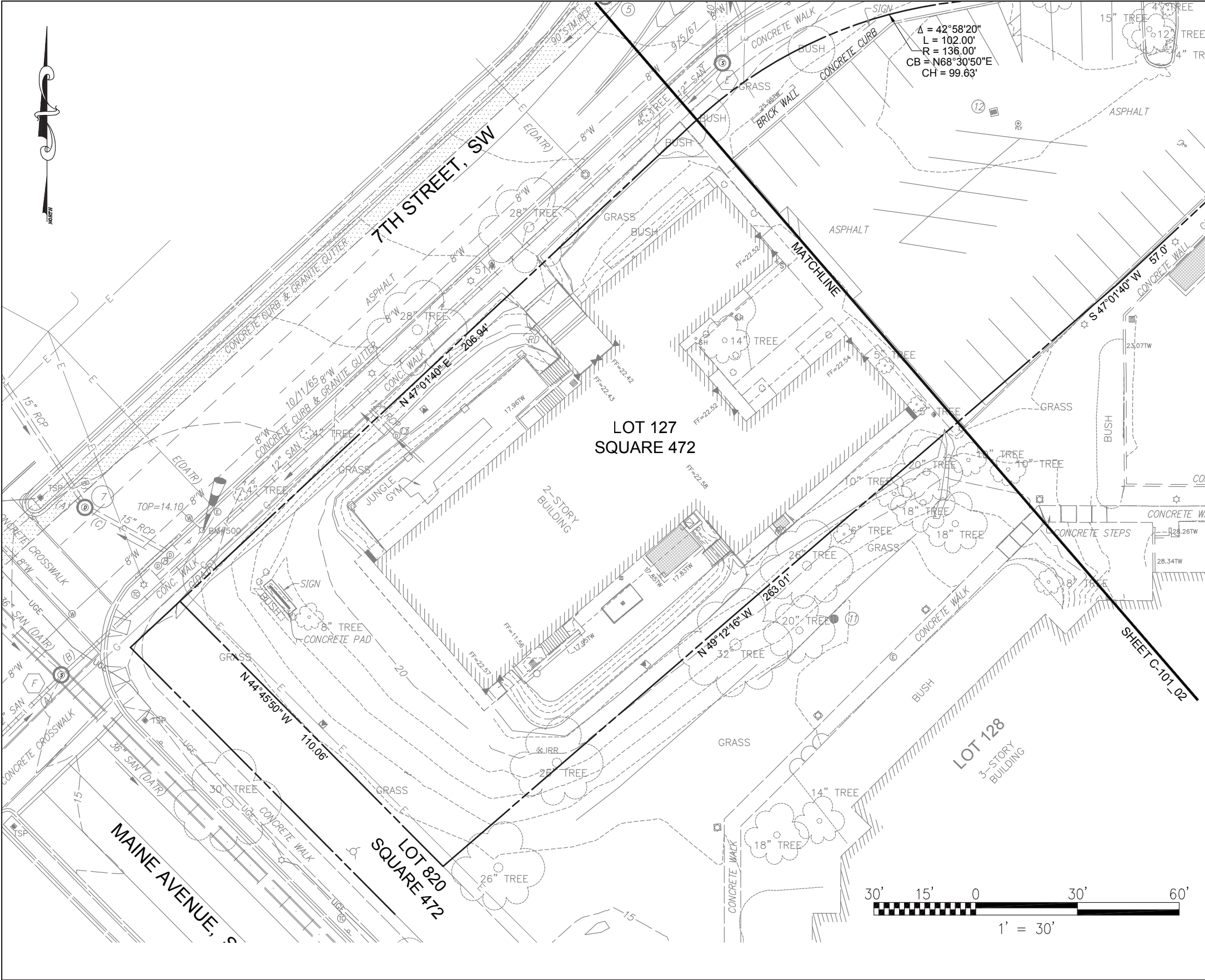




STORM WATER DATA:

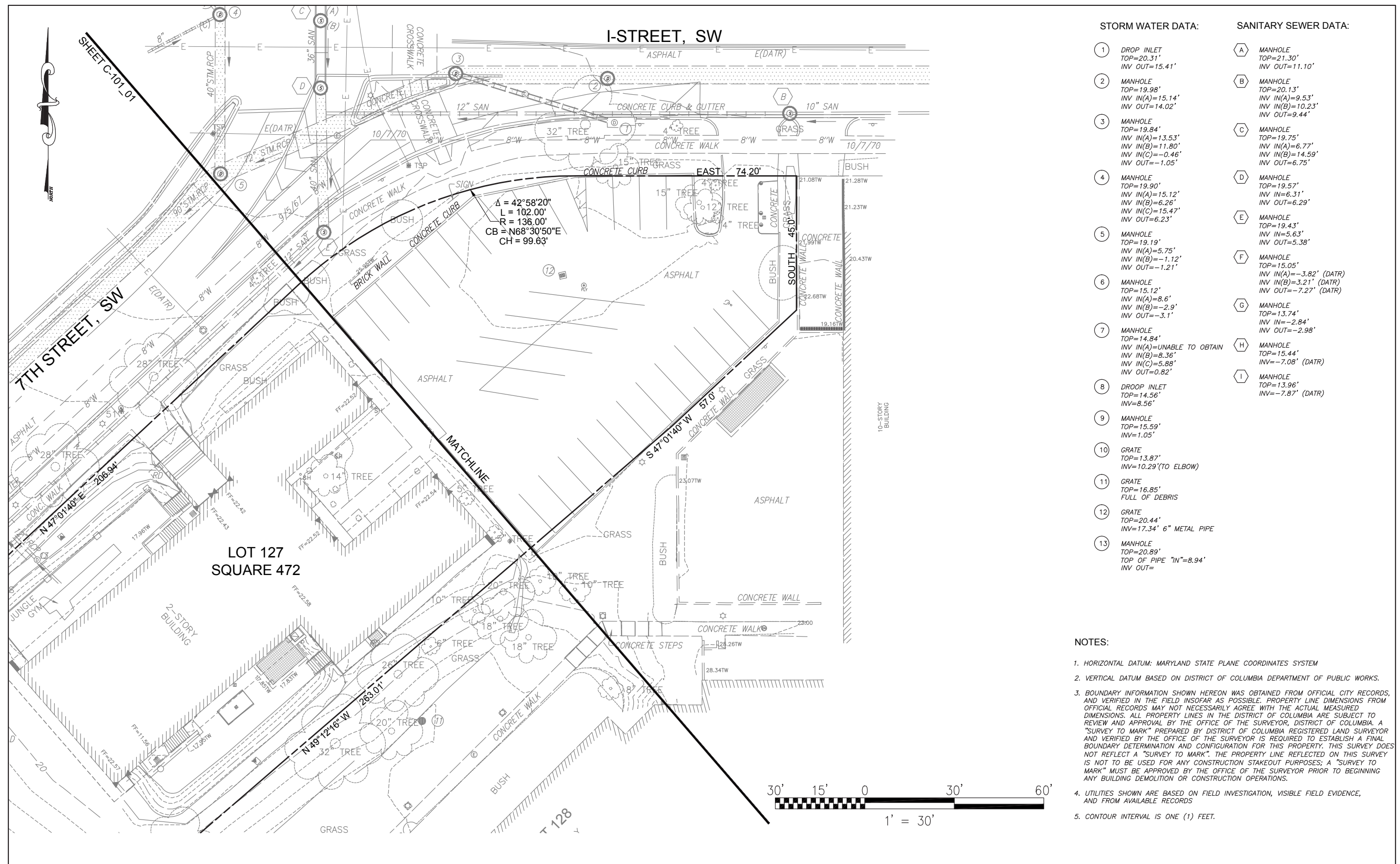
- | STATION | DESCRIPTION | TOP | IN | OUT |
|---------|-------------|--------|------------------|----------------------|
| 1 | DROP INLET | 20.31' | | 15.41' |
| 2 | MANHOLE | 19.98' | 15.14' | 14.02' |
| 3 | MANHOLE | 19.84' | 13.53' | 11.80' |
| 4 | MANHOLE | 19.90' | 15.12' | 15.47' |
| 5 | MANHOLE | 19.19' | 5.75' | 1.12' |
| 6 | MANHOLE | 15.12' | 8.6' | 2.9' |
| 7 | MANHOLE | 14.84' | UNABLE TO OBTAIN | 0.82' |
| 8 | DROOP INLET | 14.56' | | 8.56' |
| 9 | MANHOLE | 15.59' | | 1.05' |
| 10 | GRATE | 13.87' | | 10.29' (TO ELBOW) |
| 11 | GRATE | 16.85' | | FULL OF DEBRIS |
| 12 | GRATE | 20.44' | | 17.34' 6" METAL PIPE |
| 13 | MANHOLE | 20.89' | | 8.94' |

