

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.

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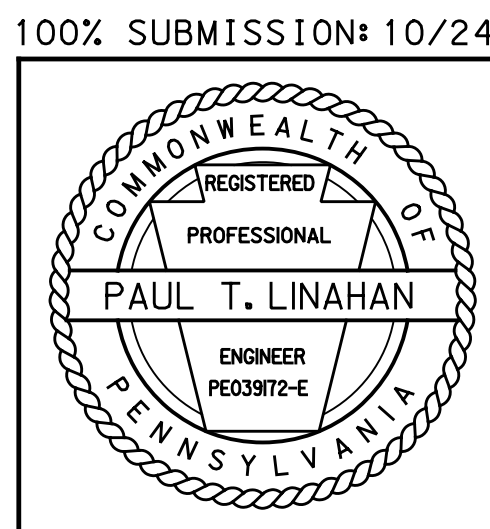
EARTHWORK SUMMARY ENTIRE PROJECT

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.



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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.

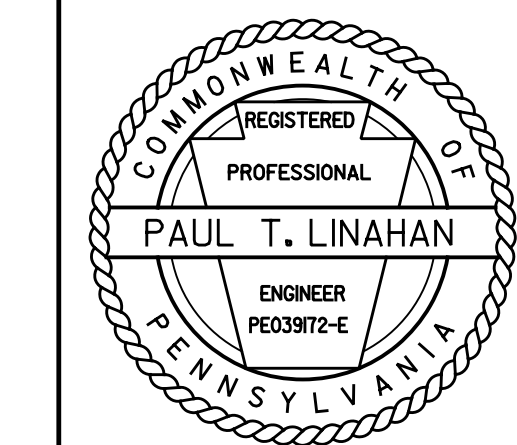
WALL BACKFILL:

- 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 DEPARTMENT OF STREETS		
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*

* SEE SPECIAL PROVISIONS

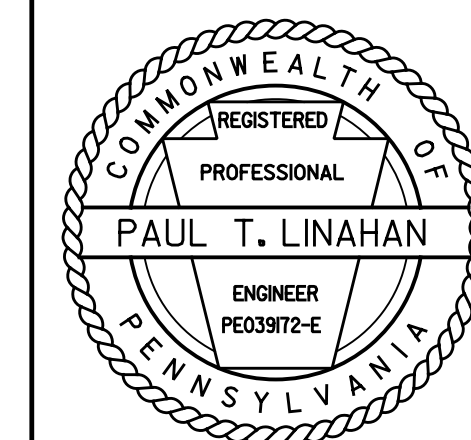
NOTES:

- 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.

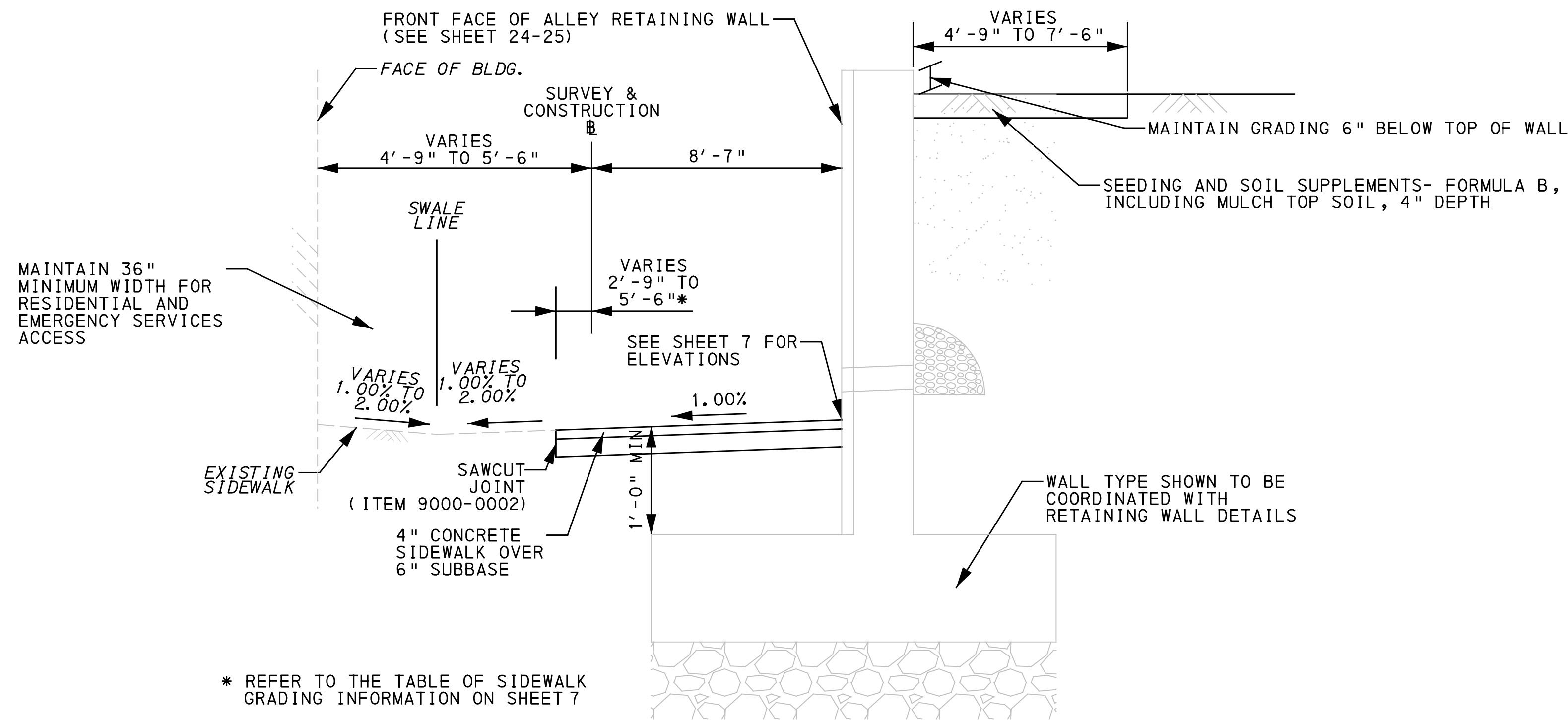
ALTERNATE STRUCTURE ITEMS

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

100% SUBMISSION: 10/24



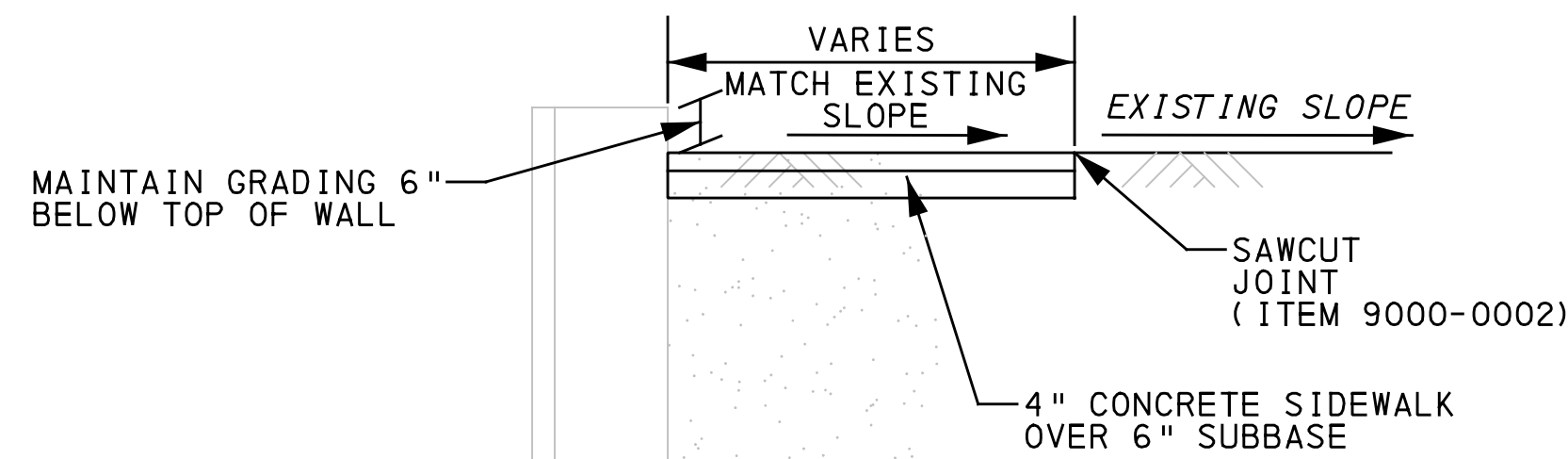
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CITY OF PHILADELPHIA DEPARTMENT OF STREETS		
QUANTITIES SUMMARY		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 4 OF 27



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

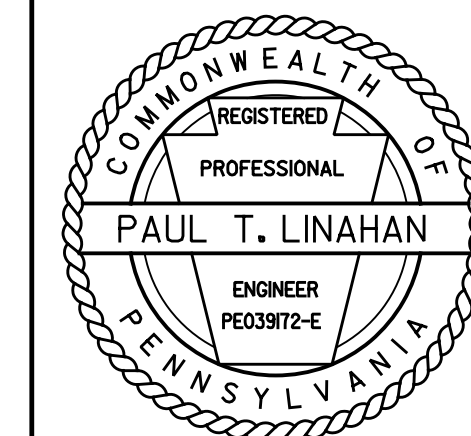
ALLEY SIDEWALK GRADING TYPICAL SECTION

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



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GANNETT FLEMING, INC.		SHEET 6 OF 27

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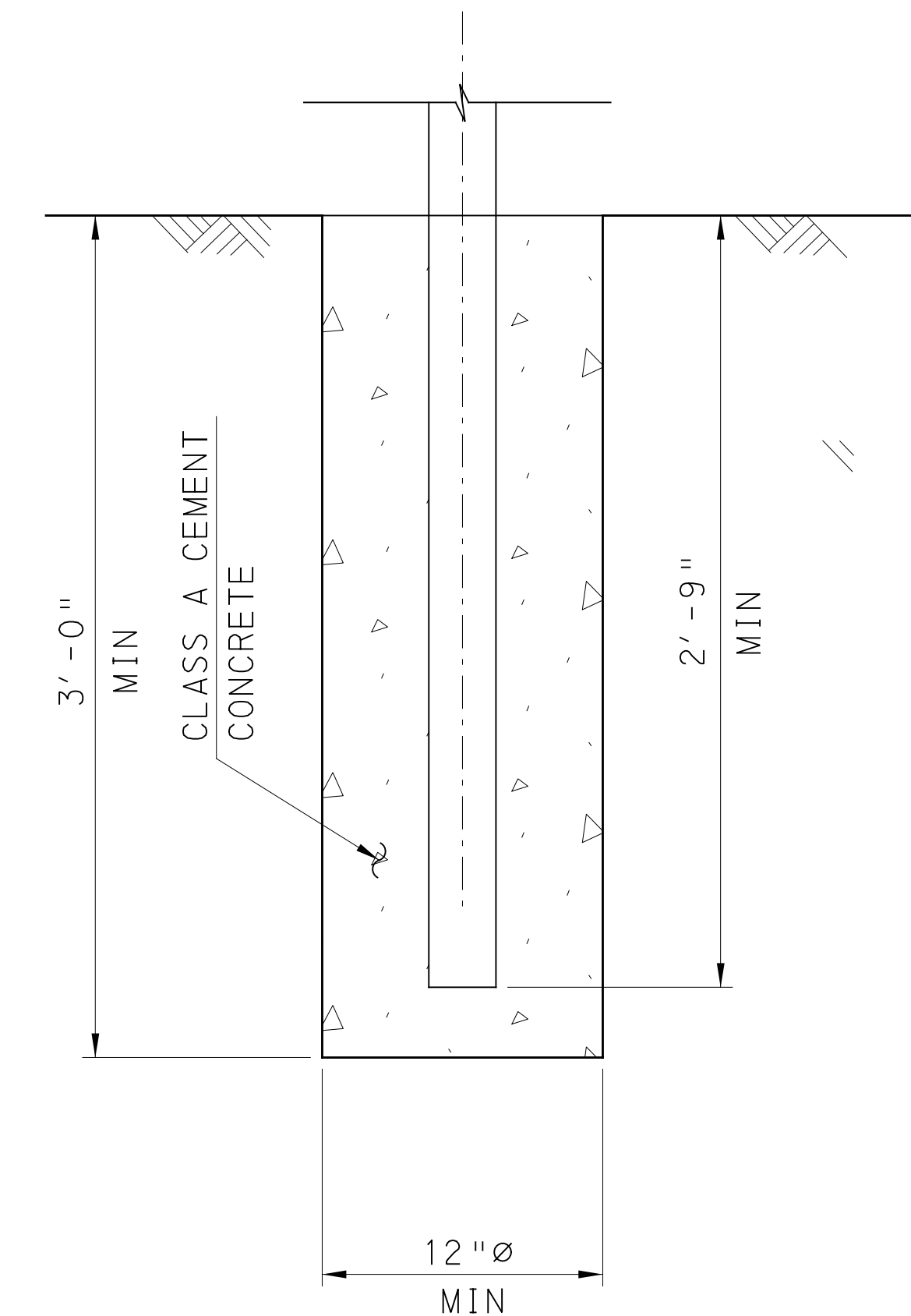
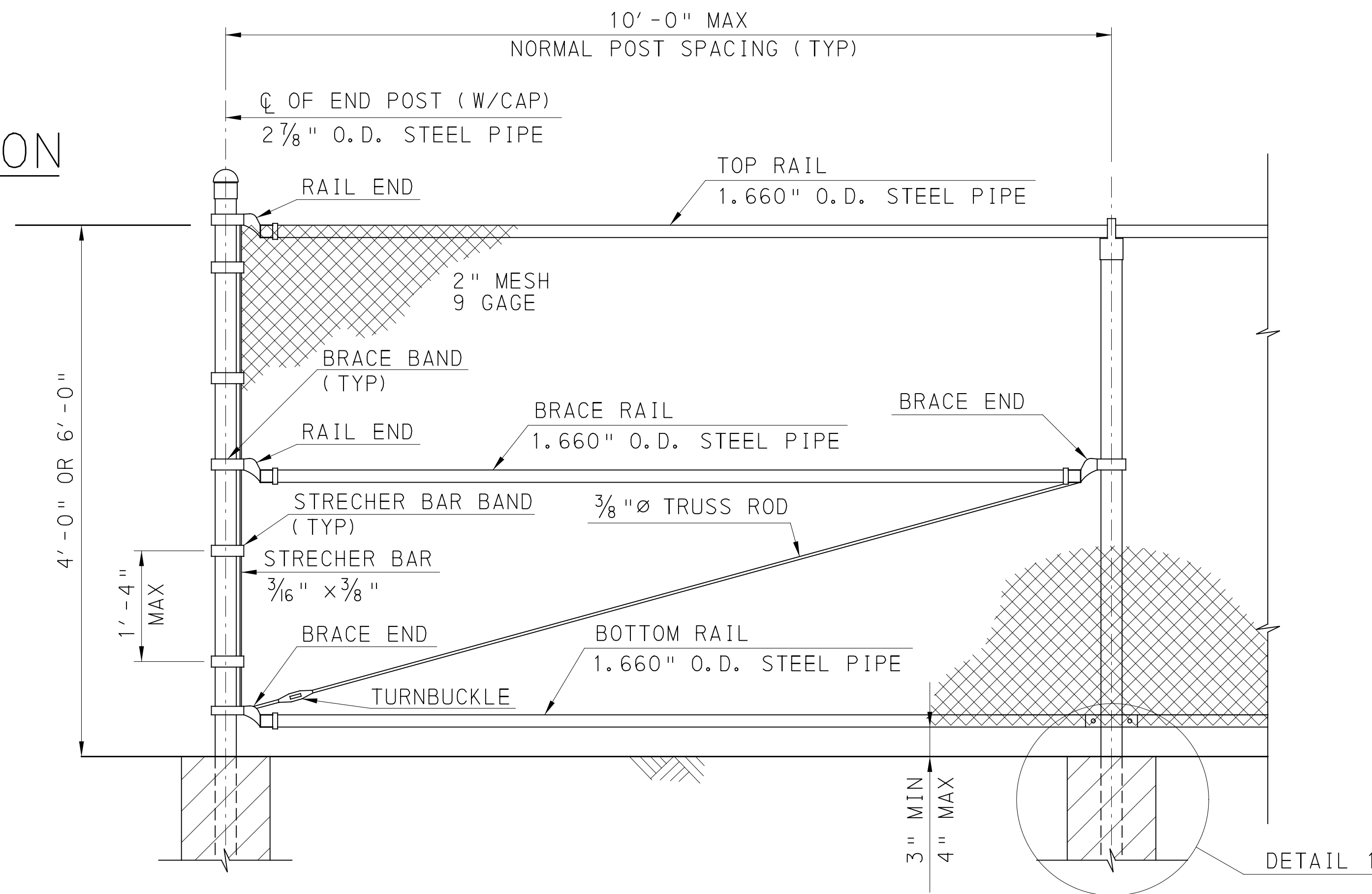
SIDEWALK GRADING INFORMATION

