

AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS

200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282

30-9282 Fax 436-2315

6 December 2018

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 164, Lots 1 & 4, Map 157, Lots 1 & 2 105 Bartlett Street Portsmouth, New Hampshire

Dear Mr. Legg:

This letter transmits a City of Portsmouth Conditional Use Permit Application request to permit a total of 54,879 square feet of disturbance within the 100' City of Portsmouth Wetland Buffer on the above referenced parcels.

The project proposes roadway improvements, utility improvements, drainage improvement & treatment including separation of stormwater from sewer, parking improvements, buffer planting areas, and removal of two dilapidated structures.

The proposed roadway improvements include re-configuration of parking, construction of parking islands, re-grading and installation of curbing to direct stormwater.

The proposed drainage improvements includes separation of stormwater from sewer, and also providing stormwater treatment, a function that does not currently exist on the subject lots.

Attached to this application please find a plan set depicting existing and proposed conditions.

The project was presented at the November 14, 2018 Conservation Commission meeting where the project team received comments and questions. In response to those comments and questions, below is an itemized list of components that have been added to the plans and/or application.

- Demolition notes have been added to the plan ensuring the demolition is in accordance with state and local regulations. It is our belief that the local Demolition Permit approval and oversight process will identify any hazardous substances or materials within the dilapidated buildings and the soils underneath these buildings. It is also our belief that the Demolition Permit process will also include proper disposal of any hazardous substances or materials off site following demolition.
- The areas in which the demolition will take place and the construction access areas associated with the demolition will be filled with appropriate clean material, leveled, loamed and seeded.
- Erosion and sediment control devices have been added to the plan set.

- Concerns regarding the "bike path" design were expressed by the Conservation Commission. Since November 14, 2018 the City has set a Public Meeting for December 19, 2018 to discuss the "north Mill Pond Trail Project".
- The applicant, Clipper Traders LLC, will develop a snow removal and snow storage plan that will reduce the amount of snow that is plowed toward, and stored directly adjacent to North Mill Pond. This plan is still under development but will become part of this application.
- A Buffer Planting Plan has been developed to provide vegetative plantings along the shoreline of North Mill Pond between the proposed sidewalk and the top of bank.

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 construct various improvements to the existing traveled way, upgrade existing utilities, separate stormwater from sewer, provide a buffer planting plan, and provide some stormwater treatment, a function that does not currently exist. Given the fact that the proposal is to improve existing structures or conditions, the land is reasonable suited to the use, activity, or alteration, as it is currently used/previously developed for uses approved by the City through the years.

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

The proposal is to improve existing structures, conditions, and demolition of dilapidated structures which exist with the wetland buffer. Due to their existing location, it is not feasible to locate the improvements outside of the wetland buffer. Attached is a Stormwater Treatment Narrative that details the proposed drainage treatment system. The proposed outfalls are designed to discharge stormwater above the Highest Observable Tide Line and not within existing saltmarsh vegetation. Each proposed outfall will have a headwall and a rip rap lined outlet that will reduce discharge velocity and prevent erosion. It is anticipated that secondary impacts to saltmarsh vegetation located below the rip rap lined outlet will be insignificant as the rip rap lined outlet is designed to protect the adjacent vegetation. It is my belief that the erosional forces within North Mill Pond that include fetch from a northerly wind, and current velocity from Hodgdon Brook is more impactful to the saltmarsh vegetation and associated bank, than the proposed stormwater outfalls. This is evidenced by the existing erosion that exists along the southerly bank of North Mill Pond.

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 proposed improvements will improve the wetland functional values as stormwater will be separated from sewer, and the stormwater will receive some treatment under proposed conditions. The project will also result in a small reduction in impervious surface on the site, includes landscape plantings within the proposed parking islands, and a buffer planting plan that will vegetate the area between the existing sidewalk and the bank of North Mill Pond. I believe that the combination of the above project components will have no adverse impact on the adjacent wetland resource, but rather improve the functional values of the site.

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

Most of the areas within the 100' City of Portsmouth Wetland Buffer that are proposed to be impacted would be characterized as existing pavement or gravel. There will be alteration of the natural vegetative state to provide an outfall and outlet protection for drainage improvements. The vegetation within the outfall areas are dominated by maintained lawn, and sparse tree/shrub cover. Photo locations of each outfall are depicted in the attached photo log showing the vegetation to be removed for each outfall. Outfall locations are extremely limited as the system functions via gravity and the discharge points need to be adjacent to North Mill Pond.

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 impacts to areas and environments while allowing reasonable use, and continued use of the property. The improvements associated with the proposal in terms of stormwater will increase the water quality leaving the site and entering the nearby wetland resource. While the area to be disturbed to complete the project covers a large area of the subject parcels, the result of the improvements greatly reduce impacts in terms of stormwater pollution.

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

The proposal includes three small areas of alteration of the natural vegetative state to provide outfalls and outlet protection for drainage improvements. This alteration is unavoidable as the system functions via gravity and the discharge point needs to be adjacent to North Mill Pond. A Buffer Planting Plan has been provided to vegetate the area between the proposed sidewalk and the bank of North Mill Pond, which will result in approximately 8,050 sq. ft. of the vegetated buffer strip along North Mill Pond returned to a more natural state than currently exists.

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

Respectfully submitted,

Steven D. Riker NH Certified Wetland Scientist/Environmental Permitting Specialist Ambit Engineering, Inc.

Cc: Doug Pinciaro & Ed Hayes, Clipper Traders LLC-Applicant Tim Phoenix, Hoefle Phoenix Gormley & Roberts, PA.

City of Portsmouth Application for Conditional Use Permit For Use, Activity or Alteration in a Wetland or Wetland Buffer [Zoning Ordinance – Section 10.1010 – Wetlands Protection]

Date Submitted:	Date Submitted: December 6, 2018		Fee: <u>\$1,000</u>		
Site Address:105 Bartlett Street, Portsmouth, NH		Map	Lot	Map 164, lots 1 & 4 Map 157, Lots 1 &	
Zoning District:	CD-4 & CD-4L1		Lot area:	*15.62 Acres	sq. ft.
0	wner		Applic	ant	
Name See Attach	ed Owner List	Name	Clipper Trac	lers II C	
Address		Address	$P \cap Roy 121$		
		-	New Castle	NH 03854	
Phone		Phone	603-475-282	8	
Email		Email	dpinciaro@c	omcast.net	
Proposed Activity (check all that apply):	Im	pacted Jurisdic (check all the	tional Area at apply):	(s)
Expansion of existing	ng structure	🗆 Inland	wetland 🛛 I	Inland wetla	and buffer
C Other site alteration	n (specify):	🛛 Tidal w	vetland	Fidal wetlar	nd buffer
Total area of inland we	tland (both on and off the	parcel):	0		sa, ft.
Distance of proposed s	tructure or activity to edge	e of wetland	:Adiac	ent	ft.
	Total Area on Lot		Area to be	Disturbed	
Inland wetland		sa ft	Alcatoo		sa ft
Tidal wetland	34 146	sq. ft	0		sq. It.
Wetland buffer	276,313	sq. ft.	0 54,879	5	sq. ft.
				*	.
Description of site and	proposed construction:	Please se	e attached lette	r.	
See reverse s	ide for Submission Requir	emants and	Information fo	n Applicant	
	Both sides must be signe	entents and ed to comple	te this form.	Applicant	•
4P	Aront Cas A. (1		D / -		
Owner	Agent-See Autho	nization	Date: De	<u>cember 6, 2</u>	018

Date:

Applicant (if different)

4

Submission Requirements

The applicant must file 22 copies (10 copies for the Conservation Commission and 12 copies for the Planning Board) of a stamped and folded Site Plan to scale showing the location of the proposed structure, use, activity or alteration in relation to the wetland, as determined by on-site inspection by a certified wetland scientist at a time when conditions are favorable for such inspection and delineation. The plan shall include all information specified in Section 10.1017.20 of the Zoning Ordinance, and shall include a locus map with a north arrow.

