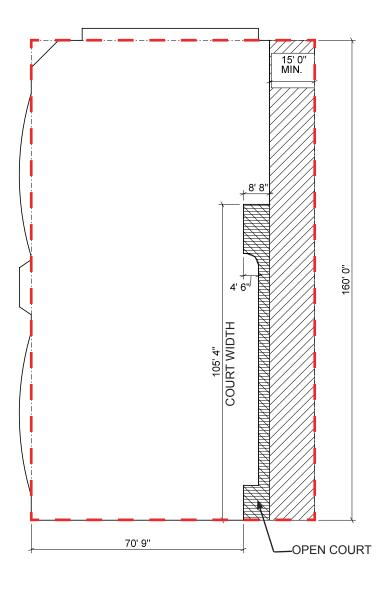


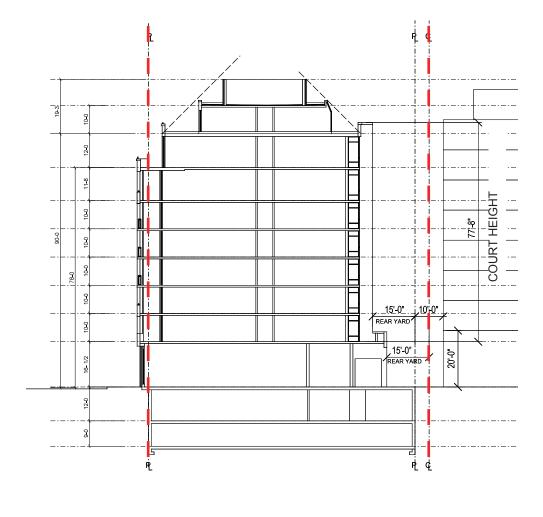




9TH STREET NW 84' 5 1/4" 10' 0" 5' 0"

O STREET NW





REAR YARD - BELOW 20'

Minimum Depth of Rear yard required for C2B - 15'-0" 774.7 (a)- For portion of structure below a horizontal plane 20' above the mean finished grade at the middle of the rear of the structure from the center line of the alley to the rear wall of the portion.

REAR YARD - ABOVE 20'

Minimum Depth of Rear yard required for C2B - 15'-0" 774.7 (b)- For that portion of the structure above the horizontal plane 20' above the mean finished grade at the middle of the rear of the structure, the depth of rear yard shall be measured from the rear lot line to the rear wall of that portion immediately above the plane.

OPEN COURT WIDTH PROVIDED- 105.33'

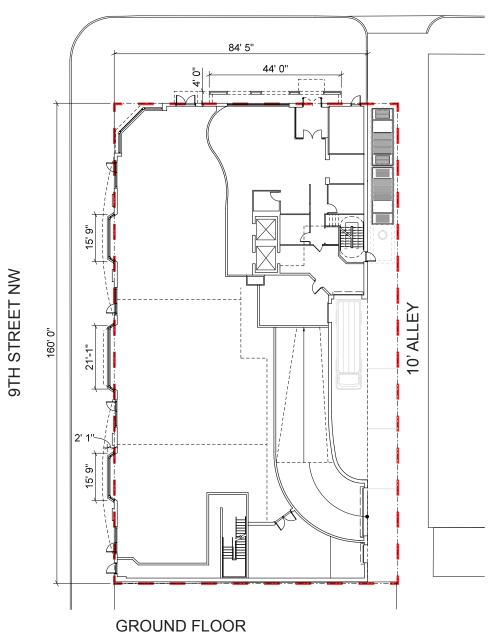
CROSS SECTION

776.3- Open court for residential use Minimum width 4"per foot of height measured from the lowest level of the court, no less than 15' 4"/77.66' = 25.88'





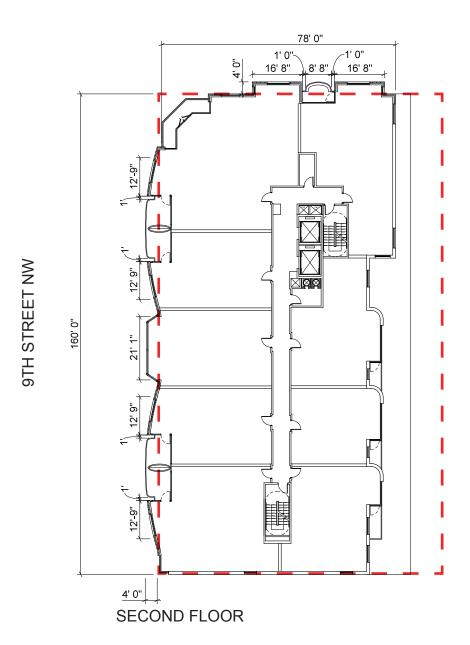
FOUR POINTS



Sum of all projections- 13' for 24' in building width, 6 inches additional for every additional foot of building width

WIDTH OF DISPLAY WINDOWS & TOWER, Linear feet

WIDTH OF DISTERN WINDOWS & TOWER, Effect feet				
	BUILDING WIDTH	Allowed	Proposed	
9TH STREET	160'	81'	53'	
O STREET	85.41'	43'	44'	
TOTAL		121'	97'	



Sum of all projections- 13' for 24' in building width, 6 inches additional for every additional foot of building width

WIDTH OF BAY PROJECTIONS & TOWER, Linear feet

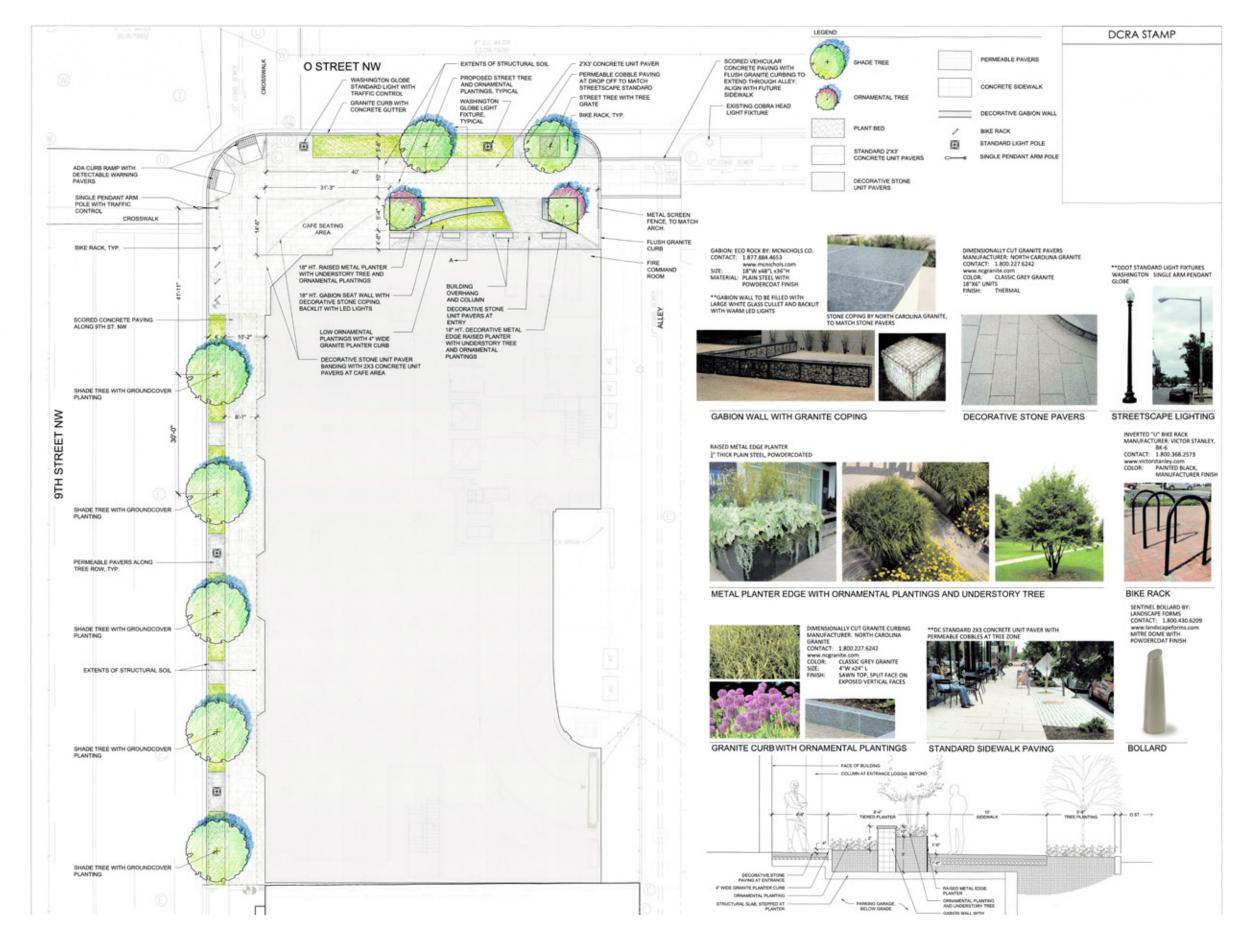
	BUILDING WIDTH	Total Allowed	Total Proposed
9TH STREET	160'	81'	72'
O STREET	78'	40'	34'
TOTAL		121'	106'

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PROJECTIONS IN PUBLIC SPACES COMPUTATION

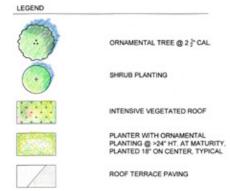


FOUR POINTS





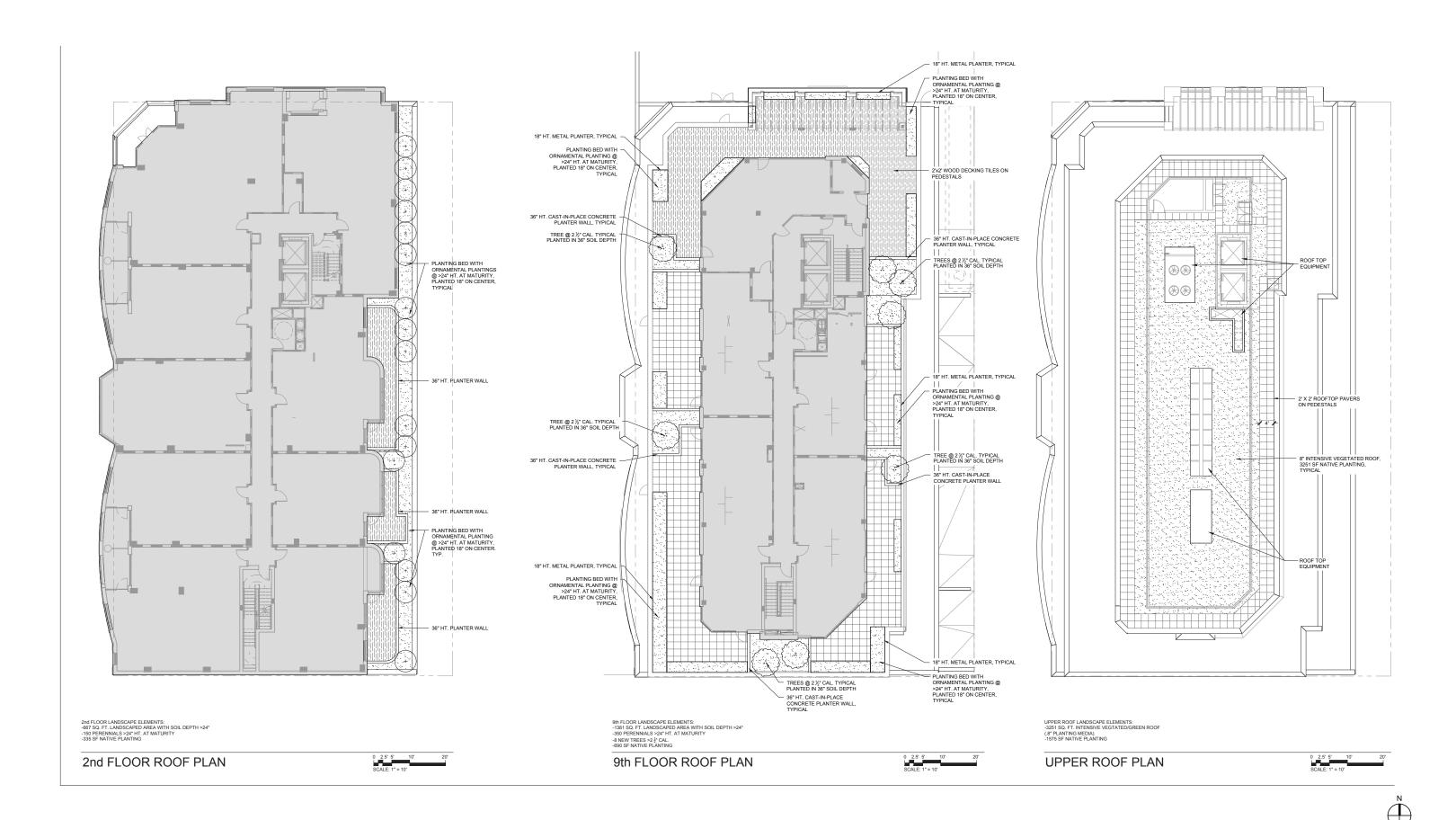




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L02

ROOF PLAN



GREEN AREA RATIO PLANS LO3

* * *	Old O Charact NW				coresheet Zoning District
	Address 810 O Street, NW	Ward	Lot 66	Square 39	PUD - C-2-B
1	Other / BZA Order	enter sq ft of			
Davidson or	Lot size (enter this value first) *	15,110		multipli SCORE	0.418
	Landscape Elements	13,110	Square Ft.	Factor	Total
Α	Landscaped areas (select one of the following for each area)				
		_	enter sq ft		
1	Landscaped areas with a soil depth of less than 24"	L	0	0.3	-
		_	enter sq ft		
2	Landscaped areas with a soil depth of 24" or greater	L	0	0.6	-
		-	enter sq ft		
3	Bioretention facilities	L	0	0.4	-
В	Plantings (credit for plants in landscaped areas from Section A)				
1	Groundcovers, or other plants less than 2' tall at maturity	Г	enter sq ft	0.2	-
		-	•		
2	Plants, not including grasses, 2' or taller at maturity - calculated	enter number of plant	s 3600	0.3	1,080.0
	at 9 sq ft per plant (typically planted no closer than 18" on center)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3	Tree canopy for all new trees 2.5" to 6" diameter	enter number of trees	400	0.5	200.0
	or equivalent - calculated at 50 sq ft per tree				
4	Tree canopy for new trees 6" diameter or larger	enter number of trees	0	0.6	_
	or equivalent - calculated at 250 sq ft per tree				
5	Tree canopy for preservation of existing tree 6" to 12" diameter	enter number of trees	0	0.7	_
	or larger or equivalent - calculated at 250 sq ft per tree		Ü	0	
6	Tree canopy for preservation of existing tree 12" to 18" diameter	enter number of trees	0	0.7	_
	or larger or equivalent - calculated at 600 sq ft per tree		Ü	0	
7	Tree canopy for preservation of all existing trees 18" to 24" dia.	enter number of trees		0.7	
′	or equivalent - calculated at 1300 sq ft per tree	U	U	5.7	-
8	Tree canopy for preservation of all existing trees 24" diameter	enter number of trees		0.0	
0	or larger or equivalent - calculated at 2000 sq ft per tree	0	0	0.8	-
9	Vegetated wall, plantings on a vestical surface	п	enter sq ft	0.0	
9	Vegetated wall, plantings on a vertical surface	L	0	0.6	-
С	Vegetated or "green" roofs				
		-	enter sq ft		
1	Over at least 2" and less than 8" of growth medium	L		0.6	-
		-	enter sq ft		
2	Over at least 8" of growth medium	L	5,299	8.0	4,239.2

