PROPOSED DEVELOPMENT 145 BREWERY LANE

PORTSMOUTH, NEW HAMPSHIRE PERMIT PLANS

OWNER/APPLICANT/BUILDER: PORTSMOUTH WEST END DEVELOPMENT, LLC

3 PENSTOCK WAY NEWMARKET, NH 03857 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

LANDSCAPE ARCHITECT:

G2+1 LLC

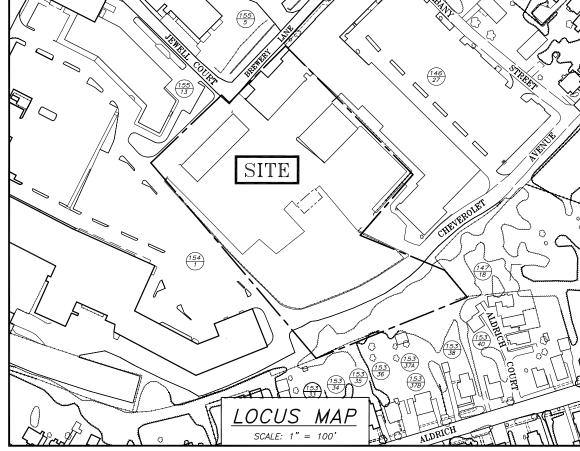
70 NEW ROAD SALISBURY, NH 03268 TEL./FAX. (603) 648-6434

ARCHITECT:

CJ ARCHITECTS

233 VAUGHN STREET PORTSMOUTH NH, 03801 Tel.(603) 431-2808

Map 10.5A21A **Character Districts** and Civic Districts Legend Historic District Character Districts CD5 Character District 5 CD4 Character District 4 CD4-W Character District 4-W CD4-L2 Character District 4-L3 CIVIC Civic Dis





EXISTING PROPOSED PROPERTY LINE SETBACK SEWER PIPE SEWER LATERAL GAS LINE STORM DRAIN WATER LINE WATER SERVICE UNDERGROUND ELECTRIC OVERHEAD ELECTRIC/WIRES — OHW — FOUNDATION DRAIN EDGE OF PAVEMENT (EP) CONTOUR SPOT ELEVATION UTILITY POLE -0- WALL MOUNTED EXTERIOR LIGHTS TRANSFORMER ON CONCRETE PAD FLECTRIC HANDHOLD 450 GSO SHUT OFFS (WATER/GAS) GATE VALVE HYDRANT (IIII) CE CATCH BASIN (3) SEWER MANHOLE 0 DRAIN MANHOLE **(** TELEPHONE MANHOLE 14) 14) PARKING SPACE COUNT (PM) PARKING METER LSA LANDSCAPED AREA TBD TO BE DETERMINED CI COP CAST IRON PIPE COPPER PIPE COP DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE ASBESTOS CEMENT PIPE VITRIFIED CLAY PIPE FDGE OF PAVEMENT FI EVATION FINISHED FLOOR INVERT SLOPE FT/FT TEMPORARY BENCH MARK

PERMIT LIST: NHDES ACT: TO BE SUBMITTED

NHDES SEWER DISCHARGE PERMIT: TO BE SUBMITTED

LEGEND:

INDEX OF SHEETS

- BOUNDARY AND EASEMENT PLAN (EXISTING) C1
- EASEMENT PLAN (PROPOSED) C1A
- EXISTING CONDITIONS PLAN
- EXISTING UTILITIES PLAN C.3
- DEMOLITION PLAN
- C5 SITE LAYOUT PLAN
- C6 UTILITY PLAN
- C7 GRADING & EROSION CONTROL PLAN
- С8 LANDSCAPE PLAN
- LA 1.0-6.0 LANDSCAPE DETAILS
- C9 LIGHTING PLAN
- 0S OFF SITE PLAN
- DRIVEWAY PLAN AND PROFILE
- UTILITY PLAN AND PROFILE
- Р3 GARAGE PLAN AND PROFILE
- BREWERY LANE PLAN AND PROFILE
- P4 D1 EROSION CONTROL NOTES & DETAILS
- D2-D5
- A1.0 PRELIMINARY FIRST FLOOR PLAN
- A2.0 ELEVATIONS

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

NATURAL GAS: 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

PROPOSED DEVELOPMENT 145 BREWERY LANE PORTSMOUTH, N.H.



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

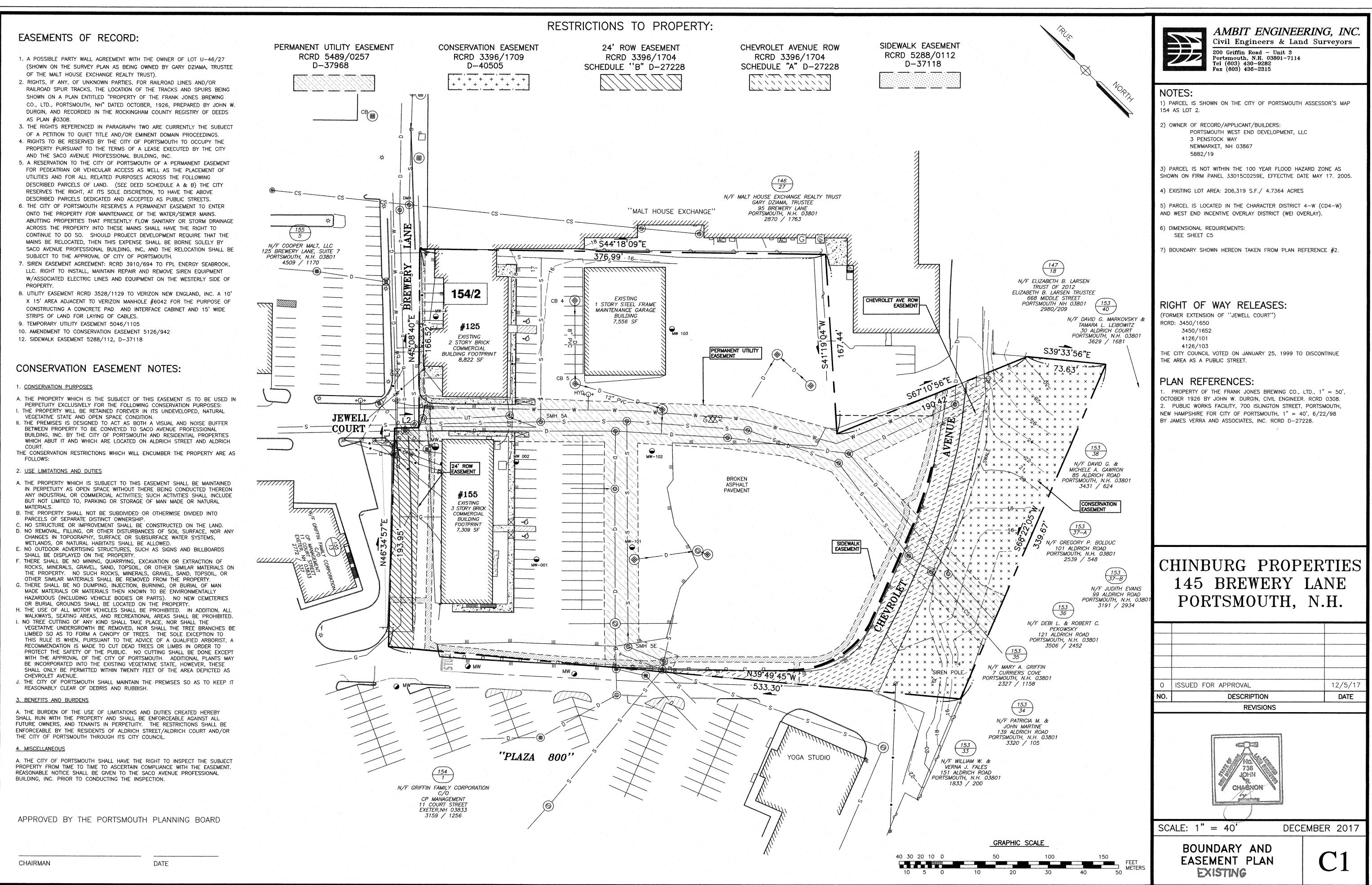
PLAN SET SUBMITTAL DATE: 10 APRIL 2018

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

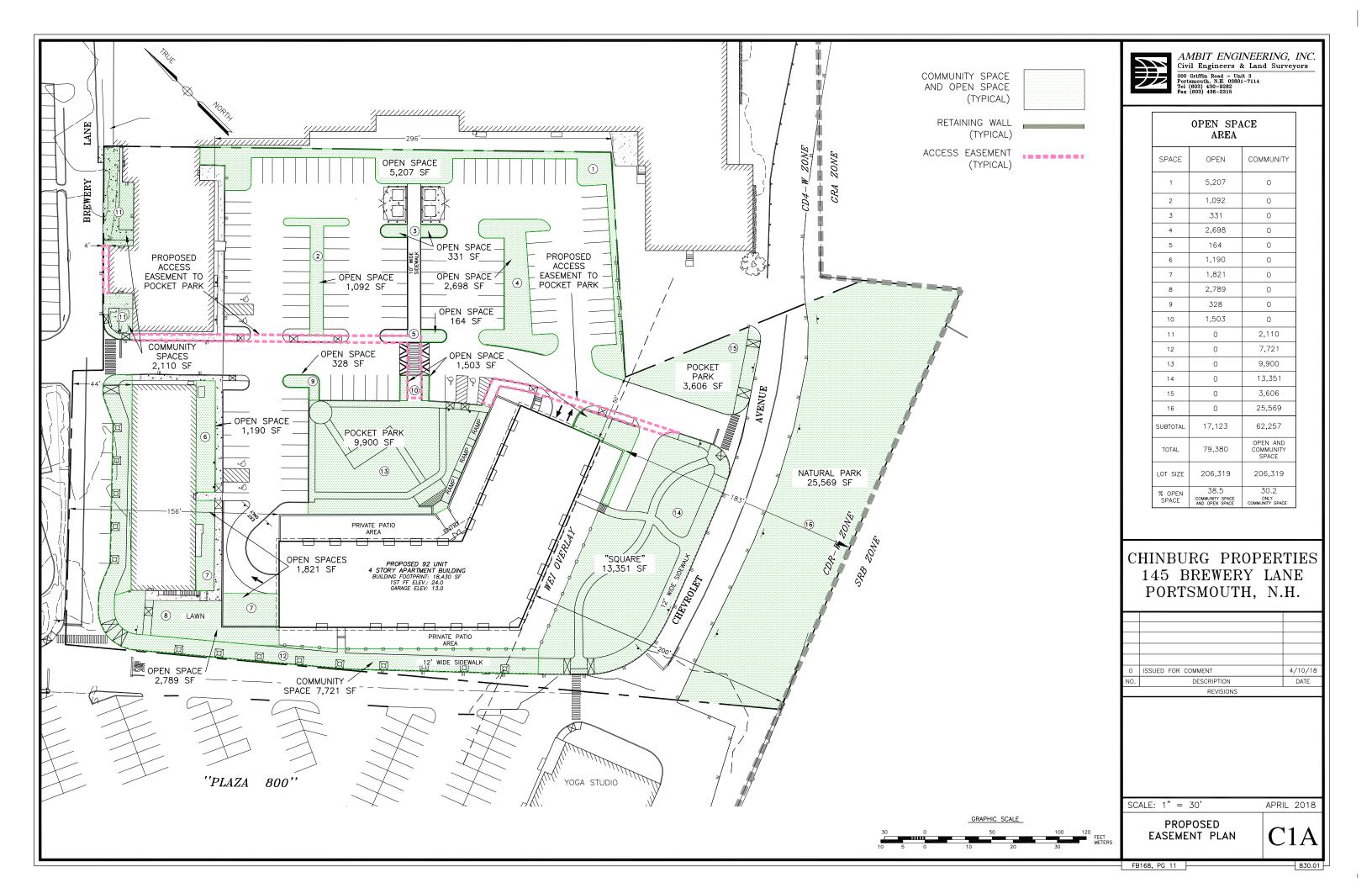
CHAIRMAN

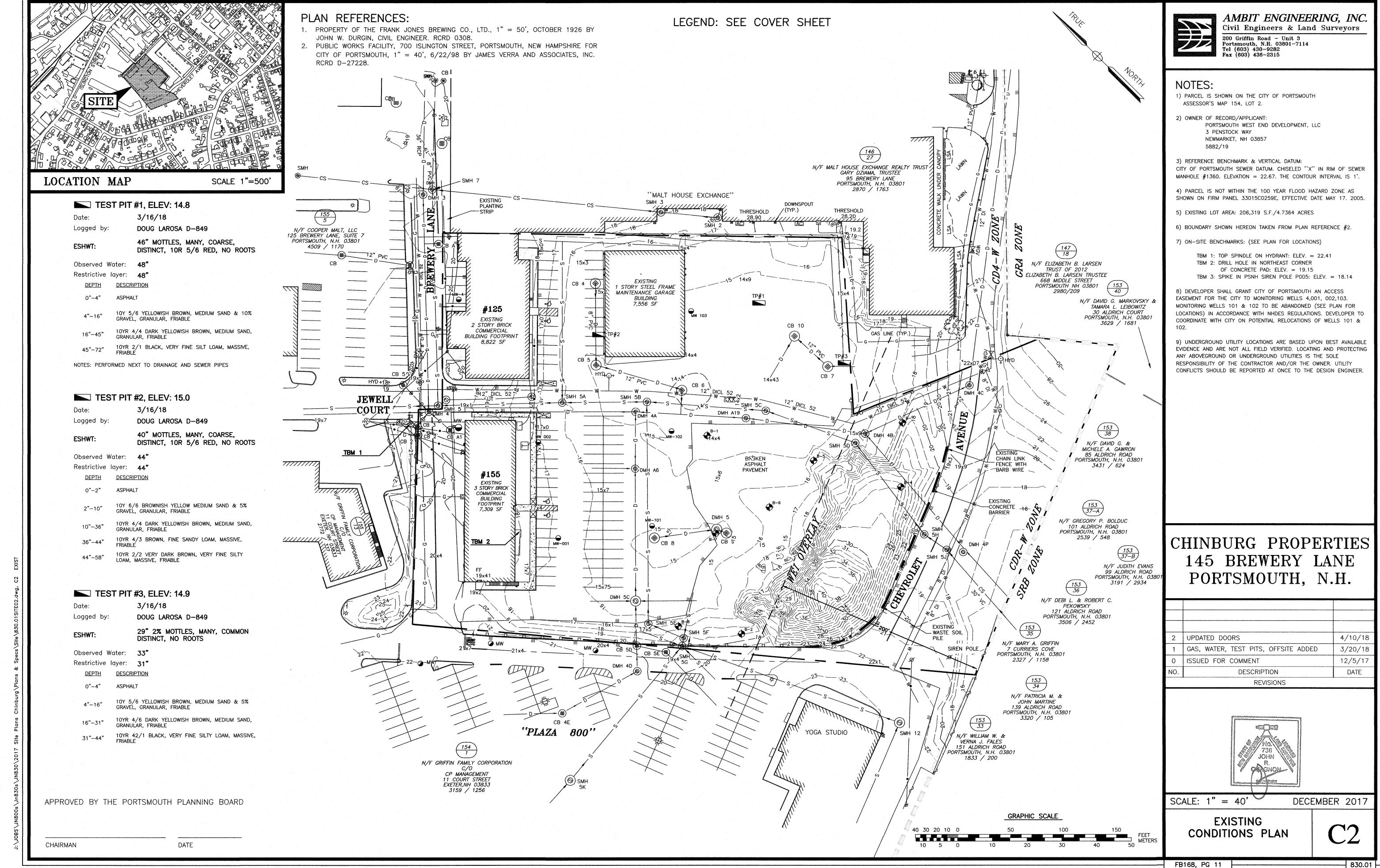
DATE



830.01

FB168, PG 11





DRAIN :	STRU	CTURE T	ABLE	1
STRUCTURE	RIM ELEV.	INV. ELEV. IN	SUMP INV.	DOWN STREAM
SINGOTORE	MINI LLLY.	INV. ELEV. OUT	ELEV.	STRUCT URE
PIPE	PIPE LENGT	TH, PIPE SLOPE		
CB 4E	20.56	10.90		טארו אט
OD TE	20.30	10.15 (18" RCP)		DMH 4D
(D1) 18" RCP	L = 81 L.	F., SLOPE = $.0019$	ft./ft.	
DMH 4D	20.12	10.00 (18" RCP)		CB 5D
י טיי חואוט	20.12	10.18 (18" RCP)	_	CB 20
(D2) 18" 4D	L = 25 L.	F., SLOPE = 0.003	ft./ft.	
CB 5E	19.34	_	47.04	00.50
CB JE	19.54	15.57 (12" RCP)	13.64	CB 5D
(D3) 12" PVC	L = 28', S	SLOPE = 0.008 ft./	ft.	
		15.29 (12"RCP)		5,41, 50
CB 5D	19.63	10.11 (18"RCP)	7.73	DMH 5C PDMH1
6)		10.24 (18"RCP)		
(D4) 18" HDPE	L = 37 L.	F., SLOPE = 0.01 f	t./ft.	
		9.63 (18" RCP) 11.49 (12" CPP)		
DMH 5C	15.55	10.97 (12" CPP)		DMH A6
		9.37 (24" RCP)		-
(D5) 24" RCP	L = 126±	L.F., SLOPE $= 0.00$	015 ft./ft.	-
DMH A6	15.35	11.25 24" RCP		DMH 4A
	10.00	8.50 (24" RCP)		DWIII 4A
(D6) 24" RCP	L = 44 L.f	F., SLOPE = 0.002	FT./FT.	
D.U.I. 40	00.54	14.20 36" RCP		
DMH 4C	22.51	14.33 36" RCP	7	DMH 4B
07A) 36" RCP	L = 108 L	.F., SLOPE = 0.054	4 ft./ft.	· · · · · · · · · · · · · · · · · · ·
DMB 4D	17.10	30" RCP	7.00	DMI 45
DMH 4P	17.19	30" RCP	7.00	DMH 4B

\(\dot\)

9.94 (12" RCP)

10.01 (12" RCP)

12.55 (8" AC)

6.47 (12" W)

8.73 (8" RCP)

REMOVED (12")

14.51 12" PVC

12.22 (12" PVC)

= 55 L.F., SLOPE = 0.111 ft./ft.

L = 3 L.F., SLOPE = 0.276 ft./ft.

7.80 DMH 5

UNK

CB 10

9.31

(PLUGGED)

(014) 12" RCP

(015) 12" RCP

(016) 8" AC

DMH 5

CB 7

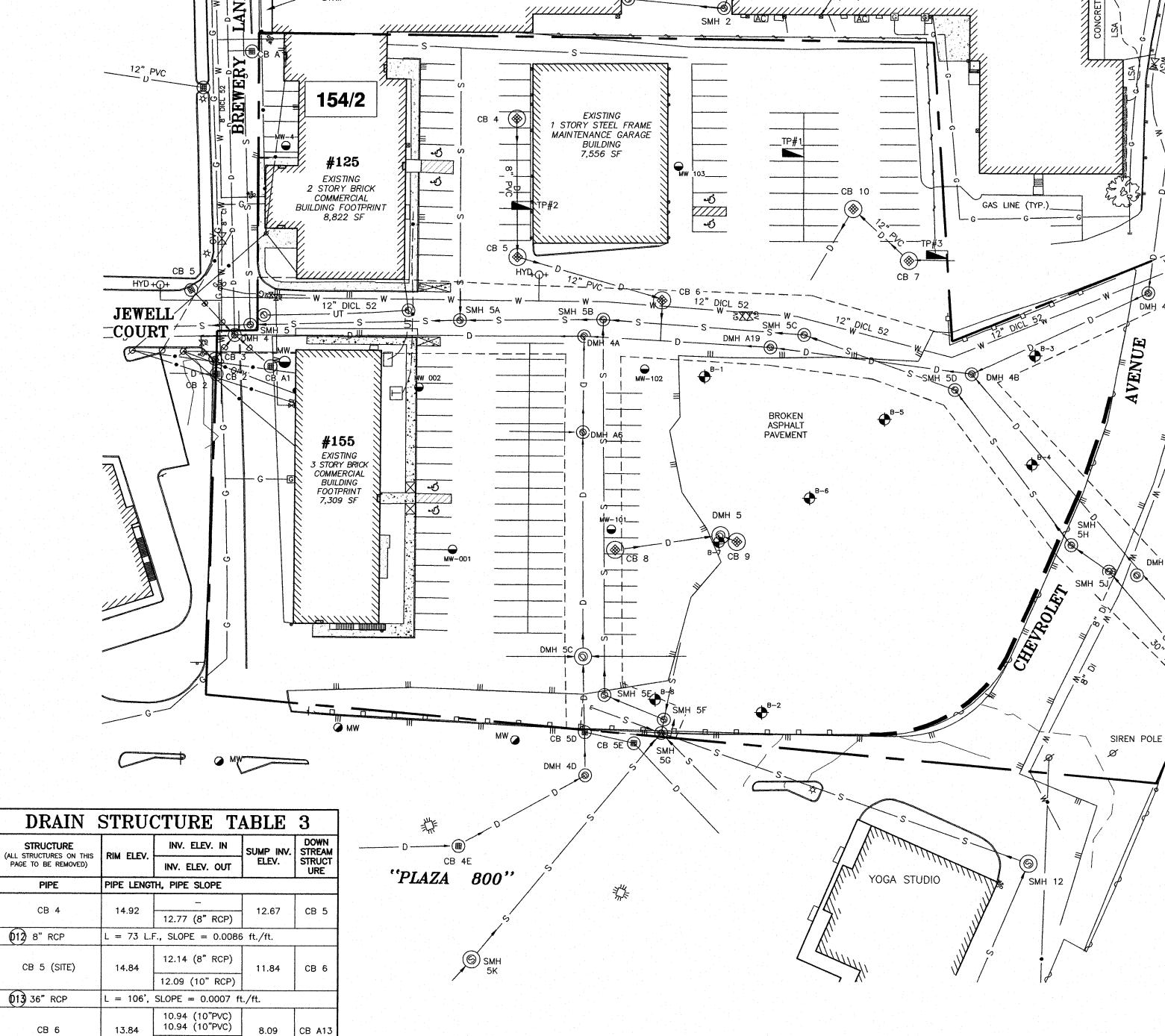
CB 10

PLANTING

DRAIN	STRU	CTURE TA	ABLE	2	
STRUCTURE	RIM ELEV.	INV. ELEV. IN	SUMP INV.		
		INV. ELEV. OUT	ELEV.	STRUCT	
PIPE	PIPE LENGT	IPE LENGTH, PIPE SLOPE			
(07B) 30" RCP	L = 114 L	.F., SLOPE = UNKN	IOWN		
DMH 4B	16.55	8.25 (36" RCP) 8.80 (30" RCP)	_	DMH A19	
		7.95 (36" RCP)		AIS	
(D8) 36" RCP	L = 106',	SLOPE = 0.0028 f	t./ft.		
DMH A19	14.52	8.18 (36"RCP) 10.92 (12"CPP)		DMH 4	
	(16.12)	8.17 (36" RCP)		D.W. 17	
(D9) 36" RCP	L = 195 L	.F., SLOPE = 0.01	ft./ft.		
DMH 4A	14.75 (16.37)	7.87 (36" RCP) 8.40 (24" RCP)	_	DMH 4	
	(10.37)	7.87 (36" RCP)			
(010) 36" RCP	L = 186 L	.F., SLOPE = 0.005	ft./ft.		
CB 5 JEWELL CT	19.15	12.95 (12" RCP) 30' S=? ft./ft.	_	DMH 4	
CB 2	19.38	16.78 8" PVC	16.58	. –	
CB 3	19.36	14.86 12" CCP	12.16	DMH 4	
CB A1	19.36	PS (12" RCP) 17' S=UNK		DMH 4	
DMH 3	18.83	11.55 (24" RCP)		DMH 4	
		11.50 (30" RCP)			
(01) 30" RCP	L = 196 L	.F., SLOPE = 0.021	ft./ft.		
DMH 4	19.66	13.34 (12" SE) 13.20 (12" SW) 13.46 (12" NW) 7.35 (30" RCP) 6.94 (36" RCP)		D MH1	
2 H H III		6.93 (42" RCP) EVATION, XXX = NE			

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN DATE



40 30 20 10 0

FEET METERS

"MALT HOUSE EXCHANGE"

DOWNSPOUT

16.04 6.13 (8" PVC) FROM (N) 5.63 (15" PVC) TO SMH 5 (S2) 15" PVC L= 80 L.F., SLOPE= 0 ft./ft. 14.45 (15" PVC) 6.12 (12" PVC) FROM SMH 5C FROM SMH 5E (16.62) 5.70 (15" PVC) TO SMH 5A (S3) 15" PVC L= 113 L.F., SLOPE= 0.0005 ft./fr. 14.47 6.17 (15" PVC) FROM SMH 5D (15.73) 5.76 (15" PVC) TO SMH 5B LEGEND: SEE COVER SHEET L= 90 L.F., SLOPE= 0.0022 ft./ft. (S4) 15" PVC 6.37 (15" PVC) FROM SMH 5H 6.37 (15" PVC) TO SMH 5C (S5) 15" PVC L= 36 L.F., SLOPE= 0.0005 ft./ft. FROM SMH 5F SMH 5E 16.29 7.98 TO SMH 5B (**S6**) 12" PVC L= 210 L.F., SLOPE=0.0089 (TO BE FILLED) GRAPHIC SCALE

SEWER STRUCTURE TABLE 1

STRUCTURE

FROM/TO

FROM SMH5A

FROM SHM (N)

TO SMH (W)

FROM SMH 5G

RIM INV. ELEV. INV. ELEV. OUT INV. ELEV. IN

19.67 | 5.15 (18" PVC)

5.49 (15" PVC)

4.85 (24"PVC)

L= 112 L.F., SLOPE= 0.0013 ft./ft

5.70 (15" PVC)

13.75 (6" PVC)

9.07 (12" PVC) TO SMH 5E

19.48 9.22 (12' PVC)

(###) = ADJUSTED RIM ELEVATIONS

STRUCTURE

(\$1) 15" PVC

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

1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 154, LOT 2.

2) OWNER OF RECORD/APPLICANT: PORTSMOUTH WEST END DEVELOPERS, LLC 3 PENSTOCK WAY NEWMARKET, NH 03857

3) REFERENCE BENCHMARK & VERTICAL DATUM: CITY OF PORTSMOUTH SEWER DATUM. CHISELED "X" IN RIM OF SEWER MANHOLE #1360. ELEVATION = 22.67. THE CONTOUR INTERVAL IS 1'.

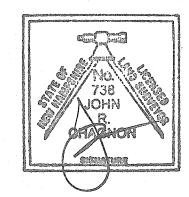
4) PARCEL IS NOT WITHIN THE 100 YEAR FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259E, EFFECTIVE DATE MAY 17. 2005.

5) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT ALL 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.

SEWER	STR	UCTURE	TABLE 2	
STRUCTURE	RIM	INV. ELEV. IN	PIPE SIZE	
SIROCIORE	ELEV.	INV. ELEV. OUT	& TYPE	
(\$7) 12" PVC	L= 36 L	L= 36 L.F., SLOPE= 0.0256 ft./ft.		
SMH 5G	19.46	10.54 (8"CLAY) 10.24 (8" PVC) 10.17 (18"PVC) 13.23 (12"PVC)	(CAP) 8" PVC (E) SMH 5K (SW) (CAP)	
		9.36 (12" PVC)	TO SMH 5F	
(S8) 12" PVC	L= 8 L.F	., SLOPE= 0.0039	9 ft./ft.	
SMH 5H	18.10	10.40 (12"PVC)	FROM SMH 5J	
эмп эп	18.10	10.50 (15"PVC)	TO SMH 5D	
(\$9) 12" PVC	L= 108	L.F., SLOPE= 0.03	382 ft./ft.	
SMH 5J	17.94	10.62 (12" CV)	FROM OFF SITE	
SMILL OF	17.94	10.76 (12"PVC)	TO SMH 5H	
(\$10) 12" PVC	L= 26 L.F., SLOPE= 0.0138 ft./ft.			

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

2	ADDED TEST PITS, PIPE CALLOUTS	3/20/18		
1	DRAINAGE INVERTS	2/12/18		
0	ISSUED FOR COMMENT	12/5/17		
NO.	DESCRIPTION	DATE		
REVISIONS				



SCALE: 1" = 40'

DECEMBER 2017

EXISTING UTILITIES PLAN

FB168, PG 11

b) ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTORS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF—SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL COORDINATE REMOVAL, RELOCATION, DISPOSAL, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.

c) ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/
DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL EXISTING
CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

d) THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.

e) SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.

f) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL THE PERMIT APPROVALS.

g) THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL CONSTRUCTION PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR ANY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL AND OFF—SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.

h) THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE, UTILITIES, VEGETATION, PAVEMENT, AND CONTAMINATED SOIL WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ANY EXISTING DOMESTIC / IRRIGATION SERVICE WELLS IN THE PROJECT AREA IDENTIFIED DURING THE CONSTRUCTION AND NOT CALLED OUT ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR PROPER CAPPING / RE—USE. ANY EXISTING MONITORING WELLS IN THE PROJECT AREA IDENTIFIED DURING THE CONSTRUCTION AND NOT CALLED OUT ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER TO COORDINATE MONITORING WELL REMOVAL AND/OR RELOCATION WITH NHDES AND OTHER AUTHORITY WITH JURISDICTION PRIOR TO CONSTRUCTION.

i) ALL WORK WITHIN THE CITY OF PORTSMOUTH RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS (DPW).

j) REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR
SHALL GRUB AND REMOVE ALL SLUMPS WITHIN LIMITS OF WORK AND DISPOSE OF
OFF—SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

k) CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED, THE CONTRACTOR SHALL EMPLOY A NH LICENSED LAND SURVEYOR TO REPLACE THEM.

I) PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE HIGH FLOW SILT SACK BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF WARRANTED OR FABRIC BECOMES CLOGGED. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.

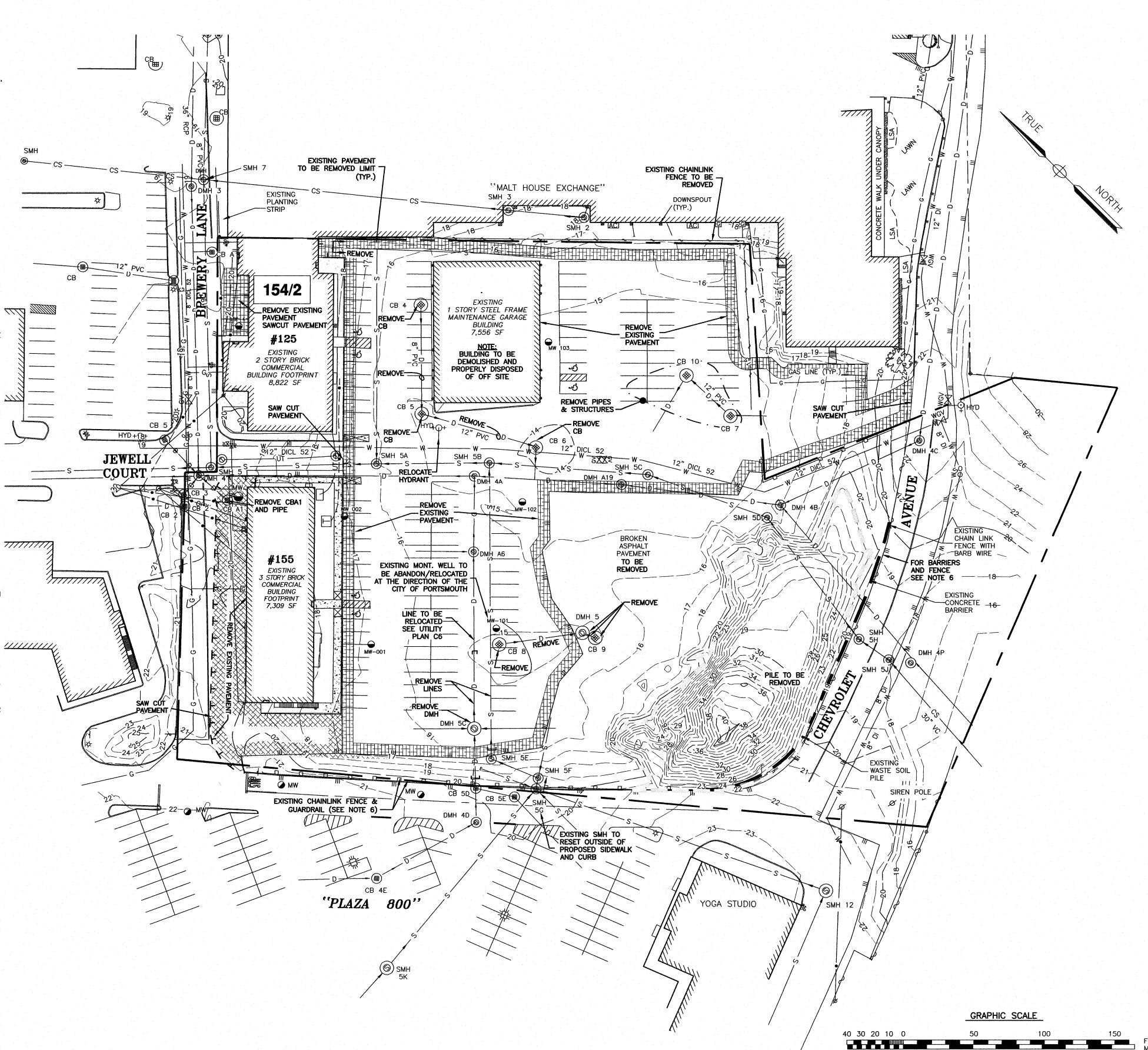
m) THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFELY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.

n) ANY CONTAMINATED MATERIAL REMOVED DURING THE COURSE OF THE WORK WILL REQUIRE HANDLING IN ACCORDANCE WITH NHDES REGULATIONS. CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN IN PLACE, AND COMPLY WITH ALL APPLICABLE PERMITS, APPROVALS, AUTHORIZATIONS, AND REGULATIONS

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE





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).

4) EXISTING UTILITY CONNECTIONS SHALL BE ABANDONED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. UTILITIES THAT ARE TO BE REUSED SHALL BE CUT & CAPPED.

5) CONTRACTOR WILL COORDINATE STREET CLOSINGS, IF ANY, WITH CITY OF PORTSMOUTH.

6) EXISTING FENCING MAY BE UTILIZED FOR SITE FENCING DURING CONSTRUCTION, IF FENCE IS REMOVED PRIOR TO CONSTRUCTION, TEMPORARY FENCING SHALL BE INSTALLED, AS REQUIRED, TO PROTECT THE SITE FROM THE PUBLIC.

7) COORDINATE DEMOLITION WITH CITY OF PORTSMOUTH, PERMITS REQUIRED. PROVIDE TEMPORARY DRAINAGE STRUCTURES, AS REQUIRED, TO KEEP SITE FROM FLOODING DURING CONSTRUCTION.

8) THE APPLICANT SHALL WORK WITH THE CITY'S LEGAL AND PLANNING DEPARTMENTS TO PREPARE A CONSTRUCTION MANAGEMENT AND MITIGATION PLAN AND, SCHEDULE A MEETING TO DISCUSS TIMING AND PHASING OF PROJECTS.

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

3	CB1A AND PIPE	4/10/18
2	SIDEWALK, WATER, NOTES	3/20/18
1	DEMOLITION NOTES	2/12/18
0	ISSUED FOR COMMENT	12/5/17
NO.	DESCRIPTION	DATE
	REVISIONS	



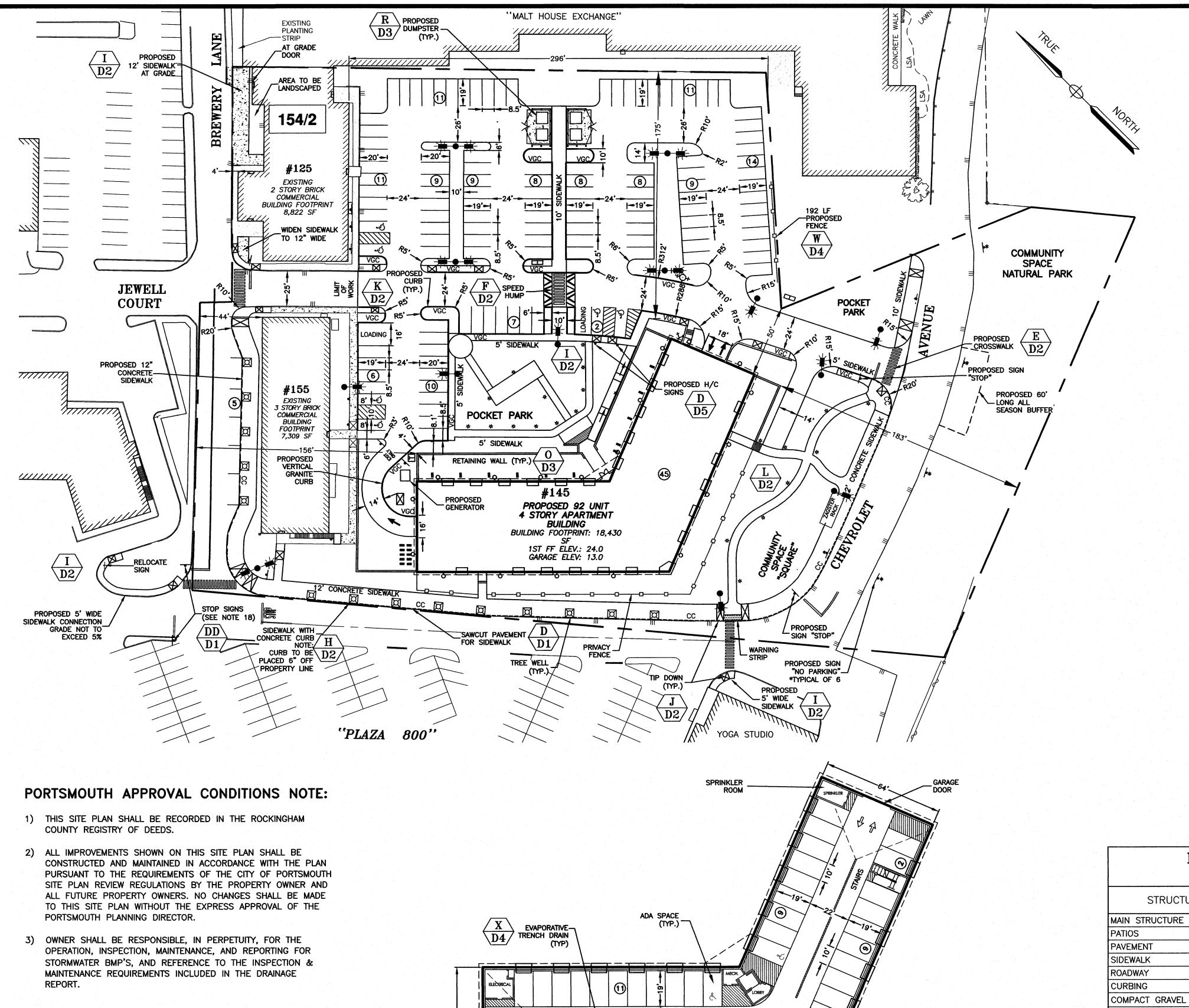
SCALE: 1" = 40

DECEMBER 2017

DEMOLITION PLAN

 \mathbb{C}^2

FB168, PG 11



-- 10' --

GARAGE LEVEL PARKING PLAN

SCALE: 1"=30'

APPROVED BY THE PORTSMOUTH PLANNING BOARD

DATE

CHAIRMAN

TOTAL GARAGE

PARKING SPACES: 45 SPACES (2 ADA)

CONDITIONS PRECEDENT TO BUILDING PERMIT APPROVAL:

- A) THE DEVELOPER SHALL CONTACT NHDES TO REVIEW PROPOSED IMPACTS TO THE EXISTING MONITORING WELLS AS A RESULT OF THE PROPOSED CONSTRUCTION AND SECURE A WRITTEN DECISION/APPROVAL FOR SITE PLAN AS IT RELATES TO THE MONITORING WELLS. DEVELOPER SHALL BE RESPONSIBLE FOR ANY RELOCATION, ADJUSTMENT, OR ABANDONMENT OF ANY OF THE WELLS AS APPROVED BY NHDES.
- B) THE DEVELOPER SHALL PROVIDE AN ACCESS EASEMENT TO THE CITY TO CONTINUE TO SAMPLE THE MONITORING WELLS.
- C) THE DEVELOPER SHALL COORDINATE WITH NHDES TO SECURE ANY NECESSARY APPROVALS/PERMITS FOR REMOVAL/DISTURBANCE OF SOIL ON THE SITE WITHIN THE GROUNDWATER MANAGEMENT ZONE AND DOCUMENTATION OF THESE APPROVALS SHALL BE PROVIDED TO THE CITY

ZONING DEVELOPMENT STANDARD

CD4-W: CHARACTER DISTRICT 4-WEST END

BUILDING PLACEMENT (PRINCIPLE):

BUILDING PLACEMENT (PR	inciple):		
	REQUIRED	EXISTING	PROPOSED
MAX. PRINCIPLE FRONT YARD:	10 FEET	4.2 FEET	NA NA
MAX. SECONDARY FRONT YD:	15 FEET	0 FEET	NA
MIN. SIDE YARD:	5 FEET	O FEET	NA
MIN. REAR YARD*:	5 FEET	302 FEET	NA
 FRONT LOT LINE BUILDOUT:	50%	73.8%	NA:
 INCENTIVE OVERLAY DISTR	ICT		
MAX. BUILDING COVERAGE:	80%	8.6%	15.5%

MAX. BUILDING COVERAGE:	80%	8.6%	15.5%
MAX. BUILDING FOOTPRINT:	20,000 SF	23,549 SF	18,430 SF
MIN. LOT AREA:	2,000 SF	NA ^t	NA ^t
MAX. BUILDING HEIGHT:	+1 STORY UP TO 10'	3 STORIES	4 STORIES

ALLOWED BUILDING TYPES: APARTMENT
ALLOWED FACADE TYPES: PORCH, STOOP, STEP

BUILDING FORM:			
	REQUIRED	EXISTING	PROPOSED
MAX STRUCTURE HEIGHT:	55 FT ^y		49'–11" ^y
MAX. FINISHED FLOOR SURFACE OF GROUND FLOOR ABOVE SIDEWALK GRADE:	36 INCHES	 .	24 INCHES
MIN. GROUND STORY HEIGHT:	12 FEET		12 FEET
FACADE GLAZING (WINDOW/PERIMETER):	20-50%	-	TO COMPLY

ROOF TYPE ALLOWED: FLAT

BUILDING TYPES:

UILDING BLOCK:	200 FEET	152 FEET	N/A
MOD. LENGTH:	80 FEET	-	N/A
RANCE SPACING:	50 FEET	-	N/A
ACE COVERAGE:	15%	12.3%	38.7%
GROUND FLOOR GFA/USET:	15,000 SF	8,822 SF	18,430 SF***
	GROUND FLOOR	ACE COVERAGE: 15% GROUND FLOOR 15 000 SE	ACE COVERAGE: 15% 12.3% GROUND FLOOR 15 000 SE 8 822 SE

* REAR YARD: THE GREATER OF 5' FROM REAR LOT LINE OR 10' FROM CENTER LINE OF ALLEY.