Information for Applicant

If there is any question, however slight, of the presence of wetlands on the site, the applicant should consult the City Wetlands Map on file in the Planning Department. If it appears that wetlands might exist on site, the applicant should become familiar with the provisions of Section 10.1010 of the Zoning Ordinance.

Review by Independent Certified Wetland Scientist

In the majority of cases the Planning Board will require the opinion of a qualified independent certified wetland scientist. In such cases the procedure is that the Board applies to the Rockingham County Conservation District for the services of such an individual. The findings of the certified wetland scientist will include, but are not limited to, the suitability of the site for the proposed use and the effect of the project on the wetlands on site and in the vicinity.

The certified wetland scientist will render a report to the District, with copies to the Planning Board and the Conservation Commission. The District will bill the City directly for the services of the certified wetland scientist. The owner /applicant shall forward a check to the City made payable to Rockingham County Conservation District prior to the petition being reviewed by either the Conservation Commission or the Planning Board.

Following the receipt of the report from the Rockingham County Conservation District, the Conservation Commission will review the application and will make a recommendation to the Planning Board. Once such a recommendation is made by the Conservation Commission, the Planning Board will schedule a Public Hearing.

I have read and understand the above information. I will pay any additional fees due as required above.

YAK	Agent-See Authorization	Date:	December 6, 2018
Owner			
		Date:	

Applicant (if different)

8 February, 2018

To Whom It May Concern

RE: Client Representation for Re-Development at 105 Bartlett Street, Tax Map 157, Lot 1, Portsmouth, NH

This letter is to inform the City of Portsmouth, NHDES, and other parties in accordance with State Law that Ambit Engineering is authorized to represent the above-mentioned property as our agent in the approval process. This includes signatory powers on any and all applications.

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

Sincerely,

Clipper Traders, LLC Authorized Representative

8 February, 2018

To Whom It May Concern

RE: Client Representation for Re-Development at 105 Bartlett Street, Tax Map 164, Lots 1, 2, & 3 and Tax Map 157, Lot 2, Portsmouth, NH

This letter is to inform the City of Portsmouth, NHDES, and other parties in accordance with State Law that Ambit Engineering is authorized to represent the above-mentioned property as our agent in the approval process. This includes signatory powers on any and all applications.

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

Sincerely,

E.R. Hayer, men ber /mgr.

Portsmouth/Lumber and Hardware, LLC Authorized Representative



PAN AM SYSTEMS 1700 Iron Horse Park No. Billerica, MA 01862-1681 (978) 663-6949

12 October, 2018

To Whom It May Concern

RE: Client Representation for Re-Development at 105 Bartlett Street, Tax Map 164, Lot 4, Portsmouth, NH

This letter is to inform the City of Portsmouth, NHDES, and other parties in accordance with State Law, that Ambit Engineering is authorized to represent the above-mentioned property as our agent in the approval process. This includes signatory powers on any and all applications.

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

Sincerely,

Boston & Maine Corporation Authorized Representative

By:

Michael Twidle Assitant to the Vice President

LIST OF OWNERS

105 Bartlett Street, Portsmouth, NH.

Tax Map 157, Lot 2 Tax Map 164, Lot 1 Portsmouth Lumber & Hardware LLC 105 Bartlett Street, Portsmouth, NH 03801

Tax Map 157, Lot 1

Clipper Traders LLC PO Box 121, New Castle, NH 03854

Tax Map 164, Lot 4

Boston and Maine Corporation 1700 Iron Horse Park Billerica, MA 01862

CLIPPER TRADERS, LLC 105 BARTLETT STREET PORTSMOUTH, NH

Stormwater Treatment Narrative:

Three underground sand filters, a filtration trench and a rain garden are proposed for the treatment of stormwater runoff from the site. Two of the three sand filters are designated for the area of the site where the drainage is being separated from the combined sewer and a third system treats the runoff from the parking lot of Lot 4 as well as the new section of roadway from approximate station 5+75 to the cul-de-sac. The proposed filtration trench is located at the northeast corner of the building on Lot 4. This system treats the runoff from the rooftop of that building. The proposed rain garden is located along the front of the building on Lot 2.

The underground sand filter operates in a similar fashion to a surface sand filter, except that the system is enclosed in a below-grade structure. The structure consists of a multi-chambered vault that accommodates pretreatment, as well as the filtration component of the system. The structure is made accessible through manholes. There is a drain manhole at the entry of each sand filter. This drain manhole contains a high flow diversion weir within it to divert / by-pass flows from higher level storm events.

A typical structure will consist of a three-chambered vault, with the first chamber comprising a sedimentation chamber, the second chamber consisting of the filter, and the final chamber serving as the outlet control for the system. The first chamber provides pretreatment by settling coarse sediments and by trapping floating materials such as trash and oil. The pretreated water then enters the sand filter. A permeable layer of gravel is installed on top of the filter to help prevent clogging of the filter media. A perforated underdrain at the bottom of the filter directs treated water towards the outlet. The subsurface filters are designed as an off-line device, with capacity to treat a portion of the Water Quality Volume whereas larger storm events are diverted from the device. Treatment of 19% to 28% of the Water Quality Volume is obtained with the design. Given the site constraints, the highest practicable levels of treatment is being obtained.

Also, in accordance with Alteration of Terrain Permit requirements, each closed system incorporates deep sump catch basins that are off line to provide pretreatment of stormwater prior to it entering the sand filter system. Each of the three outfalls will be fitted with a Tideflex CheckMate backflow preventer to prevent tidal surge from entering into the system.



Limited ground cover removal needed to access turntable for demolition. Access via existing pavement.



Access to structure for demolition via existing parking lot. Some trees growing within structure footprint.

CLIPPER TRADERS LLC 105 BARTLETT STREET PORTSMOUTH, NH







NH DES Wetland Application Clipper Traders LLC

SITE PHOTOGRAPHS Portsmouth, NH



Site Photograph #2

November 2018





Site Photograph #4











Site Photograph #8

November 2018



Site Photograph #9

November 2018



Site Photograph #10







Site Photograph #13



APPLICANTS AND OWNERS: CLIPPER TRADERS, LLC PO BOX 121 NEW CASTLE, NH 03854

PORTSMOUTH LUMBER AND HARDWARE, LLC 105 BARTLETT STREET PORTSMOUTH, N.H. 03801

BOSTON AND MAINE CORPORATION IRON HORSE PARK HIGH STREET NORTH BILLERICA, MA 01862

CIVIL ENGINEER & LAND SURVEYOR: AMBIT ENGINEERING, INC. 200 GRIFFIN ROAD, UNIT 3 PORTSMOUTH, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

> **ARCHITECT:** WINTER HOLBEN 7 WALLINGFORD SQUARE KITTERY, ME 03904 Tel (207) 994-3104

TRAFFIC ENGINEER: STEPHEN G. PERNAW & COMPANY, INC. PO BOX 1721 LOUDON, N.H. 03307

Tel (603) 731-8500 Fax (603) 929-6094

LANDSCAPE CONSULTANT: **TERRA FIRMA**

163.A COURT STREET PORTSMOUTH, N.H. 03801 Tel (603) 430-8388



Map 10 Character and Civid Legend Downto Histori **Character Dis** CD5 CD4 CD4-W CD4-L² CD4-L **Civic District** Civic Di Municipal Dis Municip

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02	ENVIRONMENTAL PER
CP1-CP2	CONDITIONAL USE P
L1-L4	LANDSCAPE PLAN
L5	BUFFER PLANTING F
C1-C3	EXISTING CONDITION
C4-C8	LOT PLANS
C9-C10	STORMWATER SEPAR
P1-P2	ROADWAY PLAN & I
D1-D7	DETAILS

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.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

PROPOSED SUBDIVISION CLIPPER TRADERS, LLC PROPOSED CLIPPER LANE PORTSMOUTH, NEW HAMPSHIRE CONDITIONAL USE PERMIT APPLICATION





