PROJECT NARRATIVE

THE PROJECT IS LOCATED AT 3301 23RD STREET SE, WASHINGTON, DC. THE SITE PROPERTY IS COMPOSED OF THREE PARCELS OPERATING AS A RESIDENTIAL APARTMENT COMPLEX. THE EXISTING APARTMENTS BUILDINGS WILL BE RAZED, INCLUDING THE EXISTING PARKING AREA, AND A NEW 4-STORY APARTMENT BUILDING WITH LINDERGROUND PARKING WILL BE CONSTRUCTED. THERE ARE 130 RESIDENTIAL UNITS PROPOSED AS PART OF THIS PROJECT

THE EXISTING BUILDING HAS EXISTING ELECTRIC TELECOM WATER AND SANITARY SEWER SERVICES. ALL OF THESE EXISTING SERVICES WILL BE ABANDONED OR REMOVED.

NEW UTILITIES WILL BE PROVIDED TO SERVICE THE PROPOSED APARTMENT BUILDING AS PART OF THIS PROJECT, WHICH INCLUDES A NEW DOMESTIC WATER LINE, A NEW FIRE WATER LINE, NEW STORM AND SANITARY LATERALS, AND NEW ELECTRIC SERVICE.

THE SITE DRAINS FROM THE NORTHWEST TO THE SOUTHEAST WITH EXISTING SLOPES MOSTLY IN THE RANGE OF 8 TO 15% ONSITE AND SOME ADJOINING SLOPES UP TO 40%. THE EXISTING SOILS ONSITE HAVE BEEN ALTERED BY PREVIOUS DEVELOPMENT AND PREDOMINATELY CONSIST OF KEPORT URBAN LAND COMPLEX AND UDORTHANTS. THE ADJOINING STEEP SLOPES CONSIST OF CHRISTIANA-URBAN LAND COMPLEX AND CROOM VERY GRAVELLY SANDY LOAM. ONSITE SOIL TESTING INDICATES PERCOLATION RATES THAT WILL REQUIRE SWM/BMP MEASURES TO HAVE UNDERDRAINS.

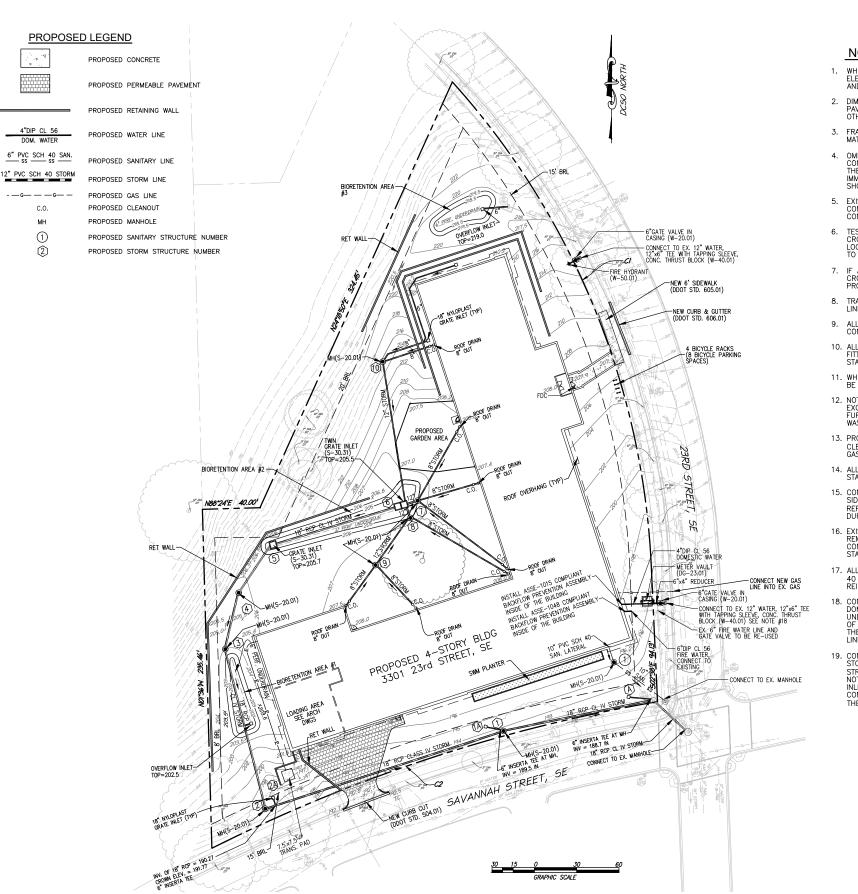
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THERE ARE NO EXISTING STORMWATER MANAGEMENT (SWM) FACILITIES ON THE PROPERTY. PROPOSED SWM MEASURES AS PART OF THIS PROJECT INCLUDE GREEN ROOF, BIORETENTION FACILITIES AND PLANTING LARGE TREES.





