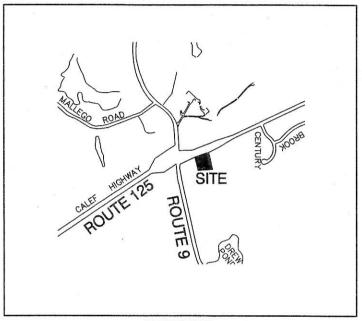
PROPOSED SITE PLAN "TROPIC STAR CONVENIENCE"

TAX MAP 238, LOT 4 ROUTE 125, BARRINGTON, NH



LOCUS MAP SCALE 1" = 2000'

SHEET INDEX

COVER SHEET

EXISTING CONDITIONS PLAN C1

OVERALL VICINITY PLAN

SITE PLAN C3

HA1

E1

GRADING AND DRAINAGE PLAN

HIGHWAY ACCESS PLAN - PHASE 1

HIGHWAY ACCESS PLAN - PHASE 2 HA2

HX1-HX3 CROSS SECTION PLANS

DRIVEWAY MARKING PLAN

LIGHTING PLAN

LANDSCAPE NOTES AND LEGEND L2.0

LANDSCAPE PLAN LANDSCAPE DETAILS L4.0

LANDSCAPE DETAILS L4.1

LANDSCAPE SPECS L5.0

S1 EFFLUENT DISPOSAL DESIGN

DETAIL SHEETS D1-D4

EROSION AND SEDIMENT CONTROL DETAILS

ARCHITECTURAL RENDERING

APPLICANT / DEVELOPER

THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD HAMPTON, NH 03842 (603) 926-7770 Contact: JAMES MITCHELL

CIVIL ENGINEER / SURVEYOR

JONES & BEACH ENGINEERS, INC. **85 PORTSMOUTH AVENUE** PO BOX 219 STRATHAM, NH 03885 (603) 772-4746 Contact: WAYNE MORRILL Email: wmorrill@jonesandbeach.com

TRAFFIC ENGINEER STEVEN G. PERNAW & CO., INC.

P.O. BOX 1721 CONCORD, NH 03302

LANDSCAPE DESIGNER

HOWARD SNYDER, RLA **26B STRONG STREET** NEWBURYPORT, MA 01950 Contact: HOWARD SNYDER (978) 764-6155

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 74 OLD DOVER ROAD ROCHESTER, NH 03867 (603) 332-4227

TELEPHONE

VERIZON 237 DANIEL WEBSTER HWY, FLOOR 2 MERRIMACK, NH 03054 (603) 743-1114

CABLE TV

COMCAST COMMUNICATION CORPORATION 334-B CALEF HIGHWAY EPPING, NH 03042-2325 (603) 679-5695

PERMITS

LIMITO	
TYPE OF PERMIT	STATUS
NHDOT DRIVEWAY PERMIT:	SUBMITTED:
NEW HAMPSHIRE DEPARTMENT OF	12/13/11
TRANSPORTATION, DISTRICT SIX	PERMIT NO.
P.O. BOX 740	06-027-510
DURHAM, NEW HAMPSHIRE 03824	DATED:
(603) 868-1133	8/2/2013
RESPONSIBLE CONSULTANT-	EXPIRATION:
JONES & BEACH ENGINEERS, INC.	8/2/2014
NHDES INDIVIDUAL SEWAGE DISPOSAL SYSTEM:	SUBMITTED:
NEW HAMPSHIRE DEPARTMENT OF	1/17/12
ENVIRONMENTAL SERVICES	PERMIT NO.
P.O. BOX 95, 29 HAZEN DRIVE	CA2012107613
CONCORD, NEW HAMPSHIRE 03302	DATED:
	2/21/12
RESPONSIBLE CONSULTANT-	EXPIRATION:
JONES & BEACH ENGINEERS, INC.	2/12/16

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT, NOTICE OF INTENT (NOI), AND NOTICE OF TERMINATION LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION MAIL CODE 4203M.

1200 PENNSYI VANIA AVENIJE NW WASHINGTON, DC 20460 RESPONSIBLE CONSULTANT

060606

GENERAL LEGEND

0 0 0

DESCRIPTION PROPERTY LINES SETBACK LINES

STONEWALL BARBED WIRE FENCE

STOCKADE FENCE STOCKADE FENCE
EASEMENT
MAJOR CONTOUR
MINOR CONTOUR
EDGE OF PAVEMENT
VERTICAL GRANITE CURB

VERTICAL GRANITE CURB
SLOPE GRANITE CURB
MONOLITHIC CONCRETE CURB
POURED CONCRETE CURB
SILT FENCE
DRAINAGE LINE
SEWER LINE

DRILL HOLE
IRON ROD/DRILL HOLE
STONE/GRANITE BOUND

SPOT GRADE PAVEMENT SPOT GRADE

CURB SPOT GRADE

BENCHMARK (TBM) DOUBLE POST SIGN SINGLE POST SIGN

UTILITY POLE
LIGHT POLES
DRAIN MANHOLE
SEWER MANHOLE
HYDRANT
WATER GATE
WATER SHUT OFF

REDUCER SINGLE GRATE CATCH BASIN DOUBLE GRATE CATCH BASIN

RIPRAP FRESHWATER WETLANDS

DOUBLE GRAIL CAICH BASIN
TRANSFORMER
CULVERT W/MNGWALLS
CULVERT W/FLARED END SECTION
CULVERT W/STRAIGHT HEADWALL
STONE CHECK DAM
DRAINAGE FLOW DIRECTION

WELL TEST PIT PERC TEST

FXISTING

-- -- 100-- -----98---

> × 100.00 100.00 TC

LAND USE OFFICE

JAN 28 2014 RECEIVED

NOTES:

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676;13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECIED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. 5. IN ACCORDANCE WITH BARRINGTON SITE PLAN REVIEW REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECIED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 6. A WAIVER TO SECTION 4.8.2.3 DRIVEWAYS OF THE SITE PLAN REGULATIONS HAS BEEN GRANTED TO THIS PROJECT TO ALLOW THE CONSTRUCTION OF A ONE-WAY ENTRANCE DRIVEWAY WITHIN 150' OF THE DRIVEWAY ACCESS TO BARRINGTON TAX MAP 238 1 LOT 5.

STABILIZED CONSTRUCTION ENTRANCE

GRAVEL

SNOW STORAGE

PROJECT PARCEL TAX MAP 238, LOT 4

APPLICANT THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD HAMPTON, NH 03842 BOOK 3937, PAGE 0522

TOTAL LOT AREA 80,273.55 SQ. FT.

PLANNING BOARD APPROVAL BLOCK

Design: WGM Draft: GPC Date: 01/03/12
Checked: WGM Scale: AS NOTED Project No.:10144
Drawing Name: 10144-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN

PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS ALTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



16	1/28/14	REVISED PER TOWN COMMENTS	BWG
15	12/18/13	REVISED PER TOWN REVIEW	BWG
14	11/19/13	REVISED PER TOWN REVIEW	BWG
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
REV.	DATE	REVISION	BY

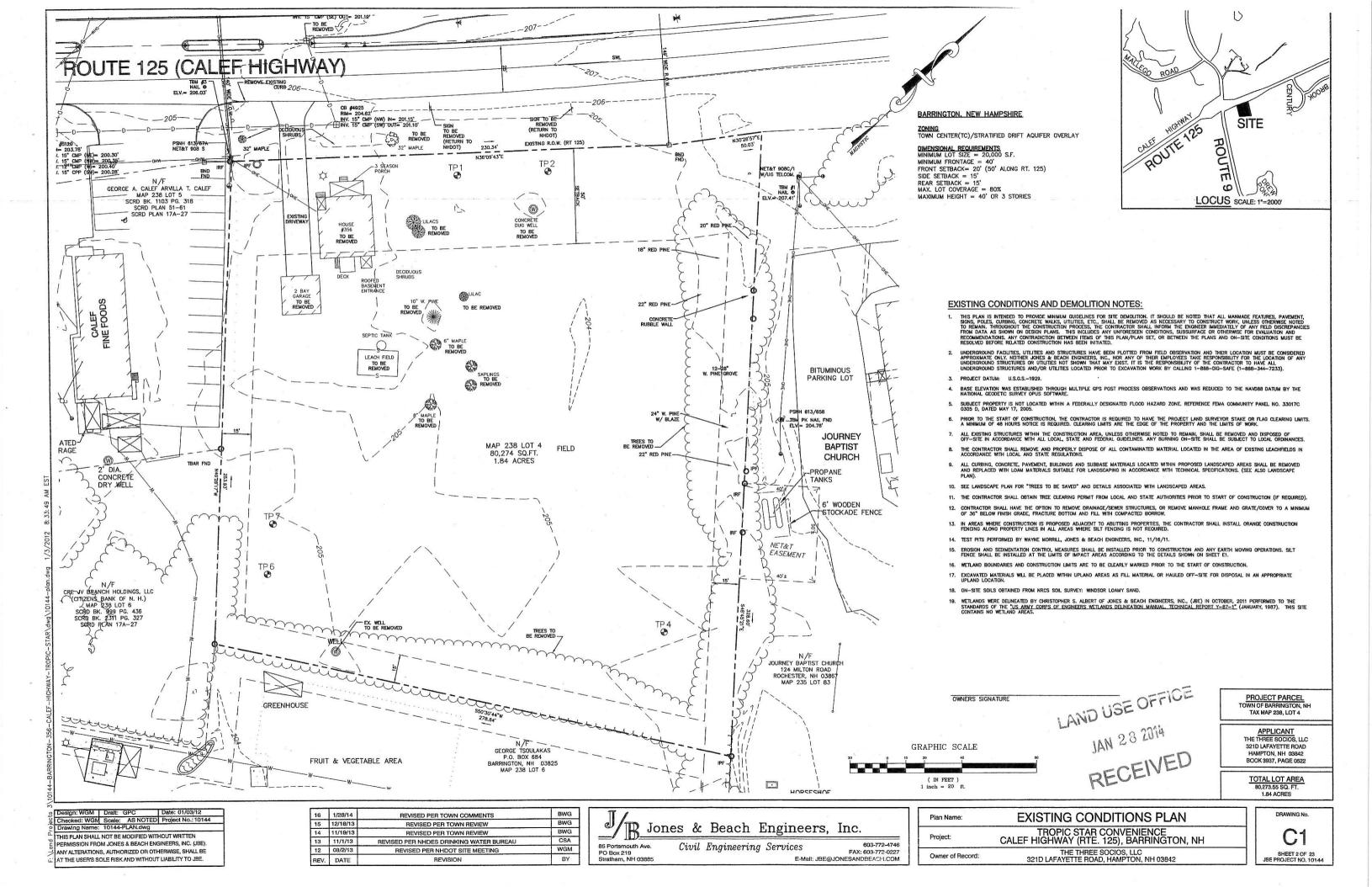
Jones & Beach Engineers, Inc. Civil Engineering Services PO Box 219