D	Permeable Paving***		
1	Permeable paving over at least 6" and less than 24" of soil or gravel	o 0.4	-
2	Permeable paving over at least 24" of soil or gravel	enter sq ft 0 0.5	-
E	Other		
1	Enhanced tree growth systems***	o 0.4	-
2	Renewable energy generation	enter sq ft 0 0.5	-
3	Approved water features	enter sq ft 0 0.2	-
		sub-total of sq ft = 9,299	
Н	Bonuses		
1	Native plant species	2,600 0.1	260.0
2	Landscaping in food cultivation	enter sq ft 0 0.1	-
3	Harvested stormwater irrigation	enter sq ft 5,299 0.1 Green Area Ratio numerator =	
*** Perme	able paving and structural soil together may not qualify for more than one third Total square footage of all permeabl	-	
	rotui square jootage oj ali permeabi	e paving and emidificed tree growth	-



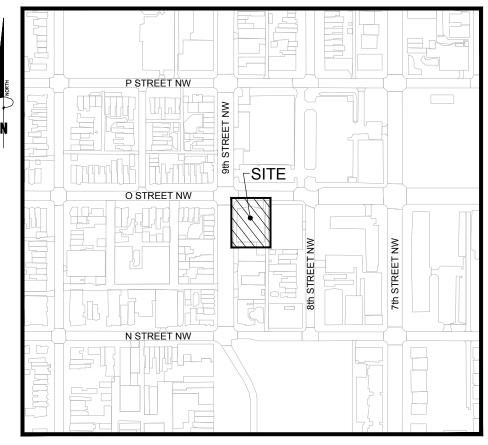
Gensler



SQUARE 399 LOT 66 WASHINGTON, DC

ABBREVIATIONS:

APPROX	APPROXIMATE		
ASPH	ASPHALT	EX	EXISTING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FC	FACE OF CURB
AWWA	AMERICAN WATER WORKS ASSOCIATION	FD	FLOOR DRAIN
BC	BACK OF CURB	FF	FIRST FLOOR
BF	BASEMENT FLOOR	FG	FINISH GRADE
BLDG	BUILDING	FH	FIRE HYDRANT
ВМ	BENCHMARK	FL	FLOW LINE
BOV	BLOW OFF VALVE	G	GAS
BRL	BUILDING RESTRICTION LINE	GR	GUARD RAIL OR GRATE INLET
BW	BOTTOM OF WALL	HC	HANDICAP
C&G	CURB AND GUTTER	HP	HIGH POINT
CB	CATCH BASIN	HR	HAND RAIL
CC	CONCRETE CURB	INV	INVERT
CIP	CAST IRON PIPE	IΡ	IRON PIPE
Q.	CENTERLINE	IPS	IRON PIPE SET
CMP	CORRUGATED METAL PIPE	LP.	LOW POINT
CO	CLEAN OUT	MH	MANHOLE
CONC	CONCRETE	0/H	OVERHEAD
DIP	DUCTILE IRON PIPE	PCC PROP	PORTLAND CEMENT CONCRETE PROPOSED
DI	DROP INLET	PVMT	PAVEMENT
DOM	DOMESTIC	SAN	SANITARY
EBL	EAST BOUND LANE	SEW	SEWER
EG EL	EDGE OF GUTTER ELEVATION	STD	STANDARD
ELEC	ELECTRIC	S/W	SIDEWALK
ELEV	ELEVATION	TC.	TOP OF CURB
ENT	ENTRANCE	TEL TP	TELEPHONE
EP	EDGE OF PAVEMENT	TW	TEST PIT OR TREE PROTECTION TOP OF WALL OR TAILWATER
EQUIP	EQUIPMENT	UP	UTILITY POLE
ESMT	EASEMENT	UG	UNDERGROUND
EW	END WALL	UGE	UNDERGROUND ELECTRIC
		UGT	UNDERGROUND TELEPHONE
		UGC	UNDERGROUND CABLE
		UD	UNDERDRAIN
		WL.	WATER LINE
		WM	WATER METER
		WIN	WAILK MEILK



VICINITY MAP SCALE: 1" = 300'

UTILITY CONTACTS:

DC WATER - (202) 787-4299 5000 OVERLOOK AVE. SW 5TH FLOOR SEWER/WATER:

WASHINGTON, DC 20032

PEPCO - FRED JOHNSON (202) 872-2833 701 9TH STREET NW, ROOM 6005 WASHINGTON, DC 20068 ELECTRICITY:

WASHINGTON GAS CO. – VANN JONES (703) 750–5983 6801 INDUSTRIAL ROAD SPRINGFIELD, VA 22151

VERIZON COMMUNICATIONS - DIVINA YANCEY (301) 282-7736

FDC-1 13101 COLUMBIA PIKE CONDUIT GROUP - LOWER LEVEL SILVER SPRING, MD 20904

PROJECT NARRATIVE:

THIS PROJECT CONSISTS OF THE DEVELOPMENT OF A RESIDENTIAL BUILDING WITH LOWER LEVEL RETAIL ALONG WITH ASSOCIATED IMPROVEMENTS AT 810 0 STREET NW. THE SITE WILL BE SERVICED BY NEW WATER, FIRE PROTECTION, STORM DRAIN, AND SANITARY SEWER. STORM WATER MANAGEMENT WILL BE MET WITH GREEN ROOF AND CISTERN FOR WATER REUSE.

ENGINEER

BOWMAN CONSULTING GROUP DC PC 888 17th STREET NW WASHINGTON, DC 20006

(202) 750–2474 ATTN: RYAN J BRANNAN, P.E.

INDEX CONTOUR -350-INTERMEDIATE CONTOUR - 352-NEW E.P. EDGE OF PAVEMENT CURB AND GUTTER TRANSITION PROPOSED HEADER CURE PROPERTY LINE LOT LINE RIGHT-OF-WAY EASEMENT EX 8" WATER W 8" DIP WATER WATER LINE WATER VALVE WATER REDUCER WATER METER -S — (S) EX 8" SAN SANITARY SEWER STORM SEWER CABLE TV ELECTRIC SERVICE-UNDERGROUND ELECTRIC SERVICE-OVERHEAD OVERHEAD TELEPHONE - ОНТ-TELEPHONE SERVICE GAS LINE ₄00<u>00</u> SPOT ELEVATION UTILITY POLE ø GUY POLE Т TRANSFORMER SIGN \bigcirc SANITARY SEWER IDENTIFIER 4 STORM DRAIN IDENTIFIER FIRE HYDRANT **⊦•** STREET LIGHT ○ ☆ ----TEST PIT LOCATION RECOMMENDED/REQUIRED HANDICAP RAMP TREE CONCRETE SIDEWALK

LEGEND

PROPOSED

EXISTING

CIVIL DRAWING LIST - PUD:

C0.01 COVER SHEET GENERAL NOTES

C1.01 EXISTING CONDITIONS PLAN

EROSION AND SEDIMENT CONTROL PLAN - PHASE 1 EROSION AND SEDIMENT CONTROL PLAN - PHASE 2 C1.03

C1 04 SITE PLAN

UTILITY PLAN C1.05

C1.06 GRADING PLAN C5.01

EROSION AND SEDIMENT CONTROL NOTES EROSION AND SEDIMENT CONTROL DETAILS C5.02

STORMWATER MANAGEMENT PLAN

C7.01 STORMWATER MANAGEMENT DETAILS

COVER SHEET



DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OFF SITE.
- REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.
- EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM A SURVEY PREPARED BY VIKA, ENTITLED, "BOUNDARY AND TOPOGRAPHIC SURVEY, SQUARE 399, LOT 66, WASHINGTON, DC", DATED 5/28/15, AND FROM AVAILABLE UTILITY COMPANY
- ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRICAL, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE RECORDS AND FIELD VERIFIED WHERE POSSIBLE. THE LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK REPORT ANY DISCREPANCY TO THE ENGINEER. MARKING LOCATIONS OF EXISTING UTILITIES, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY
- THE CONTRACTOR MUST <u>HAND-DIG</u> TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES AS WELL IN DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURE. UTILITIES FOUND DURING DEMOLITION OF CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR DEMOLITION AS PER DISTRICT OF COLUMBIA EROSION AND CONTROL HANDBOOK. IF ANY ONSITE INSPECTION REVEALS FURTHER REGISION CONTROL MEASURES ARE NECESSARY. THE SAME SHALL BE PROVIDED. REFER TO SHEETS C1.03, C5.01 AND C5.02 SEDIMENTATION AND EROSION CONTROL PLANS, NOTES, AND DETAILS.
- 8. SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND BE PROTECTED.
- NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.
- EXISTING UTILITIES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AS PER UTILITY PURVEYOR'S. STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH UTILITY PURVEYOR'S.
- REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS
 OTHERWISE INDICATED ON THESE DRAWINGS.
- 12. ALL EXISTING DC STREETLIGHT POLES THAT ARE BEING PERMANENTLY REMOVED MUST BE RETURNED IN GOOD CONDITION TO THE DISTRICT OF COLUMBIA WAREHOUSE AT 1735 15TH STREET NE OFF WEST VIRGINIA AVENUE CONTACT NUMBER
- EXISTING WATER AND SEWER SERVICES NOT REQUIRED FOR FUTURE USE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER OF SERVICE TO BE CAPPED AT MAIN AND EXISTING VALVES AND TEES TO BE REMOVED PER DC,WATER STANDARDS SPECIFICATIONS.COORDINATE REQUIREMENTS WITH DC WATER UTILITY INSPECTOR AT 202-787-4299, PACEMENT TO BE REMOVED PER DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS
- 14. CONTRACTOR TO BE RESPONSIBLE FOR LAYOUT, EXTENT AND DESIGN OF SHEETING, SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES, SHORING, BRACING AND UNDERPINNING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, LICENSED IN THE DISTRICT OF COLUMBIA, HIRED BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND UTILITIES.
- CONTRACTOR TO RELOCATE PARKING METERS IF REQUIRED AND AS DIRECTED BY D.C. BUREAU OF PARKING. COORDINATE REQUIREMENT WITH LARRY BROWN OF PARKING SERVICES AT 202-671-2291.
- 16. NOTIFY DC WATER AT (202) 787-4299 48 HOURS PRIOR TO START OF CONSTRUCTION.
- UNLESS OTHERWISE SHOWN ON THESE DRAWINGS, EXISTING PAVEMENT ON O STREET NW AND 9TH STREET NW TO REMAIN. PROVIDE PRE-CONSTRUCTION VIDEO OF EXISTING PAVEMENT ON O STREET NW AND 9TH STREET NW EXISTING PAVEMENT THAT IS DISTURBED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED PER DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AT NO ADDITIONAL COST.
- 18. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES VERIFY INVERT ELEVATION OF EXISTING UTILITIES. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH INFORMATION SHOWN PRIOR TO ORDERING ANY STRUCTURES.
- 19. CONTACT 'MISS UTILITY' AT 1 800 257-7777 48 HOURS PRIOR TO CONSTRUCTION.
- CONTACT DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION-PUBLIC SPACE MAINTENANCE ADMINISTRATION 48
 HOURS PRIOR TO START OF CONSTRUCTION AT (202) 645-6030 OR (202) 645-6031.
- 21. ALL PROPOSED UTILITY WORK TO BE PERFORMED UNDER THE INSPECTION OF DC WATER.
- 22. USE MANHOLE ENTRY SEALS WHERE REQUIRED.
- 23. CONTRACTOR TO PROVIDE A PRE AND POST TV VIDEO SEWER ON EXISTING SEWER AROUND THE SITE PER DC WATER STANDARDS AND SPECIFICATIONS.

SITE NOTES:

- WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATION AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ARCHITECT OR ENGINEER.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S
 REPRESENTATIVE, DC WATER (202-787-4299) AND "MISS UTILITY" (1-800-257-7777) 48 HOURS
 BEFORE PROCEEDING WITH ANY EXCAVATIONS. HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND
 DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION.
 NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
- 3. WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS CODE.
- 4. ELEVATIONS SHOWN HEREON ARE BASED ON D.C. DATUM.
- DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE. UNLESS OTHERWISE NOTED.
- 6. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
- 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 OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
- 9. TEST PITS ARE REQUIRED AT ALL LOCATIONS) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- 10. IF A 1' MINIMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- 11. TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
- 12. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- 13. ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DC WATER STANDARDS AND SPECIFICATIONS.
- 14. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- 15. REMOVE FRAMES AND COVERS OF SEWER MANHOEE/INEETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
- 16. ALL CURB SPOT SHOTS ARE TOP OF CURB, UNLESS OTHERWISE NOTED. 17. NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITEY AT WASHINGTON GAS AT 703-750-4205.
- 17. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND PROPOSED FACILITIES.
- 19. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION AND WATER AND SEWER AUTHORITY.
- 21. 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 DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

DC WATER STANDARD CONSTRUCTION NOTES:

- CONTACT: NOTIFY THE FOLLOWING DC WATER DEPARTMENTS PRIOR TO THE COMMENCEMENT OF UTILITY
 - CONSTRUCTION:

 O CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING.