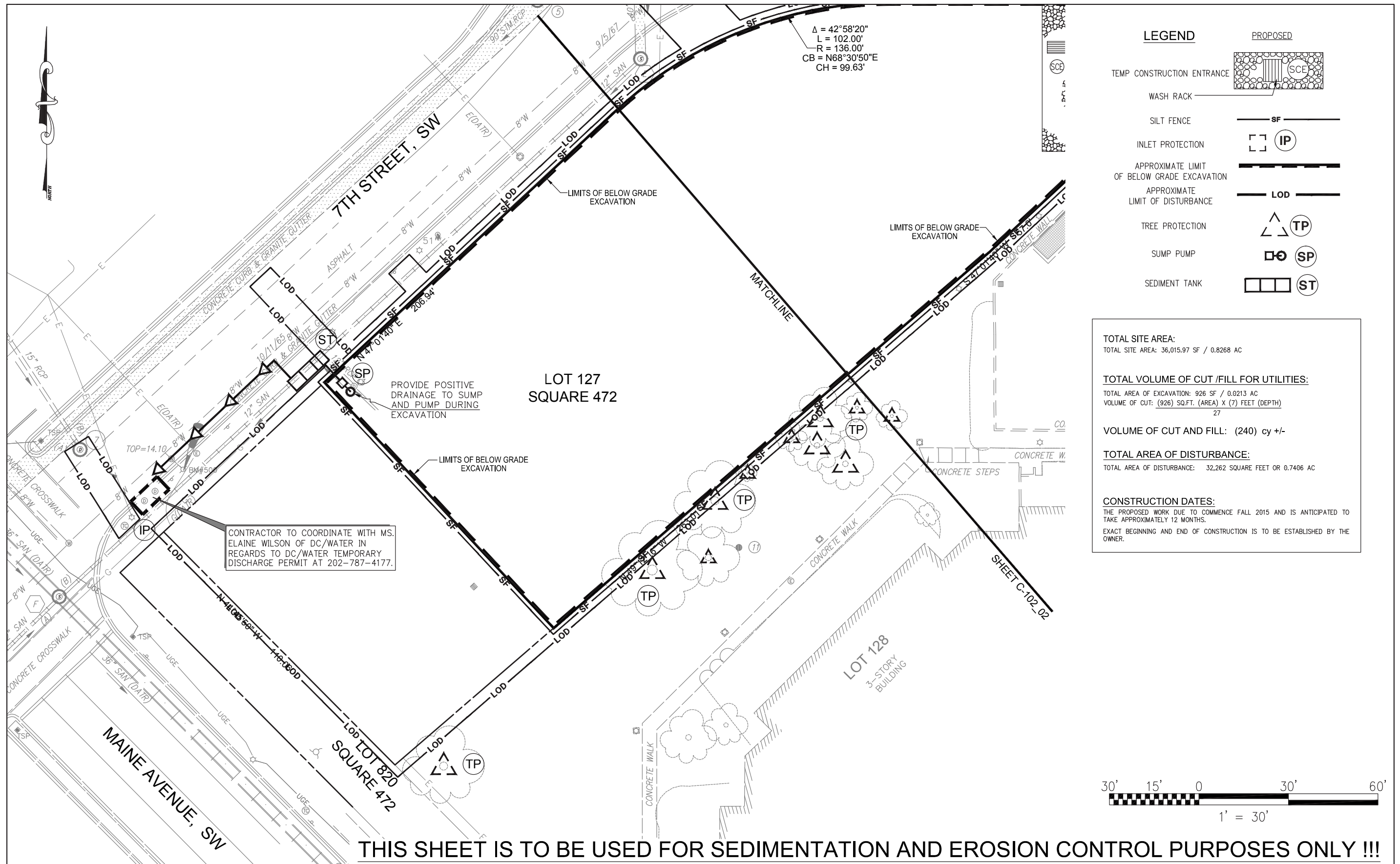
SANITARY SEWER DATA:

- | STATION | DESCRIPTION | TOP | IN | OUT |
|---------|-------------|--------|--------------|--------------|
| A | MANHOLE | 21.30' | | 11.10' |
| B | MANHOLE | 20.13' | 9.53' | 10.23' |
| C | MANHOLE | 19.75' | 6.77' | 14.59' |
| D | MANHOLE | 19.57' | 6.31' | 6.29' |
| E | MANHOLE | 19.43' | 5.63' | 5.38' |
| F | MANHOLE | 15.05' | 3.82' (DATR) | 3.21' (DATR) |
| G | MANHOLE | 13.74' | 2.84' | 2.98' |
| H | MANHOLE | 15.44' | 7.08' (DATR) | |
| I | MANHOLE | 13.96' | 7.87' (DATR) | |

NOTES:

- HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATES SYSTEM
- VERTICAL DATUM BASED ON DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS.
- BOUNDARY INFORMATION 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 THE ACTUAL MEASURED DIMENSIONS. ALL PROPERTY LINES IN THE DISTRICT OF COLUMBIA ARE SUBJECT TO REVIEW AND APPROVAL BY THE OFFICE OF THE SURVEYOR, DISTRICT OF COLUMBIA. A "SURVEY TO MARK" PREPARED BY DISTRICT OF COLUMBIA REGISTERED LAND SURVEYOR AND VERIFIED BY THE OFFICE OF THE SURVEYOR IS REQUIRED TO ESTABLISH A FINAL BOUNDARY DETERMINATION AND CONFIGURATION FOR THIS PROPERTY. THIS SURVEY DOES NOT REFLECT A "SURVEY TO MARK". THE PROPERTY LINE REFLECTED ON THIS SURVEY IS NOT TO BE USED FOR ANY CONSTRUCTION STAKEOUT PURPOSES; A "SURVEY TO MARK" MUST BE APPROVED BY THE OFFICE OF THE SURVEYOR PRIOR TO BEGINNING ANY BUILDING DEMOLITION OR CONSTRUCTION OPERATIONS.
- UTILITIES SHOWN ARE BASED ON FIELD INVESTIGATION, VISIBLE FIELD EVIDENCE, AND FROM AVAILABLE RECORDS
- CONTOUR INTERVAL IS ONE (1) FEET.

