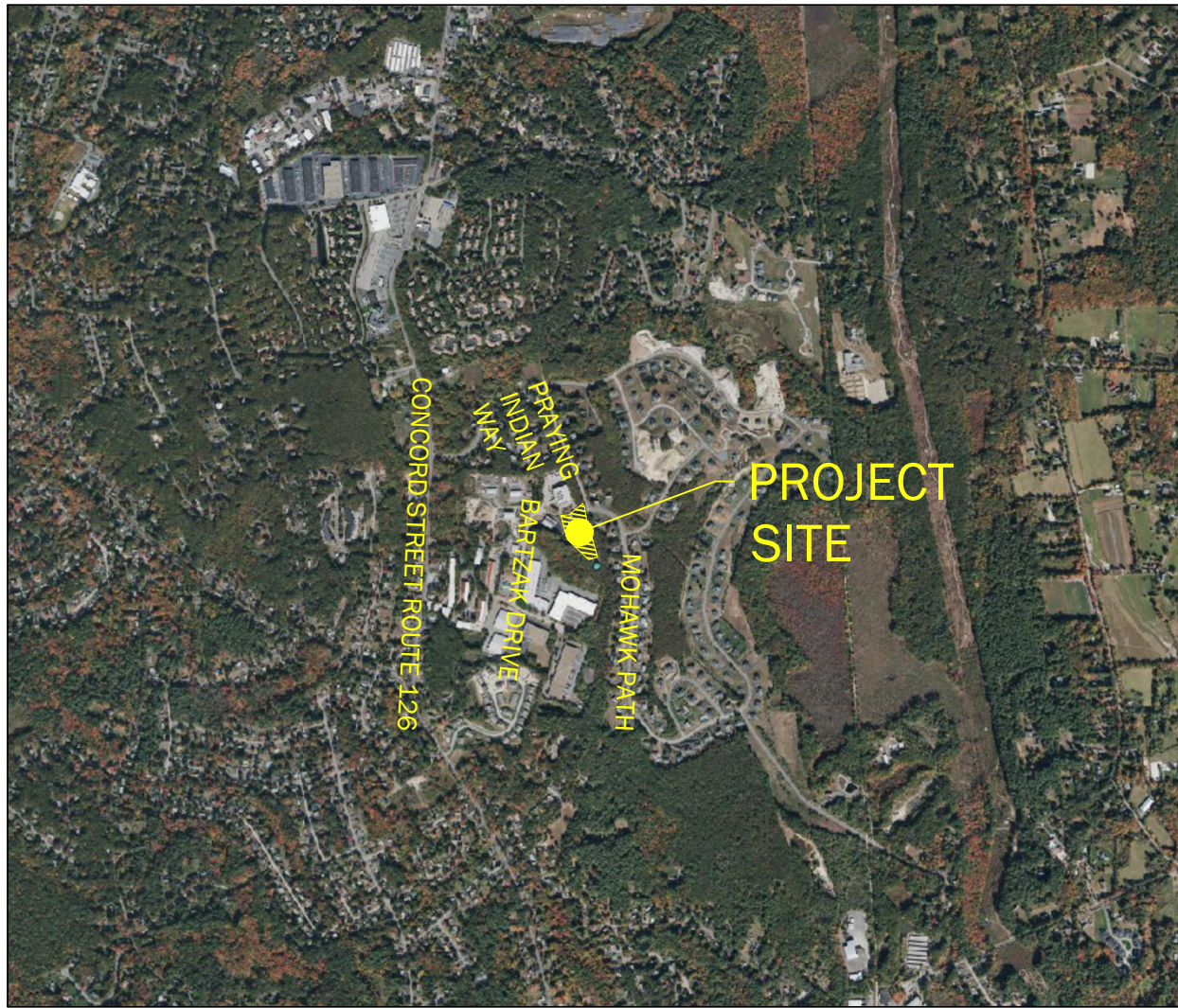


PROJECT PARCEL SITE  
TOWN OF HOLLISTON ASSESSORS MAP DATA

PARCEL ID : 14-21.4

PLANS TO ACCOMPANY PERMIT DOCUMENTS  
FOR  
LARGE-SCALE SOLAR POWER GENERATION SYSTEM  
0 BARTZAK DRIVE  
HOLLISTON, MASSACHUSETTS  
ORIGINAL ISSUE DATE:  
JULY 27, 2022



LOCUS MAP  
1"=2000'

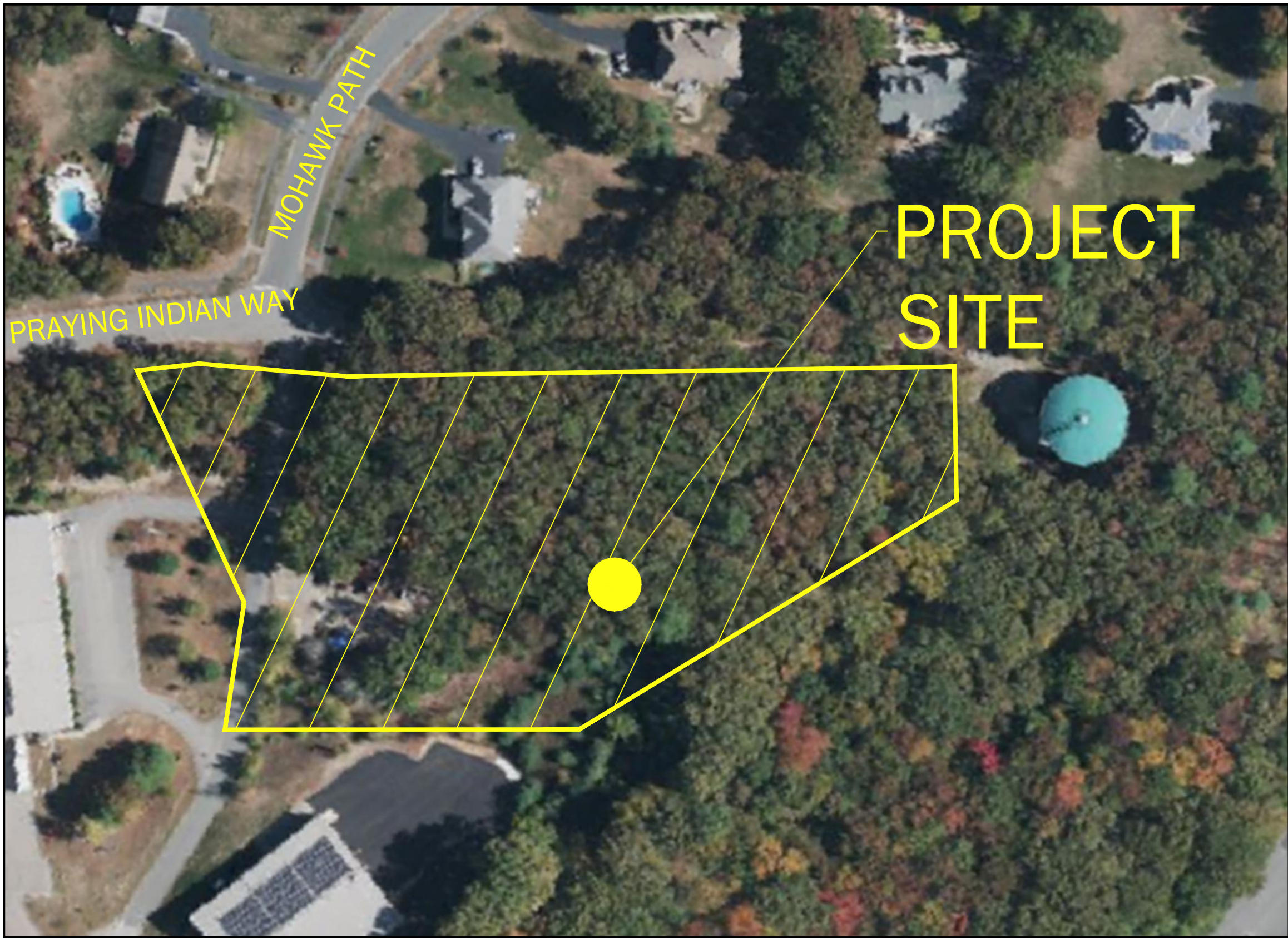
INDEX

SHEET I.D.	TITLE	LAST REVISED
C000	COVER SHEET	2022.07.27
C001	GENERAL NOTES AND LEGEND	2022.07.27
C100	ALTA/NSPS LAND TITLE SURVEY	2022.01.28
C101	SUPPLEMENTAL EXISTING CONDITIONS PLAN	2022.07.27
C110	EROSION AND SEDIMENTATION CONTROL PLAN	2022.07.27
C111	EROSION AND SEDIMENTATION CONTROL NOTES	2022.07.27
C120	SITE PLAN	2022.07.27
C121	LANDSCAPE PLAN	2022.07.27
C200	DETAILS	2022.07.27
C201	DETAILS	2022.07.27
C202	DETAILS	2022.07.27

PERMITS

LOCAL	GOVERNING BODY	STATUS
SITE PLAN REVIEW & SPECIAL PERMIT	TOWN OF HOLLISTON PLANNING BOARD HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: KAREN SHERMAN	FILED JULY 27, 2022
MAJOR LAND DISTURBANCE PERMIT	TOWN OF HOLLISTON PLANNING BOARD HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: KAREN SHERMAN	FILED JULY 27, 2022
NOTICE OF INTENT	TOWN OF HOLLISTON CONSERVATION COMMISSION HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: RYAN CLAPP	TO BE FILED
BUILDING PERMIT	TOWN OF HOLLISTON BUILDING DEPARTMENT HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: MARK KAERLEIN	TO BE FILED

FEDERAL	GOVERNING BODY	STATUS
NPDES CONSTRUCTION GENERAL PERMIT	U.S ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND REGION 5 POST OFFICE SQUARE SUITE 100 BOSTON MA,02109	TO BE FILED 14 DAYS PRIOR TO CONSTRUCTION



SITE AERIAL  
1"=80'

PREPARED BY

CIVIL ENGINEER  
**BEALS ASSOCIATES, INC.**  
2 PARK PLAZA  
SUITE 200  
BOSTON, MA 02116  
T.617.242.1120

SURVEYOR  
**PRECISION LAND SURVEYING, INC.**  
32 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772

SOLAR DESIGNER  
**WOOD PLC**  
17325 PARK ROW  
HOUSTON, TX 77084

ENVIORNMENTAL  
**GEOENGINEERS USA PC**  
239 CAUSEWAY STREET  
BOSTON, MA 02114

"I ATTEST THAT THE PLANNING BOARD VOTED  
TO TO APPROVE THIS  
SPECIAL PERMIT/SITE PLAN ON (DATE).