** COMMUNITY SPACE IS AREA/206,319 X 100

*** BASED ON INCENTIVE OVERLAY DISTRICT MAX BUILDING FOOTPRINT IS

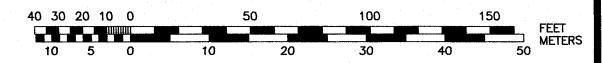
20,000 SF
t NO MINIMUM LOT AREA REQUIRED IN INCENTIVE OVERLAY DISTRICT
y 10' ADDITIONAL BUILDING HEIGHT ALLOWED IN INCENTIVE OVERLAY

IMPERVIOUS SURFACE AREAS

(TO PROPERTY LINE)

	(10) NOI ENTI LINE)	
STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (s.f.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)
MAIN STRUCTURE & DECKS	23,440	49,212
PATIOS	0	9880
PAVEMENT	75,248	53,878
SIDEWALK	3,125	20,519
ROADWAY	21,657	16,218
CURBING	205	144
COMPACT GRAVEL	47,905	0
TOTAL	171,580	149,851
LOT SIZE	206,319	206,319
% LOT COVERAGE	83.2%	72.6%

GRAPHIC SCALE





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

IOTES.

- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 154, LOT 2.
- 2) OWNER OF RECORD/APPLICANT:
 PORTSMOUTH WEST END DEVELOPMENT, LLC
 3 PENSTOCK WAY
 NEWMARKET, NH 03857
- 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
- 4) EXISTING LOT AREA: 206,319 S.F./4.7364 ACRES
- 5) THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE
- 6) VERTICAL DATUM IS MEAN SEA LEVEL NAVD88. BASIS OF VERTICAL DATUM IS NGS PID OC0290 B 2 1923.
- 7) PARCELS ARE LOCATED IN THE CHARACTER DISTRICT 4 W ZONING
- DISTRICT AND WEST END INCENTIVE OVERLAY DISTRICT (WEI OVERLAY)

 PROPOSED USE:

 BUILDING COVERAGE:

PROPOSED USE:

#125: 13,373 S.F. BUSINESS OFFICE

2,400 S.F. PROFESSIONAL OFFICE

2,400 S.F. PROFESSIONAL OFFICE

2,400 S.F. PROFESSIONAL OFFICE #145: 92 RESIDENTIAL UNITS #155: 9,117 S.F. BUSINESS OFFICE 5.892 S.F. YOGA STUDIO 30,782 S.F. TOTAL COMMERCIAL

18,430 S.F. FOOTPRINT

7,309 S.F. FOOTPRINT

34,561 S.F. TOTAL

BUILDING COVERAGE 34,561/206,319 S.F. X 100 = 16.8%

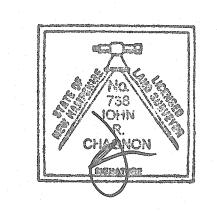
9) OPEN SPACE: PROPOSED OPEN SPACE: = 65,086 S.F. 65,086/206,319 S.F. = 31.5%

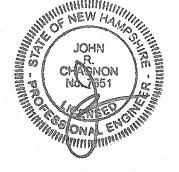
- 10) RETAINING WALLS WILL BE GRAVITY BLOCK (OR APPROVED EQUAL)
- 11) EXCESS SNOW SHALL BE TRUCKED OFF SITE, AND NOT DEPOSITED ON ANY CITY PROPERTY OR IN THE CONSERVATION EASEMENT AREA
- 12) REQUIRED PARKING COUNT PER SHARED PARKING ANALYSIS = 149 PARKING SPACES.

 MAXIMUM ALLOWABLE PARKING = REQUIRED X 120% = 178 SPACES
- 13) PROPOSED PARKING = 128 OUTSIDE SPACES + 45 UNDERGROUND GARAGE SPACES = 173 SPACES TOTAL
- 14) SEE SHEET D5 FOR SHARED PARKING CALCULATIONS DETAIL.
- 15) "NO PARKING" SHALL BE PAINTED ON THE DRIVEWAY BETWEEN #125 AND #155.
- 16) IMPROVEMENTS TO PLAZA 800 PROPERTY TO BE CONSTRUCTED BY CHINBURG PROPERTIES (PERMISSION TO ACCESS SUBJECT TO TERMS AND CONDITIONS TO BE OUTLINED IN THE CMMP.)
- 17) CATCH BASIN MAINTENANCE TO BE AGREED TO BY THE PARTIES.
- 18) REVISED STOP SIGNAGE AT BREWERY LANE & PLAZA 800 TO "STOP-4 WAYS" SIGNS TO COMPLY WITH MUTCD HEIGHT AND LOCATION REQUIREMENTS.

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

5	NOTES: 18, A-C, TREE GRATES	4/10/18
4	CROSSWALKS, TIP DOWNS, NOTES	4/3/18
2	SIDEWALK, BUFFER	3/20/18
1	LAYOUT	2/12/18
 0	ISSUED FOR COMMENT	12/5/17
NO.	DESCRIPTION	DATE
	REVISIONS	





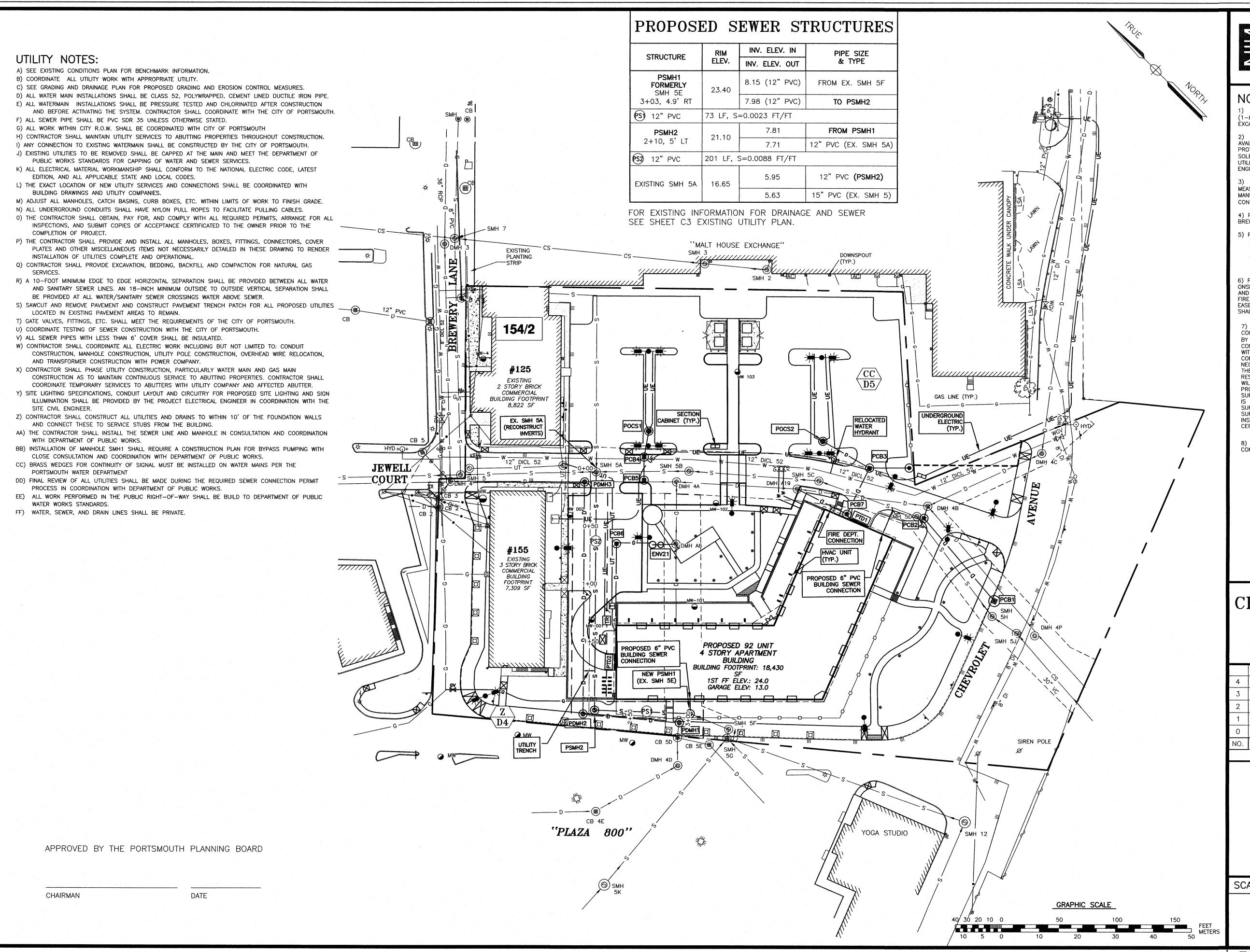
SCALE: 1" = 40'

DECEMBER 2017

SITE LAYOUT PLAN

C:

FB168, PG 11





AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors

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

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) PROVIDE A NEW FIRE ALARM MASTER BOX & KNOX BOX FOR 145 BREWERY LANE.

5) PROPOSED SEWER FLOW (ADDITIONAL)

2 BEDROOM & 1 BEDROOM UNITS

92 APARTMENTS x 2.33 RESIDENTS/APARTMENT = 214 RESIDENTS

214 RESIDENTS x 70 GPD/RESIDENT = 14,980 GPD

TOTAL PROPOSED FLOW = 14,980 GPD

NHDES SEWER DISCHARGE PERMIT REQUIRED.

6) PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL ONSITE FIRE HYDRANTS. HYDRANTS SHALL BE INSPECTED ANNUALLY AND AN INSPECTION REPORT FILED WITH THE PUBLIC WORKS AND FIRE DEPARTMENTS. THE NOTES ON THE SITE PLANS THAT REFER TO EASEMENTS FOR MAINTAINING THE WATER LINES AND SEWER LINES SHALL IDENTIFY THAT AS A PRIVATE LINE.

7) THE APPLICANT SHALL HAVE A COMMUNICATIONS SITE SURVEY CONDUCTED BY A MOTOROLA COMMUNICATIONS CARRIER APPROVED BY THE CITY'S COMMUNICATIONS DIVISION. THE RADIO COMMUNICATIONS CARRIER MUST BE FAMILIAR AND CONVERSANT WITH THE PORTSMOUTH POLICE AND FIRE RADIO SYSTEMS CONFIGURATION. IF THE SITE SURVEY INDICATES THAT IT IS NECESSARY TO INSTALL A SIGNAL REPEATER EITHER ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER WILL BE REQUIRED TO MAINTAIN ANY INSTALLED EQUIPMENT. THE PROPERTY OWNER SHALL BE RESPONSIBLE TO PAY FOR THE SITE SURVEY WHETHER OR NOT THE SURVEY INDICATES THAT EQUIPMENT IS NECESSARY. THE OWNER SHALL COORDINATE WITH THE SUPERVISOR OF RADIO COMMUNICATIONS FOR THE CITY. THE SURVEY SHALL BE COMPLETED AND ANY REQUIRED EQUIPMENT INSTALLED, TESTED, AND ACCEPTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

8) CONTRACTOR SHALL SUPPLY CERTIFICATES OF TESTING COMPLIANCE ON UNDERGROUND WATER PIPING.

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

	4	NOTES, UTILITIES	
	3	ADDED MONITORING WELLS, SMH TEXT	4/3/18
	2	LAYOUT	3/20/18
	1	LAYOUT, NOTES	2/12/18
1	0	ISSUED FOR APPROVAL	12/5/17
	NO.	DESCRIPTION	DATE



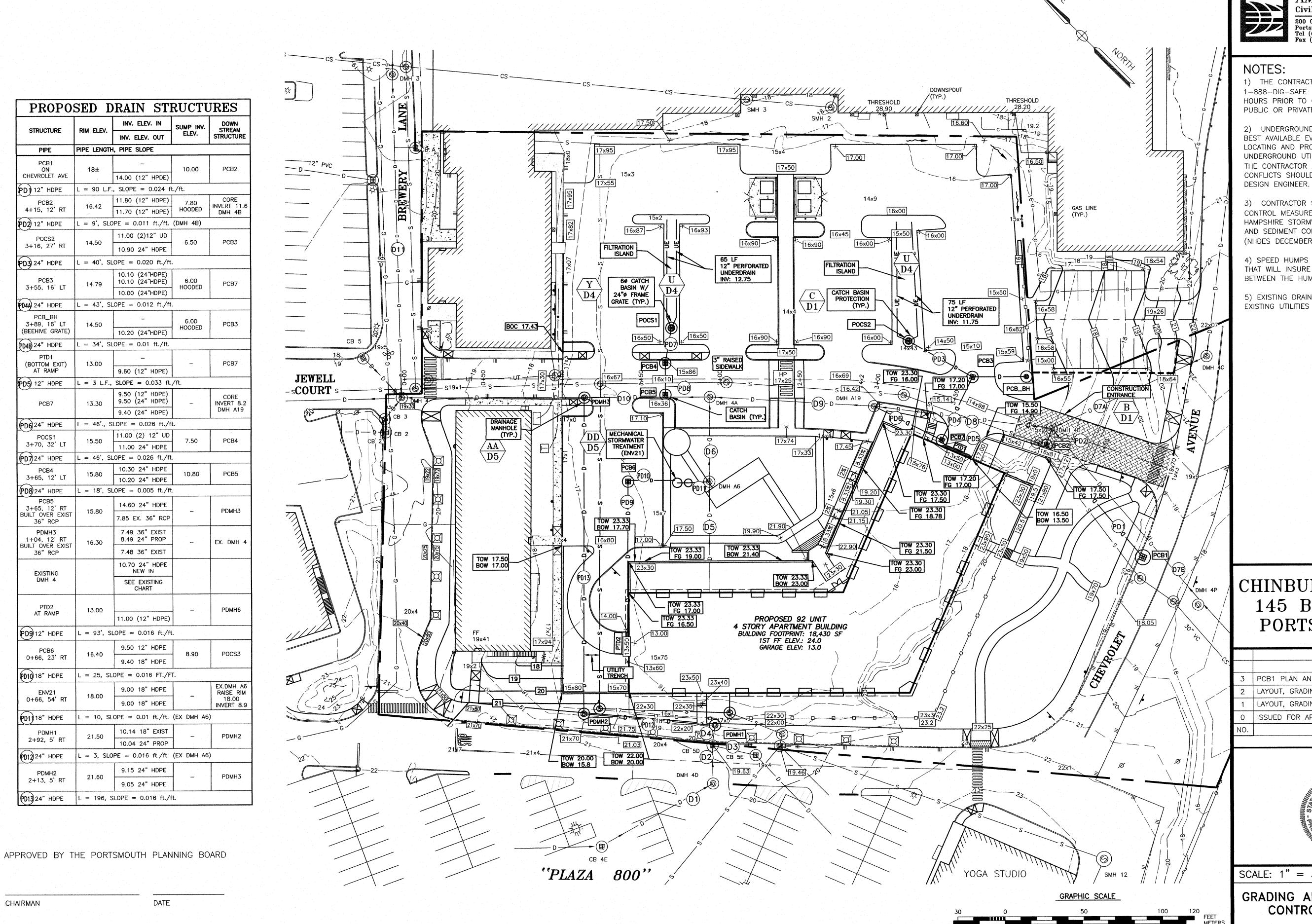
SCALE: 1" = 40'

DECEMBER 2017

UTILITY PLAN

C6

FB168, PG 11



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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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) SPEED HUMPS SHALL BE INSTALLED IN A MANNER THAT WILL INSURE THE FREE FLOW OF STORMWATER BETWEEN THE HUMP AND THE CURB LINE.

5) EXISTING DRAINAGE INVERTS CAN BE SEEN ON SHEET EXISTING UTILITIES PLAN - C3.

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

\mathcal{S}_{i}			
	3.	PCB1 PLAN AND TABLE	4/10/18
1	2	LAYOUT, GRADING	3/20/18
	1	LAYOUT, GRADING	2/12/18
	0	ISSUED FOR APPROVAL	12/5/17
	NO.	DESCRIPTION	DATE
		REVISIONS	



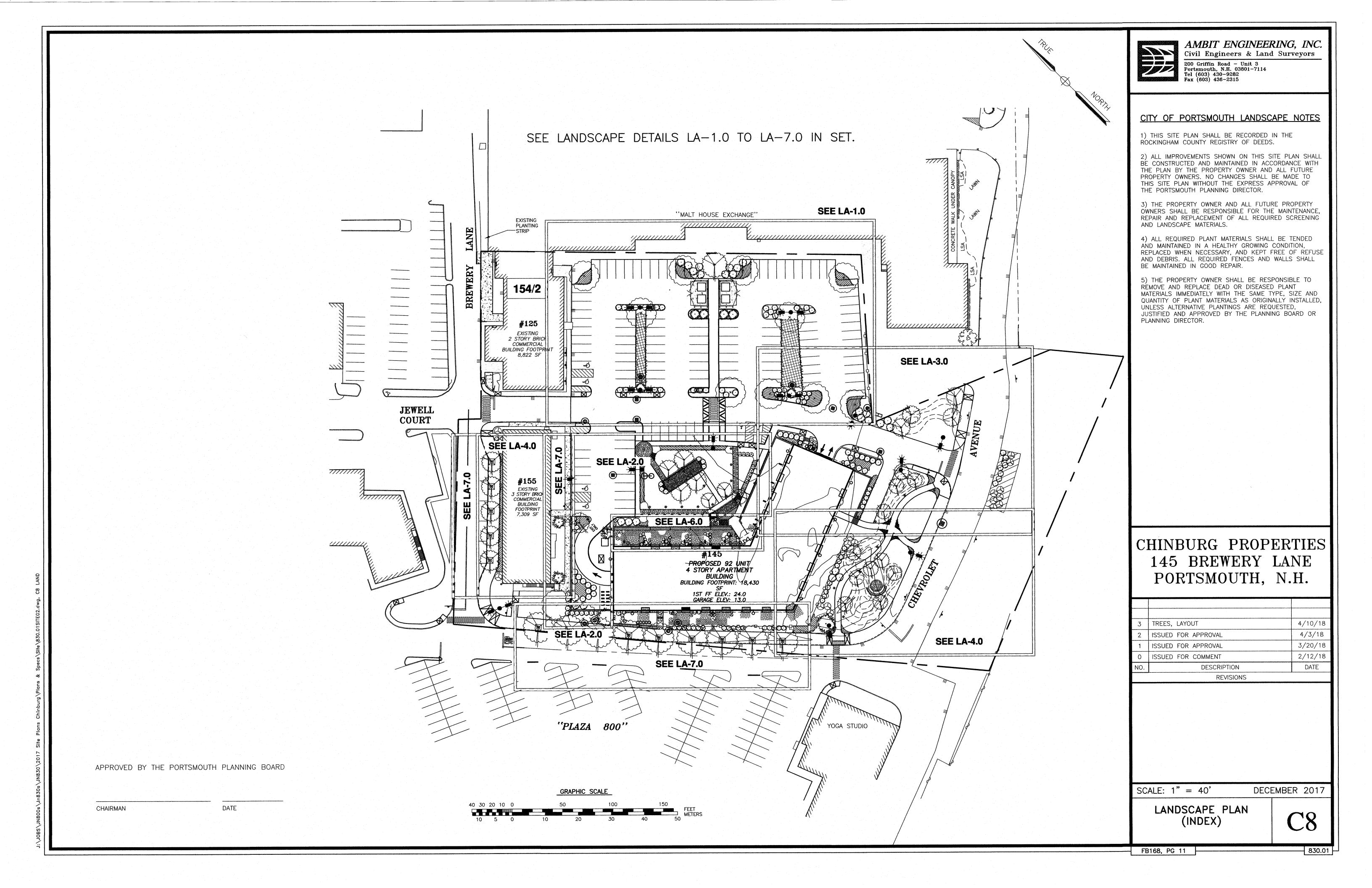
SCALE: 1" = 30'

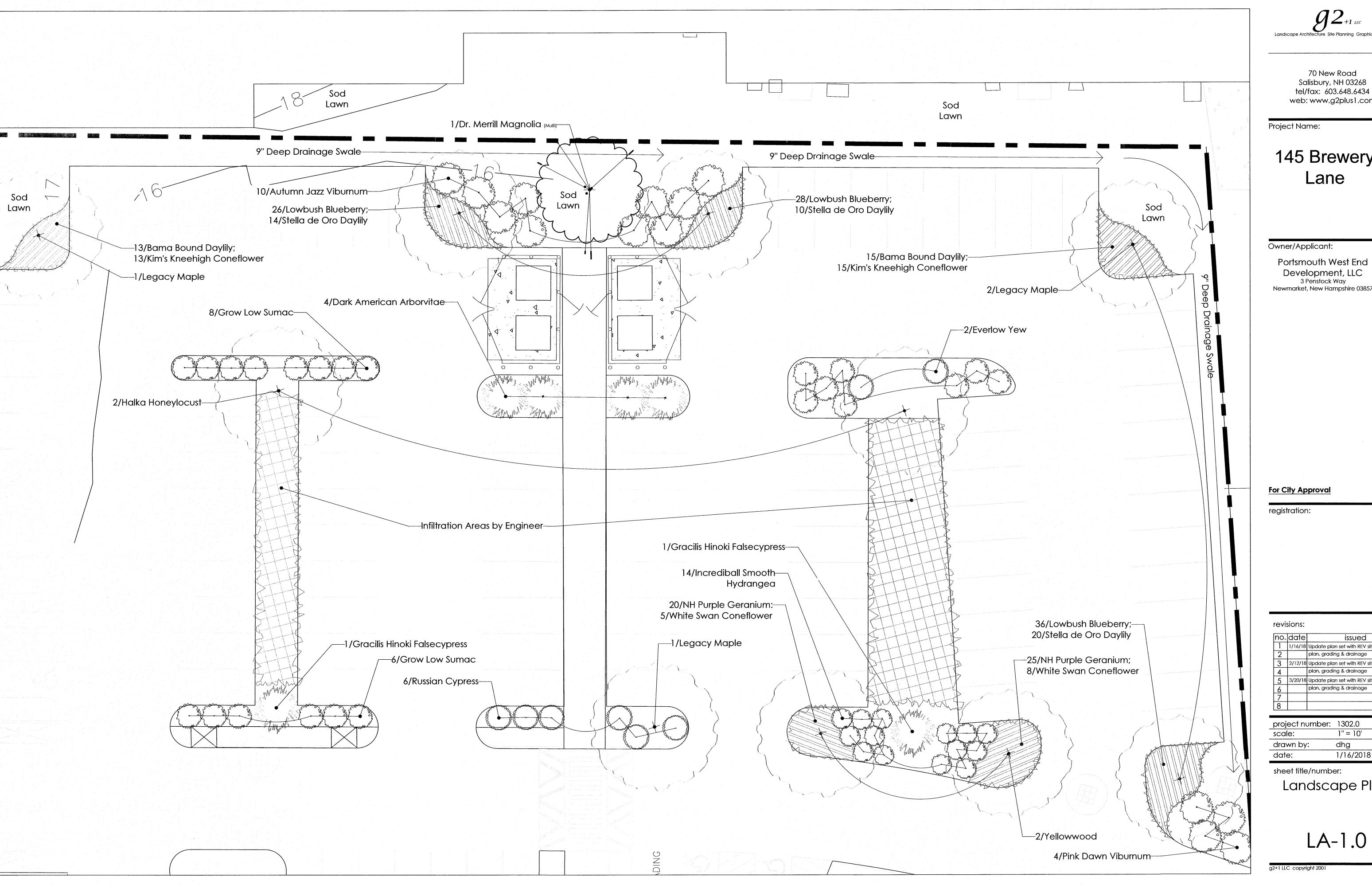
DECEMBER 2017

GRADING AND EROSION CONTROL PLAN

FB168, PG 11

-| 830.01 |





70 New Road Salisbury, NH 03268 tel/fax: 603.648.6434 web: www.g2plus1.com

145 Brewery Lane

Owner/Applicant:

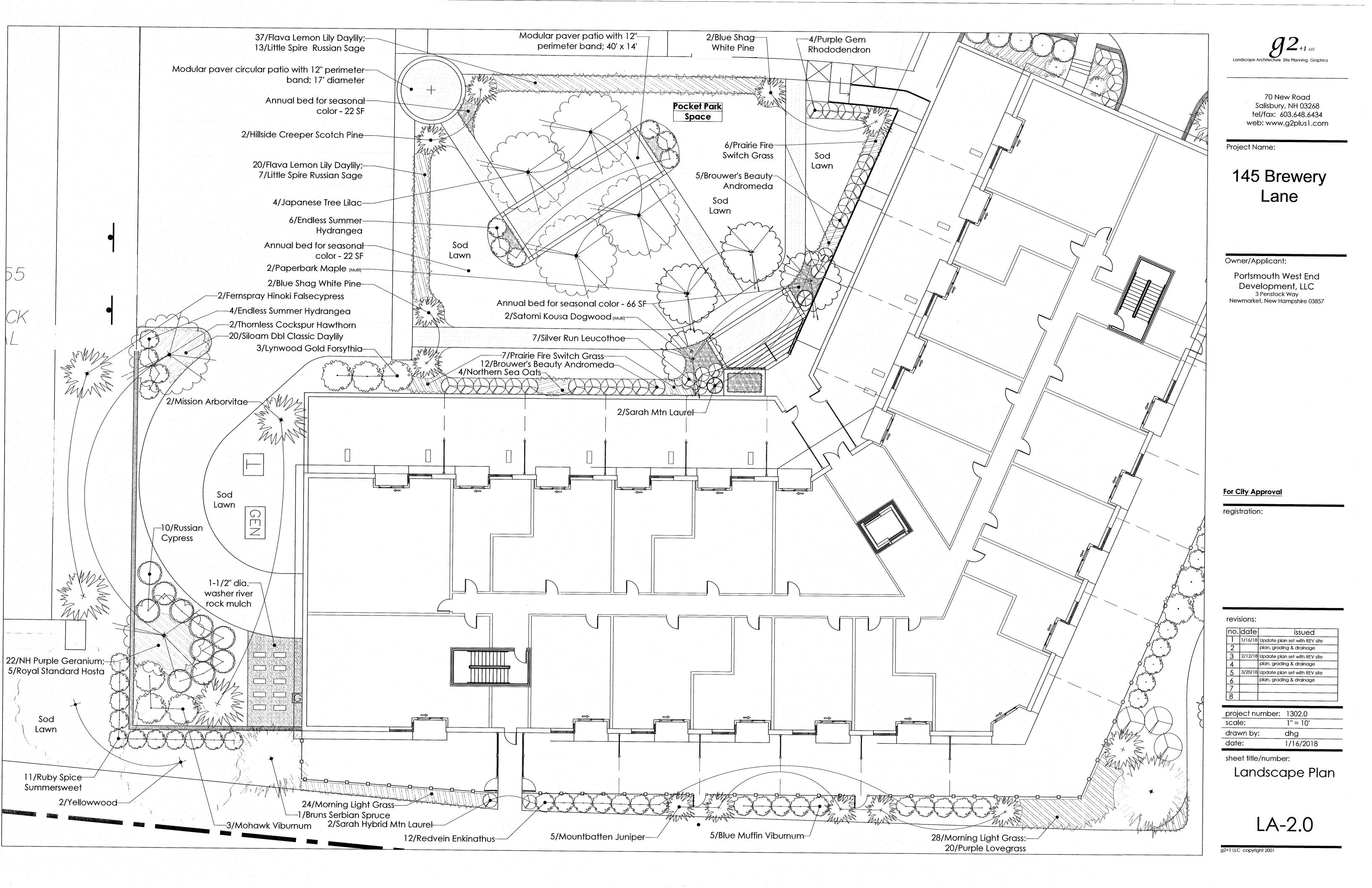
Portsmouth West End Development, LLC 3 Penstock Way Newmarket, New Hampshire 03857

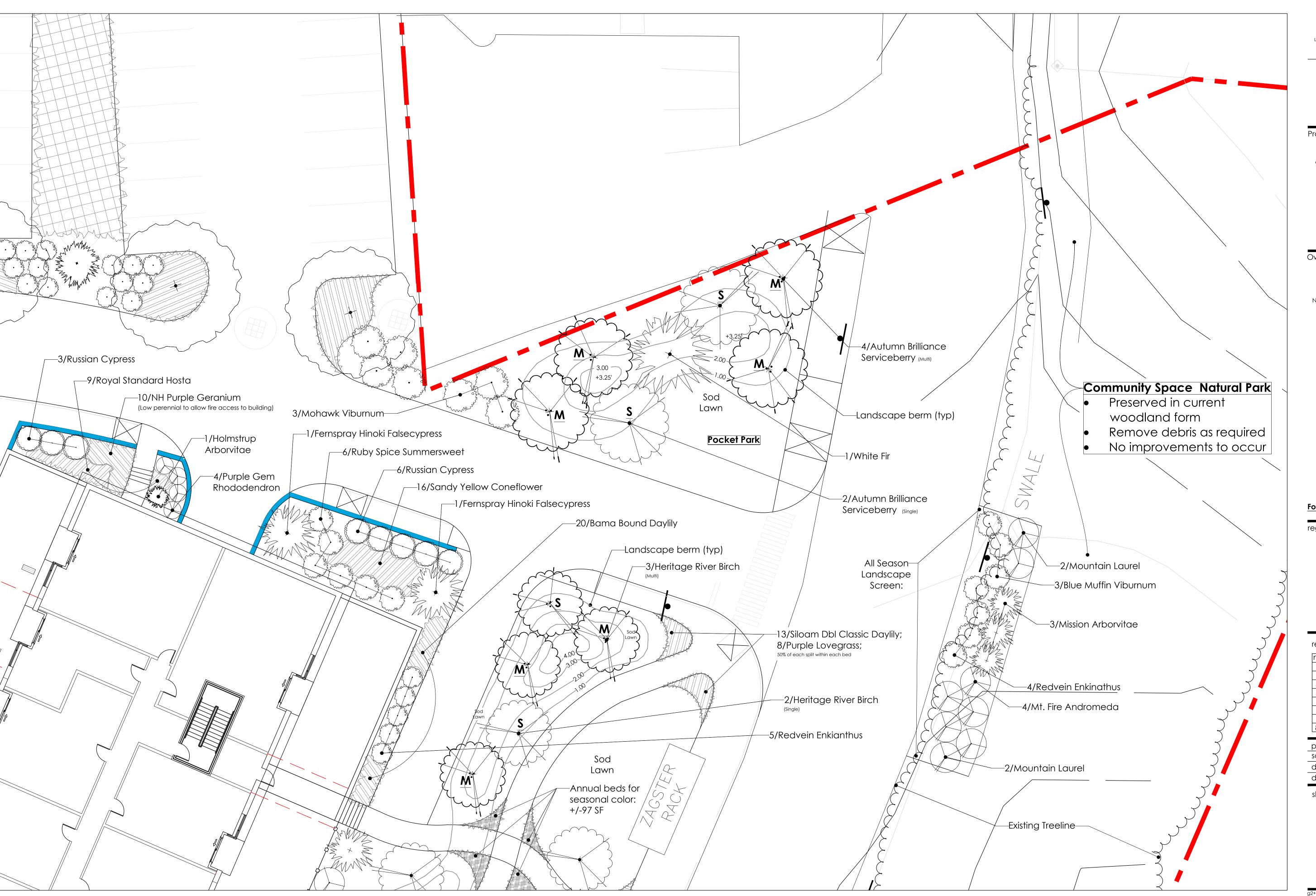
For City Approval

no.	date	issued
1	1/16/18	Update plan set with REV site
2		plan, grading & drainage
3	2/12/18	Update plan set with REV site
4		plan, grading & drainage
5	3/20/18	Update plan set with REV site
6		plan, grading & drainage
7		
Ω		

project number: 1302.0 1" = 10' dhg drawn by: 1/16/2018

sheet title/number: Landscape Plan







70 New Road Salisbury, NH 03268 tel/fax: 603.648.6434 web: www.g2plus1.com

Project Name:

145 Brewery Lane

Owner/Applicant:

Portsmouth West End
Development, LLC
3 Penstock Way
Newmarket, New Hampshire 03857

For City Approval

registration:

ev	isi	\cap	n	ς.

10.	aate	issued
1	1/16/18	Update plan set with REV site
2		plan, grading & drainage
3	2/12/18	Update plan set with REV site
4		plan, grading & drainage
5	3/20/18	Update plan set with REV site
6		plan, grading & drainage
7	4/10/18	Update plan set with REV site
8		plan, grading & drainage

 project number:
 1302.0

 scale:
 1" = 10'

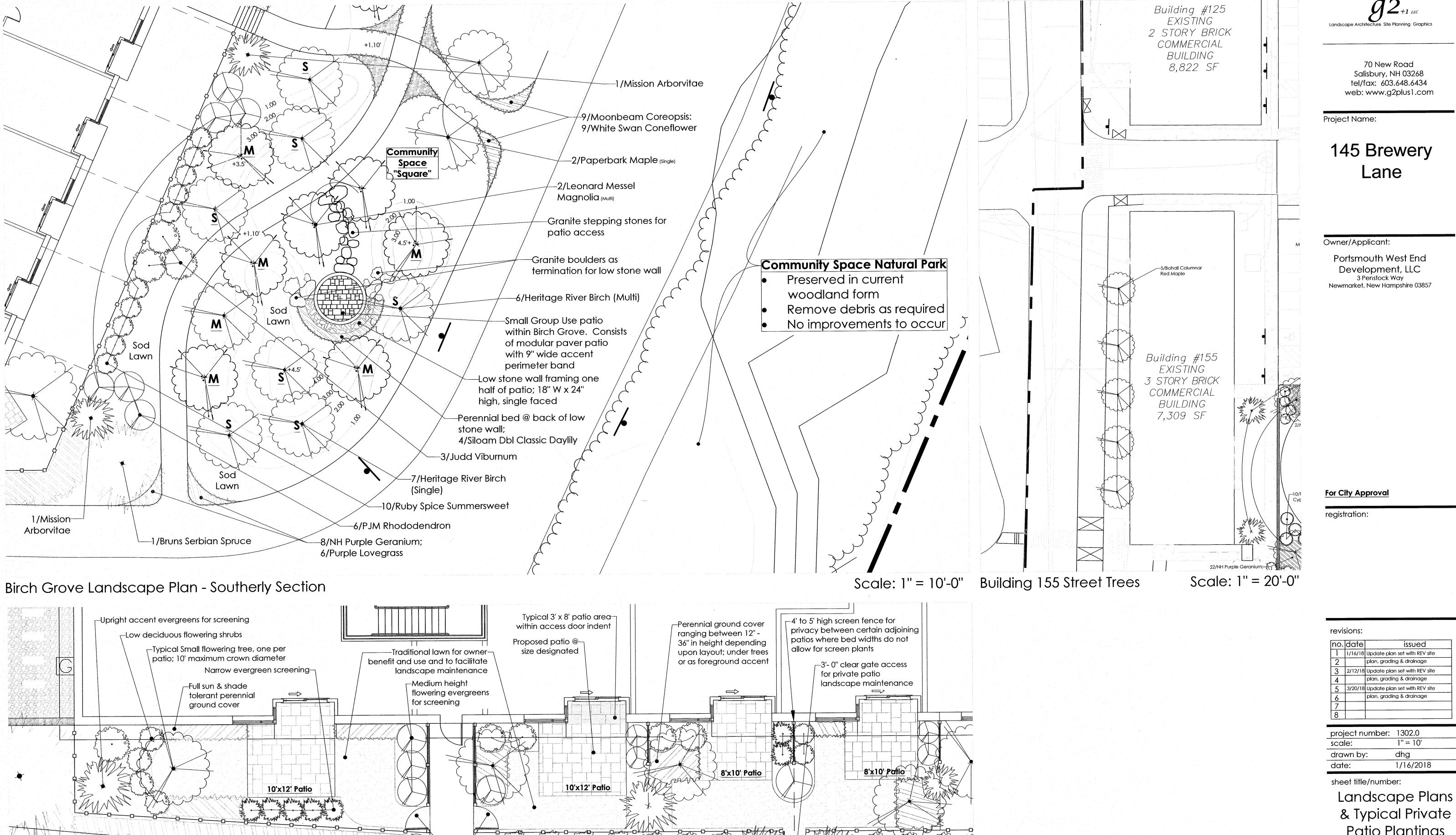
 drawn by:
 dhg

 date:
 1/16/2018

sheet title/number:

Landscape Plan

LA-3.0



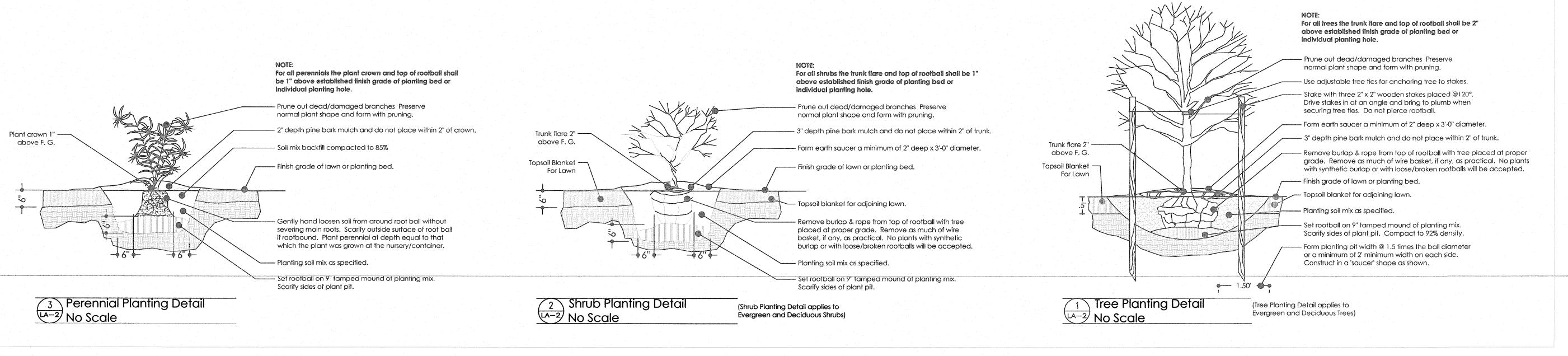
Typical Private Patio Landscape Treatment Detail - South Exposure

2'-6" wide Lawn panel & gates to provide easy patio

Scale: 1" = 6'-0"

Patio Plantings

LA-4.0



1.) All planting beds shall be mulched with a minimum of 3" of shredded pine bark mulch.

5.) All mass planted shrub beds and planters around building shall receive a minimum 18"

deep topsoil blanket to compensate for the very sandy/granular sub-grade material

expected on this site. Topsoil shall meet requirements as called out in specifications.

4.) All plant material to conform to current AAN, American Standard for Nursery Stock, ANSI Z60.1-2006.

2.) All sod and/or seeded lawn areas to have minimum 6" topsoil blanket.

3.) All native grass seeded areas to have minimum 4" topsoil blanket.

