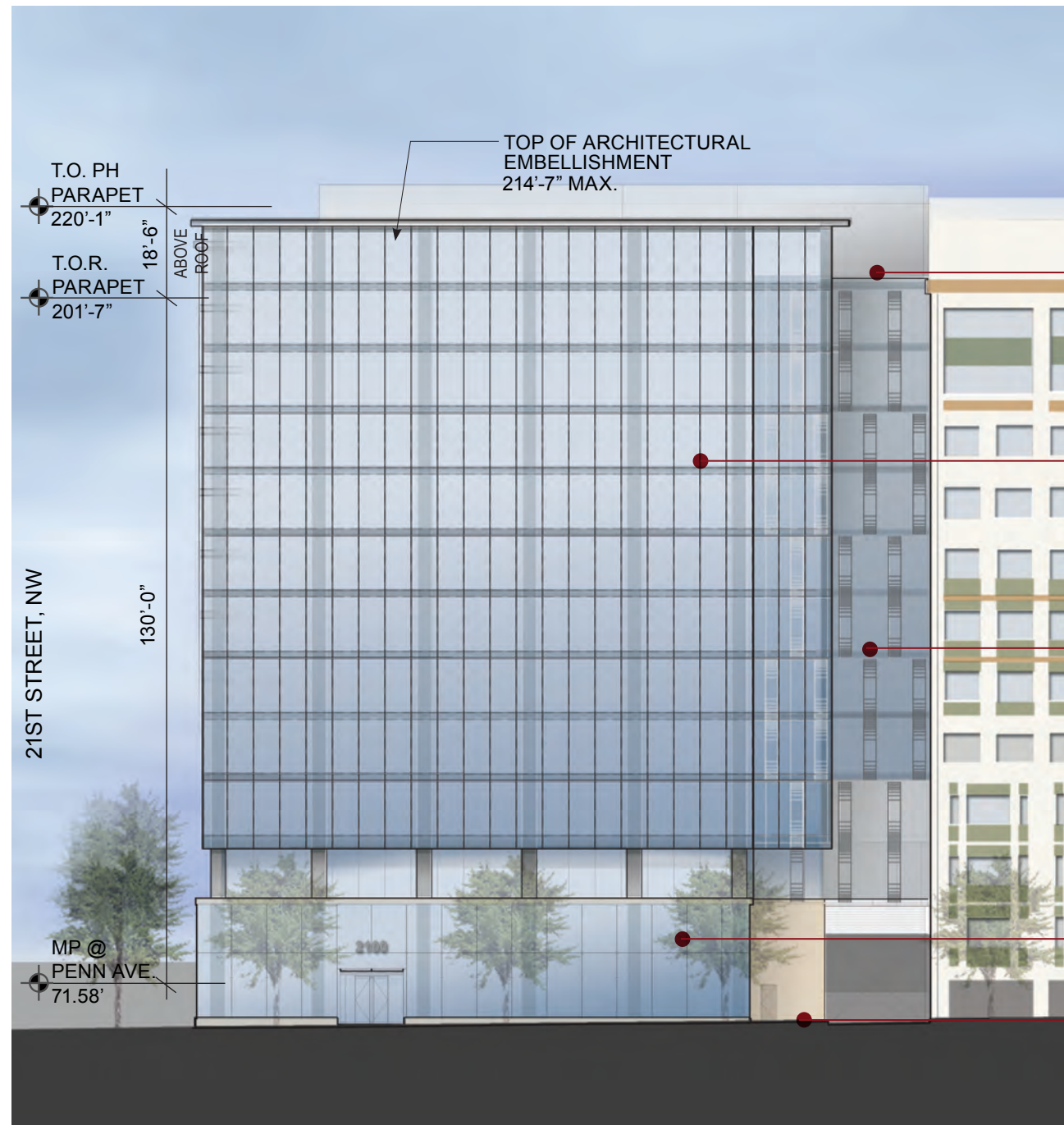
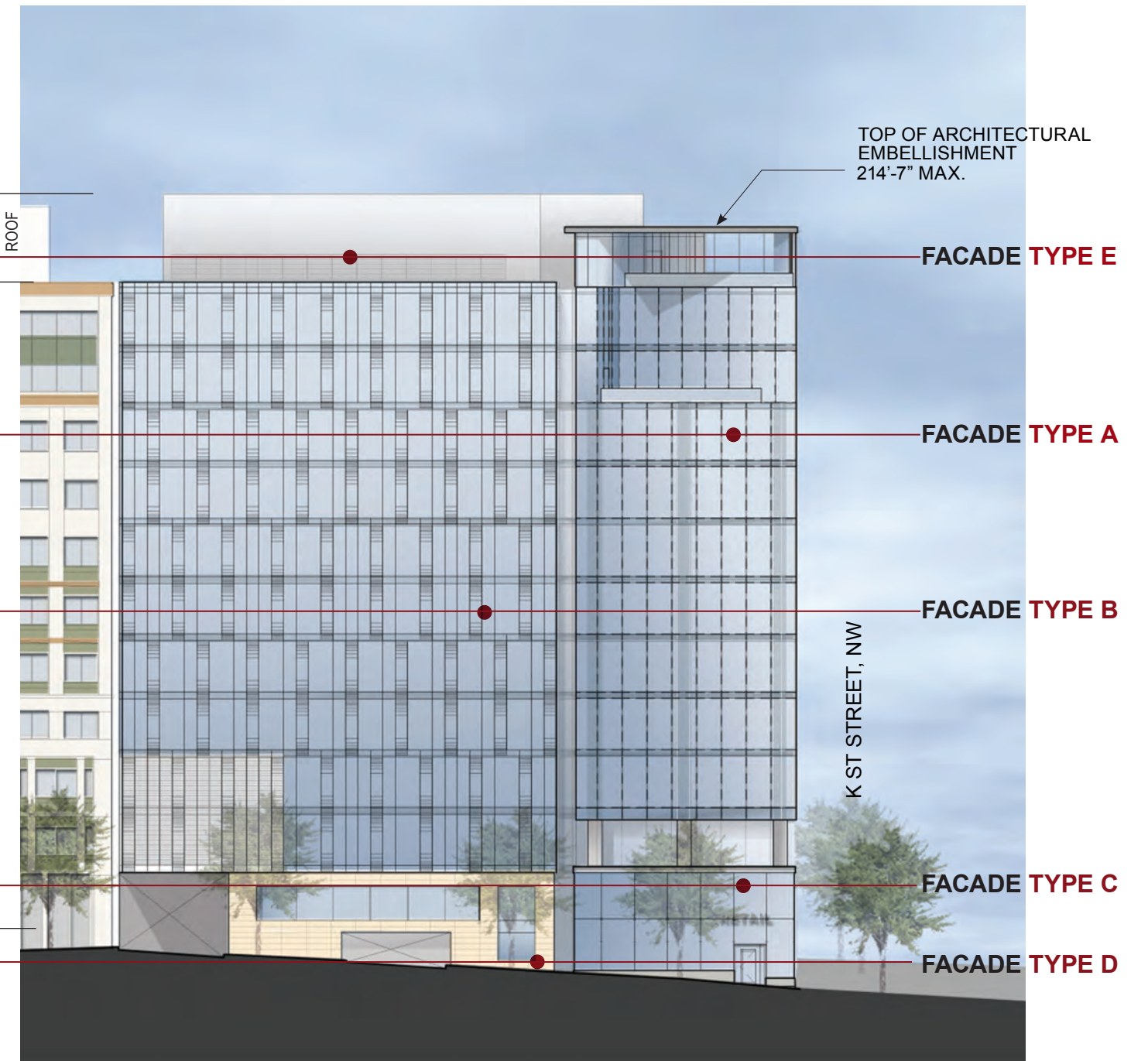


ADDITION ELEVATIONS



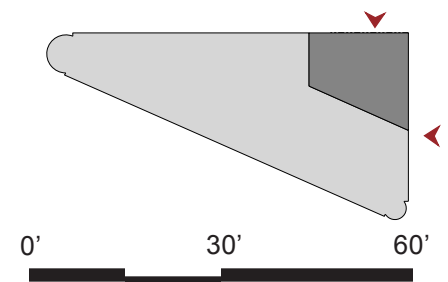
NORTH ELEVATION (K STREET)



EAST ELEVATION (21ST STREET)

NOTES:

THE RETAIL ENTRANCE DESIGN AND LOCATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN, INCLUDING SIGNAGE, MAY VARY DEPENDING ON THE RETAIL TENANTS PROGRAM AND BRANDING NEEDS.



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ZONING COMMISSION
District of Columbia
CASE NO.14-04
EXHIBIT NO.20A2
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FACADE TYPE A (TOWER) DETAIL

- 01

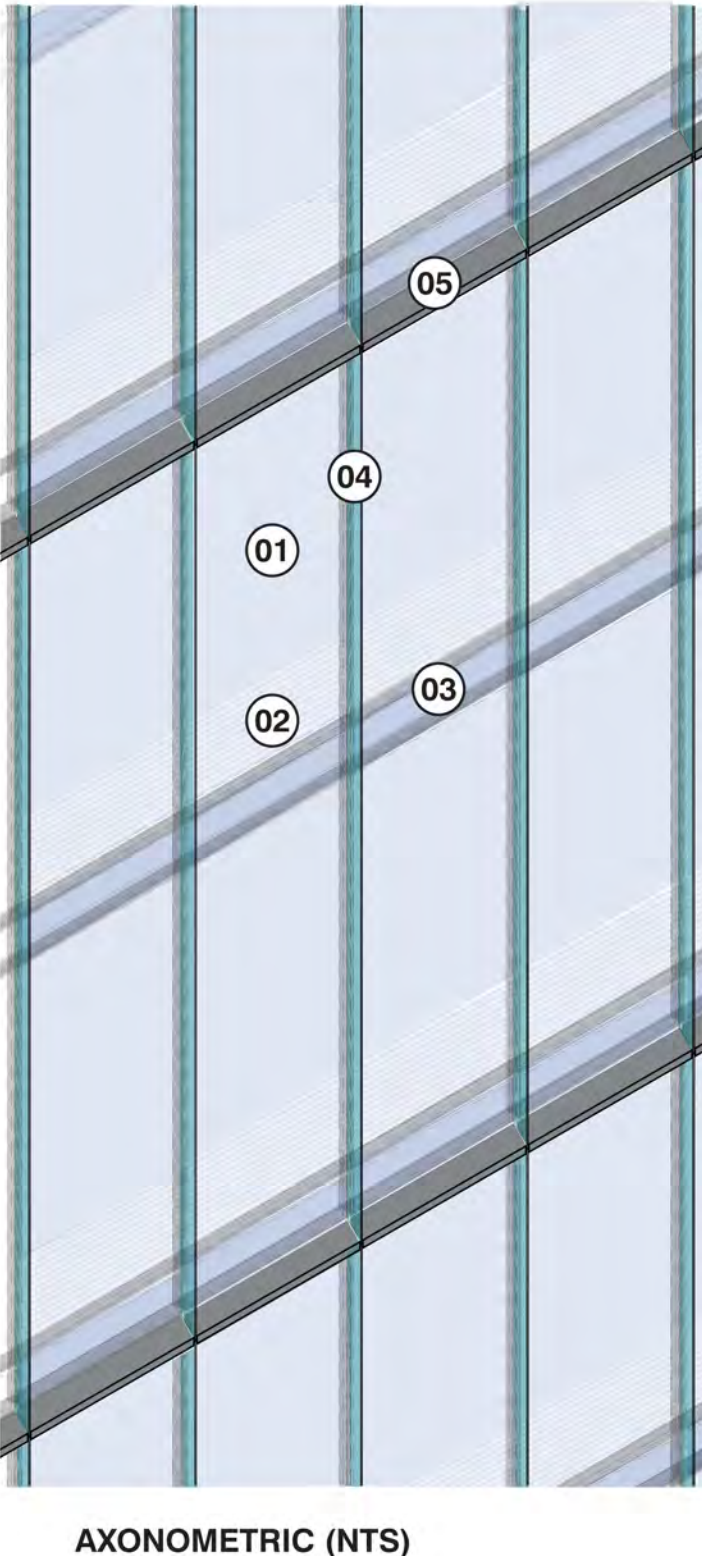
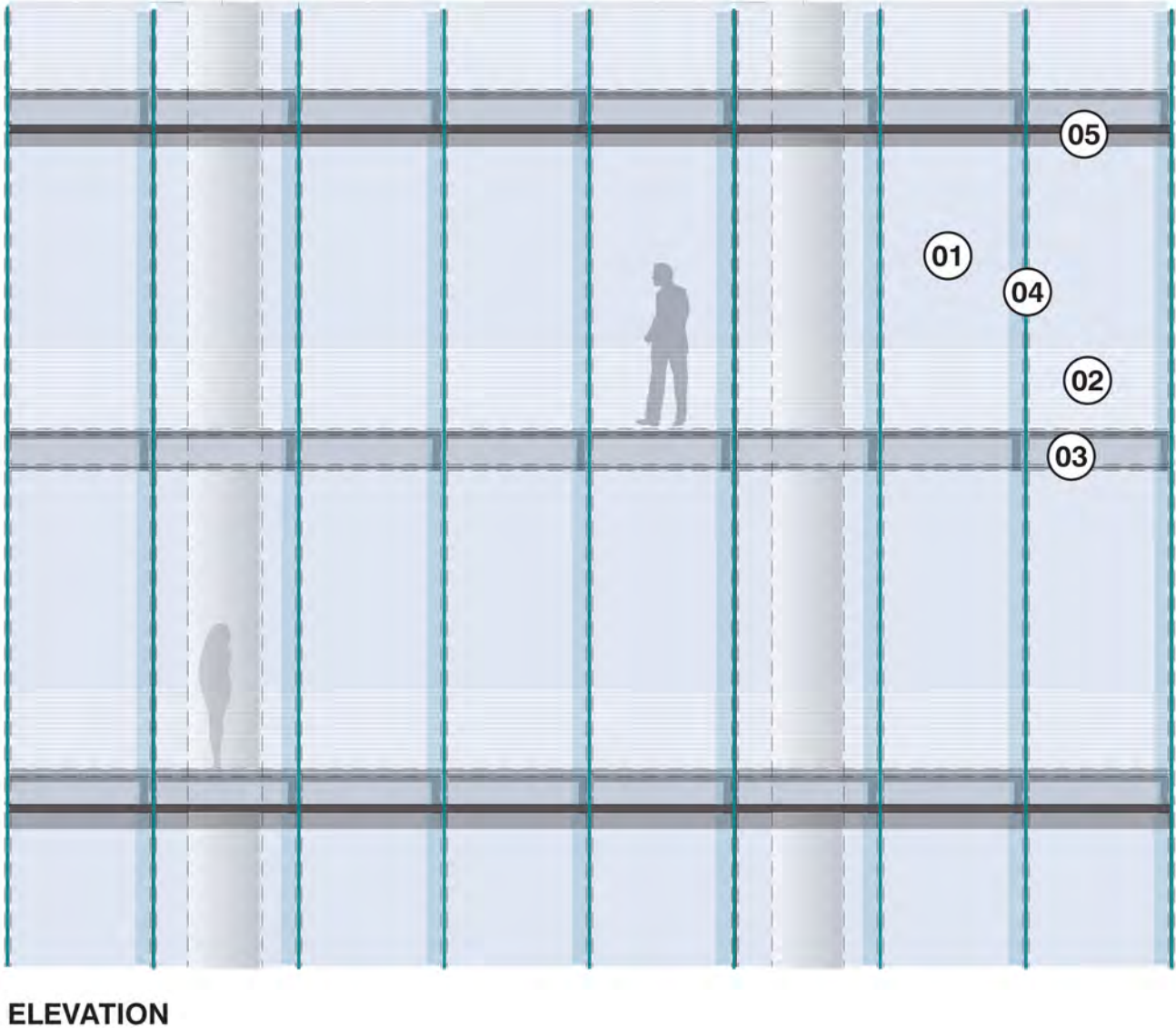
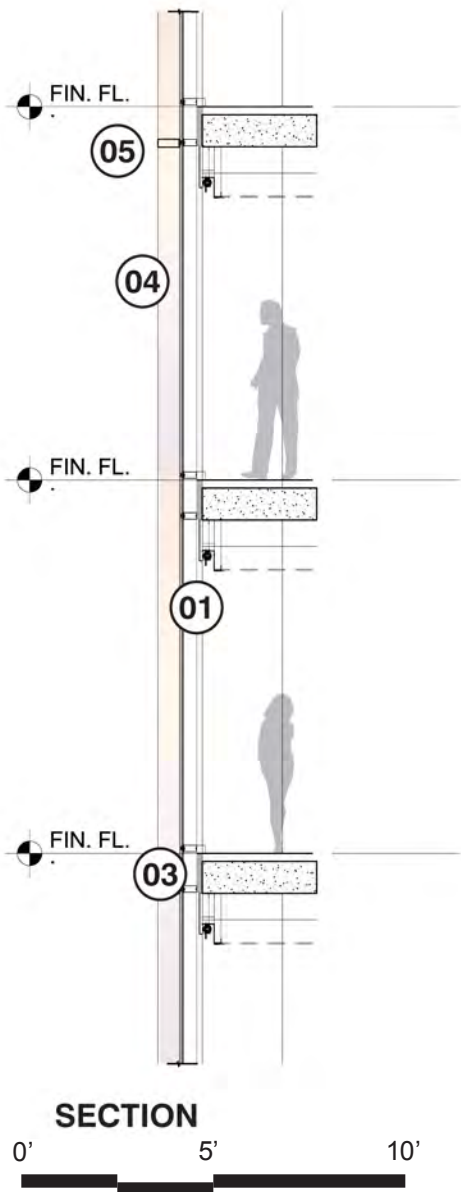
UNITIZED CURTAINWALL WITH CAPLESS MULLIONS
- 02