INDEX OF SHEETS

ENVIRONMENTAL PERMIT PLAN PERMIT PLANS

> PLAN IS PLANS

RATION PLANS PROFILES

UTILITY CONTACTS

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

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

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

		LEGE	ND:
	N/F RP RCRD 11 21 • IR FND • IR FND • IR SET • DH FND • DH SET • • • • • • • • • • • • •	NOW OR FO RECORD OF ROCKINGHAI REGISTRY O MAP 11/LO IRON ROD IRON ROD DRILL HOLE DRILL HOLE GRANITE BO ISL — MEAN SEA OTL — HIGHEST O PHOTO LOO	DRMERLY PROBATE M COUNTY DF DEEDS DT 21 FOUND FOUND SET FOUND SET FOUND SET SET DUND w/IRON ROD FOUND LEVEL BSERVABLE TIDE LINE CATION
	EXISTING FM FM S SL G D FD W FS UE FS UE OHW M	FM S S S S S SL PG D FD W FS UGE OHW III 100 98x0 E III III	PROPERTY LINE SETBACK LINE FORCE MAIN SEWER PIPE SEWER LATERAL GAS LINE STORM DRAIN FOUNDATION DRAIN WATER LINE FIRE SERVICE LINE UNDERGROUND ELECTRIC SUPPLY UNDERGROUND ELECTRIC SUPPLY UNDERGROUND ELECTRIC SERVICE OVERHEAD ELECTRIC/WIRES RETAINING WALL EDGE OF PAVEMENT (EP) CONTOUR SPOT ELEVATION UTILITY POLE ELECTRIC METER TRANSFORMER ON CONCRETE PAU ELECTRIC HANDHOLD/PULLBOX
SAFE	 NSO C.O. C.O.<td>SO C.O. GV SMH HYD MH CB WMH</td><td>WATER SHUT OFF/CURB STOP PIPE CLEANOUT GATE VALVE SEWER MANHOLE HYDRANT DRAIN MANHOLE CATCH BASIN WATER METER MANHOLE TEST BORING TEST PIT</td>	SO C.O. GV SMH HYD MH CB WMH	WATER SHUT OFF/CURB STOP PIPE CLEANOUT GATE VALVE SEWER MANHOLE HYDRANT DRAIN MANHOLE CATCH BASIN WATER METER MANHOLE TEST BORING TEST PIT
NH RI 344-1233	LA CI COP CMP DI PVC RCP HYD <i>Q</i>	CI COP CMP DI PVC RCP HYD C	LANDSCAPED AREA CAST IRON PIPE COPPER PIPE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE HYDRANT CENTERLINE

SUBDIVISION PLANS PROPOSED SUBDIVISION **105 BARTLETT STREET** PORTSMOUTH, N.H.

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FF

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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: 6 DECEMBER 2018

2429

EDGE OF PAVEMENT

TEMPORARY BENCH MARK

ELEVATION

FINISHED FLOOR

INVERT

TYPICAL



NH DES WETLANDS- IMPACTS TO TIDAL WETLAND AND THE PREVIOUSLY DEVELOPED 100' TIDAL BUFFER ZONE CITY OF PORTSMOUTH CONDITIONAL USE- IMPACTS TO CITY OF PORTSMOUTH 100' WETLAND BUFFER NH DES AOT- DISTURBANCE OF MORE THAN 50,000 SQUARE FEET ON A PARCEL WITHIN THE SHORELND ZONE



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:

- 1) THE PURPOSE OF THIS PLAN IS TO SHOW THE ANTICIPATED IMPACTS WITHIN AREAS OF JURISDICTION (CITY AND STATE).
- 2) TEMPORARY CONSTRUCTION IMPACTS AND PERMANENT IMPACTS WILL BE CLEARLY DEPICTED AT THE TIME OF FILLING.
- 3) IT IS ANTICIPATED THAT THERE WILL BE A REDUCTION IN IMPERVIOUS SURFACE AS A RESULT OF THE PROJECT.
- 4) THE PROJECT DOES REQUIRE SOME REMOVAL OF VEGETATION WITHIN THE 50' WATERFRONT BUFFER.
- 5) RAIN GARDEN AND OTHER PROPOSED PLANTINGS WILL BE COMPOSED OF NATIVE SPECIES.
- 6) IT IS ANTICIPATED THAT THE NH DES WETLAND PERMIT WILL NOT REQUIRE ANY WAIVERS OF ANY RULES; ENV-WT 300-ENV-WT 800.
- 7) IT IS ANTICIPATED THAT THE PROJECT WILL BE CONSIDERED "LESS NON CONFORMING" UNDER THE SWQPA AND A MORE NEARLY CONFORMING WORKSHEET WILL BE SUBMITTED WITH THE NH DES SHORELAND APPLICATION.
- 8) ALL IMPACTS OCCUR IN AREA THAT ARE PREVIOUSLY DEVELOPED OR HISTORICALLY ALTERED.
- 9) PREVIOUSLY APPROVED CUP (2012) CITY OF PORTSMOUTH FILE 16-12 FOR LOT 2 BUILDING.

CLIPPER TRADERS **105 BARTLETT STREET** PROPOSED SUBDIVISION PORTSMOUTH, N.H.

10.00		
e a l'Ale		
1	NOTES - AOT PERMIT	12/6/18
0	ISSUED FOR COMMENT	10/16/18
NO.	DESCRIPTION	DATE
	REVISIONS	



2429

FB 243 PG 22





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

NOTES:

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.

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).







SCALE 1"=30' OCTOBER 2018
CONDITIONAL USE
PERMIT PLAN
CONDITIONAL USE



FB 243 PG 22

_____2429

Plant	List -	TREES AND SHRUBS		
ID	Qty	Latin Name	Common Name	Scheduled Size
ССР	2	Carpinus caroliniana 'Palisade'	American Hornbeam	2" Cal.
CR1	21	Cornus racemosa	Gray Dogwood	2.5-3' #2B
CSF	5	Cornus sericea 'Fire Dance'	Fire Dance Dogwood	6' HT
CSK1	52	Cornus sericea 'Kelseyi' (1)	Kelsey's Dwarf Red-Osier Dogwood	18-24" #2B
IGS	20	llex glabra 'Shamrock'	Shamrock Inkberry	
JCR	54	Juniperus communis 'Repanda'	Rependa Juniper	3 Gal.
LS	4	Liquidambar styraciflua	Sweetgum	2" Cal.
LT1	3	Liriodendron tulipifera	Tuliptree	2.5-3' #2B
MG1	90	Myrica gale	Sweetgale	2-2.5' #5
NYS	4	Nyssa sylvatica	Black Tupelo	1 1/2-2" Cal.
RGL	95	Rhus aromatica 'Grow Low'	Grow Low Sumac	18"+ Ht.
SAS	4	Sassafras albidum	Sassafras	
SAW	102	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	
SMC	48	Spiraea jaonica 'Magic Carpet'	Magic Carpet Spirea	3-4'
UAP	10	Ulmus americana 'Princeton'	Princeton Elm	
VTC	12	Viburnum trilobum 'Compactum'	Dwarf Cranberry Bush Viburnum	

Plant	List -	PERENNIALS		
ID	Qty	Latin Name	Common Name	Scheduled Size
AOS	38	Aster oblongifolius 'October Skies'	Aromatic Aster	2 QT
BAP	49	Baptisia australis	False Indigo	2 QT
DES	119	Deschampsia cespitosa	Tussock Grass	1 Gal.
GMB	53	Geranium macrorrhizum 'Bevan's'	Cranesbill	2 QT
нн	12	Hypericum 'Hidcote'	Hidcote St. John's Wort	
НМТ	72	Hemerocallis 'Mary Todd'	Mary Todd Daylily	2 QT
LIR	867	Liriope spicata	Lily Turf	
PVS	191	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	2 Gal.
RF	41	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-Eyed Susan	2 QT