SITE AND UTILITY PLAN

NOTES

1. WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATIONS AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.

DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK OR PAVEMENT, CENTERLINE OF PIPE OR UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.

FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES AS NEEDED.

4. OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF ANY INFORMATION CONCERNING FOUND UTILITY IS NOT SHOWN ON PLANS

EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT OR ENGINEER.

TEST PITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO IDENTIFY HORIZONTAL LOCATIONS, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.

 IF A 1' MINIMUM VERTICAL CLEARANCE CANNOT BE MAINTAINED AT UTILITY CROSSINGS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.

TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND GRADE OR AS DIRECTED BY ENGINEER.

9. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.

ALL NEW WATER LINES TO HAVE A MINIMUM COVER OF 4 FEET. WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED PER DC WATER STANDARDS AND SPECIFICATIONS.

11. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.

12. NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO AN EXCAVATION IN THE VICINITY OF ANY GAS TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT CHUCK WHITLEY AT 100-000 AT 703 TO 100 AUG WASHINGTON GAS AT 703-750-4205.

13. PROVIDE A MINIMUM OF 5 FEET OF HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.

14. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF DDOT AND DC WATER.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, DRIVEWAYS, CURB AND GUTTER THAT IS TO REMAIN OR TO REPLACE SIDEWALK, DRIVEWAYS, AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.

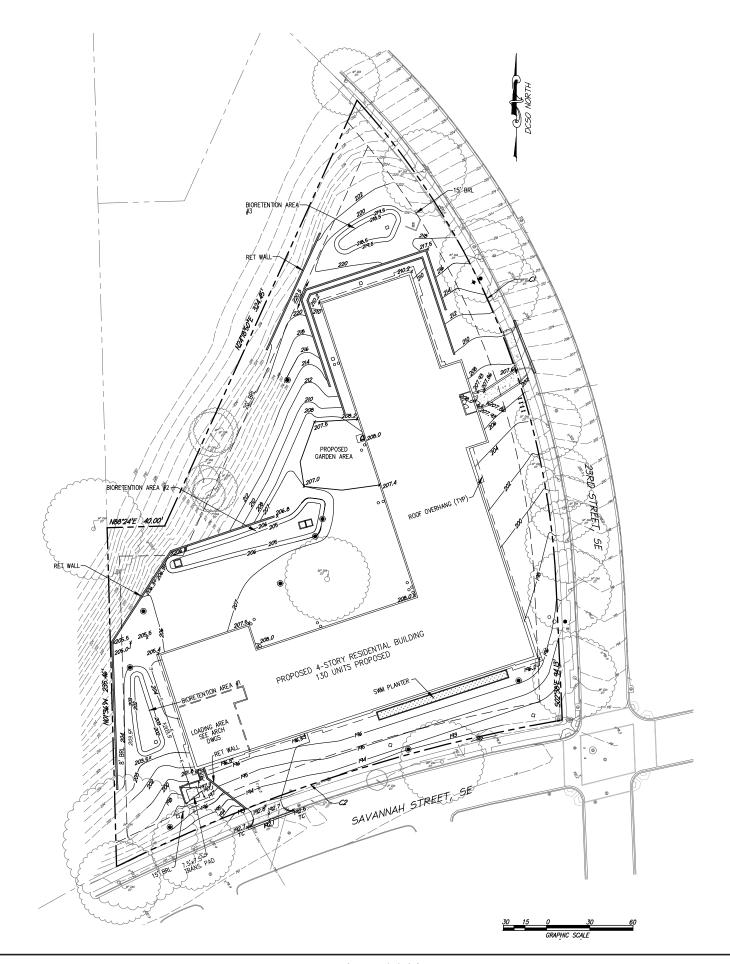
16. EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DDOT STANDARDS AND SPECIFICATIONS.