SIDEWALK EDGE AT FACE OF WALL			
STATION	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:

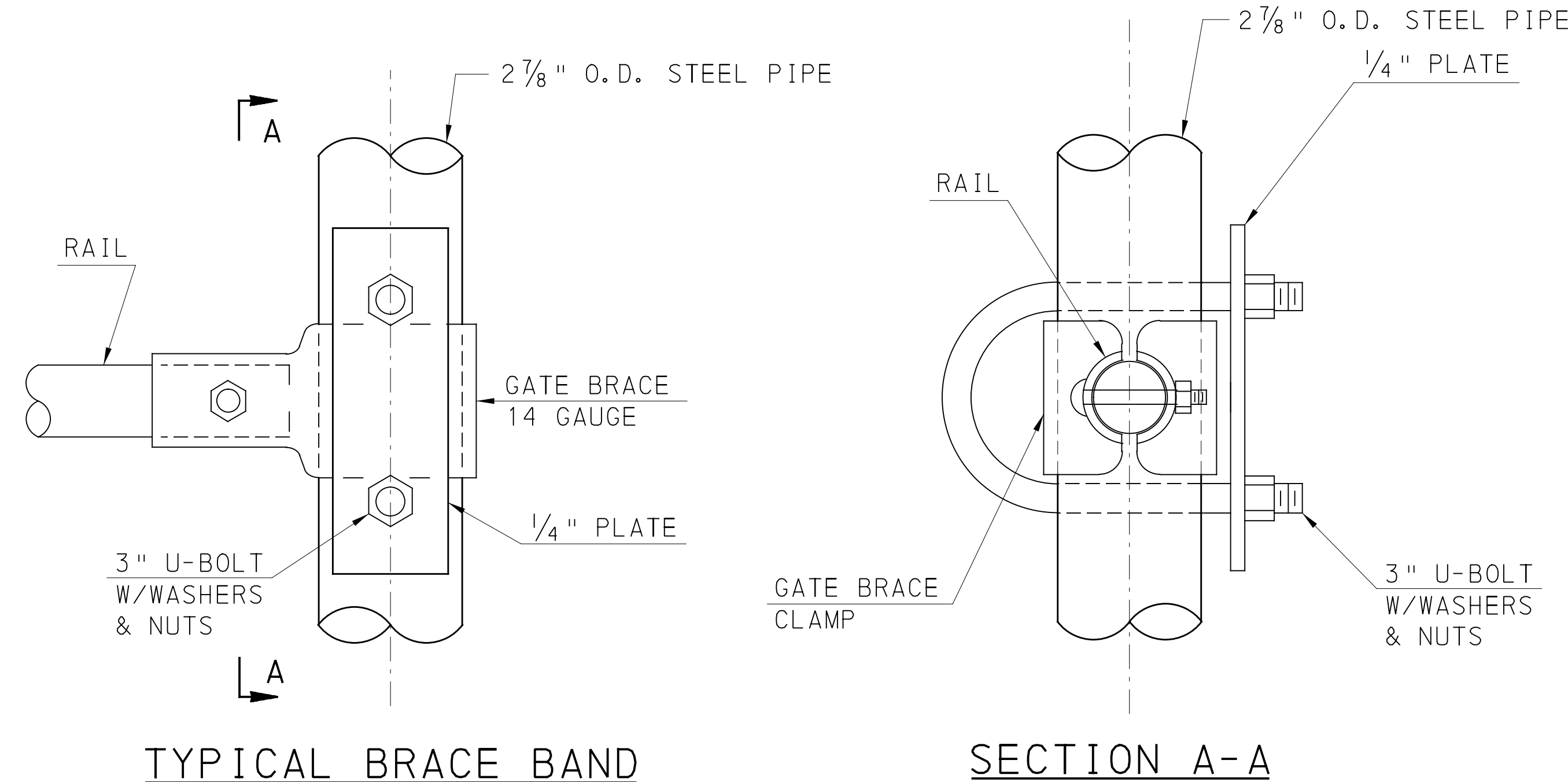
ALL MEASUREMENTS ARE IN FEET.
 POSITIVE VALUES REPRESENT DISTANCES TO THE RIGHT (NORTH) OF THE BASELINE
 STATIONS WITH TWO ELEVATIONS AT THE SAME OFFSET REPRESENT A VERTICAL DROP IN ELEVATION.
 MATCH EXISTING ELEVATIONS AT SIDEWALK SAWCUT LINES.



DETAIL 1-GROUND MOUNTED POSTS

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.



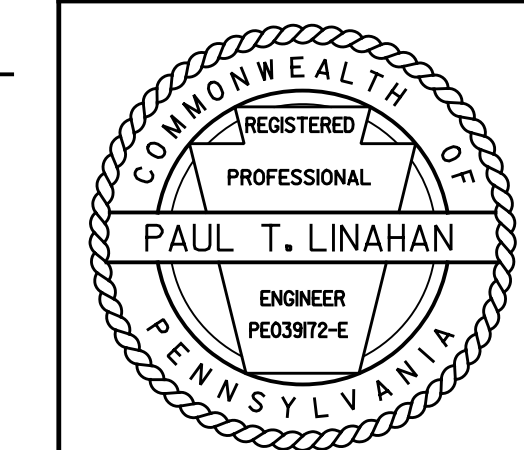
TYPICAL BRACE BAND

SECTION A-A

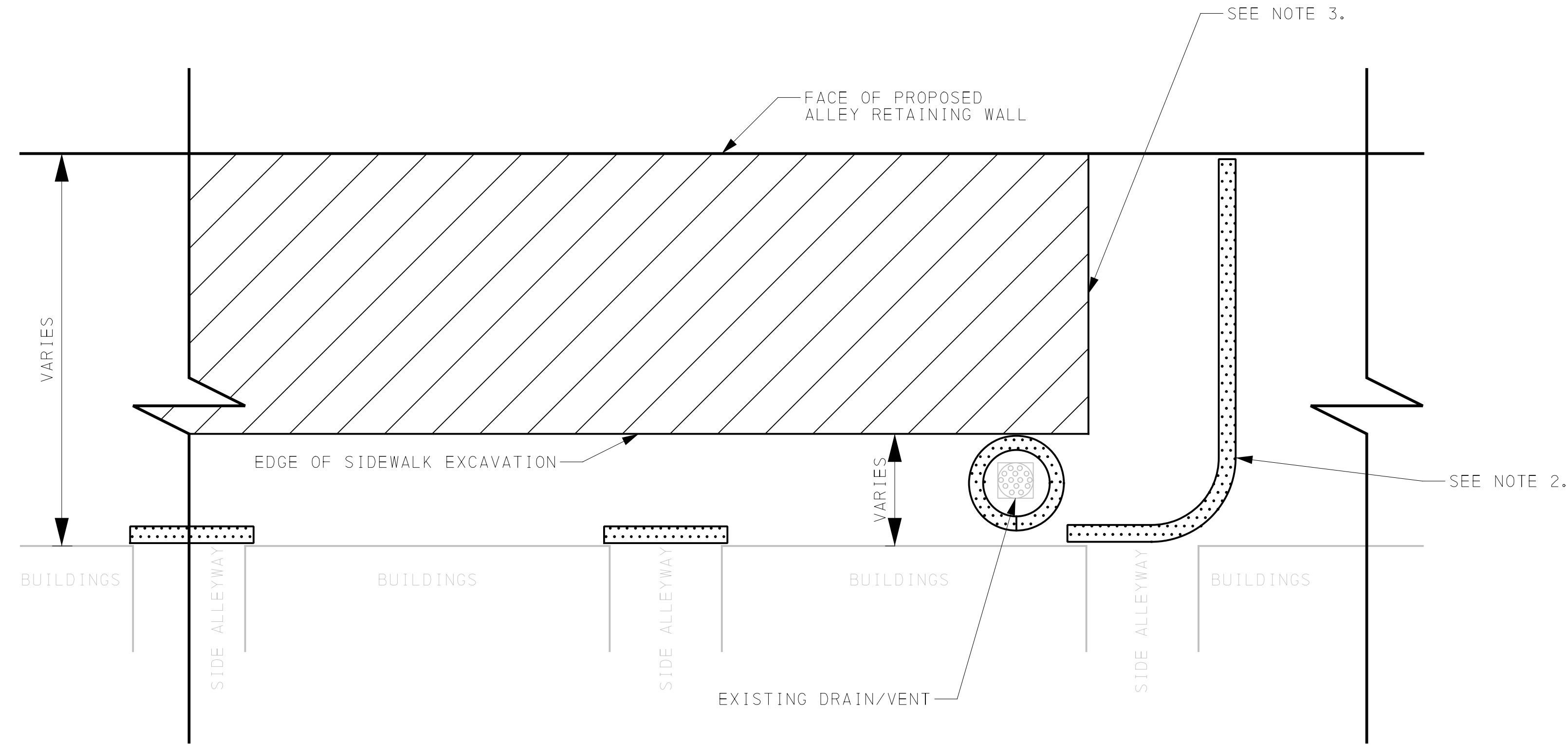
9000-0009 CHAIN LINK FENCE, 4 FEET HIGH
 9000-0010 CHAIN LINK FENCE, 6 FEET HIGH

NOT TO SCALE

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS		
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.

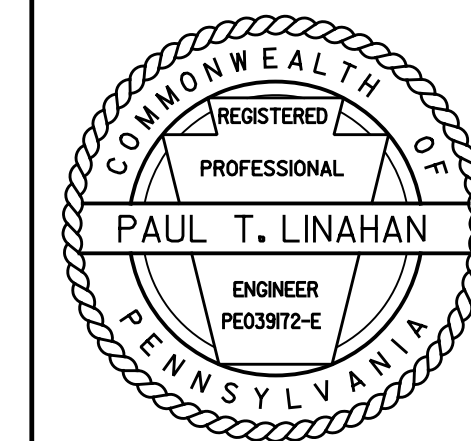
EROSION AND SEDIMENT CONTROL MEASURES TYPICAL LAYOUT

NOT TO SCALE

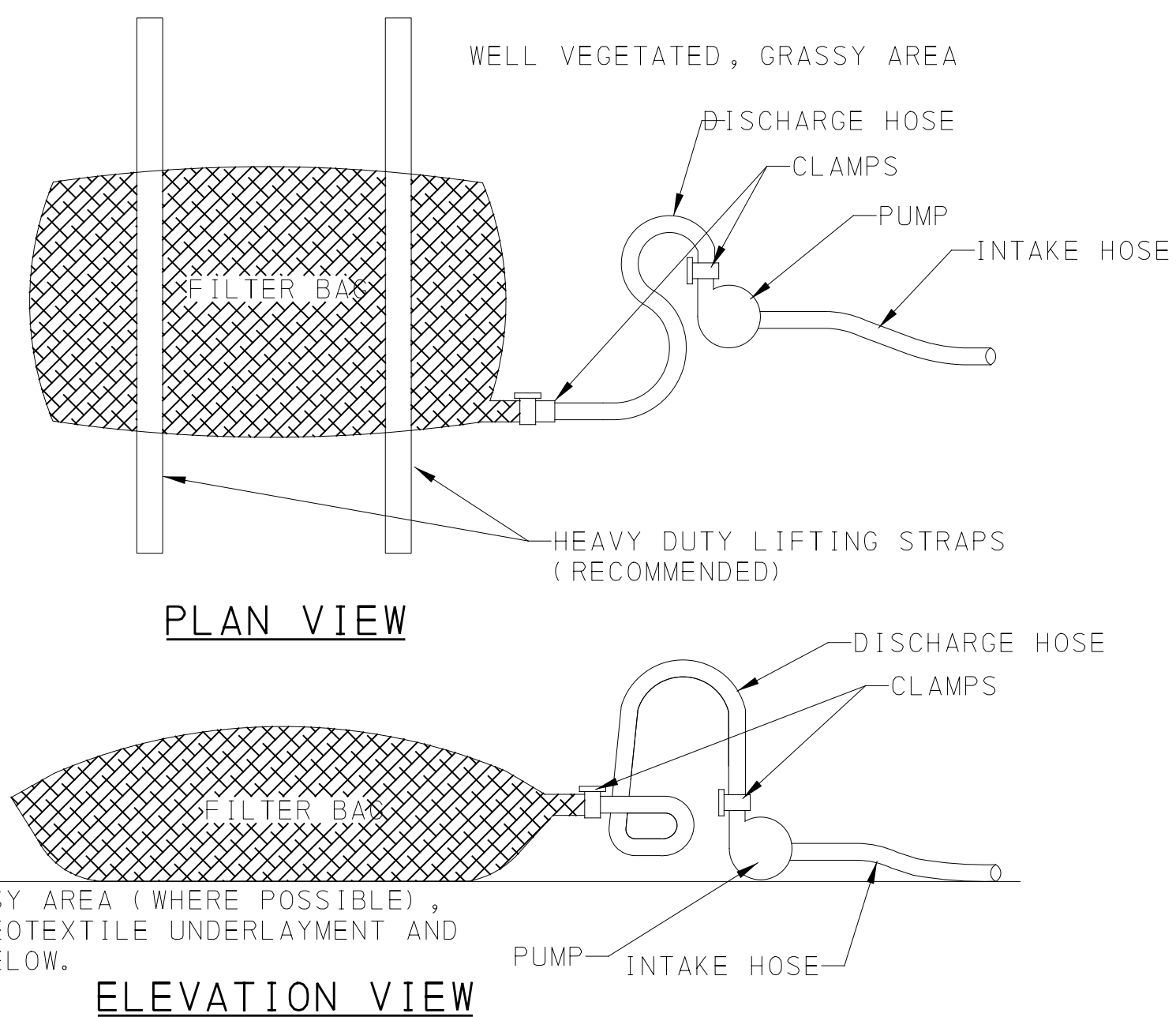
LEGEND

- 20" WEIGHTED SEDIMENT FILTER TUBE
- WORK AREA

100% SUBMISSION: 10/24



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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.

