



General Construction Notes

1. **Contracts:** Notify the following DC Water departments prior to the commencement of utility construction:

- Construction Inspection Section at 202-787-4024 at least two weeks prior to the commencement of utility construction to schedule pre-construction meetings.
- Department of Water Services at 202-412-3400 at least one week prior to the commencement of water utility construction.
- Department of Sewer Services at 202-264-3862 or 3873 at least one week prior to the commencement of sewer utility construction.

2. **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.

3. **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.

4. **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, the Contractor 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 only 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.

6. **Miss Utility:** Contact Miss Utility at 800-257-7777 48 hours before any digging.

7. **Plan Set:** A set of signed & sealed DC Water standard Plans shall be kept at all times at the job site on which all changes or variations in the work, including all existing utilities, are to be recorded and/or corrected daily.

8. **Abandonments:** The Owner must physically disconnect existing water, sewer, and storm laterals that are to be abandoned at their connection to the public main.

9. **Unmetered Water:** There shall be no unmetered connections to the City's water system, including connections bypassing meters for testing on-site plumbing or for obtaining construction water.

10. **Pressure Testing Against Valves:** Pressure testing against valves will not be allowed.

11. **Water Meter Installation:** To schedule the installation of a domestic water meter contact Permit Operations at 202-644-9600. DC Water will furnish and install the meter after the connection to the main has been made and the meter pit/wall has been installed.

February 2017

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12. **Cross Contamination Control:** ASSE 1048 certified backflow prevention assemblies 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.

13. **Utility Service Disruptions:** Phase all utility work to maintain utility services to the surrounding area during all phases of construction. Limit required utility shut-downs in number and duration. Coordinate these shut-downs with DC Water Construction Inspection staff.

14. **Water Valve Operation:** The Contractor is required to coordinate with DC Water for all necessary water main shut-downs with adequate advanced notice. Only DC Water employees may shut down a public water main. A certified plumber is only authorized to turn off valves inside meter pits.

15. **Water Gate Valve Location:** Locate gate valves for domestic and fire services as close to the public water main tee as possible. However, if necessary adjustments are required due to conflicts, coordinate with a DC Water Inspector.

16. **Material:** The Contractor is responsible for submitting shop cuts to the appropriate DC Water office for approval or obtaining a DC Water approval stamp for all work in public space in advance of installation. Only approved materials may be used.

17. **Temporary Conditions Minimum Cover:** A nominal four feet of cover is required for all water mains at final grade. Cover of less than four feet requires DC Water approval.

18. **As-Built:** Developers, contractors and/or plumbers must submit final construction as-built information to the appropriate DC Water Inspector(s) for review and approval, upon completion of installation of new services or abandonment of existing services. When the final as-built is approved all deposits 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 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 the DC Water Permit Operations Department 202-644-8600.

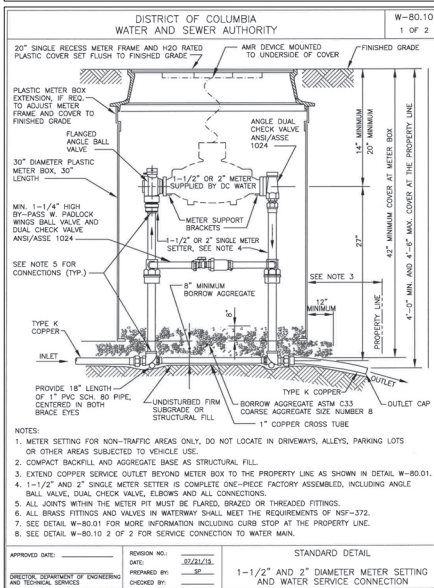
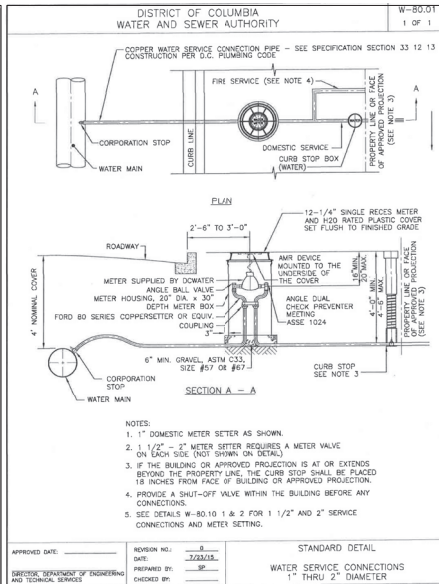
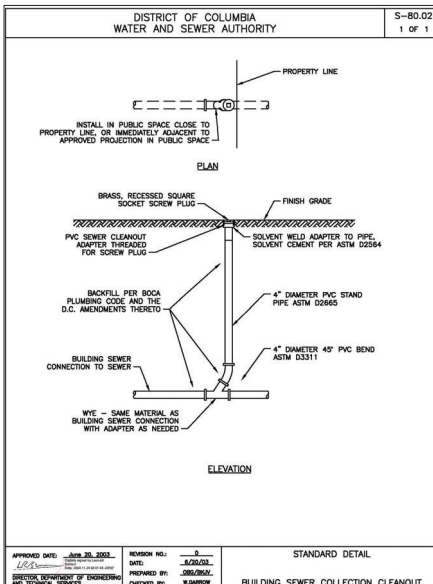
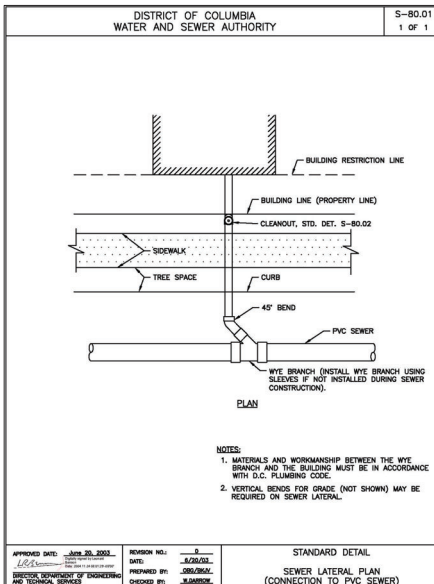
21. **Fire Hydrant Status:** The Contractor shall notify FEMS at 202-277-1889, prior to taking any fire hydrant out of service or rendering any hydrant inaccessible for any reason. FEMS is also to be provided with the location of any new installation of private fire hydrants.

22. **DC Water Safety Office:** The DC Water Safety Office can be contacted at 202-787-4350.

23. **Sewer Backwater Prevention:** The plumbing system must be in compliance with Section 715 of the 2006 International Plumbing Code which states a backwater is valve is required for all plumbing fixtures below the elevation of the manhole cover of the next upstream manhole in the public sewer.

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DCWSA			
Backflow Prevention Form			
Information Requirement For Approval of Backflow Preventers for Water Services			
<i>Project Location:</i>			
A.	Street Address: 3131 38th St		Quadrant: NW
B.	Lot(s): 20	Square: 1923	
C.	Number of water services: 1		Size of water service(s): 1.5" W & F
D.	Closest cross street to the project: Woodley Rd, NW		
E.	Backflow Prevention Information:		
	<u>Domestic Service</u>		<u>Fire Service</u>
	Backflow Prevention Type	DCVA	DCVA
	Manufacturer	Watts	Watts
	Size	1.5"	1.5"
	Model	QOT	QOT
	ASSE #	1015	1015
<i>Design Firm:</i> Huska Consulting, LLC			
	Address : 1050 30th St NW		
	City: Washington	State: DC	Zip Code: 20007
	Tel: (703) 425-3862	Fax: ()	Date Requested: 4-01-21
<i>Design Engineer (print):</i> Christopher Huska		<i>Signature:</i> <i>Christopher Huska</i>	

Tel: () Fax: () Date: _____
Notes: _____

WASA Approval: (Name) _____ **Signature:** _____



DEPARTMENT OF COLUMBIA WATER AND SEWER AUTHORITY | 1100 46th STREET, SW | SUITE 310 | WASHINGTON, DC 20024

Permit Operations
2025.01.01

Backwater Evaluation Form [per 2006 International Plumbing Code (IPC) Section 715]

Note: User must complete all cells shown bluehighlighted.

Next Upstream Manhole Rim Elevation (ft) = 363.84

	sewer Fixture Description	1 Flood Level Rim Elevation (ft)	2 Backwater Value or Pump Required?
Basement	Bathroom	0.00	n/a
	Bedroom	0.00	n/a
	Bidet	0.00	n/a
	Central Unit	0.00	n/a
	Drinking Fountain	0.00	n/a
	Utility Sink	0.00	n/a
	Linoleum	0.00	n/a
	Dishwasher	0.00	n/a
	Clothes Washer	362.68	Yes
	Flour Drain	0.00	n/a
Other - describe here		0.00	n/a

	sewer Fixture Description	3 Flood Level Rim Elevation (ft)	4 Backwater Value or Pump Required?
First Floor	Bathroom	372.68	No
	Bedroom	0.00	n/a
	Bidet	0.00	n/a
	Central Unit	0.00	n/a
	Drinking Fountain	0.00	n/a
	Utility Sink	373.68	No
	Linoleum	0.00	n/a
	Toilet	372.68	n/a
	Dishwasher	371.18	n/a
	Clothes Washer	0.00	n/a
Flour Drain	0.00	n/a	
Other - describe here		0.00	n/a

n/a= not applicable


Sewer: Lateral Information

Sewer Lateral Location / Project Address	Lateral Size (in)	Lateral Slope (ft/ft)	Lateral C/I (ft)	Lateral C/O Invert Elev (ft)	Public Sewer Size (in)	Next Upstream Manhole Rim Elevation (ft)
1035 15TH ST NW Norton	4"	2.00%	397.23	365.79	12	363.84

** 2006 International Plumbing Code (IPC) defines Flood Level as "The edge of the receptacle from which water overflows."*

† If the elevation of the flood level rim is lower than the elevation of the next upstream manhole rim, a backwater value for that fixture may need to be included on IPC requirements, or the fixture may need to be pumped per IPC requirements.