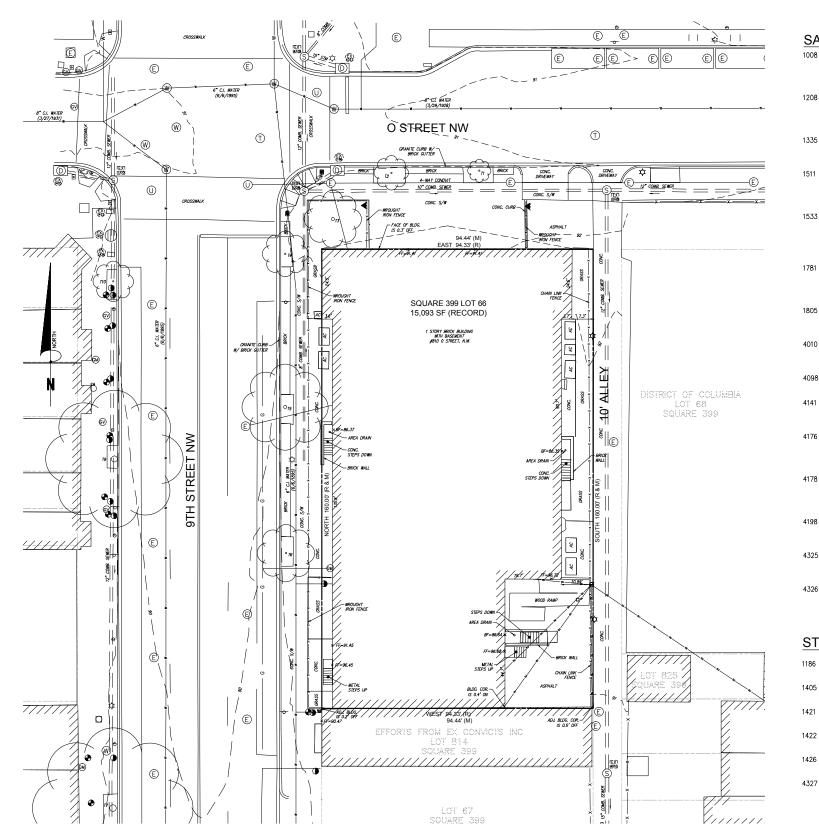
 WATER SERVICES AT 202-612-3400 OR 3460 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.

 C) SEWER SERVICES AT 202-264-3824 OR 3829 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.
- STANDARDS: ALL CONSTRUCTION, MATERIALS, AND APPURTENANCES SHALL COMPLY WITH THE LATEST EDITIONS OF THE DC WATER PROJECT DESIGN MANUAL, STANDARD DETAILS & DESIGN GUIDELINES, AND SPECIFICATIONS.
- LEAD SERVICE REPLACEMENT: IF THIS PROJECT INCLUDES THE REPLACEMENT OF A WATER MAIN THAT HAS EXISTING LEAD WATER SERVICE LATERALS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DC WATER CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST 90 DAYS PRIOR TO CONSTRUCTION TO ALLOW ADEQUATE TIME TO INITIATE STANDARD LEAD SERVICE REPLACEMENT PROTOCOL. LATERAL REPLACEMENT INCLUDES THE FULL LENGTH OF PIPE IN PUBLIC SPACE.
- OWNER RESPONSIBILITY: THE OWNER IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH EXCAVATION, INSTALLATION, AND RESTORATION OF PUBLIC SPACE TO PERFORM A WATER/SEWER CONNECTION/ABANDOMMENT. ONCE THE CONTRACTOR HAS OBTAINED A PUBLIC SPACE PERMIT HE/SHE MUST THEN CONTACT DC WATER PRIOR TO PERFORMING THE EXCAVATION TO INSTALL/INSPECT THE UTILITY WORK. THE OWNER SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO EXISTING STRUCTURES AND UTILITIES CAUSED BY CONSTRUCTION ACTIVITY.
- 5. DC WATER RESPONSIBILITY: DC WATER IS RESPONSIBLE FOR INSTALLATION OF SMALL WATER SERVICE TAPS (2" DIAMETER AND LESS) TO THE PUBLIC MAIN, SMALL WATER SERVICE TAP REMOVALS FROM THE PUBLIC MAIN, FURNISHING & INSTALLING THE METER IN PUBLIC SPACE, AND INSPECTION OF WORK PERFORMED ON THE
- 6. MISS UTILITY: CONTACT MISS UTILITY AT 800-257-7777 48 HOURS BEFORE ANY DIGGING.
- PLAN SET: A SET OF SIGNED & SEALED AND DC WATER STAMPED PLANS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY.
- ABANDONMENTS: THE OWNER MUST PHYSICALLY DISCONNECT EXISTING WATER, SEWER, AND STORM LATERALS THAT ARE ARE TO BE ABANDONED AT THEIR CONNECTION TO THE PUBLIC MAIN.
- UNMETERED WATER: THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY'S WATER SYSTEM, INCLUDING CONNECTIONS BYPASSING METERS FOR TESTING ON-SITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER.
- 10. PRESSURE TESTING AGAINST VALVES: PRESSURE TESTING AGAINST VALVES WILL NOT BE ALLOWED.
- 11. WATER METER INSTALLATION: TO SCHEDULE THE INSTALLATION OF A DOMESTIC WATER-METER CONTACT PERMIT OPERATIONS AT 202-646-8600. DC WATER WILL FURNISH AND INSTALL THE METER AFTER THE CONNECTION TO THE MAIN HAS BEEN MADE AND THE METER PIT/VAULT HAS BEEN INSTALLED.
- CROSS CONTAMINATION CONTROL: ASSE 1048 CERTIFIED BACKFLOW PREVENTION ARE REQUIRED ON ALL FIRE SERVICES AND ARE TO BE LOCATED INSIDE THE BUILDING (UNLESS AN EXTERNAL LOCATION IS NECESSARY OR REQUIRED BY DE WATER) WHERE IT IS SUPPLIED, OWNED, OPERATED, AND MAINTAINED BY THE OWNER. DC WATER DOES NOT FURNISH NOR INSTALL FIRE DOUBLE CHECK DETECTOR FIRE PROTECTION BACKFLOW
- 13. UTILITY SERVICE DISRUPTIONS: PHASE ALL UTILITY WORK TO MAINTAIN UTILITY SERVICES TO THE SURROUNDING AREA DURING ALL PHASES OF CONSTRUCTION. LIMIT REQUIRED UTILITY SHUT-DOWNS IN NUMBER AND DURATION. COORDINATE THESE SHUT DOWNS WITH DC WATER CONSTRUCTION INSPECTION STAFF.
- 14. WATER VALVE OPERATION: THE CONTRACTOR IS REQUIRED TO COORDINATE WITH DC WATER FOR ALL NECESSARY WATER MAIN SHUT DOWNS WITH ADEQUATE ADVANCED NOTICE. ONLY DC WATER EMPLOYEES MAY SHUT DOWN A PUBLIC WATER MAIN. A CERTIFIED PLUMBER IS ONLY AUTHORIZED TO TURN OFF VALVES INSIDE
- 15. WATER GATE VALVE LOCATION: LOCATE GATE VALVES FOR DOMESTIC AND FIRE SERVICES AS CLOSE TO THE PUBLIC WATER MAIN TEE AS POSSIBLE. HOWEVER, IF NECESSARY ADJUSTMENTS ARE REQUIRED DUE TO CONFLICTS, COORDINATE WITH A DC WATER INSPECTOR.
- 16. MATERIAL: THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP CUTS TO THE APPROPRIATE DC WATER OFFICE FOR APPROVAL OR OBTAINING A DC WATER APPROVAL STAMP FOR ALL WORK IN PUBLIC SPACE IN ADVANCE OF INSTALLATION. ONLY APPROVED MATERIALS MAY BE USED.
- 17. TEMPORARY CONDITIONS MINIMUM COVER: A NOMINAL FOUR FEET OF COVER IS REQUIRED FOR ALL WATER MAINS AT FINAL GRADE. COVER OF LESS THAN FOUR FEET REQUIRES DC WATER APPROVAL.
- 18. AS-BUILT: DEVELOPERS, CONTRACTORS AND/OR PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO THE APPROPRIATE DC WATER INSPECTOR(S) FOR REVIEW AND APPROVAL, UPON COMPLETION OF INSTALLATION OF NEW SERVICES OR ABANDONMENT OF EXISTING SERVICES. WHEN THE FINAL AS-BUILT IS APPROVED THE DEPOSIT WILL BE RETURNED TO THE APPLICANT. SEE DC WATER AS-BUILT REQUIREMENTS FOR ADDITIONAL INFORMATION.
- 19. CONFLICTS: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITIES. A MINIMUM OF ONE FOOT VERTICAL AND FIVE FEET HORIZONTAL CLEARANCE FROM OTHER UTILITIES SHALL BE MAINTAINED FROM ANY UTILITIES AND PUBLIC WATER AND SEWER
- 20. FIRE HYDRANT USE: THE USE OF A FIRE HYDRANT AS A WATER SOURCE IS PROHIBITED UNLESS A PERMIT HAS BEEN OBTAINED FROM DC WATER FOR USE OF A SPECIFIC HYDRANT(S). DAILY OR EXTENDED USE PERMITS CAN BE OBTAINED FROM DC WATER PERMIT OPERATIONS DEPARTMENT 202-646-8600.
- 21. FIRE HYDRANT STATUS: THE CONTRACTOR SHALL NOTIFY FEMS AT 202-277-1889, PRIOR TO TAKING ANY FIRE HYDRANT OUT OF SERVICE OR RENDERING ANY HYDRANT INACCESSIBLE FOR ANY REASON. FEMS IS ALSO TO BE PROVIDED WITH THE LOCATION OF ANY NEW INSTALLATION OF PRIVATE FIRE HYDRANTS.
- 22. DC WATER SAFETY OFFICE: THE DC WATER SAFETY OFFICE CAN BE CONTACTED AT 202-787-4350.
- SEWER BACKWATER PREVENTION: THE PLUMBING SYSTEM MUST BE IN COMPLIANCE WITH SECTION 715 OF THE 2006 INTERNATIONAL PLUMBING CODE WHICH STATES A BACKWATER VALVE IS REQUIRED FOR ALL PLUMBING FIXTURES BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC









SANITARY SEWER TABULATION

IN = 81.22 (10" SAN FR 1208) IN = 81.22 (12" SAN FR 4098) OUT = 81.09 (12" SAN TO 4010)

TOP = 91.01IN = (8" SAN FR SOUTH) IN = (12" SAN FR 4326) OUT = (12" SAN TO 1008)

IN = 79.89 (12" SAN FR NORTH)

TOP = 88.981511 IN = 79.18 (15" SAN FR WEST) IN = 78.38 (12" SAN FR 15.33) OUT = 78.35 (15" SAN TO SOUTH)

1533 TOP = 89.62IN = 84.12 (8" SAN FR EAST) IN = 83.64 (8" SAN FR EAST) IN = 78.82 (12" IN FR 1335) OUT = 78.78 (12" SAN TO 1511)

1781 TOP = 89.39IN = 83.49 (8" SAN FR EAST) IN = 79.13 (8" SAN FR EAST) OUT = 78.34 (15" SAN TO SOUTH)

TOP = 88.951805 IN = 78.60 (15" SAN FR 4010) OUT = 78.53 (15" SAN TO SOUTH)

IN = 79.75 (12" SAN FR 1008) OUT = 79.70 (15" SAN TO 1805)

TOP = 92.244098 OUT = (12" SAN TO 1008)

> TOP = 92.26IN = 83.96 (8" SAN FR 4176) OUT = 83.86 (10" SAN TO EAST)

TOP = 92.18IN = 84.58 (8" SAN FR 4198) IN = 85.43 (8" SAN FR 4178) OUT = 84.49 (8" OUT TO 4141)

TOP = 92.204178 IN = 86.65 (8" SAN FR NORTH) IN = 86.65 (8" SAN FR EAST) OUT = 86.49 (8" SAN TO 4176)

TOP = 92.254198 IN = 86.48 (8" SAN FR NORTH) OUT = 86.17 (8" SAN TO 4176)

> IN = 87.07 (8" SAN FR NORTH) OUT = 86.14 (8" SAN TO 4326)

TOP = 90.85IN = 83.45 (8" SAN FR 4325) IN = 83.45 (8" SAN FR NORTH)

STORM SEWER TABULATION

1405 TOP = 91.43FULL OF DEBRIS

FULL OF DEBRIS

FULL OF DEBRIS

4327 TOP = 90.94

SURVEY NOTES

- 1. THE PROPERTY DELINEATED HEREON IS KNOWN FOR ASSESSMENT AND TAXATION PURPOSES AS LOT 66 IN SQUARE 399 AND IS ZONED C-2-A.
- 2. THE PROPERTY IS NOW IN THE NAME OF SCRIPTURE CHURCH OF CHRIST, INC., RECORDED IN INSTRUMENT NUMBER 25977, DATED JULY 2, 1979.
- BOUNDARY INFORMATION AS SHOWN HEREON WAS OBTAINED FROM OFFICIAL CITY RECORDS AND VERIFIED IN THE FIELD INSOFAR AS POSSIBLE. PROPERTY LINE DIMENSIONS FROM OFFICIAL RECORDS MAY NOT NECESSARILY AGREE WITH ACTUAL MEASURE DIMENSIONS. ALL PROPERTY LINES IN THE DISTRICT OF COLUMBIA ARE SUBJECT TO CHANGE BY THE OFFICE OF THE SURVEYOR, D.C.
- NORTH MERIDIAN INFORMATION AS SHOWN HEREON ARE BASED ON RECORD PLAT AS RECORDED IN SUBDIVISION BOOK 174 AT PAGE 41 IN THE OFFICE OF THE SURVEYOR OF THE DISTRICT OF COLUMBIA.
- 5. VERTICAL DATUM SHOWN HEREON IS BASED ON D.C. DATUM PER BENCHMARKS OBTAINED AT THE OFFICE OF THE SURVEYOR, D.C.
- 6. THE TOPOGRAPHIC FEATURES AS SHOWN HEREON WERE COMPILED FROM CONVENTIONAL SURVEY METHODS.
- THE SURVEYED PROPERTY AS SHOWN HEREON IS SUBJECT TO ALL COVENANTS AND RESTRICTIONS
 OF RECORD AND THOSE RECORDED HEREWITH. BOWMAN CONSULTING GROUP, LTD. WAS PROVIDED A COMMITMENT FOR TITLE INSURANCE FROM FIDELITY NATIONAL TITLE INSURANCE COMPANY, AND SCHEDULE B- PART II IS ADDRESSED IN THE TITLE COMMITMENT REVIEW.
- 8. THE PROPERTY SHOWN HEREON LIES IN ZONE "X" (UN-SHADED)(AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP FOR DISTRICT OF COLUMBIA, WASHINGTON, D.C., COMMUNITY-PANEL NUMBER 1100010017C, MAP REVISED SEPTEMBER 27, 2010.
- THE LOCATION OF THE WATERLINES SHOWN ON THIS SURVEY WERE TAKEN FROM THE EXISTING WATER MAPS FROM DC WATER