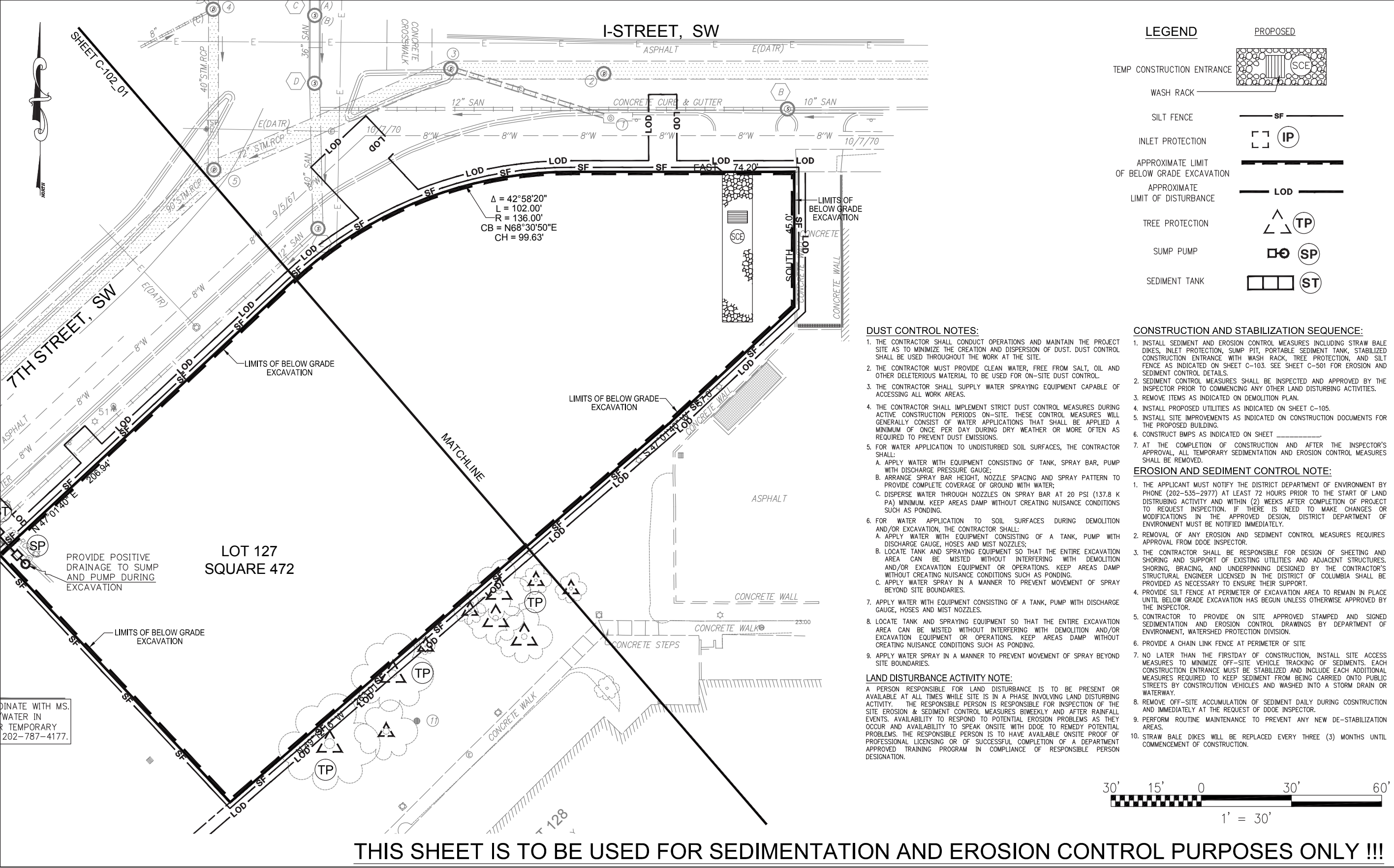


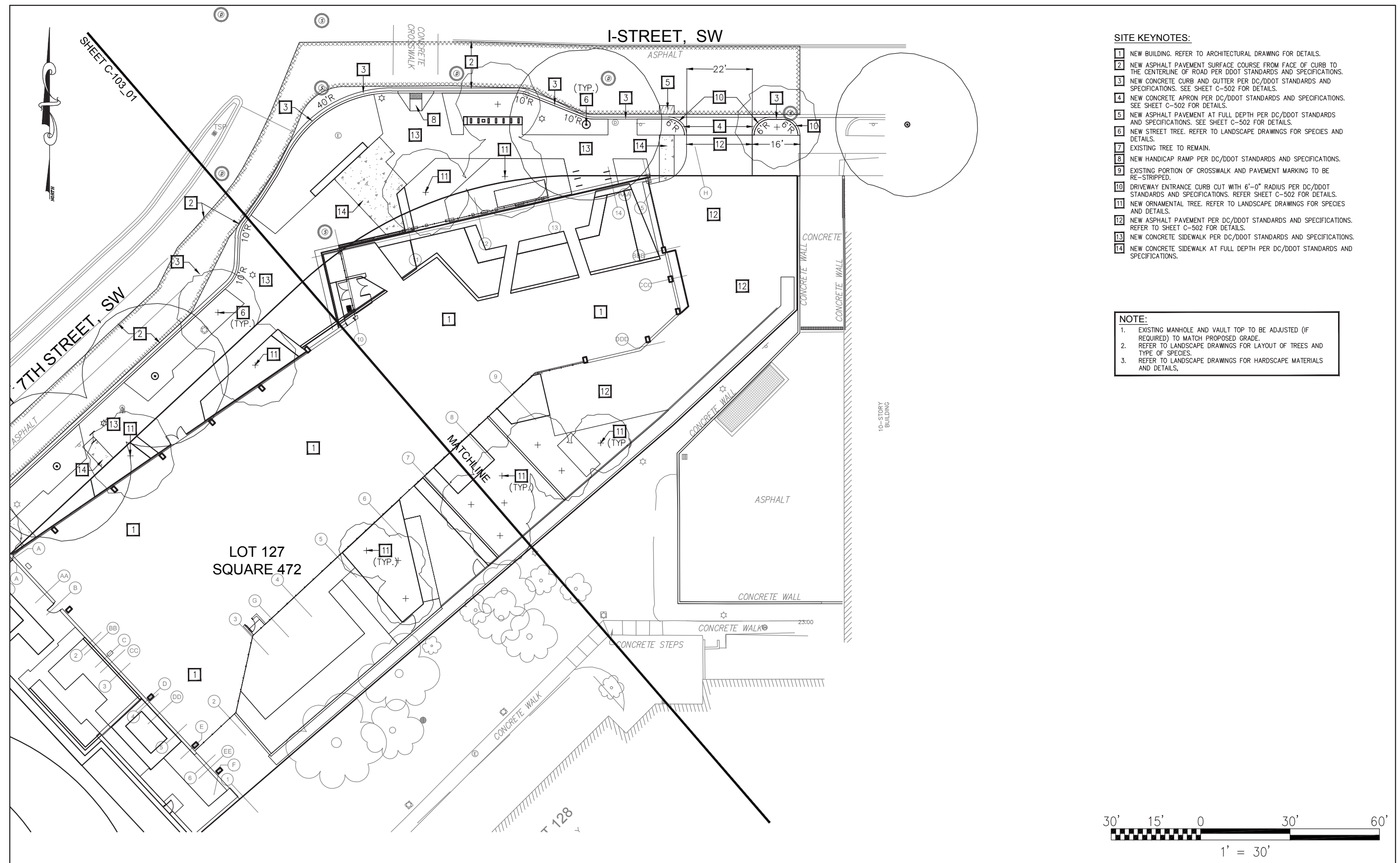


RIVERSIDE BAPTIST CHURCH REDEVELOPMENT

SEDIMENT & EROSION CONTROL PLAN CONSOLIDATED PUD APPLICATION

March 2015





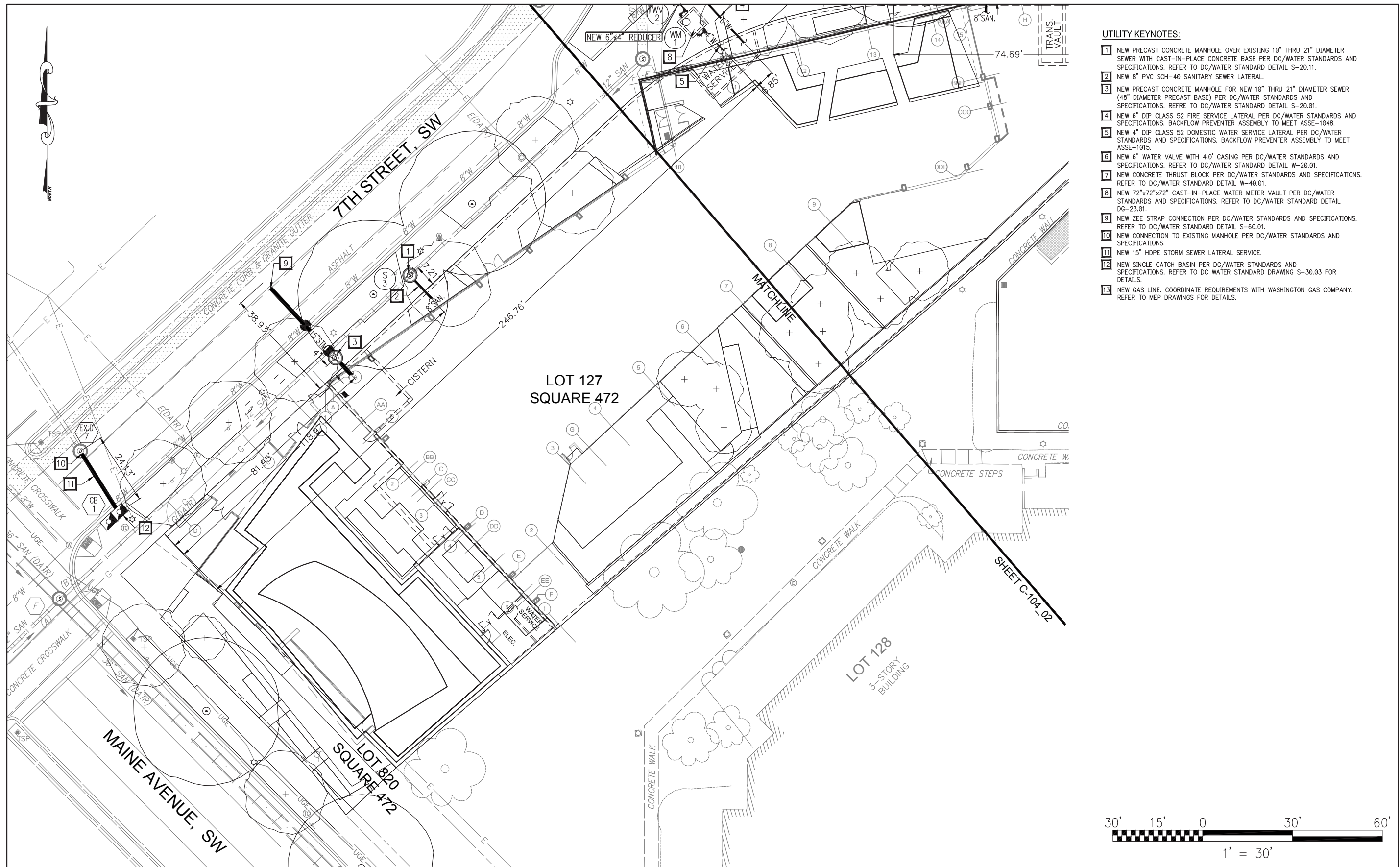
RIVERSIDE BAPTIST CHURCH REDEVELOPMENT

CIVIL SITE PLAN

CONSOLIDATED PUD APPLICATION

79

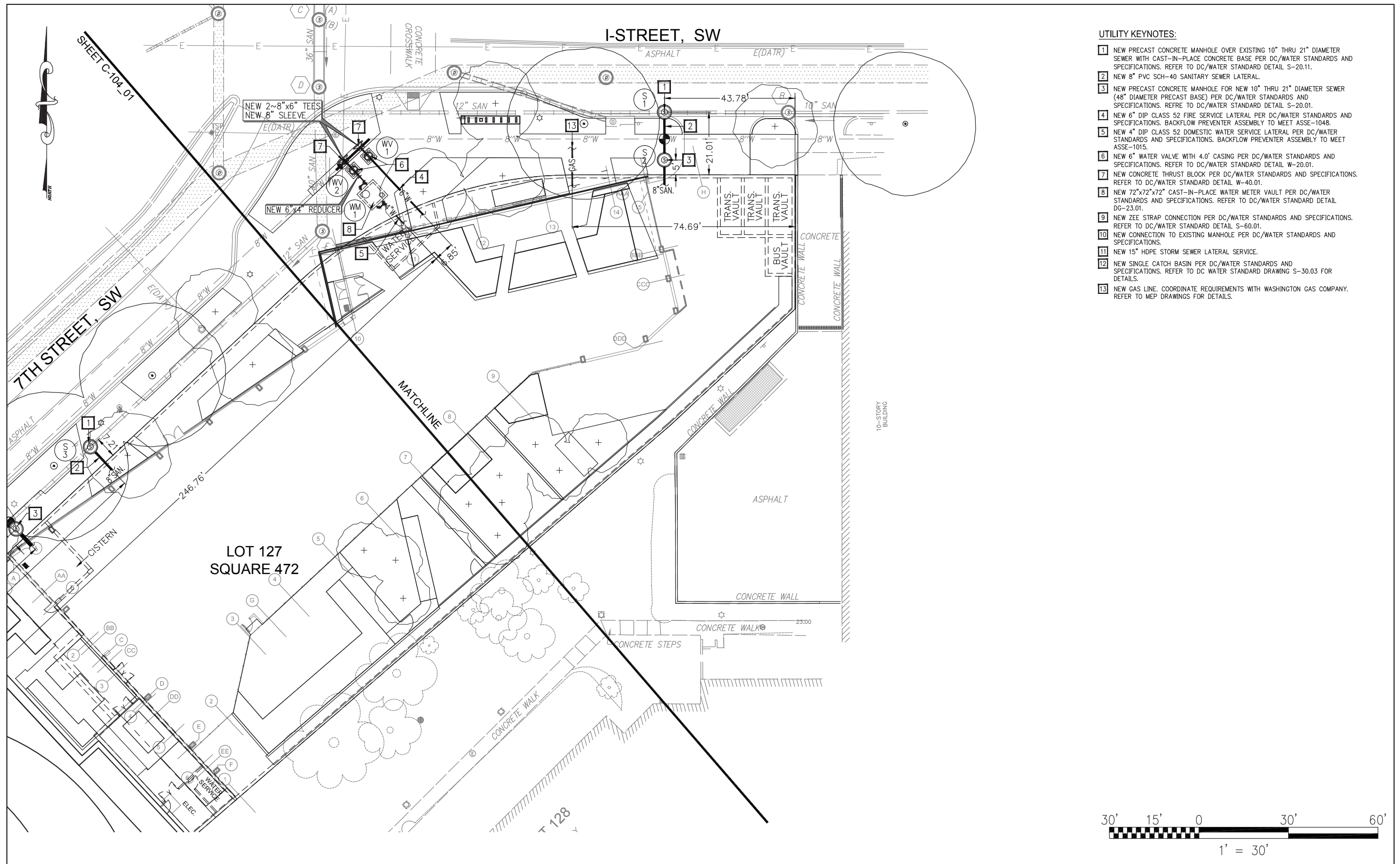
March 2015