1/16/2001

dscape Architecture Site Planning Grap

70 New Road Salisbury, NH 03268 tel/fax: 603.648.6434 web: www.g2plus1.com

Project Name:

145 Brewery Lane

Owner/Applicant:

Portsmouth West End
Development, LLC
3 Penstock Way
Newmarket, New Hampshire 03857

Plant Schedule

Brewery Lane Landscape Revised: 2/12/2018 Portsmouth, New Hampshire Revised: 3/20/2018 **Habit of Growth** Sym Qty Common Name Cone Height Spread Installed Size Type Notes Botanical Name Large, Deciduous Trees YLW 4 Yellowwood Cladrastic kentukea 30-40' 30-40' 2-1/2" cal. B&B Fragrant pendulous flowers, grey bark 40' 40' 2-1/2" cal. B&B tough 2 Halka Honeylocust Gleditsia triacanthos inermis 'halka' 3 | 50-60' | 35-40' | 2-1/2" cal. | B&B | hardy, vigorous Legacy Sugar Maple Acer saccharinum 'legacy' ht. B&B Creamy white bark, very hardy HRB.M 9 Heritage River Birch - MULTI Betula nigra 'heritage' 40-70' 20-30' 10' HRB.S 9 Heritage River Birch - SINGLE 40-70' 20-30' 3" cal. B&B Creamy white bark, very hardy Betula nigra 'heritage' 5 Bohall Red Maple 40-60' 10-15' 2-1/2" cal. B&B Columnar form, street tree tolerant. Red-yellow color Acer rubrum 'bohall' Small, Accent Flowering Trees 4 Autumn Brilliance Serviceberry - MULTI Amelanchier grandiflora 'autumn brillian' 4 | 25' | 15-20' | 7'-8' ht. | B&B | clump, shade tolerant, gray bark, white flowers 2 Autumn Brilliance Serviceberry - SINGLE | Amelanchier grandiflora 'autumn brillian' 4 | 25' | 15-20' | 3" cal. B&B shade tolerant, gray bark, white flowers 3 | 20-30' | 15-25' | 2-1/2" cal. | B&B | tough, full sun 4 Japanese Tree Lilac Syringa reticulata 5 | 15-20' | 10-15' | 8'-10' ht. | B&B | Reddish purple fall foliage, exfoliating bark 2 Satomi Kousa Dogwood- MULTI Cornus kousa 'satomi' TCH 2 Thornless Cockspur Hawthorn 3 | 15-20' | 20' | 2-1/2" cal. | B&B | low branched, red fruit Crataegus crusgalli inermis DMM 1 Dr. Merrill Magnolia - MULTI 3 | 20-25' | 25-30' | 8'-10' ht. | B&B | Large 3-4" flowers before leaves, Specimen Magnolia loebneri 'merrill' 15-20' 10-15' 8'-10' ht. B&B Vigorous/hardy, star like petal Leonard Messel Magnolia - MULTI 4 | 20-30' | 10-20' | 8'-10' ht. | B&B | Cinnamon exfoliating bark 4 Paperbark Maple - MULTI Acer griseum PBM 4 20-30' 10-20' 2-1/2" cal. B&B Cinnamon exfoliating bark 4 Paperbark Maple - SINGLE Acer griseum Evergreen Trees & Accent Evergreens 4 Dark American Arborvitae Thuja occidentalis 'nigra' 4 | 10-30' | 10-12' | 6'-7' ht. | B&B | columnar, wide base, shade tolerant 2 Bruns Serbian Spruce 4 20-30' 10-15' 10'-12' ht. B&B Pyramidal, specimen form, bluish-green Picea omorika 'Bruns' Thuia occidentalis 'holmstrup' HLMS 1 Holmstrup Arborvitae 2 10' 3-4' 3'-4' ht. B&B columnar, shade tolerant GHFC 2 Gracilis Hinoki Falsecypress 4 15-20' 6-8' 6'-7' ht. B&B Pyramidal, specimen form Chamaecyparis obtusa 'gracilis' 4 Fernspray Hinoki Falsecypress Chamaecyparis obtusa 'filicoides' 4 | 15-20' | 8-10' | 6'-7' ht. | B&B | Thick, curved dense fans of foliage CNCF 1 White Fir 3 | 30-50' | 15-30' | 6'-7' ht. | B&B | Soft blue green foliage Abies concolor MSA 7 Mission Arborvitae 3 10-15' 6-8' 6'-7' ht. B&B columnar, shade tolerant Thuja occidentalis 'techney' MTB 5 Mountbatten Juniper 4 15' 6' 6' ht. B&B columnar Juniperus chinensis 'mountbatten' Low, Evergreen Ground Cover BSGP 4 Blue Shag Pine 4-6' 5-7' 6 gal. | CTN | full sun, wetland Pinus strobus 'blue shag' gal. CTN part shade/shade, white/green/pink foliage 7 Silver Run Leucothoe Leucothoe fontanesiana 'silver run' 2-3' 3-4' 2 2 Ever-Low Yew 4 1.5' 4-6' 18"-24" spd. B&B Hardy, shade tolerant Taxus media 'ever-low' RSCP | 44 | Russian Cypress Microbiata decussata 2 1-2' 4-5' 18"-24" spd. CTN Sun and shade, arborvitae like foliage HSCP 2 Hillside Creeper Scotch Pine 3 1-2' 6-8' 3' spd. B&B Pinus sylvestris 'hillside creeper' Accent/Flowering Evergreen Shrubs MTL.4 4 Sarah Hybrid Mountain Laurel Kalmia latifolia 'sarah' 3-1/2' 3-1/2' 5 gal. | CTN | Small Accent 6 PJM Rhododendron 6-8' 6' 3'-3 1/2' ht. B&B full sun, hardy Rhododendron 'PJM' 8 Purple Gem Rhododendron Rhododendron 'Purple gem' 4' 18"-24" spd. CTN full sun, hardy, low 5 5' 5' 2'-3' ht. B&B Dense & compact, buds purplish/red buds in winter Pieris 'brouwer's beauty' 17 Brouwer's Beauty Andromeda MFA 4 Mountain Fire Andromeda Pieris japonica 'mountain fire' 5 9-12' 6-8' 7 gal. CTN Upright form, Pendulous white flowers MTL 4 Mountain Laurel Kalmia latifolia 4 6-8' 6-8' 4'-5' ht. B&B sun/shade, Needs some shade from direct sun Deciduous Flowering Shrubs FLH-3 10 Endless Summer Hydrangea gal. | CTN | Sun, winter hardy 3-5' 3-5' 5 Hydrangea macrophylla 'blushing bride' 4 FLH-2 14 Incredibal Smooth Hydrangea gal. | CTN | Partial shade/summer color Hydrangea arborescens 'incrediball' 4-5' 4-5' 3 RSSMS | 27 | Ruby Spice Summersweet CTN Fragrant and compact, dense plant Clethra alnifolia 'ruby spice' 3 4-5' 4-5' 5 RVE 21 Redvein Enkianthus 4 8-10' 6-8' 4'-5' ht. B&B partial shade Enkianthus campanulatus

GLS	22	Grow Low Sumac	Rhus aromatica 'grow low'	3	2'	6'	2 gal.	CTN	Fragrant small yellow flowers, orange-red fall
LNGF	3	Lynwood Gold Forsythia	Forsythia 'lynwood gold'	4	6-8'	6-8'	4'-5' ht.	В&В	sun, hardy
VLA		Autumn Jazz Viburnum	Viburnum dentatum 'autumn jazz'	3	8-10'	6-8'	4'-5' ht.	в&в	Stunnning blue fruit, Improved native
PNKV	4	Pink Dawn Viburnum	Viburnum bodnantense 'pink dawn'	3	10'	7'	4'-5' ht.	в&в	Upright form
моч	6	Mohawk Viburnum	Viburnum burkwoodii 'mohawk'	4	6-8'	6-7'	3'-4' ht.	в&в	Hardy and fragrant
JUDD	3	Judd Viburnum	Viburnum dilatatum x juddii	4	6-8'	6-8'	4-5' ht.	в&в	red-veined leaves
BMV	8	Blue Muffin Viburnum	Viburnum dentatum 'blue muffin'	4	6-8'	4-5'	4'-5' ht.	в&в	Pendulous habit, Vase shaped, white flower
Decor	ativ	e Grasses				spacing			
DCGR-4	34	Purple Lovegrass	Eragrostis spectabilis	4	18-24"	30"	1 yr. potted	2 gal.	18"-24", S, Aug/Oct, bronze-red seed heads
DCGR-5	4	Northern Sea Oats	Chasmanthium latifolium	4	Ì	36"	1 yr. potted	_	24"-36", S/PSh, Sept/Oct, Tawny and purple
DCGR-6	13	Prairie Fire Switch Grass	Panicum virgatum 'prairie fire'	4	48-60"	36"	1 yr. potted		48"-60", S/PSh, July/Aug, bluish stems & wine red plum
DCGR-7	49	Morning Light Grass	Miscanthus sinensis 'morning light'	4	36-48"	30"	1 yr. potted	1	36"-48", S, Aug/Sept, narrow green foliage, red plumes
		s/Seasonal Color							
- Sun: S/S	sh - Sur	ነ/Shade; S/PSh - Sun and Part Shade; PSI '	h - Part Shade; PSh/Sh - Part Shade/Shade		Habit of	Growth			Features
, ,		· ·	· · · · · · · · · · · · · · · · · · ·						
Sym	Qty	Common Name	Botanical Name	Zone		Spread	Туре	Size	Ht., Exposure, Bloom Period, Color
		Common Name Daylily	Botanical Name Hemerocallis 'Barna Bound'	Zone		•	Type 1 yr. potted	Size 1 gal.	Ht., Exposure, Bloom Period, Color
Sym	48			Zone		•		1 gal.	Ht., Exposure, Bloom Period, Color
Sym GC.A-1	48 57	Daylily	Hemerocallis 'Bama Bound'			•	1 yr. potted	1 gal. 1 gal.	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat
Sym GC.A-1 GC.A-3	48 57 47	Daylily Daylily	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily'			•	1 yr. potted 1 yr. potted	1 gal. 1 gal. 1 gal.	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow
Sym GC.A-1 GC.A-3 GC.A-9	48 57 47 44	Daylily Daylily Daylily	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic'			•	1 yr. potted 1 yr. potted 1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal.	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11	48 57 47 44 9	Daylily Daylily Daylily Daylily	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro'			•	1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B	48 57 47 44 9 28	Daylily Daylily Daylily Daylily Threadleaf Coreopsis	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam'			•	1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2	48 57 47 44 9 28 22	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High'			•	1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted 1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3	48 57 47 44 9 28 22 16	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan'			•	1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5	48 57 47 44 9 28 22 16 14	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow'			•	1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5 GC.H-5	48 57 47 44 9 28 22 16 14	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower Hosta	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow' Hosta 'Royal Standard'			•	1 yr. potted	1 gal. 1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 2 qt 1 gal.	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, July/Sept, White 24", S/PSh, July/Aug, peach yellow 24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5 GC.H-5 GC.I	48 57 47 44 9 28 22 16 14 84	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower Hosta Lowbush Blueberry	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow' Hosta 'Royal Standard' Vaccinium angustifolium			•	1 yr. potted	1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 2 qt 1 gal. 1 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow 24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf 12", S, May, Violet-Blue; 2-1/2" pots 9"-12", S/PSh, May/Sept, Magenta Pink
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5 GC.H-5 GC.I GC.X-3	48 57 47 44 9 28 22 16 14 84 85 20	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower Hosta Lowbush Blueberry Bloody Cransbill	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow' Hosta 'Royal Standard' Vaccinium angustifolium Geranium sanguineum 'NH Purple'		Height	Spread	1 yr. potted	1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 1 gal. 1 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow 24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf 12", S, May, Violet-Blue; 2-1/2" pots 9"-12", S/PSh, May/Sept, Magenta Pink
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5 GC.H-5 GC.I GC.X-3 GC.Z-2	48 57 47 44 9 28 22 16 14 84 85 20	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower Hosta Lowbush Blueberry Bloody Cransbill Little Spire Russian Sage Seasonal Annual Beds	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow' Hosta 'Royal Standard' Vaccinium angustifolium Geranium sanguineum 'NH Purple' Perovskia atriplicifolia 'little spire'		Height	Spread	1 yr. potted	1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 1 gal. 1 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow 24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf 12", S, May, Violet-Blue; 2-1/2" pots 9"-12", S/PSh, May/Sept, Magenta Pink
Sym GC.A-1 GC.A-3 GC.A-9 GC.A-11 GC.B GC.C-2 GC.C-3 GC.C-5 GC.H-5 GC.I GC.X-3	48 57 47 44 9 28 22 16 14 84 85 20	Daylily Daylily Daylily Daylily Threadleaf Coreopsis Pink Coneflower White Coneflower Sandy Yellow Coneflower Hosta Lowbush Blueberry Bloody Cransbill Little Spire Russian Sage Seasonal Annual Beds	Hemerocallis 'Bama Bound' Hemerocallis flava - 'Lemon Lily' Hemerocallis flava 'Siloam Dbl. Classic' Hemerocallis 'Stella de Oro' Coreopsis verticillata, 'Moonbeam' Echinacea purpurea 'Kim's Knee High' Echinacea purpurea 'White Swan' Echinacea sombrero 'sandy yellow' Hosta 'Royal Standard' Vaccinium angustifolium Geranium sanguineum 'NH Purple' Perovskia atriplicifolia 'little spire'		Height	Spread	1 yr. potted	1 gal. 1 gal. 1 gal. 2 qt 2 qt 2 qt 1 gal. 1 qt 2 qt 2 qt	Ht., Exposure, Bloom Period, Color 24", S/PSh, June/July, Deep red/Apple green throat 36", S/PSh, June/July, Lemon Yellow 18", S/PSh, June, Double Soft Salmon Pink 14", S/PSh, June - Sept, deep golden yellow 24", S, July/Aug, Pale Yellow 12"-24", S/PSh, July/Sept, Rose Pink 18"-24", S/PSh, June/Sept, White 24", S/PSh, July/Aug, peach yellow 24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf 12", S, May, Violet-Blue; 2-1/2" pots 9"-12", S/PSh, May/Sept, Magenta Pink

Planting Notes

- 1. Design is based on drawings by Ambit Engineering, Inc., dated January 16, 2018 and may require adjustment due to actual field conditions.
- 2. This project shall comply with the City of Portsmouth, NH Construction Standards and Details.
- 3. The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion
- 4. Erosion Control shall be in place prior to construction.
- 5. If discrepancies exist between the number of plants drawn on the planting plan and the number of plants in the plant list, the planting plan shall govern.
- All new plant material shall conform to the minimum guidelines established for nursery stock published by the American Association of Nurserymen, Inc. In addition all new plant material for the project shall be of specimen quality.
- 7. All new plants to be balled and burlapped or container grown, unless otherwise noted on the plant list. All plants shall be legibly tagged with the proper botanical name.
- 8. The contractor shall supply all new plant material in quantities sufficient to complete the planting shown on the drawings.
- 9. Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower leaf, color, fruit and culture, and only after written approval of the Landscape Architect.
- 10. Contractor shall locate and verify all existing utility lines prior to planting and shall report any conflicts to the Landscape Architect.
- 11. Stake the location of all proposed plantings for approval by Landscape Architect prior to the commencement of planting.
- 12. New shrubs and ground cover shall bear the same relationship to grade as it bore to previous grade. Trees shall be set 2" higher than previous grade. No tress shall be planted before
- 13. All plant beds to receive two inches (3") of bark mulch. Bark mulch shall be one year old, well composted, shredded native bark not longer than 4" in length and ½" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennial shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 6' diameter minimum saucer. Color of mulch shall be dark brown. Red, orange/red or black colored mulch is not acceptable.
- 14. Landscape (weed) fabric is not allowed.

acceptance of rough grading.

- 15. All existing trees to remain shall be properly protected during construction. Protection techniques shall be reviewed and approved by the Landscape Architect.
- 16. Prune trees in accordance to guidelines established for nursery stock published by the American Association of Nurserymen, Inc.
- 17. All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% of 1/4" minus composted bark mulch compost
- 18. All landscaped areas shall be irrigated either with pop up spray and/or drip systems.
- 19. All alterations to these drawings made in the field during construction shall be recorded by the contractor on "as-built drawings."
- 20. There shall be a full one (1) year replacement guarantee for all trees and shrubs after final acceptance of initial planting.

For City Approval

registration:

revisions:

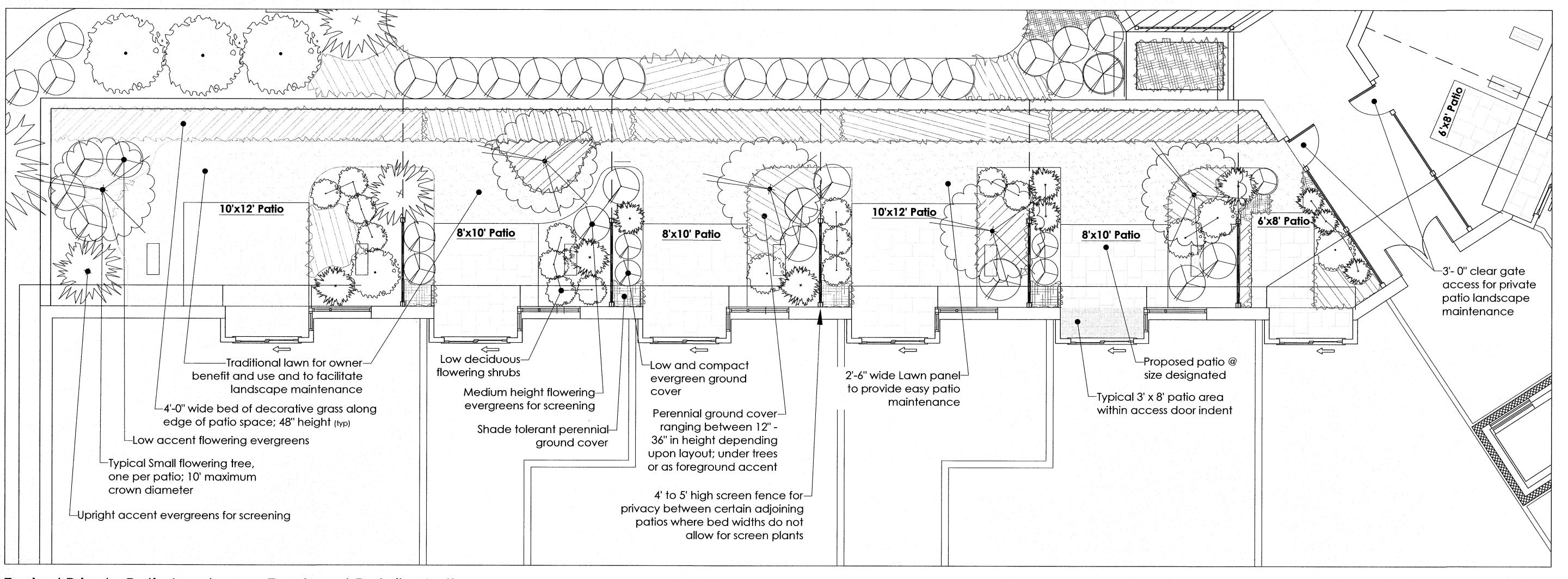
	no.	date	issued
	1	1/16/18	Update plan set with REV site
	2		plan, grading & drainage
,	3	2/12/18	Update plan set with REV site
	4		plan, grading & drainage
	5	3/20/18	Update plan set with REV site
	6		plan, grading & drainage
	7	4/10/18	Update plant schedule
	8		

project number:	1302.0
scale:	1" = 10'
drawn by:	dhg
date:	1/16/2018

sheet title/number:

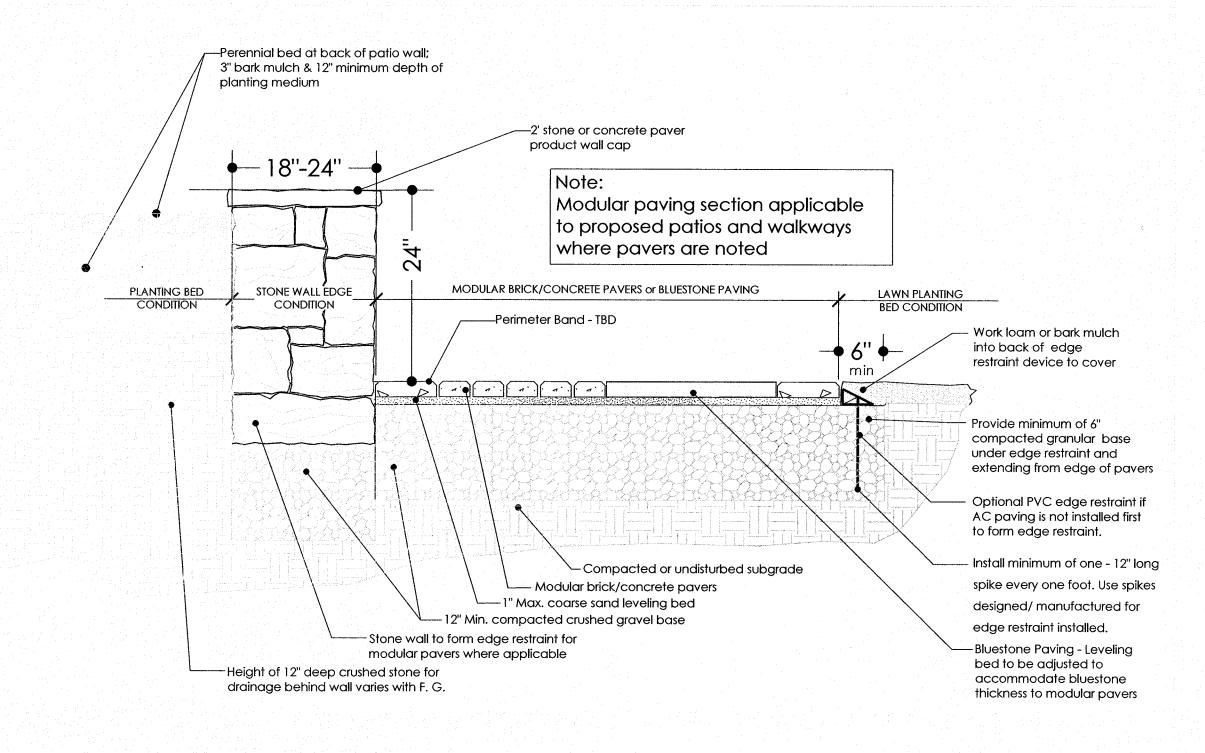
Plant Schedules & Typical Planting Details

LA-5.0



Scale: 1" = 5'-0"

Typical Private Patio Landscape Treatment Detail - Northern Exposure



Private Patio Notes:

Scale: 1" = 1'-0"

- Illustrated on this plan are five (5)patio landscape scenarios to show intended treatment of all patios on the North side of the building. See sheet LA-4.0 for illustration of landscape scenarios for South side of building.
- Plant types will be repeated for each side but the species selections will differ when applied to a North and South exposure.
- All patio areas shall include pop spray irrigation to mitigate concerns regarding potential ignition of bark mulched beds and for proposed lawn irrigation.
- Site and configuration of private patios to be determined based on marketing criteria for individual housing units.
- Large decorative grass planted within a 4' wide bed along the retaining wall edge that defines the outside edge of all private patio spaces. By code, this planting bed width allows for no need to install fencing on that edge.
- Selection of patio surface treatment to be determined.
- 4' 5' high screen fence for privacy between certain adjoining patios where bed widths do not allow for screen plants. In some instances this fencing might be a wrought iron style fencing where plants can provide the majority of screening while fencing provides a sense of security between patios.
- Fencing illustrated at main entry is to provide a barrier between a public entry and adjoining private patio spaces.
- Two gate entries occur at the public entry area for private patio landscape maintenance.

Final placement plants with regard to outdoor HVAC units within each patio space to be adjusted during construction.

 $\underbrace{\textit{J2}_{\textit{+1 LLC}}}_{\textit{Landscape Architecture Site Planning Graph}}$

70 New Road Salisbury, NH 03268 tel/fax: 603.648.6434 web: www.g2plus1.com

Project Name:

145 Brewery Lane

Owner/Applicant:

Portsmouth West End
Development, LLC
3 Penstock Way
Newmarket, New Hampshire 03857

For City Approval

registration:

no.	date	issued
1	1/16/18	Update plan set with REV site
2		plan, grading & drainage
3	2/12/18	Update plan set with REV site
4		plan, grading & drainage
5	3/20/18	Update plan set with REV site
6		plan, grading & drainage
7		
8		

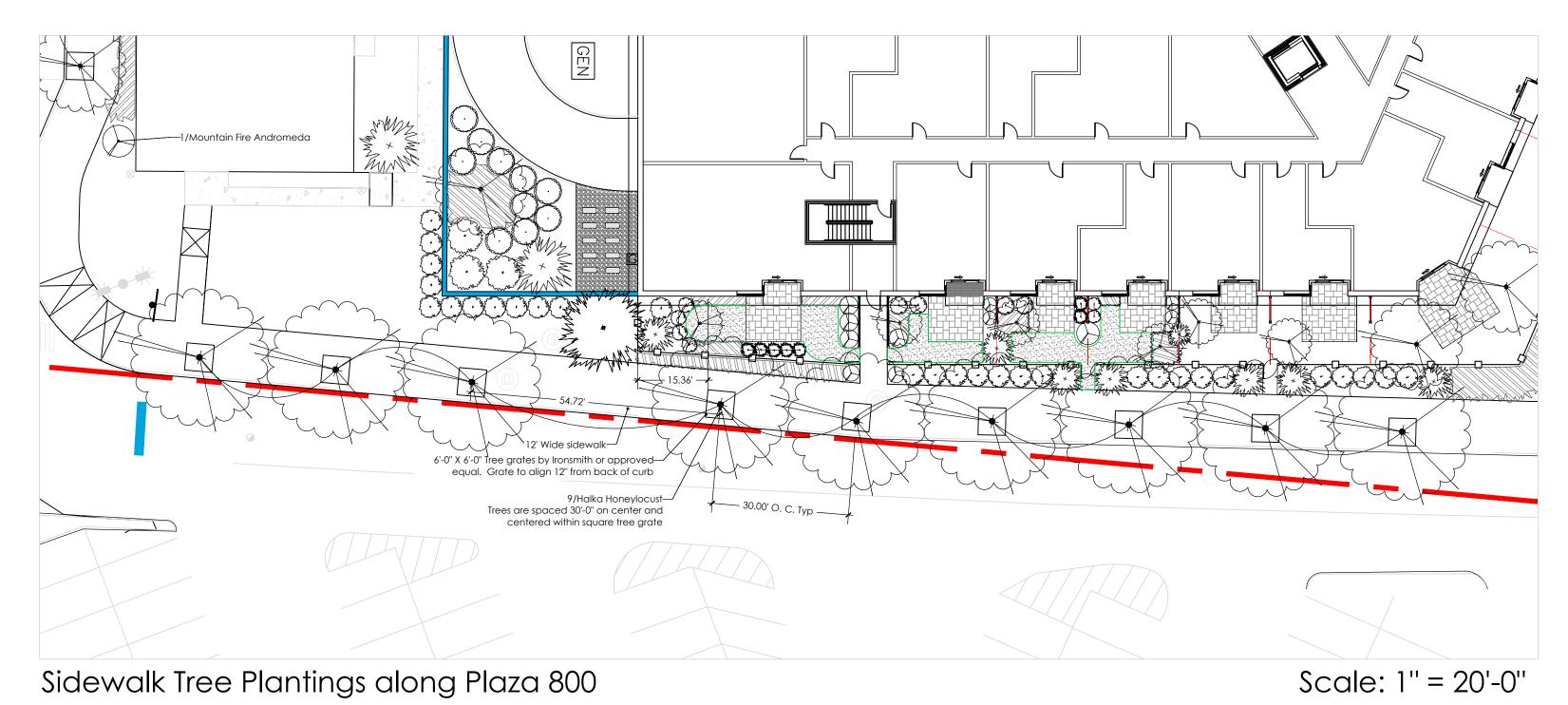
1302.0
1" = 10'
dhg
1/16/2018

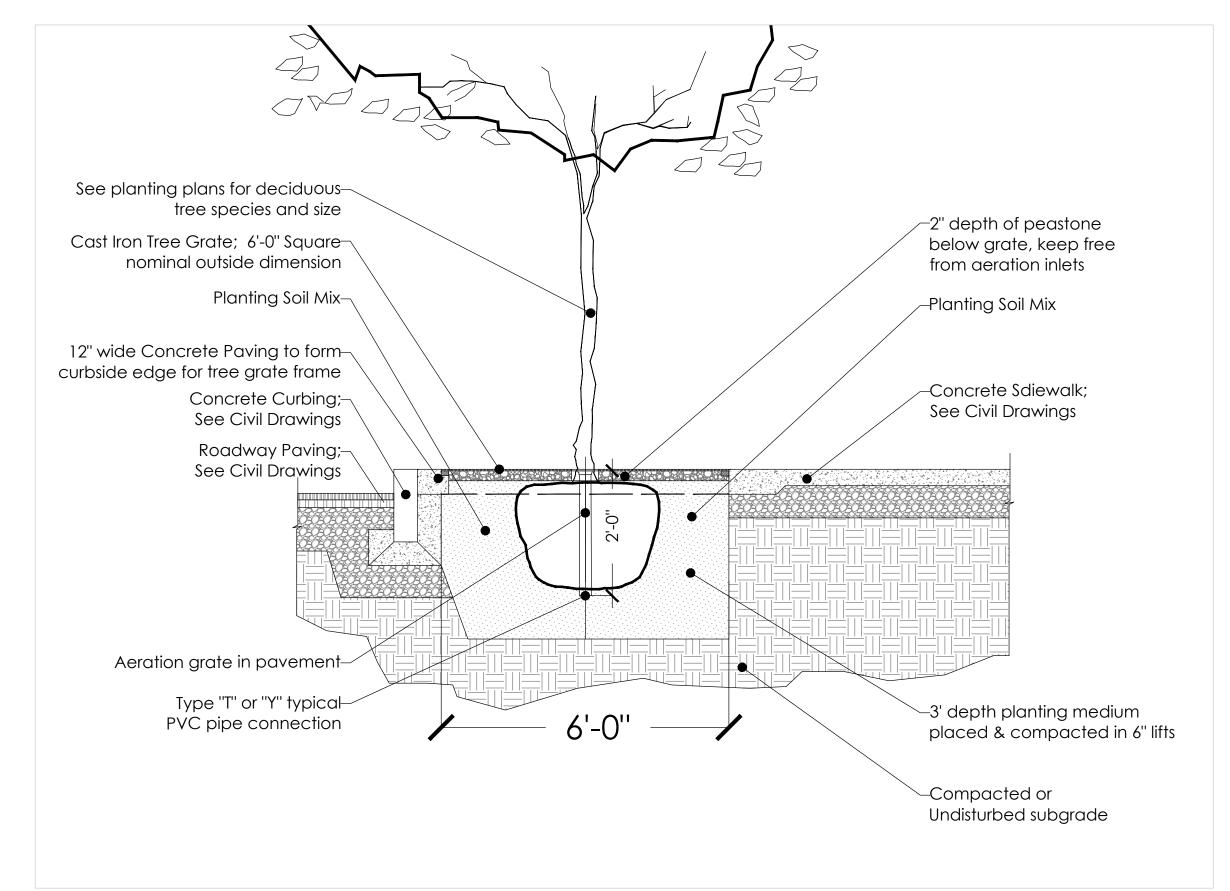
sheet title/number:

Typical Private
Patio Plantings &
Construction
Details

LA-6.0

Typical Low Stone Wall & Modular Paving Section Detail for Small Group Use Patio in Birch Brove





Typical Sidewalk /Tree Grate Planting Detail

Pla	nt	Schedule	Street Tree	e Pla	nting	S			3/2/2018
Brewery	Lane	e Landscape							
Portsmo	uth, I	NH							
					Habit of	Growth			
Sym	Qty	Common Name	Botanical Name	Zone	Height	Spread	Installed Size	Туре	Notes
Large	, Do	eciduous Trees							
HLH	9	Halka Honeylocust	Gleditsia triacanthos inermis 'halka'	4	30-40'	30-40'	3" cal.	в&в	tough, draught and salt tolerant, open crown
Small	, A	ccent Flowering	Гrees						
JTL	5	Japanese Tree Lilac	Syringa reticulata	3	20-30'	15-25'	2-1/2" cal.	B&B	tough, full sun,draught and salt tolerant
Accer	nt/F	Flowering Evergr	een Shrubs						
MFA	2	Mountain Fire Andromed	Pieris japonica 'mountain fire'	5	9-12'	6-8'	7 gal.	CTN	Upright form, Pendulous white flowers
Decid	uo	us Flowering Shr	ubs						
GFS	5	Gold Flame Spirea	Spirea x bumalda 'gold flame'	4	2-3'	3-4'	18"-24" spd.	CTN	New foliage mottled with red/copper/orange
Perer	nnia	als/Seasonal Colo	or						
S - Sun; S	/Sh - 9	Sun/Shade; S/PSh - Sun and P	art Shade; PSh - Part Shade; PSh/Sh - Part S	Shade/S	hade				
					Habit of	Growth			Features
Sym	Qty		Botanical Name	Zone	Height	Spread	Туре	Size	Ht., Exposure, Bloom Period, Color
GC.A-3	30	Daylily	Hemerocallis flava - 'Lemon Lily'				1 yr. potted	2 qt	36", S/PSh, June/July, Lemon Yellow
GC.H-5	15	Hosta	Hosta 'Royal Standard'				1 yr. potted	1 gal.	24-28", S/Sh, Aug/Sept, White flower, Rich Grn leaf
GC.X-3	40	Bloody Cransbill	Geranium sanguineum 'NH Purple'				1 yr. potted	2 qt	9"-12", S/PSh, May/Sept, Magenta Pink

70 New Road Salisbury, NH 03268 tel/fax: 603.648.6434 web: www.g2plus1.com

Project Name:

145 Brewery Lane

Owner/Applicant:

Portsmouth West End Development, LLC 3 Penstock Way Newmarket, New Hampshire 03857

For City Approval

registration:

Scale: 1" = 2'-0"

4/10/18 Add street trees, update plant

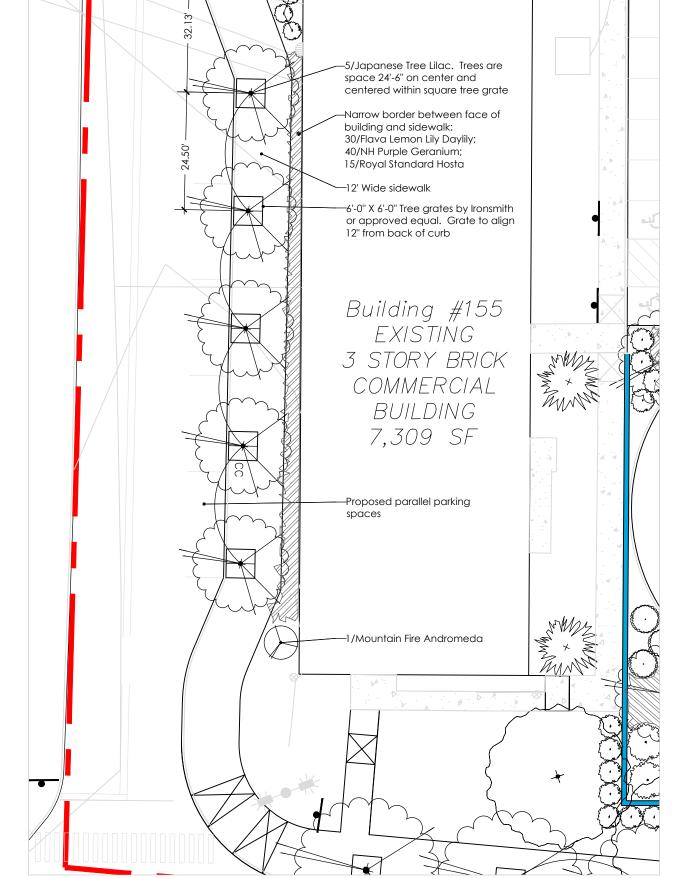
schedule & notes and details

project number:	1302.0
scale:	1" = 10'
drawn by:	dhg
date:	1/16/2018

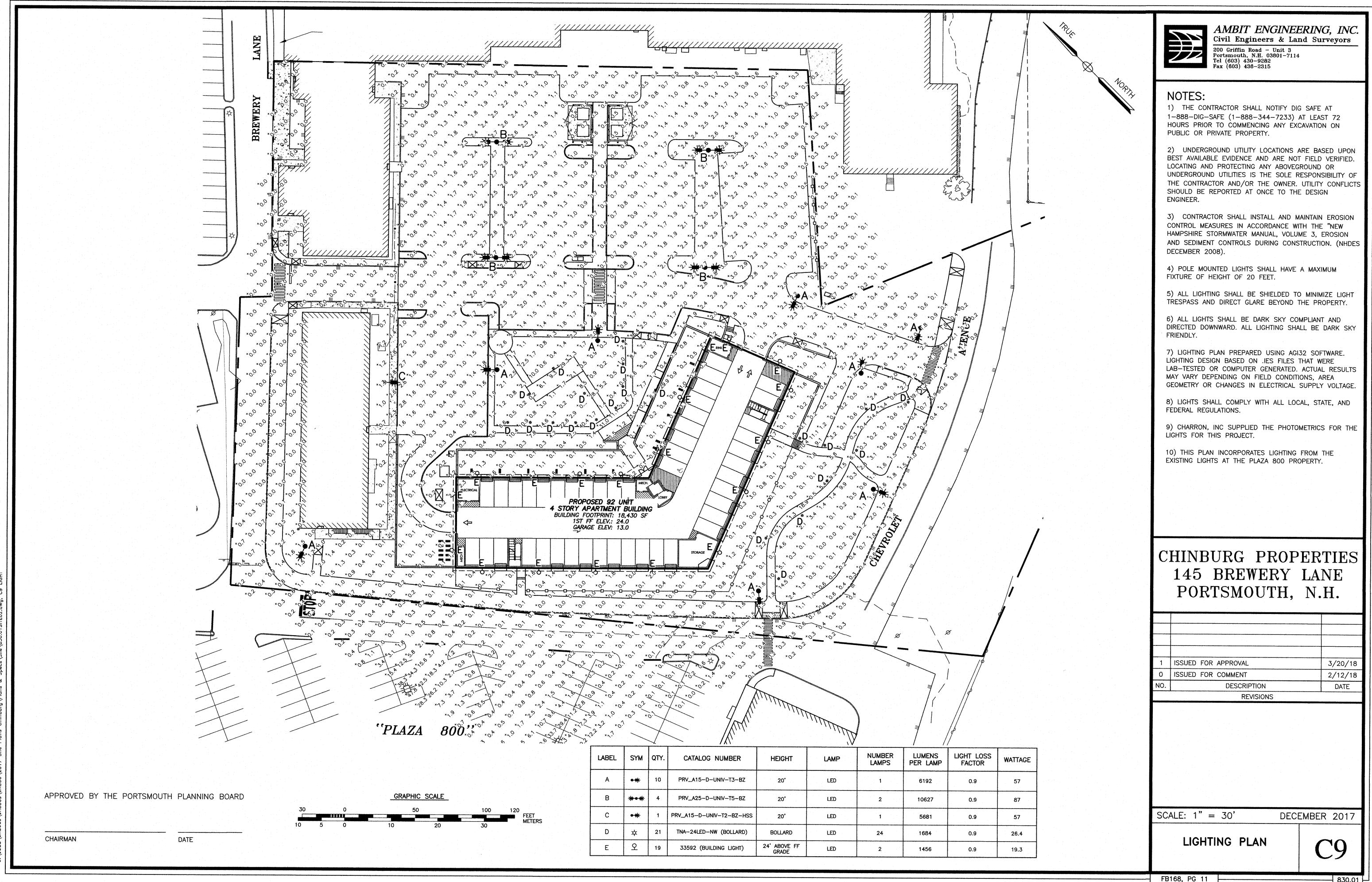
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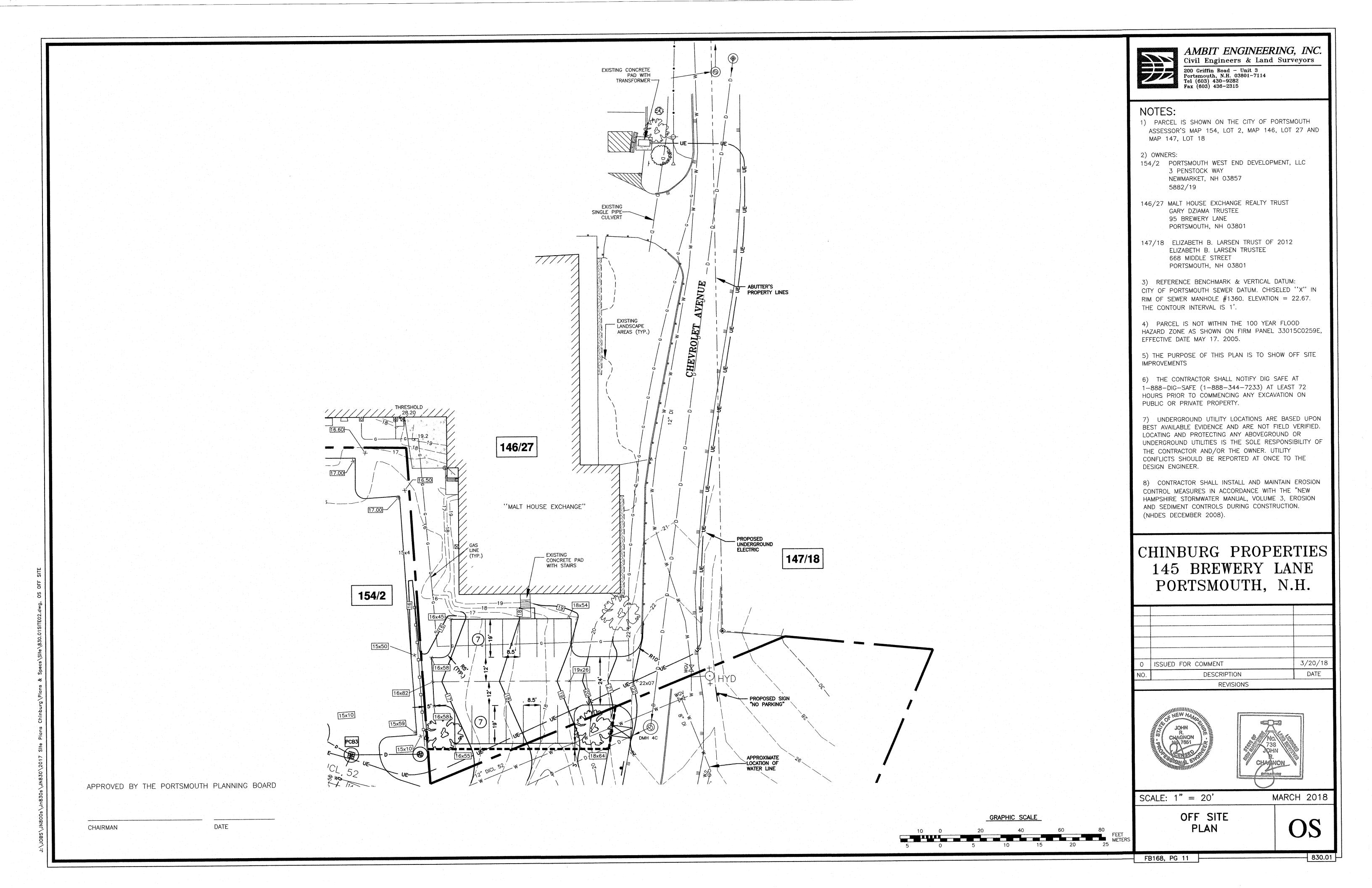
Sidewalk Tree Plantings, Details & Plant Schedule