17. ALL STORM DRAINS 12" IN DIAMETER OR SMALLER SHALL BE SCHEDULE 40 PVC PIPE. ALL STORM DRAINS OVER 12" IN DIAMETER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV.

18. CONTRACTOR TO VERIFY IN THE FIELD THAT THE INSTALLATION OF DOMESTIC WATER LINE CONNECTION AT THE MAIN WILL NOT IMPACT THE UNDISTURBED SOIL BEHIND THE THRUST BLOCK AT THE TEE CONNECTION OF THE EXISTING FIRE WATER LINE THAT IS TO REMAIN. COORDINATE WITI THE CIVIL ENGINEER IF IT MAY BE NECESSARY TO SHIFT THE DOMESTIC LINE A LITTLE BIT FURTHER TO THE NORTH.

19. CONTRACTOR TO CLEAN THE EXISTING YARD INLET AND EXISTING 6" STORM SEWER OUTFALL PIPE ALL THE WAY OUT TO EXISTING STORM STRUCTURE #1978 LOCATED WITHIN PUBLIC SPACE. CONTRACTOR TO NOTIFY ENGINEER AND OWNER SHOULD THEY DISCOVER THAT EITHER THE INLET OR STORM PIPE ARE COMPROMISED AFTER CLEANING. IF SO, CONTRACTOR TO PROVIDE OWNER WITH AN ALTERNATE PRICE TO REPLACE THE INLET AND CON STORM DIDE UN OS STRUCTURE #1078 THE INLET AND/OR STORM PIPE UP TO STRUCTURE #1978.

