AMBIT ENGINEERING, INC.

CIVIL ENGINEERS AND LAND SURVEYORS 200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

28 July 2021

Dexter Legg, Chair City of Portsmouth Planning Board 1 Junkins Avenue Portsmouth, NH 03801

Re: **City of Portsmouth Application for Conditional Use Permit** Tax Map 215, Lot 9 **Off Woodbury Avenue-Oriental Gardens Mobile Home Park** Portsmouth, New Hampshire

Dear Mr. Legg:

On behalf of Kelly Property Trust (Oriental Gardens Home Park) the accompanying Project Narrative and Proposed Sewer Improvements and Drainage Maintenance Plan Set is submitted for review for a City of Portsmouth Wetland Conditional Use Permit Application request to permit a total of 4,741 square feet of disturbance within a wetland area as well as the 100' City of Portsmouth Wetland Buffer, on the above referenced site. The property currently exists as a Home Park, owned and operated by the permit applicant. The project has 2 key components: 1. Proposed Sewer Improvements, and 2. Drainage Maintenance. This project received various approvals in 2017; however the work was never undertaken. The approvals include NHDES Wetlands Board Approval 2017-01336 (copy attached) and City of Portsmouth Conditional Use Approval June 15, 2017 (copy attached). We request that we be placed on the agenda for the Conservation Commissions August 11, 2021 Meeting.

Proposed Sewer Improvements

The Proposed Sewer Improvements include removing an existing pump station and some associated piping. The pump station can be eliminated and a gravity connection can be made to the existing city sewer line. The city sewer line crosses the property in an existing dedicated easement. The associated subsurface piping will be removed / abandoned in place, and a portion of the sewer system will be reconstructed to operate by gravity with the installation of two pipe connections. Permission for the connections is simultaneously being filed with the Portsmouth Department of Public Works. This work involves some impact to the City of Portsmouth Wetland Buffer: this application is to obtain Planning Board approval for the work. The area of this work is a grassed lawn area as well as some of the roadway pavement. These areas will be returned to their existing condition upon completion of the sewer work.

Drainage Maintenance

The Drainage Maintenance consists of the removal of vegetation from the vicinity of the culvert outlet and the immediately adjacent downstream drainage swale. The culvert outlet is a part of the public drainage works for drainage on Woodbury Avenue. The outfall is just on the property of Oriental Gardens Home Park and upstream piping crosses an adjacent property which is currently the Starbucks site, all outside of the city Woodbury Avenue Right of Way. The project permit application includes the removal of sediment from the outlet of the existing 48" culvert and the installation of a stone plunge pool / rip rap apron at the outlet location to prevent erosion of the swale. This work involves some direct impact to the wetland (the swale area) and therefore requires approval from the NHDES Wetland Bureau. This approval was obtained in 2017, and the permit is valid until June of 2022. The construction also impacts the City of Portsmouth Wetland Buffer.

The following plans are included in our submission:

- Cover Sheet This shows the Owner, Legend, Site Location, and Site Zoning.
- Existing Conditions Plan C1 This plan shows the existing site conditions and topography. The site is adjacent to wetlands at the outlet of a 48 inch culvert; those wetlands have been delineated and shown.
- Sewer Improvement Plan C2 This plan shows the removal of certain sewage works and the proposed piping connections to the city sewer system.
- Drainage Maintenance Plan C3 This plan shows the proposed plunge pool.
- CUP Permit Plan C4 This plan shows the impact areas within the wetland and the City 100 foot Buffer.
- Detail Sheets D1 and D2 These plans show the associated erosion control notes and site construction details.

Attached to this application please find the following additional information for review:

- Copies of previous Correspondence and project approvals
- Photo logs

According to the City of Portsmouth Zoning Ordinance, *Article 10.1017.50 Criteria for Approval*, the proposal shall comply with the following criteria:

1. The land is reasonably suited to the use, activity or alteration.

The proposal is to provide needed maintenance to maintain an existing culvert outfall, remove an existing inoperable sewer pump station, and reconstruct the sewer to operate via gravity. The current inoperable sewer pump station is connected to the city sewer system, and the reconstructed sewer will also be connected to the city sewer system. The addition of the drainage outfall plunge pool will reduce flow velocity and thereby sediment transport. Due to this fact, the land is reasonable suited to the use, activity, or alteration.

2. There is no alternative location outside of the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.

The proposed plunge pool / rip rap outlet protection on the existing culvert, as well as the removal of the pump house and associated subsurface piping is currently located within the wetland buffer. There is no feasible method to perform the proposed work, or provide the new sewer connection, outside of the wetland buffer.

3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.

The proposal will not impact the existing wetland resource located adjacent to the site and its current functions and values. The rip rap outlet protection will prevent erosion and sedimentation issues during high flow storm events, and the reconstruction of the sewer on the subject parcel will replace an older dilapidated system, possibly preventing a leakage issue in the future that could impact the adjacent wetland resource.

4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.

The areas within the 100' City of Portsmouth Wetland Buffer that are proposed to be impacted would be characterized as existing landscaped area, maintained lawn, and paved roadway; all are previously disturbed.

5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this Section.

The project represents the alternative with the least adverse impact to areas and environments while allowing reasonable use of the property. Actually, Potential Impacts will be avoided by this work.

6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.

The areas within the vegetated buffer strip that will be impacted by this project will be returned to the preexisting surface condition; absent a small pump house building. The applicant wishes to re-use the structure as a tool shed, and will relocate the structure away from the resource.

Please contact me if you have any questions or concerns regarding this application.

Respectfully submitted,

John Chagnon

John R. Chagnon Project Engineer Ambit Engineering, Inc.

Cc: Kelly Ann Vick, Property Owner Greg Bauer, Bauer Construction

23 July, 2021

To Whom It May Concern

RE: Permit Applications for maintenance and site improvements for Kelly Property Trust AB, Oriental Gardens Mobile Home Park, Off Woodbury Avenue, Portsmouth, NH.

This letter is to inform the City of Portsmouth and other Agencies with Jurisdiction that Ambit Engineering and their representatives are authorized to represent the Kelly Property Trust as our agents in the approval process. This includes signatory powers on application forms.

Please feel free to call me if there is any question regarding this authorization. Sincerely,

Hellyoun Celick

Kelly Property Trust AB Kelly Ann Vick, Trustee PO Box 342 Rye Beach, NH 03871 214-537-3759



PUBLIC WORKS DEPARTMENT

CITY OF PORTSMOUTH 680 Peverly Hill Road Portsmouth N.H. 03801 (603) 427-1530 FAX (603) 427-1539

March 15, 2017

John Chagnon, PE Ambit Engineering 200 Griffin Road, Unit 3 Portsmouth, NH 03801

Dear Mr. Chagnon,

The Department is in receipt of your letter of March 9, 2017 in regards to the Oriental Gardens site. We have reviewed the issue on site with you last fall and we concur that this swale maintenance is appropriate. You have the Department's approval to move forward on the swale dredging as outlined in your letter and on the attached plan of the same date.

Regarding the proposed rip rap apron, please consider whether creating a rip rapped plunge pool would be more appropriate for this location. This would give any sediment a place to settle out adjacent to the culvert instead of being transported down the swale and deposited elsewhere.

Please let us know if you need additional information.

Sincerely,

Peter H. Rice, PE Director of Public Works

CC: Peter Britz, Environmental Planner File



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS 200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

9 March, 2017

Peter Rice, PE, Director City of Portsmouth Department of Public Works 680 Peverly Hill Road Portsmouth, NH 03801

RE: Drainage Maintenance Plan, Oriental Gardens Mobile Home Park, Woodbury Avenue

Dear Mr. Rice:

This letter transmits, on behalf of Oriental Gardens MHP, LLC, (Oriental Gardens) the accompanying Project Narrative and Drainage Maintenance Plans for your review and consent. The proposed project at the above referenced address consists of the removal of vegetation from the vicinity of the culvert outlet and the downstream drainage swale. We spoke with Dave Desfosses and Peter Britz about the project last November, and our intention was to submit the work under the NHDES Culvert Maintenance program, which requires that the work is performed for the maintenance of <u>public</u> drainage works. This pipe drains surface water runoff from Woodbury Avenue, a public street. The outfall is on property of Oriental Gardens and upstream piping crosses an adjacent property which is currently the Starbucks (formerly Pizza Hut) site, all outside of the city Woodbury Avenue right of way. Although there are numerous easements for public infrastructure on the Oriental Gardens property we did not find any recorded easement in regards to this drain and the associated flow. In light of this we want to be sure that the work meets the City's concurrence, so we are sending the plans to your office in advance of submission for approval.