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CSF	5	Cornus sericea 'Fire Dance'	Fire Dance Dogwood	6' HT
CSK1	52	Cornus sericea 'Kelseyi' (1)	Kelsey's Dwarf Red-Osier Dogwood	18-24" #2B
IGS	20	llex glabra 'Shamrock'	Shamrock Inkberry	
JCR	54	Juniperus communis 'Repanda'	Rependa Juniper	3 Gal.
LS	4	Liquidambar styraciflua	Sweetgum	2" Cal.
LT1	3	Liriodendron tulipifera	Tuliptree	2.5-3' #2B
MG1	90	Myrica gale	Sweetgale	2-2.5' #5
NYS	4	Nyssa sylvatica	Black Tupelo	1 1/2-2" Cal.
RGL	95	Rhus aromatica 'Grow Low'	Grow Low Sumac	18"+ Ht.
SAS	4	Sassafras albidum	Sassafras	
SAW	102	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	
SMC	48	Spiraea jaonica 'Magic Carpet'	Magic Carpet Spirea	3-4'
UAP	10	Ulmus americana 'Princeton'	Princeton Elm	
VTC	12	Viburnum trilobum 'Compactum'	Dwarf Cranberry Bush Viburnum	

Plant	List -			
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BAP	49	Baptisia australis	False Indigo	2 QT
DES	119	Deschampsia cespitosa	Tussock Grass	1 Gal.
GMB	53	Geranium macrorrhizum 'Bevan's'	Cranesbill	2 QT
HH	12	Hypericum 'Hidcote'	Hidcote St. John's Wort	
НМТ	72	Hemerocallis 'Mary Todd'	Mary Todd Daylily	2 QT
LIR	867	Liriope spicata	Lily Turf	
PVS	191	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	2 Gal.
RF	41	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-Eyed Susan	2 QT







Plant	List -	TREES AND SHRUBS		
ID .	Qty	Latin Name	Common Name	Scheduled Size
ССР	2	Carpinus caroliniana 'Palisade'	American Hornbeam	2" Cal.
CR1	21	Cornus racemosa	Gray Dogwood	2.5-3' #2B
CSF	18	Cornus sericea 'Fire Dance'	Fire Dance Dogwood	6' HT
CSK1	24	Cornus sericea 'Kelseyi' (1)	Kelsey's Dwarf Red-Osier Dogwood	18-24" #2B
IGS	20	llex glabra 'Shamrock'	Shamrock Inkberry	
JCR	93	Juniperus communis 'Repanda'	Rependa Juniper	3 Gal
LS	4	Liquidambar styraciflua	Sweetgum	2" Cal
LT1	3	Liriodendron tulipifera	Tuliptree	2.5-3' #2B
MG1	106	Myrica gale	Sweetgale	2-2.5' #5
NYS	4	Nyssa sylvatica	Black Tupelo	1 1/2-2" Cal
RGL	87	Rhus aromatica 'Grow Low'	Grow Low Sumac	18"+ Ht
SAS	4	Sassafras albidum	Sassafras	
SAW	126	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	······
UAP	10	Ulmus americana 'Princeton'	Princeton Elm	
νтс	12	Viburnum trilobum 'Compactum'	Dwarf Cranberry Bush Viburnum	

Plant	List -	PERENNIALS		
ID	Qty	Latin Name	Common Name	Scheduled Size
BAP	37	Baptisia australis	False Indigo	2 QT
DES	22	Deschampsia cespitosa	Tussock Grass	1 Gal.
GMB	34	Geranium macrorrhizum 'Bevan's'	Cranesbill	2 QT
HH	12	Hypericum 'Hidcote'	Hidcote St. John's Wort	
HMT	93	Hemerocallis 'Mary Todd'	Mary Todd Daylily	2 QT
LIR	808	Liriope spicata	Lily Turf	
PVS	180	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	2 Gal.
RF	59	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-Eyed Susan	2 QT
SH	59	Sporobolus heterolepsis	Prairie Dropseed	1 Gal.









LANDSCAPE NOTES:

WORK.

UNHEALTHY OR UNSIGHTLY CONDITION. OR WHERE OTHER PLANT MATERIAL IS CALLED FOR.

L-4

TURF GRASS AREAS. 16. FOR ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF-SITE, REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC., THEN APPLY GRASS SEED OR PINE BARK MULCH AS DEPICTED ON PLANS. 17. LANDSCAPE CONTRACTOR SHALL FEED AND PRUNE EX. TREES, ON OR JUST OFF SITE, THAT HAVE EXPERIENCED ROOT BASE INTRUSION OR DAMAGE DURING CONSTRUCTION IMMEDIATELY AND FOR THE DURATION OF THE WARRANTY PERIOD AT THE DIRECTION OF THE LANDSCAPE ARCHITECT. 18. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCING AT THE EDGE OF THE EX. TREE CANOPY THE CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPED AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS OR LAWN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT DELIVERED TO THE SITE FOR

AESTHETIC REASONS BEFORE PLANTING. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY FOR ALL THE PLANTS.

8. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED BY THE

5. ALL PLANT MATERIALS SHALL BE EXACTLY AS SPECIFIED BY THE LANDSCAPE ARCHITECT. IF PLANT SPECIES CULTIVARS ARE FOUND TO VARY FROM THAT SPECIFIED AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR REPLACE THAT PLANT MATERIAL.

6. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ON-GOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY. 7. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.

LANDSCAPE ARCHITECT. 9. ALL PLANTS SHALL BE INSTALLED AND DETAILED PER PROJECT SPECIFICATIONS.

10. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST

PRUNE PLANTINGS OF DEAD LIMBS OR TWIGS DURING THE FIRST YEAR OF GROWTH. 12. FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT WILL BE MADE UPON THE CONTRACTOR'S REQUEST AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.

GROWING SEASON. 11. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OR OTHERWISE FORFEIT HIS CLAIM. LANDSCAPE CONTRACTOR SHALL

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING

2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.

3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. 4. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.

13. LANDSCAPE CONTRACTOR SHOULD REPLACE DEAD PLANTINGS IMMEDIATELY UPON OWNER DIRECTION WITHIN THE WARRANTY PERIOD AND AGAIN AT THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAVE DIED, THAT HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT ARE, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN

14. ALL LANDSCAPE AREAS TO BE GRASS COMMON TO REGION EXCEPT FOR INTERIOR LANDSCAPED ISLANDS

15. ALL TREES AND SHRUBS TO BE PLANTED IN MULCH BEDS WITH DEFINED AND CUT EDGES TO SEPARATE

19. ALL MULCH AREAS SHALL RECEIVE A 2" LAYER OF SHREDDED PINE BARK MULCH.

20. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.

-FINISH GRADE

RECEIVING HOLE SHALL BE APPROXIMATELY 2 TIMES LARGER THAN THE ROOT BALL



COMPACTED SOIL TO PREVENT SETTLING

-BACKFILL PLANTING PITS WITH NATIVE SOIL

NOTE: SHRUBS SHALL BE PLANTED A MINIMUM OF 1" & NO MORE THAN 2" ABOVE FINISH GRADE, DEPENDING UPON SITE CONDITIONS.



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N 2420s/N 2429\2017 Site Development/Pla





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

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 157 AS LOTS 1 & 2 AND ASSESSOR'S MAP 16 AS LOTS 1, 2, 3, & 4.

2) PORTIONS OF MAP 157 LOT 1 AND MAP 164 LOT 4 ARE IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

3) THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON THE PARCELS.

4) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS (±0.3').

5) HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS.

SUBDIVISION PLAN CLIPPER TRADERS, LLC OFF BARTLETT STREET PORTSMOUTH, N.H.

1	ISSUED FOR CONCEPTUAL REVIEW	3/5/18
0	ISSUED FOR COMMENT	2/12/18
NO.	DESCRIPTION	DATE
	REVISIONS	

SCALE 1"=30'

_____PSS ____

164/4 REMAINDER

<u>_____s___s___s__</u>

139

N/F REGAN ELECTRONIC CO. INC.

