SITEDEVELOPMENTPLANS

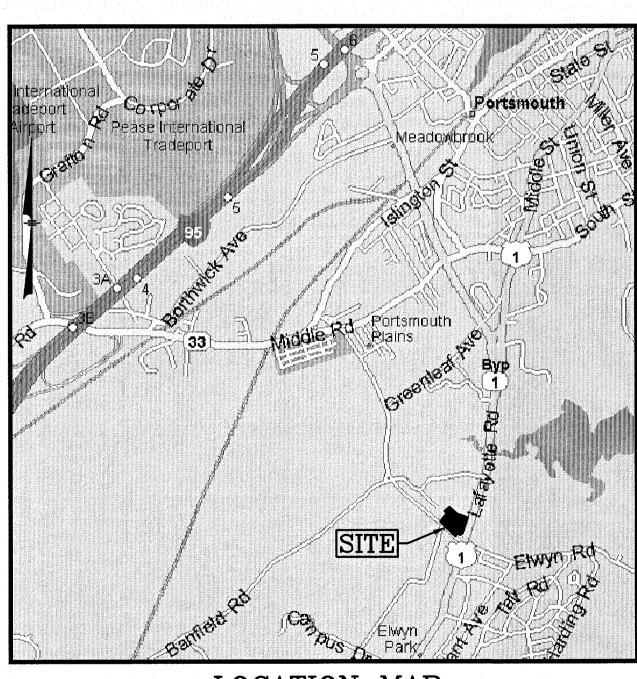
for

TAX MAP 252 LOTS 4, 5 & 9 1400 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE 03801

Prepared for:

4 AMIGOS, LLC

321D LAFAYETTE ROAD HAMPTON, NEW HAMPSHIRE 03842



LOCATION MAP

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- SITE PLAN
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- **UTILITY PLAN**
- **EROSION & SEDIMENT CONTROL PLAN**
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- 1 OF 1. BUILDING C RENDER CONCEPTS (A-2.C)

1	REV SHEETS 3-9,	11, P&P, A-1.C	СМТ	2/20/20
NO	DESCRIP	TION	BY	DATE

ENGINEER:

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REVISIONS TITLE SHEET

ASSESSORS MAP 252 - LOTS 4, 5 & 9 1400 LAFAYETTE ROAD

PORTSMOUTH, NEW HAMPSHIRE PREPARED FOR: AMIGOS, LLC

GPINET.COM

321 LAFAYETTE ROAD UNIT D

603.893.0720

Greenman-Pedersen, Inc. 44 Stiles Road Construction Management Suite One

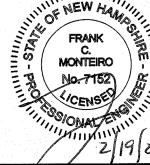
Salem, NH 03079

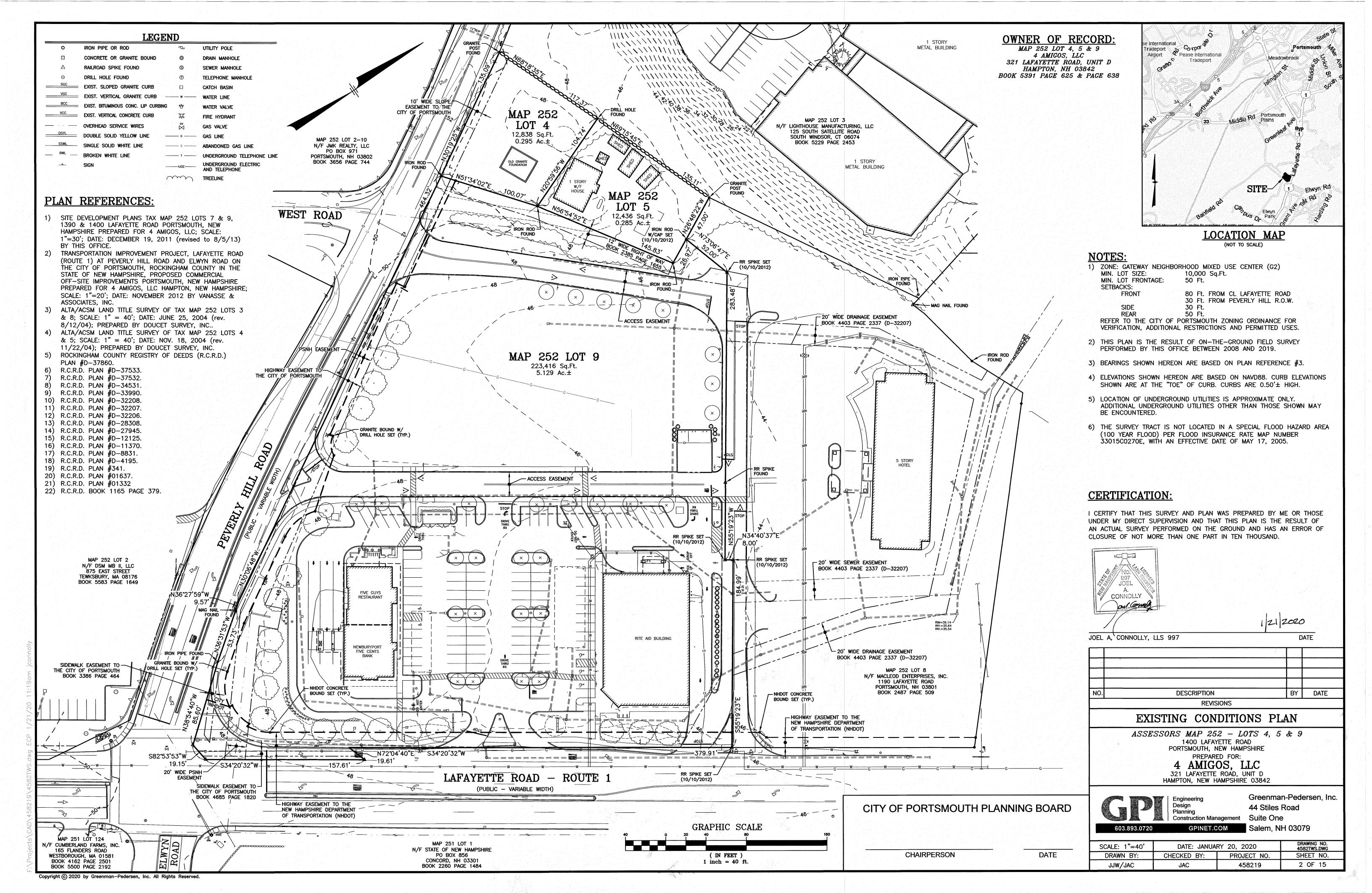
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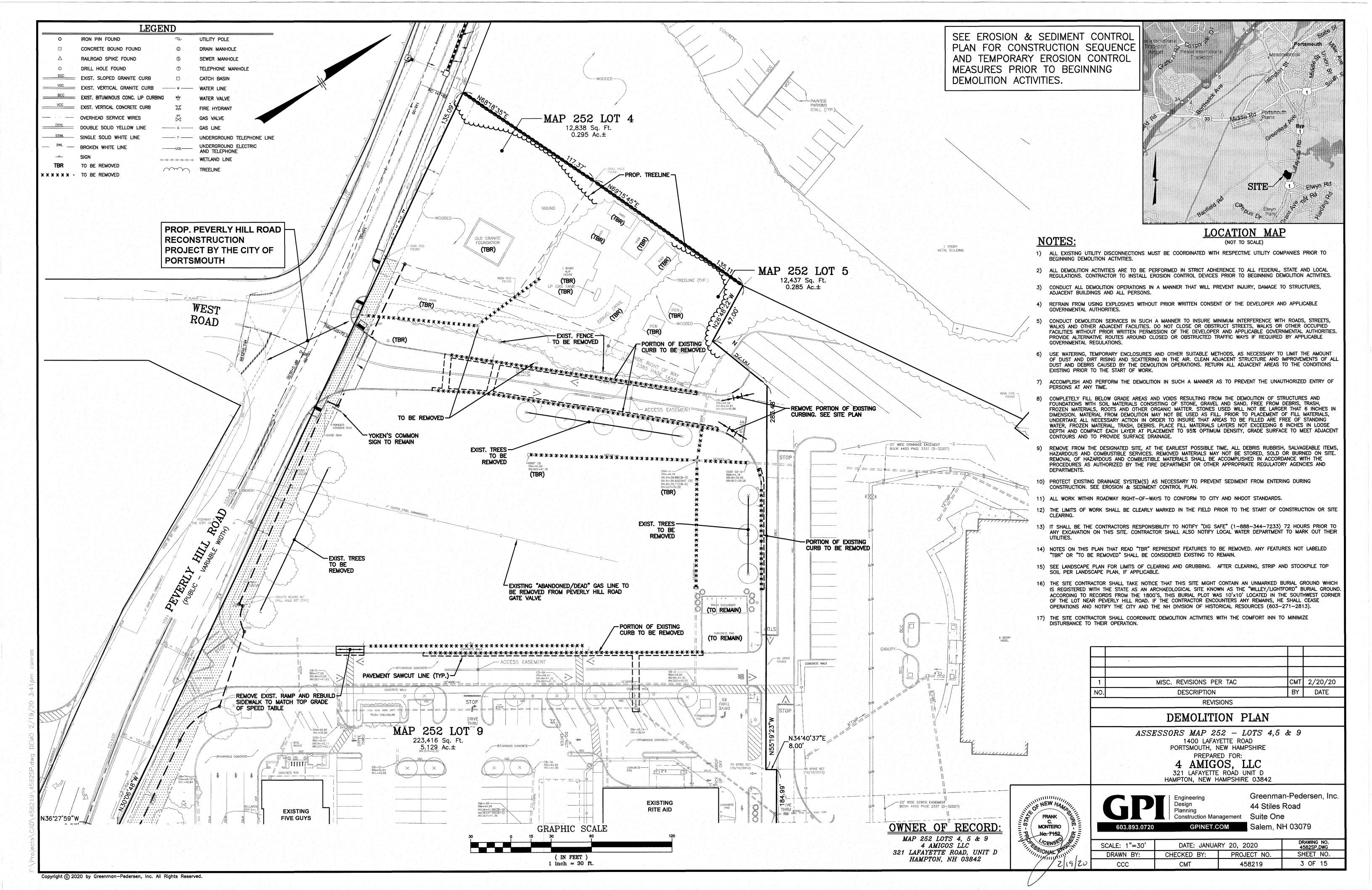
CITY OF PORTSMOUTH PLANNING BOARD