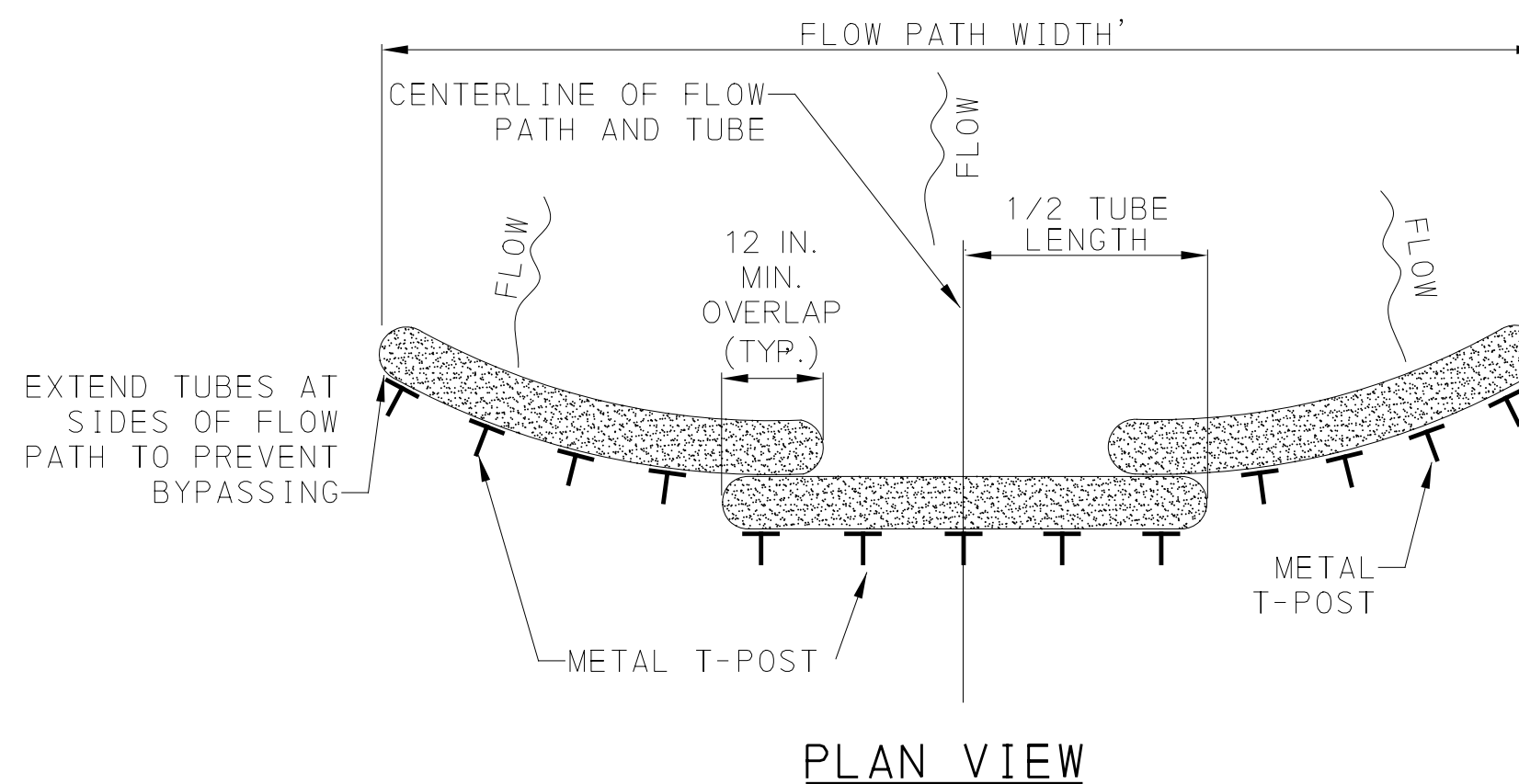
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

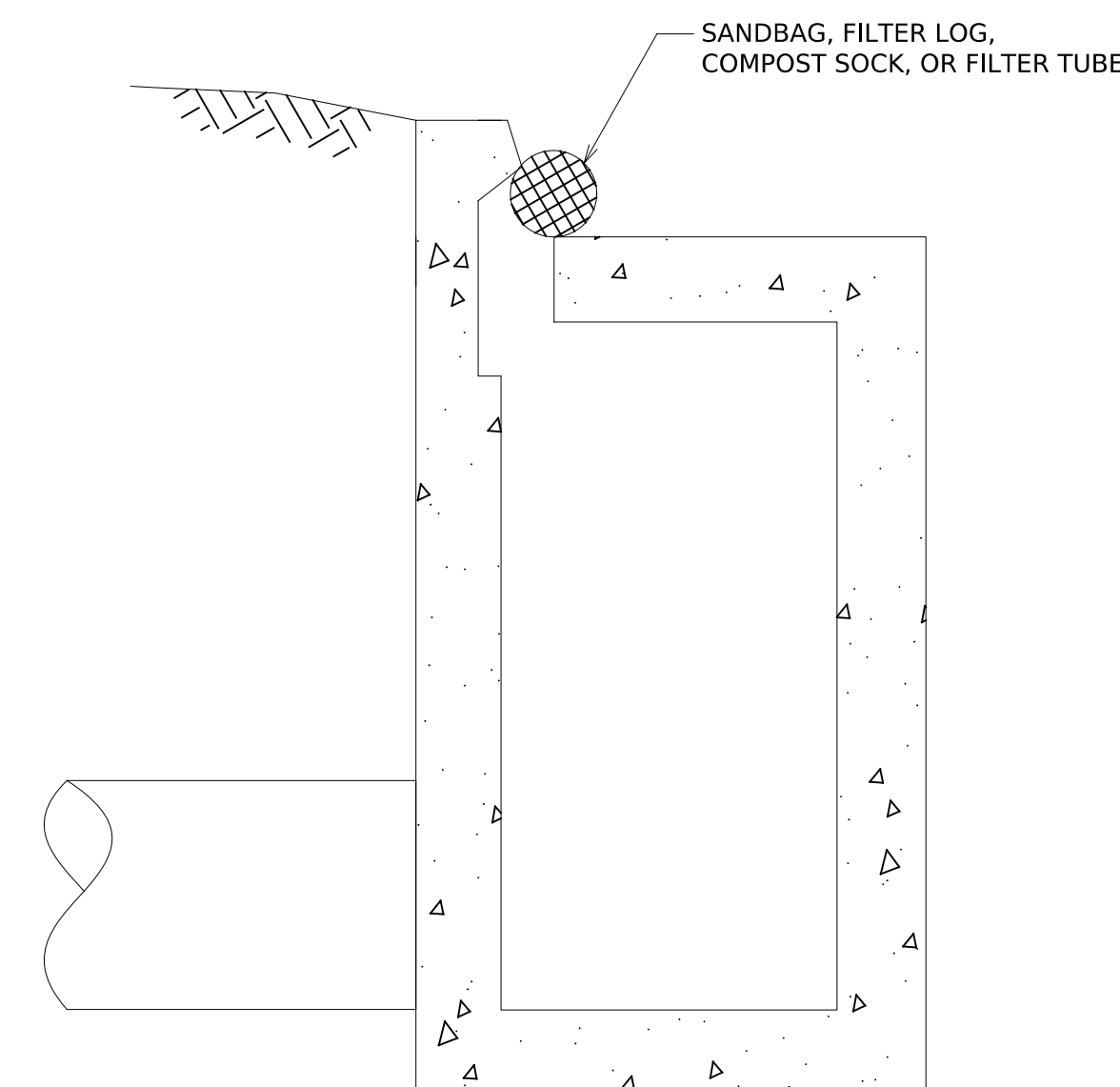
SEDIMENT TUBES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.

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

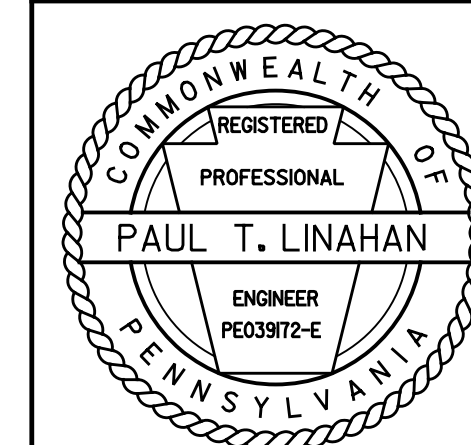


**COMPOST SOCK INLET PROTECTION
FOR PWD OPEN MOUTH INLET**

(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

100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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

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

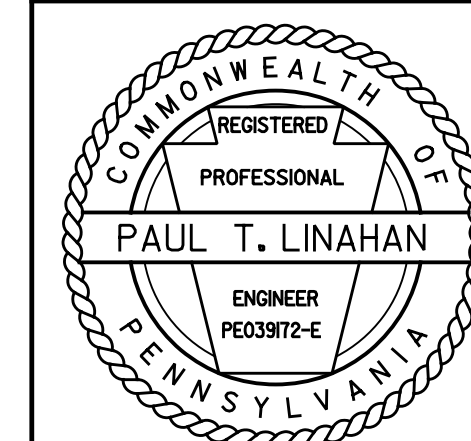
1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES, AS SHOWN ON THE PLANS AND ON THE E&S TYPICAL SECTION DRAWING.
2. CLEAR AND GRUB WITHIN LIMIT OF DISTURBANCE AREA.
3. DEMOLISH EXISTING DECKS AND STAIRCASES, GARAGES AND REMOVE ALL FENCING, AS INDICATED ON THE PLANS.
4. BEGIN EXCAVATION OF THE EXISTING 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



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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.

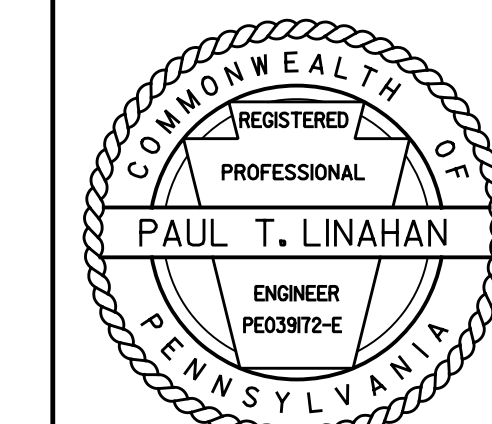
3. SLOW-RELEASE NITROGEN FERTILIZER.