(SIGNATURE OF PLANNING BOARD MEMBER)\*

APPLICANT/DEVELOPER  
**BARTZAK PV I, LLC**  
200 PORTLAND STREET, 5TH FLOOR  
BOSTON, MA 02114  
T: 617. 971.7823  
ATTN: ADAM MAYNARD

PROPERTY OWNER  
**BARTZAK LAND, LLC**  
200 PORTLAND ST. 5TH FLOOR  
BOSTON, MA 02114

*D. Howe*  
DEVIN P. HOWE, P.E. 57328 CIVIL

I HEREBY ACKNOWLEDGE THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS TO PRACTICE AS A PROFESSIONAL ENGINEER.



Project No. C-1278  
Original Issue Date:  
July 27, 2022  
**BEALS ASSOCIATES INC.**  
2 PARK PLAZA SUITE 200 BOSTON, MA 02116  
PHONE: 617-242-1120  
\*PLANNING \*ENGINEERING \*PERMITTING \*MANAGEMENT

REVISION	DATE



1. NO DRAWINGS ISSUED ELECTRONICALLY SHALL BE USED FOR CONSTRUCTION PURPOSES. ALL ELECTRONIC MEDIA IS PROVIDED OUT OF COURTESY ONLY AND MAY NOT BE USED FOR PUBLICATION, REPRODUCTION, OR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY ROADWORK OR MUNICIPAL CONSTRUCTION.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AND ALL UTILITIES ARE TO BE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, SURVEY INFORMATION BY THE PROJECT SURVEYOR, AND MEASUREMENTS TAKEN IN THE FIELD WHERE POSSIBLE. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL ADVISE THE DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS (48-HRS-DUE-DATE) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS TO MARK OUT ALL LOCALLY OWNED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN. THE CONTRACTOR SHALL NOT RELOCATE ANY LOCALLY OWNED UTILITY WITHOUT PRIOR APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS. ALL UTILITY WORK WITHIN THE RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED DRAIN LAYER UNDER THE SUPERVISION OF THE DEPARTMENT OF PUBLIC WORKS.
4. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EROSION CONTROL PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS DEEMED NECESSARY BY ON-SITE INSPECTIONS BY THE OWNER OR THEIR REPRESENTATIVES AND THE MUNICIPAL CODE ENFORCEMENT OFFICER AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL CONFORM TO ALL REGULATIONS, ORDINANCES, AND TO THE LOCAL SPECIFICATIONS, MASSACHUSETTS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS, AWWA STANDARDS AND OTHER RELATED INDUSTRY STANDARDS.
6. THIS PROJECT IS SUBJECT TO ALL TERMS AND CONDITIONS OF ALL REGULATIONS ADMINISTERED BY THE MASSACHUSETTS ENVIRONMENTAL POLICY ACT, MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION, LOCAL UTILITY STANDARDS, AND ALL OTHER MUNICIPAL ORDINANCES.
7. THE CONTRACTOR SHALL REVIEW ALL RELEVANT FEDERAL, STATE AND MUNICIPAL PERMITS ASSOCIATED WITH THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CERTIFY THAT ALL NECESSARY MATERIALS AND ALL CONSTRUCTION DOCUMENTS, TESTING AND REPORTING OF THE PERMITS HAVE BEEN MET AND THE PROJECT HAS BEEN CONSTRUCTED IN COMPLIANCE WITH THESE PORTIONS OF THE PERMITS.
8. THE CONTRACTOR SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION, AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
9. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE COMPLETED AND OF EACH OTHER. SHOULD ANY OMISSION, ERROR, OR DISCREPANCY ARISE, THEY SHALL BE SUBJECT TO THE INTERPRETATION AND INTERPRETER BY THE DESIGN ENGINEER, THEREBY DEFINING AND FULFILLING THE INTENT OF THE PLANS.
10. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS, WORK THAT CONFLICTS WITH THE PERMITS, OR ANY OTHER DISCREPANCIES. THE CONTRACTOR'S OWN RISK, COSTS OF ANY CHANGES REQUIRED BY THE ENGINEER OF SAID WORK SHALL BE SOLELY BORNE BY THE CONTRACTOR.
11. WHERE THE EXISTING UTILITIES ARE FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RELOCATION OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
12. MATERIALS SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED ON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
13. ALL MATERIALS SHALL BE PERFORMED WITH THE HIGHEST STANDARDS OF THE INDUSTRY.
14. THE CONTRACTOR SHALL DISPOSE OF HAZARDOUS MATERIALS AND CONSTRUCTION BY-PRODUCTS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ACCUMULATED WASTE MATERIALS OR RUBBISH GENERATED BY THEIR ACTIVITIES. UPON CLEARANCE OF ALL DEBRIS, SUPPLIES, AND EQUIPMENT SHALL BE REMOVED.
16. THE CONTRACTOR SHALL VISIT THE SITE AND ALL CONSTRUCTION SHALL BE BASED UNDER THE SUPERVISION OF THE COMMENCING WORK.
17. PRIOR TO CONSTRUCTION, CONTRACTORS SHALL SUBMIT A JOB SCHEDULE TO BE DISCUSSED AND PERFORMED IN ACCORDANCE WITH TARGET DATES PROVIDED AND SUBJECT TO OWNER APPROVAL.
18. ALL MATERIALS AND WORK SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY.
20. LATERAL DISTANCE TO ALL BUFFER ZONES AND CRITICAL AREAS TO BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
21. THE CONTRACTOR SHALL CONFORM TO ALL CONSTRUCTION ACTIVITIES, THE PROPOSED CONSTRUCTION SHALL MEET WITH THE EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
22. AREAS OUTSIDE OF THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, CABLES, AND TELEPHONE. SHALL BE SUBJECT TO ALTERATION AND ADJUSTMENT. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION COORDINATION WITH THE INSTALLERS.
24. ALL EXCAVATED AREAS SHALL BE PROTECTED BY EROSION CONTROL MEASURES.
25. SEDIMENT DEPOSITED IN ANY DRAINAGE SYSTEM SHALL BE REMOVED BY THE CONTRACTOR UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
26. EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED FOR THE PROTECTION OF THE WORK AND/OR AS SHOWN ON THE PLANS AS NECESSARY.
27. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION, EROSION CONTROL SHALL DENOTE THE LIMIT OF WORK UNLESS OTHERWISE NOTED.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE LOCAL STANDARDS AND REGULATIONS. A STREET OPENING PERMIT SHALL BE OBTAINED FOR ALL SUCH WORK AS NECESSARY.
31. ALL OMISSIONS UNLESS OTHERWISE NOTED IS TO THE FACE OF CURB, EDGE OF PAVEMENT OR FACE OF BUILDING.
32. ANY DISCREPANCIES IN EXISTING CONDITIONS WILL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER IMMEDIATELY.
33. THE TOPOGRAPHY SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
34. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
35. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE PROPERTY OWNER.
36. PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AT ALL TIMES THROUGHOUT THE PROJECT. IF ANY MARKERS OR MONUMENTS ARE DISTURBED, THEY SHALL BE REPLACED BY REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

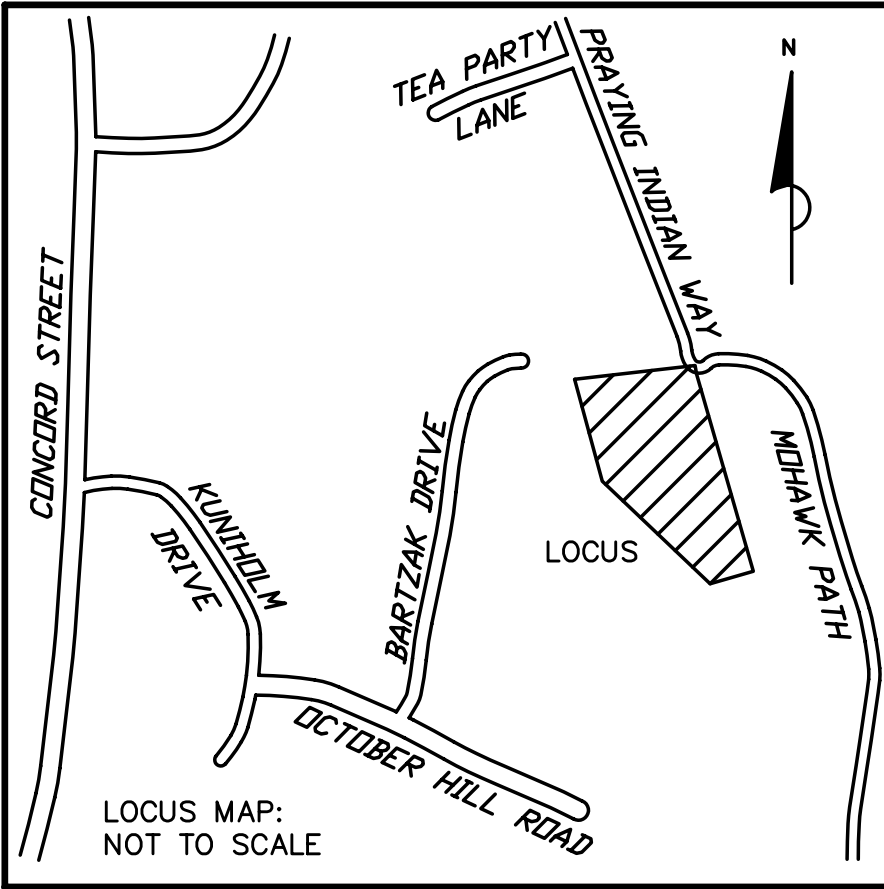
9. ANY DISCREPANCIES IN THE EXISTING CONDITIONS SHALL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER PRIOR TO ADDITIONAL CONSTRUCTION ACTIVITIES.