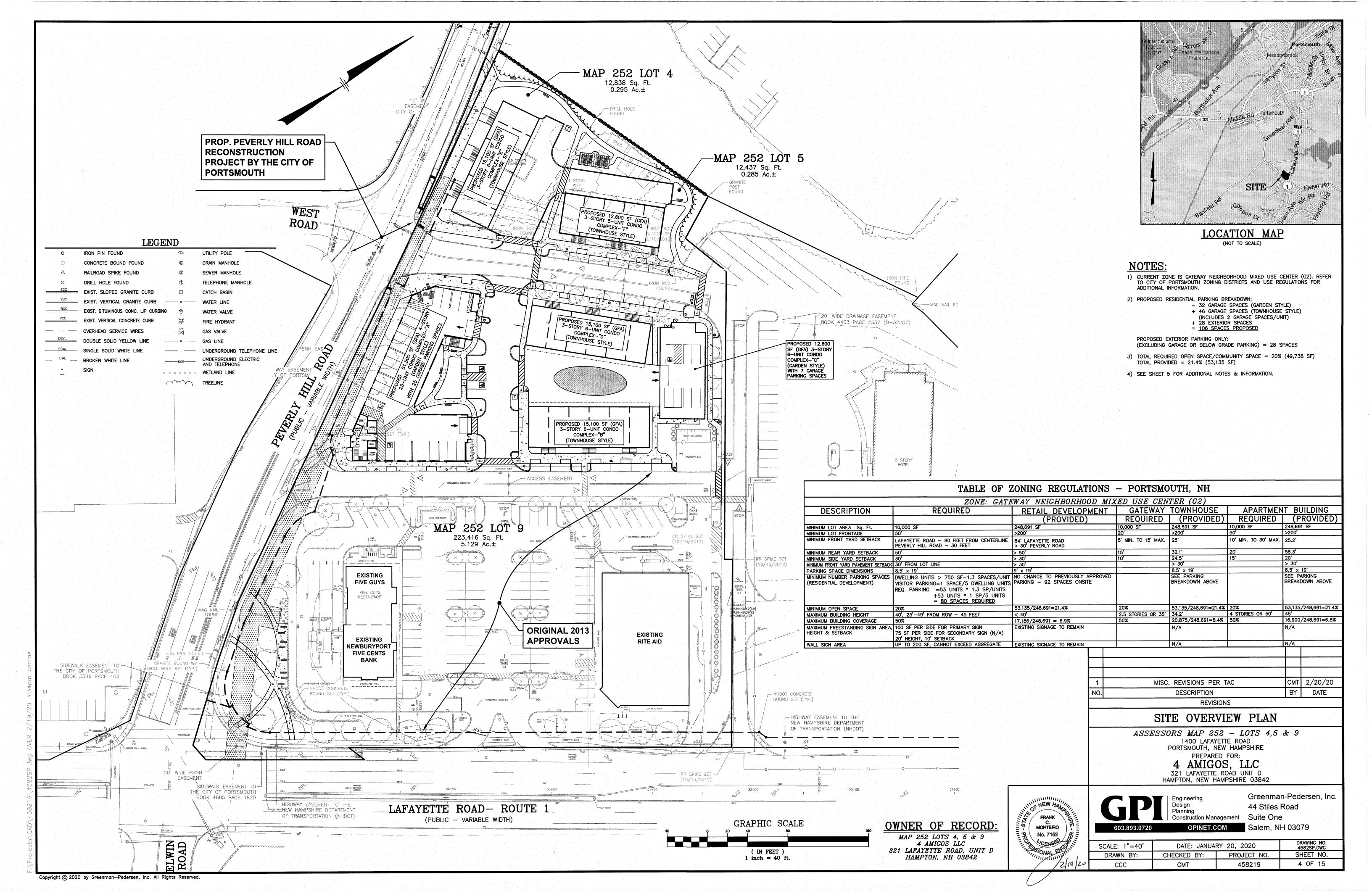
CHAIRPERSON

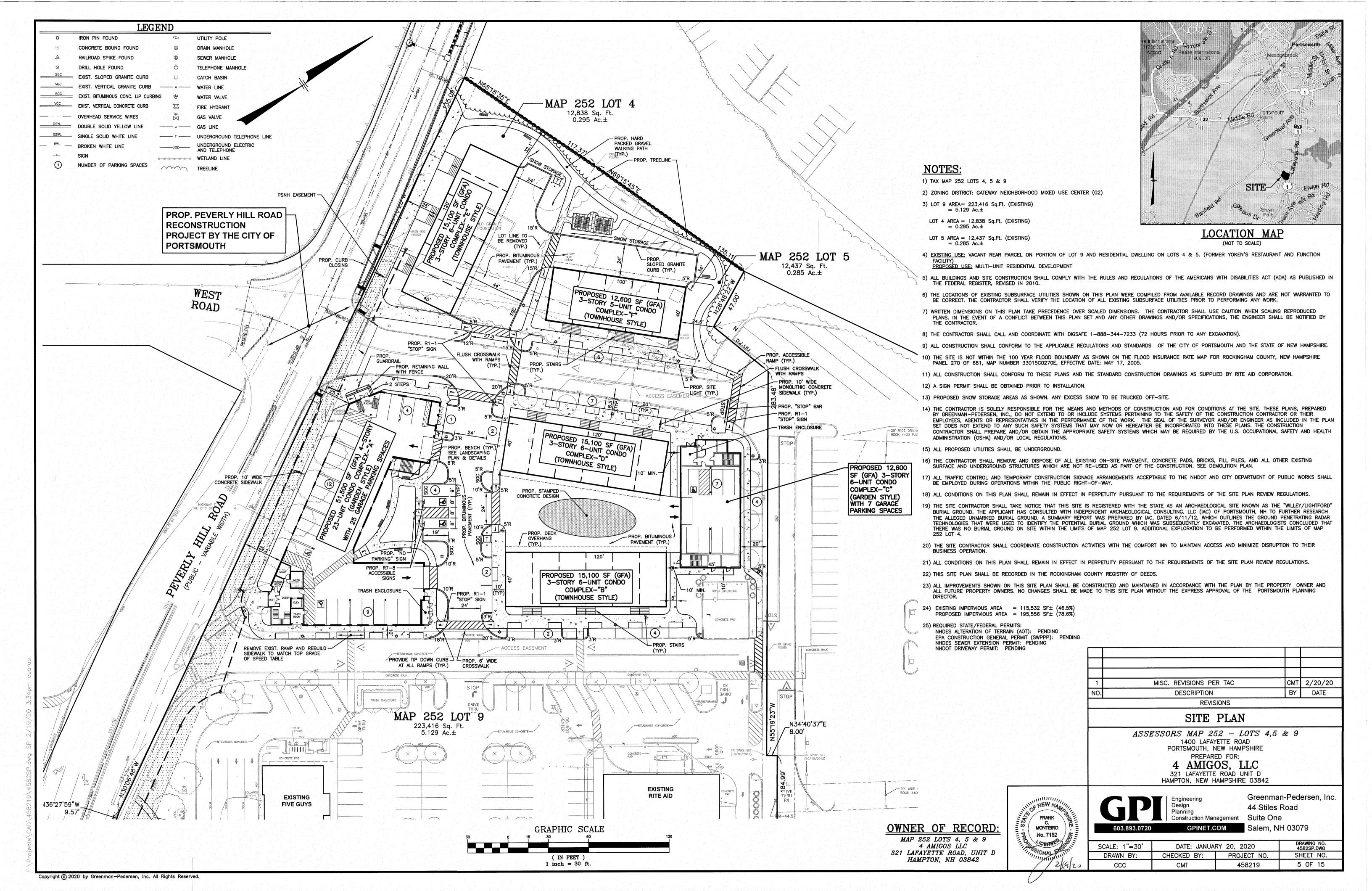
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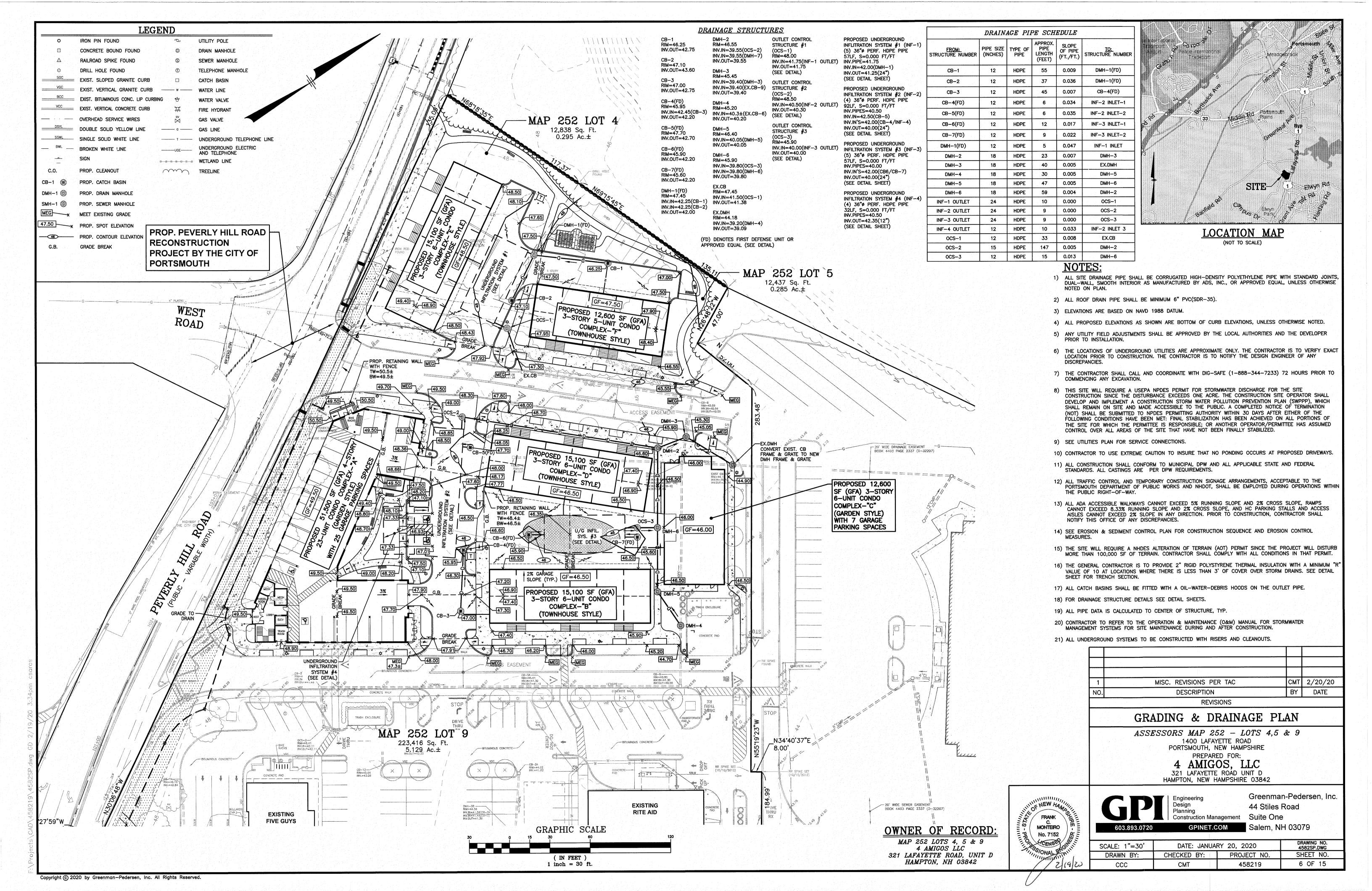