The project permit application includes the removal of sediment from the outlet of the existing 48" culvert draining Woodbury Avenue. The owner proposes to install a stone rip rap apron at the outlet location to prevent erosion of the swale. We reviewed the project with Collis Adams of the NHDES Wetlands Bureau and he informed us that the removal of vegetation and sediment are considered maintenance and do not require any State level permitting. However, the construction of the stone rip rap apron will require a State Wetland Permit. We will file the application as soon as we receive concurrence from the City that we can proceed with the project, which is hereby requested.

Please do not hesitate to contact me with any questions or concerns.

Sincerely,

John Chagnon, PE Ambit Engineering, Inc.

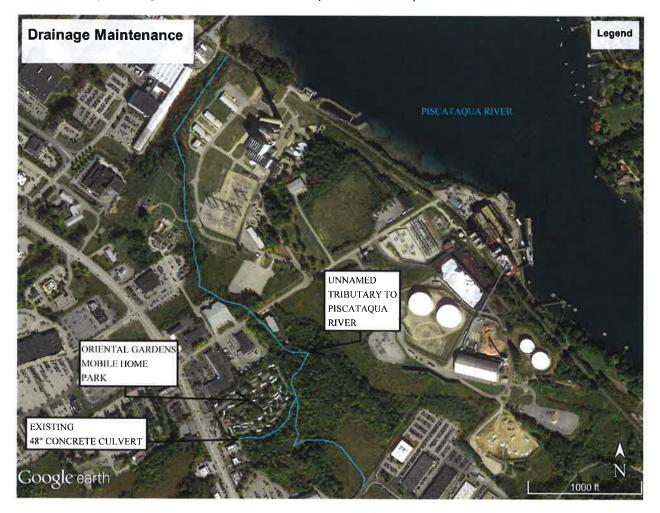
Enclosures

CC Via email: Oriental Gardens MHP, LLC (Kellyann Vick), Greg Bauer, File

Oriental Gardens Culvert Maintenance Narrative

INTRODUCTION

Oriental Gardens is a mobile home park located on Woodbury Avenue in Portsmouth, New Hampshire. The park property receives stormwater flows from a 48" Reinforced Concrete Culvert that is owned by the City of Portsmouth. The outlet of this culvert is located at the southwest corner of the property near the main entrance to the park. Stormwater flows from this culvert are conveyed within a channelized swale located along the southern boundary of the property. This flow then exits the property to the east and ultimately discharges via an unnamed tributary to the Piscatagua River.





CITY OF PORTSMOUTH

Community Development Department (603) 610-7232

Planning Department (603) 610-7216

PLANNING BOARD

June 20, 2017

Kelly Ann Vick, Trustee Kelly Property Trust AB P. O. Box 342 Rye Beach, NH 03871

RE: Conditional Use Permit Application for Property Located off Woodbury Avenue (Oriental Gardens)

Dear Ms. Vick:

The Planning Board, at its regularly scheduled meeting of June 15, 2017, considered your application for a Conditional Use Permit under Section 10.1017 of the Zoning Ordinance for work within the inland wetland buffer consisting of installation of rip rap outlet protection associated with an existing 48" RCP culvert and sewer improvements including removing an existing inoperative pump station, subsurface piping and reconstruction of the sewer system to operate by gravity, with $3,318 \pm s.f.$ of impact to the wetland buffer. As a result of said consideration, the Board voted to grant Conditional Use Permit approval with the following stipulations:

- 1) The applicant revise the plan to show the updated limits of construction.
- 2) The applicant add a note to the plan to restore the site with a conservation seed mix where disturbance occurs.
- 3) Remove the note from the plan calling for trimming and pruning vegetation.
- 4) The applicant shall provide a revised plan showing the correct limit of construction.²
- 5) The inlet and outlet dimensions on Sheet P2 shall be corrected.

Article 10, Section 10.1017.70 of the Zoning Ordinance provides that a Conditional Use Permit shall expire one year after the date of approval by the Planning Board unless a building permit is issued prior to that date. The Planning Board may grant a one year extension of a Conditional Use Permit if the applicant submits a written request to the Planning Board prior to the expiration date. Any other extension may be granted only after a new public hearing on the reconsideration of the application.

Page two. RE: Oriental Gardens, Woodbury Avenue June 20, 2017

Please note that the building/construction plans must be reviewed and approved by the Inspection Department prior to a Building Permit being issued.

The City's Land Use Compliance Agent, Vincent Hayes, will be inspecting the work during construction.

The minutes and audio recording of this meeting are available through the Planning Department.

Very truly yours,

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Juliet T.H. Walker, Planning Director for Dexter Legg, Chairman of the Planning Board JTHW:jms

cc: Robert Marsilia, Building Inspector Rosann Maurice-Lentz, City Assessor Steven Riker, NHCWS, Ambit Engineering



The State of New Hampshire Department of Environmental Services





June 9, 2017

KELLY PROPERTY TRUST AB C/O KELLY ANN VICK PO BOX 342 RYE BEACH NH 03871

RE: NHDES Wetlands File #2017-01336, Oriental Gardens Mobile Home Park, Portsmouth Tax Map/Lot # 215/9

Dear Ms. Vick:

Attached please find Wetlands Permit # 2017-01336 to dredge and fill 139 square feet of palustrine scrub-shrub wetland for drainage improvements including installation of rip-rap outlet protection for an existing 48 inch RCP culvert. Waive Env-Wt 304.04(a) regarding 20 foot setback from property lines.

The decision to approve this application was based on the following findings:

1. This is a minimum impact project per Administrative Rule Env-Wt 303.04(f), alteration of less than 3,000 square feet of swamps or wet meadows.

2. The need for the proposed impacts has been demonstrated by the applicant per Env-Wt 302.01. The applicant has demonstrated that the wetland impact is necessary to minimize erosion for an outlet to an existing 48 inch RCP culvert.

3. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per Env-Wt 302.03. The project proposes a minimal amount of rip-rap outlet protection to protect existing infrastructure.

4. The applicant has demonstrated by plan and example that each factor listed in Env-Wt 302.04(b) Requirements for Application Evaluation, has been considered in the design of the project.

5. On May 30, 2017, NHDES received the applicant's request for a Waiver, pursuant to the requirements of Env-Wt 204, to waive the requirements of Env-Wt 304.04, relative to work within the 20 foot abutter setback, after being unable to obtain written permission from the abutter.

6. Pursuant to the requirements of Env-Wt 204.04(a)(1)a., NHDES finds that granting the Waiver will not result in an adverse effect to the environment or natural resources of the state, public health, or public safety. The proposal is maintenance of an existing drainage outlet to minimize erosion.

7. Pursuant to the requirements of Env-Wt 204.04(a)(1)b., NHDES finds that granting the waiver will not result in a more significant impact on abutters than compliance with the rule. The proposal will stabilize a culvert outlet and will not redirect existing drainage patterns.

8. Pursuant to the requirements of Env-Wt 204.04(a)(2), NHDES finds that condition Env-Wt 204.04(a)(2)b., necessary to granting the Waiver, has been met. NHDES finds that strict adherence to the rule being waived would result in preventing the applicant from maintaining an existing outlet structure.

9. Based on findings 5-8 above, NHDES grants the applicant a Waiver to rule Env-Wt 304.04.

10. The NH Natural Heritage has no record of sensitive species within the project vicinity.

11. The Portsmouth Conservation Commission signed the NHDES application waiving its right to intervene, believes that the application and submitted plans accurately represent the proposed project, and has no objection to permitting

www.des.nh.gov 29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095 (603) 271-3503 • TDD Access: Relay NH 1-800-735-2964 the proposed work.

Any person aggrieved by this decision may appeal to the New Hampshire Wetlands Council (the Council) by filing an appeal that meets the requirements specified in RSA 482-A:10, RSA 21-O:14, and the rules adopted by the Council, Env-WtC 100-200. The appeal must be filed **directly with the Council within 30 days** of the date of this decision and must set forth fully **every ground** upon which it is claimed that the decision complained of is unlawful or unreasonable. Only those grounds set forth in the notice of appeal can be considered by the Council.

