMENT CORPORATION, KNOW ALL MEN BY THESE PRESENT, that we

as Principal (hereinafter called the "Principal Obligor"), and _____

Surety, are jointly and severally held firmly bound unto the Philadelphia Housing Development Corporation, in the sum of:

TEN PERCENT (10%) OF THE GROSS AMOUNT OF THE BID

lawful money in the United States of America, to be paid to the said Philadelphia Housing Development Corporation, its successors and assigns, to which payment well and truly to be made, we do bind ourselves and each of us, our and each of our successors and assigns, jointly and severally, firmly by these present.

Sealed with our seals and dated the _____ day of _____, A.D. 2024

WHEREAS, the above bonded Principal Obligor, submitted a bid pursuant to the above referenced Bid Number to perform certain work for the Philadelphia Housing Development Corporation.

NOW, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Philadelphia Housing Development Corporation shall accept the bid of the Principal Obligor and the Principal Obligor shall enter into a contract with the Philadelphia Housing Development Corporation in accordance with the terms of such bid, and furnish such bond or bonds as are specified in the bid documents with good and sufficient surety, for the faithful performance of the contract and for the prompt payment of labor and material furnished in the prosecution thereof; or in the event of the failure or refusal of the Principal Obligor to enter such contract and give such bond or bonds, if the Principal Obligor shall pay to the Philadelphia Housing Development Corporation the difference between the amount specified in said bid and such larger amount for which the Philadelphia Housing Development Corporation may legally contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

And we do for ourselves and each of us, our and each of our heirs, executors, administrators, successors and assigns, hereby authorize and empower the Solicitor of Philadelphia Housing Development Corporation or any other attorney of any court of record in Pennsylvania or elsewhere by him or her deputized for the purpose, upon the filing of this instrument or a copy thereof, duly attested as correct by the Solicitor of the Philadelphia Housing Development Corporation, to appear for us or either of us, our or either of our heirs, executors, administrators, successors or assigns, and

confess a judgment against us or either of us, our or either of our heirs, executors, administrators, successors or assigns, in favor of the Philadelphia Housing Development Corporation for the sum named in this bond, without defalcation, with costs of suit, release of errors, and with five percent added for collection fees; hereby waiving the benefit of all exemption laws and the holding of inquisition of any real estate that may be levied upon by virtue of such judgment, voluntarily condemning such real estate and authorizing the entry of such condemnation upon any writ of fieri facias and agreeing that said real estate may be sold under the same; and further waiving all errors, defects and imperfections whatsoever in the entering of the said judgment or any process thereon, and hereby agreeing that no writ of error or objection of motion or rule to open or strike off judgment or to stay execution or appeal, shall be made or taken thereto.

And for the doing of these acts, this instrument or a copy thereof attested as aforesaid shall be full warrant and authority.

CORPORATE SEAL:

PRINCIPAL OBLIGOR:

_____(SEAL)
President or Vice President

_____(SEAL)
Secretary or Treasurer
(or either of their assistants)

_____(SEAL)
Secretary or Treasurer

SURETY:

_____(SEAL)
Attorney-In-Fact

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- Note: (1) All bidders must utilize this Bid Bond Form when submitting a bid to the Philadelphia Housing Development Corporation.
- (2) If Principal Obligor is an individual or partnership, Bid Bond should be signed by owner or authorized general partner. Please identify on the Bid Bond the type of business (e.g. individual proprietorship or partnership) and title of party executing the Bid Bond.
- (3) Bid Bond must be executed by a surety company duly authorized and licensed to act as surety by the Pennsylvania Insurance Commissioner pursuant to the laws of the Commonwealth of Pennsylvania.

END OF SECTION

GEOTECHNICAL DATA MEMORANDUM

**To: Chris Renfro
City of Philadelphia**

**From: Russ Preuss, P.E.
Gannett Fleming, Inc.**

**Re: NPI/WO 2020530-10 NIIP Retaining Wall Engineering Designs
Wall 7-038, Jefferson Street – Nassau Road Retaining Wall
Philadelphia, Pennsylvania**

Date: February 6, 2023

1.0 INTRODUCTION

This memorandum presents the results of the hand augers and Dynamic Cone Penetrometer (DCP) tests performed along retaining wall 7-038 located in the alleyway between residential house nos. 6101 – 6231 Jefferson Street, Philadelphia, Pennsylvania. Comments from Navarro & Wright’s review dated January 20, 2023 have been incorporated into this memorandum. DCP testing was performed to collect subsurface data to assist in the design of the retaining wall replacement. This submission is in accordance with Contract No. 2020530, Work Order No. 10 dated September 1, 2022. A Site Location Map for the project is included as Figure 1. A Project Features Map is included in Figure 2.

2.0 EXISTING CONDITIONS

The existing retaining wall is approximately 720 ft long, extending between 6101 – 6231 Jefferson Street. The existing stone gravity retaining wall ranges from 0’-7” to 7’-2”, with the highest point at the approximate midpoint of the wall and lowest point at the far east end of the wall. According to a City of Philadelphia Department of Streets retaining wall inspection done by SJH Engineering, P.C. dated April 4th, 2022 the wall is considered imminently dangerous with sections of the wall already collapsed, has affected adjacent structures, and can only be worked on by hand. Sections of the wall have collapsed and are affecting adjacent properties with debris and structural damage. Several structures above the retaining wall are affected structurally by the collapse of the retaining wall. Vegetation has overgrown in sections where the wall has collapsed and soil has spilled out. Overhead utility poles have been affected by the collapse of sections of the wall. As-built plans for the wall is not available and date of original wall construction is unknown. A summary of wall conditions and the aforementioned retaining wall inspection form are included in Attachment 1. The full SJH retaining wall inspection report

is included in Attachment 2. Historic aerial photography and topography is located in Figures 3 and 4.

3.0 GEOLOGY

Based on the *Physiographic Provinces of Pennsylvania, Map 13* (Sevon, 2000), the project is in the Lowland and Intermediate Upland Section of the Atlantic Coastal Plain Physiographic Province. The topography is characterized by flat upper terrace surfaces cut by narrow, steep-sided valleys of very low relief. The drainage patterns are dendritic.

Geologic mapping from the Pennsylvania Department of Conservation and Natural Resources (DCNR) web-mapping application (<http://www.gis.dcnr.state.pa.us/maps>) indicates that the site is underlain by the Lower Paleozoic Age Granitic Gneiss and Granite Formation. The Granitic Gneiss and Granite Formation (Xgr) is described in *Engineering Characteristics of the Rocks of Pennsylvania* (Geyer and Wilshusen, 1982) light buff to light pink; fine to medium grained; with most crystals being approximately 1mm in diameter. The essential minerals of the rock are quartz, microcline, and hornblende. The banding is poorly developed while the bands are massive. Jointing is very closely spaced, open and steeply dipping. The formation is highly resistant to weathering but slightly weathered at a shallow depth. The cut slope stability of the is considered to be good. The foundation stability of the formation is considered to be good but should be excavated to sound material. A soils map is included in Figure 5. A bedrock geology map is included in Figure 6.

4.0 GROUNDWATER INFORMATION

Groundwater was not encountered in any of the hand augers. Fluctuations in the water table should be expected with variations in precipitation, surface runoff, pumping, and evaporation occurring throughout the year.

Water well information was obtained from the DCNR Pennsylvania Groundwater Information System (PaGWIS) (<https://www.dcnr.pa.gov/Conservation/Water/Groundwater/PAGroundwaterInformationSystem/Pages/default.aspx>). One water well was identified within 2,000 feet of the project site. The well depth was reported as 27 feet below ground surface. Depth to bedrock was 20 feet below ground surface. The water level was reported as 26 feet below ground surface. The Water Well Information Report is included in Attachment 3.

5.0 DYNAMIC CONE PENETRATION TESTING

Gannett Fleming personnel visited the site on November 16th, 2022 to perform DCP testing. The DCP was advanced through the underlying soils by seating the cone (1½-inch diameter with 45° conical point) 2-inches into the undisturbed bottom of the hole. The DCP was then further driven at 1¾-inch intervals using a 15-pound ring weight falling from a height of 20 inches. The blow counts for each 1¾-inch interval were recorded and correlated to ASTM D1586 Standard

“N” Resistance (blows per foot) values. In general, two DCP tests were performed at each hand auger location. Each DCP hole was advanced to the next test depth using a hand auger. DCP testing was performed until the desired depth of 4 ft or hand auger refusal was achieved. A summary of results from the DCP tests is shown in Table 1. GF-4 could not be completed as Gannett Fleming personnel could not access the necessary property to perform the test.

Table 1 – DCP Summary

DCP No.	First DCP Test Depth (ft)	Visual Soil Description	Correlated SPT N-Value1	Second DCP Test Depth (ft)	Soil Description	Correlated SPT N-Value1
GF-1	1	Silty sand, sm	4	4	Sandy silt with clay, ml	2
GF-2	1	Clayey silt with sand, ml	3	4	Silty clay with sand, cl	6
GF-3	1	Silty sand with gravel, sm	3	4	Silty sand, sm	10
GF-5	1	Clayey silt with sand, ml	1	4	Sandy clay with silt, cl	10
GF-6	1	Silty sand, sm	3	3.5	Silty sand, sm	6
GF-7	1	Silty sand, sm	4	4	Silty clay with fine sand, cl	13

Correlated N-Values are based on penetration relationship curves provided in ASTM Special Publication No. 399 – Dynamic Cone for Shallow In-Situ Penetration Testing, DR-200. The penetration relationship curves varied based on soil deposition and fill placement. The 90% Compaction (Curve C) was used for fill soils.

In general, the soils encountered while advancing the DCP consisted of loose to medium dense silty sand fill containing variable amounts of rock fragments, gravel, and oversized rock fragments (> 3”). Typed DCP test logs are included in Attachment 4 and select field recon photos are included in Attachment 5.

The DCP locations were determined in the field by Gannett Fleming personnel by taking reference measurements from existing site features. Upon completion, each DCP hole was backfilled with soil cuttings. The DCP locations were surveyed by Gannett Fleming personnel. DCP location plan is included as Attachment 6.

6.0 GEOTECHNICAL RECOMMENDATIONS

It is assumed that a cast-in-place concrete cantilever retaining wall on spread footings is the

preferred alternate.

The soil parameters to be used for the design of the new retaining walls using PennDOT's ABLRFD software or similar are summarized in Table 2 below.

Geotechnical parameters for the equivalent soil mass, including effective friction angle, unit weights, and Young's modulus, were estimated using empirical correlations. The friction angle and unit weights were estimated from Figure 5.5.3.1.1-1 of PennDOT Publication 293 (2018) and NAVFAC's Design Manual 7.1, Soil Mechanics, Figure 2.7.3.3.3. Young's modulus was estimated using Table C10.4.6.3-1 from AASHTO. Foundation parameters were based on values in the PennDOT DM-4, Table 10.5.5.2.2-1 and AASHTO LRFD Bridge Design Specifications, 8th Edition, Table C10.4.6.3-1.

Table 2 – Recommended Soil Parameters

Substructure Unit	Retaining Wall
Type of Foundation	Spread Footing
Applicable DCP Borings	GF-1, GF-2, GF-3, GF-5, GF-6, and GF-7
Bearing Stratum	Silty Clayey Soils (ml, cl)
Footing Embedment Depth, D_f (ft)	3.0 (min)
Anticipated Groundwater Elevation (ft)	N/A
Footing Near Slope (Yes/No)	No
Number of Soil Layers below BFE	1
Soil Layer 1 - Fill	
Layer 1 N_{60} (avg.) (blows per foot)	9
Layer 1 Moist/Saturated Unit Weight, γ_m/γ_s (pcf)	115/120
Effective Friction Angle, ϕ	32°
Elastic Young's Modulus (ksf)	300
Cohesion (ksf)	0
Foundation Parameters	
Bearing Capacity Resistance Factor, ϕ	0.45
Sliding Resistance Factor, ϕ	0.80
Poisson's Ratio, ν	0.3
Allowable Settlement (in)	1.0

Provide a minimum of 3 feet embedment from finished ground to bottom of the retaining wall. The indicated embedment depth will satisfy the estimated frost protection depth.

Immediately adjacent to retaining walls, we recommend providing a drainage envelope, consisting of a 12-inch wide bed of crushed stone meeting the requirements of AASHTO No. 57 aggregate wrapped in non-woven geotextile (PennDOT Class 4, Type A). In lieu of the crushed stone, a drainage geocomposite consisting of Miradrain G100N drainage panels or equivalent can be used behind the walls to collect water. The stone or drainage panels should be connected

to an underdrain at the base of the retaining wall and drained by gravity. We recommend that weepholes be provided in retaining walls to permit drainage of water which may accumulate behind the wall. Weepholes should be a minimum of three inches in diameter and located on ten-foot centers.

Backfill behind the walls should consist of granular fill containing less than 20 percent by weight finer than the No. 200 sieve. Backfill should be placed in loose lifts not exceeding eight inches in thickness and should be compacted to at least 95 percent of maximum dry density per ASTM D1557, Modified Proctor. When backfilling walls, do not use heavy static or vibratory equipment for compaction within a distance behind the wall equal to half of the total wall height at the level where the compaction is taking place. This will help preclude the development of high lateral earth pressures during the compaction activity. Smaller walk-behind equipment should be used for compaction within this zone.

All excavations should conform to the current OSHA and other applicable local, state, and federal regulations and design standards. It is the Contractor's responsibility to ensure the stability of the excavations and protection and/or repair of adjacent existing structures affected by this work.

Due to the site constraints, it is our understanding that temporary excavation support will be required to facilitate construction of the new retaining walls. The use of a free-draining system using soldier piles and wood lagging should be utilized. The excavation support system should be designed by a specialty contractor and be sealed by a Professional Engineer registered in Commonwealth of Pennsylvania. See Attachment 7 for the PennDOT Temporary Excavation Support and Protection System standard special provision.

7.0 CLOSING

This geotechnical data memorandum has been prepared to assist the design team with the anticipated subsurface conditions for the retaining wall replacement. The memorandum scope is limited to this specific project and the locations described herein. The findings presented in this memorandum represent our current understanding of the site and the proposed project.

REFERENCES

- American Association of State Highway and Transportation Officials, *AASHTO LRFD Bridge Design Specifications*, 8th Edition, September 2017.
- American Society for Testing and Materials (1966), STP399-EB “*Vane Shear and Cone Penetration Resistance Testing of In-Situ Soils*,” ASTM International, West Conshohocken, PA, 1966, DOI: 10.1520/STP399-EB.
- American Society for Testing and Materials (2021), *D1557 “Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))*, ASTM International, West Conshohocken, PA, 2021, DOI: 10.1520/D1557-12R21
- American Society for Testing and Materials (2018), *D1586 “Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils*,” ASTM International, West Conshohocken, PA, 2018, DOI: 10.1520/D1586-18.
- American Society for Testing and Materials (2017), *D2487 “Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)*,” ASTM International, West Conshohocken, PA, 2017, DOI: 10.1520/D2487-17.
- Geyer, A.R., and Wilshusen, J.P. (1982), *Engineering Characteristics of the Rocks of Pennsylvania*, Pennsylvania Geological Survey, 4th Series.
- Pennsylvania Department of Conservation and Natural Resources, *PaGEODE-PA Geological Survey Interactive Map* (<http://www.gis.dcnr.state.pa.us/maps/>), Accessed December 2022.
- Pennsylvania Department of Transportation (2022), Publication 15M, *Design Manual, Part 4, Structures*.
- Pennsylvania Department of Transportation (2020), Publication 293, *Geotechnical Engineering Manual*.
- Sevon, W.D. (2000), *Physiographic Provinces of Pennsylvania (Map 13)*, 4th ed., Bureau of Topographic and Geologic Survey, Department of Conservation and Natural Resources, Commonwealth of Pennsylvania
(http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr_016202.pdf).
- Unified Facilities Criteria, UFC 3-220-10, “*Soil Mechanics (DM7.1)*”, February 2022.

FIGURES

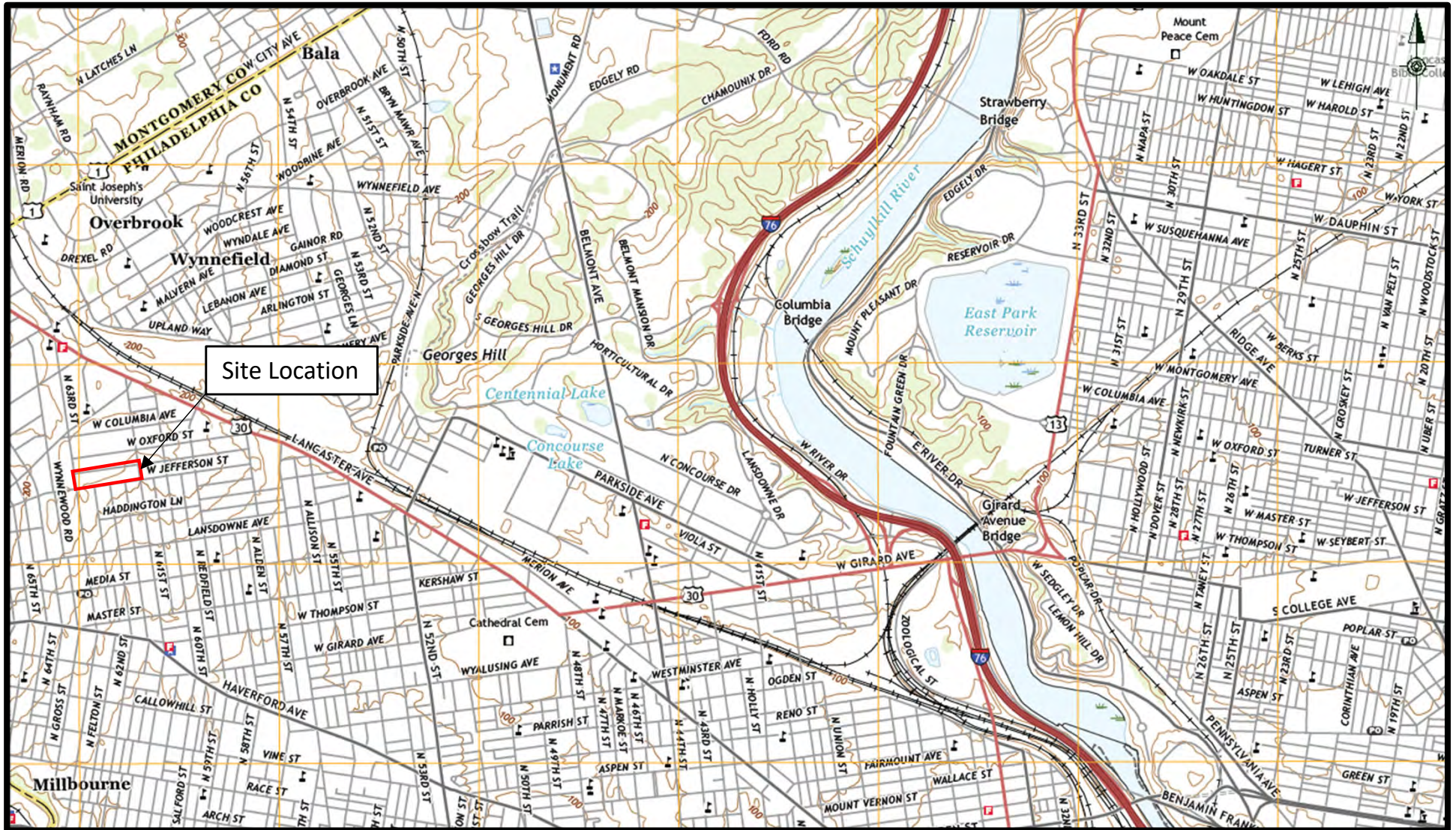


Figure 2. Project Features Map

Approx. 1 mi

Reference: USGS, National Map, USGS US Topo 7.5-minute map for Kutztown, PA 2019
https://ngmdb.usgs.gov/ht-bin/tv_browse.pl?id=a19cb3e84560f8c1ecc7dc85e69281f5

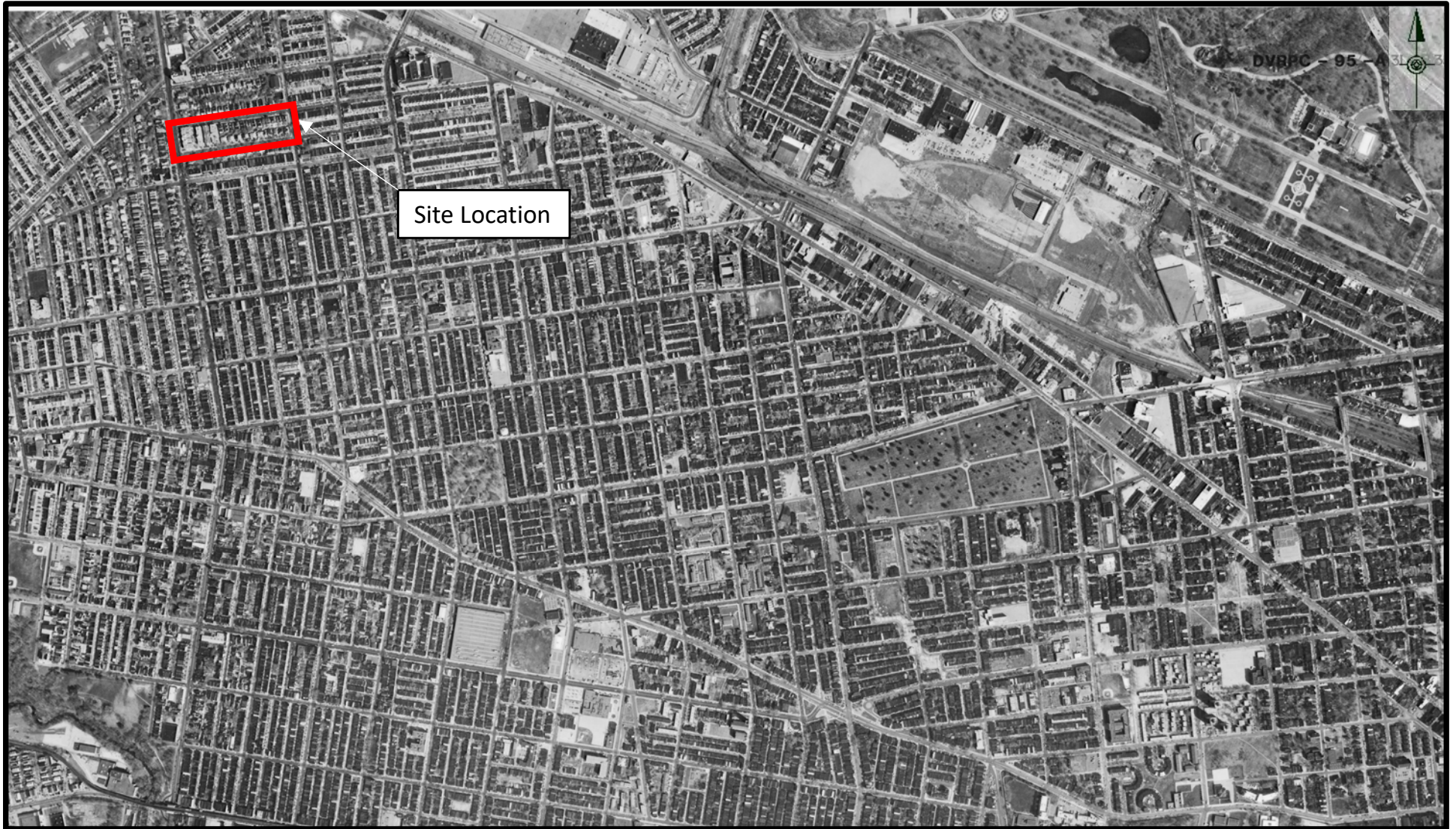


Figure 3a. 1937 Aerial Photo

Approx. 1750 ft

Reference: PASDA Historical Aerial Viewer

<https://datacommons.maps.arcgis.com/apps/View/index.html?appid=10af5f75f9f94f01866359ba398cb6a9>



Figure 3b. 1959 Aerial Photo

Approx. 2000 ft

Reference: PASDA Historical Aerial Viewer

<https://datacommons.maps.arcgis.com/apps/View/index.html?appid=10af5f75f9f94f01866359ba398cb6a9>

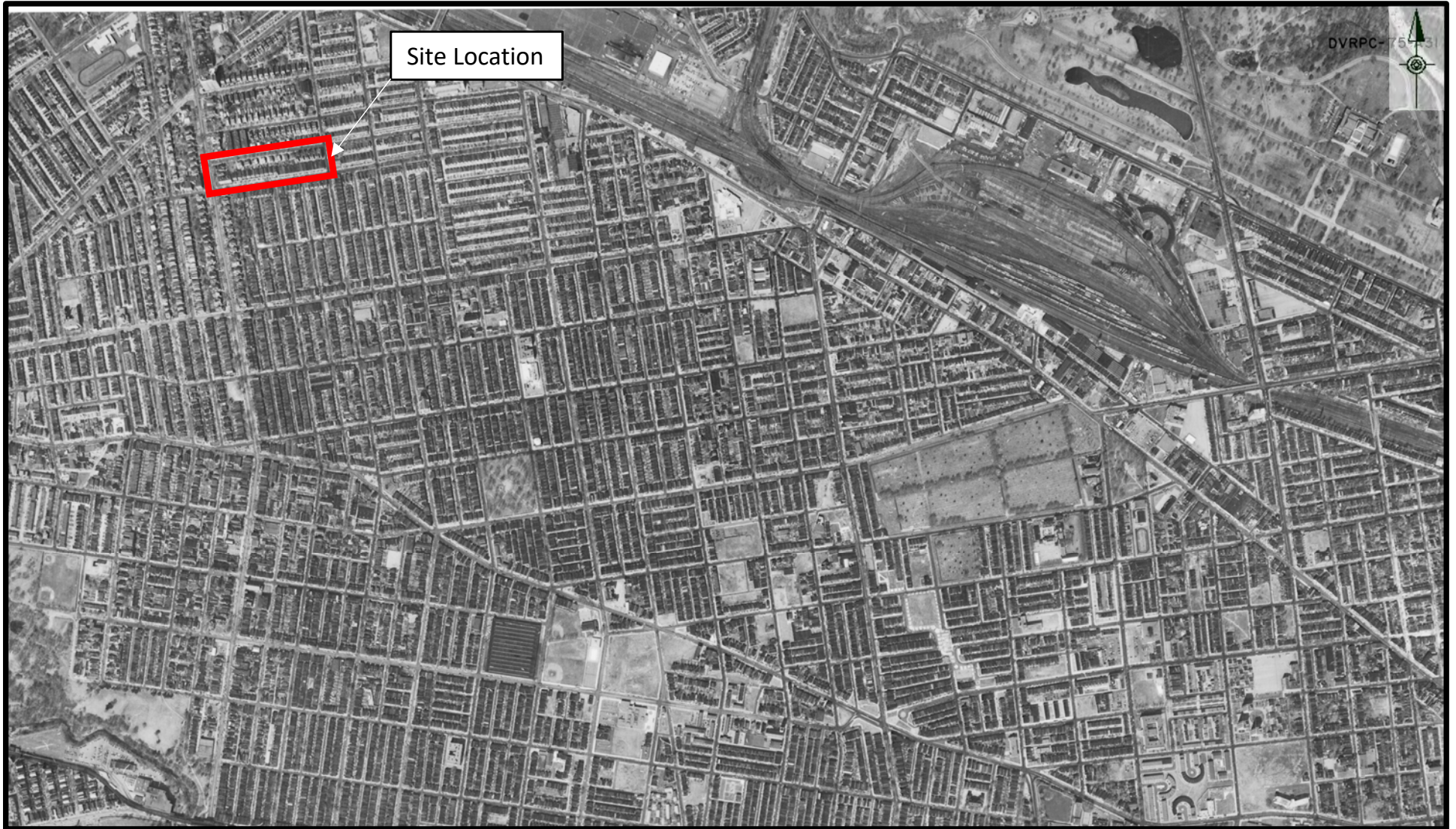


Figure 3c. 1975 Aerial Photo

Approx. 1750 ft

Reference: PASDA Historical Aerial Viewer

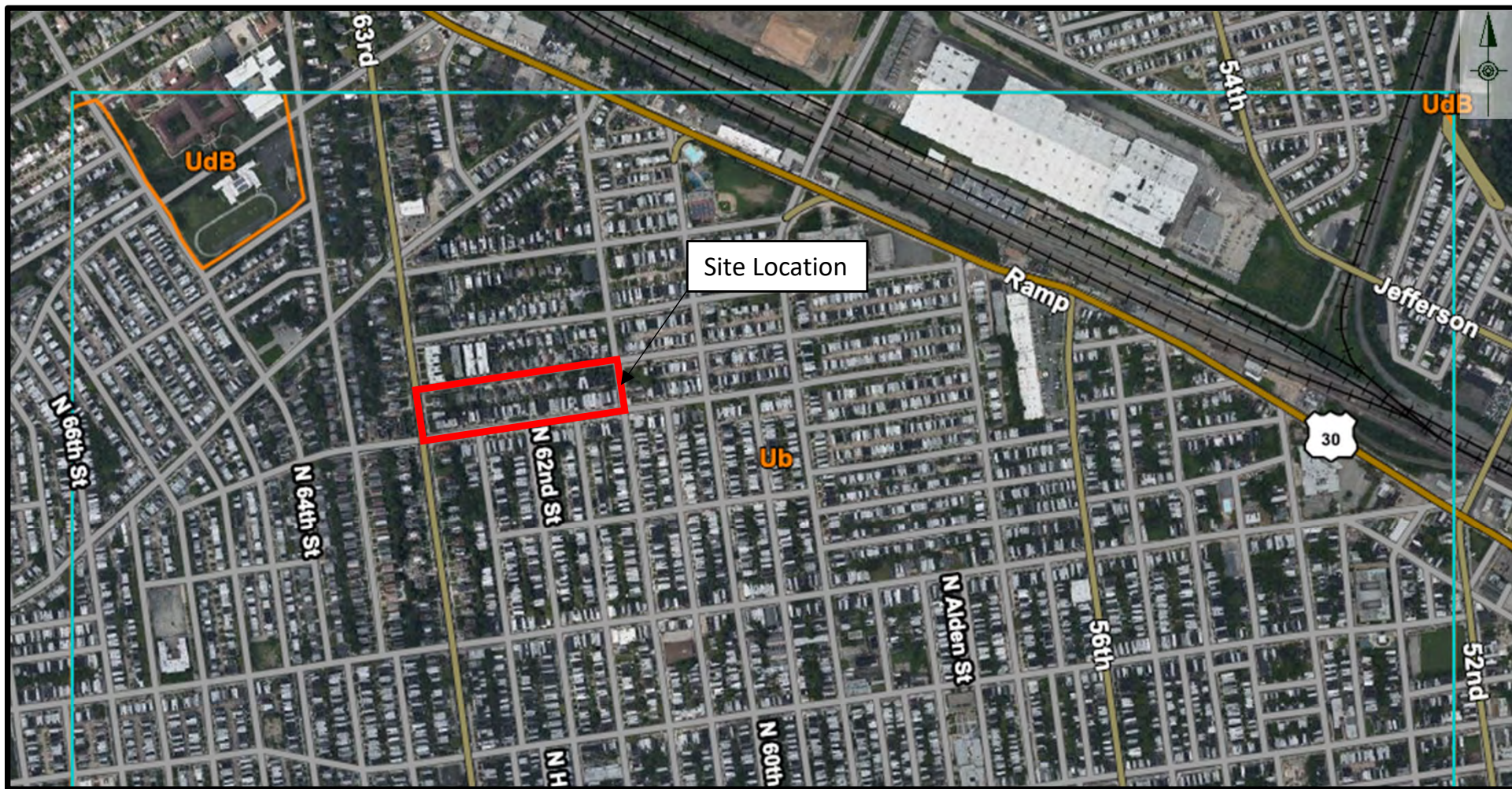
<https://datacommons.maps.arcgis.com/apps/View/index.html?appid=10af5f75f9f94f01866359ba398cb6a9>



Figure 4. Historical Topography Map

Reference: USGS TopoView
<https://ngmdb.usgs.gov/>

Approx. 3000 ft



Legend:

Ub – Urban land

UdB – Urban land-Chester Complex, 0 to 8 percent slopes

Approx. 1000 ft

Figure 5. Soils Map

Reference: United States Department of Agriculture, *Natural Resources Conservation Service, Web Soil Survey*
<http://websoilsurvey.nrcs.usda.gov/>

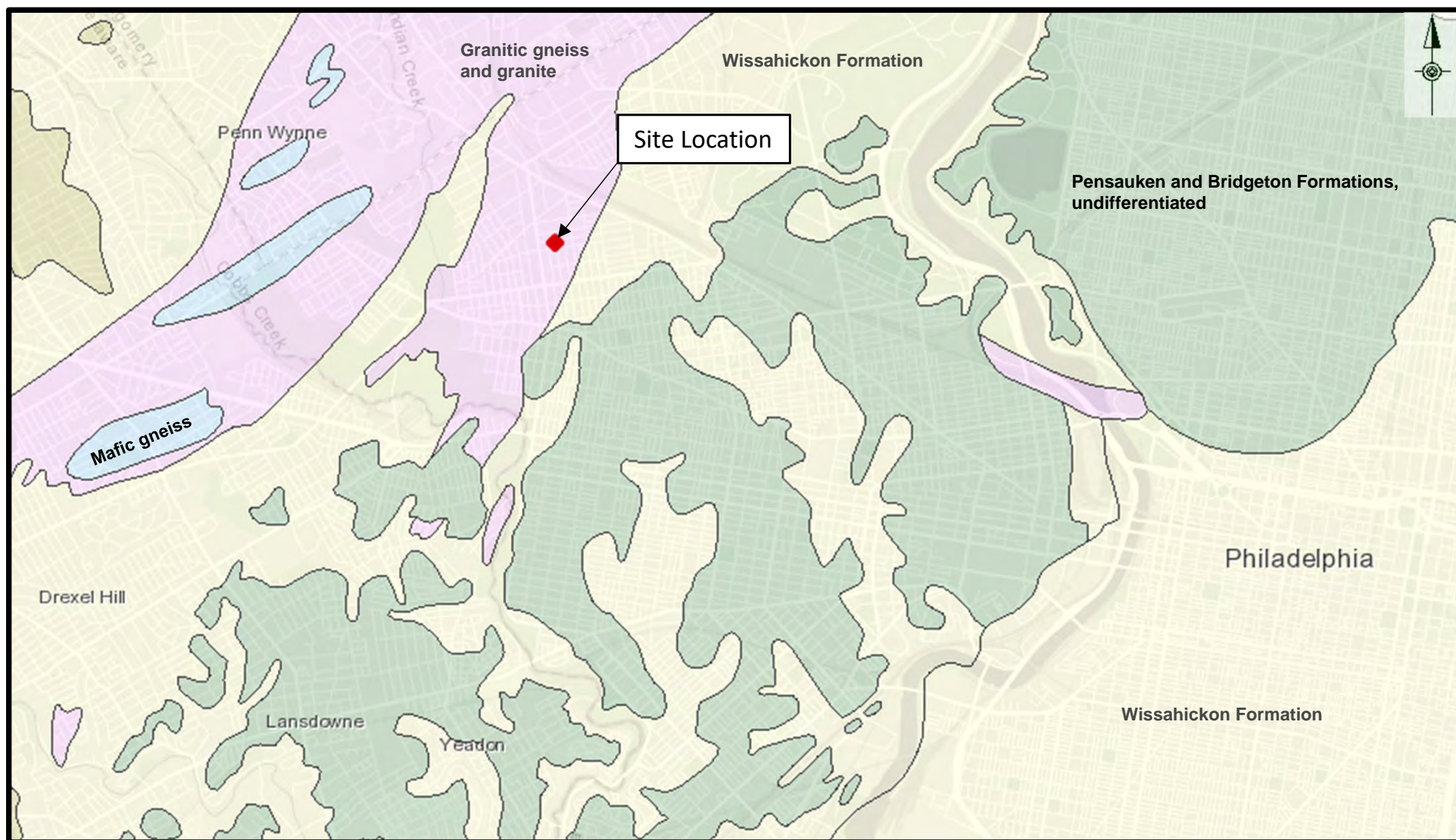


Figure 6. Bedrock Geology Map

Reference: Pennsylvania Department of Conservation and Natural Resources (DCNR)
<http://www.gis.dcnr.state.pa.us/geology/index.html/>

Approx. 1 mi

ATTACHMENT 1
Retaining Wall Inspection Summary



Retaining Wall Inspection Summary

Wall Segment Beginning (ft)	Wall Segment End (ft)	Wall Height at Beginning of Segment (ft)	Wall Height at End of Segment (ft)	Wall Conditions	Conditions Above the Wall	Property Adjacent to Wall
0	30	2'0"	2'11"	collapsing stone masonry wall	Yard/fence	6152 Jefferson St
30	60	2'11"	3'1"	collapsing stone masonry wall	Yard/fence	6150 Jefferson St
60	90	3'1"	3'1"	prior work done, new concrete wall	Yard/fence	6150-6148 Jefferson St
90	120	3'1"	3'8"	missing stones/mortar in stone masonry wall	Yard/fence, shed	6148-6146 Jefferson St
120	150	3'8"	4'9"	missing/deteriorated mortar, stone masonry wall	Yard/fence, shed	6146-6144 Jefferson St
150	180	4'9"	5'5"	missing/deteriorated mortar, stone masonry wall	Yard/fence	6144 Jefferson St
180	210	5'5"	6'0"	missing/deteriorated mortar, stone masonry wall	Yard/fence, small garage	6142 Jefferson St
210	240	6'0"	6'3"	missing/deteriorated mortar, stone masonry wall	Yard/brick wall, small garage	6140 Jefferson St
240	270	6'3"	6'4"	missing/deteriorated mortar, stone masonry wall	Yard/brick wall, shed	6138 Jefferson St
270	300	6'4"	6'4"	collapsed wall, missing mortar, stone masonry wall	Yard/fence	6138-6136 Jefferson St
300	330	6'4"	6'4"	missing/deteriorated mortar, stone masonry wall	Yard/fence, small garage	6136-6134 Jefferson St
330	360	6'4"	6'4"	collapsed wall, broken utility poles, low hanging wires	Yard, collapsed fence, shed	6134-6132 Jefferson St
360	390	6'4"	6'6"	collapsed stone masonry wall	Yard, collapsed fence, shed	6132-6130 Jefferson St
390	420	6'6"	7'0"	collapsed stone masonry wall, broken utility poles, low hanging wires	Yard, collapsed fence, garage	6130-6128 Jefferson St
420	450	7'0"	7'0"	collapsed stone masonry wall, broken utility poles, low hanging wires	Yard, collapsed fence, garage	6128 Jefferson St
450	480	7'0"	7'2"	collapsed stone masonry wall, broken utility poles, low hanging wires	yard, fence, shed	6126 Jefferson St
480	510	7'2"	3'2"	stone masonry wall wall supported by utility pole, rotated/leaning out 15"	yard, fence, shed	6124 Jefferson St
510	540	3'2"	3'1"	collapsed stone masonry wall	yard, fence, shed	6124-6122 Jefferson St
540	570	3'1"	3'0"	collapsed stone masonry wall	yard, fence	6122-6118-16 Jefferson St
570	600	3'0"	2'4"	collapsed stone masonry wall	Yard, fence	6118-16-6114-12 Jefferson St
600	630	2'4"	2'1"	collapsed stone masonry wall	concrete walkway, fence	6114-12 Jefferson St
630	660	2'1"	1'11"	Stone masonry wall	concrete walkway, fence	6114-12-6110-08 Jefferson St
660	690	1'11"	0'7"	Stone masonry wall	concrete walkway, fence	6110-08-6106-04 Jefferson St
690	720	0'7"	0'0"	Stone masonry wall	concrete walkway, fence	6106-04 Jefferson St

*Note: This table Summarizes SJH Retaining Wall Inspection Report dated 4/20/2022 included as Attachment 2

ATTACHMENT 2
SJH Engineering, P.C. Retaining Wall Inspection Report



Retaining Wall Inspection Form

NPI Program V2.0.1021



WALL ID (ALLEY): 7-038	LEAD INSPECTOR NAME: Syed Mujtaba Ahmed	OTHER FIELD STAFF: Shiva Anumula	INSPECTION DATE: 04/20/2022
---------------------------	--------------------------------------------	-------------------------------------	--------------------------------

LOCATION: **6101-6231 Jefferson St**

(DESCRIBE)

UPPER-SIDE USE (CHECK ONE):	DRIVEWAY <input type="checkbox"/>	ALLEY <input type="checkbox"/>	YARD <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>	<input type="text"/>
LOWER-SIDE USE (CHECK ONE):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

PRIMARY MATERIAL (CHECK ONE):

CONCRETE <input type="checkbox"/>	STONE <input checked="" type="checkbox"/>	MASONRY <input type="checkbox"/>	STEEL <input type="checkbox"/>	OTHER <input type="checkbox"/>	<input type="text"/>
-----------------------------------	-------------------------------------------	----------------------------------	--------------------------------	--------------------------------	----------------------

WALL TYPE (CHECK ONE):

CANTILEVER <input type="checkbox"/>	GRAVITY <input checked="" type="checkbox"/>	MODULAR <input type="checkbox"/>	PILING <input type="checkbox"/>	ANCHORED <input type="checkbox"/>
-------------------------------------	---------------------------------------------	----------------------------------	---------------------------------	-----------------------------------

IMMINENTLY DANGEROUS:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	ADJACENT STRUCTURES AFFECTED:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
-----------------------	-----------------------------------------	-----------------------------	-------------------------------	-----------------------------------------	-----------------------------

CITY-OWNED LIGHTING:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	ONLY HAND WORK POSSIBLE:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
----------------------	-----------------------------------------	-----------------------------	--------------------------	-----------------------------------------	-----------------------------

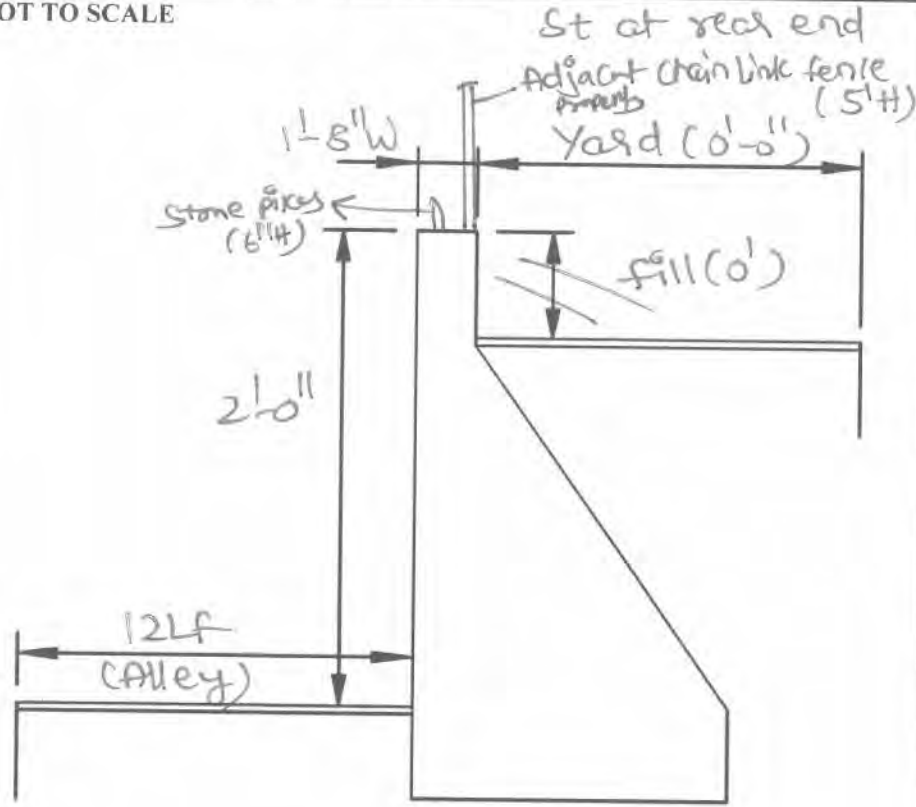
OVERALL WALL STRUCTURE INSPECTION RATING (CHECK ONE):

COLL. <input checked="" type="checkbox"/>	BLOW. <input type="checkbox"/>	LEAN <input type="checkbox"/>	BULGE <input type="checkbox"/>	DETER. <input type="checkbox"/>	FAIR <input type="checkbox"/>	GOOD <input type="checkbox"/>
-------------------------------------------	--------------------------------	-------------------------------	--------------------------------	---------------------------------	-------------------------------	-------------------------------

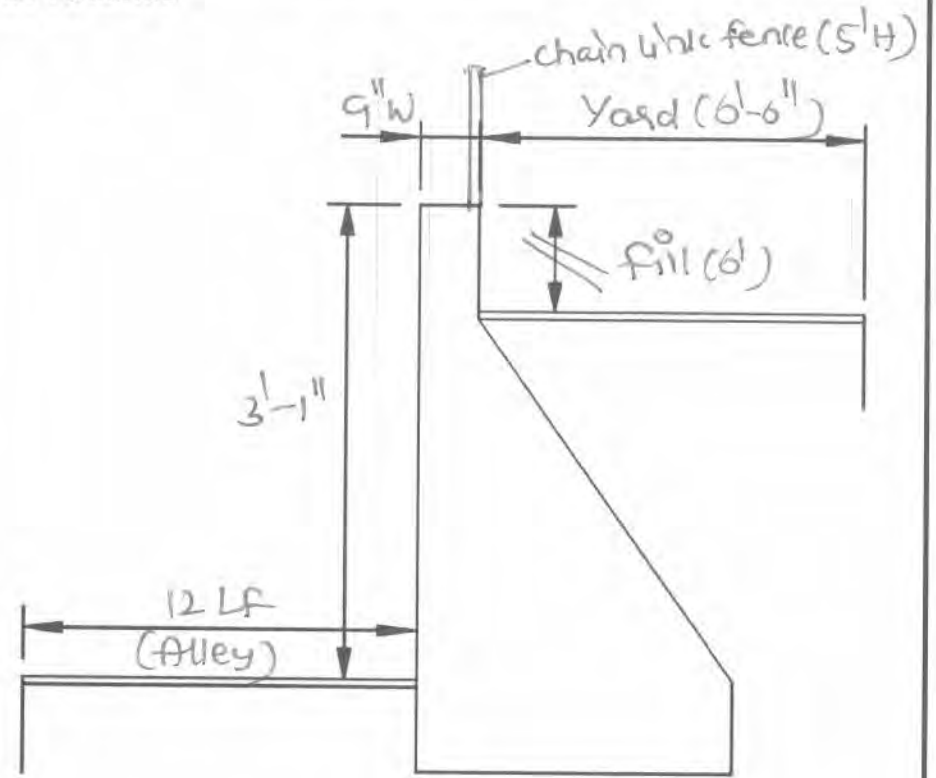
- CHECKLIST & PROTOCOL (FOLLOW IN ENTIRETY):**
1. Fill out the Wall ID, Staff Names, and Inspection Date, as well as the Retaining Wall Location & Assessment/Classification Information.
 2. Photograph the retaining wall structure by taking **at least one shot for every affected parcel**, capturing any significant failures/features.
 3. Label all dimensions and distances on the "Wall Cross Section Detail", making as many sheets necessary to accurately portray the wall(s).
 4. Draw the wall and its Failures/Features* on the "Wall Elevation Field Sketch", making as many sheets necessary to capture everything.
 5. Ensure the property lines for all respective parcels along a given Alley Block are demarcated with the street address (number and name) written, on all sheets of both the *Wall Cross Section Detail & Elevation Field Sketch* forms; for each and every parcel: if there are already any assigned L&I Code Violation Records, then notate the specific Case Numbers, otherwise make an engineering judgment decision to assign an Inspection Rating (i.e.: Collapse, Blowout, Lean, Bulge, Deterioration, Fair, Good).