Feb 2023

 David L. Gadsis, Chief Executive Officer
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 1385 CANAL STREET, SE | WASHINGTON, DC 20003

January 25, 2021

Mr. Sydney Lester
Chief of Fire Protection Division
Department of Consumer and Regulatory Affairs
1100 4th Street SW
Washington, DC 20004

Re: 3131 38th St NW
Theoretical Static Hydraulic Grade in lieu of Fire Hydrant Flow Test


Mr. Lester:

DC Water does not require a hydrant flow test in order to evaluate the water distribution system capacity for small fire demands (i.e., 100 GPM or less). In almost all instances, the existing water distribution system can meet that demand with little or no drop in water pressure. Therefore, this project is conveyed in lieu of a fire hydrant flow test in order to provide the applicant with the normal operating characteristics of the water distribution system at the subject location. For this site the information is as follows:

- *Pressure Zone – Fourth High Fl. Reno*
- *Overflow Elevation – 310 feet*
- *Ground Elevations Served – 350 - Above*
- *Approximate Project Site Elevation – 362 - 368 feet*
- *Theoretical Water Distribution System Pressure (Static) – Overflow Elevation – Project Site Elevation – 142 - 148 feet – 61 - 64 psi*

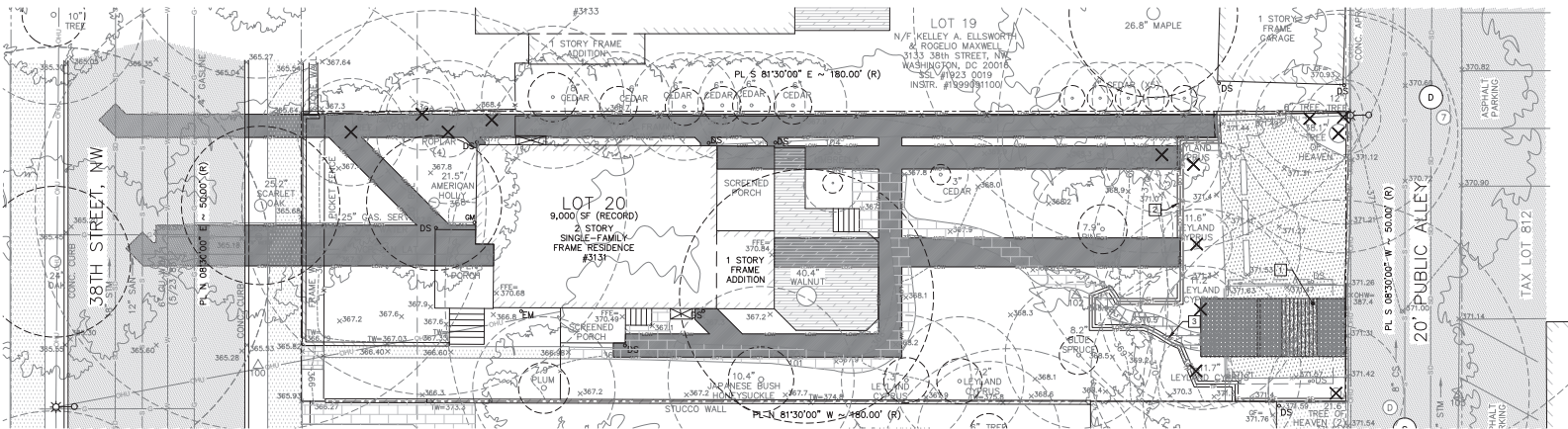
The above information, provided in lieu of a fire hydrant flow test, is anticipated to be an adequate representation of the water pressure in the distribution system at this specific project location for a fire demand of 100 GPM or less.

If you have any questions, please call me at (202) 646-8614 or e-mail me at Jigar.Bhat@dcwater.com

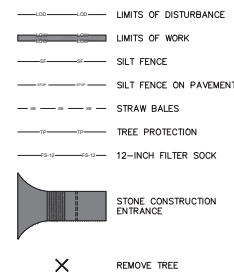
Sincerely,

Jigar Bhat
District Engineer for Water Distribution
District of Columbia Water and Sewer Authority
1385 Canal Street, SE
Washington, DC 20003
(202) 646-8614
Jigar.Bhat@dcwater.com

Jigar Bhat P.E.
Supervisor, Permit Operations

SEAL	DC WATER PLUMBING FORMS
DRAWING TITLE	CIV-330
DRAWING NO.	



SEDIMENT CONTROL PLAN LEGEND



SEDIMENT CONTROL PLAN KEYNOTES

- 1 PROVIDE STONE CONSTRUCTION ENTRANCE IF REQUIRED BY DOEE INSPECTOR. LAY STRAW BALES AT FRONT OF ENTRANCE AT THE END OF EACH WORK DAY.
- 2 PROVIDE TREE PROTECTION FENCING THE VICINITY OF ALL TREES TO BE PRESERVED.
- 3 WHERE APPLICABLE, SILT FENCING SHALL SURROUND LIMITS OF DISTURBANCE. LINES SHOWN OFFSET FOR CLARITY (TYP.)

COMPREHENSIVE PROJECT NARRATIVE

THE PROPERTY IS 9,000 SF (0.2066 AC.), IS SITUATED IN SQUARE 1923 ON LOT 0020, AND CURRENTLY HAS A DETACHED TWO-STORY WOOD-FRAME STRUCTURE FOR SINGLE-FAMILY RESIDENTIAL USE. THE PROPERTY IS ZONED R-1-B. THE PROPERTY IS GENERALLY BOUNDED BY 38TH ST NW TO THE WEST, A PUBLIC ALLEY TO THE EAST, LOT 19 TO THE NORTH, AND LOT 50 TO THE SOUTH. THERE ARE NO BODIES OF WATER ON OR IN THE VICINITY OF THE PROPERTY.

THE EXISTING CONCRETE PARKING AREA AND CARPORT AT THE REAR OF THE PROPERTY SHALL BE DEMOLISHED. SEVEN TREES SHALL BE REMOVED ON PRIVATE PROPERTY, INCLUDING TWO INVASIVE "ALANTHUS ALTISIMA" TREES. A PORTION OF THE STONE WALKWAY AND STEPS SHALL BE REMOVED, AND THE EXISTING GRADE SHALL BE LEVELED. THE EXISTING WATER AND SEWER LATERALS FOR THE PROPERTY SHALL BE ABANDONED, CAPPED AND REMOVED AT THE MAIN PER DC WATER STANDARDS AND SPECIFICATIONS.

A NEW TWO-STORY WOOD-FRAME ACCESSORY STRUCTURE SHALL BE CONSTRUCTED AT THE REAR OF THE PROPERTY. A STORAGE SHED SHALL BE PROVIDED ALONG WITH A CONCRETE PARKING AREA WITH CARPORT. A WOOD PATIO AREA SHALL BE PROVIDED FOR THE NEW STRUCTURE WITH CONCRETE TERRACE WALKWAY TO THE EXISTING STONE PATH.

NEW CONNECTIONS TO MAINS ALONG 38TH ST NW SHALL INCLUDE TWO NEW SEWER LATERALS. SEWER SERVICE SHALL CONSIST OF ONE 4" SCHEDULE 40 PVC SANITARY SEWER LATERAL WITH CLEANOUTS, AND ONE 6" SCHEDULE 40 PVC STORM SEWER LATERAL WITH CLEANOUT. THE EXISTING WATER SERVICE LATERAL SHALL BE UPSIZED TO A 1.5" COMBINED WATER SERVICE WITH 1.5" METER AND 1.5" DOMESTIC AND FIRE SUPPRESSION BRANCHES. NEW 2" DISTRIBUTION PIPES FOR DOMESTIC AND FIRE SERVICE SHALL BE PROVIDED ON PRIVATE PROPERTY FROM THE EXISTING STRUCTURE TYING IN TO THE NEW ACCESSORY STRUCTURE.

SEDIMENT CONTROL MEASURES SHALL BE UTILIZED. CHIEFLY, THE LIMITS OF DISTURBANCE SHALL BE RINGED WITH SILT FENCE.

STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT.

UNDERGROUND UTILITY WORK AND TRENCHING NOTES

1. WHEN CONDUCTING UNDERGROUND UTILITY WORK DO NOT OPEN MORE THAN FIVE HUNDRED LINEAR FEET (500 FOOT) OF TRENCH AT ANY ONE TIME.
2. FILTER WATER PUMPED OUT OF TRENCH EXCAVATIONS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
3. PLACE EXCAVATED MATERIAL FOR UTILITY WORK ON THE UPHILL SIDE OF A TRENCH.
4. INSTALL INTERIM OR PERMANENT STABILIZATION IMMEDIATELY AFTER A UTILITY TRENCH IS REFILLED.
5. STEEL PROTECTION PLATES SHALL BE USED BY CONTRACTOR TO PROTECT OPEN EXCAVATED AREAS. ALL OPEN TRENCHES IN THE PUBLIC SPACE WHICH ARE NOT BACKFILLED AND COMPACTED BY THE END OF EACH WORK DAY SHALL BE PLATED.