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

100% SUBMISSION: 10/24

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS		
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



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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:

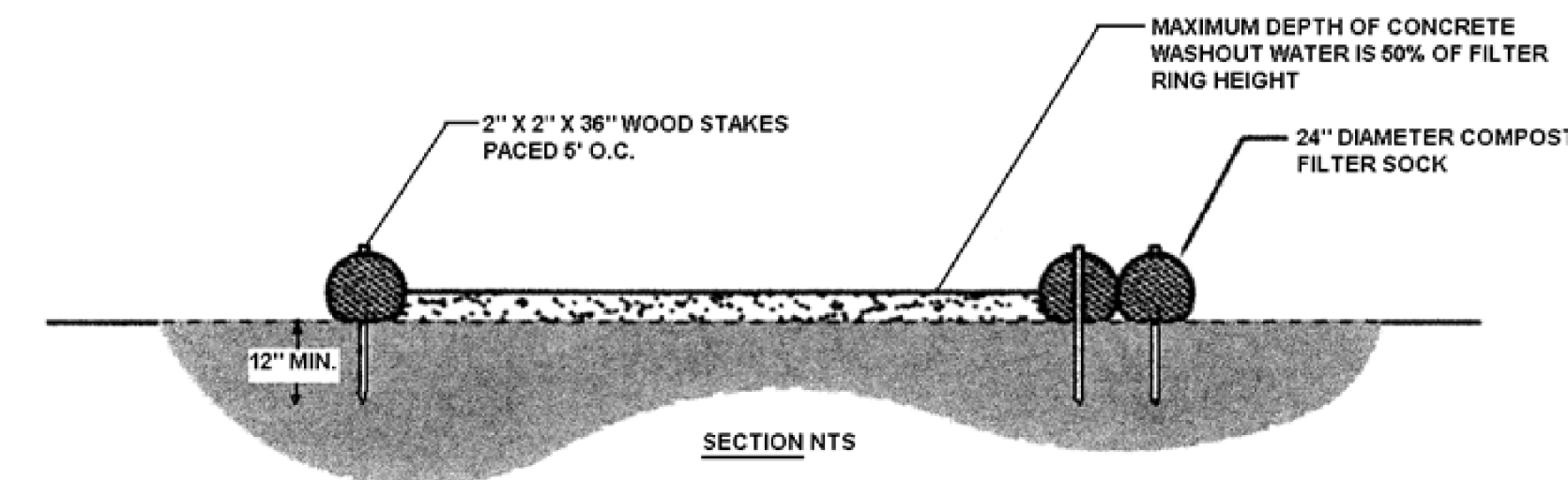
- WEIGHT ——— 0.23 OUNCE PER SQUARE YARD, MINIMUM
- MESH OPENING ——— NOMINAL 1 3/4-INCH X 3/4-INCH

2. COCONUT COIR.

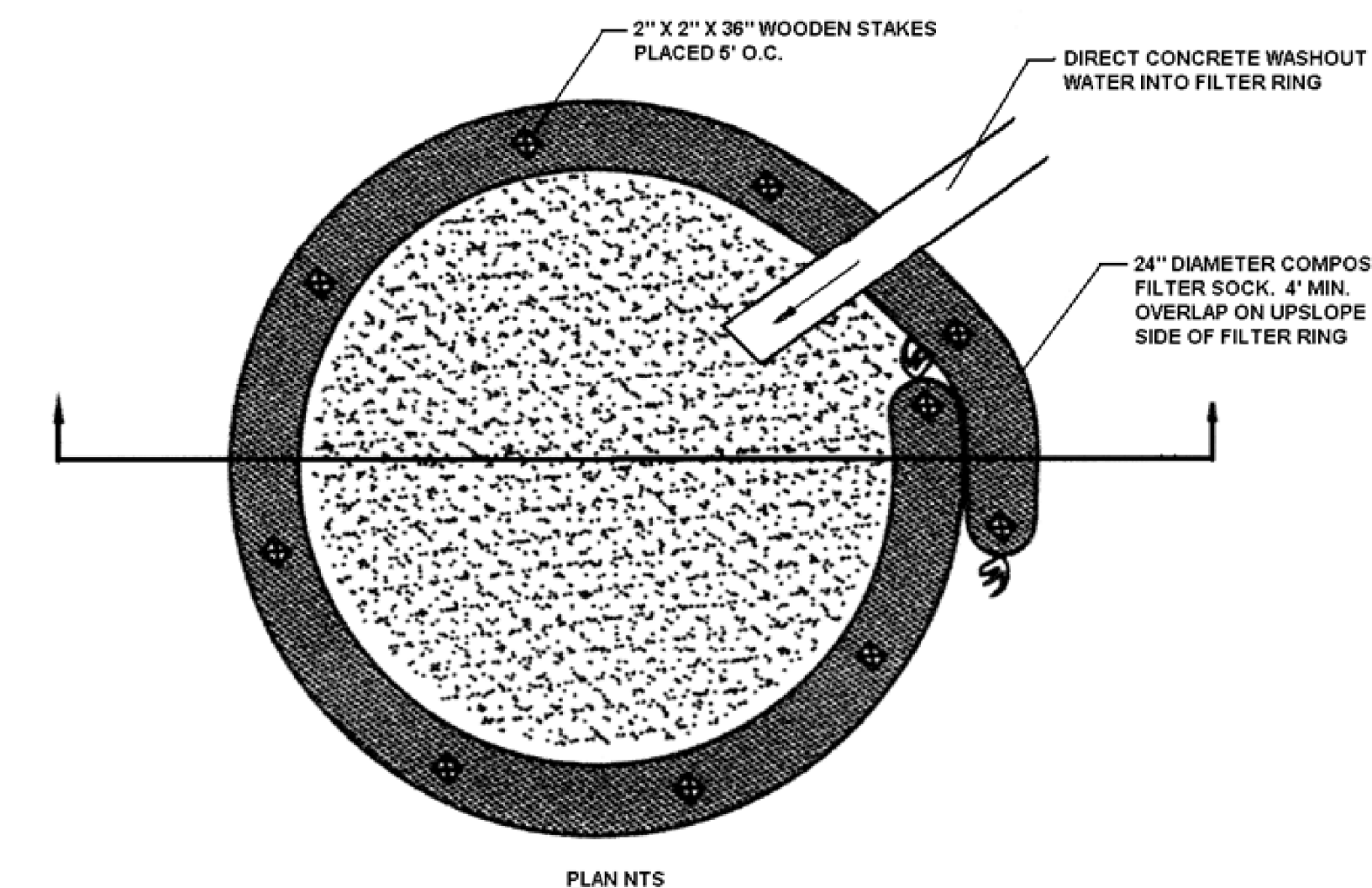
UNDYED, BIODEGRADABLE COCONUT COIR YARN WOVEN INTO A MESH CONFORMING TO THE FOLLOWING REQUIREMENTS:

- 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.



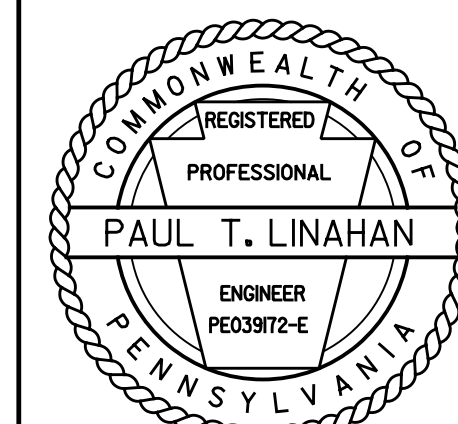
COMPOST SOCK WASHOUT INSTALLATION (EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL TECHNICAL GUIDANCE NUMBER 363-2134-008)

NOTES:

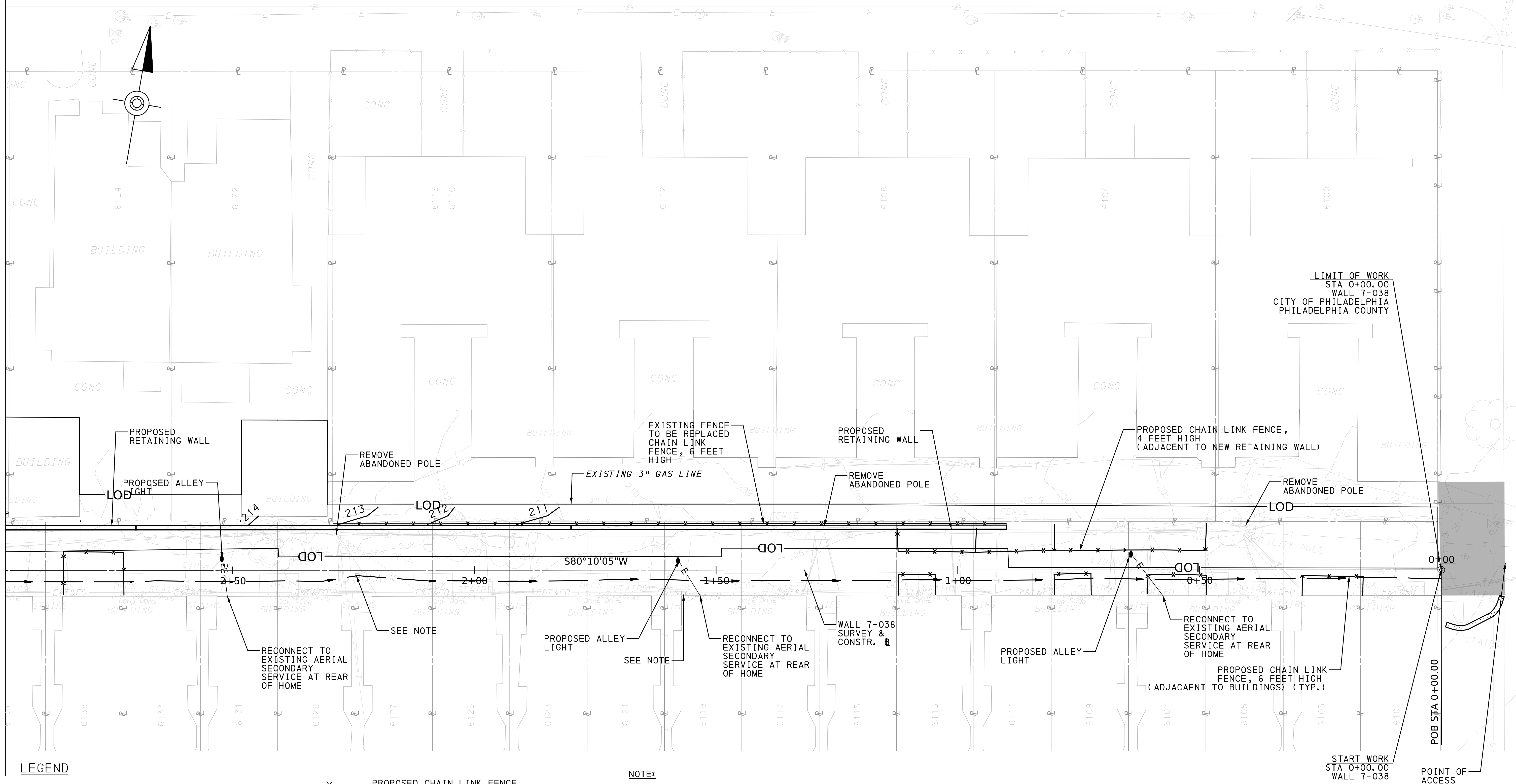
1. PROVIDE PREFABRICATED CONCRETE WASHOUT AREA APPROVED BY ENGINEER OR INSTALL ABOVE DETAILED COMPOST SOCK WASHOUT USING AN IMPERVIOUS GEOMEMBRANE PLACED AT THE LOCATION OF THE WASHOUT.
 2. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. 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
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CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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



NASSAU ROAD

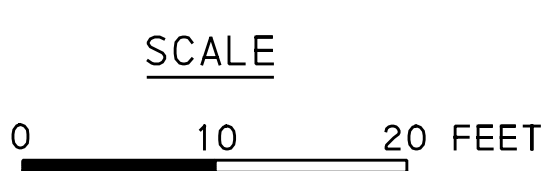


LEGEND

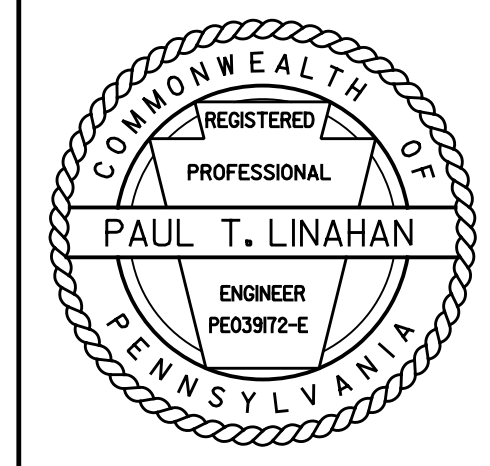
- 200 — EXISTING CONTOUR
- 200 — PROPOSED CONTOUR
- LOD — LIMIT OF DISTURBANCE
- EXISTING SWALE FLOW PATH
- E — EXISTING ELECTRICAL WIRE (AERIAL)
- E — PROPOSED ELECTRICAL WIRE (AERIAL)
- X — PROPOSED CHAIN LINK FENCE
4 FEET HIGH (ADJACENT TO RETAINING WALL)
6 FEET HIGH (ADJACENT TO BUILDINGS)
- PROPOSED 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.

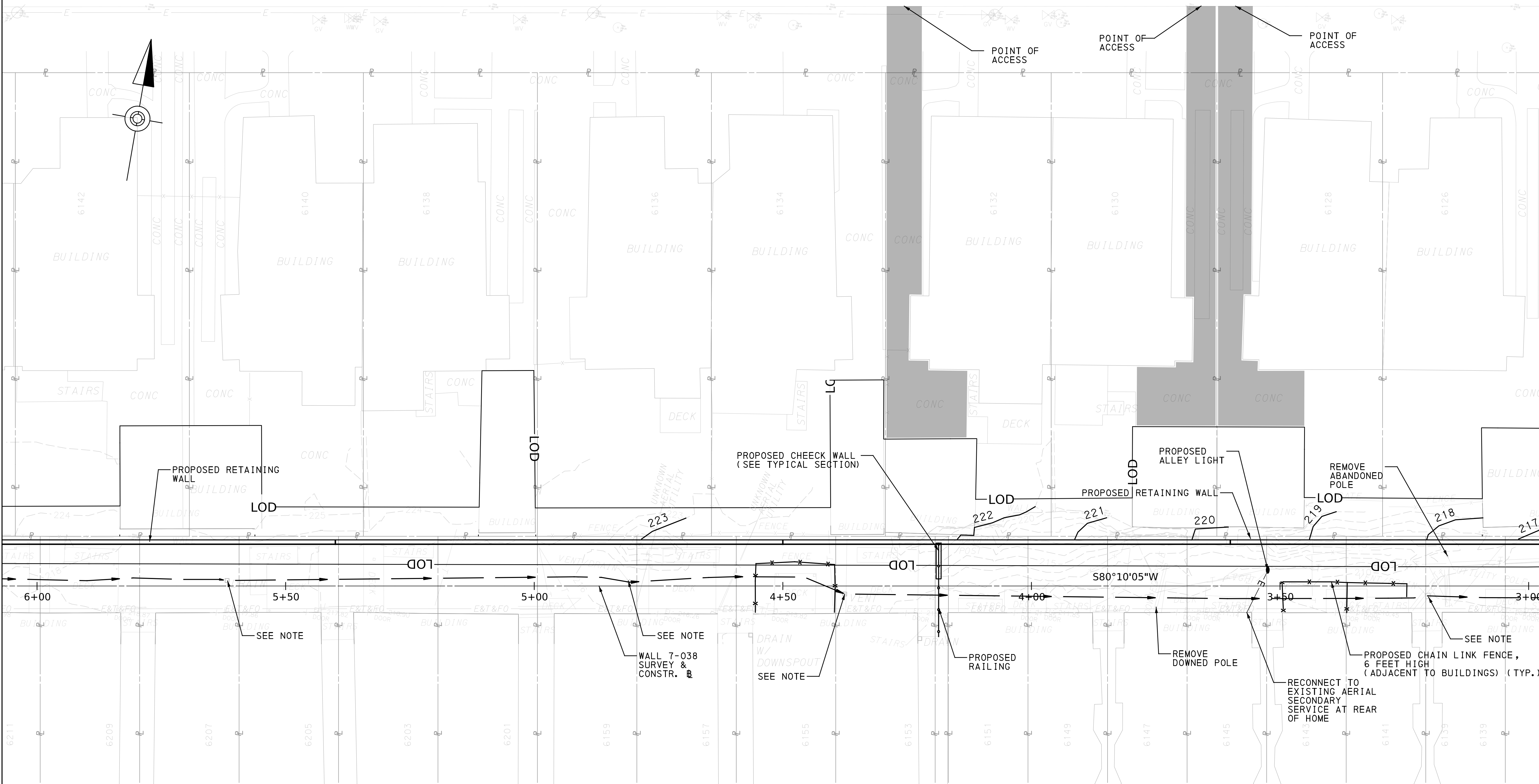


100% SUBMISSION: 10/24



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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

NASSAU ROAD



SHEET 15

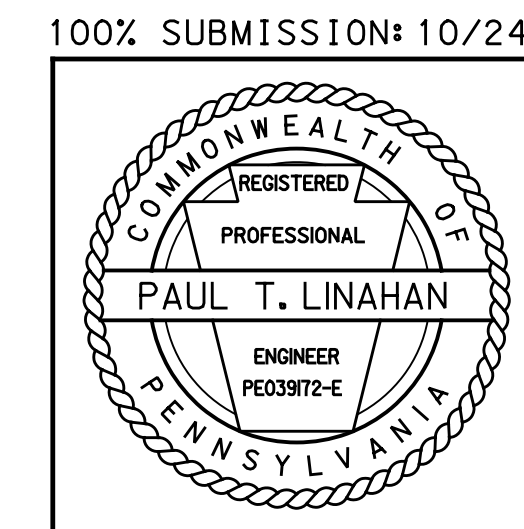
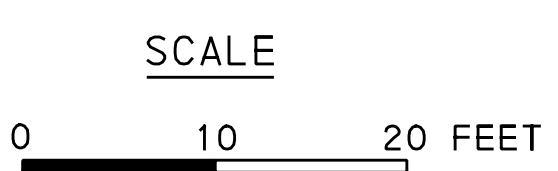
SHEET 13

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.