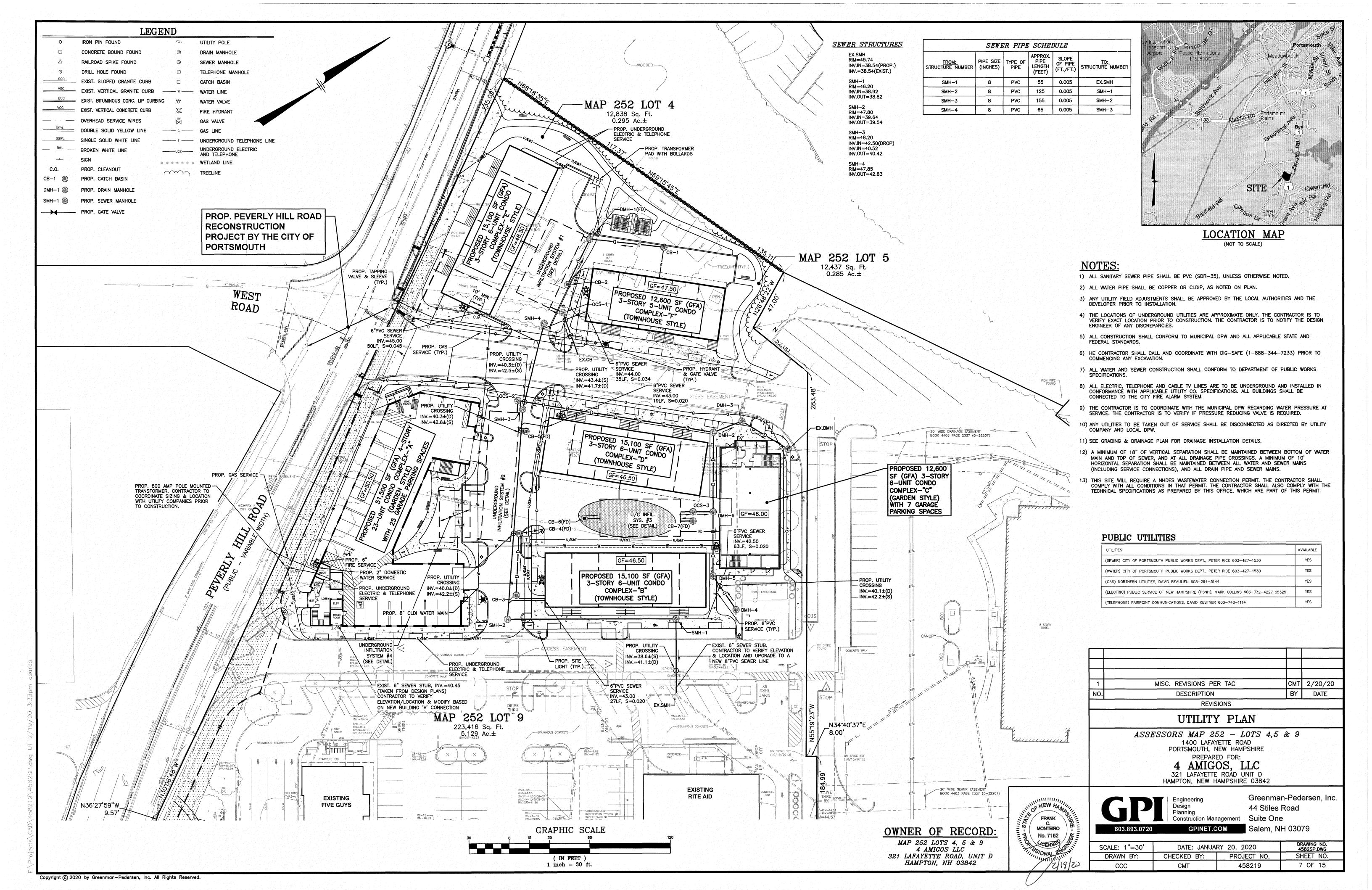


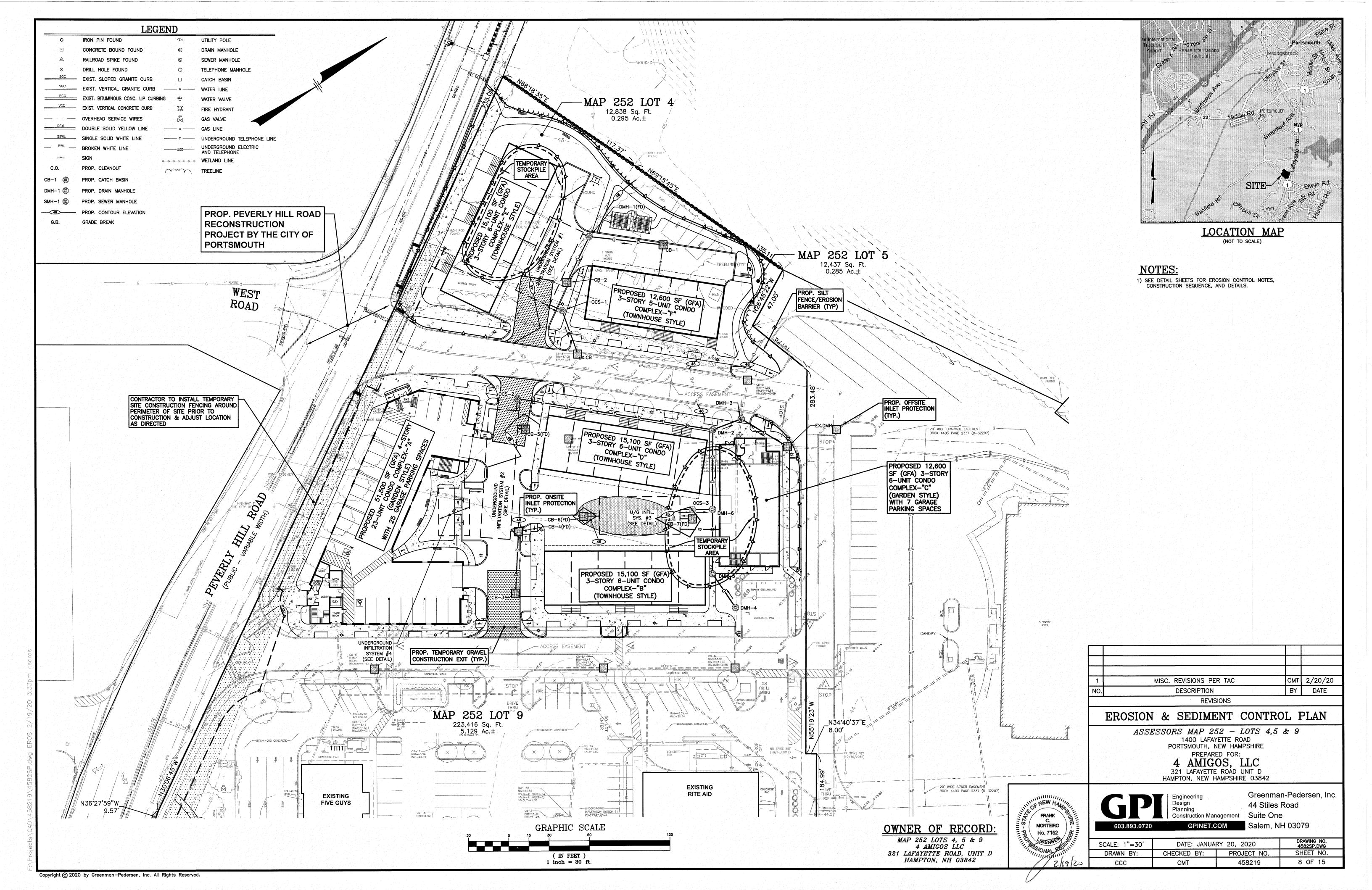


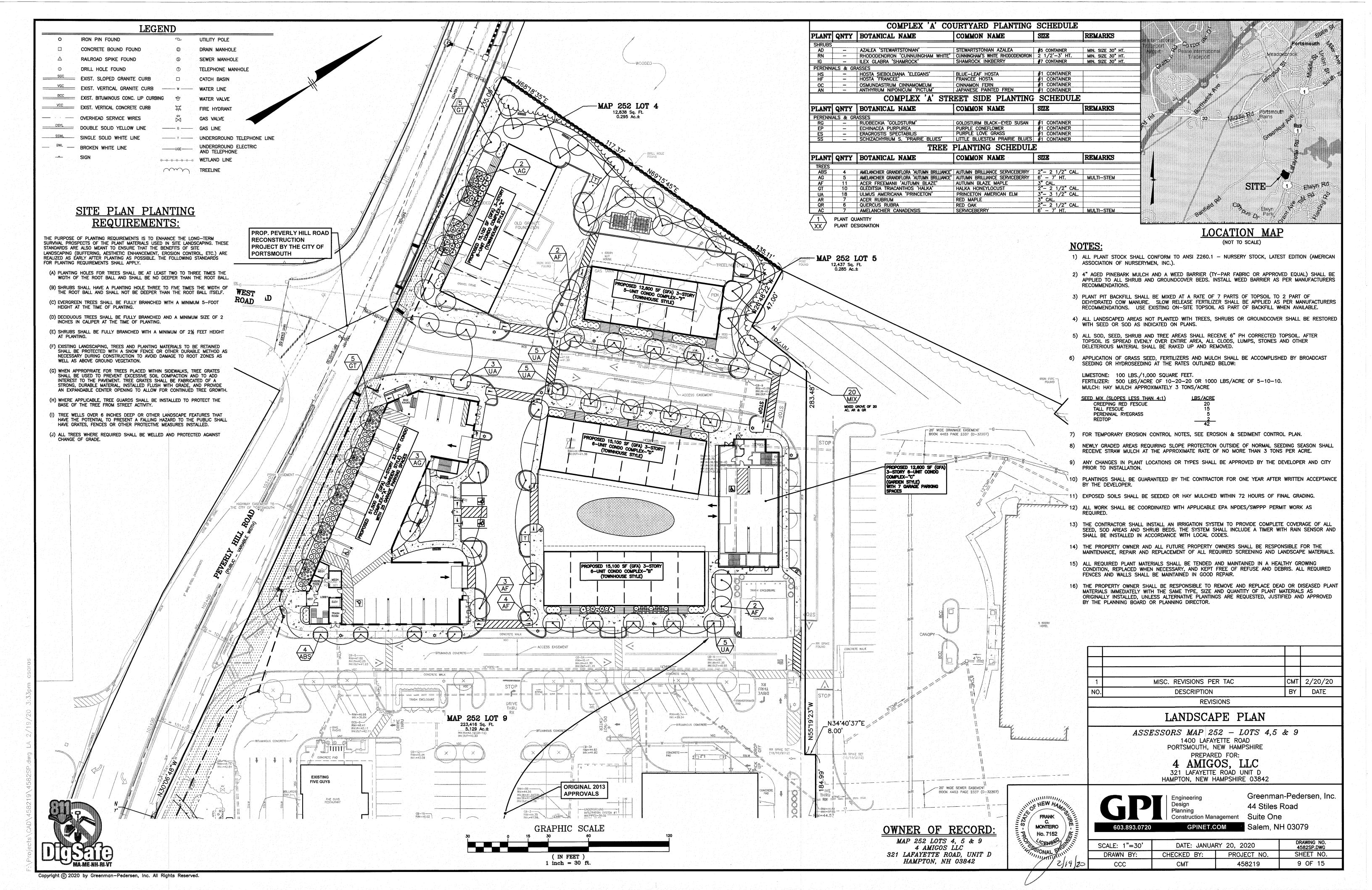


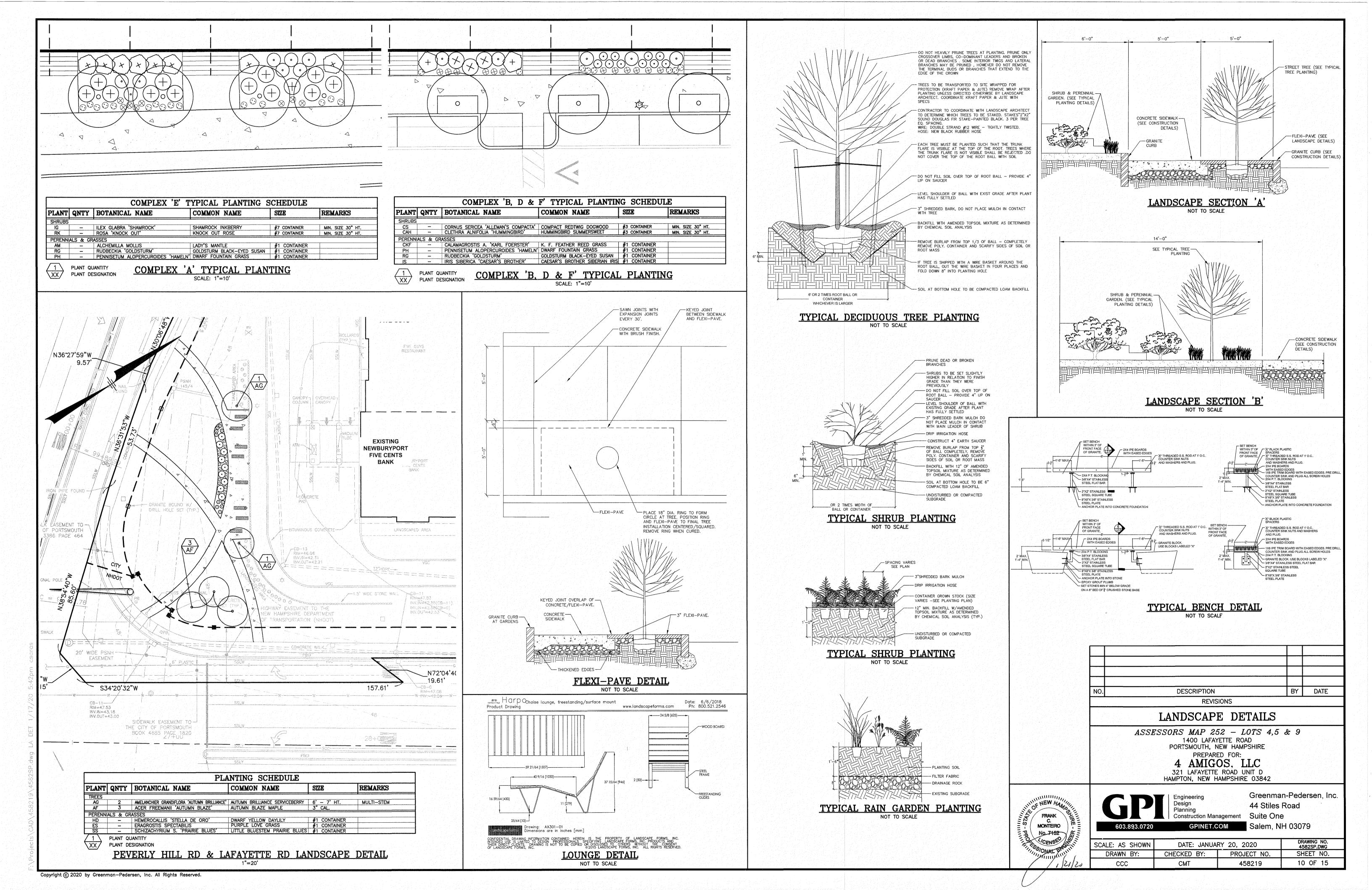


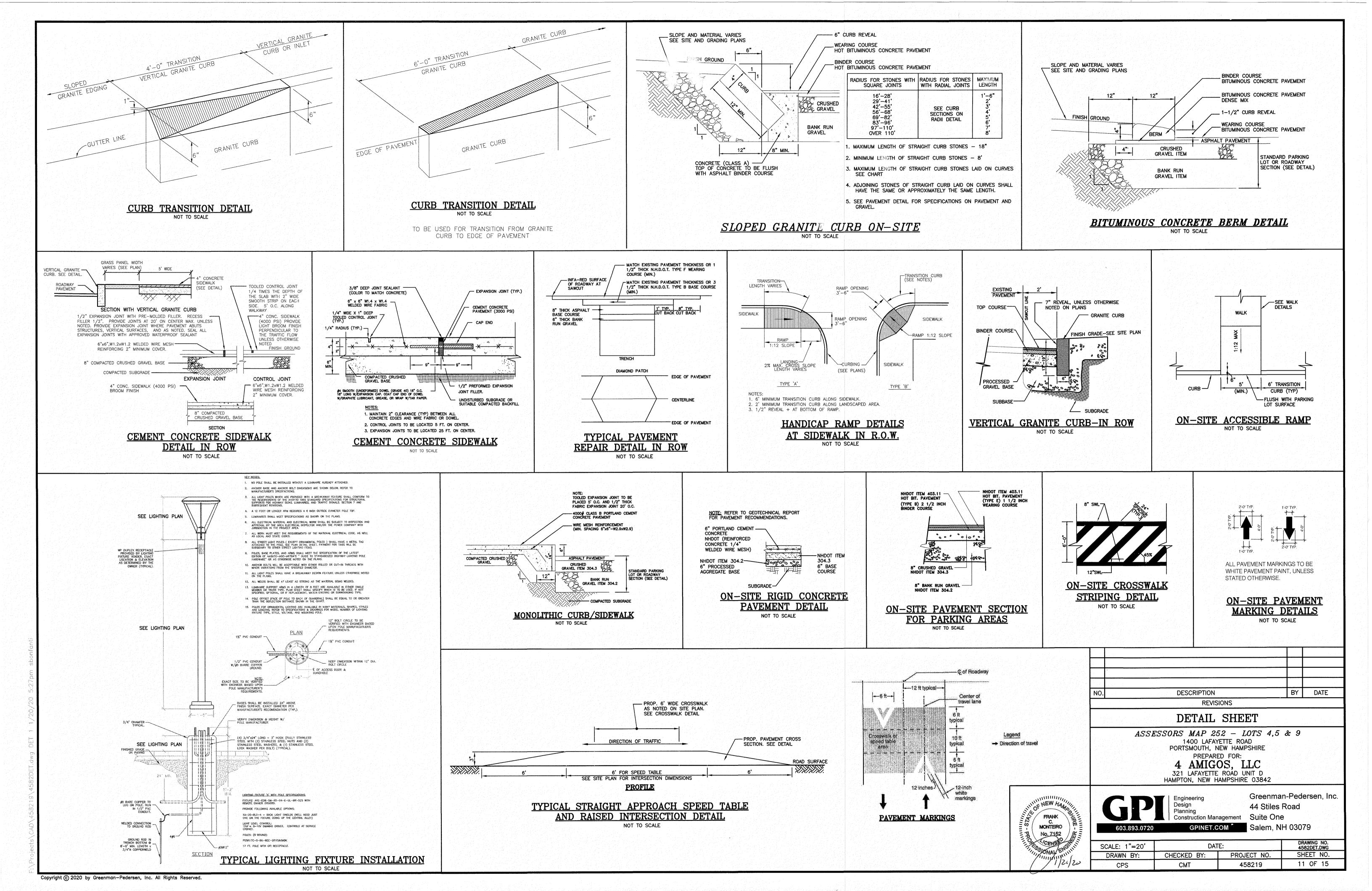


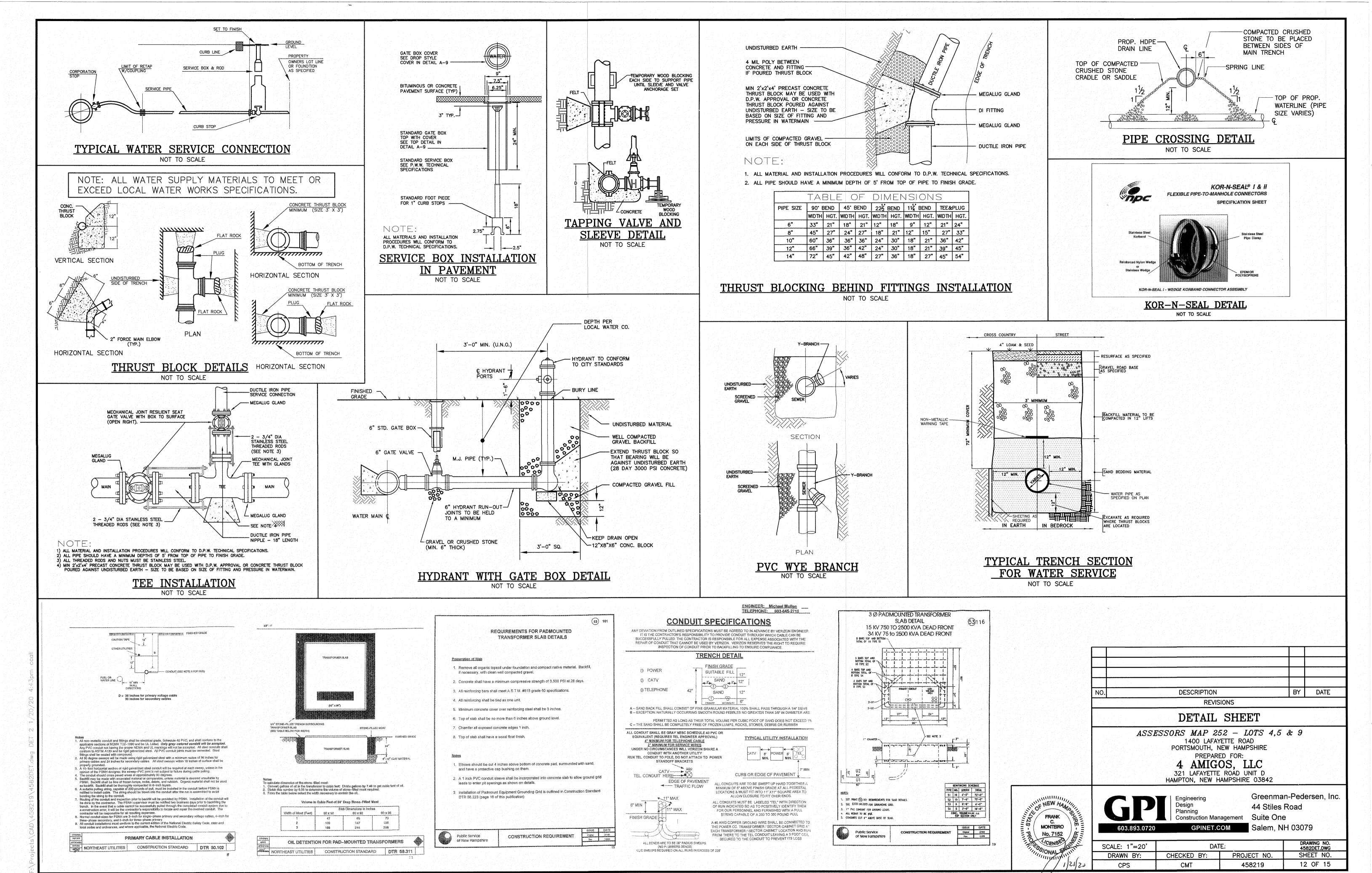




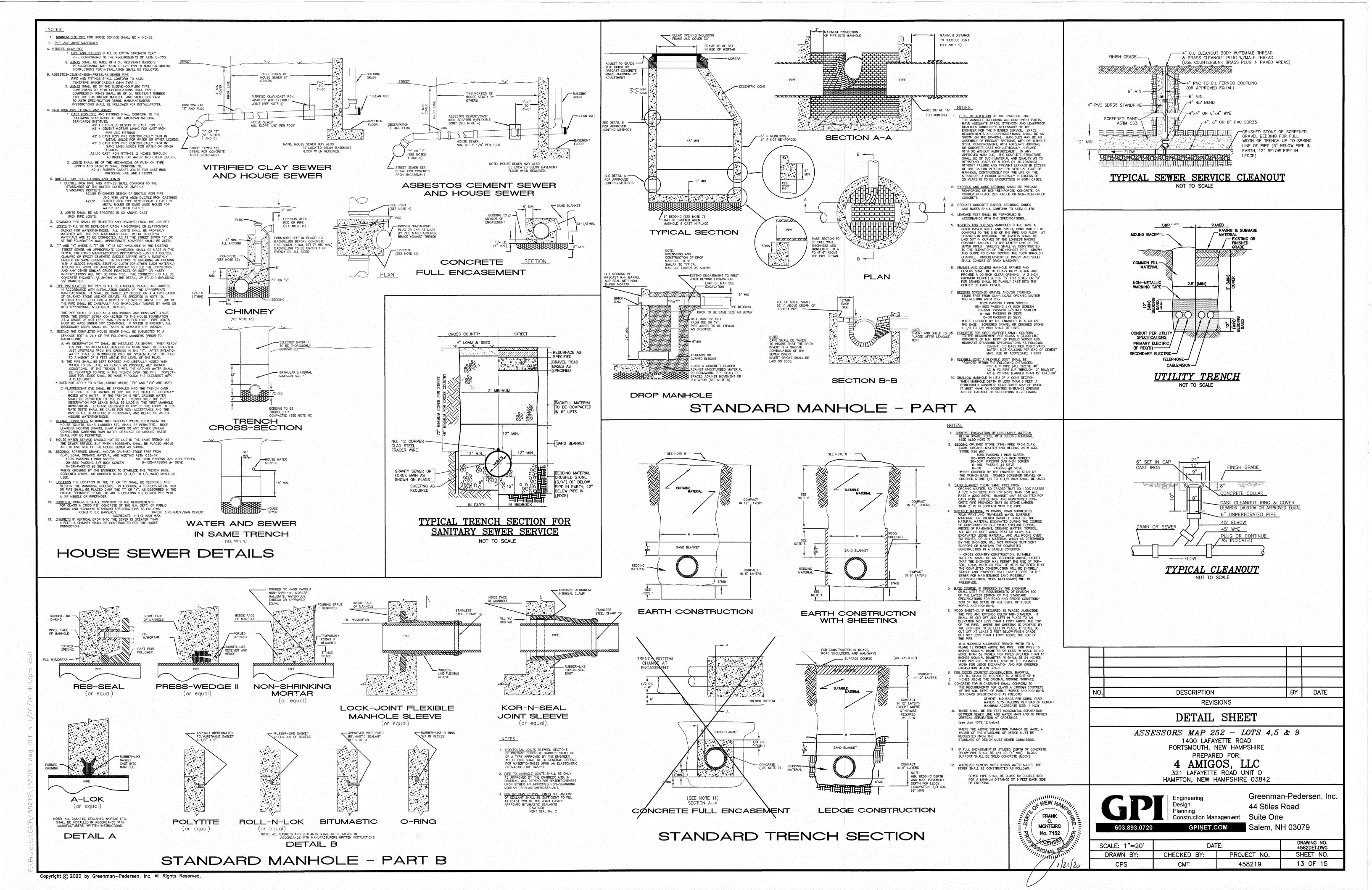


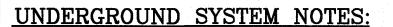




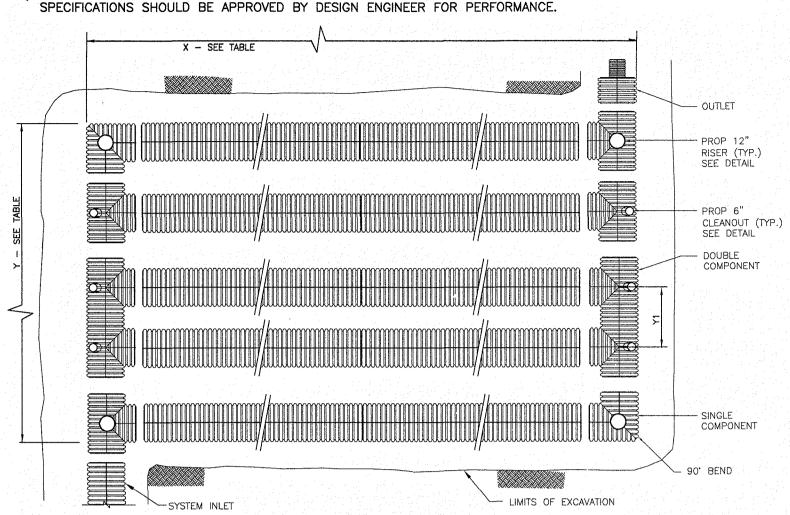


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- 1) ALL SITE DRAINAGE PIPE SHALL BE CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE, DUAL WALL, SMOOTH INTERIOR AS MANUFACTURED BY ADS, INC., OR APPROVED EQUAL, UNLESS OTHERWISE NOTED ON PLAN.
- 2) CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND PROVIDE SHOP DRAWINGS FROM MANUFACTURER. SUBSTITUTIONS AND SHOP DRAWINGS SHOULD BE APPROVED BY THE ENGINEER.
- 3) PARTS SPECIFICATIONS SHOWN ARE AS PROVIDED BY ADS, INC., OR APPROVED EQUAL. ANY CHANGES TO THESE



NOTE: FOR ADDITIONAL DETAILS, SEE ADS STD-702 & STD-703. UNDERGROUND STORMWATER INFILTRATION SYSTEM TABLE

63"

63"

63"

63"

24.5

19.25'

24.5'

19.25'