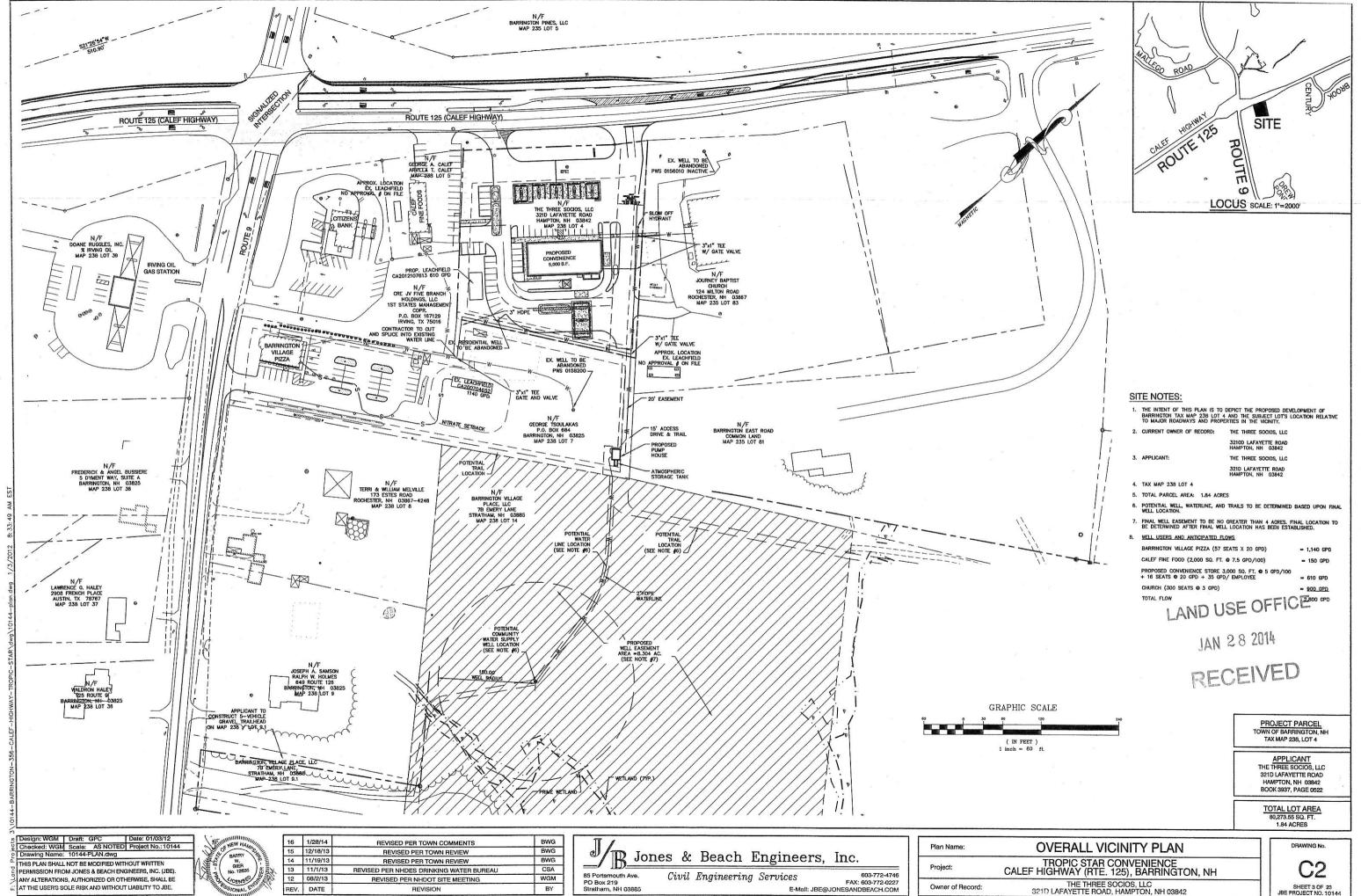
E-Mail: JBE@JONESANDBEACH.COM

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Plan Name:	COVER SHEET	
	TROPIO OTAR COLUMNICATION	

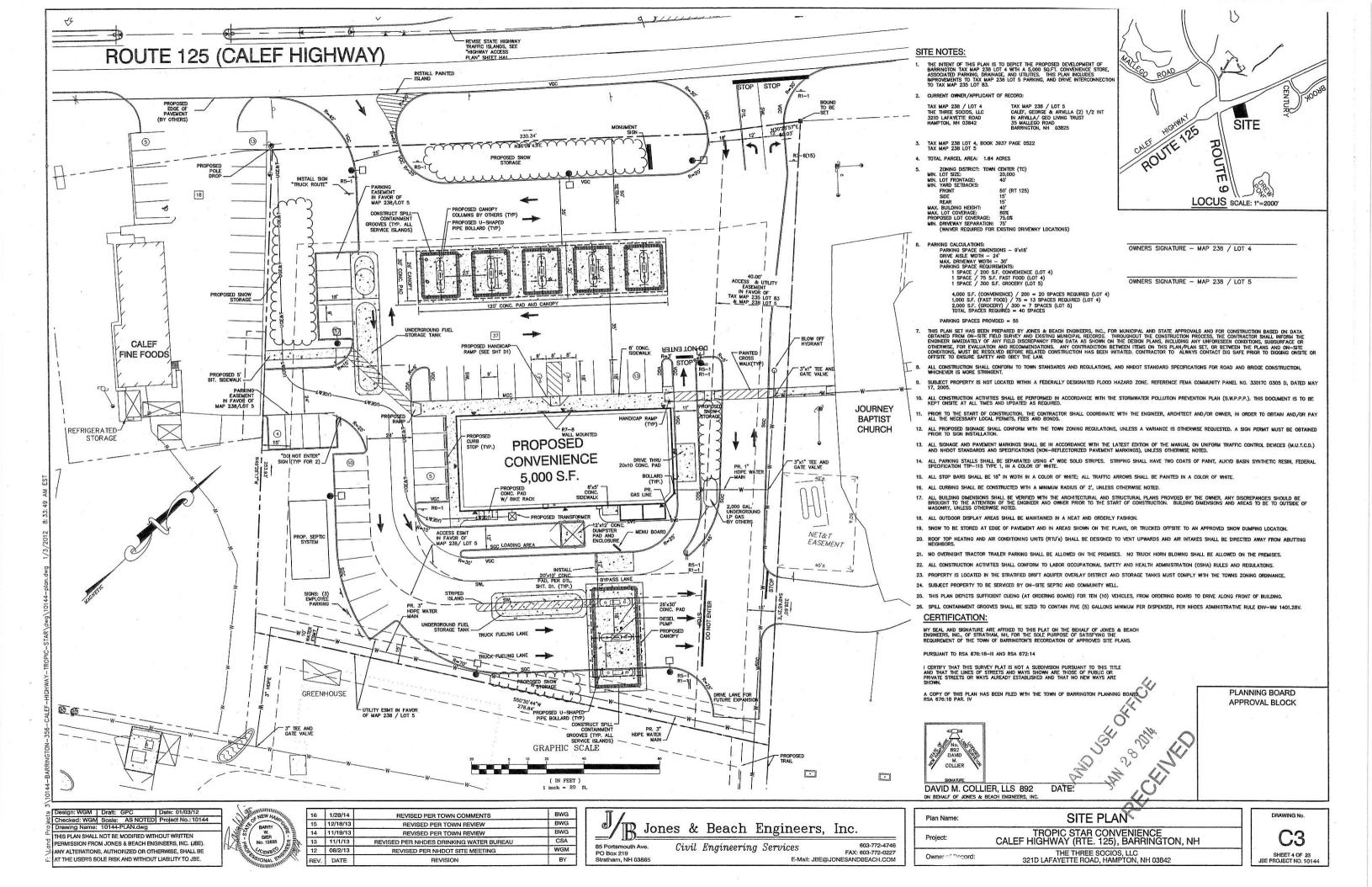
TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH Project: THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 Owner of Record:

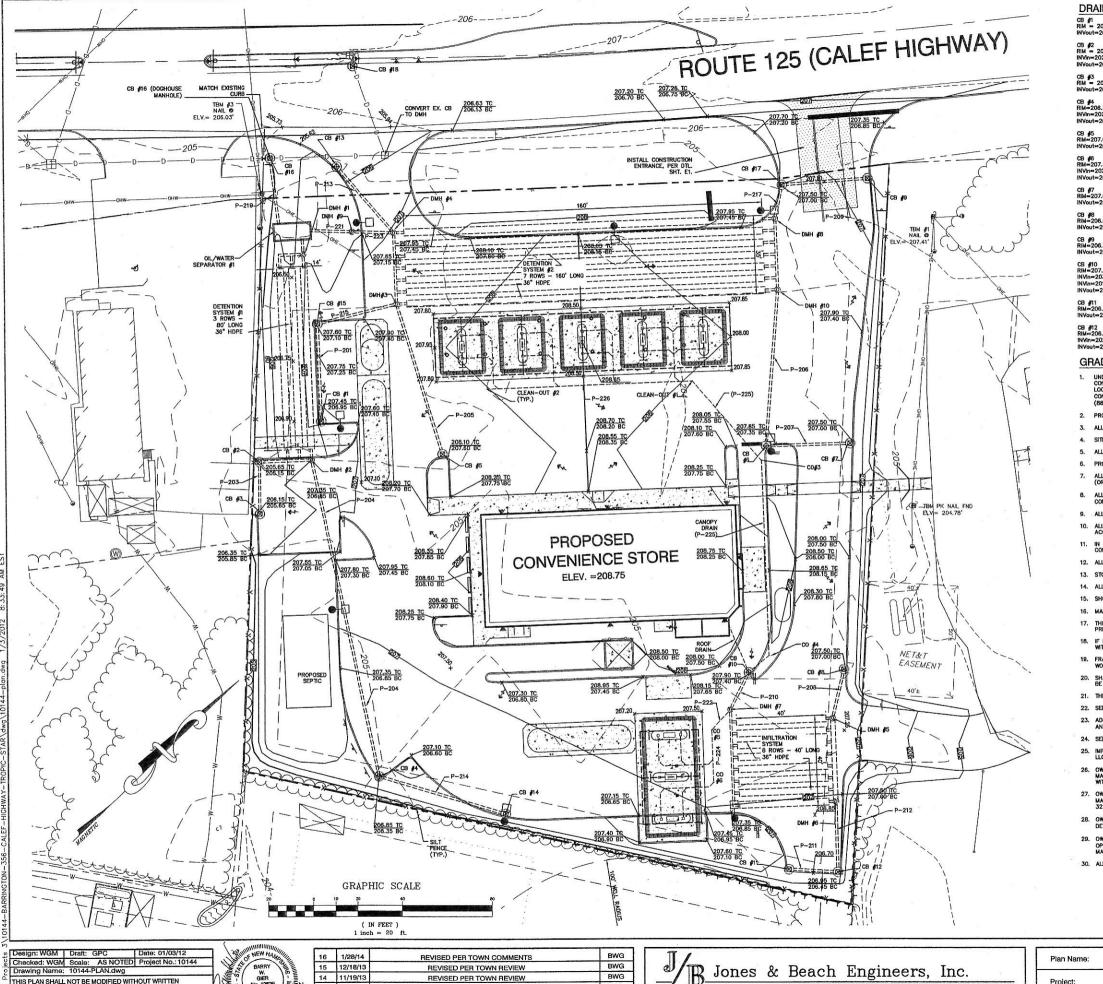
SHEET 1 OF 23 JBE PROJECT NO. 101





EV. DATE





DRAINAGE STRUCTURES: CB #1 RIM = 206.95 ROOF DRAIN 35' - 8" HDPE S=0.010 FT/FT DMH #4 RIM=207.05 INVin=202.15 (P-213) INVin=202.05 (HDR) INVin=201.55 (UNDER) INVout=201.45 (P-223) CO #1 INV=203.10 (P-225) INV=203.10 (P-226) CO #2 INV=204.00 (P-226) CB #3 RIM = 205.65 Cont = 202.20 (P-203) P-221 19' - 15" HDPE S=0.010 FT/FT CO #5 INV=202.30 (P-222) P-222 (CANOPY) 12' - 8" HDPE S=0.010 FT/FT OIL /WATER SEPARATOR P-211 22' - 15" HDPE S=0.005 FT/FT P-212 31' - 15" HDPE S=0.010 FT/FT

GRADING AND DRAINAGE NOTES:

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY, METHER JONES & BEACH ENGINEERS, INC., NOR MAY OF THEIR EMPLOYEES TAKE RESPONSIBILITY F LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EMST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888—14 (888—344—7233).