CLEAR LOW-E COATED & FRITTED GLASS
- 03

SHADOW BOX IN FRONT OF FLOOR SLAB EDGE
- 04

GLASS FINS
- 05

PAINTED EXTRUDED ALUMINUM HORIZONTAL TRIM



FACADE TYPE A MATERIAL AND DESIGN PRECEDENTS



NOTE:

PRECEDENT IMAGES ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
THEY ARE INTENDED TO GENERALLY DESCRIBE A SIMILAR, BUT NOT
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FACADE TYPE B (BODY) DETAIL

- 01

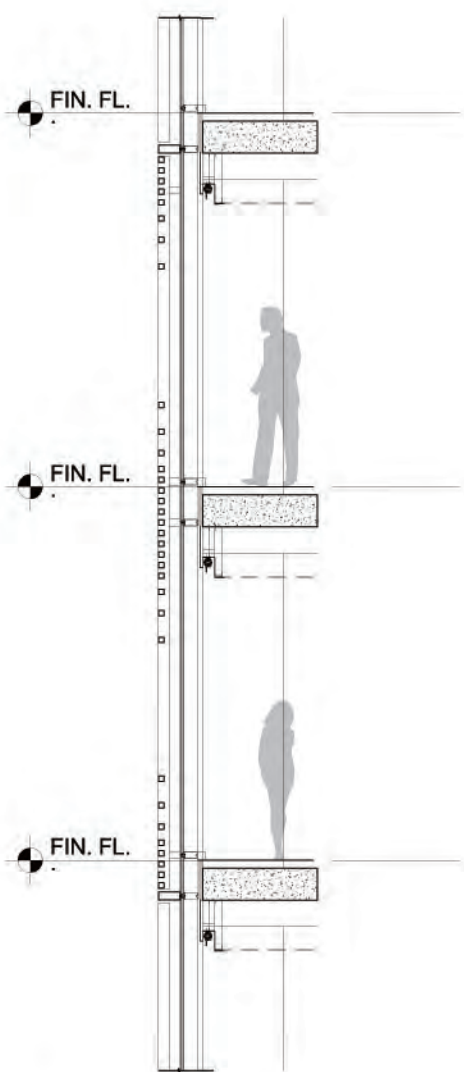
UNITIZED CURTAINWALL WITH CAPLESS MULLION
- 02

CLEAR LOW-E COATED & FRITTED GLASS
- 03

SHADOW BOX IN FRONT OF STRUCTURAL COLUNS AND FLOOR SLAB EDGE
- 04

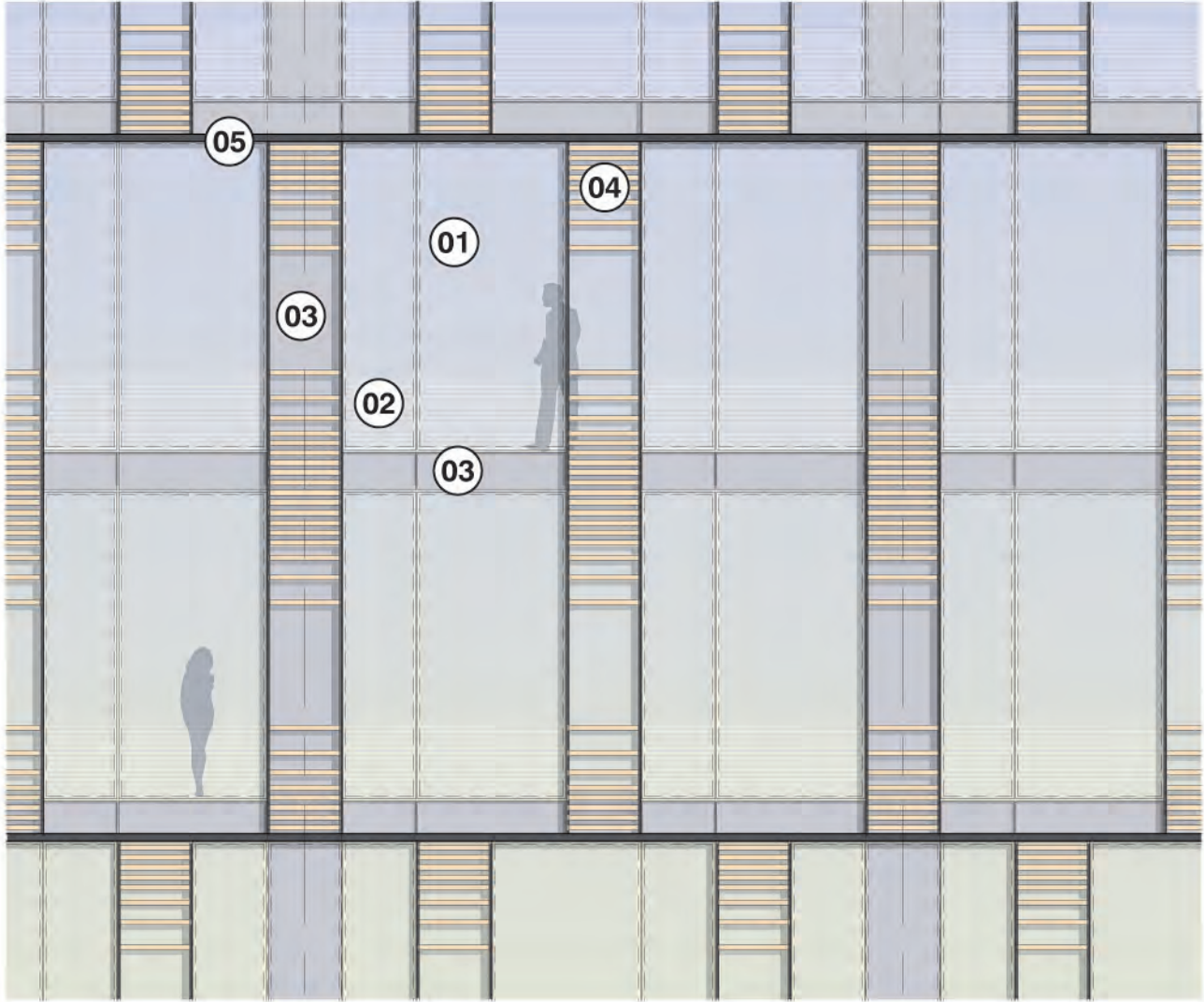
HORIZONTAL TERRACOTTA BAGUETTES
- 05

PAINTED EXTRUDED ALUMINUM HORIZONTAL TRIM

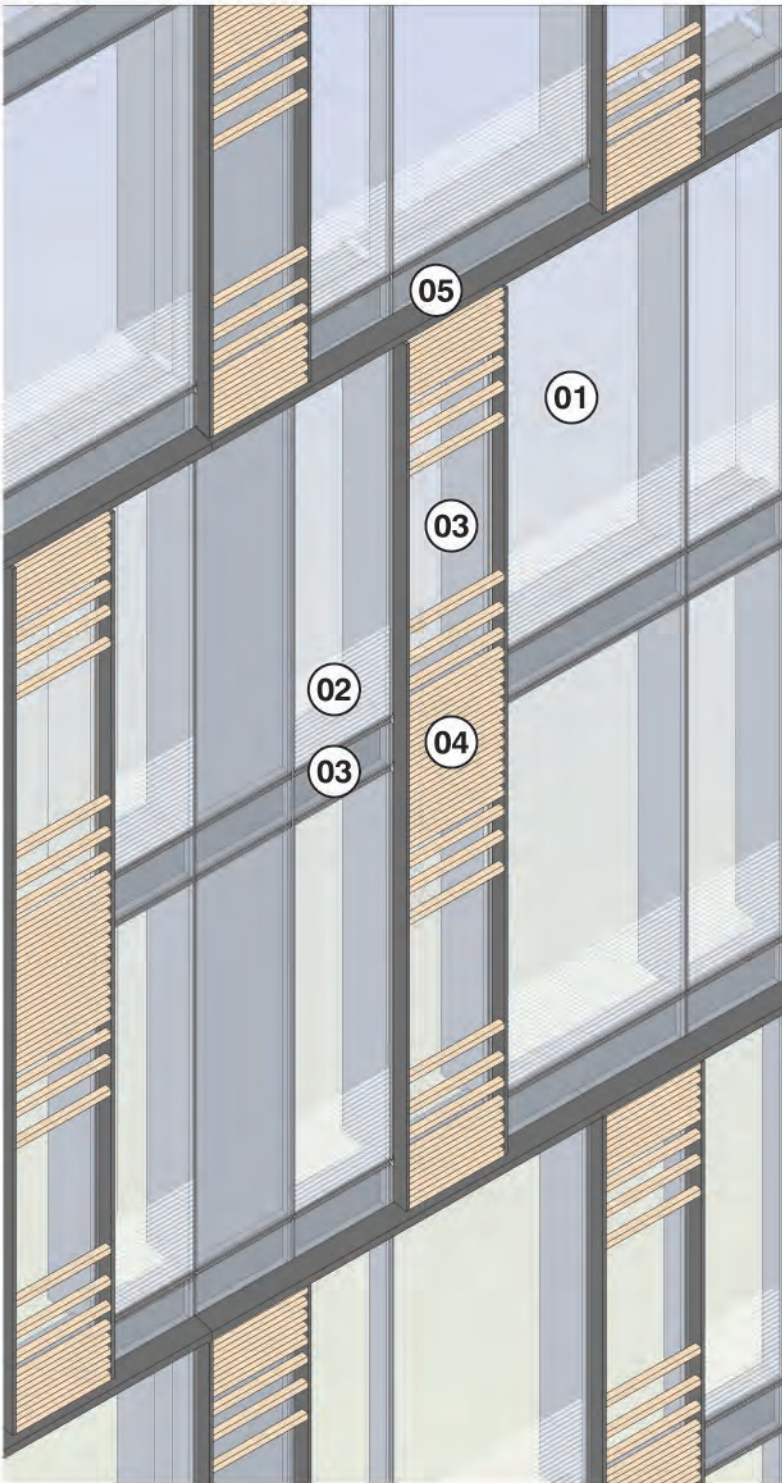


SECTION

0' 5' 10'



ELEVATION



AXONOMETRIC (NTS)

FACADE TYPE B MATERIAL AND DESIGN PRECEDENTS



NOTE:

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FACADE TYPE C (LOBBY) DETAIL