SEDIMENT CONTROL AND CONSTRUCTION SEQUENCE

1. CONTACT THE DOEE INSPECTOR AND HAVE A PRECONSTRUCTION MEETING ON SITE.
2. INSTALL SEDIMENT CONTROL MEASURES AND STONE CONSTRUCTION ENTRANCES PER THE APPROVED PLAN AND AS DIRECTED BY THE DOEE INSPECTOR.
3. 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 WATERWAY.
4. REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.
5. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS.
6. COMMENCE WORK FIRST PERTAINING TO THE STRUCTURE'S CONSTRUCTION/RENOVATION, THEN EXTERIOR SITE IMPROVEMENTS AND UTILITY TRENCHING.

SEDIMENT CONTROL SITE INFORMATION

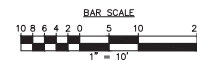
PROPERTY AREA: 9,000 SF (0.2066 AC.)
AREA DISTURBED: 1,442 SF (PRIVATE PROPERTY)
1,938 SF (PRIVATE PROPERTY, UTILITY TRENCHING ONLY)
28 SF (PUBLIC SPACE)
332 SF (PUBLIC SPACE, UTILITY TRENCHING ONLY)

TOTAL CUT: 439.4 CY
TOTAL FILL: 395.5 CY

NOTE: THESE FIGURES ARE PERMITTING PURPOSES ONLY. ANY WASTE OR BORROW IS TO BE SUBMITTED SEPARATELY BY THE CONTRACTOR FOR APPROVAL.

SEDIMENT CONTROL PLAN NOTES

1. TREE PROTECTION MEASURES AND EXCAVATIONS SHALL COMPLY WITH THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES (GOLD BOOK) SECTIONS 207.03, 608.07, AND 308.08. TREES WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK MUST BE PROTECTED WITH 6-FOOT-TALL CHAIN LINK FENCE TO THE EXTENT OF THE EXISTING TREE BOX OR TO THE ROOT ZONE IN A PLANTING STRIP. TREE PROTECTION FENCE SHALL BE INSTALLED TO NO LESS THAN A 4'x9' AREA.
2. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF GUTTERS AND DOWNSPOUTS AS SOON AS PRACTICABLE.
3. MEASURES SHALL BE TAKEN TO ACHIEVE A NON-ERODING VELOCITY FOR STORMWATER EXITING FROM A ROOF OR DOWNSPOUT TO TEMPORARILY PIPE THAT STORMWATER DIRECTLY TO A STORM DRAIN.
4. THE SITE WORK SHALL MAXIMIZE THE PRESERVATION OF NATURAL VEGETATION AND LIMIT THE REMOVAL OF VEGETATION TO WHAT IS NECESSARY FOR CONSTRUCTION OR LANDSCAPING ACTIVITY.
5. INSPECT ALL SEDIMENT CONTROL DEVICES AT THE END OF EACH CONSTRUCTION DAY. ANY DAMAGED SEDIMENT CONTROL DEVICES MUST BE REPAIRED BY THE CLOSE OF THE DAY.
6. SEDIMENT CONTROL MEASURES MAY ONLY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED FROM THE DOEE INSPECTOR.
7. REFER TO THE CIVIL COVER SHEET FOR ADDITIONAL INFORMATION.



NOT FOR CONSTRUCTION
INTERNAL
COORDINATION
4/1/2021
HUSKA CONSULTING, LLC

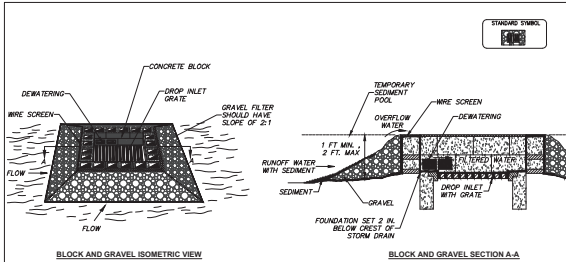
REAL
SEDIMENT
CONTROL PLAN
DRAWING TITLE
CIV-500
DRAWING NO.

PROJECT
3131 38TH ST NW
WASHINGTON, DC 20016
SQUARE 1923 LOT 0020

ARCHITECT
KATE DONAHUE
FOUR BROTHERS DESIGN + BUILD
315.730.4418

CIVIL ENGINEER
CHRISTOPHER HUSKA
HUSKA CONSULTING LLC
1050 30TH STREET, NW
WASHINGTON, DC 20007
703.425.3862

LAND SURVEYOR
TM GREENWOOD
SUSTAINABLE LAND SURVEYS, LLC
P.O. BOX 15450
WASHINGTON, DC 20003
571.339.9201



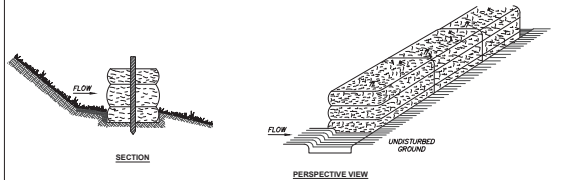
CONSTRUCTION SPECIFICATIONS

1. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 2 INCHES BELOW THE CREST OF THE STORM DRAIN.
2. THE BOTTOM ROW OF BLOCKS IS PLACED AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. ONE BLOCK IS PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. IF NEEDED, LATERAL SUPPORT MAY BE GIVEN TO SUBSEQUENT ROWS BY PLACING 2 INCH x 4 INCH WOOD STUDS THROUGH BLOCK OPENINGS.
3. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS MUST BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
4. PLACE CLEAN #57 GRAVEL 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH TO AN EVEN GRADE.
5. FOR SEDIMENT STORAGE, PROVIDE A MINIMUM EXCAVATED DEPTH OF 1.5 FEET. SIDE SLOPES SHOULD NOT BE STEEPER THAN 2:1.

DATE	APPROVED	REVISION	REFERENCE

BLOCK AND GRAVEL DROP INLET PROTECTION STORM DRAIN INLET PROTECTION

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 307.6



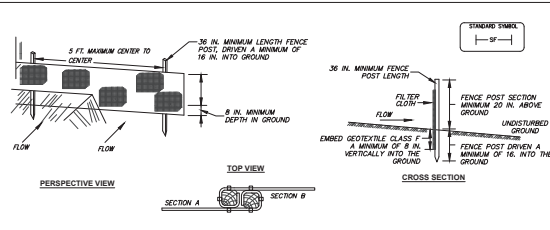
CONSTRUCTION SPECIFICATIONS

1. PLACE BALES IN A ROW ON THE CONTOUR WITH THE ENDS OF EACH BALE TIGHTLY ABUTTING THE ADJACENT BALES.
2. ENTRENCH EACH BALE 4 INCHES MINIMUM INTO THE SOIL AND PLACE SO THE BINDINGS ARE HORIZONTAL. SOME OF THE EXCAVATED SOIL MUST BE BUILT UP AND COMPACTED AT THE UPSTREAM EDGE OF THE DIKE TO PREVENT PILING AND UNDERCUTTING.
3. SECURELY ANCHOR BALES IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE 12 TO 18 INCHES INTO THE GROUND. DRIVE THE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. DRIVE THE STAKES FLUSH WITH THE TOP OF THE BALE.
4. IMMEDIATELY INSPECT STRAW BALE BARRIERS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. RE-DRIVE THE ANCHORING STAKES IF THEY BECOME EXPOSED. REMOVE SEDIMENT WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
5. REMOVE ALL BALES WHEN THE SITE HAS BEEN STABILIZED. GRADE FLUSH AND STABILIZE THE TRENCH WHERE THE BALES WERE LOCATED.

DATE	APPROVED	REVISION	REFERENCE

STRAW BALE DIKE

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 305.1



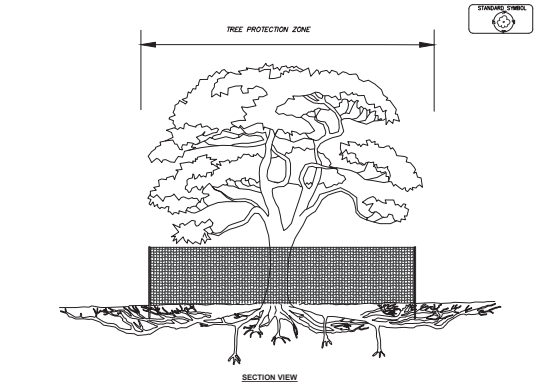
CONSTRUCTION SPECIFICATIONS

1. FENCE POSTS MUST BE A MINIMUM OF 36 IN. LONG DRIVEN 16 IN. MINIMUM INTO THE GROUND. WOOD POSTS MUST BE OF SOUND QUALITY HARDWOOD WITH 1-1/2 IN. MINIMUM BIRTH WHEN SQUARE CUT, OR 1-3/4 IN. MINIMUM DIAMETER WHEN ROUND. STEEL POSTS MUST BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
 2. FASTEN GEOTEXTILE SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION. GEOTEXTILE MUST MEET THE FOLLOWING REQUIREMENTS (GEOTEXTILE CLASS F):
- | PROPERTY | VALUE | TEST METHOD |
|----------------------|---------------------------------------|-------------|
| TENSILE STRENGTH | 50 LBS/LIN (MIN.) | ASTM D-4585 |
| TENSILE MODULUS | 20 LBS/LIN (MIN.) | ASTM D-4585 |
| FLOW RATE | 0.3 GAL/FT ² MINUTE (MAX.) | ASTM D-5141 |
| FILTERING EFFICIENCY | 75% (MIN.) | ASTM D-5141 |
3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, OVERLAP, FOLD, AND STAPLE THEM TO PREVENT SEDIMENT BYPASS.
 4. INSPECT SILT FENCE AFTER EACH RAINFALL EVENT, AT LEAST DAILY DURING SUSTAINED RAINFALL EVENTS, AND MAINTAIN WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT.