Information about the Council, including a link to the Council's rules, is available at <<u>http://nhec.nh.gov/></u> (or more directly at <<u>http://nhec.nh.gov/wetlands/index.htm></u>.) Copies of the rules also are available from the New Hampshire Department of Environmental Services (NHDES) Public Information Center at (603) 271-2975.

Your permit must be signed, and a copy must be posted in a prominent location on site during construction.

If you have any questions, please contact our office at (603) 271-2147.

Sincerely,

Donis Price

David Price East Region Inspector NHDES Land Resources Management

cc: Portsmouth Conservation Commission Portsmouth Municipal Clerk Ambit Engineering, Inc.



The State of New Hampshire Department of Environmental Services



Clark B. Freise, Assistant Commissioner

WETLANDS AND NON-SITE SPECIFIC PERMIT 2017-01336

Permittee:	KELLY PROPERT	Y TRUST AB	NOTE CO	NDITIONS		
	C/O KELLY ANN VICK					
	PO BOX 342	•				
	RYE BEACH NH (3871				
Project Location:	WOODBURY AV	E, PORTSMOUTH	ł			
	TAX MAP/LOT N	IO: 215 / 9				
Waterbody:						
APPROVAL DATE:	JUNE 09, 2017	EXPIRATIO	V DATE:	JUNE 09, 2022		
						;================

Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued. This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Dredge and fill 139 square feet of palustrine scrub-shrub wetland for drainage improvements including installation of rip-rap outlet protection for an existing 48 inch RCP culvert. Waive Env-Wt 304.04(a) regarding 20 foot setback from property lines.

THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

1. All work shall be in accordance with plans by Ambit Engineering, Inc. dated January 2017, and revised through March 31, 2017, as received by the NH Department of Environmental Services (NHDES) on May 11, 2017.

2. Appropriate turbidity controls shall be installed prior to construction, shall be maintained during construction such that no turbidity escapes the immediate dredge area, and shall remain until suspended particles have settled and the water at the work site has returned to normal clarity.

3. Construction equipment shall not be located within surface waters.

4. Dredged materials, whether to be stockpiled or disposed of, shall be dewatered in sedimentation basins lined with siltation and erosion controls, and located outside of areas subject to RSA 482-A jurisdiction.

5. Discharge from dewatering of work areas shall be to sediment basins that are: a) located in uplands; b) lined with hay bales or other acceptable sediment trapping liners; c) set back as far as possible from wetlands and surface waters, with a preferred undisturbed vegetated buffer of at least 50 feet and a minimum undisturbed vegetative buffer of 20 feet. 6. Any temporary work areas shall be restored to original condition upon completion of work.

Any temporary work areas shall be restored to original condition upon completion of work.
Any further alteration of areas on these properties that are within the jurisdiction of the NHDES Wetlag

7. Any further alteration of areas on these properties that are within the jurisdiction of the NHDES Wetlands Bureau will require a new application and further permitting by the Bureau.

Appropriate siltation/erosion/turbidity controls shall be in place prior to construction, shall be maintained during construction, and remain in place until the area is stabilized. Silt fence(s) must be removed once the area is stabilized.
Within three days of final grading or temporary suspension of work, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.

10. The contractor responsible for completion of the work shall utilize techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).

11. Construction equipment shall be inspected daily for leaking fuel, oil and hydraulic fluid prior to entering surface

www.des.nh.gov 29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095 (603) 271-3503 • TDD Access: Relay NH 1-800-735-2964 File Number:2017-01336 June 9, 2017 Page **2** of **2**

waters or wetlands.

12. Faulty equipment shall be repaired prior to entering jurisdictional areas.

13. The contractor shall have appropriate oil spill kits on site and readily accessible at all times during construction and each operator shall be trained in its use.

14. All refueling of equipment shall occur outside of surface waters or wetlands.

GENERAL CONDITIONS THAT APPLY TO ALL NHDES WETLANDS PERMITS:

- 1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
- 2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
- 3. The Wetlands Bureau shall be notified upon completion of work;
- 4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.);
- 5. Transfer of this permit to a new owner shall require notification to and approval by NHDES;
- 6. This project has been screened for potential impacts to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have only received cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.
- 7. Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.

David Price

APPROVED:

David Price NHDES Wetlands Bureau

BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

OWNER'S SIGNATURE (required)

CONTRACTOR'S SIGNATURE (required)

Wetlands Application Oriental Gardens Mobile Home Park, LLC Site Improvements

SITE PHOTOGRAPHS

Portsmouth, NH



Site Photograph #2

March 2017

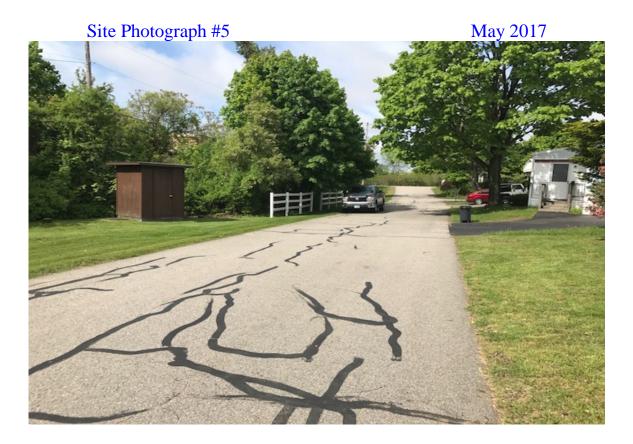




Site Photograph #4

May 2017





PROJECT PERMITS: NHDES WETLANDS: 2017-01336 CITY OF PORTSMOUTH CUP: PENDING CITY OF PORTSMOUTH SEWER CONNECTION: PENDING

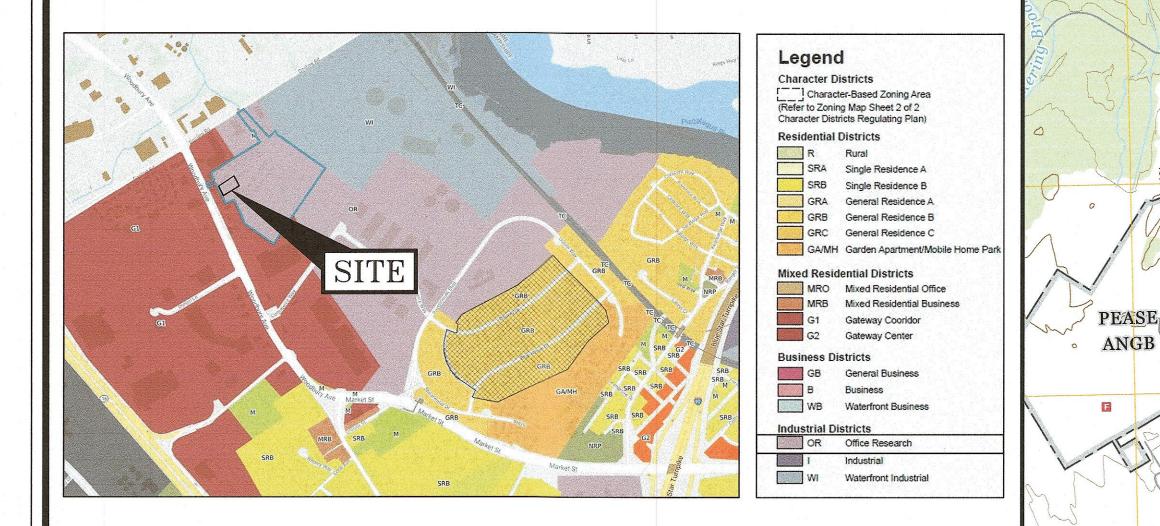
PROPOSED SEWER IMPROVEMENTS & DRAINAGE MAINTENANCE ORIENTAL GARDENS HOME PARK WOODBURY AVENUE PORTSMOUTH, NEW HAMPSHIRE PLANS

OWNER:

KELLY PROPERTY TRUST PO BOX 342 RYE BEACH, NH 03871 TEL. (603) 868-5995

CIVIL ENGINEER & LAND SURVEYOR:

AMBIT ENGINEERING, INC. 200 GRIFFIN ROAD, UNIT 3 PORTSMOUTH, N.H. 03801 Tel. (603) 430–9282 Fax (603) 436-2315



INDEX OF SHEETS

C1	EXISTING CONDITIONS PLAN
C2	SEWER IMPROVEMENT PLAN
C3	DRAINAGE MAINTENANCE PLAN
C4	CUP/DES PERMIT PLAN
D1-D2	DETAILS

DATE

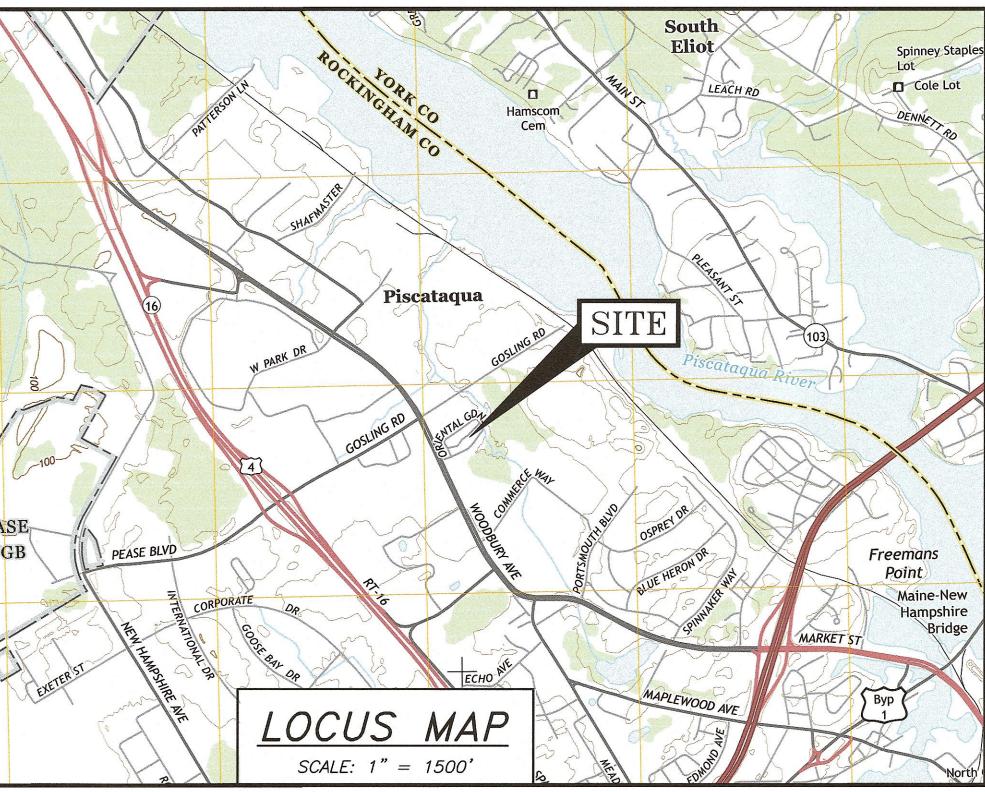
PORTSMOUTH APPROVAL CONDITIONS NOTE: ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

CHAIRMAN

APPROVED BY THE PORTSMOUTH PLANNING BOARD

ELECTRIC: EVERSOURCE

ATTN: JIM TOW





UTILITY CONTACTS

1700 LAFAYETTE ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 436-7708, Ext. 555.5678 ATTN: MICHAEL BUSBY, P.E. (MANAGER) MICHAEL.BUSBY@NU.COM

SEWER & WATER: PORTSMOUTH DEPARTMENT OF PUBLIC WORKS 680 PEVERLY HILL ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 427-1530

NATURAL GAS: UNITIL 325 WEST ROAD PORTSMOUTH, N.H. 03801 Tel. (603) 294-5144 ATTN: DAVE BEAULIEU

COMMUNICATIONS: CONSOLIDATED COMMUNICATIONS JOE CONSIDINE 1575 GREENLAND ROAD GREENLAND, N.H. 03840 Tel. (603) 427-5525

CABLE: COMCAST 155 COMMERCE WAY PORTSMOUTH, N.H. 03801 Tel. (603) 679-5695 (X1037) ATTN: MIKE COLLINS

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PROPERTY LINE SETBACK SEWER PIPE SEWER LATERA GAS LINE STORM DRAIN WATER LINE WATER SERVICE UNDERGROUND ELECTRIC OVERHEAD ELECTRIC/WIRES FOUNDATION DRAIN EDGE OF PAVEMENT (EP) CONTOUR SPOT ELEVATION UTILITY POLE

WALL MOUNTED EXTERIOR LIGHTS

TRANSFORMER ON CONCRETE PAD ELECTRIC HANDHOLD

SHUT OFFS (WATER/GAS)

GATE VALVE

HYDRANT

CATCH BASIN

SEWER MANHOLE

DRAIN MANHOLE

TELEPHONE MANHOLE

PARKING SPACE COUNT

PARKING METER LANDSCAPED AREA

TO BE DETERMINED CAST IRON PIPE COPPER PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE ASBESTOS CEMENT PIPE VITRIFIED CLAY PIPE EDGE OF PAVEMENT ELEVATION FINISHED FLOOR INVERT SLOPE FT/FT TEMPORARY BENCH MARK TYPICAL

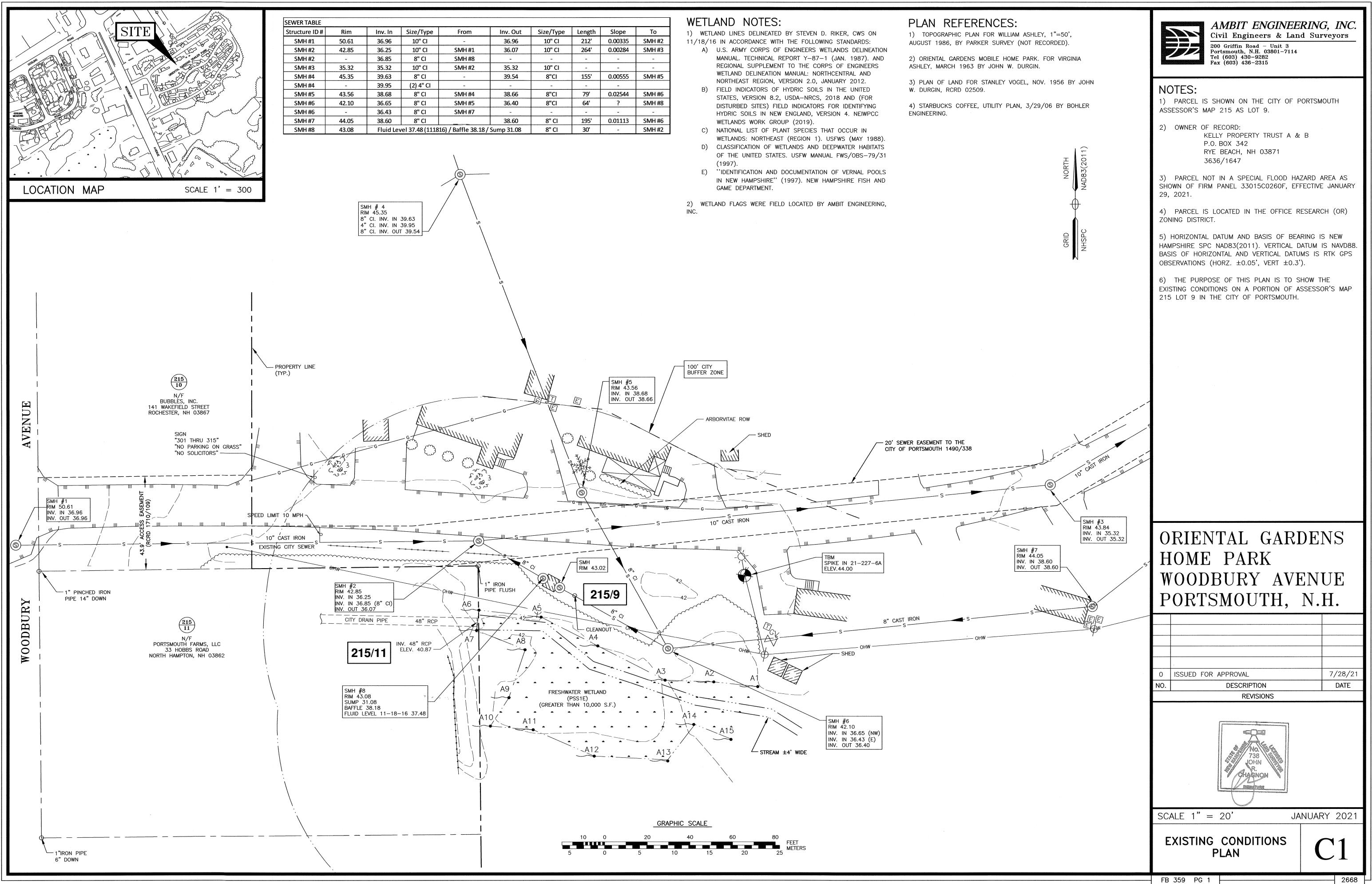
PROPOSED SEWER IMPROVEMENTS & DRAINAGE MAINTENANCE **ORIENTAL GARDENS HOME PARK** WOODBURY AVENUE PORTSMOUTH, N.H.