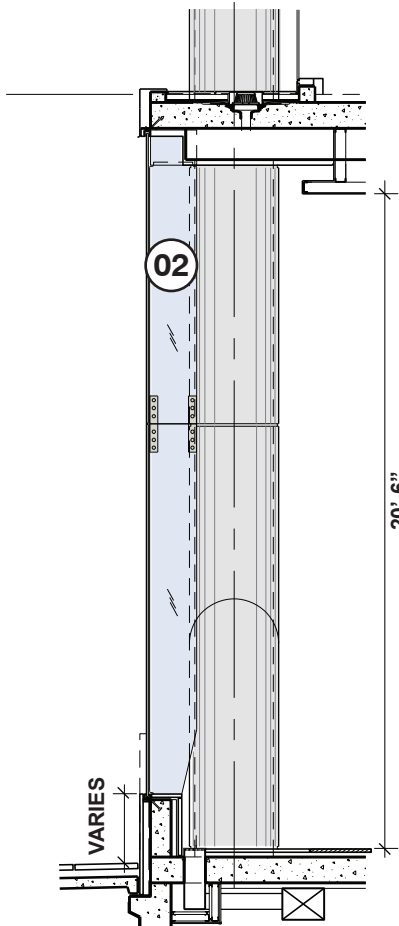
- 02

STRUCTURAL GLASS FINS AND STAINLESS STEEL FITTINGS
- 03

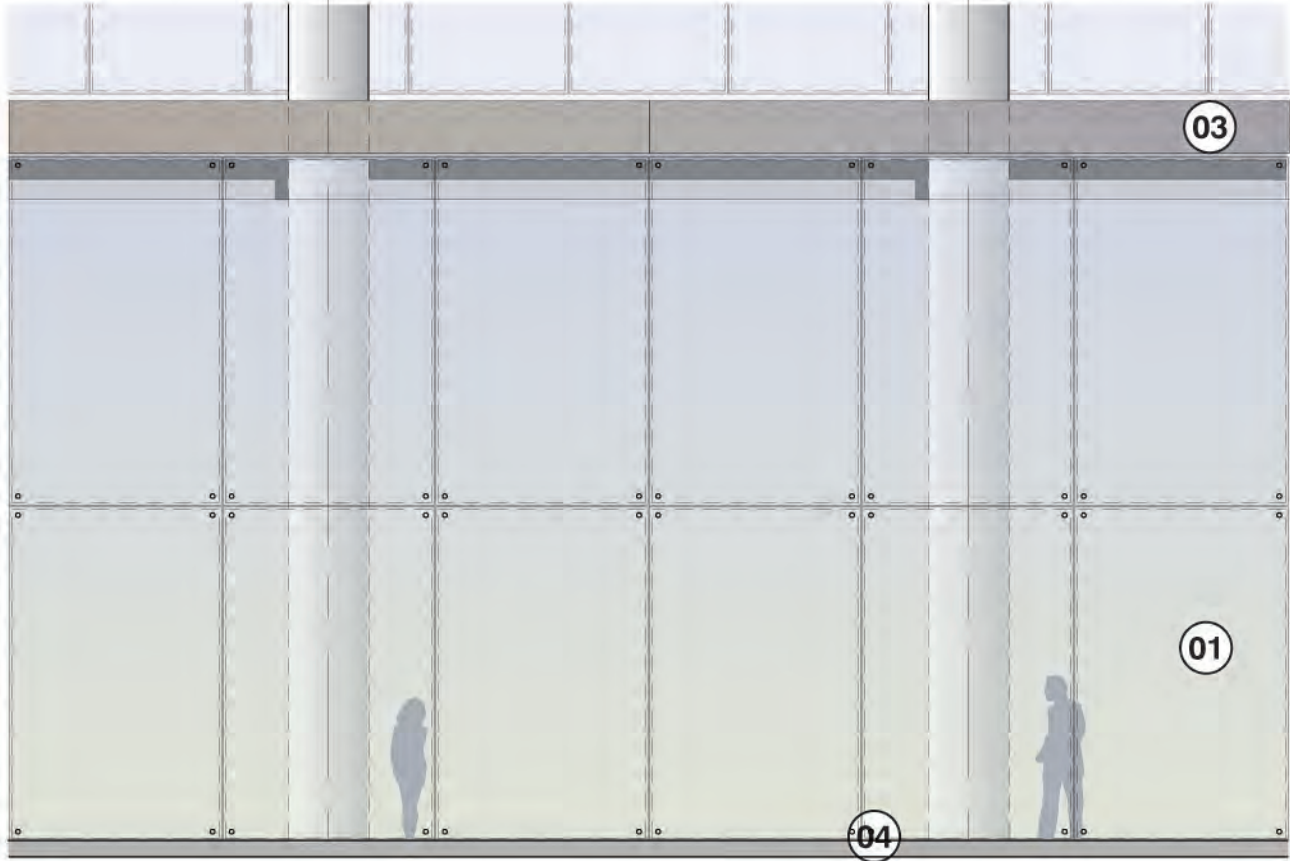
PAINTED EXTRUDED ALUMINUM
- 01

LOW IRON GLASS WITH LOW-E COATING
- 04

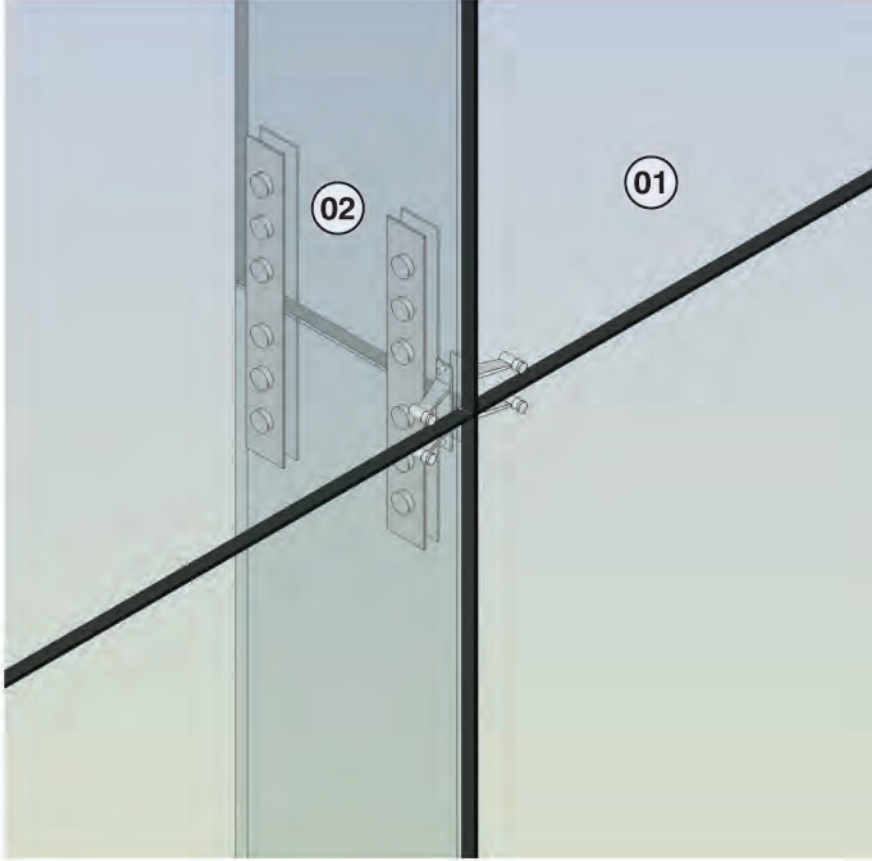
GRANITE CURB



SECTION



ELEVATION



AXONOMETRIC (NTS)

0' 5' 10'

NOTE:
GLASS PANEL SIZES AND STAINLESS STEEL FITTINGS WILL REQUIRE
ENGINEERING AND MAY VARY FROM THE STEEL SHOWN

FACADE TYPE C MATERIAL AND DESIGN PRECEDENTS



NOTE:

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FACADE TYPE D (BASE) DETAIL

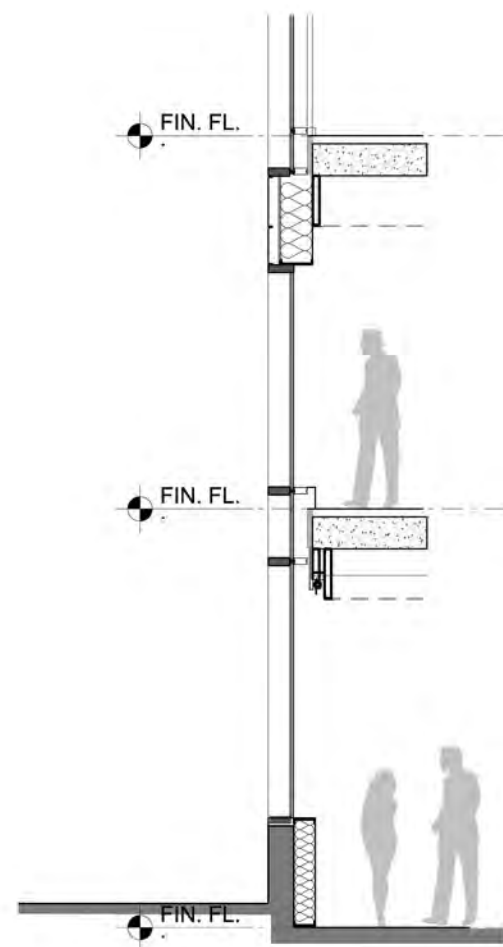
- 01

STONE PANELS
- 02

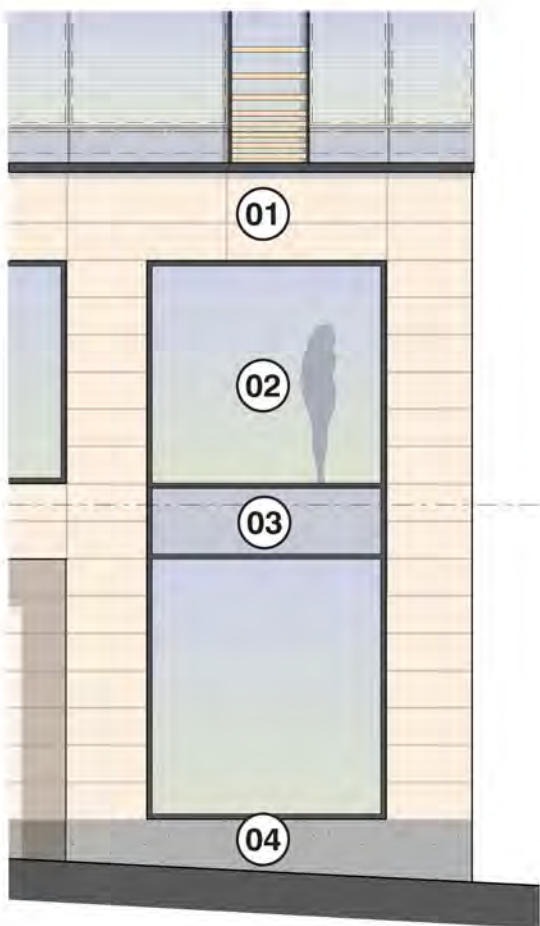
CLEAR LOW-E COATED GLASS
- 03

SHADOW BOX IN FRONT OF STRUCTURAL FLOOR SLAB EDGE
- 04

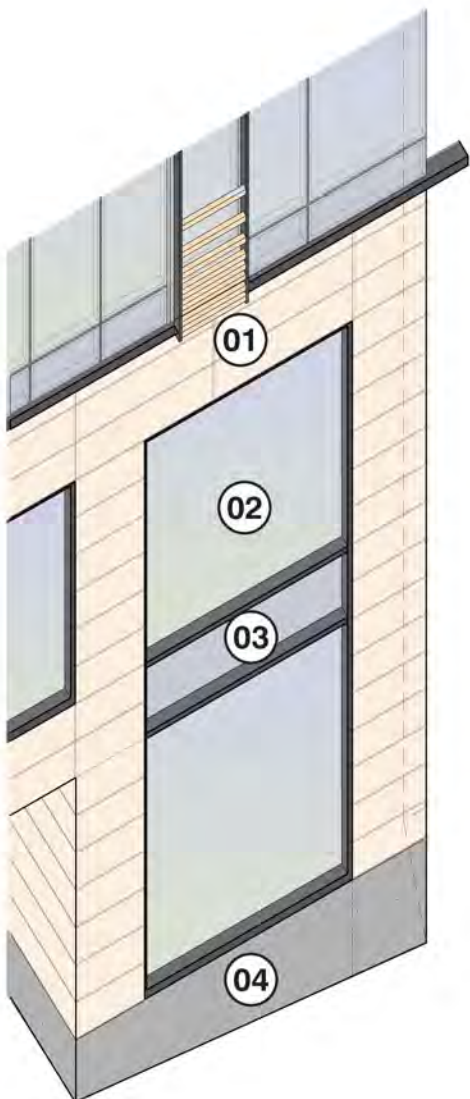
GRANITE BASE



SECTION



ELEVATION



AXONOMETRIC (NTS)