DATE	APPROVED	REVISION	REFERENCE

SILT FENCE-1

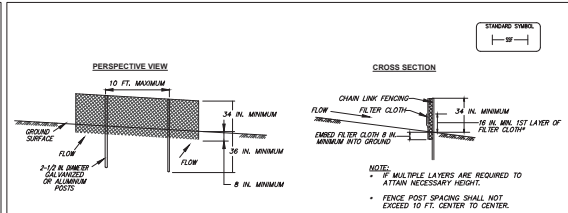
*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 301.1



DATE	APPROVED	REVISION	REFERENCE

TREE PROTECTION

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 903.1



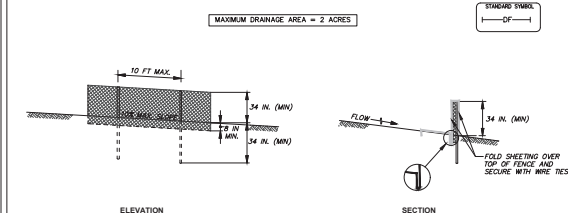
CONSTRUCTION SPECIFICATIONS

1. FENCING MUST BE AT LEAST 42 INCHES IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST DISTRICT DEPARTMENT OF TRANSPORTATION (DDOT) DETAILS FOR CHAIN LINK FENCING. THE DDOT SPECIFICATION FOR A 6-FOOT FENCE MUST BE USED, SUBSTITUTING MINIMUM 42-INCH FABRIC AND 6-FOOT LENGTH POSTS. POSTS DO NOT NEED TO BE SET IN CONCRETE.
 2. SECURELY FASTEN CHAIN LINK FENCE TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
 3. SECURELY FASTEN GEOTEXTILE TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID-SECTION.
 4. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES INTO THE GROUND.
 5. WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ADJACENT EACH OTHER, FOLD AND OVERLAP BY 8 INCHES.
 6. GEOTEXTILE MUST MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F (FROM TABLE 3.2-SEE BELOW):
- | PROPERTY | VALUE | TEST METHOD |
|----------------------|---------------------------------------|-------------|
| TENSILE STRENGTH | 50 LBS/LIN (MIN.) | ASTM D-4585 |
| TENSILE MODULUS | 20 LBS/LIN (MIN.) | ASTM D-4585 |
| FLOW RATE | 0.3 GAL/FT ² MINUTE (MAX.) | ASTM D-5141 |
| FILTERING EFFICIENCY | 75% (MIN.) | ASTM D-5141 |
7. INSPECT SUPER SILT FENCE AFTER EACH RAINFALL EVENT, AT LEAST DAILY DURING SUSTAINED RAINFALL EVENTS, AND MAINTAIN WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT.

DATE	APPROVED	REVISION	REFERENCE

SUPER SILT FENCE-1

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 302.1



CONSTRUCTION SPECIFICATIONS

1. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2-3/8 INCH MAXIMUM OPENING).
2. USE 2-3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 108 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
4. SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
5. EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
6. WHEN TWO SECTIONS OF SHEETING ADJACENT EACH OTHER, OVERLAP BY 8 INCHES AND FOLD WITH SEAM FACING DOWNGRADE.
7. KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

DATE	APPROVED	REVISION	REFERENCE

DIVERSION FENCE

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 401.1

SEDIMENT CONTROL NOTES AND DETAILS NOTES

1. THE SITE WORK SHALL MAXIMIZE THE PRESERVATION OF NATURAL VEGETATION AND LIMIT THE REMOVAL OF VEGETATION TO WHAT IS NECESSARY FOR CONSTRUCTION OR LANDSCAPING ACTIVITY.
2. REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.
3. EROSION AND SEDIMENT CONTROL DETAILS ARE INCLUDED ON THE PLANS FOR REFERENCE ONLY AND ARE NOT INTENDED TO REPRESENT A TOTAL INCLUSION OF ALL EROSION AND SEDIMENT CONTROL DETAILS AND STANDARDS THAT MAY BE REQUIRED FOR THE PROJECT. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF ALL DOEE DETAILS AND STANDARDS.
4. COORDINATE ESC MEASURE WITH THE DOEE INSPECTOR. INSTALL ADDITIONAL MEASURES AS REQUIRED BY THE DOEE INSPECTOR.
5. ESC DETAILS SHOWN ON THIS SHEET MAY NOT BE REQUIRED FOR THIS SPECIFIC PROJECT AND ARE INCLUDED IN THE EVENT THE DOEE INSPECTOR REQUIRES ADDITIONAL ESC MEASURES TO BE INSTALLED.
6. SPECIFICATIONS FOR ESC MEASURES ARE INCLUDED IN THE ESC NOTES AND DETAILS AND ARE NOT REFERENCED IN THE PROJECT SPECIFICATIONS. REFER TO DOEE STANDARDS & SPECIFICATIONS.
7. REFER TO THE DOEE 2017 EROSION AND SEDIMENT CONTROL MANUAL FOR DESIGN, CONSTRUCTION, AND MAINTENANCE SPECIFICATIONS FOR EACH ESC MEASURE.
8. REFER TO THE CIVIL COVER SHEET FOR ADDITIONAL INFORMATION.



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INTERNAL COORDINATION
4/1/2021

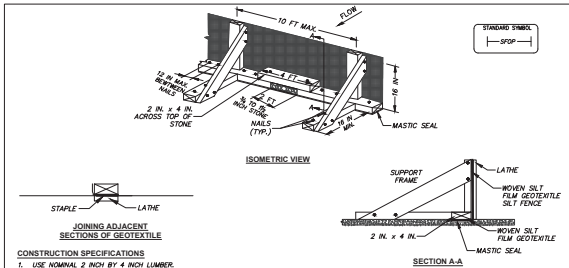
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SEDIMENT CONTROL NOTES AND DETAILS
DRAWING TITLE
CIV-510
DRAWING NO.

PROJECT
3131 38TH ST NW
WASHINGTON, DC 20016
SQUARE 1923 LOT 0029

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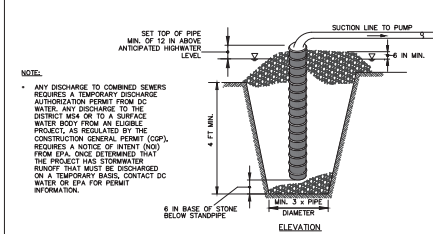
CONSTRUCTION SPECIFICATIONS

- USE NORMAL 2 IN BY 4 IN LUMBER.
- USE WOVEN SILT FILM GEOTEXTILE, AS SPECIFIED IN APPENDIX A.
- SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- PROVIDE A 2-FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
- KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN - OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
- PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LOADED WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
- SECURE ROADS TO PAVEMENT WITH 400-5 INCH MINIMUM LENGTH NAILS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

DATE	APPROVED
REVISION	REFERENCE

SILT FENCE ON PAVEMENT

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO. 310.1



CONSTRUCTION SPECIFICATIONS

- WRAP THE PIPE WITH 3/8 INCH GALVANIZED HARDWARE CLOTH AND THEN GEOTEXTILE OVER THE HARDWARE CLOTH.
- EXCAVATE THE PIT 3 TIMES THE PIPE DIAMETER AND 4 FEET IN DEPTH. PLACE CLEAN 1/2 TO 3/4 INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
- SET THE TOP OF THE PIPE A MINIMUM OF 12 INCHES ABOVE THE ANTICIPATED WATER SURFACE ELEVATION.
- BACKFILL PIT AROUND THE OUTER PIPE WITH 3/4 TO 1-1/2 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
- PLACE THE SUCTION HOSE FROM THE PUMP INSIDE THE PIPE TO BEGIN DEWATERING. PLACE THE DISCHARGE HOSE IN A STABILIZED AREA DOWNSTREAM OF UNSTABILIZED AREAS TO PREVENT EROSION. MOUND OR WOODEN AREAS ARE PREFERRED DISCHARGE LOCATIONS BUT STORM DRAINS AND PAVED AREAS ARE ACCEPTABLE.

DATE	APPROVED
REVISION	REFERENCE

SUMP PIT

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO. 702.1

DUST CONTROL

WHEN DESIGNING A DUST CONTROL PLAN FOR A SITE, THE AMOUNT OF SOIL EXPOSED WILL DICTATE THE QUANTITY OF DUST GENERATION AND TRANSPORT. THEREFORE, CONSTRUCTION SEQUENCING AND DISTURBING ONLY SMALL AREAS AT A TIME CAN GREATLY REDUCE PROBLEMATIC DUST FROM A SITE. IF LAND SHOULD BE DISTURBED, CONSIDER ADDITIONAL TEMPORARY STABILIZATION MEASURES PRIOR TO DISBURBANCE.