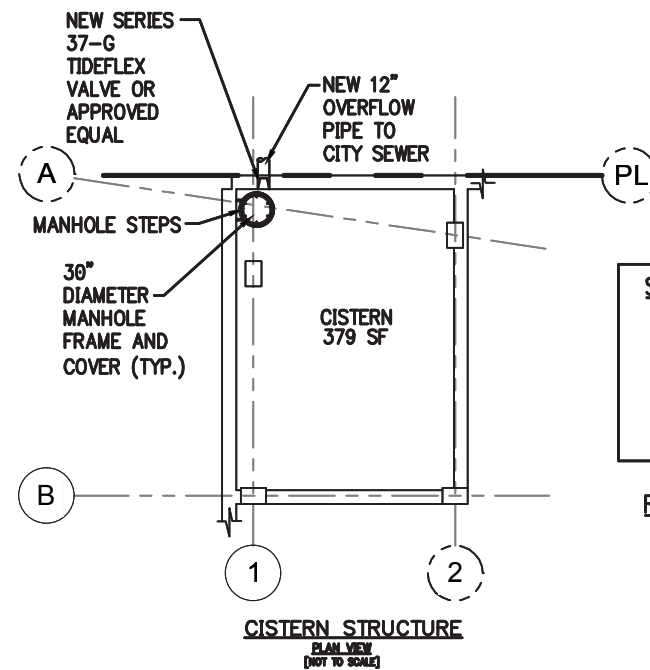


RIVERSIDE BAPTIST CHURCH REDEVELOPMENT

UTILITY PLAN CONSOLIDATED PUD APPLICATION

March 2015





SWM NARRATIVE

THE STORMWATER MANAGEMENT FOR THIS PROJECT WILL BE GREENROOF AND CISTERN STRUCTURE. RAINWATER THAT WILL BE COLLECTED TO THE CISTERN WILL BE USE FOR IRRIGATION. SWM WILL BE IN COMPLIANCE WITH THE CURRENT DDOE STANDARDS FOR STORMWATER MANAGEMENT.

