

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.
7. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
8. 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.
9. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

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 EROSION & SEDIMENT CONTROL MEASURES BIWEEKLY AND AFTER RAINFALL EVENTS. AVAILABILITY TO RESPOND TO POTENTIAL EROSION PROBLEMS AS THEY OCCUR AND AVAILABILITY TO SPEAK ONSITE WITH DDOE TO REMEDY POTENTIAL PROBLEMS. THE RESPONSIBLE PERSON IS TO HAVE AVAILABLE ONSITE PROOF OF PROFESSIONAL LICENSING OR SUCCESSFUL COMPLETION OF A DEPARTMENT APPROVED TRAINING PROGRAM IN COMPLIANCE OF RESPONSIBLE PERSON DESIGNATION.

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STRAW BALE DIKES, INLET PROTECTION, SUMP PIT, PORTABLE SEDIMENT TANK, STABILIZED TREE PROTECTION, AND SILT FENCE AS INDICATED ON SHEET C-2. SEE SHEET C-5 FOR EROSION AND SEDIMENT 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 PROPOSED UTILITIES AS INDICATED ON SHEET C-4.
5. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
6. CONSTRUCT BMPs AS INDICATED ON SHEET C-3.
7. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

EROSION AND SEDIMENT CONTROL NOTE:

1. THE APPLICANT MUST NOTIFY THE DISTRICT DEPARTMENT OF ENVIRONMENT BY PHONE (202-535-2977) AT LEAST 72 HOURS PRIOR TO THE START OF LAND DISTURBING 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, DISTRICT DEPARTMENT OF ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.
2. REMOVAL OF ANY EROSION AND SEDIMENT CONTROL MEASURES REQUIRES APPROVAL FROM DDOE INSPECTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
4. PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
5. CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF ENVIRONMENT, WATERSHED PROTECTION DIVISION.
6. PROVIDE A CHAIN LINK FENCE AT PERIMETER OF SITE
7. NO LATER THAN THE FIRSTDAY OF CONSTRUCTION, INSTALL SITE ACCESS MEASURES TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURES REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATERWAY.

8. REMOVE OFF-SITE ACCUMULATION OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF DDOE INSPECTOR.
9. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DE-STABILIZATION AREAS.
10. STRAW BALE DIKES WILL BE REPLACED EVERY THREE (3) MONTHS UNTIL COMMENCEMENT OF CONSTRUCTION.

TOTAL SITE AREA:
TOTAL SITE AREA: 106,142 SF / 2.44 AC

TOTAL VOLUME OF CUT OF SITE WORK:
TOTAL AREA OF EXCAVATION: XXX SF / XXX AC
VOLUME OF CUT: XXXX SQ.FT. (AREA) X 1 FEET (DEPTH)
27

VOLUME OF CUT: XXXX cy +/-

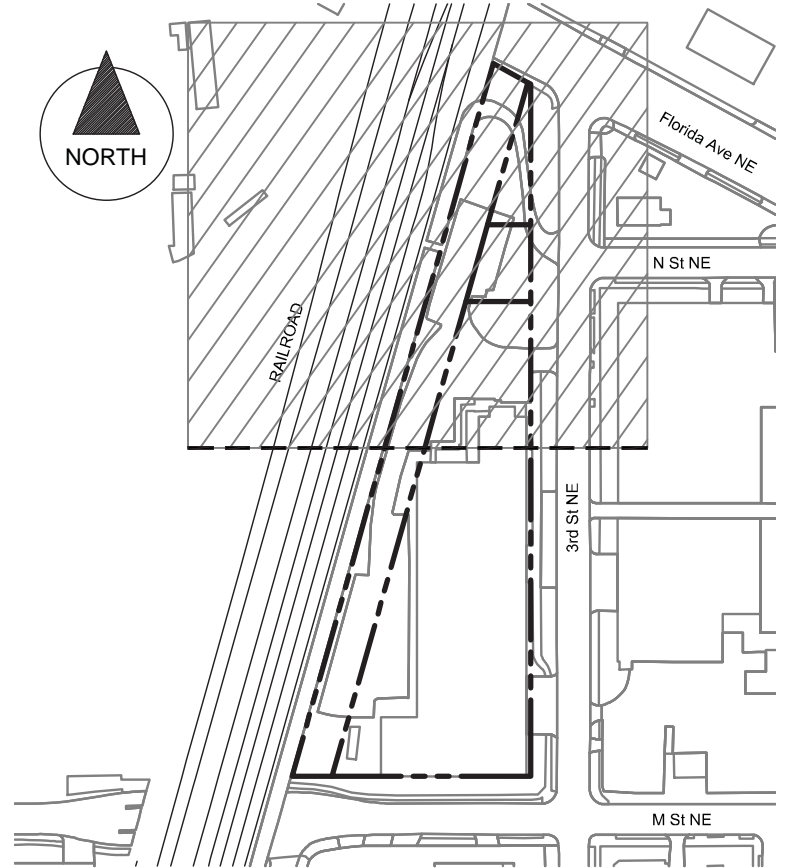
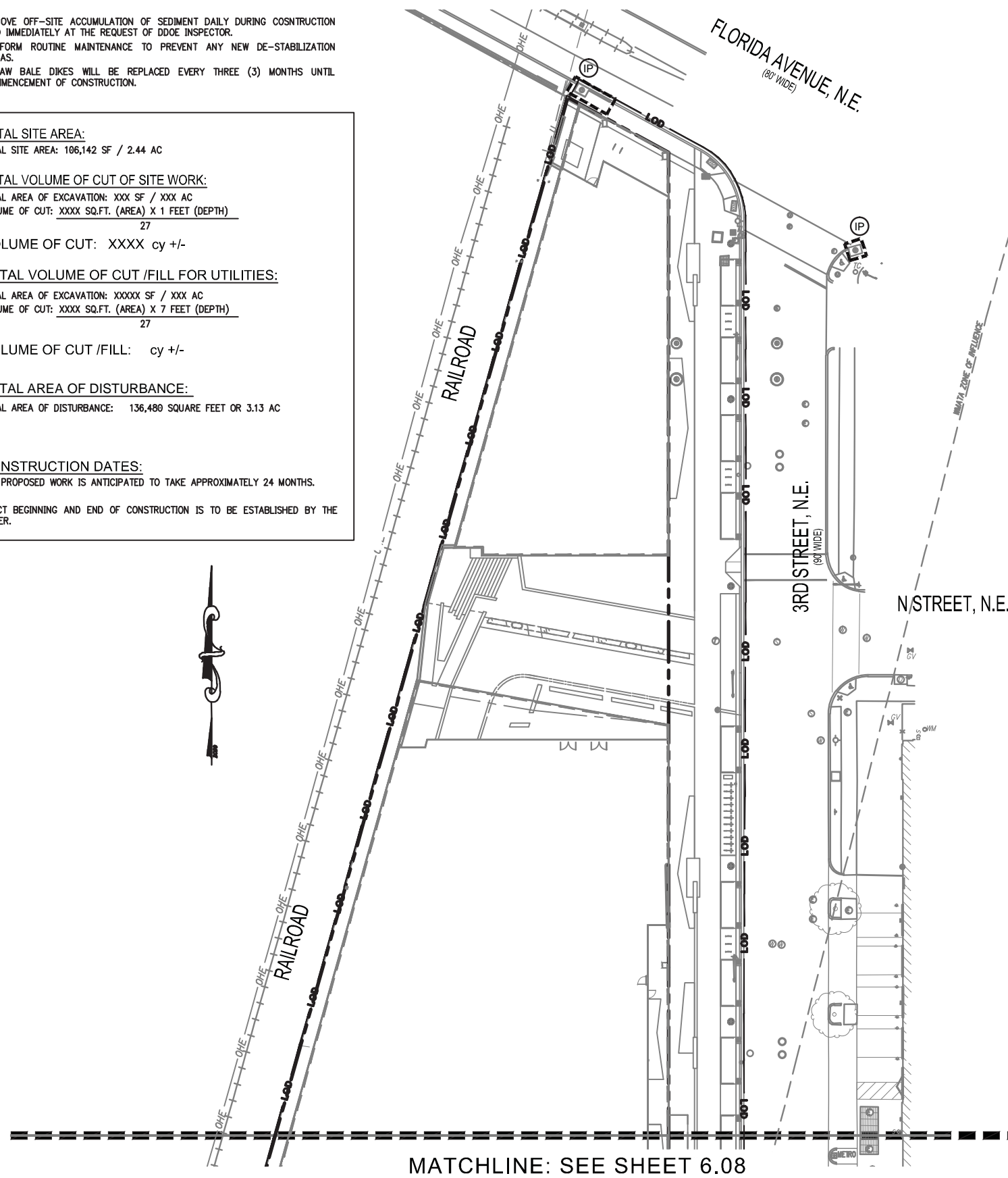
TOTAL VOLUME OF CUT /FILL FOR UTILITIES:
TOTAL AREA OF EXCAVATION: XXXX SF / XXX AC
VOLUME OF CUT: XXXX SQ.FT. (AREA) X 7 FEET (DEPTH)
27