TEMPORARY METHODS

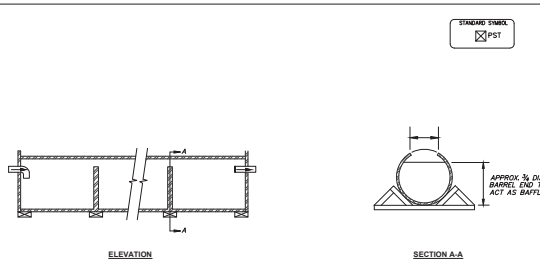
- MULCHES - SEE SECTION 2.7 MULCHING. CHEMICAL OR WOOD CELLULOSE FIBER BINDERS MUST BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL.
- VEGETATIVE COVER - SEE SECTION 2.10 VEGETATIVE STABILIZATION.
- SPRAY-ON ADHESIVES - USE ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). THESE ARE GENERALLY SYNTHETIC MATERIALS THAT ARE APPLIED TO THE SOIL SURFACE TO ACT AS BINDING AGENTS. ASPHALT-BASED AND COAL TAR-BASED MATERIALS ARE NOT ACCEPTED. KEEP TRAFFIC OFF THESE AREAS ONCE THEY HAVE BEEN TREATED. THE FOLLOWING TABLE MAY BE USED FOR GENERAL GUIDANCE.
- TILLAGE - THIS IS AN EMERGENCY TEMPORARY PRACTICE THAT WILL SCARIFY THE SOIL SURFACE AND PREVENT OR REDUCE THE AMOUNT OF BLOWING DUST UNTIL A MORE APPROPRIATE SOLUTION CAN BE IMPLEMENTED. BEGIN THE TILLAGE OPERATION ON THE WINDWARD SIDE OF SITE. USE A CHisel-TYPE PLOWS TO PRODUCE THE BEST RESULTS.
- SPRINKLING - THIS IS THE MOST COMMONLY USED DUST CONTROL PRACTICE. THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST AND REPEATED AS NEEDED. THIS PRACTICE CAN BE PARTICULARLY EFFECTIVE FOR ROAD CONSTRUCTION AND OTHER TRAFFIC ROUTES. THE SITE MUST NOT BE SPRINKLED TO THE POINT THAT RUNOFF OCCURS.
- BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, CRATE WALLS, OR SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- CALCIUM CHLORIDE - CAN BE APPLIED AS FLAKES OR GRANULAR MATERIAL WITH A MECHANICAL SPREADER AT A RATE THAT WILL KEEP THE SOIL SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. CAN BE REAPPLIED AS NECESSARY.

PERMANENT METHODS

- PERMANENT VEGETATION - SEE SECTION 2.10 VEGETATIVE STABILIZATION. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE SECTION 2.6 TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SECTION 2.3 CONSTRUCTION ROAD STABILIZATION AND SECTION 2.4 CONSTRUCTION DEBRIS GROUND COVER.

9.1.5 CONSTRUCTION SPECIFICATIONS

- THE CONTRACTOR MUST CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. USE DUST CONTROL THROUGHOUT THE WORK AT THE SITE.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL, AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER-SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES SHALL 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.
- FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, AND PUMP WITH DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.
 - DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 KPA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE



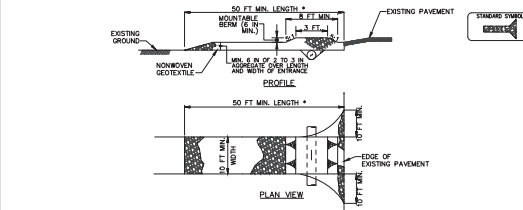
CONSTRUCTION SPECIFICATIONS

- CONSTRUCT THE STRUCTURE WITH STEEL DRUMS, STURDY WOOD, OR OTHER MATERIAL SUITABLE FOR HANDLING THE PRESSURE EXERTED BY THE VOLUME OF WATER.
- SEDIMENT TANKS HAVE A MINIMUM DEPTH OF 2 FEET.
- ONCE THE WATER LEVEL NEARS THE TOP OF THE TANK, SHUT OFF THE PUMP WHILE THE TANK DRAINS AND ADDITIONAL CAPACITY IS MADE AVAILABLE.
- DESIGN THE TANK TO ALLOW FOR EMERGENCY FLOW OVER TOP OF THE TANK.

DATE	APPROVED
REVISION	REFERENCE

PORTABLE SEDIMENT TANK - 1 (HORIZONTAL)

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO. 703.1



CONSTRUCTION SPECIFICATIONS

- PLACE THE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SILE. USE A MINIMUM LENGTH OF 50 FEET (40 FEET FOR SINGLE-FAMILY RESIDENCE LOT) AND A MINIMUM WIDTH OF 10 FEET. FLARE THE SILE AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SILE UNDER THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. PROVIDE PIPE INSTALLED THROUGH THE SILE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. WHEN THE SILE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN THE SILE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SURGRADE AND PLACE NONWOVEN GEOTEXTILE.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SILE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

DATE	APPROVED
REVISION	REFERENCE

STABILIZED CONSTRUCTION ENTRANCE

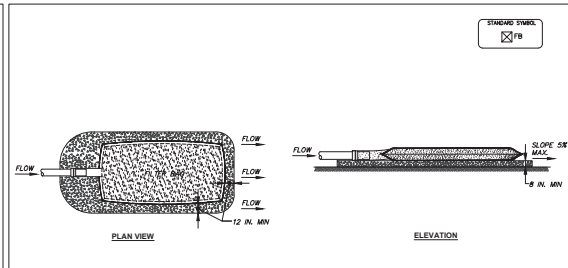
*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO. 201.1

CONTRACTOR SHALL:

- APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
- 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.
- APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.

TABLE 9.1 SPRAY-ON ADHESIVES GUIDANCE

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	TYPE OF NOZZLE	APPLICATION RATE (GALLONS/ACRE)
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300
ACRYLIC EMULSION (NON-TRAFFIC)	7:1	COARSE SPRAY	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE SPRAY	350



CONSTRUCTION SPECIFICATIONS

- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- PLACE FILTER BAG ON 8 INCHES SUITABLE BASE LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. AND DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY. WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UNLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.

DATE	APPROVED
REVISION	REFERENCE

PUMPED WATER FILTER BAGS

*** DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO. 704.1

SEDIMENT CONTROL INSTRUCTIONS

- ALL REQUIRED PLANS, PERMITS, AND DOCUMENTS INCLUDING THE APPROVED SEDIMENT CONTROL PLAN, DAILY LOG BOOKS, AND TEST REPORTS MUST BE ONSITE AND AVAILABLE FOR INSPECTION BY THE DOEE INSPECTOR AND ANY OTHER AUTHORIZED DORA OR REGULATORY AGENT.
- ADEQUATE SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBING ACTIVITY.
- ALL PATHWAYS AND VEHICULAR THOROUGHFARES IN AND AROUND THE PROJECT SITE MUST BE KEPT CLEAN AT ALL TIMES.
- IF A SEDIMENT FILTER TANK IS USED ONSITE, IT MUST BE CLEANED OUT UPON BECOMING 3/4 FULL.
- PLACE GROUND COVER TO STABILIZE AREAS AS REQUIRED. TYPICAL AND RECOMMENDED GROUND COVER INCLUDES MULCH, STONE, GRASS SEED, SOO, AND PAVEMENT.
- ALL AREA DISTURBED FOR THE CONSTRUCTION OR INSTALLATION OF SEDIMENT CONTROL PRACTICES MUST BE STABILIZED WITHIN 7 DAYS. ALL OTHER AREAS MUST BE STABILIZED WITHIN 14 DAYS.
- REFER TO THE DISTRICT OF COLUMBIA EROSION AND SEDIMENT CONTROL MANUAL CHAPTER 2 SECTION 1 FOR INFORMATION AND SPECIFICATIONS PERTAINING TO VEGETATIVE STABILIZATION.
- REFER TO THE DISTRICT OF COLUMBIA EROSION AND SEDIMENT CONTROL MANUAL CHAPTER 3 SECTION 1 FOR INFORMATION AND SPECIFICATIONS PERTAINING TO DUST CONTROL AND OTHER PRACTICES.

SEDIMENT CONTROL NOTES AND DETAILS NOTES

- THE SITE WORK SHALL MAXIMIZE THE PRESERVATION OF NATURAL VEGETATION AND LIMIT THE REMOVAL OF VEGETATION TO WHAT IS NECESSARY FOR CONSTRUCTION OR LANDSCAPING ACTIVITY.
- REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.
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- REFER TO THE DOEE 2017 EROSION AND SEDIMENT CONTROL MANUAL FOR DESIGN, CONSTRUCTION, AND MAINTENANCE SPECIFICATIONS FOR EACH ESC MEASURE.
- REFER TO THE CIVIL COVER SHEET FOR ADDITIONAL INFORMATION.