REFER TO LANDSCAPE DRAWING FOR GREENROOF PLAN

CISTERN STORAGE AREA MAINTENANCE

THE ACCESS COVER TO THE CISTERN STORAGE AREA SHALL BE OPENED. FOLLOWING ALL CONFINED SPACE ENTRY REQUIREMENTS, USING PROPER VENTILATION EQUIPMENT AND TRAINING AS REQUIRED BY OSHA, THE CISTERN STORAGE AREA SHALL BE ENTERED FOR INSPECTIONS. NO ONE SHALL ENTER THE CISTERN UNLESS THEY ARE PROPERLY TRAINED, EQUIPPED, AND QUALIFIED TO ENTER A CONFINED SPACE AS IDENTIFIED BY LOCAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS.

INSPECTION AND MAINTENANCE OF THE CISTERN MUST BE PERFORMED DURING A THREE (3) DAY DRY WEATHER FORECAST. THE CISTERN SHALL BE DRAINED USING A SUBMERSIBLE PUMP AND WATER DISCHARGED INTO THE CITY'S COMBINED SEWER. PRIOR TO ENTERING THE CISTERN, ALL LIFT AND TRANSFER PUMPS SHALL BE TURNED OFF FOR SAFETY. ALL AREAS OF THE CISTERN STORAGE AREA SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION. SEDIMENT ACCUMULATION SHALL BE MEASURED AT ALL SECTORS OF THE CISTERN STORAGE AREA.

635 MASSACHUSETTS AVENUE LLC SHALL MAINTAIN COPIES OF THESE INSPECTION RECORDS. IF THE SEDIMENT DEPTH REACHES EIGHT INCHES (8") IN ANY OF THESE AREAS, CLEANING OF THE ENTIRE CISTERN SHALL BE REQUIRED AS DESCRIBED BELOW.

THE SYSTEM SHALL BE COMPLETELY CLEANED BACK TO 100 PERCENT (100%) OF THE ORIGINALLY DESIGNED STORAGE VOLUME WHENEVER THE ABOVE SEDIMENT LEVELS HAVE BEEN REACHED. THE CISTERN SHALL BE COMPLETELY DRAINED PRIOR TO PROCEEDING WITH CLEANING.

MAINTENANCE IS TYPICALLY PERFORMED USING A VACUUM TRUCK. SEDIMENT SHALL BE FLUSHED TOWARDS A VACUUM HOSE FOR THOROUGH REMOVAL. AT THE MANHOLE ACCESS TO THE CISTERN STORAGE, A VACUUM HOSE SHALL BE LOWERED INTO THE CISTERN SYSTEM. USING SEWER JETTING EQUIPMENT, SEDIMENT SHALL BE FLUSHED AT THE OPPOSITE END OF THE CISTERN TOWARD THE VACUUM HOSE AT THE MANHOLE ACCESS.

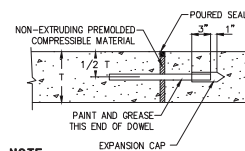
WHEN FINISHED, COVERS THAT WERE REMOVED SHALL BE REPLACED AND THE COLLECTED MATERIAL SHALL BE PROPERLY DISPOSED. THE MATERIAL THAT IS REMOVED MAY BE CONSIDERED LOW-LEVEL HAZARDOUS WASTE AND MUST BE DISPOSED OF IN ACCORDANCE WITH ANY AND ALL LOCAL AND NATIONAL REGULATIONS.

635 MASSACHUSETTS AVENUE LLC SHALL MAINTAIN COPIES OF ALL INSPECTION AND MAINTENANCE RECORDS.

CISTERN COVER INSPECTIONS AND MAINTENANCE

ALL CISTERN COVERS AND HATCHES SHALL BE INSPECTED AND ANY DEBRIS AROUND COVERS OR HATCHES SHALL BE REMOVED. IF ANY DEBRIS IS BLOCKING GRATED ACCESS COVER TO CISTERN OVERFLOW, IT SHALL BE REMOVED. IF ANY CISTERN COVERS ARE DAMAGED, THEY SHALL BE REPAIRED OR REPLACED AS NECESSARY.