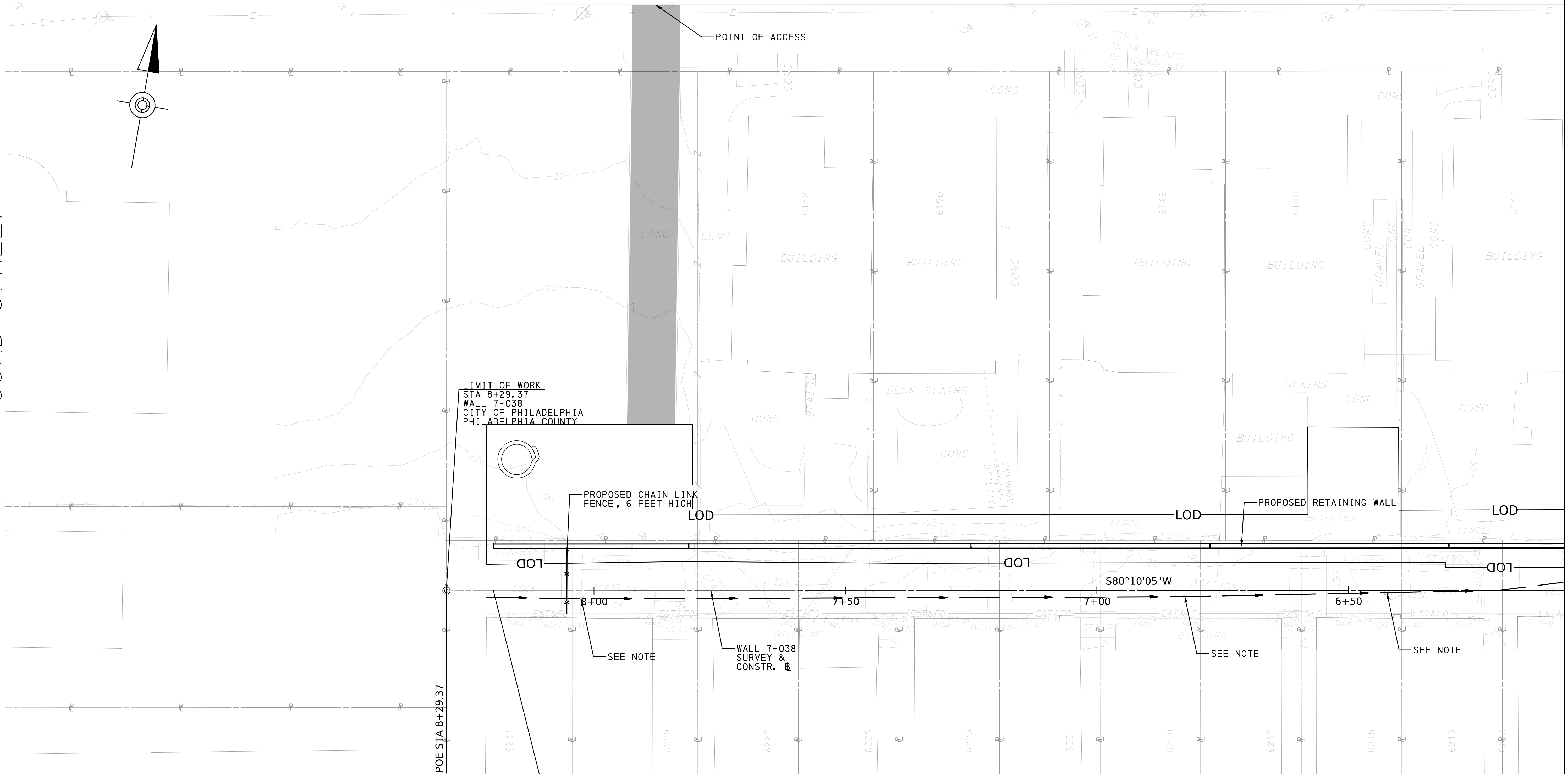


REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS EROSION & SEDIMENT CONTROL PLAN		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
GANNETT FLEMING, INC.		SHEET 14 OF 27

NASSAU ROAD

63RD STREET

SHEET 14



LEGEND

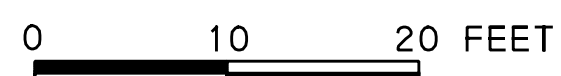
- 200 — EXISTING CONTOUR
- 200 — PROPOSED CONTOUR
- LOD — LIMIT OF DISTURBANCE
- EXISTING SWALE FLOW PATH
- E — EXISTING ELECTRICAL WIRE (AERIAL)
- E — PROPOSED ELECTRICAL WIRE (AERIAL)

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

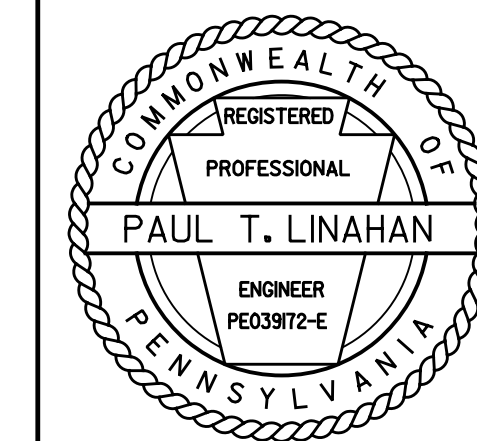
NOTE:

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

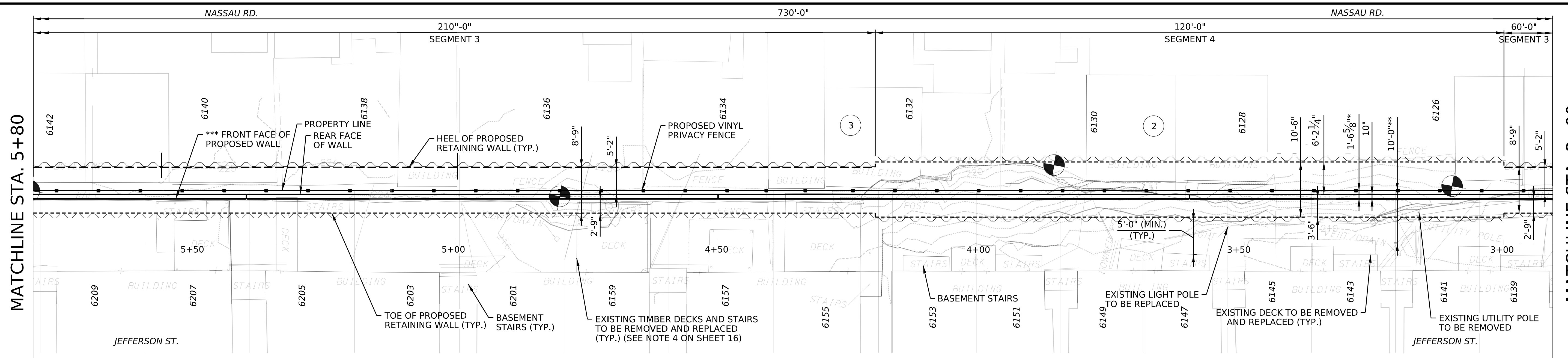


100% SUBMISSION: 10/24



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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

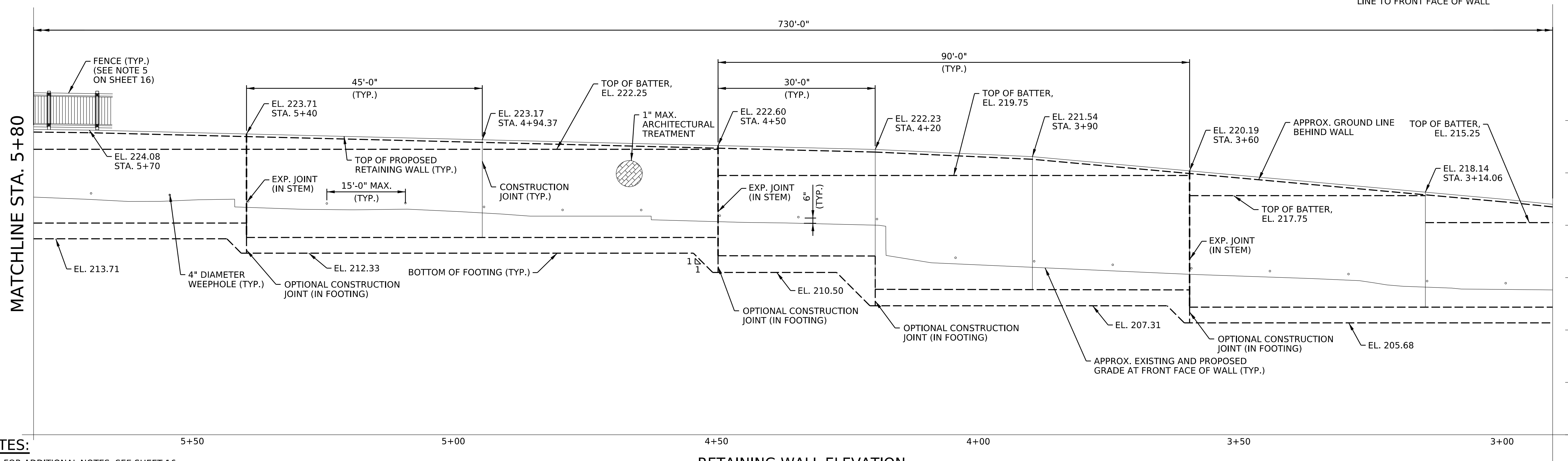
FILE NAME: p:\g\p\p\pw_bentley.com\g\p\p\pw-01\Documents\Projects\RDWY_01\STRC_S\H\W1010_Retaining_wal1_Plan and Elevation-2.dgn
 PLOTTED: sdate\$
 \$time\$



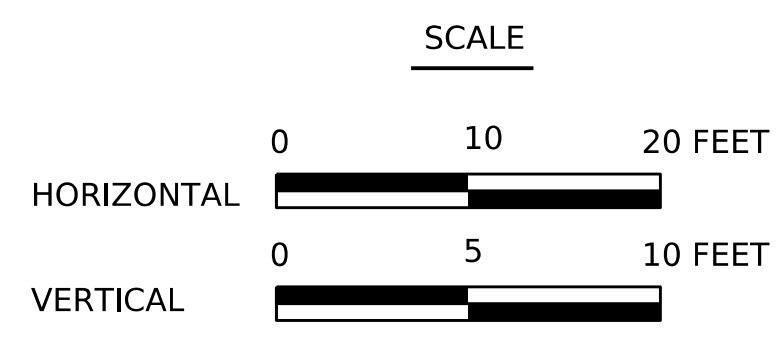
RETAINING WALL PLAN



- *** 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



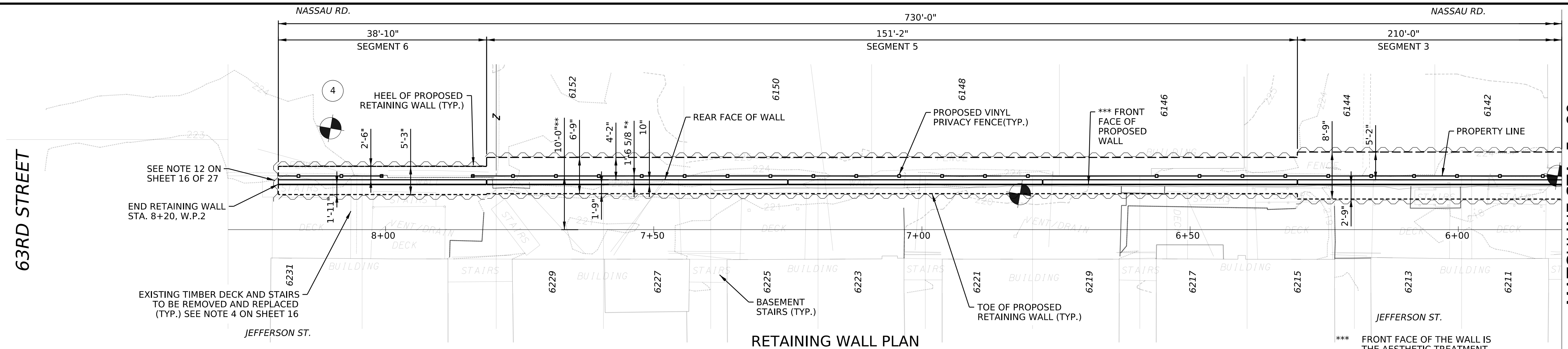
- NOTES:
- FOR ADDITIONAL NOTES, SEE SHEET 16.