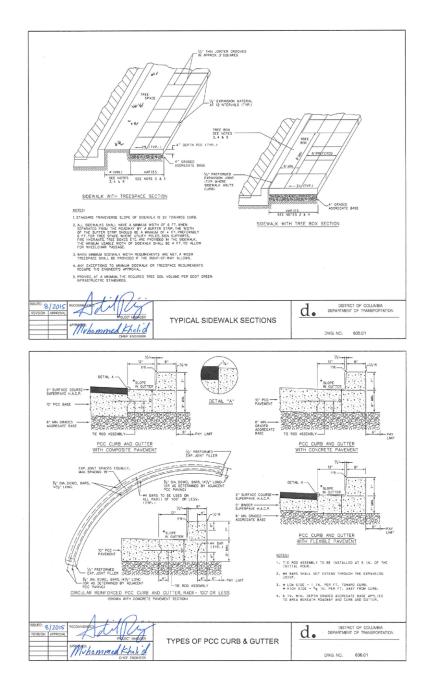


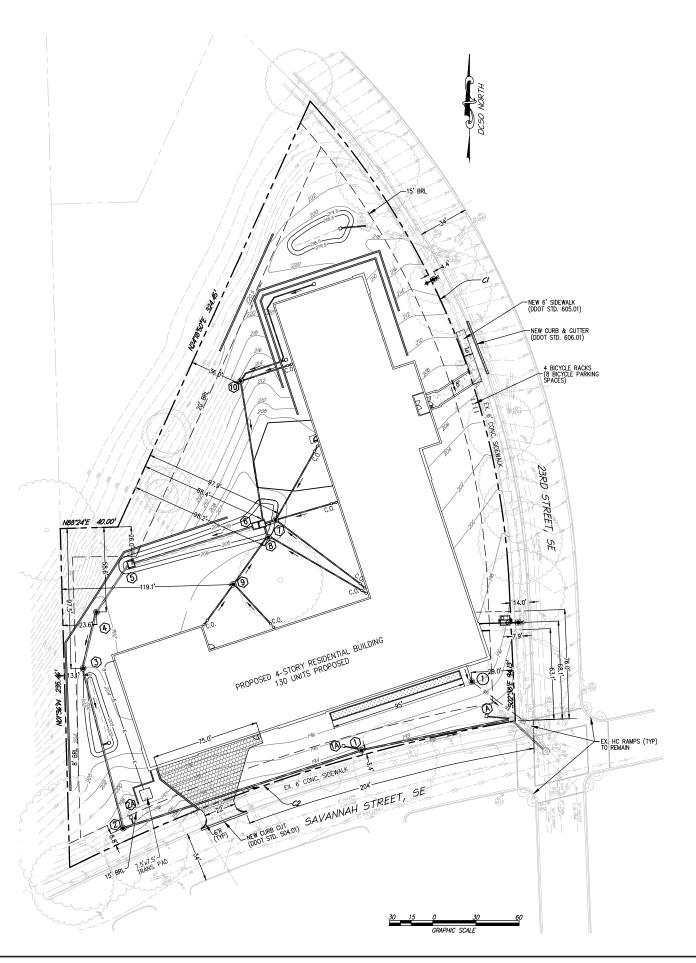




GRADING PLAN



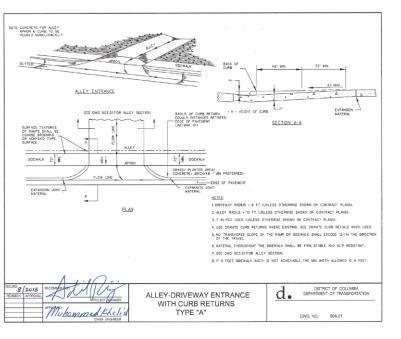








PUBLIC SPACE PLAN





STORMWATER MANAGEMENT NARRATIVE

THE EXISTING TERRACE MANOR APARTMENT BUILDINGS AND THE EXISTING PARKING LOT AREA ON THE PROPERTY WILL BE DEMOLISHED. THE PROJECT PROPOSES A NEW APARTMENT BUILDING AS WELL AS UNDERGROUND PARKING. THIS WORK IS CONSIDERED A MAJOR LAND DISTURBING ACTIVITY AND SHALL PROVIDE ON-SITE RETENTION OF THE FIRST 1.2 INCHES OF RAINFALL FOR THE ENTIRE AMOUNT OF DISTURBED AREA (93,470 SF). THESE NUMBERS WERE USED FOR THE STORWWATER MANAGEMENT COMPUTATIONS. ALSO, THE PROPERTY IS ZONED RA-1 (FORMER R-5-A), THEREFORE, GREEN AREA REQUIREMENTS APPLY TO THIS PROJECT AND REQUIRES A MINIMUM GREEN AREA RATIO SCORE OF 0.40.

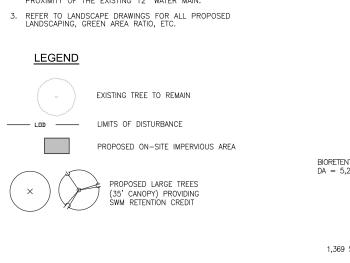
THE SITE IS LOCATED IN THE MS4 (SEPARATE SEWER SYSTEM AREA) AND IS WITHIN THE ANACOSTIA RIVER WATERSHED. HOWEVER, THE SITE IS LOCATED OUTSIDE OF THE ANACOSTIA WATERFRONT DEVELOPMENT ZONE (AWD2). THERE WILL BE A DECREASE IN STORM RUNOFF WHEN THE PROJECT IS CONSTRUCTED AND ALL STORWWATER MANAGEMENT MEASURES IMPLEMENTED WHEN COMPARED TO CURRENT EXISTING CONDITIONS.