94 LANGDON STREET

PORTSMOUTH, NH 03801 2956/1527

FEBRUARY 2018

FB 243 PG 22

EXISTING CONDITIONS

PLAN

2429

C3



IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)			
STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)	
STRUCTURE (TO ROOF EDGE)	6,379	6,379	
CONCRETE	165	169	
GRAVEL	0	0	
RETAINING WALLS	13	13	
PAVEMENT	8,693	8,693	
TOTAL	15,250	15,254	
LOT SIZE	20,677	20,677	
% LOT COVERAGE	73.8%	73.8%	



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

NOTES:

- 1) CITY OF PORTSMOUTH ASSESSOR'S MAP AND LOT NUMBER TO BE DETERMINED.
- 2) OWNER OF RECORD: PORTSMOUTH LUMBER AND HARDWARE, LLC 105 BARTLETT STREET PORTSMOUTH, NH 03801
- 3) PROPOSED LOT AREA: 20,677 SF; 0.4747 ACRE
- 4) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 5) PARCEL ARE LOCATED IN CHARACTER DISTRICT 4-W (CD4-W) ZONING DISTRICT.
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS $(\pm 0.3')$.
- 7) HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW SITE DETAILS ON PROPOSED LOT 1.
- 9) PARKING CALCULATION: EXISTING USE: GARAGE (NO REQUIREMENT) WAREHOUSE: 4,800 S.F. 4,800 S.F. x 1 Space/1,000 S.F. = 3 SPACES REQUIRED

CLIPPER TRADERS PROPOSED LOT 1 PORTSMOUTH, N.H.

		and the second
4	UTILITIES	11/6/18
3	PARKING, NOTES	10/16/18
2	ISSUED FOR APPROVAL	9/18/18
1	ISSUED FOR APPROVAL	5/22/18
0	ISSUED FOR COMMENT	4/26/18
NO.	DESCRIPTION	DATE
REVISIONS		



#105 2 STORY WOOD FRAME FF=11.5 ROOF PEAK=44.1

STORAGE SHED 1 STORY WOOD FRAME FF=10.2 ROOF PEAK=26.1

FB 243 PG 22

2429



IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)			
STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)	
MAIN STRUCTURE	17,203	17,203	
CONCRETE, STAIRS, PADS	1,117	594	
RETAINING WALLS	60	60	
PAVEMENT	24,049	23,691	
TOTAL	42429	41548	
LOT SIZE	51,952	51,952	
% LOT COVERAGE	81.7%	80.0%	



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

NOTES:

- 1) PARCEL IS TO BE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP WITH LOT NUMBER TO BE DETERMINED.
- 2) OWNER OF RECORD: PORTSMOUTH LUMBER AND HARDWARE, LLC 105 BARTLETT STREET PORTSMOUTH, NH 03801
- 3) PROPOSED LOT AREA: 51,952 SF; 1.192 ACRES
- 4) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 5) PARCEL IS LOCATED IN THE CHARACTER DISTRICT 4-W (CD4-W) ZONING DISTRICT.
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS $(\pm 0.3')$.
- 7) HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS
- 8) PARKING REQUIREMENTS: GENERAL RETAIL: 4832 SF X1 SP PER 300 SF = 17 SPACES GENERAL MANUFACTURING: 1888 SF X 1 SP PER 1000SF = 2 SPACES WHOLESALE USE/WAREHOUSE FL 1: 4550 SF X 1 SP PER 2000SF = 3 SPACES WHOLESALE USE/WAREHOUSE FL 2: 5048 SF X 1 SP PER 2000SF = 3 SPACES BUSINESS OFFICE: 1000 SF X 1SP/350 SF = 3 SPACES
- TOTAL SPACES: 28 REQUIRED SPACES PROPOSED SPACES: 32 SPACES
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW SITE DETAILS ON PROPOSED LOT 2.

CLIPPER TRADERS PROPOSED LOT 2 PORTSMOUTH, N.H.

3	EASEMENTS, SIDEWALK	11/6/18
2	PARKING, COVERAGE	10/16/18
1	ISSUED FOR APPROVAL	5/22/18
0	ISSUED FOR COMMENT	4/26/18
NO.	DESCRIPTION	DATE
5 A.A.	REVISIONS	



LOT 2 PLAN

C5



IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)			
STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)	
STRUCTURES	26,062	26,062	
CONCRETE & CURBING	59	59	
GRAVEL	1,352	1,352	
PAVEMENT	59,798	58,831	
TOTAL	87,271	86,304	
LOT SIZE	102,003	102,003	
% LOT COVERAGE	85.6%	84.6%	

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

NOTES:

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FUTURE USE

- 1) PARCEL IS TO BE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP AND LOT NUMBER TO BE DETERMINED.
- 2) OWNER OF RECORD: PORTSMOUTH LUMBER AND HARDWARE, LLC 105 BARTLETT STREET PORTSMOUTH, NH 03801
- 3) PROPOSED LOT AREA: 102,003 SF; 2.341 ACRES
- 4) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 5) PARCEL IS LOCATED IN THE CHARACTER DISTRICT 4-W (CD4-W) ZONING DISTRICT.
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS $(\pm 0.3')$.
- HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE 7) NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW SITE DETAILS ON PROPOSED LOT 3.
- 9) PROPOSED PARKING: STORE: 8,100 SF x 1 SP/300 SF = 27 OFFICE: 2,050 SF x 1 SP/350 SF = 6 LUMBER OPERATIONS: 10,490 SF NO REQUIREMENT TOTAL REQUIRED: 33 SPACES TOTAL PROVIDED: 34 SPACES
- 10) THE CITY OF PORTSMOUTH WILL BE GRANTED A BLANKET EASEMENT FOR THE EXISTING WATER UTILITY.

CLIPPER TRADERS PROPOSED LOT 3 PORTSMOUTH, N.H.

4	CALL OUTS, UTILITES	12/6/18
3	EASEMENT, UTILITIES	11/6/18
2	PARKING NOTES	10/16/18
1	ISSUED FOR APPROVAL	5/22/18
0	ISSUED FOR COMMENT	4/26/18
NO.	DESCRIPTION	DATE
	REVISIONS	

SCALE 1" = 40'

FB 243 PG 22

LOT 3 PLAN

2429

APRIL 2018

C6

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

NOTES:

- 1) PARCEL IS TO BE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP AND LOT NUMBER TO BE DETERMINED.
- 2) OWNERS OF RECORD: BOSTON AND MAINE CORPORATION IRON HORSE PARK NORTH BILLERICA, MA 01862
 - CLIPPER TRADERS, LLC 105 BARTLETT STREET PORTSMOUTH, NH 03801 5598/2725
- 3) PROPOSED LOT AREA: 61,764 SF; 1.418 ACRES
- 4) PORTIONS OF THE PARCEL IS IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 5) PROPOSED PARCEL IS LOCATED IN THE CD-4W ZONING DISTRICT.
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS $(\pm 0.3')$.
- 7) HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW SITE DETAILS ON PROPOSED LOT 4.
- 9) PROPOSED PARKING: 25 SPACES REQUIRED PER VARIANCE GRANTED 3/21/2016 25 SPACES PROVIDED

CLIPPER TRADERS PROPOSED LOT 4 PORTSMOUTH, N.H.