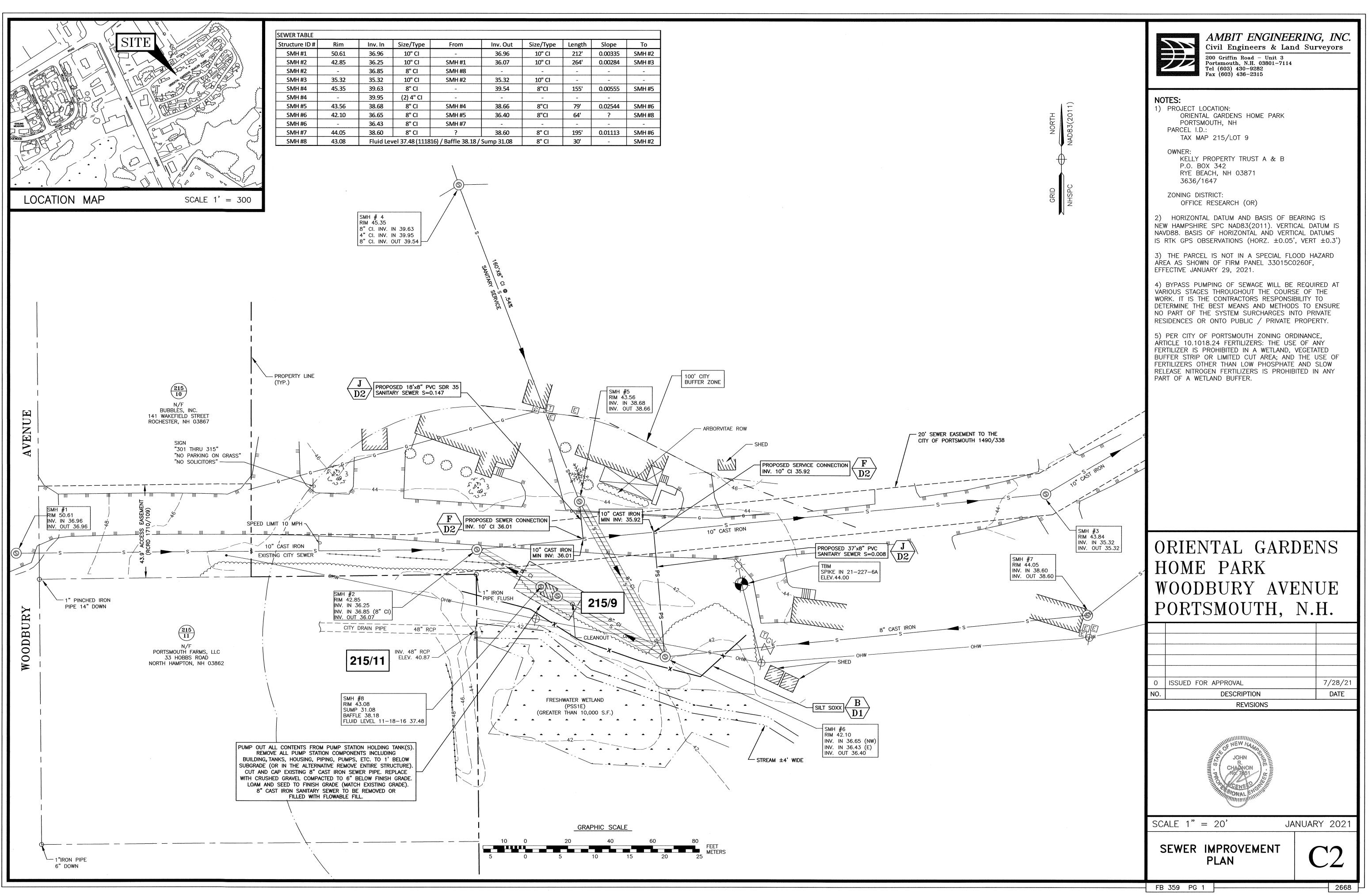
AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors 200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