P-213 39' - 15" HDPE S=0.005 FT/FT

- OWNER IS TO COMPLY WITH ALL NOTES AND SPECIFICATIONS AS SHOWN ON PLAN SHEETS TITLED: LANDSCAPE NOTES (L2.0), PLANS (L 3.0), DETAILS (L4.0 AND 4.1), AND SPECS (L5.0), AS SHOWN ON SHEETS 13-17.
- 30. ALL NECESSARY PAVEMENT REPAIRS SHALL BE COMPLETED IN A TIMELY MANNER. AND USE OFFICE

PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



16	1/28/14	REVISED PER TOWN COMMENTS	BWG
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14	11/19/13	REVISED PER TOWN REVIEW	BWG
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
REV.	DATE	REVISION	BY

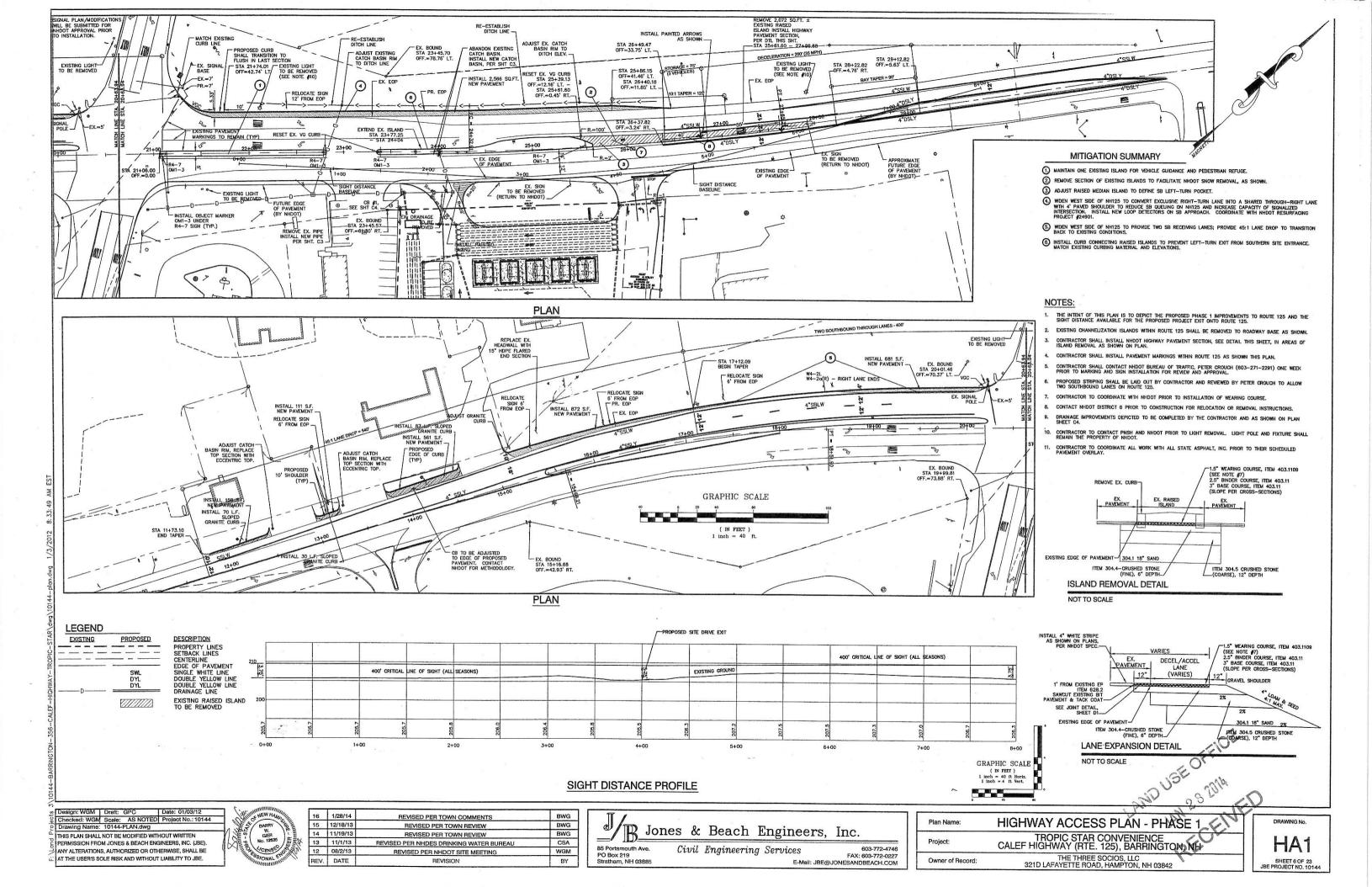
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885

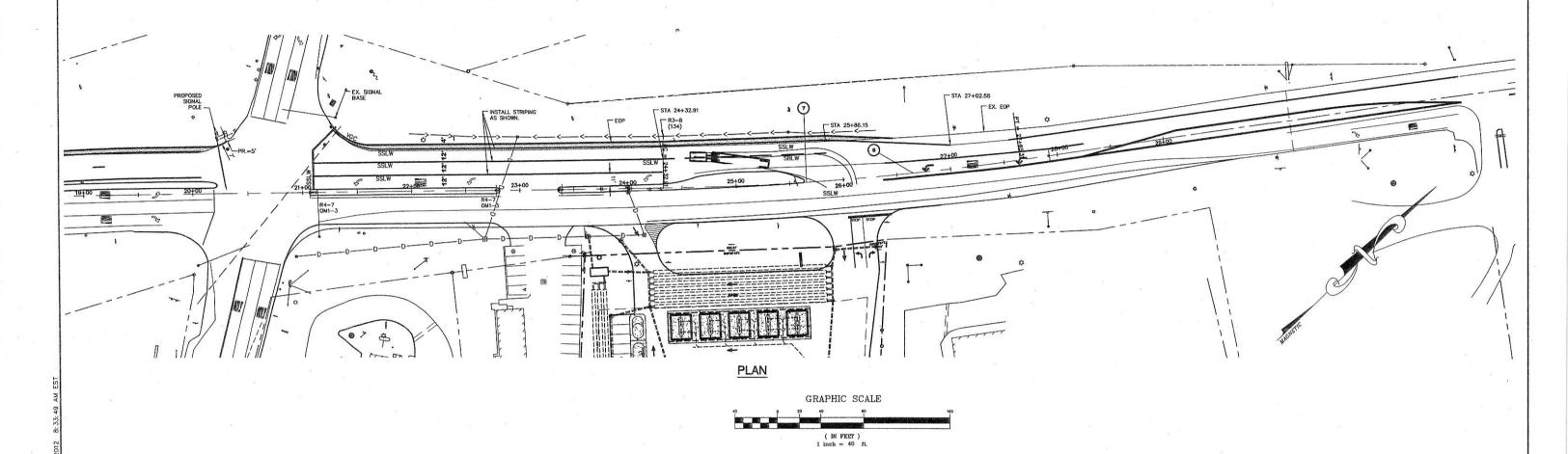
Civil Engineering Services FAX: 603-772-0227
E-Mail: JBE@JONESANDBEACH.COM

		1
ame:	GRADING AND DRAINAGE PL	Å

TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 Owner of Record:

C4





MITIGATION SUMMARY

- PROVIDE WIDENED CENTER LANE TO FACILITATE LEFT-TURN DEPARTURES FROM SITE DRIVEWAY (TWO-STAGE GAP-ACCEPTANCE PROCESS).
- 8. INSTALL EXCLUSIVE LEFT-TURN LANE ON NH125 FOR SB VEHICLES ENTERING SITE.

Design: WGM		Date: 01/03/12
Checked: WGM	Scale: AS NOTED	Project No.: 10144
	10144-PLAN.dwg	

PROPOSED

LEGEND

EXISTING

ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

DESCRIPTION
PROPERTY LINES
SETBACK LINES
CENTERLINE
EDGE OF PAVEMENT
SINGLE WHITE LINE
DOUBLE YELLOW LINE
DOUBLE YELLOW LINE
DRAINAGE LINE

WHITE NEW HOLE	16	1/28/14	REVISED PER TOWN COMMENTS
BARRY	15	12/18/13	REVISED PER TOWN REVIEW
BARRY W. GIER	14	11/19/13	REVISED PER TOWN REVIEW
₩ No. 12535 / 店 美	13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU
CENBER OF SON	12	08/2/13	REVISED PER NHDOT SITE MEETING
MANUAL ERWINE	REV.	DATE	REVISION

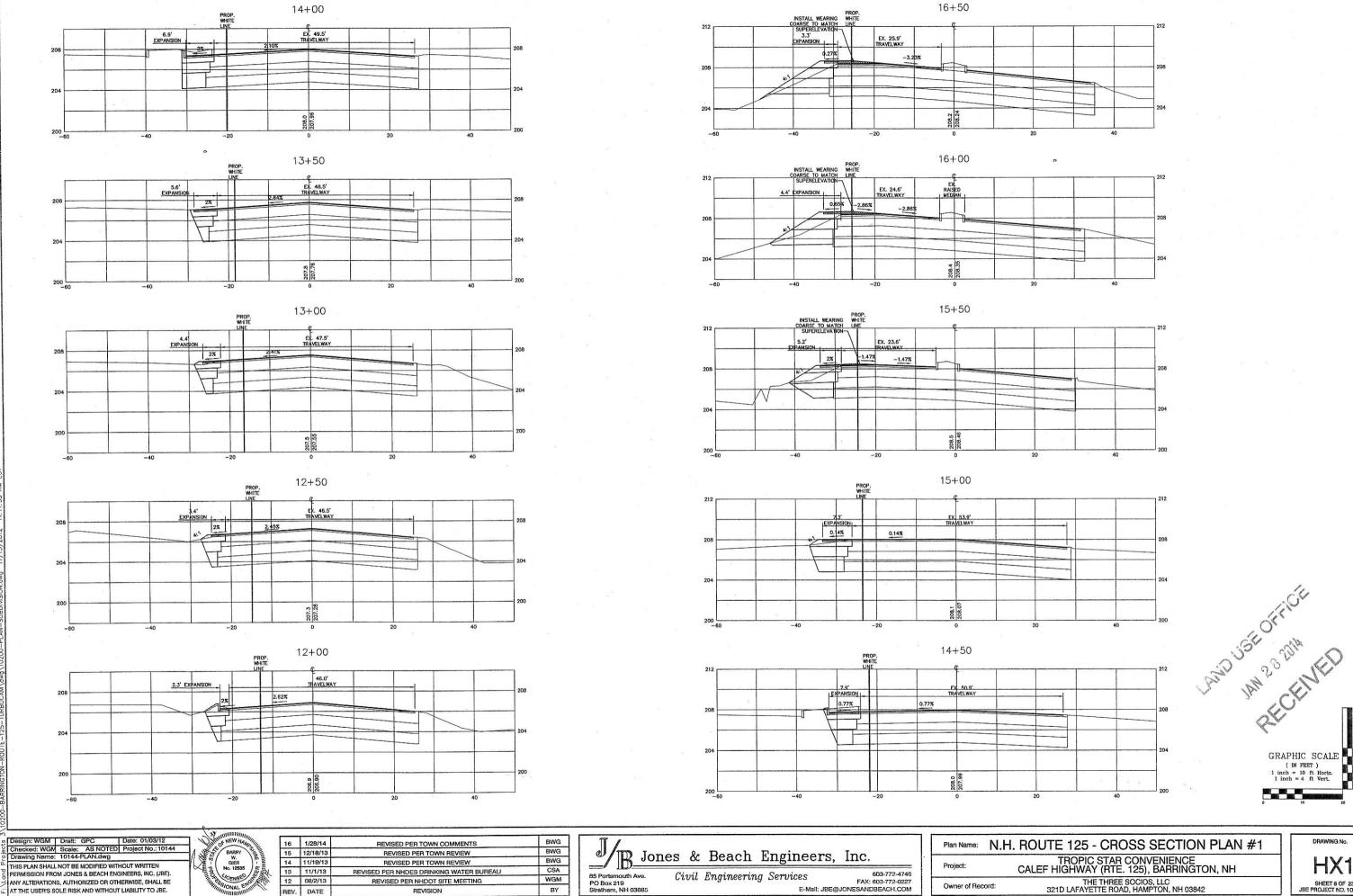
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	WGM	85 Po
	BY	Strat

Jones & Beach Engineers, Inc.