3	SIGHT DISTANCE AREAS	11/6/18
2	PARKING NOTES	10/16/18
1	ISSUED FOR APPROVAL	5/22/18
- 0	ISSUED FOR COMMENT	4/26/18
NO.	DESCRIPTION	DATE
ta ar	REVISIONS	

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FB 243 PG 22

2429

IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)				
RUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)		
S + TURNSTYLE	14,688	7,351		
	227	227		
	29,191	29,191		
	1,236	1,019		
	45,342	37,788		
	177,435	177,435		
(ERAGE	25.6%	21.3%		

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:

- 1) PARCEL IS TO BE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP AND LOT NUMBER TO BE DETERMINED.
- 2) OWNERS OF RECORD: BOSTON AND MAINE CORPORATION IRON HORSE PARK NORTH BILLERICA, MA 01862
- 3) PROPOSED LOT AREA: 177,435 SF
- 4) PORTIONS OF THE PARCEL IS IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 5) PROPOSED PARCEL IS LOCATED IN THE CD4-W & CD4-L1 ZONING DISTRICTS.
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS (±0.3').
- 7) HORIZONTAL DATUM AND BASIS OF BEARINGS IS THE NH STATE PLANE COORDINATE SYSTEM NAD 83 (2011). BASIS OF HORIZONTAL DATUM IS REDUNDANT RTN GPS OBSERVATIONS
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW SITE DETAILS ON PROPOSED LOT 5.
- 9) PROPOSED PARKING: LIGHT INDUSTRY $4,000 \text{ SF} \times 1 \text{ SP}/500 \text{ SF} = 8 \text{ SPACES REQUIRED}$ 8 SPACES PROVIDED.

CLIPPER TRADERS PROPOSED LOT 5 PORTSMOUTH, N.H.

3	PARKING, UTILITIES	11/6/18
2	DRIVEWAY & PARKING NOTES	10/16/18
1	ISSUED FOR APPROVAL	5/22/18
0	ISSUED FOR COMMENT	4/26/18
NO.	DESCRIPTION	DATE
the second	REVISIONS	• · · · · · · · · · · · · · · · · · · ·

FB 243 PG 22

DRAINAGE STRUCTURES

STONE APRON INV. OUT: 5.71 PDMH 10 RIM: 11.19

INV. IN: 6.03 INV. OUT: 6.03 PDMH 11 RIM: 11.65

INV. IN: 5.88 INV. IN: 5.88 INV. IN: 5.88 (ROOF DRAIN) OUT: 5.88

PDMH 13 RIM: 11.63 INV. IN: 7.00 INV. IN: 7.00 INV. IN: 7.00 INV. OUT: 7.00

PDMH 14 RIM: 12.00 INV. IN: 8.19 OUT: 8.19

PDMH 15 RIM: 10.97 INV. IN: 5.82 OUT: 5.82 OUT: 5.82 WEIR:6.50 INSTALL TIDEFLEX CHECKMATE VALVE ON OUTLET PIPE

PDMH 15a RIM: 10.97 INV. IN: 5.75 ₩YB 助: 5.80 (8") RMT: 草0?Ō0 INV. OUT: 7.50

PCB 12 RIM: 11.41 OUT: 7.05

PCB 13 RIM: 11.41 OUT: 7.05

PCB 16 SEE DETAIL SHEET RIM: 10.75 ORIFICE: 9.50 (3 - 2" DIA.)OUT: 8.25

FROM STONE APRON TO PDMH 15a 24" HDPE: L: 9.5 FT SLOPE: 0.004

FROM PDMH 15a TO PDMH 15 24" HDPE: L: 17 FT SLOPE: 0.0041

FROM PDMH 15 TO PDMH 11 24" HDPE: L: 16 FT SLOPE: 0.0037

FROM PDMH 11 TO PDMH 10 24" HDPE: L: 38 FT SLOPE: 0.0039

FROM PDMH 10 TO PDMH 13 24" HDPE: L: 195 FT SLOPE: 0.005

FROM PDMH 13 TO PDMH 14 24" HDPE: L: 238 FT SLOPE: 0.005

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:

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.

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).

SUBDIVISION PLAN CLIPPER TRADERS, LLC OFF BARTLETT STREET PORTSMOUTH, N.H.

3	DRAINAGE	12/6/18
2	DRAINAGE LAYOUT, TREATEMENT	11/6/18
1	ISSUED TO NHDES	11/1/18
0	ISSUED FOR COMMENT	10/16/18
NO.	DESCRIPTION	DATE
REVISIONS		

SCALE 1"=30'

STORMWATER & SEPARATION PLAN

FB 243 PG 22

C10

FEBRUARY 2018

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

NOTES:

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.

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).

4) ELECTRICAL CONDUITS WILL BE RUN DURING ROAD CONSTRUCTION. PULL ROPES TO BE INSTALLED AND LEFT FOR FUTURE USE.

SUBDIVISION PLAN CLIPPER TRADERS, LLC OFF BARTLETT STREET PORTSMOUTH, N.H.

4	PROFILE, ELEVATIONS	12/6/18
3	DRAINAGE	11/6/18
2	ADDED UTILITIES	10/16/18
1	ISSUED FOR APPROVAL	9/18/18
0	ISSUED FOR COMMENT	2/12/18
NO.	DESCRIPTION	DATE
REVISIONS		

SCALE 1"=30' FEBRUARY 2018

ROADWAY PLAN & PROFILE

P2

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

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

THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, i.e., CATCH BASIN FILTERS AND SILT SOXX AROUND THE LIMITS OF DISTURBANCE. INSTALL CONSTRUCTION ENTRANCE.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH IN THE WORK AREA AS REQUIRED.

CONSTRUCT BASINS DEVICES AND OUTLETS, BUT DO NOT ALLOW INFLOW UNTIL ALL CONTRIBUTING AREAS ARE STABILIZED AND EROSION-FREE.

ALL PERMANENT DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

CONSTRUCT UTILITIES.

PLACE BINDER LAYER OF PAVEMENT, THEN RAISE CATCH BASIN FRAMES TO FINAL GRADE. REINSTALL BASIN INLET PROTECTION.

PLANT LANDSCAPING IN AREAS OUT OF WAY OF CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.

COMPLETE UTILITIES

CONSTRUCT ASPHALT WEARING COURSE.

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

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

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 DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

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.

SILT FENCES SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES 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) USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

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

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

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

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

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	PROPORTION	SEEDING RATE	
	CREEPING RED FESCUE KENTUCKY BLUEGRASS	50% 50%	100 LBS/ACRE	
3:1)	SLOPE SEED (USED ON AL	l slopes gr	REATER THAN OR	EQUAL TO

CREEPING RED FESCUE 42% TALL FESCUE 42% 48 LBS/ACRE **BIRDSFOOT TREFOIL** 16%

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.

1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

MULCH:

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 I FAST 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 FENCE BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SILT FENCING SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE 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.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

1) MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.

2) IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

CONSTRUCTION SPECIFICATIONS

1) STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE.

2) THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.

3) THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

4) THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.

5) GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.

6) ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

7) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

8) WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

IS COMPLETE. FILTER FABRIC ANCHOR. SPECIFICATIONS: INLET BASKET LENGTH (L) & WIDTH (W) AS REQUIRED TO FIT NHDOT TYPE GRATE & FRAME. TOP VIEW CATCH BASIN INLET BASKET

GRATE

DIRTBAGR

LENGTH

PLAN VIEW

DIRTBAG(R)

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

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

3) THE FILTER FABRIC SHALL BE A GEOTEXTILE FABRIC; POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING

> -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.)

5) 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.

SIDE VIEW

- HIGH STRENGTH DOUBLE STITCHED "J" TYPE SEAMS - SEWN IN SPOUT - HIGH STRENGTH STRAPPIN FOR HOLDING HOSE IN PLACE

OPFNING

- PUMP DISCHARGE

ACCOMMODATES UP TO

4" DISCHARGE HOSE

- 18" THICKNESS OF **¾**" CRUSHED STONE

NTS

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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2) 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.

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).

STORMWATER MANAGEMENT SYSTEM

INSPECTION & MAINTENANCE

THE OPERATOR IS RESPONSIBLE FOR IMPLEMENTING AND FOLLOWING THE STORMWATER INSPECTION AND MAINTENANCE PLAN WHICH CAN BE FOUND IN THE DRAINAGE REPORT.

PROPOSED SUBDIVISION CLIPPER TRADERS, LLC **105 BARTLETT STREET** PORTSMOUTH, N.H.