Classes of Embedment and Backfill Materials

Tab/e 5-2

inishnitiri	MINIMAR REPORT OF THE PERSONS	manalia king paraking	THE PROPERTY OF THE PROPERTY O	Marin Merchantstrand M	punincianiminiminiminimini Melet	- Procession de la Company de	Milessianianian pridationis	ASTA	D2321	·	MINIMUM INTERNATION OF THE PROPERTY OF	Managaran Indonesia	
ASTM D2321 ⁽¹⁾			ASTM D24ST	aashtci Mad	Compaction Required (Std	Percentage Passing Sleve Size			Sizes Atterberg Limits			Coefficients	
lanss	Description	Notation	Description	Piotetios	Proctor Densit	1 1/5 km. (40mmm)	No. 4 (4.75mm)	No. 200 (0.075mm)	LL	Pl	Uniformity Cu	Curvatur Cc	
tV ₍₄₎	Open-graded, clean manufactured aggregates	миничницич 147А	Angular crushed stone or rock, crushed gravel, crushed stagt large voids with little or no lines	***************************************	40 4.1529 1933 1944 1945 1945 1945 1945 1945 1945 1945	#00%	\$10%	** 5%	Pion P	'iastic			
18	Dense-graded clean mainfactired, processed aggregates	N/A	Angular crushed stone of other Class is A material and stone/sand mikbures with gradations selected to minimize raignation of adjacent soils; little or no thes	5 56	Chanped to Slight	100%	\$\$0%	≪5'hi	Non P	lastic	mittermissionersenski	/A	
declaration refractions	1 (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	GW GW	Well-graded gravel, gravel- sand mixtures; little or no fines Poony-graded gravels, gravel-sand mixtures; little				<50% of "Goarse Fraction"				>-4 ************************************	1 to 3	
100	Clean, coarse grained solis	SVV	grave-sam mitures, see or no fines Well-graded sands, gravell sands; little or to fines	57 6 67	Moderate (85%	100%	>50% of "Coarse	<5%,	Mon P	lastic		1 to 3	
en e		SF	Poorly-graded sends, gravelly sands; little or no fines				Fraction*		propressor som		<-5	\$< 10 f>	
The state of the s	Coarse-Graine Soils, borderlin clean to writner	GW-GC, SF SM	Sends and gravels which are borderline between clean and with fines	łu/A		100%	Varies	5% to 12%	Nos F	kastic	Same as for and	GW. GP. S	
	amanana an, maka sakamat	GM	Sity gravels, gravel-sand-s mixtures	aman disenti landi			<50% of "Coarse		, to	<4 of <"A" Line			
=	Coarse-graines	GС	Clayey gravels, gravel-sand clay mixtures	sand with	Moderate to	100%	Fraction"	12% to 50%	N/A	<7 & >"A" Line	N	/A	
-	aries also trices	514	Sity sands, sand-sit mixtures	<10% fine	141gh (90%)		>50% of "Coarse			>4 or <"A" Line			
		sc	Clayey sands, sand-clay mixtures				Fraction"	nagona mindont pon jandoj inga EM 1930 M.	ananasanna a	>7 & >″A″ 1.Ine	Marianikalisalimintali	Kamen sa aksaraja na da ak	
^V _{IX}	inorganic fine-	ML.	Inorganic sits and very fine sands, rock flour, sity or clayey fine sands, sits with slight plasticity	KUA	MP	100%	100%	>50%	<50 ₽	<4 or <"A" Line	N	/A	
	grained solls	CI.	Inorganic clays of tow to medium plasticity; gravelly, sandy, or slity clays; lean clays	AVM						>7 & >"A" Line	a sia ang ang ang ang ang ang ang ang ang an	prapr apas na kazanda zakand sa r i	
IVB	inorganic fire-	P -€ E†	Rorganic sits, micaceous of distomaceous tine sandy of sity solis, elastic sitts		14777	100%	100%	>5 (Y46	>50	c"A" Line	N	VA.	
назины)1688) (418 418 418 418 418 418 418 418 418 418 418 418 418 418 418 418 418 	ничения и документи НСУ 	Inorganic clays of high plasticity, fat clays	NJA MA	al becaling constitution that begins being showing	mamaramama	низнани тичничний	Mickelson of the Stranger		>"A" Line ≪4 or		APPRICATION OF THE PERSON OF T	
		OL.	Organic sits and organic sity clays of low plasticity	PLA					<50	«"A" Line			
, V	Organic solts o Highly organic solts		Organic clays of medium t high plasticity, organic sits	NJA	N/R	100%	16004	±50%	>50	к"Д" Line	,	I/A	
		ks.å. Ammerannamana	Peat and other high organi soits	NUA				лина ль принцаминальная мин		***************************************	illusuusuusia immaalaansistasisis	1555 SEE SEE SEE SEE SEE SEE SEE SEE SEE	

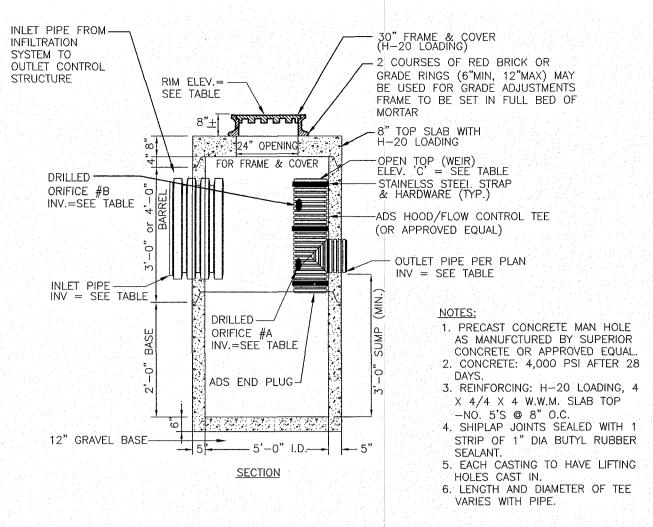
1) Refer to ASTM D2321 for more complete soil descriptions.

Inlet pipe(s) can

enter anywhere

(OR GRATE) (ROUND)

- 2) Class IVA material has limited applications and can be difficult to place and compact; use ONLY with the approval of a soil expert. Contact ADS for additional information regarding suitability of this backfill material.
- 3) N/R indicates that use of this material and/or compaction level is not recommended by ASTM D2321 for the backfill
- 4) When using open-graded material, additional precaution must be taken to reduce or eliminate the risk of migration of fines from adjacent material. Refer to ASTM D2321 for more complete information.



			OUTLE'	r con	TROL STE	RUCTURE	TABLE	
ocs	RIM	ORIFICE	SIZE (IN.)	ELEV.	INV.IN (SIZE)	INV.IN (ELEV)	INV.OUT (SIZE)	INV.OUT (ELEV
		Α	9" DIA.	42.90				<u> </u>
#1	48.00	_	_		24"	41.75	12"	12" 41.75
		С	12" DIA.	45.40		al a men and a		Park and the
		Α	6" DIA.	41.25				
#2	48.50	_			24"	40.50	15"	40.30
		С	15" DIA.	44.15				
		Α	6" DIA.	41.10				
#3	45.90	_			24"	40.00	12"	40.00
		С	12" DIA.	43.65				

PRECAST CONCRETE OUTLET CONTROL STRUCTURE (OCS) FOR UNDERGROUND INFILTRATION SYSTEM

CROSS COUNTRY

4" LOAM & SEE

- PROP.

RIGID

POLYSTYRENE

INSULATION

THERMAL

IN BEDROCK

THE GENERAL CONTRACTOR IS TO PROVIDE 2" RIGID POLYSTYRENE THERMAL

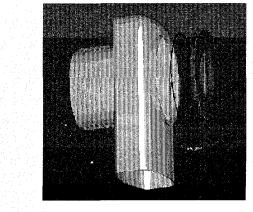
TYPICAL TRENCH SECTION

FOR STORM DRAIN

NOT TO SCALE

LESS THAN 3' OF COVER OVER STORM DRAINS.

INSULATION WITH A MINIMUM "R" VALUE OF 10 AT LOCATIONS WHERE THERE IS



Front View

of Cover

-RESURFACE AS

GRAVEL ROAD

SPECIFIED

BASE AS

LSPECIFIED

BACKELL

BLANKET

BEDDING

MATERIAL

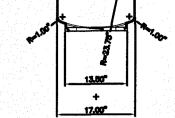
CRUSHED

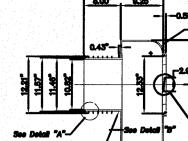
STONE (1/2"

MATERIAL TO

COMPACTED

N 12" LIFTS





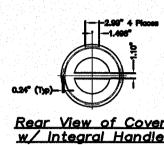
THE ELIMINATOR **CATCH BASIN**

OIL & DEBRIS

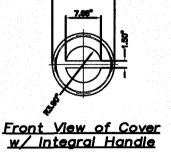
TRAP

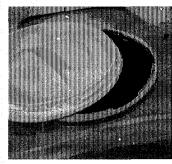
Enlarged Section 1-1

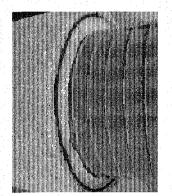
Enlarged Front View

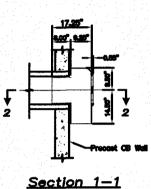


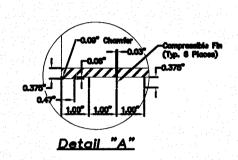
Rear View of Cover

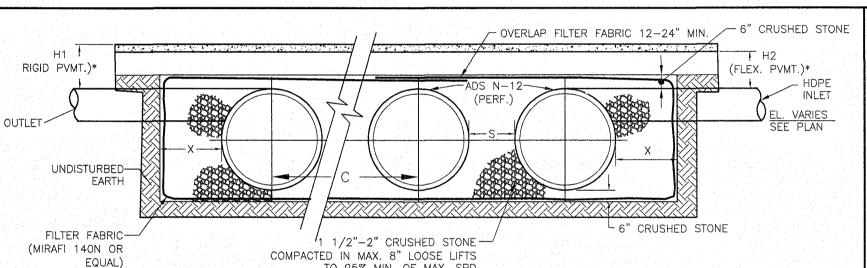












TO 95% MIN. OF MAX. SPD

(INCHES) PERF

36"

36"

36"

36"

ELEV. (A

41.75

40.50

40.00

40.50

* H1, H2 = 12" FOR UP TO AND INCLUDING 48" N-12 * H1, H2 = 24" FOR 60" N-12

57'

57'

32'

*SEE TYPICAL CROSS SECTION BELOW.

UG INFILTRATION

INFILTRATION SYS#1

INFILTRATION SYS#2

INFILTRATION SYS#3

INFILTRATION SYS#4

* FOR TRAFFIC LOAD INSTALLATIONS PROVIDE 24" COVER FOR 42"-60" N-12

	NOMINAL DIAMETER	NOMINAL O.D.	TYPICAL SPACING "S"	TYPICAL SPACING "C"	TYPICAL SIDE WALL "X"
	12"	14.5"	11"	25.4"	8"
	15"	18"	12"	28.9"	8"
	18"	21"	13"	33.9"	9"
하면 없었습니	24"	28"	13"	40.7"	10"
U.G. INF	30"	36"	18"	53.1"	18"
	36"	42"	22"	63"	18"

42" 48" 24" 71.9" 18"

1. ALL UNDERGROUND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.

27.5'x60

22.25'x95

27.5'x60'

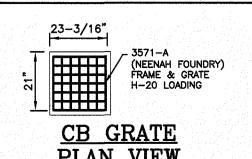
22.25'x35

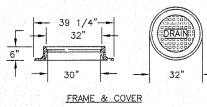
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- 3. SEE GRADING & DRAINAGE PLAN FOR INVERT DATA.
- 4. EXISTING TOPSOIL, BRUSH, TREES, BOULDERS, FILL AND DEBRIS TO BE REMOVED FOR 5' ALL AROUND UNDERGROUND SYSTEMS DOWN TO NATIVE MATERIAL. BACKFILL WITH STONE BEDDING MATERIAL (CLASS 1A OR 1B).

GENERAL NOTES:

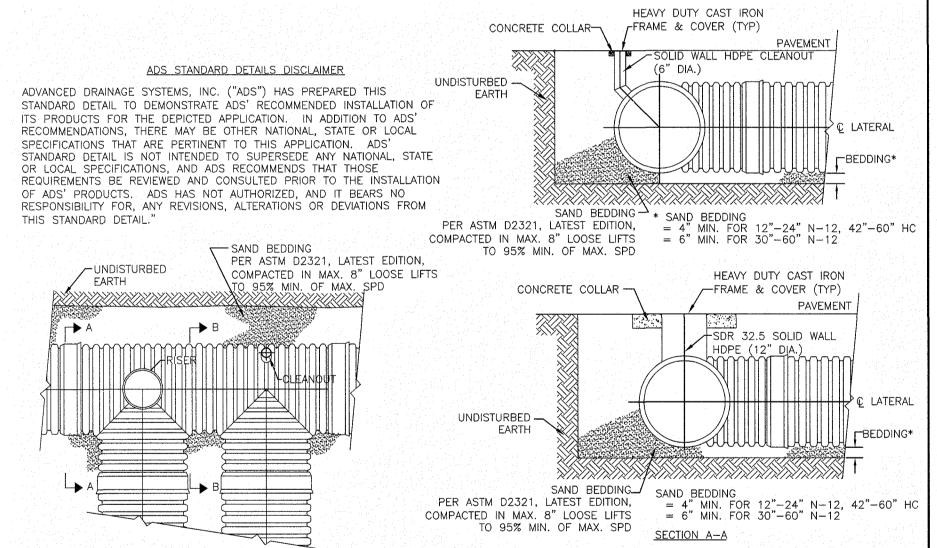
- ALL REFERENCES TO SAND, STONE, OR GRAVEL MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321
- 4. NO STORMWATER FLOWS ARE TO BE DIRECTED TO THE INFILTRATION SYSTEMS UNTIL ALL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED. FILTER FABRIC: GEOTEXTILE FABRIC SHALL BE MIRAFI 140N (OR APPROVED EQ.) TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE OR UNSUITABLE FOR INFILTRATION, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED E GEOTECHNICAL ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL. ALL DELETERIOUS OR UNSUITABLE FILL MATERIAL SHALL BE REMOVED BELOW THE TRENCH BOTTOM UNTIL NATIVE MATERIAL IS ENCOUNTERED.
- BEDDING: SUITABLE MATERIAL SHALL BE CLEAN COMPACT SAND. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE PLACED IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST
- MINIMUM COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR

TYPICAL UNDERGROUND INFILTRATION SYSTEM CROSS SECTION NOT TO SCALE





DMH PLAN VIEW



TYPICAL RISER AND CLEANOUT DETAILS

many

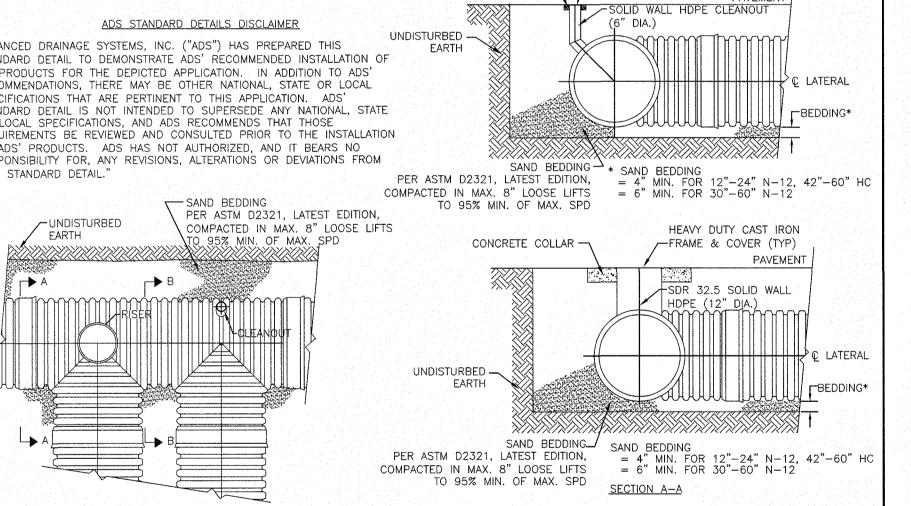
VARIES (SEE NOTE 5)

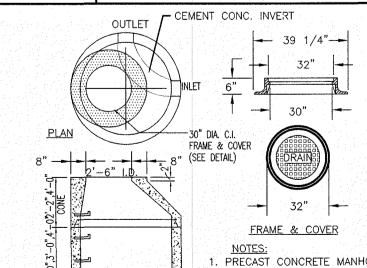
PIPE INVERTS: 78 1/4 in / 6.52 ft

SUMP: 0' in / 0.00 ft

PREASSEMBLY REFERENCE: 54 % in / 4.57 ft

BOTTOM OF INTERNALS: 37 ½ in / 3.13 ft





DRAINAGE

SPECIFIED

SHEETING

REQUIRED

GENERAL ARRANGEMENT DRAWINGS ONLY. CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC THE DIAMETER OF THE INLET & OUTLET PIPES MAY BE NO MORE THAN 24".