Ces 503-772-4746 FAX: 603-772-0227 E-Mail: JBE@JONESANDBEACH.COM Civil Engineering Services

Plan Name:	HIGHWAY ACCESS PLAN - PHASE 2
Project:	TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH
Owner of Record:	THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842

SHEET 7 OF 23 JBE PROJECT NO. 10144



WGM

BY

ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

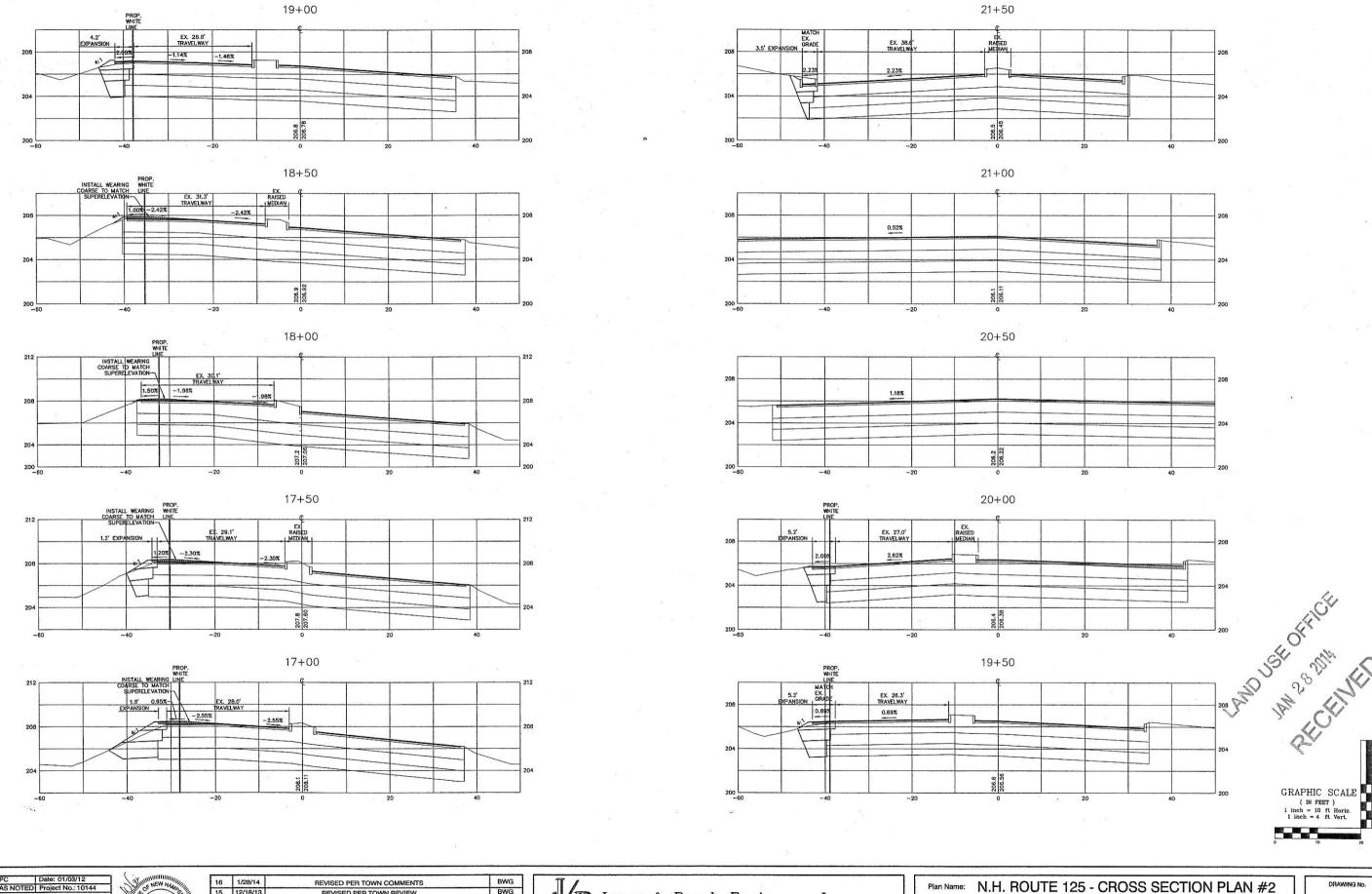
12 08/2/13

REVISED PER NHDOT SITE MEETING

SHEET 8 OF 23 JBE PROJECT NO. 10144

THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842

Owner of Record:



Design: WGM | Draft: GPC | Date: 01/03/12 Checked: WGM | Scale: AS NOTED | Project No.:10144 Drawling Name: 10144-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



REV.	DATE	REVISION	BY
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
14	11/19/13	REVISED PER TOWN REVIEW	BWG
15	12/18/13	REVISED PER TOWN REVIEW	BWG
16	1/28/14	REVISED PER TOWN COMMENTS	BWG

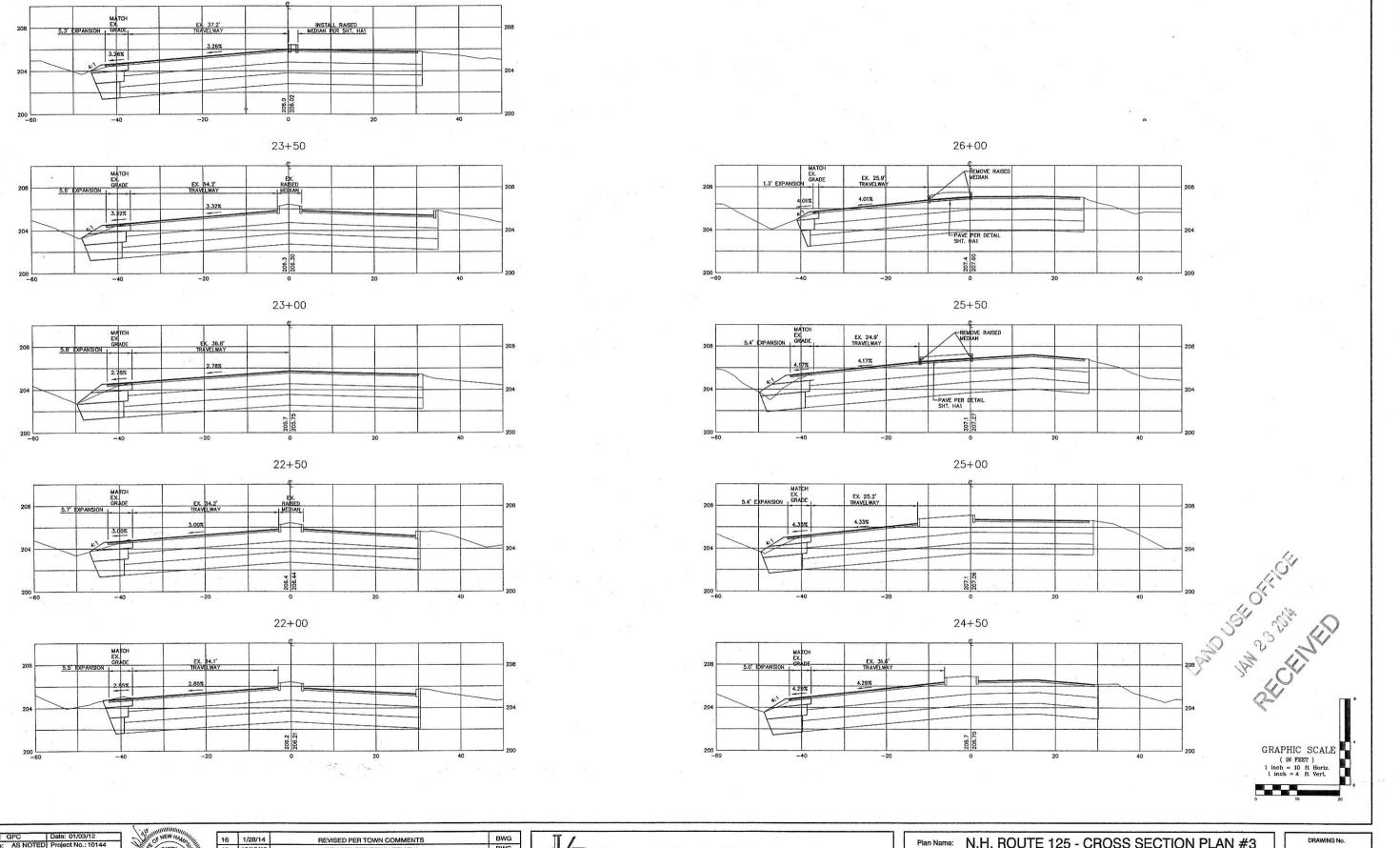
Jones & Beach Engineers, Inc.

Ces 603-772-4746 FAX: 603-772-0227 E-Mail: JBE@JONESANDBEACH.COM Civil Engineering Services 85 Portsmouth Ave.

Project:	CALEF I
Owner of Record:	00

TROPIC STAR CONVENIENCE HIGHWAY (RTE. 125), BARRINGTON, NH THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842





Design: WGM | Draft: GPC | Date: 01/03/12 | Checked: WGM | Scale: AS NOTED | Project No.: 10144 | Drawing Name: 10144-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).
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16	1/28/14	REVISED PER TOWN COMMENTS	BWG
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12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
REV.	DATE	REVISION	BY