VOLUME OF CUT /FILL: cy +/-

TOTAL AREA OF DISTURBANCE:
TOTAL AREA OF DISTURBANCE: 136,480 SQUARE FEET OR 3.13 AC

CONSTRUCTION DATES:
THE PROPOSED WORK IS ANTICIPATED TO TAKE APPROXIMATELY 24 MONTHS.

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



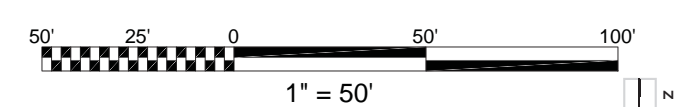
KEYMAP
SCALE: 1"=200'

LEGEND

- PROPOSED
- STABILIZED CONSTRUCTION ENTRANCE
- WASH RACK
- INLET PROTECTION
- APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION
- APPROXIMATE LIMIT OF DISTURBANCE
- TREE PROTECTION

THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY

GENERAL NOTE: The exact location of the structural wall supporting the Amtrak track bed, and the design of the area immediately adjacent, may deviate from that shown based on the final engineering of the foundation system developed in coordination with Amtrak.



1200 THIRD STREET, NE

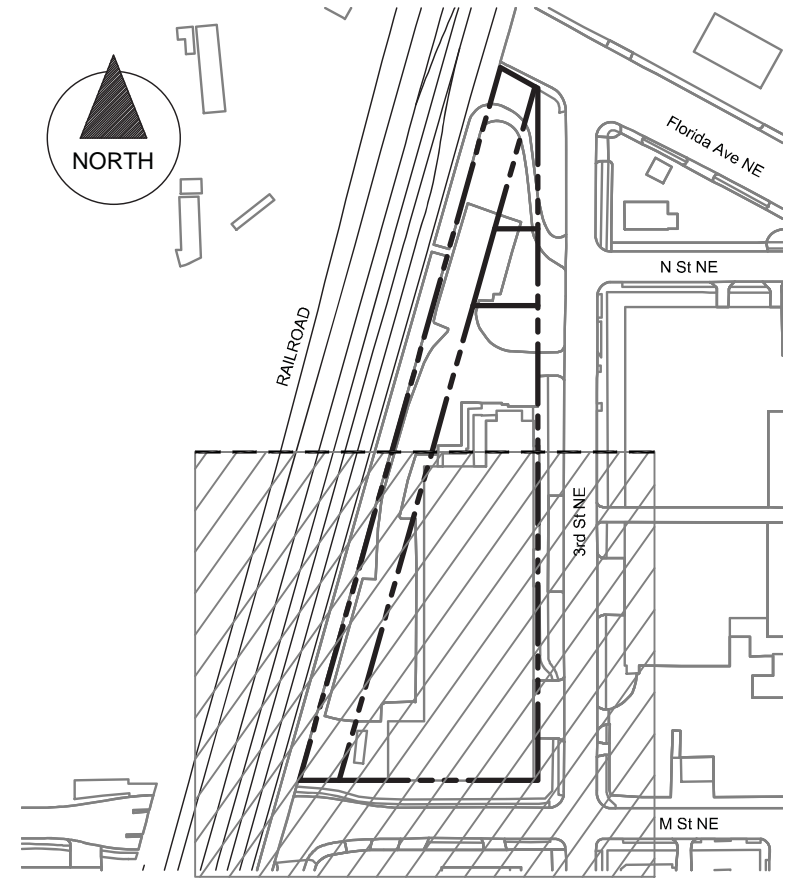
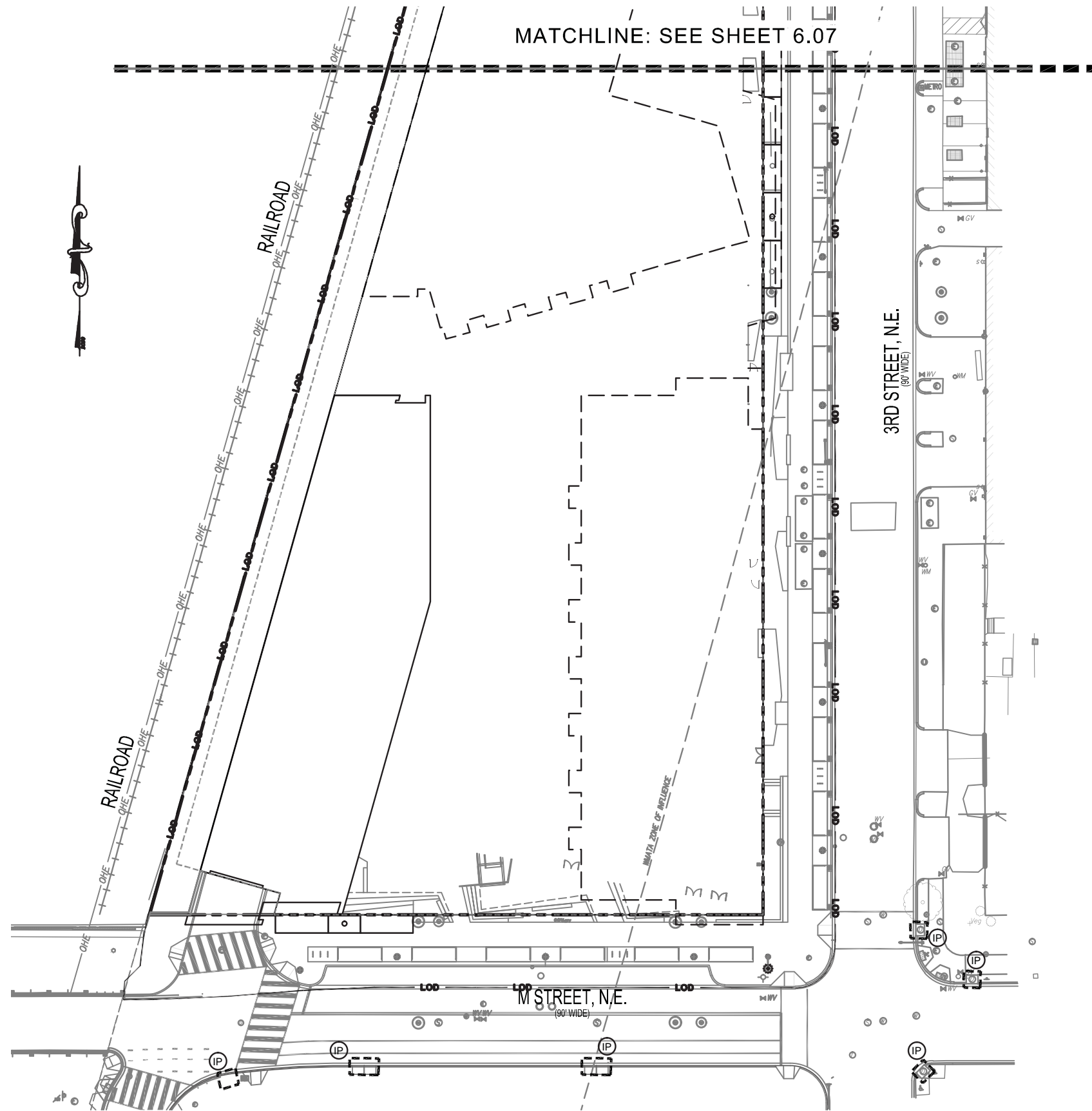
PUD SUBMISSION

WASHINGTON, D.C.