TREE TABLE

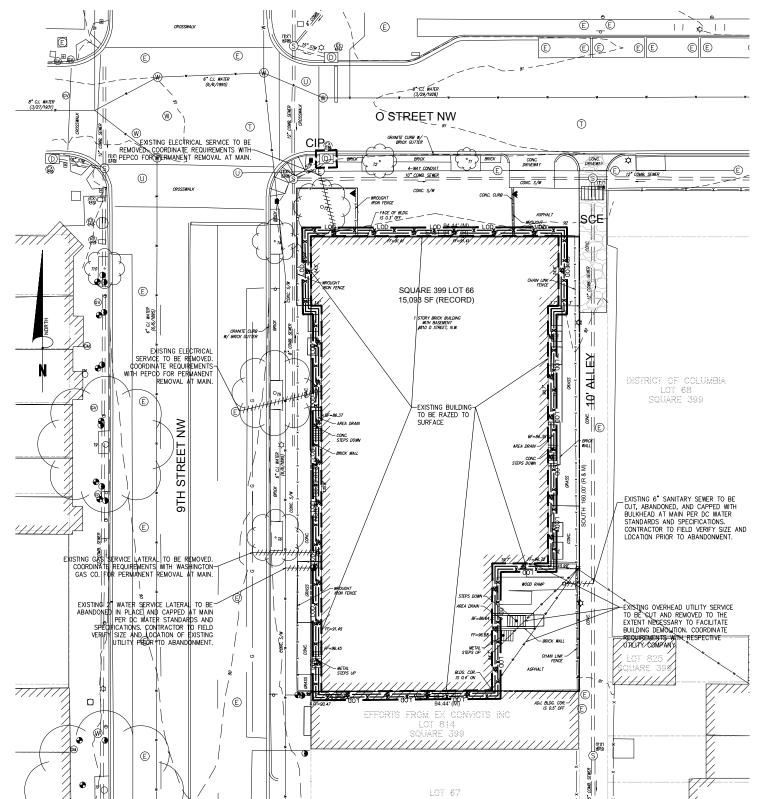
- T1 6" BROAD LEAF
- T2 6" BROAD LEAF T3 13" BROAD LEAF
- T4 6" BROAD LEAF
- T5 14" OAK T6 7" OAK
- T7 28" OAK
- T8 5" (WILLOW OAK) OAK T9 24" OAK T10 5" (WILLOW OAK) OAK

OUT = 83.85 (8" SAN TO 1208)

1421 TOP = 90.87

1422

TOP = 90.88 FULL OF DEBRIS 1426



RAZE CONTROL NARRATIVE:

INSTALL SEDIMENT AND EROSION CONTROL SILT FENCE AROUND BUILDING. LOADING OF DEBRIS WILL TAKE PLACE IN ADJACENT PARKING LOT EAST OF THE EXISTING BUILDING. EXPOSED AREA TO BE COVERED WITH BRICKBAT AFTER REFOR GROUND COVER ONCE BUILDING SLAB HAS BEEN REMOVED. CONTROLS TO BE INSTALLED PRIOR TO COMMENCEMENT OF DEMOLITION AND REMOVED AFTER STABILIZATION.

CONTACT DC DEPT. OF ENVIRONMENT, WATERSHED PROTECTION DIVISION AT 202-535-2240 TO SCHEDULE PRE-CONSTRUCTION MEETING.

RAZE SEQUENCE:

1. CONTACT DC-WATERSHED PROTECTION DIVISION AT 202-535-2240 TO SCHEDULE PRE-CONSTRUCTION MEETING PRIOR TO MOBILIZATION.

- 2. INSTALL SILT FENCE AROUND PERIMETER OF PROPOSED WORK AS INDICATED.
- 3. INSTALL INLET PROTECTION AS INDICATED.
- 4. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
- 5. KNOCK DOWN ONE EXISTING BUILDING.
- 6. REMOVE DEBRIS FROM SITE BY TRUCK.
- 7. STABILIZE ALL DISTURBED AREAS WITH SEED AND STRAW AS TEMPORARY GROUND COVER.

NOTES:

- EXISTING UTILITIES ON THE EXISTING BUILDING THAT ARE NOT SHOWN ON THIS PLAN TO BE REMOVED AT THE MAIN IF NOT REQUIRED FOR FUTURE SERVICE. COORDINATE REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANY PRIOR TO REMOVAL.
- 2. EXISTING WATER SERVICE LATERAL, VALVES, AND TEES NOT SHOWN ON PLAN TO BE REMOVED AND CAPPED AT MAIN PER DC WATER STANDARDS AND SPECIFICATIONS.
- 3. EXISTING SEWER SERVICE LATERAL AND RELATED APPURTENANCES NOT SHOWN ON THIS PLAN TO BE REMOVED WITH BULKHEAD AT MAIN PER DC WATER STANDARDS AND SPECIFICATIONS.

TOTAL AREAS:

SITE AREA: 15,093 SF OR 0.35 AC.

AREA OF DISTURBANCE: 13,591 SF OR 0.31 AC. (FOR RAZE ONLY)

VOLUME OF BUILDING TO BE REMOVED: 13,413 CUBIC YARDS (12,072 SF BLDG FOOTPRINT TO BE REMOVED)

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.

2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL. 3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.

4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.

- 5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
- A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE; B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
- C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
- B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

LEGEND

STABILIZED
CONSTRUCTION
ENTRANCE

WASH RACK

INLET
PROTECTION

SILT FENCE

SAFETY
FENCE

SAFETY
FENCE

SAFETY
FENCE

LIMITS OF
DISTURBANCE

EXISTING UTILITY LINE TO
BE ABANDONED IN PLACE

EXCAVATE AND REMOVE
EXISTING UTILITY LINE

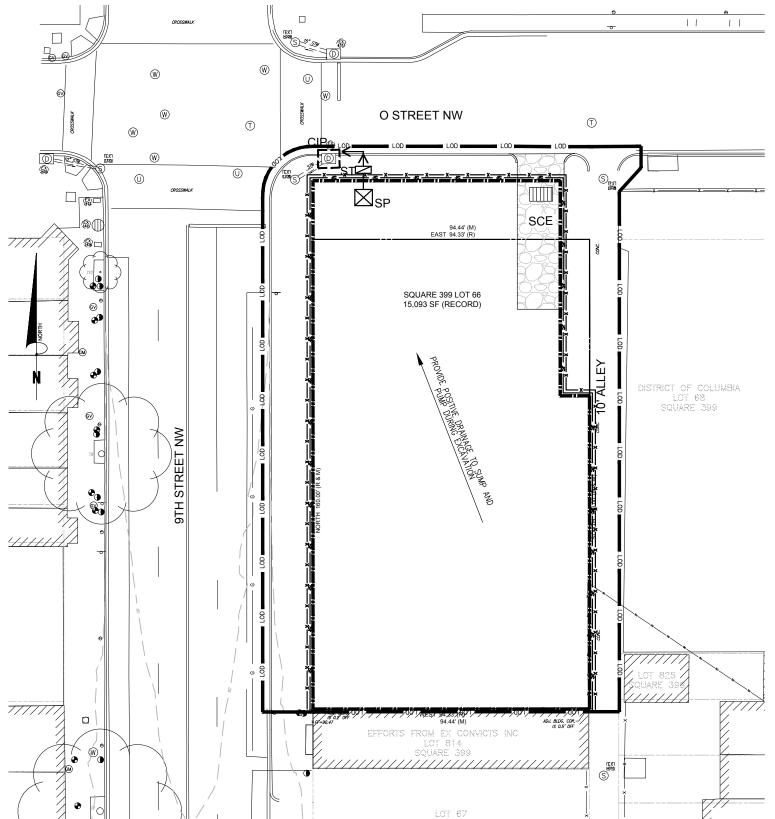
EXCAVATE AND REMOVE
EXISTING UTILITY LINE

EXCAVATE AND REMOVE
EXISTING UTILITY LINE

SOFT OF THE PROPERTY OF THE PROPE

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SEDIMENT AND EROSION CONTROL NARRATIVE:

INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING SILT FENCE, INLET PROTECTION, TREE PROTECTION, AND STABILIZED CONSTRUCTION ENTRANCE AT SITE. FOLLOWING DISCONNECTION OF UTILITIES, SULLDING TO BE RAZED TO THE SUFFACE USING DISTRICT APPROVED DEMOLITION METHODS. REMOVE OTHER SITE FEATURES AND ROUGH GRADE SITE. CONTACT DC DOEE, WATERSHED PROTECTION DIVISION AT 202-535-2250 TO SCHEDULE PRE-CONSTRUCTION MEETING. SHOULD MEASURES SHOWN ON THE PLAN NOT BE NEEDED UPON SITE STABILIZATION, CONTRACTOR TO REMOVE WITH PERMISSION OF DOEE INSPECTOR.

SEDIMENT AND EROSION CONTROL NOTE:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO FINSING THEIR SUPPORT.
- PROVIDE SILT FENCE AT THE PERIMETER OF DISTURBED AREA OR EXCAVATION TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR OTHERWISE APPROVED BY THE INSPECTOR.
- PROVIDE CONSTRUCTION FENCE AT THE PERIMETER OF DISTURBED AREA OR EXCAVATION TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR OTHERWISE APPROVED BY THE INSPECTOR.
- . CONTRACTOR TO MAINTAIN ON-SITE STAMPED AND SIGNED, SEDIMENT AND EROSION CONTROL DRAWINGS APPROVED BY THE DEPARTMENT OF THE ENVIRONMENT, WATERSHED PROTECTION DIVISION.
- 5. THE APPLICATION MUST NOTIFY THE DEPARTMENT OF THE ENVIRONMENT BY PHONE (202-535-2250) AT LEAST 24 HOURS PRIOR TO START OF GRADING ACTIVITY AND WITHIN TWO (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF THE ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.

CONSTRUCTION DATES:

- . THE PROPOSED WORK DUE TO COMMENCE IN THE FALL OF 2016 AND IS ANTICIPATED TO TAKE APPROXIMATELY 12 MONTHS.
- . EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

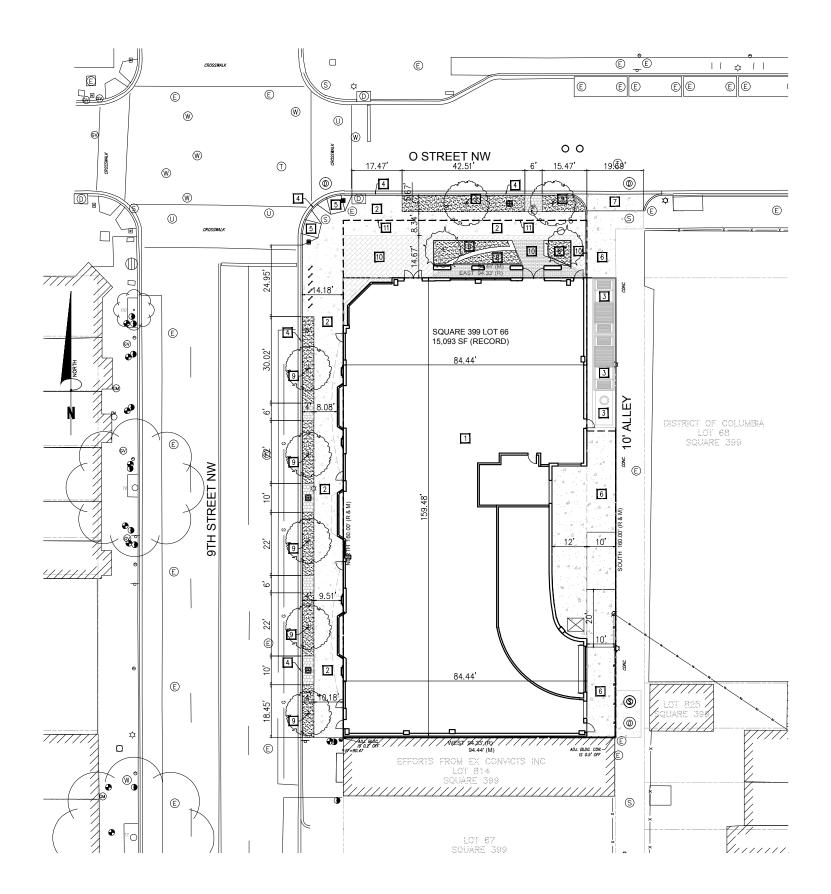
CONSTRUCTION AND STABILIZATION SEQUENCE:

- CONTACT DC WATERSHED PROTECTION DIVISION AT 202-535-1364 TO SCHEDULE THE PRE-CONSTRUCTION
 MEETING PRIOR TO MOBILIZATION.
- REMOVE RETAINING WALL TO THE SOUTH OF THE SITE USING TEMPORARY MEASURES TO STABILIZE LIMITED SITE WORK.
- SEDIMENT TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED NO LATER THAN THE FIRST PHASE OF LAND GRADING.
- SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
- SEDIMENT TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AS SOON AS NEW SITE—RELATED RUNOFF IS DETECTED AND EMPLOYED AT ALL TIMES TO PROTECT INLETS OR STORM SEWERS BELOW SILT—PRODUCING AREAS.
- IMMEDIATELY AFTER DEBRIS BASINS, DIVERSIONS, WATERWAYS, AND RELATED STRUCTURES ARE BUILT, SEED AND MULCH, OR INSTALL SOD AND STABILIZATION BLANKET.
- 7. NO LATER THAN THE FIRST DAY OF CONSTRUCTION INSTALL SITE ACCESS MEASURES TO MINIMIZE OFF—SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURE REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATERWAYS.
- 8. REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DDOE INSPECTOR.
- 9. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS.
- 10. DISCONNECT UTILITIES AND RAZE BUILDING TO SURFACE.
- I1. AT THE COMPLETION OF THIS PHASE OF CONSTRUCTION, FOLLOWING SITE STABILIZATION AND UPON INSPECTOR'S APPROVAL, TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES CAN BE REMOVED.