	PROPOSED PROPERTY LINE
	PROPOSED EASEMENT LINE
	PROPOSED TREE LINE
	PROPOSED GAS LINE
	PROPOSED WATER LINE
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED ELEC./CABLE/TELE
	PROPOSED SEWER LINE
	PROPOSED DRAIN LINE
	PROPOSED FENCE
	PROPOSED GUIDELINE
	PROPOSED EROSION CONTROL
	PROPOSED DRAIN MANHOLE
	PROPOSED SEWER MANHOLE
	PROPOSED TELE/CABLE MANHOLE
	PROPOSED ELECTRIC MANHOLE
	PROPOSED UTILITY POLE
	PROPOSED WATER VALVE
	PROPOSED GAS SHUT OFF
	PROPOSED CATCH BASIN
	PROPOSED FLARED END
	PROPOSED CONTOUR
	PROPOSED CURBLINE
	PROPOSED STONEWALL
	PROPOSED HYDRANT
	PROPOSED STREET SIGN
	PROPOSED STREETLIGHT
	PROPOSED RIP-RAP
	PROPOSED BARRIER FREE SYMBOL
	PROPOSED BOLLARD
	PROPOSED SIGN LABEL
	PROPOSED BUILDING
	PROPOSED RIPRAP INLET/OUTLET APRON
	PROPOSED UNDER DRAIN
	PROPOSED FOUNDATION DRAIN
	PROPOSED TEST PIT
	PROPOSED TRANSFORMER PAD
	PROPOSED CONSTRUCTION ENTRANCE
	PROPOSED STONE CHECK DAM
	PROPOSED STONE SEDIMENT BARRIER
	PROPOSED GRAVEL SURFACE
	PROPOSED LIGHT DUTY PAVEMENT
	PROPOSED HEAVY DUTY PAVEMENT

Not for Construction

C001





LEGAL DESCRIPTION of First American Title Insurance Company's Commitment for Title Insurance, Commitment Number 3020-1049320, Dated: February 23, 2021.

The Land is described as follows: Real property in the City of Holliston, County of Middlesex South, Commonwealth of Massachusetts, described as follows:

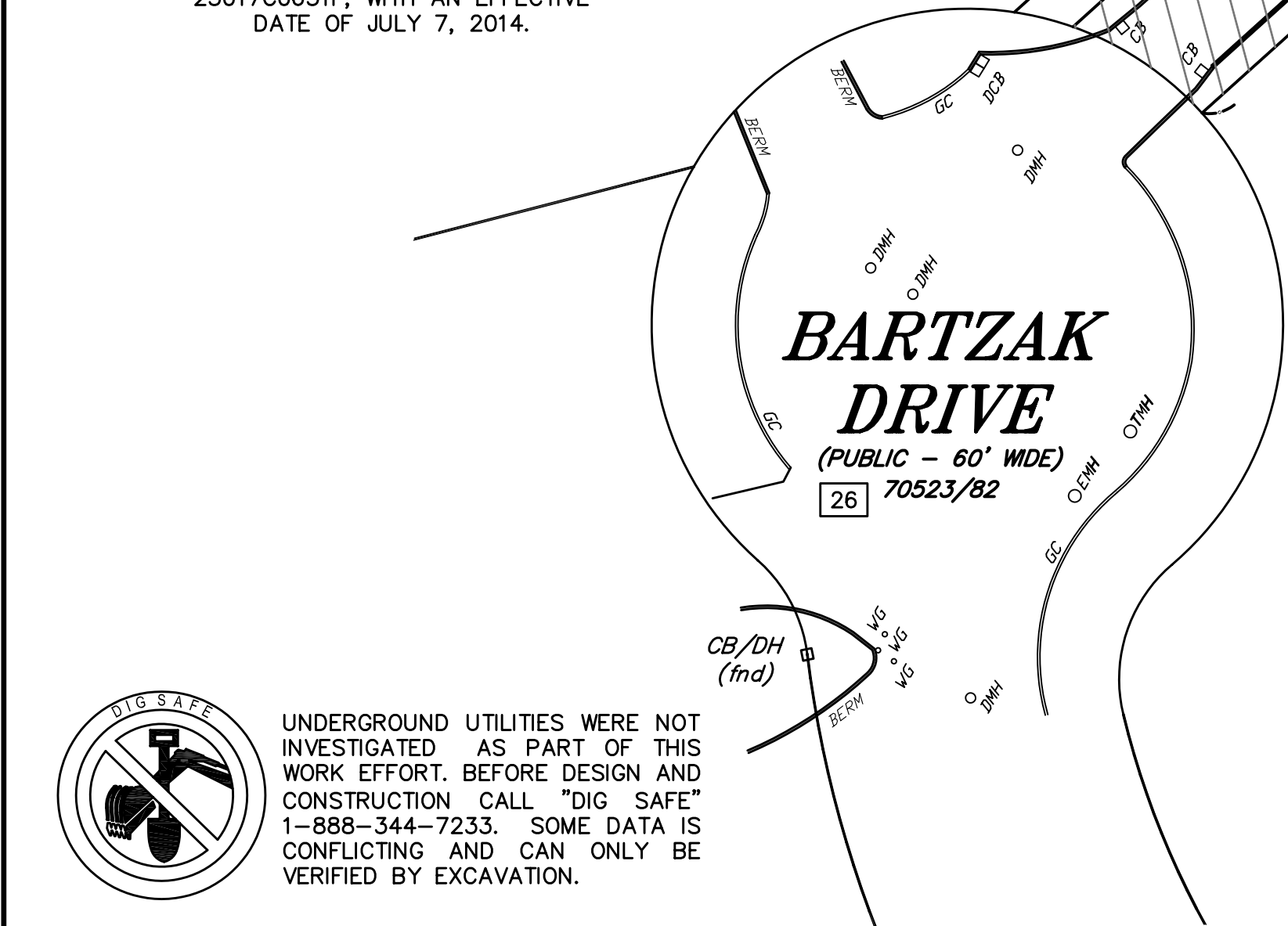
A certain parcel of land, with the buildings and improvements thereon, situated on the westerly side of Praying Indian Way, a private way, also known as Jennings Road, in the Town of Holliston, Middlesex County, Commonwealth of Massachusetts (the "Premises"), being shown as "Parcel A" Portion of Map 14 Block 4 Lot 21.2" ("Parcel A") on the plan entitled "Plan of Land, 104 Bartzak Drive, Assessors Map 14, Block 4, Lot 21.2, Holliston, Massachusetts", dated March 12, 2008, Scale 1" = 40', by Thompson Merrill Engineering and Land Surveying Co., and recorded in the Registry as Plan No. 972 of 2008 (the "Plan"), bounded and described as follows:

Beginning at a point on the westerly side of Praying Indian Way at the northerly corner of said premises and thence running: S 21° 25' 18" E 47.17 feet along Praying Indian Way to a stone bound drill hole, as shown on the Plan; thence turning and running S 10° 07' 27" E 109.98 feet along Mohawk Path, as shown on the Plan; thence running S 16° 00' 38" E 22.85 feet by said Mohawk Path; thence continuing S 16° 00' 38" E 432.91 feet along the discontinued section of Jennings Road, as shown on the Plan; thence turning and running S 73° 55' 43" W 100 feet along land now or formerly of Lennar Central Partners Limited Partnership, as shown on the Plan; thence turning and running N 46° 23' 08" W 331.23 feet; thence turning and running N 15° 06' 47" W 265.16 feet, the last two courses by land now or formerly of New Barn Cove Family Limited Partnership, as shown on the Plan; thence turning and running N 83° 32' 58" E 96.28 feet; thence turning and running N 50° 10' 39" E 191.53 feet, the last two courses by Parcel B, as shown on the Plan, to the point of beginning.

Containing according to the Plan approximately 126,706 square feet or 2.91 acres, more or less.

The Premises are conveyed together with the perpetual, non exclusive right and easement for the benefit of and as appurtenant to Parcel A, only, to use that portion of the area shown as "EXISTING 30' WIDE ACCESS & UTILITY EASEMENT" over, under and across Parcel B as shown on the Plan ("Parcel A Easement Area"), for the purpose of (i) access to and egress from Parcel A from and to Bartzak Drive, by passing and re-passing by vehicle or by foot over the Parcel A Easement Area, including, without limitation, the right to use, inspect, maintain, repair, plow, and replace the paved way and other related improvements now or hereafter located within the Parcel A Easement Area, and (ii) the provision of gas, telephone, electric, cable television, fiber optic, water, and other utilities and services to Parcel A, including, without limitation, the right to install, tie into, use, inspect, maintain, repair, expand, and replace cables, wires, pipes, conduits, and other equipment or facilities now or hereafter located within the Parcel A Easement Area.

**FLOOD NOTE**  
BY GRAPHIC PLOTTING ONLY, THE PARCEL SHOWN HEREON IS LOCATED IN ZONE X, NON-SHADED, AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 25017C0631F, WITH AN EFFECTIVE DATE OF JULY 7, 2014.



UNDERGROUND UTILITIES WERE NOT INVESTIGATED AS PART OF THIS WORK EFFORT. BEFORE DESIGN AND CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233. SOME DATA IS CONFLICTING AND CAN ONLY BE VERIFIED BY EXCAVATION.

PRAYING INDIAN WAY (PRIVATE)

PARCEL E 30312/44 PLAN 660 OF 1999

10' WIDE GRADING EASEMENT 30312/44 PLAN 660 OF 1999

APPROX. LOC. PARCEL A EASEMENT AREA 25 52595/31

N/F HOLLISTON REALTY TRUST 30360/468 (PARCEL B)

10' WIDE CONSTRUCTION EASEMENT PLAN 660 OF 1999

EXISTING 30' WIDE ACCESS & UTILITY EASEMENT 30360/468 22 30360/439

10' WIDE CONSTRUCTION EASEMENT PLAN 660 OF 1999

EXISTING 30' WIDE ACCESS & UTILITY EASEMENT 30360/468 22 30360/439

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10' WIDE CONSTRUCTION EASEMENT PLAN 660 OF 1999

EXISTING 30' WIDE ACCESS & UTILITY EASEMENT 30360/468 22 30360/439

SCHEDULE B, PART II: EXCEPTIONS of First American Title Insurance Company's Commitment for Title Insurance, Commitment Number 3020-1049320, Dated: February 23, 2021.