PLAN SET SUBMITTAL DATE: 28 JULY 2021

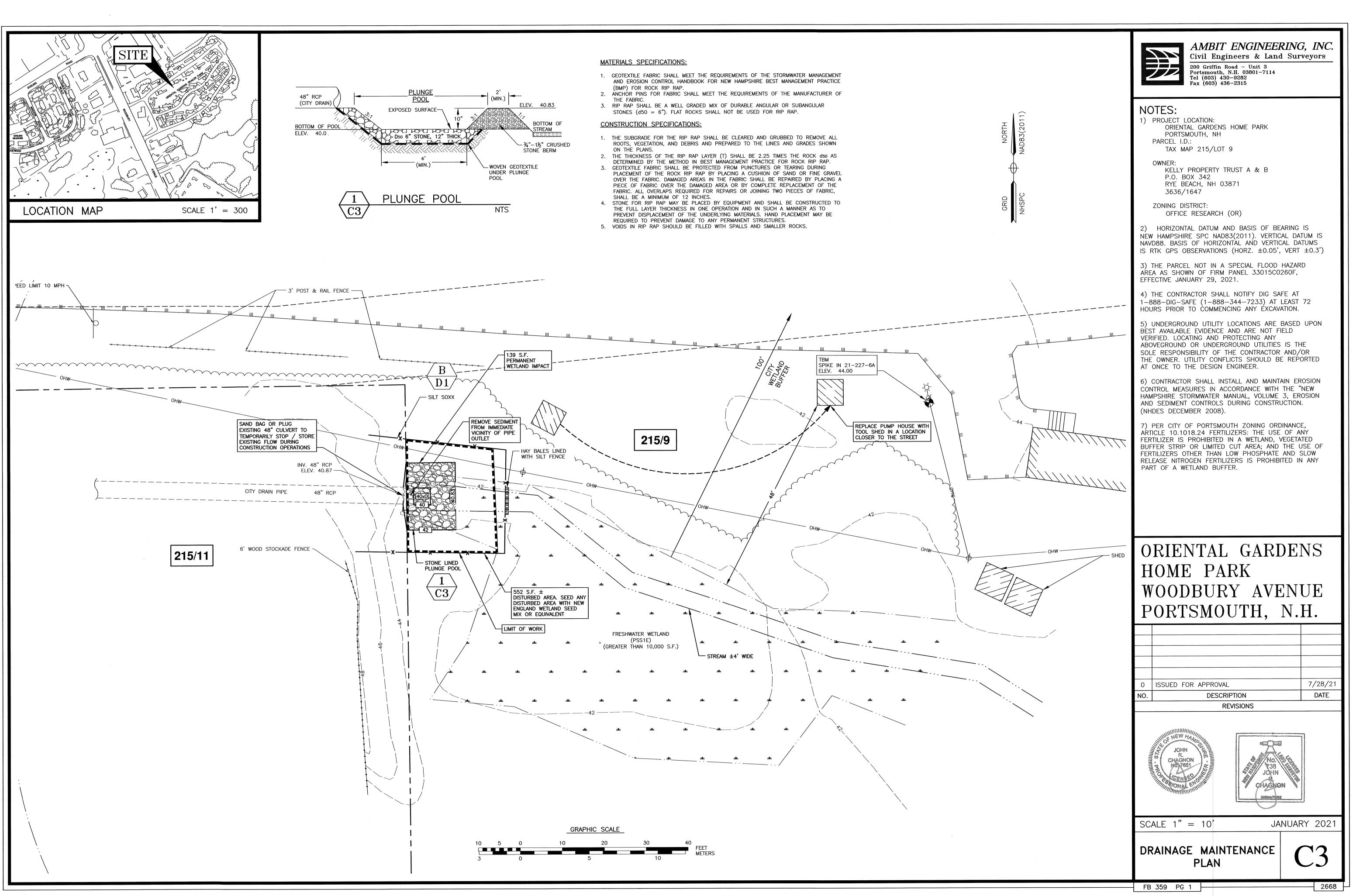


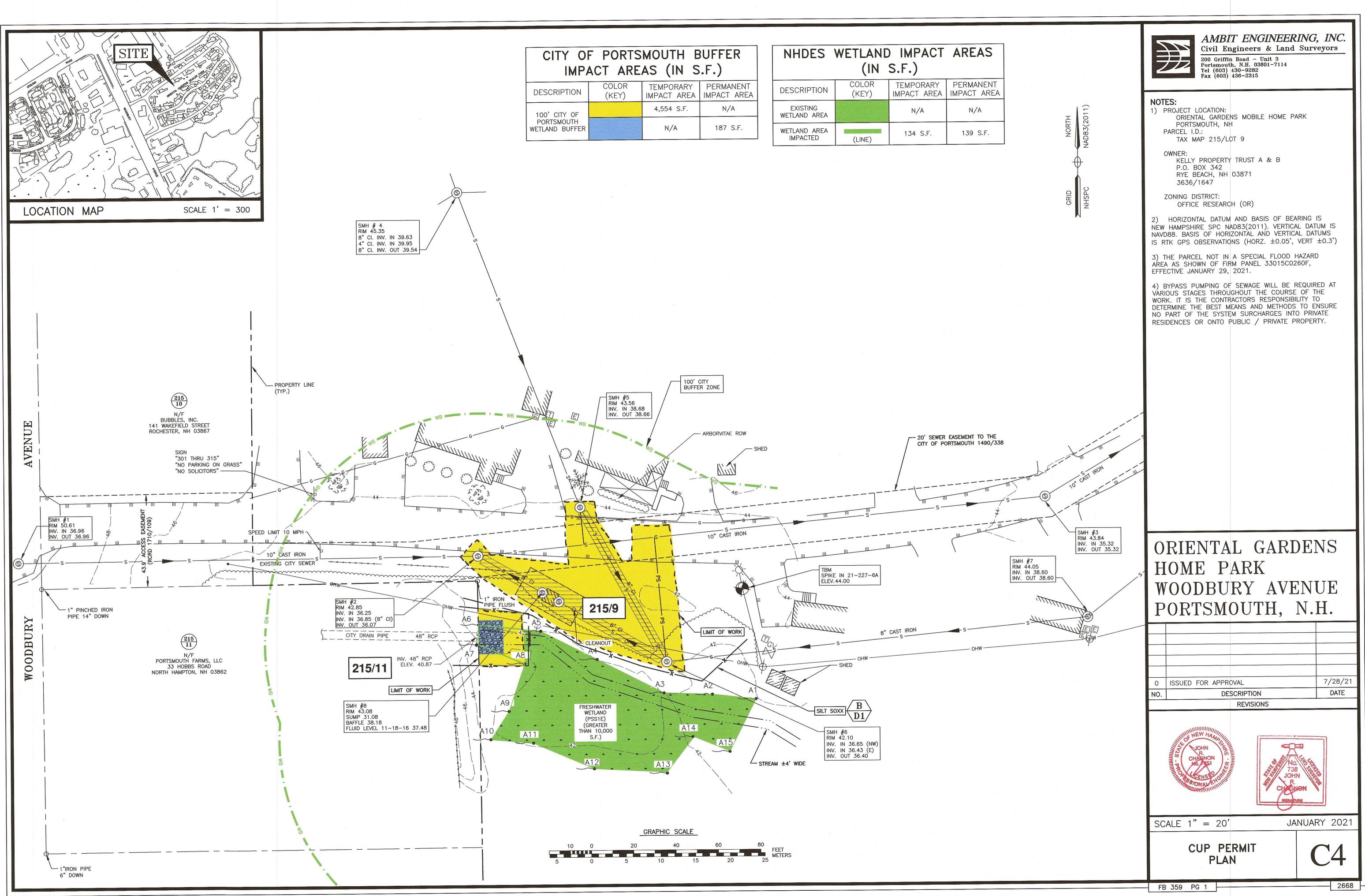


	Inv. Out	Size/Type	Length	Slope	То
	36.96	10" CI	212'	0.00335	SMH #2
	36.07	10" CI	264'	0.00284	SMH #3
	-	-	-	-	-
	35.32	10" Cl	-	-	I.
	39.54	8"CI	155'	0.00555	SMH #5
	-	-	-	-	
	38.66	8"CI	79'	0.02544	SMH #6
	36.40	8"CI	64'	?	SMH #8
	-	-	-	-	-
	38.60	8" CI	195'	0.01113	SMH #6
8/	Sump 31.08	8" CI	30'	-	SMH #2



Inv. Out	Size/Type	Length	Slope	То
36.96	10" CI	212'	0.00335	SMH #2
36.07	10" CI	264'	0.00284	SMH #3
	-	-	-	-
35.32	10" Cl	-	-	-
39.54	8"CI	155'	0.00555	SMH #5
_	_	-	-	
38.66	8"CI	79'	0.02544	SMH #6
36.40	8"CI	64'	?	SMH #8
-	-	-	-	-
38.60	8" CI	195'	0.01113	SMH #6
5ump 31.08	8" CI	30'	-	SMH #2





CITY OF PORTSMOUTH BUFFER IMPACT AREAS (IN S.F.)				
DESCRIPTION	COLOR (KEY)	TEMPORARY IMPACT AREA	PERMANENT IMPACT AREA	
100' CITY OF		4,554 S.F.	N/A	
PORTSMOUTH WETLAND BUFFER		N/A	187 S.F.	

NHDES		IMPACT S.F.)	AREAS
DESCRIPTION	COLOR (KEY)	TEMPORARY IMPACT AREA	PERMANENT IMPACT AREA
EXISTING WETLAND AREA		N/A	N/A
WETLAND AREA	(LINE)	134 S.F.	139 S.F.

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

INSTALL DEVICES TO CONTROL EROSION AND SEDIMENTATION PRIOR TO ANY EARTH MOVING ACTIVITIES

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/FODS AS NEEDED.

CUT AND REMOVE ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND OTHER DEBRIS AND RUBBISH AS REQUIRED.

STRIP AND STOCKPILE LOAM FROM SITE. STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE TO CONTROL SEDIMENT RUN OFF.

PERFORM DRAINAGE IMPROVEMENT WORK AND CONSTRUCT NEW SEWER, PUMP EXISTING SEWER FLOWS AS NEEDED.

CUT AND CAP (OR PLUG WITH FLOWABLE FILL) ALL ABANDONED SEWER LINES. REMOVE PUMP STATION HOUSING. FILL TANK WITH GRAVEL (OR REMOVE).