LEGEND

SUMP PIT

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SITE KEYNOTES

■ NEW BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

2 NEW PRESSED CONCRETE PAVER SIDEWALK. SEE DDOT STANDARD DETAILS 605.01 AND 605.02 ON SHEET CIV0530 FOR DETAILS.

3 NEW ELECTRICAL VAULTS. COORDINATE REQUIREMENTS WITH PEPCO.

4 NEW GRANITE CURB AND CONCRETE GUTTER. SEE DDOT STANDARD DETAILS 606.01 AND 606.02 ON SHEET CIV0530 FOR DETAILS

3 NEW ADA RAMP. SEE DDOT STANDARD DETAILS 606.05 AND 606.08 ON SHEET CIVO530 FOR DETAILS.

6 NEW CONCRETE ALLEY. SEE DDOT STANDARD DETAIL 503.01 ON SHEET CIV0530 FOR DETAILS.

7 NEW CONCRETE DRIVEWAY ENTRANCE TO MATCH EXISTING. SEE DOOT STANDARD DETAIL 504.01 FOR DETAILS.

1 NEW LANDSCAPED AREA. SEE LANDSCAPE DRAWINGS FOR DETAILS.

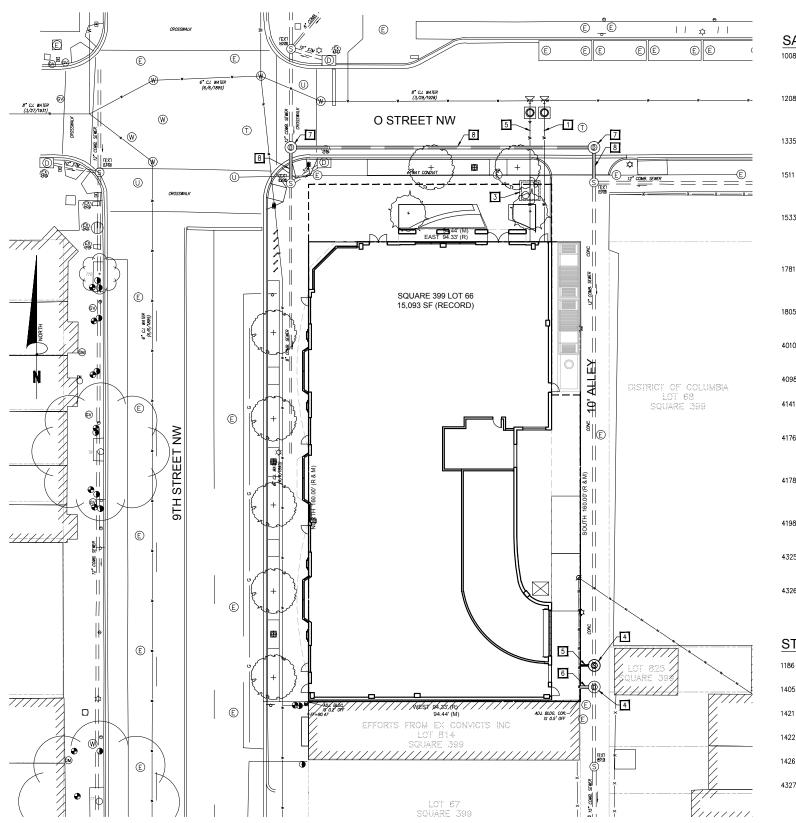
NEW STREET TREE. SEE LANDSCAPE DRAWINGS FOR DETAILS.

10 NEW BRICK PAVERS. SEE LANDSCAPE DRAWINGS FOR DETAILS.

III LIMIT OF UNDERGROUND BUILDING PROJECTION. SEE ARCH PLANS FOR DETAIL.







SANITARY SEWER TABULATION

TOP = 91.52IN = 81.22 (10" SAN FR 1208) IN = 81.22 (12" SAN FR 4098) OUT = 81.09 (12" SAN TO 4010)

TOP = 91.011208 IN = (8" SAN FR SOUTH) IN = (12" SAN FR 4326)OUT = (12" SAN TO 1008)

TOP = 90.691335 IN = 79.89 (12" SAN FR NORTH) OUT = 79.80 (12" SAN TO 1533)

IN = 79.18 (15" SAN FR WEST) IN = 78.38 (12" SAN FR 1533) OUT = 78.35 (15" SAN TO SOUTH)

1533 TOP = 89.62IN = 84.12 (8" SAN FR EAST) IN = 83.64 (8" SAN FR EAST) IN = 78.82 (12" IN FR 1335) OUT = 78.78 (12" SAN TO 1511)

TOP = 89.39IN = 83.49 (8" SAN FR EAST) IN = 79.13 (8" SAN FR EAST) OUT = 78.34 (15" SAN TO SOUTH)

IN = 78.60 (15" SAN FR 4010) OUT = 78.53 (15" SAN TO SOUTH)

TOP = 90.55IN = 79.75 (12" SAN FR 1008) OUT = 79.70 (15" SAN TO 1805)

4098 TOP = 92.24OUT = (12" SAN TO 1008)

TOP = 92.26IN = 83.96 (8" SAN FR 4176) OUT = 83.86 (10" SAN TO EAST)

TOP = 92.18IN = 84.58 (8" SAN FR 4198) IN = 85.43 (8" SAN FR 4178) OUT = 84.49 (8" OUT TO 4141)

TOP = 92.20IN = 86.65 (8" SAN FR NORTH) IN = 86.65 (8" SAN FR EAST) OUT = 86.49 (8" SAN TO 4176)

IN = 86.48 (8" SAN FR NORTH) OUT = 86.17 (8" SAN TO 4176)

TOP = 91.024325 IN = 87.07 (8" SAN FR NORTH) OUT = 86.14 (8" SAN TO 4326)

TOP = 90.85IN = 83.45 (8" SAN FR 4325) IN = 83.45 (8" SAN FR NORTH) OUT = 83.85 (8" SAN TO 1208)

STORM SEWER TABULATION

TOP = 90.98FULL OF DEBRIS

1405 TOP = 91.43FULL OF DEBRIS

FULL OF DEBRIS

TOP = 91.04 FULL OF DEBRIS

TOP = 90.88 FULL OF DEBRIS 1426

4327 TOP = 90.94 FULL OF DEBRIS

UTILITY KEYNOTES

1 NEW 6" DIP FIRE SERVICE.

2 NEW 4" DIP DOMESTIC SERVICE.

3 NEW 4" WATER METER.

4 NEW DOGHOUSE MANHOLE.

5 NEW 8" PVC SANITARY LINE.

6 NEW 12" PVC STORM LINE.

7 NEW MANHOLE

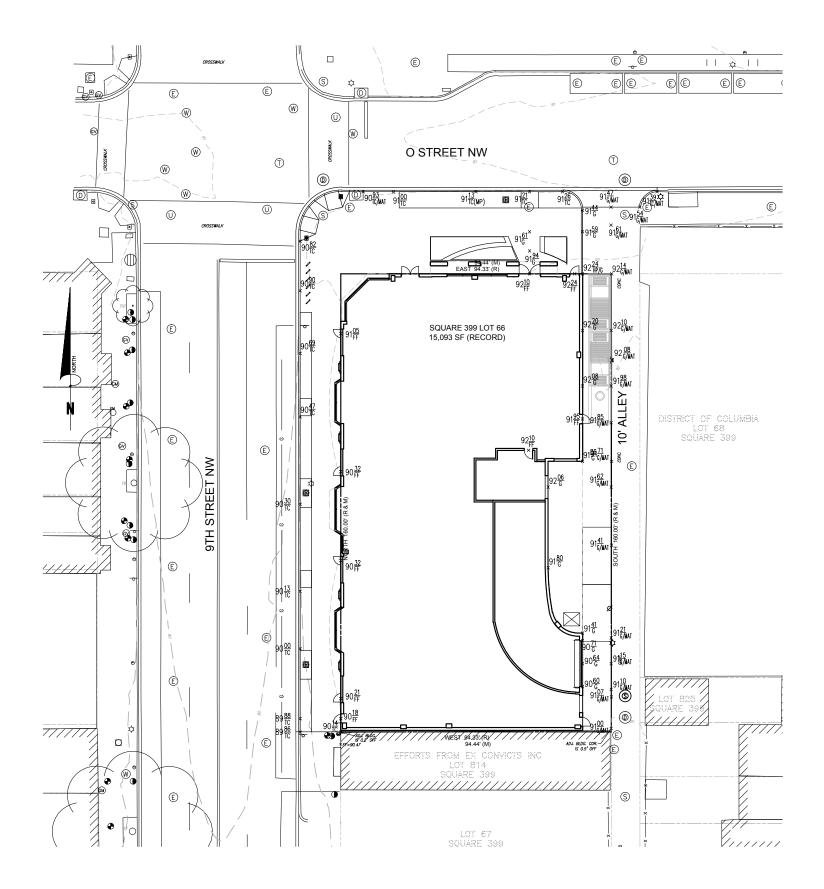
8 NEW 12" RCP COMBINED SEWER

WATER AND SEWER DEMAND

260 GPD PER UNIT X 59 UNITS = 15,340 GPD 0.20 GPD PER SF X 6,294 SF RETAIL = 1,260 GPD TOTAL = 16,600 GPD

SEWER: 16,600 GPD = 0.026 CFS

UTILITY PLAN



SPOT GRADING LEGEND

 $XX_{FF}^{XX} \times$ finished floor spot

 $XX\frac{XX}{G} \times \text{ GROUND SPOT}$

 $XX\frac{XX}{TC} \times$ TOP OF CURB SPOT

 $XX\frac{XX}{BC} \times$ bottom of curb spot

 $XX\frac{XX}{TW} \times$ TOP OF WALL SPOT

 $XX_{\overline{BW}}^{\underline{XX}}$ bottom of wall spot

 $XX\frac{XX}{TS} \times$ TOP OF STEPS SPOT

 $XX\frac{XX}{BS} \times$ bottom of steps spot

 $X\frac{XX}{MAT}$ × MATCH EXISTING SPOT



STANDARDS AND SPECIFICATIONS FOR

DUST CONTROL

2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.

3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.

4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERGOS ON-SITE. THESE CONTROL MEASURES MIL CENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY MEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.

A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE.

B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.

C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8kPg), MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.

6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:

A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.

B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.

C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.

DISTRICT OF COLUMBIA STANDARD SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF AN EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL BERSION AND SEQUENT CONTROL FOR THE DESTINCT OF COLUMBAL, IF AN ON-STEE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY THE SAME SHALL BE PROVIDED.

2. ALL DEBRIS TO BE REMOVED FROM SITE.

3. ALLEY AND/OR STREETS SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.

4. ALL CATCH BASINS AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.

5. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS CLEANING.

6. WHEN A SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 6776 CAPACITY, CLEAN OUT OF SAME IS REQUIRED.

7. ANY STOCKPILING, REGARDLESS OF LOCATION ON THE SITE, SHALL BE STABILIZED WITHIN 20 DAYS AFTER IS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.

37.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING

DEFINITION: RESHAPING OF THE EXISTING LAND SURFACE IN ACCORDANCE WITH A PLAN AS DETERMINED BY ENGINEERING SURVEY AND LAYOUT.

2 CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASSES SHALL NOT BE STEEPER THAN 2:1. (WHERE THE SLOPE IS TO BE WOWED THE SLOPE SHOULD BE STEEPER THAN 3:1, 4:1 PREFEREND BEQUISE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES) SLOPES EXCEEDING 2:1 SHALL REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATIONS THAT SHALL BE ADDICATED THAN ON THE PLANS.

3. REVERSE BENCHES SHALL BE PROVIDED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 21 SLOPE EXCEEDS 30 FEET: FOR 3.1 SLOPE IS SHALL BE INCREASED TO 30 FEET AND FOR 4.1 TO 46 FEET, BENCHES SHALL BE LOCATED TO JOINDE THE SLOPE FLOCE AS EQUALLY AS POSSBIE AND SHALL CONNEY THE WATER TO A STABLE QUITET, SOLS, SEEPS, ROCK OUTCROPS, ETC., SHALL ALSO BE TAKEN INTO CONSIDERATION WHEN DESGINAND BENCHES.

4. SURFACE WATER SHALL BE DIVERTED FROM THE FACE OF ALL CUT AND/OR FILL SLOPES BY THE USE OF EATH DICES, DIVINES, AND SWALES OR CONVEYED DOWNSLOPE BY THE USE OF A DESIGNOD STRUCTURE, EXCEPT WHERE:

A. THE FACE OF THE SLOPE IS OR SHALL BE STABILIZED AND THE FACE OF ALL GRADED SLOPES SHALL BE PROTECTED FROM SURFACE RUNOFF UNTIL THEY ARE STABILIZED.

37.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING CONT.

8. FILL MATERIAL SHALL BE FREE OF SNOW, ICE, FROZEN MATERIALS, TRASH, BRICK, CLAY LUMPS, HAZARDOUS MATERIAL, BROKEN CONCRETE, THEE ROOTS, SOO, ASHES, ONDERS, GLASS, PLASTER, GRONNIC MATERIER, BRUSH, LOSS, STAMPS, BULDING DEBRS, AND ANY OTHER FORCIEN MATERIAL IT SHOULD BE FREE OF STONES OVER 2 INCHES IN DIAMETER MERCE COMPACTED BY HAND OR MECHANICAL TRAPERS OF OVER S INCHES IN DUAMETER WHERE COMPACTED BY ROLLERS OF OTHER EQUIPMENT. FROZEN MATERIAL SHALL BE PLACED IN THE FILL MATERIAL SEC PLACED IN THORSE HOUSE TO STONE THE PLACED ON A FROZEN FORCIENT OF THE PLACED ON A FROZEN FORCIENT OF THE PLACED IN THE FILL MATERIAL SEC PLACED I

9. STOCKPILES, BORROW AREAS, AND SPOIL SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTIME CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

IL FOR THE PURPOSE OF THESE STANDARDS AND PEOFICIATIONS, AREAS HAVING SLOPES STEEPER THAW 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

II. TOPSOL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF THE TOPSOL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED IN THE NRCS DISTRICT OF COLUMBIAS SOIL SURVEY

A. TOPSOIL SPECIFICATIONS — SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: A TOPSOIL SHALL BE A LOAM, SANDY CLAY LOAM, SLOW, CLAY LOAM, SANDY CLAY LOAM, LOAMY SAND, CHART SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCOTHIST AND APPROVED BY THE WATERSHED PROTECTION DIVISION. RECARDLESS, TOPSOIL SHALL NOT BE A MAYITIER OF CONTRASTING TEXTURED SUBSOIL AND SHALL CONTINE LESS THAM'S MY YOULIME OF CINDERS, STONES, SLANC, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARRER THAM I 1/2 MOKES IN DIMMENTS.

C. WHERE SUBSDIL IS ETHER HIGHLY ACIDIC OR COMPOSED HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-4-00 LBS/1,00 S) PROBE TO THE PLACEMENT OF 10-FOSCIL LIME SHALL BE DISTRIBUTED UNHFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED WITHE FOLLOWING PROCEDURES.