- Subject to and with the benefit of rights and easements set forth in Deed recorded in Book 21070, Page 204, and further conveyed in Deed recorded in Book 30360, Page 468, as affected by a Release of Easement recorded in Book 32041, Page 133 and Book 39389, Page 614 on Plan No. 1138 of 1980. INFORMATIONAL NOTE: Many of the easements in this deed are now non-locus. PLOTTED AND SHOWN WHERE POSSIBLE. SOME ITEMS ARE BLANKET IN NATURE OVER THE "NEW ENGLANDER INDUSTRIAL PARK" AND NOT PLOTTED. NOTE SHOULD BE MADE THAT BARTZAK DRIVE WAS FORMERLY A PORTION OF LOCUS, AS SHOWN ON PLAN No. 1138 of 1980, AND HAS SINCE BEEN RELOCATED AND ACCEPTED AS A PUBLIC WAY.
- Notice of Variance by the Zoning Board of Appeals of the Town of Holliston recorded in Book 14206, Page 88. NOT A SURVEY RELATED ITEM.
- Utility Easement to Boston Edison Company recorded in Book 14321, Page 262. ITEM IS WITHIN WAYS, INCLUDING BARTZAK DRIVE. NOTE SHOULD BE MADE THAT BARTZAK DRIVE WAS FORMERLY A PORTION OF LOCUS, AS SHOWN ON PLAN No. 1138 of 1980, AND HAS SINCE BEEN RELOCATED AND ACCEPTED AS A PUBLIC WAY.
- Utility Easement to New England Telephone and Telegraph Company recorded in Book 14358, Page 42. ITEM IS BLANKET IN NATURE AND NOT PLOTTED.
- Terms and provisions set forth in Deeds recorded in Book 24831, Page 82 and Book 25401, Page 48. NOT A SURVEY RELATED ITEM.
- Utility Easement to New England Telephone and Telegraph Company and Boston Edison Company recorded in Book 29352, Page 299. ITEM IS BLANKET IN NATURE AND NOT PLOTTED.

- NOTES
- NO OBSERVED EVIDENCE OF THE SITE BEING USED AS A CEMETERY OR BURIAL GROUND
  - NO BUILDINGS WERE OBSERVED ON SITE.
  - NO MARKED PARKING SPACES OBSERVED ON SITE.
  - NO DIVISION OR PARTY WALLS OBSERVED.
  - THE PARCEL SHOWN HEREON HAS ACCESS TO BARTZAK DRIVE, A PUBLIC WAY VIA A 30' WIDE ACCESS AND UTILITY EASEMENT.

REFERENCES  
MIDDLESEX COUNTY REGISTRY OF DEEDS  
PLAN No. 972 OF 2008  
" " 80 " 2000  
" " 1006 " 1999  
" " 660 " 1999  
" " 1138 " 1980

LEGEND:	
BERM	BITUMINOUS CONCRETE BERM
BIT CONC	BITUMINOUS CONCRETE
BW	BARBED WIRE
CB	CATCH BASIN
CB/DH	CONCRETE BOUND / DRILL HOLE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
EMH	ELECTRIC MANHOLE
GC	GRANITE CURB
GEN	GENERATOR
HYD	HYDRANT
LP	LIGHT POLE
MC	METAL COVER
P	POST
SB/DH	STONE BOUND / DRILL HOLE
TMH	TELEPHONE MANHOLE
TP	TELEPHONE POST
TR	TRANSFORMER
WG	WATER GATE

SCHEDULE B, PART II: EXCEPTIONS of First American Title Insurance Company's Commitment for Title Insurance, Commitment Number 3020-1049320, Dated: February 23, 2021. (continued)

- Easement Grants for road widening and grading to Fafard Real Estate and Development Corp. recorded in Book 30312, Page 44, and as shown on Plan recorded as Plan No. 660 of 1999 in Book 30309, Page 169. PLOTTED AND SHOWN HEREON.
- Grant of Access and Utility Easement to Fafard Real Estate and Development Corp. et al. recorded in Book 30360, Page 439 on Plan No. 517 of 1999, sheet 1 of 2. PLOTTED AND SHOWN HEREON.
- Decision for Special Permit and Site Plan Approval by the Planning Board of the Town of Holliston recorded in Book 30360, Page 449. NOT A SURVEY RELATED ITEM.
24. Decision of Variance by the Zoning Board of Appeals of the Town of Holliston recorded in Book 51002, Page 399. NOT A SURVEY RELATED ITEM.
- Subject to and with the benefit of Terms, Conditions, Rights and Easements set forth in Deed recorded in Book 52595, Page 31 on Plan No. 972 of 2008 and Plan No. 660 of 1999. INFORMATIONAL NOTE: Access is granted in this deed.
- Terms and Provisions set forth in Deed conveying all right, title and interest of fee in Bartzak Drive to the Inhabitants of the Town of Holliston and acceptance by said Town recorded in Book 70523, Page 82, and as shown on Plan recorded as Plan No. 36 of 2018.
- All matters shown on Plans recorded as Plan Nos. 517 and 518 of 1999 in Book 30182, Pages 531 and 533, and Plan No. 972 of 2008 including building setback, wetland buffer and access and utility easements.

To: First American Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 2, 3, 4, 6a, 6b, 7a, 7b1, 7c, 8, 9, 13, 14, 16, 17, and 19 of Table A thereof. The field work was completed on January 28, 2022.

Michael Pustizzi, PLS No. 46505  
Date of Survey: January 28, 2022  
Date of Last Revision: February 4, 2022

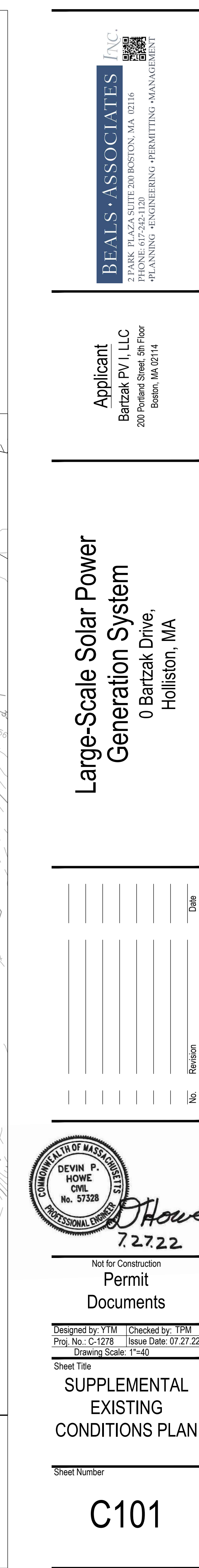
PARCEL A - BARTZAK DRIVE

ALTA/NSPS LAND TITLE SURVEY  
IN  
HOLLISTON, MA  
(MIDDLESEX COUNTY)

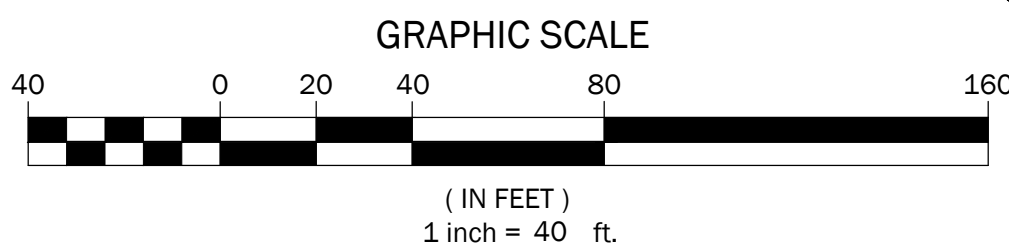
SCALE: 1"= 30' DATE: JANUARY 28, 2022

Precision Land Surveying, Inc.  
32 Turnpike Road  
Southborough, Massachusetts 01772  
TEL NO.: (508) 460-1789 FAX NO.: (508) 970-0096  
4988T1.DWG

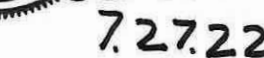








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Document

# EROSION AND SEDIMENTATION CONTROL PLAN

C110



### 3. EROSION CONTROL NARRATIVE

#### o.OVERVIEW OF SOIL EROSION AND SEDIMENTATION CONCERNS

THE GENERAL GOALS OF THE EROSION AND SEDIMENT CONTROL PLAN ARE:

- PLAN THE PROJECT TO BE CONSTRUCTED FROM AREAS OF FLATTER GRADES AND AWAY FROM RESOURCES OR THE PROPERTY BOUNDARIES TO THE EXTENT PRACTICAL.
  - DEVELOP A CAREFUL CONSTRUCTION SEQUENCE.
  - RAPID STABILIZATION OF DENUDED AREAS TO MINIMIZE THE PERIOD OF SOIL EXPOSURE.
  - RAPID STABILIZATION OF DRAINAGE PATHS TO AVOID RILL AND GULLY EROSION.
  - THE USE OF ONSITE MEASURES TO CAPTURE SEDIMENT (STRAW BALES, SILT FENCE, ETC.).
  - PROTECTION OF NATURAL RESOURCE AREAS AND DRAINAGE COURSES THROUGH BUFFERING AND THE USE OF BEST MANAGEMENT PRACTICES.
  - THE IMPLEMENTATION OF LONG-TERM MEASURES FOR EROSION/SEDIMENT POLLUTION TREATMENT THROUGH THE CONSTRUCTION OF PERMANENT WATER QUALITY MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL MEANS AND METHODS ON THE SITE. THE NARRATIVES AND PLANS WITHIN THE CONTRACT DOCUMENTS ARE ANTICIPATED TO BE THE MINIMUM AMOUNT OF EROSION CONTROL NECESSARY, AND ADJUSTMENTS MAY NEED TO BE MADE DURING THE CONSTRUCTION PHASE IN RESPONSE TO WEATHER, UNFORESEEN CONDITIONS OR OTHER FACTORS WHICH COULD IMPACT SOIL EROSION.

#### b.EROSION AND SEDIMENT CONTROL DEVICES

PRIOR TO AND DURING THE DEVELOPMENT OF THE CONSTRUCTION ACTIVITIES, THE SITE CONTRACTOR SHALL IMPLEMENT AT A MINIMUM THE FOLLOWING EROSION AND SEDIMENTATION CONTROL MEASURES.

##### SILTATION FENCE

SILTATION FENCE SHALL BE INSTALLED DOWNSTREAM OF ANY DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE HAS BEEN STABILIZED. THE SILT FENCE SHALL BE INSTALLED PER THE DETAILS ON THE CONSTRUCTION PLANS AND INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY BY THE CONTRACTOR IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE SILT FENCE LINE. IF SUCH EROSION IS OBSERVED, THE CONTRACTOR SHALL TAKE PROACTIVE ACTION TO IDENTIFY THE CAUSE OF THE EROSION AND CORRECT IT IMMEDIATELY. TYPICALLY, THIS REQUIRES THAT THE STABILIZATION MEASURES BE TAKEN TO THE DISTURBED TRIBUTARY AREA, PROPER PLACEMENT OF STAKES AND KEYING THE BOTTOM OF THE FABRIC INTO THE GROUND IS CRITICAL FOR THE FILTER'S EFFECTIVENESS. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM AND MEASURES TAKEN TO AVOID THE CONCENTRATION OF FLOWS NOT INTENDED TO BE DIRECTED TO THE SILT FENCE.