MULTIPLE INLET PIPES POSSIBLE (REFER TO PROJECT PLANS). INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO PROJECT PLANS). 5. PEAK FLOW RATE AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER. 6. LARGER SEDIMENT STORAGE CAPACITY MAY BE PROVIDED WITH A DEEPER SUMP DEPTH.

THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF. ITEM SIZE (in) DESCRIPTION RUNOFF.

B. THE TREATMENT SYSTEM SHALL FIT WITHIN THE LIMITS OF EXCAVATION (AREA AND DEPTH) AS SHOWN IN THE PROJECT PLANS AND WILL NOT EXCEED THE DIMENSIONS FOR THE DESIGN FLOW RATES SPECIFIED HEREIN.

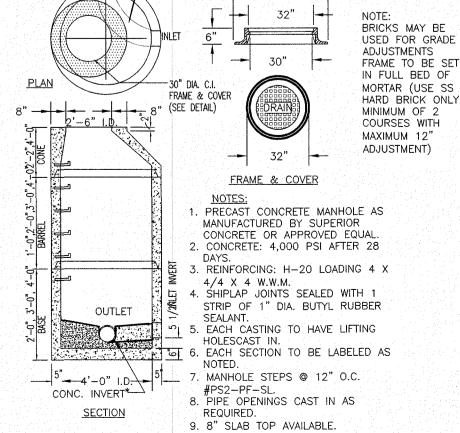
C. THE TREATMENT SYSTEM SHALL REMOVE GREATER THAN OR EQUAL TO 90% OF TSS BASED ON THE TARGET 72 I.D. PRECAST MANHOLE LEDGER SUPPORT PARTICLE SIZE (TPS) OF 106 MICRONS AND/OR 80% OF TSS BASED ON THE TPS OF 230 MICRONS AT 0.7 CFS AND 1.2 CFS, RESPECTIVELY.

THE TREATMENT SYSTEM SHALL CONVEY THE PEAK ON-LINE FLOW RATES OF UP TO 18 CFS WITHOUT CAUSING UPSTREAM SURCHARGE CONDITIONS. FULL-SCALE INDEPENDENT LABORATORY SCOUR TESTING SEPARATION MODULE 4 30 INLET PIPE (BY OTHERS) SHALL DEMONSTRATE EFFLUENT CONTROL OF LESS THAN OR EQUAL TO 5 MG/L FOR ALL FLOWS OF TO 200% OF MTRF-106.

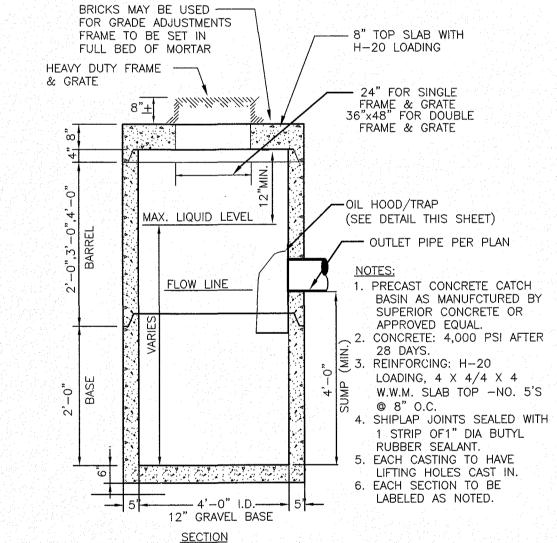
E. THE TREATMENT SYSTEM SHALL BE CAPABLE OF CAPTURING AND RETAINING FINE SILT AND SAND SIZE PARTICLES. ANALYSIS OF CAPTURED SEDIMENT FROM FULL—SCALE FIELD INSTALLATIONS SHALL DEMONSTRATE PARTICLE SIZES PREDOMINATELY IN THE 20—MICRON RANGE 30 OUTLET PIPE (BY OTHERS) 6 30 FRAME AND COVER

"FIRST DEFENSE" UNIT DETAIL - FD-6HC NOT TO SCALE NOTE: CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND OBTAIN SHOP DRAWINGS FROM MANUFACTURER PRIOR TO

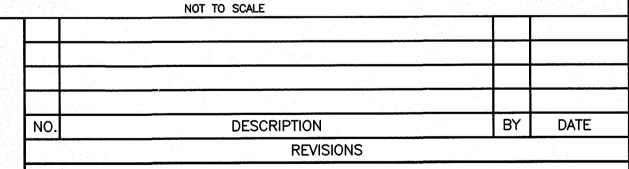
CONSTRUCTION.



PRECAST CONCRETE DRAIN MANHOLE



PRECAST CONCRETE CATCH BASIN WITH HOOD



DETAIL SHEET ASSESSORS MAP 252 - LOTS 4,5 & 9

1400 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE PREPARED FOR: 4 AMIGOS, LLC

321 LAFAYETTE ROAD UNIT D HAMPTON, NEW HAMPSHIRE 03842

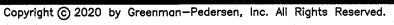


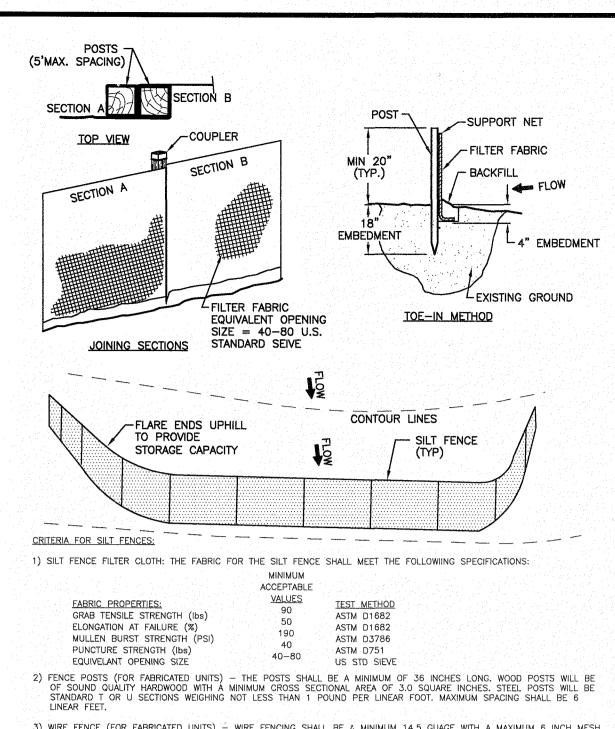


Greenman-Pedersen, Inc. 44 Stiles Road Construction Management Suite One

Salem, NH 03079

DRAWING NO. 4582DET.DWG SCALE: 1"=20' DATE: DRAWN BY: CHECKED BY: PROJECT NO. SHEET NO. 14 OF 15 CMT 458219





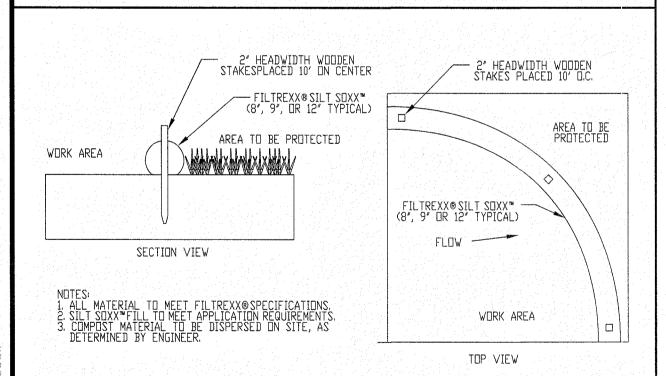
3) WIRE FENCE (FOR FABRICATED UNITS) - WIRE FENCING SHALL BE A MINIMUM 14.5 GUAGE WITH A MAXIMUM 6 INCH MESH 4) PREFABRICATED UNITS - PREFABRICATED UNITS MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDING: (1) THE FILTER

CLOTH AND FENCE POSTS MEET THE ABOVE CRITERIA; AND (2) THE UNIT IS INTALLED ACCORDING TO THE MANUFACTURER'S

- MAINTENANCE: 1) SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 2) IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3) SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMTELY ONE-HALF THE HEIGHT OF THE BARRIER. 4) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.
- CONSTRUCTION SPECIFICATIONS: 1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- 2) THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND (4" DEEP & 4" WIDE) AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- 3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- 4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE
- 5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EAC OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES (24" IS PREFERRED), FOLDED, AND STAPLED.

6) POSTS TO BE SPACED AT A MAXIMUM OF 6' ON CENTER.

SEDIMENT CONTROL FENCE



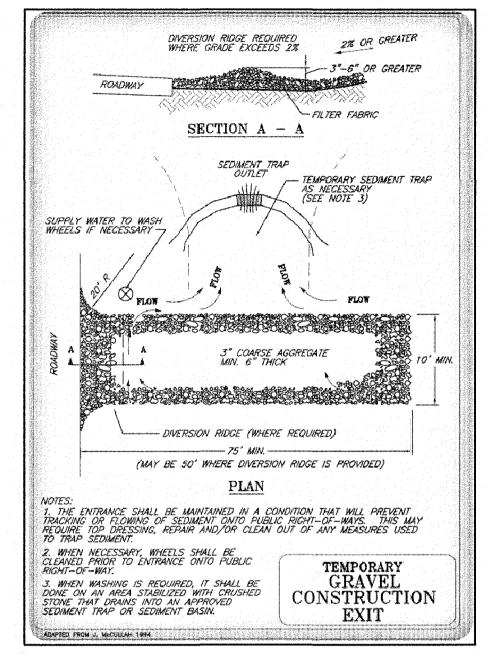
INSPECTION AND MAINTENANCE

- Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. Sediment control should be fregularly inspected to make sure they maintain their shape and are producing adequate hydraulic flowthrough. If ponding becomes excessive, additional Sediment control may be required to reduce effective slope length or sediment removal may be necessary. Sediment control shall be inspected until area above has been permanently stabilized and construction
- activity has ceased The Contractor shall maintain the Sediment
- control in a functional condition at all times and it shall be routinely inspected. 2. If the Sediment control has been damaged, it shall be repaired, or replaced if beyond repair.
- base of the upslope side of the Sediment control when accumulation has reached 1/2 of the effective height of the Sediment control, or as directed by the Engineer. Alternatively, a new Sediment control can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance. 4. Sediment control shall be maintained until
 - disturbed area above the device has been permanently stabilized and construction activity has ceased.

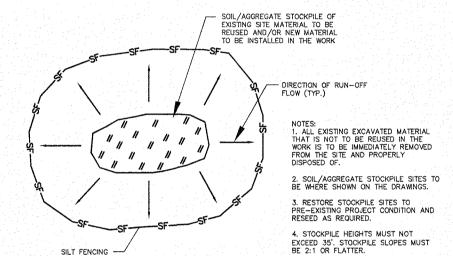
3. The Contractor shall remove sediment at the

- 5. The FilterMedia™ will be dispersed on site once disturbed area has been permanently stabilized. construction activity has ceased, or as determined
- by the Engineer. 6. For long-term sediment and pollution control applications, Sediment control can be seeded at the time of installation to create a vegetative iltering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Englacer

FILTREXX®SILT SOXX™



GRAVEL CONSTRUCTION EXIT



MATERIALS STOCKPILE DETAIL

4 Amigos LLC

Portsmouth, NH

458219

Horizon

Horizon

Fill

Horizon

Fill

Horizon

Fill

1400 Lafayette Road

December 16, 2019

12-1

>54"

12-2

>120"

>120"

12-3

>122"

>122"

12-4

>120"

>120"

12-5

>120"

>120"

Soil Texture

Loamy Sand

Loamy Sand

Soil Texture

Loamy Sand

Loamy Sand

Loamy Sand

Soil Texture

Mixed

Soils/pavement

Loamy Sand

Soil Texture

Mixed Soils

Soil Texture

Mixed Soils

Loamy Sand

44 Stiles Road, Suite One

Diane Pantermoller

TEST PIT DATA

SCS Soil:

SCS Soil:

SCS Soil:

Roots:

SCS Soil:

SCS Soil:

Roots:

Standing Water:

Roots:

Standing Water:

Standing Water:

Roots

Standing Water:

Roots:

Color

10vr 3/2

10yr 5/6

10yr 3/2

10yr 5/6

7.5 vr 4/3

Color

7.5yr 4/3

Color

Color

7.5yr 4/3

An Equal Opportunity Employer

Standing Water:

Consistence

FR

FR

FR

FR

Consistence

FR

Consistence

Consistence

Salem NH 03079

Futton.
MHF Dasign Committants. tas.

Project Address: Town, State:

Job Number:

Performed by:

Depth

0-48

48-54"

Test Pit No.

Depth

9-18"

18-120"

Test Pit N

ESHWT:

Refusal:

Depth

0-30"

30-122"

Test Pit No.

0-120"

Test Pit No

ESHWT:

Refusal:

Depth

0-36"

36-120"

Greenman-Pedersen, Inc.

ESHWT:

Refusal:

ESHWT

Refusal:

Test Pit No

ESHWT:

Refusal:

2. FAILURES SHALL BE REPAIRED IMMEDIATELY. IF ANY OF THE FOLLOWING OCCUR; SLOPE WASHOUT, MAT DISPLACEMENT, DAMAGE TO MAT, THE AFFECTED AREA SHALL BE REPAIRED & RESEEDED & MAT SHALL BE REPLACED OR RE-INSTALLED. BLANKET SLOPE PROTECTION FOR EROSION CONTROL NOT TO SCALE WOODEN STAKES DRIVEN INTO THE GROUND

* * *

TAMP SOIL OVER MAT/BLANKET

(300_{mm})/

* * **

TYPICAL STAPLE

4' (1.2m)

12" (300mm)

X/X/X/X/X/X/X/X//X/

TYPICAL INSTALLATION

BLANKETS FOR SLOPES

NOT TO SCALE

OF EROSION CONTRO

3/16-INCH DIAMETER

STEEL WITH 1 1/2

STEEL WASHER O

APPROVED EQUAL.

MATS/BLANKETS SHOULD

VERTICALLY DOWNSLOPE

(100mm)

ISOMETRIC VIEW

*

TYPICAL SLOPE

SOIL STABILIZATION

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET

DO NOT STRETCH.

3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.

4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END

MAINTAINING CONTACT WITH SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER & STAGGERED WITH THE STAPLES PLACED ALONG EDGES. PATTERN

S. BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

MAINTENANCE & MATS

1. BLANKETS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION & AFTER A

OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.

& AMOUNT OF STAPLES VARIES BY MANUFACTURER, SO FOLLOW

5. BLANKETS SHALL BE STAPLED ENOUGH TO ANCHOR BLANKET WHILE

RAINFALL IN EXCESS OF 1/2" IN A 24-HOUR PERIOD.

MANUFACTURERS RECOMMENDATIONS

Engineering | Design | Planning | Construction Management

None

None

None

None

None

None

Chatfield-Hollis-Canton

Mottles; Quantity/Contrast

None visible

Mottles; Quantity/Contrast

20% Gravel

Mottles: Quantity/Contrast

Mixed Soils/Urban

Fill/Pavement Gravel

20% Gravel

Mottles; Quantity/Contrast

Mottles: Quantity/Contrast

Bricks, Urban Fill

20% Gravel

p 603-893-0720

Bricks, Urban Fill

Chatfield-Hollis-Canton

Chatfield-Hollis-Canton

Chatfield-Hollis-Canton

Chatfield-Hollis-Canton

2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW. LAY BLANKETS LOOSELY & MAINTAIN DIRECT CONTACT WITH SOIL -

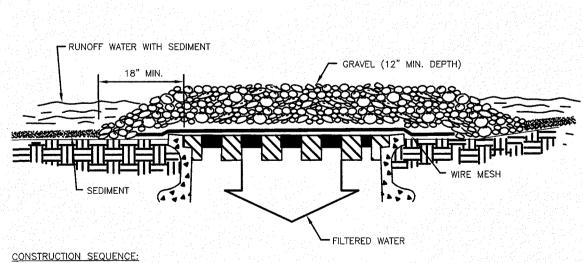
IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING.

ÖVERLAP

BE INSTALLED

LOW POINT SEDIMENTATION CONTROL BARRIER

NOT TO SCALE



1) A WIRE MESH SHOULD BE PLACED OVER THE DROP INLET OR CURB OPENING SO THAT THE ENTIRE OPENING AND A MINIMUM OF 12 INCHES AROUND THE OPENING ARE COVERED BY THE MESH. THE MESH MAY BE ORDINARY HARDWARE CLOTH OR WIRE MESH WITH OPENINGS UP TO 1/2 INCH.

DEPTH OF 12 INCHES.

BE REMOVED AND THE AREA REPAIRED AS SOON AS. THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN

ON-SITE INLET PROTECTION DETAIL NOT TO SCALE

WINTER STABILIZATION NOTES:

THROUGH MAY 15TH.