4	DETAIL CALLOUTS	12/6/18
3	CONSTRUCTION SEQUENCE	11/6/18
2	ISSUED FOR APPROVAL	10/16/18
1	ISSUED FOR COMMENT	9/18/18
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FEBRUARY 2018

2429

Radius	Max. length
21'	3'
22 - 28 29' - 35'	4 5'
36' - 42'	6' 7'
50' - 56'	8'
57' - 60'	9' 10'

MIN. LENGTH OF STRAIGHT CURB STONES: 18" MAX. LENGTH OF STRAIGHT CURB STONES: 8FT. MAX. LENGTH OF STRAIGHT STRAIGHT CURB

Radius for stones	Maximum
with square joints	length
16' - 28'	6" to 1'
29' - 41'	2'
42' - 55'	3'
56' - 68'	4'
69' - 82'	5'
83' - 96'	6'
97' - 110'	7'
over 110'	8'

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TRENCH NOTES:

A) IRENCH BACKFILL - IN PAVED AREAS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIALS DEEMED TO BE UNACCEPTABLE BY THE ENGINEER.

- IN <u>CROSS-COUNTRY</u> CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE.

B) "W" = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D..

C) TRENCH SHEETING:

IF REQUIRED. WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.

D) MINIMUM PIPE COVER FOR UTILITY MAINS

- (UNLESS GOVERNED BY OTHER CODES):
- 6' MINIMUM FOR SEWER (IN PAVEMENT) 4' MINIMUM FOR SEWER (CROSS COUNTRY)
- 3' MINIMUM FOR STORMWATER DRAINS
- 5' MINIMUM FOR WATER MAINS

E) ALL PAVEMENT CUTS SHALL BE REPAIRED BY THE INFRARED HEAT METHOD.

-50' R.O.W. -N.H.D.O.T. DIVISION 400, SECTION 403 (2" WEAR COURSE, 12.5mm SUPERPAVE - 22' WIDE) (2" BASE COURSE, 19mm SUPERPAVE - 22' WIDE) CONCRETE 4" SCREENED SIDEWALK VERTICAL GRANITE CURE LOAM & SUITABLE SEED MIXTURE -5" REVEAL (TYPICAL) 17?, USA C.I. FRAME - & COVERS (ALL) 2% 2%_ 1/4" PER FT. -----1/4" PER FI 2% ADJUST TO GRADE w/ BRICK (6" MIN. TO 12" MAX. ADJUSTMENT) -WARNING TAPE TV CABLE -SEWER SDR35 PVC DRAIN------- TELEPHONE (12"ø MIN.) 10' MIN. ----- ELECTRIC TO SEWER SUMP GRIND / REMOVE ALL CLDI WATER LINE -MATERIAL TO THIS 5' COVER (MIN.) 7' (MAX.) SET IN 6" SAND BED LINE (MIN.) & COMPACT. ANY ORGANIC MATERIAL BELOW 4 FT. DIA. PRECAST-THIS LINE MUST BE REMOVED SEE NOTE 3 CATCH BASIN & REPLACED WITH SUITABLE MATERIAL AND COMPACTED. 8" CRUSHED GRAVEL-N.H.D.O.T. DIV. 300 8" GRAVEL-----SECT. 304 8" SAND ----1) REMOVE LEDGE TO 28" BELOW FINISHED SURFACE. 2) REMOVE CLAY, LOAM AND ANY OTHER UNSUITABLE MATERIALS TO 28" BELOW FINISHED SURFACE. 3) INSTALL GEOTEXTILE FABRIC ABOVE CLAYS AND SILTS OR IN AREAS WHERE EXCAVATION IS BELOW THE SEASONAL HIGH WATER TABLE.

NOTES: 1) ALL CONDUIT TO BE U.L. LISTED, SCH. 80 UNDER ALL TRAVEL WAYS, & SCHED. 40 FOR THE REMAINDER.

2) NORMAL CONDUIT SIZES FOR PSNH ARE 3 INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4 INCH FOR THREE PHASE SECONDARY, AND 5 INCH FOR THREE PHASE PRIMARY.

3) ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE (LATEST REVISION) 4) INSTALL A 200# PULL ROPE FOR EACH CONDUIT

1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS. 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. 3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.. 4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.

´N∖DRAIN MANHOLE DETAIL

COVER MIN. - SEE TRENCI PADDING NOTE 36" MIN.) SEWER

TRENCH DEPTH MAINS: THE TRENCH SHALL BE DEEP ENOUGH TO PROVIDE 36" OF COVER FROM FINISHED GRADE TO CROWN OF PIPE. SERVICES & MAINS ON PRIVATE PROPERTY: 24" OF COVER REQUIRED

TRENCH WIDTH: TRENCH SHALL BE AT LEAST 18" WIDE, UNLESS OTHERWISE SPECIFIED BY UNITIL PERSONNEL. THE SPOIL SHOULD BE AT LEAST 24" FROM THE EDGE OF THE TRENCH (0.S.H.A.).

TRENCH OFFSET:

TRENCH SHALL BE LAID OUT SO AS TO PROVIDE A MINIMUM OFFSET OF 36" FROM OTHER UTILITIES. WHERE PRACTICAL, GAS MAINS SHOULD BE ON THE OPPOSITE SIDE OF THE STREET FROM WATER MAIN.

TRENCH PADDING: THE NATURAL BOTTOM OF THE TRENCH SHALL BE PADDED WITH 6" OF SAND. ALSO, SUFFICIENT SAND MUST BE PROVIDED FOR A MINIMUM OF 6" OF COVER ABOVE THE GAS MAIN. SAND SHALL BE PROVIDED BY THE EXCAVATOR AND MUST BE ON SITE PRIOR TO INSTALLATION OF PIPE.

<u>PRE-CONSTRUCTION MEETING:</u> NO TRENCHING SHALL BE STARTED PRIOR UNTIL AN ON SITE MEETING HAS BEEN HELD BETWEEN THE EXCAVATING CONTRACTOR AND UNITIL PERSONNEL. PRIOR TO THE MEETING, THE CONTRACTOR MUST NOTIFY DIGSAFE OF THE PROPOSED WORK. THE FOLLOWING SHALL BE CONFIRMED AT THE MEETING: ROUTE OF TRENCH AND TENTATIVE START DATE.

INSTALLATION OF GAS MAIN & SERVICES: ONCE UNITIL HAS INSTALLED THE MAIN AND SERVICES, THE BUILDER/DEVELOPER WILL COVER THE PIPE WITH 6" OF SAND AND INSTALL THE TRACING WIRE AND WARNING TAPE PRIOR TO BACKFILLING. THE EXCAVATING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER COMPACTING OF THE TRENCH AND MAINTAINING ALL SURFACE (VALVE) BOXES PRIOR TO AND DURING ON SITE PAVING.

IF THIS WORK IS TO TAKE PLACE OUTSIDE OF NORMAL CONSTRUCTION SEASON (APRIL THROUGH NOVEMBER). OFF SITE TIE-INS ON CITY STREETS SHALL BE DONE SUBJECT TO UNITIL CREW AVAILABILITY AND ISSUANCE OF REQUIRED PERMITS.

NTS

OR PRECAST CONCRETE RINGS MAXIMUM 12" ADJUSTMENT. BRICK OR CONCRETE RINGS SHALL BE INSTALLED WITH NO OVERHANG.

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1) HYDRANTS SHALL BE INSTALLED A MAXIMUM DISTANCE OF 3 FEET CURB LINE TO OPERATING NUT.

4) AREA AROUND HYDRANT SHALL BE GRADED TO ALLOW ANY SURFACE WATER TO DRAIN AWAY FROM

7) A GATE VALVE SHALL BE INSTALLED BETWEEN THE HYDRANT AND THE MAIN ON THE LATERAL.

9) HYDRANT LATERALS SHALL BE CONNECTED TO WATER MAINS 8 INCHES IN DIAMETER OR LARGER.

