STAGE 2 PUD - CIVIL & LEED

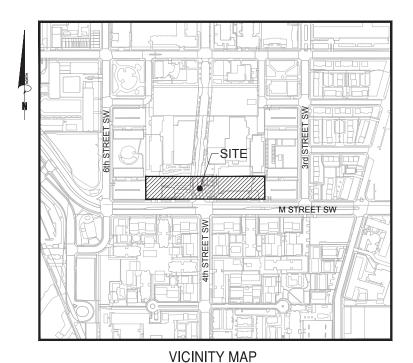
WATERFRONT II

ABBREVIATIONS:

APPROX APPROXIMATE EXISTING FACE OF CURB FLOOR DRAIN AMERICAN SOCIETY FOR TESTING AND MATERIALS
AMERICAN WATER WORKS ASSOCIATION ASTM AWWA BACK OF CURB BASEMENT FLOOR FIRST FLOOR FINISH GRADE BUILDING FIRE HYDRANT BENCHMARK FLOW LINE GAS GUARD RAIL OR GRATE INLET BLOW OFF VALVE BUILDING RESTRICTION LINE BOTTOM OF WALL HANDICAP HIGH POINT C&G CURB AND GUTTER CATCH BASIN HAND RAIL INV CONCRETE CURB INVFRT IRON PIPE IRON PIPE SET LOW POINT CENTERI INF CORRUGATED METAL PIPE CLEAN OUT MH O/H PCC PROP PVMT SAN SEW STD S/W TC TEL TP PORTLAND CEMENT CONCRETE DUCTILE IRON PIPE DROP INLET DOMESTIC PROPOSED. DI DOM PAVEMENT SANITARY SEWER STANDARD SIDEWALK DOMESTIC

EAST BOUND LANE
EDGE OF GUTTER
ELEVATION
ELECTRIC
ELEVATION
ENTRANCE ELEV ELEV ENT TOP OF CURB
TELEPHONE
TEST PIT OR TREE PROTECTION
TOP OF WALL OR TAILWATER
UTILITY POLE EDGE OF PAVEMENT EQUIPMENT EP EQUIP EASEMENT END WALL UNDERGROUND UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE UGE UGT UNDERGROUND CABLE UNDERDRAIN WATER METER

SQUARE 542; LOTS 826, 833, 834, AND 825 375 AND 425 M STREET SW WASHINGTON, DC



UTILITY CONTACTS:

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

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

WASHINGTON, DC 20032

GAS: WASHINGTON GAS CO. - VANN JONES (703) 750-5983

SPRINGFIELD, VA 22151

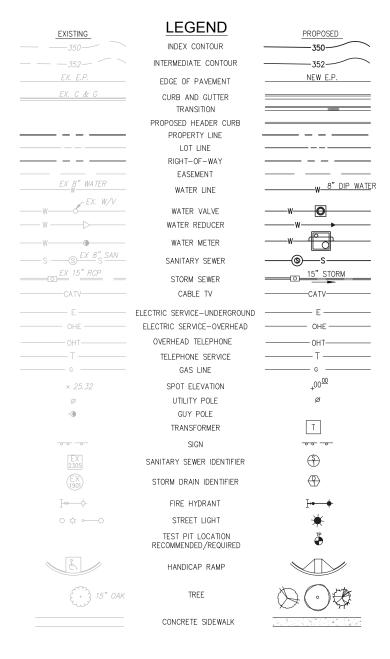
COMMUNICATIONS: VERIZON COMMUNICATIONS - DIVINA YANCEY (301) 282-7736

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

ENGINEER

SCALE: 1" = 600'

BOWMAN CONSULTING GROUP DC PC 888 17TH STREET NW SUITE 510 WASHINGTON, DC 20006 (202) 750-2474 ÀTTN: RYAN J BRANNAN, P.E.



CIVIL DRAWING LIST - PUD:

C0.01	COVER SHEET
C0.02	GENERAL NOTES
C1.11	EXISTING CONDITIONS PLAN - 425 M ST. SW
C1.12	EXISTING CONDITIONS PLAN - 375 M ST. SW
C1.21	EROSION AND SEDIMENT CONTROL PLAN - 425 M ST. SV
C1.22	EROSION AND SEDIMENT CONTROL PLAN - 375 M ST. SV
C1.31	SITE PLAN - 425 M ST. SW
C1.32	SITE PLAN - 375 M ST. SW
C1.41	GRADING PLAN - 425 M ST. SW
C1.42	GRADING PLAN - 375 M ST. SW
C1.51	UTILITY PLAN - 425 M ST. SW
C1.52	UTILITY PLAN - 375 M ST. SW
C5.01	EROSION AND SEDIMENT CONTROL NOTES
C5.02	EROSION AND SEDIMENT CONTROL DETAILS
C7.01	STORMWATER MANAGEMENT PLAN - 425 M ST. SW
C7.02	STORMWATER MANAGEMENT PLAN - 375 M ST. SW



Bowman

DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS
- 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
- EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM A SURVEY PREPARED BY BOWMAN CONSULTING ENTITLED, "TOPOGRAPHIC SURVEY ON LOTS 825, 826, 833, & 834, SQUARE 542", DATED 11/4/16, AND FROM AVAILABLE UTILITY COMPANY RECORDS
- 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 EXCAVATION.
- THE CONTRACTOR MUST HAND-DIG 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 OR 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.
- 7. 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 EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. REFER TO SHEETS CIVO131, CIVO132, CIVO510, AND CIVO520 FOR 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.
- 10. 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.
- 11. 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 202-576-5258.
- 13. 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. PAVEMENT TO BE REMOVED PER DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- 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 LITHLITIES
- 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) 787-4024 48 HOURS PRIOR TO START OF CONSTRUCTION
- 17. UNLESS OTHERWISE SHOWN ON THESE DRAWINGS, EXISTING PAVEMENT ON M STREET SW AND 4TH STREET SW TO REMAIN. PROVIDE PRE-CONSTRUCTION VIDEO OF EXISTING PAVEMENT ON M STREET SW AND 4TH STREET SW. 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.
- 20. 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
- 2. VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, DC WATER (202-787-4024) 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
- 5. 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.
- 7. 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.
- 8. EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS, CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT OR ENGINEER
- 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
- 12. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED
- 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 MANHOLE/INLETS 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 ANYTRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITEY AT WASHINGTON GAS AT 703-750-4205.
- 18. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES
- 19. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND PROPOSED FACILITIES.
- 20. 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. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, CURB AND GUTTER TO REMAIN OR TO REPLACE SIDEWALK, CURB AND GUTTER DAMAGED DURING CONSTRUCTION
- 22. 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: a) CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING
 - b) WATER SERVICES AT 202-612-3400 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.
 - c) SEWER SERVICES AT 202-264-3862 OR 3873 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/ABANDONMENT. 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 PUBLIC SYSTEMS.
- 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
- 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.
- 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.
- 12. 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 DC 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 PREVENTION ASSEMBLIES.
- 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 METER PITS.
- 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
- 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 LISED
- 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
- 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 MAINS.
- 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.
- 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.
- 23. 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 SEWER.



SANITARY/COMBINED STRUCTURE AS-BUILT TABLE

- TOP = 20.68 IN = 10.96 (6" SAN Fr. 10.36) OUT = 10.59 (8" SAN To 2186)
- SAN TOP=21.44 1N=9.30 (12") OUT=9.26 (12" TO 2247)
- TOP=21.50 INV. IN (12" FR 2172)=10.30
- INV. OUT (12" TO 3808)=10.28 TOP=20.76 INV. IN (12" FR 2246)=8.20
- INV. OUT (12" TO 3811)=8.05 TOP=20.59
 INV. IN (12" FR 2247)=8.68
 INV. OUT (12" TO 1367)=8.57
- SAN TOP=20.50 IN=9.01 (12" FR 3117) IN=9.01 (12" FR 2262) OUT=8.79 (12" TO 2246)
- SAN TOP=21.06 IN=9.38 (12") OUT=9.24 (12" TO 2247)
- TOP=19.71 INV. IN (12")=10.07 INV. OUT (18")=9.55
- SAN TOP=21.00 IN=8.86 (FROM SOUTH) IN=8.71 (FROM 3808) IN=7.92 (FROM 1161) OUT=7.61 (TO 3816)
- SAN TOP=21.64 IN=10.03 (FROM SOUTH) IN=9.95 (FROM 3802) IN=9.94 (FROM 1681) OUT=9.92 (TO 3811)
- TOP=16.41 10P=16.41 1NV. IN (18")=11.31 INV. IN (6")=12.57 INV. OUT (18")=11.25
- TOP=17.32 INV. IN (18")=2.82 INV. OUT (18")=2.72
- TOP=16.77 INV. IN (18")=2.93 INV. OUT (18")=2.90
- TOP=16.91 INV. IN (18")=10.21 INV. OUT (18")=4.25
- TOP=16.88

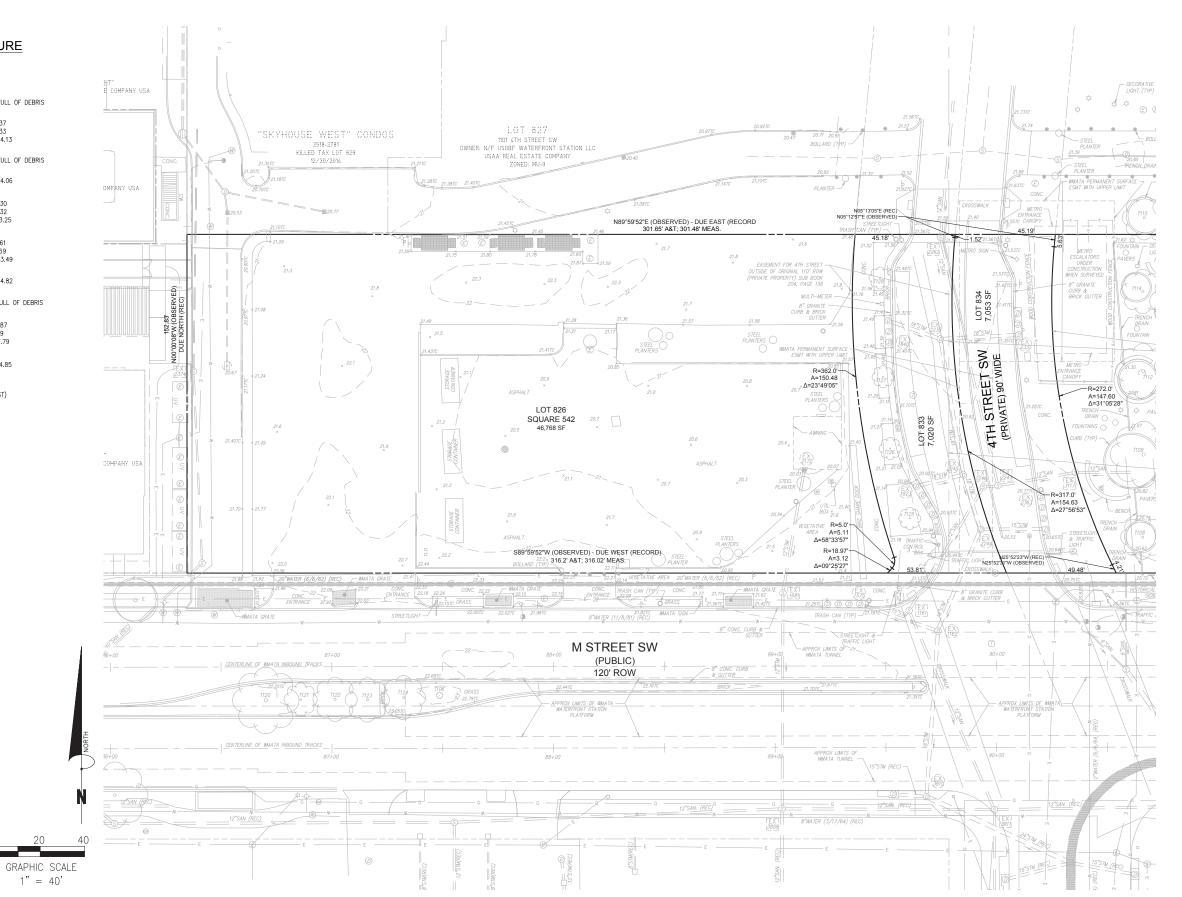
 NV. IN (18")=12.23
 INV. IN (6")=13.60
 INV. OUT (18")=12.20
- TOP = 21.09 |2189 | IN = 8.83 (8" SAN Fr. 2374) OUT = 8.54 (10" SAN To 1327)

STORM STRUCTURE **AS-BUILT TABLE**

- TOP=21.34 INV. OUT (18" TO 2238)=FULL OF DEBRIS
- TOP=21.29 INV. IN (18" FR 1840)=14.37 INV. IN (18" FR 2231)=14.33 INV. OUT (18" TO 2245)=14.13
- TOP=21.35 INV. OUT (18" TO 2238)=FULL OF DEBRIS
- TOP=20.79 INV. OUT (15" TO 2244)=14.06
- TOP=20.60 INV. IN (18" FR 2245)=13.30 INV. IN (15" FR 2363)=13.32 INV. OUT (18" TO 1162)=13.25
- TOP=20.81 INV. IN (18" FR 2238)=13.61 INV. IN (18" FR 1823)=13.69 INV. OUT (18" TO 2244)=13.49
- TOP=20.94 INV. OUT (18" TO 2245)=14.82
- TOP=20.03 INV. OUT (12" TO 1681)=FULL OF DEBRIS
- TOP=20.65 INV. IN (18" FR 2244)=12.87 INV. IN (18" FR 1575)=7.89 INV. OUT (18" TO 3810)=7.79
- TOP=21.15 INV. OUT (18" TO 1162)=14.85
- STM TOP=20.99 IN=16.09 (FROM 3809) IN=11.74 (FROM NORTHEAST) OUT=11.47 (TO 1378)
- TOP=16.72 INV. OUT (6")=13.49
- TOP=16.34 INV. OUT (6")=12.62