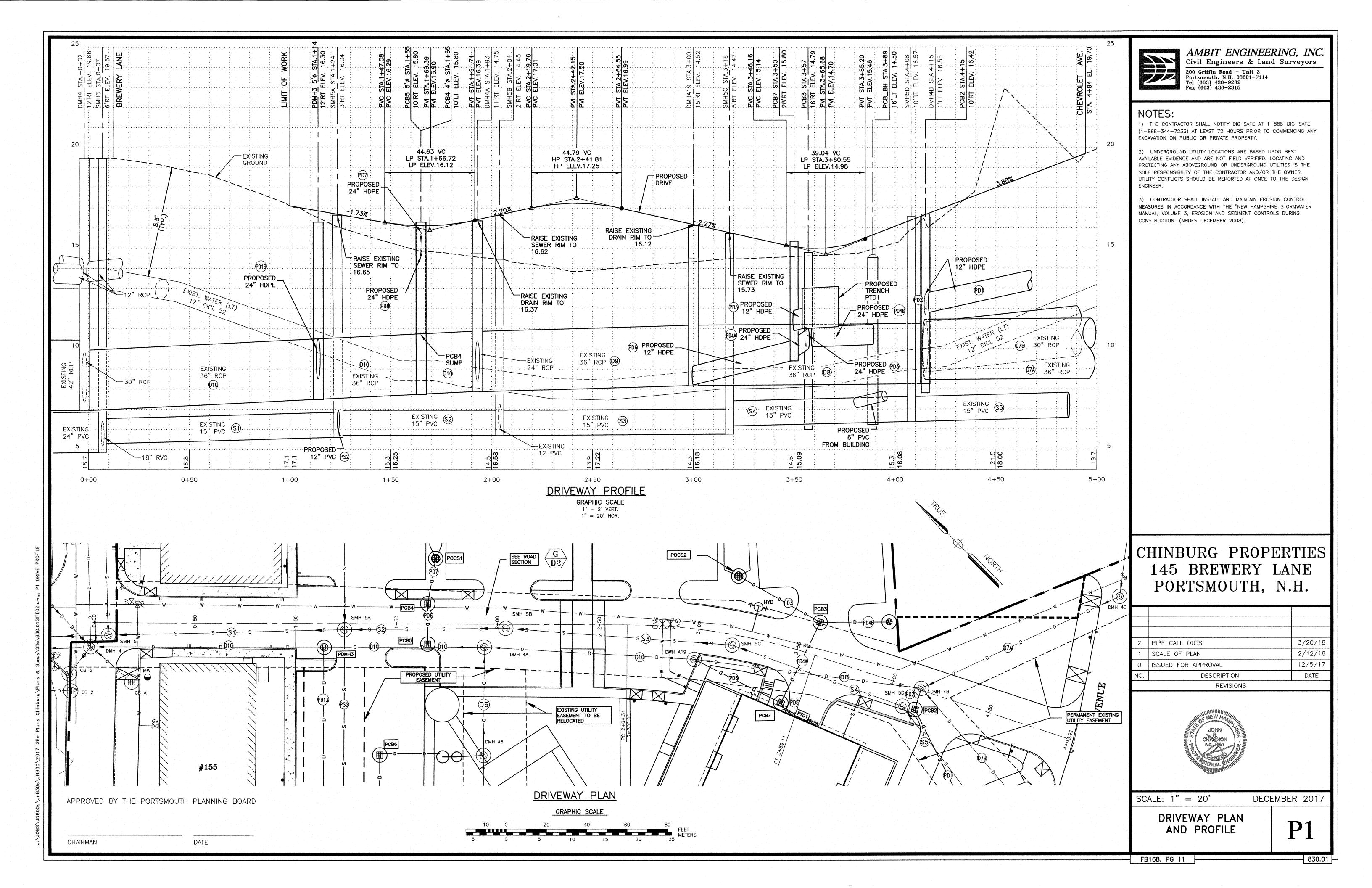
LA-7.0

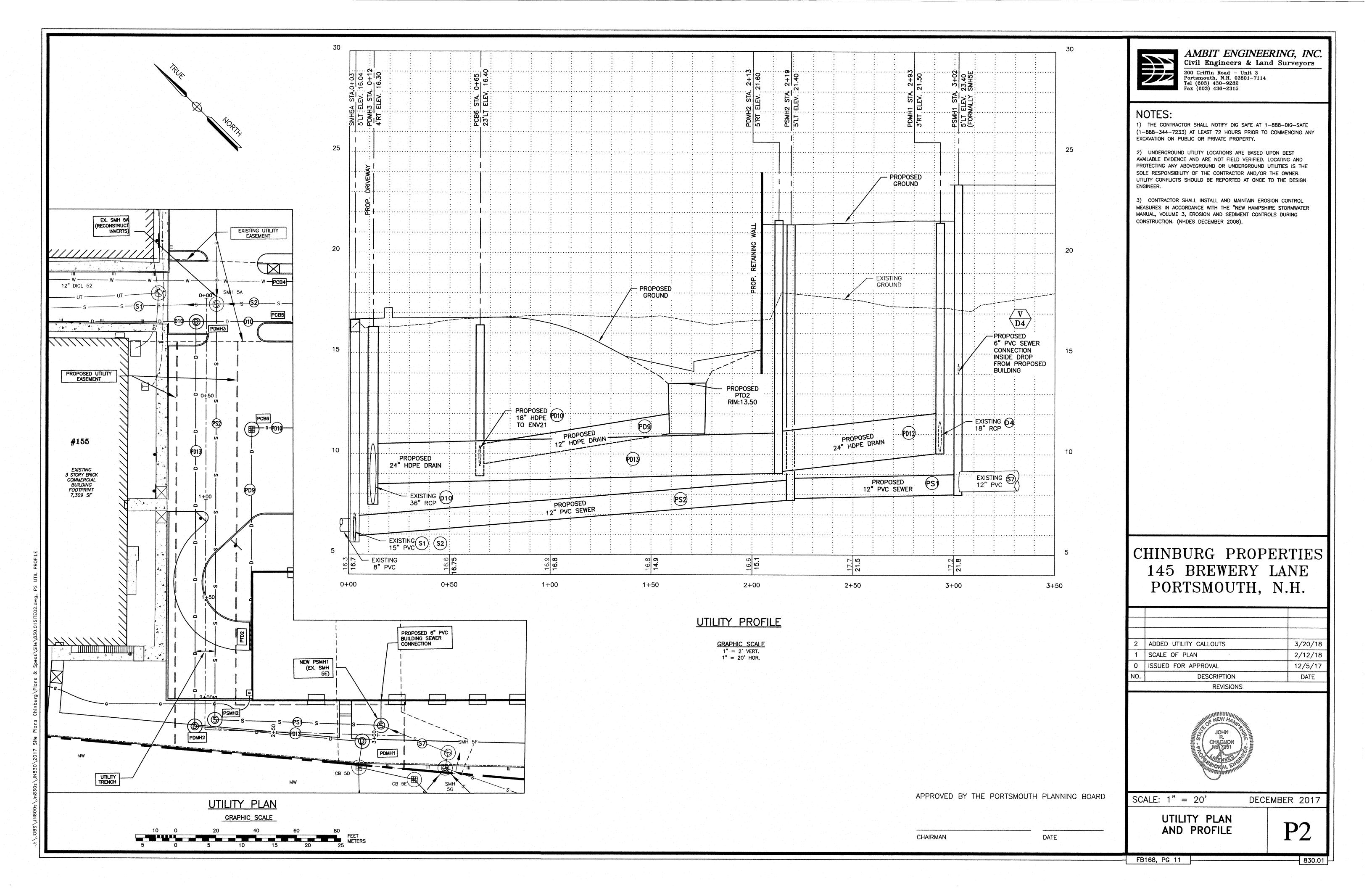


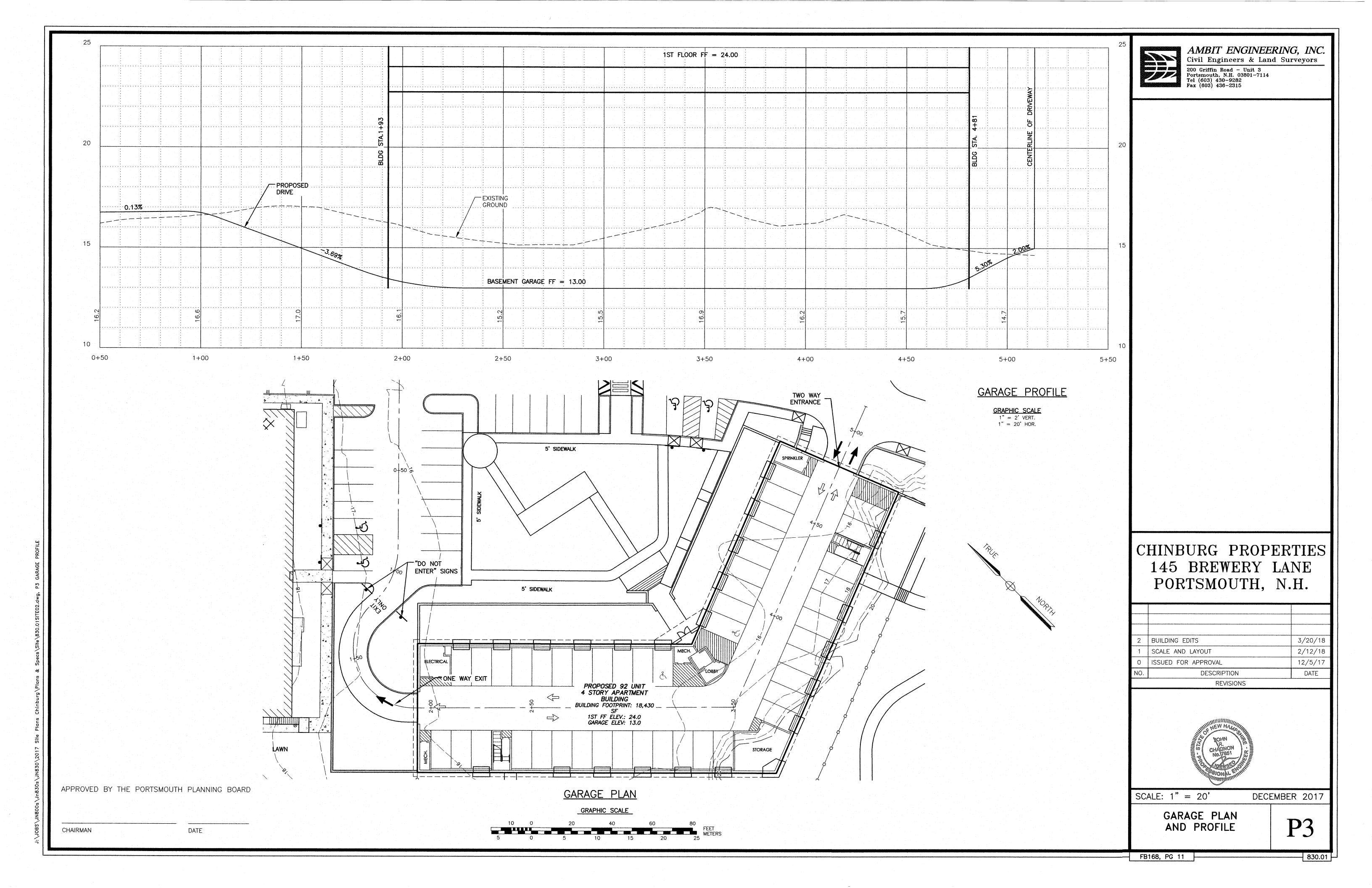
Building #155 Street Trees Scale: 1" = 20'-0"

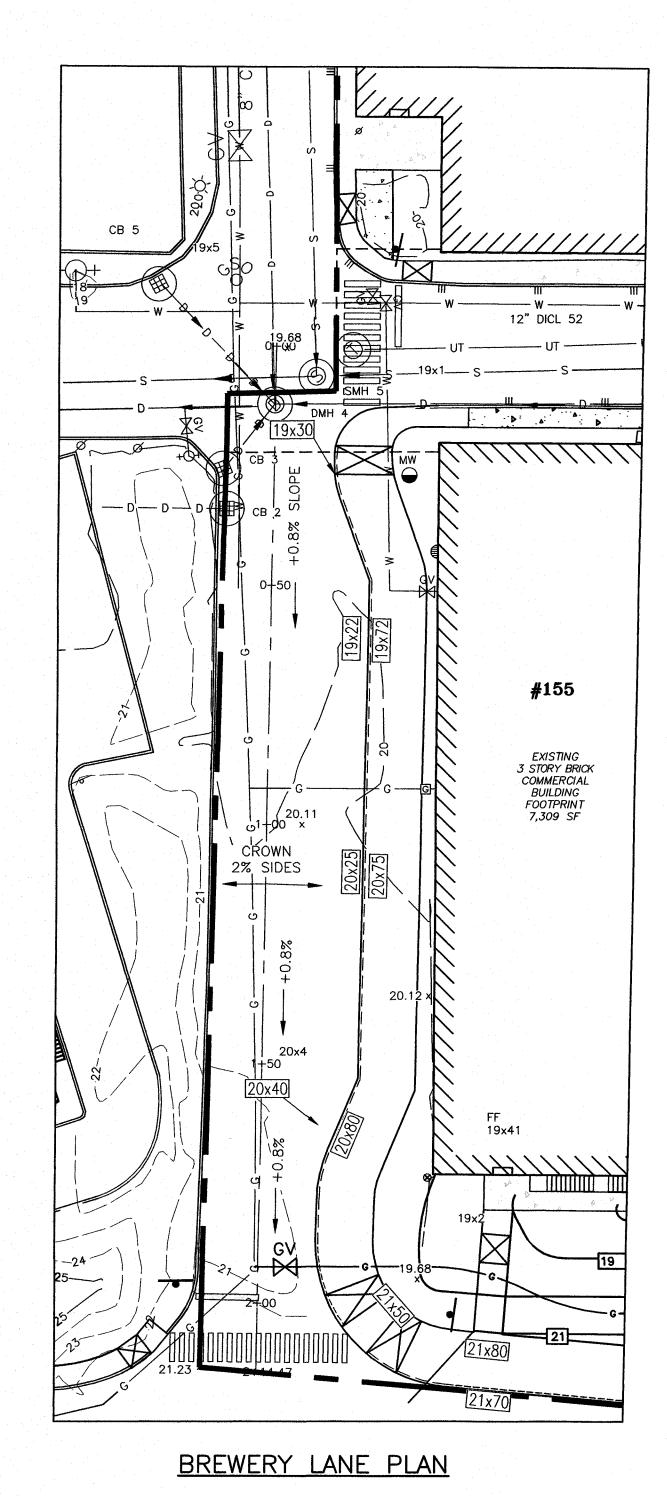




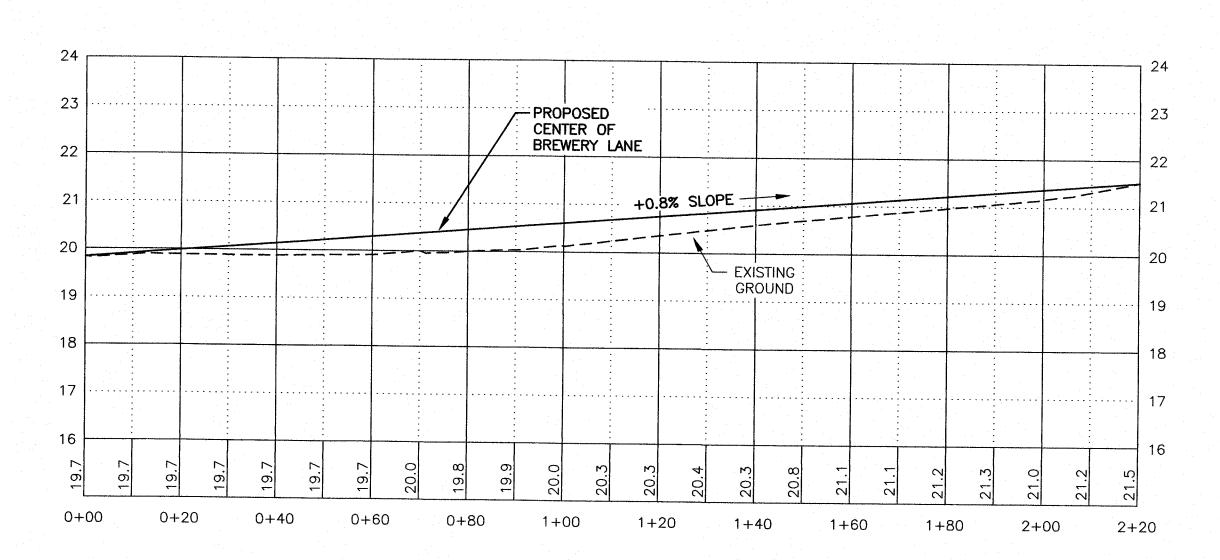








Pop Nop The



BREWERY LAND PROFILE

GRAPHIC SCALE

1" = 2' VERT.

1" = 20' HOR.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN DATE



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:

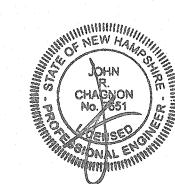
1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

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).

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

0	ISSUED FOR APPROVAL	4/10/18
NO.	DESCRIPTION	DATE
	REVISIONS	



SCALE: 1" = 20'

APRIL 2018

BREWERY LANE PLAN AND PROFILE

P4

FB168, PG 11

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN

THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I) 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 LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR TONS PER ACRE. 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 FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, i.e., SILT FENCING OR SILTSOXX AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATIONS. PROVIDE CATCH BASIN PROTECTION THE USE OF HAY BALES IS NOT ALLOWED.

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH AS REQUIRED. DEMOLISH BUILDINGS AND FENCES AS NEEDED.

REMOVE EXISTING STOCKPILES, AND PROVIDE TEMPORARY SEEDING. INSTALL SILTSOXX. IF EROSION IS PERSISTENT THEN COVER WITH MULCH.

RE-ROUTE SEWER AND DRAINAGE FROM PLAZA 800 AND COMPLETE CONSTRUCTION TO THE POINT OF SWITCHING FLOWS TO NEW PIPES. DEMOLISH/FILL OLD PIPES AND UTILITIES TO BE

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO 10' OF THE PROPOSED BUILDING FOUNDATIONS. CAP AND MARK TERMINATIONS OR LOG SWING TIES.

ROUGH GRADE SITE, KEEP EXISTING PAVEMENT INTACT AS MUCH AS POSSIBLE.

CONSTRUCT BUILDING.

CONSTRUCT FILTRATION BASINS. PROVIDE PERIMETER PROTECTION AROUND FILTRATION BASINS UNTIL GRASS IS ESTABLISHED.

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 BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.

AFTER BUILDINGS ARE COMPLETED, FINISH ALL REMAINING LANDSCAPED WORK.

CONSTRUCT ASPHALT WEARING COURSE.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE

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 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 AND SILTSOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILTSOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL 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 OR SILTSOXX 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 TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN 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

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

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

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

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

- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED

- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP BEEN INSTALLED

- EROSION CONTROL BLANKETS HAVE BEEN INSTALLED

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

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 50% 100 LBS/ACRE KENTUCKY BLUEGRASS 50%

SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)

CREEPING RED FESCUE

42%

TALL FESCUE 48 LBS/ACRE 42% BIRDSFOOT TREFOIL

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

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

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE

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

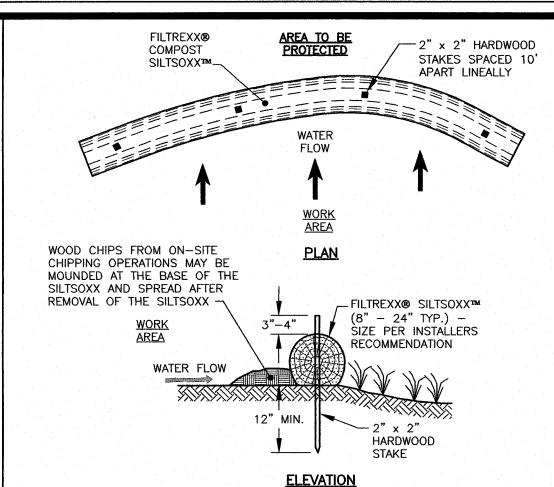
SILT FENCING AND SILTSOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILTSOXX REMOVAL SHALL BE PERMANENTLY SEEDED.

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 FLOW CONDITIONS.

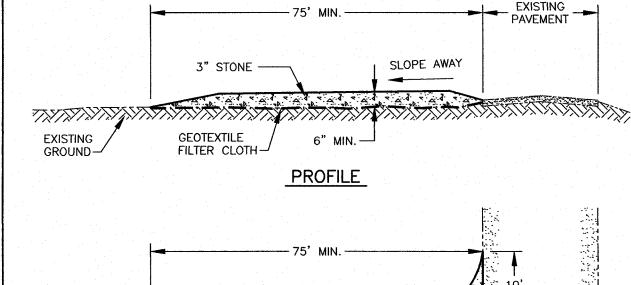
AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

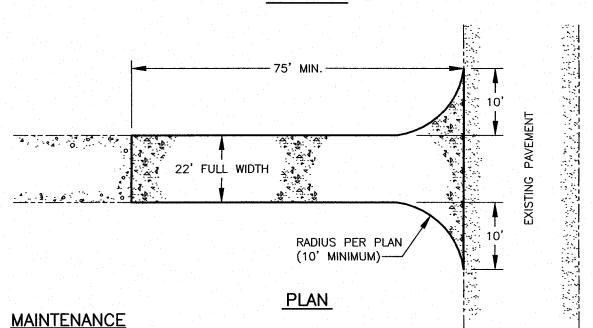


ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. FILLTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED

- 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 DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE







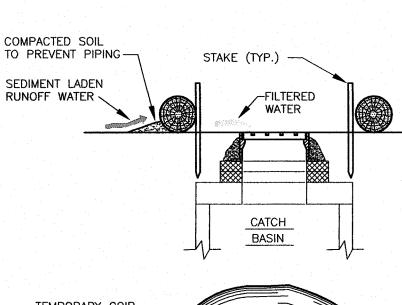
- 1) MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
- 2) IF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

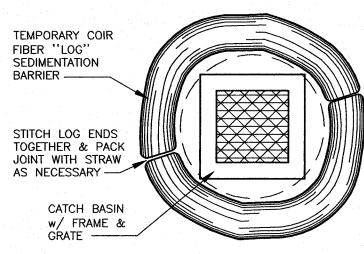
CONSTRUCTION SPECIFICATIONS

- 1) STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH CRUSHED STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- 2) THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- 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.
- 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
- 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.

ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

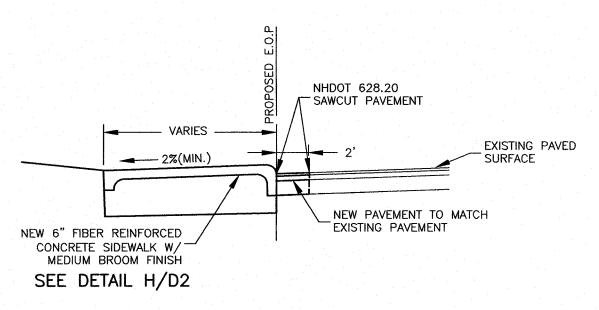


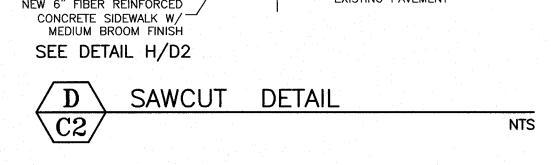




1. PRIOR TO INSTALLATION, SILT LOGS SHALL BE KEPT DRY AND STORED IN THEIR ORIGINAL WRAPPING. 2. MINIMUM CROSS SECTIONAL DIAMETER OF SILT LOGS: 12". S. SILT LOGS MAY BE CUT AND RE-STITCHED AS NEEDED PER MANUFACTURERS RECOMMENDATIONS 4. SILT LOGS SHALL BE INSPECTED AFTER EACH STORM EVENT. 5. REMOVE ACCUMULATED SILT WHEN DEPTH REACHES ONE HALF OF SILT LOG DIAMETER. 6. IF LOGS ARE TOO STIFF TO BEND AROUND CATCH BASIN INLET, THEY MAY BE CUT AND LAID SQUARE.







-BACKGROUND COLOR -

RED (REFLECTORIZED)

-letters — White

(REFLECTORIZED)

STOP SIGN DETAIL

R1-1

DIMENSIONS (Inches)

ABCDE

BICYCLE 18 % 6 6C 734

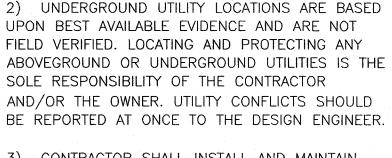
MINIMUM 24 % 8 8C 10

EXPWY. 36 % 12 12C 15

SPECIAL 48 11/4 16 16C 20

STD. 30 3/4 10 10C 121/2

*REDUCE SPACING 40%



AMBIT ENGINEERING, INC.

Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3

Tel (603) 430-9282

Fax (603) 436-2315

Portsmouth, N.H. 03801-7114

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT

1-888-DIG-SAFE (1-888-344-7233) AT LEAST

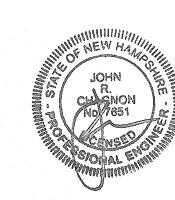
EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

72 HOURS PRIOR TO COMMENCING ANY

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).

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

			1
	4	DETAIL DD ADDED	4/10/18
	3	DETAIL D ADDED	4/3/18
	2	NOTES	3/20/18
	. 1	NOTES	2/12/18
	0	ISSUED FOR COMMENT	12/5/17
· .	NO.	DESCRIPTION	DATE
		REVISIONS	

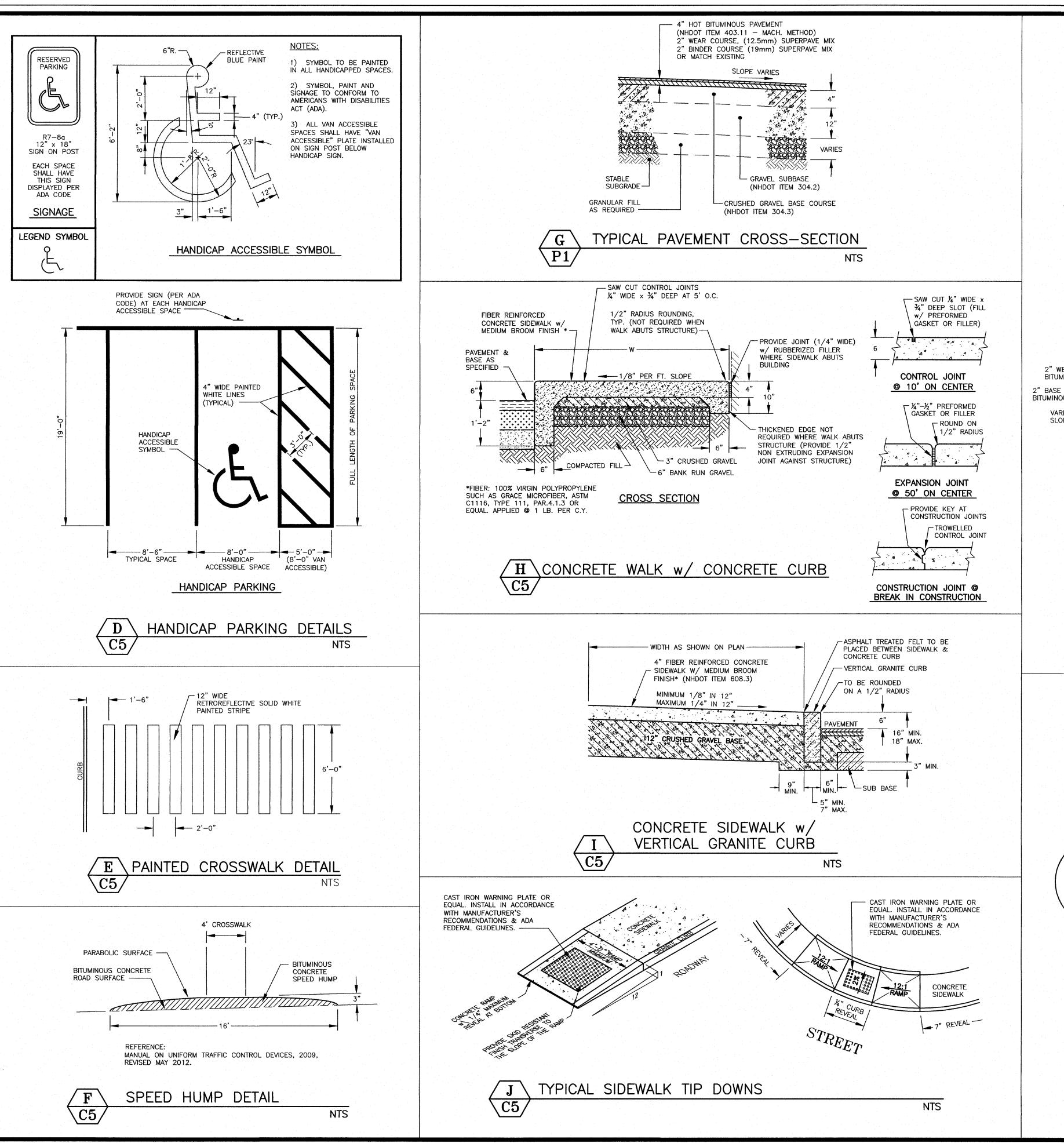


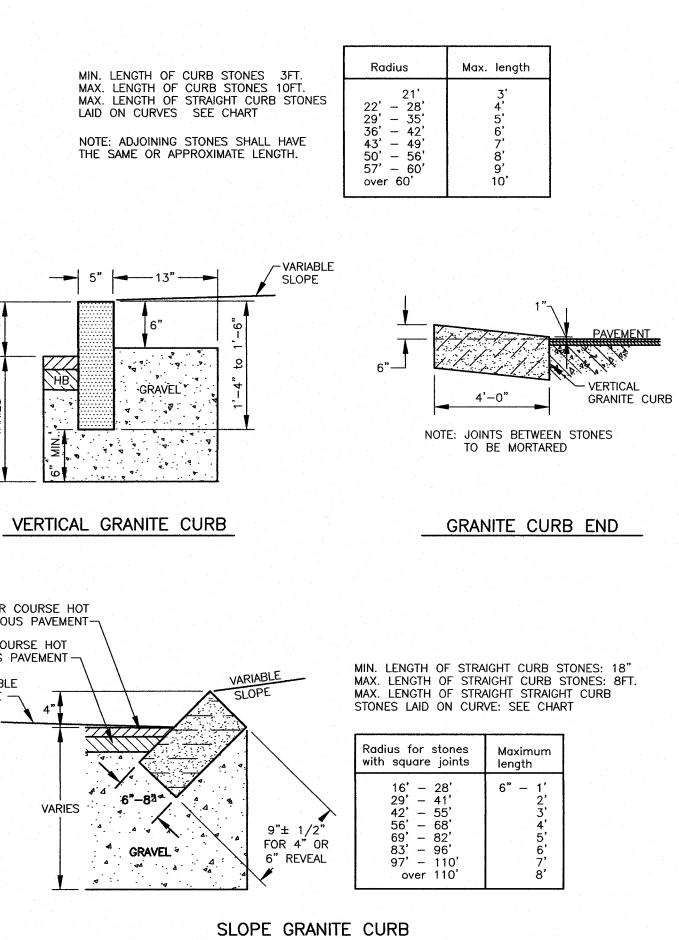
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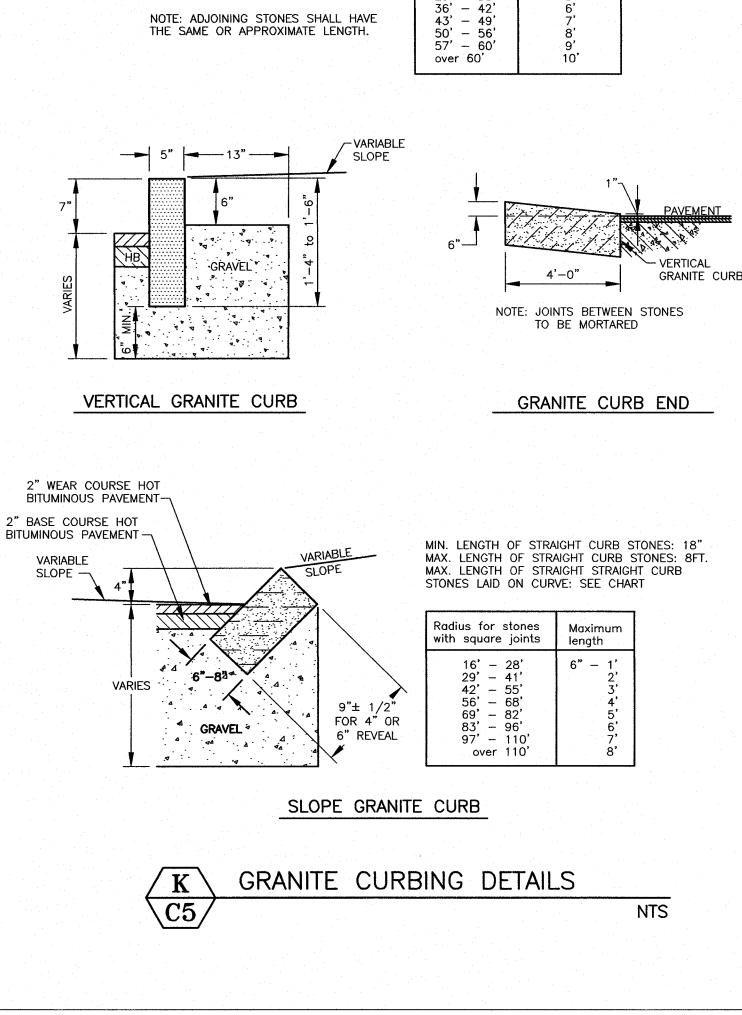
DECEMBER 2017

EROSION PROTECTION NOTES AND DETAILS

FB168, PG 11







WIDTH AS SHOWN ON PLAN-

BASE COURSE

1/4" WIDE CONTRACTION JOINT (FILL

JOINT w/ RUBBERIZED FILLER TO

1/2" BELOW TOP OF CONCRETE)

CROSS SECTION

4" FIBER REINFORCED CONCRETE

12" CRUSHED GRAVEL

SIDEWALK SHALL BE CONSTRUCTED TO CITY OF PORTSMOUTH STANDARDS.

LONGITUDINAL SECTION

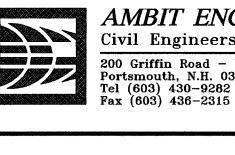
CONCRETE SIDEWALK DETAIL

-TOOLED EXPANSION JOINTS @ 5'

O.C. 1-1/4" DEEP x 1/4" WIDE (FILL JOINT w/ RUBBERIZED FILLER

TO 1/2" BELOW TOP OF CONCRET

SIDEWALK W/ MEDIUM BROOM FINISH* (NHDOT ITEM 608.3)



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

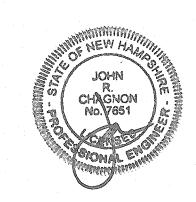
1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

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).

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

	4	DETAIL L	4/10/18
	3	DETAIL I	4/3/18
	2	DETAIL H	3/20/18
-	1	DETAIL J	2/12/18
	0	ISSUED FOR COMMENT	12/5/17
	NO.	DESCRIPTION	DATE
		REVISIONS	

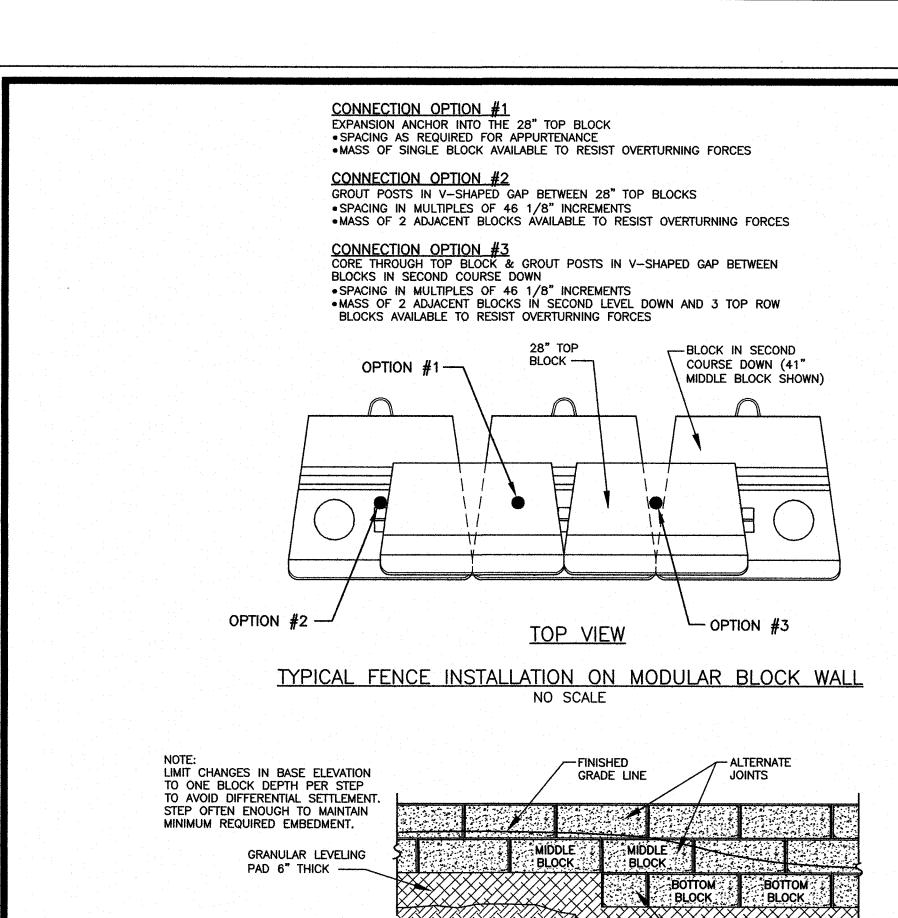


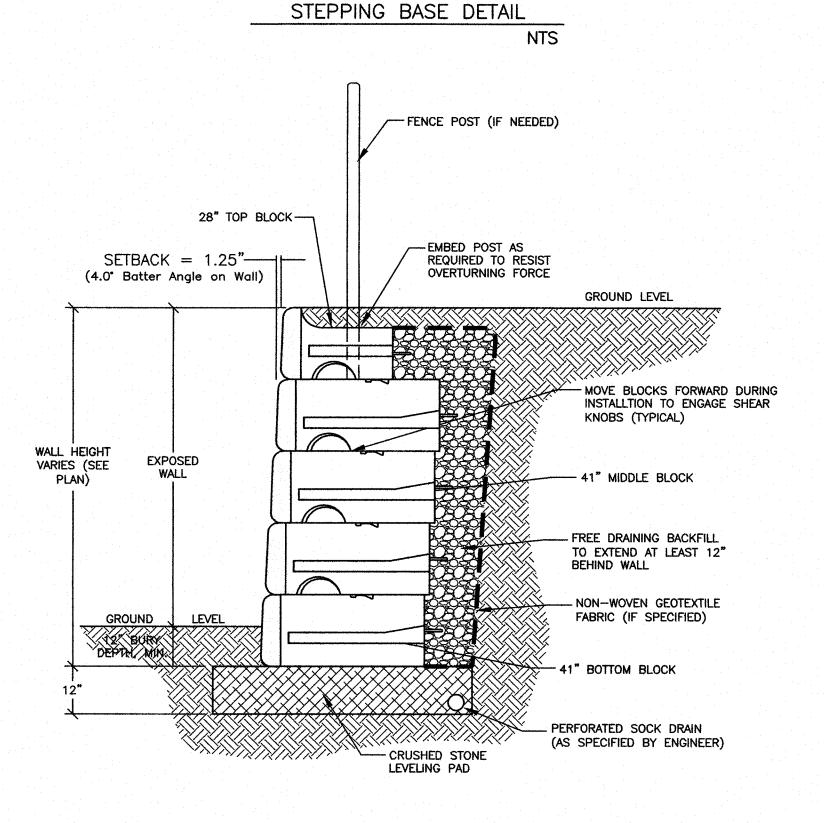
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DETAILS

DECEMBER 2017

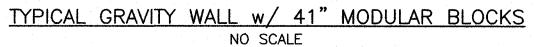
FB168, PG 11





- UNDISTURBED SOIL

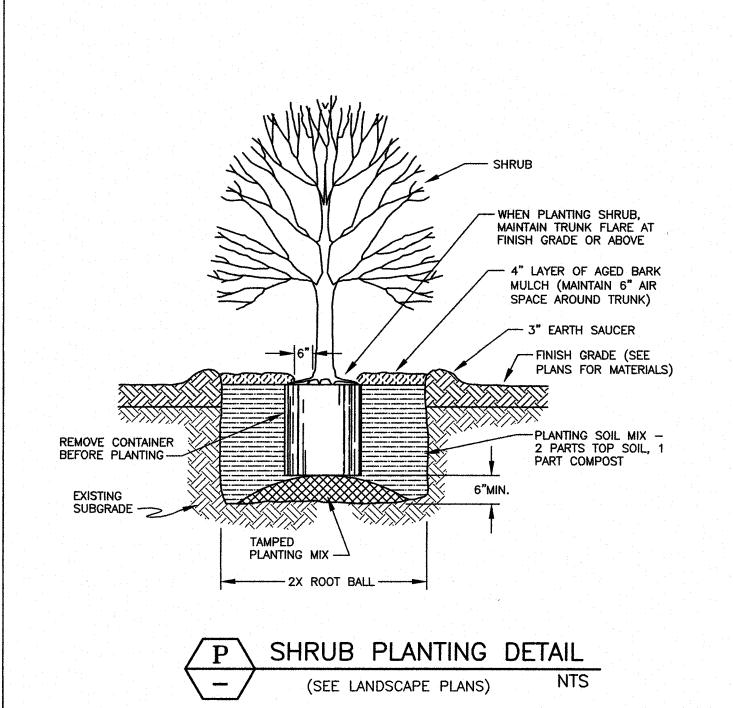
-BURY ONE BOTTOM HALF BLOCK

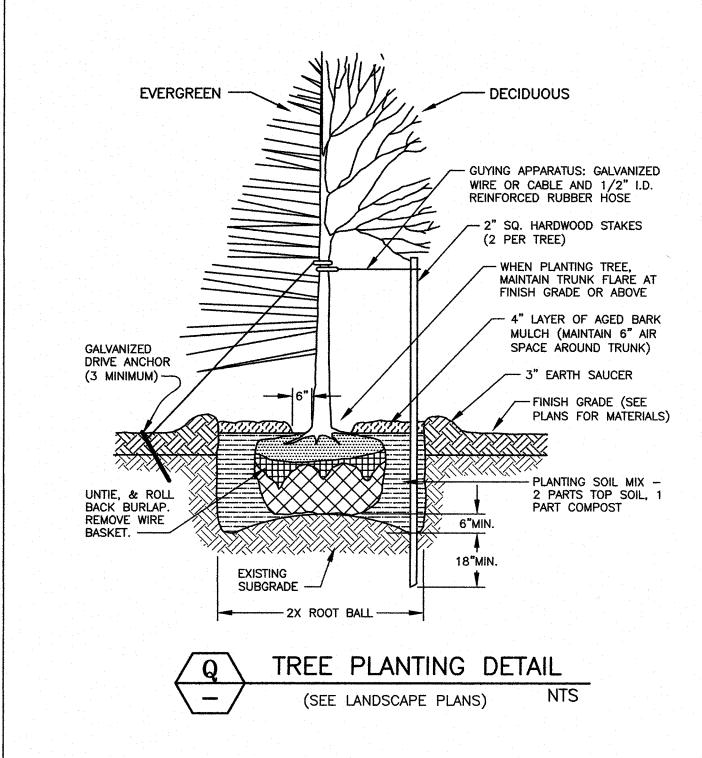


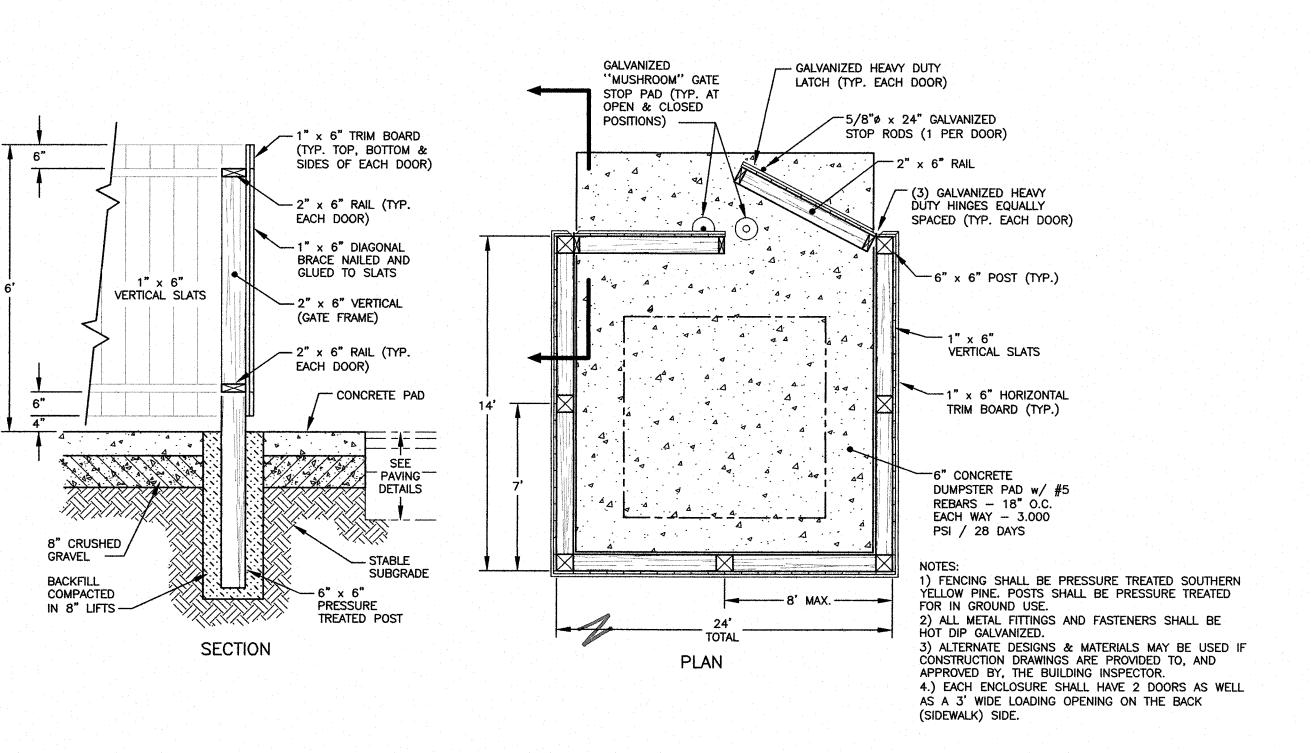
MODULAR BLOCK RETAINING WALL DETAILS REDI-ROCK

NOTE: STAMPED DESIGN DRAWINGS SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH FOR APPROVAL PRIOR TO CONSTRUCTION.