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FACADE TYPE D MATERIAL AND DESIGN PRECEDENTS



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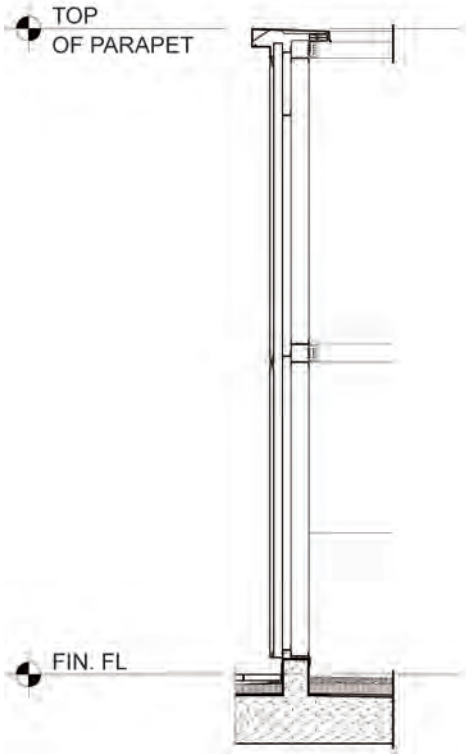
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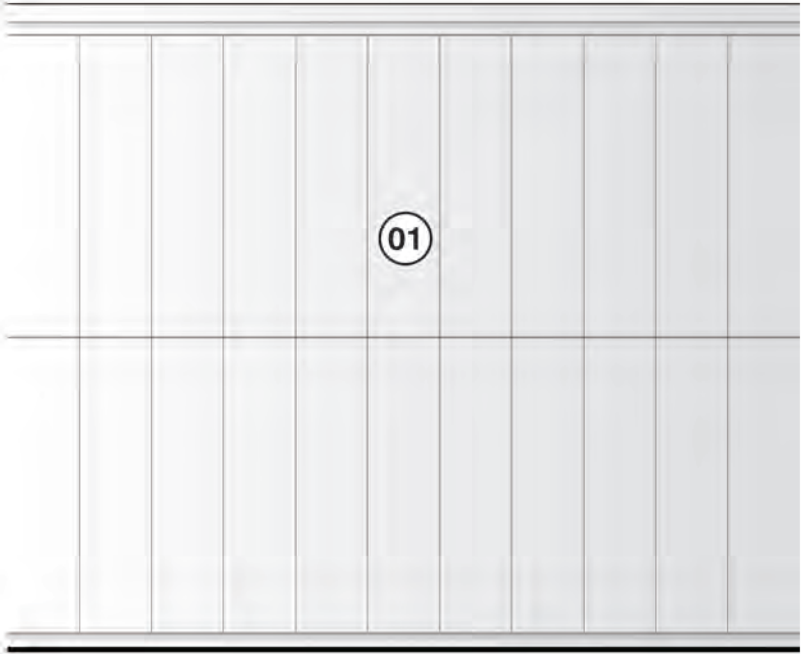
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FACADE TYPE E (MECHANICAL PENTHOUSE) DETAIL

01 METAL PANEL



SECTION



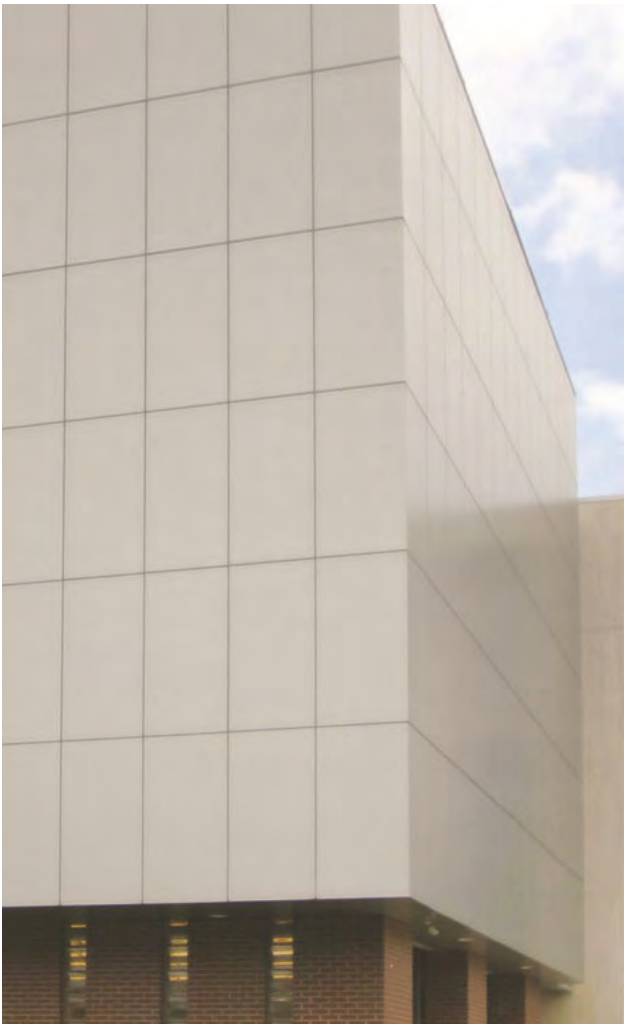
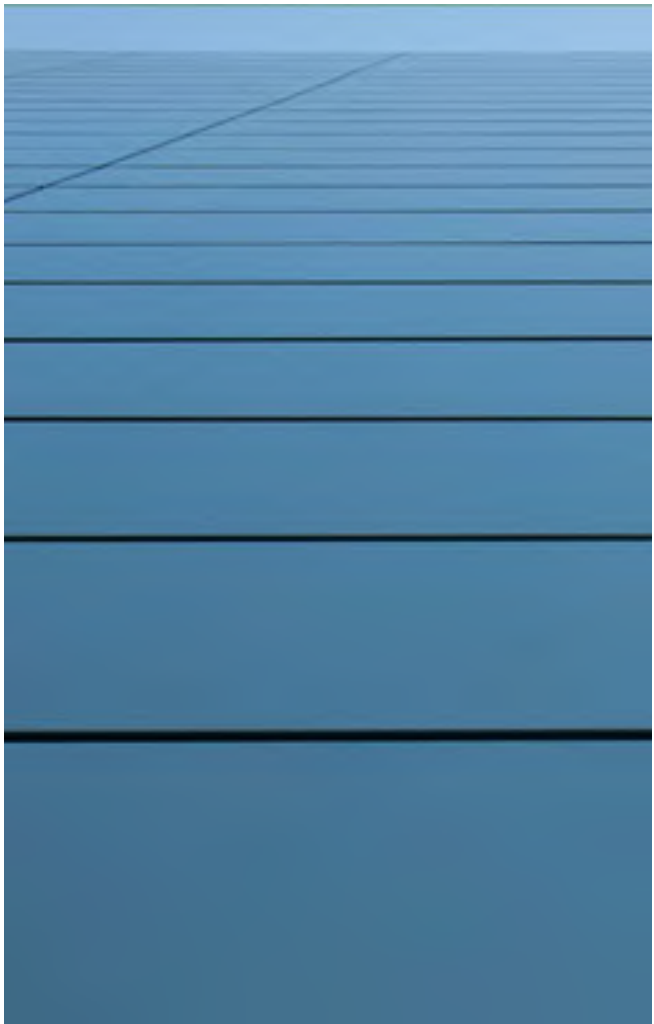
ELEVATION



AXONOMETRIC (NTS)

NOTE:
DOORS AND MECHANICAL LOUVERS WILL BE NECESSARY IN SOME LOCATION TO BE DETERMINED WITH FUTURE MECHANICAL SYSTEM DESIGN.

FACADE TYPE E MATERIAL AND DESIGN PRECEDENTS



NOTE:

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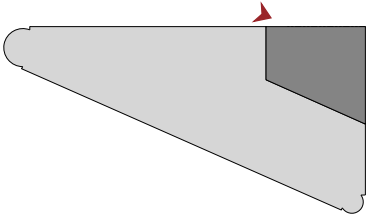
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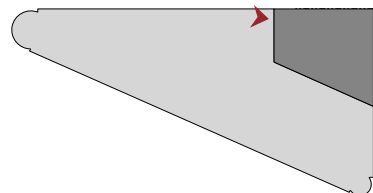
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ADDITIONAL RENDERINGS





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SUSTAINABILITY GOALS

VISION: REPOSITION A COMMERCIAL SITE IN THE GOLDEN TRIANGLE NEIGHBORHOOD, NEAR MULTIPLE MODES OF PUBLIC TRANSPORTATION INCLUDING A METRORAIL STATION, FROM A MODERATE-DENSITY PROPERTY INTO A NEW HIGH-DENSITY, LEED GOLD BUILDING ADDITION TO AN EXISTING LEED-EB HEADQUARTERS BUILDING

SUSTAINABILITY STRATEGY:

- BUILD A COMPACT, HIGH-DENSITY DEVELOPMENT ON AN UNDERUTILIZED URBAN SITE.
- LEVERAGE EXISTING PUBLIC TRANSPORTATION INVESTMENTS BY BUILDING GREATER DENSITY ON AN ESTABLISHED AND WELL CONNECTED SITE WITH A TRANSIT SCORE OF 95.
 - METRORAIL'S FOGGY BOTTOM STATION, SERVED BY THE ORANGE AND BLUE LINES, IS TWO BLOCKS TO THE WEST.
 - METRORAIL'S FARRAGUT NORTH STATION, SERVED BY THE RED LINE, IS FOUR BLOCKS TO THE EAST.
 - DC CIRCULATOR BUS STOPS ADJACENT TO THE SITE AND THERE ARE MULTIPLE METROBUS STOPS NEARBY.
 - A STREETCAR ROUTE IS PLANNED ADJACENT TO THE SITE, RUNNING ALONG K STREET.
- PROMOTE AUTOMOBILE INDEPENDENCE BY BUILDING ROUGHLY 40% FEWER PARKING SPACES THAN WOULD BE REQUIRED BY ZONING FOR A STAND-ALONE BUILDING, ON A SITE WITH A WALK SCORE OF 95.
- REDUCE ENERGY CONSUMPTION BY UTILIZING A STATE-OF-THE-ART MECHANICAL SYSTEM WITHIN A HIGH-EFFICIENCY BUILDING ENVELOPE.
- REDUCE POST-DEVELOPMENT STORM WATER RUNOFF AND HEAT ISLAND EFFECT FROM PRE-DEVELOPMENT LEVELS, LARGELY BY COMPLYING WITH NEW DDOE REQUIREMENTS ON-SITE.
- UTILIZE NEW BUILDING MATERIALS THAT COULD LARGELY BE RECYCLED.
- EMPLOY NEW BUILDING MATERIALS THAT CONTAIN RECYCLED AND LOW-V.O.C. CONTENT.





LEED 2009 for Core and Shell Development

Project Checklist

2100 K Street First Draft

#####

24	3	1	Sustainable Sites	Possible Points: 28
Y	?	N		
Y			Prereq 1 Construction Activity Pollution Prevention	
1			Credit 1 Site Selection	1
5			Credit 2 Development Density and Community Connectivity	5
		1	Credit 3 Brownfield Redevelopment	1
6			Credit 4.1 Alternative Transportation—Public Transportation Access	6
2			Credit 4.2 Alternative Transportation—Bicycle Storage and Changing Rooms	2
3			Credit 4.3 Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
2			Credit 4.4 Alternative Transportation—Parking Capacity	2
1			Credit 5.1 Site Development—Protect or Restore Habitat	1
1			Credit 5.2 Site Development—Maximize Open Space	1
	1		Credit 6.1 Stormwater Design—Quantity Control	1
	1		Credit 6.2 Stormwater Design—Quality Control	1
1			Credit 7.1 Heat Island Effect—Non-roof	1
1			Credit 7.2 Heat Island Effect—Roof	1
	1		Credit 8 Light Pollution Reduction	1
1			Credit 9 Tenant Design and Construction Guidelines	1

2	4	2	Water Efficiency	Possible Points: 10
Y				
2	2		Prereq 1 Water Use Reduction—20% Reduction	
	2		Credit 1 Water Efficient Landscaping	2 to 4
		2	Credit 2 Innovative Wastewater Technologies	2
		2	Credit 3 Water Use Reduction	2 to 4

14	9	14	Energy and Atmosphere	Possible Points: 37
Y				
Y			Prereq 1 Fundamental Commissioning of Building Energy Systems	
Y			Prereq 2 Minimum Energy Performance	
Y			Prereq 3 Fundamental Refrigerant Management	
8	3	10	Credit 1 Optimize Energy Performance	3 to 21
		4	Credit 2 On-Site Renewable Energy	4
2			Credit 3 Enhanced Commissioning	2
2			Credit 4 Enhanced Refrigerant Management	2
	3		Credit 5.1 Measurement and Verification—Base Building	3
	3		Credit 5.2 Measurement and Verification—Tenant Submetering	3
2			Credit 6 Green Power	2

8		5	Materials and Resources	Possible Points: 13
Y	?	N		
Y			Prereq 1 Storage and Collection of Recyclables	
		5	Credit 1 Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 5
2			Credit 2 Construction Waste Management	1 to 2
1			Credit 3 Materials Reuse	1
2			Credit 4 Recycled Content	1 to 2
2			Credit 5 Regional Materials	1 to 2
1			Credit 6 Certified Wood	1

8		4	Indoor Environmental Quality	Possible Points: 12
Y				
Y			Prereq 1 Minimum Indoor Air Quality Performance	
Y			Prereq 2 Environmental Tobacco Smoke (ETS) Control	
1			Credit 1 Outdoor Air Delivery Monitoring	1
1			Credit 2 Increased Ventilation	1
1			Credit 3 Construction IAQ Management Plan—During Construction	1
1			Credit 4.1 Low-Emitting Materials—Adhesives and Sealants	1
1			Credit 4.2 Low-Emitting Materials—Paints and Coatings	1
1			Credit 4.3 Low-Emitting Materials—Flooring Systems	1
1			Credit 4.4 Low-Emitting Materials—Composite Wood and Agrifiber Products	1
1			Credit 5 Indoor Chemical and Pollutant Source Control	1
		1	Credit 6 Controllability of Systems—Thermal Comfort	1
		1	Credit 7 Thermal Comfort—Design	1
		1	Credit 8.1 Daylight and Views—Daylight	1
		1	Credit 8.2 Daylight and Views—Views	1