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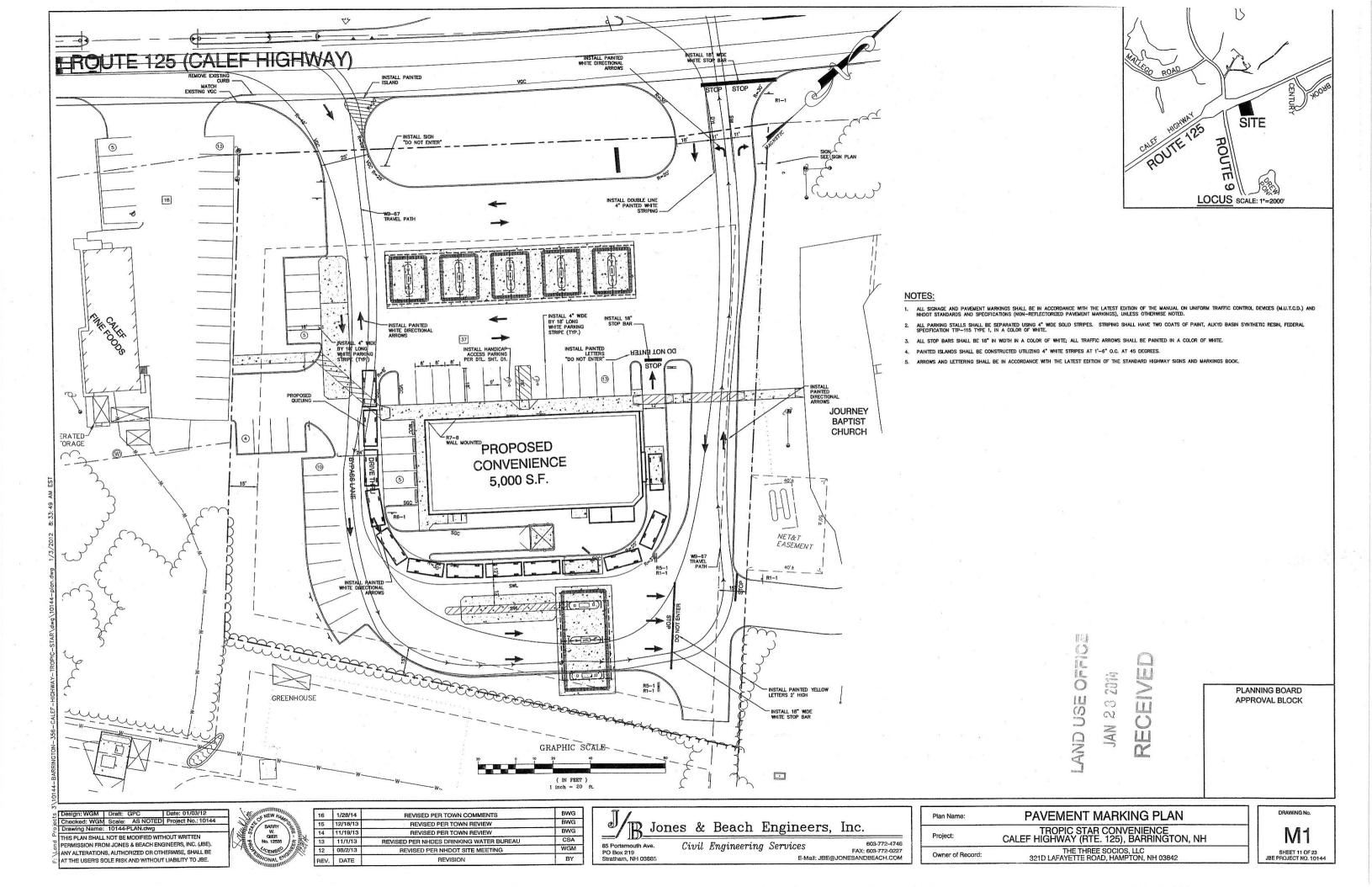
Jones & Beach Engineers, Inc. 85 Portsmouth Ave. PO Box 219 Stratham, NH 03885

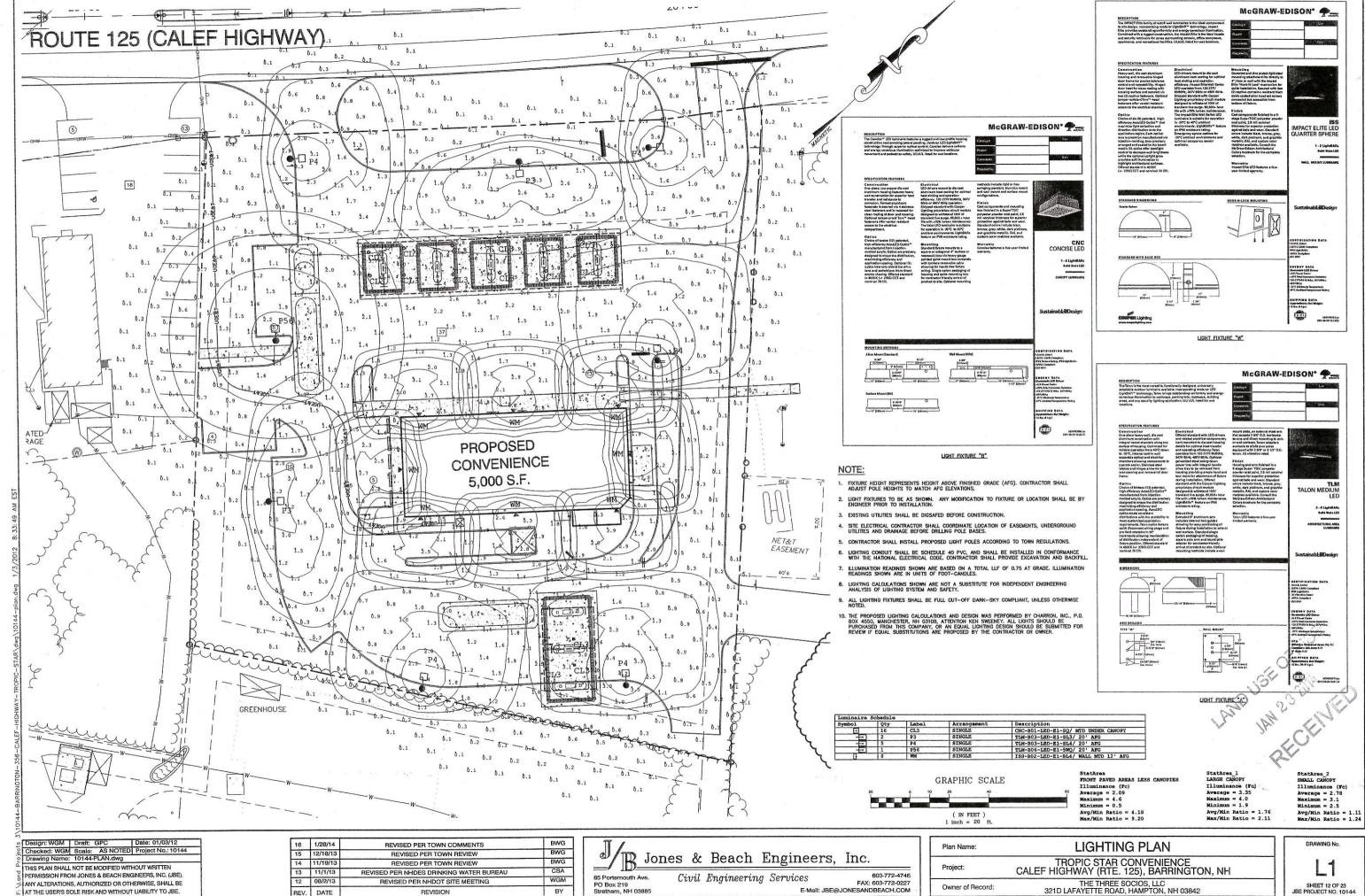
CCS 603-772-4746 FAX: 603-772-0227 E-Mail: JBE@JONESANDBEACH.COM Civil Engineering Services

	Plan Name:	N.H. ROUTE 125 - CROSS SECTION PLAN #3
1		TROPIC STAP CONVENIENCE

TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 Owner of Record:







Plan Name:	LIGHTING PLAN	
Project:	TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH	
Owner of Record:	THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842	

GENERAL PROJECT NOTES

- 1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, DETAILS, AND SPECIFICATIONS, AND PER ALL APPLICABLE CODES AND REQUIREMENTS
- 2. THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK DESCRIBED HEREIN. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES WITH THESE DOCUMENTS PRIOR TO REGINNING ANY CONSTRUCTION
- 3. THE CONTRACTOR SHALL CARRY ALL WORKER'S COMPENSATION, PUBLIC LIABILITY, AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY THE OWNER
- 4. HOLD HARMLESS AND INDEMNIFICATION CLAUSE THE CONTRACTOR SHALL AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY TO ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND ITML THE CONTROLLOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE LANDSCAPE ARCHITECT.
- 5 DAMAGE RESPONSIBILITY CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY DAMAGE RESPONSIBILITY FOURTHACTOR STALL ASSOME FOLL RESPONSIBILITY FOR ANY DAMAGE IMPOSED, INTENTIONALLY OR ACCIDENTALLY, TO EXISTING UTILITIES, BUILDINGS, OR OTHER AMENITIES, DUE TO THE ACTIONS OF THE CONTRACTOR, CONTRACTOR'S BUILD VIESE, AND/OR CONTRACTOR'S BUILD CONTRACTOR'S BUILD CONTRACTOR'S BUILD CONTRACTOR'S CONTRACTOR'S BUILD CONTRACTOR'S CONTRACTOR'S SUBJECT OF THE WORK FROM THE PROPERTY OF THE WORK FROM THE WOR DAMAGE AND THEFT AND REPLACE ALL DAMAGE OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING FROM THE OWNER.
- 6. UNAUTHORIZED CHANGES TO PLANS THE LANDSCAPE ARCHITECT PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK
- 7. REVISED LANDSCAPE PLANS MUST BE SUMBITTED FOR APPROVAL IF ANY REVISIONS ARE MADE TO THE DEVELOPMENT PLAN OR PLAT FOR PAVING, GRADING, OR IMPROVEMET PLANS.
- 8. THE CONTRACTOR SHALL APPLY, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS TO COMPLETE THE SCOPE OF WORK
- 9. TRADE COORDINATION CONSTRUCTION AND INSTALLATION OF ALL ITEMS WITHIN THESE DOCUMENTS SHALL REQUIRE CLOSE COORDINATION BETWEEN TRADES INVOLVED IN UNDERGROUND AND UTILITY INSTALLATION, AND TREE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER COORDINATION BETWEEN TRADES TO INSURE AND AVOID CONSTRUCTION DELAYS OR DAMAGE TO ANY IMPROVEMENTS OR UTILITIES.
- 10. UNDERGROUND SERVICE ALERT CONTRACTOR SHALL NOTIFY DIG SAFE SYSTEM, INC. 72 HOURS PRIOR TO DIGGING AT 1-888-DIG-SAFE. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN WORKING NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES
- 11. INSPECTIONS THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE MUNICIPAL REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY REQUIRED MUNICIPAL INSPECTION.
- 12. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 48 . THE CONTINUE OF SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY REQUIRED OR DESIRED INSPECTION (602) 391-7715.
- 13. THESE DRAWINGS AND SPECIFICATIONS ARE PROPERTY AND COPYRIGHT OFHOWARD SNYDER. THESE DRAWINGS SHALL NOT TO DE USED ON ANY OTHER WORK EXCEPT BY WRITTEN AUTHORIZATION FROM HOWARD SNYDER.
- 14. WRITTEN DIMENSIONS TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF
- 15. ALL QUANTITIES INDICATED ON THE PLANS ARE PROVIDED AS A COURTESY ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE QUANTITIES SHOWN BY CONDUCTING A INDEPENDENT QUANTITY TAKE OFF.
- 16. THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO THE INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT DOCUMENTS
- 17. THE CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL OF HIS WORK AT ALL TIMES INCLUDING WEEKENDS AND HOLIDAYS. ALL RUBBLE, TRASH, OR DISPOSABLE ITEMS RESULTING FOR THE DEMOLITION OF CONSTRUCTION SHALL BE DISPOSED OF IN A LEGAL, LAWFUL AND SAFE MANNER TO AN APPROVED DISPOSAL SITE.
- 18. PLANT MATERIAL TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, ALL TREES SHALL HAVE A NUMBERED TAG.
- 19. ALL PLANT MATERIAL TO BE STAKED BY THE LANDSCAPE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY HOLES BEING DUG.
- 20. ALL GRADES TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
- 21. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FINISHED
- 22. THE LANDSCAPE CONTRACTOR SHALL VERIFY BERM AND RETENTION BASIN LOCATIONS SHOWN ON THESE PLANS WITH THOSE ON THE CIVIL ENGINEERING PLANS, SHOULD A DISCREPANCY EXIST BETWEEN THE PLANS, THIS OFFICE SHALL
- 23. ALL DECIDUOUS TREES TO BE UNCONDITIONALLY GUARANTEED FOR ONE YEAR
- 24. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS DURING THE FINISH GRADING PROCESS.
- 25 NO SLOPES TO EXCEED 4:1 IN LANDSCAPE AREAS.
- 26. UNDER NO CIRCUMSTANCES SHALL ANY TREE BE PLANTED WITHIN 6' OF ANY BUILDING WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT, TREES MUST BE LOCATED AT LEAST 7' FROM A SEWER LINE EASEMENT CENTERLINE, PLANT MATERIALS WITH INTRUSIVE ROOT SYSTEMS SHALL NOT BE PLACE WITHIN DRAINAGE BASINS WITH ENGINEERED BOTTOMS.