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 42.0 VEGETATIVE STABILIZATION – SECTION I – VEGETATIVE STABILIZATION METHOD AND MATERIALS. IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

A ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

I. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.

III.TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

IV. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERLILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MINMUM) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

I. WHEN TOPSORING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRANS AND ASSINS.

II. GRADES N THE AREAS TO BE TOPSOIED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED, ALBEIT 4–8' HIGHER N ELEVATION.

II.TOPSOIL SHALL BE UNFORMLY DISTRIBUTED IN A 4—8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPEEADING SHALL BE PERFORMED IN SUCH A MAINER THAT SCODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND ILLAGE. AN IRREGULARTIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OF WATER POCKED.

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONT.

VI. ALTERNATIVE FOR PERMANENT SEEDING —INSTEAD OF APPLYING THE FULL AMOUNTS OF LINE AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

REQUIREMENTS.

1. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS

1. THAT ARE PERMITTED (AT THE TIME OF ACQUISTION OF THE COMPOST) BY EITHER THE

STATE OF MARYLAND OR THE STATE OF VIRGINA.

III. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,98U SF.

42.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS A SITE PREPARATION I. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS. OR SEDIMENT CONTROL BASINS.

II. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE FINAL GRADING AND SHAPING NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.

B. SOIL AMENDMENTS (FERITLIZER AND LIME SPECIFICATIONS)

I. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIONS AND APPLICATION RATES FOR BOTH LINE AND FERTILIZER ON STES HAWNE DISTURBED AREAS OVER 5 ACRES. OUR ANALYSS MAY BE PERFORMED BY THE UNIVERSITY OF THE DISTURCT OF COLUMBIA OR A CERTIFIED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR OFMERCIAL MALYSES.

IL FERRILIZERS SHALL BE UNFORM IN COMPOSITION, FREE FLOWING AND SMITABLE FOR ACCURATE APPLICATION AND APPROVED EOUPMENT, MANURE MAY BE SUBSTITUTED FOR FERRILIZER SHALL ALL BE DELIVEDED TO THE STEP FORDYLL AUTHORITY FOR THE TRITIZER'S SHALL ALL BE DELIVEDED TO THE STEP FOLLY LABELD ACCORDING TO THE APPLICABLE STATE FERRILIZED SLAWS AND SHALL BEAR THE NAME OR TRADEMARY, AND MARGANITEE OF THE PRODUCE.

III. LIME MATERALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL U(IDES (CALCIUM DXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND 94 SUCH RINENESS THAT AT LEAST 60% MILL PASS THROUGH #100 MESH SEVE AND 98-100% WILL PASS THROUGH #20 SEVE. V. 9JCORPORATE LIME AND FERTILIZER INTO THE TOP $3-5^{\circ}$ OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

C. SEEDBED PREPARATION

A. SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3' TO 5' BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON THE CONSTRUCTION EQUIPMENT, AFTER THE SOIL IS LOOSENED. IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT DI THE ROUGHENED CONDITION. SLOPED AREAS (OREATER 3'1) SHOULD BE TRACKED LEAVING THE SURFACE DI AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

C. INCORPORATE LINE AND FERTILIZER INTO THE TOP 3-5' OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

II. PERMANENT SEEDING

A. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT:

1. SOIL PH SHALL BE BETWEEN 6.9 AND 7.0 2. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM).

3. THE SOIL SHALL CONTAIN LESS THAN 49% CLAY BUT ENOUGH FINE GRAINED MATERIAL (>3.05 SLIT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MONSTURE AN EXCEPTION IS FL LOWERASS OR SPECIAL LESPECIZA IS TO BE PLANTED, THAN A SANDY SOIL (13.0% SLIT PLUS CLAY) WOULD BE ACCEPTABLE

4. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT. 4. SOLE MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. 6
ff THESE CONDITIONS CANNOT BE MET BY SOLIS ON—SITE, ADDING TOPSOIL IS REQUIRED W
ACCORDANCE WITH SECTION 38, STANDARD AND SPECIFICATION FOR TOPSOIL

B. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scaped or otherwise loosened to a depth of 3-5' to permit booking of the 105501 to a superola area and to goath depth of 3-5' eroson check slots to prevent topsoul from sliding down a slope

C. APPLY SOL AMONMENTS AS PER SOL TEST OR AS INCLUDED ON THE PLANS. D. MIX SOL AMENDMENTS IN THE TOP 3-5 OF TOPSOL BY DEVIAND ON THE PLANS. D. MIX SOL AMENDMENTS IN TO THE TOP 3-5 OF TOPSOL BY DEVIAND ON OTHER SUTTABLE MEANS. STOKES AND REMAYDES, AND REMOVE THE AREA FOR SEED APPLICATION. WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, LOOSEN THE SURFACE SOLE BY DRACKOR WITH A HEAVY CHANGE OF THE SURFACE STEP.

I. ALL SEED MUST MEET THE REQUIREMENTS OF THE DISTRICT OF COLUMBIA DPW STANDARD AND SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES AND SPECIFICATION 42.0 VEGETATIVE STABILIZATION. ALL SEED USED SHALL HAVE BEEN TESTED WITH THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THIS JOB.

NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.

OF SEED USED.

II. NOOULANT — THE NOCULANT FOR TREATING LEGUME SEED 94 THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROCEN-PIXING BACTERIA PREPARED SPECENCALLY FOR THE SPECVES. INCOLANTS SHALL NO THE USED LATER THAN THE DATE INDICATED ON THE CONTAINER, ADD FRESH MOCULANT AS DIRECTED ON THE ACKAGE, USE FOUR THISES THE RECOMMENDED RATE WITH HYDROSEDIMS. NOTE: IT IS VERY MOFOXIATION RESPONDED AS OLD AS POSSIBLE UNITL. USED. TEMPETATURES ABOVE 75-B9F CAN MEAREN BACTERIA AND MAKE THE MOCULANT LESS PETERUME.

I. HYDROSEEDING:

A, IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATIONS RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING NITROCENE MAXIMUM OF 100 LEIS PER AGRE TOTAL OF SOLUBLE NITROCEN: P205 (PHOSPHOROUS): 20BLBS/AC; K20 (POTASSIUM): 200 LBS/AC.

B. LIME – USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY: NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME DO NOT USE BURNT OR HYDRAFIED LIME WHEN HYDROSEEDING.

C. SEED AND FERTILIZER SHALL BE MIXED ON—SITE AND SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

ID. DRY SEDION. THIS NOLLOSE SEG. OCCUMENTAL DROP OR RODACAST SPREADERS.

A. SEE SPREAD DRY SHALL SE INCORPORATIO INTO THE SUBSOIL AT THE RATES PRESCRIBED

ON THE TRANSPARY OR PERMANNET SEMAN SHAWRIST OR TRADES 42, OR 43, THE SEA

AREA SHALL THEN BE ROLLED WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL

CONTACT.

B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

III. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

A. CULTPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IS SUCH A SFASHION AS TO PROVIDE AT LEAST 1—INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING. B. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DI

F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)

I. STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE, OR OAT STRAW, REASONABLY BOBILT WO COLOR, AND SHALL NOT BE MUSTY, WOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED BY THE NRCS SEED LAKE.

NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

A. WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

B. WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

C. WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. D. WOTH MATERIAS SHALL BE WANNETCHIED AND PROCESSED IN SUCH A MAINER THAT THE WOOD CELLULOSE FIBER WILCH MILL REMAIN 34 UNIFORM SUSPENSION 34 MATER UNDER AGITATION AND MILL BLENCH WITH SY, FERTILIERS AND OTHER ADDITIVES TO FORM A HOROGENEOUS SURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROWN COVER, ON APPLICATION, HAVING MOSTINGE ASSORPTION, MOST PRECOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED W CONTACT WITH THE SOLL WITHOUT INHIBITING THE GROWNHOT FILE GROWNHOOT THE GRASS SEEDINGS.

E. WCFM MATERIAL SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.

F. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS FIBER LENGTH APPROXIMATELY 6 MM., DIAMETER APPROXIMATELY 1 MM., PH RANGE OF 4.6 TO &5, ASH CONTENT OF 1.6% MAXIMUM, AND WATER HOLDING CAPACITY OF 981E MINIMUM.

I. IF GRADING IS COMPLETED DUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESORBED IN THIS SECTION AND MAINTAINED UNIT. THE SIGNIG SEASON RETURNS AND SEEDING CAN BE PERFORMED ACCORDANCE WITH THESE SPECIFICATIONS. IN WHEN STRAW MUCH IS USED. IT SHALL BE SPECED OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MUCH SHALL BE APPLIED TO A LINFORM LOOSE DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. FA MULCH ANCHORING TOOL IS TO BE USED, THE RATE SHOULD BE INCREASED TO 25 TONS/ACRE.

H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINDAYZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING ON THE SIZE OF AREA AND EROSON HAZARD:

II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER SHALL BE APPLIED AT A NEW DRY MIGHT OF 750 UBS/ACRE THE WOOD CELLULOSE FIBER SHALL BE MORED WITH WATER AND MIXTURE SHALL CONTAIN A MAXMUM OF 50 LBS OF WOOD CELLULOSE FIBER PER 100 CALLONS OF WATER.

LELLOUDE, FIRST PEN TOU GALLONS OF WATER.

III. APPLICATION OF LIQUID BINDERS SHOULD BE HEAVER AT THE EDGES WHERE WIND CATCHES MUCH, SUCH AS IN VALLET'S AND ON ORESTS OF BANKS. THE REMANDER OF AREA SHOULD APPEAR UNFORM AFTER BIDBER APPLICATION, SYNTHETIC BINDERS — SUCH AS ARRYLLO DI I, GROG-TACK), DOA-79, ERROSET, TERRA TAX, I TERRA TAXCAR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ARCHOTO MUCH.

IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

SECTION II - TEMPORARY SEEDING VEGETATION — ANNUAL GRASS OR GRAIN USED TO PROVIDE COVER ON DISTURBED AREAS FOR UP TO 12 MONTHS. FOR LONGER DURATION OF VEGETATIVE COVER, PERMANENT SING IS

	D MIXTURE (HA M TABLE 43	RDINESS ZONE	7A)		FERTILIZER RATE	LIME RATE
NO.	SPECIES	APPLICATION	SEEDING	SEEDING	(10-10-10)	
		RATE (lb/ac)	DATES	DEPTHS	(
	RYE PLUS FOXTAIL MILLET	150	2/1-4/30 5/1-8/30 8/15-11/30	1	600 lb/ac (14 lb/1000 sf)	2 tons/ac
	WEEPING LOVEGRASS	4	5/1-8/14	1/4		2 tons/ac (92 lb/1000sf)

SECTION III - PERMANENT SEEDING

SEEDING GRASS AND LEGUMES TO ESTABLISH GROUND COVER FOR A MINIMUM PERIOD OF ONE YEAR ON DISTURBED AREAS GENERALLY RECEIVING LOW MAINTENANCE.

SEED MIXTURE (HARDINESS ZONE 7A) FROM TABLE 42			FERTILIZER RATE (10-20-20)		LIME RA			
NO.	SPECIES	APPLICATION	SEEDING	SEEDING				
		RATE (lb/ac)	DATES	DEPTHS	N	P205	K20	
	TALL FESCUE (85%)	125			90 lb/ac	175 lb/ac	175 lb/ac	2 tons/
	Perennal Ryegrass (10%)	15	3/1-5/15	1/4" MIN.	(2.0 lb/ 1000 sf)	(4 lb/ 1000 sf)	(4 lb/ 1000 sf)	(92 lb/ 1000 sf)
	Kentucky Bluegrass (5%)	10	8/15-11/15	2" MIN.				

42.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION CONT.

I. CLASS OF TURFGRASS SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED OR APPROVED. SOD LABELS SHALL BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

IL SOO SHALL BE MACHINE CUT AT A UNIFORM SOO. THICKNESS OF -", PLUS OR MINUS 1/4 AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH, INDIVIDUAL PIECES OF SOO SHALL BE CUT TO THE SUPPLIESS WIDTH AND LENGTH, MAXIMUM ALLOWABLE DEVAITON, FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5X BROKEN PAUS AND TOWN OF UNEVER MEDS WILL NOT BE ACCEPTABLE.

III. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER TO'N OF THEIR SECTION.

APEAS WHERE TURFORASS MAY BE DESIRED INCLIDE LAWIS, PARKS, PLAYCROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENINGS AREAS TO RECEIVE SEED SHALL BE TUBE OF 1905MOV OR OTHER APPROVED METHODS TO A DEPID OF 2 TO 4 INCHES, LEVULED AND RAKED TO PREPARE A PROPER SEDBED. STONES AND DEBRIS OWER 1 A INCHES IN DIAMETER SHALL BE REMOVED. THE RESULTING SEDBED SHALL BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.

NOTE CHOOSE CERTIFIED MATERIAL CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY.

I. Kentucky Bluegrass – full sun mixture – for use in areas that receive intensive management, recommended certified Kentucky Bluegrass Cultivars seeding art 1.5 to 2.0 185/1400 S. 4. a minimum of 9. Bluegrass Cultivars should be chosen ranging from a minimum of 10x to a maximum of 35x of the mixture weight.

IL KENTUCKY BUIGONSS/PEBENINA, PYE — FULL SUN MIKTURE — FOR USE IN FULL SUN MERCH WHERE BAPID ISTAILSUNKENT IS NEIDSSAY AND WHEN THEY WILL RECEIVE WANN TO INTENDE MANAGEMENT CERTHED PERENNAL, RYGENSS CULTIVARS/CERTHED KENTUCK BULGEARSS SEEDING RATE 2 LISE MUTUREF, MIS F.A. MANINUM OF 3 BULGEARSS CULTIVARS SHOULD BE CHOSEN RANGING FROM A MINIMUM OF 10X TO A MAXMUM OF 35X OF THE MUTURE WEIGHT.

III. TALL FESCUE/KENTUCKY BLUEGRASS — FULL SUN MIXTURE — FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVED LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE RECOMMENDED MIXTURE INCLUDES, CERTIFIED TALL FESCUE CULTIVARS 98—100X, CERTIFIED TALL TRUE CULTIVARS SUN SEEDING RATE 5 TO 8 LISS/1,000 57. ONC ON MORE CULTIVARS MAY BE BEDNIED.