TREE TABLE

- T102 4" CONIFEROUS TREE T103 4" DECIDUOUS TREE T104 2" DECIDUOUS TREE T105 4" DECIDUOUS TREE T106 2" DEAD DECIDUOUS TREE T107 9" MAPLE T108 9" MAPLE
- T108 9" MAPLE T109 10" MAPLE T110 7" MAPLE T111 7" MAPLE T113 10" MAPLE T114 7" MAPLE T115 10" MAPLE T116 8" MAPLE T117 10" OAK T118 11" OAK T119 14" OAK 1119 14" OAK
 1120 12" POPLAR
 1121 10" POPLAR
 1122 10" POPLAR
 1123 10" POPLAR
 1124 12" POPLAR
 1125 4" DECIDIOUS TREE T126 6" DECIDUOUS TREE T127 4" DECIDUOUS TREE T128 6" DECIDUOUS TREE

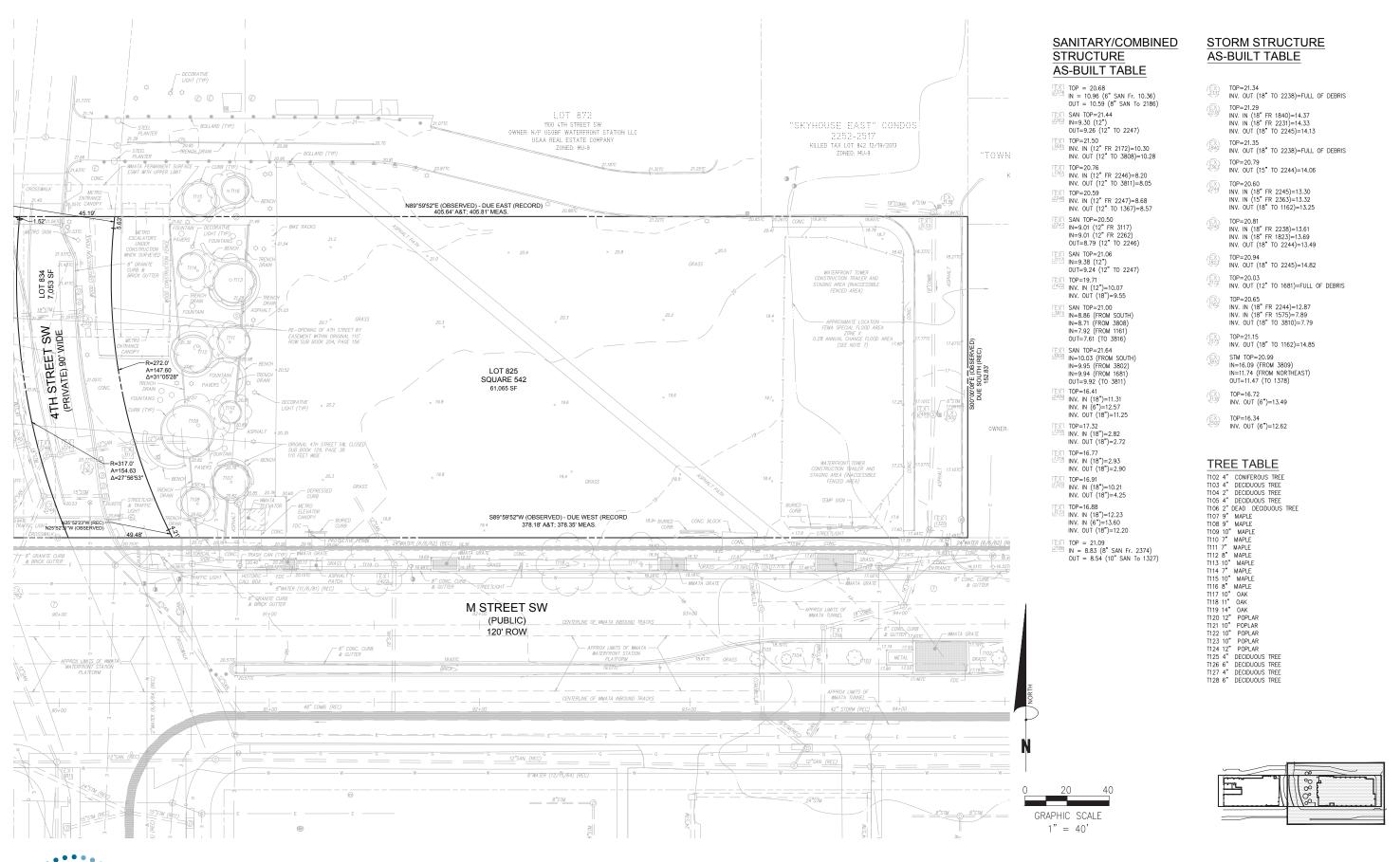




SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - EXISTING CONDITION - WEST BLDG (425)

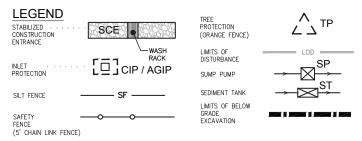
375 & 425 M STREET SW





CIVIL - EXISTING CONDITION - EAST BLDG (375)

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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.

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

A APPLY WATER WITH FOLIPMENT CONSISTING OF TANK SPRAY BAR PLIMP WITH DISCHARGE PRESSURE CALLGE

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:

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

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

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.

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 ENSURE THEIR SUPPORT.
PROVIDE SILT FENCE AT THE PERIMETER OF DISTURBED AREA OR EXCAVATION TO REMAIN IN PLACE UNTIL SITE IS

PROVIDE SIL 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.

THE APPLICATION MUST NOTIFY THE DEPARTMENT OF THE ENVIRONMENT BY PHONE (202–535–2250) AT LEAST 24 HOURS PROVED TO THE CONTRACTOR OF THE PROVIDED THE PROPERTY OF THE PROVIDED THE PROPERTY OF THE PROVIDED THE PROPERTY OF THE PROPERTY OF THE PROVIDED THE PROVIDED TO SEDIMENT AND THE PROPERTY OF THE PROVIDED THE PROVIDED THE PROVIDED TO SEDIMENT AND THE PROPERTY OF DEPOLETY OF THE PROVIDED THE PROPERTY OF DEPOLETY OF DEPOLETY.

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 NOTHIFIED IMMEDIATELY.

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.

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.
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 WASHED INTO A STORM DRAIN OR WATERWAYS.

REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.

PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS.

DISCONNECT UTILITIES AND RAZE BUILDING TO SURFACE.

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.

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, BUILDING TO BE RAZED TO THE SURFACE 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.

TREE AND ROOT PROTECTION NOTES:

ALL STREET TREES WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK MUST BE PROTECTED WITH 6 FT. TAIL ACL STREET RESEARCH STREET MAN AND A STREET HE GROUND AREA UNDER THE CANOPY OF A TREE. ALL PROTECTION MEASURES
THE DRIP LINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF A TREE. ALL PROTECTION MEASURES
AND EXCAVATION OPERATIONS SHALL COMPLY WITH THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION
THE DRIP CONTROL OF TRANSPORTATION. STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES (GOLD BOOK) - SECTIONS 207.03, 608.07 AND 608.08. IF THERE ARE ANY TREE CONFLICTS ON THIS JOB, SITE PERMIT HOLDER MUST SUSPEND ALL WORK THAT CONTRIBUTES TO THE CONFLICT AND IMMEDIATELY CONTACT WARD ARBORIST OR CALL THE DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-5133 TO RECEIVE CLEARANCE TO CONTINUE THE CONFLICTING WORK.

CONSTRUCTION DATES:

THE PROPOSED WORK DUE TO COMMENCE IN THE FALL OF 2017 AND IS ANTICIPATED TO TAKE APPROXIMATELY

18 MONTHS.

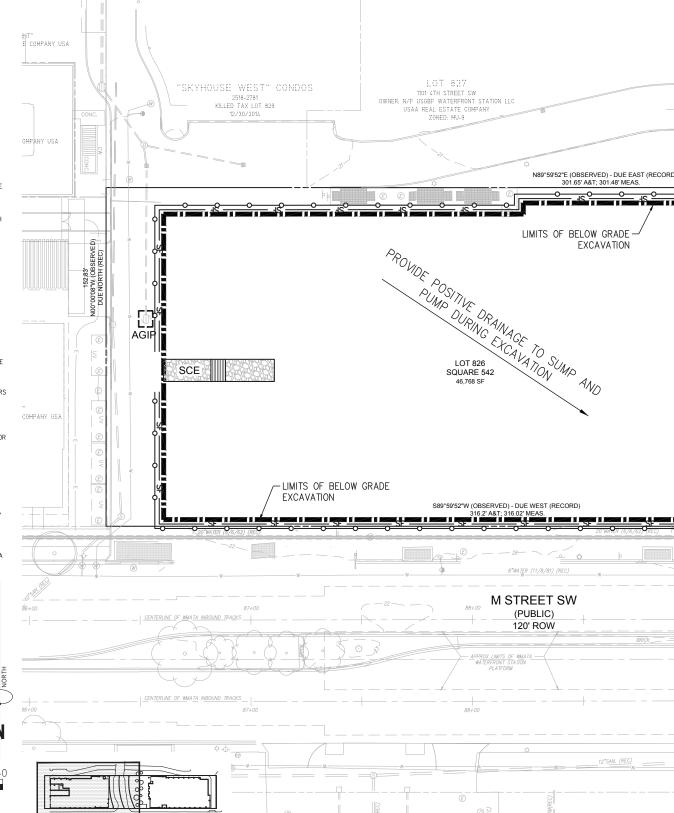
EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL AREAS - SOE:

SITE AREA: 46,768 SF OR 1.07 AC AREA TO BE DISTURBED: ±46,768 SF OR ±1.07 AC

EXCAVATION CUT/FILL:

OTAL VOLUME OF EXCAVATION = 38,000 SF (AREA) x 11 FT (DEPTH ASSUMED) / 27 = 15,500 CY \pm





SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - EROSION AND SEDIMENT CONTROL - WEST BLDG (425)

R=362

A=150.48 Δ=23°49'05"

TPA

 $\angle \odot \Delta$

TP

TP

 \angle°

T

AGIP

A=147.60 Δ=31°05'28"

AGIPI I

AGIP

R=317.0' A=154.63

CIP

8 o CIP

LOT 7,053

SW

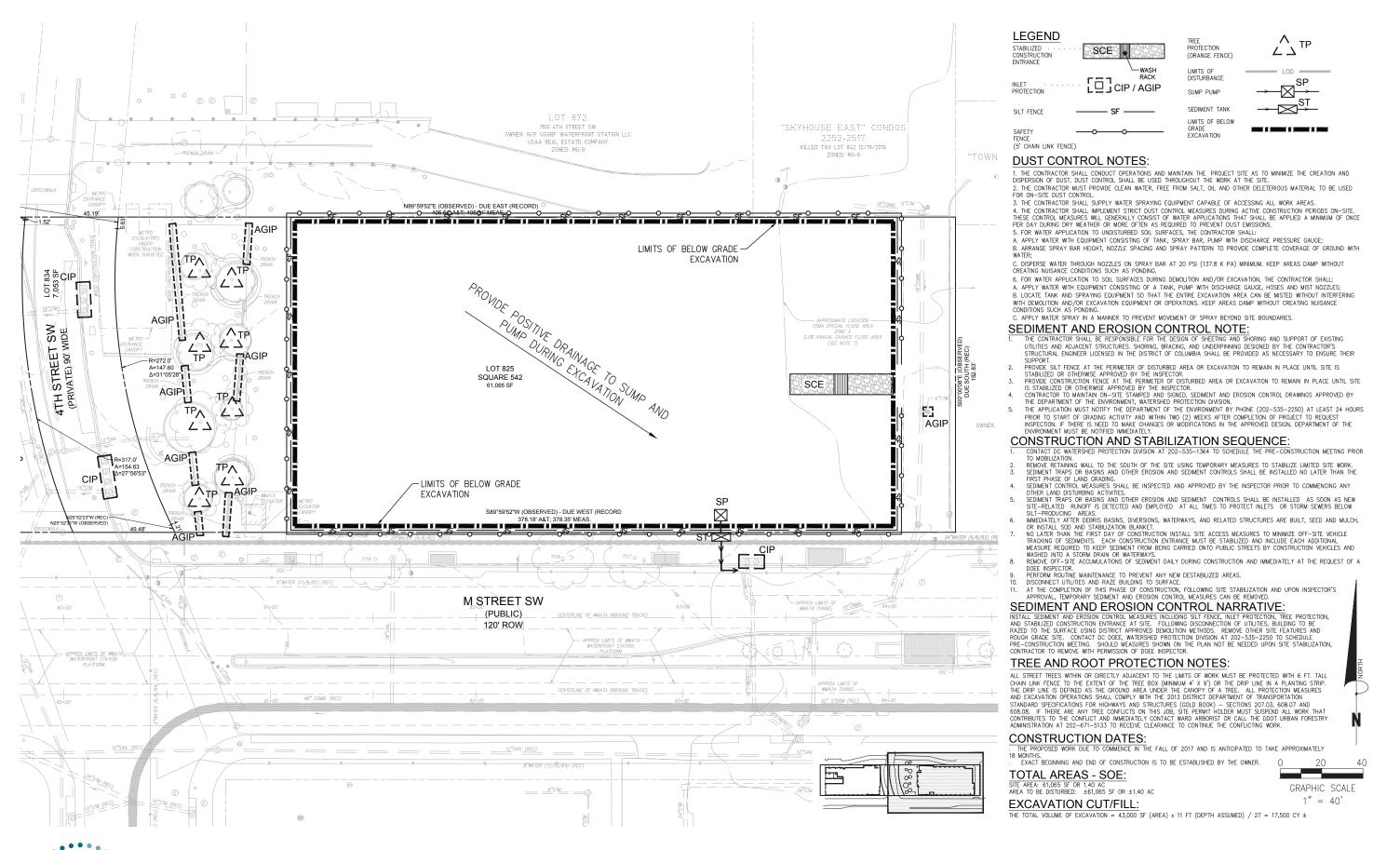
STREET NATE) 90' W

工图

LOT 7,02

CIP

GRAPHIC SCALE 1" = 40'