- 27. ALL PLANT MATERIAL WITHIN SIGHT VISIBILITY TRIANGLES SHALL BE PLACED SO AS NOT TO INTERFERE WITH A VISIBILITY PLANE DESCRIBED BY TWO HORIZONTAL LINES LOCATED 30 INCHES AND 72 INCHES ABOVE FINISHED GRADE OF THE
- 28. IT IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO INFORM THE . II IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO INFORM THE LANDSCAPE ARCHITECTIONMER OF ANY PLANT MATERIAL CONCERNS BASED ON PLANTING SEASON (E.G. WINTER, SUMMER). SHOULD THE LANDSCAPE CONTRACTOR HAVE ANY CONCERNS ABOUT PLANT MATERIAL DUE TO HEATIFROST OR EXPOSURE, HE SHALL REQUEST A SUBSTITUTION OR DELAY IN PLANTING. ONCE PLANTED, ALL PLANT MATERIAL IS SUBJECT TO SPECIFIED

PLANT LEGENU

DECIDIOUS TREES SIZE

Quercus palustris

erence Civil Survey for Additional Information

EXISTING TREES SIZE **NOTES** QTY Decidious Tree to Remain Vertex

NOTES

QTY

Gray Rimh Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal. 23" Ball White Ash Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal. Liquidambar styraciflus 27" Ball Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal. Pyrus callervana 'Bradford' 23" Ball Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal.

CONIFER TREES SIZE OTY Thuia occidentalis 'Hovevi 15" Ba Z. . X Fastern Arborvitae Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal. 23' Ball Juniperus virginian Eastern Redceda Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal. Tsuga canadensis 23' Ball

Earth Ball Sizes: 15,19,23,27,31 Ball Dia.= Caliper Size: 1",1.5",2.",2.5",3" Cal.

19" Rall

Earth Ball Sizes: 15,19,23,27,31 Ball Dla .= Caliper Size: 1",1.5",2.",2.5",3" Cal.

	SHRUBS	SIZE	NOTES	QTY
①	Buddleja davidii Butterfly Bush	1 Gallon		38
0	Cornus serica Red Osier Dogwood	1 Gallon		15
	llex glabra Inkberry	5 Gallon		9
\emptyset	Vaccinium corymbosum Highbush Blueberry	1 Gallon	# 	31
\$	Viburnum opulus Highbush Cranberry	1 Gallon		37
	GRASSES	SIZE	NOTES	QTY
(%)	Helictotrichon sempervirens Blue Oat Grass	1 Gallon	· ×	56
	Miscanthus sinensis 'Huron Su Maiden Grass Variety	ınset' 5 Gallon		28
**	Molinia caerulea 'Variegata' Striped Purple Moor Grass	1 Gallon		42
	GROUNDCOVERS	SIZE	NOTES	QTY
0	Astilbe chinensis pumila	1 Gallon	9"-12"	53

	CITOONDCOVERC	UIZL	NOTES	G(1)
	Astilbe chinensis pumila False Goat's Beard	1 Gallon	9"-12"	53
	Penstemon newberryi Penstemon	1 Gallon	9"-12" ht.	56
	Seasonal Annuals Annual flower varieties	Flats/Trays	Plant no more than 6" o.c.	235 sc
	VINES	SIZE	NOTES	QTY
~ % ~	Clematis montana	1 Gallon		4

TURF AND SEED MIX	QT
Kentucky Bluegrass Hydroseed	6,455 S.F.
Wildflower Seed Mix Refer Detail13/Sheet L4.1 for Specification	5,135 S.F.

	LANDSCAPE MATERIALS		QT
	Bark Mulch Shredded Hemlock Bark Mulch	4" depth all planting	14,456 S.F. areas
~~	Landscape Border		968' LN. FT.

Plant material shown on slope along northern property line suitebale for planting on 2:1 slope.

LANDSCAPE NOTES

- AREAS OF ORGANIC MULCH WITHOUT PLANT MATERIALS/ GROUNDCOVERS
 SHALL NOT EXCEED DIMENSIONS OF MORE THAN 7 FEET IN ANY ONE DIRECTION,
 MEASURED BETWEEN PLANT CANOPIES AND/OR COVERAGE.
- 2. A SINGLE TRUNK TREE'S CALIPER SIZE, THAT IS TO BE FOUND TO OR LESS THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMERTER OF THE TRUNK 6-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK.
- 3. A TREES CALIPER SIZE, FOR SINGLE TRUNK TREES THAT ARE TO HAVE A DIAMETER GREATER THAN 4-INCHES SHALL BE DETERMINED BY LITTLIZING THE SMALLEST DIAMETER OF THE TRUNK 12-INCHES ABOVE FINISHED GRADE
- 4. A MULTIPLE TRUNK TREE'S CALIPER SIZE IS MEASURED AT 6" ABOVE THE LOCATION THAT THE TRUNK SPLITS ORIGINATES, OR 6" ABOVE THE FINISHED GRADE IF ALL TRUNKS ORIGINATE FROM THE SOIL
- 5. AREA WITHIN THE SIGHT DISTANCE TRIANGLE IS TO BE CLEAR OF LANDSCAPING, ASIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 2 FEET. TRES WITHIN THE SAFETY TRIANGLE SHALL HAVE A CANOPY THAT BEGINS AT 7 FEET IN HEIGHT UPON INSTALLATION. ALL HEIGHTS ARE MEASURED FROM NEAREST STREET LINE ELEVATION.
- 6. RETENTION/DETENTION BASINS SHALL BE CONSTRUCTED SOLELY FROM THE APPROVED CIVIL PLANS. ANY ALTERATION OF THE APPROVED DESIGN (ADDITIONAL FILL, BOULDERS, ECT.) SHALL REQUIRE ADDITIONAL FINAL PLANS
- 7. ALL RIGHTS-OF-WAY ADJACENT TO THIS PROPERTY SHALL BE LANDSCAPED AND
- 8. NO LIGHTING IS APPROVED WITH THE SUBMITTAL
- 9. NEW LANDSCAPING, INCLUDING SALVAGED PLANT MATERIAL, AND LANDSCAPING INDICATED TO REMAIN, WHICH IS DESTROYED, DAMAGED, OR EXPIRED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE SIZE, KIND, AND QUANTITY PRIOR TO THE ISBULANCE OF THE CERTIFICATE OF OCCUPANCY, LETTER OF ACCEPTANCE TO THE SATISFACTION OF THE INSPECTION SERVICES STAFF.

LAND USE OFFICE
JAN 23 2014
RECEIVED

APPROVED PLANNING BOARD

DATE:

AMORY LAND DESIGN, LLC. 26B STRONG STREET NEWBURYPORT, MA 01950-2324

TROPIC STAR CONVENIENCE

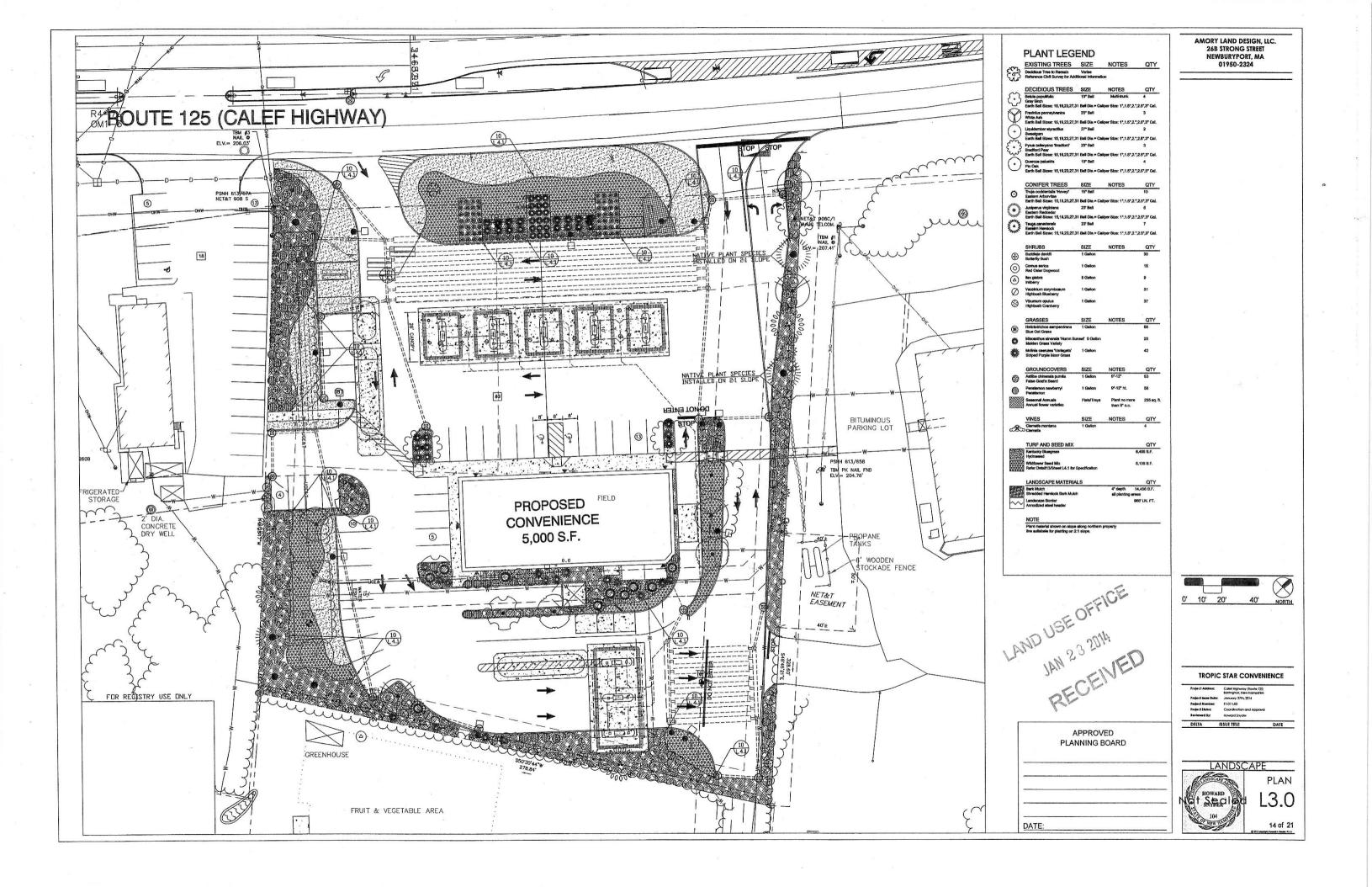
Calef Highway (Route 125) Bantagton, New Hampshire