IV. KEUTLOCY DILLEGORS, FINE ESCOLE. SHAPE INTINET. FOR USE IN ARELS WITH SHAPE IN BLEGORS LAWIS, FOR EXPAUSIMENT IN MOTO JOURNIN, WITHOUSEN HAMAGEBENT THEY AREA, MICTURE INCLUDES: CERTIFED KENTUCKY BLUEGASS CULTIVARS JO-48X AND CERTIFIED IN REFEDUL 69-70X SEROID RATE 1 J. > 1,2 BS/1,00S ST. A MINIMUM OF 3 DELUCEASS CULTIVARS SHOULD BE CHOSEN RAIGN FOR A MINIMUM OF TAX OF THE MIXTURE WEIGHT.

NOTE TURFGRASS VARIETIES SHOULD BE SELECTED FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MIMEO /77. "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND".

STANDARDS AND SPECIFICATIONS FOR VEHICLE WASH RACK

PURPOSE: THE VEHICLE WASH AREA' IS PROVIDED TO MINUAL2E THE QUANTITY OF SEDIMENT DEPOSITED ON PUBLIC SPACE BY VEHICLES LEAVING THE SITE.

CONDITIONS WHERE PRACTICE APPLIES: THE 'VEHICLE WASH AREA' WILL BE REQUIRED ON ANY SITE WHERE VEHICLES CAN ENTER ONTO UNIMPROVED SURFACES.

MINIMUM ACCEPTABLE VALUE ELONGATION AT FAILURE (%) ASTM D1682 ASTM D3788 MULLEN BURST STRENGTH (PSI) PUNCTURE STRENGTH (LBS) ASTM D751 SURRY FLOW RATE (GAL/MIN/SF) 0.3
EQUIVALENT OPENING SIZE 40-80
ULTRAVIOLET RADIATION STABILITY (%) 90 MODIFIED VIRGINIA DOT VTM-51 US ST SIEVE CW-02215 ASTM G-26

2. FENCE POST (FOR FABRICATION UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG, WOOD POSTS WILL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SOUARE INCHES. STELL POSTS WILL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN 1.00 FOUND PER LINEAR FOOT

4. PREFABRICATED UNITS: ENVIRONFENCE OR APPROVED EQUIVALENT MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDING THE UNIT IS INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

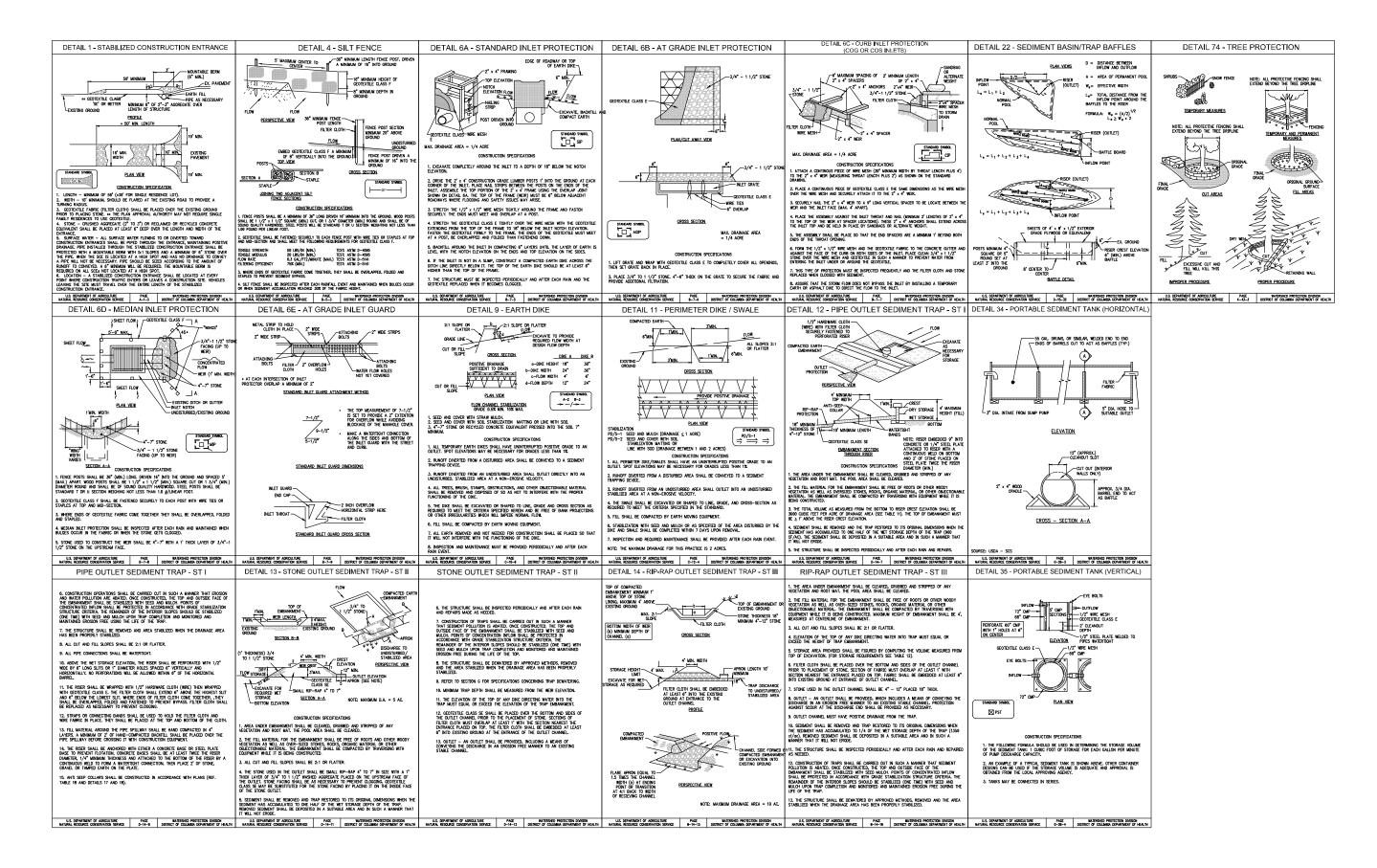
STREETS WITHIN ONE MILE (1.6km) SHALL BE INSPECTED DAILY, ANY DROPPED SOIL, DUST AND/OR DEBRIS SHALL BE REMOVED.

ROADS SHALL BE SWEPT ON A WEEKLY BASIS (MINIMUM) DURING ALL ON AND OFF-SITE HAULING OPERATIONS FOR UP TO ONE MILE

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EROSION & SEDIMENT CONTROL NOTES

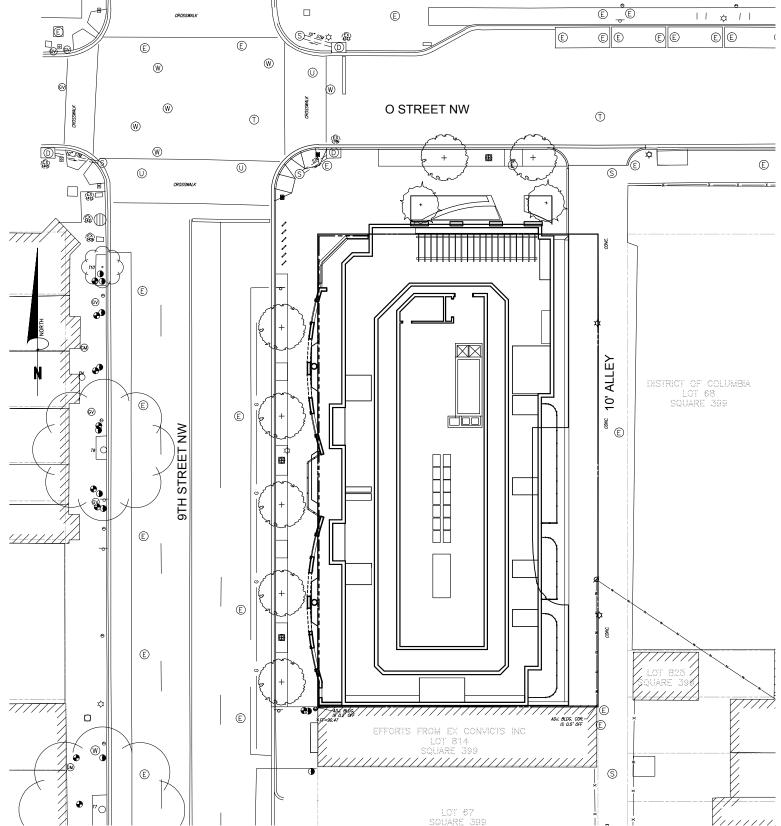






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STORMWATER MANAGEMENT NARRATIVE:

CONCEPTUAL STORMWATER MANAGEMENT PROVIDED FOR PUD REVIEW ONLY. DURING FURTHER DEVELOPMENT OF THE PUD AND FORTHCOMING DEVELOPMENT OF THE FINAL SITE PLAN, STORMWATER MANAGEMENT DESIGN WILL BE ADVANCED TO REFLECT ADDITIONAL DETAILS. THE DESIGN CRITERIA FOR THE PROJECT INCLUDE:

- STORMWATER MANAGEMENT DESIGN WILL MEET OR EXCEED THE CURRENT STANDARDS OF THE DISTRICT OF. COLUMBIA IN PLACE AT THE TIME OF PUD APPROVAL.
- THE STORMWATER RUNOFF WILL BE TREATED USING LOW IMPACT DEVELOPMENT BMP MEASURES.
- THE STORMWATER RUNOFF WILL BE TREATED USING A COMBINATION OF ON-SITE BMPs SUCH AS GREEN ROOF AND CISTERN FOR WATER REUSE.

NOTE: AT THE CONCEPT LEVEL, SIZE AND LOCATION OF SWM FACILITIES ARE NOT YET DETERMINED. ACTUAL DESIGN OF THE FACILITIES WILL BE PROVIDED DURING FINAL SITE PLAN.

SWM REQUIREMENTS:

THIS PROJECT FALLS WITHIN THE GUIDELINES OF A 'MAJOR LAND DISTURBANCE' THUS REQUIRING A STORMWATER RETENTION VOLUME (SWRV) BASED ON THE 1.2" STORM, PER THE 2013 SWM GUIDEBOOK FOR THE DISTRICT. IN ADDITION TO THE REQUIRED VOLUME RETENTION ON—SITE, THE DESIGNED SWM FACILITIES WILL PROVIDE 2-YR AND 15-YR STORM CONTROL FOR PEAK DISCHARGE TO THE PRE-PROJECT AND PRE-DEVELOPMENT RATE, RESPECTIVELY.

- TOTAL SITE DISTURBANCE = 15,093 sf
- SWRv REQUIRED = 1,434 cf

Site Information		
Is Site an "AWDZ Site"?	No	
Is Site Located in the MS4?	No	
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA NA	

	Indicate Post-Development Land Cover		
	Disturbed Public Right of Way	Major Land Disturbing	
Cover Type	Area (square feet)	Area (square feet)	
Natural Cover			
Compacted Cover			
Impervious Cover		15,093	
BMP			
Site Total	0	15,093	
Retention Standard for SWRv (inches)	0.0	1.2	

	SWRv and WQTv Summary		
	Disturbed Public Right of Way	Site Development	
Stormwater Retention Volume, SWRv (cubic feet)	0	1,434	
Stormwater Retention Volume, SWRv (gallons)	0	10,725	
Water Quality Treatment Volume, WQTv (cubic feet)	NA NA	NA	
Water Quality Treatment Volume, WQTv (gallons)	NA NA	NA.	









GREEN ROOF SPECIFICATIONS AND MAINTENANCE:

Table 3.3 Typical Maintenance Activities Associated with Green Roofs

Schedule (following construction)	Activity
As needed or as required by manufacturer	 Water to promote plant growth and survival. Inspect the green roof and replace any dead or dying vegetation.
Semi-annually	Inspect the waterproof membrane for leaks and cracks. Weed to remove invasive plants (do not dig or use pointed tools where there is potential to harm the root barrier or waterproof membrane). Inspect roof drains, scuppers, and gutters to ensure they are not overgrown and have not accumulated organic matter deposits. Remove any accumulated organic matter or debris. Inspect the green roof for dead, dying, or invasive vegetation. Plant replacement vegetation as needed.

Table 3.1 Extensive Green Roof Material Specifications

Material	Specification					
Roof	Structural capacity must conform to ASTM E-2397-05, Practice for Determination of Live Loads and Dead Loads Associated with Vegetative (Green) Roof Systems. In addition, use standard test methods ASTM E2398-05 for Water Capture and Media Retention of Geocomposite Drain Layers for Green (Vegetated) Roof Systems and ASTME 2399-05 for Maximum Media Density for Dead Load Analysis.					
Leak Detection System	Optional system to detect and locate leaks in the waterproof membrane.					
Waterproof Membrane	See Chapter 6 of Weiler and Scholz-Barth (2009) for waterproofing options that are designed to convey water horizontally across the roof surface to drains or gutter. The layer may sometimes act as a root barrier.					
Root Barrier	Impermeable liner that impedes root penetration of the membrane.					
Drainage Layer	Depth of the drainage layer is generally 0.25 to 1.5 inches thick for extensive designs. The drainage layer should consist of synthetic or inorganic materials (e.g., gravel, high density polyethylene (HDPE), etc.) that are capable of retaining water and providing efficient drainage. A wide range of prefabricated water cups or plastic modules can be used, as well as a traditional system of protected roof drains, conductors, and roof leaders. Designers should consult the material specifications as outlined in ASTM E2396 and E2398. Roof drains and emergency overflow must be designed in accordance with the District's construction code (DCMR, Title 12).					
Filter Fabric	Generally needle-punched, non-woven, polypropylene geotextile, with the following qualities: • Strong enough and adequate puncture resistance to withstand stresses of installing other layers of the green roof. Density as per ASTM D3776 ≥ 8 oz/yd². Puncture resistance as per ASTM D4833 ≥ 130 lb. These values can be reduced with submission of a Product Data Sheet and other documentation that demonstrates applicability for the intended use. • Adequate tensile strength and tear resistance for long term performance. • Allows a good flow of water to the drainage layer. Apparent Opening Size, as per ASTM D4751, of ≥ 0.06mm ≤ 0.2mm, with other values based on Product Data Sheet and other documentation as noted above. • Allows at least fine roots to penetrate. • Adequate resistance to soil borne chemicals or microbial growth both during construction and after completion since the fabric will be in contact with moisture and possibly fertilizer compounds.					
Growth Media	70% to 80% lightweight inorganic materials and a maximum of 30% organic matter (e.g., well-aged compost). Media typically has a maximum water retention of approximately 30%. Material makeup and proof of maximum water retention of the growing media must be provided. Media must provide sufficient nutrients and water holding capacity to support the proposed plant materials. Determine acceptable saturated water permeability using ASTM E2396-05.					
Plant Materials	Sedum, herbaceous plants, and perennial grasses that are shallow-rooted, low maintenance, and tolerant of direct sunlight, drought, wind, and frost. See ASTM E2400-06, Guide for Selection, Installation and Maintenance of Plants for Green (Vegetated) Roof Systems.					