October 14, 2016 sba project #45128 ©2016 Shalom Baranes Associates P.C.

Civil - Sedimentation and Erosion Control Plan for 1200 Third Street, NE, DC 20003

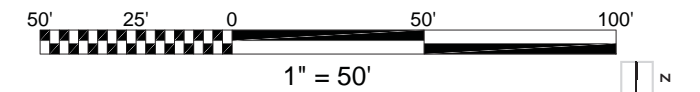
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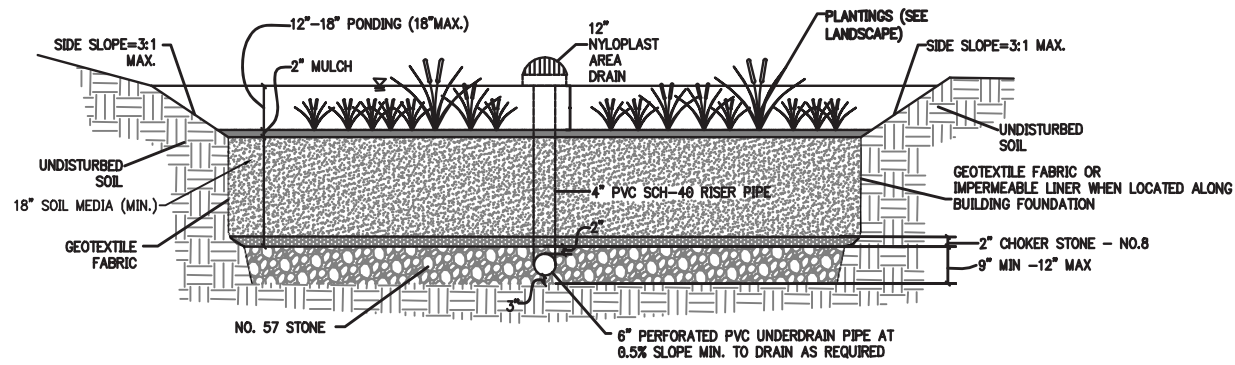


KEYMAP
SCALE: 1"=200'

LEGEND	
STABILIZED CONSTRUCTION ENTRANCE	
WASH RACK	
INLET PROTECTION	
APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION	
APPROXIMATE LIMIT OF DISTURBANCE	
TREE PROTECTION	

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PURPOSES ONLY





PROPOSED STORMWATER MANAGEMENT NARRATIVE:

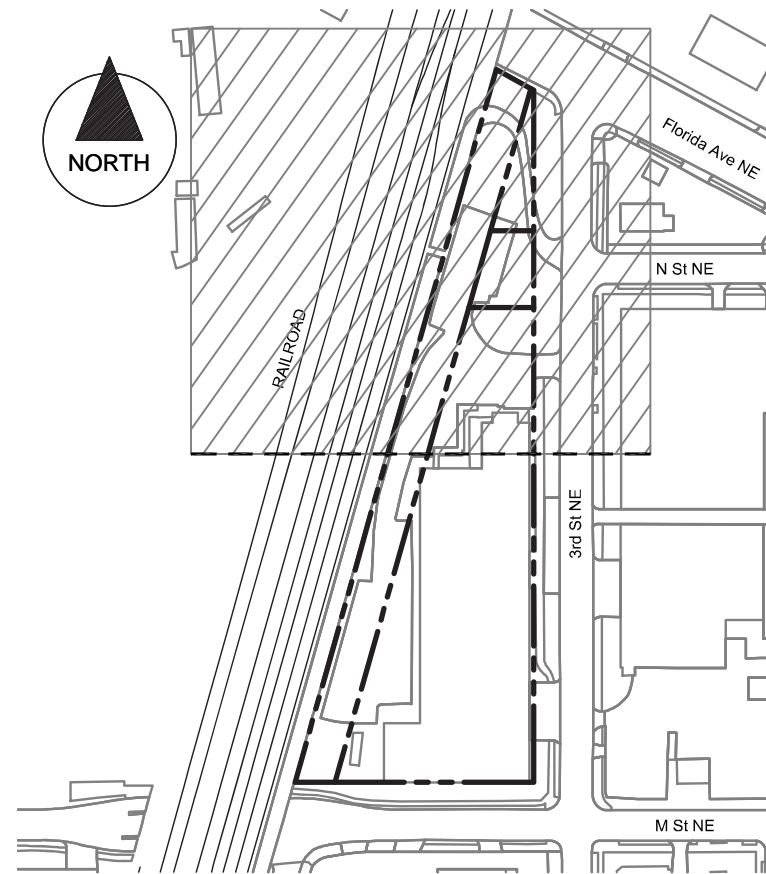
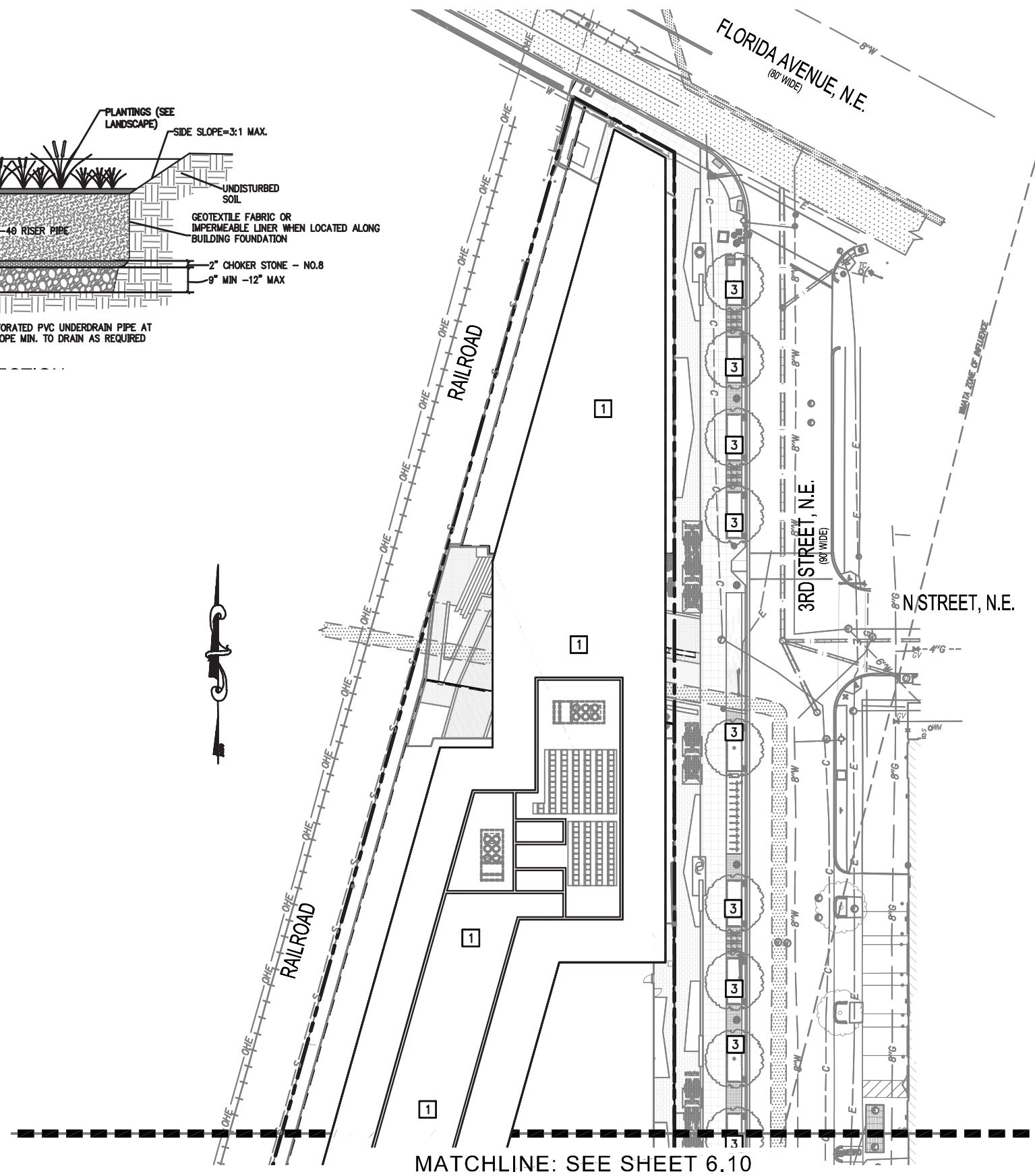
THE PROPOSED PROJECT CONSISTS OF THE REMOVAL OF AN EXISTING STRUCTURE AND NEW CONSTRUCTION OF THREE ADDITIONAL STRUCTURES, UPDATED PRIVATE AND PUBLIC SPACE LANDSCAPE AND NEW UNDERGROUND INFRASTRUCTURE. BMP FACILITIES WILL BE STRATEGICALLY LOCATED DOWNSTREAM OF SURFACE FLOW TO CAPTURE AND RETAIN STORMWATER PER DOEE REGULATION. DOEE SWM COMPLIANCE WILL BE ACHIEVED WITH THE MIXTURE OF BMP FACILITIES LOCATED THROUGHOUT THE SITE. ADDITIONAL BMP FACILITIES WILL BE LOCATED IN PUBLIC SPACE TO TREAT STORMWATER TO MAXIMUM EXTENT PRACTICABLE. COMPLIANCE CALCULATION AND DATA SHEET FOR THE SITE AND MAINTENANCE CRITERIA FOR ALL BMPs WILL BE INCLUDED ON PLAN SHEETS. THE DESIGNER, INSTALLER AND DOEE INSPECTOR MUST HAVE A PRE-CONSTRUCTION MEETING TO ENSURE ALL PARTIES ARE AWARE OF DESIGN INTENTIONS AND WILL CONFORM TO ORIGINAL DESIGN.