NOT FOR CONSTRUCTION
INTERNAL COORDINATION
4/1/2021

HUSKA CONSULTING, LLC

PROJECT
3131 38TH ST NW
WASHINGTON, DC 20016
SQUARE 1923 LOT 0029

ARCHITECT
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BEAL

SEDIMENT CONTROL NOTES AND DETAILS

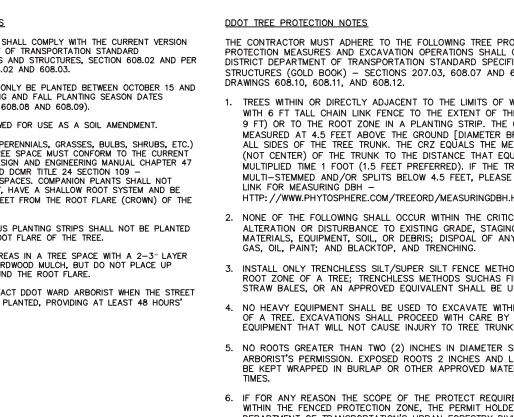
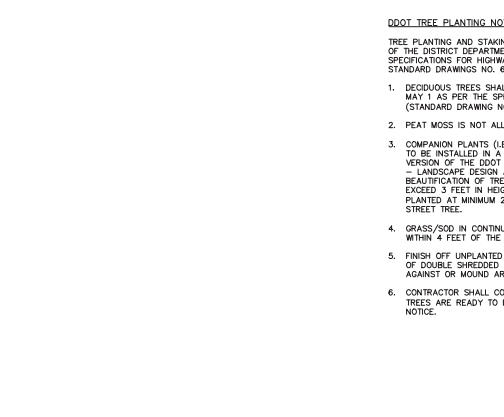
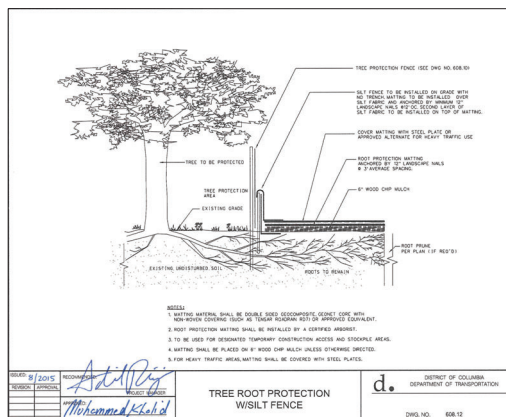
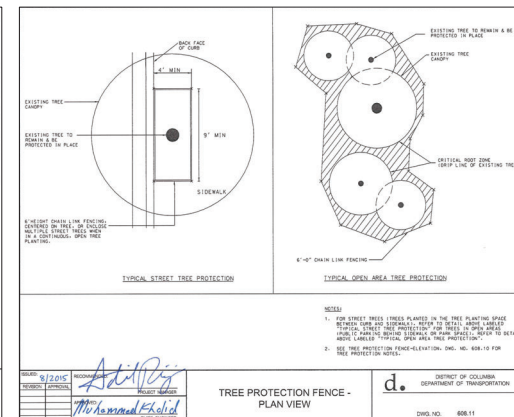
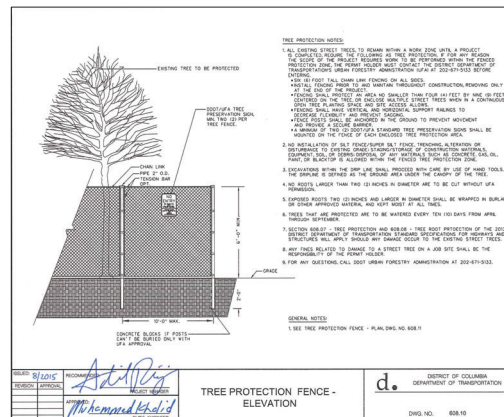
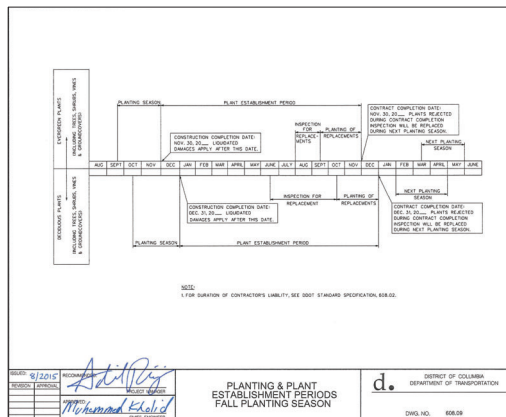
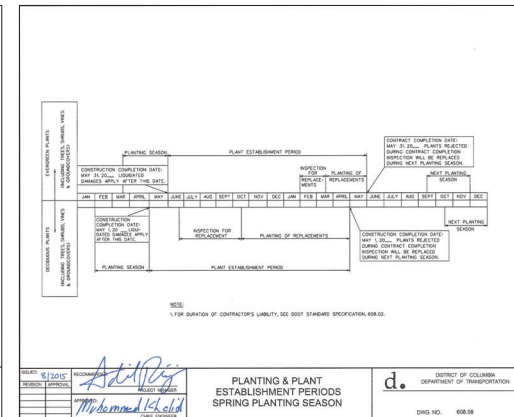
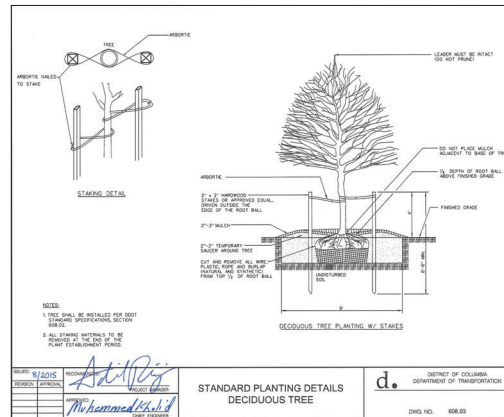
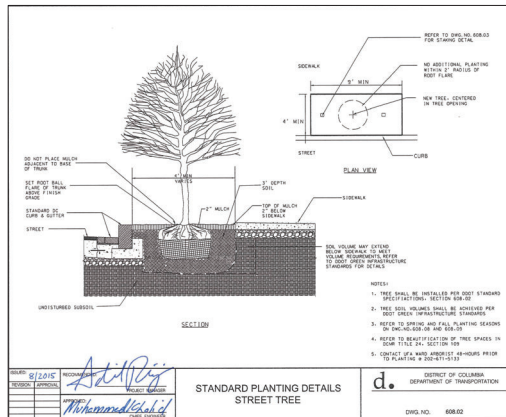
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CIV-511

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HUSKA CONSULTING, LLC



NOT FOR CONSTRUCTION
INTERNAL
COORDINATION
4/1/2021

PROJECT
3131 38TH ST NW
WASHINGTON, DC 20016
SQUARE 1923 LOT 0020

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TM GREENWOOD
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DDOT TREE
PROTECTION
NOTES & DETAILS
DRAWING TITLE
CIV-520

DAVIS ACCESSORY BUILDING

3131 38TH ST NW
WASHINGTON, DC 20016

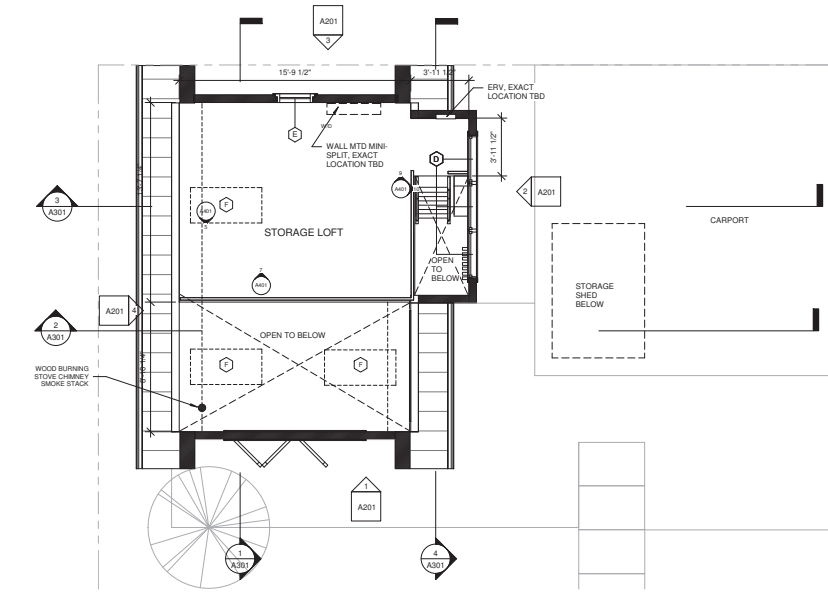
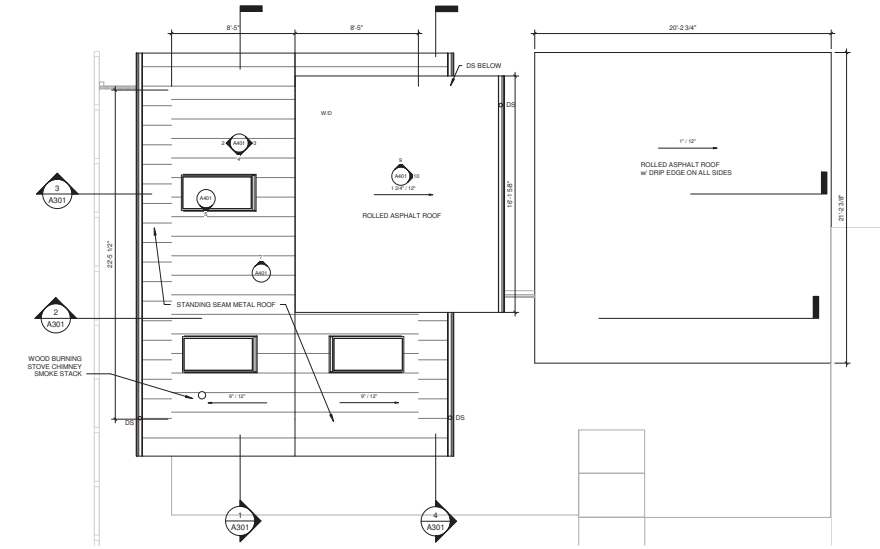
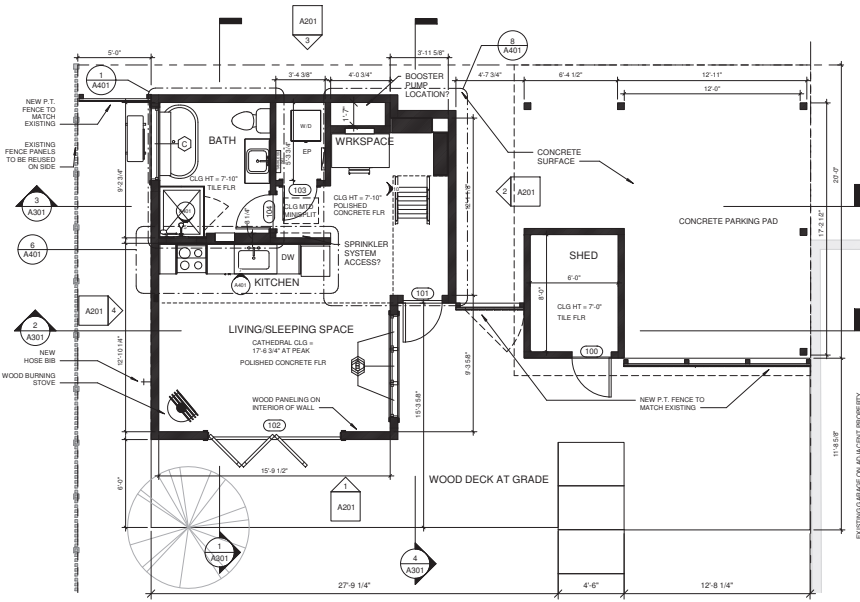
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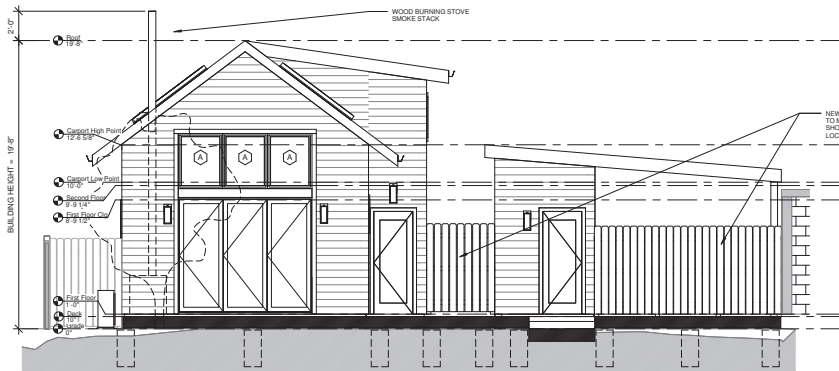
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Drawing Set
Date