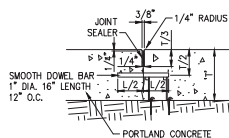
DETAIL 1 - STABILIZED CONSTRUCTION ENTRANCE CONSTRUCTION SPECIFICATIONS - LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT). - WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. - GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. ** THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE. - STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE. - SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" STONE OVER THE PIPE. WHEN THE DSE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO CONVEY. A 6" MINIMUM WILL BE REQUIRED. THE MOUNTABLE BERM IS REQUIRED ON ALL SLOES NOT LOCATED AT A HIGH SPOT. - LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: A-1-3 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 4 - SILT FENCE CONSTRUCTION SPECIFICATIONS - FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" x 1 1/2" SQUARE (MIN) CUT, OR 1 3/4" DIAMETER (MIN) ROUNDO AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT. - GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F: <table><tr><td>TENSILE STRENGTH</td><td>50 LBS/IN (MIN)</td><td>TEST: ASTM D-4595</td></tr><tr><td>TENSILE MODULUS</td><td>20 LBS/IN (MIN)</td><td>TEST: ASTM D-4595</td></tr><tr><td>FLOW RATE</td><td>0.3 GAL/1/2 MINUTE (MAX)</td><td>TEST: ASTM D-5141</td></tr><tr><td>FILTERING EFFICIENCY</td><td>75% (MIN)</td><td>TEST: ASTM D-5141</td></tr></table> - WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. - SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 30% OF THE FABRIC HEIGHT. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: B-5-3 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	TENSILE STRENGTH	50 LBS/IN (MIN)	TEST: ASTM D-4595	TENSILE MODULUS	20 LBS/IN (MIN)	TEST: ASTM D-4595	FLOW RATE	0.3 GAL/1/2 MINUTE (MAX)	TEST: ASTM D-5141	FILTERING EFFICIENCY	75% (MIN)	TEST: ASTM D-5141	DETAIL 6A - STANDARD INLET PROTECTION CONSTRUCTION SPECIFICATIONS - EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 16" BELOW THE NOTCH ELEVATION. - DRIVE THE 2" x 4" CONSTRUCTION GRADE LUMBER POSTS 1" INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2" x 4" FRAME USING THE OVERLAP JOINT SHOWN ON DETAIL 6A. THE TOP OF THE FRAME (WEIR) MUST BE 6" BELOW ADJACENT ROADWAYS WHERE FLOODING AND SAFETY ISSUES MAY ARISE. - STRETCH THE 1/2" x 1/2" WIRE MESH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. THE ENDS MUST MEET AND OVERLAP AT A POST. - STRETCH THE GEOTEXTILE CLASS E TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 16" BELOW THE INLET NOTCH ELEVATION. FASTEN THE GEOTEXTILE FIRMLY TO THE FRAME. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED THEN FASTENED DOWN. - BACKFILL AROUND THE INLET IN COMPACTING 6" LAYERS UNTIL THE LAYER OF EARTH IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES. - IF THE INLET IS NOT IN A SWAMP, CONSTRUCT A COMPACTED EARTH DIKE ACROSS THE DITCH LINE DIRECTLY BELOW IT. THE TOP OF THE EARTH DIKE SHOULD BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME. - THE STRUCTURE MUST BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND THE GEOTEXTILE REPLACED WHEN IT BECOMES CLOGGED. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: B-7-5 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 6B - AT GRADE INLET PROTECTION CONSTRUCTION SPECIFICATIONS - LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS. THEN SET GRATE BACK IN PLACE. - PLACE 3/4" TO 1 1/2" STONE. 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: B-7-6 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 6C - CURB INLET PROTECTION (COG OR COS INLETS) CONSTRUCTION SPECIFICATIONS - ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" x 4" WEIR (MEASURING THROAT LENGTH PLUS 2") AS SHOWN ON THE STANDARD DRAWING. - PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" x 4" WEIR. - SECURELY NAIL THE 2" x 4" WEIR TO A 9" LONG VERTICAL SPACER TO BE LOCATE BETWEEN THE WEIR AND THE INLET FACE (MAX. 4" APART). - PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS OF 2" x 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THESE 2" x 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT. - THE ASSEMBLY SHALL BE PLACE SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING. - FORM THE 1/2" x 1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE CUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4" x 1 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE. - THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT. - ASSURE THAT THE STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: B-7-7 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 6E - AT GRADE INLET GUARD STANDARD INLET GUARD ATTACHMENT METHOD * AT EACH INTERSECTION OF INLET PROTECTOR OVERLAP A MINIMUM OF 2" STANDARD INLET GUARD DIMENSIONS 7-1/2" 9-1/2" 5-1/2" THE TOP MEASUREMENT OF 7-1/2" IS SET TO PROVIDE A 2" EXTENSION FOR OVERFLOW WHILE AVOIDING BLOCKAGE OF THE MANHOLE COVER. MAKE A WATER TIGHT CONNECTION ALONG THE SIDES AND BOTTOM OF THE INLET GUARD WITH THE STREET AND CURB. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: B-7-9 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH
TENSILE STRENGTH	50 LBS/IN (MIN)	TEST: ASTM D-4595															
TENSILE MODULUS	20 LBS/IN (MIN)	TEST: ASTM D-4595															
FLOW RATE	0.3 GAL/1/2 MINUTE (MAX)	TEST: ASTM D-5141															
FILTERING EFFICIENCY	75% (MIN)	TEST: ASTM D-5141															
DETAIL 9 - EARTH DIKE CONSTRUCTION SPECIFICATIONS - SEED AND COVER WITH STRAW MULCH. - SEED AND COVER WITH SOIL STABILIZATION. MATTING OR LINE WITH SOD. 4"-7" STONE OR RECYCLED CONCRETE EQUIVALENT PRESSED INTO THE SOD. 7" MINIMUM. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: C-10-6 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 11 - PERIMETER DIKE / SWALE CONSTRUCTION SPECIFICATIONS - ALL TEMPORARY EARTH DIKES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%. - RUNOFF DIVERTED FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE. - RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED, STABILIZED AREA AT A NON-EROSIVE VELOCITY. - ALL TREES, BRUSH, STAMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIKE. - THE DIKE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPAIR NORMAL FLOW. - FILL SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT. - ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIKE. - INSPECTION AND MAINTENANCE MUST BE PROVIDED PERIODICALLY AND AFTER EACH RAIN EVENT. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: C-10-6 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 12 - PIPE OUTLET SEDIMENT TRAP - ST I CONSTRUCTION SPECIFICATIONS - THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. - THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. - THE TOTAL VOLUME AS MEASURED FROM THE BOTTOM TO RISER CREST ELEVATION SHALL BE 3000 CUBIC FEET PER ACRE OF DRAINAGE AREA (SEE TABLE 11). THE TOP OF EMBANKMENT MUST BE 2" ABOVE THE RISER CREST ELEVATION. - SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE NET STORAGE DEPTH OF THE TRAP (900 C/AC). THE SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. - THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND REPAIRS. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-14-7 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	PIPE OUTLET SEDIMENT TRAP - ST I CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATED INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE USING THE LIFE OF THE TRAP. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-14-8 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 13 - STONE OUTLET SEDIMENT TRAP - ST II CONSTRUCTION SPECIFICATIONS - AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. - THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. - ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER. - THE STONE USED IN THE OUTLET SHALL BE HAND RIP-RAP 4" TO 7" IN SIZE WITH A 1" THICK LAYER OF 3/4" TO 1 1/2" WASHED AGGREGATE PLACED ON THE UPSTREAM FACE OF THE OUTLET. STONE FACING SHALL BE AS NECESSARY TO PREVENT CLOGGING. GEOTEXTILE CLASS SE MAY BE SUBSTITUTED FOR THE STONE FACING BY PLACING IT ON THE INSIDE FACE OF THE STONE OUTLET. - SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE NET STORAGE DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-14-11 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	STONE OUTLET SEDIMENT TRAP - ST II CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATION INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE DURING THE LIFE OF THE TOP. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-14-12 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH												
DETAIL 14 - RIP-RAP OUTLET SEDIMENT TRAP - ST III CONSTRUCTION SPECIFICATIONS - THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. - THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE 4', MEASURED AT CENTERLINE OF EMBANKMENT. - ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER. - ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF TRAP EMBANKMENT. - STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME MEASURED FROM TOP OF EXCAVATION. (FOR STORAGE REQUIREMENTS SEE TABLE 12). - FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. 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U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-36-3 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 35 - PORTABLE SEDIMENT TANK (VERTICAL) CONSTRUCTION SPECIFICATIONS - THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE SEDIMENT TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. - AN EXAMPLE OF A TYPICAL SEDIMENT TANK IS SHOWN ABOVE. OTHER CONTAINER DESIGNS CAN BE USED IF THE STORAGE VOLUME IS ADEQUATE AND APPROVAL IS OBTAINED FROM THE LOCAL APPROVING AGENCY. - TANKS MAY BE CONNECTED IN SERIES. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-36-4 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 74 - TREE PROTECTION CONSTRUCTION SPECIFICATIONS - THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE SEDIMENT TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. - AN EXAMPLE OF A TYPICAL SEDIMENT TANK IS SHOWN ABOVE. OTHER CONTAINER DESIGNS CAN BE USED IF THE STORAGE VOLUME IS ADEQUATE AND APPROVAL IS OBTAINED FROM THE LOCAL APPROVING AGENCY. - TANKS MAY BE CONNECTED IN SERIES. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE: D-43-3 WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH												



NOTE:
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/4" RADIUS.
2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BY THICKEST EDGE.

THICKNESS OF SLAB	DOWELS	DIAMETER	LENGTH	SPACING
1"	16"	12"		

**DOWELED TRANSVERSE EXPANSION JOINT
FOR CONCRETE DRIVEWAY APRON**
(NOT TO SCALE)



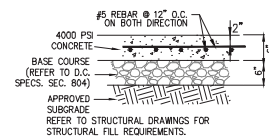
**CONTRACTION JOINT WITH LOAD TRANSFER
FOR CONCRETE DRIVEWAY APRON**
(NOT TO SCALE)



NOTE:
ASPHALT AND SOIL BASE MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS AND TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, LATEST EDITION AND SUPPLEMENTS.