##### STRAW MULCH

STRAW MULCH INCLUDING HYDRO SEEDING IS INTENDED TO PROVIDE COVER FOR DENUDED OR SEEDED AREAS UNTIL REVEGETATION IS ESTABLISHED. MULCHING SHOULD BE OCCURRING SEVERAL TIMES PER WEEK WHEN THE SITE CONSTRUCTION ACTIVITY IS HIGH AND AT SUFFICIENT INTERVALS TO REDUCE THE PERIOD OF EXPOSURE OF BARE SOILS TO THE TIME LIMITS SET FORTH IN THIS PLAN. MULCH PLACED ON SLOPES OF LESS THAN 10 PERCENT SHALL BE ANCHORED BY APPLYING WATER; MULCH PLACED ON SLOPES STEEPER THAN 10 PERCENT SHALL BE COVERED WITH FABRIC NETTING AS IMMEDIATELY AFTER MULCHING AS PRACTICABLE AND ANCHORED WITH STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROPOSED DRAINAGE CHANNELS, WHICH ARE TO BE REVEGETATED, SHALL RECEIVE CURLEX BLANKETS BY AMERICAN EXCELSSIOR OR NORTH AMERICAN GREEN SELECTED FOR THE SLOPE, VELOCITY, AND WHETHER THE MEASURE IS TEMPORARY OR INTENDED TO BE IN PLACE FOR A SUSTAINED PERIOD. STRAW MULCH SHALL BE AVAILABLE ON SITE AT ALL TIMES IN ORDER TO PROVIDE IMMEDIATE TEMPORARY STABILIZATION WHEN NECESSARY.

##### TEMPORARY STORMWATER SETTLEMENT BASINS

TEMPORARY STORMWATER SETTLEMENT BASINS MAY BE CONSTRUCTED TO PROVIDE SEDIMENTATION CONTROL FOR STORMWATER RUNOFF FROM THE INDIVIDUAL SITE AREAS DURING CONSTRUCTION. THESE BASINS MAY BECOME NECESSARY WHERE OTHER EROSION CONTROL MEASURES ARE NOT ADEQUATE TO PREVENT OFFSITE SEDIMENTATION. THE BASIN SHOULD ONLY BE USED WHERE THERE IS SUFFICIENT SPACE AND APPROPRIATE TOPOGRAPHY. THE BASIN SHOULD BE LARGE ENOUGH TO HANDLE THE MAXIMUM AMOUNT OF EXPECTED SITE DRAINAGE. THE BASIN MAY BE CONSTRUCTED BY EXCAVATION, CONSTRUCTION OF A COMPACTED EMBANKMENT OR A COMBINATION OF BOTH. IT MAY HAVE ONE OR MORE INFLOW POINTS CARRYING POLLUTED RUNOFF. TO IMPROVE TRAP EFFICIENCY, THE BASIN SHOULD HAVE THE MAXIMUM SURFACE AREA POSSIBLE AND SEDIMENT SHOULD ENTER THE BASIN AS FAR FROM THE OUTLET AS POSSIBLE. THIS PROPOSED INFILTRATION MAY BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL FILTER FABRIC (MIRAFI 140n OR EQUAL) ON THE BOTTOM OF BASIN PRIOR TO DISCHARGE TO BASIN TO PROTECT SOILS FOR FUTURE INFILTRATION. FABRIC SHALL COVER THE ENTIRE BOTTOM AND EXTEND A MINIMUM THREE FEET UP SIDESLOPES. FABRIC SHALL REMAIN IN PLACE UNTIL SITE HAS BEEN PAVED AND/OR STABILIZED. ENGINEER SHALL INSPECT BOTTOM OF BASIN UPON REMOVAL OF FABRIC TO DETERMINE SUITABILITY OF BASIN FOR INFILTRATION.

##### STONE CHECK DAMS

A CHECK DAM IS A SMALL DAM CONSTRUCTED ACROSS A DRAINAGE DITCH, SWALE OR CHANNEL TO REDUCE THE VELOCITY OF THE SURFACE RUNOFF. REDUCED RUNOFF VELOCITY REDUCES EROSION AND GULLING IN THE CHANNEL AND ALLOWS THE SEDIMENT TO SETTLE OUT. WHERE TEMPORARY CHANNELS OR PERMANENT CHANNELS ARE NOT YET VEGETATED, CHANNEL LINING IS INFEASIBLE AND VELOCITY CHECKS ARE REQUIRED. THIS PRACTICE MAY BE USED AS A TEMPORARY OR EMERGENCY MEASURE TO LIMIT EROSION BY REDUCING FLOW IN SMALL OPEN CHANNELS.

##### STRAW BALE BARRIERS

STRAW BALE BARRIERS ARE USED SIMILARLY TO SILT FENCE SPECIFICALLY WHERE THE AREA BELOW THE BARRIER IS UNDISTURBED AND VEGETATED. STRAW BALE BARRIERS REQUIRE MORE MAINTENANCE THAN SILT FENCE BARRIERS AND PERMEABILITY THROUGH BALE BARRIERS IS SLOWER THAN SILT FENCE. STRAW BALE BARRIERS SHOULD BE LOCATED WHERE THEY WILL TRAP SEDIMENT. STRAW BALES LOCATED ALONG THE TOP OF A RIDGE SERVE NO USEFUL PURPOSE. STRAW BALE BARRIERS SHALL BE REPLACED WHEN THEY HAVE REACHED THEIR USEFUL LIFE AND THE UPSLOPE AREAS UNSTABILIZED.

##### CONSTRUCTION ENTRANCE

A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT ALL ACCESS POINTS ONTO THE SITE TO PREVENT TRACKING OF SOIL ONTO ADJACENT LOCAL ROADS. PROPOSED CONSTRUCTION ENTRANCES ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM VEHICLE TIRES BEFORE THEY ENTER THE PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD.

##### INLET PROTECTION

STORM DRAIN CATCH BASIN INLET PROTECTION SHALL BE PROVIDED THROUGH THE USE OF STONE SEDIMENT BARRIERS OR A PREMANUFACTURED SILTSACK AS DISTRIBUTED BY A.H. HARRIS OR AN EQUAL APPROVED EQUAL. THE BARRIERS SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS OR REPLACEMENT MAY BE AS NECESSARY. SEDIMENT SHALL BE REMOVED AND THE BARRIER RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER. THE BARRIER OR SILTSACK SHALL BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA HAS BEEN STABILIZED.

##### FILTER BAGS

FILTER BAGS WILL BE REQUIRED TO BE ONSITE AND AVAILABLE FOR CONSTRUCTION DEWATERING. THE USE OF FILTER BAGS SHALL BE REQUIRED IN THE EVENT THAT TRENCH DEWATERING ACTIVITIES CANNOT BE DISCHARGED THROUGH A NATURAL BUFFER AREA AT LEAST 100 FEET IN LENGTH OR AT ANY SIGNS OF ANY TURBID DISCHARGE FROM THE SITE.

##### SLOPE PROTECTION

ADDITIONAL SLOPE PROTECTION WILL BE REQUIRED IN AREAS OF STEEP SLOPES AND WHERE PROPOSED GRADES MEET EXISTING GRADES AT ACUTE ANGLES THAT COULD CAUSE GULLY EROSION. THIS PROTECTION WILL BE MAINLY IN THE FORM OF THE INSTALLATION OF EROSION CONTROL. BLANKETS IN AREAS WHERE SLOPES EXCEED 3:1, H.V. UP TO 2:1, H.V. AREAS WHERE SLOPES EXCEED 2:1, H.V. SHOULD BE STABILIZED WITH RIPRAP SLOPE PROTECTION.

##### LOAM AND SEED

LOAM AND SEED IS INTENDED TO SERVE AS THE PRIMARY PERMANENT REVEGETATIVE MEASURE FOR ALL DENUDED AREAS NOT PROVIDED WITH OTHER EROSION CONTROL MEASURES, SUCH AS RIPRAP OR PERMANENTLY COVERED WITH ROADWAY GRAVEL, PAVEMENT OR BUILDING AREA.

#### f.TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

THE FOLLOWING ARE PLANNED AS TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION:

- A CRUSHED STONE-STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT ANY CONSTRUCTION ACCESS POINTS INTO THE SITE. THE LOCATIONS OF THE CONSTRUCTION ENTRANCES SHOWN ON THE DRAWINGS SHOULD BE CONSIDERED ILLUSTRATIVE AND ADJUSTED AS APPROPRIATE AND LOCATED AT ANY AREA WHERE TRACKING OF MUD AND DEBRIS ONTO EXISTING ROADS, PREVIOUSLY PAVED AREAS WITHIN THE PROJECT, OR STREETS IS A POTENTIAL. STONE STABILIZED CONSTRUCTION ENTRANCES WILL REQUIRE THE STONE TO BE REMOVED AND REPLACED AS IT BECOMES COVERED OR FILLED WITH MUD AND MATERIAL TRACKED BY VEHICLES EXITING THE SITE.
- SILTATION FENCE OR AN EQUIVALENT SEDIMENT BARRIER SHALL BE INSTALLED ALONG THE DOWNWARDING SIDE OF THE PROPOSED IMPROVEMENT AREAS. THE SILTATION FENCE WILL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL THE SITE IS ACCEPTABLY REVEGETATED. SILTATION FENCE IS TO BE USED ALONG THE CONTOUR OF SIGNIFICANT FILL SLOPES AS ILLUSTRATED ON THE EROSION CONTROL PLAN SITE DRAWINGS. SILTATION FENCE NEEDS TO BE CHECKED TO INSURE THE BOTTOM IS PROPERLY KEPT IN AND INSPECTED AFTER SIGNIFICANT RAINS. WOOD CHIPS FROM CLEARING ARE OFTEN USED ON THE CONSTRUCTION SITE IN FRONT OF THE SILT FENCE TO PROVIDE AN EXTRA MARGIN OF SAFETY AND SECURITY FOR THE SILT FENCE. THIS PRACTICE IS ENCOURAGED, PROVIDED THE CHIPS ARE REMOVED OR DISPERSED INTO FORESTED AREAS WHEN THE FENCE IS REMOVED.
- FILTER BAGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS IN THE PLAN SET. THE FILTER BAG'S FUNCTION ON THE PROJECT IS TO RECEIVE ANY WATER PUMPED FROM EXCAVATIONS DURING CONSTRUCTION. A FILTER BAG SHALL BE INSTALLED AND PREPARED FOR OPERATION PRIOR TO ANY TRENCHING ON SITE. WHEN FILTER BAGS ARE OBSERVED TO BE AT 50% CAPACITY, THEY SHALL BE CLEANED OR REPLACED. STONE UNDER THE FILTER BAGS SHALL BE REMOVED AND REPLACED CONCURRENTLY.
- TEMPORARY STOCKPILES OF COMMON EXCAVATION WILL BE PROTECTED AS FOLLOWS:
  - TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN 100 FEET OF CRITICAL AREAS AND AT LEAST 50 FEET UPGRADEND OF THE PERIMETER SILT FENCE.
  - INACTIVE STOCKPILES SHALL BE STABILIZED WITHIN 5 DAYS BY EITHER TEMPORARILY SEEDING THE STOCKPILE WITH A HYDRO SEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH. IF NECESSARY, MESH SHALL BE INSTALLED TO PREVENT WIND FROM REMOVING THE MULCH.