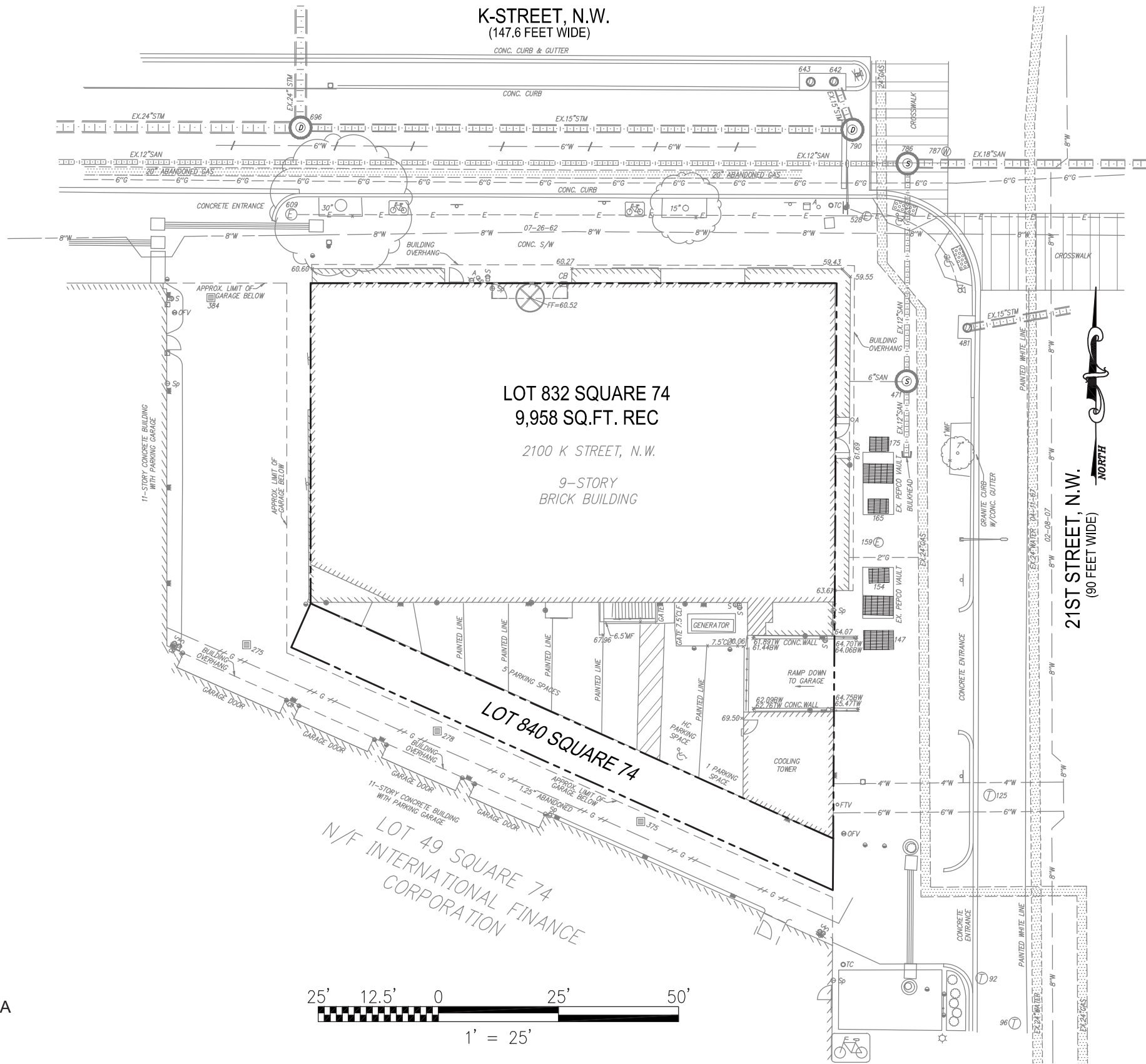
6			Innovation and Design Process	Possible Points: 6
1			Credit 1.1 Innovation in Design: Specific Title	1
1			Credit 1.2 Innovation in Design: Specific Title	1
1			Credit 1.3 Innovation in Design: Specific Title	1
1			Credit 1.4 Innovation in Design: Specific Title	1
1			Credit 1.5 Innovation in Design: Specific Title	1
1			Credit 2 LEED Accredited Professional	1

2	2		Regional Priority Credits	Possible Points: 4
1			Credit 1.1 Regional Priority: Optimize energy performance	1
1			Credit 1.2 Regional Priority: Restore habitat	1
	1		Credit 1.3 Regional Priority: Stormwater design (CISTERN)	1
	1		Credit 1.4 Regional Priority: Innovative wastewater technologies	1

64	18	26	Total	Possible Points: 110
			Certified 40 to 49 points	
			Silver 50 to 59 points	
			Gold 60 to 79 points	
			Platinum 80 to 110	

NOTE:
THIS SCORE SHEET IS INCLUDED FOR ILLUSTRATIVE PURPOSES. THE PROPOSED ADDITION WILL BE LEED GOLD AS A MINIMUM. THE FINAL CREDIT TALLY MAY VARY.

SITE SURVEY/EXISTING CONDITIONS PLAN



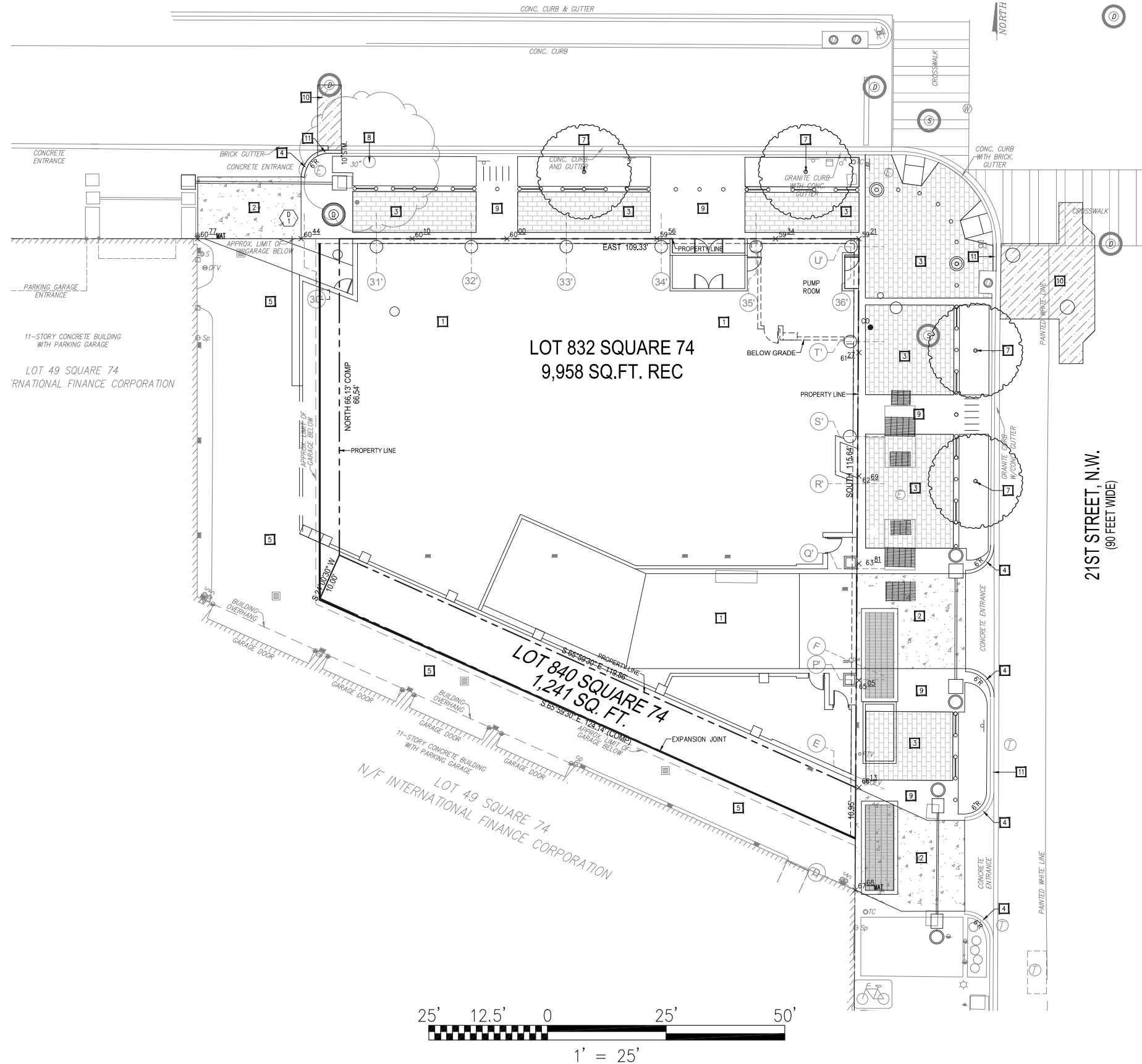
NOTE:

THE ENTIRETY OF SQUARE 74 IS
CURRENTLY BEING SUBDIVIDED INTO A
SINGLE LOT OF RECORD

25' 12.5' 0 25' 50'

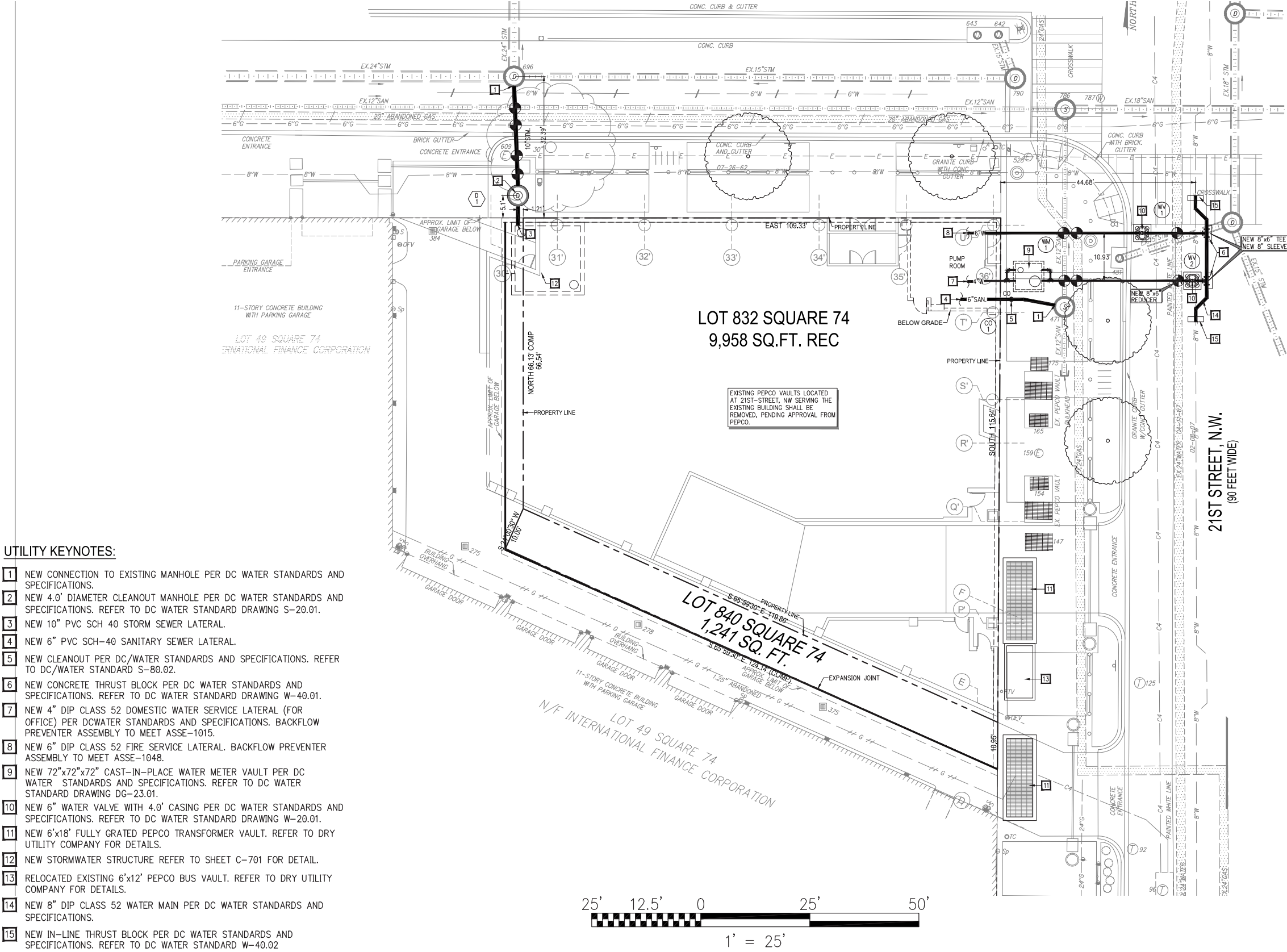
1' = 25'