Stone Wall along 6152 thru 6150 Jefferson. Concrete wall only along Block 6148 Jefferson St.

NOT TO SCALE



NOT TO SCALE



Notes:

→ Measured at the corner of Block 6152 Jefferson St.

Notes:

→ Measured at the corner of Block 6148 Jefferson St.

Location: 6101-6231 Jefferson St.

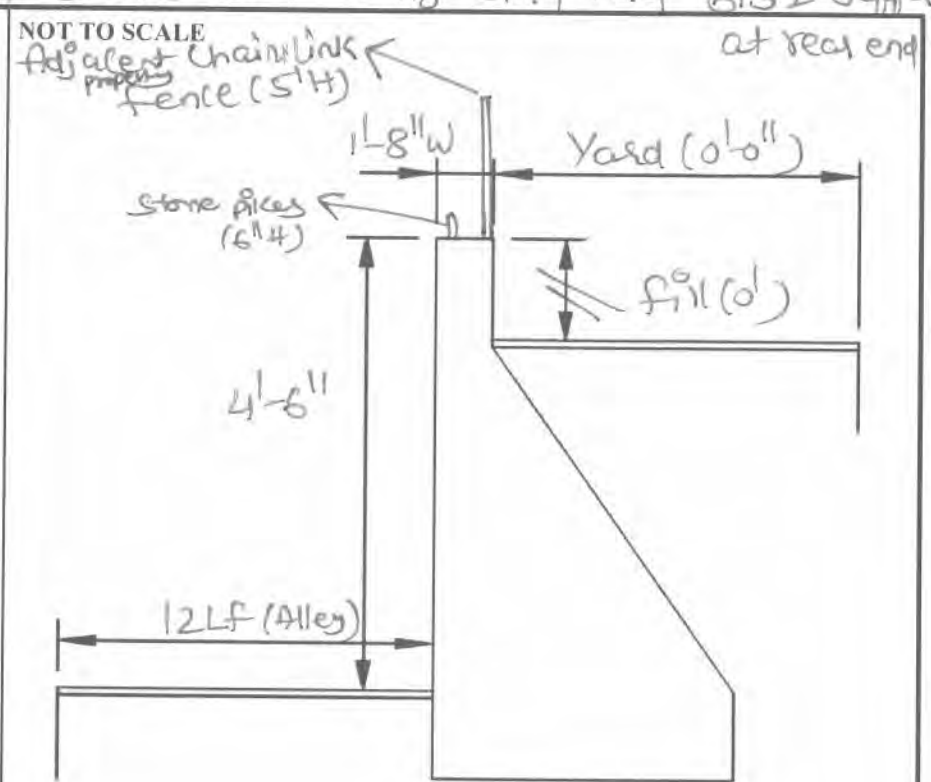
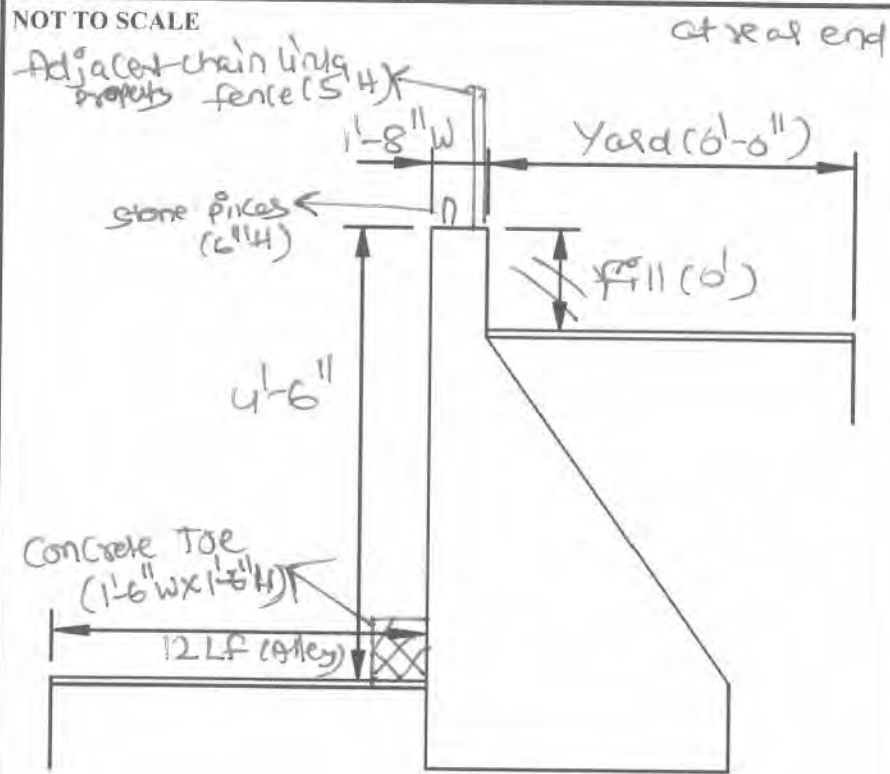
Inspector Initials: SMA

Wall Cross Section Detail 1 **of** 3

Inspection Date: 04/20/2022

Stone wall along 6146 Jefferson St

Stone wall along 6144 thru 6132 Jefferson St



Notes:

Notes:

→ Measured at the corner of block 6146 Jefferson St.

→ Measured at the corner of block 6144 Jefferson St.

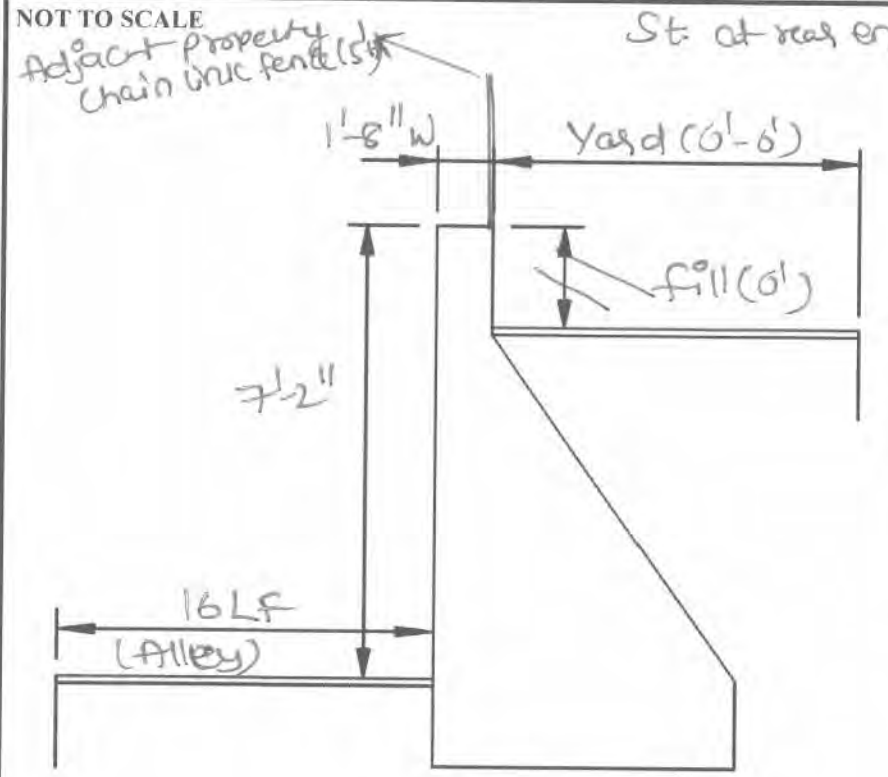
Location: 6101 - 6231 Jefferson St

Inspector Initials: SMA

Wall Cross Section Detail 2 of 3

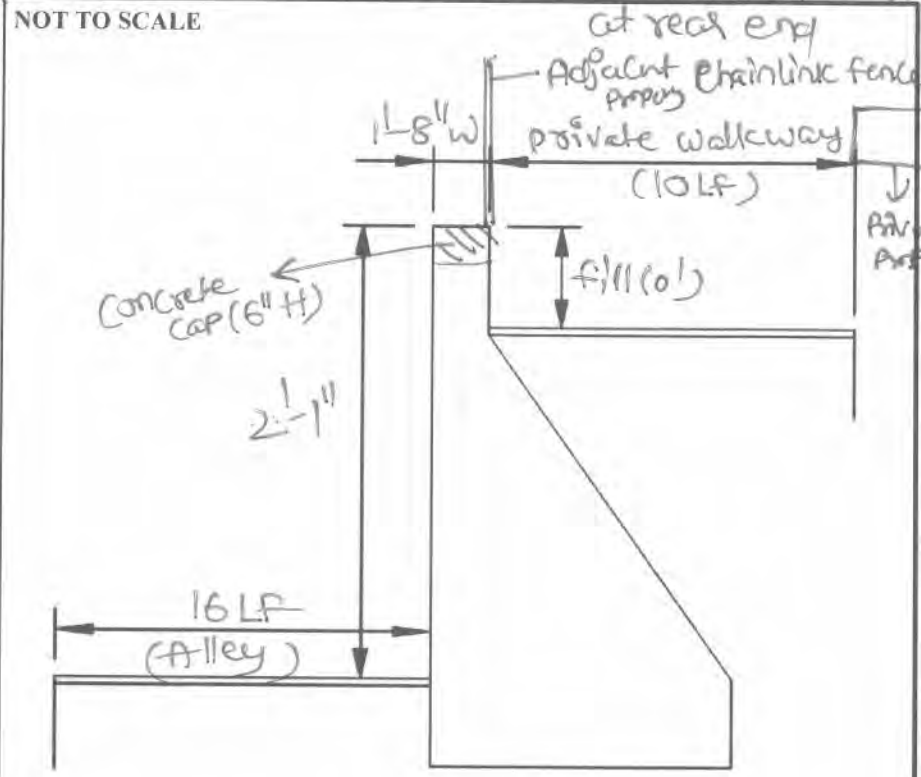
Inspection Date: 04/20/2022

Stone wall along 6130 thru 6122 Jefferson St. at rear end



Notes:

→ Measured at the corner of 6124 Jefferson St.



Notes:

→ Measured at the corner of 6108 Jefferson St.
 → The top/adjacent side of wall have a walkway/alley, appears private along 6104 thru 6118 Jefferson St.

Location: 6101-6231 Jefferson St.

Inspector Initials: SMA

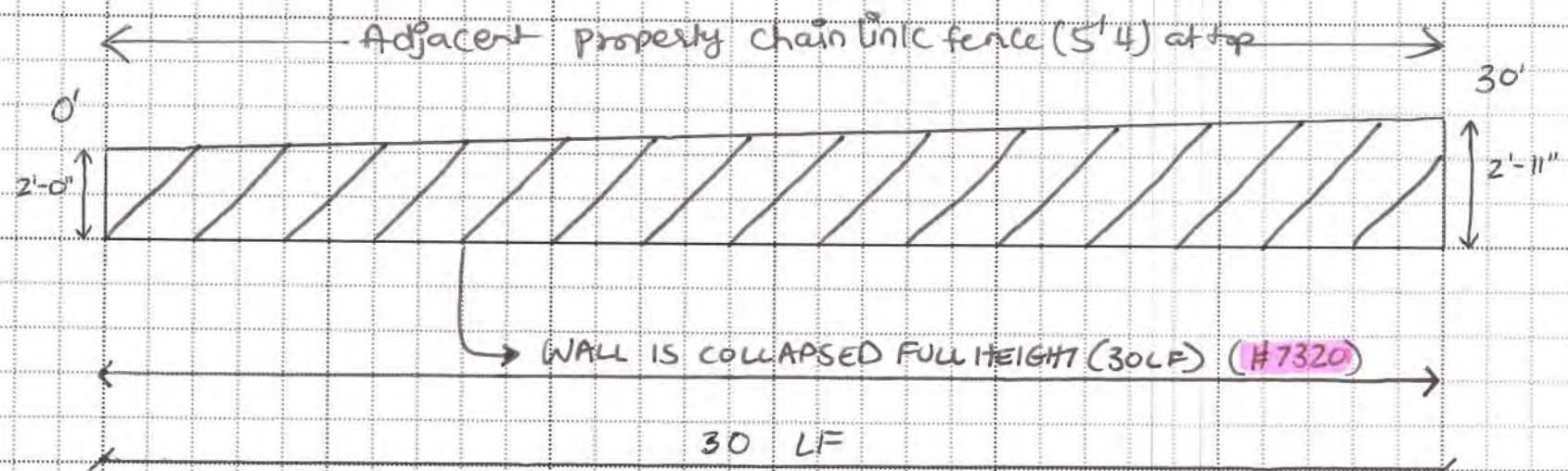
Wall Cross Section Detail 3 of 3

Inspection Date: 04/20/2022

Stone wall throughout

SCALE: 1/4" = 1'-0"

6152



WALL IS COLLAPSED FULL HEIGHT (30LF) (#7320)

30 LF

Notes: ① No LL & I Violations noted for the collapsed lengths

Legend:

- UP - Utility Pole
- LP - Light/Lamp Post
- WH - Weep Hole

* **Failures:** Collapse, Blowout, Lean, Bulge, Deterioration (i.e.: any form of disrepair, loss of material or mortar) or Fair, Good

* **Features:** Prior Repairs (presence and extent), Weep Holes (presence and state), Vegetation (trees greater than 6" diameter and overgrown portions), Utilities (aboveground and underground), Adjacent Structures Affected (e.g.: foundations, buildings, decks) Other Private Assets (e.g.: fences, non-load-bearing walls, patios, special pavements, fixed physical objects, etc.)

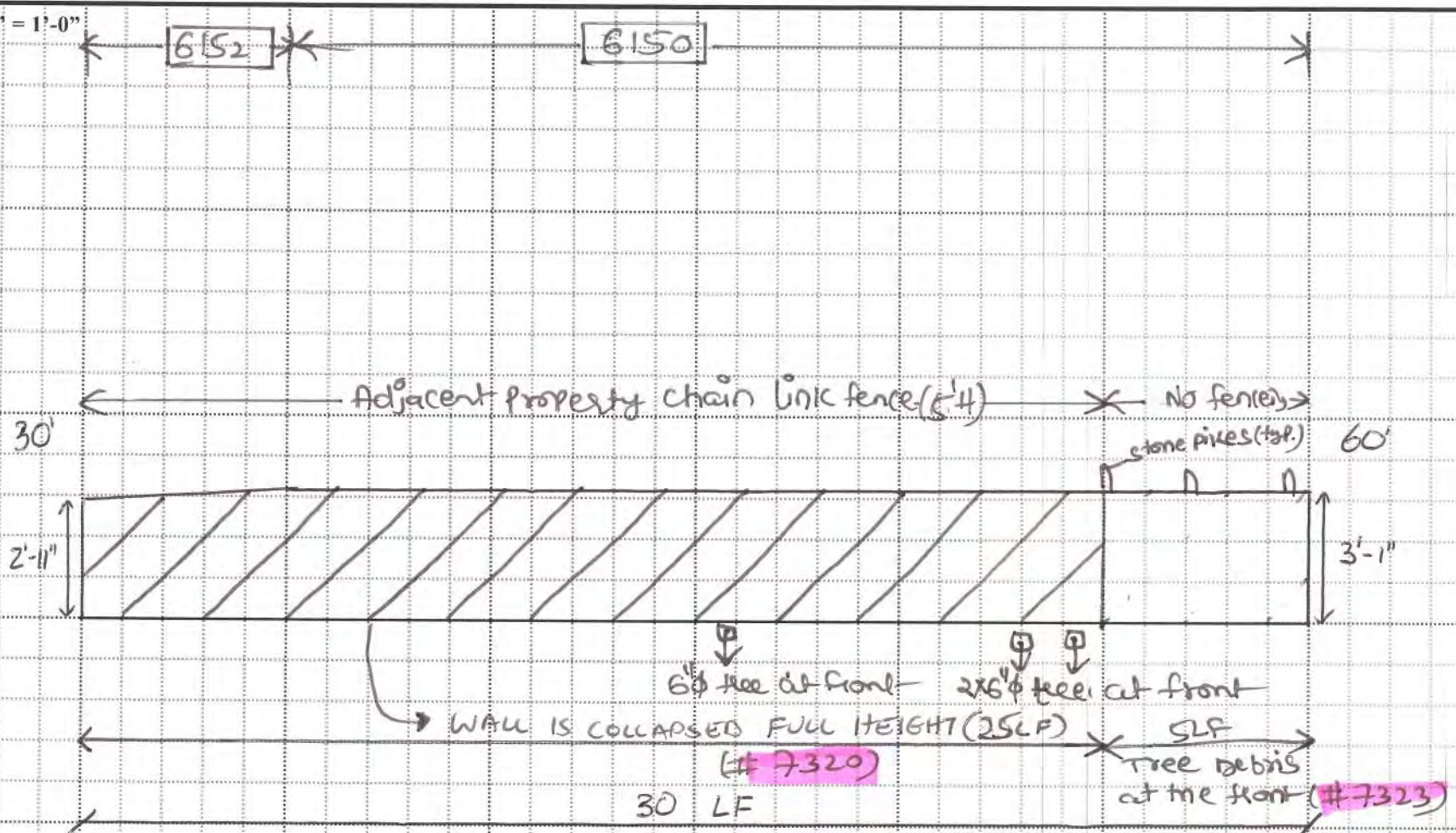
Location: 6101-6231 Jefferson St

Inspector Initials: SMA

Wall Elevation Field Sketch 1 of 25

Inspection Date: 4/20/22

SCALE: 1/4" = 1'-0"



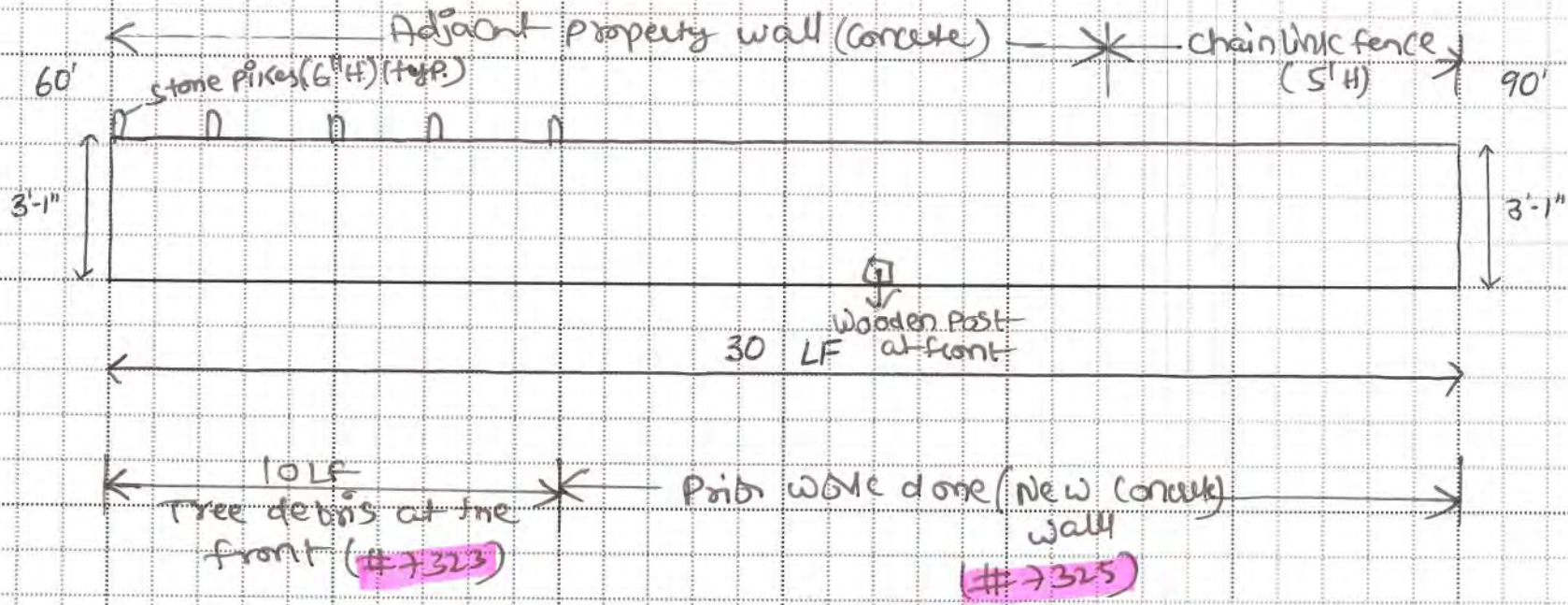
Notes: ① No L&I violations noted for the collapsed wall.

pg 3: 60'-90' ← Stone wall ————— * ————— Concrete wall throughout ————— →

SCALE: 1/4" = 1'-0"

6150

6148

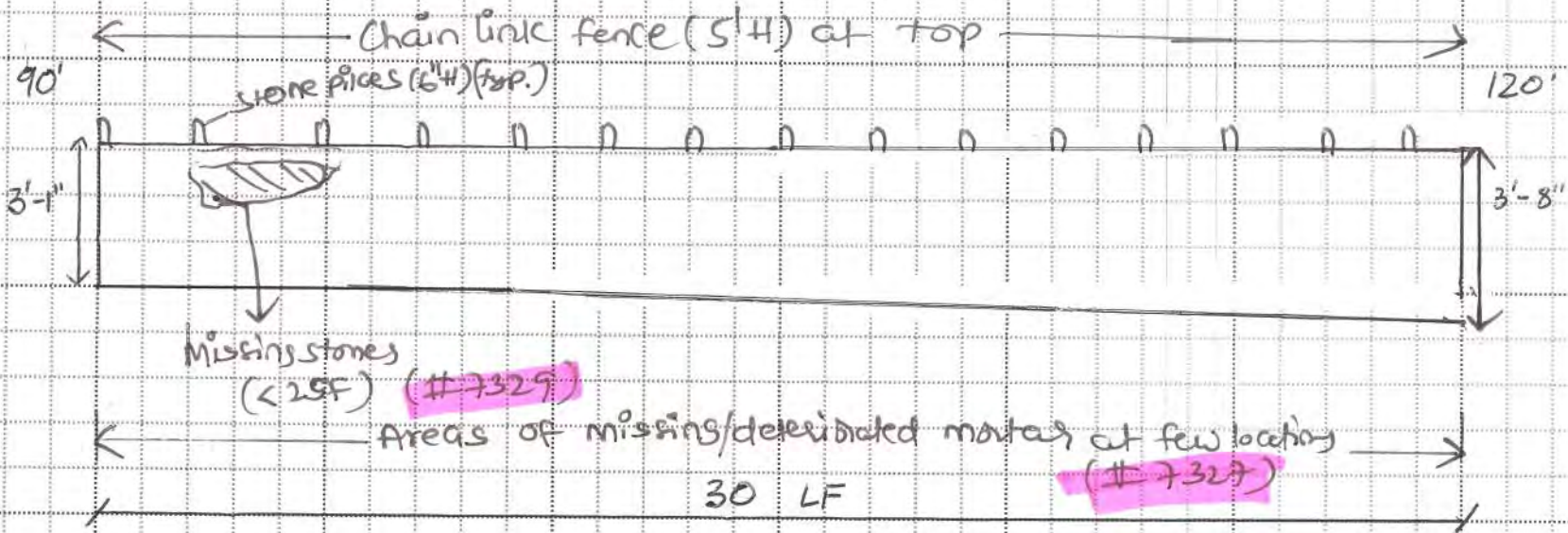


Notes: ① Prior work done, concrete wall (3'-1" H) for approximately 20LF along 6148

SCALE: 1/4" = 1'-0"

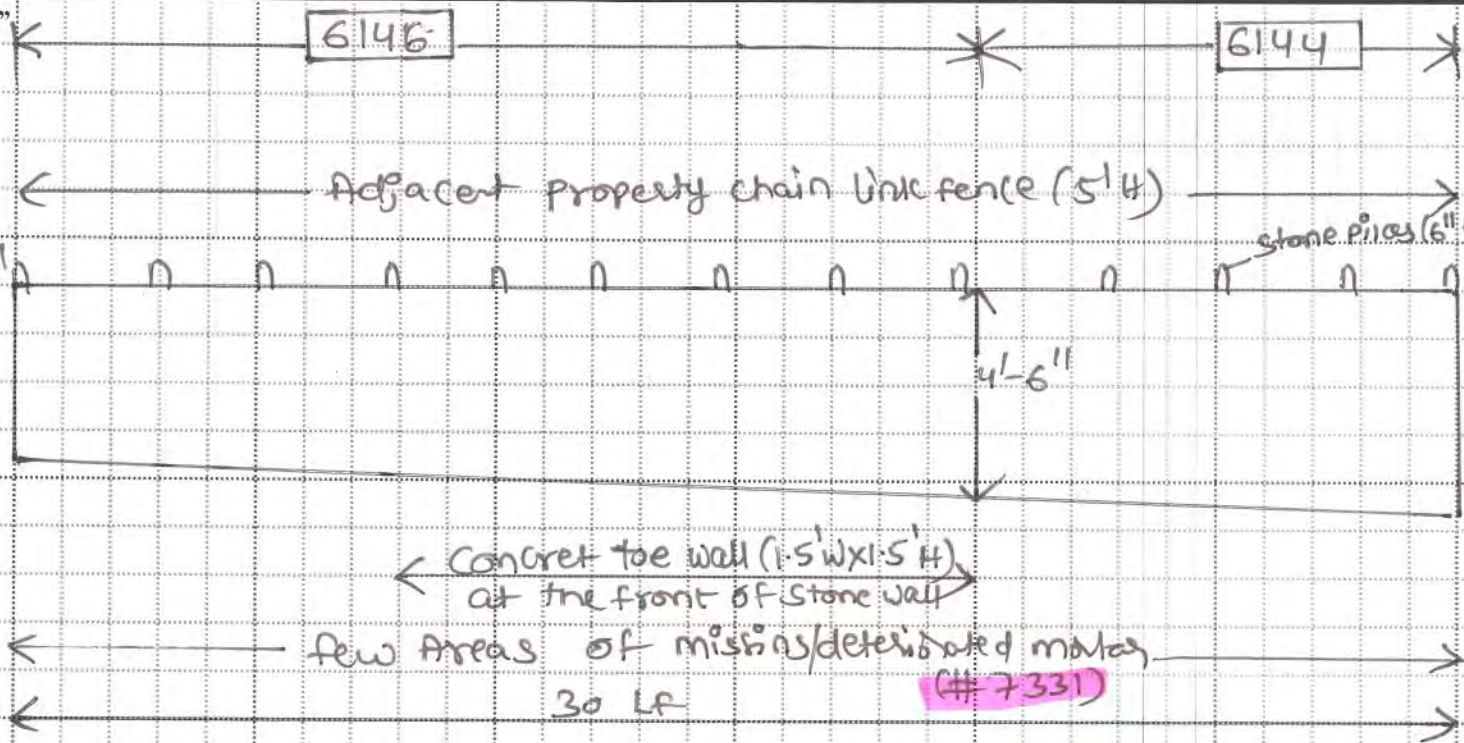
6148

6146



Stone wall throughout

SCALE: 1/4" = 1'-0"



6146

6144

Adjacent Property chain Link fence (5' H)

stone Piles (6" H) (typ.)

120'

150'

3'-8"

4'-6"

4'-9"

Concrete toe wall (1.5' W x 1.5' H) at the front of Stone wall

Few Areas of missing/deteriorated masonry

30 LF

(# 7331)

Patio/Stairwell pads in front of the wall

Stone wall thru-shout

SCALE: 1/4" = 1'-0"

6144

6142



Adjacent property chain link fence (5'4")

150'

180'

4'-9"

5'-5"

Patio Stairwell

in front of the wall

Patio/stairwell

& posts in front of the wall

Areas of severe mortar missing/deterioration at top (3'4") & bulging (<4" max)

7334 7335

30LF

Stone wall throughout.

SCALE: 1/4" = 1'-0"

6142

Adjacent property chainlink fence(5' H)

180'

210'

55'

60"

Patio Stairwell to the front.

Patio Stairwell to the front

Areas of missing/deteriorated material in full height

(# 7336)

30 LF

Stone wall throughout

SCALE: 1/4" = 1'-0"

6140

No fencing at top

210'

240'

6'-0"

6'-3"

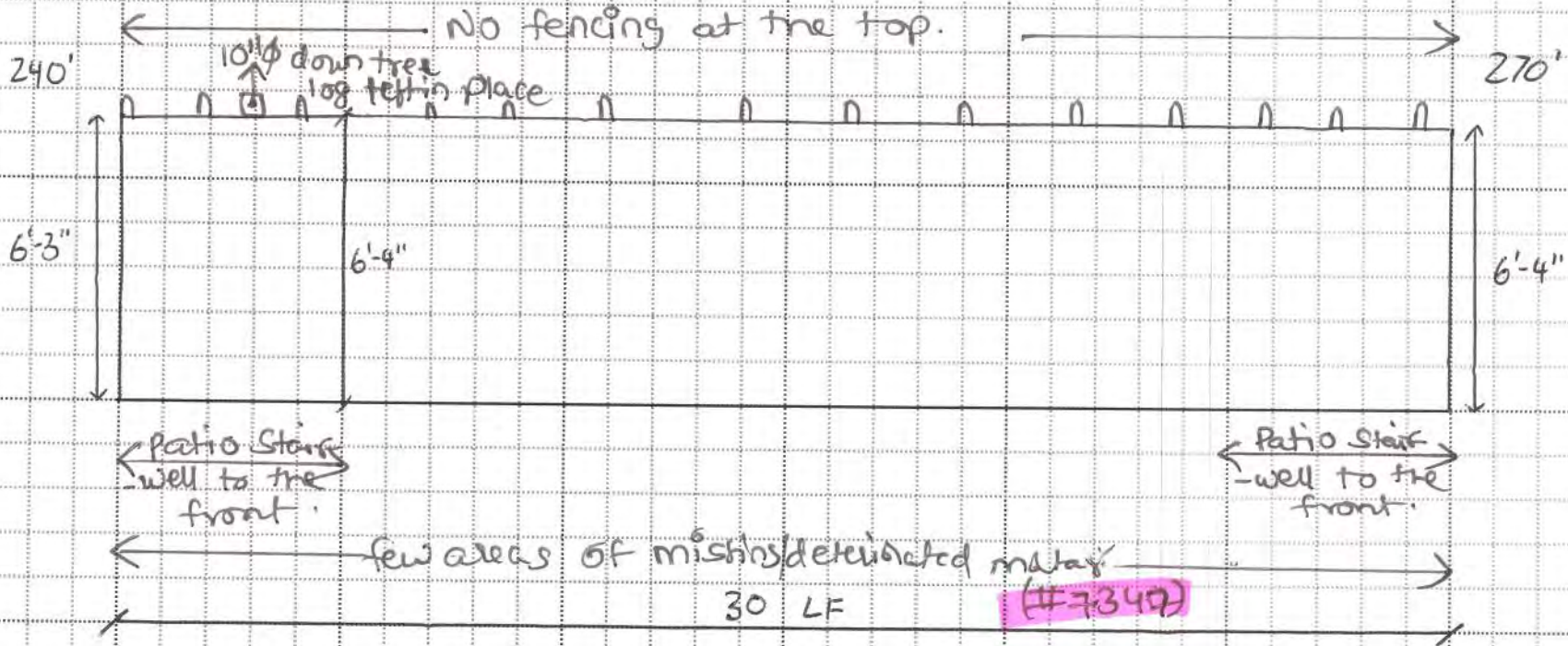
30 LF

- Notes:
- ① Vegetation covering the wall at few locations.
 - ② No significant defects to the wall.

SCALE: 1/4" = 1'-0"

6140

6138



Stone wall Througshout

SCALE: 1/4" = 1'-0"

6138

6136

270' ← NO fencing at top × Adjacent property chainlink fence at top (5'4") → 300'

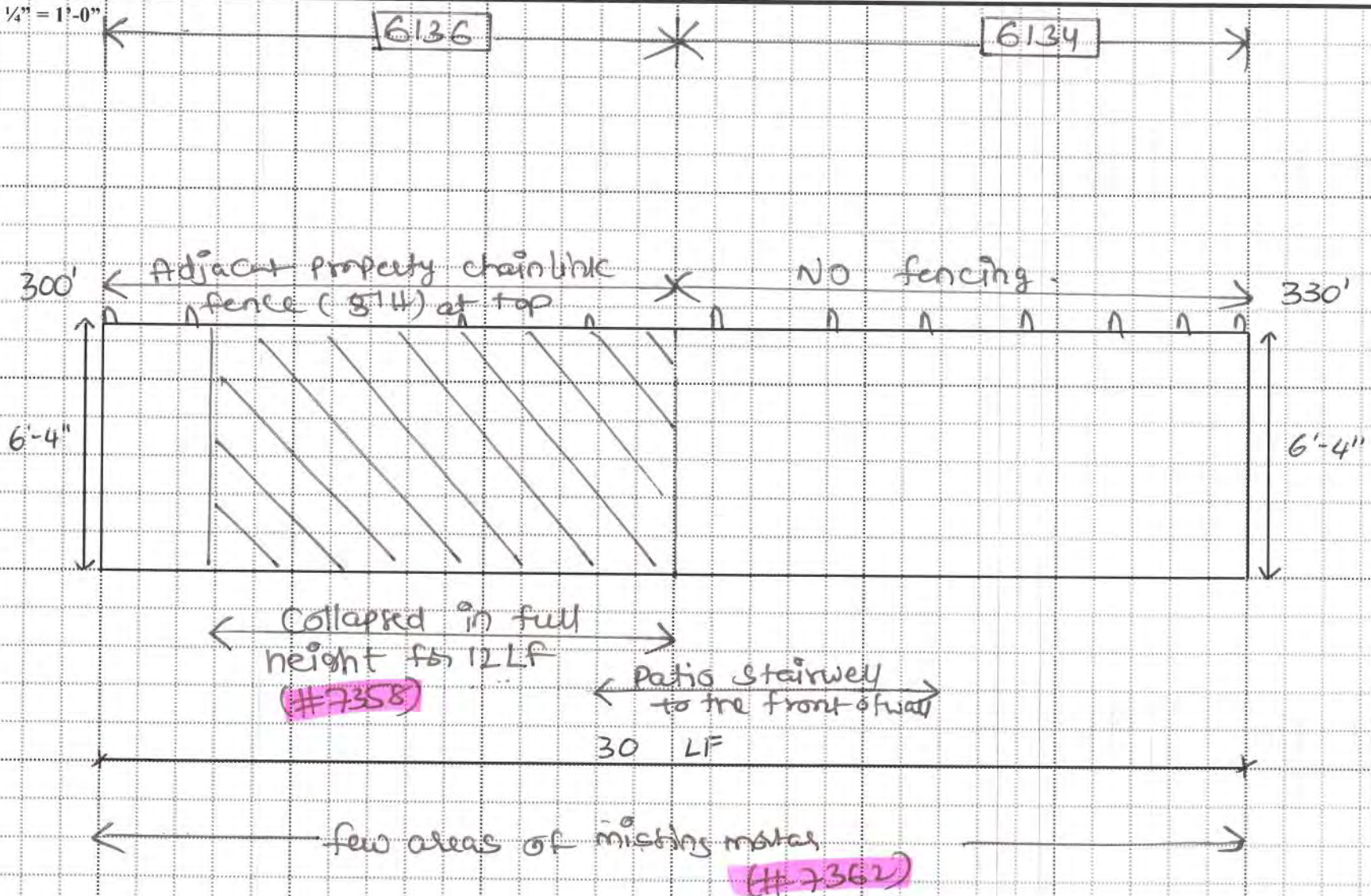
6'-4"

6'-4"

← Areas of missing/deteriorate masonry in top (2'-6" H) (#7357) →

30 LF

SCALE: 1/4" = 1'-0"



Notes: ① no L&I violation noted for collapsed length

Stone wall throughout

SCALE: 1/4" = 1'-0"

6134

6132

No fencing at the top

330'

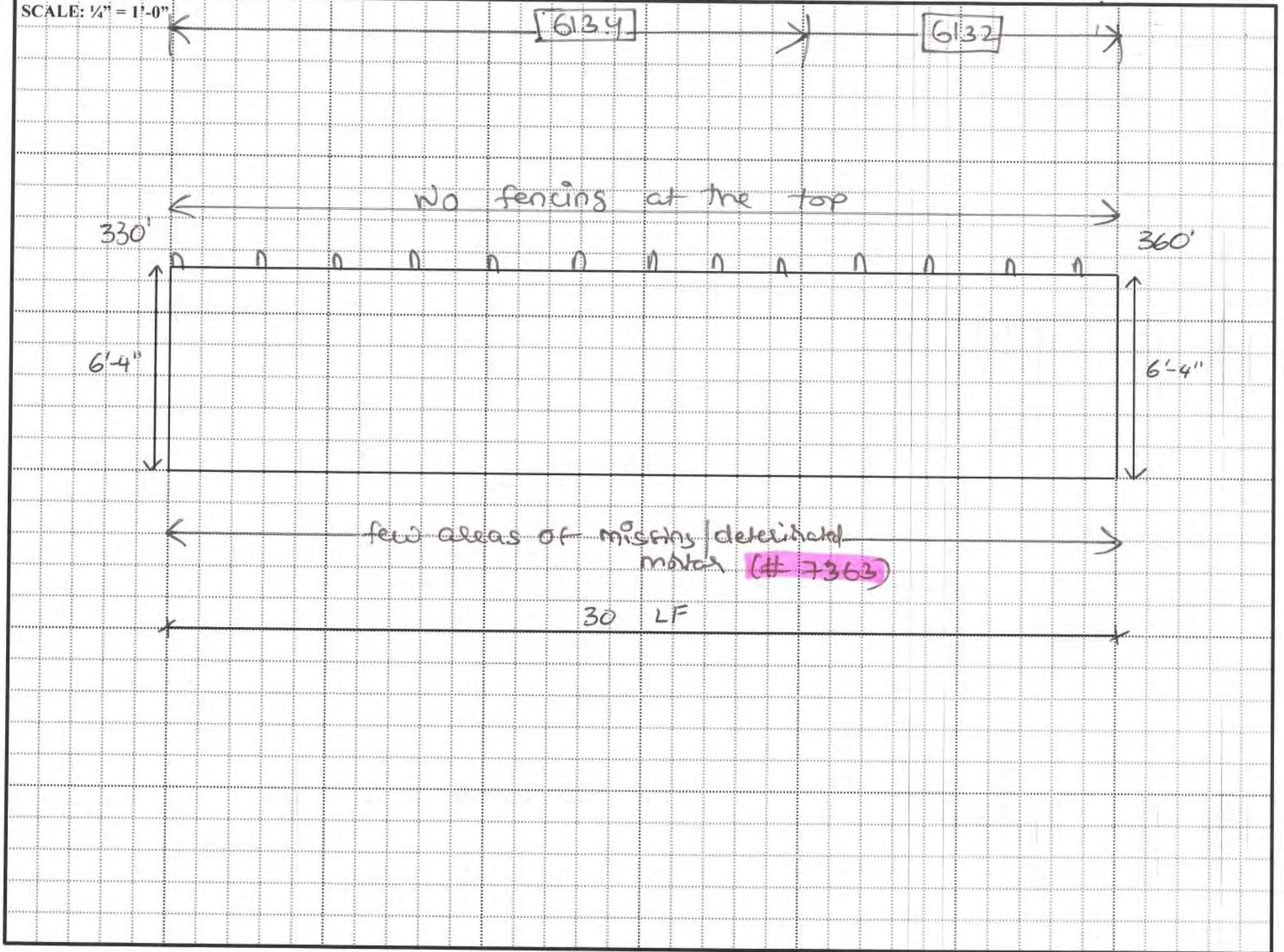
360'

6'-4"

6'-4"

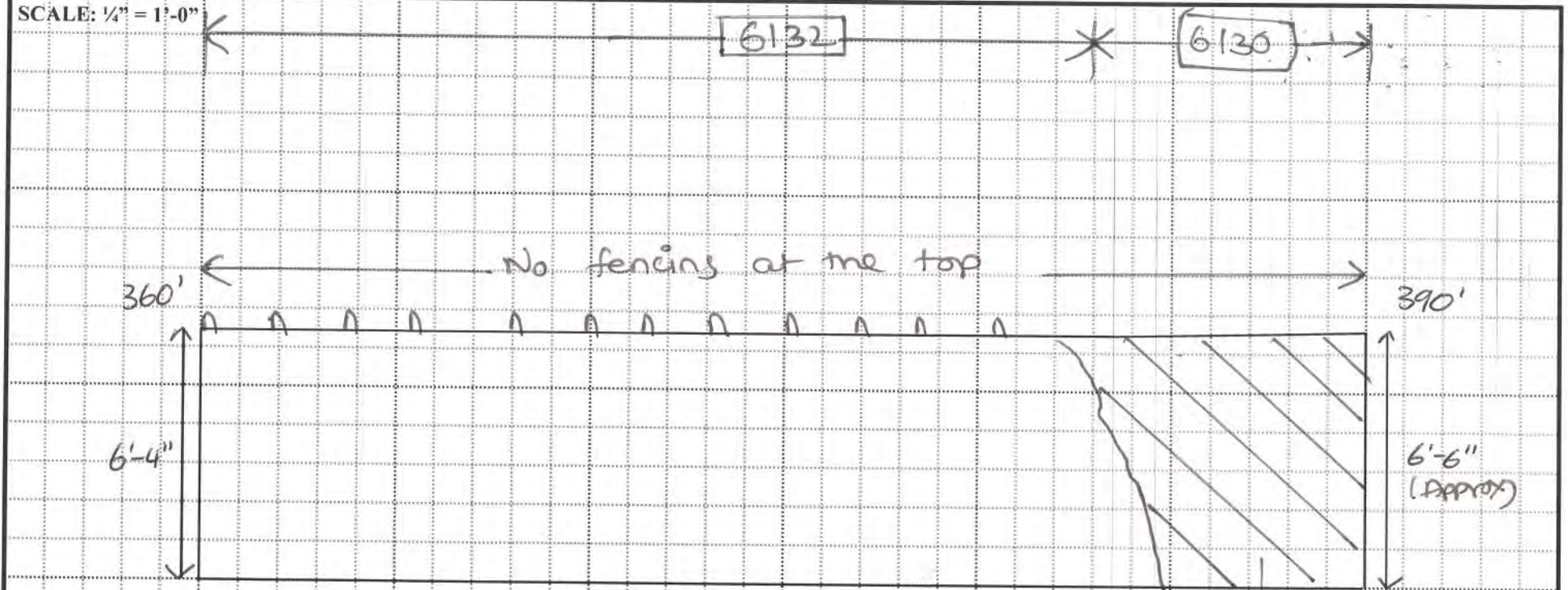
few areas of missing/deteriorated
material (# 7363)

30 LF



Stone wall throughout

SCALE: 1/4" = 1'-0"



← Areas of masonry/deteriorated masonry 30 LF

← Patio stairwell to the front of wall

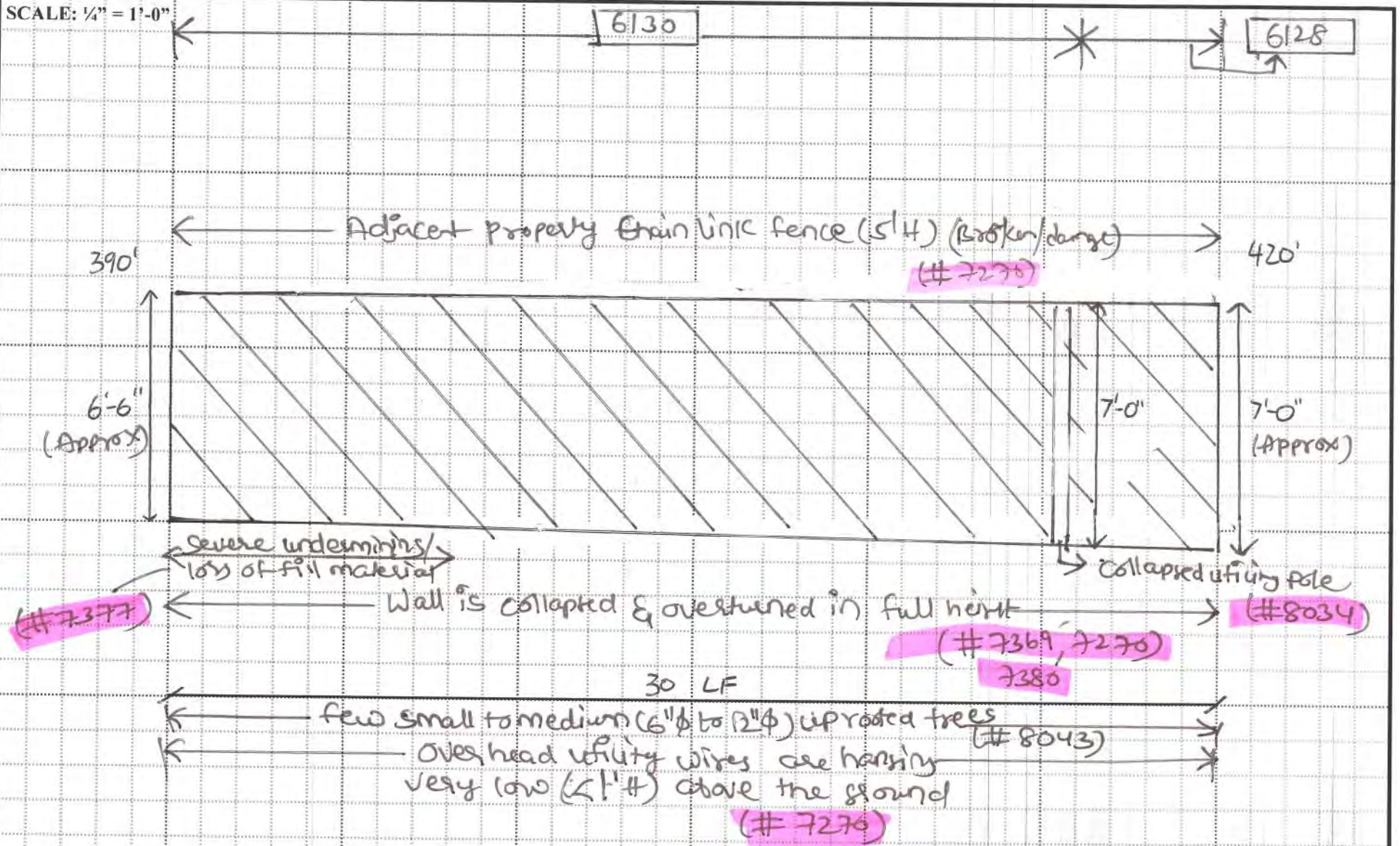
← Collapsed in full height (#7369 7270) (#7380 7377)

← Severe undermining/loss of fill material (#7377)

- Notes:
- ① Wall is collapsed from blocks 6132 thru 6126 for approximately 105 LF (total)
 - ② The collapsed wall is overturned towards the alley & is covering it in full collapsed length
 - ③ Collapsed wall has caused undermining/loss of fill to the adjacent properties
 - ④ No L & I violations noted during the inspection.
 - ⑤ No Stone Piles (6" H) noted off of block 6132 Jefferson St.