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

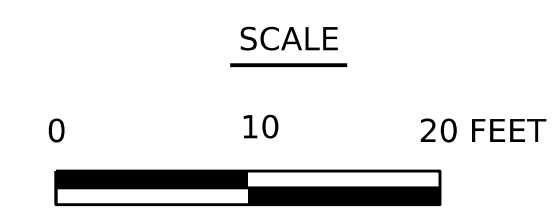
PREPARED BY:
 SJH ENGINEERING, P.C.
 PRINCETON, NJ

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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

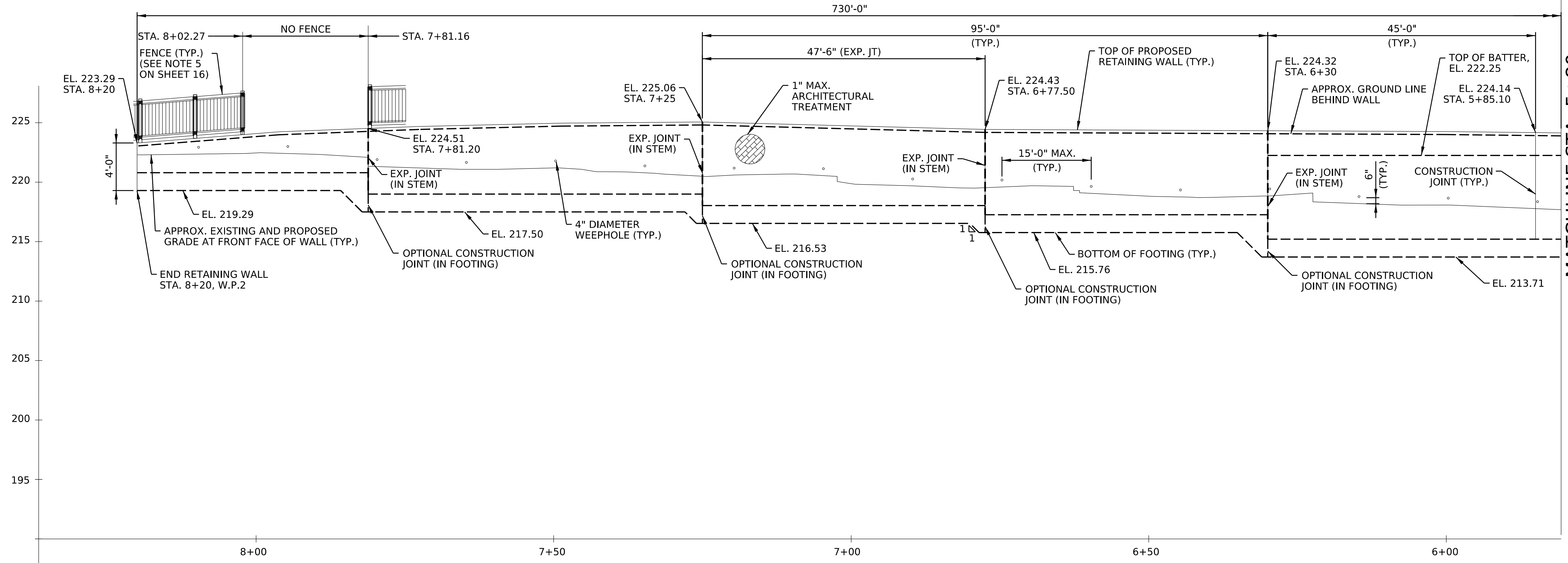
FILE NAME: p:\gfn\pwr\ben\l\ey.com\gfn\pwr\01\Documents\Projects\66357_W010\Drawings\RDWY_01\STRC_S\H\W10_Retaining_wal.Plan and Elevation-3.dgn



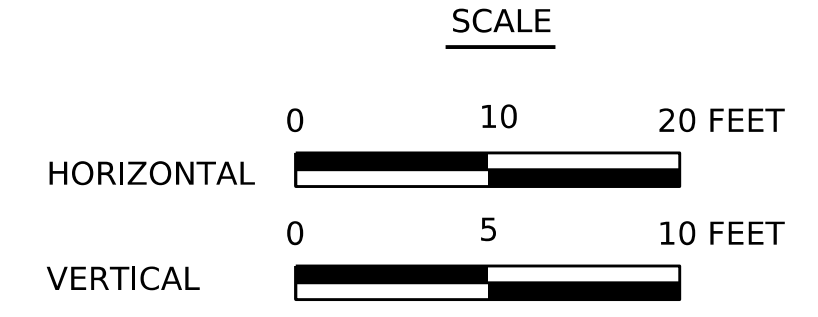
RETAINING WALL PLAN



- *** 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.

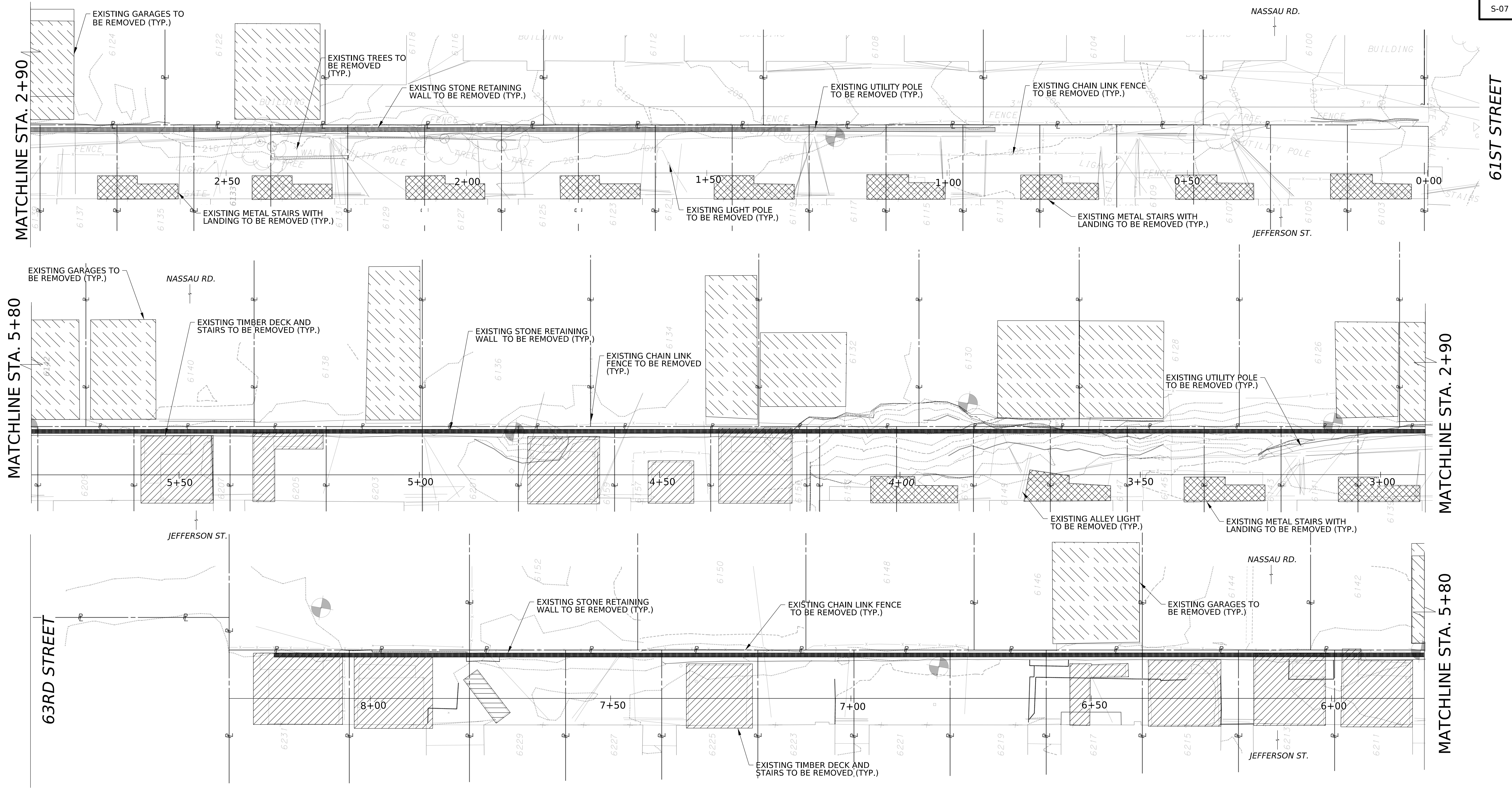
LEGEND

- (X) CONTRACTOR'S ACCESS POINTS
- XXX--- CONTOUR LINE
- (Compass Symbol) BORING LOCATION
- (Wavy Line Symbol) TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM (TBD BY CONTRACTOR, SEE SPECIAL PROVISION.)
- (Solid Line Symbol) PROPOSED CONSTRUCTION

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

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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

FILE NAME: pw://gfn1-pw-bentley.com/gfn1-pw-01/Documents/Projects/66357-W010/SHEETS/RDWY_01/STRC_SuH/W010_Retaining_wal1_Demolition_Plan.dgn
 PLOTTED: sdate\$ \$time\$



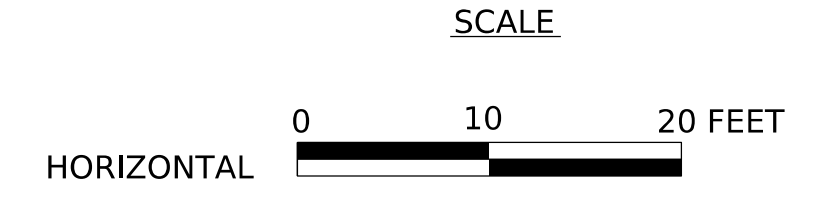
LEGEND

- 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.