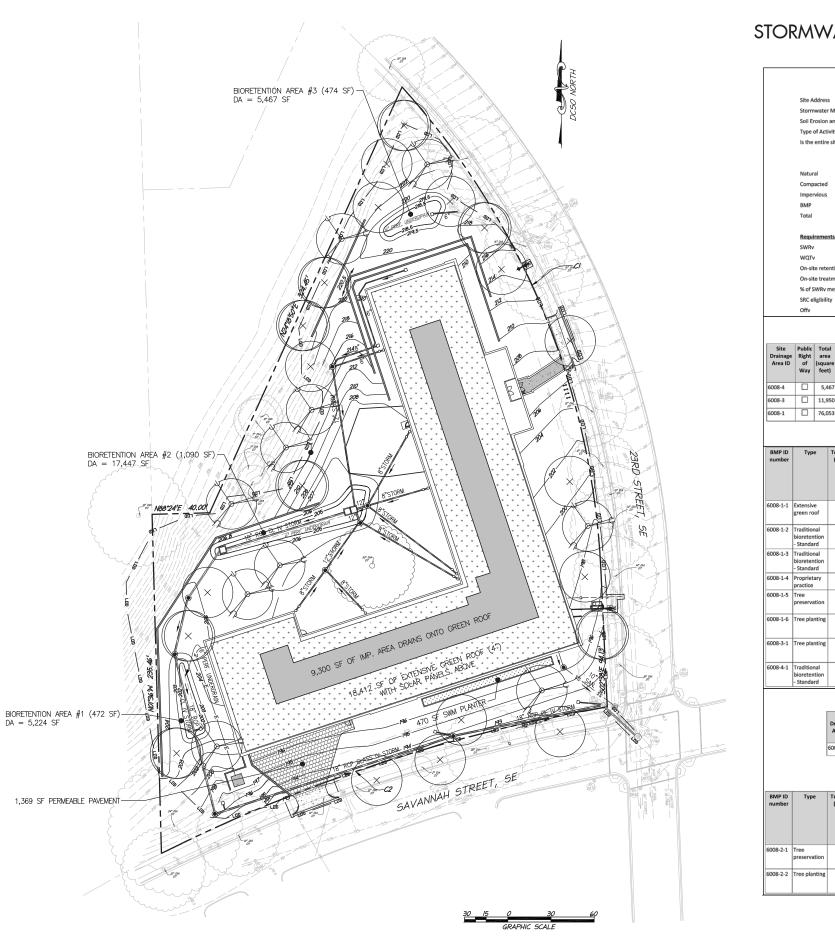
THE GENERAL RETENTION COMPLIANCE CALCULATOR WAS USED IN DOEE'S SWM DATABASE TO DEMONSTRATE THE REQUIRED AMOUNT OF STORMWATER RETENTION HAS BEEN PROVIDED. THE SITE'S STORMWATER RETENTION VOLUME (SWRV) IS BASED UPON 93,470 SF OF "MAJOR LAND DISTURBING ACTIVITY" WHICH UTILIZES A 1.2" REGULATORY RAIN EVENT. THIS RESULTS IN A SWRV OF 4,654 CF (35,328 GALLONS) THAT MUST BE PROVIDED FOR ON-SITE.

PROPOSED SWM CONTROLS INCLUDE A LARGE AMOUNT OF EXTENSIVE GREEN ROOF, THREE BIORETENTION AREAS, LARGE TREE PLANTINGS, PERMABLE PAVEMENT TO TREAT VEHICULAR TRAFFIC AND A STORWATER MANAGEMENT PLANTER ALONG THE SOUTH SIDE OF THE BUILDING.

NOTES

- SEE SHEET C-402 FOR PLANT LIST AND SPECIFIC BIORETENTION DETAILS, INCLUDING BIORETENTION MATERIAL SPECIFICATIONS AND BIORETENTION PLANT LISTS.
- 2. DC WATER REQUIRES A MINIMUM 6-FOOT CLEARANCE FROM A WATER MAIN TO A TREE BODY, AND WILL NOT ALLOW ANY NEW TREES TO BE PLANTED ALONG THE WESTERN SIDE OF 23RD STREET RIGHT-OF-WAY DUE TO THE CLOSE PROXIMITY OF THE EXISTING 12" WATER MAIN.