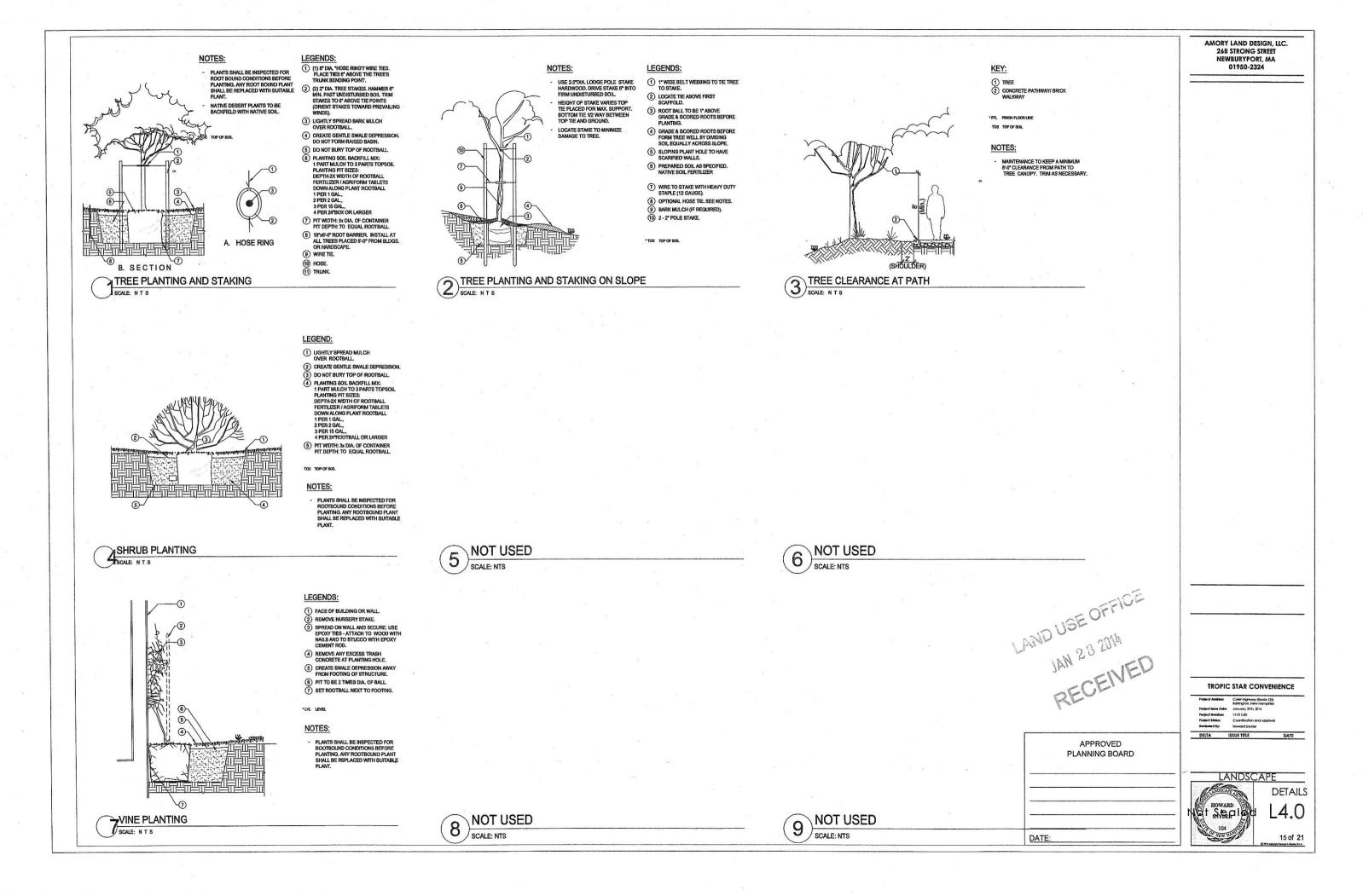
: January 27th, 2014 11-011.00 Coordination and Ap Howard Snyder DELTA ISSUE TITLE

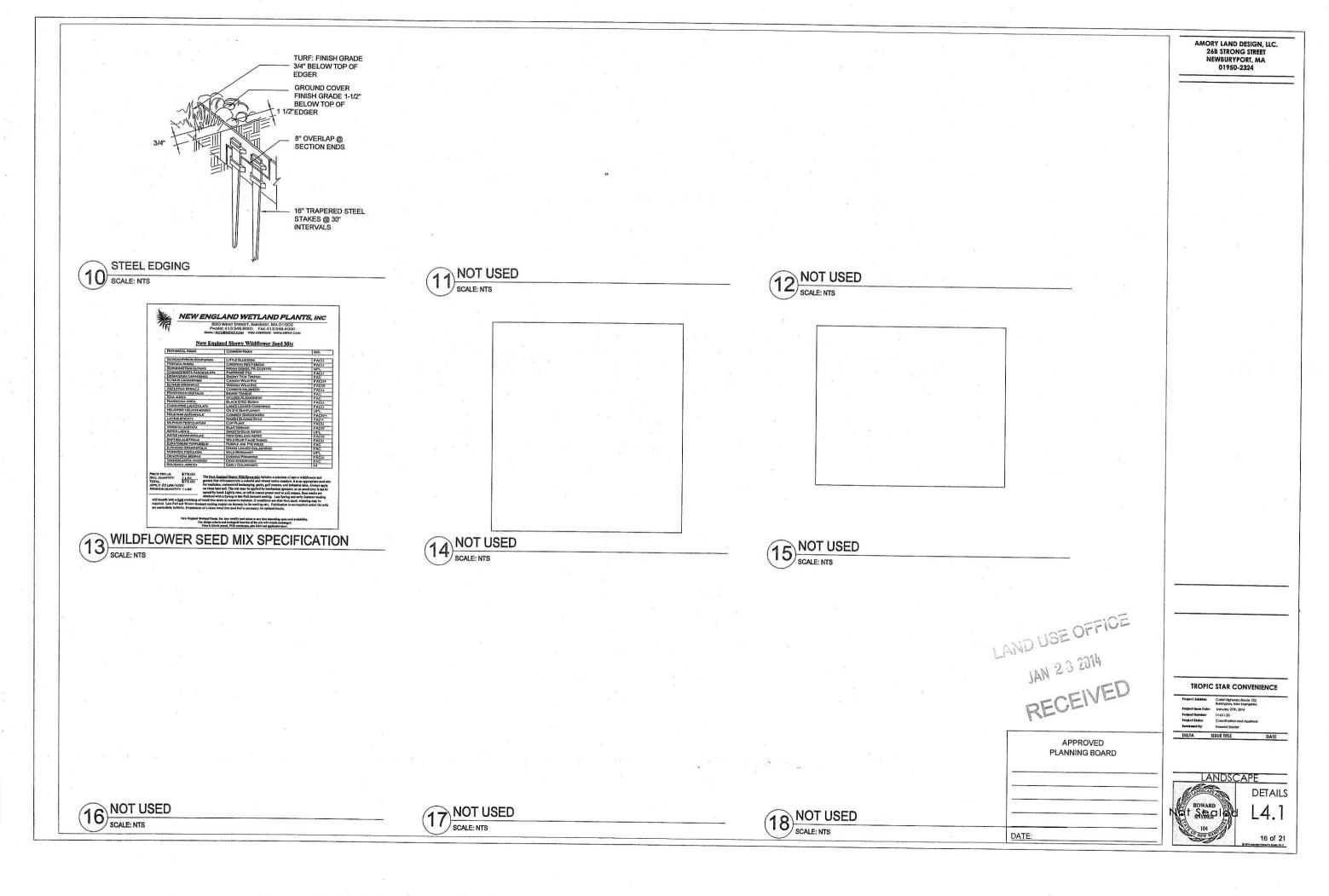


NOTES

13 of 21







100 mg

LANDSCAPE SPECIFICATIONS

- 1.1 Site Inspection: Bidder is required to inspect site and thoroughly inform them
- 1.1 Sub-majorability to the responsibility of the bidder to inform the Lendscape Architect of discrepencies between existing conditions and those shown on drawings prior to beginning construction.
- 1.2 <u>Project Completion</u>; shall be defined as the date construction is complete and the maintenance period begins.
- 1.3 <u>Guarantee Period</u>; Time defined in these attached documents during which the Contractor is responsible for the health and replacement of plent material.
- 1.4 Work Experience: The landscape contractor, with their bid submittal shall provide written verification of three (3) years demonstrative ability to perform the work specified perein. Past work shall be of similar type, scale and quality.
- 1.5 <u>Demage and Responsibility</u>; Contractor shall assume full responsibility for any damage imposed, accidentally or intentionally, to existing utilities, buildings, or other amenities, due to the actions of the contractor, contractor employees, and contractor's sub contractors. Contractor is required to protect work from demage and theft and replace all damage or stolen parts until the work is accepted in writing from the owner, without additional cost to the country.
- 1.6 <u>Unauthorized changes to plans</u>; The Landscape erchitect preparing these plans is not responsible for, or liable for unauthorized changes to or used of these plans. All changes to the plans must be in writing and must be approved by the Landscape Architect prior to the commencement of any work.
- 1.7 <u>Permits:</u> The contractor's responsibility to apply, obtain, and pay for all required permits to complete the scope of work.
- 1.8 <u>Trade Coordination</u>; Construction and installation of items within these documents requires close coordination between trades involved in underground / utility installation and the location of improvements. Contractor is repenable to Insure proper coordination between trades to ensure and avoid construction delays or damage to any improvements or
- 1.9 <u>Underground service elert:</u> Contact Dig Safe System, Inc. 72 hours prior to digging at 1-888-Dig-Safe or 811. The contractor shall exercise extreme care in working near existing utilities. Verify the location and condition of utilities prior to construction. Pot holing required will be at no additional cost to owner.
- 1.10 Insurance: The contractor shall carry worker's compensation, public liability, and property damage insurance as required per local code and owner's agreement.
- 1.11 Hold hermless and indermification clause; Contractor assumes sole and complete responsibility for the job site conditions during the course of construction of the project. Including safety to all persons and property This requirement applies continuously and not limited to normal working hours, and harmless from any and all liability, real or alleged. In connection with the performance of work on the project, excepting for liability arising from the sole negligence of the Landscape Architect.
- 1.12 <u>Inspections</u>; The contractor is responsible for notifying the municipal representative prior to any required municipal inspection. The contractor shall notify the Landscape Architect at least 48 hours in advance prior to eny required or desired inspection at (978) 764-6155. These drawings and specifications are property and copyright of Howard Snyder, Registered Landscape Architect. These drawings shall not be used on any other work except by written authorization from Howard Snyder, RLA.
- 1.13 <u>Dimensions</u>: The written dimension takes proference over scale dimensions and verified on the job alto. Discrepancies must be brought to the attention of the Landscape Architect prior to the commencement of work.
- 1.14 Questions: The Landscape Architect decides all questions relating to the interpretation of the drawings and the acceptable fulfillment of the contract.
- 1.15 Job Site: Maintain the premises clean and free of excess equipment materials and rubbish incidental of the work at all times including weekends and holidays. Dispose rubble, trash, or items resulting from the demolition of construction in a legal, lawful and safe manner to an approved disposal site.

2.0 WORK SPECIFIED HEREIN

- 2.1 <u>Included Items</u>: The work specified within this section includes labor, materials, equipment and services necessary to complete the improvements detailed and specified, including the following work reasonably incidental thereto. The Contractor shall be responsible for the following work unless otherwise specified on the plans.
- 2.2 Coordination: Coordinate the Irrigation work, if any, to insure successful integration
- 2.2.1 Grading: Responsible for finish grade ± (.1) tenth of a foot beyond the related grading and drainage plans. Coordinate with civil plans, if exist.
- 2.2.2 <u>Soil Preparation:</u> Soil condition and fine rake prior to planting lawns, ground cover, seeding and decomposed granite installation.

3.0 SAMPLES & TESTS

3.1 SollTests: The Landscape Architect reservee the right to take and enelyze samples of materials for conformity to specifications at any time. Contractor shall furnish samples upon request by Landscape Architect. Rejected materials shall be immediately removed from the site and replaced at the Contractor's expense. Cost of testing of materials not meeting specification is the Contractor's expense.