NTS











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

NOTES:

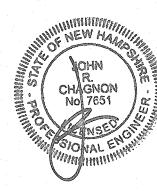
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CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

2	DETAIL O & R	3/20/18
1	DETAIL O	2/12/18
0	ISSUED FOR COMMENT	12/5/17
NO.	DESCRIPTION	DATE



SCALE: AS SHOWN

DECEMBER 2017

DETAILS

D.

FB168, PG 11

FILTRATION MAINTENANCE

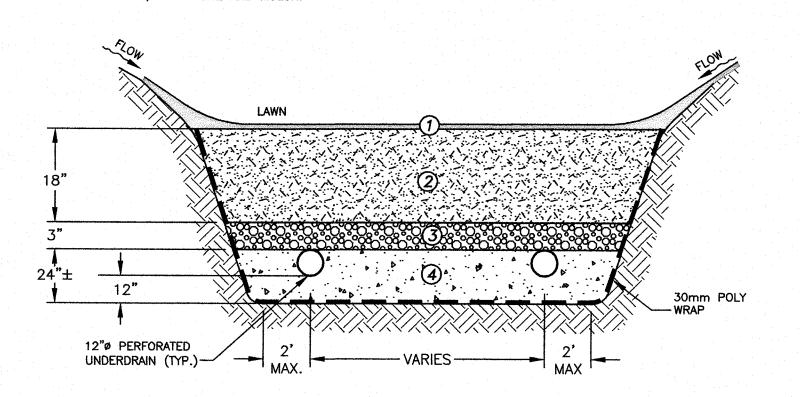
SOILS: VISUALLY INSPECT AND REPAIR EROSION MONTHLY. USE SMALL STONES TO STABILIZE EROSION ALONG DRAINAGE PATHS. CHECK THE pH ONCE OR TWICE A YEAR. APPLY AN ALKALINE PRODUCT, SUCH AS LIMESTONE, IF NEEDED.

IF FILTRATION BASIN FAILS TO EMPTY 72 AFTER A RAINFALL, THE BASIN SHALL BE INSPECTED. IF AFTER INSPECTION IT IS DETERMINED THAT THE ENGINEERED SOIL HAS CLOGGED, THE ENGINEERED SOIL SHALL BE REPLACED. IN THE EVENT OF SOIL REPLACEMENT IN THE FILTRATION BASIN, AN AIRSPADE SHALL BE USED, TO CAREFULLY REMOVE THE SOILS SURROUNDING THE TREE ROOTS. TREE ROOTS ARE TO BE PROTECTED FROM DRYING OUT DURING THE PLACEMENT OF NEW SOILS AND NEW SOILS ARE TO BE REPLACED IMMEDIATELY UPON EXPOSING THE ROOT SYSTEMS.

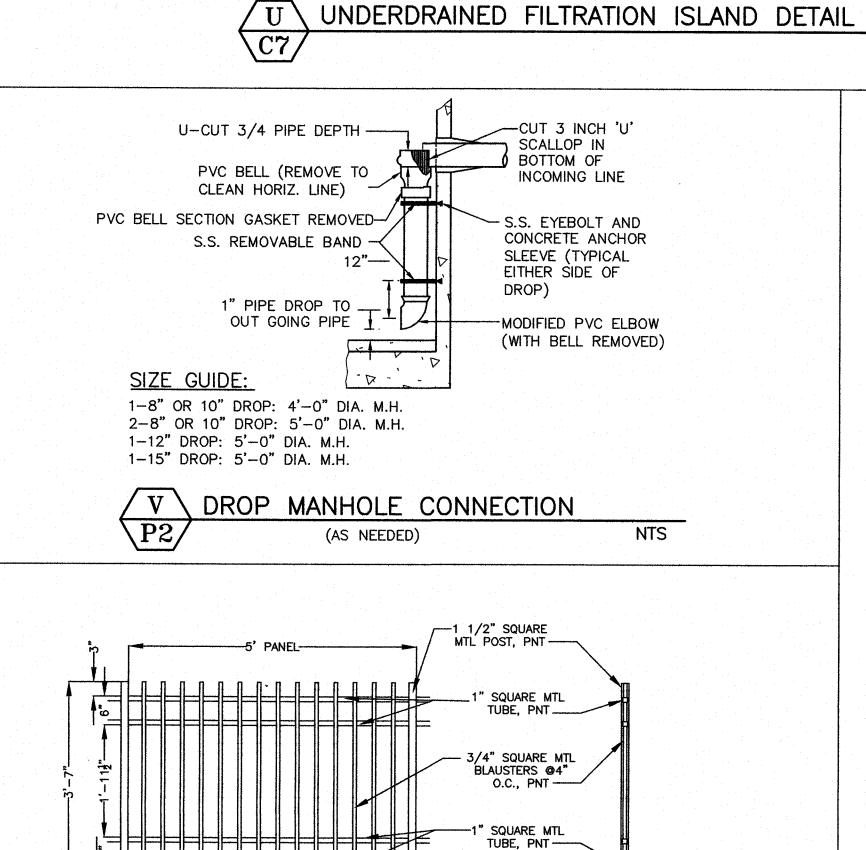
FILTRATION CONSTRUCTION
SOILS: DO NOT COMPACT SOIL. EXCAVATE BASIN, HAND RAKE STONE,
PEA STONE AND MULCH LAYERS.

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.

-	SAND SE	PECIFICATION
	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



(4) 0.75" - 1.5" CRUSHED STONE, WASHED.

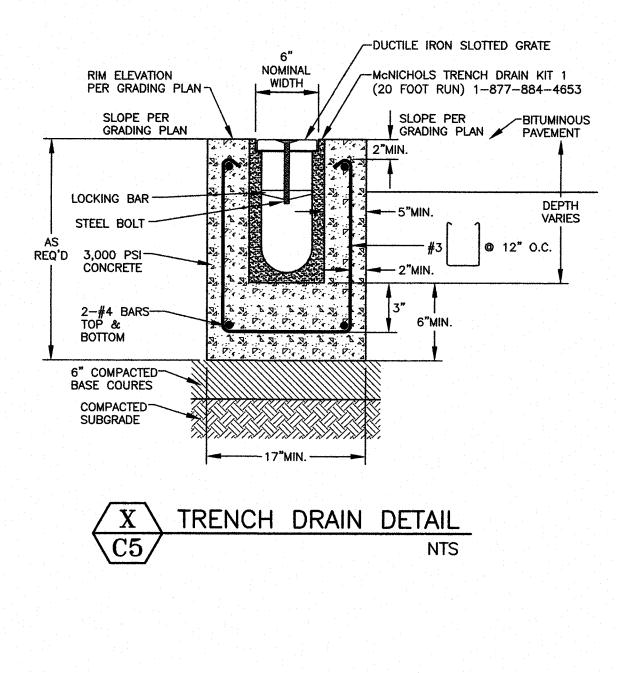


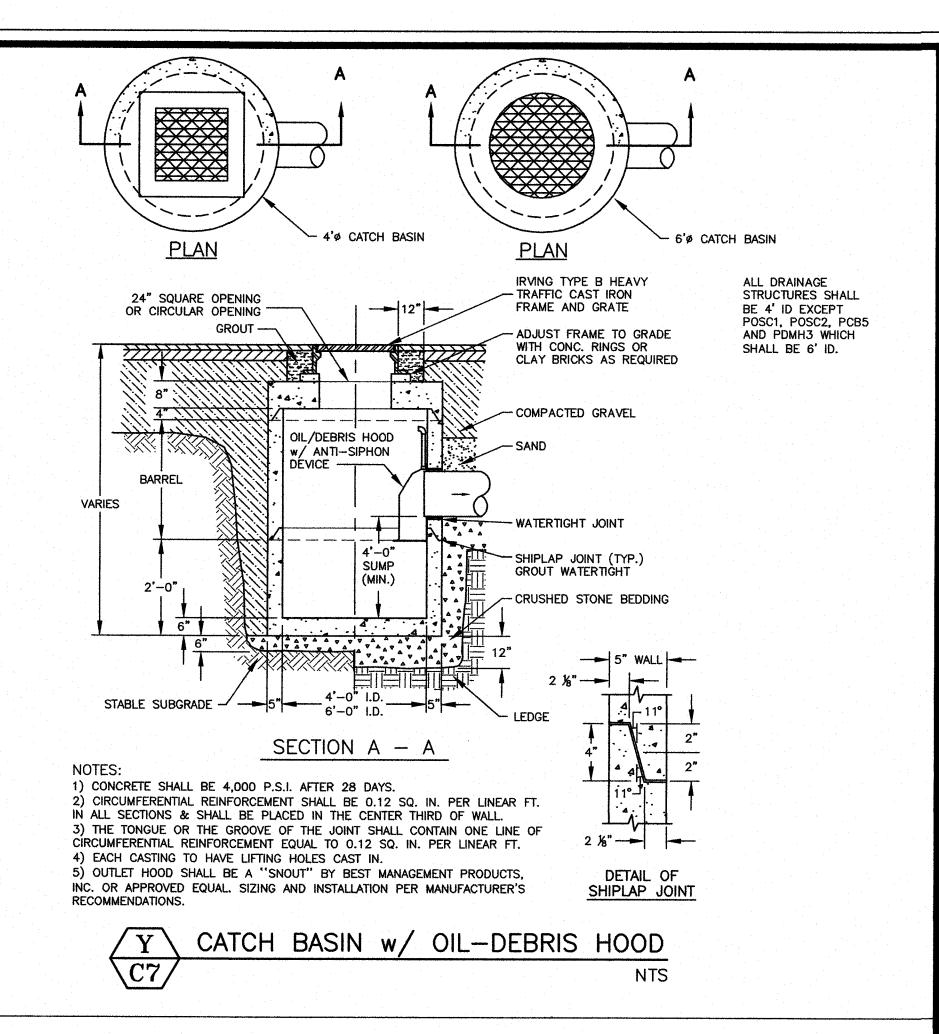
CONCRETE

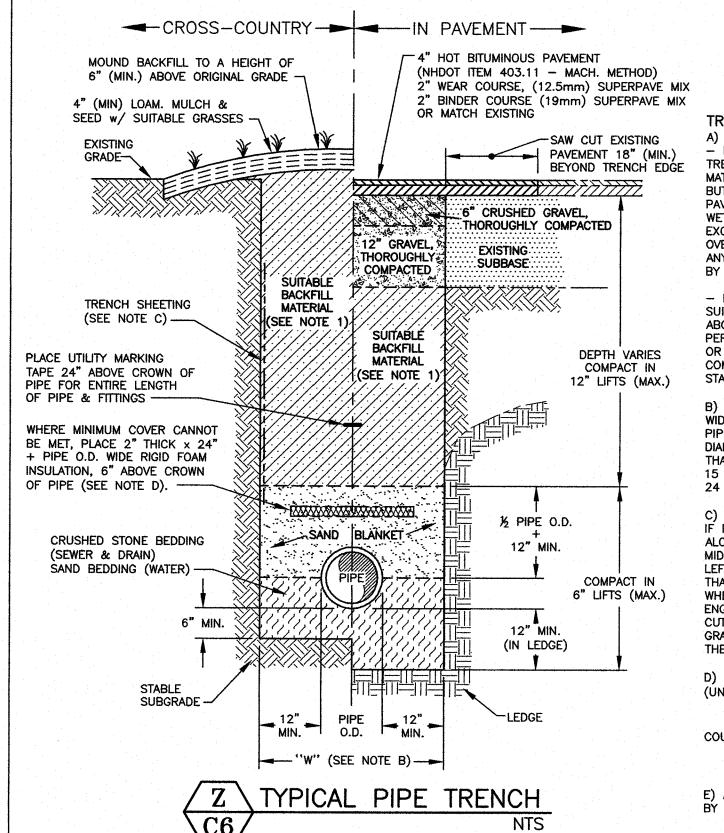
METAL FENCE DETAILS

ELEVATION

SECTION







TRENCH NOTES:

A) TRENCH BACKFILL:

— IN <u>PAVED AREAS</u>, 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 CROSS-COUNTRY 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 STARIF

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.



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:

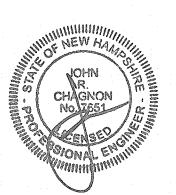
1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

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).

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

2	DETAIL U	3/20/18
1	DETAILS T, W, Z	2/12/18
0	ISSUED FOR COMMENT	12/5/17
NO.	DESCRIPTION	DATE
	REVISIONS	



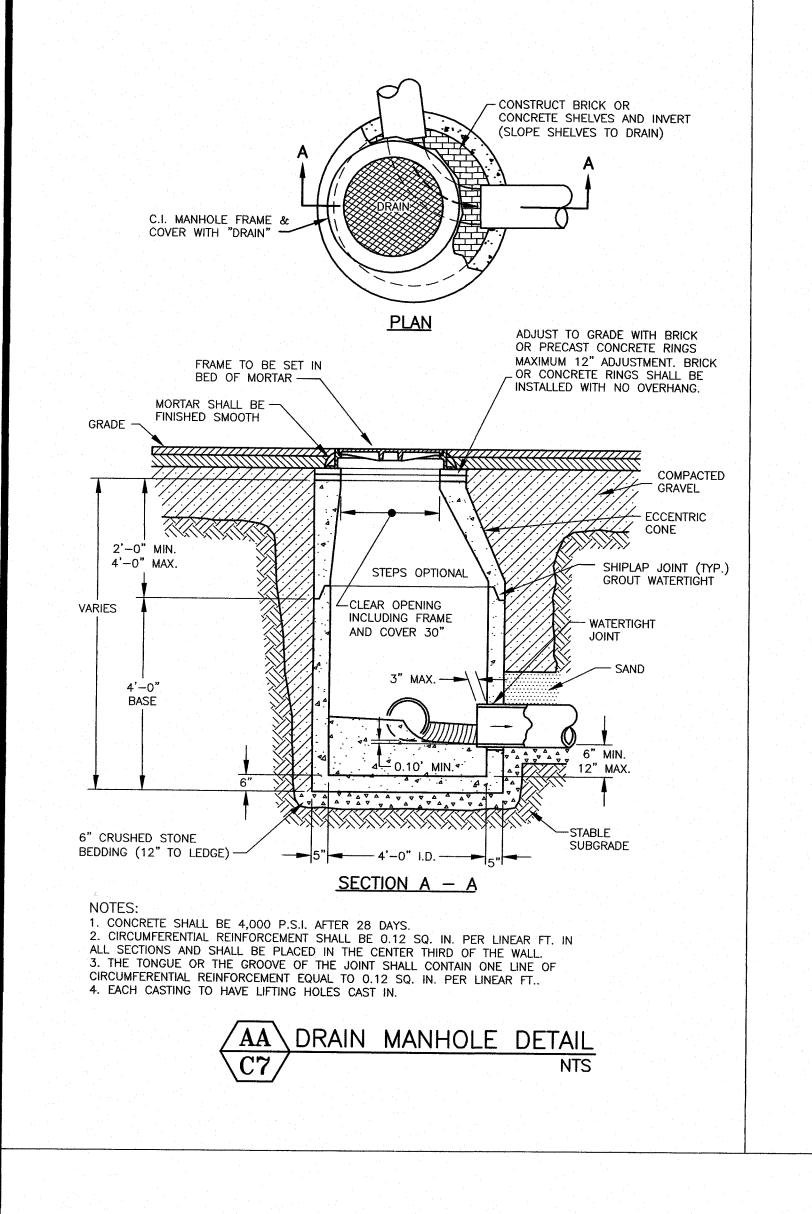
SCALE: AS SHOWN

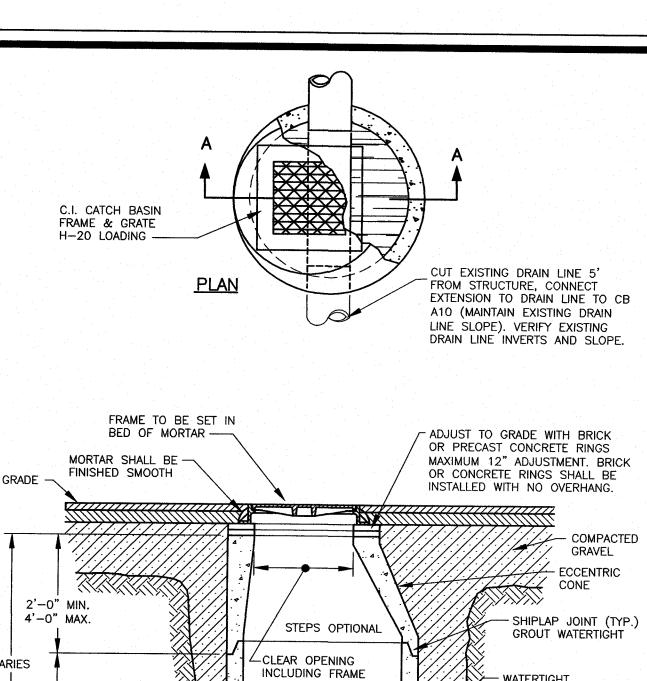
DECEMBER 2017

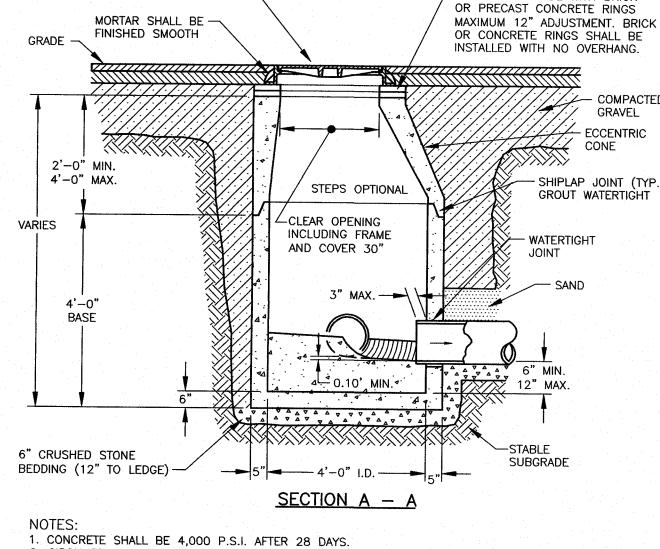
DETAILS

D4

FB168, PG 11









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.

CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT..

4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.

3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF

V2B1 SIZING TABLE V2B1 D1 D2 S IMPERVIOUS INLET TREATMENT PEAK MODEL | (ft.) | (ft.) | (ft.) | AREA PIPE **FLOW FLOW** (acres) (cfs) |4.1±| 0.3 - 1.35 5 4.4± 1.3-2.0 6 | 6 | 5 | 4.7± | 5 4.9± 3.0 - 4.03 - 5 | 9 4.0-5.3 5.3-8.3 7 - 10

MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.

25 | 12 | 8 | 5.9± | 8.3–11.7 | 36 | 10 – 13 DESIGN LOADING: AASHTO HS20-44

PROVIDED TO LICENSED MANUFACTURER BY ENVIRONMENT 21, LLC. 2) LOCATION AND SIZE OF MANHOLE OPENINGS MAY BE ADJUSTED BY LICENSED MANUFACTURER. 3) G.C. TO GROUT INLET AND OUTLET PIPES. 4) CONNECT MANHOLES WITH BOOTED CONNECTIONS. PROPRIETARY INFORMATION: PATENTS PENDING - ALL RIGHTS TO ENVIRONMENT 21, LLC. ENVIRONMENT 21 LLC, TELEPHONE 1-800-809-2801 G.C. TO GROUT ORIENT RADIAL OUTLET GROUT PIPE TO MATCH SITE LAYOUT - GROUT

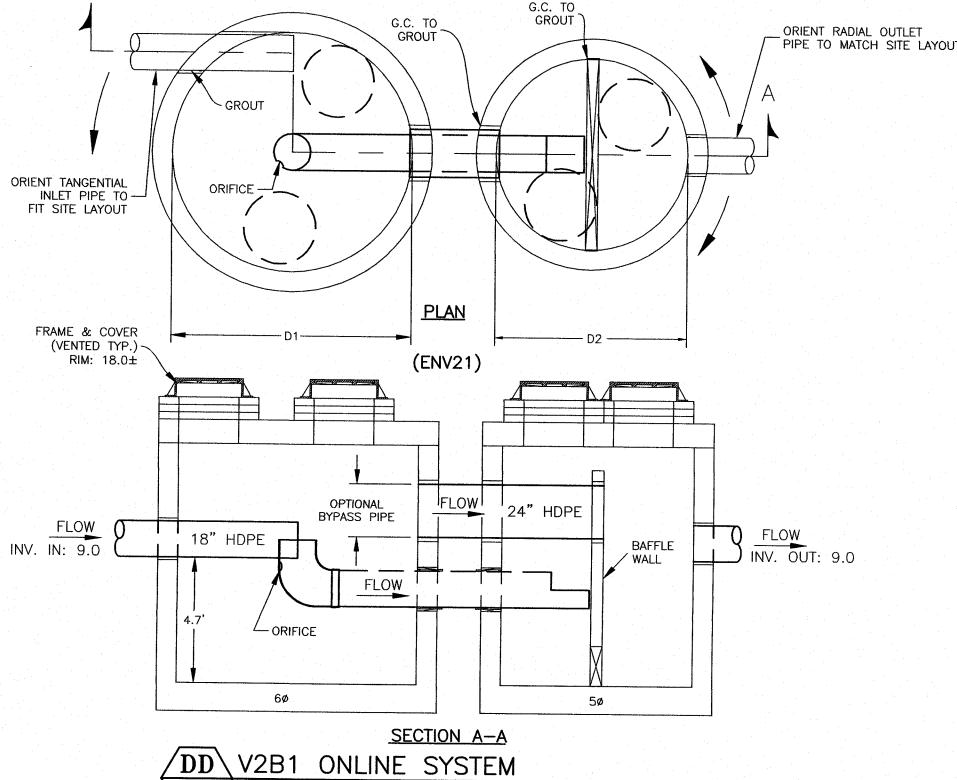
1) RAINFALL INTENSITY USED FOR

1) DESIGN OF INTERNAL PVC PIPING

MANUFACTURING NOTES:

TREATMENT FLOW = 0.80-1.0 IN/HR

2) MAXIMUM OPERATING LOSS APPROXIMATELY 0.5 FT



AMBIT ENGINEERING, INC. Civil Engineers & Land Surveyors

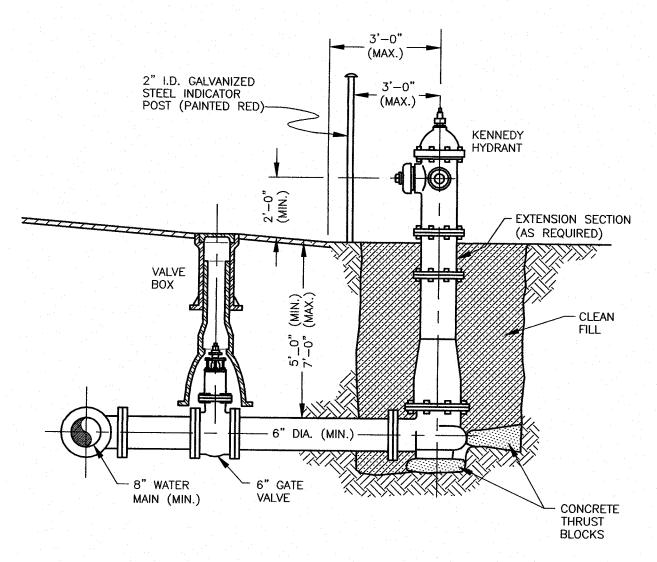
200 Griffin Road - Unit 3 Portsmouth, N.H. 03801-7114 Tel (603) 430-9282 Fax (603) 436-2315

NOTES:

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FIRE HYDRANT INSTALLATION DETAIL

HYDRANT NOTES: 1) HYDRANTS SHALL BE INSTALLED A MAXIMUM DISTANCE OF

ABOVE FINISHED GRADE OF STREET.

3'-0" FROM CURB LINE TO OPERATING NUT. 2) THE PUMPER OUTLET NOZZLE SHALL FACE THE STREET. 3) CENTERLINE OF NOZZLES SHALL BE A MINIMUM OF 2'-0"

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

5) HYDRANT SHALL BE FIRMLY SUPPORTED ALL AROUND THE

6) EARTH FILL SHALL BE TAMPED TO GIVE FIRM SUPPORT TO THE HYDRANT BARREL.

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

8) HYDRANT LATERALS SHALL BE 6" INSIDE DIAMETER (MINIMUM). 9) HYDRANT LATERALS SHALL BE CONNECTED TO WATER MAINS 8" IN DIAMETER OR LARGER.

10) ALL JOINTS AT HYDRANT CONNECTION SHALL BE RESTRAINED MÉCHANICAL JOINTS.

11) INSTALLATION OF HYDRANTS IN AREAS OF HEAVY VEGETATIVE GROWTH SHALL HAVE A 10' RADIUS CLEAR AREA ALL AROUND THE OPERATING NUT OF THE HYDRANT.

12) THERE SHALL ALSO BE AN INDICATOR POST FABRICATED FROM 2" I.D. GALVANIZED STEEL PIPE, 7' ABOVE FINISHED GRADE, AND SET 2' BELOW GRADE IN CLASS "A" CONCRETE CONCRETE, 6" 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' FROM THE OPERATING NUT, AND SET ON THE SIDE OF THE HYDRANT FACING ONCOMING TRAFFIC. TOP OF POST SHALL BE THREADED

13) INSTALLATION OF HYDRANTS IN HEAVY GROWTH AREAS SHALL HAVE GATE BOXES RAISED 6" ABOVE GRADE AND SHALL BE PAINTED ORANGE FOR HIGH VISIBILITY.

					Weel	kday			<u>We</u>	eekend_		<u>Nighttime</u>			
(A) Land Use	Parking Rate per sq. ft. GFA	Gross Floor Floor (Sq. FT)	Required # Spaces	<u>Daytime</u> (8:00 AM- 5:00 PM)		(C) Evening (6:00 PM- Midnight)		(D) Daytime (8:00 AM- 5:00 PM)		(E) Evening (6:00 PM Midnight)		(F) Nighttime (Midnight— 6:00 AM)		(F) Nighttime (Midnight- 6:00 AM)	
Residential 10.1112.31		62,604		60%	62.4	<u>100%</u>	104	<u>80%</u>	83	100%	104	100%	104	100%	104
Office/ Industrial	0.00286 1/350 SF GFA	25231	· .	<u>100%</u>	72.2	<u>20%</u>	14	10%	7	<u>5%</u>	4	<u>5%</u>	4	<u>5%</u>	4
Recreational Yoga Studio	0.004 1/250 SF GFA	5892	24	60%	14.1	90%	21	100%	24	<u>70%</u>	16	<u>5%</u>	1	<u>5%</u>	1
Hotel/Motel		0	0	<u>70%</u>		<u>100%</u>	-	<u>75%</u>	-	100%	-	100%	_	100%	-
Restaurant		0	0	<u>70%</u>	tu	<u>100%</u>	-	80%	•	<u>100%</u>	. -	10%	-	<u>10%</u>	•
Entertainment		0	0	<u>40%</u>		<u>100%</u>		<u>80%</u>	-	<u>100%</u>	•	10%	- -	10%	-
Convention		0	0	<u>100%</u>	-	<u>100%</u>		<u>100%</u>	-	100%	-	<u>5%</u>		<u>5%</u>	-
Place of Worship*		0	0	<u>10%</u>	. 1935 - . 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 1935 - 193	<u>5%</u>	-	<u>100%</u>	_	<u>50%</u>	-	<u>5%</u>	•	<u>5%</u>	-
Other Institutional		0	0	100%	-	20%	~	10%	-	10%	-	<u>5%</u>	-	<u>5%</u>	
Totals					149		140		114		124		109		109
								- 	<u> </u>				105		109

Minimum Parking Requirement

Proposed Parking Spaces

178

SHARED PARKING CALCULATION

Maximum allowed Parking is Total x 1.20 (20%)

Residential Parking Space Calculation Parking Categories Spaces Spaces By Sq. Ft. Required Required > 500 0.5 25 12.5 500 to 750 47 47 Over 750 1.3 20 26 Visitor Parking = 92/5 = 18.4

CHINBURG PROPERTIES 145 BREWERY LANE PORTSMOUTH, N.H.

3 | REVISED DETAIL DD 4/3/18 2 ADDED DETAIL DD 3/20/18 1 DETAILS BB & CC 2/12/18 0 ISSUED FOR COMMENT 12/5/17 NO. DESCRIPTION DATE REVISIONS

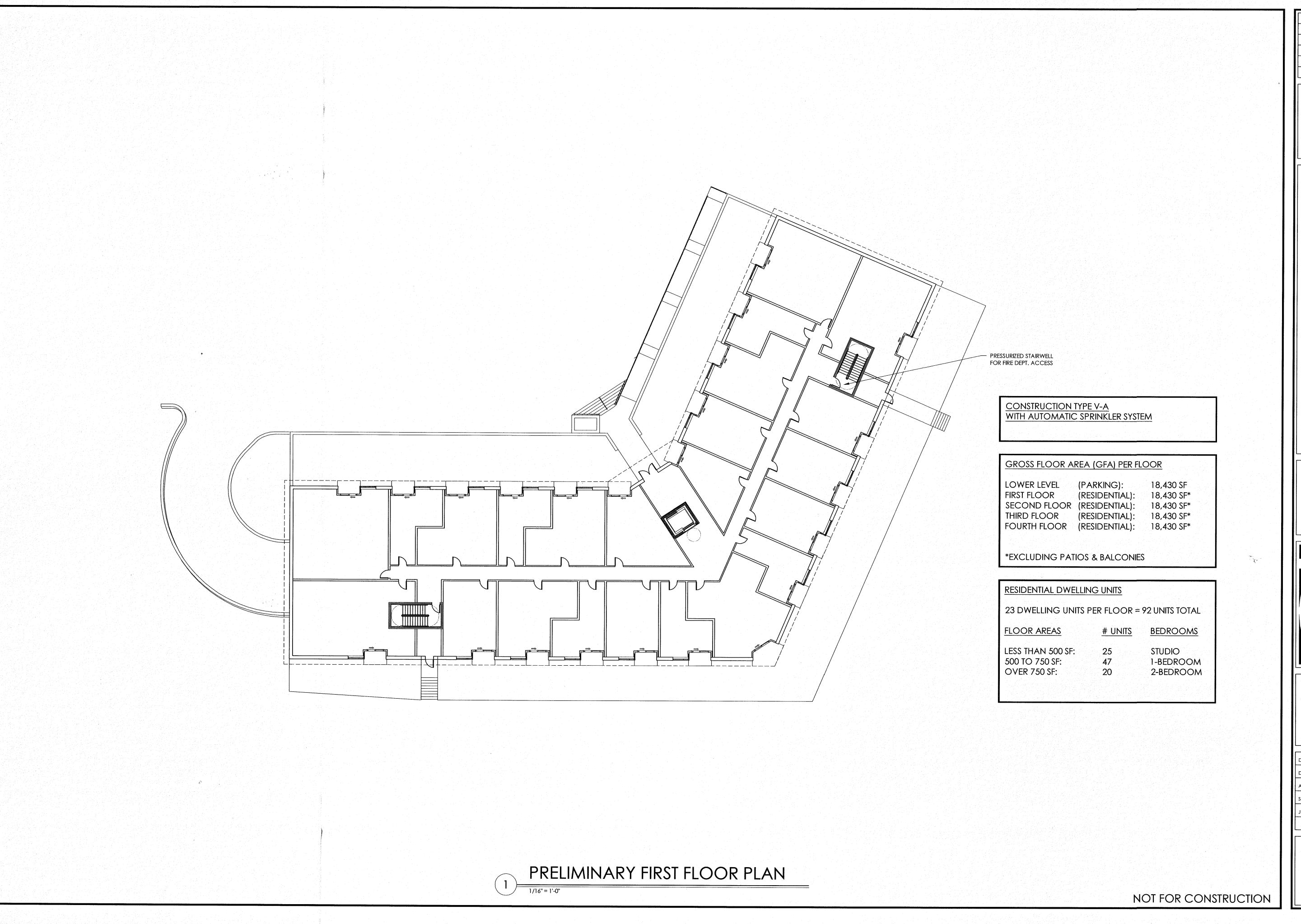
SCALE: AS SHOWN

DECEMBER 2017

DETAILS

FB168, PG 11

104



REVISIONS:

REV 1: 02/12/18

CHINBURG PROPERTIES
145 BREWERY LANE

CJ ARCHITECTS
233 VAUGHAN ST, SUITE 101 (603) 431-2808

PRELIMINARY FIRST FLOOR PLAN

DATE: 12/05/1

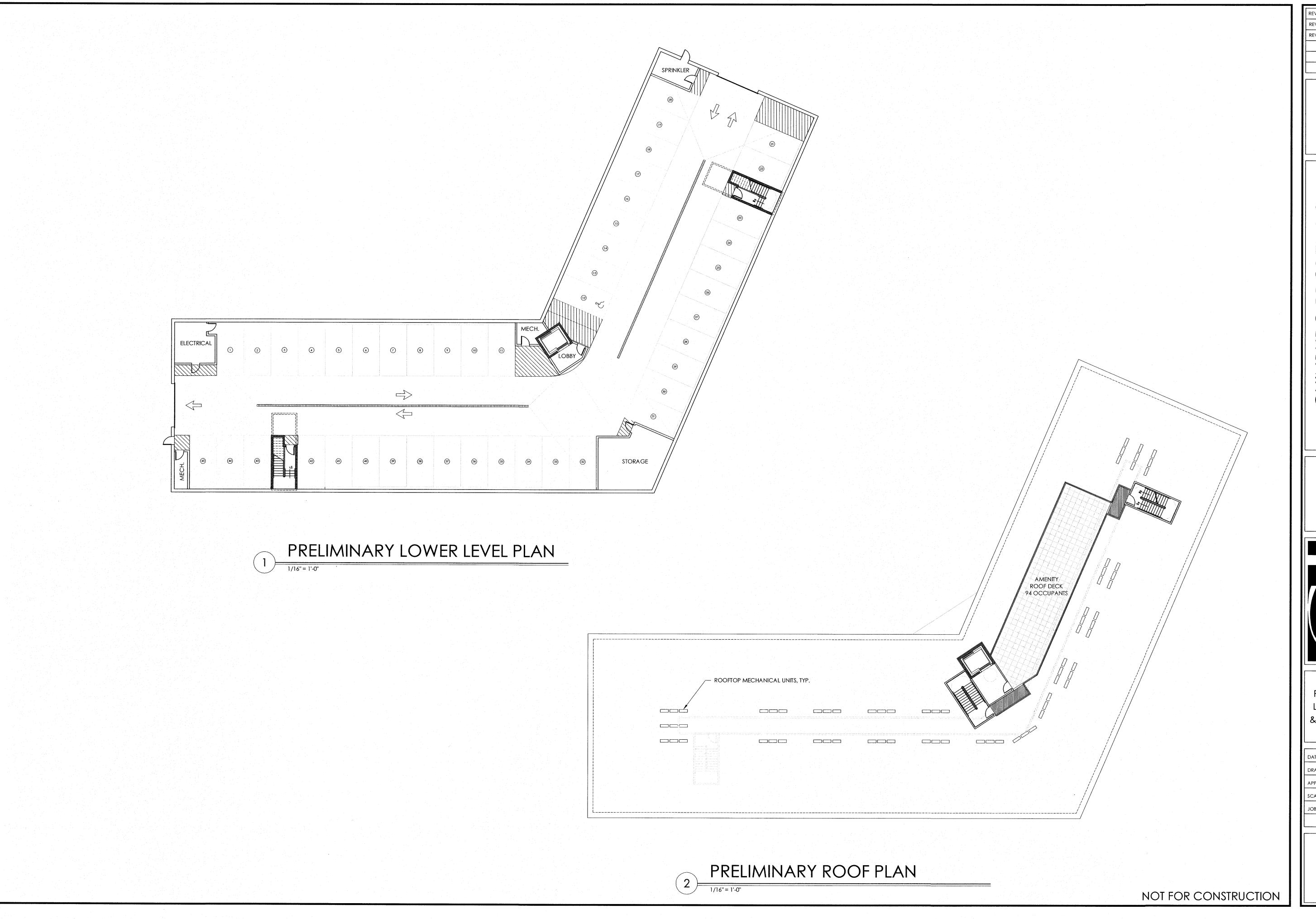
DRAWN BY: WWB

APPROVED BY: CJG

SCALE: NOTED

JOB NUMBER: 21723

A1.0



REVISIONS:

REV 1: 02/12/18

REV 2: 03/20/18

CHINBURG PROPERTIES
145 BREWERY LANE
PORTSMOUTH, NEW HAMPSHIRE



PRELIMINARY LOWER LEVEL & ROOF PLANS

DATE:
DRAWN BY: WWB

APPROVED BY: CJG

SCALE: NOTED

JOB NUMBER: 21723

A1.1



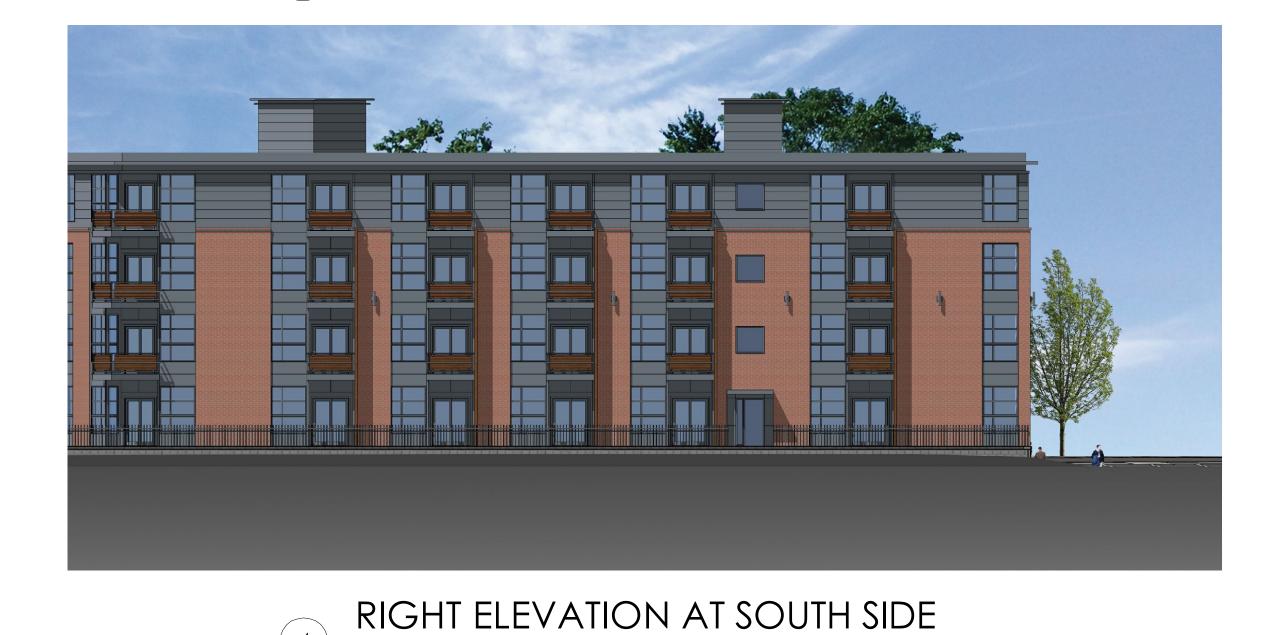


RIGHT ELEVATION AT NORTH SIDE

MAX, APPURENANCE

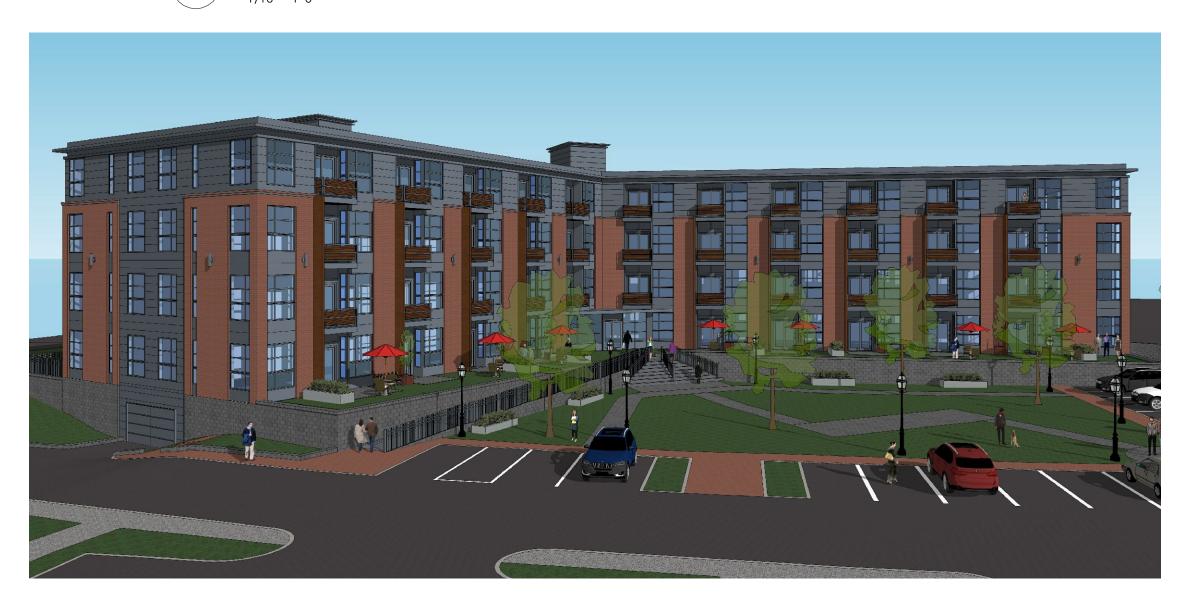
MAX, BUILDING

APPURENANCE



LEFT ELEVATION AT SOUTH SIDE





3D VIEW
NOT FOR CONSTRUCTION

REVISIONS:

REV 1: 02/12/18

CHINBURG PROPERTIES
145 BREWERY LANE

CJARCHITECTS
233 VAUGHAN ST, SUITE 101 (603) 431-2808
PORTSMOUTH, NH 03801 www.cjarchitects.net

PRELIMINARY ELEVATIONS

DATE: 12/05/17

DRAWN BY: WWB

APPROVED BY: CJG

SCALE: NOTED

JOB NUMBER: 21723

A2.0

10 April, 2018

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

RE: Planning Board Approval; Site Plan at 145 Brewery Lane (Map 154 / Lot 2)

Dear Chairman Legg and Planning Board Members:

We hereby submit, on behalf of Chinburg Properties dba as Portsmouth West End Development, LLC, the attached Site Plans for consideration at your April 19, 2018, Planning Board meeting. The site was previously approved for residential apartment use; but those approvals have expired.