Stone wall throughout

SCALE: 1/4" = 1'-0"



- Notes:
- ① Collapsed wall debris is covering the alley along full collapsed length
 - ② Utility pole is broken at the corner of 6130 and overhead utility wires hanging very low (<1'4) above the ground. (#7270)
 - ③ No L&I violations noted

SCALE: 1/4" = 1'-0"

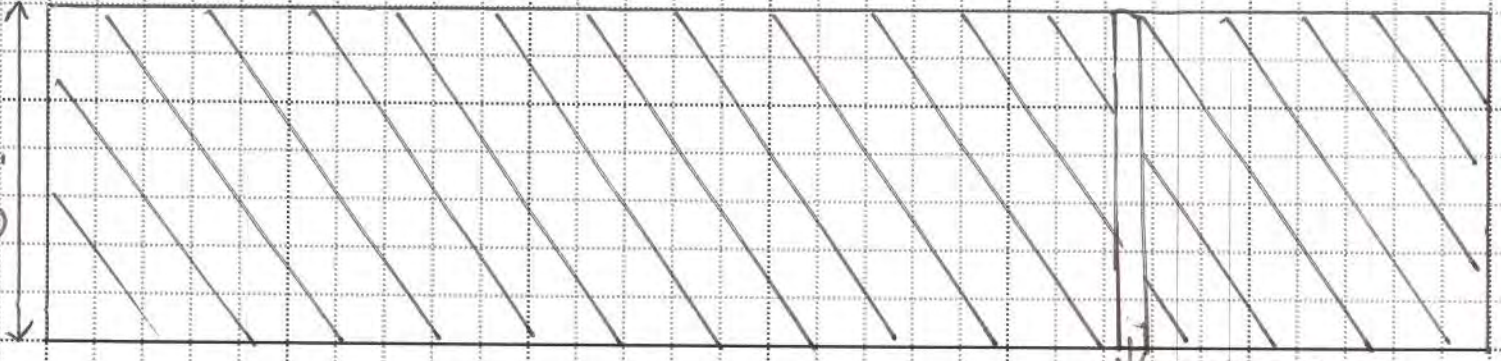
6128

420'

Adjacent property chain link/wooden fencing (5' H)
(Damaged/Broken)

450'

7'-0"
(APPROX)



7'-0"
(APPROX)

LP at the front

Collapsed & overturned in full height

(# 7369, 7270)
7380

30 LF

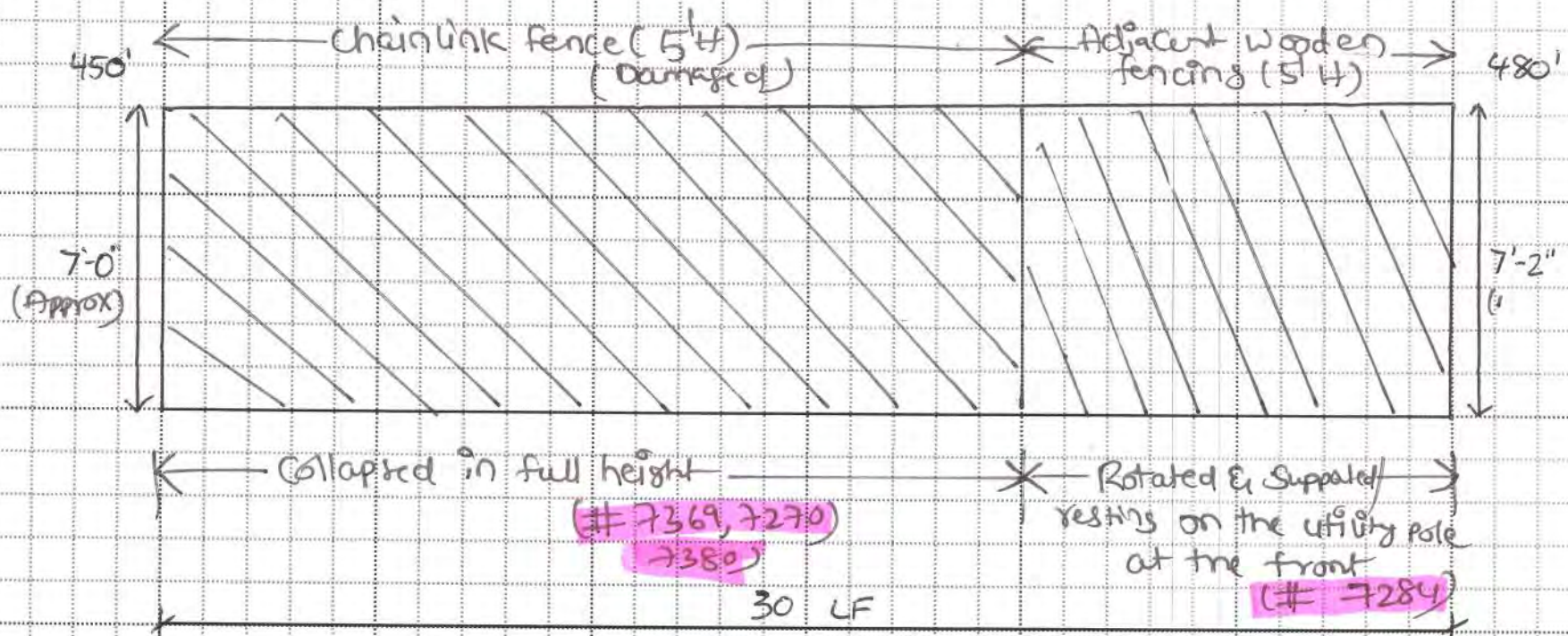
few small to medium (6" φ to 12" φ)
uprooted trees (# 8043)

NOTE: ① utility wires are hanging very low due to broken utility post at 6130

② No L&I violations noted.

SCALE: 1/4" = 1'-0"

6126



- Notes:
- ① The wall is collapsed in full height - along block 6132 thru 6126 for approximately 90 LF
 - ② Portion of wall is rotated & rests for 12 LF on the utility pole in front.
 - ③ overhead utility wires are hanging very low due to broken utility pole at 6130
 - ④ No L&I violations noted. As collapsed wall

Stone wall throughout

SCALE: 1/4" = 1'-0"

6126

6124



Adjacent property chain link fence (SLY) (NSD)

480'

510'

7'-2"

7'-2"

leanings/rotated outwards (15" max) for GLF (#7292) (#7295)

Utility pole at the front

Points w/ work done mortar repointing/spatching (#7297)

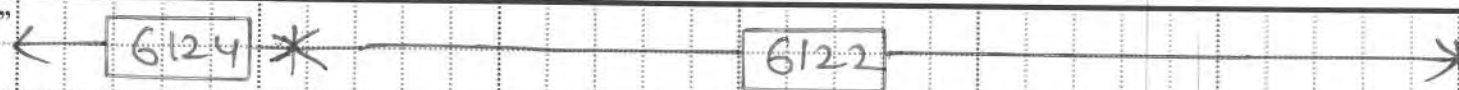
30 LF

Rotated & resting on the utility pole (#7284)

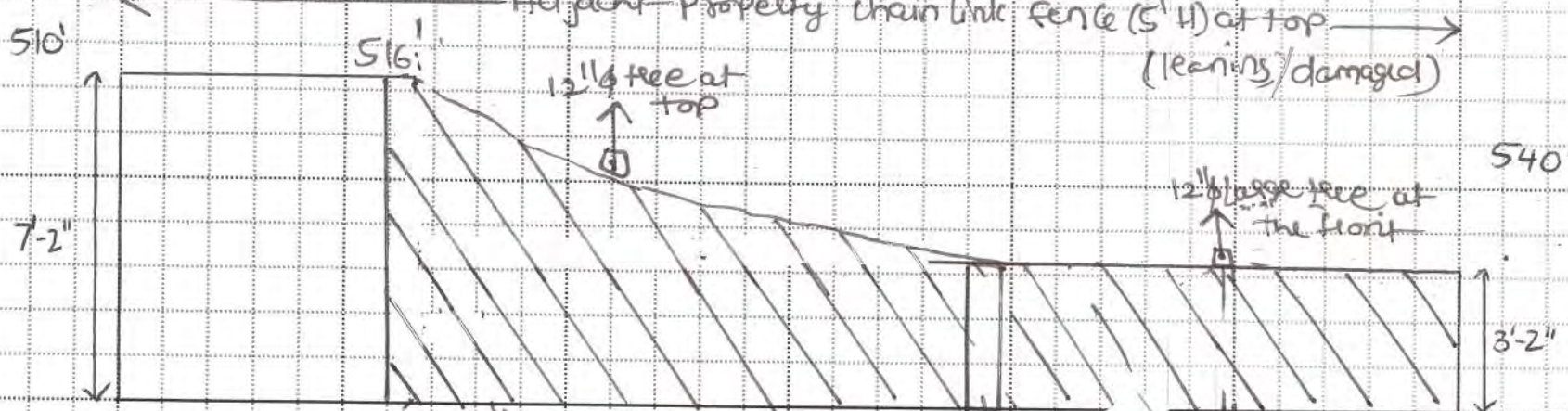
- Notes:
- ① portion of wall adjacent to the utility pole along 6126 is leaning & rotated (15" max) for GLF (#7292) & (#7295)
 - ② No L&I violations noted for leaning/rotated portion of wall

Stone wall throughout.

SCALE: 1/4" = 1'-0"



510' ← Adjacent property chain link fence (5' 4") at top (leaning/damaged) →



Collapsed in full height (# 7298)
LP at the front

30 LF

NOTE: ① NO L&I violations noted for collapsed length

Stone wall throughout.

SCALE: 1/4" = 1'-0"

6122

618-16

Adjacent property chain link fence (5' H) leaning/damaged.

540'

570'

24" 24" φ tree at front

3'-2"

3'-1"

3'-1"

Collapsed in full height (#7298)

UP to the front

Collapsed in full height (#7304)

30 LF

Private fencing/wall/debris to the front (#8064)

Notes: ① private fencing/wall/debris in front of the wall at uncollapsed portion (#8064)

SCALE: 1/4" = 1'-0"

6118-16

6114-12

← Adjacent property chain link fence (5' H) →

570'

3'-1"



10" Tee at front

18" Tee at front

28" Tee at front 600'

3'-0"



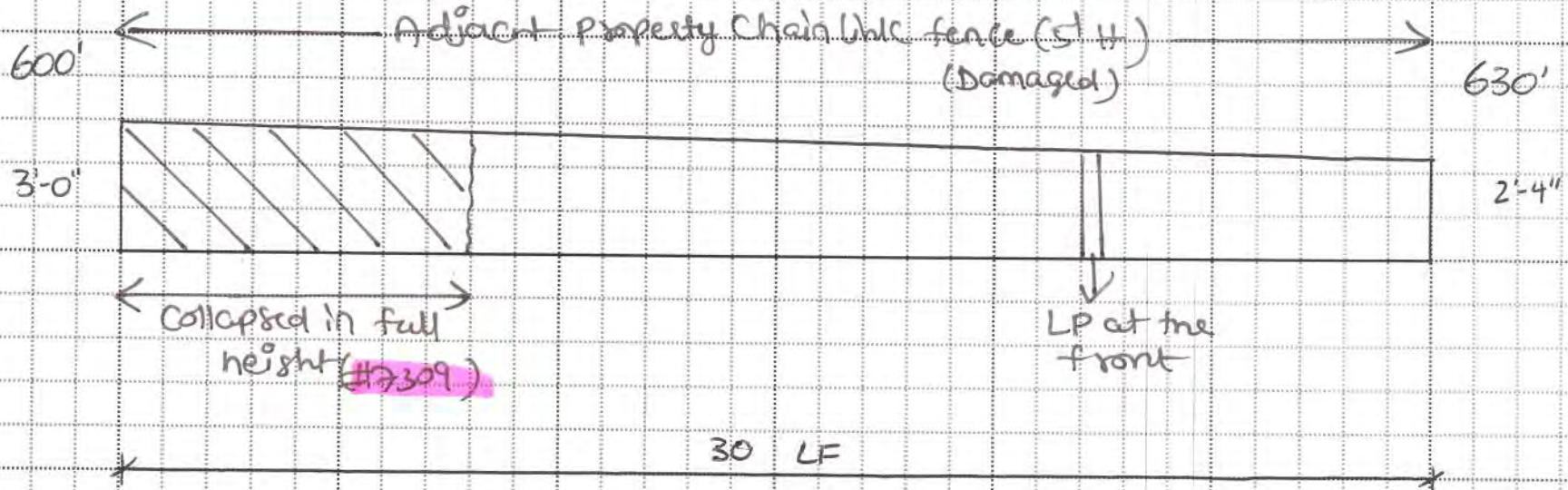
← collapsed in full height (#7304) →

← collapsed in full height (#7309) →

30 LF

SCALE: 1/4" = 1'-0"

6114-12



- Notes: ① Wall is covered with overgrown vegetation throughout (#8074)
 ② Overhead utility wires are hanging very low to the ground (#8074)

Stone wall throughout

SCALE: 1/4" = 1'-0"

6114-12

6110-08

630'

Adjacent chainlink fence (5' H) at top

660'

2'-4"

2'-1"

2'-1"

UP at the front

30 LF

Notes: ① wall is covered with overgrown vegetation & private fencing at the bottom (# 5091)

Stone wall throughout

SCALE: 1/4" = 1'-0"

6110-08



6106-04

← Adjacent property chain link fence (5'H) →

660'

690'

2'-1"

2'-1"

1'-11"

30 LF

Notes: ① wall is covered with overgrown vegetation & private fencing at the front (#8097)

SCALE: 1/4" = 1'-0"

6106-04

690' ← Adjacent chainlink fence (5' H) → 720'

1'-11"

7"

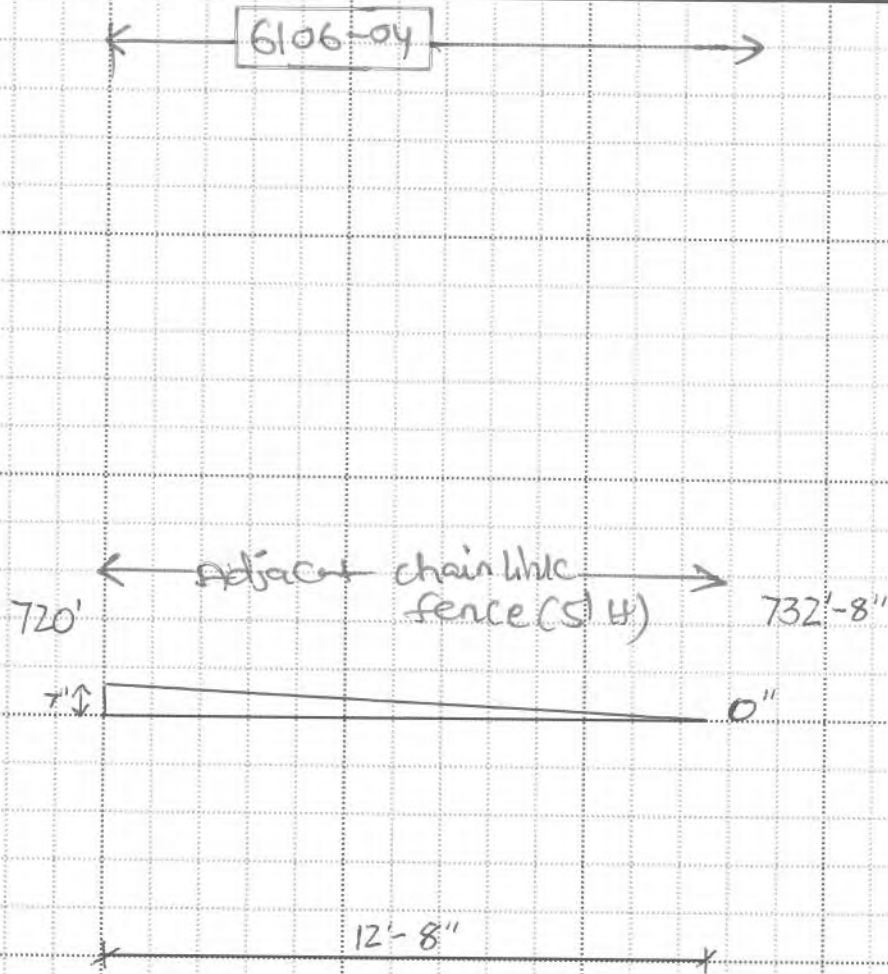
LP at the front

30 LF

Notes: ① wall is covered with overgrown vegetation throughout (#6097)

Stone Wall throughout

SCALE: 1/4" = 1'-0"



Note: ① stone wall transitions into the ground at the corner of Block 6104

Wall ID:	7-038	Location:	6101-6231 Jefferson st.
Inspection Date:	04/20/2022	Alley:	Pg: ① of ⑤

Photo Log

Length	Photo #	Description/Defects
0'-30'	7320	Collapsed wall
30'-60'	7320	Collapsed wall
	7323	Tree debris to the front
60'-90'	7323	Tree debris to the front
	7325	Prin work done, new concrete wall.
90'-120'	7329	Missing stones (<2sf)
	7327	Missing/deteriorated mortar at few locations.
120'-150'	7331	Missing/deteriorated mortar at few locations.

Wall ID: 7-038	Location: 6101-6231 Jefferson St
Inspection Date: 04/20/2022	Alley: ② of ⑤

Photo Log

Length	Photo #	Description/Defects
150'-180'	73435	Missing/deteriorated mortar at top 3'(H) throughout
180'-210'	7336	Areas of missing/deteriorated mortar in full height throughout
240'-270'	7347	Missing/deteriorated mortar at few locations
270'-300'	7351	Areas of missing/deteriorated mortar in top (2'-6" H) throughout
300'-320'	7358	Collapsed in full height
	7362	few areas of missing mortar.

Wall ID: 7-038	Location: 6101-6231 Jefferson St
Inspection Date: 04/20/2022	Alley: PST ③ of ⑤

Photo Log

Length	Photo #	Description/Defects
330'-360'	7363	Missing/deteriorated mortar at few locations
360'-390'	7369	Collapsed in full height
	7270	Collapsed in full height, Broken utility pole & low hanging wires
	7380	Collapsed in full height
	7377	Severe undermining
390'-420'	7369	Collapsed in full height
	7270	Collapsed in full height, Broken utility pole & low hanging wires.
	7380	Collapsed in full height
	8034	Collapsed utility pole & down/low hanging wires
	8043	uprooted trees (small to medium)
420'-450'	7369	Collapsed in full height
	7270	Collapsed in full height, Broken utility pole & low hanging wires
	7380	Collapsed in full height
	8043	uprooted trees (small to medium)
450'-480'	7369	Collapsed in full height
	7270	Collapsed in full height, Broken utility pole & low hanging wires.
	7380	Collapsed in full height
	7284	Rotated & supported portion of wall on utility post at front

Wall ID:	7-038	Location:	6101-6231 Jefferson &
Inspection Date:	04/20/2022	Alley:	PG (4) of (5)

Photo Log

Length	Photo #	Description/Defects
485'510'	7284	Rotated & supported portion of wall on utility post at front
	7292-95	Leaning/rotated (15" max) outwards -
	7297	Prin work done, metal repair/repatching.
510'540'	7298	Collapsed in full height
540'570'	7298	Collapsed in full height
	7304	collapsed in full height
	8064	Private wall/fence to the front of wall.
570'600'	7304	collapsed in full height
	7309	collapsed in full height
600'630'	7309	collapsed in full height
	8074	overgrown vegetation covering the wall & low hanging overhead wires

Wall ID:	7-038	Location:	6101-6231 Jefferson St
Inspection Date:	04/20/2022	Alley:	Pgt 5 of 5

Photo Log

Length	Photo #	Description/Defects
630'-660'	8091	overgrown vegetation
660'-680'	8097	overgrown vegetation
690'-720'	8097	overgrown vegetation

ATTACHMENT 3
Water Well Information

WATER WELL INFORMATION REPORT

PA Well ID: **136064** Local Well ID: **0008N** Local Permit #:

LOCATION INFORMATION

Owner: **WOOD TREATING CORP** Original Paper Record Image Available: **No**

Address of Well:

County: **PHILADELPHIA**

Municipality: **PHILADELPHIA**

Latitude: **39.98306** Coordinate Method:

Longitude: **-75.24167** Data Reliability: **LOCATION MAY NOT BE ACCURATE (WWI paper)**

Description of Well Location and Other Notes:

WELL CONSTRUCTION INFORMATION

Well Driller: **THOMAS KEYES, INC.** License: **0248** Driller Well ID:

Type of Activity: **New Well** Date Drilled: **4/1/1981** Drilling Method:

Well Depth (ft): **223** Well Finish: **OPEN HOLE**

CASING

<u>Top (ft)</u>	<u>Bottom (ft)</u>	<u>Diameter (in)</u>	<u>Casing Material</u>	<u>Seal Top</u>	<u>Seal Bottom</u>	<u>Seal Type</u>
0	27	6				

GROUNDWATER AND GEOLOGICAL INFORMATION

Well Yield (GPM - gal per min): **20** Yield Measurement Method: **VOLUMETRIC, WATCH & BUCKET**

Water Level when not pumped: (ft below land surface) **26** Water Level after yield test: (ft below land surface) **218**

Length of Yield Test (minutes): **1** Saltwater Zone (ft):

Use of Well: **WITHDRAWAL** Use of Water: **INDUSTRIAL**

LEVELS WHERE WATER ENTERS WELL

<u>Top (ft)</u>	<u>Bottom (ft)</u>	<u>Yield (GPM)</u>
164		
180		

Depth to Bedrock (ft): **20** Was Well Drilled Into Bedrock? **Yes**

Date Printed: **12/16/2022**

ATTACHMENT 4
Gannett Fleming DCP Logs

Dynamic Cone Penetrometer Logs



Inspector: Z. Abbas/J. Manning

Boring ID: GF-1 Date: 11/16/2022 Elevation: 224.43

Depth (ft)	Blows	Description
1	3	0'-1': Silty sand, sm
2	-	
3	-	1'-4': Sandy silt with clay, ml
4	2	

Boring ID: GF-2 Date: 11/16/2022 Elevation: 220.16

Depth (ft)	Blows	Description
1	2	0'-2.5': Clayey silty with sand, ml
2	-	
3	-	2.5'-4': Silty clay with sand, cl
4	5	

Boring ID: GF-3 Date: 11/16/2022 Elevation: 223.42

Depth (ft)	Blows	Description
1	2	0'-3': Silty sand with gravel, sm
2	-	
3	-	3'-4': silty sand, sm
4	9	

Boring ID: GF-5 Date: 11/16/2022 Elevation: 221.16

Depth (ft)	Blows	Description
1	1	0'-2': Clayey silty with sand, ml
2	-	
3	-	2'-4': Sandy clay with silt, cl
4	9	

Boring ID: GF-6 Date: 11/16/2022 Elevation: 216.45

Depth (ft)	Blows	Description
1	2	0'-2.5': silty sand, sm
2	-	
3	-	2.5'-3.5': silty sand, sm
3.5'	5	

Boring ID: GF-7 Date: 11/16/2022 Elevation: 205.71

Depth (ft)	Blows	Description
1	3	0'-1.5': silty sand, sm
2	-	
3	-	1.5'-4': Silty clay with fine sand, cl
4	12	

Comments:

Hand augers GF-2, 3, 5 and 6 were located behind the wall.

Hand Augers GF-1 and 7 were located in front of the wall.

ATTACHMENT 5
Site Photos



Photo 1: GF-1 looking southeast



Photo 2: GF-2 looking north towards deteriorating stone masonry wall



Photo 3: GF-2 looking east towards deteriorating stone masonry wall



Photo 4: GF-3 looking northeast towards stone masonry wall and garage on adjacent property.



Photo 5: Collapsed stone masonry wall between GF-3 and GF-5 looking northeast



Photo 6: Collapsed stone masonry wall between GF-3 and GF-5 looking east



Photo 7: GF-5 looking south towards collapsed stone masonry wall, damaged utilities and stairs



Photo 8: GF-5 looking north towards collapsed stone masonry wall, soil failure, and garage on adjacent property



Photo 9: GF-5 looking east down alley showing soil failure and collapsed stone masonry wall



Photo 10: GF-6 looking west showing failing stone masonry retaining wall and damaged utilities



Photo 11: GF-6 looking northeast showing failing retaining wall leaning against utility pole

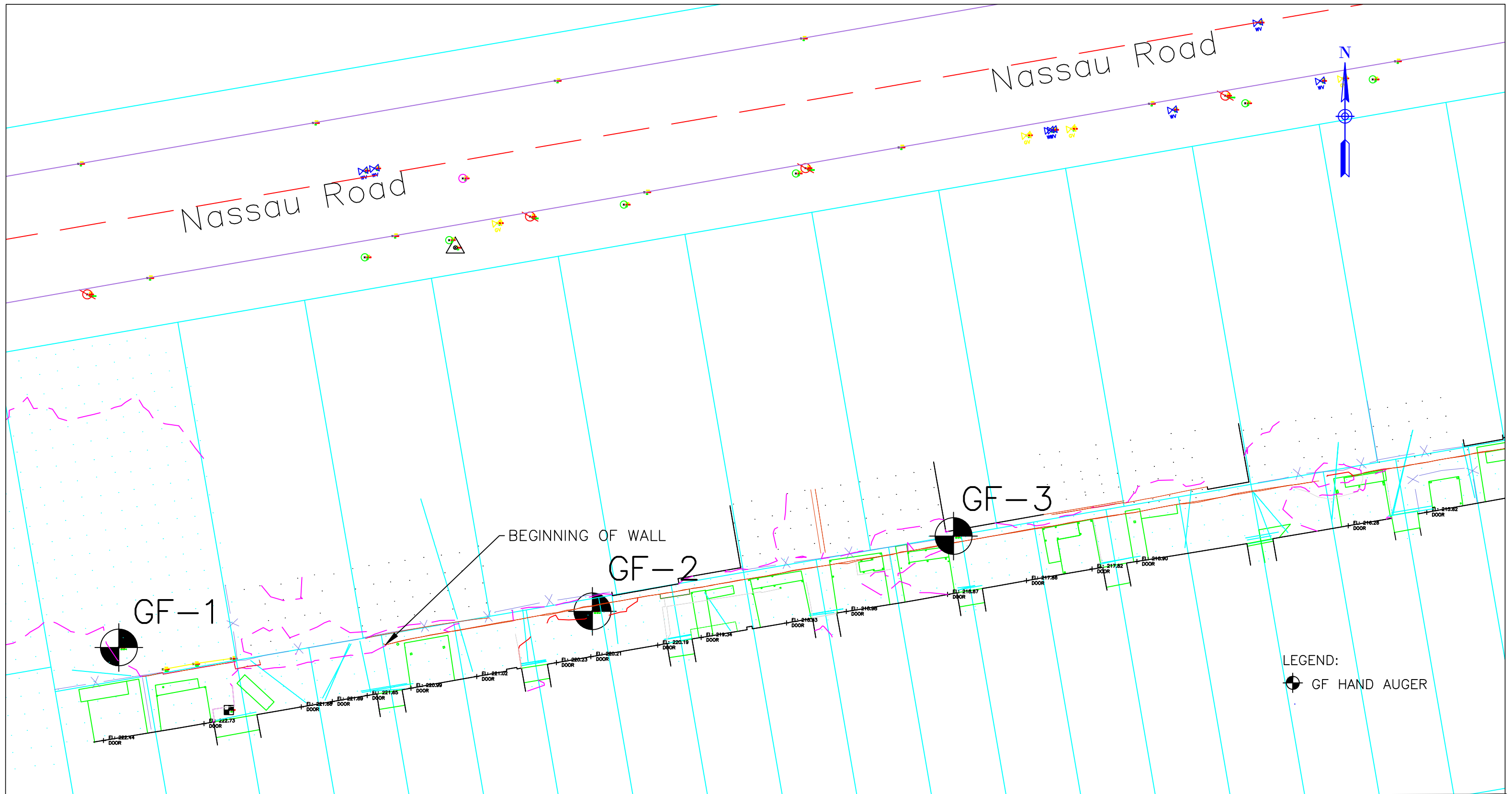


Photo 12: GF-6 looking east showing conditions above wall, repairs made to adjacent structure



Photo 13: GF-7 looking northwest showing decreasing height of retaining wall

ATTACHMENT 6
Dynamic Cone Penetrometer Location Plan



GANNETT FLEMING

JEFFERSON STREET RETAINING WALL

DCP LOCATION PLAN

JOB: 066357

DATE: DECEMBER 2022

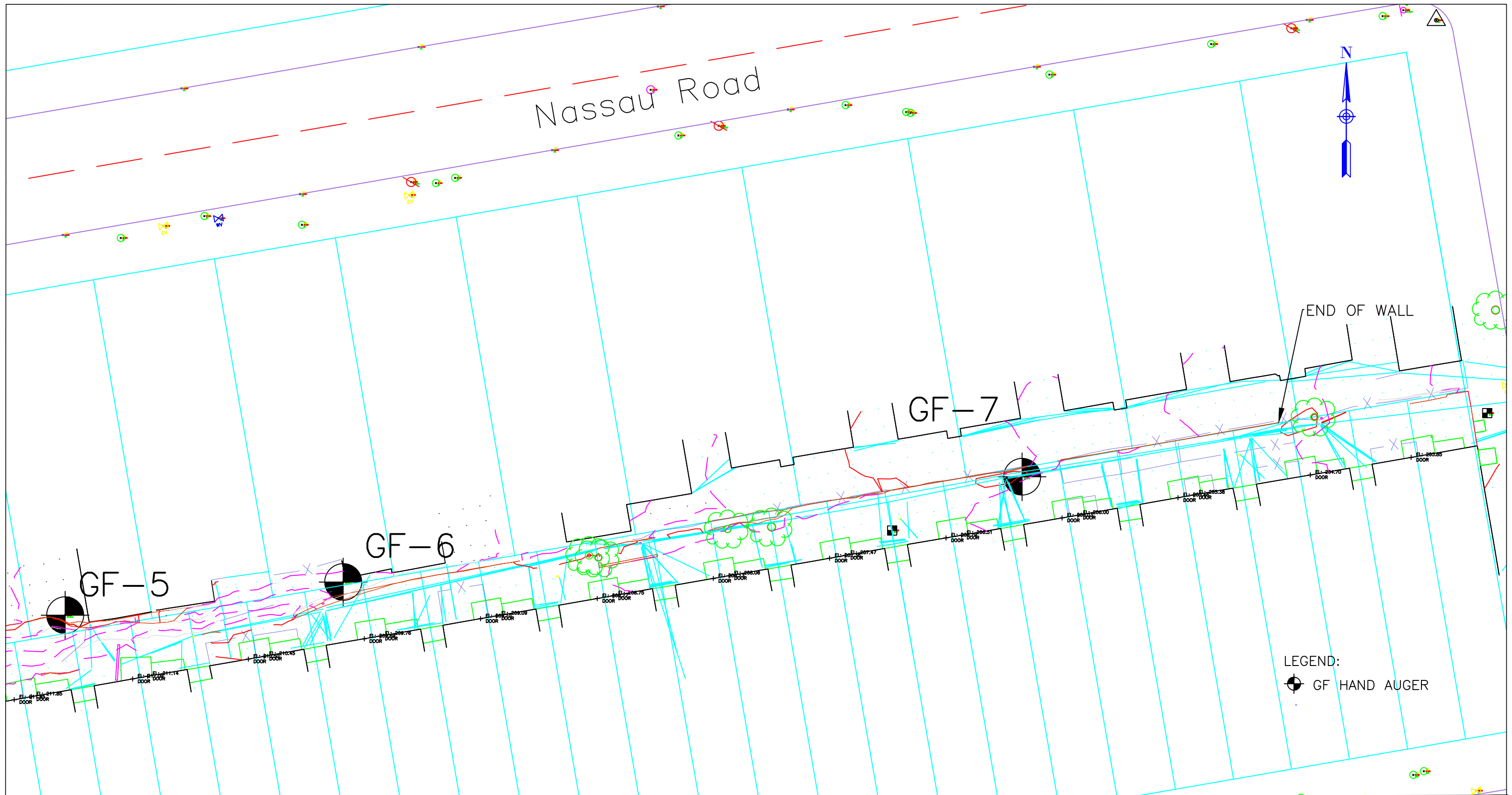
VALLEY FORGE, PENNSYLVANIA

PHILADELPHIA COUNTY
PENNSYLVANIA

1" = 25'

SHEET:

1 OF 2



GANNETT FLEMING

JEFFERSON STREET RETAINING WALL

DCP LOCATION PLAN

JOB: 066357

DATE: DECEMBER 2022

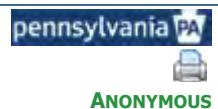
VALLEY FORGE, PENNSYLVANIA

PHILADELPHIA COUNTY
PENNSYLVANIA

1" = 25'

SHEET:
2 OF 2

ATTACHMENT 7
PennDOT TESPS SSP



STANDARD SPECIAL PROVISION

Detail

Index or Category: Item Related

Status: **Active**

Sequence ID: 2032

District: CO

Version: C

Provision Name: c02032 ITEM 9203-2101(ITEM 9203-0101) - TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

Usage Information

Measurement: Dual

Edit Body: No

Include on all projects: No

Edit Header: Yes

Include on all federally funded projects: No

Edit Project Specific Details: Yes

Include on all 100% State funded projects: No

Instructions for Usage: The Heading and Project Specific Details must be edited to indicate the details and/or item(s) of construction. Use on projects where shoring is required and can be designed and constructed at the locations indicated. Requires data entry in the Project Specific Details for soil properties. Use in accordance with Strike-off Letter 431-03-14, dated December 17, 2003 which added section D11.1.1.8P Temporary Excavation Support for Structures to Design Manual Part 4.

When using this item, use work class code(s) C1 and S5.

Effective From: 01/21/2009

To: 01/01/2199

Associated Items

Item Number	Description
<i>No records found.</i>	

Header

ITEM 9203-2101(ITEM 9203-0101) - TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

Provision Body

I. DESCRIPTION - This work is the design and construction of a temporary excavation support and protection system or appropriately designed open cut excavation, as indicated, with a service life of less than or equal to 36 months.

II. MATERIAL - Provide certification or laboratory test results verifying material properties. For used steel, the salvage design values from AASHTO Guide Design Specification for Bridge Temporary Works (AASHTO Guide Spec) may be used as an alternate to testing to determine grade of steel. Materials need not be new but must be in serviceable condition as determined by the Engineer. Temporary material used does not have to be from a Bulletin 15 source, but must meet the following:

- Structural Steel.....AASHTO M 270M/270 (ASTM A709M/A709) Grade 250(Grade 36), Grade 345(Grade 50) or Grade 345W(Grade 50W)

- Steel Sheet Piling..... ASTM A328M/A328, ASTM A572M/A572
- Steel H-Piles.....AASHTO M 270M/270 (ASTM A709M/A709), Grade 250(Grade 36)
- Wood Lagging.....Rough Cut Species in AASHTO Guide Spec
Appendix A and AASHTO Construction Handbook for Bridge
Temporary Works Appendix C
- Cement.....AASHTO M85 and AASHTO M240
- Pre-Stressing Steel..... ASTM A416 Grade 270
- Welded Wire Fabric.....AASHTO A55 (ASTM A185)
- Reinforcement Bars.....AASHTO M 31M/31 (ASTM A615M/A615), AASHTO M42M/M42
(ASTMA616M/A616),Grade420(Grade 60)
- Other Material.....In accordance with applicable Sections of Publication 408

III. DESIGN - Design the temporary excavation support and protection system in accordance with current AASHTO LRFD Bridge Design Specifications and Design Manual, Part 4 (Metric) Specifications, current FHWA guidelines and AASHTO Guide Spec. Design temporary excavation support and protection system for final condition and all construction conditions, including surcharge loads due to vehicle traffic and construction equipment. Submit 4 sets of design calculations and 4 sets of completed detailed drawings, signed and sealed by a Professional Engineer, registered in the Commonwealth of Pennsylvania to the District Executive for review. Include in the design calculations all material properties, design loads, and design assumptions. Include on the completed detailed drawings all design dimensions, limits of work, elevations, material, member sizes and construction sequence. Provide cutoff elevation of steel and wooden components for work in streambed. Include specific installation procedures and testing requirements as part of the submittal. Allow 14 days for the review by the Department.

Ensure that temporary excavation support and protection system design and construction conforms to the following:

a) Open cut excavations are allowed, provided they meet OSHA requirements, the safety of the traveling public, the approved traffic control plan and existing structure is assured, and they stay within the legal right-of-way lines. Cuts can extend beyond legal right-of-way lines only with the written approval of the Department and written permission of the property owners. Ensure environmental compliance if cut extends beyond area cleared by the Department. Submit slope stability analysis in accordance with Publication 293.

b) The temporary excavation support and protection system will be selected by the Contractor. Examples include anchored walls, mechanically stabilized earth walls, prefabricated modular walls, cantilever walls, cofferdams, and soil nailing walls. These systems may be comprised of one or more of the following: Soldier Piles, Timber Lagging, Steel Sheet Piling, Caissons, Slurry Walls, Tiebacks, Soil Nails, Shotcrete, Deadman Anchors, Wales, Cross lot Bracing, Raker Braces, Precast Concrete, Precast Lagging, Soil Cement Lagging, Cement Bentonite, Gabions, Minipiles, Concrete Reaction Blocks, Mechanically Stabilized Earth Walls or other methods.

c) Design temporary excavation support and protection system based on the following parameters:

1. Soil parameters (*see Project Specific Details for following parameters*):

1.a Effective angle of friction 32°

1.b Moist unit weight of soil 115 pcf

- 1.c Saturated unit weight of soil 120 pcf
- 1.d Effective cohesion 0
- 1.e Static groundwater level at elevation N/A
- 1.f Undrained shear strength of cohesive soil 0
- 1.g Shear strength for rock mass N/A

Provide other soil/rock properties with test data, needed in the design of the temporary excavation support and protection system.

2. Ensure that all components stay within the legal right-of-way unless an easement is obtained by the Contractor.

IV. CONSTRUCTION - Install temporary excavation support and protection system in accordance with applicable sections of Publication 408. Be responsible for adequacy, safety and compliance with Traffic Control Plan. If the design is not compliant with the approved Traffic Control Plan, furnish any additional traffic control devices at no additional cost to the Department. All steel and wooden components may remain in place to pavement subgrade or 0.6 meters(2 feet) below finish grade, whichever is higher elevation. Treated wood is not required unless it is within 2 meters(6 feet) of finish grade and is to remain in place. Pressure treat with chromate copper arsenate (CCA) to refusal. Finish grade is defined as top of pavement when a roadway is behind the temporary excavation support and protection system. Have a Professional Engineer, registered in the Commonwealth of Pennsylvania, certify that the temporary excavation support system or open cut excavation has been installed as shown on the Professional Engineer's signed and sealed drawings. Submit the certification to the Representative within 3 working days of completion of the system.

V. QUALIFICATIONS - The work must be supervised by a superintendent or foreman who is experienced, in the construction of temporary excavation support and protection system proposed. If the design height of the temporary excavation support and protection system exceeds 6 meters(20 feet), provide the following with the design submission:

- For the superintendent or foreman who will supervise the work, submit a list containing at least 5 projects which demonstrate a minimum of 3 years experience in the construction of the temporary excavation support and protection system proposed. Include a brief description of each project and the name and phone number of the owner's representative knowledgeable in each project listed.
- The name of the Professional Engineer, registered in the Commonwealth of Pennsylvania and having at least 3 years experience in the design and construction of temporary excavation support and protection systems, who will design and specify the sequence of construction of the temporary excavation support and protection of system.

VI. MEASUREMENT AND PAYMENT - Lump Sum.

This item will be measured and paid for in a proportionate manner, designated by the Department.

If an acceptable open cut excavation is provided in lieu of the temporary excavation support indicated, payment will be made for the as-bid lump sum temporary excavation support item, but no additional payment will be made for any class of excavation, structure backfill or additional shoring as a result of the open cut excavation or to restore the facilities to their original condition.

Project Specific Details

The Soil Parameters as indicated in III. (c) 1. are:

- 1.a Effective angle of friction: (fill in here)
- 1.b Moist unit weight of soil: (fill in here)
- 1.c Saturated unit weight of soil: (fill in here)
- 1.d Effective cohesion: (fill in here)
- 1.e Static groundwater level at elevation: (fill in here)
- 1.f Undrained shear strength of cohesive soil: (fill in here)
- 1.g shear strength of rock mass: (fill in here)

Audit Information

Created By	Created On	Modified By	Modified On
Dawn M Davenport/PennDOT	11/07/2007 02:41:33 PM	Corelle L Dozier/PennDOT	01/17/2012 11:16:01 AM

You are currently logged in as **Anonymous**.