. STATION

CIVIL - EROSION AND SEDIMENT CONTROL - EAST BLDG (375)

Bowman

SOUTHEAST + SOUTHWEST M STREET PARCELS

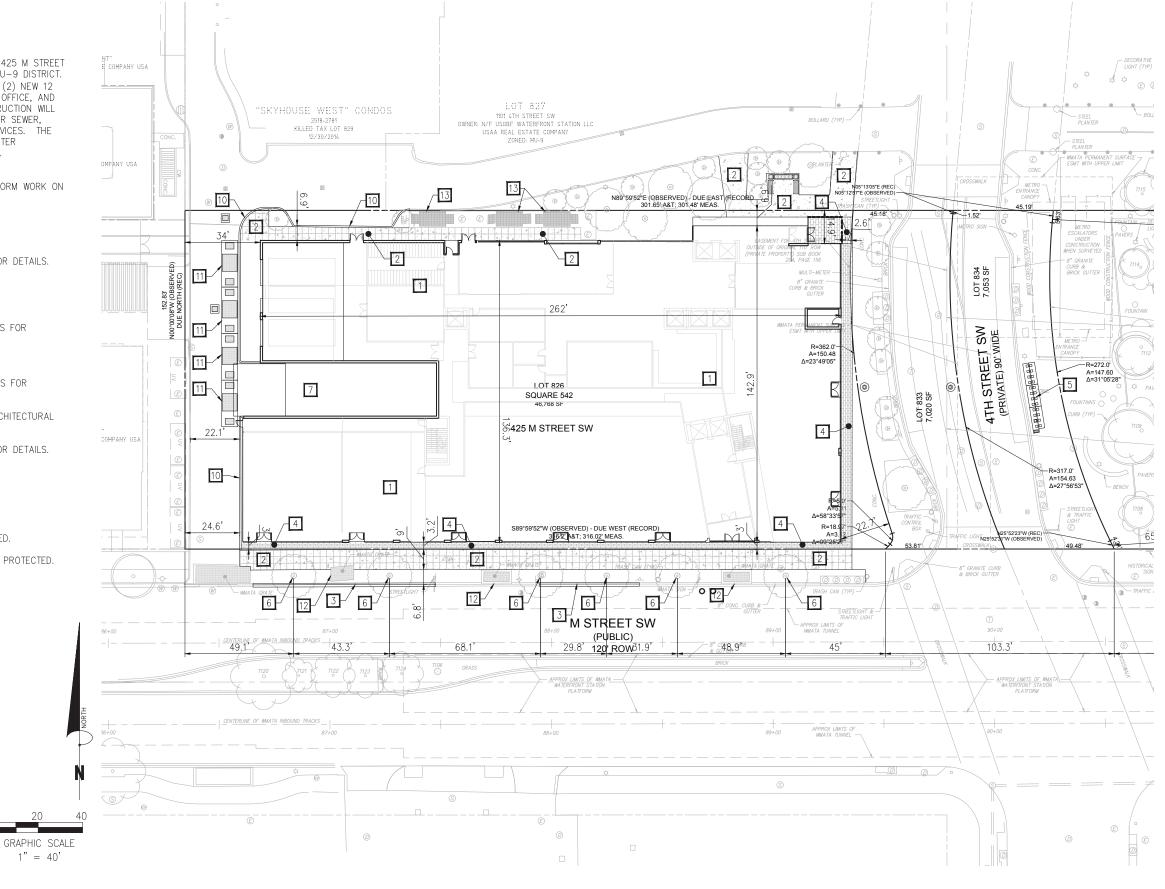
SITE NARRATIVE

THE PROJECT SITE IS LOCATED AT 375 M STREET SW AND 425 M STREET SW, SQUARE 540, LOTS 826, 833, 834, AND 825 IN THE MU-9 DISTRICT. PROPOSED DEVELOPMENT INCLUDES CONSTRUCTION OF TWO (2) NEW 12 STORY MIXED-USE BUILDINGS WITH GROUND FLOOR RETAIL, OFFICE, AND RESIDENTIAL ABOVE, WITH BELOW GRADE PARKING. CONSTRUCTION WILL ALSO INCLUDE THE INSTALLATION OF NEW SITE UTILITIES FOR SEWER, STORM DRAIN, FIRE PROTECTION AND DOMESTIC WATER SERVICES. THE PROJECT WILL MEET THE DESIGN STANDARDS FOR STORMWATER MANAGEMENT, AS REQUIRED BY THE DISTRICT OF COLUMBIA.

NOTE: OWNER TO GET PERMISSION AS NECESSARY TO PERFORM WORK ON

SITE KEYNOTES

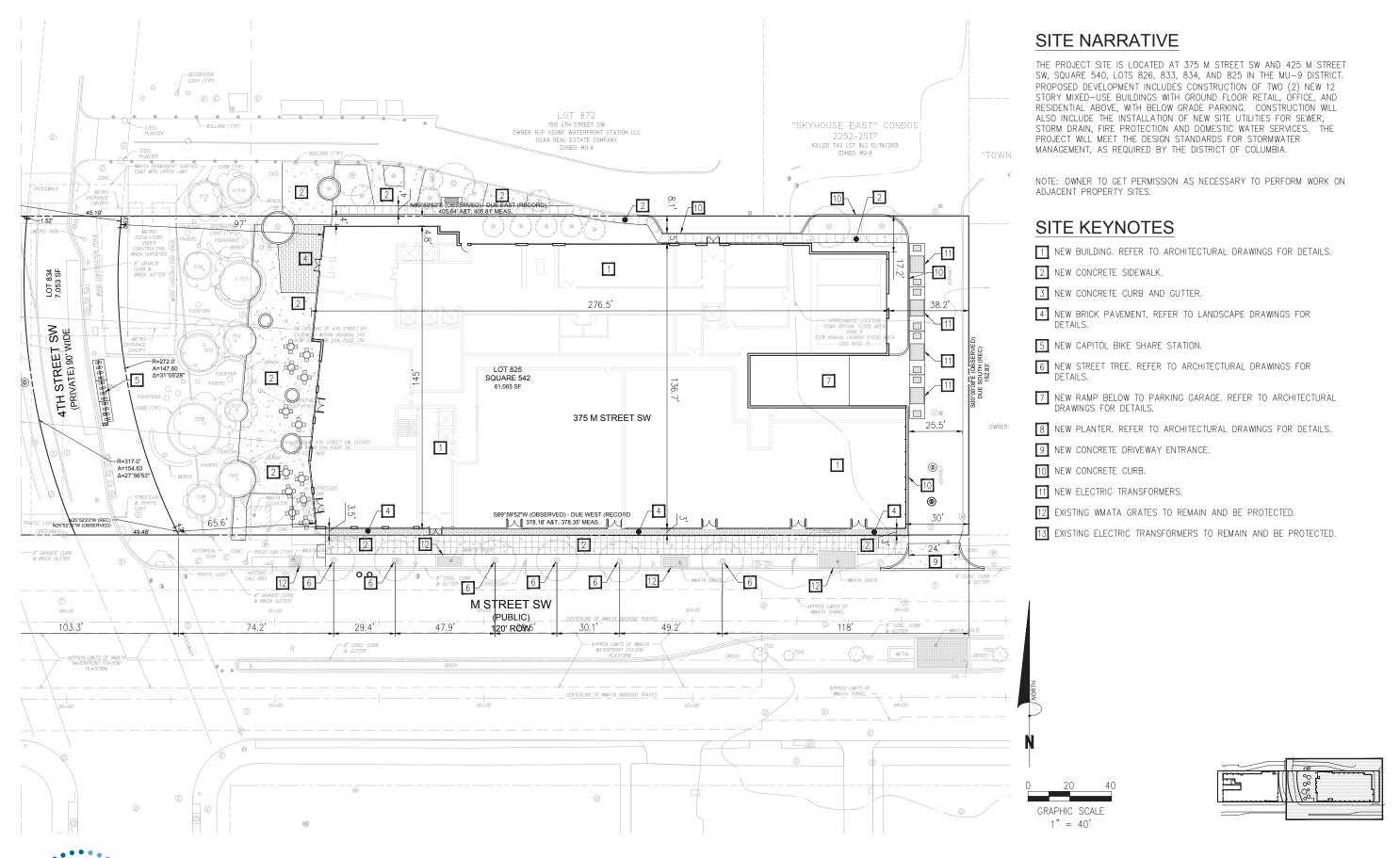
- 1 NEW BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2 NEW CONCRETE SIDEWALK.
- 3 NEW CONCRETE CURB AND GUTTER.
- 4 NEW BRICK PAVEMENT. REFER TO LANDSCAPE DRAWINGS FOR
- 5 NEW CAPITOL BIKE SHARE STATION.
- 6 NEW STREET TREE. REFER TO ARCHITECTURAL DRAWINGS FOR
- 7 NEW RAMP BELOW TO PARKING GARAGE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 8 NEW PLANTER. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 9 NEW CONCRETE DRIVEWAY ENTRANCE.
- 10 NEW CONCRETE CURB.
- 11 NEW ELECTRIC TRANSFORMERS.
- 12 EXISTING WMATA GRATES TO REMAIN AND BE PROTECTED.
- 13 EXISTING ELECTRIC TRANSFORMERS TO REMAIN AND BE PROTECTED.





SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - SITE PLAN - WEST BLDG (425)





CIVIL - SITE PLAN - EAST BLDG (375)

SOUTHEAST + SOUTHWEST M STREET PARCELS

Bowman

SPOT SHOT LEGEND

XXXX FINISHED FLOOR SPOT

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

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

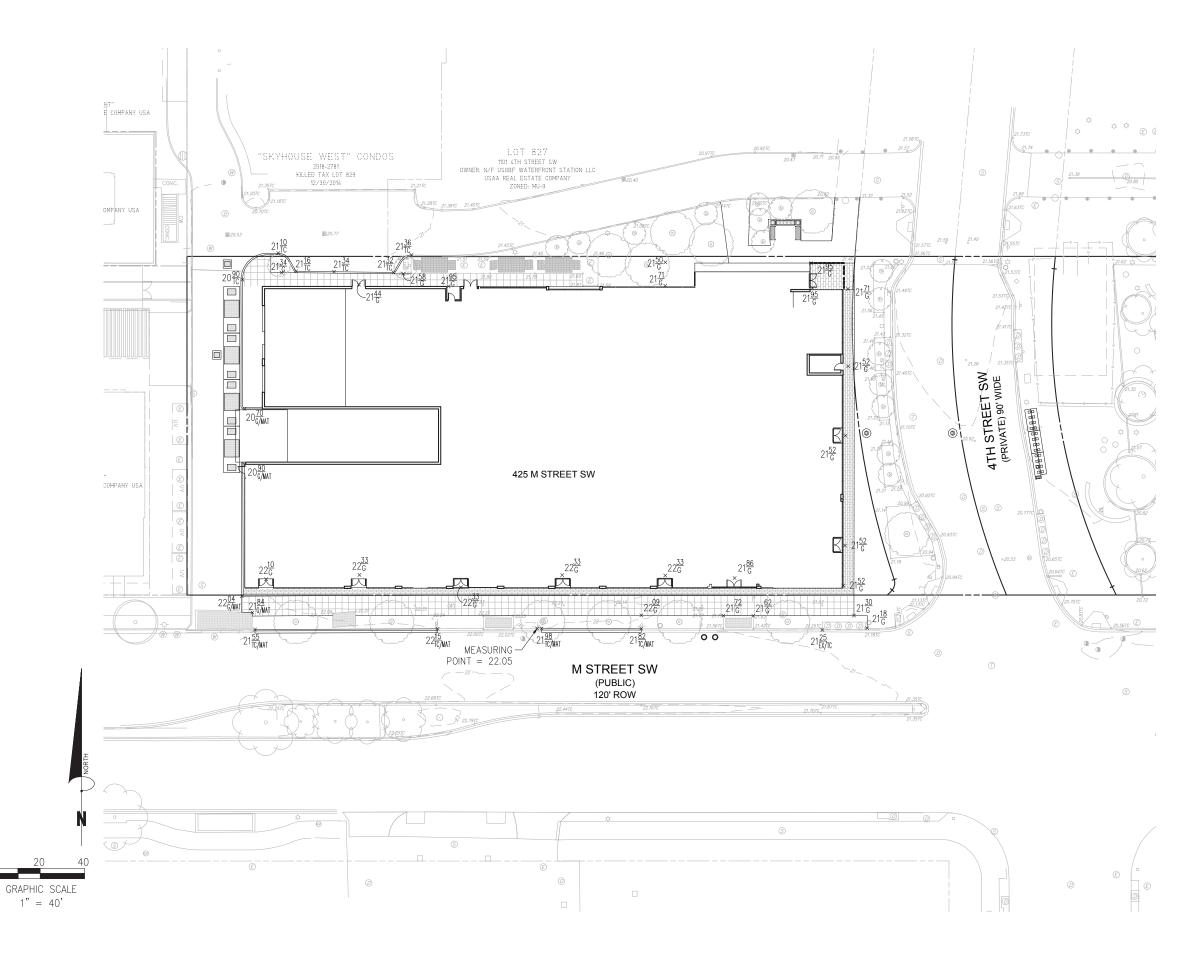
 $XX \frac{XX}{BC} \times$ BOTTOM OF CURB SPOT