4.0 COORDINATION AND RESPONSIBILITY

- 4.1 <u>Collaboration with Trades</u>: Coordinate and cooperate with other trades working on the site for successful completion of the project.
- 4.2 <u>Site innowledge</u>: Before commencing work on the site, become thoroughly acquainted with layout of all underground utilities and structures over the entire site. All requisite repairs to correct damage caused by work of this Section shall be at the Contractor's

- 4.3 <u>Existing material</u>; Protect and maintain existing plant material and associated elements not indicated for removal as necessary to ensure survival.
- 4.4 Pre-construction Conference: A pre-construction conference is required prior to work. The Contractor, and related autocontractors together the Owner's representative and Lendscape Architect are given an opportunity to review plans together before any work is performed. The purpose of this conference is to discuss the project in detail, including scheduling of work, site preparation, interpretation of documents and to answer questions that may arise. Unless followed up in writing, verbal authorizations or acknowledgment by anyone present are not be binding. It is the responsibility of the contractor to notify the owner and Landscape Architect 10 days prior before a date requested for the conference.

5.0 STANDARDS

- 5.1 Quantity: Quantities on plant list, if shown, are for reference purposes only. Contractor is responsible for installing all plant materials shown on the plans. If shown, quantities are provided for estimating or City approved purposes only, and are not to be considered accurate for bidding. All significant differences between the site and the drawings shall be reported to the Landscape Architect immediately upon determining sald discrepancies. Failure to do so, require the Contractor to make additional plantings to fill spaces, or other changes determined by the Landscape Architect at the Contractor's expenses.
- 5.2 Pient Material Substitution: At the time of bidding, the Contractor shall verify the ability to purchase all plant materials required to complete this work. Upon award of bids, the Contractor shall make arrangements with his suppliers for adequate and property sized materials as specified on the plans. If perceived shortage is determined either at time of bidding, or upon sward of contract, the supplier may employ one of the following methods.
- 5.2.1 <u>Contract Growing of Metertals:</u> When required on the construction documents, and sufficient lead time allows, planta shall be contract grown. Specified minimum time of six months per container, prior to moving into larger sizes, shall be walved, provided adequate roots develop throughout the container to hold the soil together upon removal from the container. Cost for contract growing shall be stipulated to and agreed upon as a separate contract cost with the Owner prior to commencing any work lower of contract growing.
- 5.2.2 <u>Substitution of Materials</u>: If the above method proves inadequate, plant substitutions approved is required from the Owner/Landscape Architect. The Contractor can make recommendations to the Landscape Architect, in writing, for consideration. The substitutions must be make with the same sized container material. Substitutions will not be considered prior to bidding. The Contractor must provide a list of suppliers searched to the landscape architect for metorials not available. If requested.
- 5.3 Nomenciature: If specific plant material is in question provide copies of the project's order forms to verify with the Landscape architect. The landscape architect will determine if any plant rejections occur. If requested, make plant material corrections at ne expense to the owner. Names of plant materials on the plans are in accordance with the American Nursery and Landscape Association and/or as specified in the plant list.
- 5.4 Cuellity & Size. The quality and size of all plant materials shall be besed upon the American Nursery and Landscape Association Accepted Standards for size, shape and caliper unless specified otherwise on the plans. Rejected materials shall be removed from the sile, and repiscad immediately the decision of the Landscape Architect shall be final. Container grown plants shall have been grown in containers or boxes for a minimum of six months, except when the plants hold the entire rootbell together upon removel from the containers, without being root-bound. "Climatized" non-Massochusettes grown plants for at least four weeks in partial shade, during the summer months, prior to delivery to the site. Trees shall have straight trunks throughout their helpful, except multi-trunked specified material. Any tree with weak trunks incapable of supporting its full growth shall be double-staked, whether called for in the saccelifications or no.
- 5.5 Plant Meteriel Procurement: Purchase trees, shrubs, vines and groundcovers within 30 days of contract award by the owner. Forward written verification that this has taken plac to the Owner and Lendscape Architect. All storage and maintenance costs is borne by the Contractor.
- 5.6 <u>Inspection:</u> All plant materials are subject to acceptance or reject by the Landscape Architect. Notify the Landscape Architect after delivery of plant materials. The Landscape Architect will visit the site, determine the quality of stored materials, and notify the Contractor of all rejected materials.
- 5.7 <u>Product Delivery. Storage & Handling:</u> All plant materials delivered to the be planted as soon as practical, after inspection and approval. Keep all sun sensitive plant materials out of full sun during summer months. Delivery, melantenance and installation of all plant materials is the sole responsibility of the Contractor, and they shall make all arrangements for proper labor to evoid delays and rejection of plant materials which have been on-site too long without planting or installation.

6.0 MATERIALS

- 6.1 <u>Mulch:</u> Use organic, well-rotted, decomposed bark fiber, (wood chips not acceptable) materials with no filters or agents save for the belance of nitrogen-adding ingredients. Ph shall range from 8.8 to 7.2; moisture content shall be 30 to 40% by weight, and nutrients shall comply with the following minimum requirements by volume: Nitrate Nitrogen 1.5%; Organic Nitrogen 3.65%; Phosphorus 1.14%; Potassium 1.18%; Iron 0.84%. Delivery to site shall be either bulk or marked begs. Acceptable products is dye-free "Hernlock Mulch" or approved egul.
- 6.2 <u>Send:</u> Shall be course, granular concrete sand or grout sand (not mortar or silica sand), conforming to ASTM C-33, thoroughly and uniformly washed, entirely free of oil or other deletarious substances.
- 6.3 <u>Fertilizer/Hormones</u>; Apply Superthrive root stimulant as directed by manufacture at the time of installation. Provide a second applications a week later. Add 0/10/10 slow release tablet fertilizer and sulfur granular per manufacture specifications to the plant pit head effective.
- 6.5 Topsell. Mend sell free from non-organic refuse, nodous weeds, nut gress, thorny day, dods, roots and all material toxic to plant growth. Excavation may need to extend past the first 6" of soil on the aits. Topsell shall comply with MASSDot specifications.
- 6.6 <u>Pfanting Pft Backfill:</u> Use native top soil material generated from plant pft excavation with said amenities evenly mixed in. Do not physically compact material, only water compact material in 12° layers at a time.
- 6.8.1 <u>Native Top Sol Dressing:</u> Produced from on-alte top soil. Generate during original site grading, coordinate with general contractor as required. Harvest the first 6* of native land to product material. Screen material save only 4* minus product.
- 6.7 Tree Staking, Guying & Bracing: Stake 15-gal. and larger nursery trees shown on the
- 6.7.1 <u>Lodge Pole Staking:</u> Stakes shall be a 2" diameter round knot free Pine "lodge pole", length as required below, and installed as follows: Stakes immediately adjacent to, but in no case through, the root belial, penetrating at least 8" into undisturbed soil, and aligned vertically. The stake alignment should not interfere with the existing branch structure of the tree. Install stakes as follows: 15-gal. 2 ea. 8" long pole; 24" and 30" drum laced root ball size -2 ea. 12" long stakes;

- 6.7.2 <u>Guring & Bracing</u>. 36" root belli sized trees and larger size apply guying and bracing method. Use three guy wires with ground stakes (see details on plans). Attach #8 gauge guy wire to a #5 ribbed bar 36" long with a drilled hole completely through the ground stake, and securing the wire with two mechanical clamps per wire. Use #12 gauge plastic coated guy wire for fissterning trees to stake. Attach wire to trees at the lowest branches, encased with 24" rubber hoses, and clamped with at least two clamps. Use only rubber hosing, no plastic. Allow 4" min. clearance around the trunks of 36" box trees or larger. Set the ground stakes an appropriate distance from the tree to provide an approximate angle of 45 degrees between the ground and wire.
- 6.8 <u>Headers:</u> See plans and details for type of header and installation specifications. All headers shall be mounted with their tops flush with sidewalks, kept 1 1 above finished grades of decomposed granite. Use continuous curves and straight lifed forms free of wiggles and dips. Notify the Landscape Architect 48 hours in advance for the opportunity to verify form work / layout prior to pour. Landscape architect reserves the right to reject any material thought to be improperly installed.
- 6.9 Stone: Provide material void of lump and free of foreign substances. Use type and size specified on plans and in details. One color shall be used for the entire work, and shall be absoluted from a claric partner.

8 10 Lawn Materials

6.10.1 Sod; Kentucky Blugrass or as specified on the plans. Sod shall be warranted by grower to be weed-free, insect-free, disease, and toxin-free. No growth reducing chemical or condition shall be acceptable. Sod meterial to be provided from one source. Plant acd cut and hervested must be stacked, delivered and installed within 24 hours of initial hervest-cut. Any sod delivered to alter must have accompanying invoica/delivery trickets indicating time of cut, quantity delivered and any other pertinent information requested by Project Manager, installiation of cut and delivered sod shall commence immediately upon delivery.

7.0 PLANT INSTALLATION

- 7.1 Contractor shall stake tree locations as shown on drawings. The Landscape Architect shall field check the layout location of plants and will direct the Contractor to adjust to exact position before excavation begins. Notify the Landscape Architect at least 48 hours prior to scheduling work.
- 7.2 Notify the Landscape Architect of rock celeche, hard pan clay, and other obstructions which are encountered in the excavation of plant pits. Alternetive planting locations may be selected by Landscape Architect.
- 7.3 Plants to sit in a 2 deep basin (barely visible) Do not provide swales around planting
- 7.4 Plants injured or root bell broken during planting operations will be rejected, cut larger containers as required to remove plant material without injury.
- 7.5 All ground cover and mulch areas shall be treated with a pre-emergent and herbicides as cuttined in Section 7.9.
- 7.6 Set finished grade 1- 2" below tops of header, walks, etc. (Typical)
- 7.7 Broom sidewalks and paving daily during planting operation. Empty plant containers and debris are to be picked up and disposed of daily. Contractor's trash shell be removed from the site at the completion of work.
- 7.8 Weed control: Remove all weeds by mechanical methods or by spraying with 'Round-up' or equal. Remove all weeds by mechanical methods or by repeating sprayings of Round-up or equal. Use Manage on nut grass infestation as required. A pre-emergent such as Teachal' or equal, shall be used in all decomposed grantle areas. Follow manufacturers recommendations for applications. Plastic liners shell not be allowed. It is the sole responsibility of the contractor to provide a clean and weed free environment for plant masterial until the end of the maintenance period.

8.0 INSTALLATION

- 8.1 <u>Soil Preparation</u>: The Contractor shall be solely responsible for removing all ABC, rocks or foreign objects larger than 1" from all planted areas. The Contractor shall visit the either and work with the General Contractor to assure themselves this provision is compiled with in areas where furf will not be planted, they shall take proper precautions for the removal of any existing furf and other aggressive week?
- 8.2 Shubs & Trees: Shall be installed in accordance with the foregoing specifications and the details shown on the plans. Plant pits shall always provide adequate growth volumes for new roots, and shall meet the following minimum standerds, which may be increased on the details: Dig planting pits 1 ½ times the width and the same height of the root ball. Buried mothall will not be accorded:
- 8.3 Lawn Materials: Soil Preparation: Clear and grub area, then scarify and cultivate to a minimum depth of 6°; then set to finish grade. During the operation, remove debris, including all stones over 1° in any dimensions, and disposed of offelia. Next, provide chemical fortilizor, 16-20-0 composition, mechanically spread over the entire area at an average rate of 10 pounds per 1000 sq. ft. Cultivate fertilizer into the top six inches of soil. Inform the Landscape Architect for inspect and approve these areas prior to planting.

Special handling and installation requirements are as follows:

- special rending and installation forgermentes are a relocated.

 1. All and delivered shall be installed within the 24 hour harvest/installation time frame.

 2. All sod installed shall be laid down using a staggered seam regimen, alternating each set of rows so no two ends of sod strip are adjacent to each other.

 3. Once installed sod is watered and all trimmings and scrape are removed and disposed
- of, all turf areas shall be power-rolled using at least a 500 pound weighted roller. All areas shall be rolled in perpendicular directions making certain all areas are rolled at least two times.

 4. Commence Irrigation to Installed turf as soon as possible. Any areas not receiving
- umes.

 4, