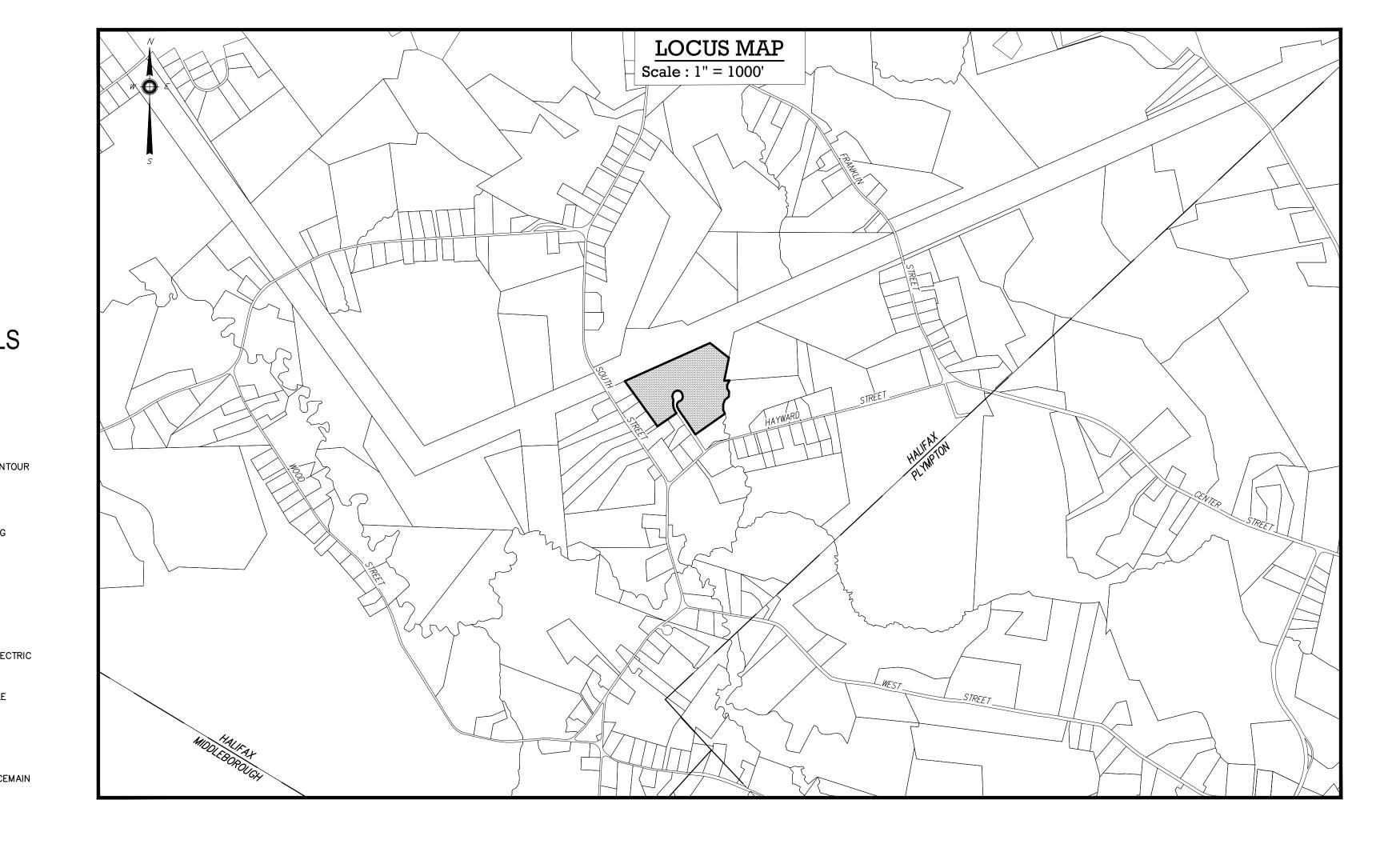
"BROOKSIDE FARM" MULTIFAMILY DEVELOPMENT HALIFAX, MASSACHUSETTS

11/20/20

PAGE	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	LAYOUT PLAN
4	GRADING & DRAINAGE PLAN
5	UTILITY PLAN
6	CONSTRUCTION NOTES & DETAILS



EXISTING		PROPOSED	
	MINOR CONTOUR	100	MAJOR/MINOR CONT