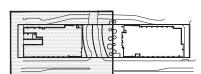
XXXX BOTTOM OF WALL SPOT

XXXX TOP OF STEPS SPOT

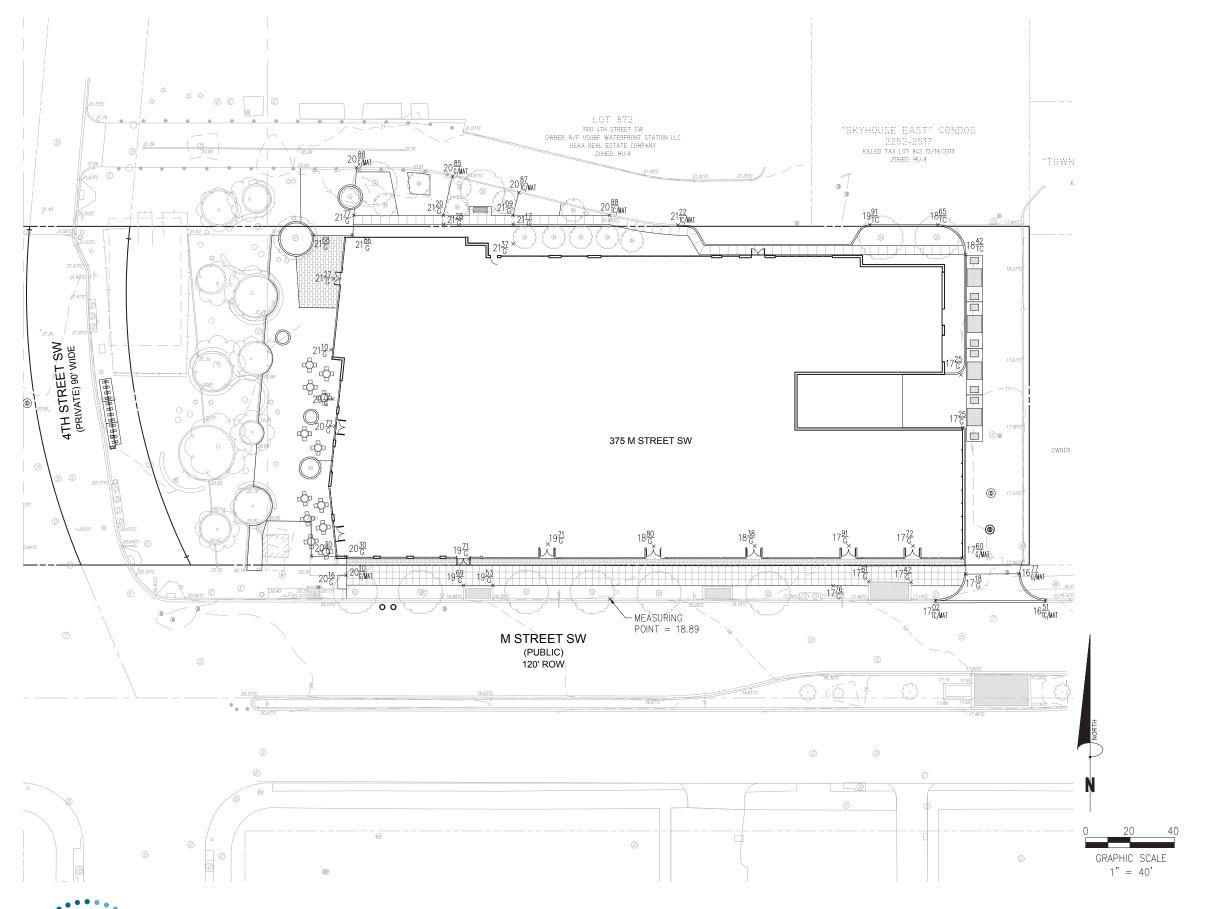
XXXX BOTTOM OF STEPS SPOT

 $XX \xrightarrow{XX}_{MAT} \times$ MATCH EXISTING SPOT









SPOT SHOT LEGEND

XXXX FINISHED FLOOR SPOT

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

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

 $XX_{\overline{BC}}^{XX} \times$ BOTTOM OF CURB SPOT

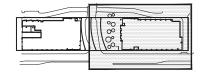
TOP OF WALL SPOT

 $XX\frac{XX}{BW}$ BOTTOM OF WALL SPOT

XXXXX TOP OF STEPS SPOT

XXXX BOTTOM OF STEPS SPOT

XXXX MATCH EXISTING SPOT



SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - GRADING PLAN - EAST BLDG (375)

425 M STREET SW UTILITY NARRATIVE

THE REDEVELOPMENT OF 425 M STREET SW WILL INCLUDE NEW UTILITIES SERVICING THE SITE. NEW DOMESTIC AND FIRE PROTECTION SERVICES WILL BE PROVIDED BY A CONNECTION FROM THE EXISTING 8" WATER MAIN IN M STREET SW. NEW SANITARY CONNECTION WILL TIE INTO THE EXISTING 10" SANITARY SEWER MAIN WITHIN THE WESTERN LIMITS OF THE PROPERTY. STORMWATER SERVICE WILL BE PROVIDED FROM A CONNECTION TO AN EXISTING 18" STORM SEWER MAIN IN 4TH STREET SW.

NOTE: INSIDE WATER METER TO BE PENDING COORDINATION BETWEEN DC WATER AND THE OWNER. EXTERNAL WATER METER VAULT MAY BE ADDED TO THE PLAN DURING FINAL ENGINEERING PHASE.

UTILITY KEYNOTES

- 1 NEW ELECTRICAL TRANSFORMERS.
- 2 NEW 4" DIP DOMESTIC SERVICE.
- 3 NEW 6" DIP FIRE SERVICE.
- 4 NEW 6" WATER VALVE.
- 5 NEW 6" x 4" REDUCER.
- 6 NEW 8" x 6" TEE WITH THRUST BLOCK.
- 7 NEW 8" PVC SDR-35 SANITARY LATERAL.
- 8 NEW 15" RCP CL IV STORM LATERAL.
- 9 NEW DOGHOUSE MANHOLE.
- 10 NEW CONNECTION TO EXISTING MANHOLE.
- 11 NEW GRATE INLET.
- 12 NEW PRIVATE 12" PVC SCH-40 STORM.
- 13 NEW 45° BEND.
- 14 NEW CLEANOUT MANHOLE.

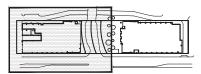
WATER AND SEWER DEMAND (425 M STREET SW)

(170 GPD PER UNIT X 301 UNITS) + (14.4 GPD PER SF X 16,580 SF) + (0.288 GPD PER SF X 16,040 SF) = 294,542 GPD

SEWER

 $\overline{294.542}$ GPD = 0.46 CFS

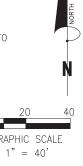
DEMANDS ARE BASED ON AVERAGE WASTEWATER FLOW FACTOR PER WSSC PIPELINE DESIGN MANUAL OF 2008. ALL RETAIL IS ASSUMED TO BE CARRY OUT RESTAURANT. FINAL UNIT COUNTS WILL BE DETERMINED DURING THE FINAL ENGINEERING PHASE.

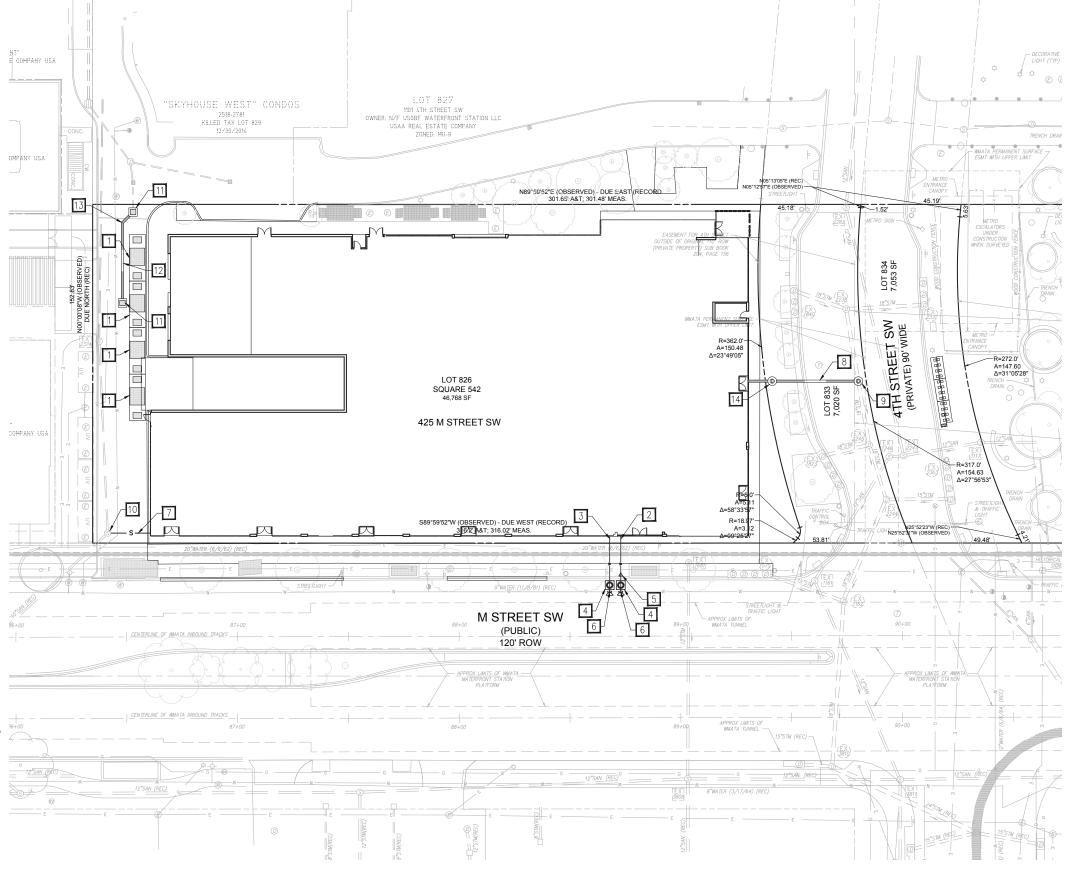








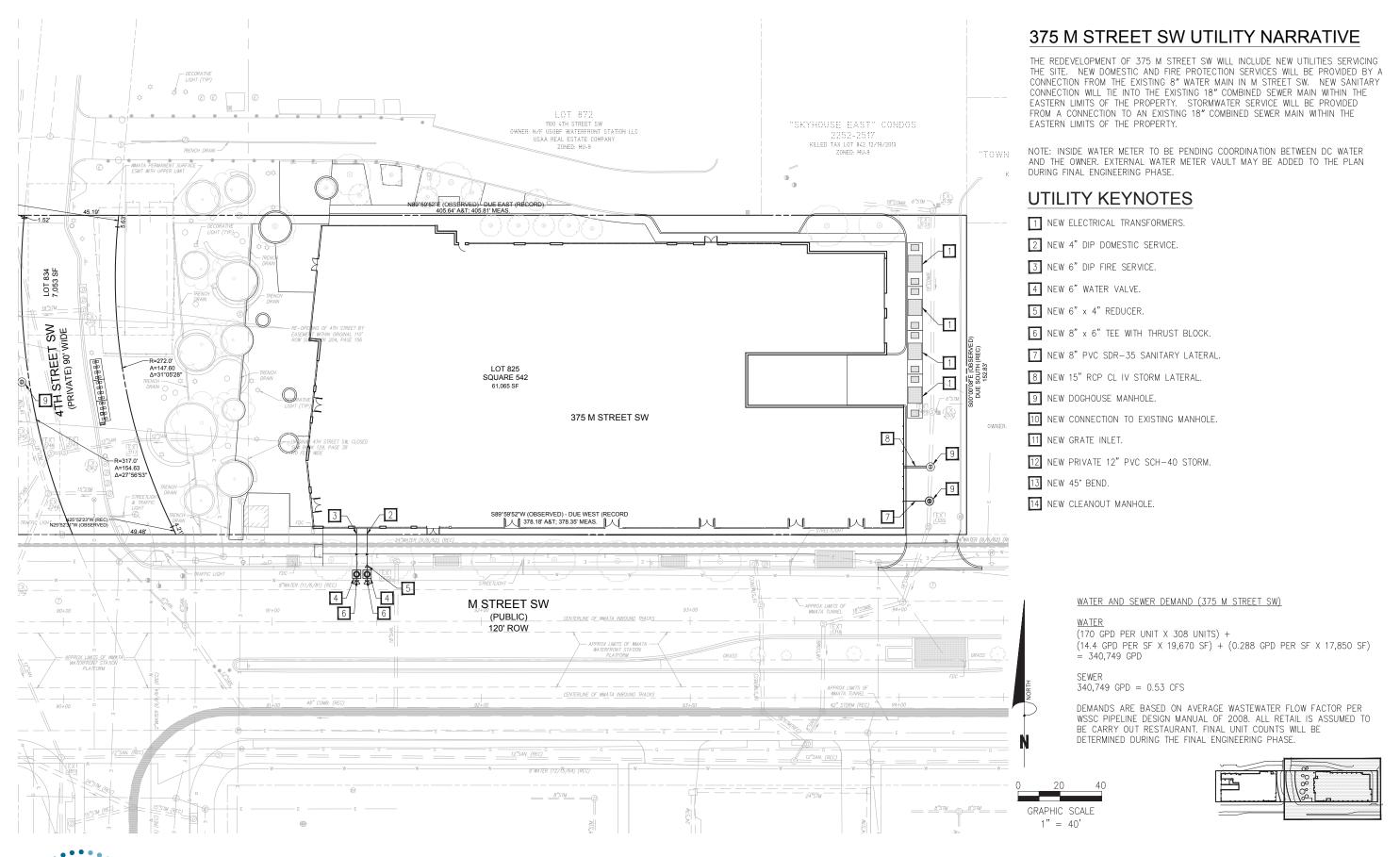






SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - UTILITY PLAN - WEST BLDG (425)