			S	itorm	water	Mana	agemen	it Pla	n Co	mplia	nce Da	ita				
te Ad	ldress			3301 2	23rd Stre	et SE	P	lan num	ber	6	008					
orm	water Ma	anagement	Plan?	Yes			6	Green Ar	ea Ratio	ο? Υ	es					
oil Ere	osion an	d Sediment	Contro	I? Yes			F	loodplai	in Revie	w? N	lo					
/pe o	f Activity	/		Major	Land Dis	sturbing	A	WDZ?		Non-AWI	DZ					
the e	entire sit	e in the CSS	S?	No												
		Total Area	a (sf) S	ite Area	PRO	w	c	Curve Nu	mbers							
atura	il .	0	0		0			Addit	ional De	tention	Provided					
ompa	icted	60,738	6	0,363	375		P	re-deve	lopmen	t 7	0 2-ye	ar storm adj	usted CN	66		
nperv	vious	13,284	1	2,659	625		P	re-proje	ect	9	2 15-y	ear storm ad	ijusted CN	72		
MP		20,448	2	0,448	0						100	-year storm a	adjusted CN	75		
otal		94,470	9	3,470	1,00	00										
equir	ements	Summary	(total is	s the sum	of PROV	V and Parc	el)	F	ROW (1	t³) P	arcel (ft ³)	Total (ft ³	3) Tot	al (Gallons)		
WRv								E	i9	4	,654	4,723	35,3	328		
/QTv								C)	0		0	0			
n-site	e retenti	on achieved	d					7	0	4	,822	4,892	36,	596		
n-site	e treatm	ent achieve	ed					C)	4	05	405	3,0	32		
of SI	NRv met	on-site						1	.02%	1	04%	103.59%	103	.59%		
RC eli	gibility												1,2	58		
ffv													0			
					Sit	e Drain	age Area	Comp	liance	Data						
							-									
blic ght of av	Total area (square feet)	Natural (square feet)	Compae (squa feet	re (s	ervious quare 'eet)	BMP (square feet)	Vehicular access area		WQTv (cubic feet)	Volume retained (cubic feet)		2-year storm adjusted Curve	15-year storm adjusted Curve	100-year storm adjusted Curve	SDA Minimum Compliance	
ay	ieet)									ieet)	ieet)	Number	Number	Number		

5,46

11.950

4,99

11.650

43,720

12,359 19,974

2,845 4,165

4,422

405

	Site BMP Compliance Data												
уре	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
sive roof	27,716			9,304	18,412			3,730		100% of storage volume	3,304		
ional ention dard	5,224		4,752		472			232		60% of storage volume	232		
ional ention dard	17,447		16,357		1,090			726		60% of storage volume	726		
ietary ce	3,480		635	2,845		2,845		405	699			405	
rvation										20 cubic feet per tree	20		
lanting										10 cubic feet per tree	140		
lanting										10 cubic feet per tree	160		
ional ention dard	5,467		4,993		474			241		60% of storage volume	241		
				PROW Dra	inage (rea Com	nliance D	ata					

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Site Drainage Area ID		Total area (square feet)	(square		Impervious (square feet)	BMP (square feet)	(cubic	retained	
6008-2	\boxtimes	1,000		375	625		69	70	

PROW BMP Compliance Data

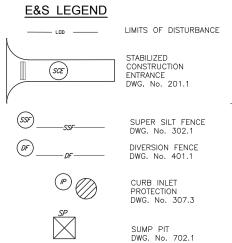
Гуре	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	volume	Retention calculation		Downstream BMP ID Numbers
ervation										20 cubic feet per tree	40	
planting										10 cubic feet per tree	30	



64 Yes

73 Yes

76 Yes



(DF

(TP

M

NOTE: WHEN EXCAVATION IS PROPOSED IMMEDIATELY ADJACENT TO THE CRZ, ROOTS MUST FIRST BE PRUNED AT THE EDGE OF THE EXCAVATION WITH A TRENCHING MACHINE, VIBRATORY KNIFE OR VERTICAL SAW TO A DEPTH OF 18 INCHES.