• OPEN AREAS OF THE SITE SHALL BE LIMITED TO 5 ACRES. ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED SHALL RECEIVE MULCH OR EROSION CONTROL MESH FABRIC WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOIL. DISTURBED AREAS WITHIN 75' OF CRITICAL AREAS MUST RECEIVE TEMPORARY EROSION CONTROL MEASURES WITHIN 48 HOURS.

• BETWEEN NOVEMBER 1 AND APRIL 1, OPEN AREA SHALL BE LIMITED TO THREE ACRES, AND DISTURBED SOIL SHALL BE COVERED WITH MULCH WITHIN 5 DAYS OF DISTURBANCE. PRIOR TO ANY PREDICTED STORM EVENT, OF THE EQUIVALENT OF 1/2" OF EQUIVALENT RAINFALL IN A 24-HOUR PERIOD, OR PRIOR TO ANY WORK SHUTDOWN LASTING MORE THAN 48 HOURS (INCLUDING WEEKENDS AND HOLIDAYS), THE MULCH RATE SHALL BE DOUBLE THE NORMAL RATE.

•• FOR WORK THAT IS CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 15 OF ANY CALENDAR YEAR, ALL DENUDED AREAS WILL BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND (IN AREAS OVER 10% GRADE) ANCHORED WITH A FABRIC NETTING. THE TIME PERIOD FOR APPLYING MULCH SHALL BE LIMITED TO 5 DAYS FOR ALL AREAS OR IMMEDIATELY IN ADVANCE OF A PREDICTED RAINFALL EVENT.

• THE PAVED ACCESS ROADS SHALL BE SWEEP TO CONTROL MUD AND DUST AS NECESSARY. A STREET SWEEPER SHALL BE AVAILABLE FROM THE CONTRACTOR ON IMMEDIATE NOTICE OR AS REQUESTED BY THE OWNER OR REGULATORY AGENCY.

• STONE CHECK DAMS OR HAY BALE BARRIERS WILL BE INSTALLED AT ANY EVIDENT CONCENTRATED FLOW DISCHARGE POINTS DURING CONSTRUCTION AND EARTHWORK OPERATIONS.

• SILT FENCING WITH A MAXIMUM STAKE SPACING OF 8 FEET SHOULD BE USED, UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT OF MINIMUM 14 GAUGE AND WITH A MAXIMUM MESH SPACING OF 6 INCHES, IN WHICH CASE STAKES MAY BE SPACED A MAXIMUM OF 10 FEET APART. THE BOTTOM OF THE FENCE SHOULD BE PROPERLY ANCHORED A MINIMUM OF 6" PER THE PLAN DETAIL AND BACKFILLED. ANY SILT FENCE IDENTIFIED BY THE OWNER OR REVIEWING AGENCIES AS NOT BEING PROPERLY INSTALLED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH THE INSTALLATION DETAILS.

• STORM DRAIN CATCH BASIN INLET PROTECTION SHALL BE PROVIDED THROUGH THE USE OF STONE SEDIMENT BARRIERS OR A PREMANUFACTURED SILTSACK\* AS DISTRIBUTED BY A.H. HARRIS COMPANY, PORTLAND, MAINE. STONE SEDIMENT BARRIER INSTALLATION DETAILS ARE PROVIDED IN THE PLAN SET. THE BARRIERS OR SILTSACKS\* SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS MADE AS NECESSARY, INCLUDING THE REMOVAL OF SEDIMENT. SEDIMENT SHALL BE REMOVED AND THE BARRIER OR SILTSACK\* RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER. INLET PROTECTION SHALL BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA HAS BEEN STABILIZED.

- ALL SLOPES STEEPER THAN 3:1 SHALL RECEIVE EROSION CONTROL MESH.
- ALL AREAS WHICH FEATURE NARROW ANGLES OF SLOPE INTERFACE BETWEEN PROPOSED SURFACES AND EXISTING SURFACES SHALL RECEIVE EROSION CONTROL MESH TO PREVENT SCOURING.
- ADDITIONAL SILTATION FENCES OR SEDIMENT BARRIERS SHALL BE INSTALLED AS CONSTRUCTION PROGRESSES.
- AREAS OF VISIBLE EROSION SHALL BE STABILIZED WITH CRUSHED STONE OR EQUIVALENT MEASURES.

#### g.STANDARDS FOR STABILIZING SITES FOR WINTER CONDITIONS

THE CONSTRUCTION OF THE PROJECT WILL EXTEND INTO THE WINTER SEASON. THE CONTRACTOR SHALL SCHEDULE WORK TO AVOID CONSTRUCTION OF STORMWATER BASINS DURING THE WINTER MONTHS. FOR PERMITTED WINTER CONSTRUCTION, THE EROSION CONTROL MEASURES ARE SUBSTANTIALLY MORE STRINGENT DUE TO COLD TEMPERATURES AND LACK OF MOISTURE WHICH AIDS IN DRYING THE SUBGRADE WHICH THROUGH EVAPORATION.

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 15<sup>TH</sup> THROUGH MARCH 15<sup>TH</sup>. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, AGGREGATE SUBBASE GRAVEL, 90% MATURE VEGETATION COVER OR RIPRAP PRIOR TO NOVEMBER 15<sup>TH</sup>, THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED "ST" IS ANY AREA THAT IS NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR SUBBASE GRAVEL.

DURING THE WINTER CONSTRUCTION PERIOD THE CONTRACTOR SHALL INSTALL EROSION CONTROL MIX BERMS IN LIEU OF SILT FENCE.

DURING THE WINTER CONSTRUCTION PERIOD, A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY DRAINAGE PATH AND THE DISTURBED AREA.

IN ADDITION, DURING THE WINTER CONSTRUCTION PERIOD THE AMOUNT OF EXPOSED AREA SHALL BE LIMITED TO THAT WHICH CAN BE MULCHED WITHIN ONE DAY IN THE EVENT OF A PREDICTED STORM AND SHALL NOT EXCEED A MAXIMUM OPEN AREA OF ONE ACRE.

STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15<sup>TH</sup>. THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL GRASS LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 1<sup>ST</sup>. IF THE CONTRACTOR FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS LINED BY SEPTEMBER 1<sup>ST</sup>, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS: 1) STABILIZE THE DITCH FOR LATE FALL AND WINTER.

i. INSTALL A SOD LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1<sup>ST</sup>. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD STRIPS FROM SLOUGHING DURING FLOW CONDITIONS.

ii. INSTALL A STONE LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 1<sup>ST</sup>. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE CONTRACTOR SHALL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO AS TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS SECTIONAL AREA.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE STONE COVERED SLOPES BY NOVEMBER 15<sup>TH</sup>. THE CONTRACTOR SHALL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 1<sup>ST</sup>. A SLOPE IS CONSIDERED ANY AREA HAVING A GRADE OF GREATER THAN 15% (10H:1V). IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15<sup>TH</sup>, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER:

i. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MESH. BY OCTOBER 1ST THE CONTRACTOR SHALL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR SHALL MONITOR GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE DOES NOT GROW AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 15TH, THEN THE CONTRACTOR SHALL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM III OF THIS STANDARD OR WITH STONE RIP RAP AS DESCRIBED IN ITEM IV OF THIS STANDARD.

ii. STABILIZE THE SLOPE WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR SHALL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H: 1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

iii. STABILIZE THE SLOPE WITH WOOD WASTE COMPOST. THE CONTRACTOR SHALL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15TH. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR SHALL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H: 1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

iv. STABILIZE THE SLOPE WITH STONE RIPRAP. THE CONTRACTOR SHALL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15TH. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOIL: BY SEPTEMBER 15TH, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

i. STABILIZE THE SOIL WITH TEMPORARY VEGETATION. BY OCTOBER 1ST, THE CONTRACTOR SHALL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1,000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR SHALL MONITOR THE GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1ST, THEN THE CONTRACTOR SHALL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM II OF THIS STANDARD.

ii. STABILIZE THE SOIL WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

iii. STABILIZE THE SOIL WITH MULCH. BY NOVEMBER 15TH, THE CONTRACTOR SHALL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1,000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR SHALL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

STANDARD FOR TIMELY STABILIZATION OF SOIL STOCKPILES: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL APPLICATION RATE OR WITH A FOUR-INCH THICK LAYER OF EROSION CONTROL MIX. THIS WILL BE COMPLETED WITHIN 24-HOURS OF STOCKPILING OR RE-ESTABLISHMENT PRIOR TO ANY PREDICTED RAINFALL OR SNOWFALL. EVEN IF ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM A NATURAL RESOURCE (I.E. WETLAND, ETC.).