MAINTENANCE MEASURES SHOULD CONTINUE AS NEEDED THROUGHOUT CONSTRUCTION, INCLUDING THE OVER-WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHOULD CONDUCT AN INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUING FUNCTION. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON, THE CONTRACTOR SHOULD CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAIN THE CONDITION OF VEGETATION COVER, AND REPAIR ANY DAMAGE AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH). SPECIFICATIONS: TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE

1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO ONE ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. SUBJECT TO APPLICABLE REGULATIONS, THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF ACTIVITIES ARE CONDUCTED ACCORDING TO A WINTER CONSTRUCTION PLAN, DEVELOPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW HAMPSHIRE OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC.

FOLLOWING STABILIZATION TECHNIQUES SHOULD BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15TH

- 2. STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS: A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (SEE DESCRIPTION OF EROSION CONTROL MIX
- BERMS FOR MATERIAL SPECIFICATION). B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR
- 3. ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF
- 5. ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE 6 STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW
- AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHOULD BE DONE WITHIN 24 HOURS OF STOCKING, AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA.
- 7. FROZEN MATERIALS, (E.G., FROST LAYER THAT IS REMOVED DURING WINTER CONSTRUCTION), SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION THAT IS AWAY FROM ANY AREA NEEDING TO BE PROTECTED. STOCKPILES OF FROZEN MATERIAL CAN MELT IN THE SPRING AND BECOME UNWORKABLE AND DIFFICULT TO RANSPORT DUE TO THE HIGH MOISTURE CONTENT IN THE SOIL
- 8. INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.

9. ALL GRASS-LINED DITCHES AND CHANNELS SHOULD BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1.

- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER

 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHOULD BE STABILIZED TEMPORARILY WITH STONE
 OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY A
 QUALIFIED PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS ERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC. IF A STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
- 10. ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15
- 11 AFTER NOVEMBER 15 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 NHDO
- 12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

CONSTRUCTION SEQUENCE NOTES:

- 1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY ON-SITE CONSTRUCTION AS SHOWN, ADDITIONAL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL
- 2. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET.
- 3. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- 4. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO PREVENT EROSION.
- 5. CONSTRUCT PONDS, SWALES & LEVEL SPREADERS & STABILIZE PRIOR TO DIRECTING ANY RUNOFF TO THEM.
- 6. CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION. STABILIZE ROADS, PARKING LOTS AND CUT/FILL SLOPES WITHIN 72-HOURS OF ACHIEVING FINISH GRADES.
- 7. CONSTRUCT RELOCATED DRAINAGE LINE PRIOR TO REMOVING THE EXISTING DRAINAGE LINE AS SHOWN ON DEMOLITION PLAN AND CONNECT RELOCATED DRAINAGE LINE.
- 8. INSTALL UNDERGROUND UTILITIES AND DRAINAGE SYSTEM.
- 9. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED
- 10 DAILY OR AS REQUIRED CONSTRUCT INSPECT AND IF NECESSARY RECONSTRUCT TEMPORARY BERMS. DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING. AT A MINIMUM, INSPECT EROSION CONTROLS WEEKLY AND AFTER EVERY 1/2" OF RAINFALL.
- 11. BEGIN EXCAVATION FOR CONSTRUCTION OF BUILDINGS
- 12. FINISH PAVING ALL ROADWAYS AND DRIVEWAYS.
- 13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 14. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
- 15. APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

Limestone: 138 lbs./1,000 square feet. 13.8 lbs./1,000 SF straw mulch approximately 3 tons/acre unless erosion control matting is used Permanent Seed Mix lbs./acre Creeping Red Fescue Tall Fescue Redtop TOTAL 42 Temporary Seed Mix: lbs./acre Winter Rye (Aug. 15-Sept. 15)

Oats (No later than May 15)

- 16. NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE HAY MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 2 TONS PER ACRE
- 17. THE CONTRACTOR AND DEVELOPER MUST MANAGE THE PROJECT TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES

112

18. FUGITIVE DUST MUST BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

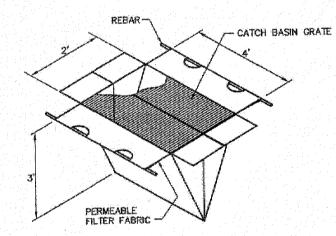
EROSION CONTROL NOTES:

- THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE NH STORMWATER MANUAL. VOLUME 3, EROSION & SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008.
- 2. 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. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AS APPROVED BY THE ENGINEER. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER
- 3. LIMIT OF MAXIMUM AREA OF EXPOSED SOIL AT ANY ONE TIME TO LESS THAN 5 ACRES. THE EXPOSED AREA THAT IS BEING ACTIVELY WORKED DURING WINTER IS TO BE LESS THAN 3 ACRES DURING THE WINTER SEASON.
- 4. ALL PERMANENT STORM WATER STRUCTURES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW INTO THEM. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED. B) A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED. C) A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RÍP-RAP HAS BEEN INSTALLED. D) OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 5. SILT FENCE SHALL BE INSTALLED AND MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT.
 WHERE POSSIBLE, NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER. SILT FENCE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 6. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISHED GRADED, WITH NO FURTHER CONSTRUCTION TO TAKE PLACE, SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS AFTER FINAL GRADING, A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. THE SEED MIX SHALL BE AS DESIGNATED BELOW.
- 7. 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. THE MAXIMUM LENGTH OF TIME FOR THE EXPOSURE OF DISTURBED SOILS SHALL BE 45 DAYS. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE
- 8. DURING GRADING OPERATIONS INSTALL HAY BALE BARRIERS ALONG TOE OF SLOPE OF FILL AREAS WHERE SHOWN. BARRIERS ARE TO BE MAINTAINED UNTIL DISTURBED AREAS ARE PAVED OR GRASSED.
- 9. THE FILL MATERIAL SHALL BE OF APPROVED SOIL TYPE FREE FROM STUMPS. ROOTS. WOOD, ETC. TO BE PLACED IN 12" LIFTS OR AS SPECIFIED. BULLDOZERS, TRUCKS, TRACTORS, OR ROLLERS MAY BE USED FOR COMPACTION BY ROUTING THE EQUIPMENT TO ALL AREAS OR EACH LAYER.
- 10. AVOID THE USE OF FUTURE OPEN SPACES (LOAM & SEED) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ROADS.

TEMPORARY EROSION

SHALL BE USED.

- 1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 2. HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3. BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY
- 4. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5. STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT ROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR
- 6. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED AND SEEDING AS SPECIFIED.
- 7. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION
- CONTROL MEASURES ARE TO BE REMOVED. 8. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 9. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
- 10. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 11. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER
- 12. JUTE MATTING OR APPROVED EQUIVALENT SHALL BE PROVIDED ON ALL SLOPES GREATER THAN 3:1.



SILTATION BAG NOT TO SCALE USE "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC.

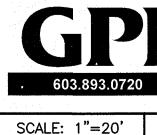
INLET PROTECTION DETAIL

DATE DESCRIPTION BY REVISIONS

DETAIL SHEET

ASSESSORS MAP 252 - LOTS 4,5 & 9 1400 LAFAYETTE ROAD PORTSMOUTH, NEW HAMPSHIRE PREPARED FOR: 4 AMIGOS, LLC

321 LAFAYETTE ROAD UNIT D HAMPTON, NEW HAMPSHIRE 03842



FRANK

MONTEIRO

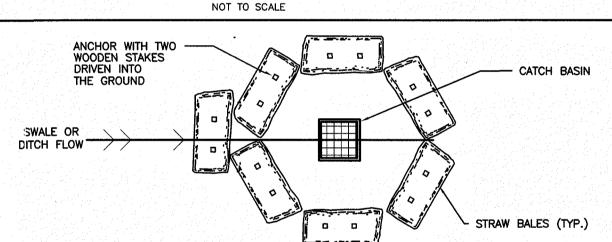
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YCENSE!

Greenman-Pedersen, Inc. 44 Stiles Road Construction Management Suite One

Salem, NH 03079 GPINET.COM DRAWING NO. 4582DET.DWG

DATE: DRAWN BY: CHECKED BY: PROJECT NO. SHEET NO. 15 OF 15 458219 CPS CMT



2) THE WIRE MESH SHOULD BE COVERED WITH CLEAN COARSE AGGREGATE SUCH AS SEWER STONE FOR A MINIMUM

3) THE COARSE AGGREGATE SHOULD EXTEND AT LEAST 18 INCHES ON ALL SIDES OF THE DRAIN OPENING. MAINTENANCE: ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE PENOVED FROM THE TRADESIAN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA



LOCATION MAP (NOT TO SCALE)

CMT 2/20/20 MISC. REVISIONS PER TAC BY DATE DESCRIPTION REVISIONS

SEWER PLAN/PROFILE

ASSESSORS MAP 252 - LOTS 4,5 & 9
1400 LAFAYETTE ROAD
PORTSMOUTH, NEW HAMPSHIRE PREPARED FOR:

4 AMIGOS, LLC

321 LAFAYETTE ROAD UNIT D
HAMPTON, NEW HAMPSHIRE 03842

603.893.0720

GPINET.COM

Greenman-Pedersen, Inc. 44 Stiles Road Construction Management Suite One

Salem, NH 03079

DRAWING NO. 4582SP.DWG DATE: JANUARY 20, 2020 SCALE: 1"=30' SHEET NO. DRAWN BY: CHECKED BY: PROJECT NO. 1 OF 1 CMT 458219 CCC

PROFILE
SCALE: 1"=30'H/3'V

2+50

GRAPHIC SCALE (IN FEET) 1 inch = 30 ft.

2+00

1+50

1+00

0+50

0+00

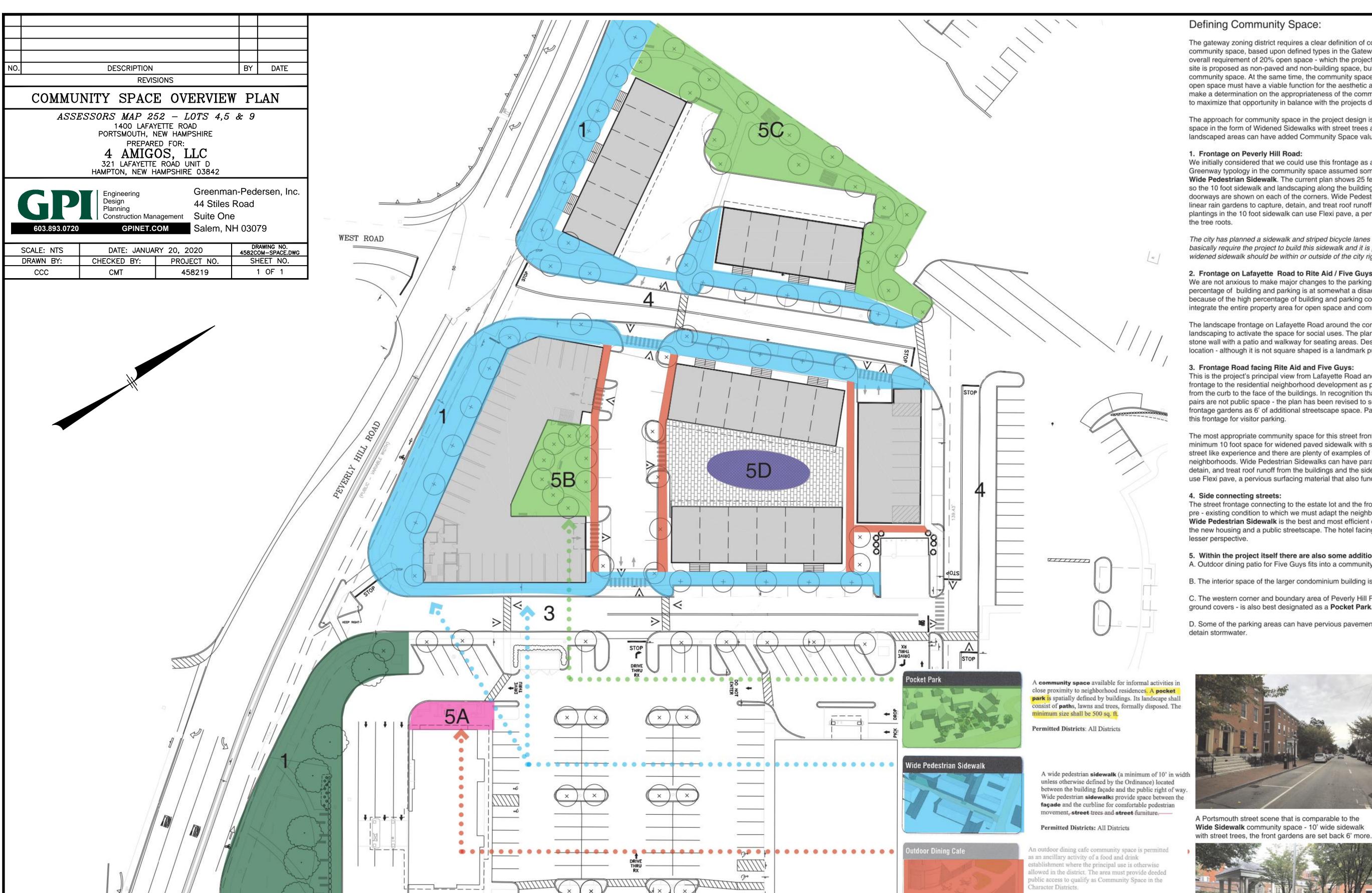
OWNER OF RECORD: MAP 252 LOTS 4, 5 & 9
4 AMIGOS LLC
321 LAFAYETTE ROAD, UNIT D
HAMPTON, NH 03842 FRANK C. MONTEIRO No. 7152

4+50

4+00

3+50

3+00



Defining Community Space:

The gateway zoning district requires a clear definition of community space area as well as the typology of community space, based upon defined types in the Gateway Zoning District in the project's design. There is an overall requirement of 20% open space - which the project complies with a recent calculation at 21.3% of the total site is proposed as non-paved and non-building space, but there is not an actual numerical value required for community space. At the same time, the community space requirements mandates an acceptable percentage of open space must have a viable function for the aesthetic and social life of the project. The Planning process will make a determination on the appropriateness of the community space, but the objective of the projects design is to maximize that opportunity in balance with the projects density and development pattern.

The approach for community space in the project design is first to make all public street frontages community space in the form of Widened Sidewalks with street trees and sidewalk amenities and street furniture. Additional landscaped areas can have added Community Space values in smaller discrete locales.

1. Frontage on Peverly Hill Road:

We initially considered that we could use this frontage as a Greenway designation, but we perceived that the Greenway typology in the community space assumed something greater in width. Therefore we have used the Wide Pedestrian Sidewalk. The current plan shows 25 feet from the right of way to the face of the building, so the 10 foot sidewalk and landscaping along the building more than adequately fits. Entrances to the building doorways are shown on each of the corners. Wide Pedestrian Sidewalks can have parallel garden spaces as linear rain gardens to capture, detain, and treat roof runoff from the buildings and the sidewalks. Street tree plantings in the 10 foot sidewalk can use Flexi pave, a pervious surfacing material that also functions to protect

The city has planned a sidewalk and striped bicycle lanes along this whole frontage. It's assumed that the city will basically require the project to build this sidewalk and it is proposed to be done at 10'. There are questions if the widened sidewalk should be within or outside of the city right of way.

2. Frontage on Lafayette Road to Rite Aid / Five Guys and Newburyport Bank property:

We are not anxious to make major changes to the parking areas because of lease requirements for Rite Aid. The percentage of building and parking is at somewhat a disadvantage except for the frontage along Lafayette Road because of the high percentage of building and parking coverage and the layout. Nevertheless, the project must integrate the entire property area for open space and community space.

The landscape frontage on Lafayette Road around the corner onto Peverly Hill Road has opportunities for landscaping to activate the space for social uses. The plan shows the corner area incorporating the attractive stone wall with a patio and walkway for seating areas. Designated as a Square the prominent street frontage location - although it is not square shaped is a landmark public space location.

3. Frontage Road facing Rite Aid and Five Guys:

This is the project's principal view from Lafayette Road and represents the transition from the commercial frontage to the residential neighborhood development as proposed. The previous project layout had 10 feet from the curb to the face of the buildings. In recognition that the entrance stairs for each of the townhouse unit pairs are not public space - the plan has been revised to set the bottom stair at the 10' edge, and to position the frontage gardens as 6' of additional streetscape space. Parallel on - street parking has also been located along this frontage for visitor parking.

The most appropriate community space for this street frontage is the Wide Pedestrian Sidewalk. That requires a minimum 10 foot space for widened paved sidewalk with street trees and street furniture. It's kind of a downtown street like experience and there are plenty of examples of this scale and character throughout the city in attractive neighborhoods. Wide Pedestrian Sidewalks can have parallel garden spaces as linear rain gardens to capture, detain, and treat roof runoff from the buildings and the sidewalks. Street tree plantings in the 10 foot sidewalk can use Flexi pave, a pervious surfacing material that also functions to protect the tree roots.

4. Side connecting streets:

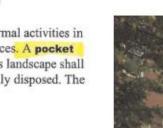
The street frontage connecting to the estate lot and the frontage to the hotel have a similar condition of being a pre - existing condition to which we must adapt the neighborhood design. On the Estate frontage the use of the Wide Pedestrian Sidewalk is the best and most efficient community space because it is the front door to all the new housing and a public streetscape. The hotel facing directional only has room for a 5' widewalk but it is a

Within the project itself there are also some additional community spaces: A. Outdoor dining patio for Five Guys fits into a community space category of Outdoor Dining cafe.

B. The interior space of the larger condominium building is a Pocket Park due to its building enclosure

C. The western corner and boundary area of Peverly Hill Road is a natural woodland area of native trees and ground covers - is also best designated as a Pocket Park.

D. Some of the parking areas can have pervious pavements so that they look more like a plaza and function to detain stormwater.

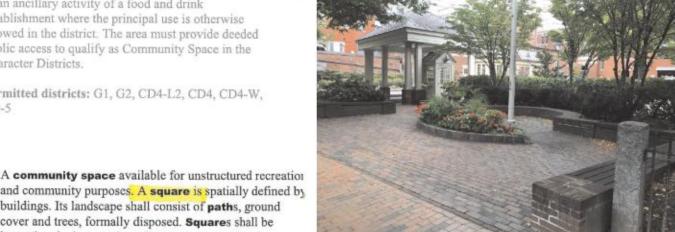


Permitted districts: G1, G2, CD4-L2, CD4, CD4-W,

buildings. Its landscape shall consist of paths, ground cover and trees, formally disposed. Squares shall be located at the intersection of important streets. The

ninimum size shall be 1/8 acre.

Permitted Districts: All Districts





Cross - block walkways offer pedestrian connectivity and can have attractive gardens.



Outdoor cafe space in Portsmouth.

Portsmouth Pocket Park

LAFAYETTE ROAD

200

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
	20	2MB	SINGLE	0.990	5348	70	ARE-EDR-2MB-R3-04-E-UL-xx-525-40K

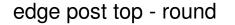
Calculation Summary (Footcandles calculated using predicted lumen values @ 50K hrs of operation)						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
All Calc Points	Fc	0.60	3.9	0.0	N.A.	N.A.
Building A Walkway	Fc	0.63	2.2	0.0	N.A.	N.A.
Buildings B, C, & D Walkway	Fc	0.97	2.2	0.2	4.85	11.00
Buildings E & F Walkway	Fc	0.60	3.0	0.0	N.A.	N.A.

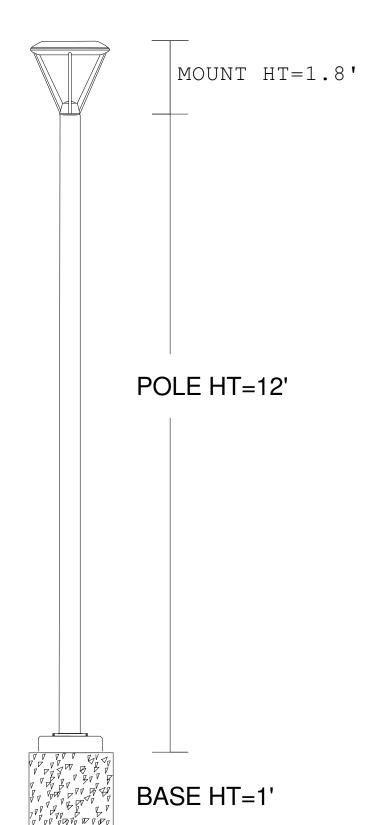
Pole Schedule (20) SRS-5-11-12-SW-BS-OT-N-xx (12' X 5" X 11ga STEEL ROUND POLE) Proposed poles meet 140 MPH sustained winds.

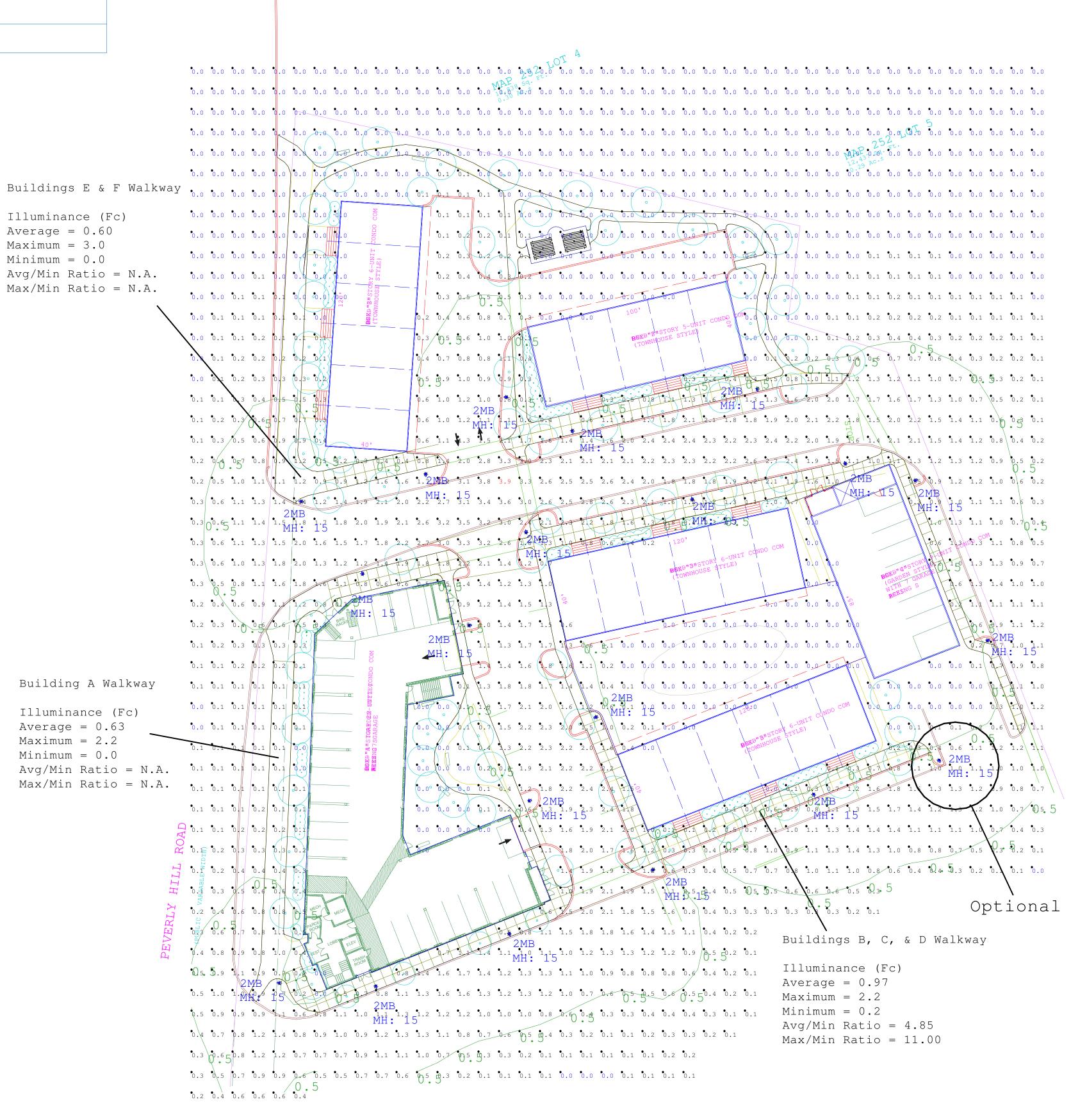
Additional Equipment:

(20) PB-1R5.00 - Single (Adapter Tenon connector)

*** CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER ***







9201 Washington Ave, Racine, WI 53406 https://creelighting.com - (800) 236-6800

lighting, or energy code.

Filename: 200113RW1BAF.AGI

Layout By:

Date:1/16/2020





Michael J. Keane Architects, PLLC

ARCHITECTURE
PLANNING
DESIGN
101 Kent Place

Newmarket, NH 03857

603-292-1400 mjkarchitects.com

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CONSULTANTS

WEST ELEVATION
SCALE: 1" = 10'-0"

NORTH ELEVATION
SCALE: 1" = 10'-0"



EAST ELEVATION
SCALE: 1" = 10'-0"



EAST ELEVATION DIMENSIONED
SCALE: 1" = 10'-0"

FACADE MODULATION WHERE REQUIRED IS PROPOSED TO BE ACHIEVED BY MATERIAL CHANGES ROOF, DORMERS AND FENESTRATION VARIATIONS

 SOUTH SIDE FIRST FLOOR FACADE OPENINGS

 SOUTH SIDE FIRST FLOOR 1
 273.13 S.F.
 149.00 S.F.
 50.4 %

 SOUTH SIDE FIRST FLOOR 2
 1,657.50 S.F.
 433.0 S.F.
 26.0 %

 273.13 S.F.
 0 S.F.
 0 %

 GROSS SOUTH SIDE FIRST FLOOR FACADE OPENINGS
 1,930.62 S.F.
 582 S.F.
 30.1 %



SOUTH ELEVATION
SCALE: 1" = 10'-0"

APPROVALS

CONCEPT NOT FOR CONSTRUCTION 1/19/2020

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PROJECT

MAP 252-LOTS 4, 5 &9
140 LAFAYETTE ROAD PORTS/MOUTH NH

FOR

4 AMIGOS,LLC
321 LAFAYETTE ROAD HAMPTON, NH 03842,

TITLE

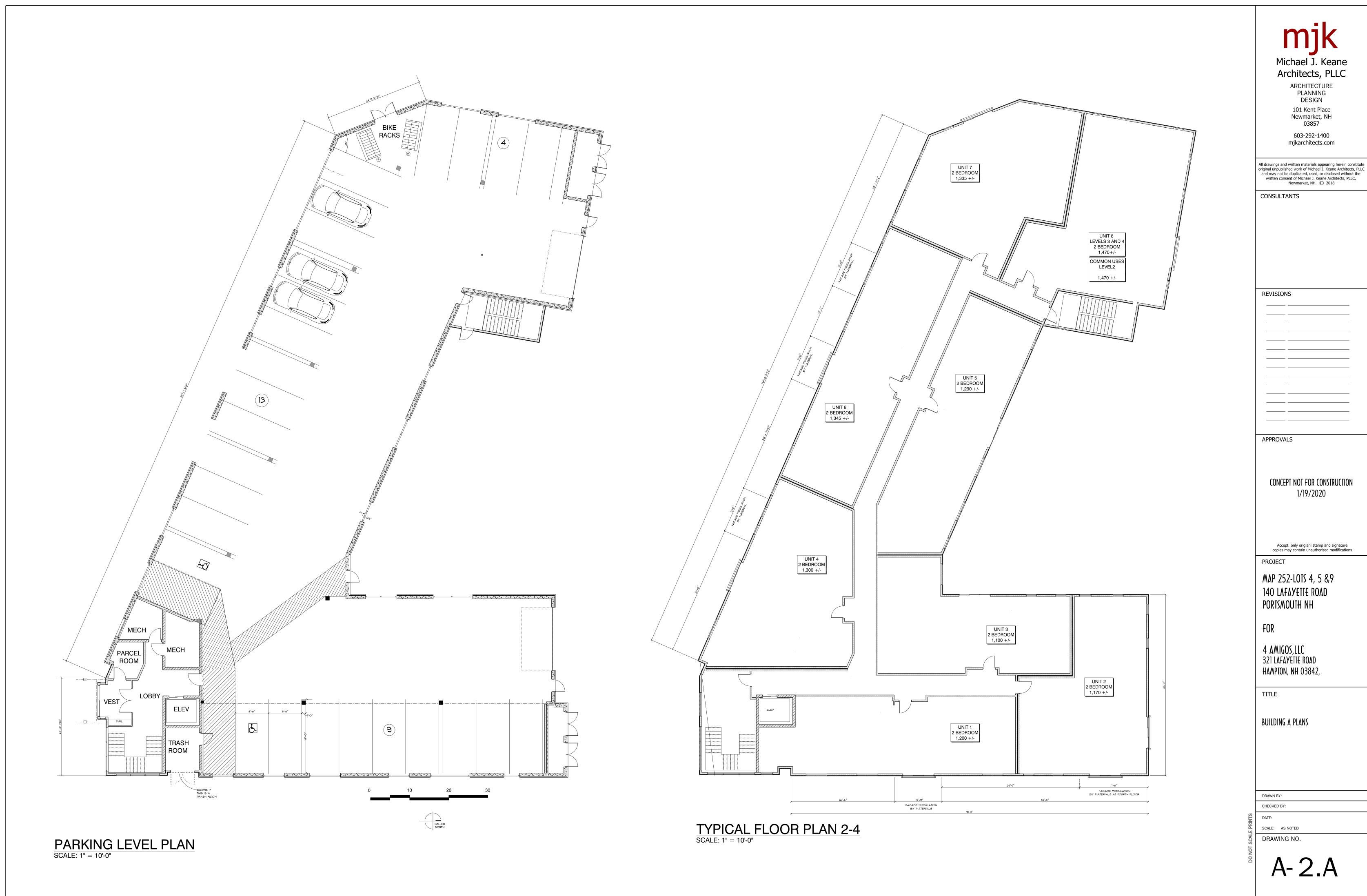
BUILDING A ELEVATIONS

GPI PROJECT NO. 458219 SHEET 1 OF 1

CHECKED BY:

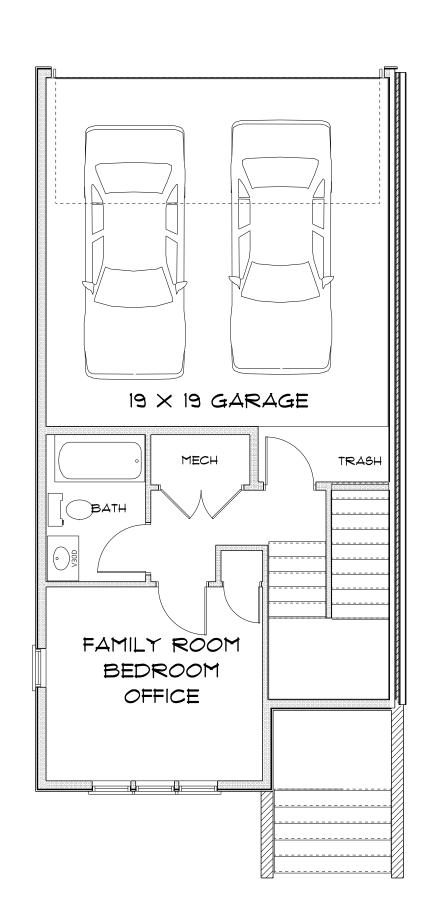
DRAWING NO.

DATE:

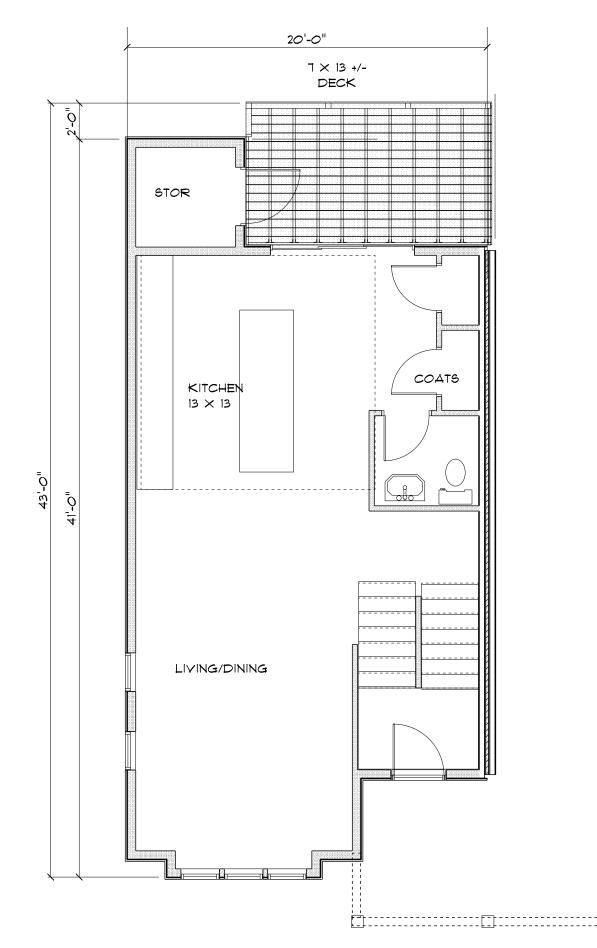




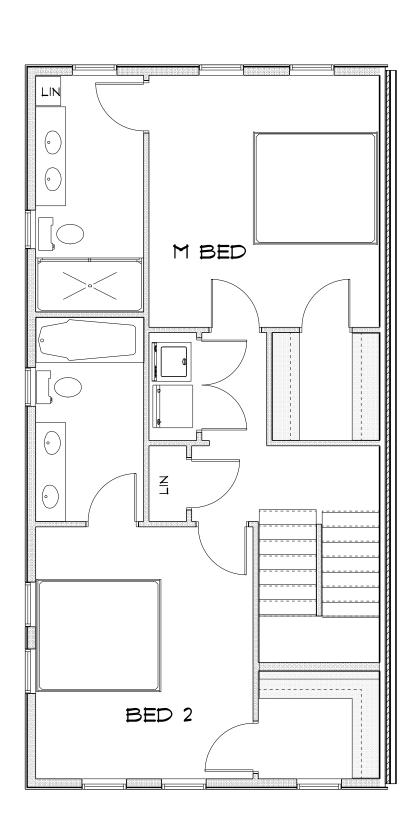




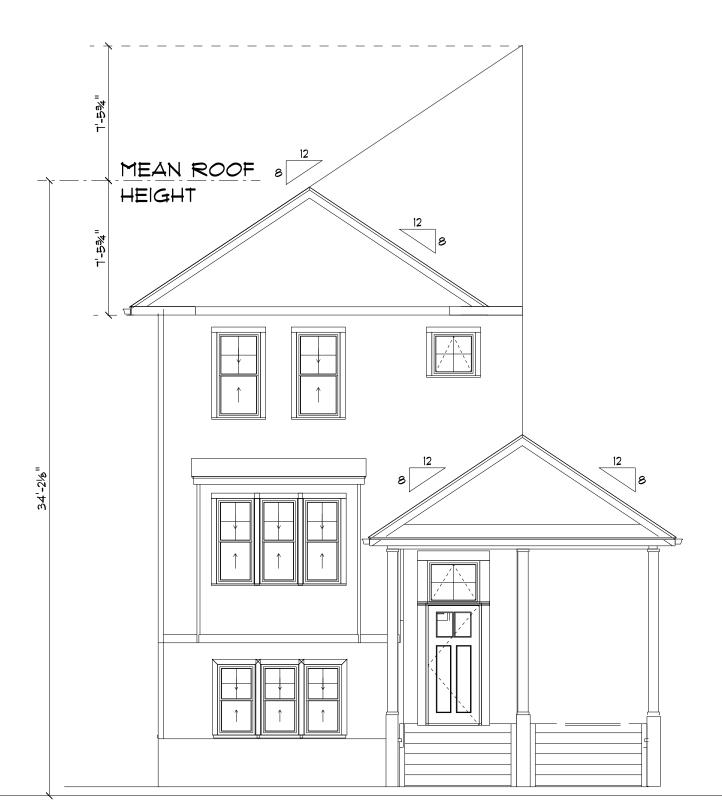




TYPICAL SECOND FLOOR PLAN SCALE: 3/16" = 1'-0"