	MAJOR CONTOUR	99.99	SPOT ELEVATION
100x1	SPOT ELEVATION		LIMIT OF WORK/
₩ 1 #1	TEST PITS	~~~~~~	EDGE OF CLEARING
~~~~~~~	EDGE OF CLEARING	xx	SILT FENCE
w w	WATER SERVICE	ww	WATER SERVICE
₩v	WATER GATE	₩v	WATER GATE
X	HYDRANT	"	HYDRANT
	UTILITY POLE	Q	UTILITY POLE
—— онw ——— онw ——	OVERHEAD WIRES	ЕЕ	UNDERGROUND ELEC
D	DRAIN LINE		TRANSFORMER
0	DRAIN MANHOLE	E	ELECTRIC MANHOLE
<b>III</b>	CATCH BASIN	DD	DRAIN LINE
ss	SEWER MAIN		DRAIN MANHOLE
			CATCH BASIN
		—— FM ——— FM ——	SEWER MAIN FORCEM
			12" CAPE COD BERM



## OWNER / APPLICANT:

8 HILDA LANE REALTY TRUST

## CIVIL ENGINEER / LAND SURVEYOR:



49 HERRING POND ROAD 19 OLD SOUTH ROAD 905 SOUTH MAIN ST, SUITE 204 BUZZARDS BAY, MA 02532 NANTUCKET, MA 02554 MANSFIELD, MA 02048

(Fax) 508.833.2282

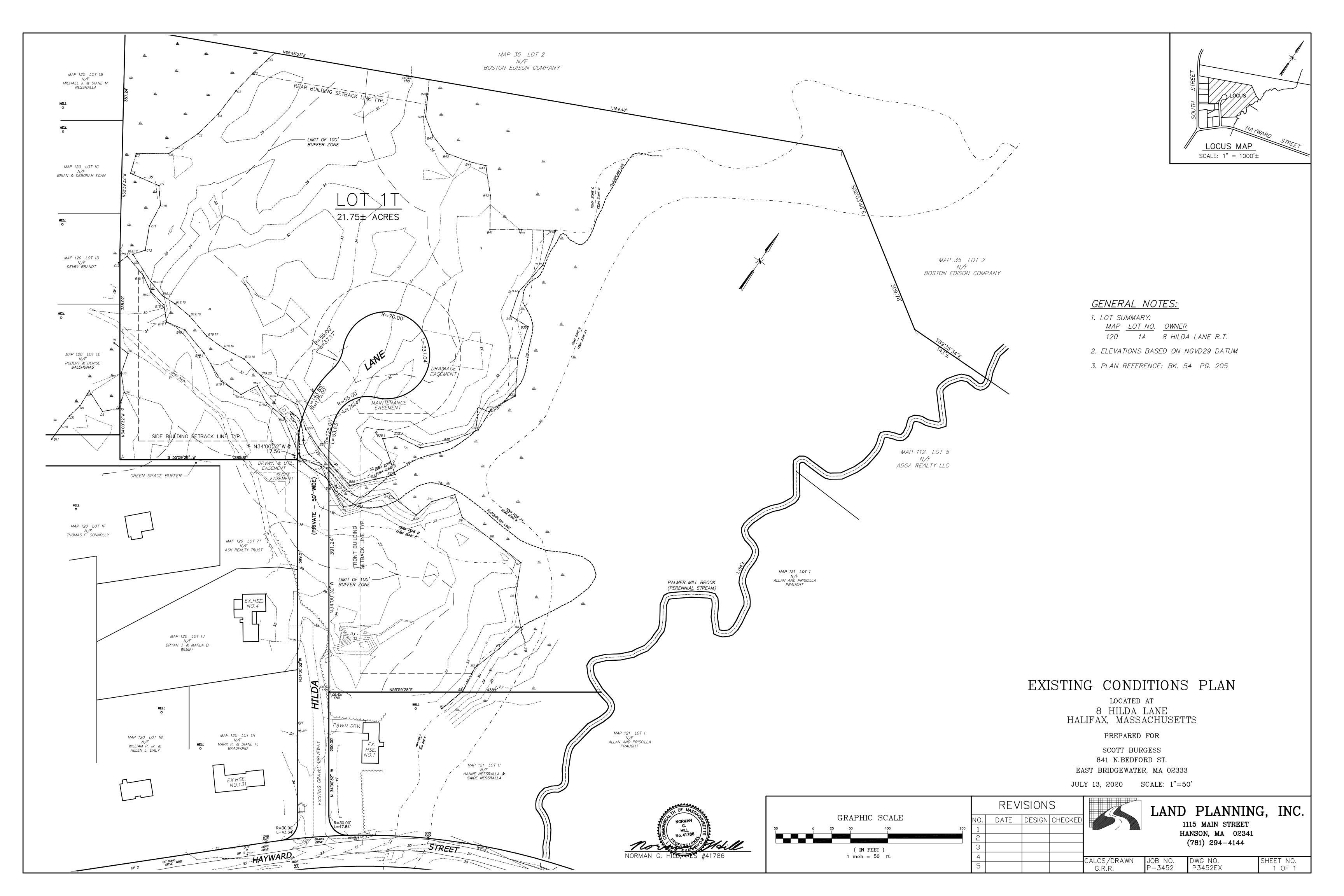
www.brackeneng.com

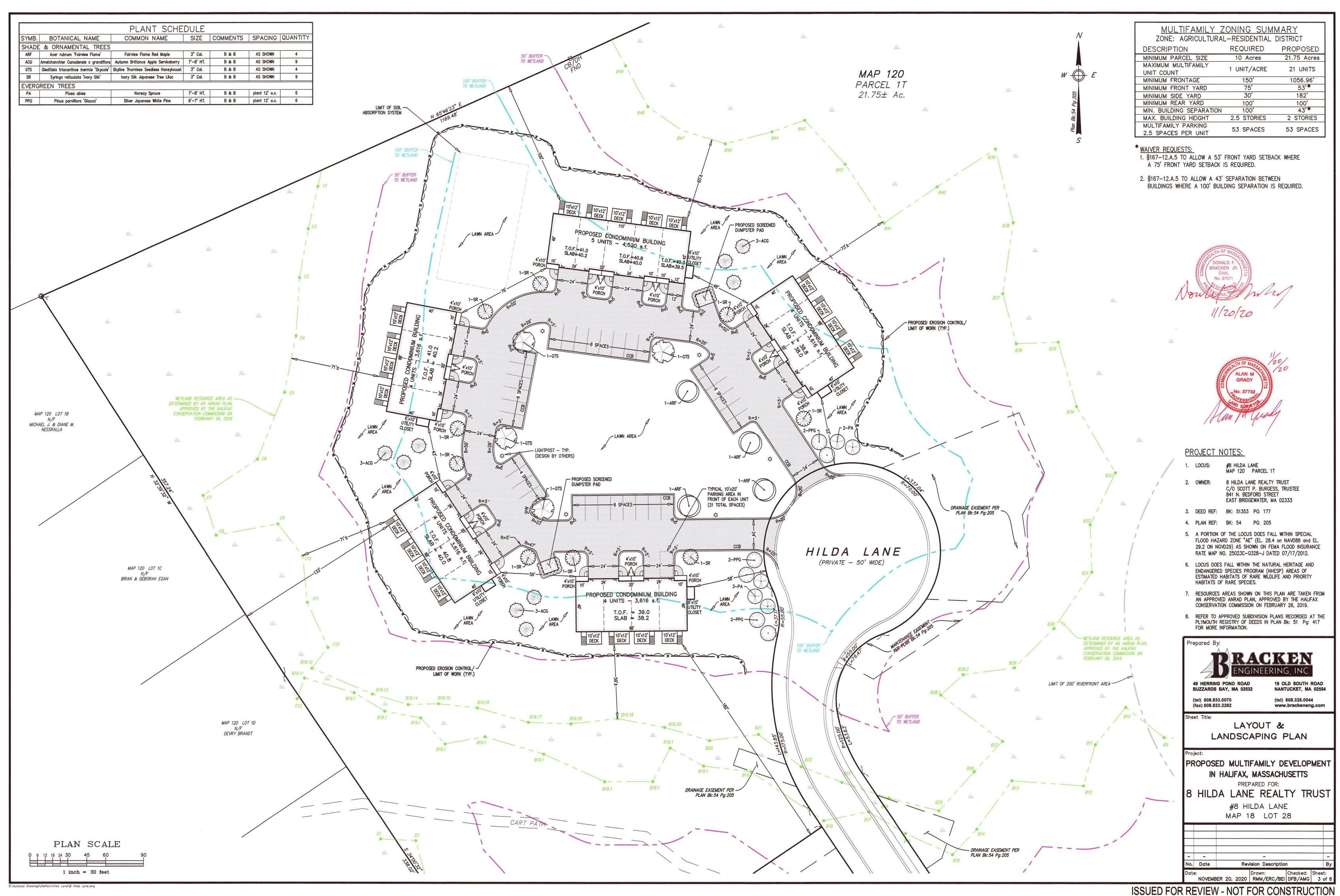
# **EXISTING CONDITIONS PREPARED BY:**

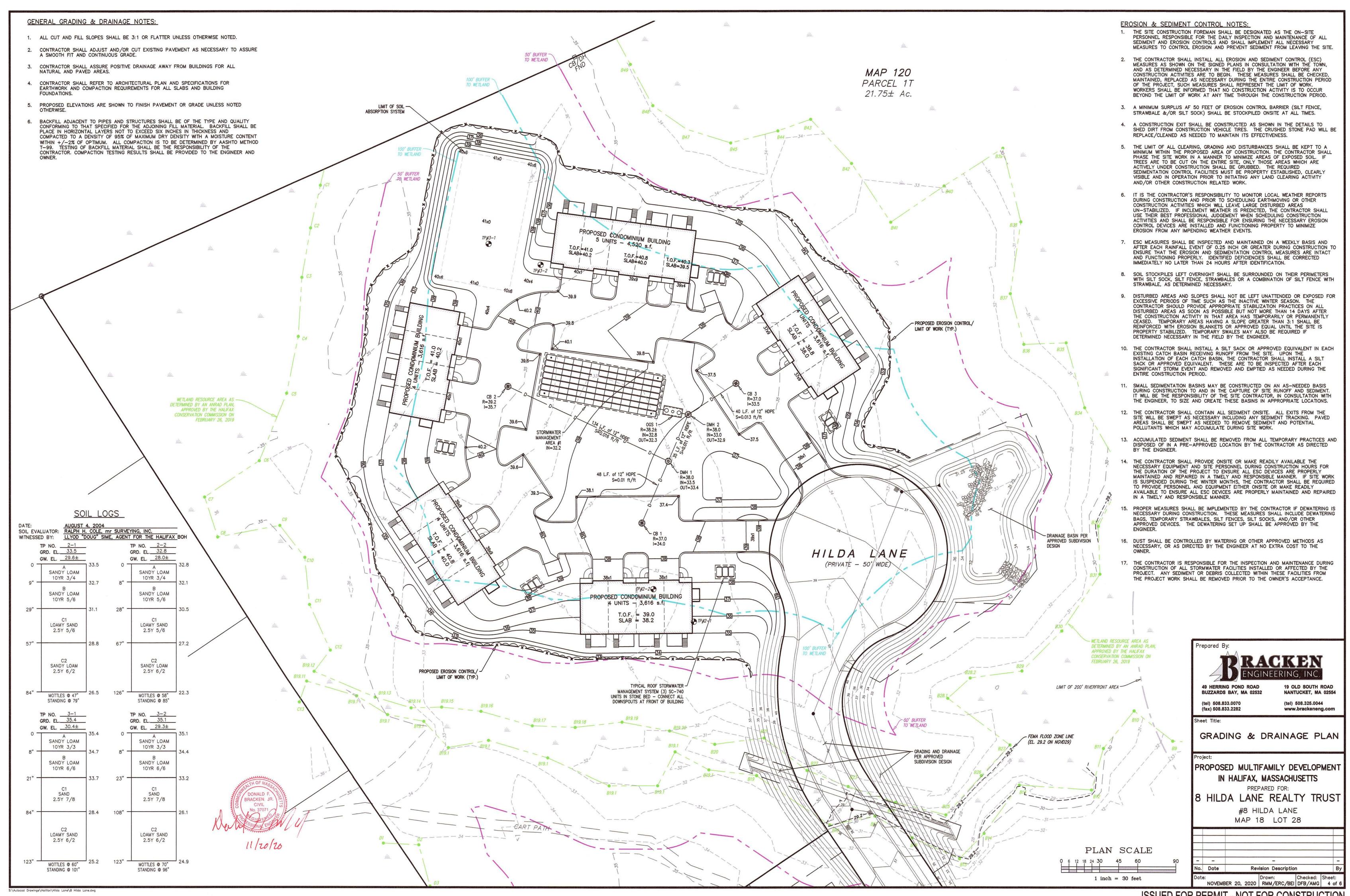


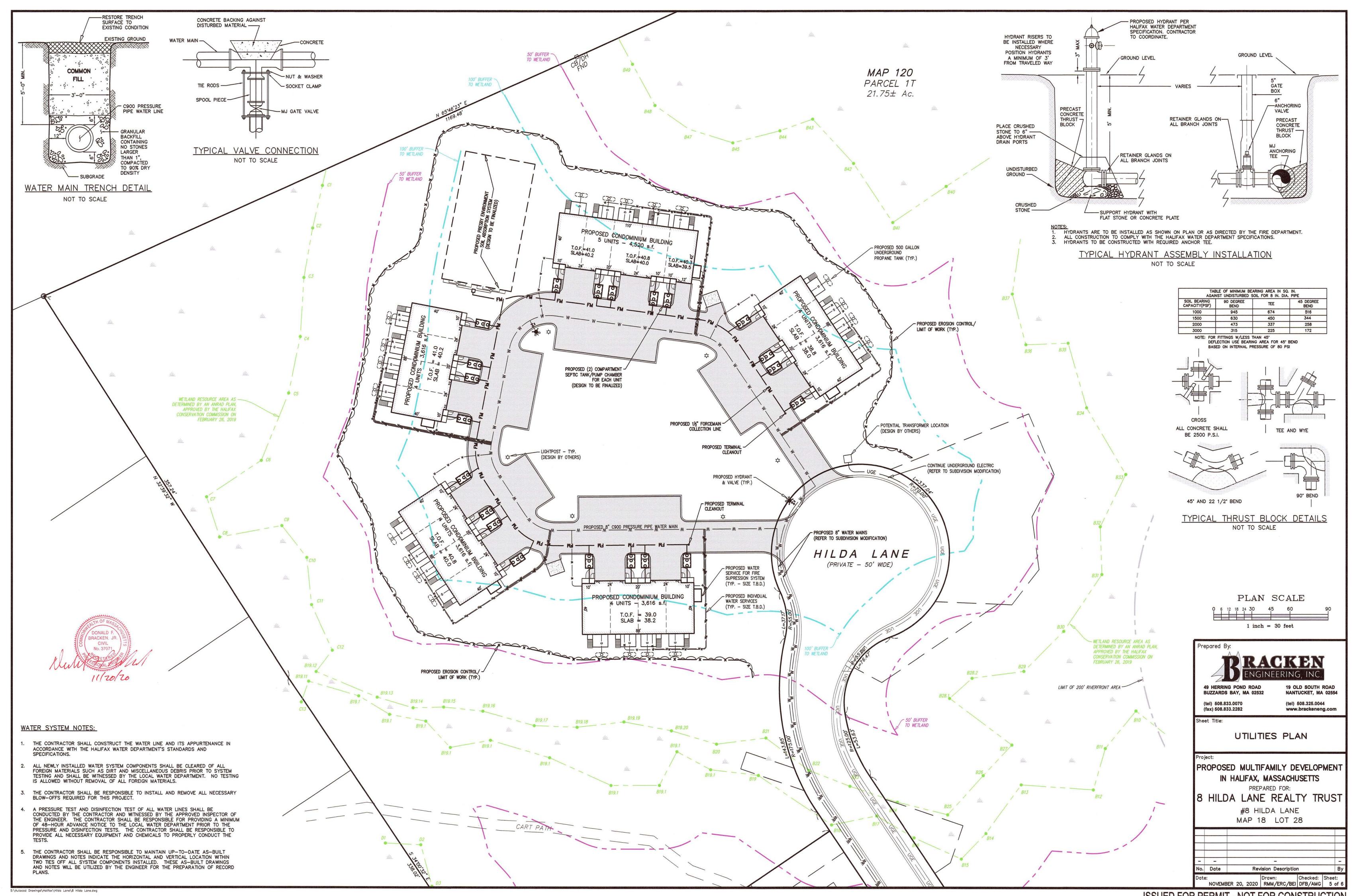
LAND PLANNING, INC.

1115 MAIN STREET HANSON, MA 02341 (781) 294-4144









#### **GENERAL CONSTRUCTION NOTES:**

- ALL NECESSARY POLICE DETAIL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOW EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLING ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOW ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD LOCATED UTILITIES AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING UTILITIES IN WORKING ORDER, INCLUDING THE SEPTIC SYSTEM, AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. ALL COST RELATED TO THE REPAIR OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL, AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS, INCLUDING BARRICADES, SAFETY LIGHTING, CONES, POLICE DETAIL AND/OR FLAG MEN AS DETERMINED NECESSARY BY THE ENGINEER AND/OR TOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF POLICE DETAIL AND FOR COORDINATING WITH THE LOCAL OR STATE POLICE DEPARTMENT FOR ALL REQUIRED POLICE DETAIL.
- ALL TRENCHING WORK WITHIN A ROADWAY SHALL BE COORDINATED WITH THE PROPER LOCAL & STATE AGENCY. TRENCH SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING ANY LOCAL AND/OR STATE PERMITS REQUIRED FOR THE TRENCH WORK. THIS WORK MAY BE REQUIRED TO TAKE PLACE OUTSIDE OF NORMAL HOURS OF OPERATION FOR THE FACILITY, THE CONTRACTOR SHALL PLAN ACCORDINGLY.
- THE CONTRACTOR SHALL MAKE ALL CONNECTION ARRANGEMENTS WITH UTILITY COMPANIES, AS REQUIRED.
- ALL IMPORTED MATERIAL, IF REQUIRED, SHALL BE CLEAN. NO MATERIAL WILL BE ACCEPTED FROM AN EXISTING OR FORMER 21E SITE AS DEFINED BY THE MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40,0000
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS SHALL BE COORDINATED WITH THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL GRADE STAKES SET BY THE SURVEYOR. GRADE STAKES SHALL REMAIN UNTIL A FINAL INSPECTION OF THE ITEM HAS BEEN COMPLETED BY THE ENGINEER. ANY RE-STAKING OF PREVIOUSLY SURVEYED SITE FEATURES SHALL BE THE RESPONSIBILITY (INCLUDING COSTS) OF THE CONTRACTOR.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS AND DETAILS/SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (THE MASSACHUSETTS HIGHWAY DEPARTMENT 1988 STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES, THE 2002 SUPPLEMENTAL SPECIFICATIONS AND THE 2006 SPECIAL PROVISIONS).
- 13. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS
- SOLID WASTES SHALL BE COLLECTED AND STORED IN A SECURED DUMPSTER. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS.
- THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, OTHER LANDSCAPING, AND/OR NATURAL FEATURES. WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPE FEATURES, EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.
- 16. ALL UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 6-INCHES OF LOAM INSTALLED AND BE SEEDED WITH GRASS SEED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAM AND SEEDED AREAS UNTIL LAWN GROWTH IS ESTABLISHED AND APPROVED BY THE ENGINEER AND/OR OWNER.
- ALL PROPOSED STRUCTURES SHALL BE DESIGNED BY THEIR MANUFACTURERS FOR AASHTO H-20 LOADING, PRECAST CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED
- ALL WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 521 CMR 5.00 ARCHITECTURAL ACCESS BOARD REQUIREMENTS. CONTRACTOR IS TO REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAILED INFORMATION.
- LEDGE OR BOULDER EXCAVATION IS NOT ANTICIPATED FOR THIS SITE. HOWEVER, THE CONTRACTOR SHALL PROVIDE A UNIT PRICE COST IN CUBIC YARD MEASURE FOR LEDGE AND/OR BOULDER REMOVAL. LEDGE AND/OR BOULDERS LESS THAN 1 CUBIC YARD IN SIZE BASED ON THE AVERAGE DIMENSIONS WILL NOT BE CONSIDERED PAYABLE ROCK. UNIT PRICE SHALL BE GIVEN FOR BOTH ON AND OFF SITE DISPOSAL. COST OF REPLACEMENT MATERIAL SHALL BE INCLUDED IF ADDITIONAL FILL MATERIAL IS REQUIRED.
- THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO AN APPROVED DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL
- CONCRETE TRUCKS SHALL NOT BE WASHED ONSITE. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
- 22. BURIAL OF ANY STUMPS, SOLID DEBRIS, AND/OR STONES/BOULDERS ONSITE IS PROHIBITED. NO ROAD SALT OR OTHER DE-ICING CHEMICALS SHALL BE USED ON THE PARKING AREAS, DURING OR AFTER
- 23. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER.
- AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF ALL THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.

#### LANDSCAPING NOTES:

- 1. ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 NURSERY STOCK, LATEST EDITION (AMERICAN ASSOCIATION OF NURSERYMEN, INC.)