SWM KEYNOTES:

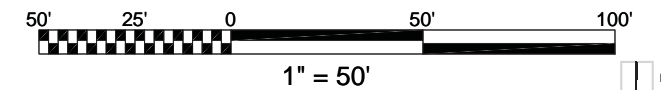
- 1 POTENTIAL LOCATION OF ROOFTOP BMP
- 2 POTENTIAL LOCATION OF GROUND SURFACE BMP WITHIN THE PROPERTY
- 3 POTENTIAL LOCATION OF SWM BMP LOCATED WITHIN PUBLIC SPACE

NOTES:

- 1. ALL STORMWATER MANAGEMENT BMPs ARE SHOWN IN CONCEPT FOR ILLUSTRATIVE PURPOSES. FINAL TYPE, SIZE, AND LOCATION MAY VARY DEPENDENT ON FINAL DESIGN ANALYSIS AND ABILITY TO CONFORM TO REGULATORY AGENCIES REQUIREMENTS.
- 2. BIORETENTION DETAIL IS PER TYPICAL STORMWATER GUIDEBOOK MINIMUM REQUIREMENTS. ACTUAL DESIGN SHALL BE BASED ON SPECIFIC SITE CONDITIONS APPLICABLE DESIGN REQUIREMENTS.



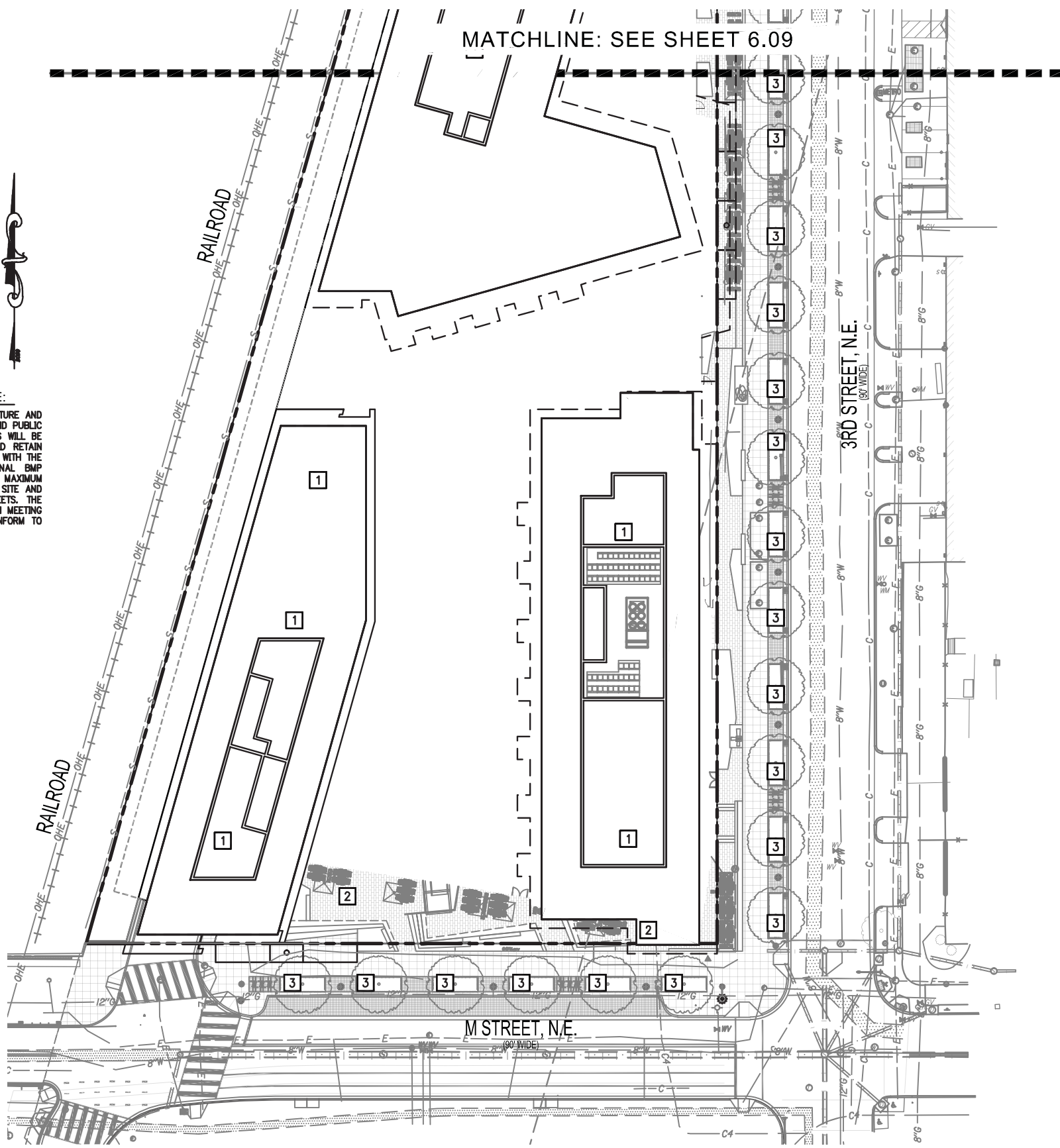
KEYMAP
SCALE: 1"=200'



1200 THIRD STREET, NE

PUD SUBMISSION





PROPOSED STORMWATER MANAGEMENT NARRATIVE:

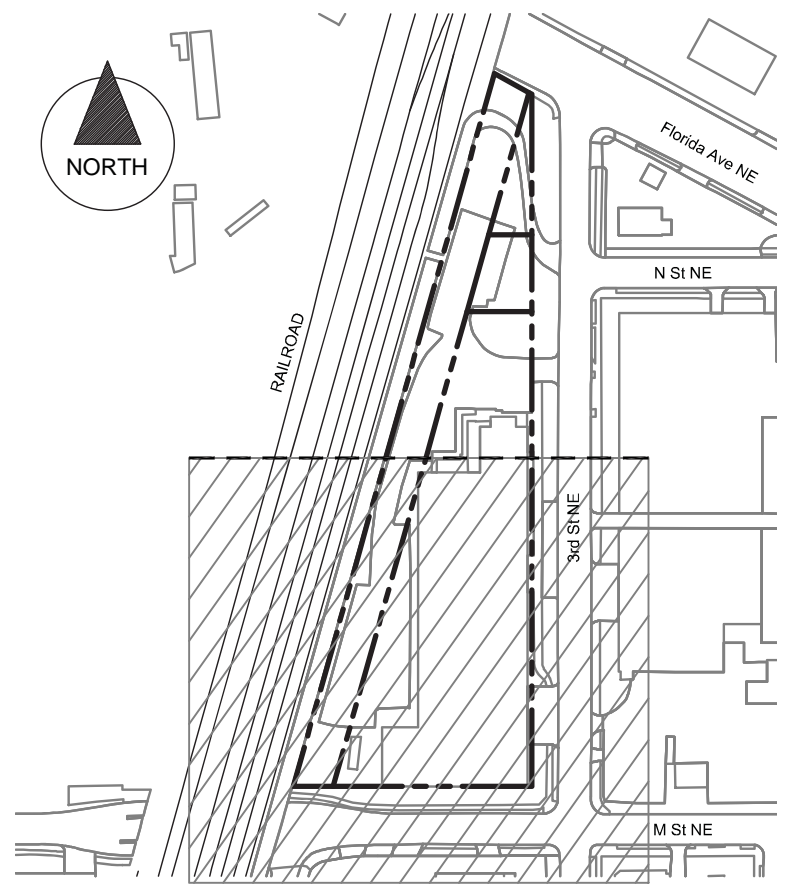
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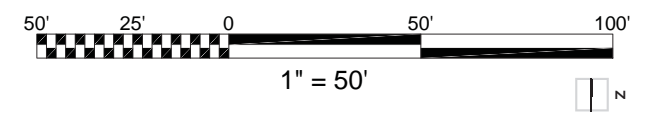
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- 2** POTENTIAL LOCATION OF GROUND SURFACE BMP WITHIN THE PROPERTY
- 3** POTENTIAL LOCATION OF SWM BMP LOCATED WITHIN PUBLIC SPACE

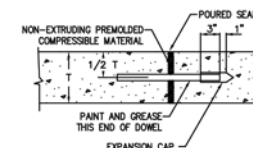
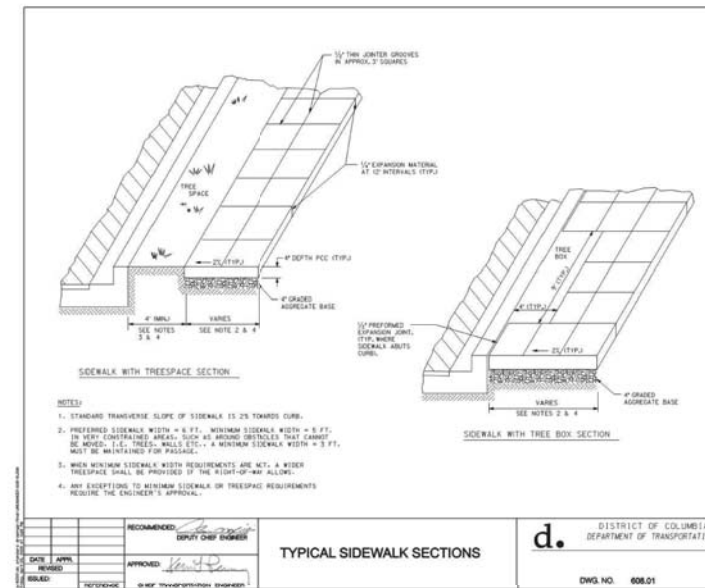
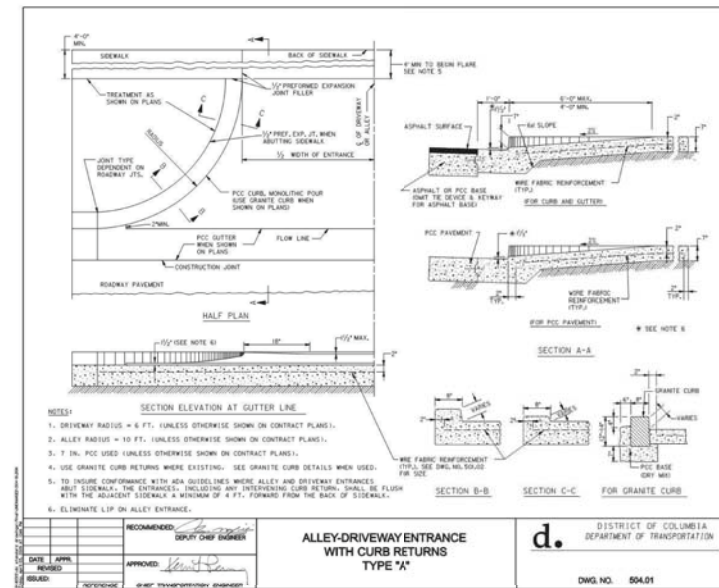
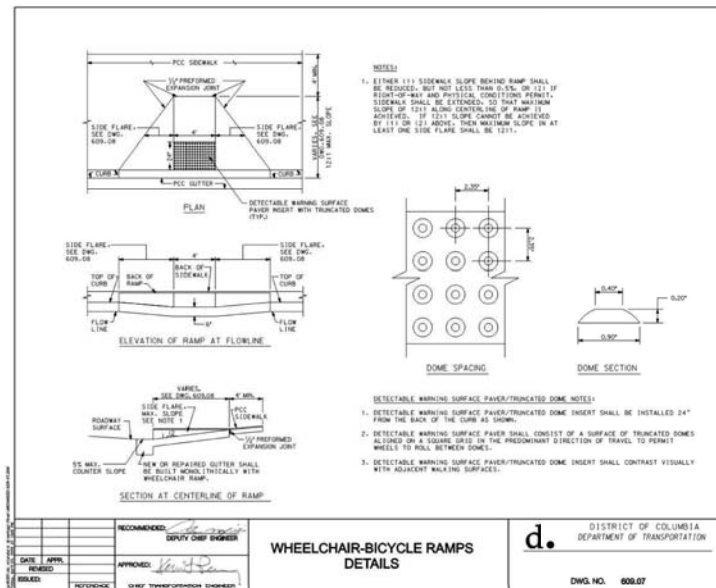
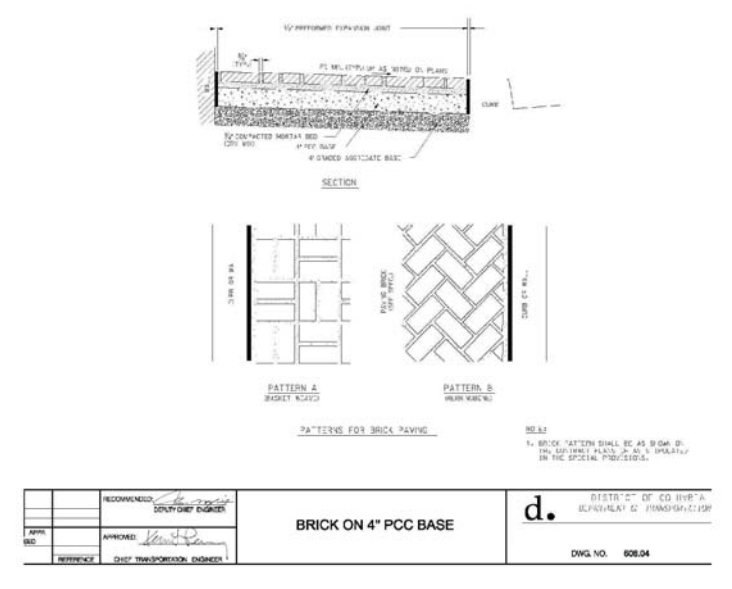
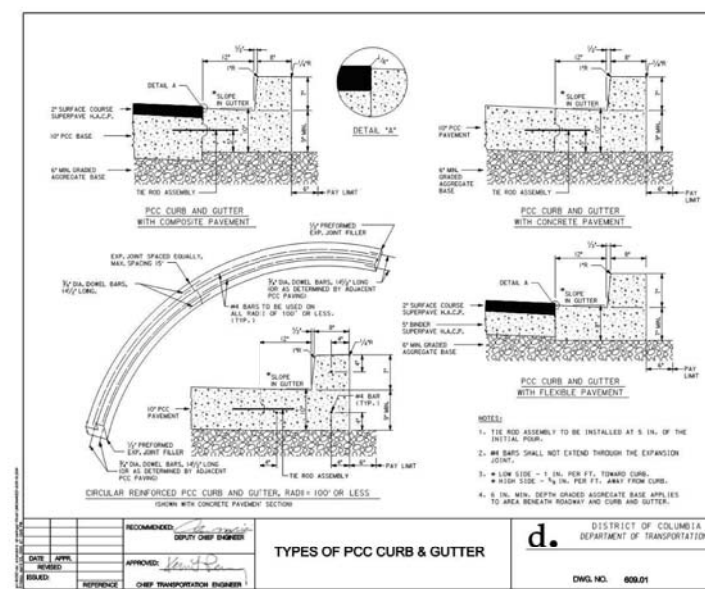
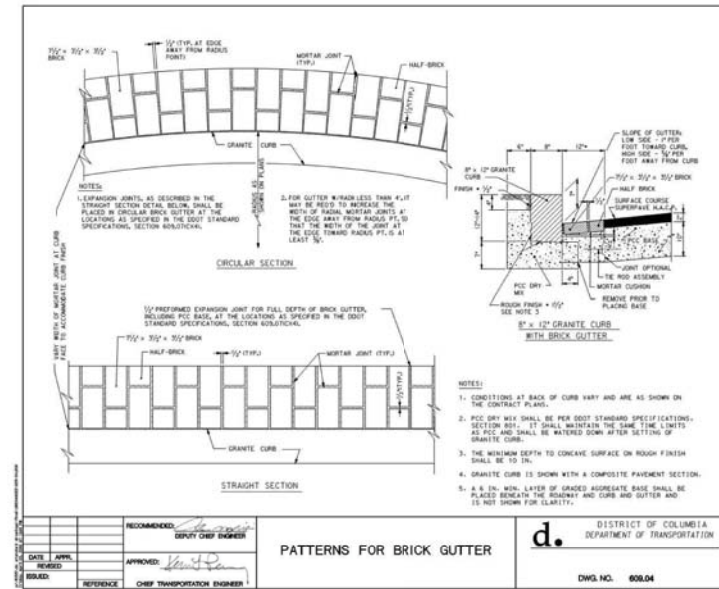
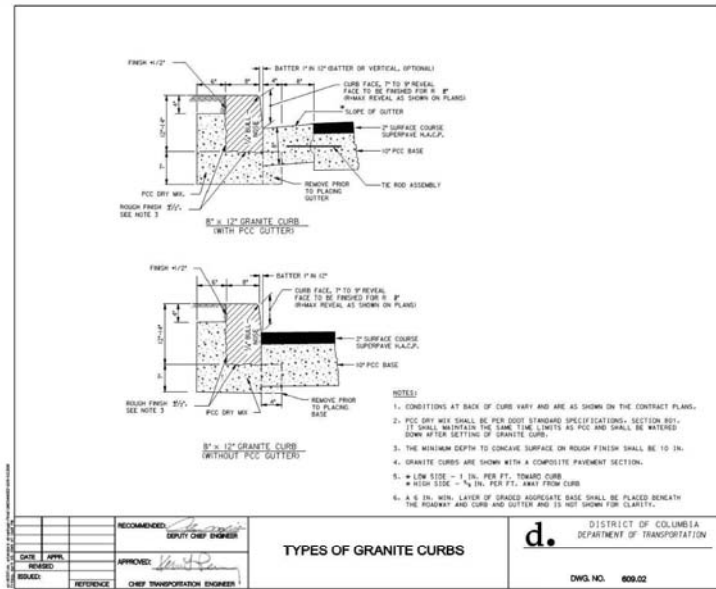
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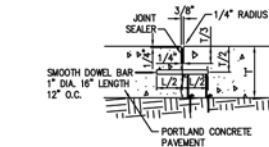