#### h.SPECIAL MEASURES FOR SUMMER CONDITIONS

THE SUMMER PERIOD IS GENERALLY OPTIMUM FOR CONSTRUCTION FOR THIS SITE BUT IT IS ALSO THE PERIOD WHERE

INTENSE SHORT DURATION STORMS ARE MOST COMMON MAKING DENUDED AREAS VERY SUSCEPTIBLE TO EROSION, WHERE DUST CONTROL NEEDS TO BE THE MOST STRINGENT, AND WHERE THE POTENTIAL TO ESTABLISH VEGETATION IS OFTEN RESTRICTED BY MOISTURE DEFICIT. DURING THESE PERIODS THE CONTRACTOR MUST:

• IMPLEMENT A PROGRAM TO APPLY DUST CONTROL MEASURES ON A DAILY BASIS EXCEPT THOSE DAYS WHERE THE PRECIPITATION EXCEEDS 0.25 INCHES;

• SPRAY THE MULCH AFTER ANCHORING WITH WATER TO DAMPEN THE SOIL AND ENCOURAGE EARLY GROWTH. TEMPORARY SEED MAY BE REQUIRED UNTIL THE LATE SUMMER SEEDING SEASON.

• MULCH, COVER, AND MOISTEN STOCKPILES OF FINE-GRAINED MATERIALS THAT ARE SUSCEPTIBLE TO EROSION.

• TAKE ADDITIONAL STEPS NEEDED TO CONTROL FUGITIVE DUST EMISSIONS TO MINIMIZE REDUCTIONS IN VISIBILITY AND THE AIRBORNE DISBURSEMENT OF FINE-GRAINED SOILS. THESE MEASURES MAY ALSO BE REQUIRED IN THE SPRING AND FALL DURING THE DRIER PERIODS OF THESE SEASONS.

#### i. PERMANENT EROSION CONTROL MEASURES

THE FOLLOWING PERMANENT EROSION CONTROL MEASURES HAVE BEEN DESIGNED AS PART OF THE EROSION AND SEDIMENTATION CONTROL PLAN:

• THE DRAINAGE CONVEYANCE SYSTEMS HAVE BEEN DESIGNED TO INTERCEPT AND CONVEY THE 25-YEAR STORM. IN THE CASE OF OPEN CHANNELS OR SWALES, THIS INCLUDES THE DESIGN OF MEASURES TO RESIST SCOUR OF THE CHANNEL.

• ALL STORM DRAIN PIPES SHALL HAVE RIPRAP APRONS AT THEIR OUTLET TO PROTECT THE OUTLET AND RECEIVING CHANNEL OF THE CULVERTS FROM SCOUR AND DETERIORATION. INSTALLATION DETAILS ARE PROVIDED IN THE PLAN SET. THE APRONS SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUNOFF TO THE TRIBUTARY PIPE OR CULVERT.

• ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.) WILL BE LOAMED, LIMED, FERTILIZED, MULCHED, AND SEEDED. FABRIC NETTING, ANCHORED WITH STAPLES, SHALL BE PLACED OVER THE MULCH IN AREAS WHERE THE FINISH GRADE SLOPE IS GREATER THAN 10 PERCENT. NATIVE TOPSOIL SHALL BE STOCKPILED AND TEMPORARILY STABILIZED WITH SEED AND MULCH AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.

• CATCH BASINS SHALL BE PROVIDED WITH SEDIMENT SUMP FOR ALL OUTLET PIPES THAT ARE 12" IN DIAMETER OR GREATER.

#### j. TIMING AND SEQUENCE OF THE EROSION CONTROL MEASURES

THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPTIMIZED.

NOTE: FOR ALL GRADING ACTIVITIES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO OVEREXPOSE THE SITE BY LIMITING THE DISTURBED AREA AND SHALL STABILIZE ANY STEEP SLOPES WITHIN 24 HOURS IF FINAL SLOPE GRADING AND STABILIZATION WILL NOT BE COMPLETED WITHIN 7 DAYS. ANY FINAL SLOPES SHALL HAVE THE SPECIFIED EROSION CONTROL MEASURES INSTALLED WITHIN 7 DAYS OF FINAL STABILIZATION.

• INSTALL CRUSHED STONE-STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.

• MARK THE GRADING AND CLEARING LIMITS AND INITIATE CLEARING THAT WILL PERMIT THE CONTRACTOR TO ACCESS THE SITE AND INSTALL SILT FENCE.

• INSTALL SILTATION FENCE WHERE SHOWN ON THE CONTRACT DRAWINGS. DURING PERIODS OF NOVEMBER 1<sup>ST</sup> THROUGH APRIL 15<sup>TH</sup>, THE CONTRACTOR SHALL INSTALL EROSION CONTROL MIX BERMS IN LIEU OF SILT FENCE.

• ESTABLISH AND PREPARE FILTER BAG AREAS.

• SHAPE THE SUBGRADE OF THE PROPOSED INFILTRATION AREAS FOR THE PORTIONS OF THE SITE THAT ARE UNDER CONSTRUCTION.

• CONSTRUCT DIVERSION AND DRAINAGE CHANNELS TO DIRECT FLOW TO THE STORMWATER FACILITIES FROM THE LOT DEVELOPMENT AND ROADWAY AREAS.

• PREPARE AREA TO RECEIVE EXCAVATED MATERIAL RECOGNIZING THE NEED TO LIMIT THE DENUDED AREA OF THE SITE.

• BEGIN EARTHWORK AND DEMOLITION WITHIN THE BUILDING PAD AREAS.

• CONSTRUCT THE DISTURBED AREAS TO SUBGRADE AND RESTORE THE SLOPES.

• INSTALL STONE AND HAY BALE CHECK DAMS AT ANY CONCENTRATED FLOW DISCHARGE POINTS.

• INSTALL STORM DRAIN AND OTHER UTILITY WORK. INSTALL INLET AND OUTLET PROTECTION IMMEDIATELY AFTER THE INSTALLATION OF ANY CULVERTS. PUMP ANY ACCUMULATED WATER WITHIN THE TRENCHES TO A FILTER BAG.

• PLACE GRAVELS IN THE PAVED AREAS AS SOON AS SUBGRADE IS PREPARED TO MINIMIZE THE PERIOD THAT THE UNPROTECTED SUBGRADE IS EXPOSED AND VULNERABLE TO EROSION FROM RUNOFF EVENTS.

• RAISE CATCH BASINS TO GRADE AND INSTALL INLET PROTECTION DEVICES, THE SILTSACK\* INSIDE THE BASIN, AND THE EXTERNAL HAY BALES OR STONE FILTER (IF APPLICABLE).

• INSTALL BINDER PAVEMENT.

• LOAM, LIME, FERTILIZE, SEED AND MULCH ALL DISTURBED AND DENUDED AREAS.

• REMOVE ALL ACCUMULATED SEDIMENT FROM SILT BARRIERS.

• REVIEW STABILITY OF THE SITE. REMOVAL OF EROSION CONTROL MEASURES SHALL BE PERFORMED WITHIN 30 DAYS OF ESTABLISHING PERMANENT STABILIZATION. PERMANENT STABILIZATION IN GRASSED AREAS IS ESTABLISHED WITH 90% CATCH OF GRASS WITH NO EVIDENCE OF RILLING OR EROSION.

THIS SEQUENCE IS APPLICABLE TO ALL PHASES OF THE PROJECT.

SOIL WILL BE CONSIDERED DISTURBED IF IT DOES NOT HAVE AN ESTABLISHED STAND OF VEGETATION COVERING AT LEAST 90% OF THE SOIL SURFACE OR HAS NOT BEEN MULCHED WITH HAY APPLIED AT A RATE OF 230 LB./1,000 SQ. FT.

#### k.PROVISIONS FOR MAINTENANCE OF THE EROSION CONTROL MEASURES

THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF A US EPA NPDES PERMIT AND AN ACCOMPANYING STORMWATER POLLUTION PREVENTION PLAN (SWPPP.) THESE DOCUMENTS REQUIRE THE CONTRACTOR TO PREPARE A LIST AND DESIGNATE BY NAME, ADDRESS AND TELEPHONE NUMBER ALL INDIVIDUALS WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION, INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IDENTIFIED WITHIN THIS SECTION AND AS CONTAINED WITHIN THE CONTRACT DRAWINGS. SPECIFIC RESPONSIBILITIES OF THE INSPECTOR(S) WILL INCLUDE, BUT NOT BE LIMITED TO:

• EXECUTION OF THE CONTRACTOR/SUBCONTRACTOR CERTIFICATION BY ANY AND ALL PARTIES RESPONSIBLE FOR EROSION CONTROL MEASURES ON THE SITE AS REQUIRED BY THE SWPPP.

• ASSURING AND CERTIFYING THE OWNER'S CONSTRUCTION SEQUENCE IS IN CONFORMANCE WITH THE SPECIFIED SCHEDULE OF THIS SECTION. A WEEKLY CERTIFICATION STATING COMPLIANCE, ANY DEVIATIONS, AND CORRECTIVE MEASURES NECESSARY TO COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF THIS SECTION SHALL BE PREPARED AND SIGNED BY THE INSPECTOR(S).

• IN ADDITION TO THE WEEKLY CERTIFICATIONS, THE INSPECTOR(S) SHALL MAINTAIN WRITTEN REPORTS RECORDING CONSTRUCTION ACTIVITIES ON SITE WHICH INCLUDE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA, DATES WHEN MAJOR CONSTRUCTION ACTIVITIES CEASE IN A PARTICULAR AREA, EITHER TEMPORARY OR PERMANENT, DATES WHEN AN AREA IS STABILIZED.

• INSPECTION OF THE PROJECT WORK SITE AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS AND BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.25 INCHES OR MORE IN ANY 24-HOUR PERIOD) DURING CONSTRUCTION UNTIL PERMANENT EROSION CONTROL MEASURES HAVE BEEN PROPERLY INSTALLED AND THE SITE HAS BEEN STABILIZED. INSPECTION OF THE PROJECT WORK SITE SHALL INCLUDE:

A. IDENTIFICATION OF PROPER EROSION CONTROL MEASURE INSTALLATION IN ACCORDANCE WITH THE EROSION CONTROL DETAIL SHEET OR AS SPECIFIED IN THIS SECTION.

B. DETERMINE WHETHER EACH EROSION CONTROL MEASURE IS PROPERLY OPERATING. IF NOT, IDENTIFY DAMAGE TO THE CONTROL DEVICE AND DETERMINE REMEDIAL MEASURES.

C. IDENTIFY AREAS THAT APPEAR VULNERABLE TO EROSION AND DETERMINE ADDITIONAL EROSION CONTROL MEASURES THAT SHOULD BE USED TO IMPROVE CONDITIONS.