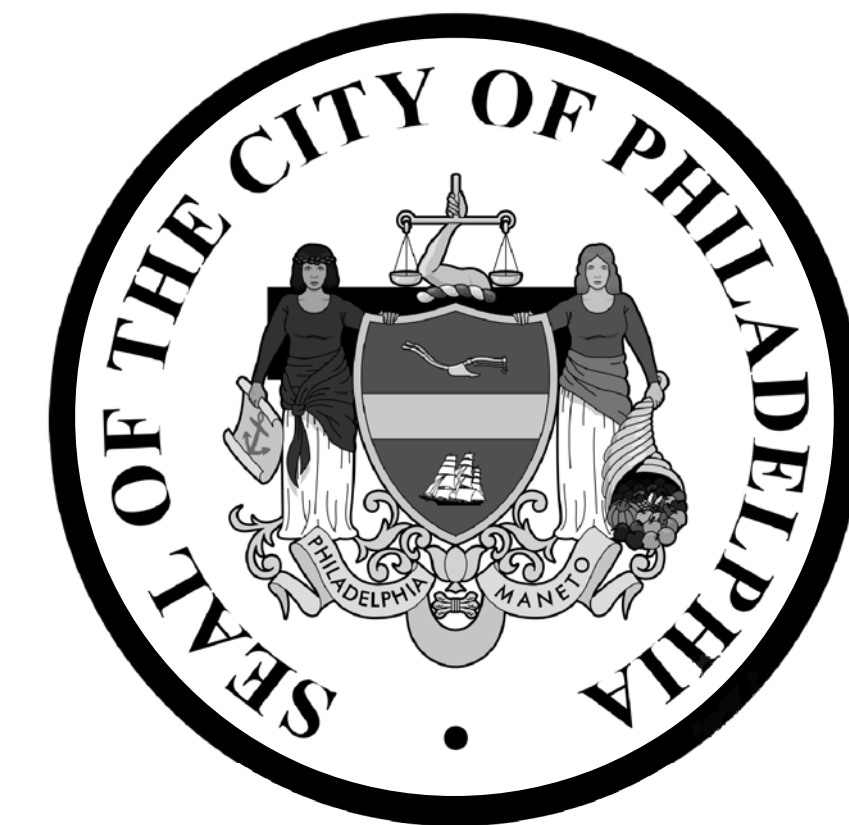
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Tue Dec 02 13:41:22 EST 2014
Official ECMS Date/Time

FILE NAME: p:\gfiles\pw\ben\lev.com\gfiles\pw\01\Documents\Projects\66357_W010\Drawings\66357_W010_ROAD-TITLE.dgn PLOTTED: \$date\$ \$time\$

DISTRICT	COUNTY	CITY	ROUTE	SECTION	TOTAL SHEETS
6-0	PHILADELPHIA	PHILADELPHIA	--	--	27



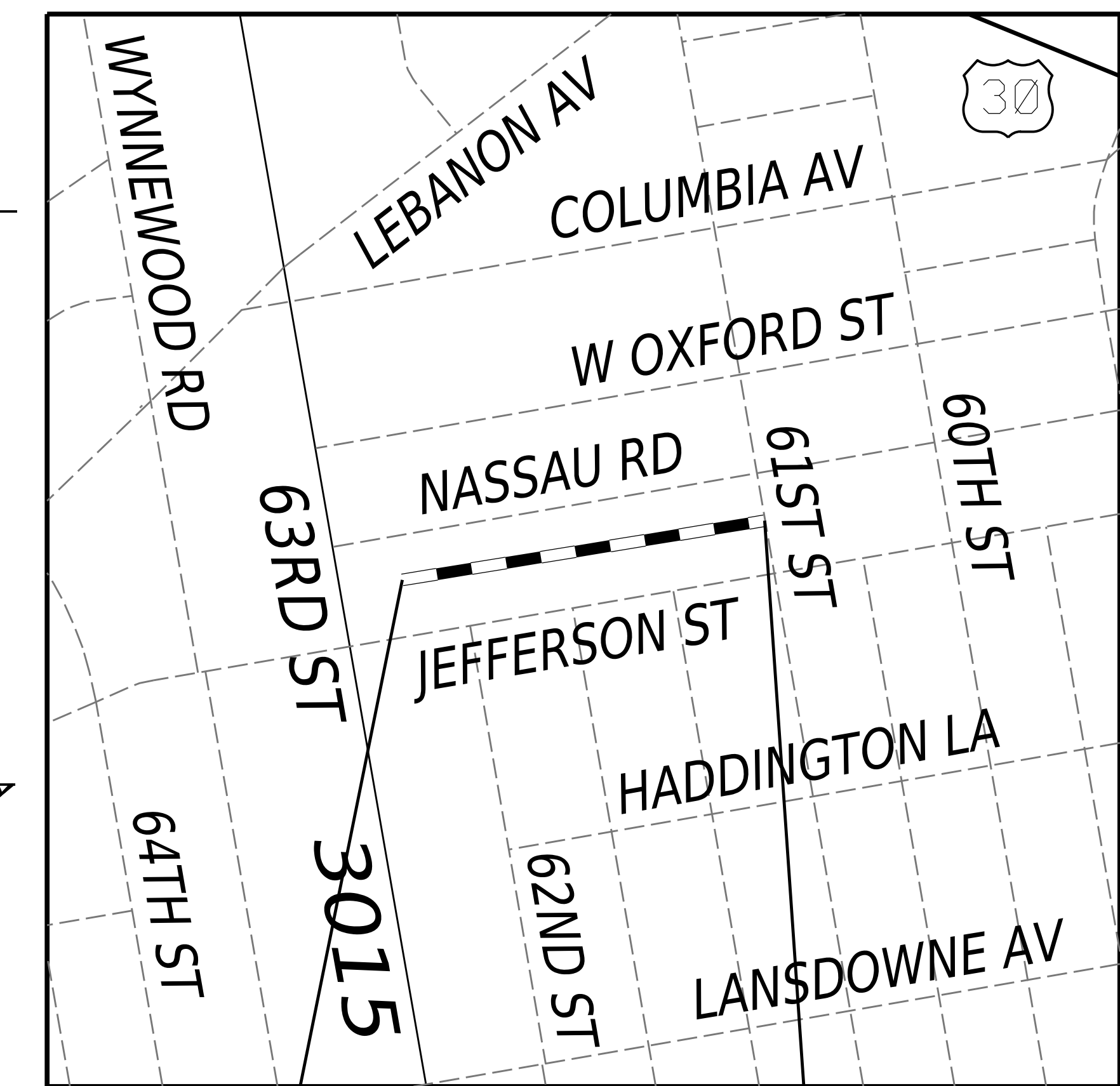
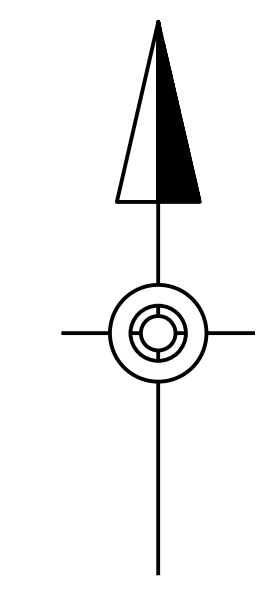
CITY OF PHILADELPHIA
OFFICE OF TRANSPORTATION,
INFRASTRUCTURE & SUSTAINABILITY

DRAWINGS
FOR THE
CONSTRUCTION
OF

**ALLEY RETAINING WALL 7-038
BETWEEN 61ST STREET & JEFFERSON STREET
AND 63RD STREET & NASSAU ROAD**

IN THE CITY OF PHILADELPHIA
PHILADELPHIA COUNTY

FROM STA 0+00.00 TO STA 8+29.37 LENGTH 820.00 FT 0.155 MI



LIMIT OF WORK
STA 8+29.37
WALL 7-038
CITY OF PHILADELPHIA
PHILADELPHIA COUNTY

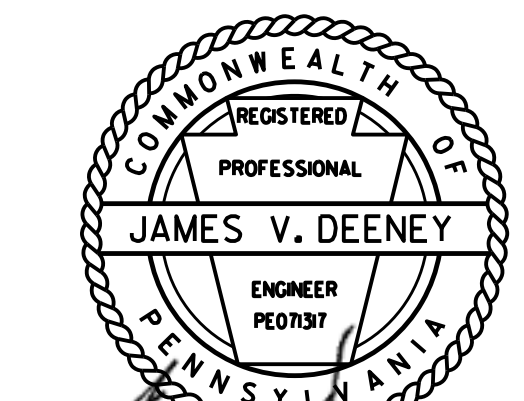
LOCATION MAP
0 300 FT 1000 FT
SCALE

LIMIT OF WORK
STA 0+00.00
WALL 7-038
CITY OF PHILADELPHIA
PHILADELPHIA COUNTY

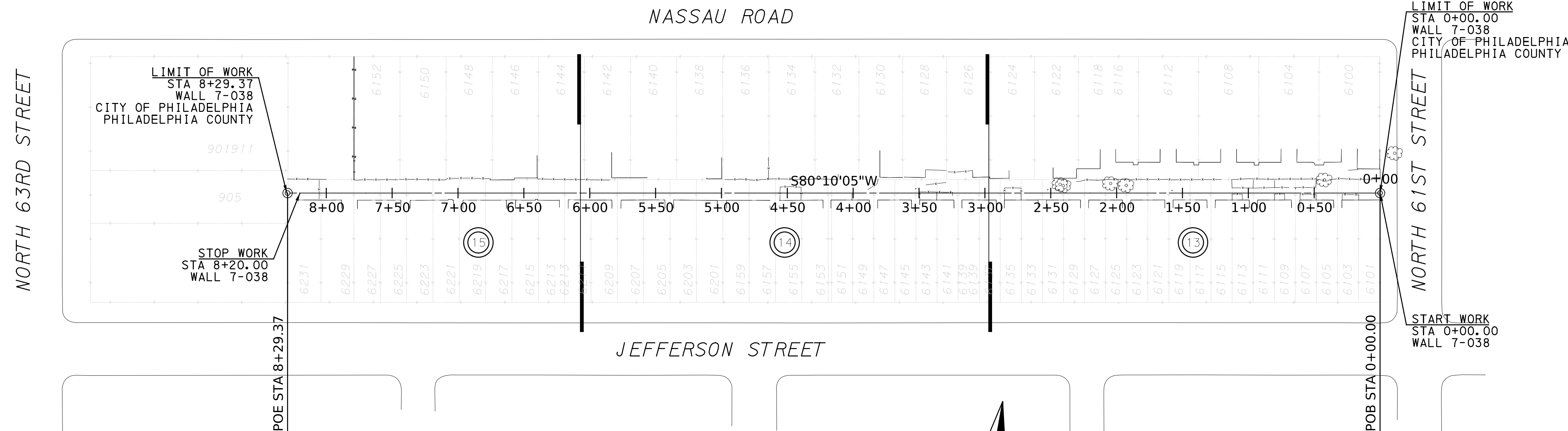
SCALE



PREPARED BY:
GANNETT FLEMING, INC.
VALLEY FORGE, PA



DATE
DECEMBER 11, 2024



LEGEND

⊙ E&S PLAN SHEET

INDEX MAP



LIST OF PUBLIC UTILITIES

SYMBOL	OWNER	ADDRESS	REPRESENTATIVE	TELEPHONE
— S — — W —	CITY OF PHILADELPHIA WATER DEPARTMENT (PWD)	1101 MARKET STREET 5TH FLOOR ARA TOWER PHILADELPHIA, PA 19107	MICHAEL BENKO	(215) 685-6278
— E — — EU —	PECO ENERGY COMPANY	1050 W SWEDSFORD ROAD BERWYN, PA 19312	PETE DETTLING	(215) 841-6151
— T —	COMCAST COMMUNICATIONS	190 SHOEMAKER ROAD POTTSTOWN, PA 19464	DARREN MARSTELLER	(717) 405-4280
— T —	VERIZON PENNSYLVANIA, LLC	15 MONTGOMERY PLACE, FLOOR 2 PITTSBURGH, PA 15212	ANTHONY PORTOLESE	(215) 351-6051
— G —	PHILADELPHIA GAS WORKS	800 W. MONTGOMERY AVENUE PHILADELPHIA, PA 19122-2898	KEVIN DIEP	(215) 684-6235

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC. PHONE 1-800-242-1776, SERIAL NO. 20211340701.

SHEET INDEX BLOCK	
DESCRIPTION	SHEET(S)
TITLE SHEET	1
INDEX MAP, SHEET INDEX, AND INFORMATION SHEET	2
GENERAL NOTES & STRUCTURAL NOTES	3
QUANTITIES SUMMARY	4
ALLEY SIDEWALK TYPICAL SECTIONS & DETAILS	5-8
EROSION & SEDIMENT CONTROL DETAILS	9
EROSION & SEDIMENT CONTROL NOTES	10-12
EROSION & SEDIMENT CONTROL PLAN	13-15
RETAINING WALL GENERAL PLAN & ELEVATION	16-18
RETAINING WALL REINFORCEMENT PLAN	19-21
DEMOLITION PLAN	22
EXCAVATION DETAILS	23
RETAINING WALL TYPICAL SECTIONS	24-25
MISCELLANEOUS DETAILS	26-27

EARTHWORK SUMMARY ENTIRE PROJECT

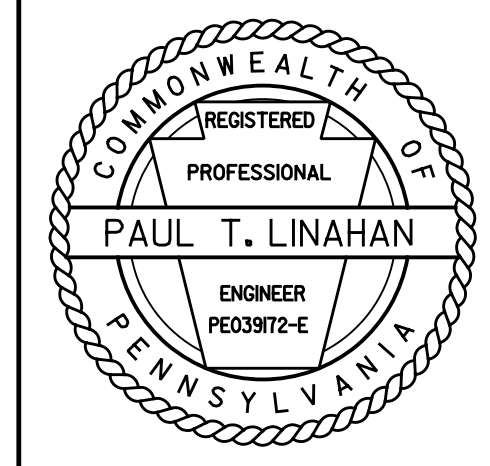
THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS

CUBIC YARDS OF EXCAVATION		CUBIC YARDS OF COMPLETED EMBANKMENT	CUBIC YARDS OF BORROW EXCAVATION	CUBIC YARDS OF SELECT BORROW	CUBIC YARDS OF WASTE
CLASS 3					
1510		33	0	0	1477

SUMMARY OF PROJECT COORDINATES					
BASED ON THE PA STATE PLANE COORDINATE SYSTEM - SOUTH ZONE NAD 83 (2011)					
RTE	STATION	POINT	NORTH	EAST	BEARING
WALL 7-038 SURVEY & CONSTR	0+00.00	POB	2671118.73	245191.93	S 80°10'05" W
	8+29.37	POE	2670301.54	245050.31	

NOTE: FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY PRECISION BEYOND TWO DECIMAL PLACES.

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
INDEX MAP, SHEET INDEX, AND INFORMATION SHEET		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 2 OF 27

GENERAL NOTES

ALL PROJECT MEASUREMENTS ARE U.S. SURVEY FOOT. TO CONVERT TO CITY OF PHILADELPHIA DISTRICT STANDARDS, A FACTOR OF 0.99858 IS TO BE USED. THAT IS 100.00 FEET UNITED STATES STANDARD (USS) EQUALS 99.858 FEET PHILADELPHIA DISTRICT STANDARD (PDS).

THIS PROJECT FALLS UNDER PHILADELPHIA SURVEY DISTRICT 7. CONTACT INFORMATION FOR THIS SURVEY DISTRICT IS:

LEE GEISLER
6448 WOODLAND AVENUE
PHILADELPHIA, PA 19142
PHONE: 215-685-2668, 2669
FAX: 215-685-2661

HORIZONTAL CONTROL IS IN FEET AND BASED UPON THE PROJECT COORDINATE SYSTEM. THE SCALE FACTOR FOR THE PROJECT COORDINATE SYSTEM IS 0.998579033. THE HORIZONTAL DATUM FOR POINTS SHOWN ON THIS PLAN IS NAD83 (2011) PA STATE PLANE SOUTH US SURVEY FEET.

THE VERTICAL DATUM FOR ELEVATIONS SHOWN ON THIS PLAN IS CITY OF PHILADELPHIA. THE VERTICAL BENCHMARK (BM #911) FOR THIS PROJECT IS ELEVATION 221.33 FEET AT A CHEVRON CUT INTO THE S/W CORNER OF THE SECOND CONCRETE STEP LOCATED ALONG THE EAST SIDE OF 63RD STREET, APPROXIMATELY 66 FEET SOUTH OF THE NASSAU ROAD SOUTHERN CURB LINE.

ALL UNDERGROUND UTILITIES ARE BASED ON INFORMATION OBTAINED FROM PA ONE CALL, SITE PAINT MARKINGS FOUND IN FIELD AND UTILITY COMPANY RECORDS. THE ACCURACY REGARDING LOCATION AND/OR DEPTH OF UTILITIES CANNOT BE GUARANTEED. PRIOR TO ANY DIGGING, TRENCHING OR OTHER EARTHMOVING ACTIVITIES, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE. FOR INFORMATION REGARDING UTILITIES, CONSULT PENNSYLVANIA ONE CALL 1-800-242-1776.

TOPOGRAPHIC INFORMATION WAS FIELD LOCATED BY GANNETT FLEMING, INC. DURING THE MONTH OF NOVEMBER 2022.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX, OR POLICE CALL BOX.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, FOR PHILADELPHIA, SERIAL NO. 20211340701.

WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF PHILADELPHIA DEPARTMENT OF STREETS STANDARD SPECIFICATIONS, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 72M AND 408, APPROVED DRAWINGS, AND REGULATIONS OF THE DEPARTMENT OF STREETS, PHILADELPHIA WATER DEPARTMENT, AND SPECIAL PROVISIONS OF THE PROJECT.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO BUILDINGS AND SITES WITHIN OR ADJACENT TO THE PROJECT AREA.

EXISTING STREETS, STREET FURNITURE AND OTHER IMPROVEMENTS ARE TO BE PROTECTED AND MAINTAINED DURING CONSTRUCTION UNLESS INDICATED TO BE REMOVED IN THE PLANS. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.

AT THE LIMITS OF CURB AND FOOTWAY WORK, MATCH TOP OF CURB AND FOOTWAY ELEVATIONS AT THE NEAREST JOINT. ALL NEW CONCRETE SIDEWALK PAVING TO BE INSTALLED TO THE FIRST CONTROL JOINT, UNLESS OTHERWISE NOTED ON THE PLAN.

ALL CONTRACTORS WORKING ON THIS PROJECT SHALL BE RESPONSIBLE FOR INSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.

UNLESS OTHERWISE NOTED, ALL EXISTING UTILITY POLES, FIRE HYDRANTS, GATEWAY POLES, ETC. ARE TO REMAIN AND ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2020 CHANGE NO. 8 (PUB 408/2020-8)

THE EXISTING GARAGES AND METAL DECKS MAY CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS (LABORATORY TESTING WAS NOT CONDUCTED). FOR THE PURPOSE OF BIDDING, THE CONTRACTOR IS TO ASSUME THAT THE GARAGES AND METAL DECKS CONTAIN LEAD-BASED PAINT AND OTHER TOXIC MATERIALS.

REFER TO SPECIAL PROVISION FOR DEMOLITION AND REMOVAL OF THE EXISTING DECKS, GARAGES, AND RETAINING WALL.

DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING PENNDOT STANDARD DRAWINGS:

RC-10M - JUN. 1, 2010	BC-735M - SEPT. 30, 2016
RC-11M - JUN. 1, 2010	BC-736M - NOV. 23, 2022
RC-12M - NOV. 1, 2022	BC-751M - JAN. 31, 2019
RC-13M - JUN. 1, 2010	BC-788M - NOV. 23, 2022
RC-20M - NOV. 1, 2022	
RC-28M - SEPT. 1, 2023	
RC-30M - FEB. 27, 2023	
RC-60M - JUN. 1, 2010	
RC-64M - FEB. 19, 2021	
RC-67M - FEB. 19, 2021	
RC-70M - FEB. 8, 2019	
RC-72M - FEB. 8, 2019	
RC-75M - JUN. 1, 2010	

STRUCTURE NOTES

DESIGN SPECIFICATIONS:

- PHILADELPHIA BUILDING CODE 2018
- CITY OF PHILADELPHIA CODES AND ORDINANCES
- INTERNATIONAL BUILDING CODE 2018.
- ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION.
- ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND MASONRY.
- DESIGN LOADS: 2 FT LIVE LOAD SURCHARGE (FINAL CONDITION).

CONSTRUCTION SPECIFICATIONS:

- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PENNDOT PUBLICATION 408/2020, SPECIAL PROVISIONS AND CONTRACT SPECIAL PROVISIONS.

GENERAL:

- VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
- UNLESS OTHERWISE INDICATED ON THE PLANS, PROVIDE THE MINIMUM CLEAR COVER FOR REINFORCEMENT AS FOLLOWS:

FRONT FACE OF WALL ABOVE FOOTING	2"
REAR FACE OF WALL ABOVE FOOTING	3"
TOP OF FOOTING	3"
BOTTOM OF FOOTING	4"

- USE CLASS A CEMENT CONCRETE IN WALL, FOOTINGS, AND ANCHOR SUPPORTS. A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE CITY.
- CHAMFER EXPOSED CONCRETE EDGES 1 INCH BY 1 INCH, EXCEPT AS NOTED.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- DO NOT CONSIDER ANY DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE BY THE CITY OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT WILL BE ENCOUNTERED IN THE FIELD.
- THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT EXISTING INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED.
- USE CARE WHEN PERFORMING WORK IN THE VICINITY OF THE PROPOSED ALLEY WALL. REPAIR OR REPLACE ANY DAMAGE TO THE EXISTING FEATURES BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
- PROVIDE CONCRETE TESTING AS PER PENNDOT PUB 408, SECTIONS 0704 AND 1001.
- ALL CONCRETE WORK FOR RETAINING WALL AND FOOTING TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE ACI BUILDING CODE (ACI 318), ACI DETAILING MANUAL (ACI 315), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- FOR DESIGN PURPOSES, UNIT WEIGHT OF CONCRETE = 150PCF
- TERMINATE ALL CONCRETE POURS BY USE OF FORMS.
- SUBMIT PLAN SHOWING POUR SEQUENCE, INCLUDING TYPE AND LOCATION OF PROPOSED JOINTS IN WALLS FOR APPROVAL.
- SUBMIT CONCRETE MIX TO THE CITY OF PHILADELPHIA FOR REVIEW AND ACCEPTANCE PRIOR TO PRODUCTION. PERFORM TRIAL BATCH MIXES SAMPLING FOR MATERIAL TESTING TO ENSURE SATISFACTORY PERFORMANCE.
- PROVIDE GRADE 60 EPOXY REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615, A 996/A 996M OR A 706/A 706M. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN FOOTINGS OR WHERE BENDING OF THE REINFORCEMENT IS INDICATED.
- WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.
- ALL 90 DEGREE AND 180 DEGREE REINFORCEMENT HOOKS SHOWN ARE TO FOLLOW STANDARD HOOK DIMENSIONS.
- MAXIMUM LENGTH OF REINFORCEMENT TO BE 40' - 0".
- LAP REINFORCING BARS AS FOLLOWS:

#4 BARS:	2' - 2" MINIMUM
#5 BARS:	2' - 9" MINIMUM
#6 BARS:	3' - 3" MINIMUM
#7 BARS:	3' - 10" MINIMUM

- SPACING FOR REINFORCEMENT IS A MAXIMUM, UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

- PROVIDE A MINIMUM 3 FEET EMBEDMENT FROM FINISHED GROUND TO BOTTOM OF FOOTING.
- PROVIDE FOOTING SUBGRADE CONSISTING OF SUITABLE SOIL WITH A BEARING PRESSURE OF 2,000 PSF. HAVE SUBGRADE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT OF PENNDOT 2A AGGREGATE.
- ALL EXPOSED FOOTING SUBGRADES ARE TO BE COMPACTED BY TWO PASSES WITH A JUMPING JACK COMPACTOR OR SIMILAR COMPACTION EQUIPMENT IMMEDIATELY PRIOR TO THE PLACEMENT OF PENNDOT 2A AGGREGATE.
- PROVIDE A MINIMUM OF 12 INCHES OF PENNDOT 2A AGGREGATE BELOW ALL FOUNDATIONS.
- PROVIDE TEMPORARY EXCAVATION SUPPORT, WHERE INDICATED ON THE PLANS, OR WHERE EXCAVATION SUPPORT IS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY NECESSARY TEMPORARY EXCAVATION SUPPORT SYSTEMS. ALL EXCAVATION SUPPORT DESIGN SHOULD CONFORM TO THE CURRENT AASHTO AND PENNDOT STANDARDS. SEE SPECIFICATION ITEM 9203-0101 FOR ADDITIONAL REQUIREMENTS.
- ALL EXCAVATIONS SHOULD CONFORM TO THE CURRENT OSHA AND OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND DESIGN STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE STABILITY OF THE EXCAVATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING TECHNIQUES SUCH AS SUMP PUMPS, ETC. TO KEEP THE BOTTOM OF EXCAVATIONS DRY DURING CONSTRUCTION AND TO ACCOMMODATE INSPECTION OF THE FOUNDATION SUBGRADE.
- BACKFILL AND GRADE ALL EXCAVATIONS AS SOON AS POSSIBLE TO PREVENT STORMWATER PONDING AND CONCENTRATED FLOW FROM ENTERING EXCAVATIONS. DIRECT WATER FLOW AWAY FROM THE EXCAVATIONS AND KEEP THE EXCAVATIONS DRY WITH PUMPS, AS REQUIRED. IF NECESSARY, CONSTRUCT SMALL DIKES ALONG THE TOP OF THE EXCAVATIONS TO DIRECT STORMWATER AWAY.
- REMOVE EXISTING SUBSTRUCTURES AND FOUNDATIONS THAT INTERFERE WITH THE CONSTRUCTION OF THE PROPOSED FOUNDATIONS IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1018.

ADDITIONAL NOTES

STRUCTURAL STEEL:

- ALL STEEL SHAPES AND PLATES FOR NEW METAL LANDINGS AND STAIRS SHALL CONFORM TO ASTM A36 GRADE 36 OR ASTM A709 GRADE 50 & SECTION 1105. MAINTAIN SAME STEEL MATERIAL FOR ALL STEEL SHAPES AND PLATES FOR NEW METAL LANDINGS AND STAIRS.
- ALL BOLTS TO BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A 307 GRADE A OR B, UNLESS OTHERWISE NOTED. ALL NUTS TO CONFORM TO ASTM A563 GRADE DH OR ASTM A194 GRADE 2H.

AESTHETICS/FORMLINER:

- IT IS IMPORTANT THAT A UNIFORM AND ALIGNED, CONTINUOUS PATTERN BE ESTABLISHED FOR THE LENGTH OF EACH CONTINUOUS CONCRETE SURFACE. CARRY UNIFORM HORIZONTAL LINES THROUGHOUT ON THE FRONT FACE OF THE WALL. USE UNIFORM SQUARE FORMLINER PANELS THROUGHOUT THE PROJECT EXCEPT AND PARTIAL WIDTH PANELS AT WALLS JOINTS. TO ACCOMPLISH THIS, PREPARE COMPLETE LAYOUT DRAWINGS SHOWING THE PANEL ARRANGEMENT. INDICATE THE SEQUENCE OF CONCRETE POURS. THE LAYOUT DRAWINGS SUBJECT TO APPROVAL BY THE ENGINEER.

GROUNDWATER:

- PROVIDE POSITIVELY DRAINED SEEPAGE ZONES TO INTERCEPT THE EXCAVATION SLOPE OR THE WALL FOUNDATION AREA BY PROVIDING ADDITIONAL UNDERDRAIN AND UNDERDRAIN FILTER MATERIAL AT THE SEEPAGE ZONE.
- DO NOT ALLOW SURFACE WATER TO ACCUMULATE AND/OR POND IN EXCAVATIONS. INSTALL A TEMPORARY DEWATERING SYSTEM TO BE USED DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE.

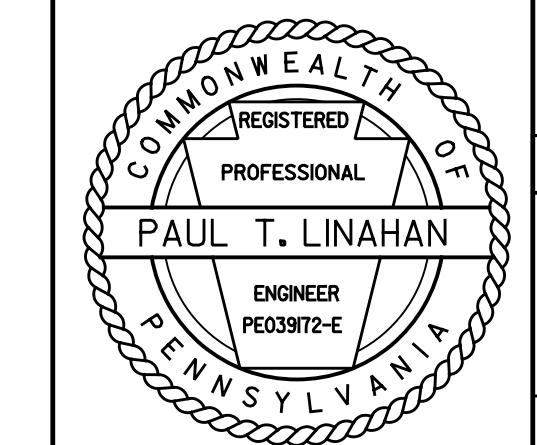
WALL BACKFILL:

- USE SELECTED BORROW EXCAVATION FOR STRUCTURE BACKFILL PER PENNDOT PUB 408 SECTION 205.2 FOR BACKFILL BEHIND RETAINING WALL.

WALL CONSTRUCTION:

- WALL CONSTRUCTION AT ALL STAGES TO BE TRUE TO LINE AND GRADE. CORRECT ANY DEVIATION FROM LINE AND GRADE WHICH IS EITHER DANGEROUS TO STABILITY OR DETRACTS FROM THE APPEARANCE OF THE WALL AT NO ADDITIONAL COST TO THE CITY.

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
GENERAL NOTES & STRUCTURAL NOTES		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 3 OF 27

SUMMARY OF ITEMS AND QUANTITY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
0201-0001	1	LS	CLEARING AND GRUBBING*
0608-0001	1	LS	MOBILIZATION
4609-0002	1	LS	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B
0609-0009	1	LS	EQUIPMENT PACKAGE *
0676-0001	530	SY	PLAIN CEMENT CONCRETE SIDEWALK
4686-0050	1	LS	CONSTRUCTION SURVEYING, TYPE D PHL STD *
0688-0002	1	LS	MICROCOMPUTER WITH BATTERY BACKUP SYSTEM, TYPE B
0689-0005	1	LS	CPM SCHEDULE, WITH UPDATES
0802-0001	25	CY	TOPSOIL FURNISHED AND PLACED
0804-0001	10	LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING MULCH
0845-0001	10000	DOLLAR	UNFORESEEN WATER POLLUTION CONTROL
0855-0003	1	EACH	PUMPED WATER FILTER BAG
0855-0004	1	EACH	REPLACEMENT PUMPED WATER FILTER BAG
0901-0001	1	LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION *
8610-0001	1	LS	REINFORCED CONCRETE RETAINING WALL, AS DESIGNED, WALL 7-038 (1)*
(1)	222	CY	SUBBASE (NO. 2A)
(1)	235	SY	MEMBRANE WATERPROOFING SYSTEM INSTALLED ON OTHER SURFACES
(1)	1510	CY	CLASS 3 EXCAVATION
(1)	636	CY	CLASS A CEMENT CONCRETE
(1)	72292	LB	REINFORCEMENT BARS, EPOXY COATED
(1)	6025	SF	ARCHITECTURAL SURFACE TREATMENT *
(1)	21	CY	NO. 57 COARSE AGGREGATE (3)
(1)	955	CY	SELECTED BORROW EXCAVATION, STRUCTURE BACKFILL
(1)	26	LF	4" PVC PIPE (SCHEDULE 40)
9000-0001	3	EA	COMPOST SOCK WASHOUT *
9000-0002	932	LF	SAWCUT FOOTWAY *
9000-0003	125000	DOLLAR	PRE-CONSTRUCTION SURVEY AND REPAIRS TO DRIVEWAYS, APRONS, SIDEWALKS, AND CURBS *
9000-0004	56	LF	ALLEY AERIAL SERVICE WIRE *
9000-0005	4	EACH	ALLEY AERIAL SERVICE CONNECTION *
9000-0006	4	EACH	REMOVAL, FURNISH AND INSTALL ALLEY POLE AND LUMINAIRE IN WALKING ALLEY *
9000-0007	1	LS	DESIGN AND CONSTRUCTION OF METAL RAILING *
9000-0008	1	LS	CHEEK WALL *
9000-0009	86	LF	CHAIN LINK FENCE, 4 FEET HIGH *
9000-0010	335	LF	CHAIN LINK FENCE, 6 FEET HIGH *
9000-0011	171	LF	WEIGHTED SEDIMENT FILTER TUBE, 20" DIAMETER *
9000-0012	448	CY	REMOVAL OF EXISTING STONE MASONRY WALL *
9000-0013	1	LS	REMOVAL AND RECONSTRUCTION OF EXISTING TIMBER DECKS AND STAIRS *
9000-0014	1	LS	REMOVAL AND RECONSTRUCTION OF EXISTING METAL LANDINGS AND STAIRS *
9000-0015	1	LS	REMOVAL OF GARAGE, 6122 NASSAU ROAD *
9000-0016	1	LS	REMOVAL OF GARAGE, 6124 NASSAU ROAD *
9000-0017	1	LS	REMOVAL OF GARAGE, 6126 NASSAU ROAD *
9000-0018	1	LS	REMOVAL OF GARAGE, 6128 NASSAU ROAD *
9000-0019	1	LS	REMOVAL OF GARAGE, 6130 NASSAU ROAD *
9000-0020	1	LS	REMOVAL OF GARAGE, 6132 NASSAU ROAD *
9000-0021	1	LS	REMOVAL OF GARAGE, 6134 NASSAU ROAD *
9000-0022	1	LS	REMOVAL OF GARAGE, 6138 NASSAU ROAD *
9000-0023	1	LS	REMOVAL OF GARAGE, 6140 NASSAU ROAD *
9000-0024	1	LS	REMOVAL OF GARAGE, 6142 NASSAU ROAD *
9000-0025	1	LS	REMOVAL OF GARAGE, 6146 NASSAU ROAD *
9000-0026	1	LS	DESIGN AND CONSTRUCTION OF TEMPORARY EGRESS STAIRWAY *
9000-0027	1	LS	VIBRATION AND MOVEMENT MONITORING AND CONTROL PLAN *
9000-0028	11	EACH	TEMPORARY STORAGE PODS *
9000-0029	50000	DOLLAR	UNFORSEEN REPAIRS*
9000-0030	642	LF	6' WHITE VINYL FENCE*
9203-0101	1	LS	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM *
9860-0001	4	EACH	COMPOST SOCK INLET PROTECTION FOR PWD OPEN MOUTH INLET*
9901-2006	75000	DOLLAR	REIMBURSEMENT OF PGW GAS MAIN RELOCATION*

ALTERNATE STRUCTURE ITEMS			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
8610-0001	REINFORCED CONCRETE RETAINING WALL, AS DESIGNED, WALL 7-038*	LS	LUMP SUM
8610-0010	CONCRETE RETAINING WALL, WALL 7-038A (2)	LS	LUMP SUM
8622-0001	PRECAST MODULAR RETAINING WALL, WALL 7-038P (2)	LS	LUMP SUM

* SEE SPECIAL PROVISIONS

NOTES:

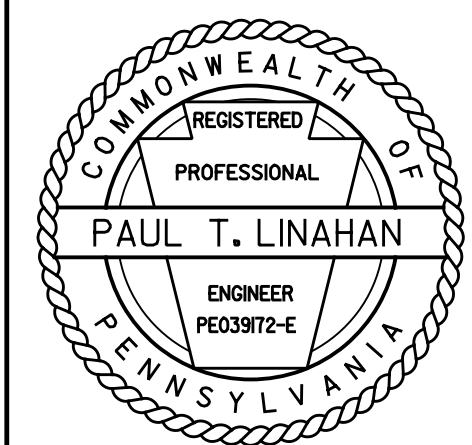
- ITEMS IN STRUCTURE AS DESIGNED LUMP SUM ITEM 8610-0001 ARE GIVEN FOR INFORMATION ONLY.
- CONTRACTOR DESIGN ALTERNATE.
- GEOTEXTILE, CLASS 1, IS INCIDENTAL TO THIS ITEM.

ADDENDUM - 2

REV	DESCRIPTION	DATE
	DELETE ITEM 4609-0002 and ITEM 0609-0009	12/2024

100% SUBMISSION: 10/24

SUBMITTED TO DEPARTMENT OF STREETS: DATE

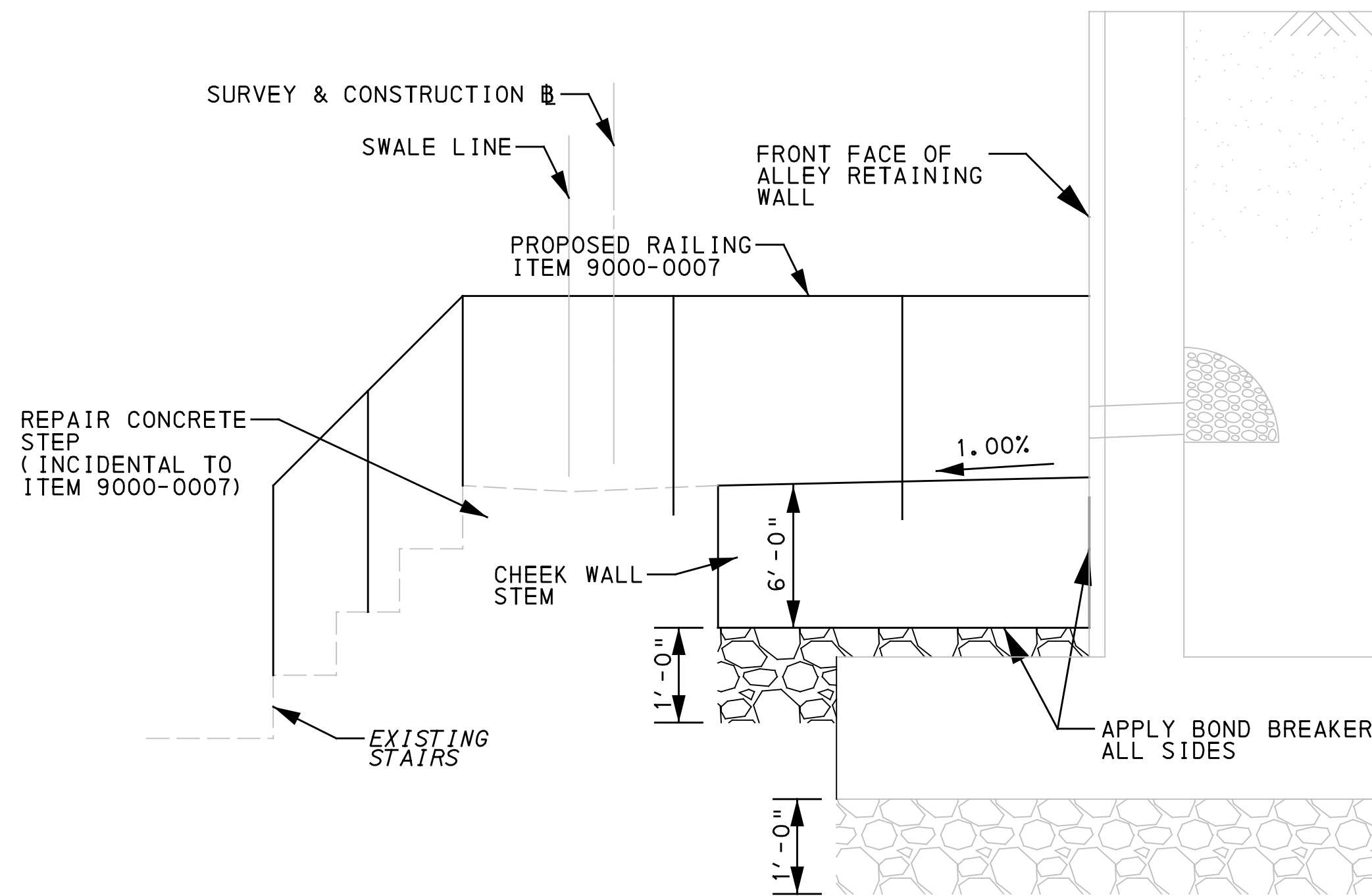


CITY OF PHILADELPHIA
OFFICE OF TRANSPORTATION,
INFRASTRUCTURE & SUSTAINABILITY

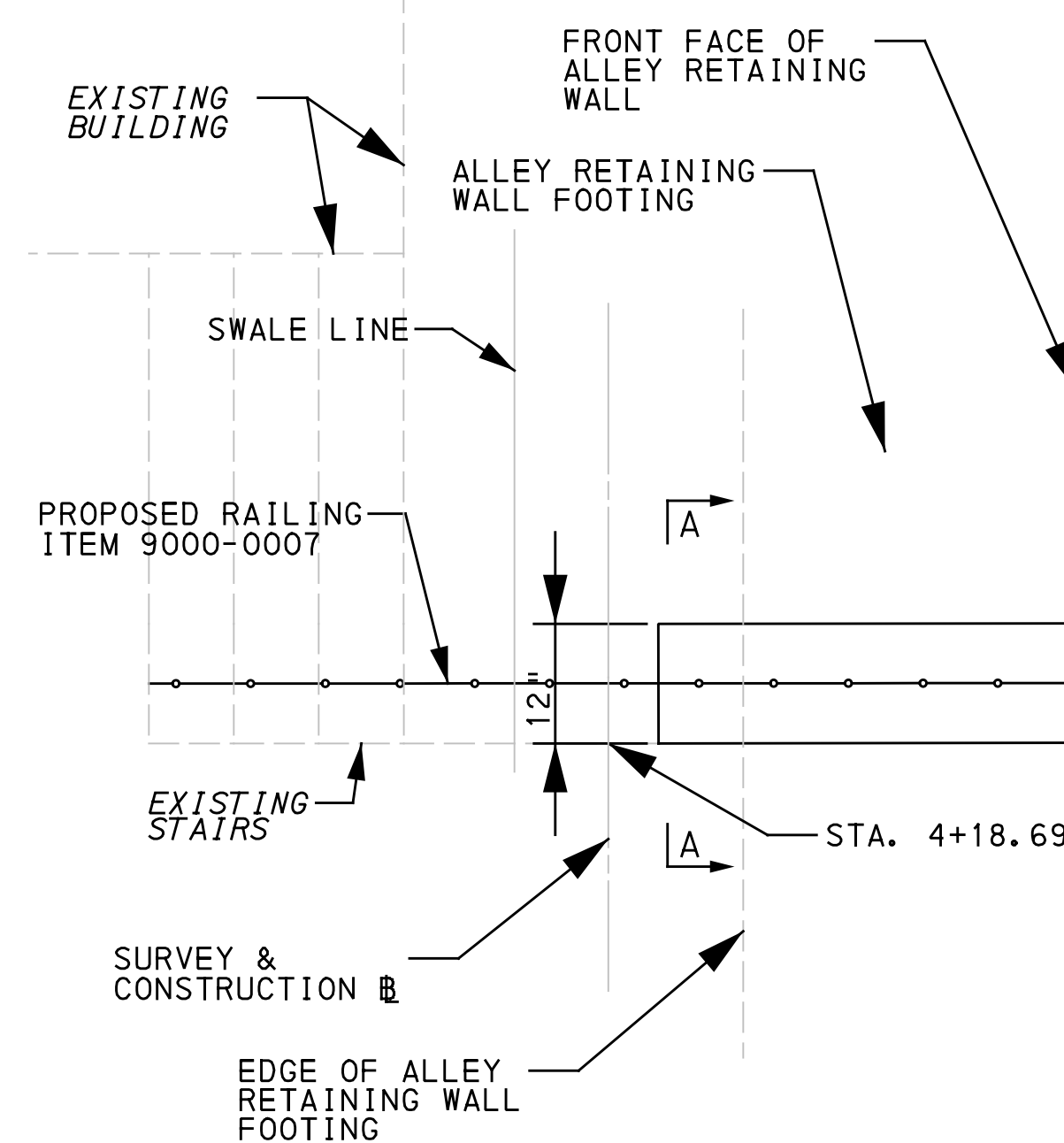
QUANTITIES SUMMARY

ALLEY RETAINING WALL 7-038
BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD
STREET & NASSAU ROAD

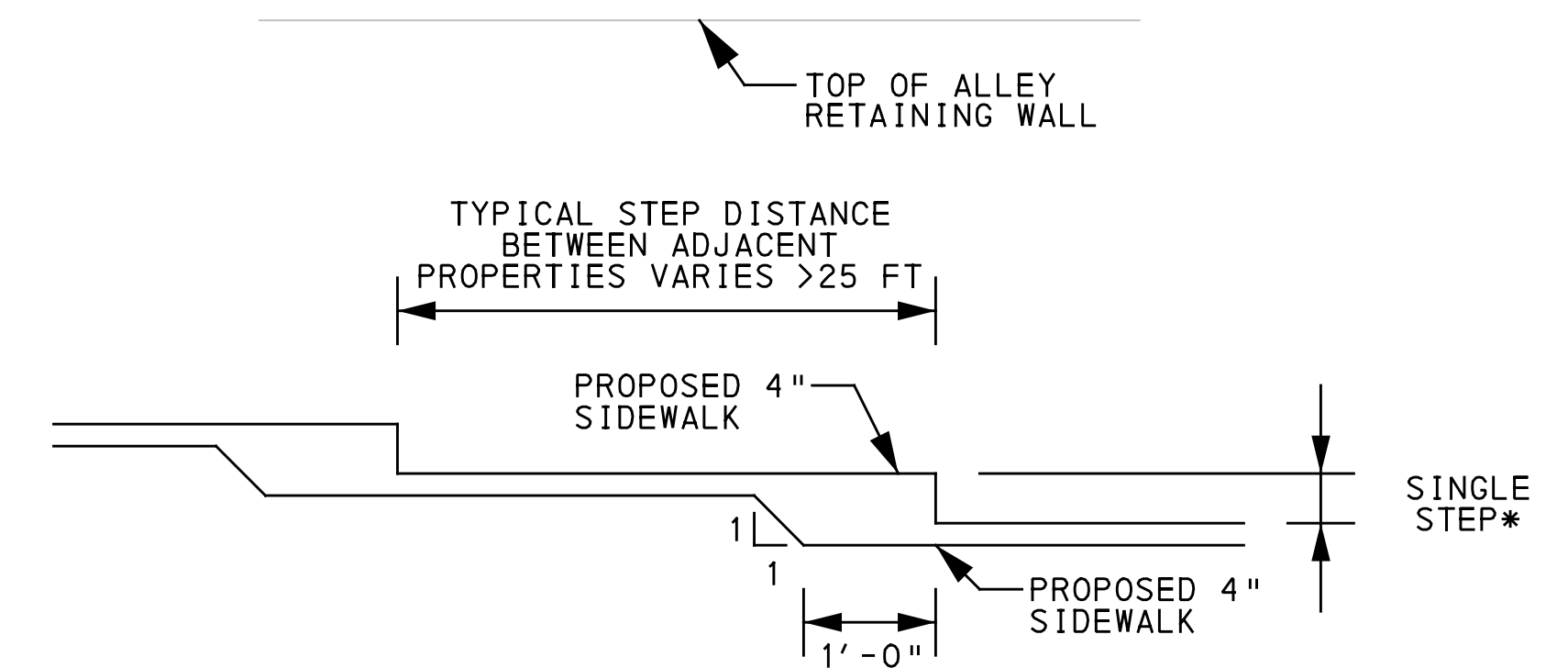
GANNETT FLEMING, INC. | SHEET 4 OF 27



TYPICAL SECTION STA. 4+18.69



PLAN VIEW

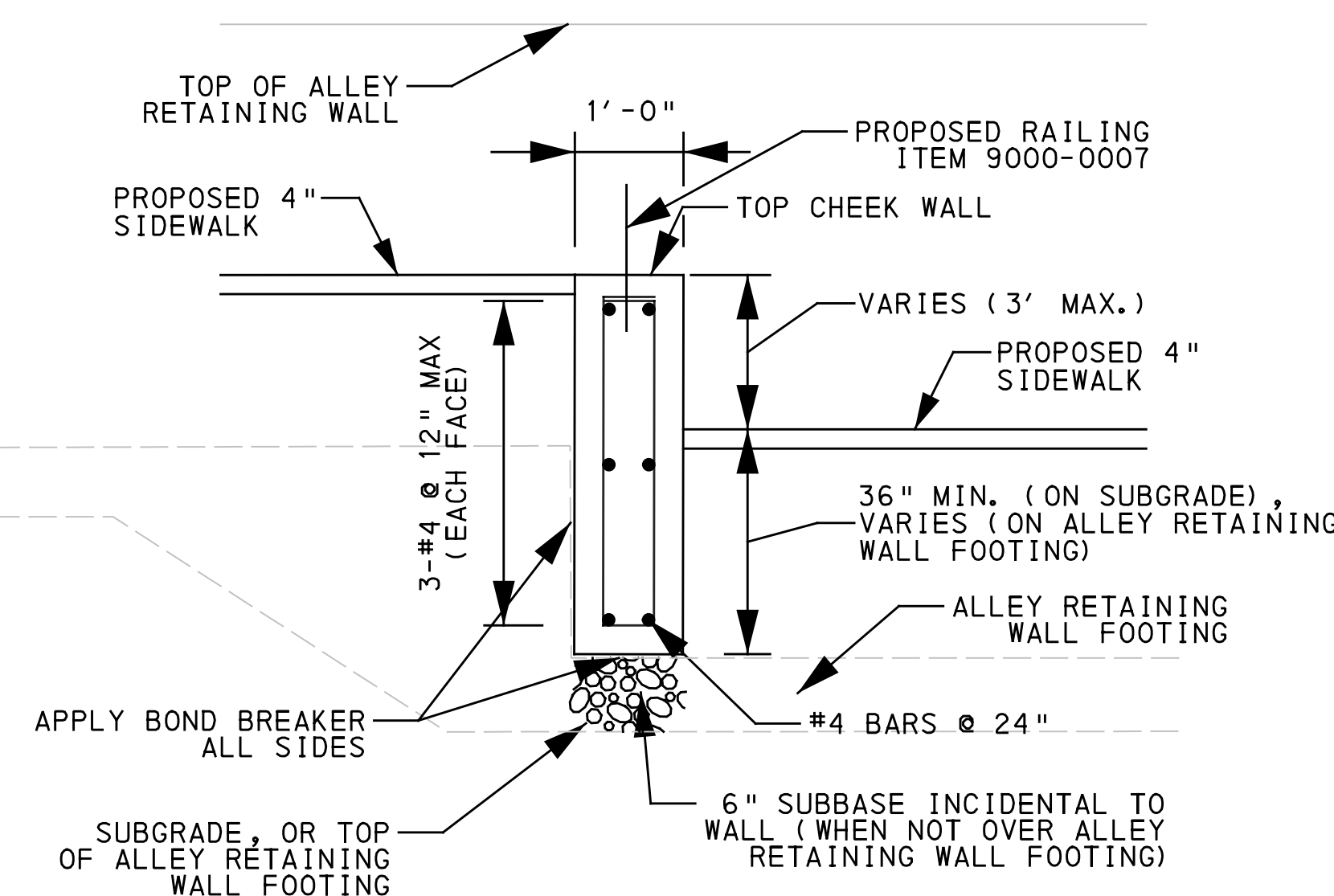


TYPICAL SECTION - MINOR SIDEWALK STEP

NOT TO SCALE

- STA. 4+18.69
- STA. 4+63.04
- STA. 5+42.90
- STA. 6+23.04
- STA. 6+62.23
- STA. 6+63.23
- STA. 7+03.33
- STA. 7+81.95

NOTE: ADDITIONAL CONCRETE FOR MINOR STEPS IS INCIDENTAL TO SIDEWALK ITEM
*SEE SHEET 7 FOR STEP ELEVATIONS



SECTION A-A
ITEM 9000-0008 - CHEEK WALL

STA. 4+18.69
NOT TO SCALE

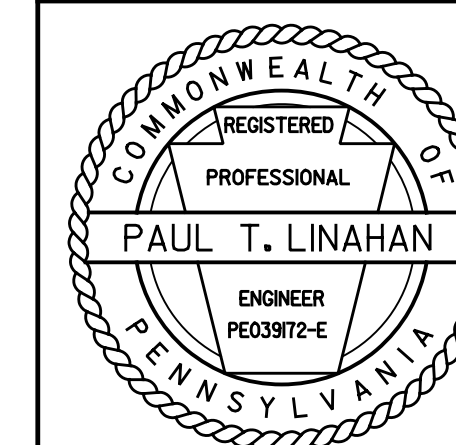
NOTES

1. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408.
2. USE CLASS A CONCRETE OR BETTER.
3. PROVIDE REINFORCEMENT, 0.12 in /Ln.Ft. IN ACCORDANCE WITH PUBLICATION 408, SECTION 709.
4. REINFORCEMENT SHOWN IS INCIDENTAL TO CHEEK WALL ITEM 9000-0008.
5. PROVIDE 2 INCH MINIMUM COVER FOR ALL REINFORCEMENT.