12) THERE SHALL ALSO BE AN INDICATOR POST FABRICATED FROM 2 INCH INSIDE DIAMETER GALVANIZED STEEL PIPE, 7 FEET ABOVE FINISHED GRADE, AND SET 2 FEET BELOW GRADE IN CLASS "A" CONCRETE CONCRETE 6 INCHES ALL AROUND POST. THIS POST SHALL BE COATED WITH ZINC CHROMATE PRIMER AND PAINTED WITH HIGH VISIBILITY RED. THE INDICATOR POST SHALL BE NO CLOSER THAN 3 FEET FROM THE

13) INSTALLATION OF HYDRANTS IN HEAVY GROWTH AREAS SHALL HAVE GATE BOXES RAISED 6 INCHES

FIRE HYDRANT INSTALLATION DETAIL NTS

- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE
- INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECEP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF
- STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S. 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE, RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE
- APPROPRIATE STAPLE PATTERN. 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON RECP'S TYPE.
- 5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA. APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

CATCH BASIN OUTLET HOOD DETAIL C9/ THE "SNOUT

-STRUCTURE WALL -ANTI-SIPHON DEVICE - DFBRIS SEPARATION HOOD -ACCESS POR $1/2 \times DIA.$ (6" MIN.)

-WATERTIGHT FOAM GASKET w/ PSA BACKING COMPRESSED BETWEEN STRUCTURE & FLANGE SIDE VIEW

NTS

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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PROPOSED SUBDIVISION CLIPPER TRADERS, LLC 105 BARTLETT STREET PORTSMOUTH, N.H.

3	DETAIL REFERENCES	12/6/18
2	ISSUED FOR APPROVAL	10/16/18
1	ISSUED FOR COMMENT	9/18/18
0	ISSUED FOR COMMENT	2/12/18
NO.	DESCRIPTION	DATE
	REVISIONS	

SCALE: AS NOTED

FEBRUARY 2018

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GENERAL NOTES, cont'd GENERAL NOTES 1) MINIMUM PIPE SIZE FOR COMMERCIAL SERVICE SHALL BE SIX INCHES. 2) PIPE AND JOINT MATERIALS: A. PLASTIC SEWER PIPE 1. PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS: GENERIC ASTM SIZES INCHES IS IN CONTACT WITH THE PIPE. STANDARDS PIPE MATERIAL APPROVED D3034 *PVC (SOLID WALL) 8" THROUGH 15" (SDR 35) F679 PVC (SOLID WALL) 18" THROUGH 27" (T-1 & T-2) PVC (SOLID WALL) F789 4" THROUGH 18" (T-1 To T-3) PVC (RIBBED WALL) F794 8" THROUGH 36" AWWA C900 PVC (SOLID WALL) 8" THROUGH 18" *PVC: POLYVINYL CHLORIDE 2. JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON BELL AND SPIGOT TYPE. BLOCKS. B. DUCTILE IRON PIPE, FITTINGS AND JOINTS. 1. DUCTILE IRON PIPE AND FITTINGS FOR SEWERS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE: A21.50 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 2008). DUCTILE IRON CASTINGS. A21.51 DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOULDS OR SAND LINED MOULDS FOR SEWER APPLICATIONS. EXCAVATION. 2. JOINTS SHALL BE OF THE MECHANICAL OR PUSH ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO: CONSTRUCTION. A21.11 RUBBER GASKET JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS. 3) DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE. 4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED. AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED. 5) TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE DEPENDING ON THE PIPE ENCOUNTERED, FOR PVC PIPE, USE PVC SADDLES OR INSERT-A-TEE, OR CUT IN A SANITARY TEE. FOR CLAY PIPE, USE INSERT-A-TEE OR CUT IN A SANITARY TEE. ALL WORK TO BE APPROVED BY GOVERNING BODY. 6) HOUSE SEWER INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND REFILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES. THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH. 7) TESTING: WHEN REQUIRED BY THE GOVERNING AUTHORITY, TESTING SHALL CONFORM TO ENV-WQ 704.07. ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM DWELLING TOILETS, SINKS, LAUNDRY ETC. CONCRETE SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER. DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED. 6" MIN. -----9) WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE, UNLESS IT IS ON A SHELF 12" HIGHER, AND 18" APART. 10) BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND 6" MIN. MEETING ASTM C33 STONE SIZE NO. 67.

100%	PASSING	1 INCH SCREEN
90%-100%	PASSING	3/4 INCH SCREEN
20%- 55%	PASSING	3/8 INCH SCREEN
0%- 10%	PASSING	#4 SIEVE
0%- 5%	PASSING	#8 SIEVE

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.

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:

> CEMENT: 6.0 BAGS PER CUBIC YARD WATER: 5.75 GALLONS PER BAG OF CEMENT MAXIMUM AGGREGATE SIZE: 3/4 INCH

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

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, TOPSOIL, ROCKS OVER 6" IN SIZE, MUCK, PEAT OR PIECES OF PAVEMENT.

15) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB-SITE SAFETY AND COMPLIANCE WITH GOVERNING REGULATIONS.

16) ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL. FOR TRENCH WIDTH SEE TRENCH DETAIL.

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

18) BASE COURSE GRAVEL, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE:

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION.

19) FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

20) IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE

21) 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

22) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY

23) THE PURPOSE OF THIS PLAN IS TO SHOW STANDARDS FOR SEWER

24) ALL WORK SHALL BE IN COMPLIANCE WITH NHDES CODE OF ADMINISTRATIVE RULES PART ENV-WQ 704 DESIGN OF SEWERS.

CHAIRMAN

AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

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PROPOSED SUBDIVISION CLIPPER TRADERS, LLC **105 BARTLETT STREET** PORTSMOUTH, N.H.

10/16/1 ISSUED FOR APPROVAL DESCRIPTION DATE REVISIONS

SCALE: AS NOTED

FEBRUARY 2018

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- BY THE METHOD IN BEST MANAGEMENT PRACTICE FOR ROCK RIP RAP. 3. GEOTEXTILE FABRIC SHALL BE PROTECTED FROM PUNCTURES OR TEARING DURING PLACEMENT OF THE ROCK RIP RAP BY PLACING A CUSHION OF SAND OR FINE GRAVEL OVER THE FABRIC. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC, SHALL BE A MINIMUM OF 12 INCHES.
- 4. STONE FOR RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT DISPLACEMENT OF THE UNDERLYING MATERIALS. HAND PLACEMENT MAY BE REQUIRED TO PREVENT DAMAGE TO ANY PERMANENT STRUCTURES.
- 5. VOIDS IN RIP RAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

SAND SPECIFICATION		
SIEVE SIZE	ASTM C33 FINE AGGREGATE SPECIFICATION	
3/8"	100	
#4	95-100	
#8	80-100	
# 10	50-85	
#16	50-85	
# 30	25-60	
#40	50-85	
# 50	5–30	
#100	0-10	

PEA STONE AND MULCH LAYERS.

FILTRATION CONSTRUCTION INSPECTION INSPECT EACH LAYER OF CONSTRUCTION: CONTACT THE PORTSMOUTH DEPARTMENT OF PUBLIC WORKS FOR INSPECTIONS DURING THE CONSTRUCTION PROCESS. CALL FOR INSPECTION BEFORE FILLING EXCAVATION WITH STONE, PEA STONE AND MULCH.

UNDERGROUND SAND FILTER SHOP DRAWINGS SHALL BE NTS SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION

FILTRATION CONSTRUCTION SOILS: DO NOT COMPACT SOIL. HAND RAKE STONE,

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3	HH AND CALLOUTS	12/6/18
2	DETAIL HH	11/30/18
1	DETAIL BB, EE, FF, GG,	11/6/18
0	ISSUED FOR APPROVAL	10/16/18
NO.	DESCRIPTION	DATE
REVISIONS		

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В	С
0.81	6.48
0.32	5.99
1.58	7.52

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