LOAM AND SEED DISTURBED AREAS IN ACCORDANCE WITH VEGETATIVE PRACTICE AND GENERAL CONSTRUCTION NOTES. CUT AND FILL SLOPES SHALL BE SEEDED IMMEDIATELY AFTER THEIR CONSTRUCTION

CONSTRUCT PAVEMENT REPAIRS.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

ALL BASINS AND SWALES SHALL BE INSTALLED PRIOR TO ROUGH GRADING THE SITE. ALL DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT. AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER. EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: • BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;

• A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; • A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS

BEEN INSTALLED; OR, • EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION. APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM OF 0.5" OR GREATER. ALL DAMAGED SILT SOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. CONSTRUCT SILT SOXX AROUND TOPSOIL STOCKPILE.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION. SLIPPAGE. SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS

ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DISTURBED AREAS SHALL BE SEEDED WITHIN 72 HOURS FOLLOWING FINISHED GRADING

AT NO TIME SHALL ANY DISTURBED AREA REMAIN UNSTABILIZED FOR LONGER THAN 72 HOURS, ALL AREAS WHERE CONSTRUCTION IS NOT COMPLETE WITHIN THIRTY DAYS OF THE INITIAL DISTURBANCE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

FOR SOIL AMENDMENTS PRIOR TO PLANTING USE ONLY LOW PHOSPHATE AND SLOW RELEASE NITROGEN FERTILIZERS.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	PROPORTI	<u>ON</u> <u>SEED</u>	ING RATE			
CREEPING RED FESCUE KENTUCKY BLUEGRASS	50% 50%	100 LB	S/ACRE			
SLOPE SEED (USED ON	ALL SLOPES	GREATER T	HAN OR	EQUAL	то	3:1
CREEPING RED FESCUE TALL FESCUE BIRDSFOOT TREFOIL	42% 42% 16%	48 LB	8S/ACRE			

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES: PERENNIAL RYE: 0.7 LBS/1,000 S.F. MULCH: 1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT

SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

THE SILT SOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SILT SOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT SOXX REMOVAL SHALL BE PERMANENTLY SEEDED.

WINTER NOTES

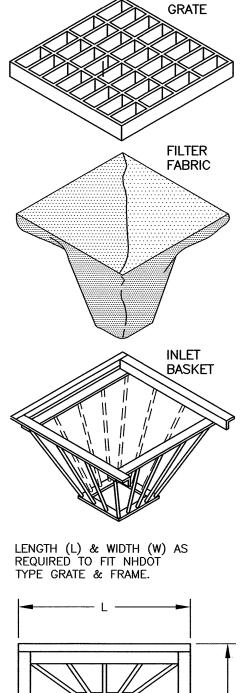
ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH. OR WHICH ARE DISTURBED AFTER OCTOBER 15TH. SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

LAWN MAINTENANCE

COMPLETE A SOIL TEST FOR THE TOPSOIL TO BE USED ON THE GRASSED LAWN. USE UNH COOPERATIVE EXTENSION OR OTHER LABORATORY SPECIALIZING IN SOIL TESTS FOR LANDSCAPING. HTTPS://EXTENSION.UNH.EDU/PROGRAMS/SOILTESTING-SERVICES. FERTILIZERS SHOULD CONTAIN NO PHOSPHORUS UNLESS INDICATED BY SOIL TEST RESULTS. ADD LIME ONLY IF NEED INDICATED BY SOIL TEST RESULTS. IF NITROGEN FERTILIZATION INDICATED BY THE SOIL TEST, USE A FORMULATION WITH 50% SLOW-RELEASE NITROGEN TO REDUCE LEACHING OF NITROGEN INTO GROUNDWATER. USE ½ THE INDICATED AMOUNT OF NITROGEN FERTILIZER. REAPPLY AT THE REDUCED RATE ONLY WHEN LAWN RESPONSE STARTS TO FALL BELOW ACCEPTABILITY. FERTILIZER SHALL NOT BE APPLIED BETWEEN OCTOBER 1 AND APRIL 1.



1) INLET BASKETS SHALL BE INSTALLED IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION IS COMPLETE AND SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PAVEMENT BINDER COURSE S COMPLETE.

2) FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND, SHALL EXTEND AT LEAST 6" PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR

3) THE FILTER FABRIC SHALL BE A GEOTEXTILE ABRIC: POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS: -RAB STRENGTH: 45 LB. MIN. IN ANY

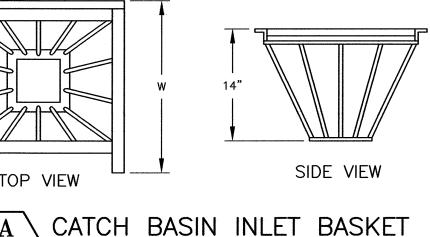
> PRINCIPAL DIRECTION (ASTM D1682) -MULLEN BURST STRENGTH: MIN. 60 psi (ASTM D774)

4) THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND A MINIMUM PERMEABILITY OF 120 gpm/s.f. (MULTIPLY THE PERMITTIVITY IN SEC.-1 FROM ASTM 54491-85 CONSTANT HEAD TEST USING THE CONVERSION FACTOR OF 74.)

THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.

6) SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.

NTS



(IF NEEDED)

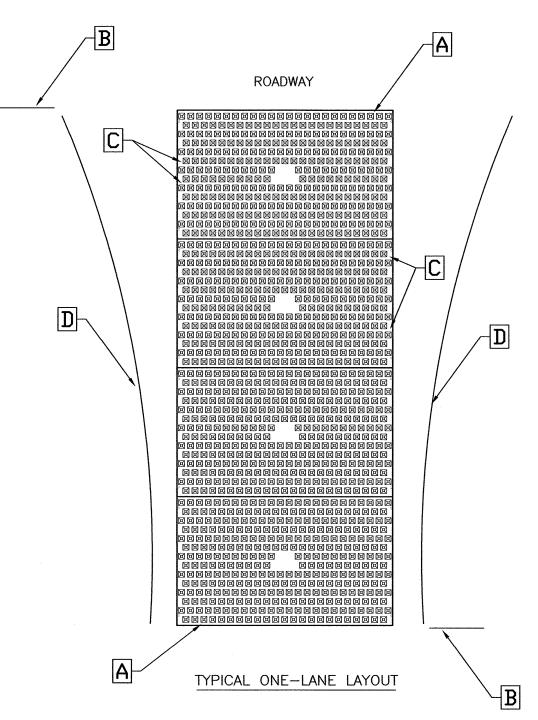
FODS TRACKOUT CONTROL SYSTEM

INSTALLATION:

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

- A. FODS TRACKOUT CONTROL SYSTEM MAT. B. FODS SAFETY SIGN. ANCHOR POINT
- D. SILT OR ORANGE CONSTRUCTION FENCE.



AREA TO BE PROTECTED -2" x 2" HARDWOOD FILTREXX® STAKES SPACED 10' COMPOST APART LINEALLY SILTSOXX™ WATER FLOW WORK AREA -<u>PLAN</u> ── FILTREXX® SILTSOXX[™] <u>Work</u> <u>Area</u> (8" to 24" TYP.) **ŠIZE PER INSTALLERS** RECOMMENDATION WATER FLOW Caractering of the local division of the 12" MIN - 2" x2" HARDWOOD STAKE **ELEVATION**

- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. FILLTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED
- FILTREXX INSTALLER. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION
- SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
- 4. SILTSOXX AS DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.

B

C3

THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

FILTREXX® SILTSOXX[™]

FILTRATION SYSTEM

NTS

THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.

CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811. 3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS. OR SUDDEN ABRUPT CHANGES IN ELEVATION. 4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED

NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE

8. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION. AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT. 10. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.

11. NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER. 12. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM. THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS 13. SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING

THE ABOVE STEPS.

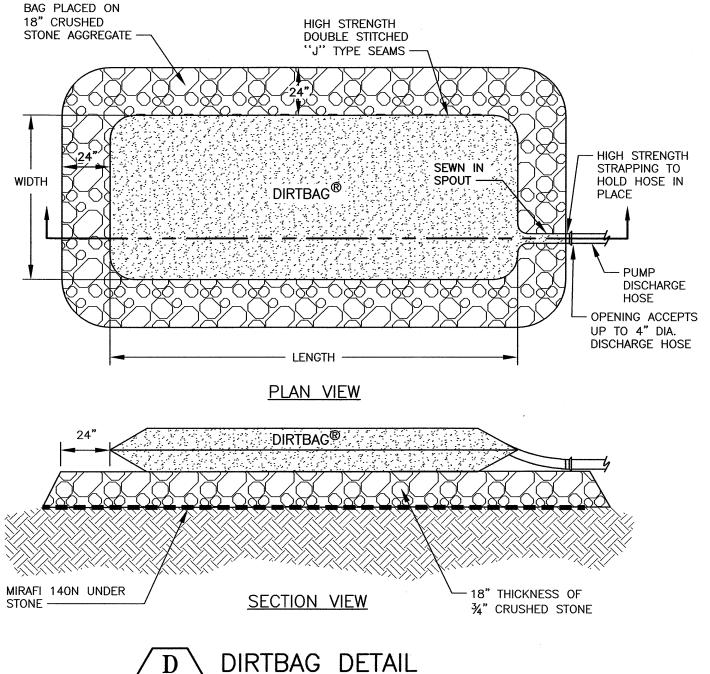
USE AND MAINTENANCE

VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW -TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY. 4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP

REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST. THE ANCHORS SHOULD BE REMOVED.