- 2. 4" AGED PINEBARK MULCH SHALL BE APPLIED TO ALL SHRUB & GROUNDCOVER BEDS.
- 3. PLANT PIT BACKFILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 1 PART OF DEHYDRATED COW MANURE. USE EXISTING ON SITE TOPSOIL AS PART OF BACKFILL WHEN AVAILABLE.
- ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH SEEDING OR SODDING AS INDICATED ON PLANS.
- ALL SOD, SEED, SHRUB AND TREE AREAS SHALL RECEIVE 6"ph CORRECTED TOPSOIL. AFTER TOP-SOIL IS SPREAD EVENLY OVER ENTIRE AREA, ALL CLODS, LUMPS, STONES AND OTHER DELETERIOUS MATERIAL SHALL BE RAKED UP AND REMOVED.
- 6. APPLICATION OF GRASS SEED, FERTILIZERS, LIME AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED.
- 7. NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE HAY MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 3
- 8. ANY CHANGES IN PLANT LOCATIONS OR TYPE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 9. CLEAR AND GRUB (TO LIMITS SHOWN ON GRADING PLAN) TO REMOVE TREES, ROCKS, DEBRIS, ROOTS, ETC. STUMPS SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH STATE REGULATIONS. AFTER CLEARING, ROTOTILL, STRIP AND STOCKPILE ALL ON-SITE TOPSOIL FOR REUSE TO THE MAXIMUM EXTENT POSSIBLE.
- 10. FOR SEED AND SOD AREAS G.C. TO USE EXISTING TOPSOIL, IF AVAILABLE, FOR A 4" DEPTH AND TOP DRESS WITH 2" OF SCREENED TOPSOIL, UNLESS OTHERWISE NOTED ON
- 12. ALL TREES, SHRUBS AND SOD SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE.

BLACK RUBBER HOSE.

WRE ABOVE TURN-

- 2" X 4" X 3' STAKES

(SEE GRADING PLAN)

- B&B OR CONTAINERIZED

REQUIREMENTS)

SOIL AS SPECIFIED.

(SEE SPECIFICATIONS FOR ROOT BALL

FINISHED GRADE.

- 4" MULCH AS

WHITE PLASTIC FLAG ON

BUCKLE AND 4" ABOVE GROUND, TYP.

SHRUB PLANTING DETAIL

NOT TO SCALE

LARGE TREE PLANTING DETAIL

NOT TO SCALE

1. SANDY LOAM and/or LOAMY SAND TOPSOIL MATERIAL SHALL BE EXCAVATED FROM ALL PAVED

SUB-GRADE (EXISTING MATERIAL) SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE

STONE and/or COARSE SAND, FREE FROM LOAM and CLAY TO A DEPTH NOT LESS THAN 4 FEET

3. SUBGRADE FILL SHALL BE COMPACTED TO 95% COMPACTION UNLESS OTHERWISE DIRECTED BY THE

PRIOR TO INSTALLING THE WEARING COURSE, THE EXISTING BINDER COURSE SURFACE SHALL BE SWEPT COMPLETELY CLEAN BY A STREET SWEEPING MACHINE AND A TACK COAT SHALL BE

PARKING AREA PAVEMENT SECTION

NOT TO SCALE

NOTES: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS

PRIOR TO INSTALLATION

FINISHED GRADE

2 1/2" MULCH AS SPECIFIED -

B&B OR CONTAINERIZED (SEE — PLANT SCHEDULE FOR ROOT BALL

CLEAN WATERED IN BACKFIL

COMPACT PLANTING SOIL BENEATH ROOTBALL

NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR

4" BITUMINOUS CONCRETE PAVEMENT -

(MDPW SPEC. TYPE I-1 PLACED IN

ON 2½" BINDER COURSE)

8" GRAVEL BASE COURSE -

COMPACTED SUBGRADE -

AREAS PRIOR TO SUB-BASE INSTALLATION.

BELOW THE FINISH PAVEMENT SURFACE.

COURSE)

SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH and LOCATION.

INSTALLED TO A LEVEL APPROVED BY THE ENGINEER.

SEE GRADING PLAN FOR PAVEMENT SLOPE and CROSS SLOPE.

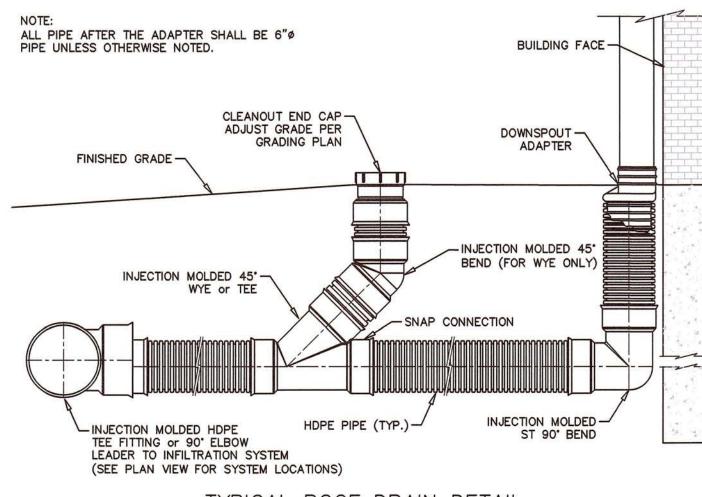
(MDPW SPEC. M1.03.0 GRAVEL

BORROW OR RECLAIMED BASE

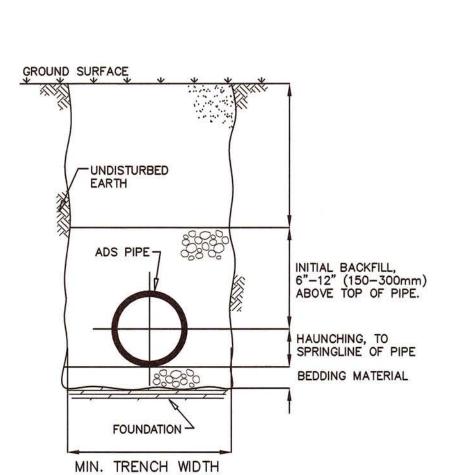
TWO LAYERS 11/2" WEARING SURFACE

TO INSTALLATION.

AS SPECIFIED.

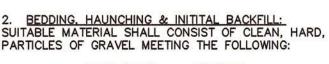


TYPICAL ROOF DRAIN DETAIL NOT TO SCALE



FOUNDATION: WHERE THE TRENCH BOTTOM IS JNSTABLE. THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321. STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE

STABILIZED USING A WOVEN GEOTEXTILE FABRIC.



SIEVE SIZES PASSING 85-95%

MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100-600MM) AND 42"-48" (1050-1200MM) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150MM) FOR 30"-36" (750-900MM)

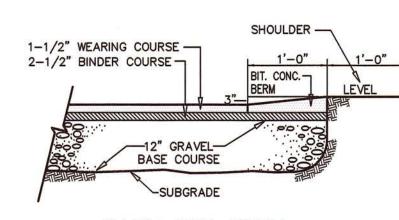
4. MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS: MIN. RECOMMENDED TRENCH WIDTH. in (mm) in (mm) 8 (200) 10 (250) 12 (300) (790)34 (860)

5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TAKEN FROM

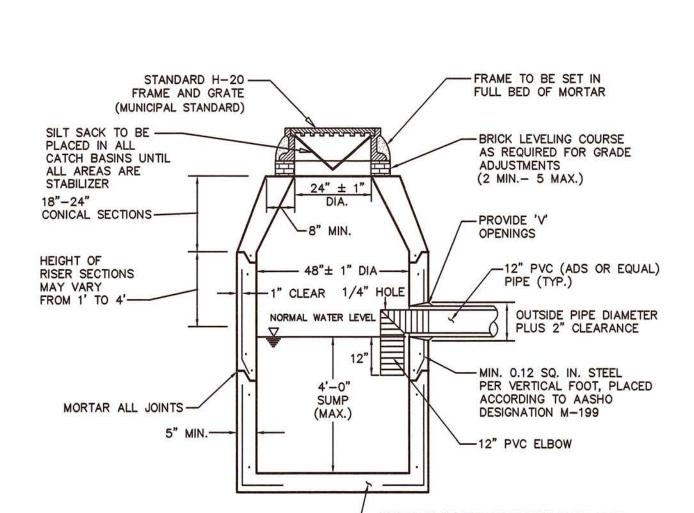
THE TOP OF PIPE TO THE GROUND SURFACE. SURFACE LIVE MINIMUM RECOMMENDED LOADING CONDITION COVER, in (mm) 12 (300) H25 (FLEXIBLE PAVEMENT) 12 (300) H25 (RIGID PAVEMENT) 24 (610) E80 RAILWAY HEAVY CONSTRUCTION 48 (1220) *TOP OF PIPE TO BOTTOM OF BITUMINOUS

TRENCH CROSS-SECTION & A.D.S. PIPE INSTALLATION DETAIL NOT TO SCALE

PAVEMENT SECTION



CAPE COD BERM NOT TO SCALE



2" CLEAR-

-8" MIN. M2.01.4

PRE-CAST CONCRETE DRAIN MANHOLE

NOT TO SCALE

CRUSHED STONE

STANDARD MANHOLE -

FRAME AND COVER

CONICAL SECTIONS -

RISER SECTIONS

FROM 1' TO 4'-

OUTSIDE OF PIPE

+2" CLEARANCE

PROVIDE 'V'

**OPENINGS** 

HEIGHT OF

MAY VARY

- FRAME TO BE SET IN

ADJUSTMENTS

(2 MIN.- 5 MAX.)