KEYMAP
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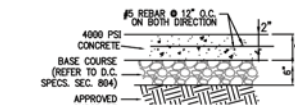
DOWELED TRANSVERSE EXPANSION JOINT FOR CONCRETE DRIVEWAY APRON (NOT TO SCALE)



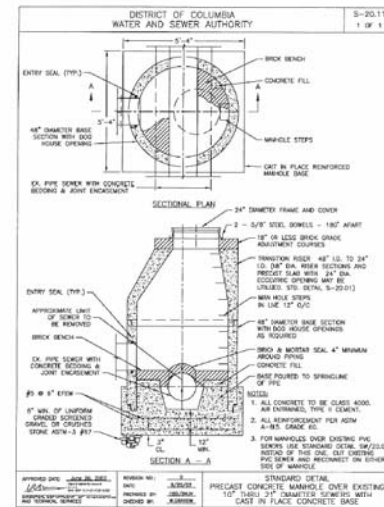
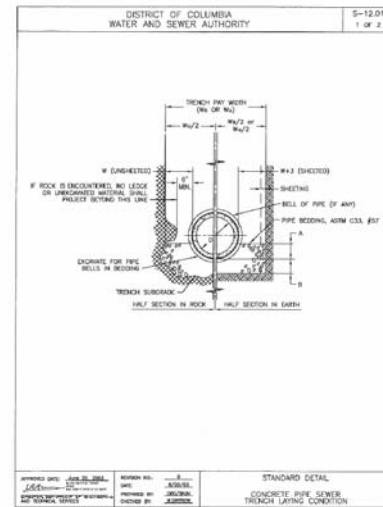
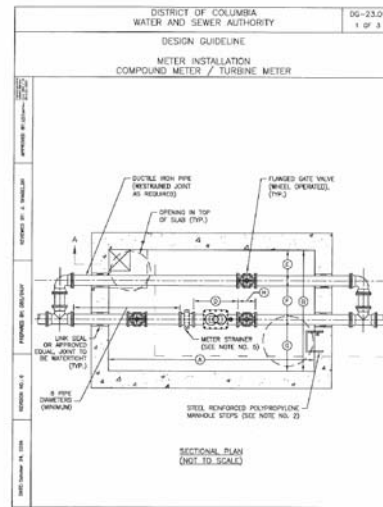
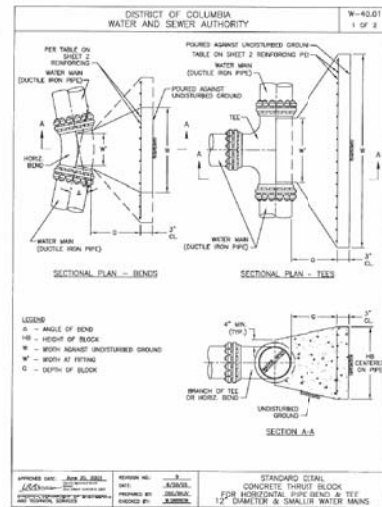
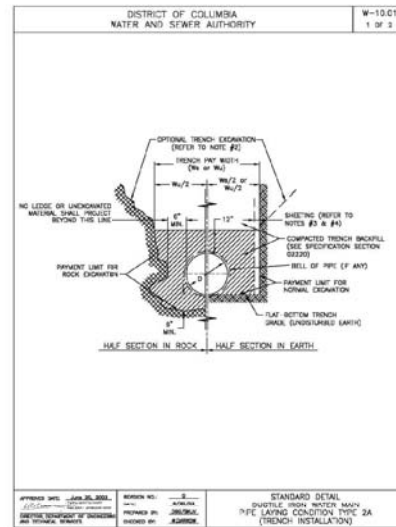
CONTRACTION JOINT WITH LOAD TRANSFER FOR CONCRETE DRIVEWAY APRON (NOT TO SCALE)



NEW ASPHALT PAVEMENT (NOT TO SCALE)



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



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY W-10-01 2 OF 2

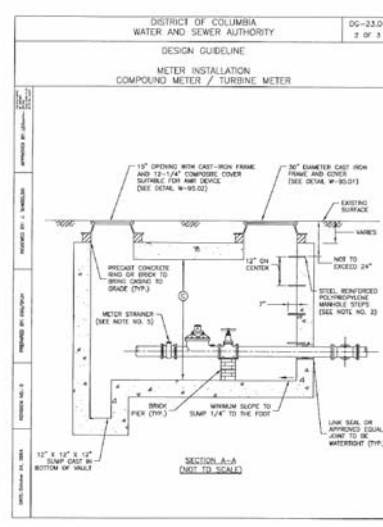
TRENCH FAY WIDTH (ON OR IN)		DESIGNATED EXCAVATION		ADJUSTED EXCAVATION	
PIPE DIAMETER	DESIGNATED EXCAVATION	DESIGNATED EXCAVATION	ADJUSTED EXCAVATION	DESIGNATED EXCAVATION	ADJUSTED EXCAVATION
8"	2' - 10"	2' - 4"	2' - 4"	2' - 4"	2' - 4"
10"	2' - 2"	2' - 8"	2' - 8"	2' - 8"	2' - 8"
12"	2' - 2"	2' - 8"	2' - 8"	2' - 8"	2' - 8"
18"	2' - 10"	2' - 4"	2' - 4"	2' - 4"	2' - 4"
24"	4' - 2"	2' - 4"	2' - 4"	2' - 4"	2' - 4"
30"	4' - 8"	4' - 2"	4' - 2"	4' - 2"	4' - 2"
36"	6' - 1"	4' - 2"	4' - 2"	4' - 2"	4' - 2"
42"	6' - 7"	6' - 1"	6' - 1"	6' - 1"	6' - 1"
48"	7' - 1"	6' - 7"	6' - 7"	6' - 7"	6' - 7"

NOTES:
 1. PIPE LAYING CONDITION TYPE ON TRENCH INSTALLATIONS SHALL BE USED FOR ALL WATER MAIN CONSTRUCTION UNLESS OTHERWISE SPECIFIED OR SHOWN ON DRAWINGS.
 2. TRENCHES MAY BE EXCAVATED WIDER THAN THE TRENCH FAY WIDTH (ON OR IN) ABOVE A LINE 1" - 6" FROM TOP OF PIPE AT CONTRACTOR'S OPTION AND AT AN ADDITIONAL COST TO THE AUTHORITY.
 3. IF EXCAVATION BELOW NORMAL DEPTH OF WATER MAIN INSTALLATION DEPTHS GREATER THAN 4.5 FEET IS REQUIRED, EXCAVATION SUPPORT SYSTEMS MAY BE ORDERED OR CONTRACTOR UTILIZES CONTRACTOR'S OPTION. COSTS UNDER THIS OPTION SHALL BE PART OF THE UNIT PRICE BID FOR EXCAVATION.
 4. SHEETING, IF USED, SHALL BE REMOVED IN CONJUNCTION WITH THE BACKFILLING OPERATION UNLESS OTHERWISE SPECIFIED BY NUMBER OR OTHERWISE APPROVED BY APPROVED IN WRITING. SHEETING MAY BE CUT-OFF AND LEFT IN PLACE BELOW A LINE 1" - 6" ABOVE THE TOP OF PIPE OR AS DIRECTED BY THE ENGINEER.

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY W-40-01 2 OF 2

PIPE DIAMETER	BEND TYPE	W	H	W'	C	REIN. (LxW)
8"	90°	12.00	1.00	1.00	0.00	2#4 @ 12"
	45°	12.00	1.00	1.00	0.00	2#4 @ 12"
	135°	12.00	1.00	1.00	0.00	2#4 @ 12"
	225°	12.00	1.00	1.00	0.00	2#4 @ 12"
10"	90°	12.00	1.00	1.00	0.00	2#4 @ 12"
	45°	12.00	1.00	1.00	0.00	2#4 @ 12"
	135°	12.00	1.00	1.00	0.00	2#4 @ 12"
	225°	12.00	1.00	1.00	0.00	2#4 @ 12"
12"	90°	12.00	1.00	1.00	0.00	2#4 @ 12"
	45°	12.00	1.00	1.00	0.00	2#4 @ 12"
	135°	12.00	1.00	1.00	0.00	2#4 @ 12"
	225°	12.00	1.00	1.00	0.00	2#4 @ 12"
18"	90°	18.00	1.00	1.00	0.00	2#4 @ 12"
	45°	18.00	1.00	1.00	0.00	2#4 @ 12"
	135°	18.00	1.00	1.00	0.00	2#4 @ 12"
	225°	18.00	1.00	1.00	0.00	2#4 @ 12"
24"	90°	24.00	1.00	1.00	0.00	2#4 @ 12"
	45°	24.00	1.00	1.00	0.00	2#4 @ 12"
	135°	24.00	1.00	1.00	0.00	2#4 @ 12"
	225°	24.00	1.00	1.00	0.00	2#4 @ 12"
30"	90°	30.00	1.00	1.00	0.00	2#4 @ 12"
	45°	30.00	1.00	1.00	0.00	2#4 @ 12"
	135°	30.00	1.00	1.00	0.00	2#4 @ 12"
	225°	30.00	1.00	1.00	0.00	2#4 @ 12"
36"	90°	36.00	1.00	1.00	0.00	2#4 @ 12"
	45°	36.00	1.00	1.00	0.00	2#4 @ 12"
	135°	36.00	1.00	1.00	0.00	2#4 @ 12"
	225°	36.00	1.00	1.00	0.00	2#4 @ 12"
42"	90°	42.00	1.00	1.00	0.00	2#4 @ 12"
	45°	42.00	1.00	1.00	0.00	2#4 @ 12"
	135°	42.00	1.00	1.00	0.00	2#4 @ 12"
	225°	42.00	1.00	1.00	0.00	2#4 @ 12"
48"	90°	48.00	1.00	1.00	0.00	2#4 @ 12"
	45°	48.00	1.00	1.00	0.00	2#4 @ 12"
	135°	48.00	1.00	1.00	0.00	2#4 @ 12"
	225°	48.00	1.00	1.00	0.00	2#4 @ 12"