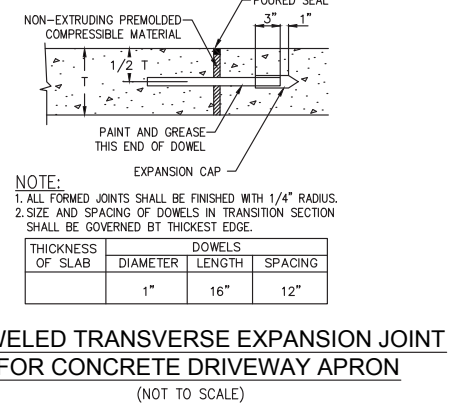
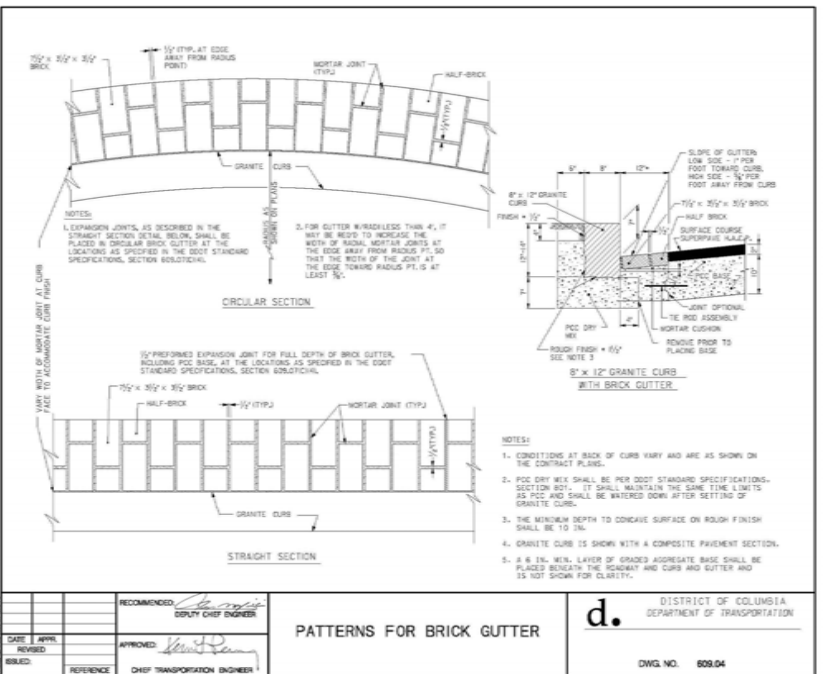
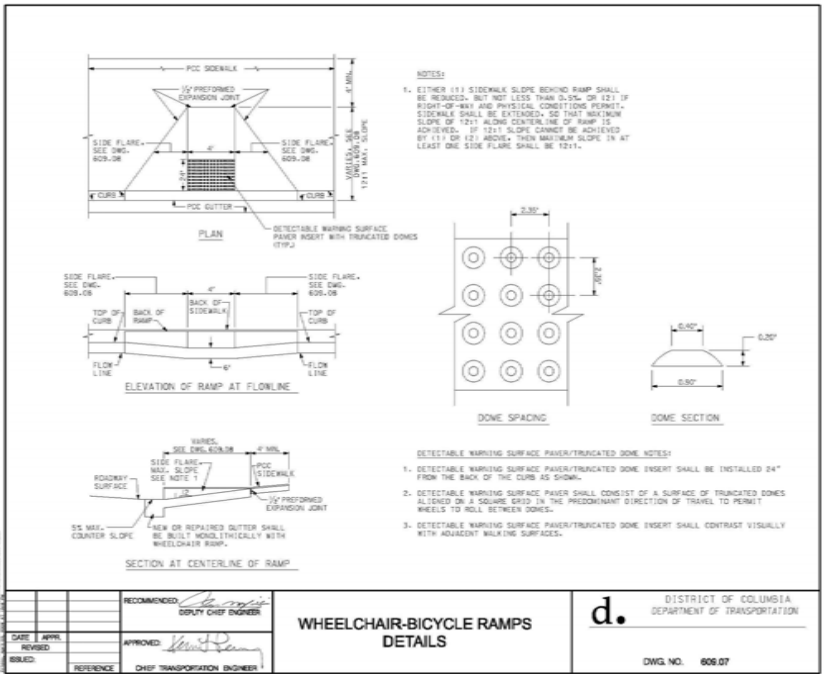
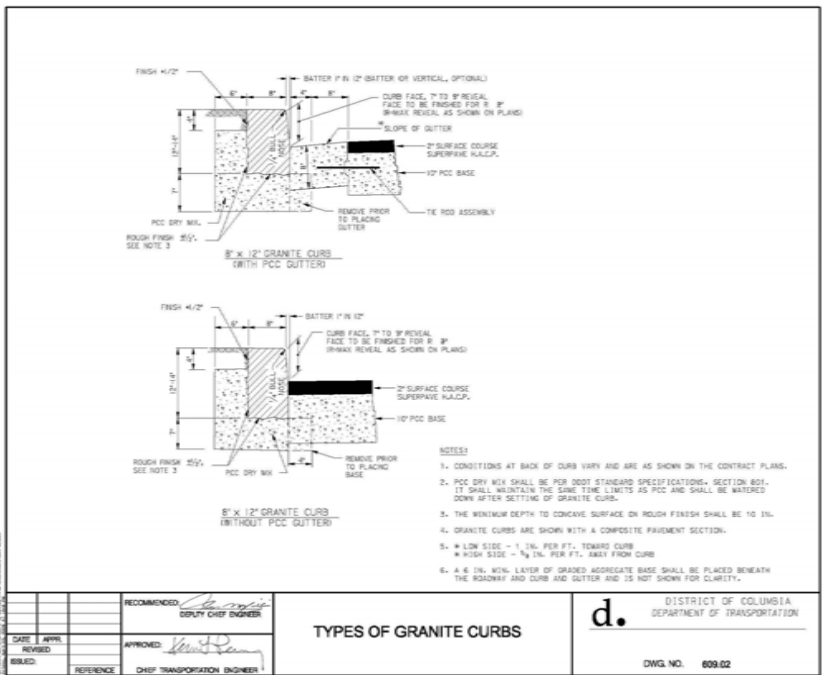
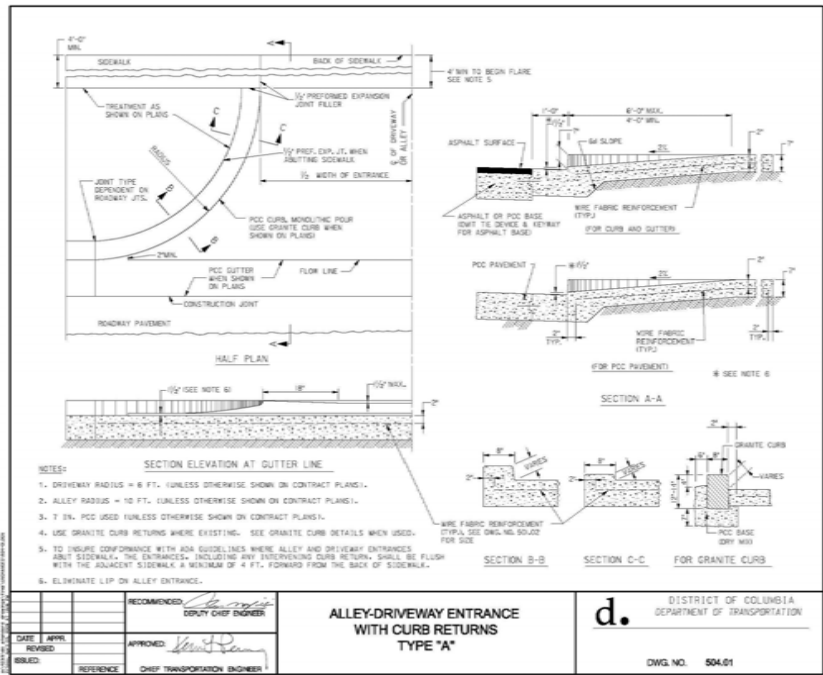
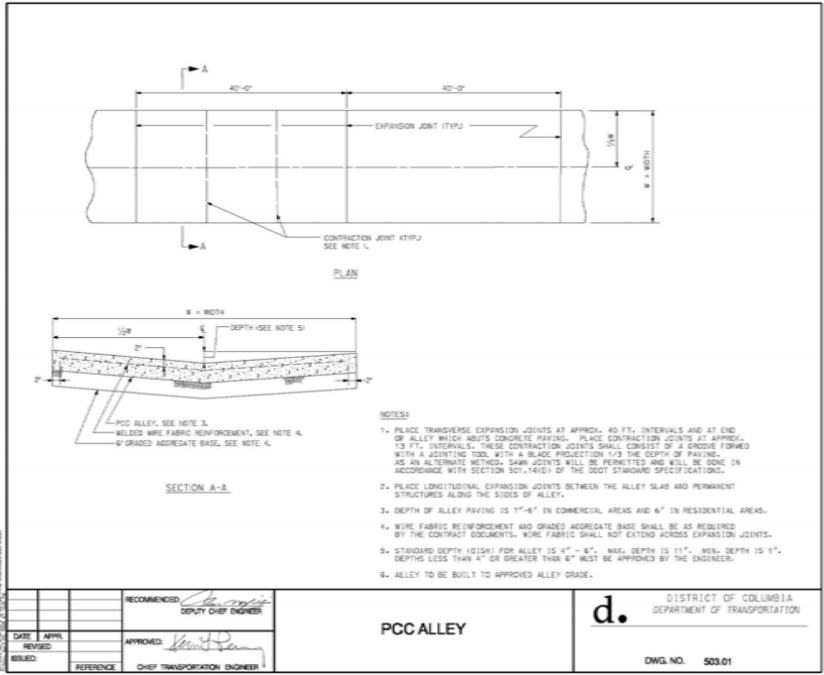
SITE PLAN



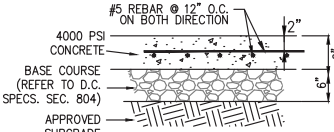
- SITE KEYNOTES:**
- 1 NEW BUILDING. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
 - 2 NEW CONCRETE DRIVEWAY PAVEMENT. REFER TO SHEET C-106 FOR DETAILS.
 - 3 NEW BRICK PAVING TO MATCH EXISTING. SEE LANDSCAPE PLAN FOR DETAILS.
 - 4 RECONSTRUCTED DRIVEWAY ENTRANCE CURB CUT WITH 6'-0" RADIUS PER DC/DDOT STANDARDS AND SPECIFICATIONS IF REQUIRED. SEE SHEET C-502 FOR DETAILS.
 - 5 NEW ALLEY CONCRETE PAVEMENT. REFER TO SHEET C-106 FOR DETAIL.
 - 6 NOT USED.
 - 7 NEW STREET TREE. REFER TO LANDSCAPE DRAWING FOR SPECIES AND DETAILS.
 - 8 EXISTING TREE TO REMAIN.
 - 9 NEW GRANITE PAVING TO MATCH EXISTING. SEE LANDSCAPE PLAN FOR DETAILS.
 - 10 NEW ASPHALT PAVEMENT AT FULL DEPTH PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET C-106 FOR DETAILS.
 - 11 NEW GRANITE CURB AND CONCRETE GUTTER PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET C-106 FOR DETAILS.

SITE UTILITY PLAN





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

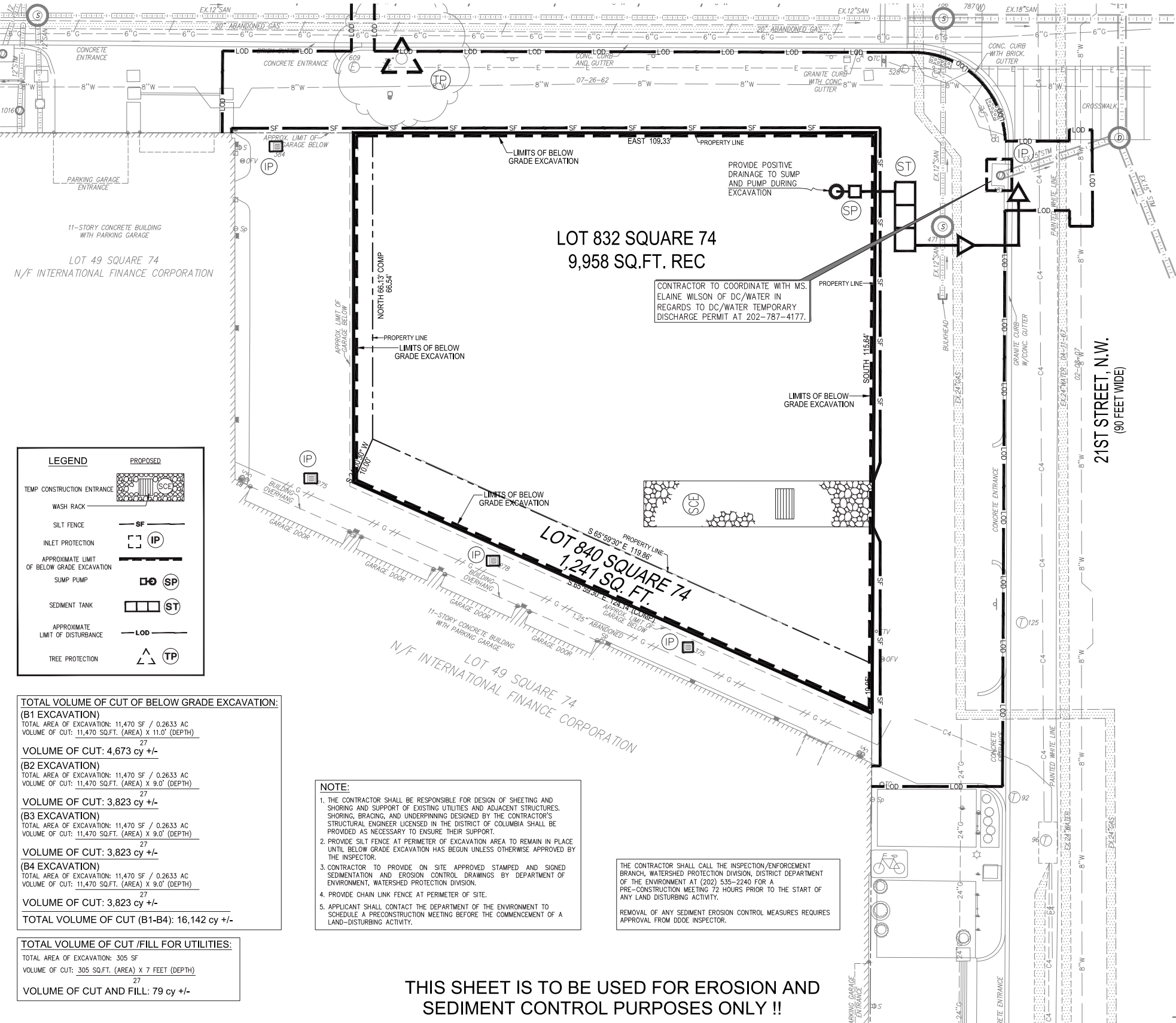


NOTE: PER DC/DDOT STANDARDS AND SPECIFICATIONS

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)

SEDIMENT AND EROSION CONTROL PLAN



CONSTRUCTION DATES:

- * THE PROPOSED DEMOLITION WORK DUE TO COMMENCE IN FALL 2014 AND IS ANTICIPATED TO TAKE APPROXIMATELY 24 MONTHS.
- * EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL AREA OF DISTURBANCE:

TOTAL AREA OF DISTURBANCE: 22,150 SQUARE FEET OR 0.5085 AC

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
 - B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
 - C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
 - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
 - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED TREE PROTECTION, AND SILT FENCE AS INDICATED ON SHEET C1.03. SEE SHEET C5.01 FOR SEDIMENTATION AND EROSION CONTROL DETAILS.
2. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN.
4. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
5. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

SEDIMENTATION EROSION CONTROL NOTE:

THE APPLICANT MUST NOTIFY THE DISTRICT DEPT OF ENVIRONMENT (DDOE) BY PHONE (202-535-2250) AT LEAST 24 HOURS PRIOR TO THE START OF GRADING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF HEALTH MUST BE NOTIFIED IMMEDIATELY.

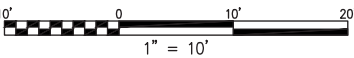
SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY. CALL 202-535-2977 FOR APPOINTMENT.