REV	DESCRIPTION	DATE
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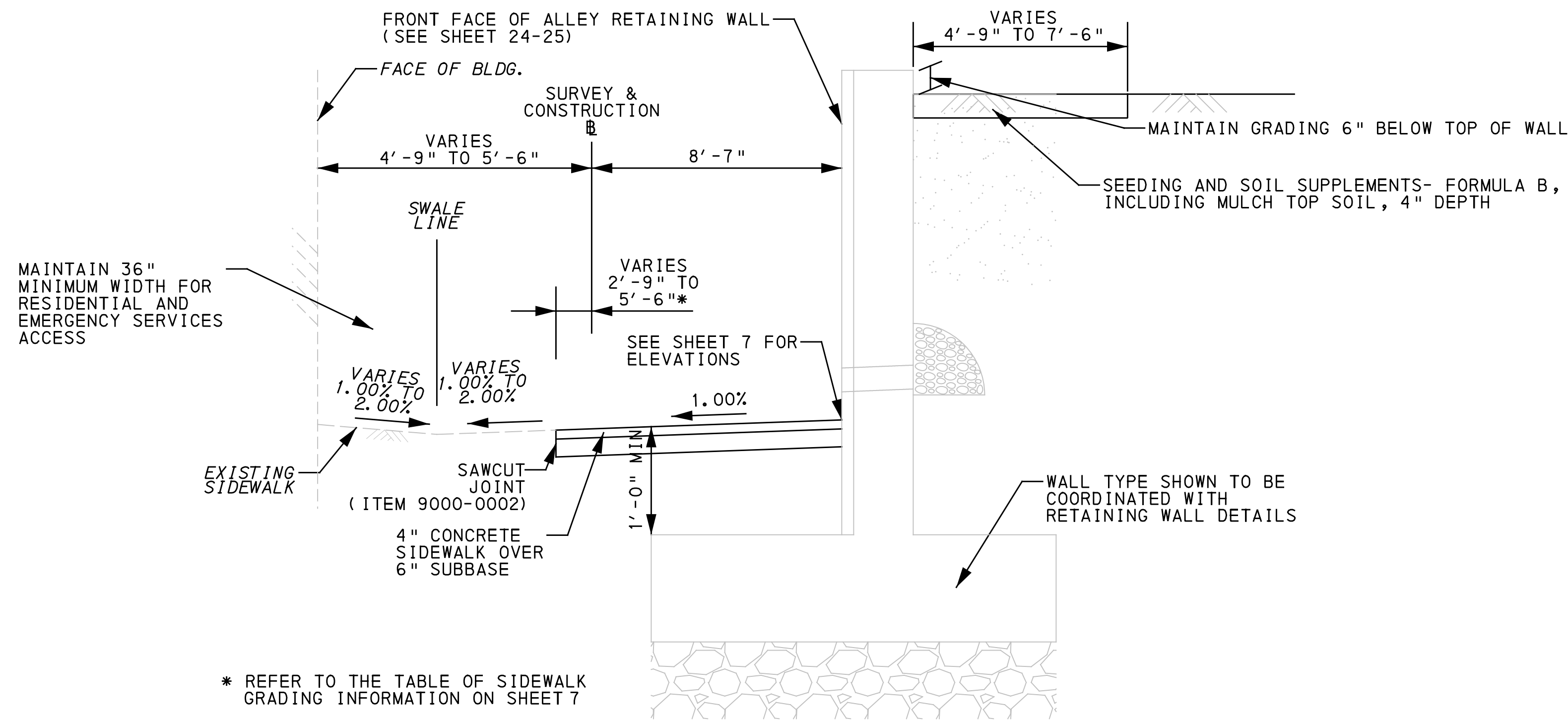
100% SUBMISSION: 10/24

SUBMITTED TO DEPARTMENT OF STREETS: DATE



CITY OF PHILADELPHIA
OFFICE OF TRANSPORTATION,
INFRASTRUCTURE & SUSTAINABILITY
ALLEY SIDEWALK TYPICAL SECTIONS & DETAILS

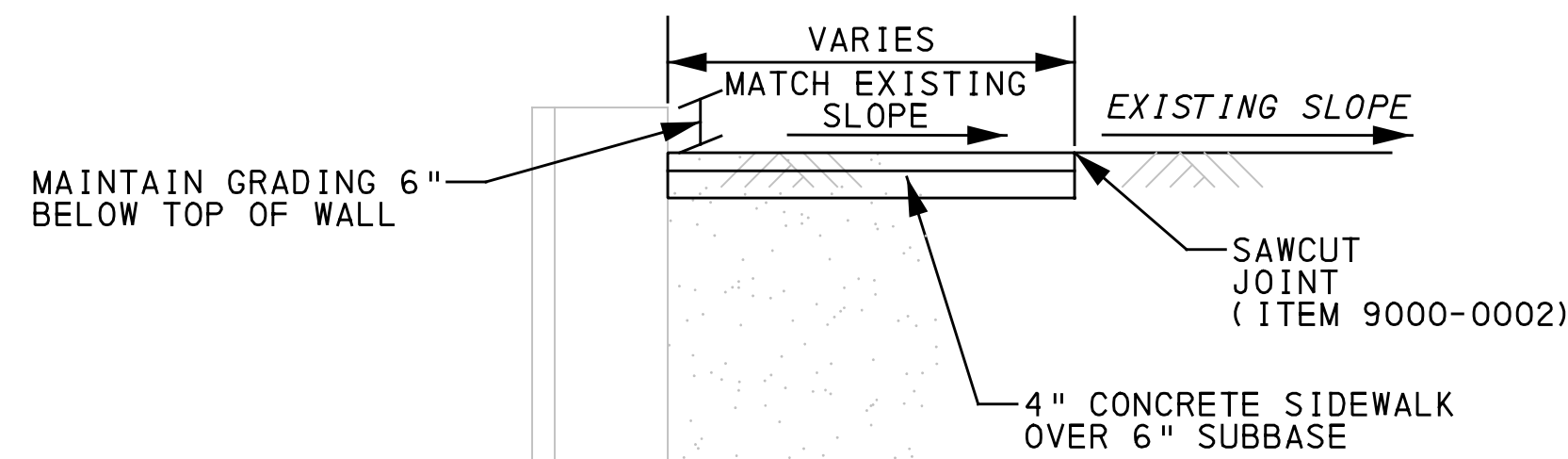
ALLEY RETAINING WALL 7-038
BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD



* REFER TO THE TABLE OF SIDEWALK GRADING INFORMATION ON SHEET 7

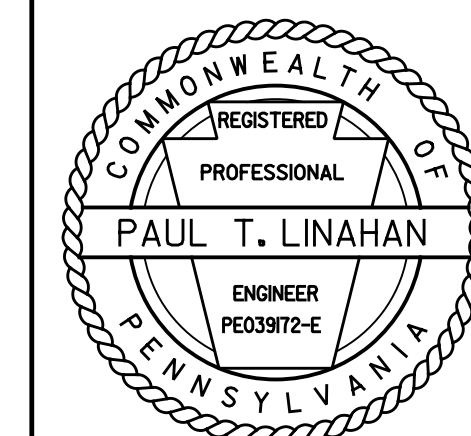
ALLEY SIDEWALK GRADING TYPICAL SECTION

STA. 0+90.00 TO 8+20.00
NOT TO SCALE



GRADING BEHIND TOP OF WALL
STA. 0+90.00 TO 2+30.00

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
ALLEY SIDEWALK TYPICAL SECTIONS & DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 6 OF 27

PLOTTED: 10/30/2024 13:40:14 PM

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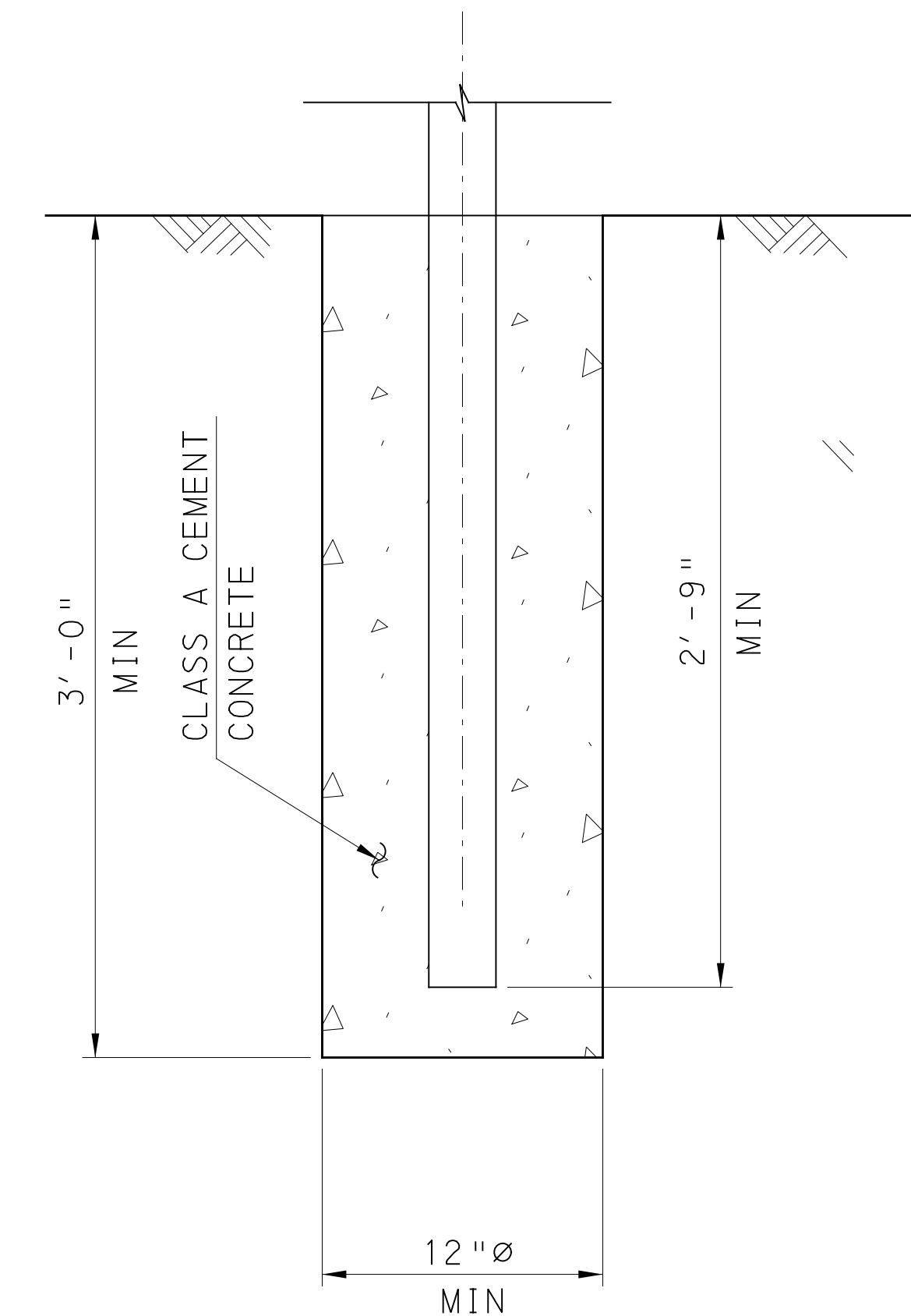
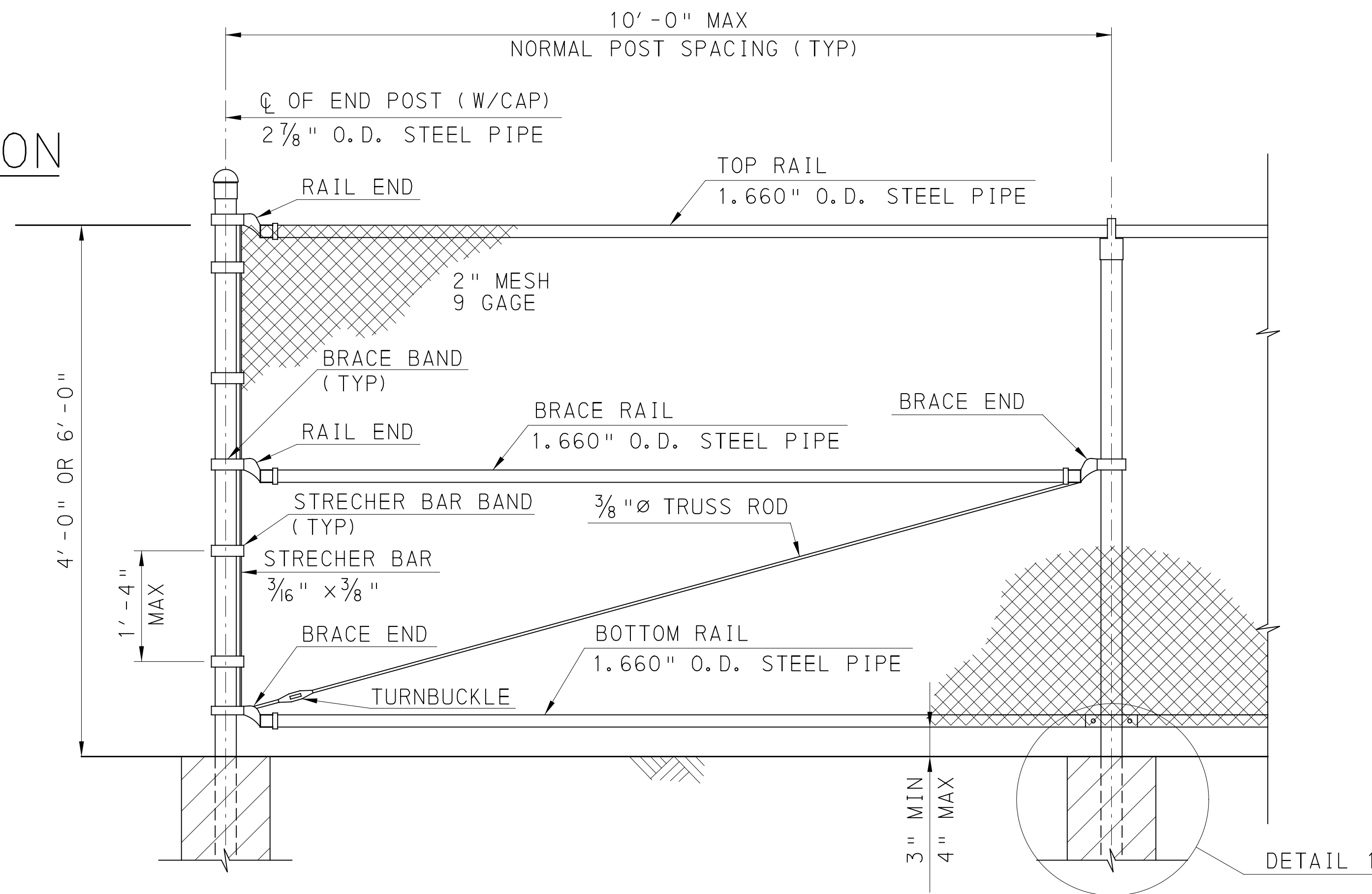
SIDEWALK GRADING INFORMATION

STATION	SIDEWALK EDGE AT FACE OF WALL		
	BASELINE OFFSET	ELEVATION 1	ELEVATION 2
0+90.00	8.63	205.00	-
1+00.00	8.63	205.14	-
1+25.00	8.63	205.75	-
1+50.00	8.63	206.35	-
1+55.00	8.63	206.45	-
1+75.00	8.63	206.85	-
1+80.00	8.63	206.98	-
1+96.00	8.63	207.17	-
2+00.00	8.63	207.27	-
2+25.00	8.63	207.69	-
2+50.00	8.63	208.30	-
2+57.00	8.63	208.39	-
2+75.00	8.63	208.72	-
3+00.00	8.63	208.85	-
3+09.00	8.63	208.92	-
3+22.00	8.63	209.27	-
3+25.00	8.63	209.47	-
3+50.00	8.63	210.12	-
3+75.00	8.63	210.63	-
4+00.00	8.63	211.34	-
4+18.69	8.63	212.07	215.07**
4+25.00	8.63	215.23	-
4+50.00	8.63	215.33	-
4+63.04	8.63	215.52	215.87*
4+75.00	8.63	215.88	-
4+81.00	8.63	215.88	-
5+00.00	8.63	216.30	-
5+25.00	8.63	216.30	-
5+38.00	8.63	216.58	-
5+42.90	8.63	216.75	217.48*
5+50.00	8.62	217.43	-
5+58.00	8.62	217.27	-
5+75.00	8.62	217.56	-
6+00.00	8.62	218.07	-
6+20.00	8.62	218.29	-
6+23.04	8.62	218.34	219.09*
6+25.00	8.62	219.02	-
6+46.00	8.62	218.78	-
6+50.00	8.62	218.81	-
6+60.00	8.62	219.05	-
6+62.23	8.62	219.11	219.29*
6+63.23	8.62	219.29	219.64*
6+75.00	8.62	219.60	-
7+00.00	8.62	219.77	-
7+03.33	8.62	219.79	220.49*
7+08.00	8.62	220.67	-
7+25.00	8.62	220.57	-
7+31.00	8.62	220.62	-
7+35.00	8.62	220.73	-
7+50.00	8.62	221.23	-
7+75.00	8.62	221.22	-
7+81.00	8.62	221.32	-
7+81.95	8.62	221.35	222.10*
7+90.00	8.62	222.34	-
8+00.00	8.62	222.48	-
8+20.00	8.62	222.30	-

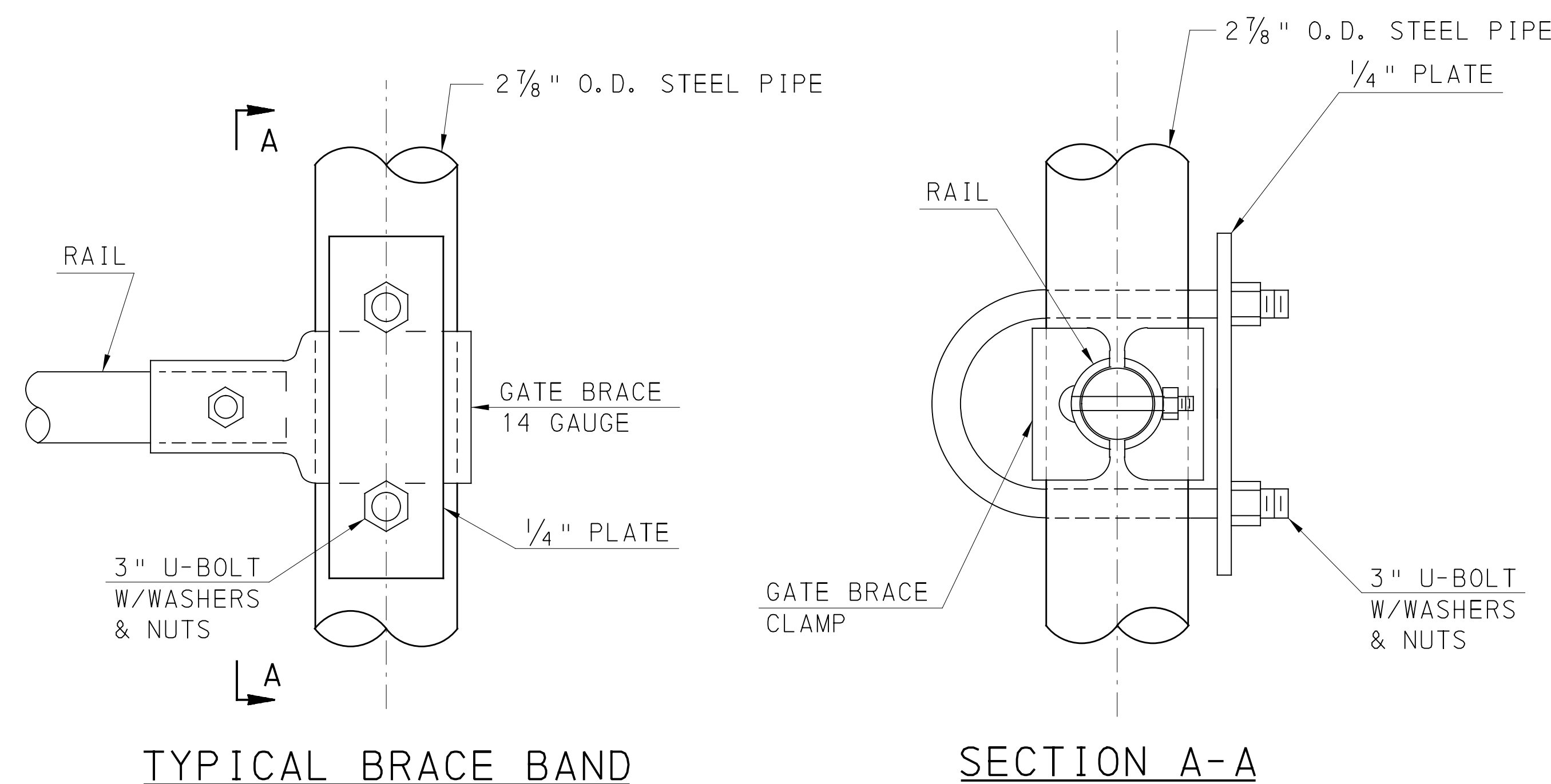
* REPRESENTS ELEVATION AT TOP OF STEP
 ** REPRESENTS ELEVATION AT TOP OF CHEEK WALL

NOTES:

ALL MEASUREMENTS ARE IN FEET.
 POSITIVE VALUES REPRESENT DISTANCES TO THE RIGHT (NORTH) OF THE BASELINE
 STATIONS WITH TWO ELEVATIONS AT THE SAME OFFSET REPRESENT A VERTICAL DROP IN ELEVATION.
 MATCH EXISTING ELEVATIONS AT SIDEWALK SAWCUT LINES.



DETAIL 1-GROUND MOUNTED POSTS



TYPICAL BRACE BAND

SECTION A-A

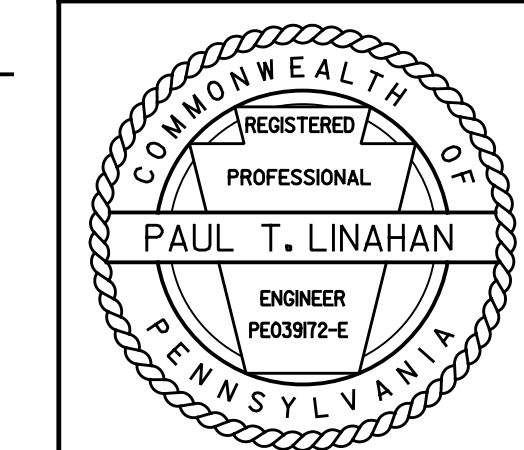
9000-0009 CHAIN LINK FENCE, 4 FEET HIGH
 9000-0010 CHAIN LINK FENCE, 6 FEET HIGH

NOT TO SCALE

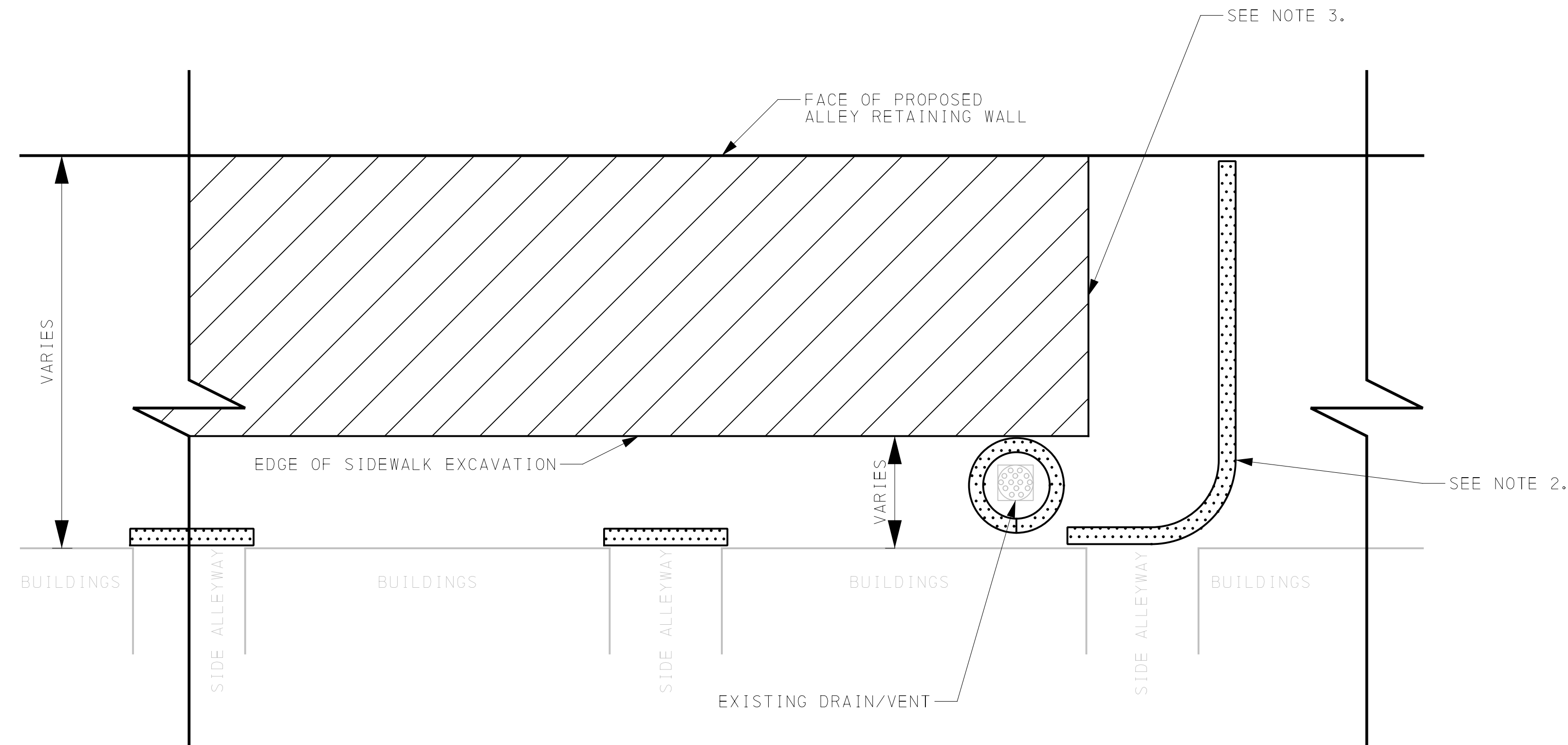
NOTES:

PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUBLICATION 408 RIGHT OF WAY FENCE AND THE PROJECT SPECIAL PROVISIONS.
 PLACE FENCE POSTS TRULY VERTICAL. PLACE RAILS PARALLEL TO GRADE.
 WHERE FENCE ABUTS TO EXISTING WALLS, PROVIDE MAXIMUM 3" GAP IN BETWEEN EXISTING WALL AND END FENCE POST.

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
ALLEY SIDEWALK TYPICAL SECTIONS & DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 7 OF 27



NOTES

1. INSTALL 20" WEIGHTED SEDIMENT FILTER TUBES AT EACH SIDE ALLEYWAY WITHIN THE EXCAVATION AREA, AS SHOWN.
2. PLACE A 20" WEIGHTED SEDIMENT FILTER TUBE AT THE DOWNSLOPE END OF THE EXCAVATED AREA, AS SHOWN.
3. UTILIZE A PUMPED WATER FILTER BAG TO REMOVE TRAPPED WATER FROM THE EXCAVATED TRENCH, AS NEEDED.
4. PROVIDE SEDIMENT FILTER TUBE AROUND EACH DRAIN AND VENT AS NEEDED.

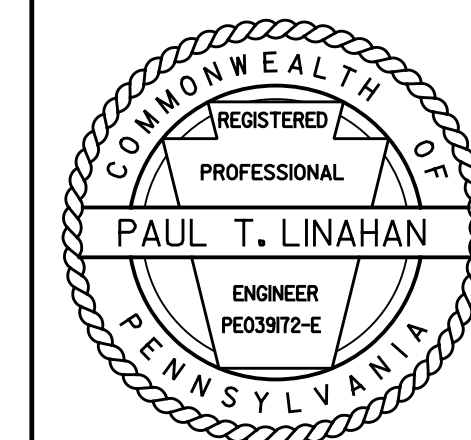
EROSION AND SEDIMENT CONTROL MEASURES TYPICAL LAYOUT

NOT TO SCALE

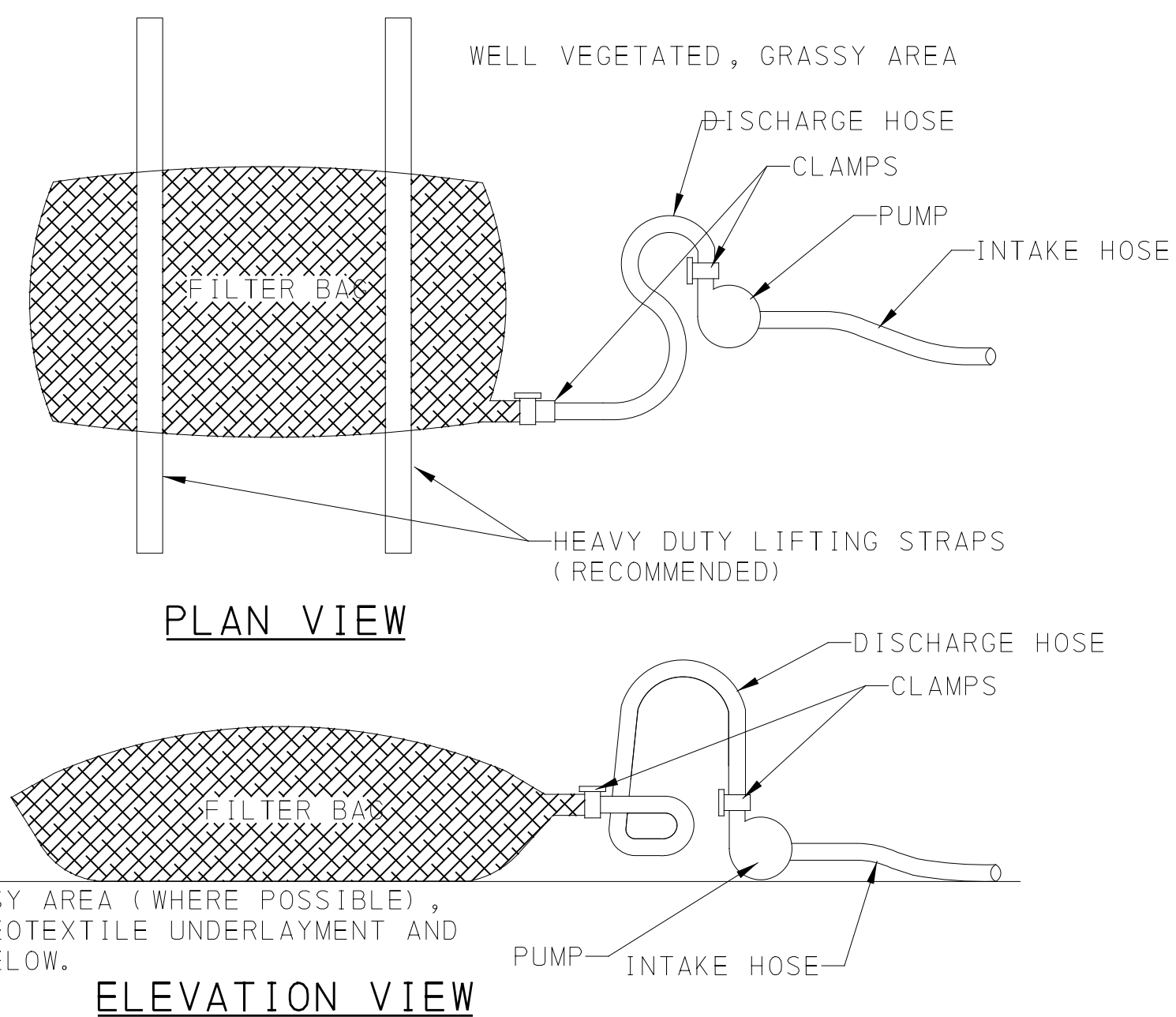
LEGEND

- 20" WEIGHTED SEDIMENT FILTER TUBE
- WORK AREA

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
ALLEY SIDEWALK TYPICAL SECTIONS & DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 8 OF 27



WELL VEGETATED, GRASSY AREA (WHERE POSSIBLE), OTHERWISE, PROVIDE GEOTEXTILE UNDERLAYMENT AND FLOW PATH AS NOTED BELOW.
ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

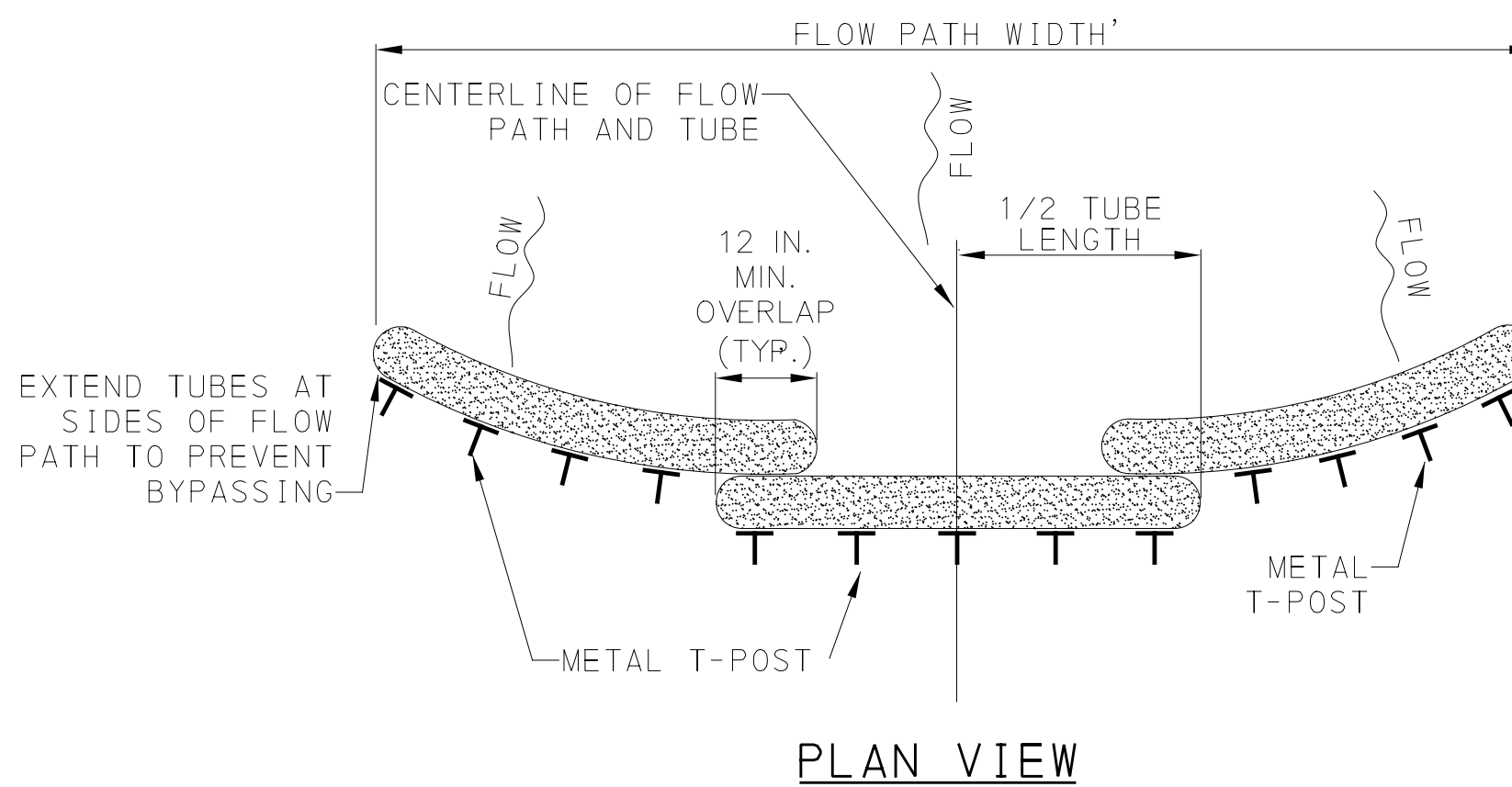
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

**STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG**

NOT TO SCALE



NOTES:

METAL T-POSTS (OR APPROVED ALTERNATE SYSTEM ON PAVED SURFACES) SHALL BE INSTALLED AT THE CENTER AND AT EACH END OF THE TUBE. ADDITIONAL T-POSTS SHALL BE INSTALLED AS NEEDED TO MEET THE MAXIMUM 2-FOOT SPACING. SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS DIRECTION OF FLOW.

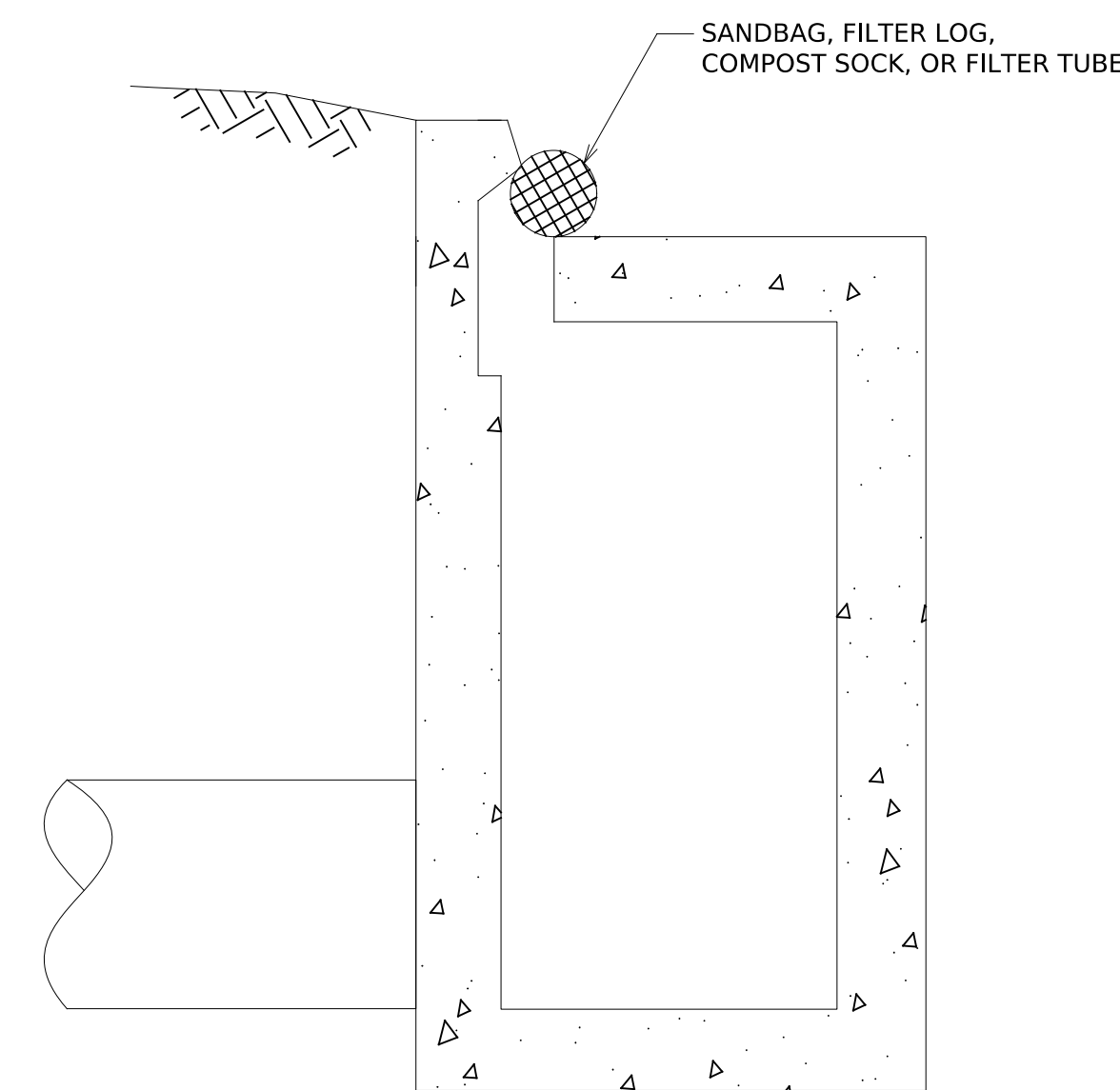
SEDIMENT TUBES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE TUBE AND DISPOSED AS DIRECTED ELSEWHERE IN THE E&S PLAN.

DAMAGED TUBES SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION. A SUPPLY OF TUBES SHALL BE KEPT ON SITE FOR THIS PURPOSE.

**STANDARD CONSTRUCTION DETAIL #4-5
WEIGHTED SEDIMENT FILTER TUBE INSTALLATION
ACROSS A WIDE FLOW PATH**

NOT TO SCALE

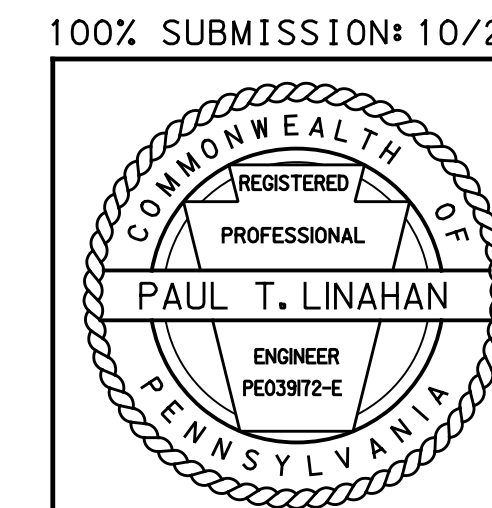


**COMPOST SOCK INLET PROTECTION
FOR PWD OPEN MOUTH INLET**

(AS NEEDED)
NOT TO SCALE

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. TEMPORARY EARTHEN BERMS OR SANDBAGS CAN BE USED FOR ALL INLET PROTECTION.
6. USE BERMS AS REQUIRED.
7. DO NOT USE INLET PROTECTION ON ROADWAYS WHERE PONDING WATER OR INLET PROTECTION MAY BE HAZARDOUS TO VEHICULAR TRAFFIC.
8. PROVIDE INLET PROTECTION, AS NEEDED NEAR CONTRACTOR ACCESS, AT CITY INLETS NEAR CORNERS OF:
JEFFERSON ST & N 61ST ST
JEFFERSON ST & N 63RD ST
NASSAU RD & N 61ST ST
NASSAU RD & N 63RD ST

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY EROSION & SEDIMENT CONTROL DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 9 OF 27



100% SUBMISSION: 10/24

EROSION & SEDIMENT CONTROL NOTES:

1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
2. INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES.
4. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
6. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
7. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP.
8. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
9. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
10. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
11. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION.
12. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION.
13. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
14. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
15. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
16. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
17. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
18. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
19. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY PWD AND PA DEP.
20. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION, AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION.
21. CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.

22. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PA DEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
23. THE OPERATOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE REQUIRED SEDIMENTATION CONTROL MEASURES.
24. ALL WORK SHALL BE CONDUCTED IN SUCH MANNER AS TO MINIMIZE THE SEDIMENTATION OF STREETS, DOWNSTREAM AREAS, AND RECEIVING SEWERS.
25. FILTER BAGS SHOULD BE CLEANED AND/OR REPLACED WHEN THE BAG IS 1/2 FULL.
26. DAMAGED FILTER BAGS SHOULD BE REPLACED.
27. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.
28. IF ANY MATERIAL IS TO BE STOCKPILED ON SITE OVERNIGHT APPROPRIATE PROTECTION IS REQUIRED.
29. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL WASTE MATERIALS APPROPRIATELY. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE OF ANY WASTE AT THE SITE.
30. THE INLET PROTECTION SHOULD BE INSTALLED PRIOR TO THE BEGINNING OF THE EXCAVATION AND/OR MILLING UNTIL THE BEGINNING OF PAVING.
31. PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTION COORDINATOR OF PWD (OFFICE 215-685-6387) MUST BE CALLED TO SCHEDULE A PRE-CONSTRUCTION MEETING.
32. AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.
33. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
34. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
35. WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A "SURFACE WATER" (WHEN APPLICABLE).
36. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

NOTES:

1. A ROCK CONSTRUCTION ENTRANCE WILL NOT BE UTILIZED FOR THIS PROJECT
2. ALL MATERIAL TO BE DISPOSED OF WILL BE HAULED OFFSITE.