CIVIL - UTILITY PLAN - EAST BLDG (375)

SOUTHEAST + SOUTHWEST M STREET PARCELS

DOEE SOIL EROSION AND SEDIMENT CONTROL PLAN **GENERAL NOTES**

- FOLLOWING INITIAL LAND DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (?) CALENDAR DAYS FOR THE SURFACES OF ALL PERMIETER CONTROLS, DIKES, SWALES, DITCHES, PERMIETER SLOPES, AND SLOPES GREATER HANA THREE (3) HORIZOMITAL TO ONE (1) SMILES, Oliches, Freenick South, and South's Greenick Timen Innec (7) FONDAMINATE, VERTICAL (3:1); AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE. OTHER THAN STOCKPILM, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED, MANITEMANCE SHALL BE PERFORMED AS INCESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (ESC)
- 2. ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND DISTURBANCE.
- CONTACT DOEE INSPECTION (202) 535-2977 TO SCHEDULE A PRECONSTRUCTION MEETING AT LEAST THREE
 BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY.
- 4. A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR
- 5. ESC MEASURES SHALL BE IN PLACE TO STABILIZE AND EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARLY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE DAY, OF EACH DAY OF UNDERSROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER
- STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED
 AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE.
- STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VECETATION, HYDRO-SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION.
- 8. PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION
- REQUEST A DOEE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER EROSION AND SEDIMEN'
 CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- REQUEST A DOSE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF THE SITE AND BEFORE THE REMOVAL OR EROSION AND SEDIMENT CONTROLS.
- 11. FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING CRITERIA HAVE BEEN MET: (1) A UNIFORM (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNAL VECETATIVE COVER WITH A DESIGNITY OF SEVENTY PERCENT (70%) OF THE NATURE BACKGROUND VEGETATIVE COVER FOR THE AREA HAVE BEEN ESTABILISHED ON ALL UMPAVED AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVATENT PERMANENT STRUCTURES, OR (2) EQUIVATED TREMANENT STRUCTURES.
- 12. FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON
- 13. POST A SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DOSE IN THE EVENT OF EROSION OR OTHER POLLUTION. THE SIGN MILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DOSE INSPECTOR, EACH SIGN WILL BE LESS THAN 18 X 24 INCHES IN SIZE AND MADE OF MATERIALS THAT MILL WITHSTAND WEATHER FOR THE DUBATION OF THE PROJECT. LETTERNIC WILL BE AT LEAST INCH IN HEIGH AND EASILY READABLE BY THE PUBLIC FROM A DISTANCE OF THEVELY EFET (12 FT.) THE SIGN MUST DIRECT THE PUBLIC, IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT EROSION, RUNGEF, OR STORNWATER THE PUBLIC, IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT ENDSION, KONOFF, OR STOMMWATER POPULUTION" AND MLL PROVIDE THE CONSTRUCTION ADDRESS, DOES'S TELEPHONE MUBBER (202–535–2977), DOES'S EMAIL ADDRESS, GIEB-SCHEDULINGBOC-GOV), AND THE 311 MOBILE APP HEADING ("CONSTRUCTION"-EROSION RUNOFF").

IF A SITE DISTURBS 5,000 SQUARE FEET OF LAND OR GREATER, THE ESC PLAN MUST CONTAIN THE FOLLOWING STATEMENT.

14. A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND-DISTURBING PHASE. 4. A RESPONSBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND-OISTRIBRING PHASE THE RESPONSBLE PERSON IS CHARGED WITH BEING AVAILABLE OF (A) INSPECT THE SIT AND ITS ESS MEASURES AT LEAST DINCE BIMERRY AND AFTER A RAINFALL EVENT TO DESTITY AND REMEDY EACH POTENTHAL OR ACTUAL EROSION PROBLEM, BESPOND TO EACH POTENTHAL OR ACTUAL EROSION PROBLEM DENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DOCE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM A RESPONSBLE PERSON SHALL BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS OUTLO RECOFFICIENCIAL ENORMY AND AND ASSESSED AS AND SITE WITH DOCE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROPRIEMED AND ASSESSED ASS

STREET SWEEPING

- STREETS WITHIN ONE MILE (1.6km) SHALL BE INSPECTED DAILY, ANY DROPPED SOIL, DUST AND/OR DEBRIS
 SHALL BE REMOVED.
- 2. VACUUM TYPE STREET CLEANER SHALL BE USED TO EFFECTIVELY REMOVE TOTAL DUST AND DIRT ON PAVED SLIBERAGES
- ROADS SHALL BE SWEPT ON A WEEKLY BASIS (MINIMUM) DURING ALL ON AND OFF-SITE HAULING OPERATIONS FOR UP TO ONE MILE.

2.0 STANDARDS AND SPECIFICATIONS FOR STABLIZED CONSTRUCION ENTRANCE WITH WASH RACK

<u>DEFINITION:</u> A STABILIZED LAYER OF AGGREGATE, THAT IS UNDERLAIN WITH GEOTEXTILE CLASS SE ENHANCED BY THE USE OF A WASH RACK. STABILIZED ENTRANCES ARE LOCATED AT ANY POINT WHERE TRAFFIC ENTERS OR LEAVES A CONSTRUCTION STE

<u>PURPOSE</u>: STABILIZED CONSTRUCTION ENTRANCES REDUCE TRACKING OF SEDIMENT ONTO STREETS OR PUBLIC RIGHTS-OF-WAY AND PROVIDE A STABLE AREA FOR ENTRANCE OR EXIT FROM THE CONSTRUCTION SITE.

CONDITIONS WHERE PRACTICE APPLIES: STABILIZED CONSTRUCTION ENTRANCES WITH WASH RACKS SHOULD BE CONSIDERED WHEREVER SOIL AND/OR TRAFFIC CONDITIONS ON SITE REQUIRE WASHING THE CONSTRUCTION VEHICLE WHEELS PRIOR TO EXISTING THE SITE TO AVOID EXCESSIVE TRACKING OF MUD ONTO A HIGHWAY.

STABILIZED CONSTRUCTION ENTRANCES WITH WASH RACKS SHOULD BE CONSTRUCTED TO THE MINIMUM LENGTH WIDTH, AND THICKNESS DIMENSIONS SHOWN ON STANDARD CONSTRUCTION DETAIL 2. A METAL WASH RACK IS AN ACCEPTABLE ALTERNATIVE TO THE REINFORCED CONCRETE ONE SHOWN. APPROACHES TO THE WASH RACK SHOULD BE LINED WITH CRUSHED AGGREGATE (2"-3") ROCK A MINIMUM OF 25' ON BOTH SIDES

STABILIZED CONSTRUCTION ENTRANCES WITH WASH RACKS SHOULD BE MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK MATERIAL SHOULD BE MAINTAINED ON SITE FOR THIS PURPOSE.

SEDIMENT DEPOSITED ON PAYED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. NOTE: WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE WAYS IS NOT ACCEPTABLE UNLESS A SEDIMENT FILTER BED IS INSTALLED IN THE DITCH OR CATCH BASIN.

A STABILIZED CONSTRUCTION ENTRANCE WITHOUT A WASH RACK IS SHOWN ON STANDARD CONSTRUCTION

37.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING

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

<u>PURPOSE:</u> THE PURPOSE OF A LAND GRADING SPECIFICATION IS TO PROVIDE FOR EROSION CONTROL AND VEGETATIVE ESTABLISHMENT ON THOSE AREAS WHERE THE EXISTING LAND SURFACE IS TO BE RESHAPED BY

DESIGN ORITERIA. THE GRADING PLAN SHOULD BE BASED UPON THE INCORPORATION OF BUILDING DESIGNS AND STREET LAYOUTS THAT THAT OUT UTLIZE EXISTING TOPOCRAPHEY AND DESIRABLE NATURAL SURROUGHIGKS TO ANODO SOLIN INVESTIGATIONS TO DETERMINE UNITATIONS THAT MUST BE IMPOSED UPON THE GRADING OPERATION RELATED TO SLOPE STABILITY, EFFECT ON ADJACENT PROPERTIES AND DRAINAGE PATTERNS, MEASURES FOR DRAINAGE AND WATER REMOVAL, AND VECETATION TREATMENT.

THE PLAN MUST SHOW EXISTING AND PROPOSED CONTOURS OF THE AREA(S) TO BE GRADED. THE PLAN SHALL ALSO INCLUDE PRACTICES FOR EROSION CONTROL, SLOPE STABILIZATION, SAFE DISPOSAL OF FUNDOR* WATER AND DRAMAGE, SUCH AS WATERWAY, LINED DITCHES, REVERSE SLOPE BENNES (INCLUDE GRADE AND GRADE AND CROSS-SECTION), GRADE STABILIZATION STRUCTURES, RETAINING WALLS, AND SURFACE AND SUBSURFACE DRAINS. THE PLAN SHALL ALSO INCLUDE PHASING OF THESE PRACTICES. THE FOLLOWING SHALL BE INCOMPORATED INTO

ISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE RUNOFF TO STORM DRAINS, PROTECTED OUTLETS STABILIZE WATER COURSES TO INSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER

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 MOWED THE SLOPE SHOULD BE NO STEEPER THAN 3:1, 4:1 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES, SLOPES EXCEDING 2:1 SHALL REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATIONS THAT SHALL BE ADEQUARELY SHOWN ON THE PLANS.

3. REVERSE BENCHES SHALL BE PROVOED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 2:1 SLOPE EXCEDS 20 FEET; FOR 3:1 SLOPE IT SHALL BE INCREASED TO 30 FEET AND FOR 4:1 TO 40 FEET BENCHES SHALL BE LOCATED TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSEE AND SHALL CONNEY THE WATER TO A STABLE QUILET. SOLLS, SEEPS, ROCK OUTGROPS, ETC., SHALL ALSO BE TAKEN INTO CONSIDERATION WHEN DESCHING BENCHES.

- A. BENCHES SHALL BE A MINIMUM OF SIX-FEET WIDE TO PROVIDE FOR EASE OF MAINTENANCE.
- B. BENCHES SHALL BE DESIGNED WITH A REVERSE SLOPE OF 6:1 OR FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF ONE FOOT IN DEPTH. BENCH GRADIENT TO THE OUTLET SHALL BE BETWEEN 2 PERCENT AND 3 PERCENT, DURESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS.
- C. THE FLOW LENGTH WITHIN A BENCH SHALL NOT EXCEED 800' UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS. FOR FLOW CHANNEL STABILIZATION, SEE TEMPORARY SWALE.

4. SURFACE WATER SHALL BE DIVERTED FROM THE FACE OF ALL CUT AND/OR FILL SLOPES BY THE USE OF EARTH DIKES, DITCHES AND SWALES OR CONVEYED DOWNSLOPE BY THE USE OF A DESIGNED STRUCTURE, EXCEPT

- 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.
- B. THE FACE OF THE SLOPE SHALL NOT BE SUBJECT TO ANY CONCENTRATE FLOWS OF SURFACE WATER SUCH AS FROM NATURAL DRAINAGEWAYS, GRADED SWALES, DOWNSPOUTS, ETC.

C. THE FACE OF THE SLOPE WILL BE PROTECTED BY SPECIAL EROSION CONTROL MATERIALS, TO INCLUDE, BUT NOT LIMITED TO: APPROVED YEGETATIVE STABILIZATION PRACTICES (SEE SECTION G), RIP—RAP OR OTHER APPROVED STABILIZATIONS METHODS.

5. CUT SLOPES OCCURRING IN RIPABLE ROCK SHALL BE SERRATED AS SHOWN IN DETAIL 70 (WATERSHED ON SOURCES OCCURRENCE IN METABLE MOUNT SHALL BE SERRATED AS SHOWN IN DETAIL 70 (WATERSHED PROTECTION DUISON, DISTRICT OF COLUMBIA DEPARMENT OF HEALTH, PAGE 1-37-5), SERRATED SLOPES ON THE FOLCOWING DIAGRAM. THESE SERRATIONS SHALL BE MORE WITH CONVENTIONAL EQUIPMENT AS THE EXCAVATION IS MADE. EACH STEP OF SERRATION SHALL BE CONSTRUCTED ON THE CONTOUR AND WILL HAVE STEPS LATE AND MAIL TWO-FOOT INTERVALS WITH NOWINAL THREE-FOOT HORIZONTAL, SHELVES, THESE STEPS WILL VARY DEPENDING ON THE SLOPE RATIO OF THE CUTT SLOPE. THE NOWINAL SLOPE LINE IS:15.1 THESE STEPS WILL WEATHER AND ACT TO HOLD DISTRIEL LINE, FERTILIZER AND SEED THUS PRODUCING A MUCH QUICKER AND LICENSE NUMBER OF METABLE STEPS WILL WEATHER AND ACT TO HOLD WOSTUME, LINE, FERTILIZER AND SEED THUS PRODUCING A MUCH QUICKER AND CHORE NUMBER OVERTAINED OF AND BETTER SLOPE STABULZATION. OVERLAND FLOW SHALL BE DIVERTED FROM THE TOP OF ALL SERRATED CUT SLOPES AND CARRIED TO A SUITABLE OUTLET.