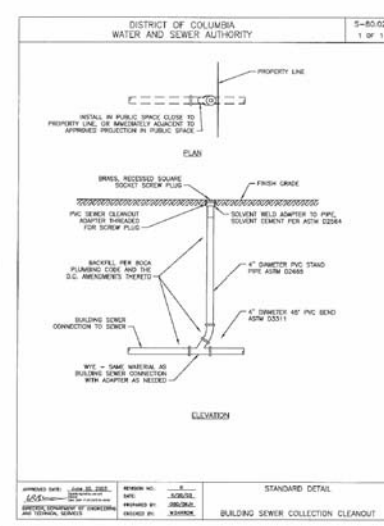
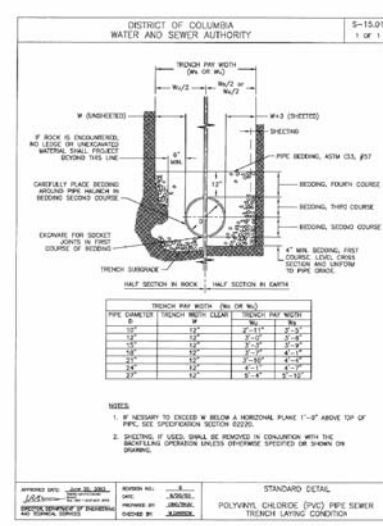
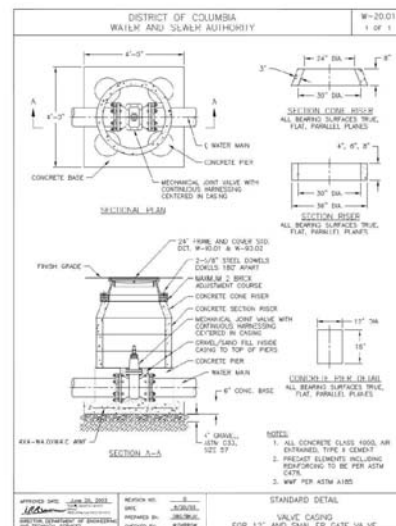
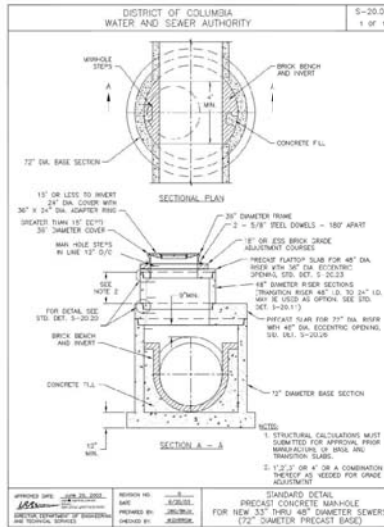
NOTES:
 1. ALL CONCRETE TO BE CLASS A800, AN ENHANCED, TYPE 1 CONCRETE.
 2. REINFORCING STEEL SHALL CONFORM TO ASTM SPEC. A601.
 3. NOMINAL DEPTH OF COVER ON WATER MAIN IS FOUR FEET.
 4. UNIT WEIGHT OF SOL. 135 PCF.
 5. DESIGN BASED ON $\phi = .90$ AND TEST PRESSURE = 195 PSI.
 6. H₂O - HEIGHT OF BLOCK, W' - WIDTH AT FITTING AND W - WIDTH AGAINST UNDERLINED GROUND SHOULD BE INDICATED ON PIPE AND FITTING.
 7. FOR PIPE SIZE GREATER THAN 12" BLOCK BEGGING IN BOLD HEADERS MAIN + JOINT, OR FOR MAIN WITH A TEST PRESSURE GREATER THAN 150 PSI, THE THROAT BLOCK MUST BE SPECIALLY DESIGNED FOR EACH APPLICATION.

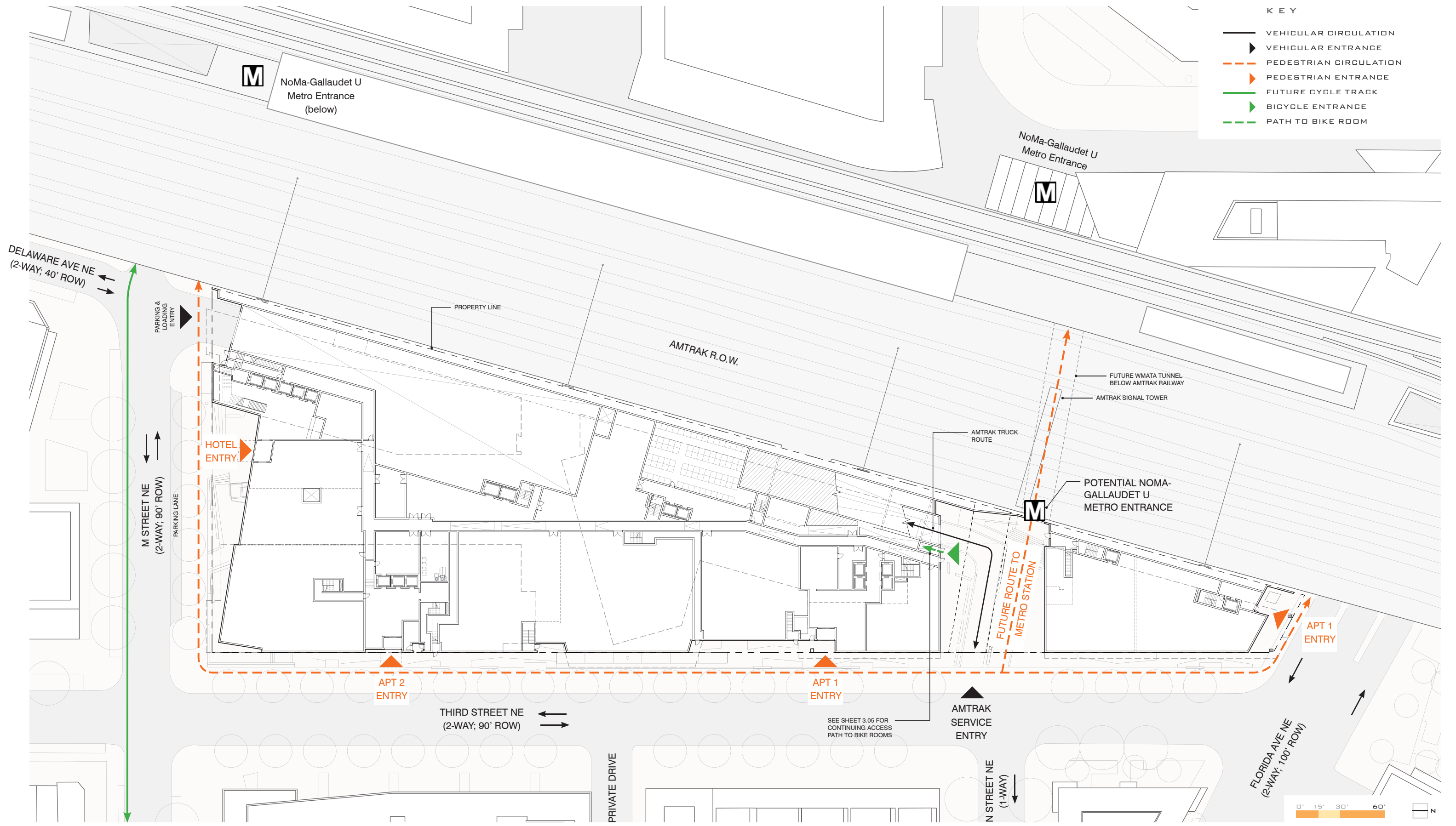


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PIPE DIAMETER	PIPE BEDDING DIMENSION	TRENCH FAY WIDTH
D	A	B
8"	12"	2' - 10"
10"	12"	2' - 2"
12"	12"	2' - 2"
18"	12"	2' - 10"
24"	12"	2' - 2"
30"	12"	2' - 2"
36"	12"	2' - 10"
42"	12"	2' - 2"
48"	12"	2' - 2"
54"	12"	2' - 10"
60"	12"	2' - 2"
66"	12"	2' - 2"
72"	12"	2' - 10"
78"	12"	2' - 2"
84"	12"	2' - 2"
90"	12"	2' - 10"
96"	12"	2' - 2"
102"	12"	2' - 2"
108"	12"	2' - 10"
114"	12"	2' - 2"
120"	12"	2' - 2"

NOTES:
 1. IF NECESSARY TO EXCEED W BELOW A HORIZONTAL PLANE 1'-0" ABOVE TOP OF PIPE, SEE SPECIFICATION SECTION 25.03.
 2. SHEETING, IF USED, SHALL BE REMOVED IN CONJUNCTION WITH THE BACKFILLING OPERATION UNLESS OTHERWISE SPECIFIED BY NUMBER OR OTHERWISE APPROVED IN WRITING. SHEETING MAY BE CUT-OFF AND LEFT IN PLACE BELOW A LINE 1" - 6" ABOVE THE TOP OF THE PIPE OR AS DIRECTED BY THE ENGINEER.





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PUD SUBMISSION

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