RAINWATER HARVESTING SPECIFICATIONS AND MAINTENANCE:

Table 3.7 Typical Maintenance Tasks for Rainwater Harvesting Systems

Responsible Person	Frequency	Activity				
	Four times a year	Inspect and clean prescreening devices and first flush diverters				
	Twice a year	Keep gutters and downspouts free of leaves and other debris				
Owner	Once a year	Inspect and clean storage cistern lids, paying special attention to vents and screens on inflow and outflow spigots. Check mosquito screens and patch holes or gaps immediately Inspect condition of overflow pipes, overflow filter path, and/or secondary stormwater treatment practices				
	Every third year	Clear overhanging vegetation and trees over roof surface				
Qualified Third Party Inspector	According to Manufacturer	Inspect water quality devices				
	As indicated in TRAM	Provide water quality analysis to DDOE				
	Every third year	Inspect cistern for sediment buildup Check integrity of backflow preventer Inspect structural integrity of cistern, pump, pipe and electrical system Replace damaged or defective system components				

Table 3.6 Design Specifications for Rainwater Harvesting Systems

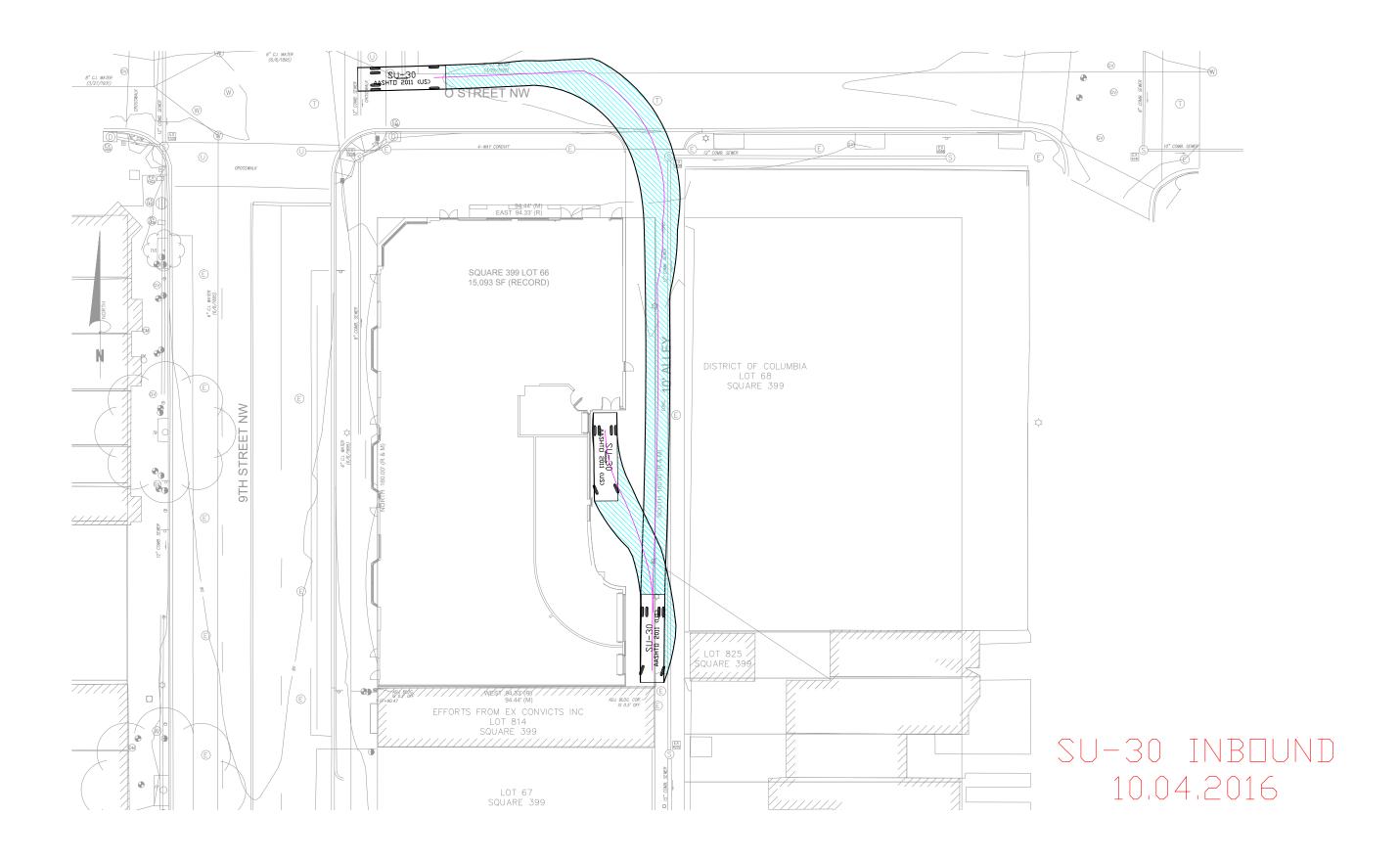
Item	Specification
Gutters and Downspouts	Materials commonly used for gutters and downspouts include polyvinylchloride (PVC) pipe, vinyl, aluminum, and galvanized steel. Lead must not be used as gutter and downspout solder, since rainwater can dissolve the lead and contaminate the water supply. The length of gutters and downspouts is determined by the size and layout of the eatchment and the location of the cisterns. Be sure to include needed bends and tees.
Pretreatment	At least one of the following (all rainwater to pass through pretreatment): First flush diverter Hydrodynamic separator Roof washer Leaf and mosquito screen (1 mm mesh size)
Cisterns	Materials used to construct eisterns must be structurally sound. Cisterns should be constructed in areas of the site where soils can support the load associated with stored water. Cisterns must be watertight and sealed using a water-safe, non-toxic substance. Cisterns must be opaque or otherwise shielded to prevent the growth of algae. The size of the rainwater harvesting system(s) is determined through design calculations.

Note: This table does not address indoor systems or pumps.

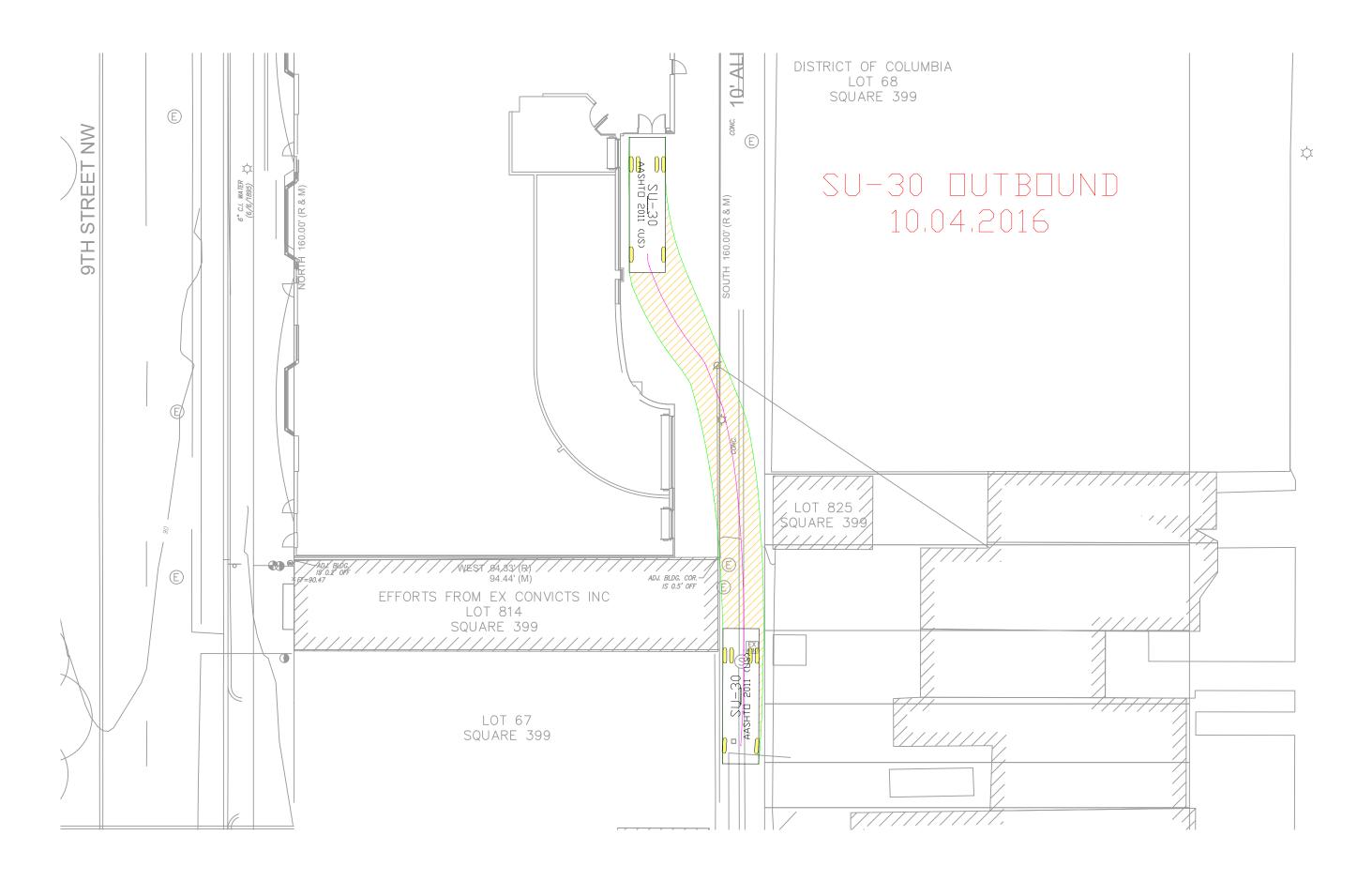








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OUTBOUND TRUCK TURNING DIAGRAM

(V/2 (8))	2009 for New Construction and t Checklist	ı major Kenov	ations				Project Na D
	nable Sites	Possible Points:	26		Materi	als and Resources, Continued	
? N Prereg 1	Construction Activity Pollution Prevention			Y ? N	Credit 4	Recycled Content	1 to 2
Credit 1	Site Selection		1	2	Credit 5	Regional Materials	1 to 2
Credit 2	Development Density and Community Connectiv	vitv	5	1	Credit 6	Rapidly Renewable Materials	1
Credit 3	Brownfield Redevelopment	,,	1	1	Credit 7	Certified Wood	1
Credit 4.1	Alternative Transportation—Public Transportation	ion Access	6	•	or care?	Continued Wood	•
Credit 4.2	Alternative Transportation—Bicycle Storage and		1	11	Indoor	Environmental Quality Possible Point	nts: 15
Credit 4.3	Alternative Transportation—Low-Emitting and F		, , 3		maoor	211111 offitted Quartey 1 0351btc 1 off	163. 13
Credit 4.4	Alternative Transportation—Parking Capacity	det Erricient vemete	2	Υ	Prereg 1	Minimum Indoor Air Quality Performance	
Credit 5.1	Site Development—Protect or Restore Habitat		1	Y	Prereg 2	Environmental Tobacco Smoke (ETS) Control	
Credit 5.2	Site Development—Maximize Open Space		1	1	Credit 1	Outdoor Air Delivery Monitoring	1
Credit 6.1	Stormwater Design—Quantity Control		1		Credit 2	Increased Ventilation	1
Credit 6.2	Stormwater Design—Quality Control		1	1	Credit 3.1	Construction IAQ Management Plan—During Construction	1
Credit 7.1	Heat Island Effect—Non-roof		1	1	_	Construction IAQ Management Plan—Before Occupancy	1
Credit 7.2	Heat Island Effect—Roof		1	1		Low-Emitting Materials—Adhesives and Sealants	1
Credit 8	Light Pollution Reduction		1	1		Low-Emitting Materials—Paints and Coatings	1
0.00.00	Light Foliation Reduction		•	1		Low-Emitting Materials—Flooring Systems	1
2 Water	Efficiency	Possible Points:	10	1	_	Low-Emitting Materials—Composite Wood and Agrifiber Product	· s 1
- Water	Lineary	1 0331DCC 1 0111C3.	10	1	Credit 5	Indoor Chemical and Pollutant Source Control	
Prereg 1	Water Use Reduction—20% Reduction			1	Credit 6.1	Controllability of Systems—Lighting	1
Credit 1	Water Efficient Landscaping		2 to 4	1	_	Controllability of Systems—Thermal Comfort	1
Credit 2	Innovative Wastewater Technologies		2	1	Credit 7.1		1
Credit 3	Water Use Reduction		2 to 4		_	Thermal Comfort—Verification	1
					Credit 8.1	Daylight and Views—Daylight	1
2 Energ	y and Atmosphere	Possible Points:	35		Credit 8.2	Daylight and Views—Views	1
Prereq 1	Fundamental Commissioning of Building Energy	Systems		3	Innova	tion and Design Process Possible Poi	nts: 6
Prereq 2	Minimum Energy Performance					-	
Prereq 3	Fundamental Refrigerant Management				Credit 1.1	Innovation in Design: Specific Title	1
Credit 1	Optimize Energy Performance		1 to 19	1	Credit 1.2	Innovation in Design: Specific Title	1
Credit 2	On-Site Renewable Energy		1 to 7	1	Credit 1.3	Innovation in Design: Specific Title	1
Credit 3	Enhanced Commissioning		2		Credit 1.4	Innovation in Design: Specific Title	1
Credit 4	Enhanced Refrigerant Management		2			Innovation in Design: Specific Title	1
Credit 5	Measurement and Verification		3	1	Credit 2	LEED Accredited Professional	1
Credit 6	Green Power		2		_		
				1 1	Region	al Priority Credits Possible Po	ints: 4
1 Mater	ials and Resources	Possible Points:	14				
				1	_	Regional Priority: Specific Credit	1
Prereq 1	Storage and Collection of Recyclables	15. 4		1		Regional Priority: Specific Credit	1
Credit 1.1	Building Reuse—Maintain Existing Walls, Floors,		1 to 3			Regional Priority: Specific Credit	1
Credit 1.2	Building Reuse—Maintain 50% of Interior Non-St	ructural Elements	1		Credit 1.4	Regional Priority: Specific Credit	1
	Construction Waste Management		1 to 2				
Credit 2 Credit 3	Materials Reuse		1 to 2	62 6	Total	Possible Po	

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