6. SUBSURFACE DRAINAGE SHALL BE PROVIDED WHERE NECESSARY TO INTERCEPT SEEPAGE THAT WOULD OTHERWISE ADVERSELY AFFECT SLOPE STABILITY OR CREATE EXCESSIVELY WET SITE CONDITIONS.

7. SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATELY PROTECTING SUCH PROPERTIES AGAINST SEDIMENTATION, EROSION, SUPPAGE, SETTLEMENT SUBSIDENCE OF OTHER RELATED DAMAGES.

8. FILL MATERIAL SHALL BE FREE OF SNOW, ICE, FROZEN MATERIALS, TRASH, BRICK, CLAY LUMPS, HAZARDOUS MATERIAL, BROKEN CONDERTE, TREE ROOTS, SOO, ASHES, CONDERS, CLASS, PLASTER, ORGANIC MATTER, BRUNK, LOGS, STUMPS, BUILDING DEBRIS, AND ANY OTHER FORSIGN MATERIAL TS HOULD BE FREE OF STONES OVER 2 INCHES IN DIAMETER WHERE COMPACTED BY HAND OR MECHANICAL TAMPERS OR OVER 8 INCHES IN DIAMETER WHERE COMPACTED BY ROLLERS OR OTHER EQUIPMENT, FROZEM MATERAL SHALL NOT BE PLACED IN THE FILL NOR SHALL THE FILL MATERIAL BE PLACED ON A FROZEN FOUNDATION.

9. STOCKPILES, BORROW AREAS, AND SPOIL SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE

10. ALL DISTURBED AREAS SHALL BE STRUCTURALLY OR VEGETATIVELY IN COMPLIANCE WITH 42.0 STANDARDS AND

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

<u>DEFINITION:</u> 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 MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL

CONDITIONS WHERE PRACTICE APPLIES

- 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
- 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.
- C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH
- D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 THAN 2:1 STABILIZATION AREAS HAVING SLOPES STEEPER THAN 2:1 STABILIZATION STANDARD AS THE PLANS

CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL 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 TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED IN THE NRCS DISTRICT OF COLUMBIA SOIL SURVEY MANUAL

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

I. A TOPSOL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND.
OTHER SOLS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOLL SCIENTIST AND APPROVED BY THE
MATERSHEP PROJECTION DYNORN, RECARDLESS, TOPSOLL SHALL NOT BE A MIXTURE OF CONTRACTING
TEXTIRED SUBSOLL AND SHALL CONTINUESS THAN 58 BY YOULDE OF DOISHOES, STONES, SLAG, COARSE
FRANGATIST, GRAVEL, STOCKS, RODS, TRASH, OR OTHER MATERIALS LARGER THAN 1 TJC MICHES IN DUMBETER.

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS. JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OTHER POISONOUS PLANTS OR OTHERS AS SPECIFIED.

III. WHERE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 LBS/1,000 SF) PRIOR TO THE PLACEMENT OF LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DISIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL (CONT'D)

- III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
- i. 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:

i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

- a. 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.
- b. ORGANIC CONTENT OF TOPSOIL SHALL NOT BE LESS THAN 1.5% BY WEIGHT.
- c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MINIMUM) TO PERMIT DISSPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE WATERSHED PROTECTION AGENCY, MAY BE USED IN-LIEU OF NATURAL TOPSOIL.

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 42.0 VEGETATIVE STABILIZATION — SECTION I — VEGETATIVE STABILIZATION METHOD AND MATERIALS.

V TOPSOIL APPLICATION

i. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-6" HIGHER IN ELEVATION.

iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4", SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMULY OF ADDITIONAL SOLI PERPARATION AND THALGE. ANY INFECULARIES IN THE SURFACE RESULTING FROM TOPSOLING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF OPPRESSIONS OR WATER POCKETS.

VI. ALTERNATIVE FOR PERMANENT SEEDING — INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW: ILICIAEN, COMPOSIEU SUDICE AND AMERICANDEN'S MAIN SE APPICEUR S SEVENTED SECURITIES SECURITIES.

I. COMPOSIEUS SUDICE MATERIAE FOR USE AS A SOLIC CONDITIONER FOR SITES HAWNG DISTURBED AREAS OVER S ACRES SHALL BE TESTED TO THE PRESCRIBE AMENDMENTS AND FOR SITES HAWNG DISTURBED AREAS UNDER 5 ACRES SHALL DONOROM TO THE FOLLOWING REQUIREMENTS:

COMPOSTED SLIDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISTION OF THE COMPOST) BY EITHER THE STATE OF MARYLAND OR THE STATE OF MARYLAND OR THE STATE OF MARYLAND OR THE STATE OF THE STATE OF MARYLAND OR THE STATE OF THE STATE

b. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1.0% NITROGEN, 1.5% PHOSPHOROUS, AND 0.2% POTASSIUM, AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST DE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SF. II. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LBS/1,000 SF AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1, COOPERATIVE EXTENSIVE SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES, REVISED 1973.

42.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

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. III. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES.

B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

I. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIONS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES, SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF THE DISTRICT OF COLUMBAG OR A CEPTIFIED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

II. FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION AND APPROVED COUPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL ATHORITY, FERTILIZERS SHALL ALL BE DELIVERED TO THE STE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMAKE, AND WARRANIEE OF THE PRODUCER.

III. LINE MATERIALS SHALL BE GROUND LINESTONE (HYDRATED OR BURNT LINE MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL. OXIDES (CALCIUM OXIDE PLUS MAGNESUM OXIDE), LINESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SEVE AND 98-100% WILL PASS THROUGH A #20 MESH SEVE

iv. Incorporate lime and fertilizer into the top 3*-5" of soil by disking or other suitable means C. SEEDBED PREPARATION

- ON SERIEDE PEPRARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3" TO 5" BY MEANS OF SUITABLE ADRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HAPRONDS OR CHEST, PICHOS OR PEPPERS MOUNTED ON CONSTRUCTION EQUIPMENT AFTER THE SOIL IS, LOOSENED, IT SHOULD NOT BE ROLLED OF DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION, SLOPED AREAS (OREATER THAN 3:1) SHOULD BE TRACKED LEAVING THE SHAPE OF THE SLOPE.
- b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
- c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3" 5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- a. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT: 1. SOIL pH SHALL BE BETWEEN 6.0 AND 7.0
- 2. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM).
- 3. THE SOIL SHALL CONTAIN LESS THAIN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY OF HOLD A WORKER AND EXCEPTION IS IF LOVEGRASS OR SERECIA LESPEDZA IS TO BE PLANTED, THAIN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD FINE CAPACITY OF HOLD AND CAPACITY OF WORKER AND EXCEPTION IS IF LOVEGRASS OR SERECIA LESPEDZA IS TO BE PLANTED, THAIN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD FINE CAPACITY OF THE CAPACITY
- 4. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT. 5 SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- 6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON-SITE, ADDING TOPSOIL IS REQUIRED IN 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 SCARIFED OR OTHERWISE LOOSENED TO A DEPTH OF 3"-5" TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREA AND TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN A SLOPE.
- c. APPLY SOIL AMENDMENTS AS PER SOIL TEST OR AS INCLUDED ON THE PLANS.
- C. MIX SOIL AMENDMENTS INTO THE TOP 3"-5" OF TOPSOIL BY DISKING OR OTHER EVANS.

 C. MIX SOIL AMENDMENTS INTO THE TOP 3"-5" OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN
 ARRAS SHOULD BE RARED TO SMOOTH THE SURFACE, REMOVE LARGE CORLECTS LIKE STONES AND BRANCHES,
 AND READY THE ABER FOR SEED APPLICATION, WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED
 PREPARATION, LOOSEN SUPRACE SOIL BY PRAGRAMS WITH A HEAVY CHAIN OR OTHER EXPINIENT TO ROUGHEN
 THE SURFACE. STEEP SLOPES (STEEPES THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN MIRREGULAR CONDITION WITH ROBES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1"-5" OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.

42.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION (CONT'D)

I. ALL SEED MUST MEET THE REQUIREMENTS OF THE DISTRICT OF COLUMBIA DPW STANDARD AND SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES AND SPECIFICATION 4.2.0 VECETATIVE STABILIZATION. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY, ALL SEED USED SHALL HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOMING SUCH MATERIAL ON THIS JOB.

NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED. II. INCOLLANT — THE INCOLLANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-PIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INCOLLANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INCOLLANT AS DIRECTED ON PACKAGE, USE FOUR THIS STHE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INCOLLANT LESS COCK. AS POSSIBLE UNTIL USED. ITEMPERATURES ABOVE 75-BOY FOR WARCHE BACTERIA AND MAKET THE NOCULANT LESS EFFECTIVE.

E. METHODS OF SEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER), BROADCAST OR DROP SEEDER, OR A CULTIPACKER SEEDER.

i. HYDROSEEDING: a. IF FERRILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING. NITROCEN; MAXIMUM OF 100 LBS PER AGRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS): 200 LBS/AC; K20 (POTA/SSUI): 220 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 HYDRATED LIME WHEN HYDROSEFINING.

c. SEED AND FERTILIZER SHALL BE MIXED ON-SITE AND SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION

II. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

a. SEED SPREAD DRY SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE TEMPORARY OR PERMANENT SEEDING SUMMARIES OR TABLES 42 OR 43. THE SEEDED 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. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IS SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDED 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 DIRECTION. F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)

I. STRAW SHALL CONSTS OF THOROUGHLY THRESHED WHEAT, RYE, OR OAT STRAW, REASONABLY BRIGHT IN COLOR, AND SHALL NOT BE MUSTY, MCDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFED BY THE NICS SEED LAW.

NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. # WOOD CELLULOSE FIRER MULCH (WCFM)

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.

:. WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

d. Wor'n Materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch mil remain in uniform suspension in water under agitation and will below with seed, fertilized formation that will be to form a homogeneous submit the mulch material shall form a blotter-like ground cover, on application, having mostines absorbition and percolation properties and shall cover and hold grass seed in contact with the solu window their growth of the grass seedons.

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 TO APPROXIMATELY 10 MM., DIAMETER APPROXIMATELY 1 MM., PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM AND WATER HOLDING CAPACITY OF 90%

G. MULCHING SEEDED AREAS - MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. I. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS AND SEEDING CAN BE PERFORMED IN ACCORDANCE WITH

II. WHEN STRAM WULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE, MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1" AND 2", MULCH APPLIED SHALL ACHIEVE A UNIFORM DISTIBILITION AND DEPTH SO THAT THE SOIL SUPFACE IS NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED, THE RATE SHOULD BE INCREASED TO 2.5 TONS/ACRE.

II. WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. THE WOOD SELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS OF WOOD SELLULOSE FIBER PER 100 GALLONS OF WATER.

H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMAZE LOSS BY WIND OR WATER. THIS WAY BE DONE BY ONE OF THE FOLLOWING METHODS (USTED BY PREFERENCE), DEPENDING ON THE SIZE OF AREA AND EROSIGN HAZARD. I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SOLPES SWEERE EQUIPMENT CAN OPERATE SERVEY. IF USED ON SUPPINE LAND, INTERPRACTICE SHOULD BE USED ON THE CONTOUR IF

ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT

OF 750 LBS/ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. IN SOLDS OF WOOD CENTED TO CONTINUE TO CONTINUE AND AN ARTER. IN CALCIFIC SHIP OF THE MAN OF A CONTINUE AND ON CRESTS OF BANKS. THE REMAINDER OF AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION, SYNTHETIC BRIDGERS — SUCH AS ACRYLIC DUR (AGRO—TACK), DCA—70, PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH.

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.

VEGETATION — ANNUAL GRASS OR GRAIN USED TO PROVIDE COVER ON DISTURBED AREAS FOR UP TO 12 MONTHS. FOR LONGER DURATION OF VEGETATIVE COVER, PERMANENT SEEDING IS REQUIRED. SEED MIXTURE (HARDINESS ZONE 7A)
FROM TABLE 43
NO. SPECIES APPLICATION SEED FERTILIZER LIME RATE APPLICATION SEEDING SEEDING (10-10-10) RATE (lb/ac) DATES DEPTHS 150 2/1-4/30 5/1-8/30 8/15-11/30 600 lb/ac 2 tons/ac (14 lb/1000 sf) 2 tons/ac (92 lb/1000sf) WEEPING LOVEGRASS 5/1-8/14

SECTION III - PERMANENT SEEDING

SECTION II - TEMPORARY SEEDING

	SEED MIXTURE (HARDINESS ZONE 7A) FERTILIZER RATE (10–20–20)								
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	N	P205	K20		
	TALL FESCUE (85%)	125	7/4 5/45		90 lb/oc	175 lb/oc	175 lb/ac	2 tons/ac	
	PERENNIAL RYEGRASS (10%)	Lare so (rong)		1/4" MIN. 2" MIN.	(2.0 lb/ 1000 sf)	(4 lb/ 1000 sf)	(4 lb/ 1000 sf)	(92 lb/ 1000 sf)	
	KENTUCKY BLUEGRASS (5%)	10	8/13-11/13	Z MIN.					

42.0 STANDARDS AND SPECIFICATIONS FOR **VEGETATIVE STABILIZATION (CONT'D)**

SECTION IV - SOD: TO PROVIDE DIJICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER) A. GENERAL SPECIFICATIONS

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.