PERMIT SET
04.08.21

A101

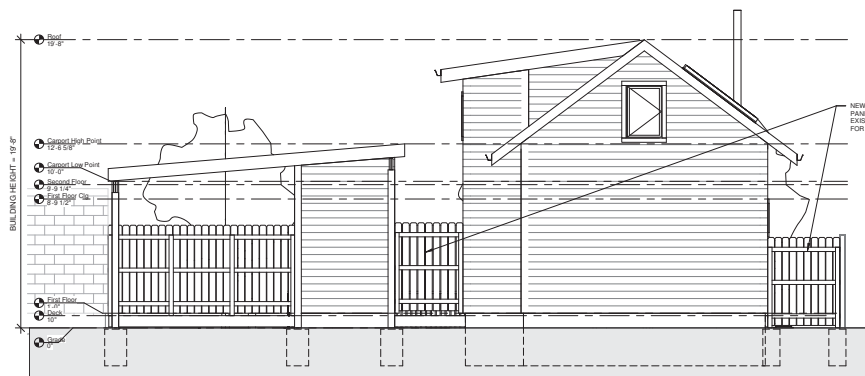




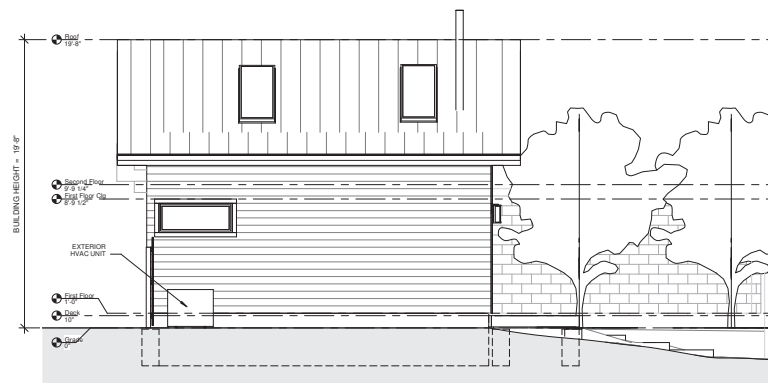
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2 Side (South) Elevation
1/4" = 1'-0"



3 Rear (East) Elevation
1/4" = 1'-0"



4 Side (North) Elevation
1/4" = 1'-0"

DAVIS ACCESSORY BUILDING

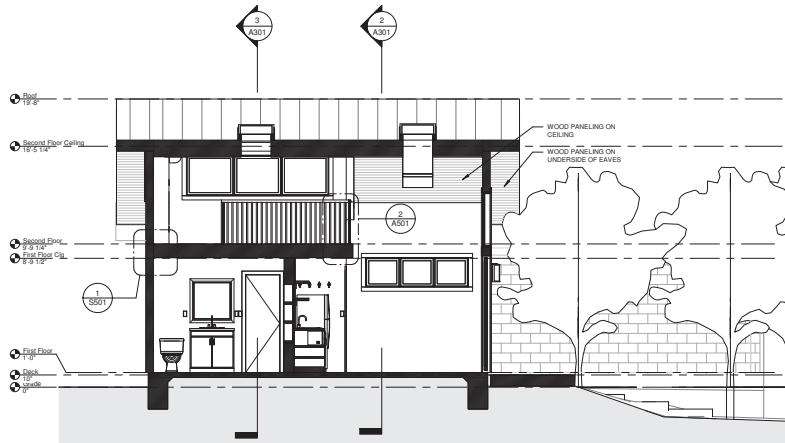
3131 38TH ST NW
WASHINGTON, DC 20016

No.	Description	Date

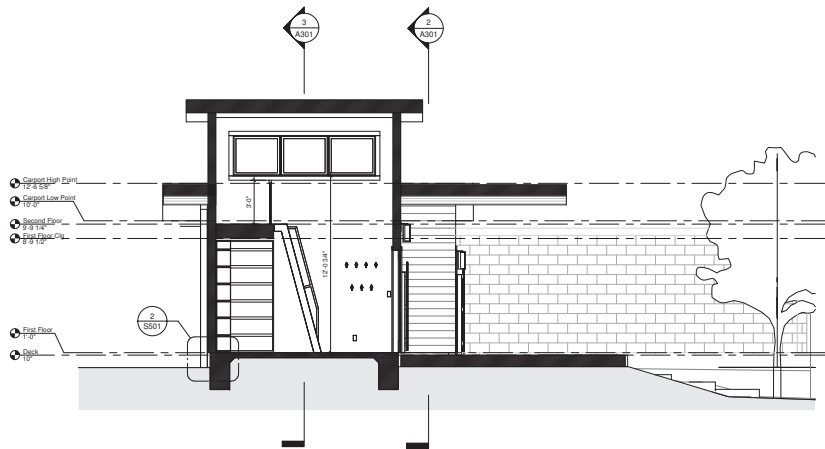
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Date
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04.08.21

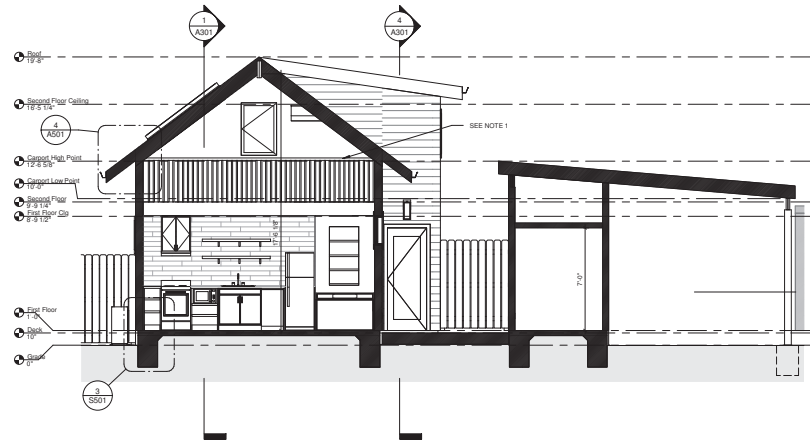
A201



1 East/West Section 1
1/4" = 1'-0"

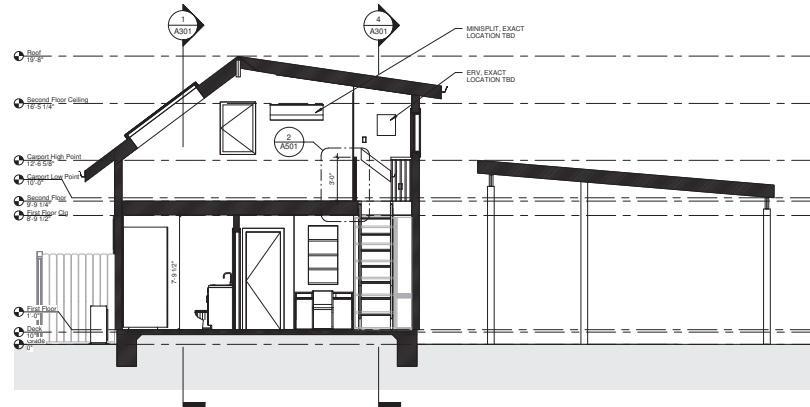


2 East/West Section 2
1/4" = 1'-0"



2 North/South Section 1
1/4" = 1'-0"

NOTE:
1. GUARDRAIL TO MEET REQUIREMENTS OF SECTION R312.1 OF 2015 IRC



3 North/South Section 2
1/4" = 1'-0"

DAVIS ACCESSORY BUILDING

3131 38TH ST NW
WASHINGTON, DC 20016

No.	Description	Date

**BUILDING
SECTIONS**

Drawing Set PERMIT SET
Date 04.08.21

A301

THERMAL ENVELOPE/INSULATION NOTES:

- Air barrier and thermal barrier: Exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.
 - Air-permeable insulation shall not be used as a sealing material.
 - The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any ceiling/attic gases in the air barrier sealed. Access openings, drop down stair or knee wall doors to unconditioned attic spaces shall be sealed.
 - Walls: The junction of the top plate and top of exterior walls shall be sealed. Knee walls shall be sealed. Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
 - Windows, skylights and doors: The space between window/door jambs and framing and skylights and framing shall be sealed.
 - Rim joists: Rim joists shall be insulated and include the air barrier.
 - Floors: Insulation shall be installed to maintain permanent contact with underside of subfloor (including above-garage and cantilevered floors) decking. The air barrier shall be installed at any exposed edge of insulation.
 - Crawl Space Walls: Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped. Where provided in lieu of floor insulation, insulation shall be permanently attached to crawl space walls.
 - Shafts, penetrations: Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.
 - Narrow cavities: Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
 - Garage separation: Air sealing shall be provided between the garage and conditioned spaces.
 - Recessed lighting: Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.
 - Plumbing and wiring: Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or plumbing and wiring. Insulation that on installation readily conforms to available space shall extend behind piping and wiring.
 - Shower/tub on exterior wall: Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.
 - Electrical/phone box on exterior walls: The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.
 - HVAC register boots: HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.
 - Fireplace: An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors.
 - Joints, seams and connections: Closure systems used to seal flexible air ducts and flexible air connectors shall comply with UL 181 B and shall be marked "181 B-FX" for pressurized sensitive tape or "181 BM" for mastic. Duct connections to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25.4 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint.
 - Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer's instructions. Round metallic ducts shall be mechanically fastened by means of at least three sheet metal screws or rivets spaced equally around the joint. Unlisted duct tape shall not be permitted as a sealant on any duct.
- Exceptions:
- Spray polyurethane foam shall be permitted to be applied without additional joint seals.
 - Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
 - Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

- Mechanical system piping insulation: Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- Protection of piping insulation: Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- Insulation and fenestration criteria: The building thermal envelope must meet the requirements of Table R402.1.1 based on the climate zone specified in Section R401.10.
- Mechanical ventilation: The building shall be provided with ventilation that meets the requirements of Section M1507 of this code or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- Eave baffle: For air permeable insulations in vented attics, a baffle shall be installed adjacent to soffit and eave vents. Baffles shall maintain an opening equal or greater than the size of the vent. The baffle shall extend over the top of the attic insulation. The baffle shall be permitted to be any solid material.

- Duct and plenum insulation and sealing: All supply and return air ducts and plenums shall be insulated with a minimum of R-6 insulation where located in unconditioned spaces and a minimum of R-8 insulation where located outside the building. Where located within a building envelope assembly, the duct or plenum shall be separated from the building exterior or unconditioned or exempt spaces by a minimum of R-8 insulation.

Exceptions:

- Where located within equipment.
- Where the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15°F (8°C). All ducts, air handlers and filter boxes shall be sealed. Joints and seams shall comply with Section 603.9 of the International Mechanical Code.
- Hot water pipe insulation: Insulation for hot water pipe with a minimum thermal resistance (R-value) of R-3 shall be applied to the following:
 - Piping larger than 3/4-inch nominal diameter.
 - Piping serving more than one dwelling unit.
 - Piping from the water heater to kitchen outlets.
 - Piping located outside the conditioned space.
 - Piping from the water heater to a distribution manifold.
 - Piping located under a floor slab.
 - Buried piping.
 - Supply and return piping in recirculation systems other than demand recirculation systems.
- Mechanical ventilation: The building shall be provided with ventilation that meets the requirements of Section M1507 of this code or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

See Table R402.1.2 of the International Energy Conservation Code in its entirety and insert new Table R402.1.2 in the Energy Conservation Code-Residential Provisions in its place to read as follows:

TABLE R402.1.2
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

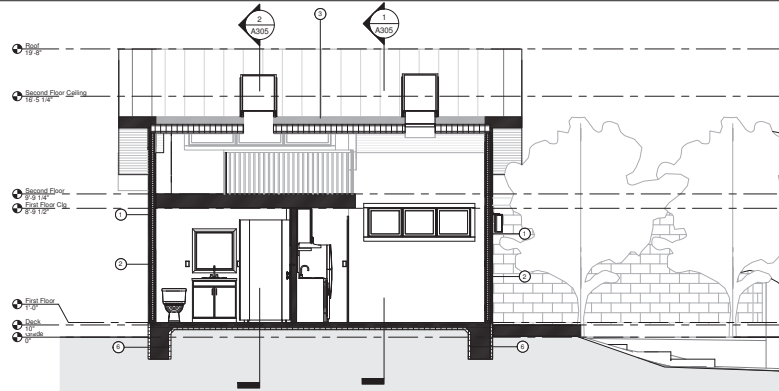
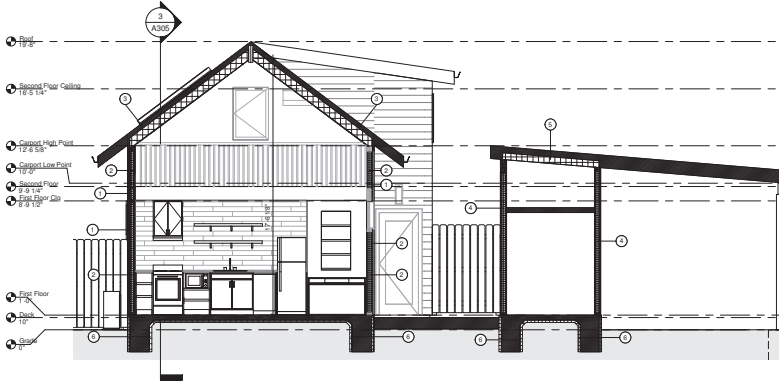
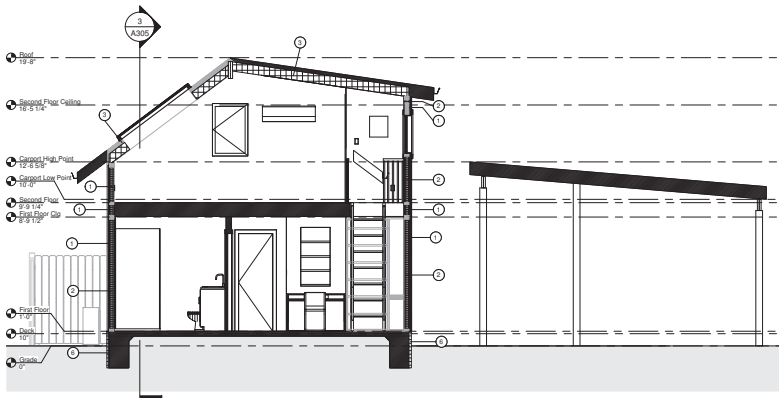
FENESTRATION U-FACTOR ^b	U-0.35 U-factor
MINIMUM R-VALUE ^c	R-10 U-factor
GLAZED FENESTRATION SHGC ^d	0.40 Solar Heat Gain Coefficient (SHGC)
CEILING	R-40
WOOD FRAME WALL AND RIM JOISTS	R-10 in cavity + R-5 continuous on the exterior, or R-13 in cavity + R-10 continuous on the exterior, or R-17 continuous on the exterior
MASS WALL	R-15 continuous on the exterior, or R-20 continuous on the exterior
FRAME FLOOR	R-25 + R-5 continuous
ELEVATED SLAB	R-15 continuous
BASEMENT WALL	R-10 in cavity + R-5 continuous on the exterior, or R-13 in cavity + R-10 continuous on the exterior, or R-17 continuous
SLAB ON GRADE	R-10 perimeter insulation for a depth of 2 ft
CONDITIONED CRAWLSPACE WALL	R-10 cavity + R-5 continuous on the exterior, or R-13 in cavity + R-10 continuous on the exterior, or R-17 continuous

For SI, 1 foot = 304.8 mm.

- R-values are minimum. U-factors and SHGC are maximum. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- The second R-value applies when more than half the insulation is on the interior of the mass wall.
- R-5 shall be added to the required slab edge R-values for heated slabs.

INSULATION SCHEDULE

- 2P R-6 SHEATHING or INTEGRATED HOUSE WRAP, CONTINUOUS ON EXTERIOR
- R-21, 3" CLOSED CELL SPRAY FOAM INSULATION AT EXTERIOR WALLS & BANDS
- R-49, 2" CLOSED CELL SPRAY FOAM INSULATION AT RAFTERS
- R-14, 2" CLOSED CELL SPRAY FOAM INSULATION AT EXTERIOR WALLS
- R-38, 5.5" CLOSED CELL SPRAY FOAM INSULATION AT RAFTERS
- R-10, 2" RIGID INSULATION AT SLAB PERIMETER FOR DEPTH OF 2 FT

3 East/West Thermal Envelope Section 1
1/4" = 1'-0"1 North/South Thermal Envelope Section 1
1/4" = 1'-0"2 North/South Thermal Envelope Section 2
1/4" = 1'-0"

FOUR BROTHERS
DESIGN + BUILD
4009 GEORGIA AVE. NW | WASHINGTON, DC 20011
202.453.8703 | www.fourbrothersdc.com

DAVIS ACCESSORY BUILDING

3131 38TH ST NW
WASHINGTON, DC 20016

No.	Description	Date

THERMAL
ENVELOPE

Drawing Set
Date

PERMIT SET
04.08.21

A305

STATEMENT OF ATTESTATION: I AM RESPONSIBLE FOR DETERMINING THAT THE ARCHITECTURAL
DESIGNS INCLUDED IN THIS APPLICATION ARE IN COMPLIANCE WITH THE LAWS AND REGULATIONS OF
THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE
DEVELOPMENT OF, THE ARCHITECTURAL DESIGNS INCLUDED IN THIS APPLICATION.

4/19/2021 12:24:29 PM



DAVIS ACCESSORY BUILDING

3131 38TH ST NW
WASHINGTON, DC 20016

No.	Description	Date

ENLARGED
PLANS AND
INTERIOR
ELEVATIONS

Drawing Set PERMIT SET
Date 04.08.21

A401