LAND DISTURBANCE ACTIVITY NOTE:

A PERSON RESPONSIBLE FOR LAND DISTURBANCE IS TO BE PRESENT OR AVAILABLE AT ALL TIMES WHILE SITE IS IN A PHASE INVOLVING LAND DISTURBING ACTIVITY.

THE RESPONSIBLE PERSON IS RESPONSIBLE FOR INSPECTION OF THE SITE E&S CONTROL MEASURES BIWEEKLY AND AFTER RAINFALL EVENTS. AVAILABILITY TO RESPOND TO POTENTIAL EROSION PROBLEMS AS THEY OCCUR AND AVAILABILITY TO SPEAK ON SITE WITH DDOE TO REMEDY POTENTIAL PROBLEMS.

THE RESPONSIBLE PERSON IS TO HAVE AVAILABLE ON SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DEPARTMENT APPROVED TRAINING PROGRAM IN COMPLIANCE OF RESPONSIBLE PERSON DESIGNATION.



SEDIMENT CONTROL DETAILS

DETAIL 1 - STABILIZED CONSTRUCTION ENTRANCE CONSTRUCTION SPECIFICATIONS - LENGTH - MINIMUM OF 50' (NOT FOR SINGLE RESIDENCE LOT). - WIDTH - 10' MINIMUM, SHOULD BE PLACED 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 SIZE 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 SITES 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 1-1-1 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 ON 1/4" DIAMETER (MIN) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD 1" OR 1 1/2" DIAMETER (MIN) WITH 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: - TENSILE STRENGTH: 50 LBS/IN (MIN) TEST: ASTM D-4955 - TENSILE MODULUS: 20 LBS/IN (MIN) TEST: ASTM D-4955 - FLOW RATE: 0.3 GAL/72" MINUTE (MAX) TEST: ASTM D-5541 72S (MIN) TEST: ASTM D-5541 - 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 SIDE OF THE FABRIC REACHED TO THE FLOOR OF THE TRAP. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 4-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 6A - STANDARD INLET PROTECTION CONSTRUCTION SPECIFICATIONS - EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18" 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 F TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 18" 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 6A-1-1 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" x 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FLOW RESISTANCE. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 6B-1-1 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' WIRE 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' WIRE. - SECURELY NAIL THE 2' x 4' WIRE TO A 6" LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WIRE 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 WIRE 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 PLACED 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 CURB 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 FLOOD DOES NOT PREVENT THE INLET BY INSTALLING A TEMPORARY CLOSURE DURING DRY WEATHER TO DIRECT THE FLOOD TO THE INLET. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 6C-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 6E - AT GRADE INLET GUARD CONSTRUCTION SPECIFICATIONS - 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 6E-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH
DETAIL 9 - EARTH DIKE CONSTRUCTION SPECIFICATIONS - SEED AND COVER WITH STRAW MULCH. - SEED AND COVER WITH SOIL STABILIZATION, MATING OR LINE WITH SOD. 4"-7" STONE OR RECYCLED CONCRETE EQUIVALENT PRESSED INTO THE SOIL 1" MINIMUM. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 9-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 11 - PERIMETER DIKE / SWALE CONSTRUCTION SPECIFICATIONS - ALL PERIMETER DIKE/SWALES SHALL HAVE AN 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 THREE, BRUSH, STAMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF 50' AWAY 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 WEAR 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 11-1-1 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 TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. - THE TOTAL VOLUME AS MEASURED FROM THE BOTTOM TO THE RISER CREST ELEVATION SHALL BE 3600 CUBIC FEET PER ACRE OF DRAINAGE AREA (SEE TABLE 1). 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 WET STORAGE DEPTH OF THE TRAP (900 CF/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 12-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	PIPE OUTLET SEDIMENT TRAP - ST I CONSTRUCTION SPECIFICATIONS - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE AVOIDED. 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 DURING THE LIFE OF THE TRAP. - THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. - ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER. - ALL PIPE CONNECTIONS SHALL BE WATER TIGHT. - ABOVE THE NET STORAGE ELEVATION, THE RISER SHALL BE PERFORATED WITH 1/2" WIDE BY 6" LONG SLOTS OR 1" DIAMETER HOLES SPACED 6" VERTICALLY AND HORIZONTALLY. NO PERFORATIONS WILL BE ALLOWED WITHIN 6" OF THE HORIZONTAL BARREL. - THE RISER SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH (WIRE) THEN WRAPPED WITH GEOTEXTILE CLASS E. THE FILTER CLOTH SHALL EXTEND 6" ABOVE THE HIGHEST SLOT AND 6" BELOW THE LOWEST SLOT. WHERE ENDS OF FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND FASTENED TO PREVENT BYPASS. FILTER CLOTH SHALL BE REPLACED AS NECESSARY TO PREVENT CLOGGING. - STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH. STEEL PLATE TWO TIMES THE RISER DIAMETER SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. - THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. CONCRETE BASES SHALL BE AT LEAST THREE TIMES THE RISER DIAMETER, 1/4" MINIMUM THICKNESS AND ATTACHED TO THE BOTTOM OF THE RISER BY A CONTINUOUS WELD TO FORM A WATER TIGHT CONNECTION. THEN PLACE 2" OF STONE, GRAVEL OR TAMPED EARTH ON THE PLATE. - ALL SEEP COLLARS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS (REF. TABLE 18 AND DETAILS 17 AND 18). U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 12-1-2 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 TRAVELING 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 SMALL 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 WET 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 13-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	STONE OUTLET SEDIMENT TRAP - ST II CONSTRUCTION SPECIFICATIONS - THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. - CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS AVOIDED. 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 DURING THE LIFE OF THE TRAP. - THE STRUCTURE SHALL BE DEMATERED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. - REFER TO SECTION G FOR SPECIFICATIONS CONCERNING TRAP DEMATERING. - MINIMUM TRAP DEPTH SHALL BE MEASURED FROM THE WIRE ELEVATION. - THE ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO THE TRAP MUST EQUAL OR EXCEED THE ELEVATION OF THE TRAP EMBANKMENT. - GEOTEXTILE CLASS SE SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO THE PLACEMENT OF STONE SECTIONS OF FILTER CLOTH MUST OVERLAP AT LEAST 1" WITH THE SECTION NEAREST THE ENTRANCE PLACED ON TOP. THE FILTER CLOTH SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT THE ENTRANCE OF THE OUTLET CHANNEL. - OUTLET - AN OUTLET SHALL BE PROVIDED, INCLUDING A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION FREE MANNER TO AN EXISTING STABLE CHANNEL. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 13-1-2 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 TRAVELING 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. SECTION OF FABRIC MUST OVERLAP AT LEAST 1" WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL. - STONE USED IN THE OUTLET CHANNEL SHALL BE 4" - 12" PLACED 18" THICK. - OUTLET - AN OUTLET SHALL BE PROVIDED, WHICH INCLUDES A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION FREE MANNER TO AN EXISTING STABLE CHANNEL. PROTECTION AGAINST SCOUR AT THE DISCHARGE END SHALL BE PROVIDED AS NECESSARY. - OUTLET CHANNEL MUST HAVE POSITIVE DRAINAGE FROM THE TRAP. - SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/4 OF THE WET STORAGE DEPTH OF THE TRAP (1350 CF/AC). REMOVED 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 REPAIRED AS NEEDED. - CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS AVOIDED. 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 DURING THE LIFE OF THE TRAP. - THE STRUCTURE SHALL BE DEMATERED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 14-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	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 TRAVELING 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. SECTION OF FABRIC MUST OVERLAP AT LEAST 1" WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL. - STONE USED IN THE OUTLET CHANNEL SHALL BE 4" - 12" PLACED 18" THICK. - OUTLET - AN OUTLET SHALL BE PROVIDED, WHICH INCLUDES A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION FREE MANNER TO AN EXISTING STABLE CHANNEL. PROTECTION AGAINST SCOUR AT THE DISCHARGE END SHALL BE PROVIDED AS NECESSARY. - OUTLET CHANNEL MUST HAVE POSITIVE DRAINAGE FROM THE TRAP. - SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/4 OF THE WET STORAGE DEPTH OF THE TRAP (1350 CF/AC). REMOVED 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 REPAIRED AS NEEDED. - CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS AVOIDED. 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 DURING THE LIFE OF THE TRAP. - THE STRUCTURE SHALL BE DEMATERED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 14-1-2 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 22 - SEDIMENT BASIN/TRAP BAFFLES 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 TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. - THE TOTAL VOLUME AS MEASURED FROM THE BOTTOM TO THE RISER CREST ELEVATION SHALL BE 3600 CUBIC FEET PER ACRE OF DRAINAGE AREA (SEE TABLE 1). 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 WET STORAGE DEPTH OF THE TRAP (900 CF/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 22-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 34 - PORTABLE SEDIMENT TANK (HORIZONTAL) 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 34-1-1 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 35-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH	DETAIL 74 - TREE PROTECTION CONSTRUCTION SPECIFICATIONS - ALL PROTECTIVE FENCING SHALL EXTEND BEYOND THE TREE DIAPHRANE. - ALL PROTECTIVE FENCING SHALL EXTEND BEYOND THE TREE DIAPHRANE. - ALL PROTECTIVE FENCING SHALL EXTEND BEYOND THE TREE DIAPHRANE. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE PAGE 74-1-1 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH



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March 03, 2014

Update July 10, 2014

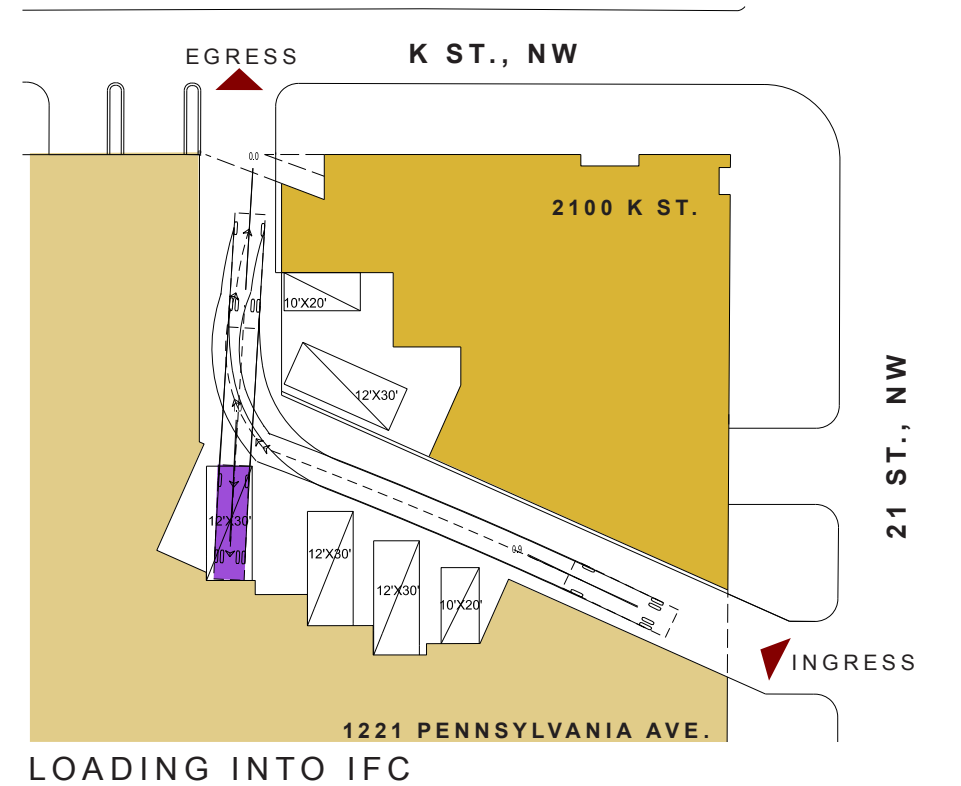
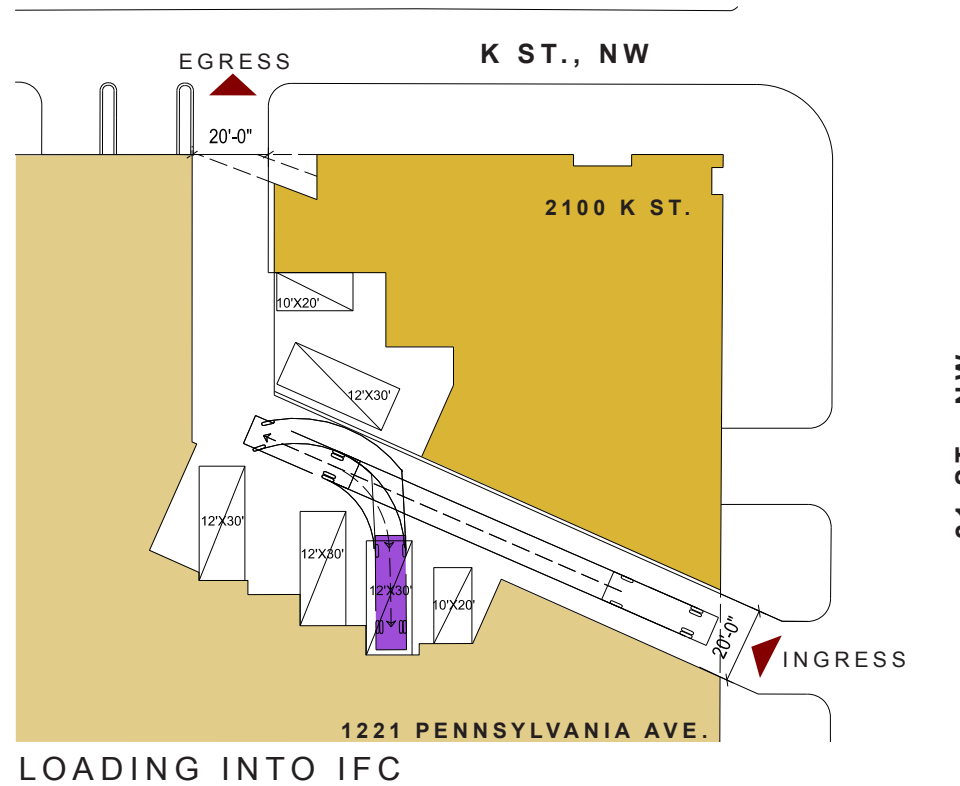
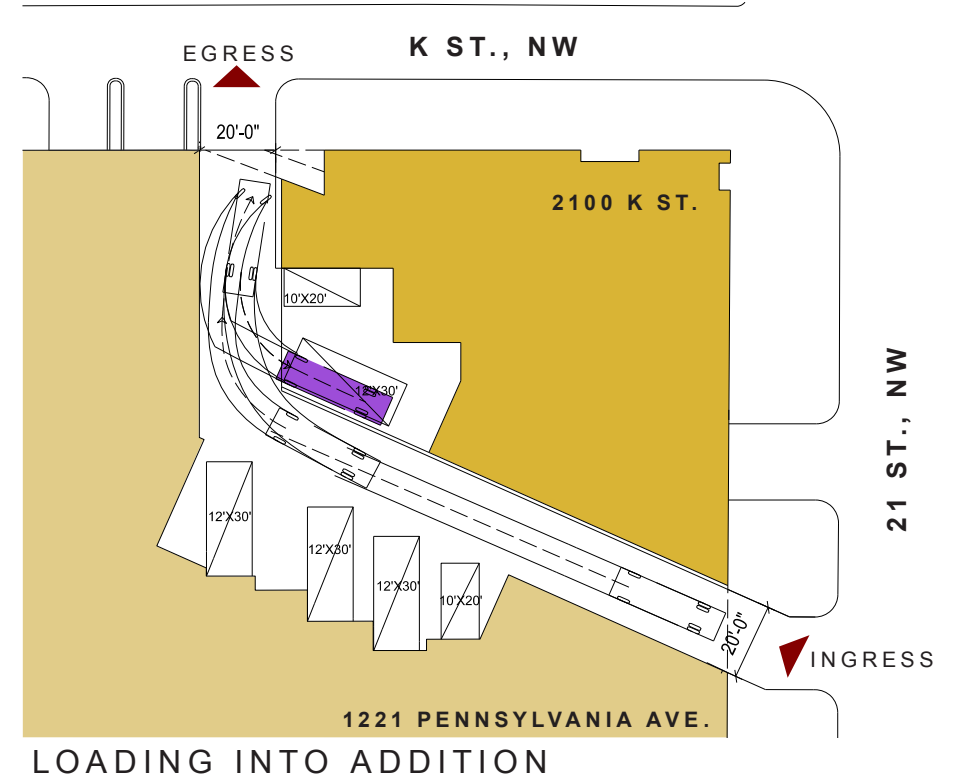
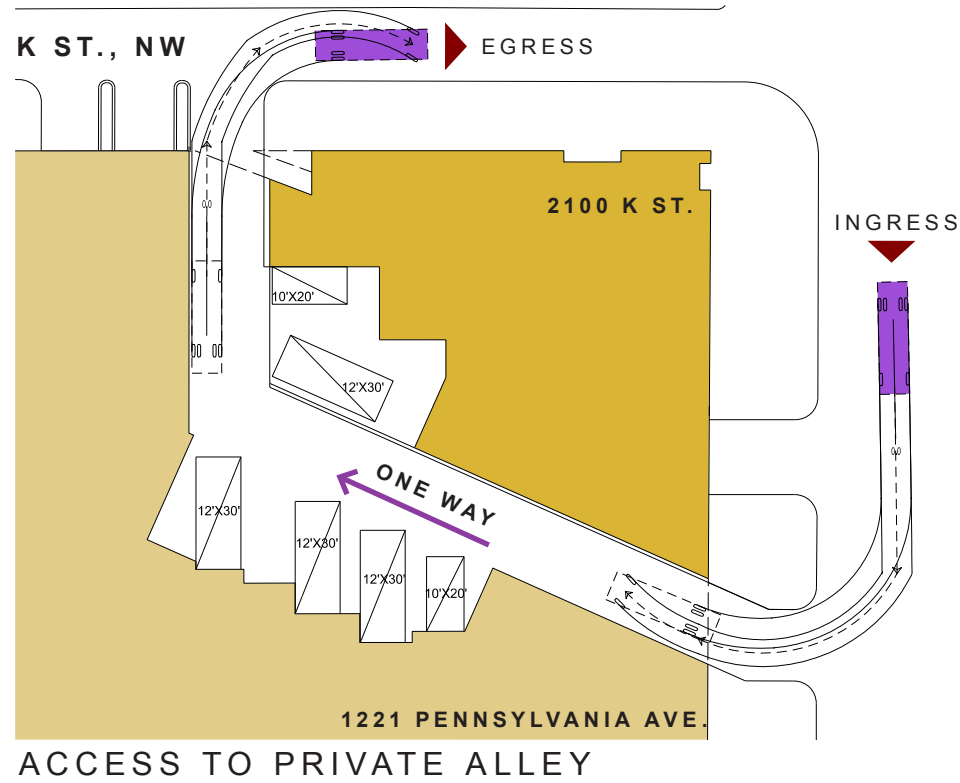


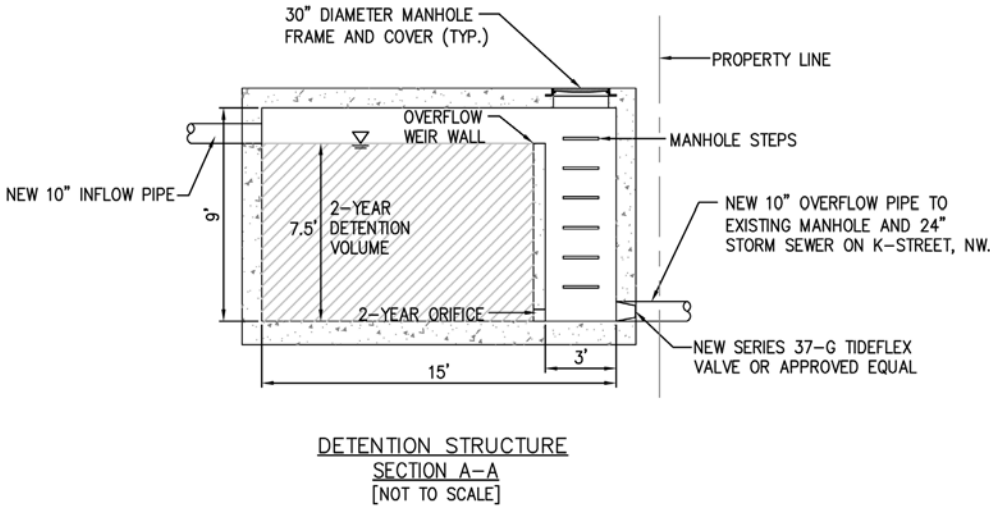
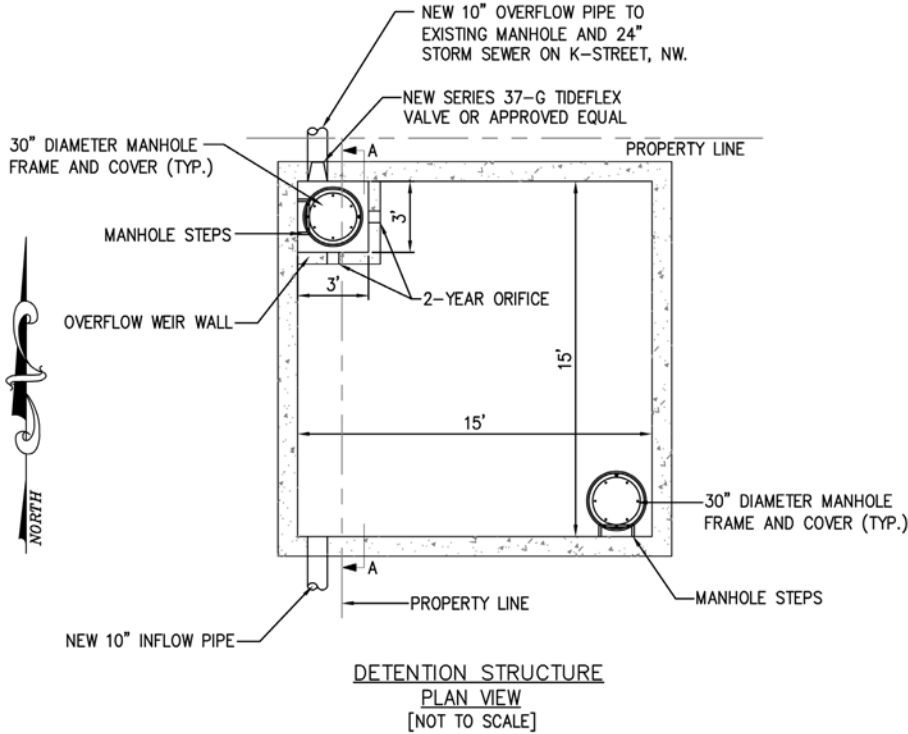
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TRUCK TURNING DIAGRAMS





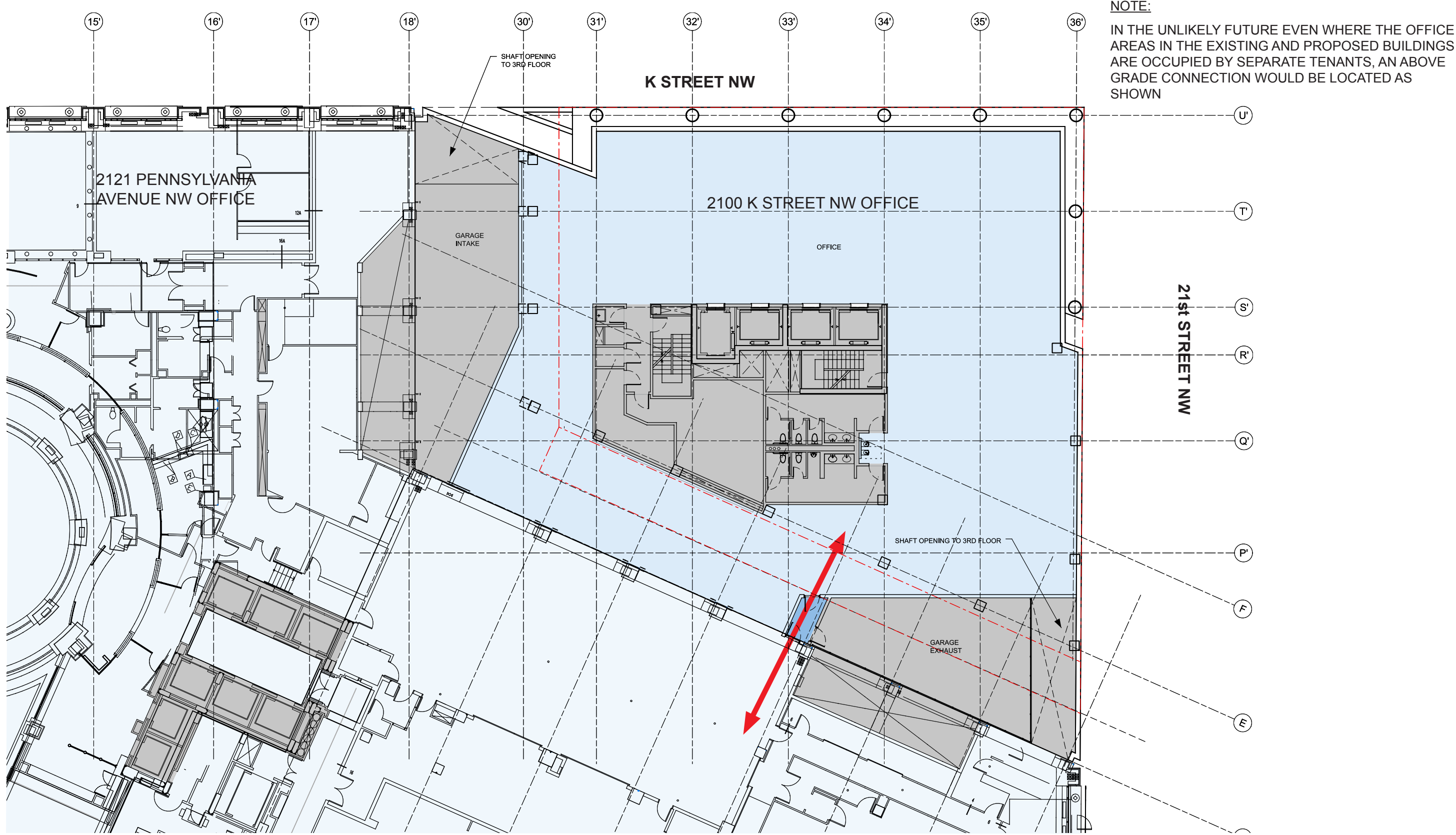
DDOE Detention Requirements - 2 Year	
Contributing Drainage Area (SQ. FT)	12,000.00
Adjusted CN for 2-year Storm (From Channel and Flood Protection Tab)	95
CN for Meadow in Good Condition (From Channel and Flood Protection Tab)	70
Peak Inflow Discharge (qi2) (From TR-55 - Use Cell E-3 Above for input)	0.989
Peak Outflow Discharge (qo2) (From TR-55 - Use Cell E-3 Above for input)	0.307
Ratio of qo2/qi2	0.31
Ratio of Vs2/Vr2 (From Figure H.1, Appendix H)	0.38
Volume Runoff (in) with BMPs, for 2-yr storm (From Channel and Flood Protection Tab)	3.2
Calculate Runoff Volume (Vr2) (cubic feet) (Drainage Area in sq.ft*Volume Runoff w/ BMP) 12	3,200
Calculate Required Storage Volume (Vs2) (cubic feet) (Vs2/Vr2)*(Vr2)	1,216

This volume must be DETAINED on top of the Retention Compliance Volume

DETENTION COMPLIANCE CALCULATIONS

NOTE:
THE VOLUME RETENTION REQUIREMENTS FOR THIS PROJECT WILL BE COMING FROM OFF-SITE RETENTION. THE STRUCTURE IS DESIGNED TO DETAIN A 2-YEAR STORM DETENTION QUANTITY PER DDOE REQUIREMENTS.

SINGLE BUILDING CONNECTION



SECOND FLOOR CONNECTING DIAGRAM



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