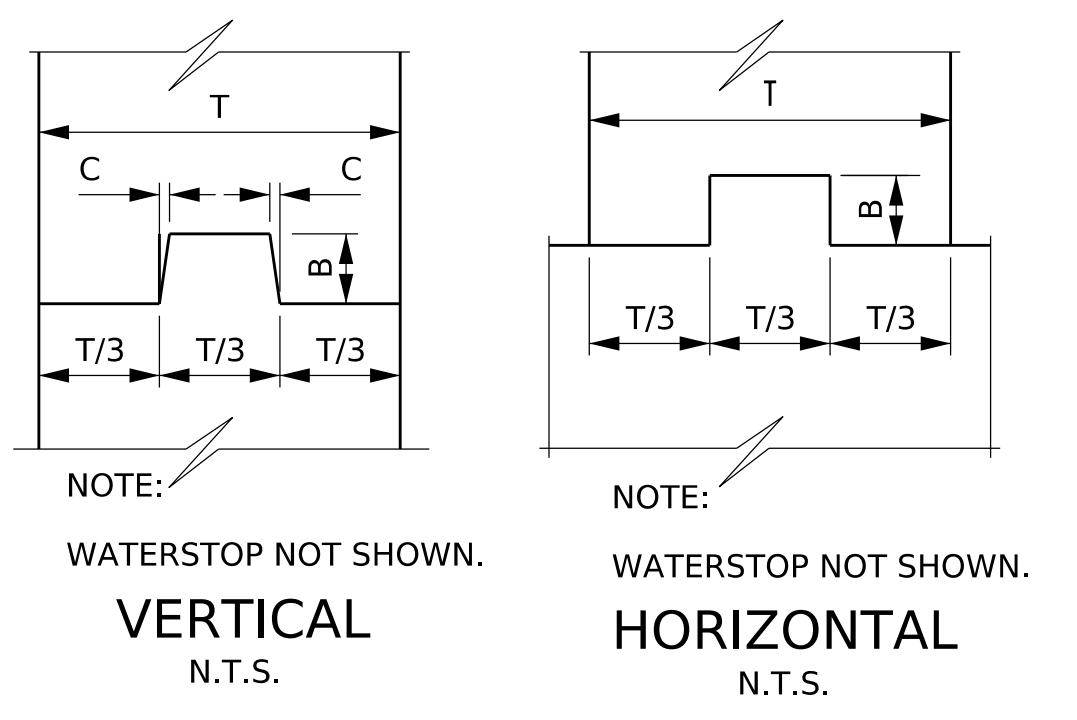
DEMOLITION PLAN



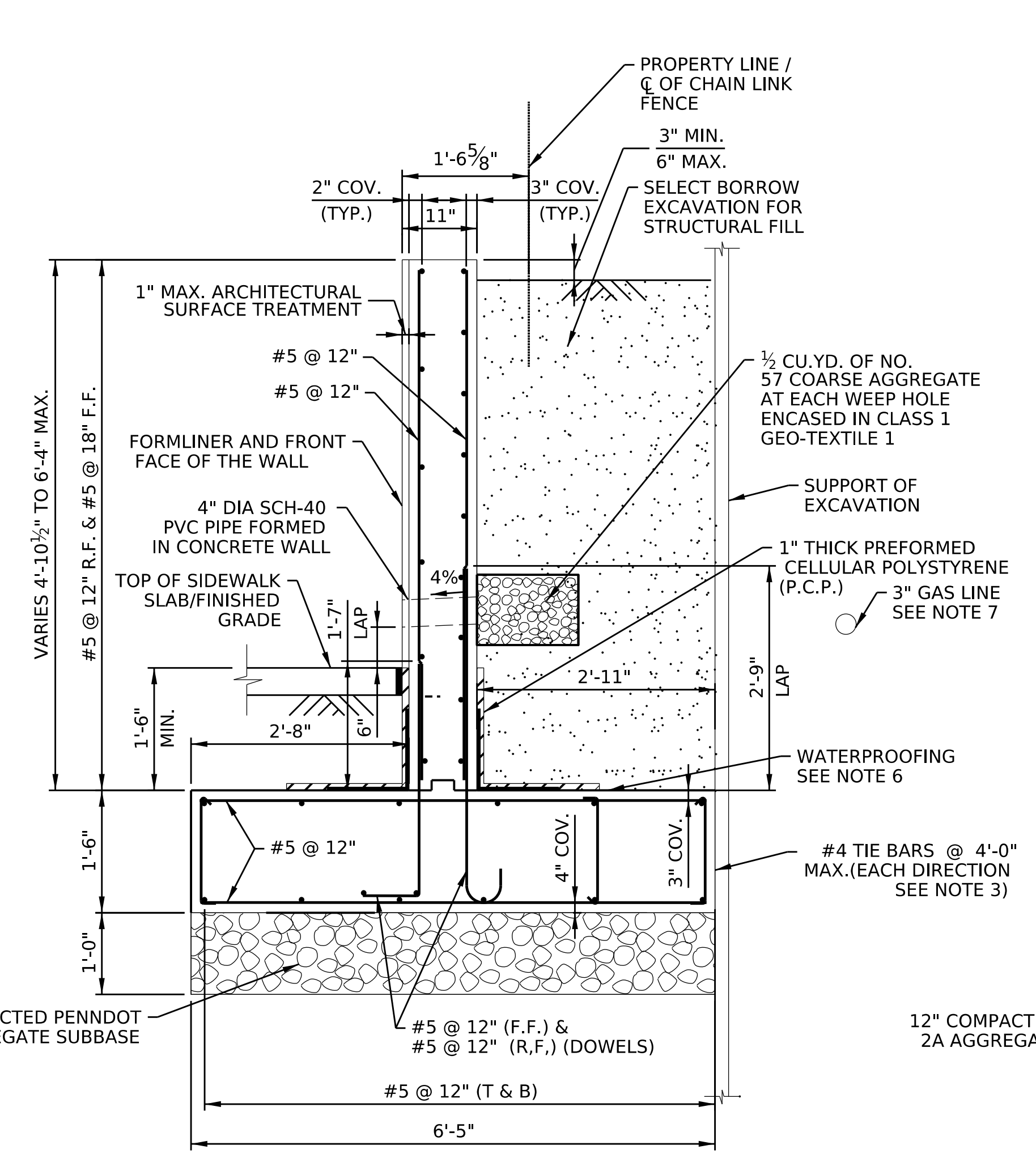
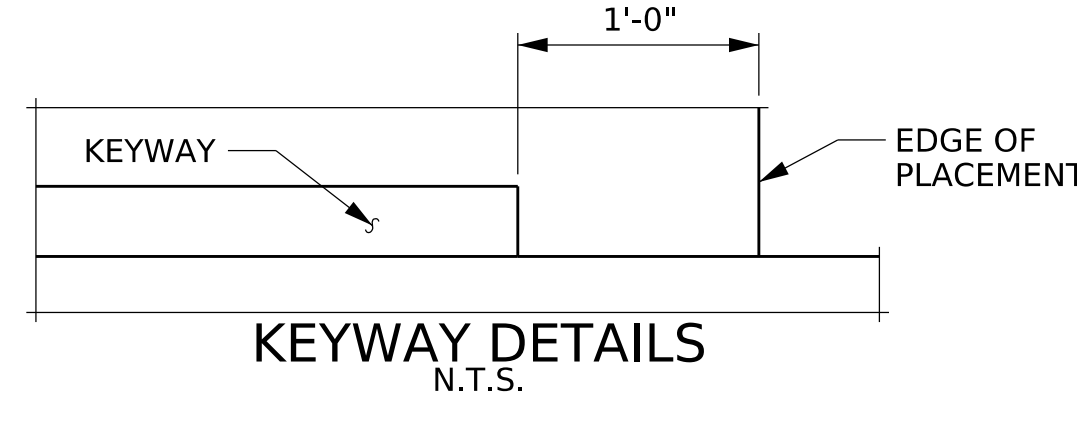
PREPARED BY:
 SJH ENGINEERING, P.C.
 PRINCETON, NJ

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

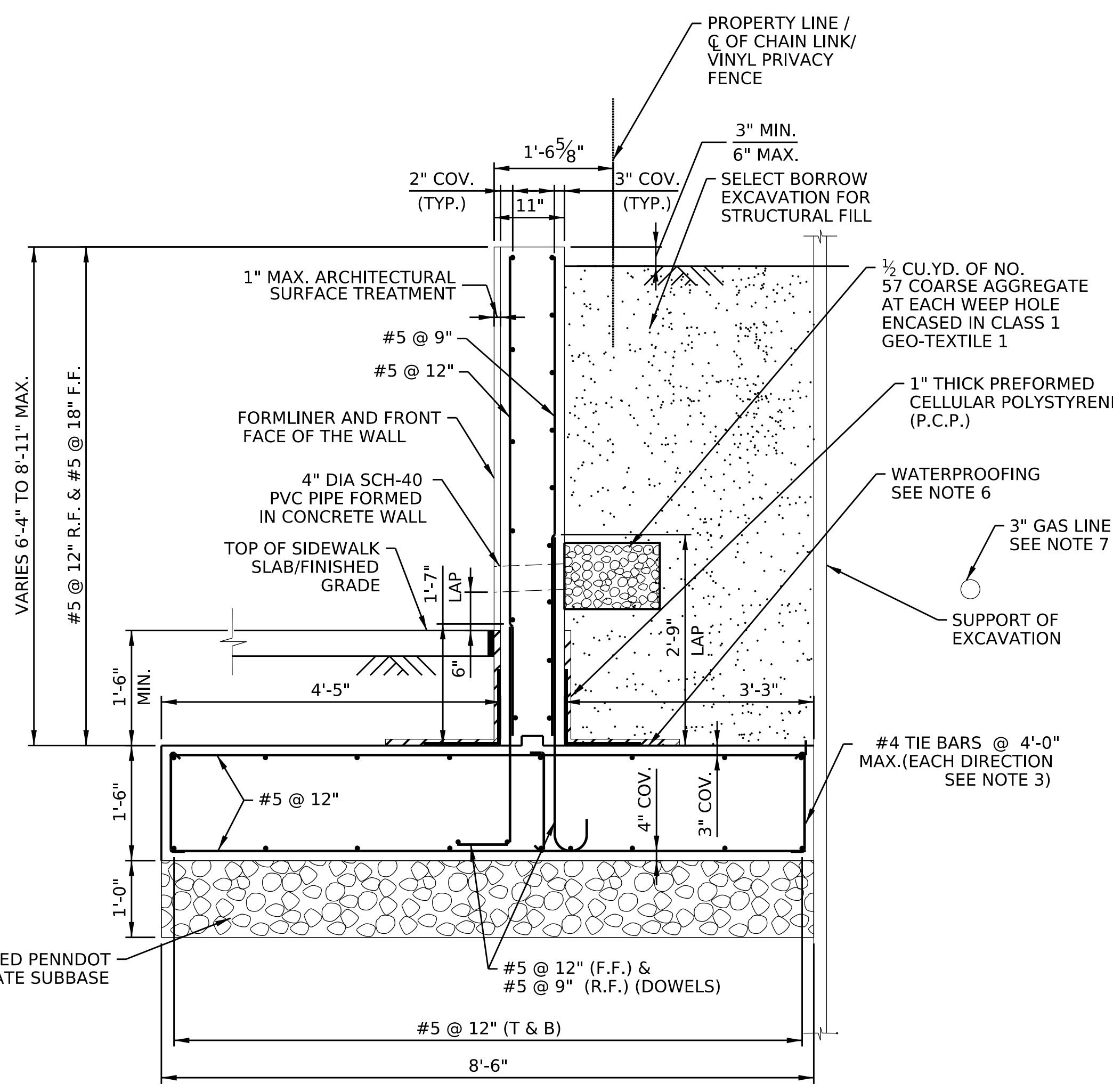
STATION	SEGMENT TYPE	ESTIMATED LENGTH	MAX. STEM HEIGHT (FT)
0+90.00 THRU 1+20.00	1	30'-0"	4'-10½"
1+20.00 THRU 1+50.00	1	30'-0"	6'-4"
1+50.00 THRU 2+10.00	2	60'-0"	7'-9"
2+10.00 THRU 2+40.00	2	30'-0"	8'-11"
2+40.00 THRU 2+70.00	3	30'-0"	10'-5"
2+70.00 THRU 3+00.00	3	30'-0"	9'-10"
3+00.00 THRU 4+20.00	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"



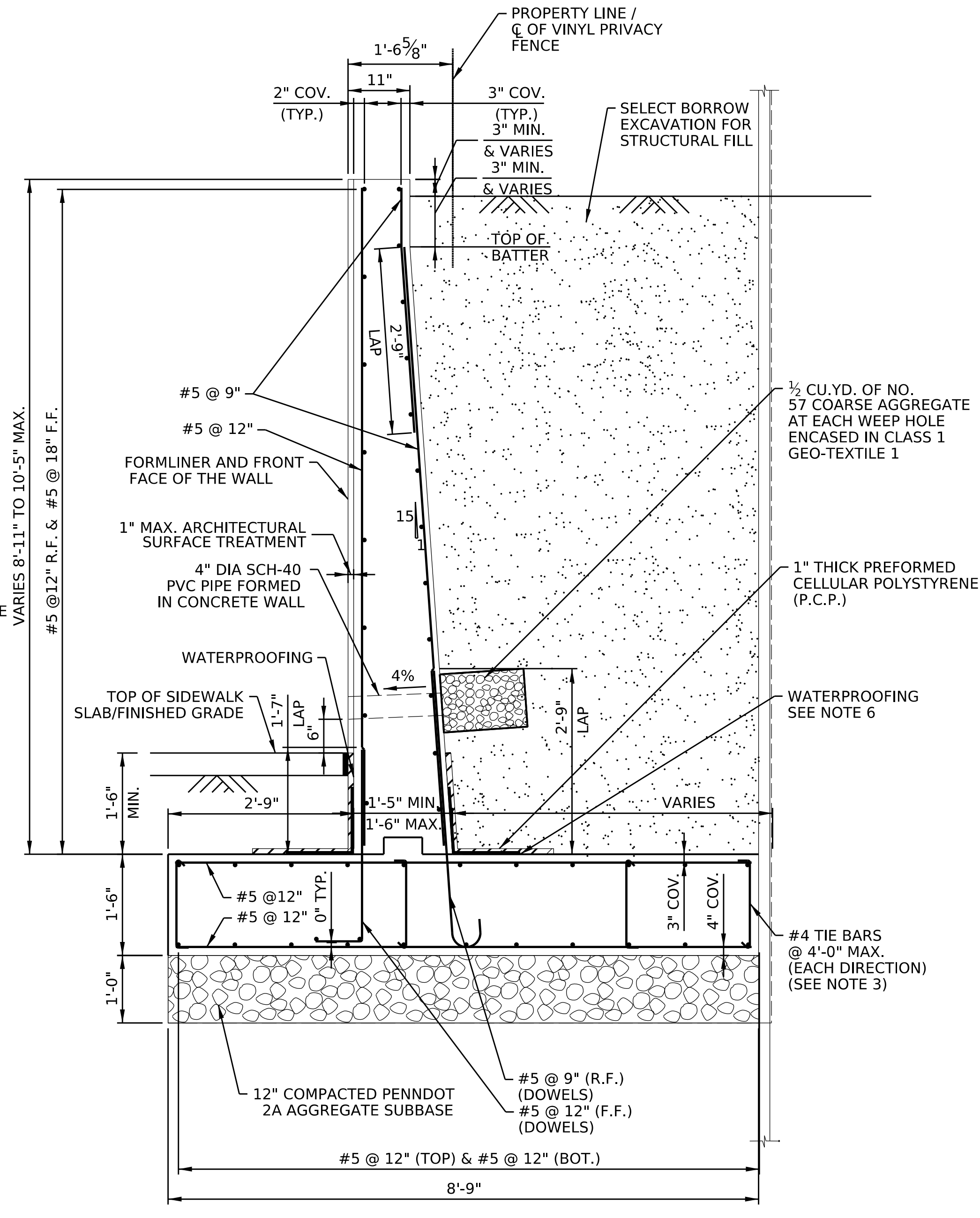
CONSTRUCTION JOINTS		
C	B	T/3
¾"	1½"	0 TO 6"
¾"	3½"	6" TO 10"
¾"	5½"	10" AND OVER