The proposed site plan has been modified to comply with the current Character District 4-W (West End) zoning and also utilizes the West End Incentive Overlay District. The proposal is to provide greater than 20% Community Space which allows the project to receive incentives for an additional 10' of building height, a building footprint up to 20,000 square feet, and an increase in the amount of allowable dwelling units.

The project consists of constructing a new 92-unit residential apartment building with covered parking and associated site improvements, landscaping and utilities. The applicant has considered landscaping for storm water treatment, active uses for the community space, easements for those, sidewalk adjustments from 5' to 12', vertical granite curbing along the backs of the buildings, and a raised crosswalk for traffic calming. In addition the applicant has worked with the commercial abutters to integrate the project into the surroundings. In particular a Lot Line Relocation is proposed with the Malt House Exchange, which is also on the agenda for the April 19, 2018 Planning Board meeting. This minor exchange of property will allow for additional parking on the Malt House Exchange property while providing an enhanced landscape buffer to the 145 Brewery Lane site. The applicant has worked with Plaza 800 to identify and plan opportunities for sidewalk connections and landscape screening for the mutual benefit of the properties.

The project was reviewed and approved at the Technical Advisory Committee Meeting on April 3, 2018. The following are responses to the Stipulations of Approval from the TAC Meeting (with responses to address the stipulations shown in **bold text):**

- 1. Engineer shall update the drainage report to reflect that Extreme Precipitation Rates plus 15% were used. The Drainage Analysis has been updated and the requested rates were used in the Analysis.
- 2. Easements deeding public access to the community space shall be provided for review by the Planning Board. Community space easements shall be added to the easement plan. The Plan Set contains Sheet C1A showing the locations of the Proposed Community Spaces as well as the Access Easements.
- 3. The plan shall be revised to remove the metal wire specification in the sidewalk. **Detail L on Sheet D2 has been revised as requested.**
- 4. The rear entrance doors shown for 125 Brewery Lane shall be updated to reflect existing conditions. Sheet C2 has been revised as requested.
- 5. Easements shall be provided for all new public utilities and easement plan shall be updated accordingly. Sheet C6 shows the Existing and Proposed Sewer and Drainage Easements.
- 6. All proposed tree grates shall be shown on sheet C5. Sheet C5 has been revised as requested.
- 7. Remove select landscaping at northeast side of 145 Brewery Lane building next to garage entrance to allow for access to fire department connection. Sheet LA 3.0 has been revised as requested.
- 8. Revise proposed sidewalk on west side of Brewery Lane at Plaza 800 entrance to follow the existing curb line. Sheet C5 has been revised as requested.
- 9. Add sidewalks with tip downs to both landscaped islands behind the existing 155 Brewery Lane building to connect to the sidewalks on either side of the driveway. Sheet C5 has been revised as requested.
- 10. More clearly distinguish open space and community space on Sheet OC. Sheet C1A has been added to the Plan Set.
- 11. Add all-way signs to existing stop signs at Brewery Lane intersection with Plaza 800 and re-install as necessary to comply with MUTCD height and location requirements. Sheet C5 / Note 18 has been revised / added as requested.
- 12. Provide signage details in plan set. Detail DD on Sheet D1 has been added as requested.
- 13. Add note to site plan regarding required NHDES approvals noted under conditions precedent. Sheet C5 has been revised as requested.
- 14. Add more street trees along Plaza 800 side extending toward Brewery Lane. Sheet LA 7.0 has been revised as requested.
- 15. CBIA under new Jewell Court sidewalk shall be removed. Sheet C4 has been revised as requested.
- 16. Provide profile and grading plan for resurfacing of Brewery Lane from Jewell Court to Plaza 800. Sheet P4 has been added as requested.
- 17. PCB 1 on Chevrolet Ave shall be moved to a lower grade than sewer manhole, or otherwise adjusted to ensure it functions as proposed. **Sheet C7 has been revised as requested.**
- 18. Applicant shall review the stormwater surface drainage from the parking lot at 95 Brewery Lane to avoid negatively impacting proposed landscape areas. We believe the

storm water drainage pattern works as designed to direct runoff to a swale which flows to catch basin PCB DH. By agreement with the Malt House Exchange the proposed fence will be elevated above the ground surface to allow water to pass.

19. Add generator to site plan. Sheet C5 has been revised to label the proposed generator as requested.

20. Correct miss-labeled 12" to 12'. This has been revised on Sheet C5.

21. Provide a note on the plan to be recorded that the Owner is responsible, in perpetuity, for the operation, inspection, maintenance, and reporting for the stormwater BMP's, and reference to the Inspection & Maintenance requirements included in the Drainage Report should be made. Sheet C5 has been revised as requested to add Approval Condition Note 3.

In addition the Technical Advisory Committee Approval contained *Conditions Precedent* to Building Permit Approval. The following stipulations were added as Notes A-C on Sheet C5:

- 1. The developer shall contact NHDES to review proposed impacts to the existing monitoring wells as a result of the proposed construction and secure a written decision/approval for the site plan as it relates to the monitoring wells. Developer shall be responsible for any relocation, adjustment, or abandonment of any of the wells as approved by the NHDES.
- 2. The developer shall provide an access easement to the City to continue to sample the monitoring wells.
- 3. The developer shall coordinate with NHDES to secure any necessary approvals / permits for removal / disturbance of soil on the site within the Groundwater Management Zone and documentation of these approvals shall be provided to the City.

Attached to this submittal please find copies of supplemental information for this project. We look forward to meeting with the Planning Board on April 19. Please feel free to call to discuss any question there may be about this project.

Sincerely,

John Chagnon, PE; Ambit Engineering, Inc.

CC: Eric Chinburg, CJ Architects, g2 plus 1 LLC, file

COLLIANDER & BROWN

April 5, 2018

Professional Association



Attorneys At Law

Old City Hall Building 126 Daniel Street Portsmouth New Hampshire 03801-3856 City of Portsmouth Planning Board and Planning Director Portsmouth City Hall 1 Junkins Avenue Portsmouth, NH 03801

RE:

Portsmouth West End Development, LLC

145 Brewery Lane Tax Map 154 Lot 2

Tel: (603) 433-9997 Fax: (603) 433-9998

To Whom It Concern:

Attorneys Admitted to Practice

John D. Colliander 1971 NY 1973 NH & MA

> David S. Brown 1979 NH

Please be advised that Griffin Family Corporation, owner of Plaza 800, and abutter to the above project, has no objection to the light spill over the property line and onto the Plaza 800 property as proposed by the project plans on file and pending before the Planning Board.

Thank you.

Very truly yours,

Althu

David S. Brown

Acknowledgement of Griffin Family Corporation

The undersigned, as President of Griffin Family Corporation, agrees and confirms the above statement of no objection, on behalf of the corporation.

Peter Griffin, President

ADDITIONAL SUBMITTAL INFORMATION

FOR

SITE REDEVELOPMENT

Chinburg Properties 145 Brewery Lane

April 10, 2018

- Site Review Application
- Statement of Authorization
- Site Plan Review Application Fee
- Site Cost Estimate
- Will Serve Letter Eversource
- Will Serve Unitil
- Site Access Agreement for Monitoring Wells
- Trip Generation Memo
- Green Space/Community Space Calculation
- Access to Community Space Exhibit
- Vehicle Turning Exhibits (Firetruck, Garbage Truck, Ambulance)
- Shared Parking Calculation/Residential Parking Calculation(on plans)
- Drainage Analysis (separate report)
- Proposed Green Building Components
- R.W. Gillespie. Boring Logs
- Sidewalk Easement/Chris Keenan remedy to dissolve easement
- Historic Griffin Family Corporation Access Letter



20 March, 2018

Ms. Juliet Walker, Chair City of Portsmouth Technical Advisory Committee 1 Junkins Avenue Portsmouth, NH 03801

RE: Resubmittal for TAC Meeting; Site Plan at 145 Brewery Lane (Map 154 / Lot 2)

Dear Ms. Walker and TAC members:

We hereby resubmit, on behalf of Chinburg Properties dba as Portsmouth West End Development, LLC., the attached Site Plan for consideration at your April 3, 2018, TAC meeting. The site was previously approved for residential apartment use; but those approvals have expired.

The proposed site plan has been modified to comply with the current Character District 4-W (West End) zoning and also utilizes the West End Incentive Overlay District. The proposal is to provide greater than 20% Community Space which allows the project to receive incentives for an additional 10' of building height, a building footprint up to 20,000 square feet, and an increase in the amount of allowable dwelling units.

The project consists of constructing a new 92-unit residential apartment building with underground parking and associated site improvements, landscaping and utilities. The applicant has considered landscaping for storm water treatment, active uses for the community space, easements for those, sidewalk adjustments from 5' to 12', vertical granite curbing along the backs of the buildings, and a raised crosswalk.

The project was reviewed at a TAC Meeting on February 27, 2018. The following are responses to comments from the TAC Meeting (responses are shown in **bold text):**

1. With the high number of pedestrians expected to be generated by the new residential units, the applicant should provide better pedestrian facilities and connectivity to the surrounding neighborhood, including: a sidewalk down Brewery and Albany Streets to Cass Street, a sidewalk on Jewell Court to Islington Street, a sidewalk down Chevrolet Avenue. Note: In a subsequent email the City identified the following:

Build or contribute funds to City to construct a sidewalk along Jewell Court (on the Sherwin Williams side). We feel this is an essential component of the site's desired strong pedestrian connection to Islington St. TAC's estimate for the sidewalk construction is \$60K. We also feel that the Chevrolet Ave connection is an important component of your overall pedestrian connectivity. We would like to recommend a fair share contribution to be used for the City to construct the

sidewalk all the way to Cass Street. We recognize that you are already constructing sidewalks along your frontage, but without the connectivity to Cass St, the benefit of those sidewalks is limited. The total estimated construction costs for the sidewalk to Cass St (excluding Right-of-Way) is about \$60K. We recommend that you contribute 1/3 of that cost (\$20K). The City will likely want you to maintain the sidewalks around your site, so we will want to have a maintenance agreement in place as part of this approval.

The developer agrees to fund these off-site improvements with contributions to a designated fund specifically for that purpose. In addition to the extent that the sidewalks remain on the developer's property the developer is agreeable to the maintenance provision.

- 2. What is the groundwater elevation, and what about infiltration? Test Pits were performed to determine suitability for infiltration on the site. These test pits indicate that the estimated seasonal high water table varies from elevation 10 to 12, and that infiltration in the parking lot islands is not possible given the permeability of the lower layers of natural soil.
- 3. Will the site as proposed need dewatering? The groundwater elevation at the building is below the garage floor elevation. We do not anticipate dewatering for the new building. We anticipate that temporary dewatering for utilities may be needed.
- 4. No metal wire should be placed in sidewalks on public land. We revised the sidewalk details, removing the metal wire specification.
- 5. 3rd Party inspection for all on site utility work. The utility plan and inspection notes were revised to add 3rd Party inspection.
- 6. The plans should show a clear open space layer that includes the proposed community space areas and types (including the SF for each area). The open space figures seem inconsistent between the table and the notes. We provided a revised exhibit with open space and community space areas clearly indicated. We will provide an easement plan that will be recorded, showing access to the public spaces, as a condition of approval
- 7. The entrance spacing should be shown for all buildings. We added door locations for all buildings on Sheet C5.
- 8. The site plan should be changed to remove the outbuilding table as there isn't an accessory or outbuilding in the project. Planning staff has determined that we can treat the rear building as another principal building. As requested, we have removed the outbuilding from the Table on Sheet C5.
- 9. The parking requirements should be fully detailed on the plan set. The shared parking analysis has been provided on Sheet D5 Detail EE.
- 10. Public access easements should be clearly shown for all infrastructure and community space areas. Public access easements shall be shown on an easement plan to be provided for review and approval as a condition of approval. Provide easement plan for new utility (sewer, drainage) easement. An easement plan for the new public utilities shall be provided for review and approval as a condition of approval.

- 11. If possible, remove the 5 parking spaces along Brewery Lane as they prevent a sidewalk connection and the vehicles overhang into the street. The parking spaces along Brewery Lane have been replaced with a 12' wide concrete sidewalk.
- 12. How does present design comply with NFPA 1 Fire Code, Section 18.2.3.2.1 concerning FD access to the building? As discussed at the 2-27-18 TAC meeting we revised the access width to 14'. The area shall be cleared of snow edge to edge in the winter.
- 13. The landscape plan should include the required statements per Section 2.13.4 of the Site Plan Review Regulations. The Master Landscape Plan, Sheet C8, has been revised with these required notes. We anticipate recording this plan.
- 14. The checklist submitted references the supplementary information for information pertaining to where dark sky friendly measures have been implemented. The applicant should clarify where it is addressed in the supplemental info. We are including catalogue cuts in the Supplemental Information which verifies that the selected fixtures are Dark Sky Compliant.
- 15. Clarify building sewer connection to sewer main. Sheet.P2 indicates there is a connection to new PSMH1. Sheet.P1 and Sheet.C6 appear to show second sewer connection to SMH 5B. We would like to construct 2 sewer connections, given the length of the building. We propose one connection at each end of the structure.
- 16. Label proposed utility connections (sewer, water, drainage, roof) on utility plan with pipe type, size, inverts, slopes, etc. The Utility Plan C7 and Profile Plans, P1-P3 have been updated with corresponding Pipe Labels which lead to the detail information in the tables.
- 17. What is groundwater elevation/separation distance from bottom of proposed filtration (infiltration) basins? Test Pits 1 and 2 beneath the Filtration Islands indicate that the water table is 3.5' to 3.75' below the existing grade. We are proposing to isolate the filtration with a PVC membrane.
- 18. Provide design/detail for proposed water quality unit. Show unit on plan. See Sheet C5 and Detail DD Sheet D5 for plan view and detail.
- 19. Clarify PSOC3 shown on Sheet C7. **PSOC3 has been removed and replaced with the Water Quality Unit shown as Detail DD on Sheet D5.**
- 20. Provide contours/direction of flow arrows for stormwater runoff. Flow arrows have been shown on Sheet W2 (Proposed Subcatchment Plan).
- 21. Provide details for infiltration (filtration) basins including overflow structures, connections to drainage pipes, etc. Details have been added for the Filtration Islands on Sheet D4, Detail U.
- 22. Drainage analysis questions/comments: How is offsite runoff flowing through the considered/modeled? How are filtration basins/ponds modeled? The offsite flow from Plaza 800 is maintained through a dedicated 24" RCP back to the City Easement at PDMH3. The stormwater from Chevrolet Avenue is picked up in PCB1, then to PCB2, then into Existing DMH 4B. The Filtration Basins are modeled so the storm water flows through them into the existing Storm Water System PCB5 and DMH 19.

In an email subsequent to the TAC Meeting on February 27 the City identified the following additional comments (with response in **bold text**):

Parking:

- 1) Eliminate existing 5 spaces next to 125 Brewery Lane, extend sidewalk to 5' minimum width (6' where feasible) and remove / relocate gas meter. See Response above; done.
- 2) Add 6 on-street spaces next to 12' sidewalk along 155 Brewery Lane including street trees along street edge. Given the addition of parallel parking spaces would reduce the available landscape area to approximately 2 feet in width we prefer to have the expanded planting area available for some street trees. Currently there is no access to the existing building along this face; so we don't feel that adding parking serves this site.
- 3) On Chevrolet Ave side, add 6 new on-street parking spaces next to 12' wide sidewalk with street trees along street edge. The addition of parallel parking spaces would reduce the green area abutting the adjacent neighborhood. We don't feel that adding parking warrants this intrusion in to the buffer.
- 4) We would like to be able to gauge on-site parking demand pre and post-construction. That would require a parking usage analysis (by a qualified consultant) prior to construction and then within 1-year after the full occupancy. The developer is willing to engage a consultant prior to construction as outlined; however the developer is not agreeable to the future study.

Traffic

1) We feel that a contribution to improving the Bartlett Street signal on Islington Street is warranted. Our recommendation is \$25K. The developer is agreeable to this contribution towards a dedicate fund for that purpose.

Chevrolet Ave

- 1) We have not confirmed whether we will want to take Chevrolet over as a city road, so that will require some further discussion. This project should be allowed to proceed at this time without additional delays.
- 2) We would like to discuss options for an all-season buffer (e.g. arborvitae) along the side of Chevrolet Avenue that fronts on the natural space. For the purpose of limiting light trespass to the neighborhood at Aldrich Court. This has been added to the site landscaping.

Attached to this application please find copies of supplemental information for this project. We look forward to meeting with you and the Technical Advisory Committee on April 3rd. Please feel free to call to discuss any question there may be about this project in the meantime. We are available to meet prior to the meeting if desired.

Sincerely,

John Chagnon, PE; Ambit Engineering, Inc.

Enclosures: 10 Plan Sets (4 Large, 6 small), PDF of files on a disc, Supplemental Information CC: Eric Chinburg, CJ Architects, g2 plus 1 LLC, file



City of Portsmouth, New Hampshire Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. A pre-application conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. <u>Waiver requests must be submitted in writing with appropriate justification</u>.

Name of Owner/Applicant: Portsmouth West End Development LLCDate Submitted:2/12/2018					
hone Number: Ambit (603) 430-9282 E-mail: jrc@ambitengineering.com					
Site Address: 145 Brewery Lane, Portsmouth, NI	H 03801	Map: <u>154</u> Lot: <u>2</u>			
Project: 145 Brewery Lane Zoning District:	Character District W-4	Lot area: 206,319 sq. ft.			

	Application Requirements			
V	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)	Waiver Requested	
Ø	Fully executed and signed Application form. (2.5.2.3)	ON FILE AT CITY	N/A	
	All application documents, plans, supporting documentation and other materials provided in digital Portable Document Format (PDF) on compact disc, DVD or flash drive. (2.5.2.8)	ON FILE AT CITY	N/A	

	Site Plan Review Application Required Information			
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested	
☑	Statement that lists and describes "green" building components and systems. (2.5.3.1A)	Supplemental Information		
	Gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1B)	Architectural Plan A1.0		
Ø	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1C)	SHEET C1/COVER SHEET		
Ø	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1D)	COVER SHEET		

	Site Plan Review Application Required Information				
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1E)	SHEET C1			
	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1F)	COVER SHEET			
Ø	List of reference plans. (2.5.3.1G)	SHEET C1			
Ø	List of names and contact information of all public or private utilities servicing the site. (2.5.3.1H)	COVER SHEET			

	Site Plan Specifications				
V	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
卤	Full size plans shall not be larger than 22 inches by 34 inches with match lines as required, unless approved by the Planning Director. Submittals shall be a minimum of 11 inches by 17 inches as specified by Planning Dept. staff. (2.5.4.1A)	Required on all plan sheets	N/A		
□	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be included on all plans. (2.5.4.1B)	Required on all plan sheets	N/A		
卤	GIS data should be referenced to the coordinate system New Hampshire State Plane, NAD83 (1996), with units in feet. (2.5.4.1C)	Required on all plan sheets	N/A		
□	Plans shall be drawn to scale. (2.5.4.1D)	Required on all plan sheets	N/A		
Ø	Plans shall be prepared and stamped by a NH licensed civil engineer. (2.5.4.1D)	Required on all plan sheets	N/A		
	Wetlands shall be delineated by a NH certified wetlands scientist. (2.5.4.1E)	N/A	N/A		
	Wetland delineations shall be stamped by a NH certified wetlands scientist. (2.5.4.1E)	N/A	N/A		
Ø	Title (name of development project), north point, scale, legend. (2.5.4.2A)	Required on all plan sheets	N/A		
Ø	Date plans first submitted, date and explanation of revisions. (2.5.4.2B)	Required on all plan sheets	N/A		
Ø	Individual plan sheet title that clearly describes the information that is displayed.	Required on all plan sheets	N/A		

	Site Plan Specifications		
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	(2.5.4.2C)		
Ø	Source and date of data displayed on the plan. (2.5.4.2D)	Required on all plan sheets	N/A
	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	Required on all plan sheets COVER SHEET	N/A
	Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "All improvements shown on this Site Plan shall be constructed and maintained in accordance with the Plan by the property owner and all future property owners. No changes shall be made to this Site Plan without the express approval of the Portsmouth Planning Director." (2.13.3)	SHEET C5	N/A
Ø	Plan sheets showing landscaping and screening shall also include the following additional notes: a. "The property owner and all future property owners shall be responsible for the maintenance, repair and replacement of all required screening and landscape materials." b. "All required plant materials shall be tended and maintained in a healthy growing condition, replaced when necessary, and kept free of refuse and debris. All required fences and walls shall be maintained in good repair." c. "The property owner shall be responsible to remove and replace dead or diseased plant materials immediately with the same type, size and quantity of plant materials as originally installed, unless alternative plantings are requested, justified and approved by the Planning Board or Planning Director." (2.13.4)	LANDSACPE PLAN	N/A

		Site Plan Specifications – Required Exhibits	and Data	
	1.	Existing Conditions: (2.5.4.3A)	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	a.	Surveyed plan of site showing existing natural and built features;	SHEET C2	
	b.	Zoning boundaries;	COVER SHEET	
Ø	C.	Dimensional Regulations;	SHEET C5	
	d.	Wetland delineation, wetland function and value assessment;	N/A	
	e.	SFHA, 100-year flood elevation line and BFE data.	N/A	
	2.	Buildings and Structures: (2.5.4.3B)		
回	a.	Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation;	SHEET C5	
☑	b.	Elevations: Height, massing, placement, materials, lighting, façade treatments;	Arch Plan A2.0	
	c.	Total Floor Area;	SHEET C5	
Ø	d.	Number of Usable Floors;	SHEET C5	
	e.	Gross floor area by floor and use.	Arch A1.0, SHT C5	
	3.	Access and Circulation: (2.5.4.3C)		
Ø	a.	Location/width of access ways within site;	SHEET C5	
À	b.	Location of curbing, right of ways, edge of pavement and sidewalks;	SHEET C5	
☑	C.	Location, type, size and design of traffic signing (pavement markings);	SHEET C5	
D	d.	Names/layout of existing abutting streets;	SHEET C5	
	e.	Driveway curb cuts for abutting prop. and public roads;	N/A	
	f.	If subdivision; Names of all roads, right of way lines and easements noted;	N/A	
	g.	AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC).	SHEET C5/ SUPPLEMENTARY INFORMATION	1
	4.	Parking and Loading: (2.5.4.3D)		
Ø	a.	areas/buffers;	SHEET C5	
\square	b.	Parking Calculations (# required and the # provided).	SHEET C5	
	5.	Water Infrastructure: (2.5.4.3E)		
Ø	a.	Engineering data;	SHEET C6	
Ø	b.		SHEET C1	
_	6.	Sewer Infrastructure: (2.5.4.3F)		
☑	a.	data.	SHEET C7	
	7.	Utilities: (2.5.4.3G)		
Ø	a.	The size, type and location of all above & below ground utilities;	SHEET C6	
	b.	Size type and location of generator pads, transformers and other fixtures.	SHEET C6	
	8.	Solid Waste Facilities: (2.5.4.3H)		
		a. The size, type and location of solid waste facilities.	SHEET C5	
	9.	Storm water Management: (2.5.4.3I)	Item Location	Waiver Requested

\square	a. The location, elevation and layout of all storm-water drainage.	SHEET C6
	10. Outdoor Lighting: (2.5.4.3J)	
M	a. Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and;b. photometric plan.	SHEET LT1
Image: section of the content of the	 Indicate where dark sky friendly lighting measures have been implemented. (10.1) 	SUPPLEMENTARY INFORMATION
	12. Landscaping: (2.5.4.3K)	
Ø	 a. Identify all undisturbed area, existing vegetation and that which is to be retained; 	SHEET C4
	b. Location of any irrigation system and water source.	TBD
	13. Contours and Elevation: (2.5.4.3L)	
Ø	a. Existing/Proposed contours (2 foot minimum) and finished grade elevations.	SHEET C7
	14. Open Space: (2.5.4.3M)	
図	a. Type, extent and location of all existing/proposed open space.	SHEET C5
Ø	All easements, deed restrictions and non-public rights of ways. (2.5.4.3N)	SHEET C1
Ø	Location of snow storage areas and/or off-site snow removal. (2.5.4.30)	SHEET C5
Ø	17. Character/Civic District (All following information shall be included): (2.5.4.3Q)	
	a. Applicable Building Height (10.5A21.20 & 10.5A43.30);	SHEET C5
	b. Applicable Special Requirements (10.5A21.30);	SHEET C5
	c. Proposed building form/type (10.5A43);	SHEET C5
	d. Proposed community space (10.5A46).	SUPPLEMENTARY INFORMATION

	Other Required Information				
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
Ø	Traffic Impact Study or Trip Generation Report, as required. (Four (4) hardcopies of the full study/report and Six (6) summaries to be submitted with the Site Plan Application) (3.2.1-2)	SUPPLEMENTARY INFORMATION			
Ø	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	SUPPLEMENTARY INFORMATION			
	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	N/A			
Ø	Indicate where measures to minimize impervious surfaces have been implemented. (7.4.3)	SUPPLEMENTARY INFORMATION			
Ø	Calculation of the maximum effective impervious surface as a percentage of the site. (7.4.3.2)	SUPPLEMENTARY INFORMATION			
Ø	Stormwater Management and Erosion Control Plan. (Four (4) hardcopies of the full plan/report and Six (6) summaries to be submitted with the Site Plan Application) (7.4.4.1)	SUPPLEMENTARY INFORMATION			

Final Site Plan Approval Required Information

Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested	
Ø	All local approvals, permits, easements and licenses required, including but not limited to: a. Waivers; b. Driveway permits; c. Special exceptions; d. Variances granted; e. Easements; f. Licenses. (2.5.3.2A)	a. NONE b. N/A c. N/A d. N/A e. SHEET C1 f. SHEET C1		
	Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: a. Calculations relating to stormwater runoff; b. Information on composition and quantity of water demand and wastewater generated; c. Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; d. Estimates of traffic generation and counts pre- and post-construction; e. Estimates of noise generation; f. A Stormwater Management and Erosion Control Plan; g. Endangered species and archaeological / historical studies; h. Wetland and water body (coastal and inland) delineations; i. Environmental impact studies. (2.5.3.2B)	a. SUPPLEMENTARY INFO b. SHEET C1 c. SUPPLEMENTARY INFO d. SUPPLEMENTARY INFO e. N/A f. SHEET C1 g. SUPPLEMENTARY INFO h. SUPPLEMENTARY INFO i. N/A		
Ø	A document from each of the required private utility service providers indicating approval of the proposed site plan and indicating an ability to provide all required private utilities to the site. (2.5.3.2D)	TO BE PROVIDED		
	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)	COVER SHEET		
Applicant's Signature: Date:				
Revie	ewed by: Date Reviewed	d:		

16 January, 2018

To Whom It May Concern

RE: Client Representation for a Development at 145 Brewery Lane

This letter is to inform the City of Portsmouth, 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,

Chingburg Properties

Authorized Representative

Penstock Way Newmarket, NH 03857

603.868.5995

Site Plan Review Application Fee

Project:	145 Brewery Lane	Map/Lot: 154 / 2
Applicant:	Portsmouth West End Development LLC	
All developm	ent	
Base fee \$500)	\$500.00
Plus \$5.00 pe	r \$1,000 of site costs Site costs \$872,414	+ \$4,362.07
Plus \$10.00 p	er 1,000 S.F. of site development area Site development area 135,000	S.F. + \$1,350.00
		Fee \$6,212.07
Maximum fee	e: \$15,000.00	
Fee received	by:	Date:

Note: Initial application fee may be based on the applicant's estimates of site costs and site development area. Following site plan approval, the application fee will be recalculated based on the approved site plan and site engineer's corresponding site cost estimate as approved by the Department of Public Works, and any additional fee shall be paid prior to the issuance of a building permit.

Revised Construction Cost Estimate

Ambit Engineering

Date: January 15, 2018

Project: Chinburg Properties - 145 Brewery Lane Job No: 830.01

Location: 145 Brewery Lane, Portsmouth, NH

Scope: Site Cost Estimate

ITEM NO.	DESCRIPTION	UNIT	AMOUNT	UNIT COST	TOTAL
1	12" PVC Sewer	LF	274	\$80.00	\$21,920.00
2	12" HDPE Pipe	LF	482	\$70.00	\$33,740.00
3	24" HDPE Pipe	LF	199	\$70.00	\$13,930.00
4	4' Catch Basin	EA	5	\$2,500.00	\$12,500.00
5	Trench Drain	LF	40	\$50.00	\$2,000.00
6	4' DMH	EA	4	\$3,000.00	\$12,000.00
7	4' SMH	EA	2	\$3,000.00	\$6,000.00
8	Outlet Control Structure	EA	2	\$10,000.00	\$20,000.00
9	Common Excavation	CY	3100	\$20.00	\$62,000.00
10	2 1/2 " Base Course	TON	920	\$100.00	\$92,000.00
11	1 1/2 " Wearing Course	TON	552	\$100.00	\$55,200.00
12	Reclaim Existing Pavement	LS	1	\$5,000.00	\$5,000.00
13	Roadbed Excavation	CY	500	\$10.00	\$5,000.00
14	Electrical Conduit (5")	LF	200	\$55.00	\$11,000.00
15	Telephone / Cable Conduits (4")	LF	200	\$50.00	\$10,000.00
16	2" fire Alarm conduit	LF	200	\$45.00	\$9,000.00
17	Crushed Gravel	CY	1031	\$25.00	\$25,775.00
18	Bank Run Gravel	CY	2063	\$18.00	\$37,134.00
19	Dumpster Pad and Enclosure	LS	1	\$6,000.00	\$6,000.00
20	6" Sidewalk with Curb integrated	SY	1850	\$60.00	\$111,000.00
21	Landscape Plantings	LS	1	\$40,000.00	\$40,000.00
22	Lighting Conduit	LF	1200	\$18.00	\$21,600.00
23	Site Lighting - Fixtures	EA	15	\$3,500.00	\$52,500.00
24	Concrete Stairs and Steps	LS	1	\$75,000.00	\$75,000.00
25	HC Striping and Signage	EA	6	\$250.00	\$1,500.00
26	Crosswalks and Stall Striping	LF	3500	\$0.40	\$1,400.00
27	Fencing	LF	656	\$40.00	\$26,240.00
28	Electrical Service	LS	1	\$5,000.00	\$5,000.00
29	Speed Humps	EA	1	\$750.00	\$750.00
30	Stormwater	EA	2	\$20,000.00	\$40,000.00
31	Retaining Walls	SF	1635	\$35.00	\$57,225.00
	TOTAL				6070 444
	TOTAL				\$872,414

Note: This is an estimate of construction costs based upon various sources

APPLICATION FEE:

 $500 + (872,414/1000 \times 5) + (135000 / 1,000 \times 10) =$



Electric Service Support Center PO Box 330 Manchester, NH 03105 1-800-362-7764

February 5, 2018

Jeff Duchesne Chinburg Properties 3 Penstock Way Newmarket NH 03857

Re: 145 Brewery Ln Portsmouth NH

Dear Mr. Duchesne:

Eversource Energy agrees to provide electric service to the above site in accordance with the Tariff for Electric Service on file with the New Hampshire Public Utilities Commission (NHPUC), subject to the applicable NHPUC rules and regulations, as well as Eversource's "Requirements for Electric Service Connections".

Please keep in mind that all requirements for providing electric service, such as, but not limited to, contracts, licenses, fees, payments, easements and inspections must be provided to Eversource prior to the construction of the electric facilities.

Should you have any questions or concerns, please call us at 1-800-362-7764

Sincerely,

Andrea Hoben

Electric Service Support Center

PO Box 330

Manchester, NH 03105-9989



February 7, 2018

Jeff Deschesne Portsmouth West End Development LLC 3 Penstock Way Newmarket NH 03857

RE: Natural Gas Availability to 145 Brewery Ln Portsmouth NH

Dear Jeff,

Unitil's natural gas division has reviewed the requested site for natural gas service.

Unitil hereby confirms natural gas service will be available to Portsmouth West End Development LLC at 145 Brewery Ln Portsmouth NH. Installation is pending an authorized installation agreement with Portsmouth West End Development LLC and street opening approval from the City of Portsmouth DPW.

Let me know if you have any questions. You can email me at oliver@unitil.com. My phone number is 603-294-5174.

Sincerely,

Janet Oliver Business Development Representative

SITE ACCESS AGREEMENT PERMISSION TO ENTER PROPERTY

This Site Access Agreement ("Agreement") is made by and between Portsmouth West End Development, LLC, a New Hampshire limited liability company ("Owner"), and the City of Portsmouth, a municipal corporation with an address of 1 Junkins Avenue, Portsmouth, New Hampshire regarding the Owner's property located at 125 and 145 Brewery Lane, Portsmouth, New Hampshire ("Site"). The City requests permission to enter the Site for the exclusive purpose of conducting water sampling from four (4) existing monitoring wells located on the Site (the "Investigation Activities").

- 1. Owner hereby gives permission to the City of Portsmouth's agents, including, but not limited to, the City of Portsmouth's employees, authorized environmental consultants and/or contractors (the "Authorized Parties"), to enter upon the Site to perform investigation activities at the Site. This permission is effective immediately upon the execution of this Agreement by Owner and the City of Portsmouth.
- 2. The permission granted by Owner under this Agreement is contemplated to be used for the following investigation activities that may be performed by the City of Portsmouth:
 - a. Investigation of groundwater, including, but not limited to the logging, gauging and sampling of existing groundwater monitoring wells, any testing or sampling of groundwater, surface water, soil vapor or other material deemed appropriate by the City of Portsmouth.
 - b. On-Site observation and oversight of the investigation activities.
 - c. Disclosure of environmental information as required by law.
- 3. Upon completion of the investigation, the Authorized Parties will restore the property as near as practicable to its condition immediately prior to the commencement of such activities.
- 4. The granting of this permission by the Owner is not intended, nor should it be construed, as an admission of liability on the part of the Owner or the Owner's successors and assigns for any contamination discovered on the Site.
- 5. The Authorized Parties may enter the Site during normal business hours and may also make special arrangements to enter the Site at other times with agreement from the Owner.
- 6. The Authorized Parties shall enter upon the Site at their own risk, and Owner shall not be held responsible or liable for injury, damage, or loss incurred by any Authorized Party arising out of or in connection with investigation activities conducted under this Agreement, except to the extent that any injury is caused due to the acts or omissions of Owner, or any employee or agent of the Owner.
- 7. Each Authorized Party severally hereby indemnifies and holds Owner harmless from any and all claims or causes of action arising out of or related to the acts or omissions of

said Authorized Party in connection with the performance of activities under this Agreement, except to the extent that any injury is caused due to the acts or omissions of Owner, or any employee or agent of Owner.

- 8. The City of Portsmouth will supply to Owner all information derived from the investigation activities conducted at the Site. The City of Portsmouth may use such information for any purpose at the City of Portsmouth's sole discretion. Information will be held in confidence except as instructed by the Owner, the City of Portsmouth, or as required by law.
- 9. In exercising its access privileges, the Authorized Parties will take reasonable steps not to interfere with the Owner's operations on the Site.
- 10. The Authorized Parties will give notice to the Owner at least one (1) week in advance of the start of investigation activities on the Site.
- 11. Owner ensures that Owner will give Authorized Parties access to the entire Site for the purposes set forth in this Agreement. However, as shown on the proposed Development Plan for the Site, on file with the City of Portsmouth, one of the wells will be either abandoned or relocated. The parties agree to cooperate in the decision to abandon or relocate.
- 12. Any party to this Agreement may terminate this Agreement by giving six (6) months advanced written notice, or all parties may terminate the Agreement at any time by written agreement.
- 13. This Agreement shall expire upon the City of Portsmouth's issuance of a letter indicating completion of the project.

John P. Bohenko, City Manager Dated:_____ Pursuant to vote of the City Council on _____.