4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL 5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.





AS NEEDED FOR

TRENCH DE-WATERING



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430–9282 Fax (603) 436-2315

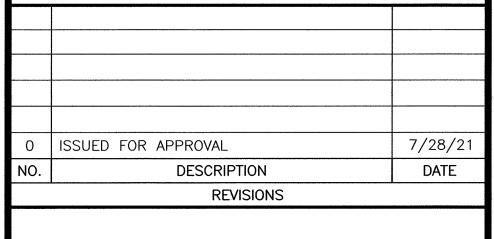
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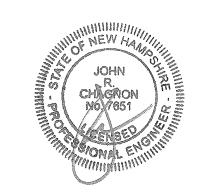
1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

ORIENTAL GARDENS HOME PARK WOODBURY AVENUE PORTSMOUTH, N.H.



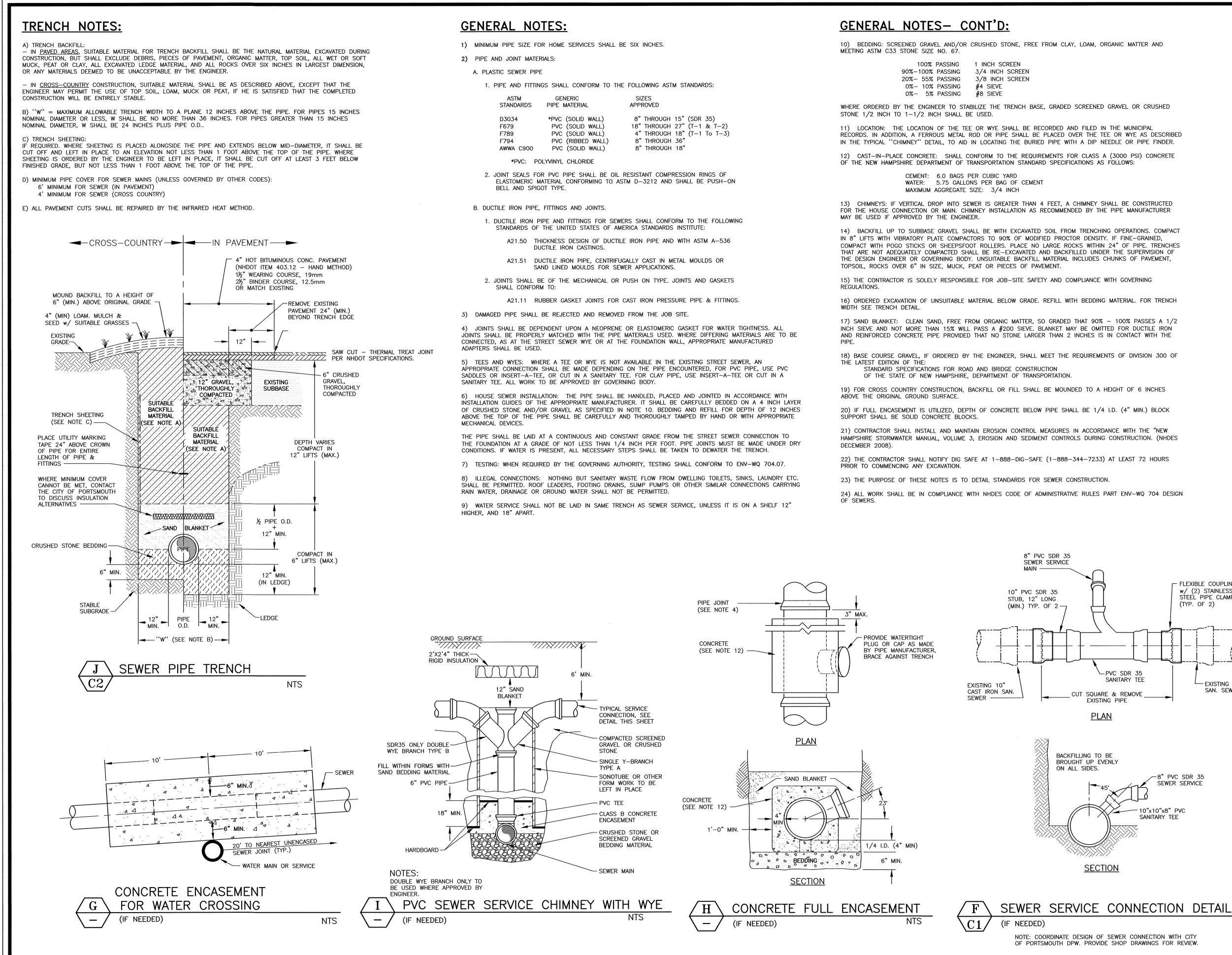


SCALE AS NOTES

EROSION CONTROL NOTES AND DETAILS

NTS

JANUARY 2021



1		ALLINOVED
	*PVC (SOLID WALL) PVC (SOLID WALL) PVC (SOLID WALL) PVC (RIBBED WALL) PVC (SOLID WALL)	8" THROUGH 15" (SDR 35) 18" THROUGH 27" (T–1 & T–2) 4" THROUGH 18" (T–1 To T–3) 8" THROUGH 36" 8" THROUGH 18"

10) BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND

8	PASSING	1 INCH SCREEN
76	PASSING	3/4 INCH SCREEN
76	PASSING	3/8 INCH SCREEN
%	PASSING	#4 SIEVE
%	PASSING	#8 SIEVE

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED

11) LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPE FINDER. 12) CAST-IN-PLACE CONCRETE: SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE

OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:

13) CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE HOUSE CONNECTION OR MAIN. CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER

14) BACKFILL UP TO SUBBASE GRAVEL SHALL BE WITH EXCAVATED SOIL FROM TRENCHING OPERATIONS. COMPACT IN 8" LIFTS WITH VIBRATORY PLATE COMPACTORS TO 90% OF MODIFIED PROCTOR DENSITY. IF FINE-GRAINED, COMPACT WITH POGO STICKS OR SHEEPSFOOT ROLLERS. PLACE NO LARGE ROCKS WITHIN 24" OF PIPE. TRENCHES THAT ARE NOT ADEQUATELY COMPACTED SHALL BE RE-EXCAVATED AND BACKFILLED UNDER THE SUPERVISION OF THE DESIGN ENGINEER OR GOVERNING BODY. UNSUITABLE BACKFILL MATERIAL INCLUDES CHUNKS OF PAVEMENT,

16) ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE, REFILL WITH BEDDING MATERIAL, FOR TRENCH

17) SAND BLANKET: CLEAN SAND, FREE FROM ORGANIC MATTER, SO GRADED THAT 90% - 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. BLANKET MAY BE OMITTED FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE

FLEXIBLE COUPLING

(TYP. OF 2)

-8" PVC SDR 35

SEWER SERVICE

10"x10"x8" PVC

SANITARY TEE

w/ (2) STAINLESS STEEL PIPE CLAMPS

- EXISTING 10" CI

NTS

SAN. SEWER



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES:

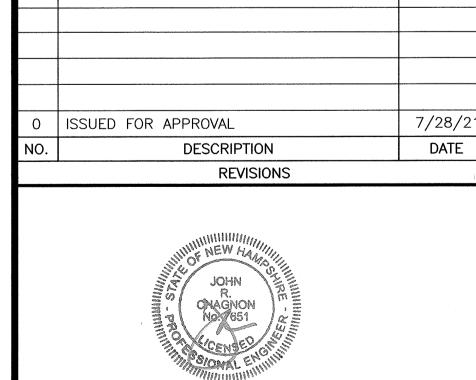
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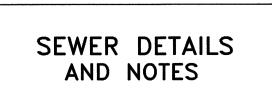
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4) CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARDS.

ORIENTAL GARDENS HOME PARK WOODBURY AVENUE PORTSMOUTH, N.H.



SCALE AS NOTES



FB 359 PG 1

JANUARY 2021

D2