D. INSPECT AREAS OF RECENT SEEDING TO DETERMINE PERCENT CATCH OF GRASS. A MINIMUM CATCH OF 90 PERCENT IS REQUIRED PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

E. RECORD DATE OF INSTALLATION OF SORBENT BAGS IN CATCH BASINS, DATES OF PAVING (IF APPLICABLE), DATES

REMOVED, AND THE DISPOSAL METHOD AND LOCATION.

• IF INSPECTION OF THE SITE INDICATES A CHANGE SHOULD BE MADE TO THE EROSION CONTROL PLAN, EITHER TO IMPROVE EFFECTIVENESS OR CORRECT A SITE-SPECIFIC DEFICIENCY, THE INSPECTOR SHALL IMMEDIATELY IMPLEMENT THE CORRECTIVE MEASURE AND NOTIFY THE OWNER OF THE CHANGE.

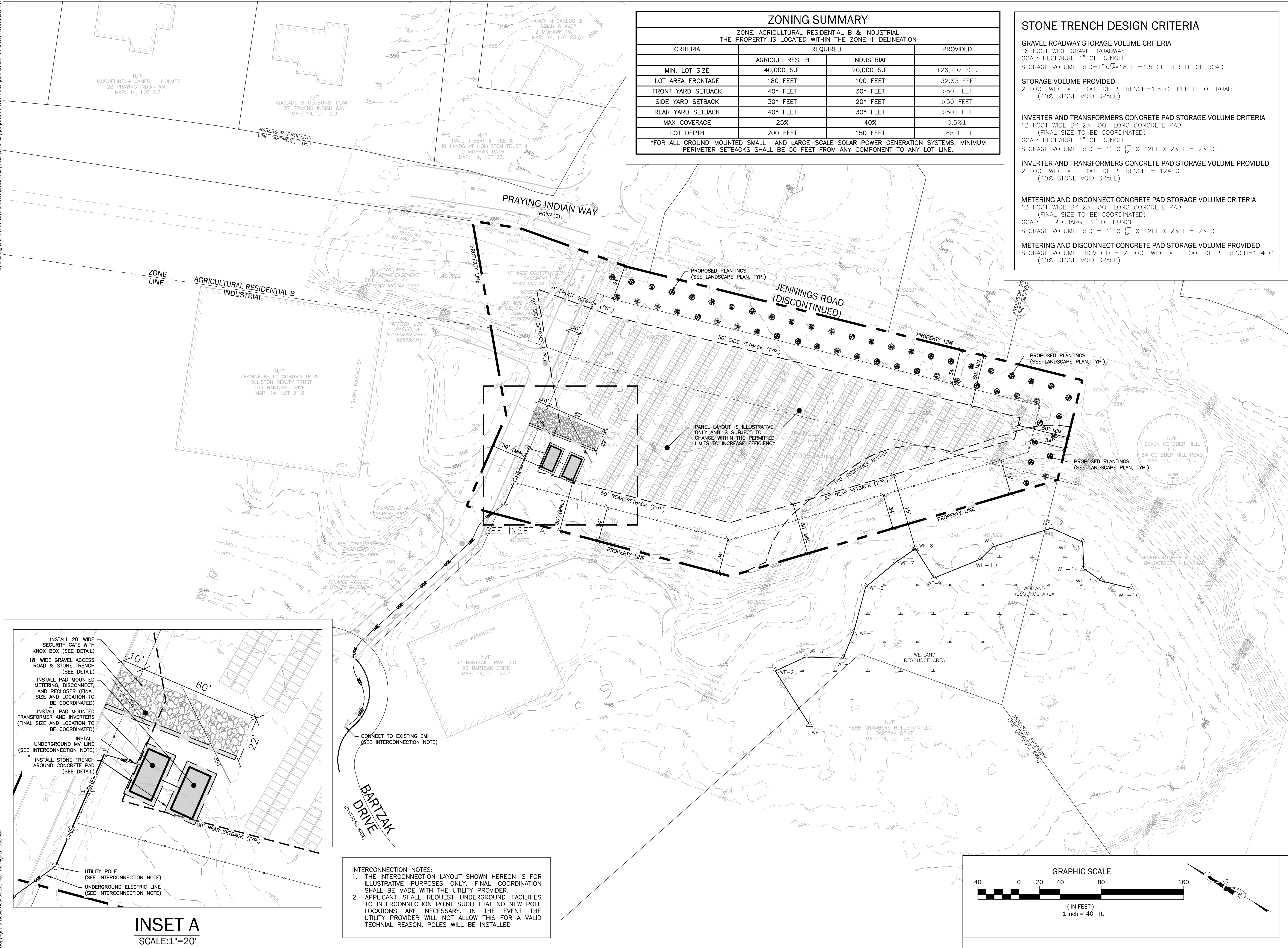
ONCE CONSTRUCTION HAS BEEN COMPLETED, LONG TERM MAINTENANCE OF THE FACILITIES WILL BE THE RESPONSIBILITY OF THE APPLICANT.

#### l. PRECONSTRUCTION CONFERENCE

PRIOR TO ANY CONSTRUCTION AT THE SITE, REPRESENTATIVES OF THE CONTRACTOR, TOWN OFFICIALS, AND THE SITE DESIGN ENGINEER SHALL ARRANGE FOR AND MEET WITH THE OWNER TO DISCUSS THE SCHEDULING OF THE SITE CONSTRUCTION, AND THE DESIGNATION OF THE RESPONSIBLE PARTIES FOR IMPLEMENTING THE PLAN. THIS MEETING SHALL BE SCHEDULED BY THE CONTRACTOR WITH REASONABLE ADVANCE NOTICE FOR ALL ATTENDEES. PRIOR TO THE MEETING THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND A MARKED-UP SITE PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. IF BID THROUGH A GENERAL CONTRACTOR, THE GENERAL CONTRACTOR'S SUPERINTENDENT SHALL PROVIDE A WRITTEN ACKNOWLEDGEMENT THAT THE EROSION CONTROL PLAN HAS DEFINITIVE DATES FOR IMPLEMENTATION THAT MAY SUPERSEDE THE BUILDING SCHEDULE. THE CONTRACTOR SHALL CONDUCT A MEETING WITH EMPLOYEES AND SUB-CONTRACTORS TO REVIEW THE EROSION CONTROL PLAN, THE CONSTRUCTION TECHNIQUES WHICH WILL BE EMPLOYED TO IMPLEMENT THE PLAN, AND PROVIDE A LIST OF ATTENDEES AND ITEMS DISCUSSED AT THE MEETING TO THE OWNER. THREE COPIES OF THE SCHEDULE, THE CONTRACTOR'S MEETING MINUTES, AND MARKED-UP SITE PLAN SHALL BE PROVIDED TO THE OWNER AT THE PRECONSTRUCTION MEETING.

#### m. TEMPORARY SEDIMENT BASINS

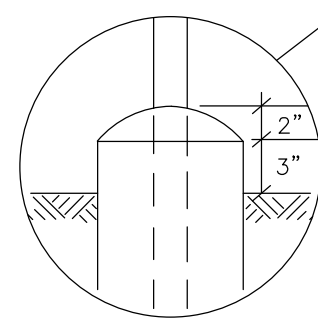












N.T.S.



N.T.S.



N.T.S.



- NOTE:  
FINAL CONCRETE PAD DETAIL SHALL BE PROVIDED  
BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

N.T.S.



N.T.S



- N.T.S.



N.T.S.



N.T.S.



N.T.S.

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Designed by: DPH	Checked by: TPM
Proj. No.: C-1278	Issue Date: 07.27.22
Drawing Scale: N.T.S	

Sheet Number

# C200





1. USE WOOD POSTS  $1\frac{1}{2}$  X  $1\frac{1}{2}$  X  $\frac{3}{8}$  INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POSTS USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 48 INCH MINIMUM POSTS DRIVEN 18 INCH MINIMUM INTO GROUND NO MORE THAN 8 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
5. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
6. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT; REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

N.T.S.



## NTS



1. EXCAVATE A 4 INCH DR TRENCH THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER. THE BARRIER SHOULD FOLLOW THE SLOPE CONTOUR. IF THE BARRIER IS AT THE TOE OF THE SLOPE, PLACE IT AT THE TOE OF THE SLOPE. THE TRENCH SHOULD BE DEEP ENOUGH TO HOLD THE BALE IN PLACE. MAINTENANCE AND ALLOW COURSE SEDIMENT TO DROP OUT OF SUSPENSION BEFORE IT REACHES THE BARRIER.
2. PLACE BALES IN THE TRENCH WITH THEIR ENDS TIGHTLY ABUTTING. CORNER ABUTMENT IS NOT ACCEPTABLE. A TIGHT FIT IS IMPORTANT TO PREVENT SEDIMENT FROM ESCAPING THROUGH THE SPACES BETWEEN BALES.
3. ALL BALES MUST BE EITHER WIRE-BOUND OR STRING TIED. INSTALL BALES SO THAT BINDINGS ARE ORIENTED ALONG THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. IF THE BINDING IS PLACED IN CONTACT WITH THE SOIL, IT WILL SOON DISINTEGRATE AND CAUSE THE BALE TO FALL APART.
4. SECURELY ANCHOR EACH BALE BY DRIVING AT LEAST TWO STAKES THROUGH THE BALE. DRIVE THE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. DRIVE THE STAKES TO AT LEAST 12 INCHES INTO THE GROUND. WOOD STAKES 2 BY 2 INCHES BY 4 FT. ARE BEST. REBAR ALSO CAN BE USED AS STAKES, BUT THEY ARE NOT RECOMMENDED BECAUSE THEY CAN POSE A HAZARD TO EQUIPMENT WHEN BALES DISINTEGRATE.
5. FILL ANY GAPS BETWEEN BALES BY WEDGING LOOSE STRAW BETWEEN THE BALES. LOOSE STRAW SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A STRAW BALE BARRIER TENDS TO INCREASE BARRIER EFFECTIVENESS. THE STRAW SHOULD BE PLACED IN THE TRENCHES AND THE TRENCHES SHOULD BE SEAL. BACKFILL THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT IT. THE BACKFILL SOIL SHOULD CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE OF THE BARRIER AND SHOULD BE BUILT UP TO 4 INCHES ABOVE THE GROUND ON THE UPHILL SIDE OF THE BALES.
6. INSPECT AND REPAIR OR REPLACE DAMAGED BALES PROMPTLY. STRAW BALES TYPICALLY DETERIORATE WITHIN THREE MONTHS WHEN WET. REMOVE THE STRAW BALES WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

## NTS



N.T.S.



## NTS



## NTS