TYPICAL THIRD FLOOR PLAN
SCALE: 3/16" = 1'-0"



ASSUMED AVERAGE GRADE TO BE VERIFIED FACADE MODULATION WHERE REQUIRED IS PROPOSED TO BE ACHIEVED BY MATERIAL CHANGES ROOF, DORMERS AND FENESTRATION VARIATIONS

FRONT ELEVATION DIMENSION
SCALE: 3/16" = 1'-0"

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Newmarket, NH

03857 603-292-1400

mjkarchitects.com

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APPROVA	N C				
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PROJECT

MAP 252- LOTS 4,5 &9

1400 LAFAYETTE ROAD
PORTSMOUTH NH

FOR

4 AMIGOS, LLC
321 LAFAYETTE ROAD

321 LAFAYÉTTE ROAD HAMPTON NH 03842,

TITLE

BUILDING B TYPICAL UNIT

SCALE PRINTS	DRAWN BY:						
	CHECKED BY:						
	DATE:						
	SCALE: AS NOTED						
	DRAWING NO.						

A-1.B



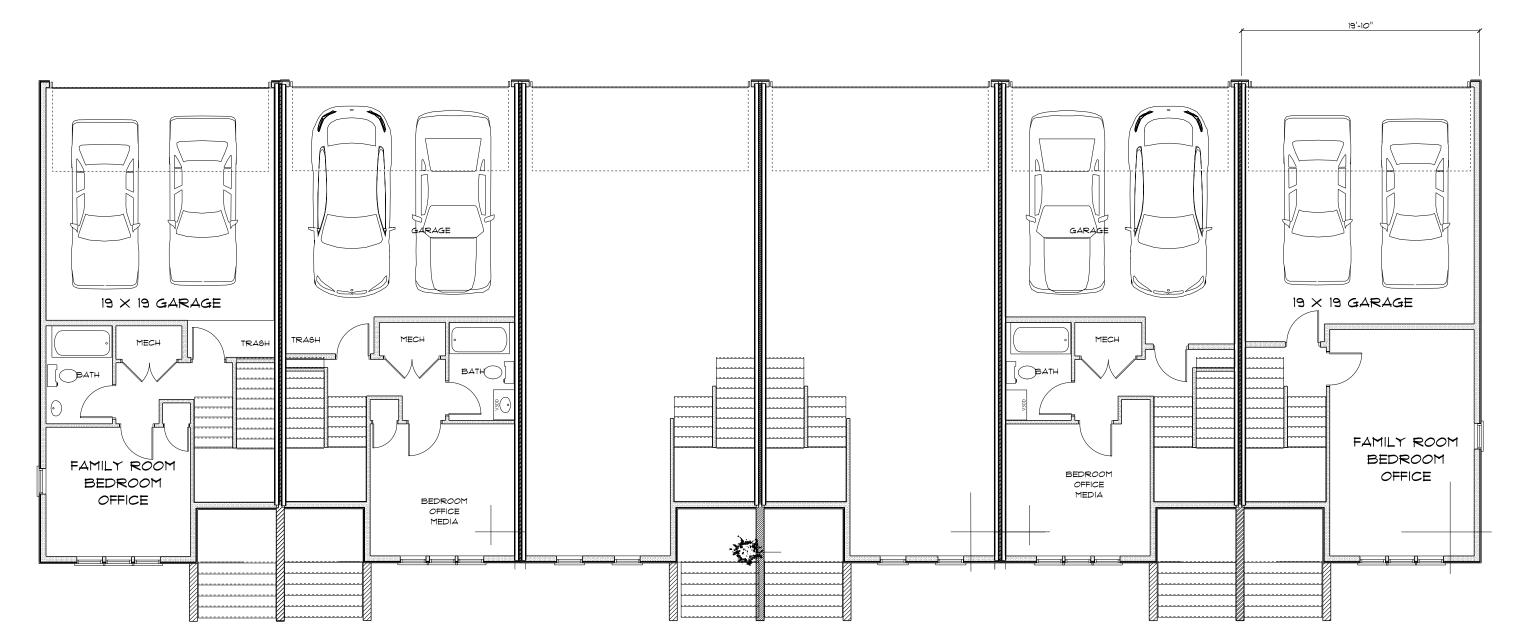
REAR ELEVATION
SCALE: 1/8" = 1'-0"



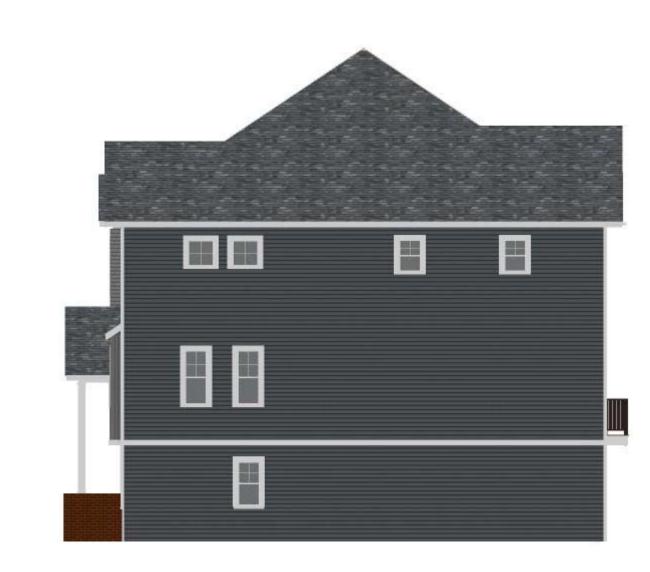
LEFT ELEVATION
SCALE: 1/8" = 1'-0"



FRONT ELEVATION
SCALE: 1/8" = 1'-0"



GARAGE LEVEL PLAN
SCALE: 1/8" = 1'-0"



RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

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1/19/2020

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PROJECT

APPROVALS

MAP 252- LOTS 4,5 &9 1400 LAFAYETTE ROAD PORTSMOUTH NH

FOR

4 AMIGOS, LLC 321 LAFAYETTE ROAD HAMPTON NH 03842,

TITLE

BUILDING B PLANS AND ELEV

DRAWN BY:

CHECKED BY:

DATE:

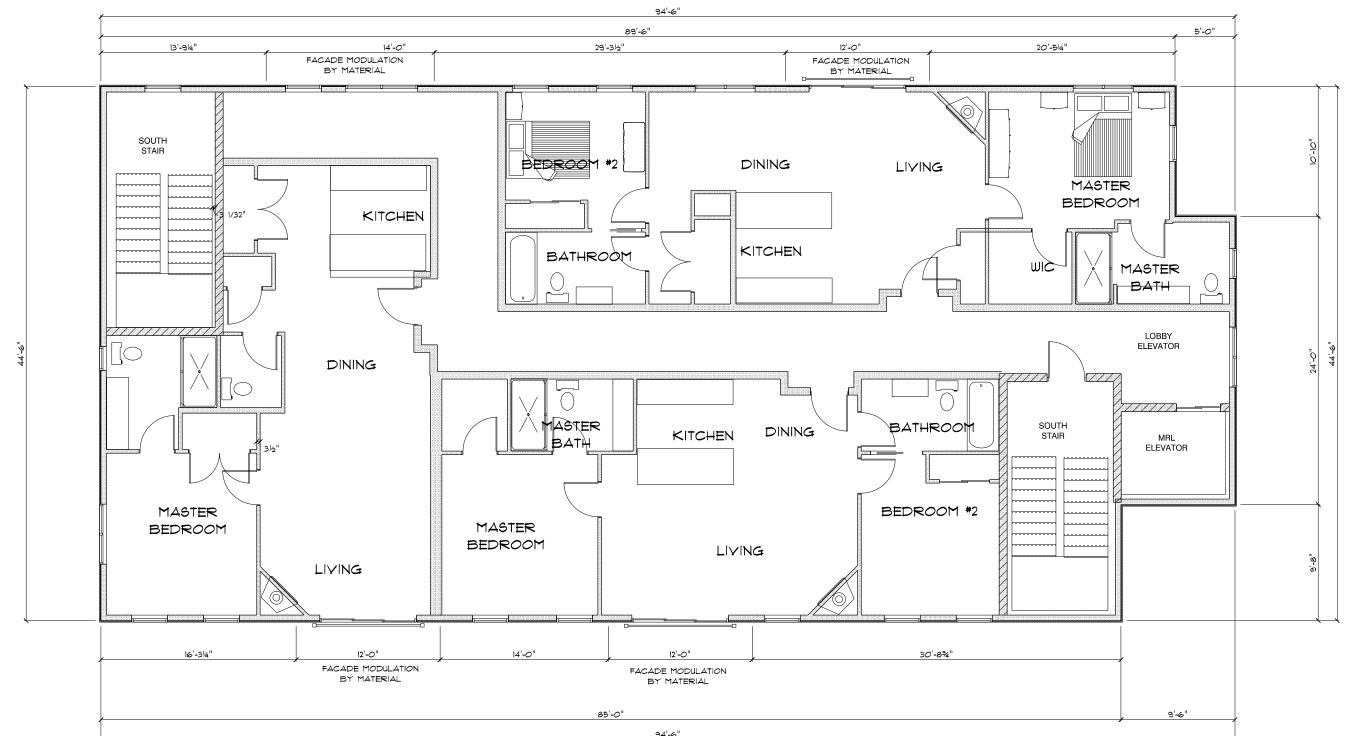
SCALE: AS NOTED

DRAWING NO.

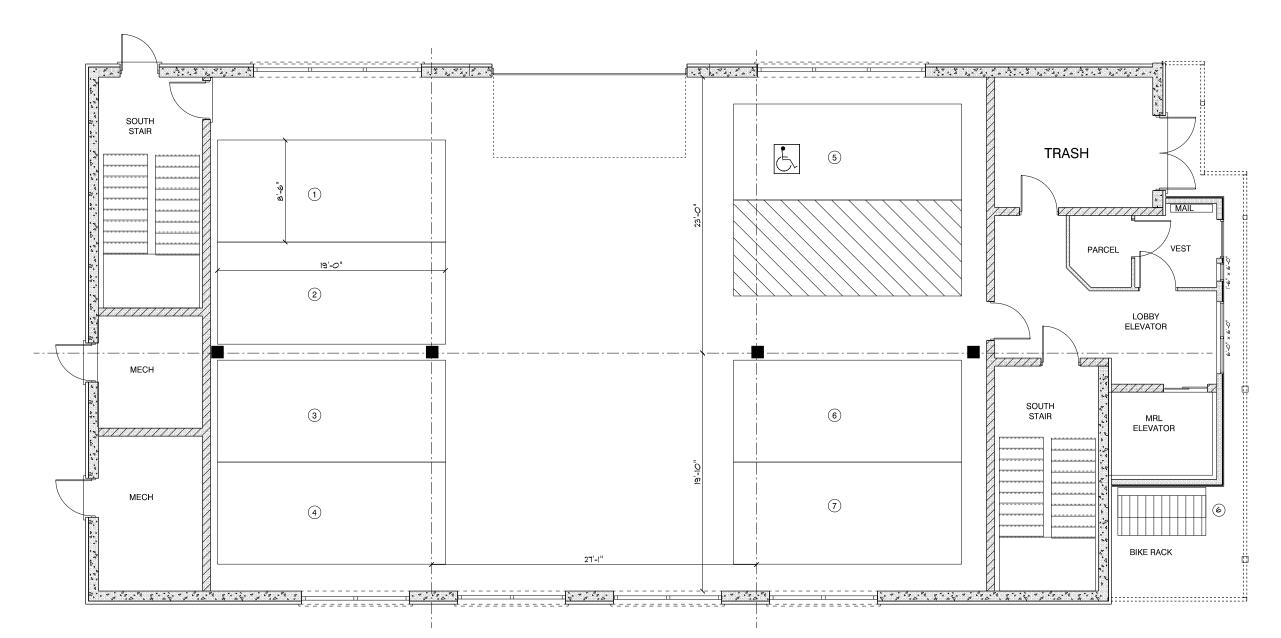
A-2.B



NORTH ELEVATION SCALE: 1/8" = 1'-0"



TYPICAL SECOND AND THIRD FLOOR PLAN SCALE: 1/8" = 1'-0"



CONCEPT PARKING LEVEL PLAN
SCALE: 1/8" = 1'-0"

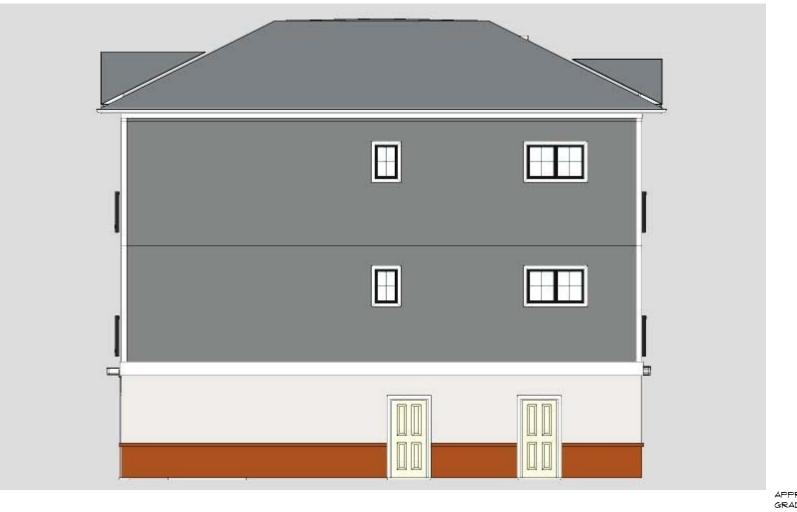


WEST ELEVATION

SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



EAST ELEVATION
SCALE: 1/8" = 1'-0"



FACADE MODULATION WHERE REQUIRED IS

PROPOSED TO BE ACHIEVED BY MATERIAL CHANGES ROOF, DORMERS AND FENESTRATION VARIATIONS

CONCEPT SECTION

SCALE: 1/8" = 1'-0"

Michael J. Keane Architects, PLLC

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PROJECT

MAP 252-LOTS 4, 5 &9
140 LAFAYETTE ROAD
PORTSMOUTH NH

FOR

4 AMIGOS,LLC 321 LAFAYETTE ROAD HAMPTON, NH 03842,

TITLE

BUILDING C CONCEPT PLANS

DRAWN BY: CHECKED BY:

DATE:

SCALE: AS NOTED

DRAWING NO.

A-1.C







Michael J. Keane Architects, PLLC

ARCHITECTURE PLANNING DESIGN 101 Kent Place Newmarket, NH 03857

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PROJECT

MAP 252-LOTS 4, 5 &9 140 LAFAYETTE ROAD PORTSMOUTH NH

FOR

4 AMIGOS,LLC 321 LAFAYETTE ROAD HAMPTON, NH 03842,

TITLE

BUILDING C RENDER CONCEPTS

CHECKED BY:

SCALE: AS NOTED DRAWING NO.