For the City of Portsmouth:

For Site Owner:

Portsmouth West End Development, LLC By: Penstock Assets, LLC, Manager

By:	
Eric J.	Chinburg, Authorized Person
to Act of	on Behalf of Manager



12 February, 2018

Trip Generation Calculation Site Redevelopment 145 Brewery Lane, Portsmouth, NH

The purpose of this calculation is to identify the net change in vehicle trips expected to be generated by the site redevelopment at the 145 Brewery Lane. Currently the site is comprised of a 2 Office/Service buildings at 125 and 155 Brewery Lane as well as the abandoned City of Portsmouth, Public Works Facility.

The plan is to demolish the former Public Works Facility and construct a 130 space parking area with associated walkways and parks. The parking area will service the proposed 92 Unit apartment building (which has an additional 40 parking space in the below grade garage).

This site has been recently rezoned to the Character District 4-West End and is also in the West End Incentive Overlay District.

In developing the expected trips Ambit Engineering considered the standard trip generation rates and equations published in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 9th Edition (2012). The land use category that best correlates with the existing use is Office Use (ITE Land Use Code 710) and "Health and Fitness" (ITE Land Use Code 492). The land use category that best correlates with the proposed use isApartment H (ITE Land Use Code 92) and "apartment" (ITE Land Use Code 220) The trip rates, based upon the number of dwelling units of the buildings are summarized below for the Weekday AM and PM Peak Hour:

Trip Generation Summary

Existing -- AM Peak Hour

Yoga (0.51 trips per 1000 sq. ft.) General Office (1.56 trips per 1,000 sq. ft.) Total 1.41 x 5.9units = 8 trips 1.56 x 25.2 units = 39 trip 47 trips

Proposed – AM Peak Hour	
Apartments (0.51 trips per dwelling unit)	$0.51 \times 92 \text{ units } = 47 \text{ trips}$
Yoga (1.41 trips per 1000 sq. ft.)	$1.41 \times 5.9 \text{ units } = 8 \text{ trips}$
General Office (1.56 trips per 1,000 sq. ft.)	$1.56 \times 25.2 \text{ units} = 39 \text{ trip}$
Total	95 trips
Existing – PM Peak Hour	
Yoga (3.53 trips per 1000 sq. ft.)	$3.53 \times 5.9 \text{units} = 21 \text{trips}$
General Office (1.49 trips per 1,000 sq. ft.)	$1.49 \times 25.2 \text{ units} = 38 \text{ trip}$
Total	59 trips

Proposed - PM Peak Hour

Apartments (0.51 trips per dwelling unit)	$0.62 \times 92 \text{ units } = 57 \text{ trips}$
Yoga (3.53 trips per 1000 sq. ft.)	$3.53 \times 5.9 \text{units} = 21 \text{trips}$
General Office (1.49 trips per 1,000 sq. ft.)	$1.49 \times 25.2 \text{ units} = 38 \text{ trip}$
Total	116 trips

Trip Generation Impact

The increase anticipated with this project is 57 additional trip in the PM peak hour and 47 additional trips in the AM peak hour. The anticipated increase in traffic will be divided between the Brewery Lane entrance and the Chevrolet Ave Entrance and does not substantially alter the traffic conditions. Chevrolet Avenue and Brewery Lane are designed for uses such as the proposed project.

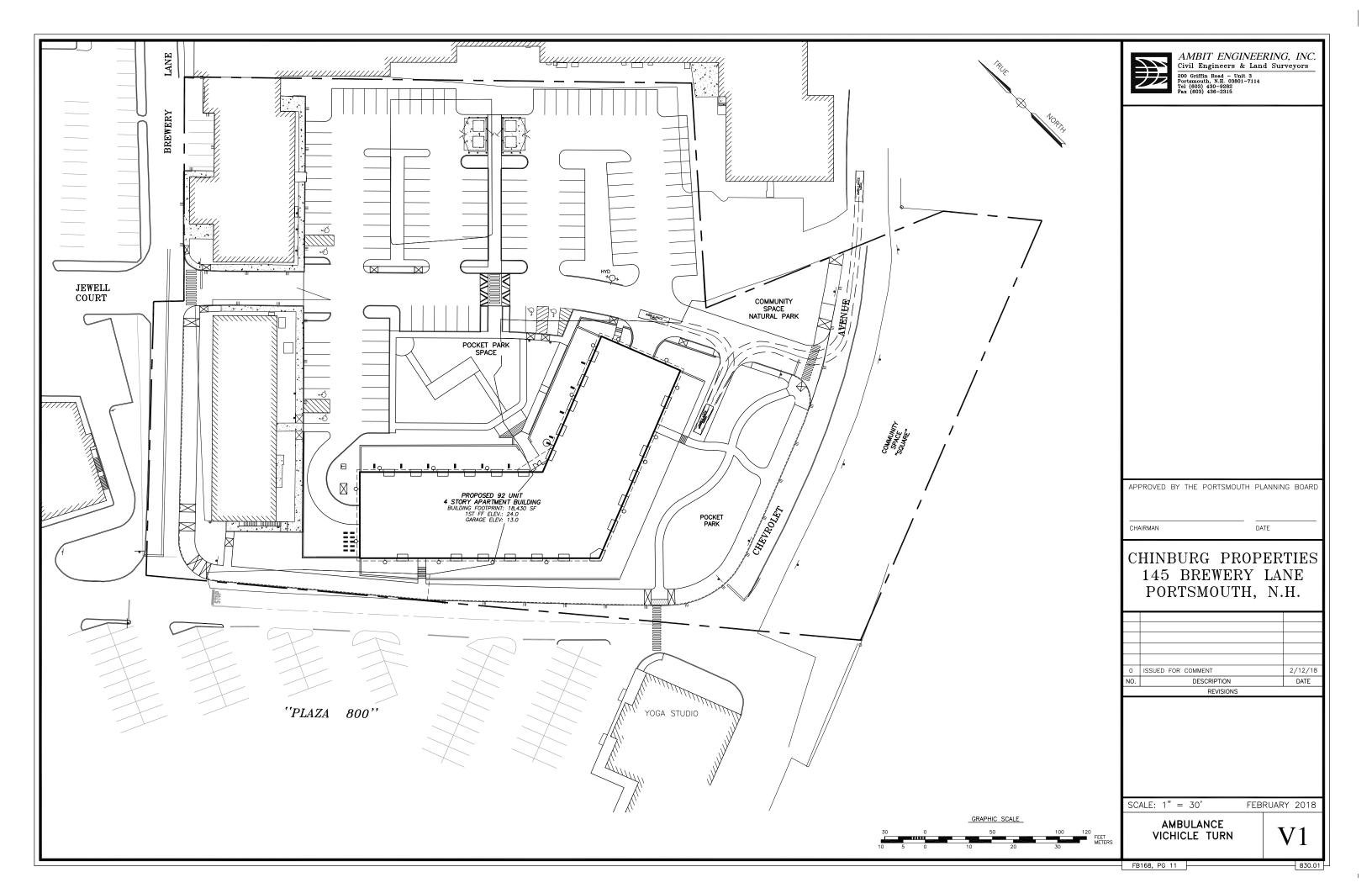
Please feel free to call if you have any questions or comments.

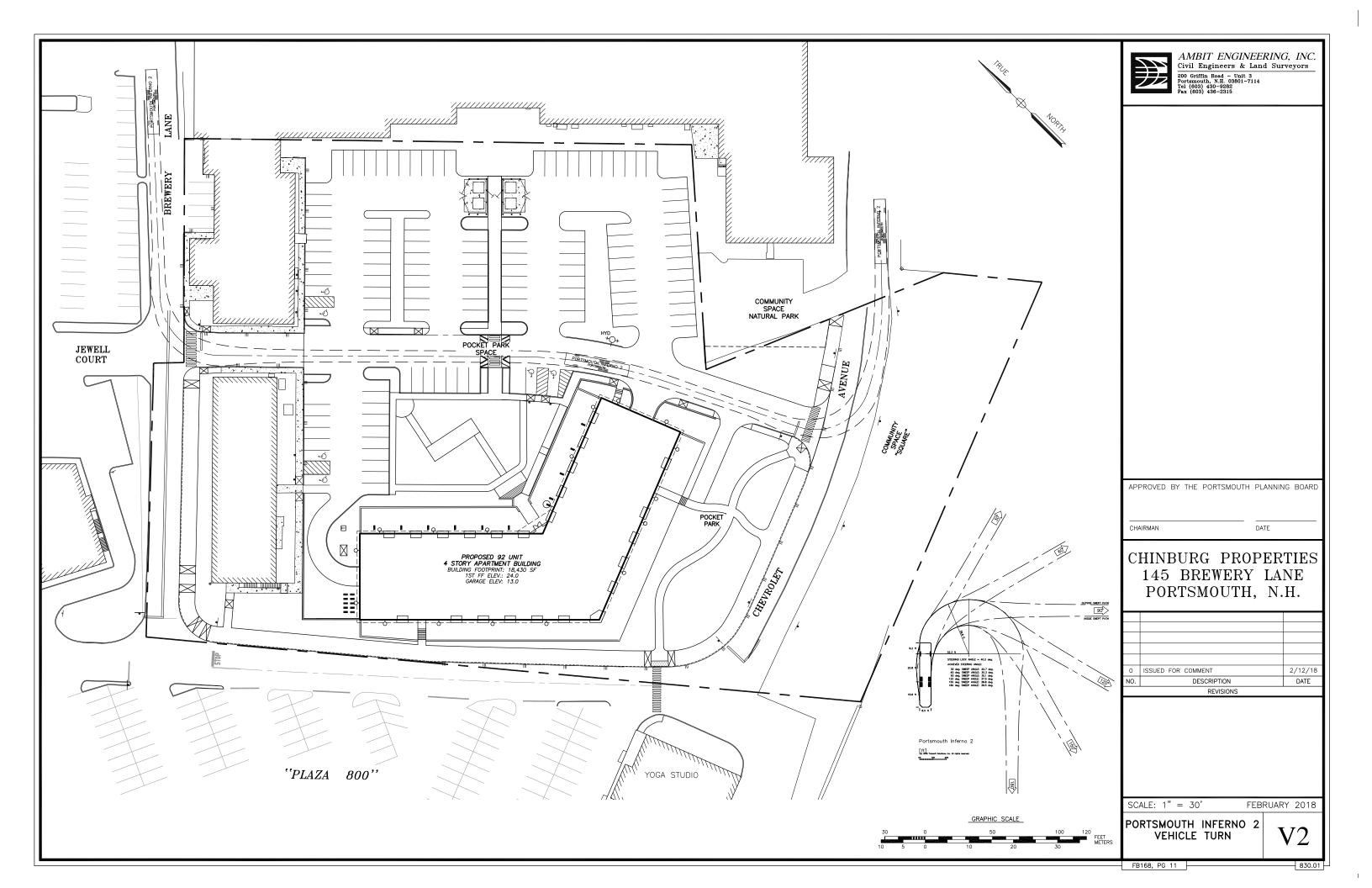
Sincerely,

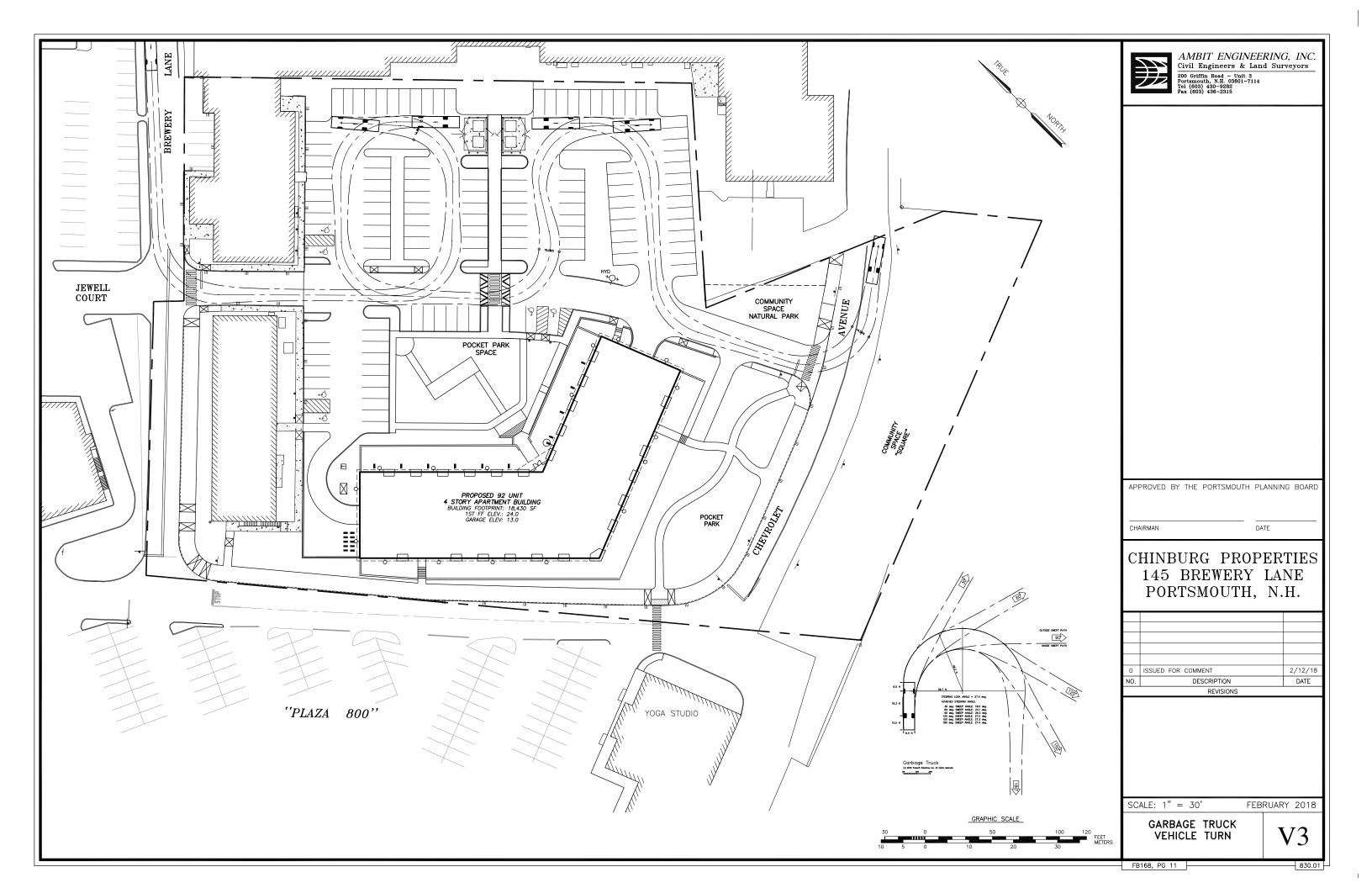
Douglas J. LaRosa, Project Manager

Submission: City Site Plan Review Application Package

Page 2 2/12/18







					Week	Weekday Weekend			<u>Nighttime</u>						
(A) Land Use	Parking Rate per sq. ft. GFA	Gross Floor Floor (Sq. FT)	Required # Spaces	(B) Daytime (8:00 AM– 5:00 PM)		(C) Evening (6:00 PM– Midnight)		(D) Daytime (8:00 AM- 5:00 PM)		(E) Evening (6:00 PM- Midnight)		(F) Nighttime (Midnight– 6:00 AM)		(F) Nighttime (Midnight– 6:00 AM)	
Residential 10.1112.31		62,604	104	<u>60%</u>	62.4	<u>100%</u>	104	80%	83	100%	104	100%	104	100%	104
Office/ Industrial	0.00286 1/350 SF GFA	25231	72	100%	72.2	<u>20%</u>	14	10%	7	<u>5%</u>	4	<u>5%</u>	4	<u>5%</u>	4
Recreational Yoga Studio	0.004 1/250 SF GFA	5892	24	<u>60%</u>	14.1	90%	21	100%	24	<u>70%</u>	16	<u>5%</u>	1	<u>5%</u>	1
Hotel/Motel		0	0	<u>70%</u>	-	100%	-	<u>75%</u>	-	100%	-	100%	-	100%	-
Restaurant		0	0	<u>70%</u>	-	<u>100%</u>	-	80%	-	100%	-	10%	-	<u>10%</u>	-
Entertainment		0	0	<u>40%</u>	-	<u>100%</u>	-	<u>80%</u>	1	<u>100%</u>	-	<u>10%</u>	1	<u>10%</u>	-
Conference/ Convention		0	0	<u>100%</u>	-	<u>100%</u>	-	100%	-	100%	-	<u>5%</u>	-	<u>5%</u>	-
Place of Worship*		0	0	<u>10%</u>	-	<u>5%</u>	-	100%	-	<u>50%</u>	1	<u>5%</u>	-	<u>5%</u>	-
Other Institutional		0	0	<u>100%</u>	-	<u>20%</u>	-	<u>10%</u>	-	<u>10%</u>	-	<u>5%</u>	-	<u>5%</u>	-
Totals					149		140		114		124		109		109

Minimum Parking Requirement 149

Maximum allowed Parking is Total x 1.20 (20%) 178

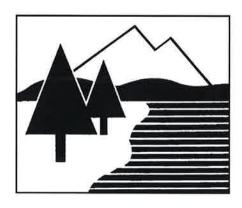
Proposed Parking Spaces 167

Residential Parking Space Calculation							
Apartment	Parking		Parking				
Categories	Spaces	#Units	Spaces				
By Sq. Ft.	Required		Required				
> 500	0.5	25	12.5				
500 to 750	1	47	47				
Over 750	1.3	20	26				
Vis	18.4						
٦	「otals	92	104				

DRAINAGE ANALYSIS SITE DEVELOPMENT

MAP 154, LOT 2 BREWERY LANE PORTSMOUTH, NH For

CHINBURG PROPERTIES / PORTSMOUTH WEST END DEVELOPMENT, LLC



February 12, 2018

Revised: March 19, 2018

JOSEPH MULLEDY No. 11502

Ambit Engineering, Inc.

Civil Engineers and Land Surveyors 200 Griffin Road, Unit 3 Portsmouth, NH 03801

Phone: 603.430.9282; Fax: 436.2315 E-mail: <u>ilm@ambitengineering.com</u>



TABLE OF CONTENTS

DRAINAGE ANALYSIS

	Introduction	1
	Methodology	2
	Site Specific Information	2
	Drainage Analysis	3
	Stormwater Quality BMP	6
	Peak Flow Rates	7
	Channel Protection	7
	Conclusion	8
APPEN	NDIX A	
1.	Operation and Maintenance Plan	
2.	BMP Worksheets	
3.	Complete Results of Drainage Analysis Calculat	ions from the HydroCAD
4.	Plan of Existing Subcatchments - W1	
5.	Plan of Proposed Subcatchments - W2	

EXECUTIVE SUMMARY

This analysis is meant to be used by Town officials, the developer, builders, earthwork contractors and other interested parties to better understand the assumptions and intent of the drainage management and treatment scheme. This drainage analysis examines and compares the existing and proposed conditions stormwater drainage patterns for a Site Development on Brewery Lane in the City of Portsmouth, at Assessor's Map 154, Lot 2. The total lot size is 5.03 acres including areas of off-site watershed that flows onto the parcel and is included in the drainage analysis. Because of the project size, the applicant is required to obtain an NHDES Alteration of Terrain permit which require that stormwater runoff be treated prior to its discharge off the property. This will be achieved by the use of stormwater treatment BMP's and best management practices.

The "existing" conditions site plan show the condition immediately before development (i.e., as it exists today). Runoff amounts from this existing state are a function of the land cover, vegetation and soils; together those factors produce what is known as the Curve Number. The "existing" or pre-developed curve number for the area consisting of one subcatchment is 97. Typically, highly developed areas with a substantial amount impervious area will have curve numbers approaching 90, whereas undisturbed or undeveloped areas can have curve numbers as low as 30 if the soils are well-drained and covered with forest. The proposed development's curve number decreases to 93. Because we have reduced the total amount of impervious surface on the site, the chance of an increase in runoff is very low. For this reason, only treatment practices are proposed at this time to meet State permitting requirements (Alteration of Terrain).

Because the overall impervious surface area has been decreased in the proposed condition, peak rates of runoff can be maintained without on site detention. However, the runoff will require treatment. Deep sump catch basins with water quality elbows will provide secondary stormwater treatment. Primary treatment will be achieved by the use of two filtration systems and an "Environment 21" (V2B1 Model #6) system. The filtration systems treat runoff by filtering it through a layer of engineered soil that removes pollutants through filtering and absorption. The rate of outflow through these ponds is primarily a function of the filter media porosity and the perforated underdrain within that filter media. The two filtration systems are located inside of the islands within the parking lot on the north side of the site. The water quality unit will be located

within the community patio in front of the building. A NHDES Alteration of Terrain permit application will be filed for the project because the disturbed areas will exceed 100,000 square-feet.

Treatment of stormwater runoff is required for the "first-flush" runoff (or Water Quality Volume) and is defined by NHDES as a continuous storm with a rainfall of 1". Statistically, 90% of all storm events in the State of New Hampshire in any given year produce 1" or less rainfall during a 24 hour period. These storms are assumed to carry the majority of the pollutants associated with stormwater runoff. The water quality volume (WQV) is calculated based on this small storm and that volume is treated in the BMP (in this case the filter ponds). Larger storms are also passed through these BMP's but since the majority of the pollutants have already been removed there is no need to treat the entire volume of runoff. For these storms, the volume above and beyond the water quality volume is "by-passed" through the outlet structure untreated.

There is one design point on this parcel which are used to compare pre and postdeveloped runoff amounts. The design point is labeled DP1 and is located within a drain manhole within the intersection of Jewell Court and Brewery Lane.

The 2, 10, 25 and 50 year, 24 hour storm events are used to compare the peak runoff amounts at the design point.

The following table summarizes the pre and post developed peak runoff flows at the one Design Point:

Comparison of Pre and Post Developed Discharge Rates

Design Point	Existing	Proposed	Change		
	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr		
	Peak Flow	Peak Flow	Peak Flow		
	(cfs)	(cfs)	(cfs)		
DP1	18.0/27.6/35.2/42.2	15.7/25.3/32.7/39.6	-2.3/-2.3/-2.5/-2.6		

As the above chart shows, flows are either maintained or reduced in the proposed condition. The following table summarizes the pre and post developed stormwater volumes at the Design Point:

Comparison of Pre and Post Developed Stormwater Volumes

Design Point	Existing	Proposed	Change		
	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr		
	Volume (af)	Volume (af)	Volume (af)		
DP1	1.1/1.8/2.3/2.7	0.9/1.5/2.0/02.5	-0.2/-0.3/-0.3/-0.2		

As the above table shows, volumes are either maintained or reduced at the Design Point. This meets Alteration of Terrain Permit requirements as well as City of Portsmouth requirements.

DRAINAGE ANALYSIS SITE DEVELOPMENT

MAP 154, LOT 2 125 BREWERY LANE PORTSMOUTH, NH For

CHINBURG PROPERTIES / PORTSMOUTH WEST END DEVELOPMENT, LLC

INTRODUCTION

This drainage report is designed to assist the owner, planning board, contractor, regulatory reviewer, and others in understanding the impact of the proposed development project on local surface water runoff and quality. The project site is shown on City of Portsmouth Assessor's Map 154 as Lot 2. The proposed project is for the redevelopment of a 4.7 acre parcel for additional residential use.

This report includes information about the existing site and the proposed development as necessary to analyze stormwater runoff treatment and management. The report includes maps of existing and proposed subcatchments and calculations of runoff. The report will provide a brief narrative description of the storm water runoff and describe numerically and graphically the surface water runoff patterns for this site. Proposed stormwater management and treatment structures and methods will also be described. To fully understand the proposed site development the reader should review plans W1 and W2 which graphically show the assumptions used in the HydroCad stormwater model (Note: these plans are not meant to be used for construction purposes).

In order to maintain or reduce developed peak-runoff amounts to pre-developed levels, the applicants will have to provide for detention of runoff. This will be achieved by the use of two filtration systems and a water quality unit (WQU). The filteration basins treat runoff by filtering it through a layer of engineered soil that removes pollutants through filtering and absorption. The rate of outflow through these basins is primarily a function of the filter media porosity. The two filtration systems are located inside of the islands within the parking lot on the north side of the site. The water quality unit will be located within the community patio in front of the building. A NHDES Alteration of Terrain

permit application will be filed for the project because the disturbed areas will exceed 100,000 square-feet.

Treatment of stormwater runoff is required for the "first-flush" runoff (or Water Quality Volume) and is defined by NHDES as a continuous storm with a rainfall of 1". Statistically, 90% of all storm events in the State of New Hampshire in any given year produce 1" or less rainfall during a 24 hour period. These storms are assumed to carry the majority of the pollutants associated with stormwater runoff. The water quality volume (WQV) is calculated based on this small storm and that volume is treated in the BMP (in this case the filter ponds). Larger storms are also passed through these BMP's (or should be) but since the majority of the pollutants have already been removed there is no need to treat the entire volume of runoff. For larger storms, the volume above and beyond the water quality volume is "by-passed" through the outlet structure untreated.

METHODOLOGY

This report uses the US Soil Conservation Service Method for prediction of storm water runoff. The SCS method is published in The National Engineering Handbook, Section 4 "Hydrology", in Technical Release No. 20, (TR-20) "Computer Program for Project Formulation Hydrology", and Technical Release-55 (TR-55) "Urban Hydrology for Small Watersheds". This report uses the HydroCAD program, written by Applied Microcomputer Systems, Chocorua, N.H., to apply these methods. Rainfall data are taken from the Extreme Precipitation Tables published by the Northeast Climate Center.

SITE SPECIFIC INFORMATION

Located on Brewery Lane in Portsmouth, this site the location of a former DPW garage and two brick structures.

The site is bound by Cheverolet ave to the southeast, Brewery Lane to the northwest, Plaza 800 to the southwest and existing Malt House buildings to the northeast.

The majority of Soils on this site are of the Urban Land "Canton Complex". These soils can be described as being well-drained. A waiver is requested from the requirement for

a site specific soil report as is required by State Alteration of Terrain permitting, because the soil is "made" land.

DRAINAGE ANALYSIS

This drainage analysis consists of two sections, an analysis of the stormwater runoff from the site in the existing condition, and an analysis of the stormwater runoff from the same area with the proposed development. Areas and drainage information were taken from an existing conditions plan and site topographic map prepared by this office. Soils information was taken from the Soil Conservation Service (SCS) Web Soil Survey. Vegetative cover information was determined by on-site inspection as well as aerial orthophotography.

There is one discharge point identified for analysis of stormwater runoff for this project. This is the same point in the existing and proposed conditions. This discharge point is located inside an existing drain manhole within the intersection of Brewery Lane and Jewell Court.

Existing or Pre-Developed Site Runoff

In order to study the site in greater detail, design closed systems and estimate peak stormwater runoff, it is necessary to divide the site into watershed subcatchments. There is a single subcatchment in the existing analysis. The design point is an existing drain manhole (DMH 4) located in the intersection of Brewery Lane and Jewell Court. The large majority of these discharges are sheet flow.

Subcatchment Summaries

Subcatchment ES1*:

This Subcatchment comprises 100% of the total area including runon from offsite (5.035 ac). Existing groundcover is largely impervious surfaces consisting of paved parking and rooftops with some small areas of compacted gravel surface. Runoff from this subcatchment flows to the municipal drainage system along Jewett Court.

^{*}Runoff volumes are based on the 2 year storm event for comparison purposes only.

The following table summarizes the existing subcatchments. The total rainfall amounts for the 2, 10, 25 and 50 year storm are 3.21", 4.87", 6.17" and 7.39". These are the rainfall amounts promulgated by NHDES and are taken from the Northeast Regional Climate Center website.

Table 1: Existing Watershed Subcatchment Runoff Results.

Subcatchment	Area	Tc min.	CN	2 Year	10 Year	25 Year	50 Year
	Sf			Peak cfs	Peak cfs	Peak cfs	Peak cfs
ES1	219,330	5.0	97	18.0	27.6	35.2	42.2

Consistent with TR-55 methodology, a minimum Time of Concentration of 5.0 minutes was set in the HydroCAD modeling software. See "Plan of Proposed Subcatchments" – W1.

Proposed or Post-Developed Site Runoff

There are eight subcatchments in the proposed analysis including runoff from off site. The same Design Point is utilized for the developed state. Subcatchments PS1, PS2, PS3, PS4, PS5, PS6, PS7 and PS8 all flow to Discharge Point 1 (DP1).

The following is a description of the various subcatchments:

Subcatchment PS1 is the northwest corner of the lot and represents an existing building on site, a small amount of landscaping, sidewalk and pavement within Brewery Lane. Flow from this subcatchment discharges directly to design point DP1.

Subcatchment PS2 represents the majority of runoff from the rear of the building in PS1 as well as pavement, sidewalk and landscaping. The flow from this subcatchment is captured and treated in Filter Pond #1.

Subcatchment PS2a represents offsite rooftop runoff that will be captured in a swale/underdrain system that will bypass the onsite treatment.

- Subcatchment PS3 is the northwest corner of the lot and is largely pavement with smaller amounts of sidewalk and landscape area. The flow from this subcatchment is captured and treated in Filter Pond #2.
- Subcatchment PS3a represents offsite rooftop runoff that will be captured in a swale/underdrain system that will bypass the onsite treatment.
- Subcatchement PS4 is the located in the southwest corner of the property and represents runoff from an existing building on site, a small amount of landscaping, sidewalk and pavement within Brewery Lane. Flow from this subcatcheent discharges directly to design point DP1.
- Subcatchment PS5 is contains the majority of the area for the entire lot and is comprised of the entire rooftop from the proposed sidewalk, pavement and landscaped areas. Runoff from this subcatchment will be treated in a Water Quaility Unit (WQU) located within the community patio in the front of the building.
- Subcatchment PS5A is contains sidewalk, pavement and landscaped areas.
- Subcatchment PS5B is contains sidewalk, pavement and landscaped areas.
- Subcatchment PS5C is contains the majority of the area for the entire entire rooftop from the proposed building.
- Subcatchement PS6 is located along Cheverolet Avenue to the rear of the proposed building and is comprised of pavement, sidewalk and landscaped area.
- Subcatchement PS7 is located adjacent to the parking lot of Plaza 800 and is comprised of pavement, sidewalk and landscaped area.
- Subcatchments PS8 represent runoff from a small part of the property that flows to proposed catch basin PCB2.
- All proposed subcatchments flow to and are analyzed at design point DP 1 (DMH 4).

Table 2: Proposed or Developed Conditions

Subcatchment	Area	Tc min *	Weighted	2 Year Peak	10 Year Peak	25 Year Peak	50 Year Peak
	Sf		CN	cfs	cfs	cfs	cfs
PS1	7,157	5.0	97	0.6	0.9	1.1	1.4
PS2a	20,584	5.0	93	1.6	2.5	3.2	3.9
PS2b	11,747	5.0	94	0.9	1.4	1.8	2.2
PS3a	19,589	5.0	94	1.5	2.4	3.1	3.7
PS3b	40,960	5.0	92	3.0	4.9	6.3	7.7
PS4	12,006	5.0	94	0.9	1.5	1.9	2.3
PS5	34,260	5.0	91	2.5	4.0	5.2	6.4
PS5A	9,298	5.0	97	0.8	1.2	1.5	1.8
PS5B	13,605	5.0	92	1.0	1.6	2.1	2.5
PS5C	18,430	5.0	98	1.5	2.3	3.0	3.6
PS6	20,527	5.0	88	1.3	2.3	3.0	3.7
PS7	8,740	5.0	94	0.7	1.1	1.4	1.7
PS8	2,398	5.0	94	0.2	0.3	0.4	0.5
Totals							

See "Plan of Proposed Subcatchments" – W2.

^{*}Consistent with TR-55 methodology, a minimum Time of Concentration of 5.0 minutes was set in the HydroCAD modeling software.

^{**}By inspection, the Time of Concentration for several small subcatchements was "Direct Entered" with a Tc of 5.0 minutes.

Stormwater Quality BMP's

We understand the City is in process of generating requirements for stormwater treatment, the applicant is preparing an NHDES Alteration of Terrain (NHDES AoT) permit application and is required to treat stormwater runoff as part of that approval process.

The State recognizes many different "BMP's" (best management practices) for purposes of treating stormwater runoff. This project proposes several different BMPs to accomplish the goals of the Alteration of Terrain permit:

- Filtration Basins are proposed for several reasons: a) The runoff can be filtered.
 b) Filter ponds provide good treatment and cooling of stormwater runoff and c)
 Filter ponds can be designed to regulate outflow so that channel protection requirements are met. On this site, filtration ponds have been chosen for their ease of construction, maintenance and cost.
- 2. Environment 21 V2B1 Model #6.

Peak Flow Rates

One of the main goals of any stormwater runoff analysis has to do with maintaining peak runoff amounts to pre-developed levels. The following table summarizes and compares the peak runoff amounts for the existing and proposed conditions, at the Design Point:

Comparison of Pre and Post Developed Discharge Rates

Design Point	Existing	Proposed	Change
	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr
	Peak Flow	Peak Flow	Peak Flow
	(cfs)	(cfs)	(cfs)
DP1	18.0/27.6/35.2/42.2	15.7/25.3/32.7/39.6	-2.3/-2.3/-2.5/-2.6

<u>Discussion:</u> The design of the stormwater management system is such that no increases in peak flow are seen at the design point.

Channel Protection Requirements

Meeting the Channel Protection Requirements (Env-Wq 1507-05) for this project was achieved at design point DP1.

The following table summarizes the pre and post developed stormwater volumes at the five Design Point:

Comparison of Pre and Post Developed Stormwater Volumes

Design Point	Existing	Proposed	Change
	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr	2 yr/10 yr/25 yr/50 yr
	Volume (af)	Volume (af)	Volume (af)
DP1	1.1/1.8/2.3/2.7	0.9/1.5/2.0/02.5	-0.2/-0.3/-0.3/-0.2

<u>Discussion:</u> As the above table shows, volumes are either maintained or reduced for all subcatchments. This meets Alteration of Terrain Permit requirements as well as requirements of the City of Portsmouth.

Conclusion

The new development can be built without increasing the risk of flooding or erosion onto neighboring properties or overburdening the existing City of Portsmouth stormwater system. Given the results of the preceding analysis and compliance with known state and city requirements noted above, it is our opinion that this project will not have downstream impact to the existing storm drain system.

INSPECTION & MAINTENANCE PLAN

FOR

Chinburg Properties / Portsmouth West End Development, LLC

Site Redevelopment

125 Brewery Lane

Portsmouth, NH

Introduction

The intent of this plan is to provide Chingurg Properties / Portsmouth West End Devleopment, LLC (herein referred to as "owner") with a list of procedures that document the inspection and maintenance requirements of the stormwater management system for this development. Specifically, the detention ponds, infiltration system and associated structures on the project site (collectively referred to as the "Stormwater Management System").

The following inspection and maintenance program is necessary to keep the stormwater management system functioning properly. These measures will also help minimize potential environmental impacts. By following the enclosed procedures, the owner will be able to maintain the functional design of the stormwater management system and maximize its ability to remove sediment and other contaminants from site generated stormwater runoff.

Annual Report

The owner shall prepare an annual Inspection & Maintenance Report. The report shall include a summary of the system's maintenance and repair by transmission of the Inspection & Maintenance Log and other information as required. A copy of the report shall be delivered annually to the City of Portsmouth Code Enforcement Officer.

Inspection & Maintenance Checklist/Log

The following pages contain a Stormwater Management System Inspection & Maintenance Checklist and a blank copy of the Stormwater Management System Inspection & Maintenance Log. These forms are provided to the owner as a guideline for performing the inspection and maintenance of the Stormwater Management System. This is a guideline and should be periodically reviewed for conformance with current practice and standards.

STORMWATER MANAGEMENT SYSTEM COMPONENTS

The Stormwater Management System is designed to mitigate both the quantity and quality of site-generated stormwater runoff. As a result, the design includes the following elements:

Non-Structural BMP's

Non-Structural best management practices (BMP's) include temporary and permanent measures that typically require less labor and capital inputs and are intended to provide protection against erosion of soils. Examples of non-structural BMP's on this project include but are not limited to: temporary and permanent mulching, temporary and permanent grass cover, trees, shrubs and ground covers, miscellaneous landscape plantings, dust control, tree protection, topsoiling, sediment barriers, and a stabilized construction entrance.

Structural BMP's

Structural BMP's are more labor and capital intensive structures or installations that require more specialized personnel to install. Examples on this project include but are not limited to: storm drains, the micro detention ponds and associated outlet control structures, and the infiltration trench system.

Inspection and Maintenance Requirements

The following summarizes the inspection and maintenance requirements for the various BMP's that may be found on this project.

- 1. **Grassed areas:** After each rain event of 0.5" or more during a 24 hour period, inspect grassed areas for signs of disturbance, such as erosion. If damaged areas are discovered, immediately repair the damage. Repairs may include adding new topsoil, lime, seed, fertilizer and mulch.
- 2. Plantings: Planting and landscaping (trees, shrubs) shall be monitored bi-monthly during the first year to insure viability and vigorous growth. Replace dead or dying vegetation with new stock and make adjustments to the conditions that caused the dead or dying vegetation. During dryer times of the year, provide weekly watering or irrigation during the establishment period of the first year. Make the necessary adjustments to ensure long-term health of the vegetated covers, i.e. provide more permanent mulch or compost or other means of protection.
- 3. Storm Drain Structures (POCS): Monitor drain inlets and outlets for excessive accumulation of sediments or missing stone/riprap. Remove sediments as required.
- **4. Filtration Basin:** After acceptance of the Filtration Basin, perform the following inspections on a semi-annual basis or after significant rainfall events (10 year, 24 hour storms, or back to back 2 year, 24 hour storms):
 - a. Monitor Filtration Basin for 72 hours following a rain storm. If the Filtration Basin fails to fully drain within this period time, the engineered soil may have become plugged. Inspect for other causes of blockage. If it's determined that the soil has become plugged and is no longer functioning as engineered, then replacement of soils shall be required. Contractor shall use care in removing soil around tree roots. An airspade shall be used to remove soils around tree roots.
 - **b.** Monitor for excessive or concentrated accumulations of debris, or excessive erosion. Remove debris as required.

- c. Monitor the outfall structure for problems with clogged pipes. Repair or remove clogs as required, and determine cause of clogging. Pipes should be inspected annually and after every major rainstorm. Broken or damaged pipes should be repaired or replaced as necessary.
- **d.** Monitor side slopes of ponds for damages or erosion—repair as necessary.
- e. Monitor turf health and keep protected from fire, grazing, traffic and dense weed growth. Lime and fertilizer should be applied as necessary to promote good growth as determined by soil tests. Mowing the vegetated areas of the basin should be carried out as necessary.
- **f.** Sediment accumulation should be continually checked in the basin. Sediment should be removed as it is discovered. Particularly if it has accumulated near the outlet of the basin.
- g. The outlet control structure should be inspected annually and after every major rainstorm. The outlet control structure has within it a weir structure with various size orifices for controlling flow out of the basin. These orifices should be kept clear and unclogged. Any sediment or debris that has built up inside the outlet control structure should be removed when discovered.
- h. The use of sand shall be prohibited and the use of salt shall be limited.

Invasive Species

Monitor Stormwater Management System for signs of invasive species growth. If caught earlier enough, their eradication is much easier. The most likely places where invasions start are in wetter, disturbed soils or detention ponds. Species such as phragmites and purple loose-strife are common invaders in these wetter areas. If they are found then the owner shall contact a wetlands scientist with experience in invasive species control to implement a plan of action to eradicate the invaders. Measures that do not require the application of chemical herbicides should be the first line of defense.

Stormwater Management System Inspection & Maintenance Checklist for Post Construction Condition—for Chinburg Properties / Portsmouth West End Devlopment, 125 Brewery Lane, Portsmouth, NH

BMP/System Component	Minimum Inspection	Minimum Inspection Requirements	Maintenance/Cleanout Threshold
	Frequency		
Closed Drainage System			
Drainage Pipes	Yearly	Check for sediment clogging, or soiled runoff.	Clean entire drainage system and remove all sediments if discovered in piping.
Filtration Basin	2 X Annually	Check for sediment clogging, excessive weed growth and standing water	Remove any weeds, trash, debris and accumulated sediment. If trench does not drain within 72 hours following a rain event, a qualified professional should assess the condition of the facility to determine restoration measures.
Environment 21 V2B1 Model #6	See Attached	See Attached	See Attached
Annual Report	Yearly	Prepare Annual Report, including all Inspection & Maintenance Logs. Provide to Town (if required).	N/A

Stormwater Management System Maintenance Summary

Performed By						
Date of	Maintenance					
Problems Noted, Required Maintenance	(List Items/Comments)					
Inspector						
Date	Inspected					
BMP/System	Component					

Data Sheets

			3		



PROPOSED GREEN BUILDING COMPONENTS

LOCATION AND TRANSPORTATION

- 1. Public Transportation A bus stop is located adjacent to the site at Plaza 800.
- **2. Walkable Amenities** There are numerous businesses located within a 1-mile radius, including a grocery store, pharmacies, restaurants and retail shops.
- **3. Bicycle Storage** Bicycle storage will be provided for building occupants, and a location for a Zagster bicycle sharing rack is proposed on the site.
- **4. Increased Density** The project will provide increased residential density in a previously developed location, reducing sprawl by reducing the need for development in undeveloped areas.

SITE

- **5. Adaptive Reuse** Redevelopment of an existing urban site for infill development.
- **6. Reduce Impervious Surfaces** Impervious surfaces have been reduced significantly, with increased areas for landscaping and community green space.
- **7. Stormwater Design** The stormwater system has been designed using Low Impact Design techniques, such as infiltration parking islands.
- 8. Parking Parking calculations have been performed using the City's shared parking requirements.

WATER

- **9. Plumbing Fixtures** Dual flush or low-flow toilets and other low-flow fixtures will be provided where possible.
- 10. Domestic Hot Water Will be designed to exceed code requirements.