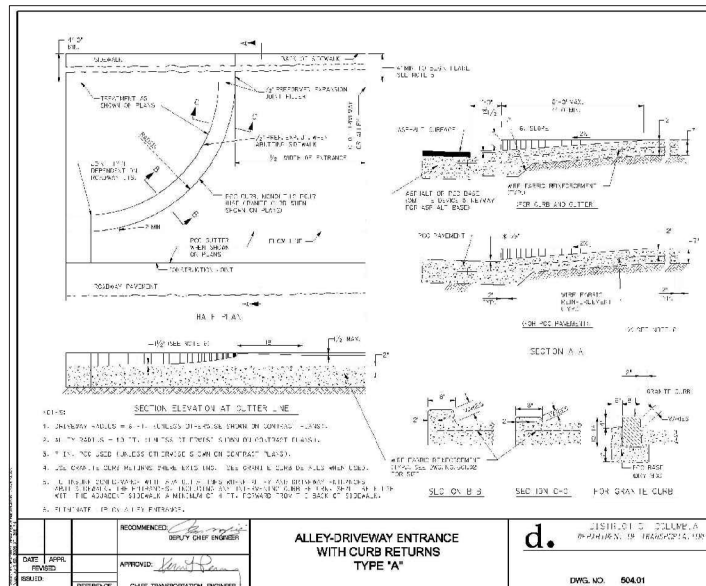
RECOMMENDED PAVEMENT SECTIONS	
RECOMMENDED PAVEMENT SECTIONS	
BITUMINOUS CONCRETE SURFACE COURSE	1.5
BITUMINOUS CONCRETE BASE COURSE	2.5
SOIL BASE MATERIALS	8.0

NEW ASPHALT PAVEMENT
(NOT TO SCALE)