SEGMENT 1



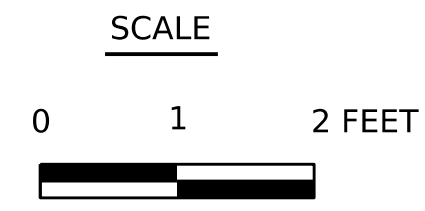
SEGMENT 2



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

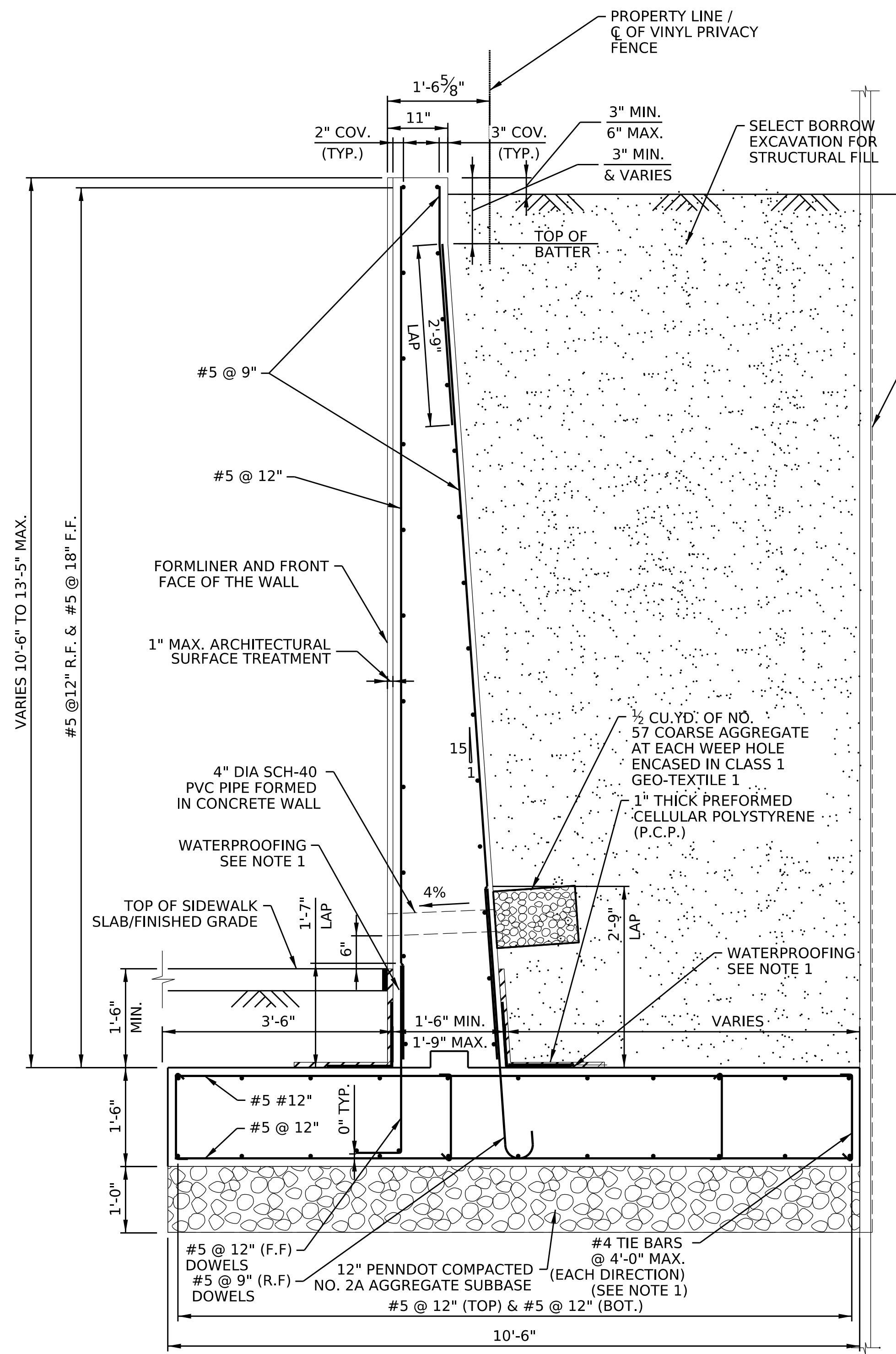


PREPARED BY:
S.J.H. ENGINEERING, P.C.
PRINCETON, NJ

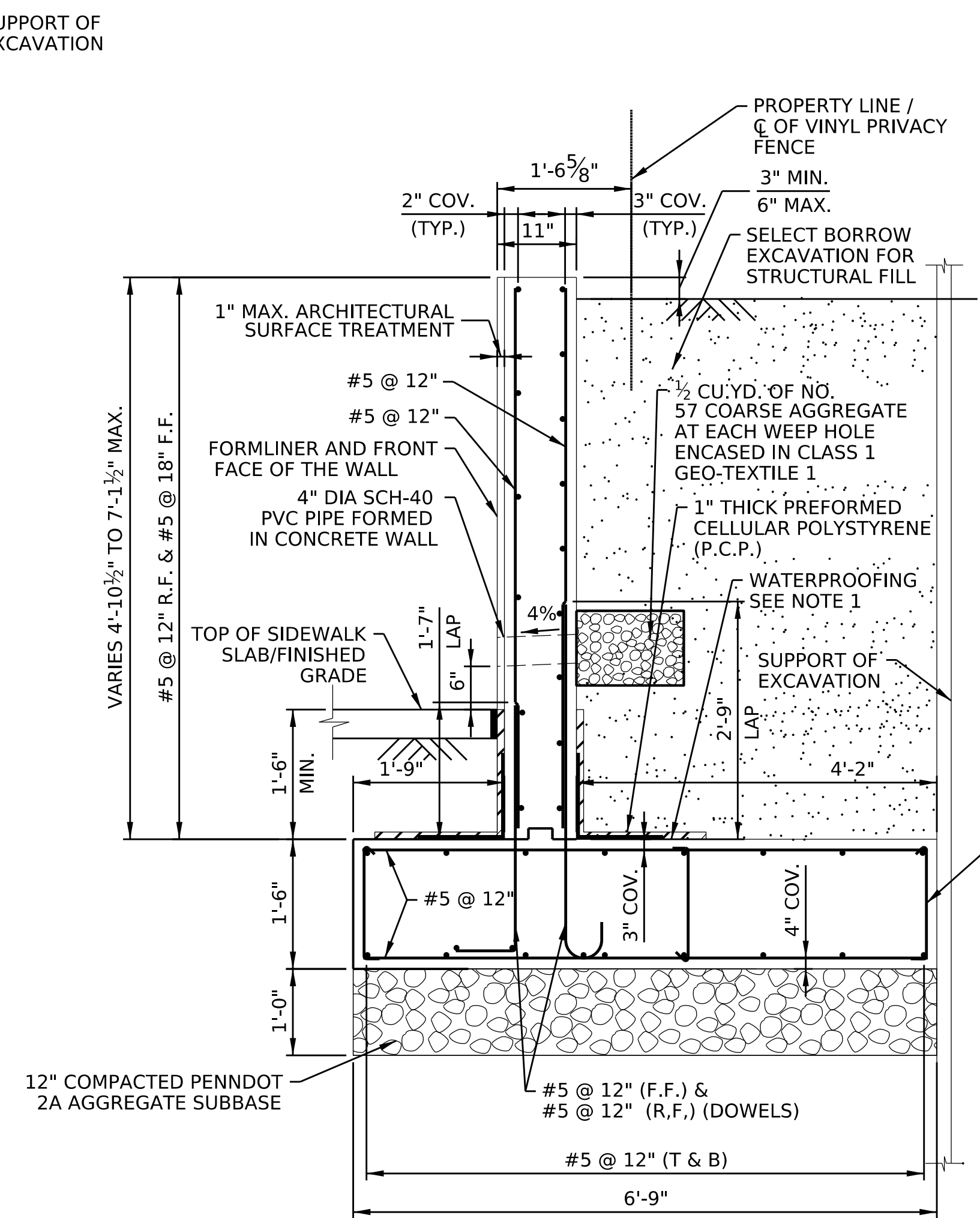
REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS RETAINING WALL SECTION-I		
ALLEY RETAINING WALL 7-038 BETWEEN 61ST STREET & JEFFERSON STREET AND 63RD STREET & NASSAU ROAD		
SJH ENGINEERING, P.C.		SHEET 24 OF 27

FILE NAME: pw://gfn1-pw-bentley.com/gfn1-pw-01/Projects/01/STRTC_SJH/W010/Retaining Wall Sections.dgn
 PLOTTED: sdate\$ \$time\$

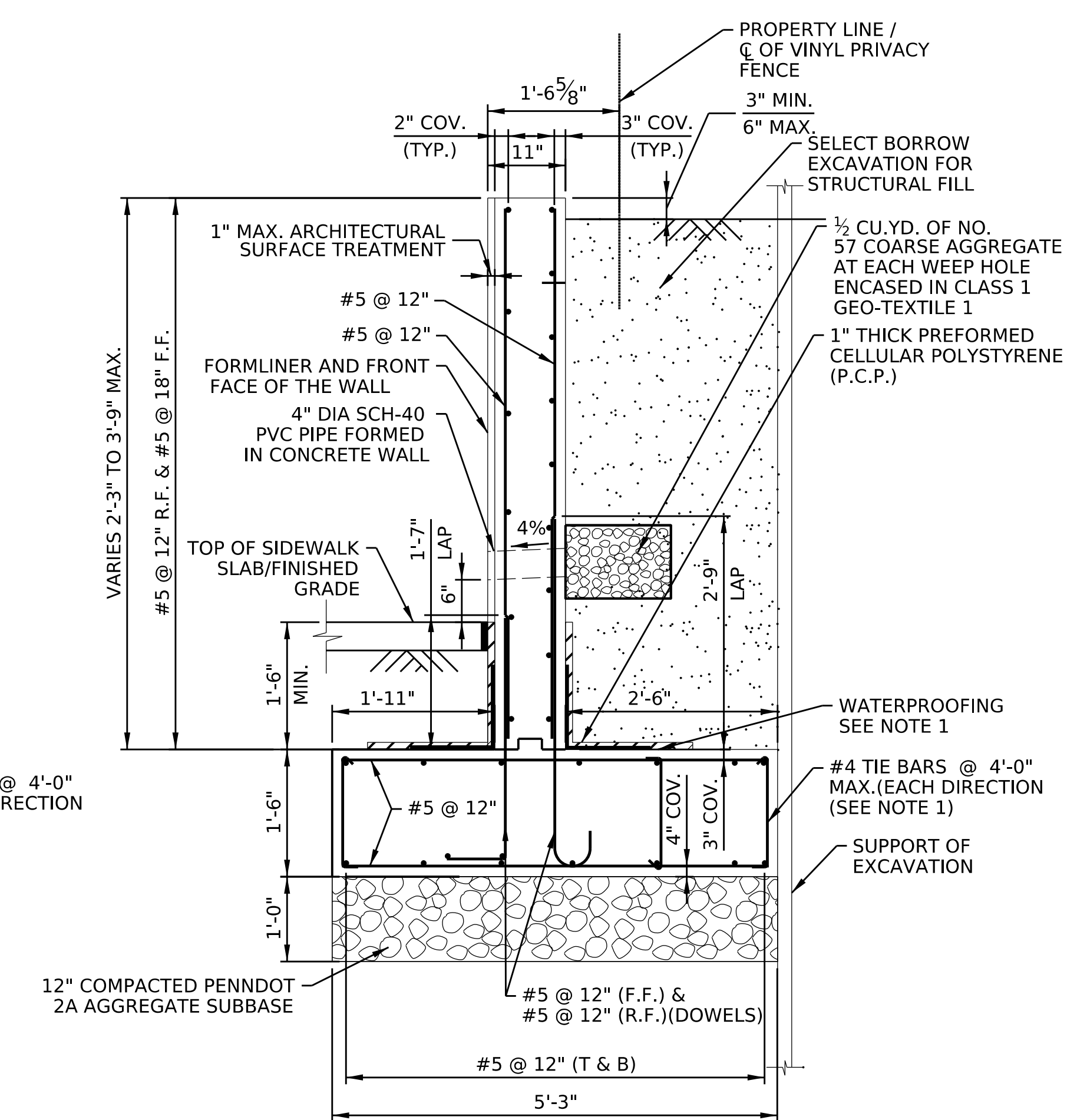
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SEGMENT 4



SEGMENT 5



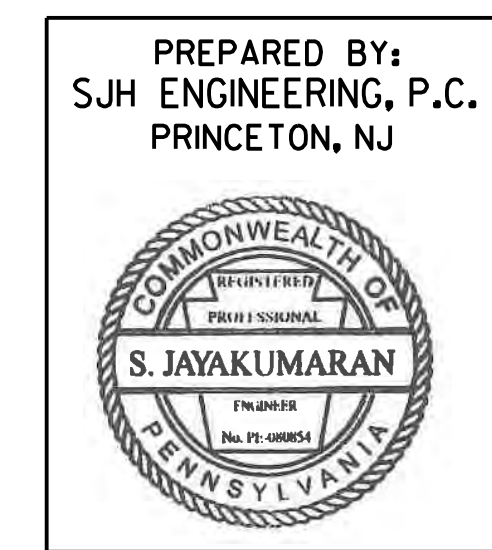
SEGMENT 6

RETAINING WALL SECTIONS



NOTES:

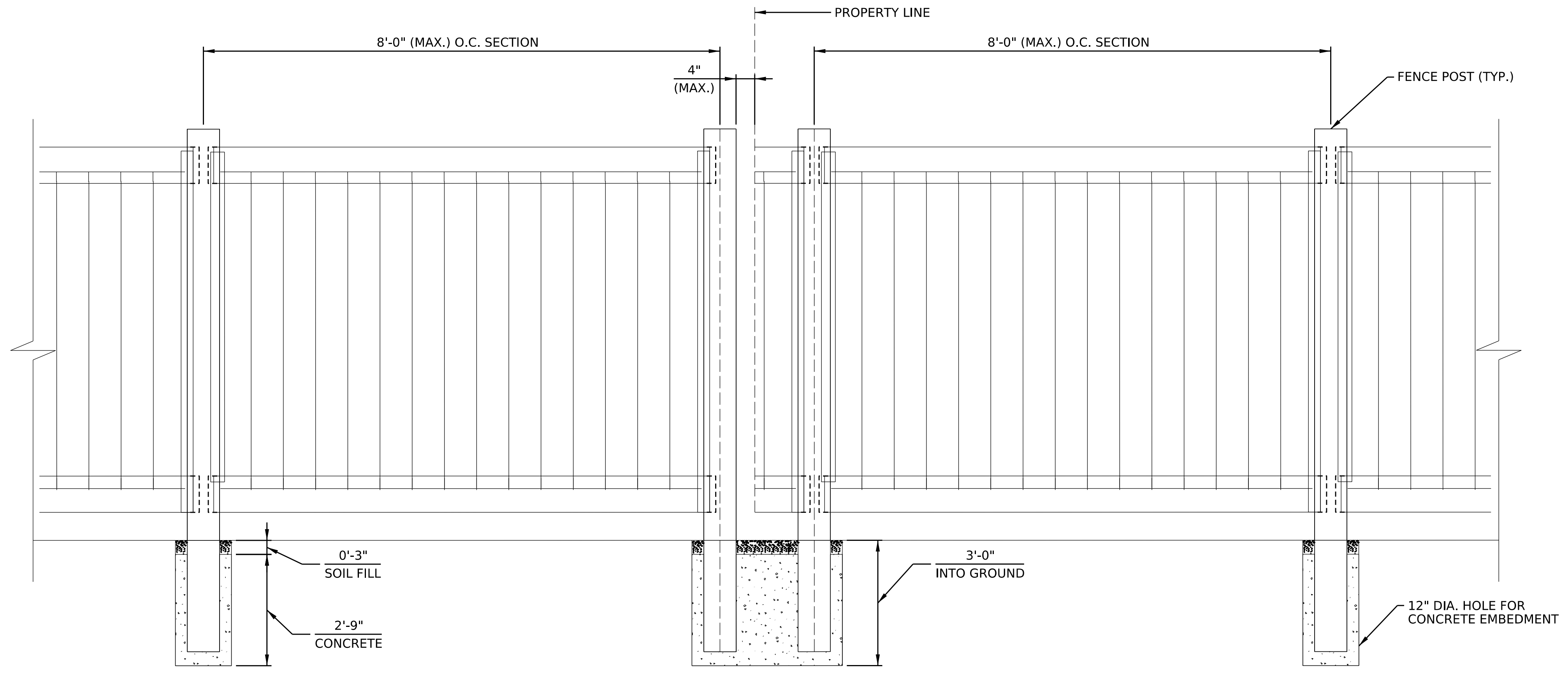
- 1. FOR NOTES, SEE SHEET NO.24.



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

REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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.

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



REV	DESCRIPTION	DATE
	SUBMITTED TO DEPARTMENT OF STREETS: DATE	
CITY OF PHILADELPHIA DEPARTMENT OF STREETS 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