ENERGY

- **11. Building Envelope** The building envelope will be designed as a high performance assembly to significantly exceed minimum Energy Code requirements and minimize heating and cooling costs, while achieving a high standard of occupant comfort.
- 12. HVAC Units High-efficiency Air Source Heat Pumps controlled by the apartment tenant.
- **13. High-Efficiency Lighting** Efficient LED lighting will be used for interior and exterior fixtures where possible.
- 14. Energy Star Appliances Appliances provided by Owner will be Energy Star rated where possible.
- **15. Roofing** Flat roofing will be of a light-colored, reflective membrane roofing to reduce the heat island effect.



MATERIALS AND RESOURCES

16. Minimize Waste - Material waste will be minimized as much as possible during construction.

INDOOR ENVIRONMENTAL QUALITY

- **17. Low-VOC Materials** Building materials with low volatile organic compound levels will be specified where possible.
- **18.** Indoor Air Quality Residential dwelling units will have operable windows for access to fresh air.
- 19. Daylight Habitable spaces will have access to windows for daylight.
- **20. Thermal Comfort** Each residential unit will have a dedicated HVAC controlled by the apartment tenant.
- **21. Acoustic Comfort** Acoustic and vibration separations will be provided between dwelling units at demising walls and floors.

Note: Green building components reflect proposed project features and are subject to feasibility of construction.

GRIFFIN FAMILY CORPORATION

800 Islington St. Plaza 800 • P O Box 149 • Portsmouth, NH 03802-0149 • 603-436-3020 • Fax: 603-436-5601

October 4, 2005

David M. Holden, Planning Director City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Site Review Application, Property located at 125 Brewery Lane, Map 154/Lot 2

Dear Mr. Holden:

On behalf of Griffin Family Corporation I want to inform you and the Site Review Technical Advisory Committee that the proposed crosswalks and minor sidewalk adjustments on property owned by Griffin Family Corporation (shown as Tax Map 154 Lot 1 and Tax Map 155 Lot 13) which are depicted on Sheet C4, Revision 4, dated September 22, 2005, of the "The Brewyard Terraces" site plans prepared by Ambit Engineering are acceptable to Griffin Family Corporation.

We understand that the work will be performed by the applicant, Saco Avenue Professional Building, as a part of the above-mentioned project. We will grant Saco Avenue Professional Building permission to enter onto our property to perform the work pursuant to the terms of an "Access Agreement", to include indemnification provisions. We understand that after the work is completed and accepted by the City of Portsmouth, under the "Site Review Agreement" document, that the new sidewalks located on the property of Griffin Family Corporation will belong to Griffin Family Corporation.

Please feel free to call me if you have any questions or comments.

Sincerely,

Griffin Family Corporation

Mary M. Griffin

President

CC: Mr. King Weinstein, Saco Ave. Professional Building

Chris Keenan, Esq.

John Chagnon, Ambit Engineering

Thomas Burack, Esq.

LAW OFFICES OF CHRISTOPHER W. KEENAN, P.C.

125 BREWERY LANE, SUITE 7 PORTSMOUTH, NH 03801-4996 603-433-1884 FAX 603-433-1885

CHRISTOPHER W. KEENAN ADMITTED TO PRACTICE IN ME & NH

Chris@cwkeenanlaw.com

December 2, 2011

Hand-Delivered

Suzanne Woodland, Esq. Assistant City Attorney City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801

RE: Brewyard Terrace

Dear Suzanne:

Enclosed please find the fully executed Sidewalk Easement Deed from Saco Avenue Professional Building, Inc. by its' president, King Weinstein.

As you know, on several occasions I asked that this Easement Deed be held in escrow until such time as the project is actually built. If the easement is recorded prior to the building of the project, with a recorded easement in place, the public technically has a right to walk the area of the easement. That is not a tenable situation.

I presume the City will help the landowner enforce the right to prohibit the public from using the easement until such time as the project is completed and the sidewalk actually built.

In light of the City's reluctance to hold the Deed in escrow, I do request a statement in writing from your office that if the project is not built, the landowner may make a simple request that the City file the necessary documents to negate the sidewalk easement.

Thank you very much for your attention to this matter. If you have any questions or concerns, please do not hesitate to contact me. You should note that the plan number for Ambits Sidewalk Easement Plan will need to be inserted in the Easement Deed when recorded.

Very tiply yours,

Christopher W. Keenan, Esq

CWK/dmg

cc: K

King Weinstein

John Chagnon, Ambit Engineering

Return to: City of Portsmouth, Legal Department 1 Junkins Avenue Portsmouth, NH 03801

SIDEWALK EASEMENT DEED

Saco Avenue Professional Building, Inc. a corporation registered to business in the State of New Hampshire with a mailing address of 198 Saco Avenue, PO Box W, Old Orchard Beach, Maine 04064, hereinafter Grantor," for consideration paid, grants to the CITY OF PORTSMOUTH, a municipal corporation with a principal place of business of 1 Junkins Avenue, Portsmouth, New Hampshire 03801, hereinafter Grantee, with QUITCLAIM COVENANTS, the following:

A permanent easement over a portion of land of Grantor situate 125 Brewery Lane, Portsmouth, County of Rockingham New Hampshire as shown on a plan of land entitled EASEMENT PLAN TAX MAP 154 - LOT 2 SACO AVENUE PROFESSIONAL BUILDING, INC, TO THE CITY OF PORTSMOUTH" and marked thereon as PROPOSED SIDEWALK EASEMENT TO THE CITY OF PORTSMOUTH" dated July 2011, prepared by Ambit Engineering, Inc. recorded herewith as Plan No.#: ______, (hereinafter referred to as the Plan). The easement is more particularly bounded and described as follows:

An area five feet wide running from the entrance to the Brewyard Apartments on the easterly side of Chevrolet Avenue to the intersection with land of the Griffin Family Corporation the so-called Plaza 800 parking lot; thence turning Westerly along the land of the Grantor and land of the Griffin Family Corporation to Brewery Lane; thence turning and running in a Northerly direction along the Easterly side of Brewery Lane to the North East property corner of land of Grantee.

Purpose and Rights. The Grantee, its successors and assigns, shall have a perpetual, permanent, uninterrupted and unobstructed exclusive easement and right of way in, under, across and over the easement area for the purpose of installing and maintaining a public sidewalk. The Grantor shall not make any improvements to, or make any use of the easement area that would interfere with the Grantees use thereof.

Easements to Run with Land. All rights and privileges, obligations and liabilities created by this instrument shall inure to the benefit of, and be binding upon, the heirs, devises, administrators, executors, successors and assigns of the Grantee and the Grantor and shall run with the land.

MEANING AND INTENDING to convey a permanent easement over a portion of the premises conveyed to the within Grantor by deed of May 27, 1999 and recorded in Book 3396, Page 1704 of the Rockingham County Registry of Deeds.

This is an exempt transfer per RSA 78-B:2(I).

DATED this 16 day of Septe

Saco Avenue Professional Building, Inc.

King Weinstein, President

STATE OF NEW HAMPSHIRE COUNTY OF KOCK IN CLASS

The foregoing instrument was acknowledged before me this 6 day of September, 2011 by King Weinstein

Weinstein.

Justice of the Peace/Notary Public

Printed Name:

My Commission Expires:

CHRISTOPHER W. KEENAN Justice of the Peace State of New Hampshire My Commission Expires May 2, 2012

R. W. Gillespie & Associates, Inc.

APPENDIX A

EXPLORATION LOGS

Geotechnical Investigation
The Brewyard Terraces
Portsmouth, New Hampshire

	<u> </u>		R.V	V. Gillespie & Associates, Inc. chnical Engineering • Geohydrology • Materials Testing Services					
Proje Loca Clien Proje	tion t:	:	Bre Po Sa	ewyard Terrace ewyard Terrace portsmouth, New Hampshire aco Avenue Professional Building, Inc. Date C	iter D	epth:		B-1 15.0 4.5 29/04	Ų
ОЕРТН, FT.	SYMBOL	SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		Š	S-1	TOPSOIL AND ORGANIC MATERIAL (6 inches). FILL; Gravelly Sand with Silt: Loose to medium dense, moist to wet, coarse to fine sand, some gravel, little silt, brown.	.20	3 5 <u>5</u>	8		
- 5			5-2	TOPSOIL; Old ground surface. SILTY CLAY (CL); Stiff, moist, olive brown.	24	1 1 2 <u>4</u>	3		
- 10 -		5	S-3	Pocket Penetrometer: Undrained Shear Strength: Su = 2.5 ksf.	24	3 4 5 <u>6</u>	9		
- 15 -		5	S-4	Becomes soft, gray.	24	WOH/ 12" 1 1	1		
- 20 -		5	S-5	Becomes stratified with thin (<2") sand seams.	24	WOH/ 24"	WOH		
- 25 -				Probed with "A" rod and hammer from 24' to 35'. Depth (ft) Blows					
- 30				24 - 25 WOH 25 - 26 WOH 26 - 27 WOH 27 - 28 WOH 28 - 29 1 29 - 30 6					
- 35 -				29 - 30 6 30 - 31 7 31 - 32 4 32 - 33 7 33 - 34 39 34 - 35 40 35 - 35 50+ Glacial Till (logged from change in resistance and hammer blow count).					
				Bottom of Exploration at 35'; Probe refusal.					

Proje Loca Clier Proje	ation nt:		Brewyard Terrace Portsmouth, New Hampshire Saco Avenue Professional Building, Inc. Observed Wa	ater D	epth:		B-2 17.0 4 29/04	
DEPTH, FT.	SYMBOL	SAMPLES		SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
- 5		S-	some silt, little gravel, occasional cobble, trace to little organics, black - dark brown.	12	9 18 25/0"	7		
- 10		S-	SILTY CLAY (CL); Stiff, moist, olive brown. 3 Pocket Penetrometer: Undrained Shear Strength: Su = 3.25 ksf.	12	3 <u>4</u> 9	24		
- 15 -		S-	4 Becomes soft, wet, gray.	24	10 14 16 WOH/ 24"	WOH		
- 25 -		S-	Becomes stratified with thin (<3") sand seams. Probed with "A" rod and hammer from 22' to 34'. Depth (ft) Blows 22 - 23 WOH 23 - 24 1 24 - 25 1 25 - 26 1 26 - 27 1 27 - 28 4 28 - 29 14 29 - 30 18 30 - 31 26 31 - 32 46 32 - 33 51 33 - 34 58 Glacial Till (logged from change in resistance and hammer blow count). Bottom of Exploration at 34'; Not refusal.		1 1/18"	1		

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roject: B ocation: P lient: S roject No. 2	rewyard Terrace E ortsmouth, New Hampshire Surface aco Avenue Professional Building, Inc. Observed Wa 35-1039 Date C	ater D	epth:	,	B-3 17.0 4.5 29/04	
SAMPLES SAMPLES SAMPLES	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
S-1	FILL; Gravelly Sand with Silt: Medium dense to dense, moist, coarse to fine sand, some gravel, little to trace silt, brown to black.	19	24 47 19 <u>8</u>	66		
S-2	SILTY CLAY (CL); Stiff, moist, olive brown. Pocket Penetrometer: Undrained Shear Strength: Su = 3.5 ksf.	20	2 2 5 <u>7</u>	7		
S-3	Pocket Penetrometer: Undrained Shear Strength: Su = 2 ksf.	24	3 3 4 <u>4</u>	7		
S-4	Becomes soft, wet, gray.	24	WOR/ 24"	WOR		
S-5		24	1/24"	1		
	Probed with "A" rod and hammer from 25' to 33'. Depth (ft) Blows					

oje cat ient	t:		Po Sa	ewyard Terrace Bortsmouth, New Hampshire Surface aco Avenue Professional Building, Inc. Observed Wars-15-1039 Date C	ter D	epth:		B-4 17.0 4.5 /29/04	r
טבר וח, רו,	SYMBOL	SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	OF OFF
			S-1	FILL; Gravelly Sand with Silt: Medium dense to dense, moist, coarse to fine sand, some gravel, little silt, brown.	20	15 16 18 10	34		
₽.			S-2	TOPSOIL; Old ground surface. SILTY CLAY (CL); Hard, moist, olive brown. Pocket Penetrometer: Undrained Shear Strength: Su = 4.0 ksf.	20	2 2 4 <u>7</u>	6		
) -			S-3	*	24	3 3 3	6		
5		Δ.	FV FV	Field Vane: Undrained Shear Strength: Su = 0.48 ksf, residual = 0.03 ksf. Field Vane: Undrained Shear Strength: Su = 0.41 ksf, residual = 0.07 ksf.					
			FV FV	Field Vane: Undrained Shear Strength: Su = 0.40 ksf, residual = 0.02 ksf. Field Vane: Undrained Shear Strength: Su = 0.48 ksf, residual = 0.04 ksf.					
		A U	FV FV	Field Vane: Undrained Shear Strength: Su = 0.47 ksf, residual = 0.07 ksf, Field Vane: Undrained Shear Strength: Su = 0.57 ksf, residual = 0.07 ksf.					
			S-4	GRAVELLY SAND WITH SILT (SM); Dense, wet, coarse to fine sand, some gravel, little silt, gray. Bottom of Exploration at 32.6'; Spoon refusal.	7	21 50/1"	100+		

SAMPLES SAMPLE NUMBER		1.5			29/04	
	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
S-1	FILL; Gravelly Sand with Silt: Medium dense, moist, coarse to fine sand, some gravel, little silt, brown.	20	8 13 7 <u>5</u>	20		
S-2	TOPSOIL; Old ground surface. SILTY CLAY (CL); Medium stiff to stiff, moist, olive brown.	24	1 1 2 3	3		
S-3	Pocket Penetrometer: Undrained Shear Strength: Su = 2.0 ksf.	24	2 3 4 4	7		
5 S-4	Becomes soft, wet, gray.	24	WOR/ 12" 1/12"	1		
S-5	Becomes stratified with thin (<2") sand seams. Bottom of Exploration at 22'; Not refusal.	24	1/24"	1		
5 -						
0 -						

oca lien	ect: tion it: ect N		Sa	ewyard Terrace E rtsmouth, New Hampshire Surface co Avenue Professional Building, Inc. Observed Wa 5-1039 Date C	ater D	epth:		B-6 15.0 5 30/04	
DEPIH, FI	SYMBOL	SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
)			S-1	FILL; Gravelly Sand with Silt, medium dense, moist, coarse to fine sand, some gravel, little silt, brown to black.	20	12 19 10 <u>8</u>	29		
Ā			S-2	TOPSOIL; Old ground surface. SILTY CLAY (CL); Medium stiff, moist, olive brown.	24	1 3 5 <u>7</u>	8		
) -			J-1		18				
			J-2	Becomes soft, wet, gray.	22			42 46 44 42	C(G) M(
-			J-3		24			47 44 41 40	G(G) M(
		н	J-4 S-3	Becomes stratified with thin sand seams.	2 24	WOR/ 24*	WOR		
		,	5-4	SAND (SP-SM); Dense to very dense, wet, medium to fine sand, little to trace silt, trace gravel, gray.	24	WOR/ 12" 3 4	3		
5	2810 2810 2810 2810 3810		S-5		20	32 33 25 20	58		

oca lien roje	ect: tion: t: ect N	B P S o. 2:	rewyard Terrace ortsmouth, New Hampshire aco Avenue Professional Building, Inc.	B Surface Observed Wa Date C	oring Eleva ter De omple	Log: ation: epth: eted:		B-6 15.0 5 /30/04	
DEРТН, FT.		SAMPLES SAMPLE NUMBER	DESCRIPTION OF MATERIAL		SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT	MOISTURE CONTENT %	LAB TESTS
	OFFI DOCE DOCE DOCE DOCE DOCE DOCE DOCE DOCE		Proved with "N" rod and rotary wash from 37' to 45'.						
10 -	Jacob Ja		Becomes gravelly.						
15 -			Bottom of Exploration at 45' Not refusal.						
0 -									
5 -									
0 =									
5 =									
		: MIT							
70									

lien	tion: it:		Sa	ewyard Terrace E rtsmouth, New Hampshire Surface co Avenue Professional Building, Inc. Observed Wa 5-1039 Date C	ater D	epth:		B-7 15.0 5 <u>30/04</u>	
DEPTH, FT.	SYMBOL	SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		5	S-1	ASPHALTIC PAVEMENT (2 inches). FILL; Gravelly Sand with Silt, medium dense, moist, coarse to fine sand, some gravel, little silt, trace bricks, asphalt, brown to black.	24	19 16 10 <u>8</u>	26		
; ♀		5	S-2	SILTY CLAY (CL); Medium stiff, moist, olive brown. Pocket Penetrometer: Undrained Shear Strength: Su = 2.0 ksf.	24	3 7 7 9	14		
		S	S-3		24	4 4 6 <u>6</u>	10		
5		S	6-4		24	WOR/ 24"	WOR		
5 =		S	S-5	Becomes stratified with thin (<2") sand seams. Bottom of Exploration at 22'; Not refusal.	24	WOR 2 1/12"	2		
0 -									
5 -									

oject: catior ient: oject l	. Sa	ewyard Terrace E ortsmouth, New Hampshire Surface aco Avenue Professional Building, Inc. Observed Wa 5-1039 Date C	ater D	epth:		B-8 16.0 5 <mark>/30/04</mark>	
SYMBOL	SAMPLES SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	AB TESTS
	S-1	ASPHALTIC PAVEMENT (2 inches). FILL: Gravelly Sand with Silt, medium dense, moist, coarse to fine sand, some gravel, trace to little silt, brown. FILL; Ashes, bricks and silt, trace organics.	18	8 9 7 <u>5</u>	16		
<u>₹</u>	S-2	SILTY CLAY (CL); Stiff, moist, olive brown. Pocket Penetrometer: Undrained Shear Strength: Su = 3.5 ksf.	24	2 4 7 8	11		
0 -	S-3		24	3 2 2 3	4		
5	S-4	Becomes soft, wet, gray, stratified with thin (<4") sand seams.	24	WOR WOH 5	5		
0 -	S-5	GRAVELLY SAND WITH SILT (SM); Medium dense, moist to wet, coarse to fine sand, some gravel, little silt, gray. -GLACIAL TILL DEPOSITS-	8	5 10 17 15	27		
5 -	S-6	Bottom of Exploration at 27'; Not refusal.	16	10 11 10 12	21		

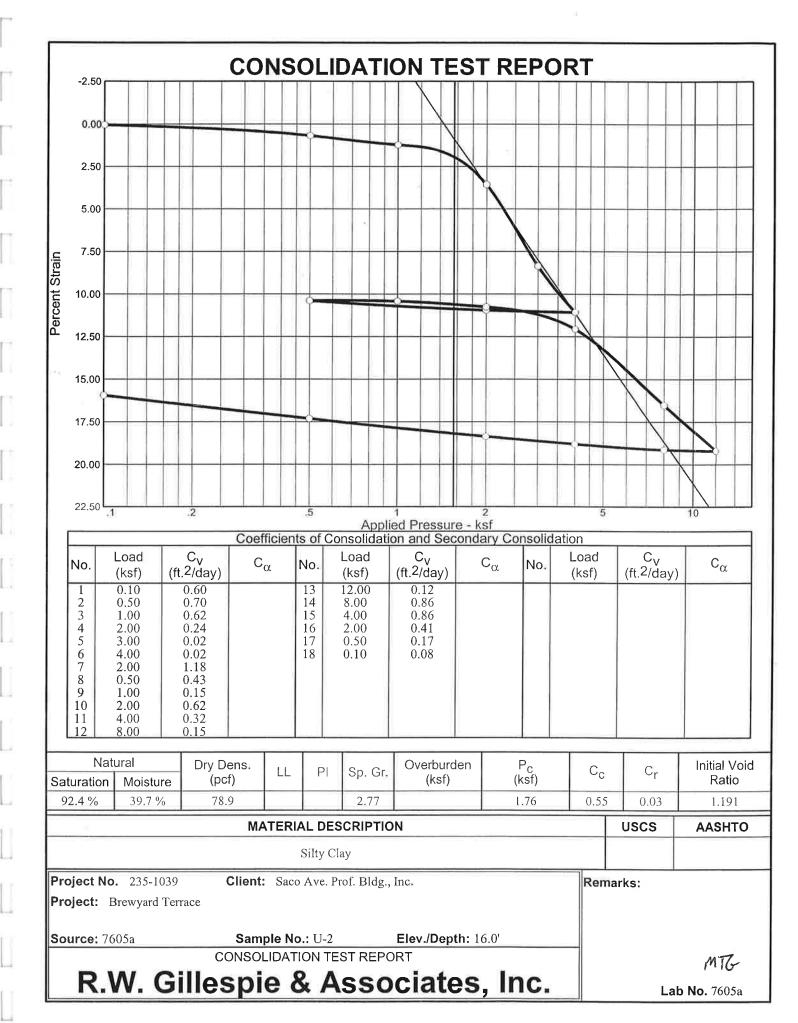
...

R. W. Gillespie & Associates, Inc.

APPENDIX B

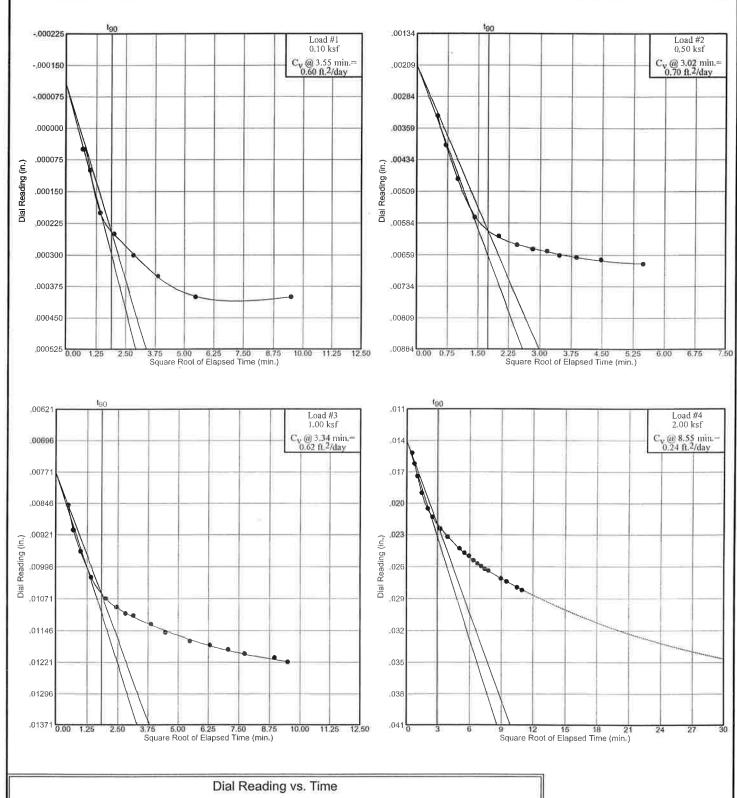
LABORATORY TESTING

Geotechnical Investigation
The Brewyard Terraces
Portsmouth, New Hampshire



Project No.: 235-1039
Project: Brewyard Terrace

Source: 7605a Sample No.: U-2 Elev./Depth: 16.0'



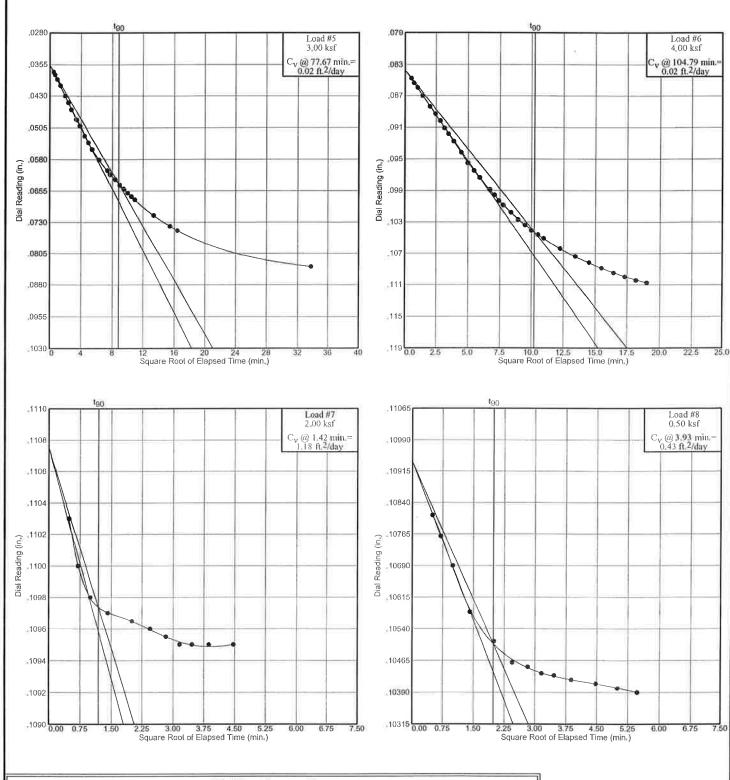
R.W. Gillespie & Associates, Inc.

Lab No. 7606a



Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605a Sample No.: U-2 Elev./Depth: 16.0'



Dial Reading vs. Time

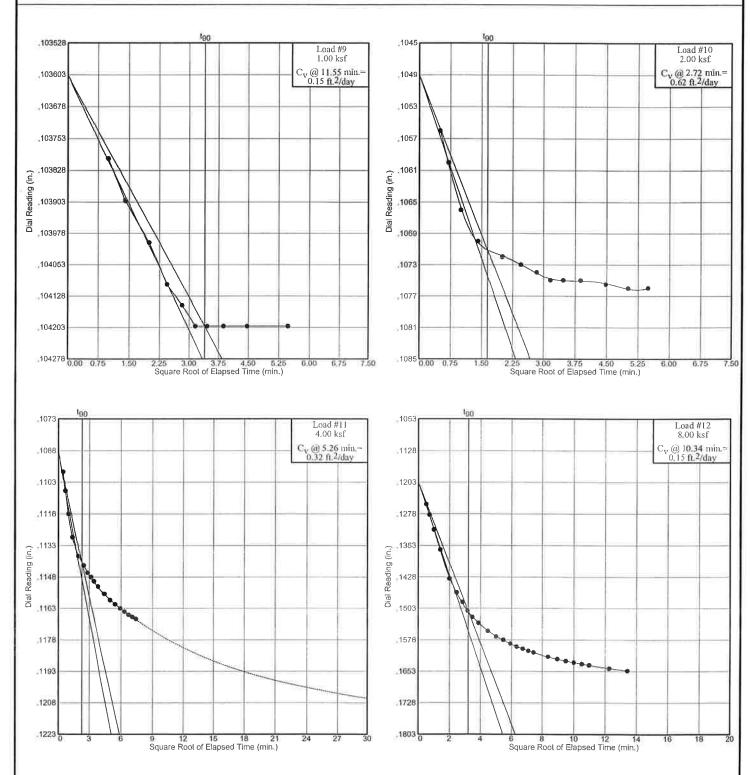
R.W. Gillespie & Associates, Inc.

Lab No. 7607a



Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605a Sample No.: U-2 Elev./Depth: 16.0'



Dial Reading vs. Time

R.W. Gillespie & Associates, Inc.

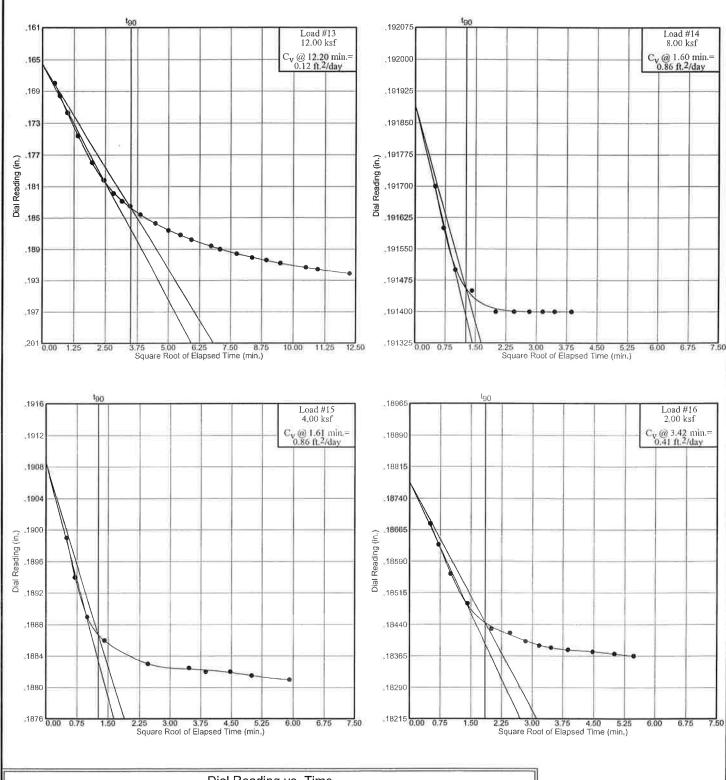
Lab No. 7608a

Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605a

Sample No.: U-2

Elev./Depth: 16.0'



Dial Reading vs. Time

R.W. Gillespie & Associates, Inc.

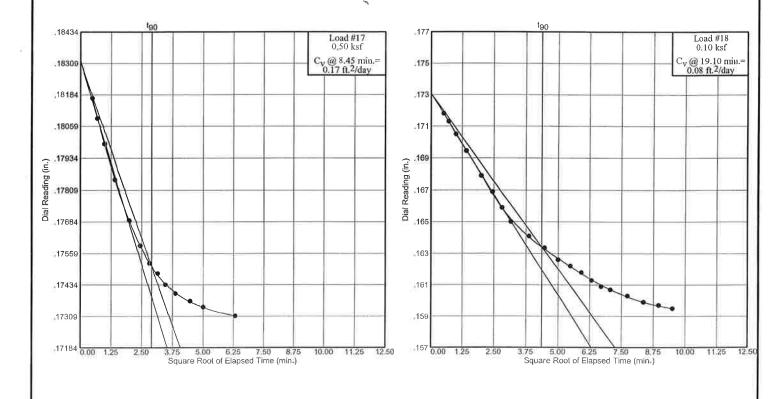
Lab No. 7609a

Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605a

Sample No.: U-2

Elev./Depth: 16.0'



Dial Reading vs. Time

R.W. Gillespie & Associates, Inc.

Lab No. 7610a

Laboratory Vane Shear Test Results

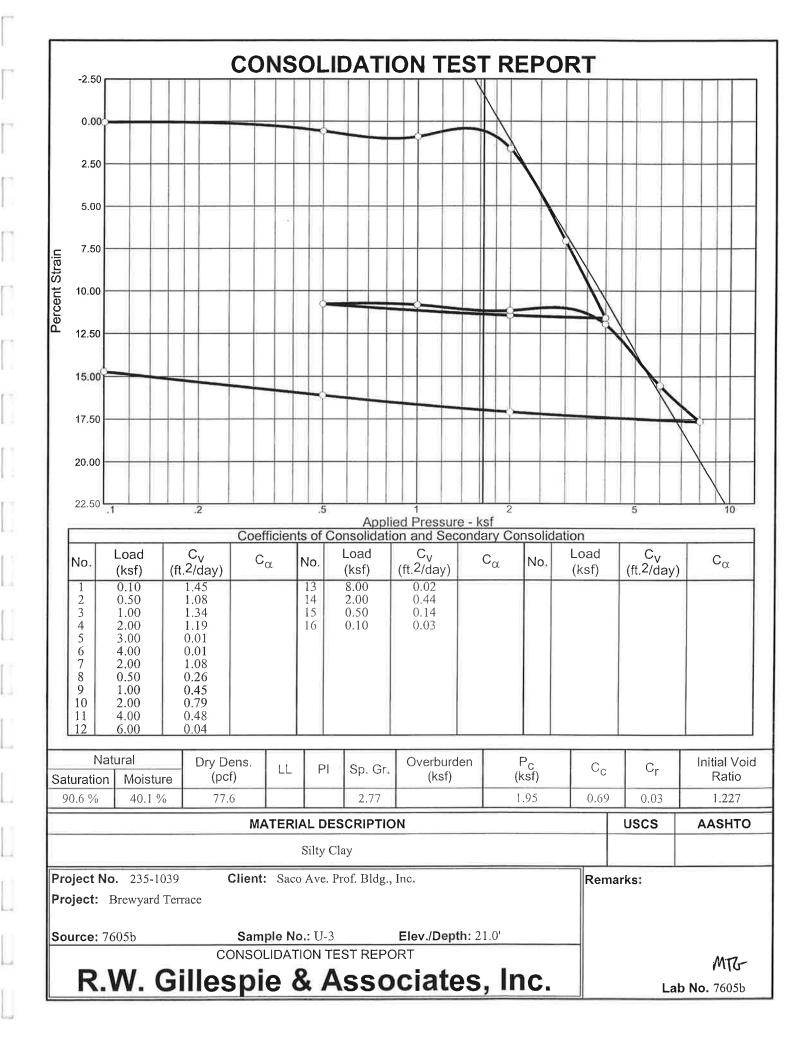
Project: Brewyard Terrace Client: Saco Avenue Professional Building, Inc.

Project No.: 235-1039

Boring No.	B-6	Lab No.	7605A 15' to 17'		
Sample No.	U-2	Depth			
Test No.	S _u (Undisturbed)	S _u (Residual)	Moisture Content		
1	560 psf	60 psf	41.7%		
2	480 psf	100 psf	45.7%		
3	420 psf	60 psf	43.7%		
4	420 psf	60 psf	41.9%		

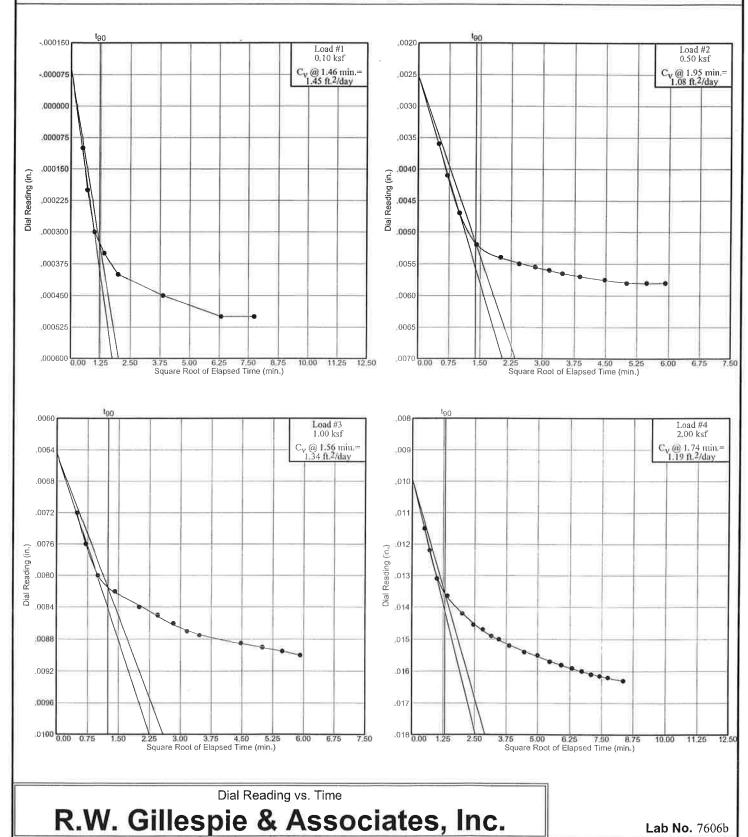
Checked By: MTG

G:\PROJECTS\9235\9235-1000\9235-1039\Lab\235-1039 Lab No. 7605 vanes.wpd



Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605b Sample No.: U-3 Elev./Depth: 21.0'

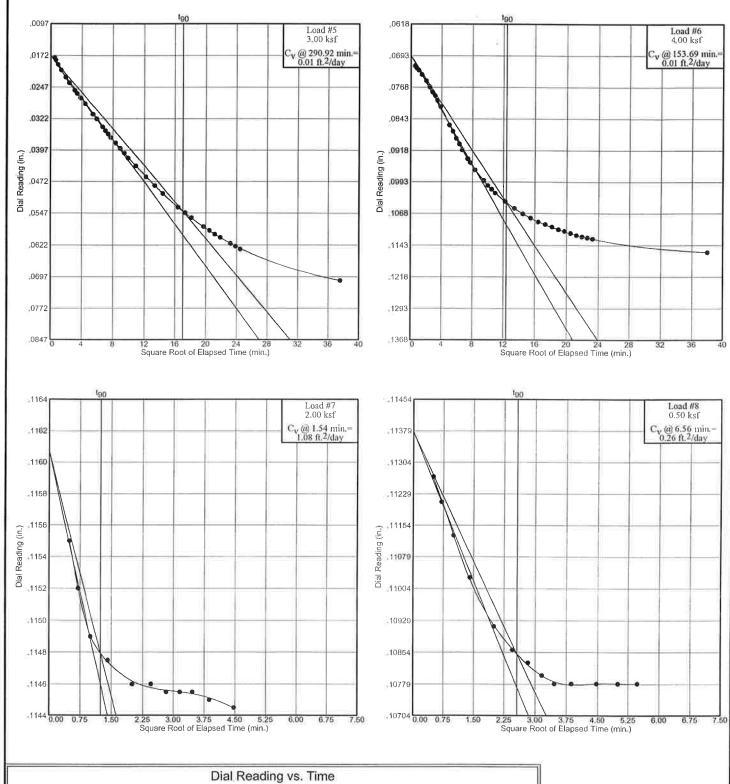


Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605b

Sample No.: U-3

Elev./Depth: 21.0'

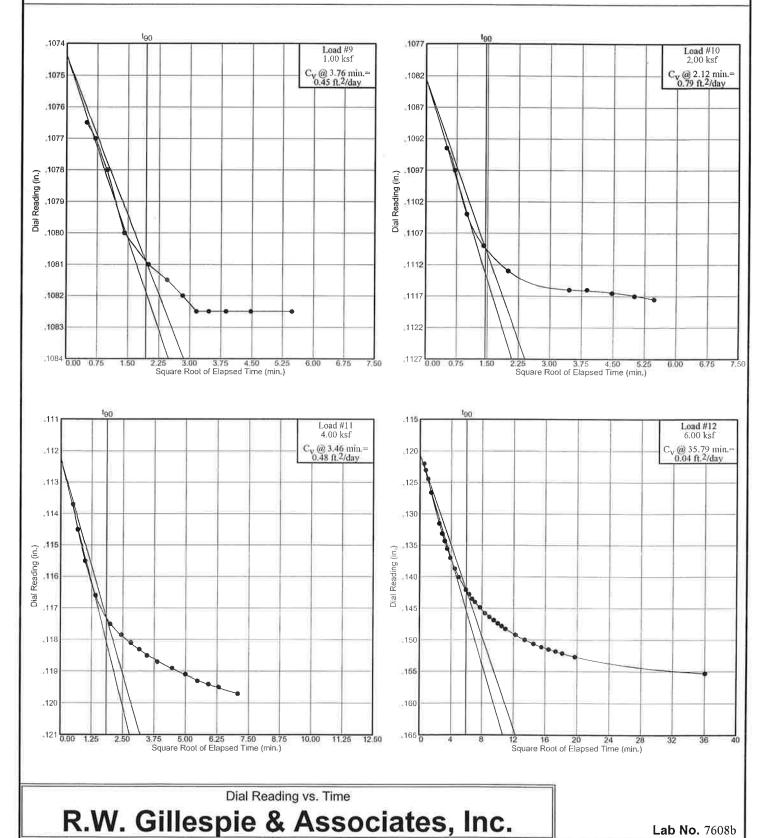


R.W. Gillespie & Associates, Inc.

Lab No. 7607b

Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605b Sample No.: U-3 Elev./Depth: 21.0'

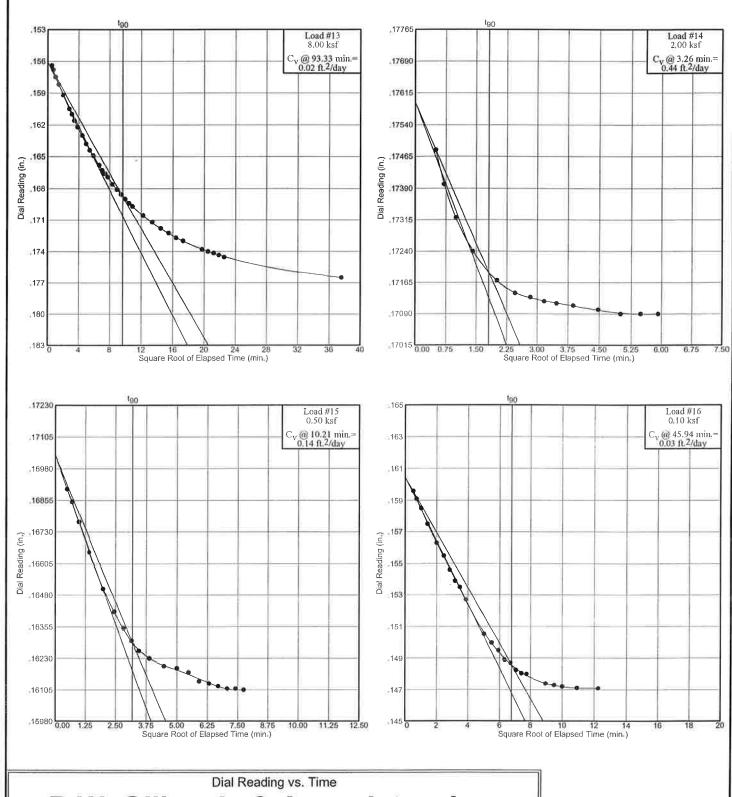


Project No.: 235-1039 Project: Brewyard Terrace

Source: 7605b

Sample No.: U-3

Elev./Depth: 21.0'



R.W. Gillespie & Associates, Inc.

Lab No. 7609b

Laboratory Vane Shear Test Results

Project: Brewyard Terrace Client: Saco Avenue Professional Building, Inc.

Project No.: 235-1039

Boring No.	B-6	Lab No.	7605A 20' to 22'		
Sample No.	U-3	Depth			
Test No.	S _u (Undisturbed)	S _u (Residual)	Moisture Content		
1	460 psf	70 psf	47.4%		
2	420 psf	60 psf	44.1%		
3	460 psf	60 psf	40.7%		
4	420 psf	60 psf	40.4%		

Checked By: MTG

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