II. SOD SHALL BE MACHINE OUT AT A UNIFORM SOIL THICKNESS OF 3/4", PLUS OR MINUS 1/4", AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS SHALL EXCLUDE TO PROWITH AND THATCH, INDIVIDUAL PIECES OF SOD SHALL BE CUIT TO THE SUPPLIERS WIDTH AND LENGTH, MAXIMUM ALLOWABLE DEVARION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5%. BROKEN PADS AND TOTH OF UNEVER BOS 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 10X OF THE SECTION.

SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY

v. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

SECTION V - TURFGRASS ESTABLISHMENT

AREAS WHERE TURFORASS MAY BE JESSIED NILLUE LANNE, PARKS, PLAYGOOUDE, AND COMBERCHAL STEEN WHICH MILL RECEIVE YELEBOUR TO HER LEGG. OF ANYTHORNOCE AREAS TO RECEIVE SEED SAND STEEN AND ANY THE AREAS TO RECEIVE SEED SAND AND ANY THE AREAS TO REPEARE A PROPER SEEDED. STORES AND DEBMS OVER 1 1/2 INCHES TO MOMENTE SHALL BE REMOVED. THE RESULTING SEEDED SHALL BE IN SUCH CONDITION THAT FUTURE MOMING OF GRASSES WILL POSK NO DIFFROUNT.

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 RATE: 1.5 TO 2.0 LBS/1,000 SF. A MINIMUM OF THREE BLUEGRASS CULTIVARS SHOULD BE CHOSEN RANGING FROM A MINIMUM OF 10% TO A MAXIMUM OF 35% OF THE MIXTURE BY WEIGHT.

ii. KENTUCKY BLUEGRASS/PERENNIAL RYE - FULL SUN MIXTURE - FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUGGRASS SEEDING
RATE: 2 LBS. MIXTURE/1,000 SF. A MINIMUM OF 3 KENTUCKY BLUGGRASS CULTIVARS MUST BE
CHOSEN. WITH EACH CULTIVAR RANGING FROM 10% TO 35% OF THE MIXTURE BY WEIGHT iii. TALL FESCUE/KENTUCKY BLUEGRASS - FULL SUN MIXTURE - FOR USE IN DROUGHT PRONI

III. INCL. PESCUE/CRENI CALL BLUESMESS — FULL SOM MINDRE — FOR DES IN DOCUMENT PAGE AREAS AND/OF RAREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE: INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95—100%, CERTIF KENTUCKY BLUEGRASS CULTIVARS 0-5%. SEEDING RATE: 5 TO 8 LB/1,000 SF. ONE OR MORE CULTIVARS MAY BE BLENDED. IV. KENTUCKY BLUEGRASS,/FINE FESCUE — SHADE MIXTURE — FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTERVIELY MANAGEMENT TURF AREA. MIXTURE INCLUES, CERTIFIER KINTUCKY BLUEGRASS. CULTIVARS 30-407 AND CERTIFIED FINE FESCUE 60-70%. SEEDING RATE: 1 1/2 — 3 LBS/1,000 SF. A MINIMUM OF 3 KENTUCKY BLUEGRASS CULTIVARS AND MAST BE CHÓSEN, WITH EACH CULTIVAR RANGING FROM A MINIMUM OF 10% TO A MAXIMUM OF 30% OF THE MIXTURE BY MEIGHT.

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

44.0 STANDARDS AND SPECIFICATIONS FOR

DEFINITION: CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY. CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AN OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS: A. MULCHES — SEE STANDARDS FOR CRITICAL AREA STABLIZED WITH MULCHES ONLY. CHEMICAL OR WOOD CELLULOSE FIBER BINDERS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL.

B. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.

C. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC

	DILUTION	NOZZLE	GALLONS/AC
ANIONIC ASPHALT EMULSION LATEX EMULSION	7:1 12.5:1	COARSE SPRAY FINE SPRAY	1,200 235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

D. TILLAGE — TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENC MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLE OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

E. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST, REPEAT AS NEEDED.

F. BARRIERS — SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS AND SMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING. G. CALCIUM CHLORIDE - APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

REFERENCES:

A. PERMANENT VEGETATION — SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOOL EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

B. TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIALS, SEE STANDARDS FOR TOPSOILING

1. AGRICULTURAL HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USE IN PREDICTING SOIL LOSS. 2. AGRICULTURAL INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION, USDA-ARS

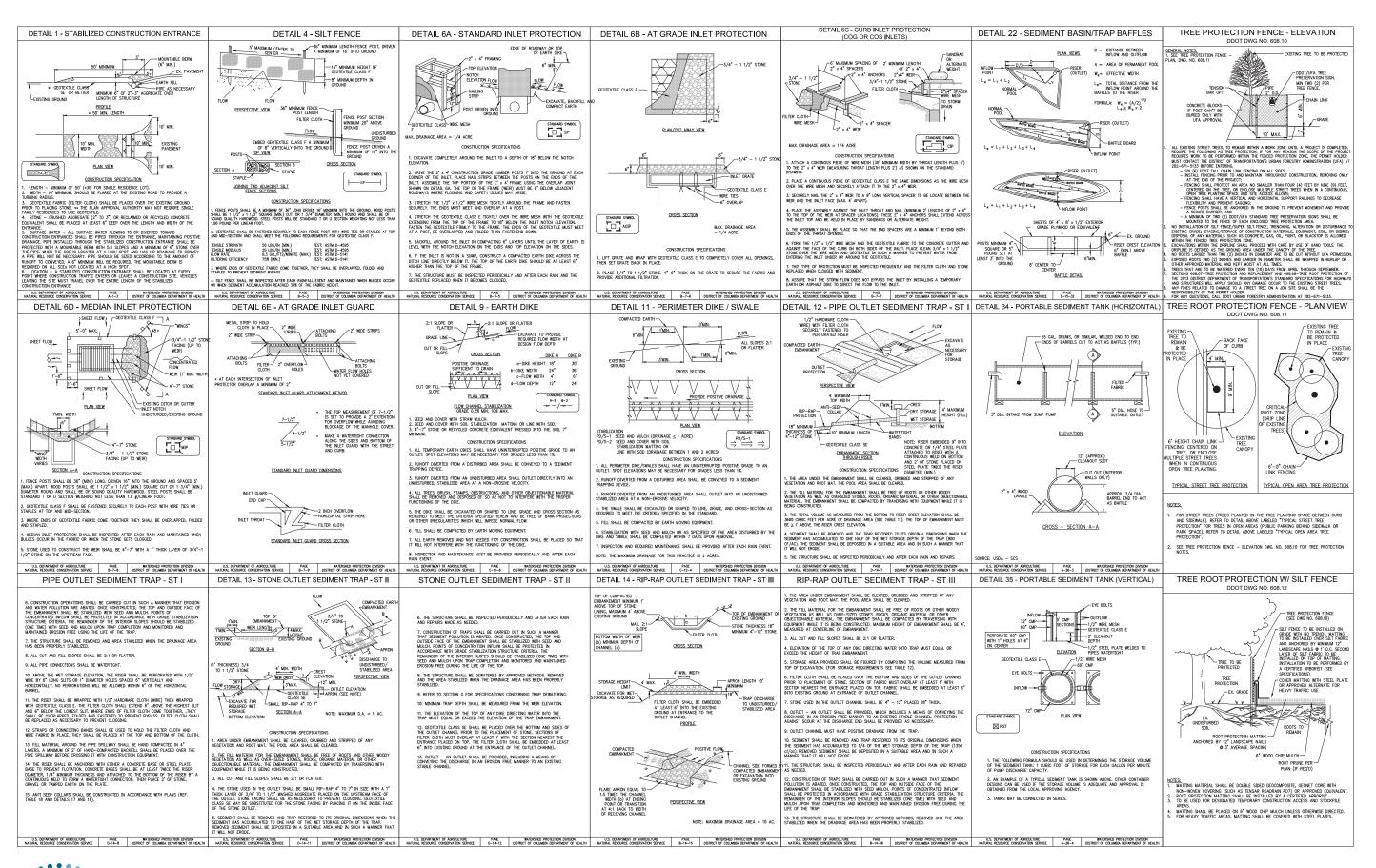
WATERFRONT FIRST-STAGE PUD MODIFICATION & SECOND-STAGE PUD APPLICATION

SOUTHEAST + SOUTHWEST M STREET PARCELS

Perkins Eastman DC

Bowman

CIVIL - EROSION AND SEDIMENT CONTROL NOTES



WATERFRONT

CIVIL - EROSION AND SEDIMENT CONTROL DETAILS

Bowman

SOUTHEAST + SOUTHWEST M STREET PARCELS

STORMWATER MANAGEMENT NARRATIVE:

ACCORDING TO THE 2013 SWM GUIDEBOOK FOR THE DISTRICT OF COLUMBIA, THIS PROJECT SITE DEVELOPMENT IS CATEGORIZED AS A "MAJOR LAND DISTURBANCE" FOR THE ENTIRETY OF THE BUILDING FOOTPRINT, THUS REQUIRING A STORMWATER RETENTION VOLUME (SWRV) BASED ON THE 1.2" STORM EVENT. IN ADDITION TO THE RETAINED VOLUME, THE SWM FACILITIES MUST PROVIDE 15-YR STORM CONTROL FOR PEAK DISCHARGE TO THE PRE-PROJECT RATE.

SITE AREA DISTURBED = 46.940 sfREQUIRED SWRV = 4.459 cf

THE SWRV REQUIREMENT IS ACHIEVED BY THE DESIGN AND IMPLEMENTATION OF GREEN ROOF. THE RUNOFF FROM THE EXISTING BUILDING IS ROUTED DIRECTLY TO GREEN ROOF AREAS FOR TREATMENT. ADDITIONALLY, THE DETENTION REQUIREMENT WILL BE MET THROUGH A COMBINATION OF GREEN ROOF AND DETENTION VAULT. THE STORAGE CAPACITY OF THESE FACILITIES ARE SIZED TO ATTENUATE THE 2-YR STORM PEAK DISCHARGE BACK TO PRE-DEVELOPMENT CONDITION AND THE 15-YR STORM PEAK DISCHARGE BACK TO PRE-PROJECT CONDITIONS.

DESIGN CRITERIA IS BASED OFF THE DISTRICT'S 2013 SWM GUIDEBOOK FOR GREEN ROOF.

STORMWATER MANAGEMENT EXEMPTIONS:

CHAPTER 21 DCMR : 517

THE FOLLOWING DEVELOPMENT ACTIVITIES SHALL BE EXEMPT FROM THE PROVISIONS OF THE STORM WATER MANAGEMENT REQUIREMENTS:

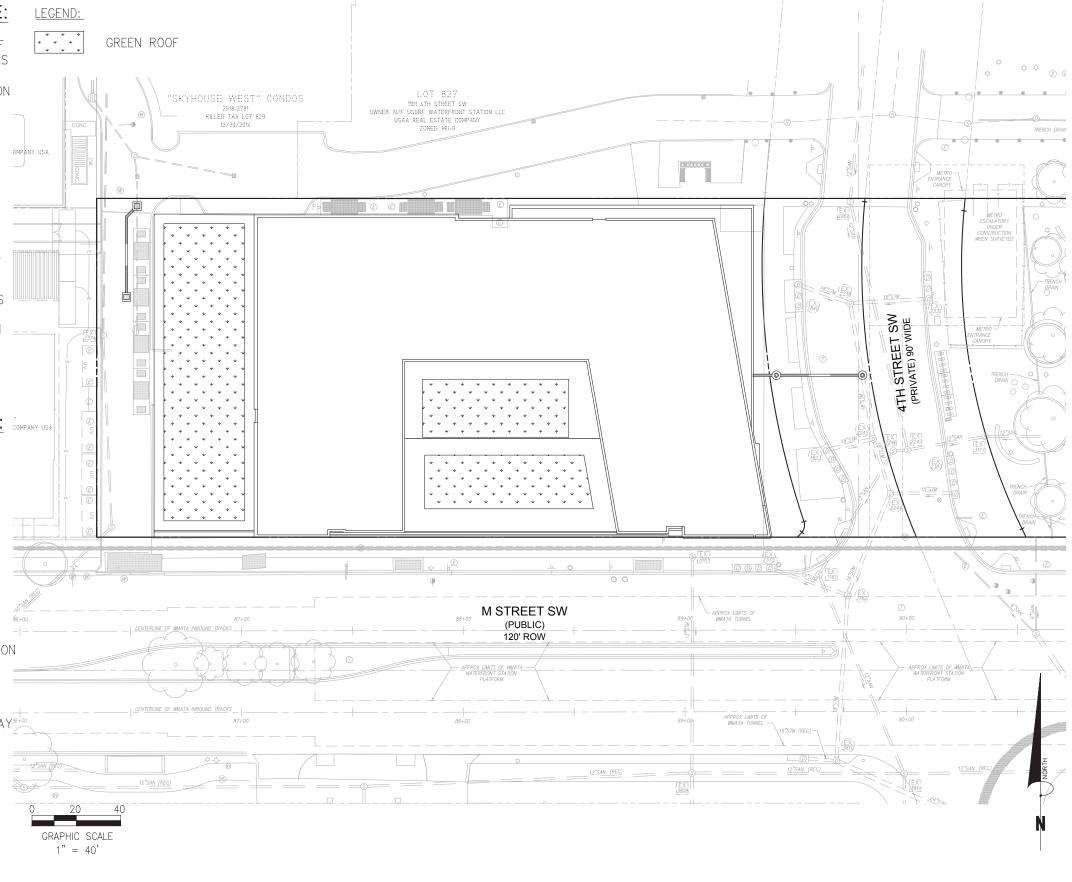
- CUTTING A TRENCH FOR UTILITY WORK AND RELATED REPLACEMENT OF SIDEWALKS AND RAMPS
- REPAVING OR REMILLING THAT DOES NOT EXPOSE THE UNDERLYING SOIL.