**TYPICAL CONCRETE PAVEMENT DETAIL
FOR DRIVEWAY ENTRANCE**
(NOT TO SCALE)

NOTE: PER DC/DDOT STANDARDS AND SPECIFICATIONS

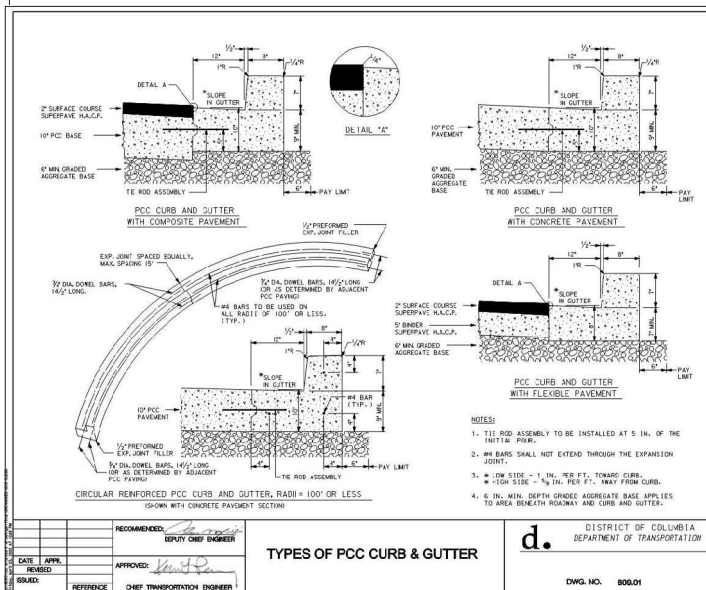


**ALLEY-DRIVEWAY ENTRANCE
WITH CURB RETURNS
TYPE 'A'**

d.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 804.01

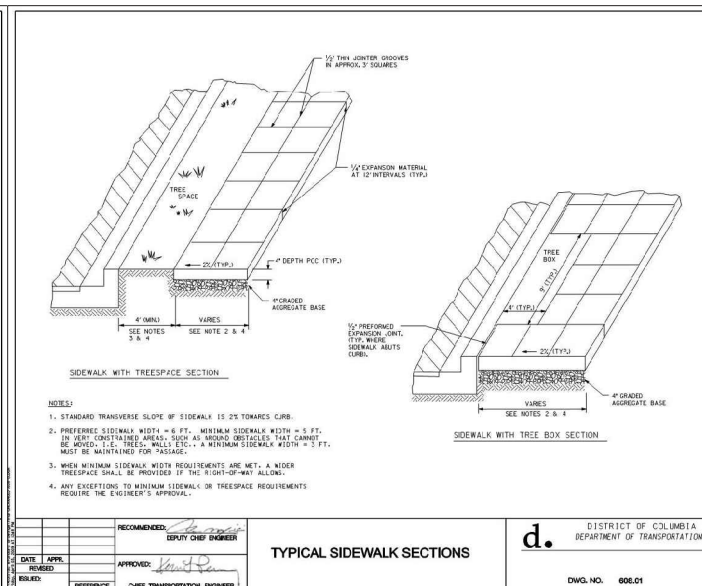


TYPES OF PCC CURB & GUTTER

d.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 806.01

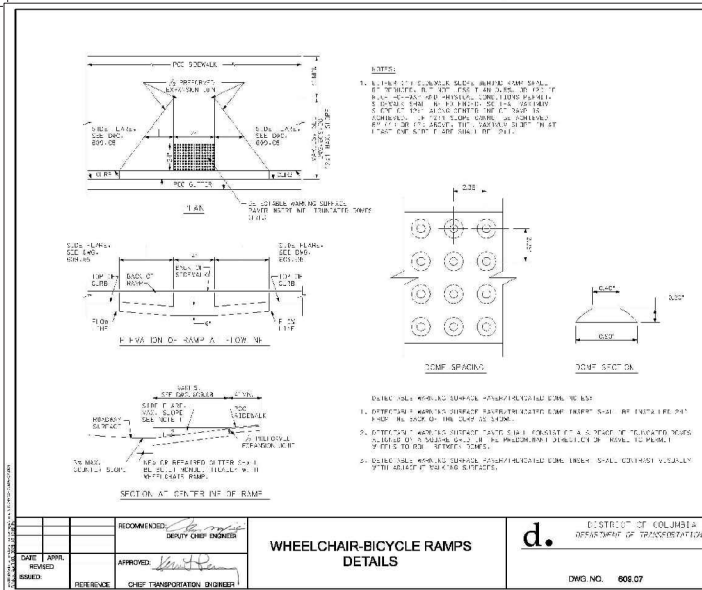


TYPICAL SIDEWALK SECTIONS

d.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.01

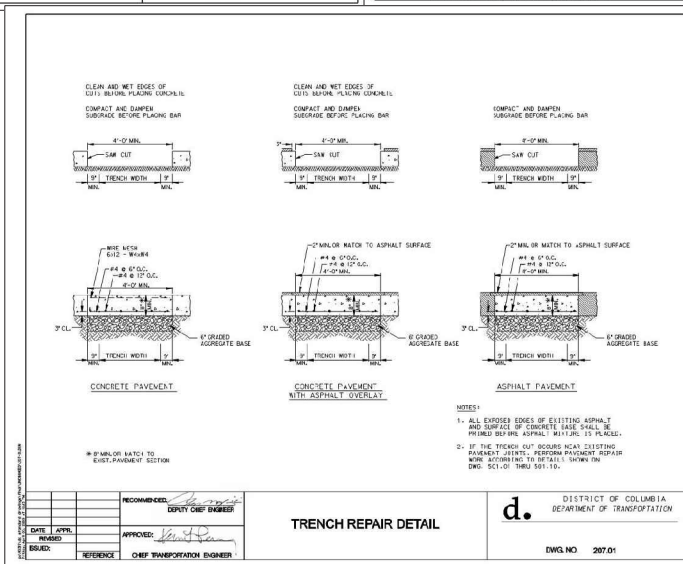


**WHEELCHAIR-BICYCLE RAMPS
DETAILS**

d.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.02

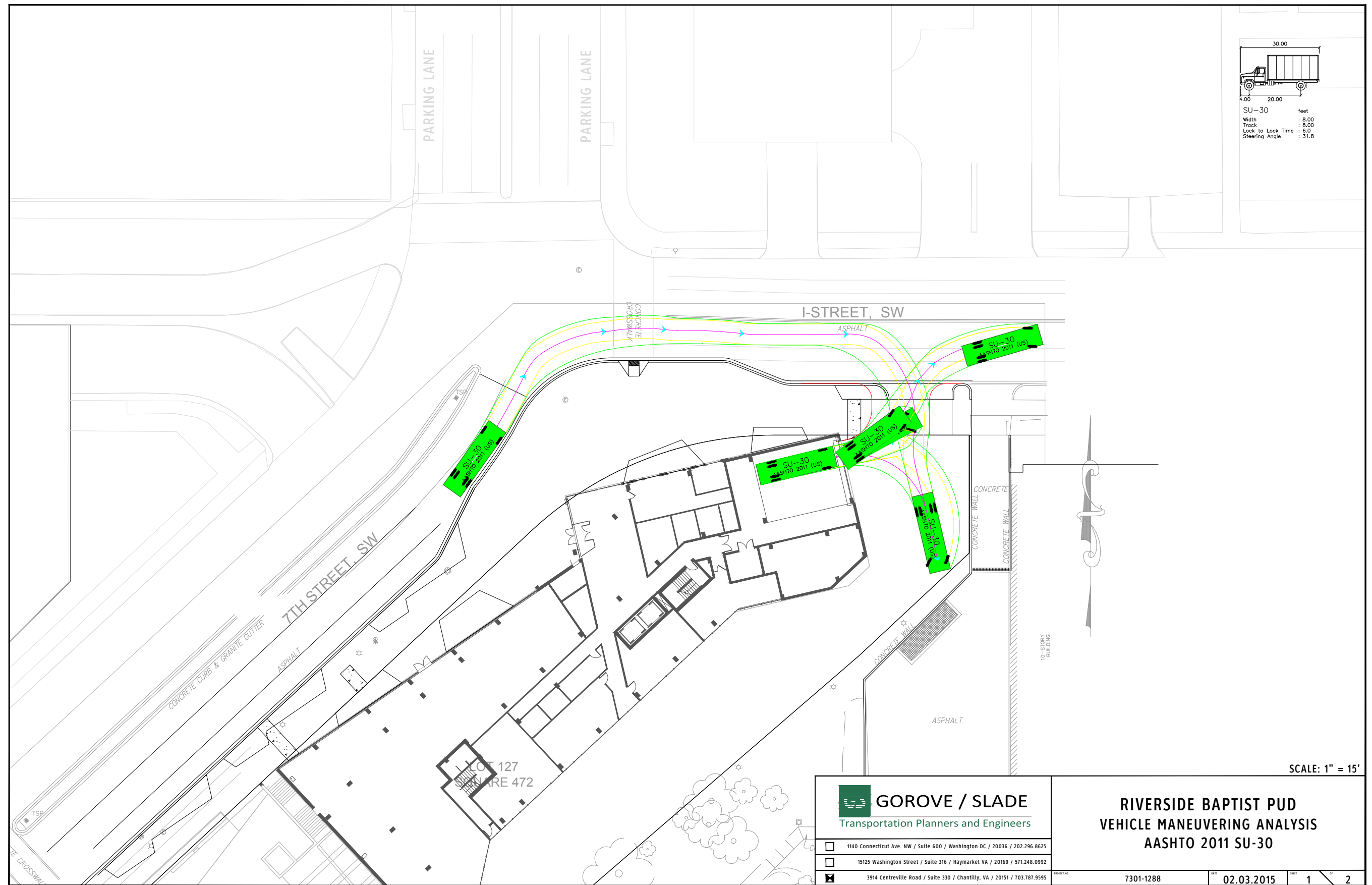


TRENCH REPAIR DETAIL

d.

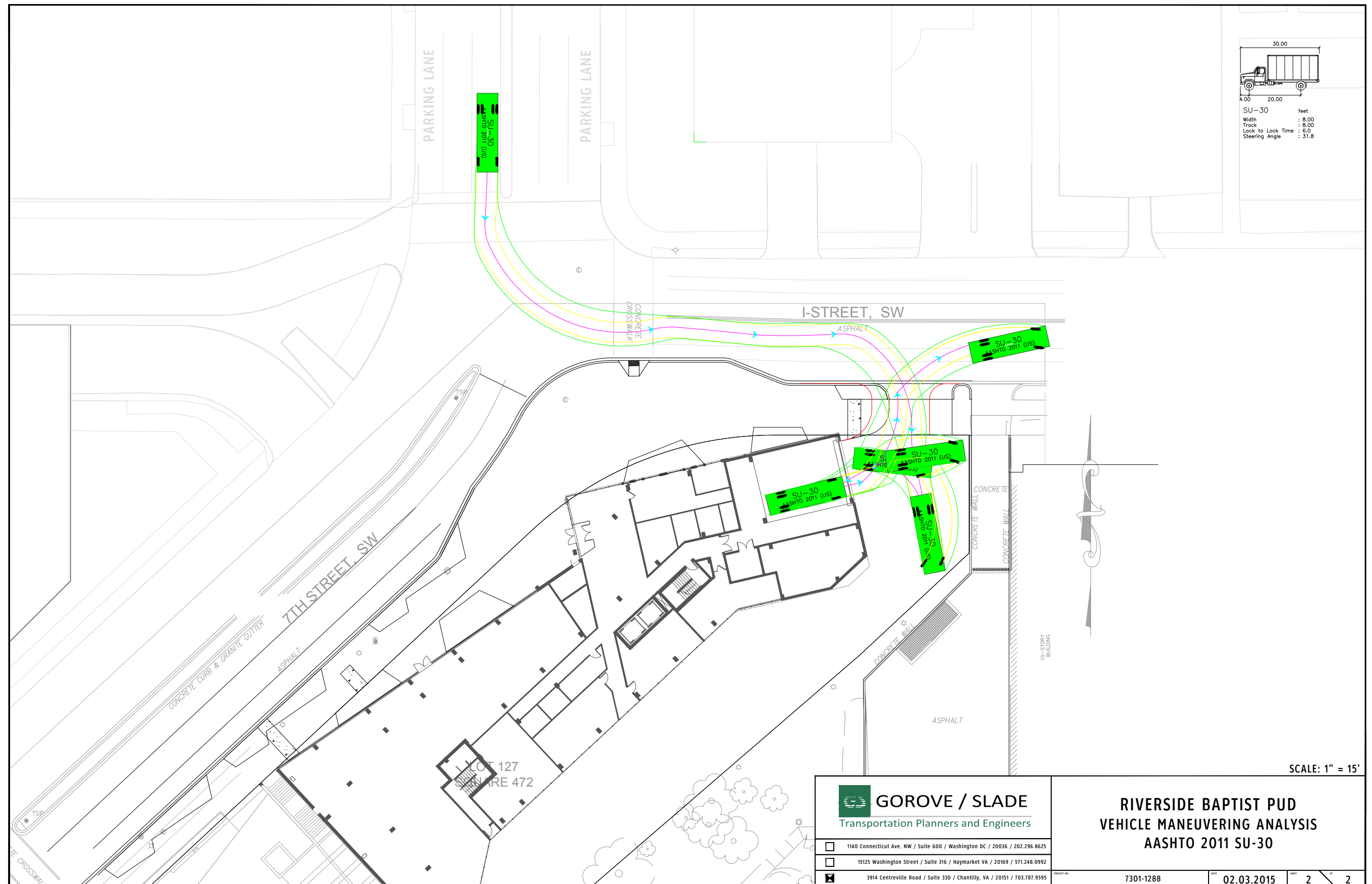
DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 207.01



RIVERSIDE BAPTIST CHURCH REDEVELOPMENT

TRUCK TURNING DIAGRAMS CONSOLIDATED PUD APPLICATION



RIVERSIDE BAPTIST CHURCH REDEVELOPMENT

TRUCK TURNING DIAGRAMS CONSOLIDATED PUD APPLICATION

March 2015