<u>EROSION & SEDIMENT CONTROL NARRATIVE</u>

- THE CONTRACTOR SHALL CALL THE DOEE INSPECTIONS & ENFORCEMENT BRANCH, WATERSHED 1. PROTECTION DIVISION, AT (202) 535–2977 FOR A PRE-CONSTRUCTION MEETING 72 HOURS PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES, SILT FENCE, TEMPORARY CONSTRUCTION 2. ENTRANCE AND INLET PROTECTIONS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. INSTALL SEDIMENT TANK AND SUMP PIT. RELOCATE AS NECESSARY TO EFFECTIVELY TREAT DIRTY WATER FROM LEAVING THE SITE DURING CONSTRUCTION.
- DEMOLISH EXISTING BUILDING, PAVEMENT, STAIRS, SIDEWALK, RETAINING WALL, UTILITIES, UTILITY STRUCTURES AND OTHER ITEMS AS SHOWN ON THE DEMOLITION PLAN. ABANDON EXISTING DOMESTIC WATER LINE AT THE MAIN PER DC WATER STANDARDS. .3.
- STABILIZE DENUDED AREAS. 4
- INSTALL ALL PROPOSED NEW UNDERGROUND UTILITIES AND UTILITY STRUCTURES. 5.
- CONSTRUCT NEW BUILDING, RETAINING WALLS, DRIVEWAY ENTRANCE, AND ALL OTHER NEW WORK SHOWN ON THE SITE PLAN. BIORETENTION AREAS SHALL BE PROTECTED VIA SILT FENCE UNTIL SITE IS FULLY STABILIZED AND FINAL INSPECTION PERFORMED BY DOEE SITE INSPECTOR JUST PRIOR TO BUILDING OCCUPANCY.
- 7. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES REQUIRES PRIOR APPROVAL FROM DOEE SITE INSPECTOR.

MAINTENANCE PROGRAM

ALL SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT AND ANY DAMAGED FACILITY IS TO BE REPAIRED BY THE CLOSE OF THE WORKDAY, TRAPS AT STORM STRUCTURES ARE TO BE CLEANED AFTER EACH RAINFALL AND INLET PROTECTION MAY BE REMOVED ONLY AFTER UPSTREAM AREAS HAVE BEEN STABILIZED WITH A PERMANENT SURFACE AND DOEE INSPECTOR APPROVAL. PROVIDE PORTBALE SEDIMENT TANK AND SUMP PIT IF REQUIRED TO DEWATER THE SITE.

EROSION AND SEDIMENT CONTROL MEASURES

THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS:

- PROVIDE SUPER SILT FENCE IN LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. INSTALL SAFETY FENCE AS NEEDED ALONG THE PERIMETER OF THE LIMITS OF DISTURBANCE.
- <u>STORM DRAIN INLET PROTECTION</u> SHALL BE PROVIDED FOR ALL EXISTING INLETS IN THE VICINITY OF THE PROPERTY THAT ARE TO REMAIN AS SHOWN ON THE SEDIMENT CONTROL PLAN.
- <u>CONSTRUCTION ENTRANCE</u> A TEMPORARY, STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH CITY STANDARDS WITH A LENGTH OF AT LEAST 50 LINEAR FEET WILL BE PROVIDED AT THE LOCATION SHOWN ON THE SEDIMENT CONTROL PLAN PLANS. THE ENTRANCE SHALL BE MAINTAINED IN GOOD REPAIR AND SHALL PROVIDED REMOVAL OF DEBRIS FROM VEHICLES PRIOR TO LEAVING THE CONSTRUCTION SITE. WATER FOR THE WASH RACK TO BE PROVIDED BY A WATER TANK TRUCK IF PUBLIC WATER IS NOT AVAILABLE. .3
- <u>DUST CONTROL</u> DUST CONTROL SHALL BE PROVIDED AS NECESSARY DURING DEMOLITION OPERATIONS TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY PRODUCE HEALTH HAZARDS OR TRAFFIC SAFETY PROBLEMS.
- IF AT ANY TIME DURING SITE DEMOLITION THERE IS ANY EXPOSED SOIL, IT SHALL BE 5. <u>STABILIZED WITH TEMPORARY SEEDING.</u> SEEDING MIXTURES AND SURFACE TREATMENT SHALL BE BASED UPON RECOMMENDATIONS LISTED ON SHEET C-801 AND SHALL BE VERIFIED WITH THE CITY INSPECTOR BASED UPON CONSTRUCTION DATES.

UTILITY INSTALLATION NOTES

- PLACE EXCAVATED MATERIALS UPSI OPF OF THE TRENCH.
- FILTER WATER PUMPED FROM EXCAVATIONS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM. PROVIDE STABILIZATION (INTERIM OR PERMANENT) AFTER THE TRENCH IS REFILLED.

Architecture · Interiors





TERRACE MANOR 3301 23RD ST SE