-MORTAR ALL JOINTS

- MIN. 0.12 SQ. IN. STEEL

ACCORDING TO AASHO

DESIGNATION M-199

PER VERTICAL FOOT, PLACED

1#3 BAR AROUND OPENINGS

PRECAST IN RISER SECTION

FOR PIPES 18" DIAMETER

AND OVER 1" COVER

PIPE OPENINGS TO BE

FULL BED OF MORTAR

-BRICK LEVELING COURSE

AS REQUIRED FOR GRADE

 $TOP = 34.0 \pm \neg$ 

INV. = 32.3 -

PERMANENT POOL

2,184 GALLONS

292 CU. FT.

-- \ INLET

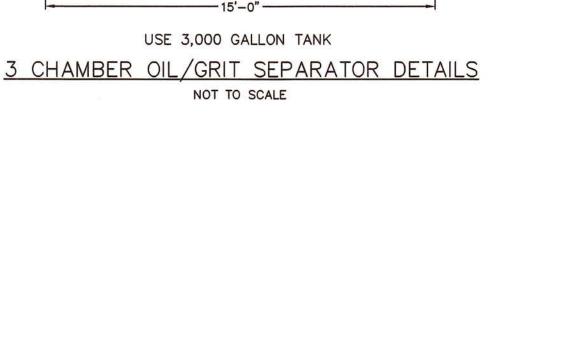
INLET

GALVANIZED SCREEN

PRE-CAST CONCRETE CATCH BASIN NOT TO SCALE

PRECAST CEMENT CONCRETE BASE UNIT

NOTES:



O 36"
OUTLET

-H-20 CONCRETE TOP W/24" DIA. OPENING

CONCRETE BLOCK

MANHOLE (TYP.)

OUTLET

-INV. = 31.8

#### CONCRETE COLLAR -PAVEMENT : CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS 12" NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER OR CONCRETE SLAB 8" MIN THICKNESS 6" SDR35 PIPE FLEXSTORM CATCH IT 6" INSERTA TEE PART# 6212NYFX INSERTA TEE TO BE CENTERED ON WITH USE OF OPEN CORRUGATION CREST

STORMTECH INSPECTION PORT DETAIL NOT TO SCALE

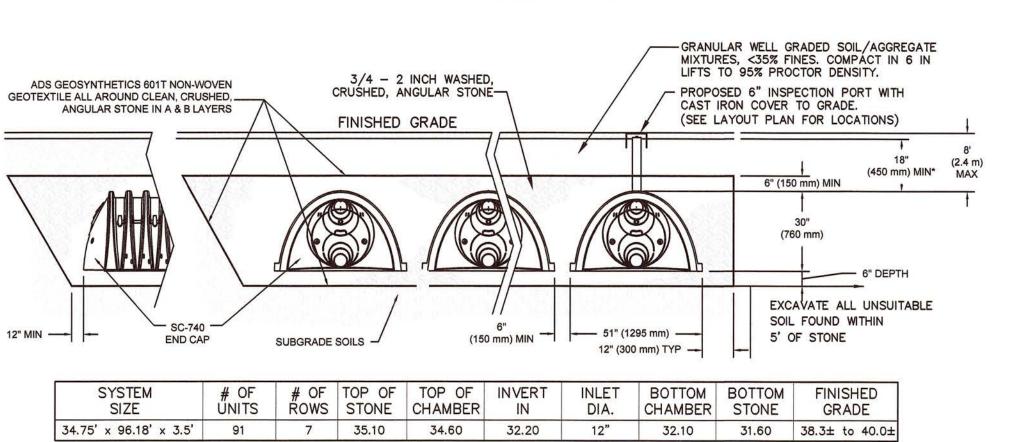
CHAMBERS SHALL MEET ASTM F 2418-05 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE SAFETY FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE SAFETY FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS USING STORMTECH CHAMBERS UNSUITABLE SOILS: SURFICIAL ORGANICS, SURFICIAL OR BURIED TOP SOIL/SUB SOIL, OLD FOUNDATION, UTILITIES, PAVEMENT, FILL AND ALL OTHER DELETERIOUS MATERIAL. SOIL INSPECTION; THE DESIGN ENGINEER SHALL CONDUCT A BOTTOM OF EXCAVATION TEST, TO VERIFY THE UNSUITABLE MATERIALS HAVE BEEN

THE CRUSHED STONE BASE.

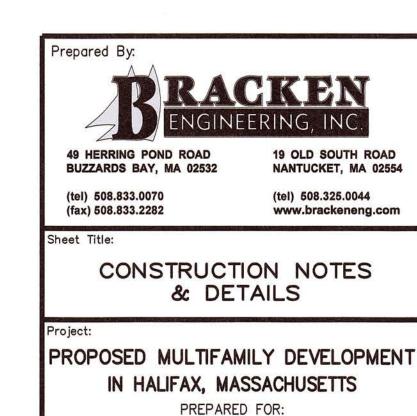


REMOVED PRIOR TO BACKFILL OF SAND AND PRIOR TO THE INSTALLATION OF

PROTECTION: INFILTRATION AREAS ARE TO BE PROTECTED DURING CONSTRUCTION AND AVOID OVER COMPACTION TO INSURE THE INFILTRATION CAPACITY IS MAINTAINED.



STORMWATER MANAGEMENT AREA CROSS-SECTION NOT TO SCALE



#8 HILDA LANE MAP 18 LOT 28 No. Date Revision Description Checked: |Sheet: NOVEMBER 20, 2020 RMM/ERC/BEI DFB/AMG 6 of 6

8 HILDA LANE REALTY TRUST

Autocad Drawings\Halifax\Hilda Lane\8 Hilda Lane.dwa