GREEN ROOF PROVIDED:

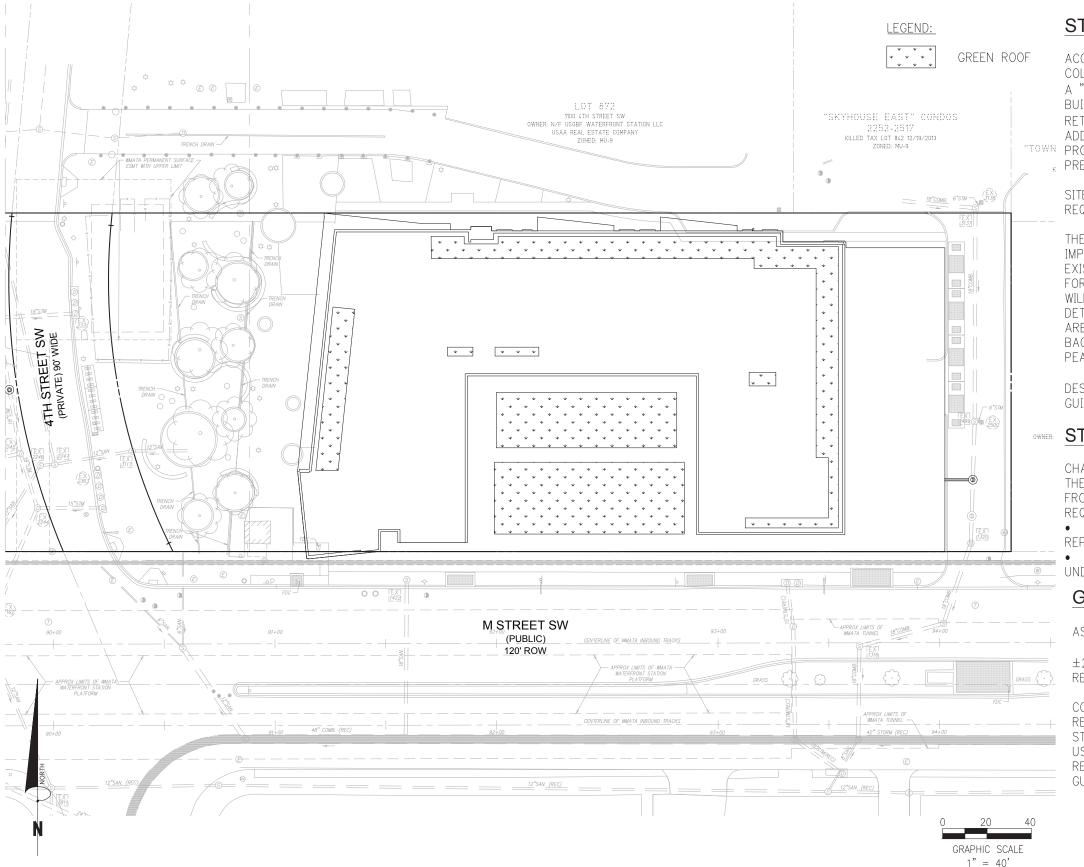
ASSUMED 6" GREEN ROOF AT 0.50 POROSITY

 $\pm 17,900$ sf OF 6" GREEN ROOF IS REQUIRED TO MEET RETENTION REQUIREMENTS.

CONCEPTUAL STORMWATER MANAGEMENT PROVIDED FOR PUD REVIEW ONL. DURING THE FINAL ENGINEERING PHASE, STORMWATER MANAGEMENT DESIGN WILL BE ADVANCED AND MAY 36+00 USE OTHER METHOD WHICH WILL PROVIDE THE REQUIRED RETENTION TO BE IN ACCORDANCE WTIH THE 2013 SWM GUIDEBOOK FOR THE DISTRICT OF COLUMBIA.







STORMWATER MANAGEMENT NARRATIVE:

ACCORDING TO THE 2013 SWM GUIDEBOOK FOR THE DISTRICT OF COLUMBIA, THIS PROJECT SITE DEVELOPMENT IS CATEGORIZED AS A "MAJOR LAND DISTURBANCE" FOR THE ENTIRETY OF THE BUILDING FOOTPRINT, THUS REQUIRING A STORMWATER RETENTION VOLUME (SWRV) BASED ON THE 1.2" STORM EVENT. IN ADDITION TO THE RETAINED VOLUME, THE SWM FACILITIES MUST "TOWN PROVIDE 15-YR STORM CONTROL FOR PEAK DISCHARGE TO THE PRE-PROJECT RATE.

SITE AREA DISTURBED = 61,063 sf REQUIRED SWRV = 5,801 cf

THE SWRV REQUIREMENT IS ACHIEVED BY THE DESIGN AND IMPLEMENTATION OF GREEN ROOF. THE RUNOFF FROM THE EXISTING BUILDING IS ROUTED DIRECTLY TO GREEN ROOF AREAS FOR TREATMENT. ADDITIONALLY, THE DETENTION REQUIREMENT WILL BE MET THROUGH A COMBINATION OF GREEN ROOF AND DETENTION VAULT. THE STORAGE CAPACITY OF THESE FACILITIES ARE SIZED TO ATTENUATE THE 2-YR STORM PEAK DISCHARGE BACK TO PRE-DEVELOPMENT CONDITION AND THE 15-YR STORM PEAK DISCHARGE BACK TO PRE-PROJECT CONDITIONS.

DESIGN CRITERIA IS BASED OFF THE DISTRICT'S 2013 SWM GUIDEBOOK FOR GREEN ROOF.

STORMWATER MANAGEMENT EXEMPTIONS:

CHAPTER 21 DCMR : 517

THE FOLLOWING DEVELOPMENT ACTIVITIES SHALL BE EXEMPT FROM THE PROVISIONS OF THE STORM WATER MANAGEMENT REQUIREMENTS:

- CUTTING A TRENCH FOR UTILITY WORK AND RELATED REPLACEMENT OF SIDEWALKS AND RAMPS
- REPAVING OR REMILLING THAT DOES NOT EXPOSE THE UNDERLYING SOIL.

GREEN ROOF PROVIDED:

ASSUMED 6" GREEN ROOF AT 0.50 POROSITY

±23,200 sf OF 6" GREEN ROOF IS REQUIRED TO MEET RETENTION REQUIREMENTS.

CONCEPTUAL STORMWATER MANAGEMENT PROVIDED FOR PUD REVIEW ONL. DURING THE FINAL ENGINEERING PHASE, STORMWATER MANAGEMENT DESIGN WILL BE ADVANCED AND MAY USE OTHER METHOD WHICH WILL PROVIDE THE REQUIRED RETENTION TO BE IN ACCORDANCE WTIH THE 2013 SWM GUIDEBOOK FOR THE DISTRICT OF COLUMBIA.

SOUTHEAST + SOUTHWEST M STREET PARCELS

CIVIL - STORMWATER MANAGEMENT PLAN - EAST BLDG (375)



LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: 425 M St SW

6 0 0 Innovation

51 37 40 TOTALS

Date: 3/23/16

Integrative Process

11	3	18	Loca	tion and Transportation	16
		16	Credit	LEED for Neighborhood Development Location	16
1			Credit	Sensitive Land Protection	1
		2	Credit	High Priority Site	2
4	1		Credit	Surrounding Density and Diverse Uses	5
5			Credit	Access to Quality Transit	5
	1		Credit	Bicycle Facilities	1
	1		Credit	Reduced Parking Footprint	1
1			Credit	Green Vehicles	1

6	2	2	Susta	inable Sites	10
Υ			Prereq	Construction Activity Pollution Prevention	Required
1			Credit	Site Assessment	1
		2	Credit	Site Development - Protect or Restore Habitat	2
1			Credit	Open Space	1
1	2		Credit	Rainwater Management	3
2			Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction	1

4	1	6	Wate	r Efficiency	11
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Υ			Prereq	Building-Level Water Metering	Required
1	1		Credit	Outdoor Water Use Reduction	2
2		4	Credit	Indoor Water Use Reduction	6
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

12	16	7	Energ	gy and Atmosphere	33
Υ			Prereq	Fundamental Commissioning and Verification	Required
Υ			Prereq	Minimum Energy Performance	Required
Υ			Prereq	Building-Level Energy Metering	Required
Υ			Prereq	Fundamental Refrigerant Management	Required
6			Credit	Enhanced Commissioning	6
4	12	4	Credit	Optimize Energy Performance	18
	1		Credit	Advanced Energy Metering	1
	2		Credit	Demand Response	2
		3	Credit	Renewable Energy Production	3
	1		Credit	Enhanced Refrigerant Management	1
2			Credit	Green Power and Carbon Offsets	2

2	6	5	Mater	ials and Resources	13
Υ			Prereq	Storage and Collection of Recyclables	Required
Υ			Prereq	Construction and Demolition Waste Management Planning	Required
	3	2	Credit	Building Life-Cycle Impact Reduction	5
	1	1	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
	1	1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1	1	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2			Credit	Construction and Demolition Waste Management	2

7	7	2	Indoo	r Environmental Quality	16
Υ			Prereq	Minimum Indoor Air Quality Performance	Required
Υ			Prereq	Environmental Tobacco Smoke Control	Required
2			Credit	Enhanced Indoor Air Quality Strategies	2
1	2		Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
	2		Credit	Indoor Air Quality Assessment	2
1			Credit	Thermal Comfort	1
1	1		Credit	Interior Lighting	2
	2	1	Credit	Daylight	3
		1	Credit	Quality Views	1
1			Credit	Acoustic Performance	1

5			Credit	Innovation	5			
1			Credit	LEED Accredited Professional	1			
			•					
2	2	0	Regio	Regional Priority 4				
			1109.0	nai i noncy	•			
1			Credit	Regional Priority: Access to Quality Transit	1			
1				•	1			
1 1	1		Credit	Regional Priority: Access to Quality Transit	1 1 1			

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1			Credit	Regional Priority: Access to Quality Transit	1
1			Credit	Regional Priority: Green Vehicles	1
	1		Credit	Regional Priority: Reduced Parking Footprint	1
	1		Credit	Regional Priority: Rainwater Management	1
			•		

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110



LEED SCORECARD - WEST BLDG (425)

Possible Points: 110



LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: 375 M St SW

6 0 0 Innovation

51 37 40 TOTALS

Date: 3/23/16

Y ? N

1 Credit Integrative Process 1

11	3	18	Loca	tion and Transportation	16
		16	Credit	LEED for Neighborhood Development Location	16
1			Credit	Sensitive Land Protection	1
		2	Credit	High Priority Site	2
4	1		Credit	Surrounding Density and Diverse Uses	5
5			Credit	Access to Quality Transit	5
	1		Credit	Bicycle Facilities	1
	1		Credit	Reduced Parking Footprint	1
1			Credit	Green Vehicles	1

6	2	2	Sustainable Sites		10
Υ			Prereq	Construction Activity Pollution Prevention	Required
1			Credit	Site Assessment	1
		2	Credit	Site Development - Protect or Restore Habitat	2
1			Credit	Open Space	1
1	2		Credit	Rainwater Management	3
2			Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction	1

4	1	6	Wate	r Efficiency	11
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Υ			Prereq	Building-Level Water Metering	Required
1	1		Credit	Outdoor Water Use Reduction	2
2		4	Credit	Indoor Water Use Reduction	6
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

40	40	-			00
12	16	_ 7	Energ	gy and Atmosphere	33
Υ			Prereq	Fundamental Commissioning and Verification	Required
Υ			Prereq	Minimum Energy Performance	Required
Υ			Prereq	Building-Level Energy Metering	Required
Υ			Prereq	Fundamental Refrigerant Management	Required
6			Credit	Enhanced Commissioning	6
4	12	4	Credit	Optimize Energy Performance	18
	1		Credit	Advanced Energy Metering	1
	2		Credit	Demand Response	2
		3	Credit	Renewable Energy Production	3
	1		Credit	Enhanced Refrigerant Management	1
2			Credit	Green Power and Carbon Offsets	2

2	6	5	Mater	ials and Resources	13
Υ			Prereq	Storage and Collection of Recyclables	Required
Υ			Prereq	Construction and Demolition Waste Management Planning	Required
	3	2	Credit	Building Life-Cycle Impact Reduction	5
	1	1	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
	1	1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1	1	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2			Credit	Construction and Demolition Waste Management	2

7	7	2	Indoo	or Environmental Quality	16
Υ			Prereq	Minimum Indoor Air Quality Performance	Required
Υ			Prereq	Environmental Tobacco Smoke Control	Required
2			Credit	Enhanced Indoor Air Quality Strategies	2
1	2		Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
	2		Credit	Indoor Air Quality Assessment	2
1			Credit	Thermal Comfort	1
1	1		Credit	Interior Lighting	2
	2	1	Credit	Daylight	3
		1	Credit	Quality Views	1
1			Credit	Acoustic Performance	1

5			Credit II	nnovation	5
1			Credit L	EED Accredited Professional	1
			•		
			Regional Priority		
2	2	0	Regiona	I Priority	4
1	2	0	_	I Priority Regional Priority: Access to Quality Transit	1
1 1	2	0	Credit F	•	1 1

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	1			Credit	Regional Priority: Access to Quality Transit	1
	1			Credit	Regional Priority: Green Vehicles	1
		1		Credit	Regional Priority: Reduced Parking Footprint	1
		1		Credit	Regional Priority: Rainwater Management	1
				•		

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110



APRIL 5, 2017

Possible Points: 110