TEMPORARY STABILIZATION NOTES

1. SITE ACCESS POINTS
 - 1.1. AT SITE ACCESS POINTS IMMEDIATELY REMOVE TRACKED SEDIMENT FROM THE ROADWAY AND DISPOSE OF IT ONSITE.
 - 1.2. DO NOT USE WATER TO CLEAN UP TRACKED SEDIMENT.
2. FILTER BAG
 - 2.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SIZE OF THE FILTER BAGS, BASED ON THEIR DEWATERING EQUIPMENT. BAGS SHALL BE SIZE TO ACCOMMODATE THE AVAILABLE PUMP CAPACITY UP TO A MAXIMUM OF 750 GPM.
 - 2.2. INSTALL AS DETAILED.
 - 2.3. FILTER BAGS SHALL BE INSPECTED DAILY.

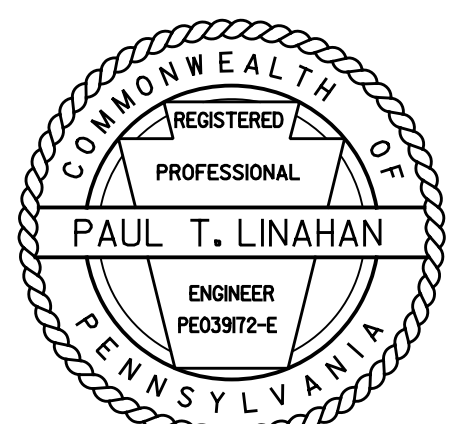
SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES, AS SHOWN ON THE PLANS AND ON THE E&S TYPICAL SECTION DRAWING.
2. CLEAR AND GRUB WITHIN LIMIT OF DISTURBANCE AREA.
3. DEMOLISH EXISTING DECKS AND STAIRCASES, GARAGES AND REMOVE ALL FENCING, AS INDICATED ON THE PLANS.
4. BEGIN EXCAVATION OF THE EXISTING RETAINING WALL AND OF THE SIDEWALK, SAWCUTTING THE SIDEWALK IN ORDER TO PLACE SHEETING AS SHOWN ON THE PLAN (SHEETS 16,17,18). PROVIDE SEDIMENT FILTRATION AROUND EACH DRAIN AND VENT. PROVIDE TEMPORARY SUPPORT FOR ALL DRAINS AND VENTS IF IMPACTED BY EXCAVATION LIMITS, INCIDENTAL TO ITEM 9203-0101. MAINTAIN EXISTING ELEVATIONS FOR ALL DRAINS AND VENTS.
5. INSTALL PROPOSED RETAINING WALL, CHEEK WALL, AND SIDEWALK AS INDICATED ON THE PLANS.
6. REPAIR DISTURBED AREAS ALONG THE TOP OF THE RETAINING WALL. MAINTAIN GRADING 6" BELOW THE TOP OF THE RETAINING WALL AS SHOWN ON THE RETAINING WALL DETAIL, SHEET 6 OF 26.
7. RECONSTRUCT THE DECKS, STAIRCASES, GARAGES AND FENCES THAT WERE PREVIOUSLY DEMOLISHED, AS INDICATED ON THE PLANS AND SPECS.
8. CONSTRUCT ALL REMAINING ITEMS AS SHOWN ON THE PLANS.
9. STABILIZE ALL DISTURBED AREAS AT THE END OF EACH DAY.
10. REMOVE EROSION AND SEDIMENT CONTROL MEASURES WHEN CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND FINAL STABILIZATION OF DISTURBED AREAS HAS BEEN REACHED.

STORMWATER MANAGEMENT CALCULATIONS

LIMIT OF DISTURBANCE (LOD) = 12,983 SF
 LOD EXEMPT FROM STORMWATER MANAGEMENT = 12,983 SF
 NET LOD REQUIRING STORMWATER MANAGEMENT = 0.0 SF

TOTAL DISTURBED AREA	12,983 SF
LIMIT OF DISTURBANCE FOR RETAINING WALL RECONSTRUCTION (LOD)	12,775 SF
LIMIT OF DISTURBANCE FOR 13 DECK RECONSTRUCTIONS (4 FOOTINGS PER DECK)	208 SF

100% SUBMISSION: 10/24	REV	DESCRIPTION	DATE
		SUBMITTED TO DEPARTMENT OF STREETS: DATE	
			
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY EROSION & SEDIMENT CONTROL NOTES			
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD			
GANNETT FLEMING, INC.			SHEET 10 OF 27

SEEDING AND MULCHING NOTES

1. GENERAL. SEED CONFORMING TO THE REGULATIONS OF CHAPTER 71 - SEED OF THE PENNSYLVANIA SEED ACT 164 OF 2004, EFFECTIVE JANUARY 29, 2005, AND AMENDMENTS. MEET OTHER APPLICABLE REGULATIONS OF THE SEED, TESTING AND CERTIFICATION PROGRAMS OF THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE (PDA), BUREAU OF PLANT INDUSTRY.

PROVIDE SEEDS THAT HAVE BEEN TESTED AND APPROVED FOR THE SPECIFIED SEED FORMULA'S PURITY, GERMINATION, AND WEED SEED ANALYSIS LIMITS AND OTHER APPLICABLE PDA RULES FOR SEED TESTING.

PROVIDE CERTIFIED SEED FOR ALL KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, CREEPING RED FESCUE, CHEWINGS FESCUE, AND HARD FESCUE VARIETIES SUBMITTED FOR EACH SEED FORMULA.

PROVIDE PREMIXED SEED MIXTURES FROM A LICENSED SEED DISTRIBUTOR/SEED MIXING COMPANY LOCATED WITHIN THE STATE AND MIXED UNDER THE SUPERVISION OF THE PDA FOR THE DESIGNATED TABLE B SEED FORMULAS B, L, AND T. USE ONLY SEED THAT HAS AN APPROVED SEED INSPECTOR'S TAG OR LABEL SIGNED BY A PDA INSPECTOR SEWN OR STAPLED TO THE OUTSIDE OF EACH SEED BAG OR OTHER CONTAINER IN A CONSPICUOUS PLACE. PRESSURE SENSITIVE LABELS MAY BE USED ON PAPER OR PLASTIC CONTAINERS. PURCHASE NATIVE SEED MIXTURES FROM CERTIFIED SEED VENDORS. PROVIDE ORIGINAL SEED TAGS FROM EACH BAG TO THE REPRESENTATIVE.

SEED MIXTURES MAY ALSO BE MIXED TO PROJECT SPECIFICATIONS AT THE PROJECT SITE FOR SPECIAL SEED FORMULAS OR MIXTURES NOT SPECIFIED IN TABLE A. IF ALL SPECIFIED SEED SPECIES HAVE BEEN PREVIOUSLY INSPECTED, TESTED, AND APPROVED BY PDA FOR THE DESIGNATED PURITY, GERMINATION, WEED SEED LIMITS, OR PURE LIVE SEED ANALYSIS, MIX THE SEED SPECIES TO THE DESIGNATED FORMULA OR MIXTURE SPECIFICATIONS UNDER DEPARTMENT SUPERVISION.

DO NOT USE SEED FROM CONTAINERS THAT HAVE NOT BEEN PROPERLY SEALED. DO NOT USE SEED THAT HAS A SELL-BY DATE OF MORE THAN 15 MONTHS FROM THE DATE OF THE INSPECTION TEST, EXCLUSIVE OF THE MONTH OF THE TEST. THE DEPARTMENT MAY REJECT OR REQUEST RE-TESTING FOR ANY QUESTIONABLE SEED DELIVERED TO THE PROJECT.

2. STANDARD SEED FORMULAS. ACCORDING TO TABLE B. FOR FORMULAS C, N, P, R, AND W, DETERMINE WHICH ONE OF THE TWO NURSERY CROPS TO USE BASED ON THE PLANTING SEASON. ADD IN EACH OF THE OTHER SEEDS LISTED AT THE DESIGNATED RATE.

3. SPECIAL SEED FORMULAS AND PURE LIVE SEED. SEED FOR SPECIAL SEED FORMULAS CONSISTING MAINLY OF WARM-SEASON GRASSES, FORBS, OR WILDFLOWERS MAY BE REQUIRED TO BE PROVIDED IN QUANTITIES BASED ON SPECIFIED PURE LIVE SEED APPLICATION RATES. APPLICATION RATES FOR THE SPECIAL SEED FORMULAS MAY VARY.

THE PLS SEED APPLICATION RATE IS A METHOD OF ADJUSTING THE AMOUNT OF SEED REQUIRE TO COMPENSATE FOR LOW SEED PURITY AND LOW GERMINATION PERCENTAGES. THE NORMAL AMOUNT OF SEED TO BE PROVIDED FOR EACH SEED TYPE IS HIGHER AND BASED ON EACH SEED'S PLS ANALYSIS. PROVIDE PLS SEED CALCULATION AMOUNTS BASED ON THE SEED LABEL FOR ALL DESIGNATED PLS SEED FORMULA TYPES FOR VERIFICATION AND APPROVAL BEFORE APPLICATION.

THE SPECIFIED PLS SEEDING RATE FOR EACH SEED TYPE DIVIDED BY THE PERCENTAGE PLS VALUE OF THE PROPOSED SEED TYPE WILL DETERMINE THE AMOUNT OF SEED REQUIRED TO BE PROVIDED FOR THAT SEED TYPE. NOTE: SEED WITH A PURITY OF 85% AND 70% GERMINATION RATE WOULD EQUAL A PLS OF 60% (85% X 70% DIVIDED BY 100). A SPECIFIED RATE OF 2.5 POUNDS/ACRE OF PLS SEED WOULD THEREFORE REQUIRE 4.2 POUNDS QUANTITY OF SEED TO BE PROVIDED FOR THAT SEED TYPE. THE VALUES FOR THE SEEDING RATES ARE BASED ON PURE LIVE SEED RATES.

(D) INOCULANT. STANDARD ACCEPTABLE COMMERCIAL PRODUCT, FOR TREATING LEGUMINOUS SEED, A PRODUCT CONSISTING OF A SUITABLE CARRIER, CONTAINING A CULTURE OF NITROGEN-FIXING BACTERIA SPECIFIC FOR THE SEED TO BE INOCULATED.

KEEP LIDS ON CONTAINERS WHEN NOT IN USE TO AVOID CONTAMINATION. STORE CONTAINERS AT MODERATE TEMPERATURE. DO NOT USE INOCULANT AFTER THE EXPIRATION DATE SHOWN ON THE CONTAINER.

(E) HERBICIDES. ACCORDING TO ALL APPLICABLE FEDERAL AND STATE PESTICIDE ACTS AND REGISTRATION REQUIREMENTS AND ACCORDING TO PCID NO. 1094 - HERBICIDES (WEED AND BRUSH CONTROL) ISSUED BY THE PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES, BUREAU OF PURCHASES, QUALITY ASSURANCE DIVISION, FOR THE APPROPRIATE TYPE.

FURNISH HERBICIDE IN MANUFACTURER'S LABELED CONTAINER AS FOLLOWS:

1. SELECTIVE CONTROL IN SEEDED AREAS. IN AREAS SEEDED WITH FORMULA B, L, OR T, USE TYPE 1, CLASS C-2, 4-D LIQUID AMINE SALT FORMULATIONS (DIMETHYLAMINE) LISTED IN PCID NO. 1094, FOR CONTROLLING BROADLEAF WEEDS.

2. NON-SELECTIVE CONTROL IN SEEDED AREAS. IN AREAS SEEDED WITH FORMULA C, N, P, R, OR W, USE PCID NO. 1094 FOR NON-SELECTIVE SPOT TREATMENTS. ALL HERBICIDE LABEL DIRECTIONS MUST BE FOLLOWED, DO NOT USE SELECTIVE HERBICIDES IN AREAS SEEDED WITH FORMULA C, N, P, R, OR W.

(F) MULCH. SECTION 805.2(A)1., FOR THE TYPE INDICATED. DO NOT USE WOOD MULCH WHEN SEEDING NATIVE SPECIES USING HYDROSEEDING PROCEDURES. WHEN SEEDING NATIVE SPECIES, TACKIFIER MUST NOT BE GREATER THAN 1/2 INCH THICK.

(G) WATER. SECTION 720.2

*FOR INFORMATION ONLY

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS AND RELATED ITEMS INCLUDED IN THIS PERMIT.

STANDARD NOTES

**TABLE B
SEEDING REQUIREMENTS**

FORMULA AND SPECIES	% BY WEIGHT	MINIMUM %			
		PURITY	GERMINATION		
FORMULA B RESIDENTIAL MIX					42.0 (210) TOTAL
● PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE). A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	8.5 (41.14)
● CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.10	12.5 (60.5)
● KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS). A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.	50	97	80	0.15	21.0 (101.64)

INCLUDING HARDSEED AND NORMAL SEEDLINGS
SEE E&S SKETCH PLANS FOR SEED APPLICATION LOCATIONS

SEEDING APPLICATION DATES*

(A) GENERAL. SPREAD SEEDS WHERE INDICATED AND AT THE RATES ACCORDING TO TABLE B, OR AS OTHERWISE INDICATED. SPREAD SEEDS WITHIN THE FOLLOWING DATES, OR AS OTHERWISE INDICATED OR DIRECTED.

- FORMULA B — MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

EXTEND SEEDING DATES WHERE PROJECT CONDITIONS WARRANT. APPLY FULL TREATMENT OR APPLY ONLY 50% OF THE PERMANENT SEEDING AND SOIL SUPPLEMENTS AND APPLY THE REMAINING 50% WITHIN THE NEXT SEEDING DATES, AS DIRECTED IN WRITING.

USE TILLAGE AND SOIL SUPPLEMENTS BEFORE PERMANENT SEEDING ON TOPSOILED AREAS, WHERE TEMPORARY SEEDING OR MULCHING HAS BEEN APPLIED.

APPLY PERMANENT SEED AND/OR SOIL SUPPLEMENTS AFTER TILLING ON TOPSOILED AREAS, WHERE TEMPORARY SEEDING OR MULCHING HAS BEEN APPLIED.

(B) TILLAGE. ON TOPSOILED AREAS, 3:1 AND FLATTER, LOOSEN THE SURFACE TO A DEPTH OF AT LEAST 2 INCHES BY DISKING, HARROWING, OR OTHER ACCEPTABLE METHODS UNTIL THE TILLAGE IS SATISFACTORY. ON UNTOPSOILED AREAS, 3:1 AND FLATTER, TILL ONLY AS DIRECTED. ALSO, TILL OR SCARIFY AREAS IF THE SURFACE IS GLAZED OR CRUSTED.

CORRECT SURFACE IRREGULARITIES BY FILLING DEPRESSIONS AND LEVELING ROUGH OR UNEVEN AREAS. REMOVE METAL OBJECTS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER DEBRIS OR OBJECTS DEEMED DETRIMENTAL TO MAINTENANCE OPERATIONS.

**SOIL SUPPLEMENTS
APPLICATION RATES***

SOIL SUPPLEMENTS.

PREPARE AREAS FOR SEEDING BY UNIFORMLY APPLYING SUPPLEMENTS, AS INDICATED BY SOIL TESTING. DOCUMENT BULK DELIVERY AS SPECIFIED IN SECTION 804.2(A)2.

BLEND THE INITIAL SOIL SUPPLEMENTS INTO THE SOIL AT LEAST 2 INCHES, ON TOPSOILED AREAS, BY RAKING, DISKING, HARROWING, OR OTHER ACCEPTABLE METHODS. BLEND THE SUPPLEMENTS INTO THE SOIL DURING TILLAGE OPERATIONS.

SUPPLEMENTS SHALL NOT BE ADDED WHEN SEEDING FORMULAS C, N, W, R, P, SLOPE AND WILDFLOWER ENHANCEMENT SEEDED AREAS UNLESS INDICATED BY SOIL TEST. INFORM LAB PERFORMING TEST THAT SAMPLE IS FOR NATIVE SEEDING.

IF NITROGEN IS INDICATED AS LOW BY SOIL TESTS, APPLY NITROGEN AS INDICATED, DO NOT EXCEED 4.5 POUNDS PER 1,000 SQUARE YARDS OF NITROGEN IN APPLICATION.

APPLY SLOW-RELEASE NITROGEN FERTILIZER TO THE SURFACE OF FORMULA B, L, AND T SEEDED AREAS BEFORE PROJECT COMPLETION.

APPLY SOIL SUPPLEMENTS AS FOLLOWS, UNLESS OTHERWISE INDICATED:

- PULVERIZED AGRICULTURAL LIMESTONE — 800 POUNDS PER 1,000 S.Y.
- 10-20-20 ANALYSIS COMMERCIAL FERTILIZER — 140 POUNDS PER 1,000 S.Y.
- 38-0-0 UREAFORM FERTILIZER — 50 POUNDS PER 1,000 S.Y.
- OR
- 32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER — 59 TO 50 POUNDS PER 1,000 S.Y. AS DIRECTED
- OR
- 31-0-0 IBDU FERTILIZER — 61 POUNDS PER 1,000 S.Y.

SOIL SUPPLEMENTS *

1. PULVERIZED AGRICULTURAL LIMESTONE.

CONFORMING TO THE REQUIREMENTS OF THE AGRICULTURAL LIMING MATERIALS ACT OF 1978, P.L. 15, NO. 9, AS AMENDED; THE AGRICULTURAL LIMING MATERIALS RULES AND REGULATIONS (TITLE 7-PART V); 7 PA CODE, CHAPTER 108 FOR LABELING REQUIREMENTS; AND AS FOLLOWS:

- % TOTAL OXIDES (TOTAL CALCIUM OXIDE AND MAGNESIUM OXIDE EQUIVALENT) ACCORDING TO (ASTM C 25) 50
- % CALCIUM CARBONATE EQUIVALENT (% BY WEIGHT) ACCORDING TO (ASTM C 25) 89
- % FINENESS (MINIMUM % BY WEIGHT)
 - MATERIAL PASSING NO. 20 SIEVE 95
 - MATERIAL PASSING NO. 60 SIEVE 60
 - MATERIAL PASSING NO. 100 SIEVE 50
- FURNISH MATERIAL HAVING AN EFFECTIVE NEUTRALIZING VALUE (ENV) OF NOT LESS THAN 90 WHEN CALCULATED ACCORDING TO 7 PA CODE CHAPTER 108 AS FOLLOWS:
 - % BY WEIGHT PASSING 20 MESH - % PASSING 60 MESH X 0.4 = (A)
 - % BY WEIGHT PASSING 60 MESH - % PASSING 100 MESH X 0.8 = (B)
 - % BY WEIGHT PASSING 100 MESH X 1.0 = (C)
- MINIMUM CALCIUM CARBONATE EQUIVALENT (CCE) = % BY WEIGHT OF CALCIUM CARBONATE
- (A) + (B) + (C) X CCE DIVIDED BY 100 = ENV

2. COMMERCIAL FERTILIZER.

CONFORMING TO THE REQUIREMENTS OF THE PENNSYLVANIA SOIL CONDITIONER AND PLANT GROWTH SUBSTANCE LAW, ACT OF DECEMBER 1, 1977, P.L. 258, NO. 86 (3P.S.68.2), AS AMENDED. SEE TABLE A FOR FERTILIZER FORMULATION.

**TABLE A
FERTILIZER FORMULATION BY SEED MIX TYPE**

SEED MIX CATEGORY	FORMULATION	RATE OF APPLICATION
TURF GRASS (FORMULAS B, L, T)	10-20-20	140 LB./1000 SY
TREE, SHRUB, & VINE INSTALLATIONS	20-10-5 AND 16-8-12	N/A
NATIVE UPLAND MIXES (FORMULAS C, N, P, WILDFLOWER & SLOPE ENHANCEMENTS)	DETERMINED BY SOIL TEST, SEE SECTION 804.3 (E) 1	DETERMINED BY SOIL TEST, SEE SECTION 804.3 (E) 1
NATIVE WETLAND MIXES (FORMULAS R, W)	DETERMINED BY SOIL TEST, SEE SECTION 804.3 (E) 1	DETERMINED BY SOIL TEST, SEE SECTION 804.3 (E) 1

USE DRY FORMULATIONS OF 10-20-20 ANALYSIS FOR SEEDED AND SODDED AREAS WITH TURF FORMULAS B AND L. USE DRY FORMULATIONS OF 20-10-5 AND 16-8-16 ANALYSIS-CONTROLLED RELEASE FOR TREE, SHRUB, AND VINE TYPE PLANTING OPERATIONS. USE OTHER ANALYSIS AS INDICATED. IF A SOIL TEST IS NOT AVAILABLE FOR FORMULAS C, N, P, R, W, WILDFLOWER OR SLOPE ENHANCEMENT, DO NOT APPLY FERTILIZER.

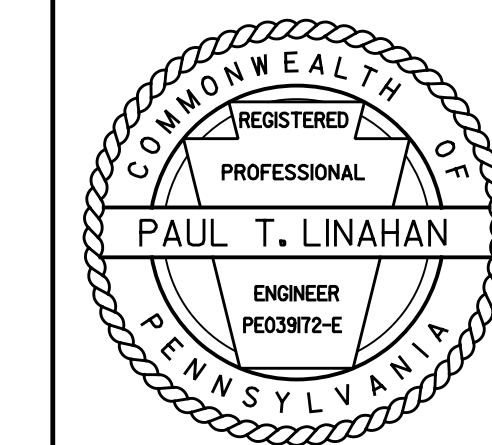
WHEN SUBMITTING SOIL TESTING TO A LAB SPECIFY TO THE LAB THAT THE SOIL IS FOR A NATIVE SEEDING. INCORPORATE THE FERTILIZER INTO THE SOIL AT TIME OF APPLICATION.

3. SLOW-RELEASE NITROGEN FERTILIZER.

CONFORMING TO THE REQUIREMENTS OF THE PENNSYLVANIA SOIL CONDITIONER AND PLANT GROWTH SUBSTANCE LAW, ACT OF DECEMBER 1, 1977, P.L. 258, NO. 86 (3P.S.68.2) AS AMENDED. USE ONLY ON FORMULAS B, L, AND T. USE DRY FORMULATIONS OF EITHER 38-0-0 UREAFORM, 32-0-0 TO 38-0-0 SULFUR COATED UREA, 31-0-0 IBDU, OR ANOTHER ANALYSIS AS INDICATED AND CONFORM TO THE FOLLOWING REQUIREMENTS:

- 38-0-0 UREAFORM
- TOTAL NITROGEN (TN) — 38.0% MINIMUM
- COLD WATER INSOLUBLE NITROGEN (WIN) — 25.0% MINIMUM
- ACTIVITY INDEX (AI) — 40.0% MINIMUM
- UREA NITROGEN — 3.5% MINIMUM
- 32-0-0 TO 38-0-0 SULFUR COATED UREA WITH A 7-DAY DISSOLUTION RANGE OF 20% TO 30%
- 31-0-0 IBDU — COARSE GRADE (28 MILS TO 98 MILS)
- WATER INSOLUBLE NITROGEN (WIN) — 27.0% MINIMUM

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY EROSION & SEDIMENT CONTROL NOTES		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 11 OF 27



100% SUBMISSION: 10/24

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STANDARD NOTES CONTINUED

MULCH TYPES*

MULCHES.

FREE FROM FOREIGN MATERIAL, COARSE STEMS, MOLD, SUBSTANCES TOXIC TO PLANT GROWTH, AND MATURE SEED BEARING STALKS OR ROOTS OF PROHIBITED AND NOXIOUS WEEDS, AS DEFINED BY LAW.

1. SEEDED AREAS.

EITHER ONE OR A COMBINATION OF THE FOLLOWING, AS SPECIFIED:

1.A HAY.

TIMOTHY HAY, MIXED CLOVER AND TIMOTHY HAY, OR OTHER ACCEPTABLE NATIVE OR FORAGE GRASSES, WELL CURED TO LESS THAN 20% MOISTURE CONTENT, BY WEIGHT.

1.B STRAW.

EITHER WHEAT OR OAT STRAW, REASONABLY FREE OF VIABLE SEED, WELL CURED TO LESS THAN 20% MOISTURE CONTENT, BY WEIGHT.

MULCHING APPLICATION RATES*

MULCHING SEEDED AREAS.

PLACE MULCH, OF THE TYPE INDICATED, IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. UNLESS OTHERWISE INDICATED, PLACE ONLY STRAW OR WOOD FIBER OVER TOPSOILED AREAS. USE HAY, STRAW, OR WOOD FIBER IN OTHER AREAS, AS INDICATED OR SPECIFIED.

PLACE HAY OR STRAW UNIFORMLY, IN A CONTINUOUS BLANKET, AT A MINIMUM RATE OF 1,200 POUNDS PER 1,000 SQUARE YARDS OR AS OTHERWISE INDICATED. IF DIRECTED, INCREASE THE RATE OF APPLICATION, DEPENDING UPON THE MATERIAL USED, SEASON, SOIL CONDITIONS, OR METHOD OF APPLICATION. AN ACCEPTABLE MECHANICAL BLOWER MAY BE USED TO APPLY MULCH. DO NOT USE MACHINES THAT CUT MULCH INTO SHORT PIECES. ANCHOR MULCH WITH SPECIFIED MULCH BINDERS APPLIED AT THE FOLLOWING RATES:

- RECYCLED CELLULOSE FIBER - 160 POUNDS PER 1,000 SQUARE YARDS
- WOOD FIBER - 160 POUNDS PER 1,000 SQUARE YARDS.
- NONASPHALTIC EMULSION - AT MANUFACTURER'S RECOMMENDED RATE
- POLYVINYL ACETATE - AT MANUFACTURER'S RECOMMENDED RATE
- RECYCLED CELLULOSE FIBER/WOOD FIBER MIXTURE - 160 POUNDS PER 1,000 SQUARE YARDS.

THE MULCH BINDER APPLICATION IS INCIDENTAL TO THE APPLICATION OF STRAW AND HAY MULCH.

APPLY WOOD FIBER MULCH HYDRAULICALLY ACCORDING TO THE MANUFACTURER'S TANK-MIXING INSTRUCTION. IT MAY BE INCORPORATED AS AN INTEGRAL PART OF THE SLURRY AFTER THE SEED AND SOIL SUPPLEMENTS HAVE BEEN THOROUGHLY MIXED. APPLY UNIFORMLY AT THE RATE OF 320 POUNDS PER 1,000 SQUARE YARDS, UNLESS OTHERWISE INDICATED.

MULCH TEMPORARY SEEDED AREAS WITH HAY.

MULCHING PLANTED AREAS.

UNIFORMLY APPLY A DESIGNATED MULCH SPECIFIED IN SECTION 805.2(A)2 TO THE ENTIRE PLANT PIT TO A LOOSE DEPTH OF 3 INCHES AND AS SHOWN ON THE STANDARD DRAWING. APPLY MULCH WITHIN 48 HOURS AFTER COMPLETION OF THE PLANTING OPERATION.

MULCH CONTROL NETTING*

1. PLASTIC.

A UNIFORMLY EXTRUDED, RECTANGULAR, PLASTIC MESH MEETING THE FOLLOWING REQUIREMENTS:

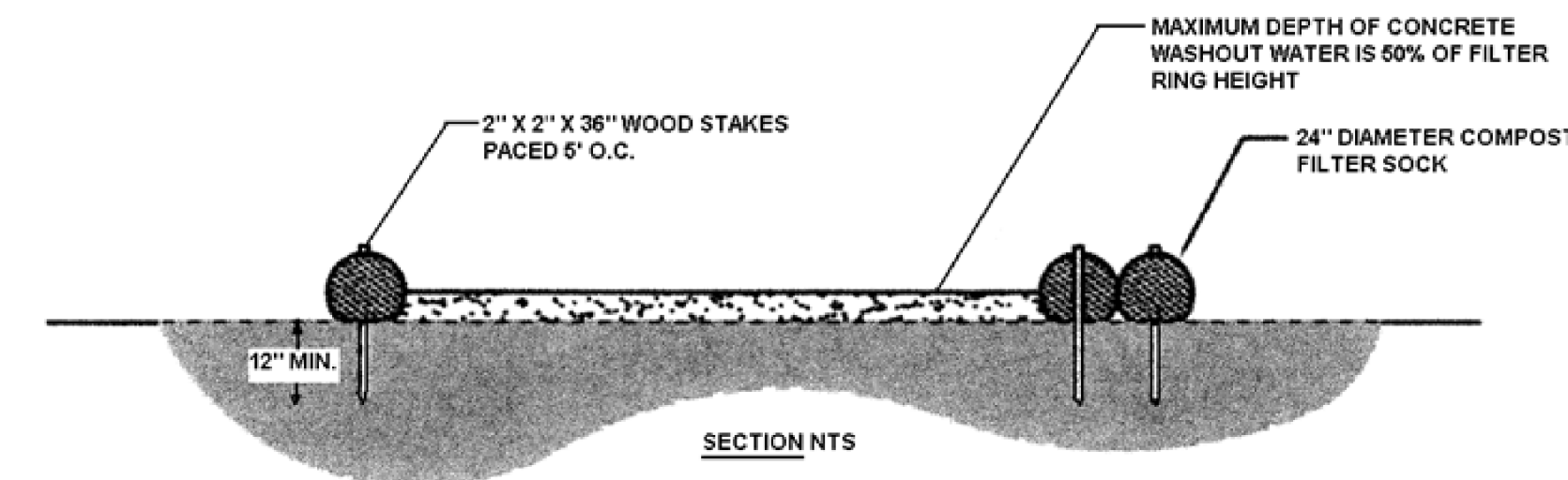
- WEIGHT ——— 0.23 OUNCE PER SQUARE YARD, MINIMUM
- MESH OPENING ——— NOMINAL 1 3/4-INCH X 3/4-INCH

2. COCONUT COIR.

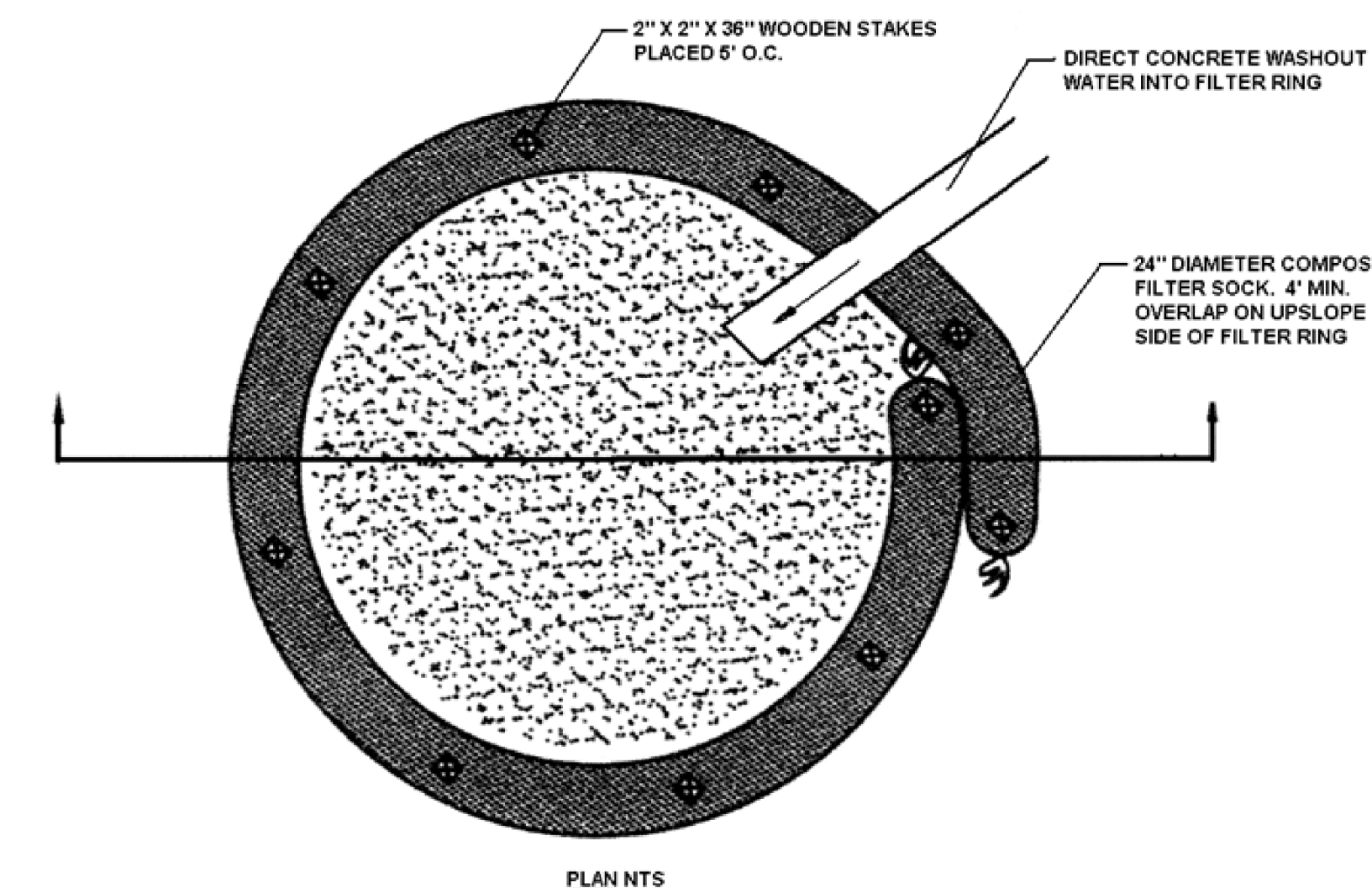
UNDYED, BIODEGRADABLE COCONUT COIR YARN WOVEN INTO A MESH CONFORMING TO THE FOLLOWING REQUIREMENTS:

- WEIGHT ——— 6 OUNCES PER SQUARE YARD, MINIMUM
- MESH OPENING ——— NOMINAL 2-INCH X 2-INCH, MAXIMUM

BMP	INSPECTION	MAINTENANCE	REPAIR
WEIGHTED SEDIMENT FILTER TUBE	WEEKLY AND AFTER EACH RAINFALL EVENT	REMOVE SEDIMENT WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE TUBE.	DAMAGED TUBE SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATION OR REPLACED WITHIN 24 HOURS OF INSPECTION.
PUMPED WATER FILTER BAG WITH COMPOST SOCK RING	DAILY AND PRIOR TO START OF PUMPING	UPON DETECTION OF ANY PROBLEM WITH THE BAG OR HOSE, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED OR ANOTHER BAG OR HOSE IS PLACED INTO OPERATION.	REPLACE BAG WHEN IT IS 1/2 FULL OF SEDIMENT FOR VEGETATED AREAS OR COMPLETELY FULL IF THE BAG IS PLACED ON #57 STONE. IF LESS THAN 1/2 FULL AND DESIGN FLOW RATE IS REDUCED DUE TO SEDIMENT ACCUMULATION OR BAG IS DAMAGED, REPLACE BAG.
SEEDING AND MULCHING	WEEKLY AND AFTER EACH RAINFALL EVENT	IF WASHOUTS OCCUR, EVALUATE IF CONCENTRATED FLOW IS LIKELY TO HAPPEN AGAIN. IF SO, RE-SEED AND STABILIZE WITH AN APPROPRIATE RECP. IF CONCENTRATED FLOW IS NOT LIKELY TO HAPPEN AGAIN, RE-SEED AND APPLY MULCH.	RE-APPLY SEED TO THE BARE AREAS AS NEEDED TO ESTABLISH 70% STABILIZATION.
CONCRETE WASHOUT	DAILY	ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.	DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING.



NOTES:
 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



COMPOST SOCK WASHOUT INSTALLATION (EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL TECHNICAL GUIDANCE NUMBER 363-2134-008)

NOTES:

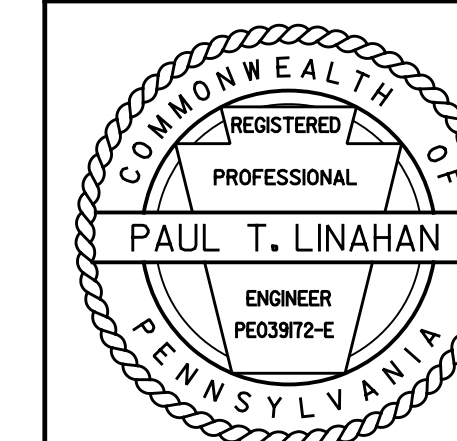
1. PROVIDE PREFABRICATED CONCRETE WASHOUT AREA APPROVED BY ENGINEER OR INSTALL ABOVE DETAILED COMPOST SOCK WASHOUT USING AN IMPERVIOUS GEOMEMBRANE PLACED AT THE LOCATION OF THE WASHOUT.
 2. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE. CARE MUST BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS-SECTION. ALL MATERIALS MUST BE APPROVED BY ENGINEER.
 3. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS.
 4. WASHOUT FACILITIES SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS.
 5. WASHOUT FACILITIES SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
- DESIGNED, INSTALLED AND MAINTAIN AREA IN ACCORDANCE WITH THE PA BMP MANUAL.

COMPOST SOCK WASHOUT

ITEM 9000-0001
 NOT TO SCALE

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
EROSION & SEDIMENT CONTROL NOTES		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 12 OF 27

100% SUBMISSION: 10/24

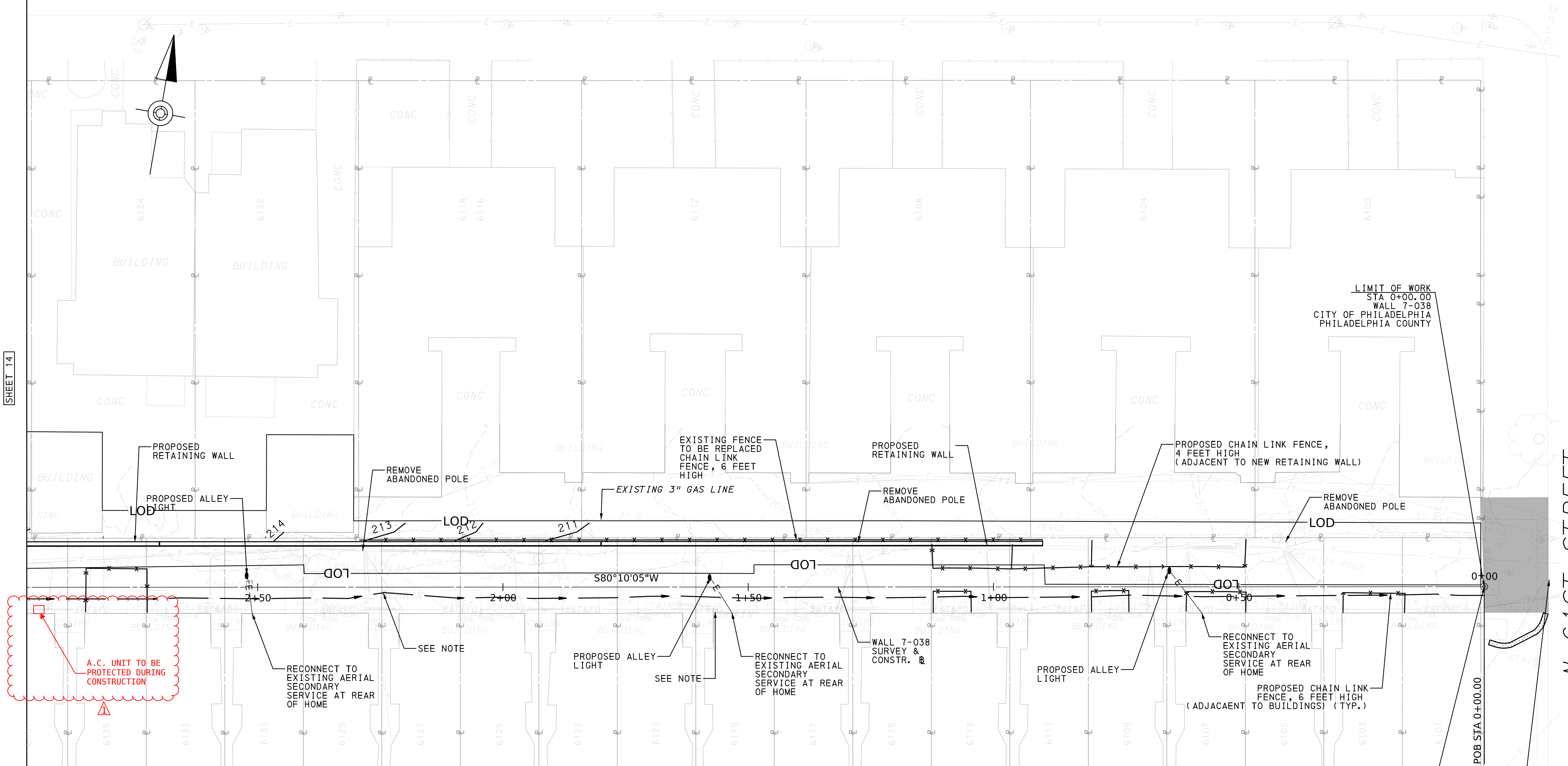


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NASSAU ROAD

SHEET 14



LIMIT OF WORK
 STA 0+00.00
 WALL 7-038
 CITY OF PHILADELPHIA
 PHILADELPHIA COUNTY

POB STA 0+00.00
 POINT OF ACCESS

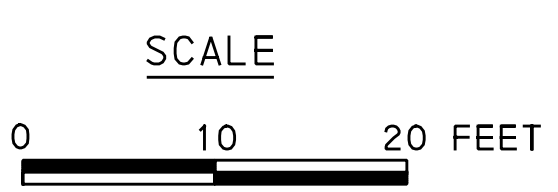
N 61ST STREET

LEGEND

- 200 — EXISTING CONTOUR
- 200 — PROPOSED CONTOUR
- LOD — LIMIT OF DISTURBANCE
- EXISTING SWALE FLOW PATH
- E — EXISTING ELECTRICAL WIRE (AERIAL)
- E — PROPOSED ELECTRICAL WIRE (AERIAL)
- X — PROPOSED CHAIN LINK FENCE
4 FEET HIGH (ADJACENT TO RETAINING WALL)
6 FEET HIGH (ADJACENT TO BUILDINGS)
- PROPOSED ALLEY LIGHT AND POLE
- 20" — 20" WEIGHTED SEDIMENT FILTER TUBE
- ACCESS

NOTE:

1. PROVIDE SEDIMENT FILTER TUBE AROUND EACH DRAIN AND VENT (TYP.). PROVIDE TEMPORARY SUPPORT FOR ALL DRAINS AND VENTS IF IMPACTED BY EXCAVATION LIMITS, INCIDENTAL TO ITEM 9203-0101. MAINTAIN EXISTING ELEVATIONS FOR ALL DRAINS AND VENTS.

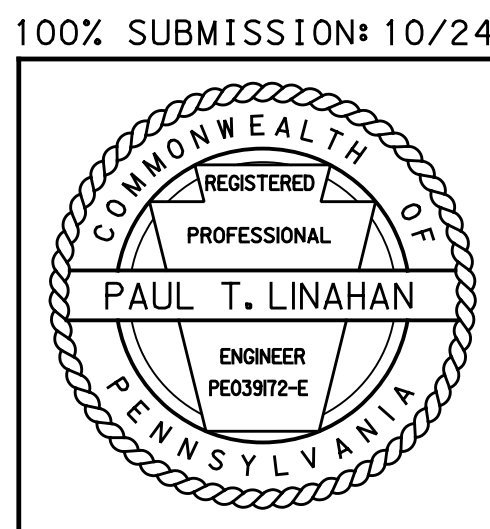


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REV	DESCRIPTION	DATE

SUBMITTED TO DEPARTMENT OF STREETS: DATE
 CITY OF PHILADELPHIA
 OFFICE OF TRANSPORTATION,
 INFRASTRUCTURE & SUSTAINABILITY
 EROSION & SEDIMENT CONTROL PLAN

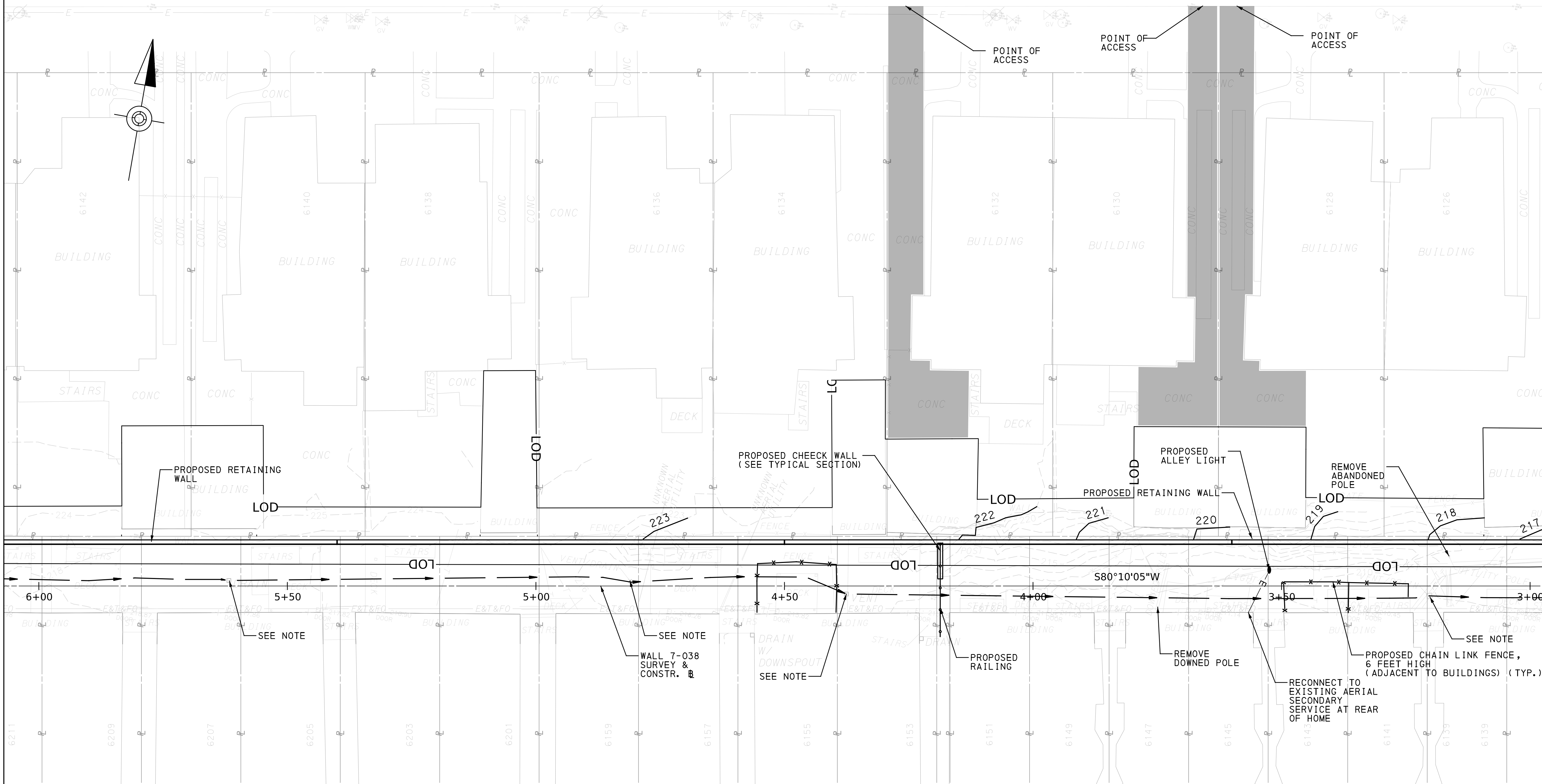
ALLEY RETAINING WALL 7-038
 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD
 STREET & NASSAU ROAD

GANNETT FLEMING, INC. SHEET 13 OF 27



100% SUBMISSION: 10/24

NASSAU ROAD



SHEET 15

SHEET 13

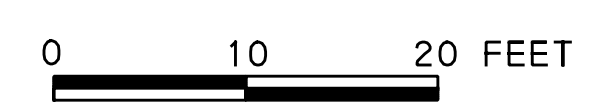
LEGEND

- 200 EXISTING CONTOUR
- 200 PROPOSED CONTOUR
- LOD LIMIT OF DISTURBANCE
- EXISTING SWALE FLOW PATH
- EXISTING ELECTRICAL WIRE (AERIAL)
- PROPOSED ELECTRICAL WIRE (AERIAL)
- PROPOSED CHAIN LINK FENCE 6 FEET HIGH (ADJACENT TO BUILDINGS)
- PROPOSED RAILING
- PROPOSED ALLEY LIGHT AND POLE
- ACCESS DRIVEWAY

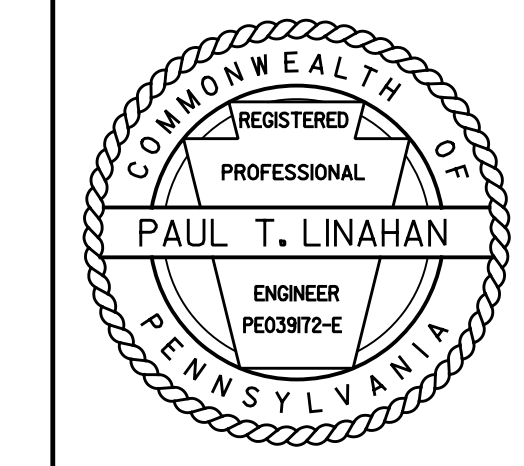
NOTE:

1. PROVIDE SEDIMENT FILTER TUBE AROUND EACH DRAIN AND VENT (TYP.). PROVIDE TEMPORARY SUPPORT FOR ALL DRAINS AND VENTS IF IMPACTED BY EXCAVATION LIMITS, INCIDENTAL TO ITEM 9203-0101. MAINTAIN EXISTING ELEVATIONS FOR ALL DRAINS AND VENTS.

SCALE



100% SUBMISSION: 10/24

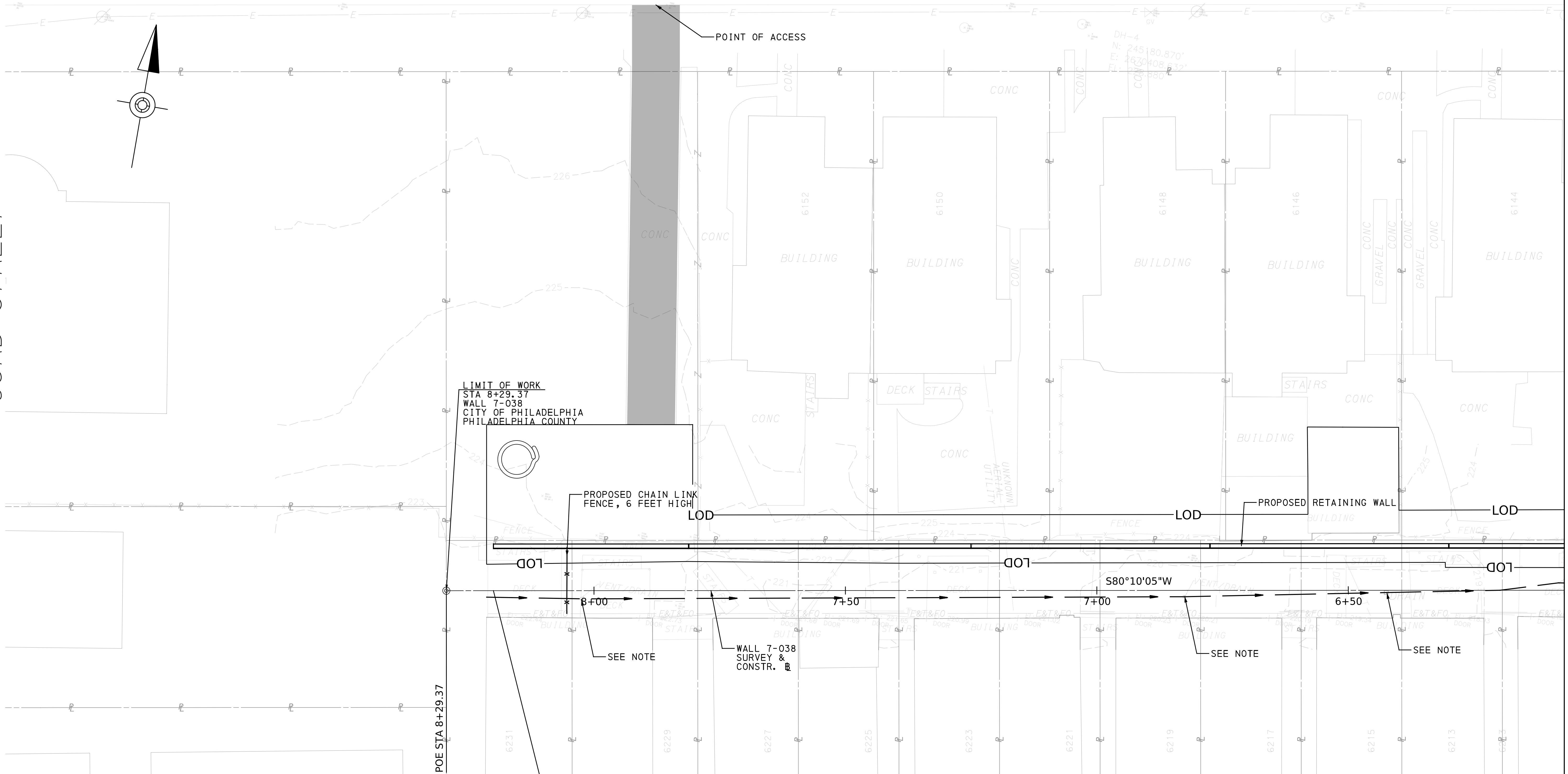


REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY EROSION & SEDIMENT CONTROL PLAN		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 14 OF 27

NASSAU ROAD

63RD STREET

SHEET 14



LEGEND

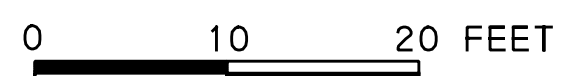
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- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- EXISTING SWALE FLOW PATH
- EXISTING ELECTRICAL WIRE (AERIAL)
- PROPOSED ELECTRICAL WIRE (AERIAL)

- PROPOSED CHAIN LINK FENCE 6 FEET HIGH (ADJACENT TO BUILDINGS)
- ACCESS
- COMPOST SOCK WASHOUT

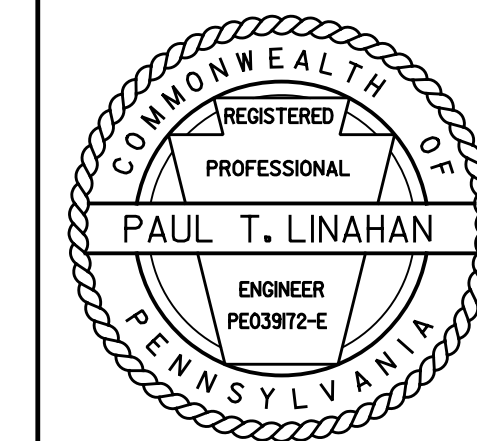
NOTE:

1. PROVIDE SEDIMENT FILTER TUBE AROUND EACH DRAIN AND VENT (TYP.). PROVIDE TEMPORARY SUPPORT FOR ALL DRAINS AND VENTS IF IMPACTED BY EXCAVATION LIMITS, INCIDENTAL TO ITEM 9203-0101. MAINTAIN EXISTING ELEVATIONS FOR ALL DRAINS AND VENTS.

SCALE

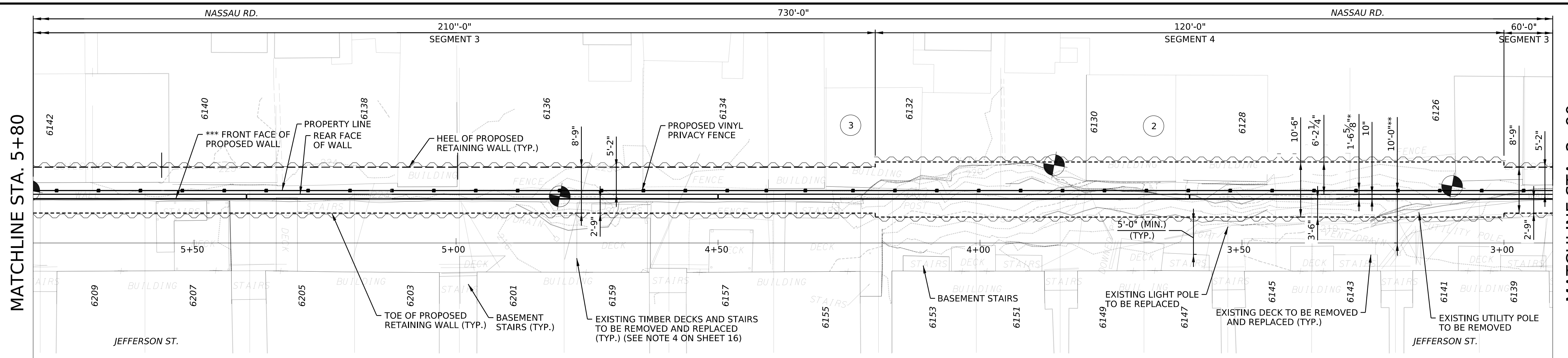


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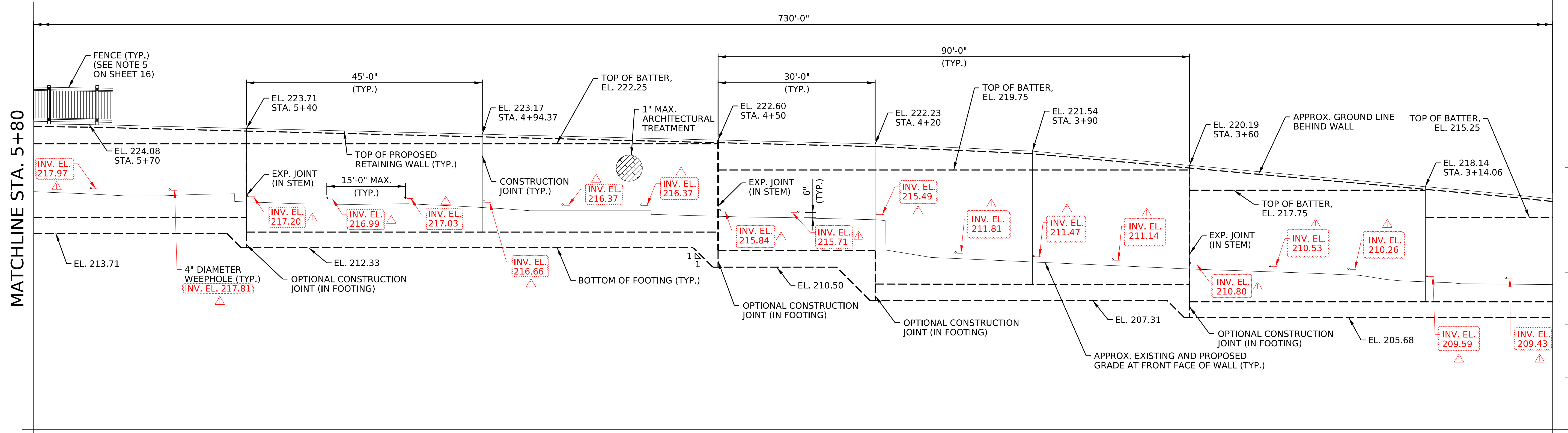


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	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY EROSION & SEDIMENT CONTROL PLAN		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 15 OF 27

FILE NAME: pw:///g/fne1-pw/bentley.com/g/fne1-pw/01/DOCUMENTS/PROJECTS/66357-W010/SHEETS/ROWY_01/STRC_SJH/W010_Retaining_wal1_Plan_and_Elevation-2.dgn PLOTTED: sdate\$ \$time\$



- *** FRONT FACE OF THE WALL IS THE AESTHETIC TREATMENT
- ** OFFSET MEASURED FROM BASELINE TO PROPERTY LINE
- * OFFSET MEASURED FROM PROPERTY LINE TO FRONT FACE OF WALL



NOTES:
1. FOR ADDITIONAL NOTES, SEE SHEET 16.

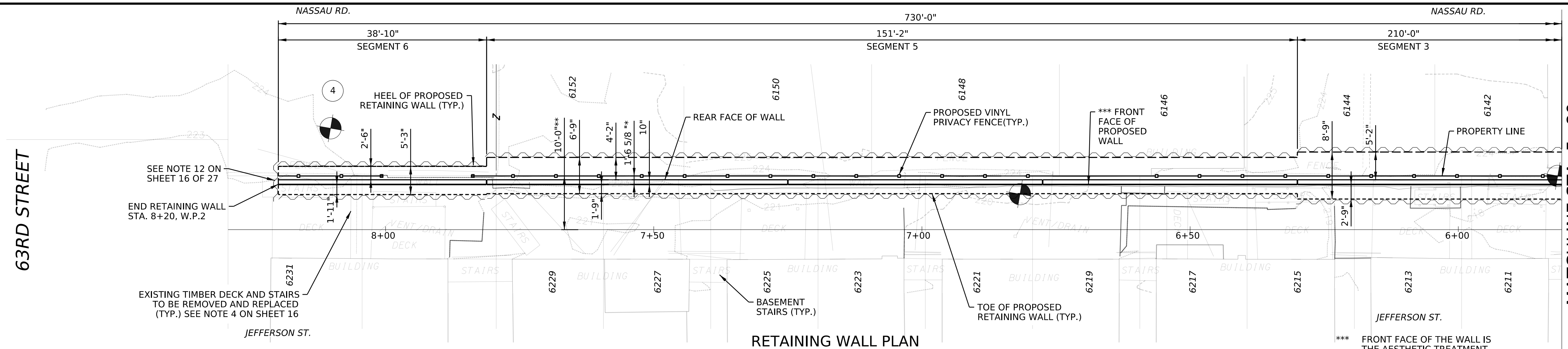
- LEGEND**
- ⊗ CONTRACTOR'S ACCESS POINTS
 - XXX--- CONTOUR LINE
 - ⊗ BORING LOCATION
 - ~~~~~~ TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM (TBD BY CONTRACTOR, SEE SPECIAL PROVISION.)
 - PROPOSED CONSTRUCTION

PREPARED BY:
SJH ENGINEERING, P.C.
PRINCETON, NJ

REV	DESCRIPTION	DATE
	WEEPHOLE ELEVATION UPDATED	12/04/24
SUBMITTED TO DEPARTMENT OF STREETS: DATE		
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
GENERAL PLAN AND ELEVATION-2		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P.C.		SHEET 17 OF 27

ADDENDUM -1

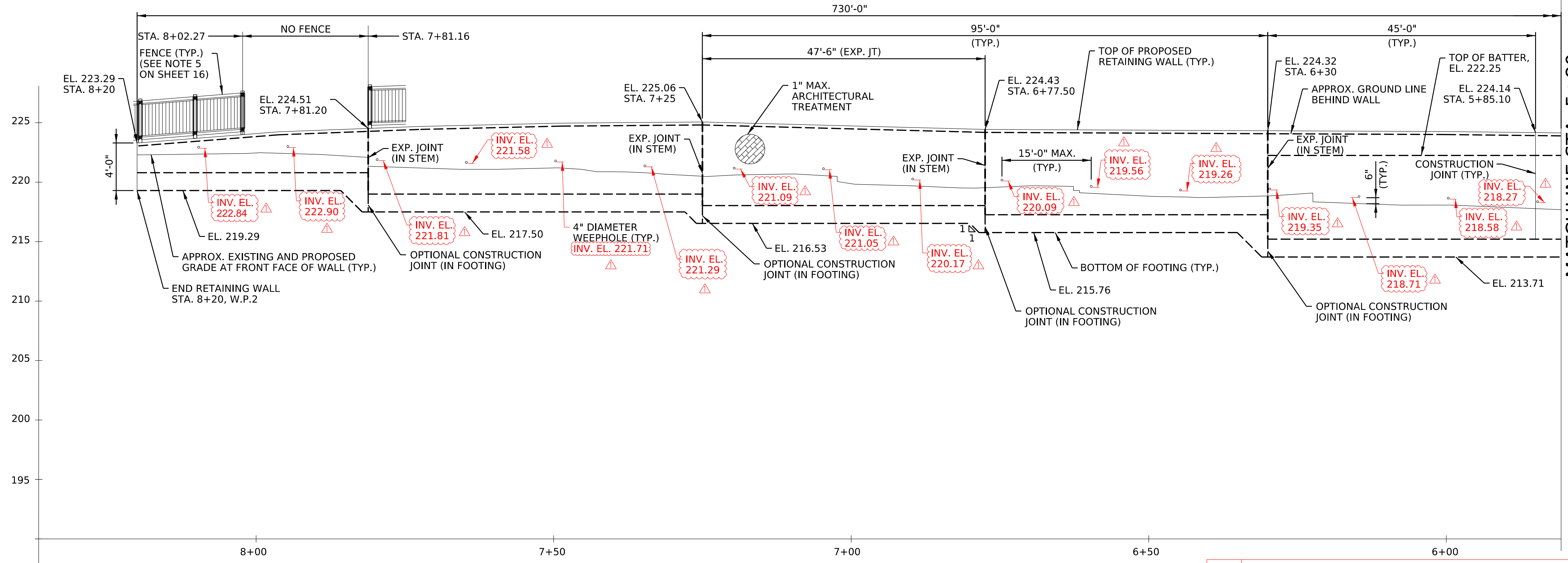
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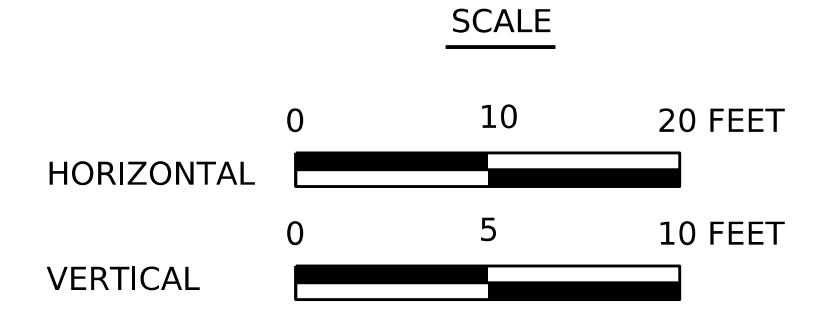
RETAINING WALL PLAN



- *** FRONT FACE OF THE WALL IS THE AESTHETIC TREATMENT
- ** OFFSET MEASURED FROM BASELINE TO PROPERTY LINE
- * OFFSET MEASURED FROM PROPERTY LINE TO FRONT FACE OF WALL



RETAINING WALL ELEVATION



NOTE:

1. FOR ADDITIONAL NOTES, SEE SHEET 16.

LEGEND

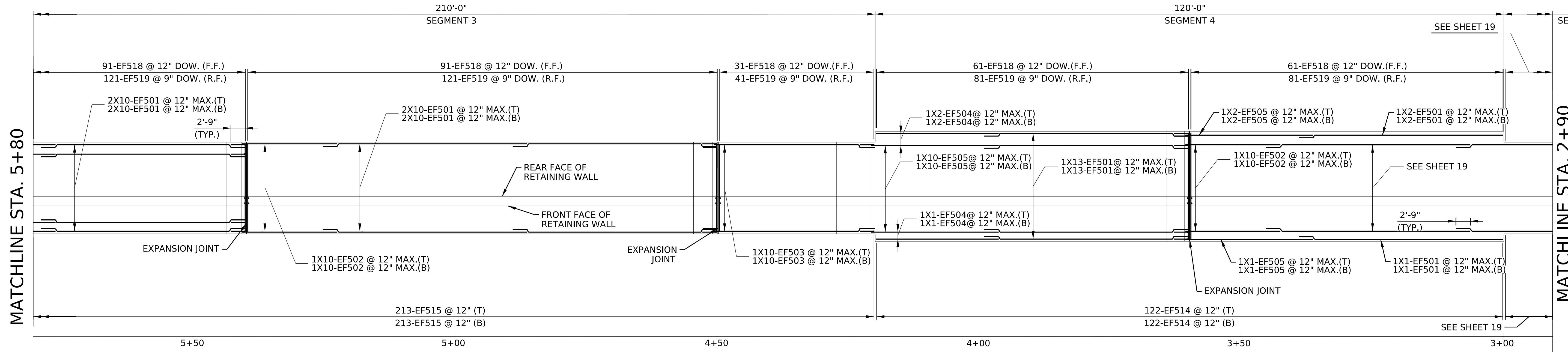
- ⊗ CONTRACTOR'S ACCESS POINTS
- XXX--- CONTOUR LINE
- ⊙ BORING LOCATION
- ~~~ TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM (TBD BY CONTRACTOR, SEE SPECIAL PROVISION.)
- PROPOSED CONSTRUCTION

PREPARED BY:
S.J.H. ENGINEERING, P.C.
PRINCETON, NJ

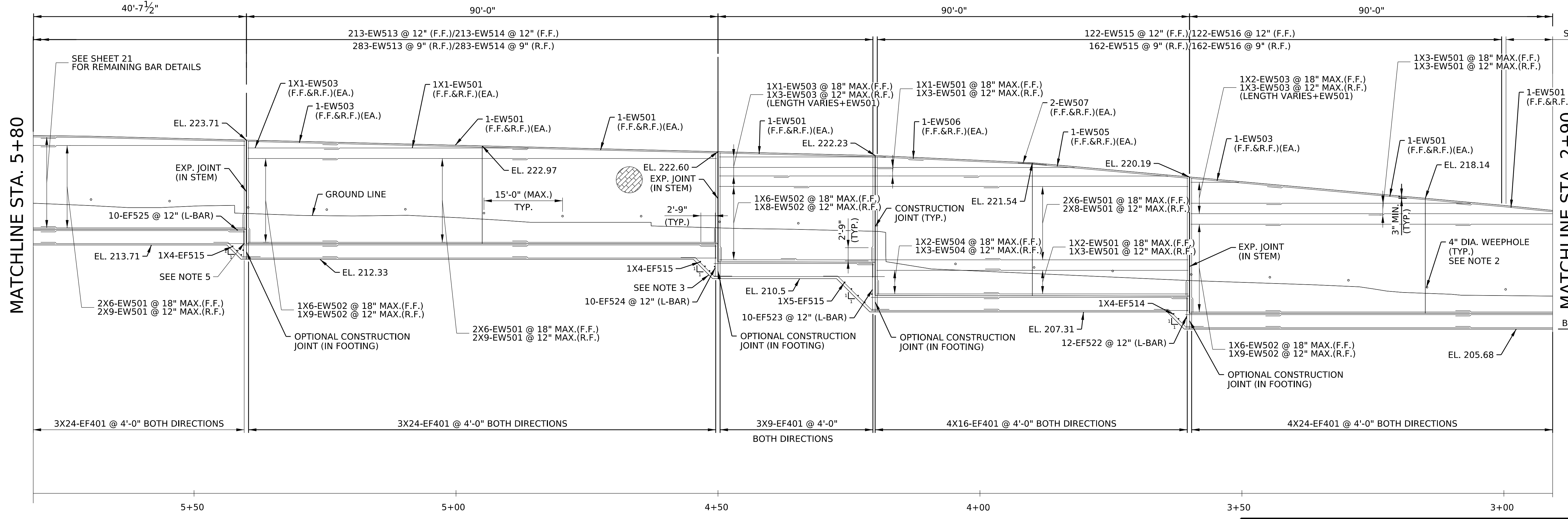
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CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY GENERAL PLAN AND ELEVATION-3		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
S.J.H. ENGINEERING, P.C.		SHEET 18 OF 27

ADDENDUM -1

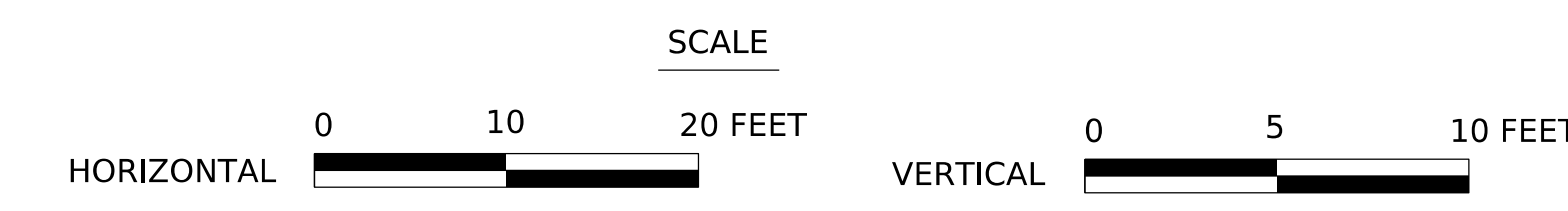
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FOOTING REINFORCEMENT PLAN-2



REINFORCEMENT ELEVATION-2



- NOTES:**
- SEE SHEET 3 FOR GENERAL AND STRUCTURAL NOTES.
 - SEE SHEETS 19 & 21 FOR ADDITIONAL REINFORCEMENT.
 - SEE SHEET 19 FOR BARS AND BAR MARKS AT HAUNCH PORTION.
 - SEE SHEETS 24 & 25 FOR WALL TYPICAL SECTIONS.
 - SEE NOTE 3 ON SHEET 24 FOR TIE-BAR LOCATION.

- LEGEND**
- E.F. : DENOTES EACH FACE
 - F.F. : DENOTES FRONT FACE
 - R.F. : DENOTES REAR FACE

PREPARED BY:
SJH ENGINEERING, P.C.
PRINCETON, NJ

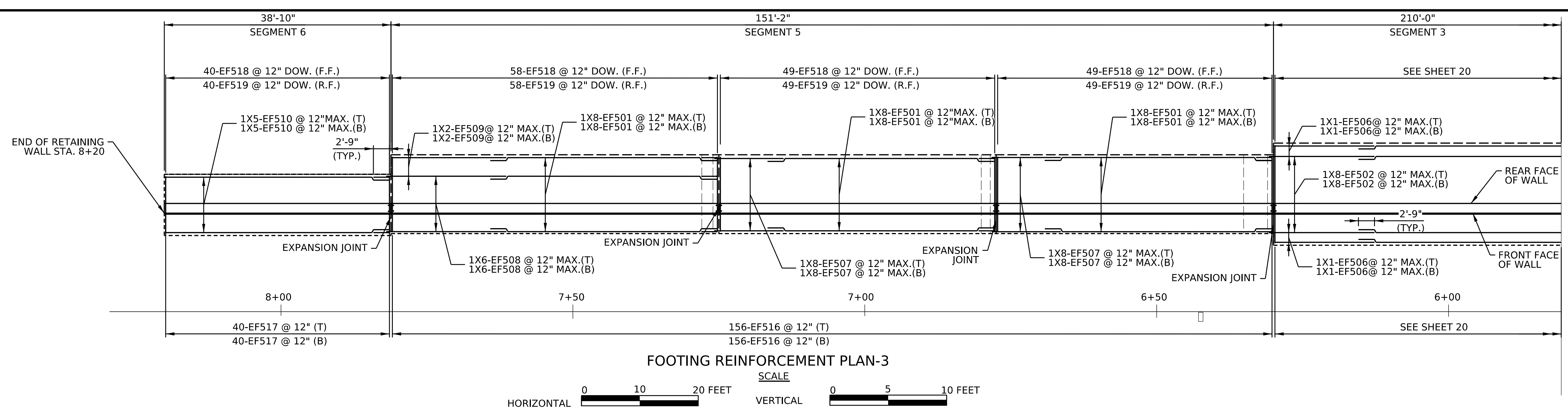
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	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
REINFORCEMENT PLAN AND ELEVATION-2		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P.C.		SHEET 20 OF 27

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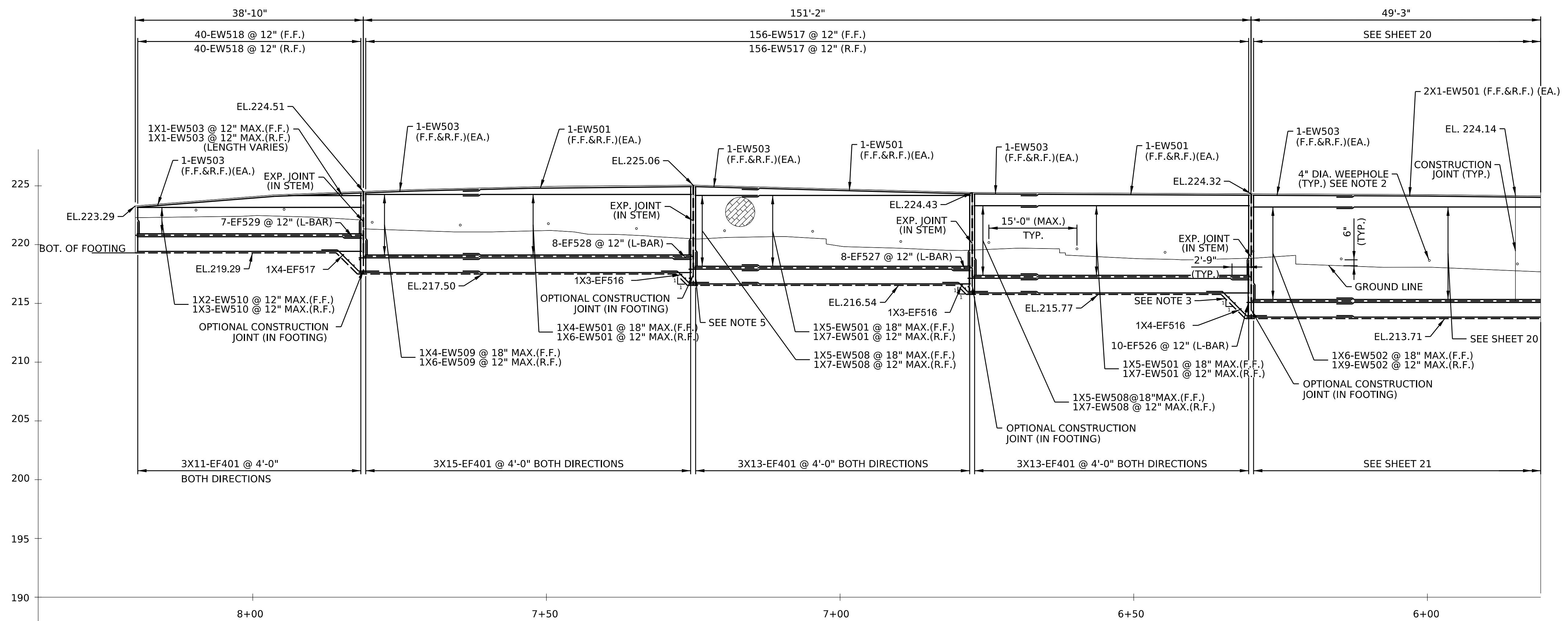
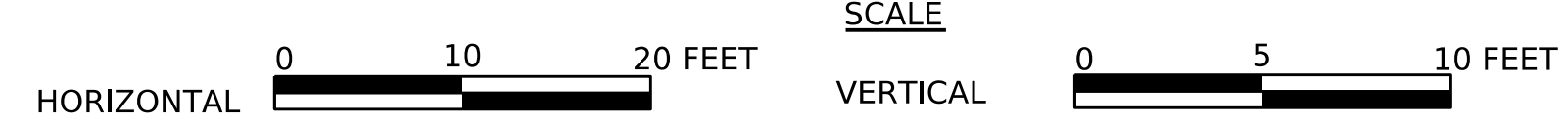
63RD STREET

END OF RETAINING WALL STA. 8+20

MATCHLINE STA. 5+80



FOOTING REINFORCEMENT PLAN-3



MATCHLINE STA. 5+80

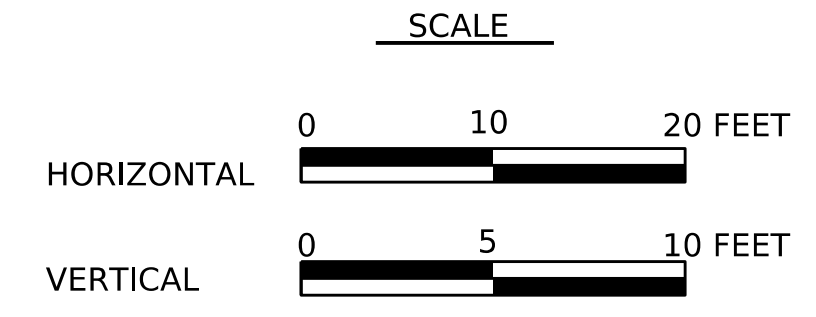
NOTES:

1. SEE SHEET 3 FOR GENERAL AND STRUCTURAL NOTES.
2. SEE SHEET 19 & 20 FOR ADDITIONAL REINFORCEMENT.
3. SEE SHEET 19 FOR BARS AND BAR MARKS AT HAUNCH PORTION.
4. SEE SHEETS 24 & 25 FOR WALL TYPICAL SECTIONS.
5. SEE NOTE 3 ON SHEET 24 FOR TIE-BAR LOCATION.

LEGEND

- E.F. : DENOTES EACH FACE
 F.F. : DENOTES FRONT FACE
 R.F. : DENOTES REAR FACE

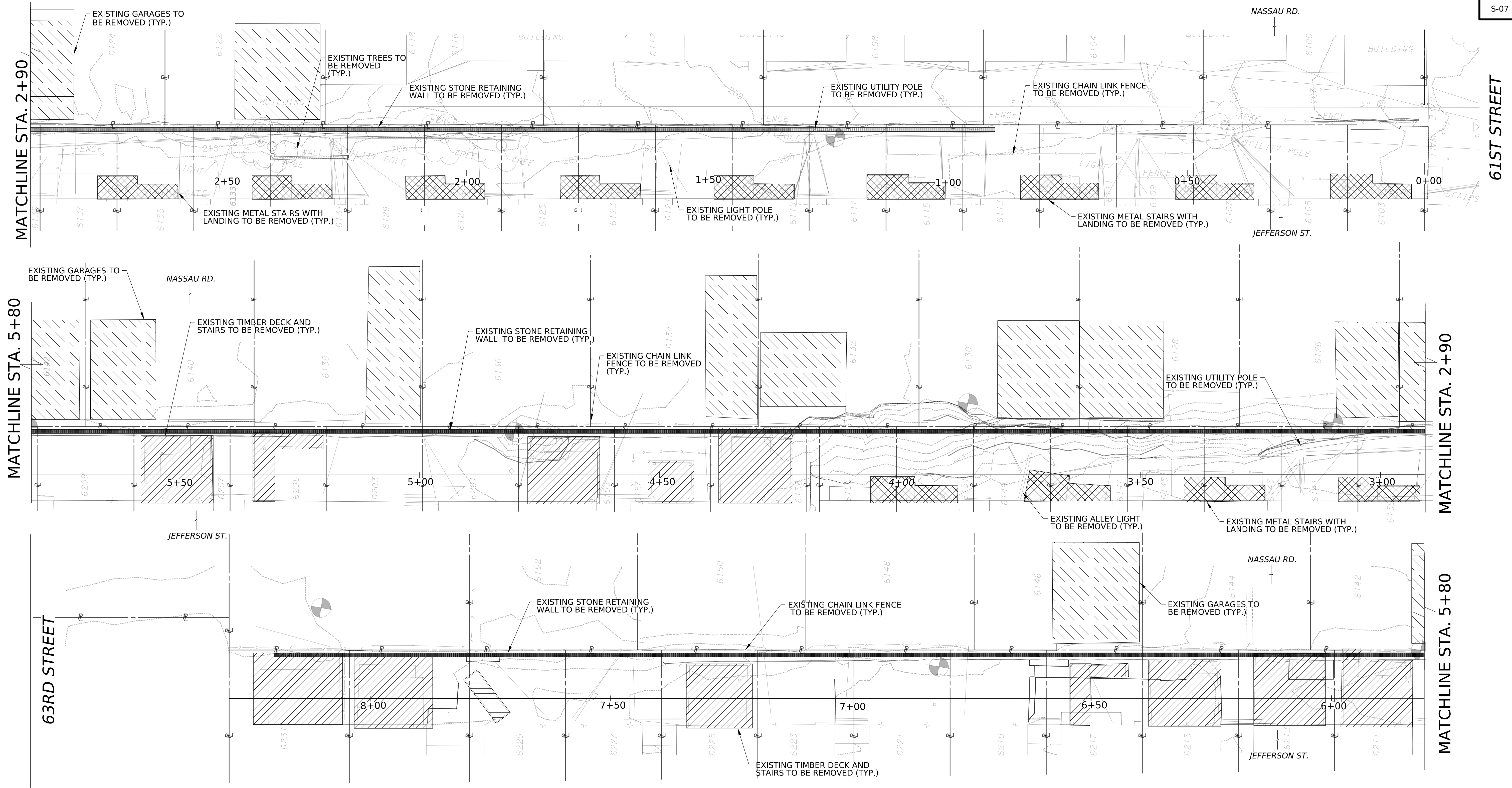
REINFORCEMENT ELEVATION-3



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REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY REINFORCEMENT PLAN AND ELEVATION-3		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P. C.		SHEET 21 OF 27

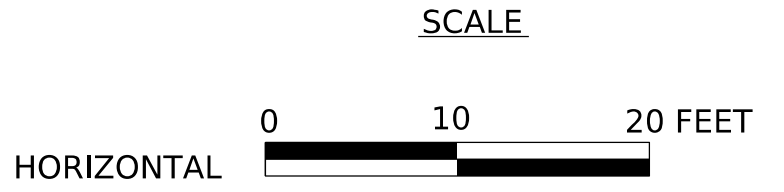
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- LEGEND**
- SEE SPECIAL PROVISION ITEM 9000-0013 REMOVAL AND RECONSTRUCTION OF TIMBER DECKS AND STAIRS.
 - SEE SPECIAL PROVISION ITEM 9000-0014 REMOVAL AND RECONSTRUCTION OF METAL LANDING AND STAIRS.
 - SEE SPECIAL PROVISION ITEM 9000-0015 TO 9000-0025 REMOVAL OF GARAGES.
 - SEE SPECIAL PROVISION ITEM 9000-0012 REMOVAL OF EXISTING STONE MASONRY WALL.

- NOTES:**
1. CONTRACTOR TO PROVIDE TEMPORARY EGRESS FOR ALL IMPACTED DECKS ON THE REAR SIDE OF BUILDINGS ON JEFFERSON ST. SIDE AS PER ITEM 9000-0026.
 2. FOR THE GARAGE REMOVAL, ANY DAMAGE TO THE EXISTING BUILDING PROPERTY SUCH AS DRIVEWAY, CURB, STEPS AND SIDEWALK ETC. SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR. THE COST OF THIS REPAIR IS THE RESPONSIBILITY OF THE CONTRACTOR.
 3. THE WORK RELATED TO ITEM 9000-0015 TO 9000-0025 REMOVAL OF GARAGES INCLUDES THE MOVING AND STORING OF GARAGE CONTENT TO TEMPORARY STORAGE PODS. SEE SPECIAL PROVISIONS.

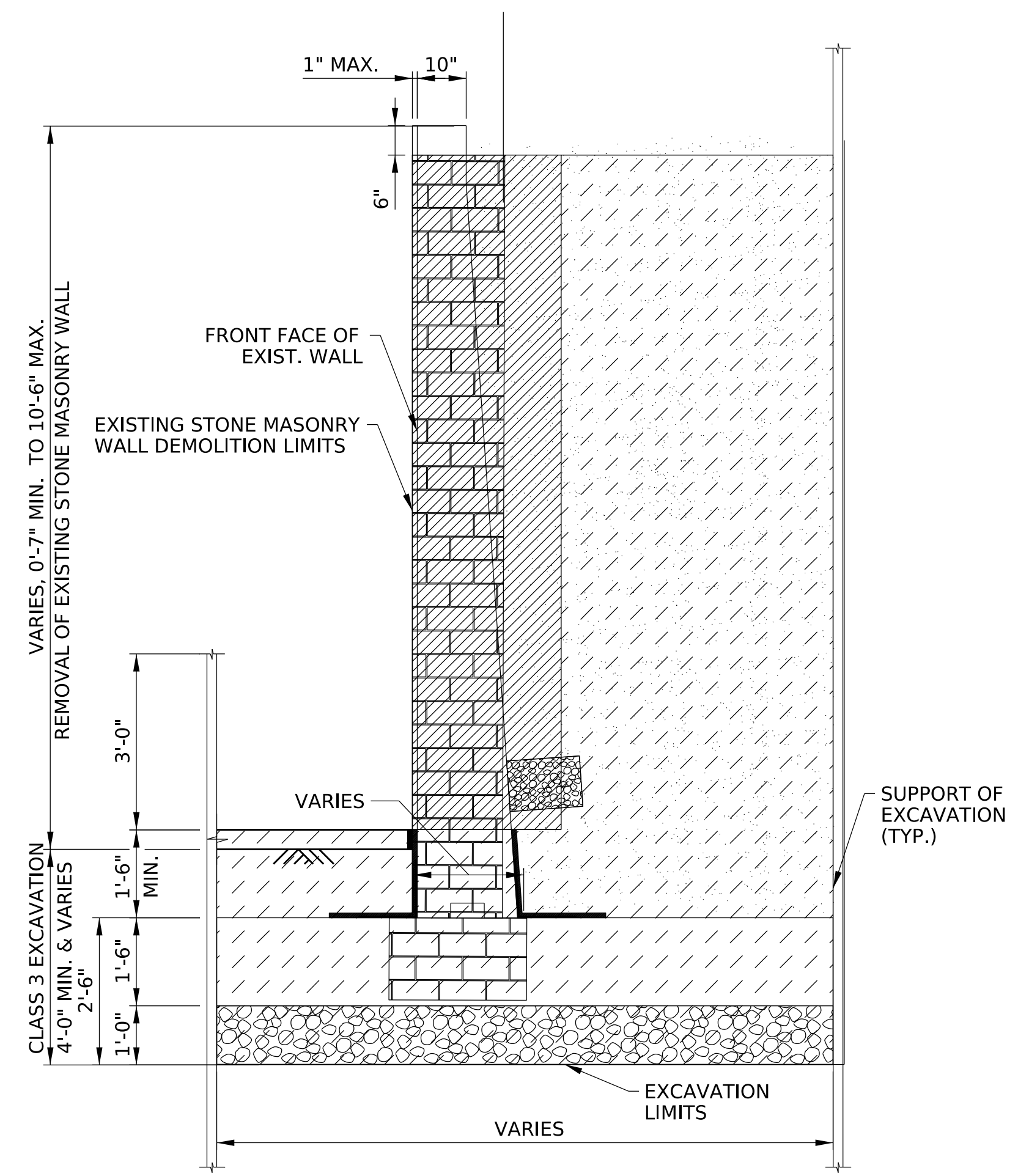
DEMOLITION PLAN



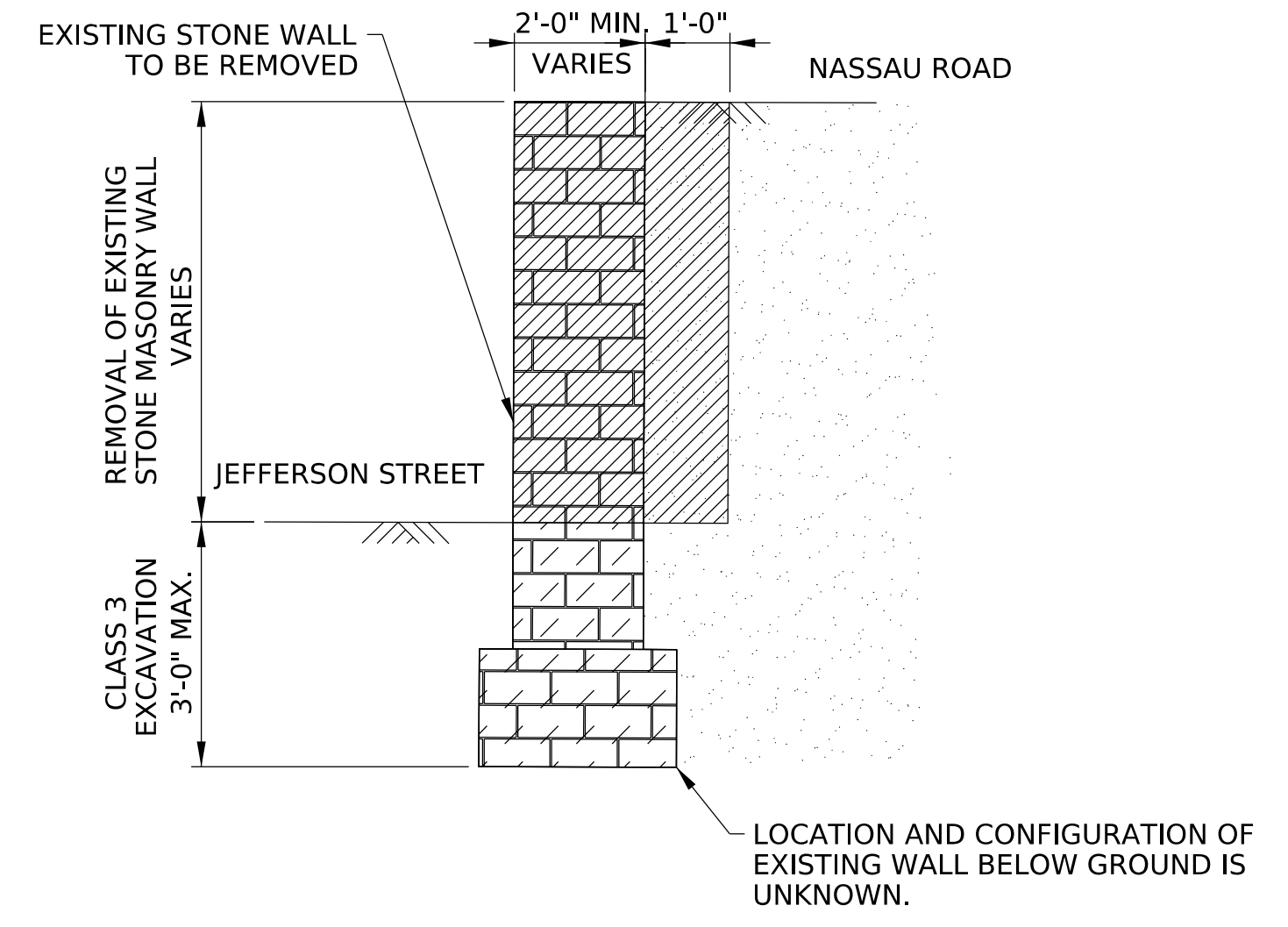
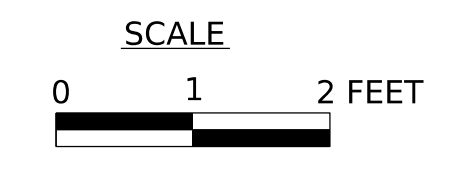
PREPARED BY:
S.J.H. ENGINEERING, P.C.
PRINCETON, NJ

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY DEMOLITION PLAN		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
S.J.H. ENGINEERING, P.C.		SHEET 22 OF 27

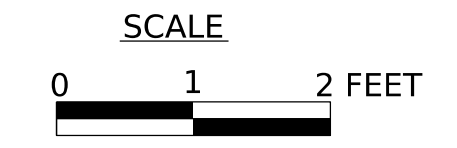
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CLASS 3 EXCAVATION LIMITS



REMOVAL OF EXISTING STONE MASONRY WALL



NOTES:

- EXISTING WALL SIZES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO THE COMMENCEMENT OF THE DEMOLITION WORK.
- EXCAVATION LIMITS FOR EXISTING WALL ARE STA. 0+90 TO 8+20.

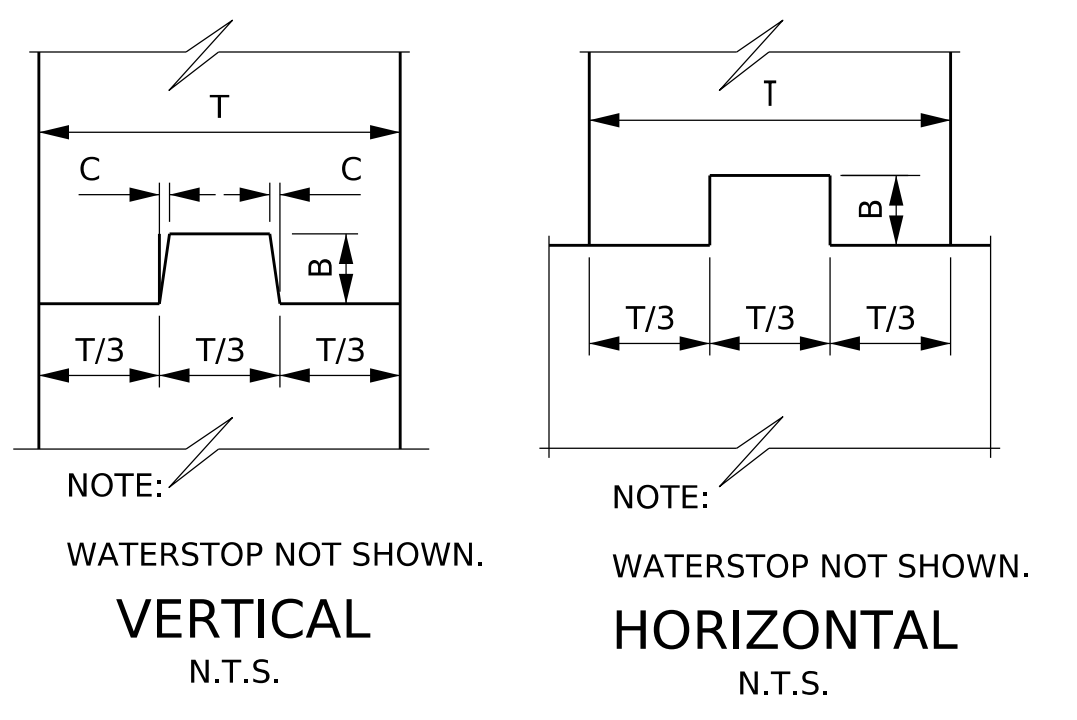
LEGEND

- SEE SPECIAL PROVISION ITEM 9000-0012 REMOVAL OF EXISTING STONE MASONRY WALL.
- CLASS 3 EXCAVATION LIMITS

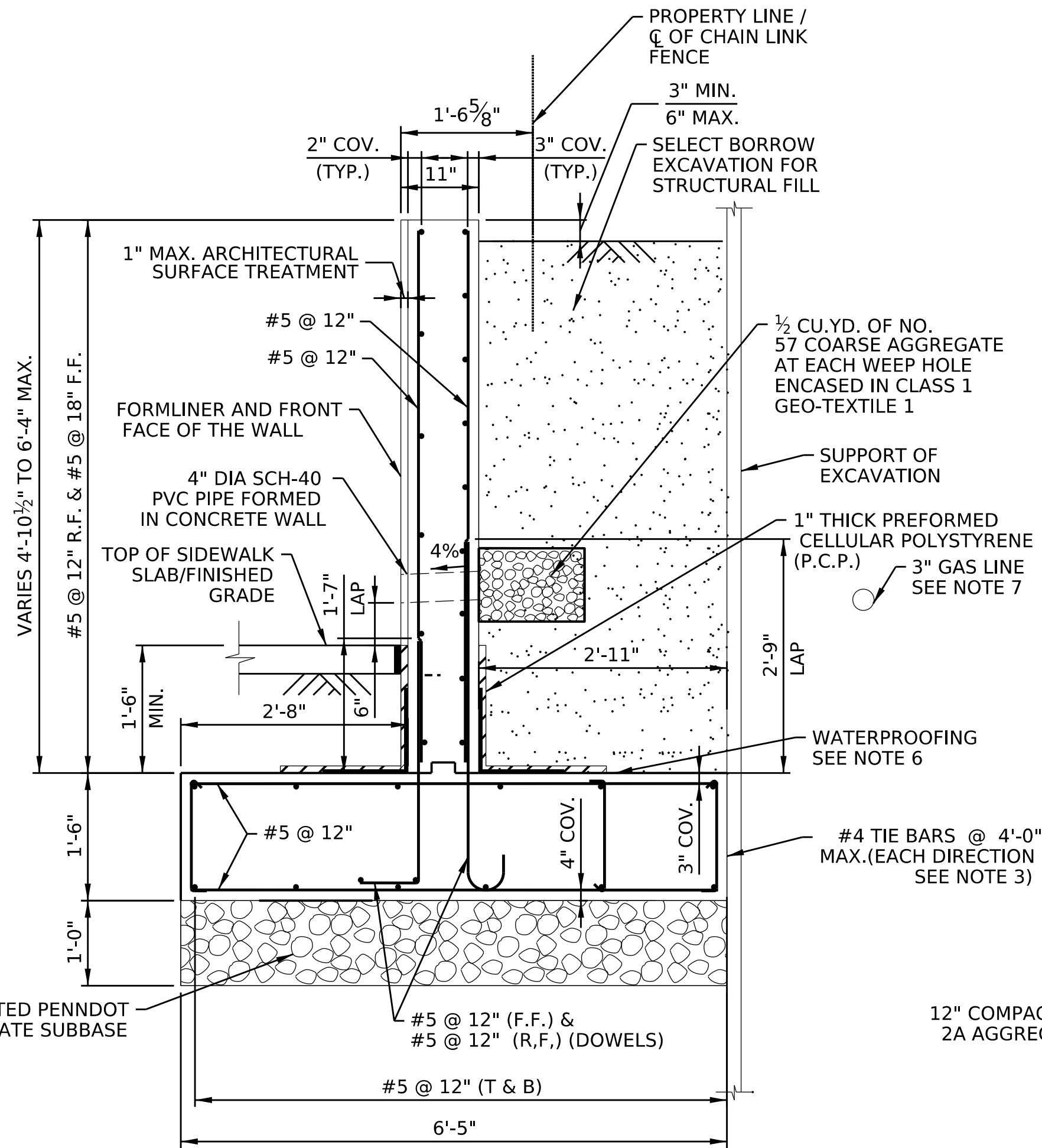
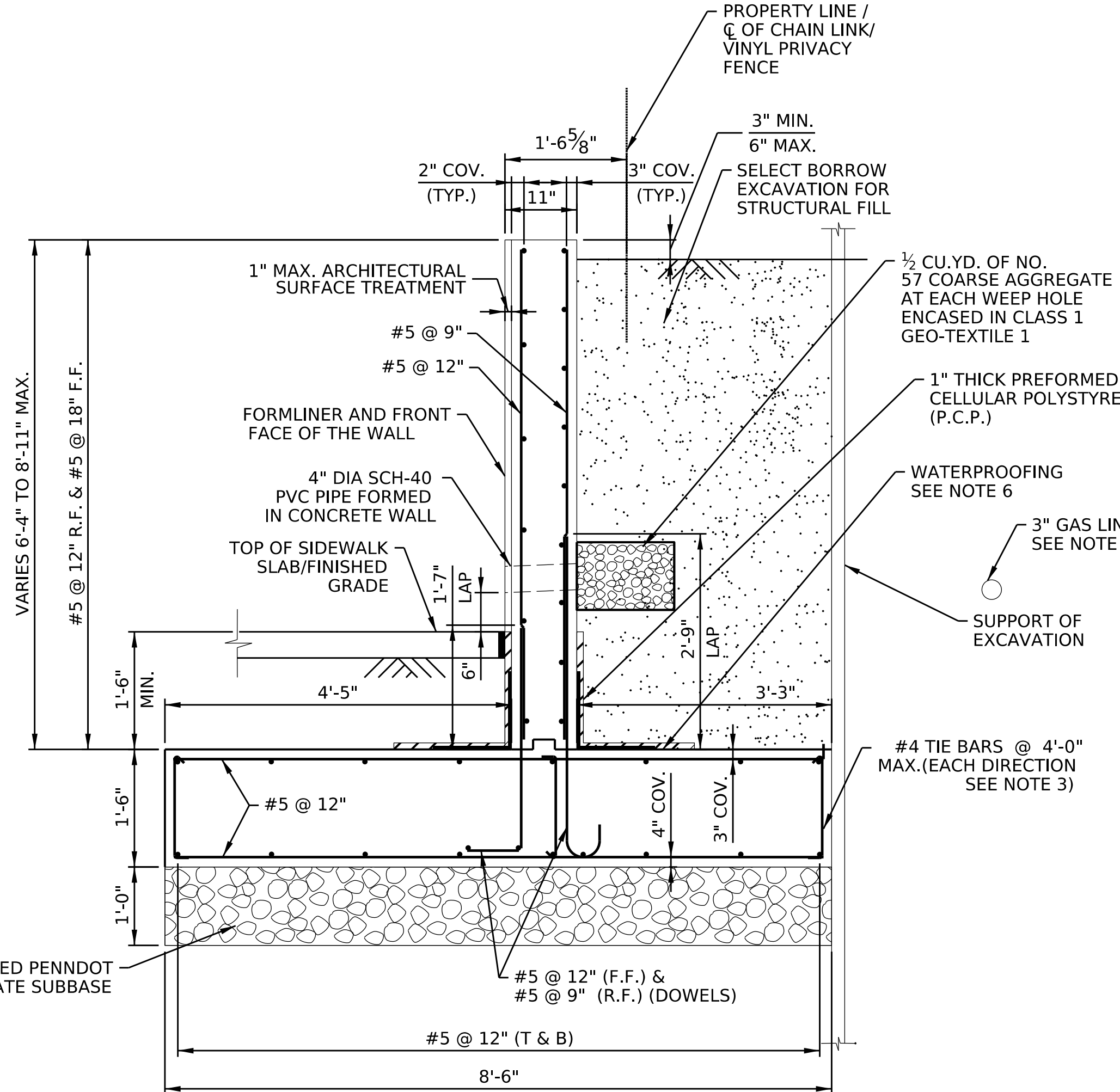
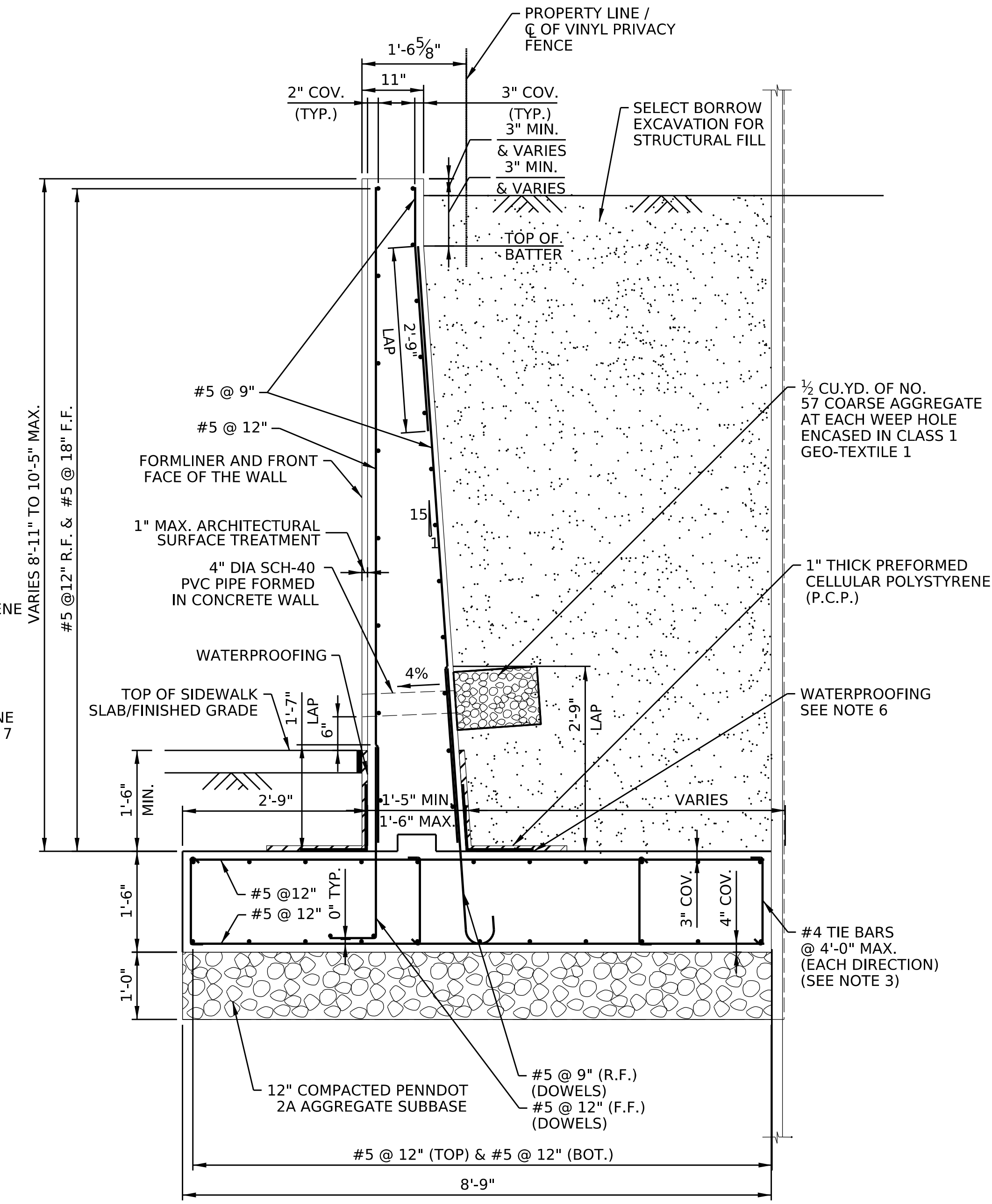
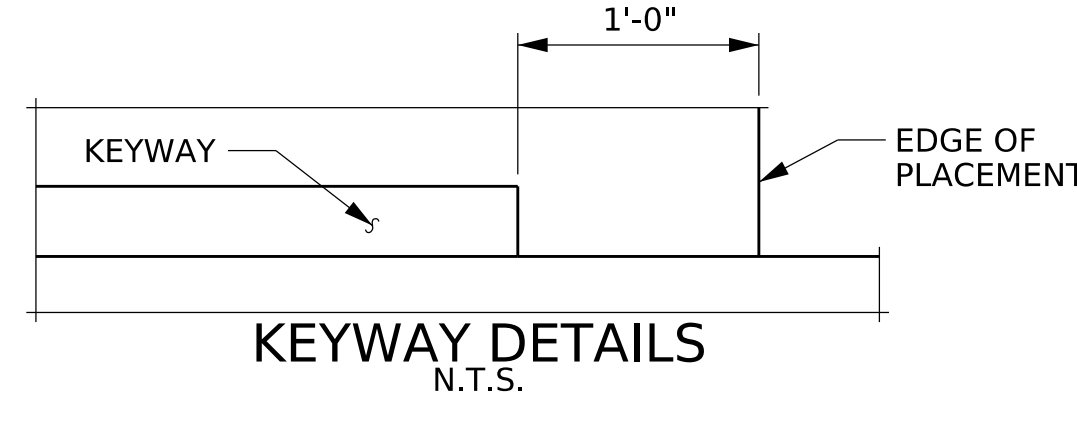
PREPARED BY:
S.J.H. ENGINEERING, P.C.
PRINCETON, NJ

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
EXCAVATION DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
S.J.H. ENGINEERING, P.C.		SHEET 23 OF 27

STATION	SEGMENT TYPE	ESTIMATED LENGTH	MAX. STEM HEIGHT (FT)
0+90.00 THRU 1+20.00	1	30'-0"	4'-10½"
1+20.00 THRU 1+50.00	1	30'-0"	6'-4"
1+50.00 THRU 2+10.00	2	60'-0"	7'-9"
2+10.00 THRU 2+40.00	2	30'-0"	8'-11"
2+40.00 THRU 2+70.00	3	30'-0"	10'-5"
2+70.00 THRU 3+00.00	3	30'-0"	9'-10"
3+00.00 THRU 4+20.00	4	120'-0"	13'-5"
4+20.00 THRU 5+40.00	3	120'-0"	10'-3"
5+40.00 THRU 6+30.00	3	90'-0"	9'-1¼"
6+30.00 THRU 7+25.00	5	95'-0"	7'-1½"
7+25.00 THRU 7+81.20	5	56'-1"	6'-1"
7+81.20 THRU 8+20.00	6	38'-10"	3'-9"



CONSTRUCTION JOINTS		
C	B	T/3
¾"	1½"	0 TO 6"
¾"	3½"	6" TO 10"
¾"	5½"	10" AND OVER



SEGMENT 1

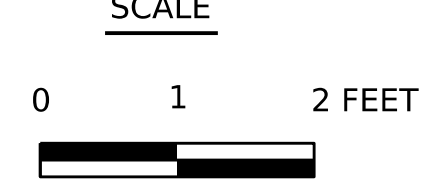
SEGMENT 2

SEGMENT 3

NOTES:

- FOR ADDITIONAL NOTES, SEE SHEET 19.
- VINYL PRIVACY FENCE NOT SHOWN ON SECTIONS FOR CLARITY.
- TIE TOP AND BOTTOM MATS OF REINFORCING STEEL IN THE FOOTING WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BAR WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP ON ADJACENT TIES.
- FOR WALL INFORMATION, SEE TABLE ON SHEET 25.
- FOR BAR SIZES AND SPACING, SEE SHEET 16 & 17.
- FOR WATERPROOFING MEMBRANE AT F.F. AND R.F. OF RETAINING WALL STEM, SEE BC 788M.
- THE EXACT LOCATION OF THE GAS LINE IS UNKNOWN. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BEGINNING OF WORK.

RETAINING WALL SECTIONS

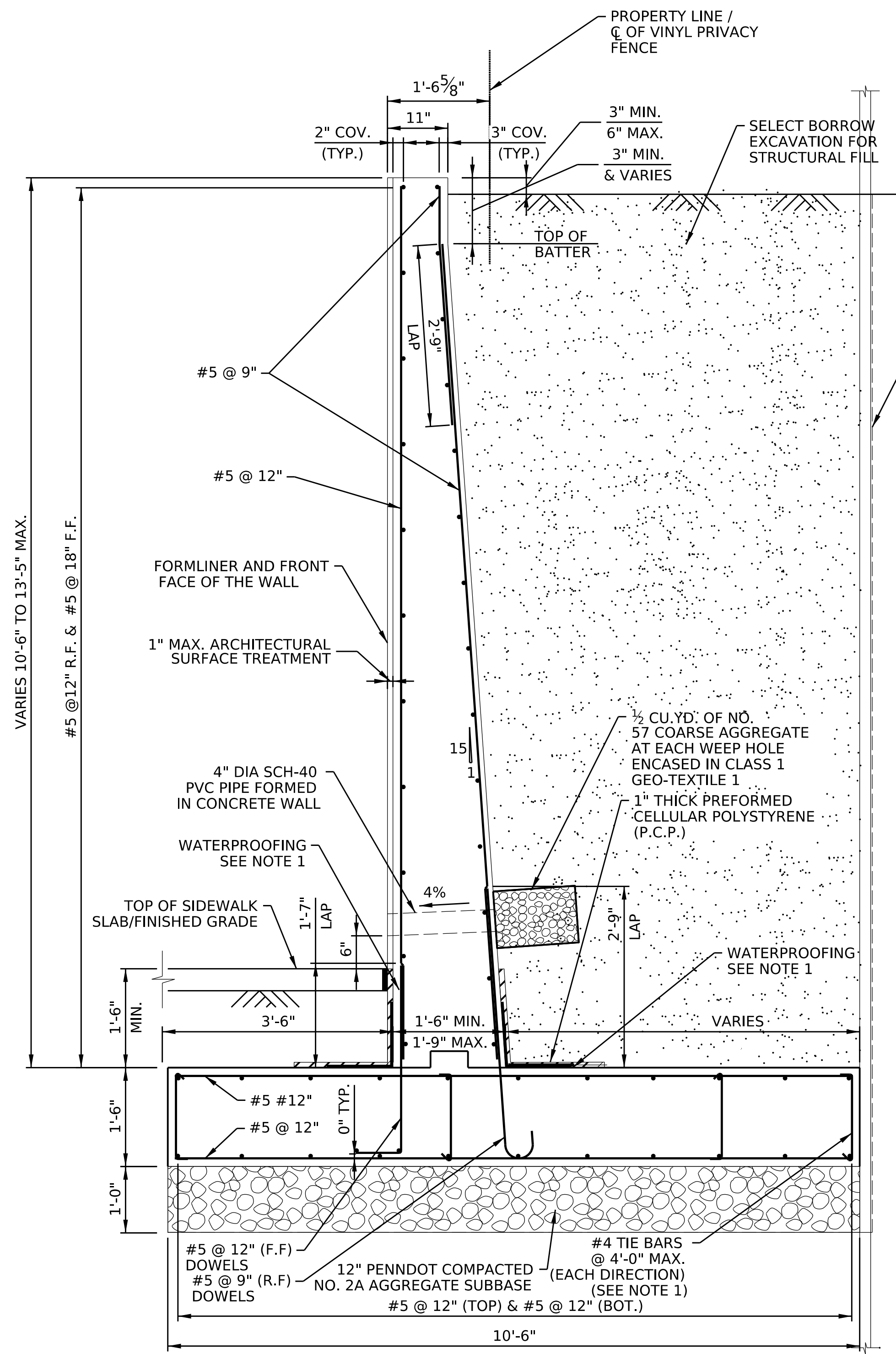


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PRINCETON, NJ

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY RETAINING WALL SECTION-I		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
S.J.H. ENGINEERING, P.C.		SHEET 24 OF 27

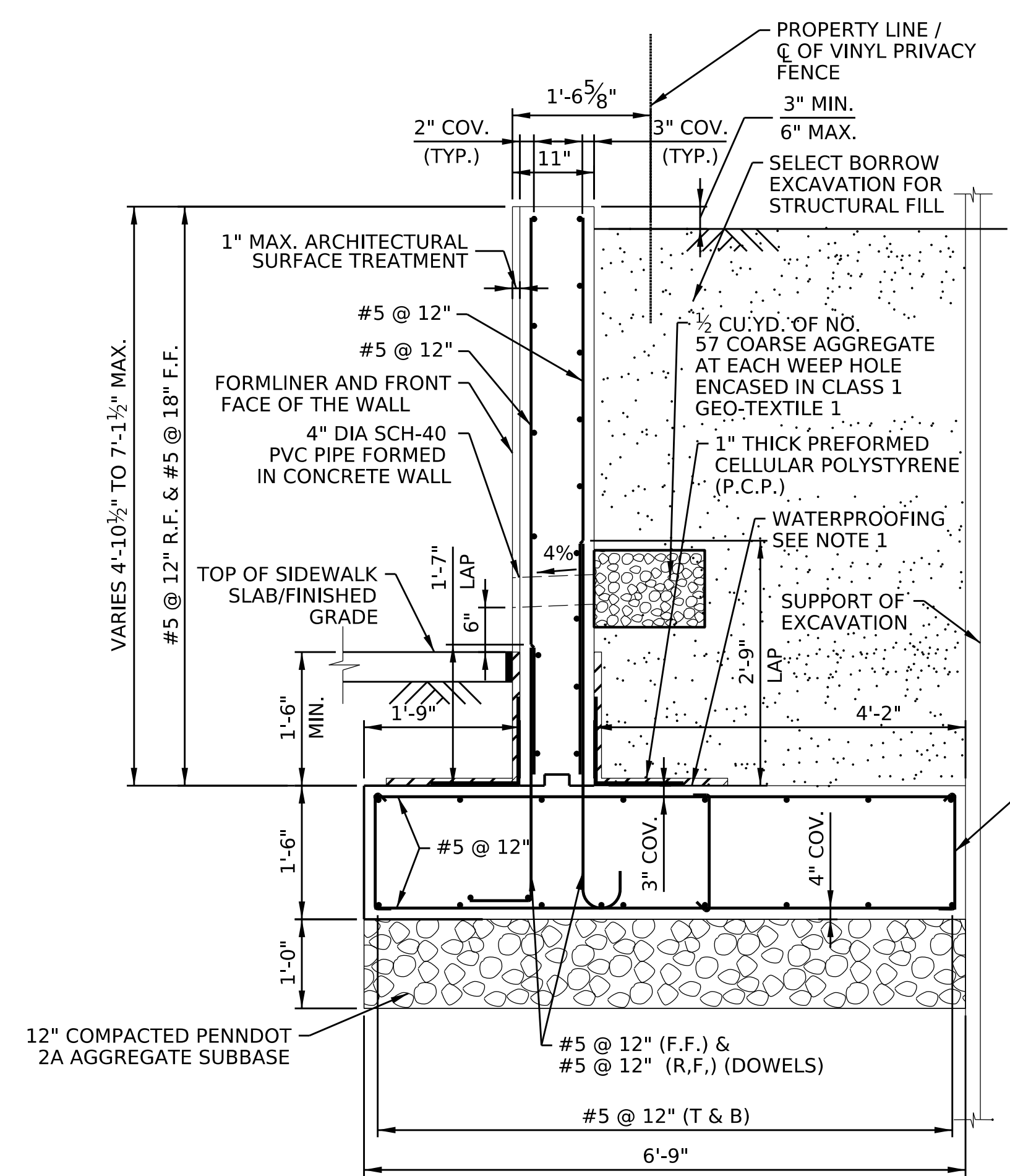
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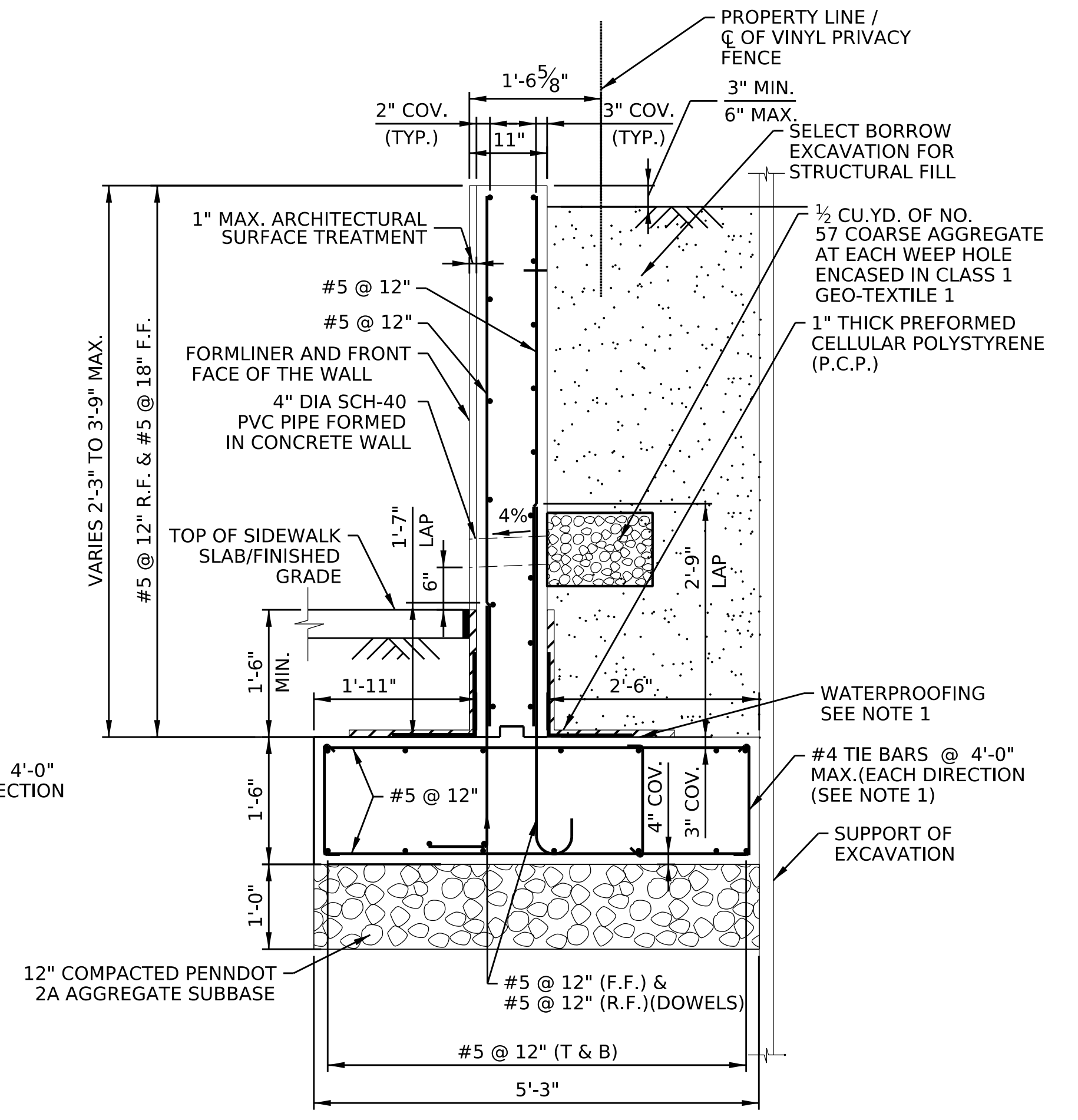


SEGMENT 4
RETAINING WALL SECTIONS
 SCALE
 0 1 2 FEET

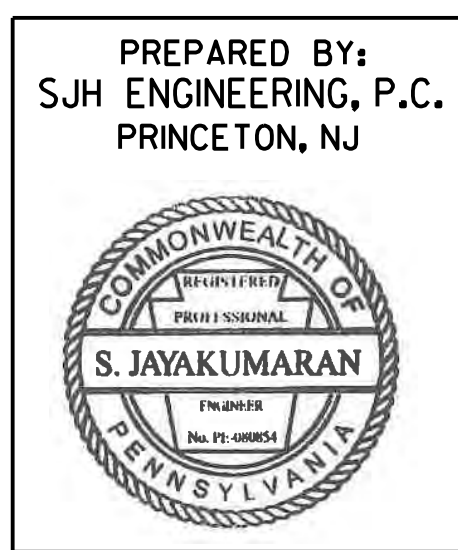
NOTES:
 1. FOR NOTES, SEE SHEET NO.24.



SEGMENT 5



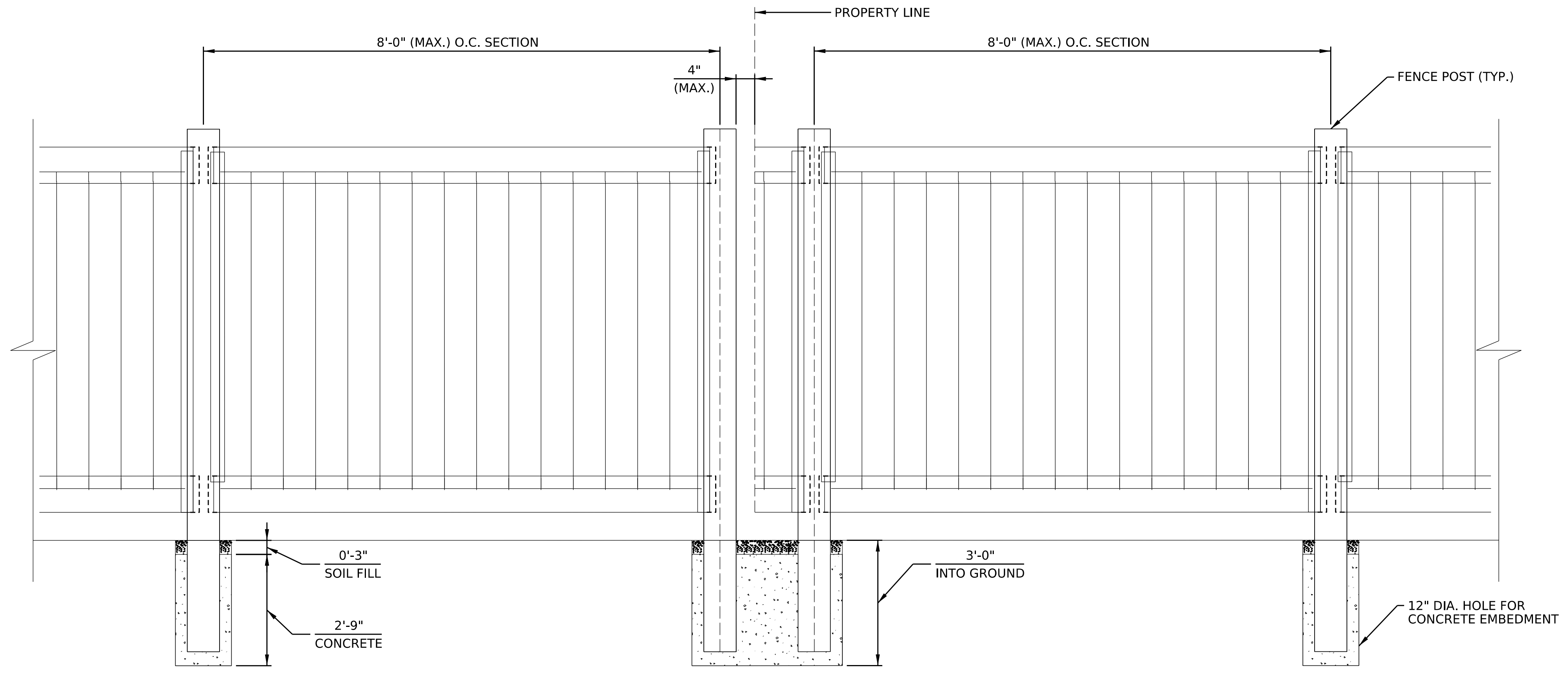
SEGMENT 6



PREPARED BY:
 SJH ENGINEERING, P.C.
 PRINCETON, NJ

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	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY RETAINING WALL SECTION-II		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P.C.		SHEET 25 OF 27

FILE NAME: p:\gfiles\pw\beniley.com\gfiles\pw\01\Documents\Projects\6635T_W010\SHEETS\RDWY_01\STRC_SuH\W010_Retaining_wall_Fence_Details.dgn




ITEM 9000-0030 - 6' WHITE VINYL FENCE
TYPICAL FENCE PANEL
 N.T.S

NOTES:

1. RESIDENT ENGINEER SHALL EVALUATE PROPERTIES NEAR THE PROPERTY LINE THAT MAY OBSTRUCT FENCE PLACEMENT ON A CASE BY CASE BASIS.
2. FOR FENCE LIMITS, SEE SHEETS 16 THRU 18.

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 PRINCETON, NJ



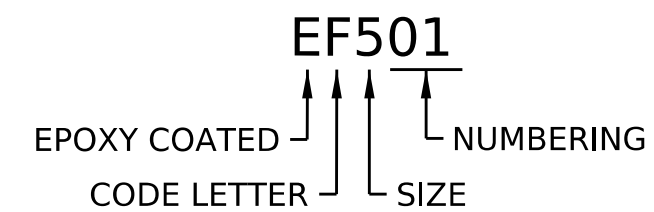
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	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY FENCE DETAILS		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P. C.		SHEET 26 OF 27

FILE NAME: p:\gfiles\pw\ben1\ey.com\gfiles\pw\01\Documents\Projects\66357_W010\Drawings\RDWY_01\STRC_SuH/W010_Retaining Wall_Bar_Schedule.dgn PLOTTED: \$date\$ \$time\$

REINFORCEMENT BAR SCHEDULE

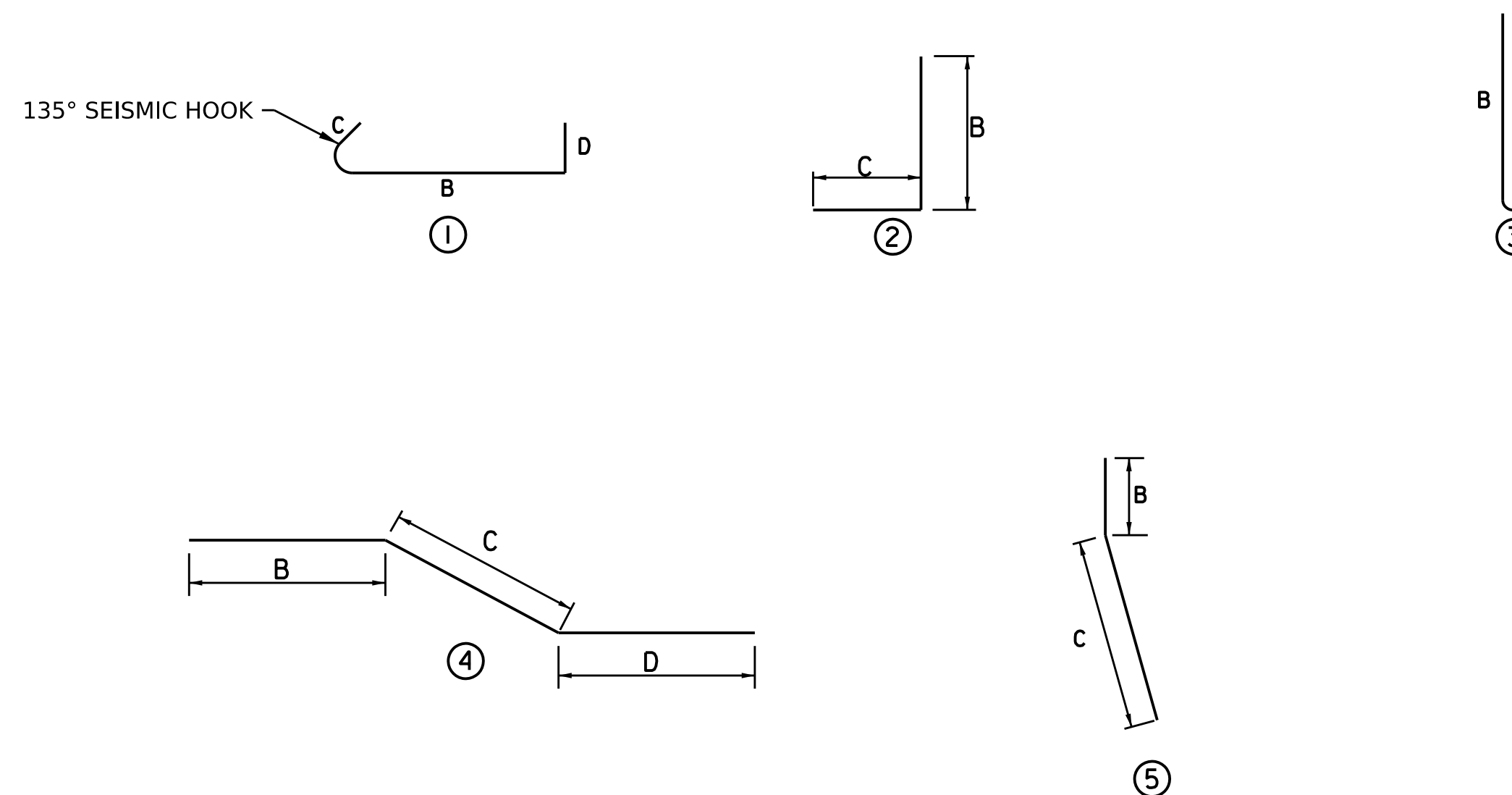
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF401	4	631	1' - 8"	1		0'-4½"	0'-11'	0'-4½"	TIE-BARS
EF501	5	266	39' -0"	STR					LONGI-TOP & BOT.
EF502	5	86	18' -1½"	STR					LONGI-TOP & BOT.
EF503	5	28	30' -7½"	STR					LONGI-TOP & BOT.
EF504	5	10	23' -3"	STR					LONGI-TOP & BOT.
EF505	5	26	24' -4½"	STR					LONGI-TOP & BOT.
EF506	5	4	17' -0"	STR					LONGI-TOP & BOT.
EF507	5	32	10' -9"	STR					LONGI-TOP & BOT.
EF508	5	12	21' -1"	STR					LONGI-TOP & BOT.
EF509	5	4	19' -11½"	STR					LONGI-TOP & BOT.
EF510	5	10	38' -9½"	STR					LONGI-TOP & BOT.
EF511	5	122	5' -10"	STR					TRANS.-TOP & BOT.
EF512	5	188	7' -11"	STR					TRANS.-TOP & BOT.
EF513	5	127	8' -2"	STR					TRANS.-TOP & BOT.
EF514	5	248	9' -11"	STR					TRANS.-TOP & BOT.
EF515	5	439	8' -2"	STR					TRANS.-TOP & BOT.
EF516	5	322	6' -2"	STR					TRANS.-TOP & BOT.
EF517	5	84	4' -8"	STR					TRANS.-TOP & BOT.
EF518	5	742	3' -7"	2		2' -9"	0' -10"		DOWEL-FF
EF519	5	902	4' -6"	3	0' -7"	3' -11"			DOWEL-RF
EF520	5	10	4' -8½"	2		1' -11½"	2' -9"		L-BAR
EF521	5	10	4' -6"	2		1' -9"	2' -9"		L-BAR
EF522	5	12	4' -5"	2		1' -8"	2' -9"		L-BAR
EF523	5	10	5' -11"	2		3' -2"	2' -9"		L-BAR
EF524	5	10	4' -7"	2		1' -10"	2' -9"		L-BAR
EF525	5	10	4' -1½"	2		1' -4½"	2' -9"		L-BAR
EF526	5	10	4' -10"	2		2' -1"	2' -9"		L-BAR
EF527	5	8	3' -6¾"	2		0' -9¾"	2' -9"		L-BAR
EF528	5	8	3' -8¾"	2		0' -11¾"	2' -9"		L-BAR
EF529	5	7	4' -7"	2		1' -10"	2' -9"		L-BAR
EF530	5	10	8'-1" TO 13'-4¾"	4		2' -9"	VARIES	3' -6"	STEP BARS
EW501	5	226	39' -0"	STR					LONGI- FF & RF
EW502	5	77	17' -0"	STR					LONGI- FF & RF
EW503	5	45	2'-3½" TO 38'-10"	STR					LONGI- FF & RF (VARIES)
EW504	5	5	22' -10"	STR					LONGI- FF & RF
EW505	5	2	29' -10½"	STR					LONGI- FF & RF
EW506	5	2	23' -7¼"	STR					LONGI- FF & RF
EW507	5	4	2' -9"	STR					LONGI- FF & RF
EW508	5	24	10' -9"	STR					LONGI- FF & RF
EW509	5	10	19' -5½"	STR					LONGI- FF & RF
EW510	5	5	38' -3½"	STR					LONGI- FF & RF
EW511	5	122	2'-11½" TO 5'-9¾"	STR					VERTICAL-FF & RF (VARIES)
EW512	5	214	5'-4" TO 8'-5"	STR					VERTICAL-FF & RF (VARIES)
EW513	5	638	3'-3½" TO 5'-10"	5		VARIES	2'-9"		VERTICAL-FF & RF
EW514	5	638	6'-9½" TO 8'-2"	STR					VERTICAL-FF & RF (VARIES)
EW515	5	285	3'-3½" TO 4'-11¾"	5		VARIES	2'-9"		VERTICAL-FF & RF
EW516	5	284	7'-9¾" TO 10'-8¾"	STR					VERTICAL-FF & RF (VARIES)
EW517	5	312	5'-0" TO 6'-8"	STR					VERTICAL-FF & RF (VARIES)
EW518	5	80	2'-6" TO 3'-2¾"	STR					VERTICAL-FF & RF (VARIES)
EW519	5	400	2'-0"	STR					WEEPHOLE REBAR

BAR MARK LEGEND:



CODE LETTERS FOR BAR MARKS:

W = WALL
F = FOOTING



PREPARED BY:
SJH ENGINEERING, P.C.
PRINCETON, NJ

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA OFFICE OF TRANSPORTATION, INFRASTRUCTURE & SUSTAINABILITY		
REINFORCEMENT BAR SCHEDULE		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P.C.		SHEET 27 OF 27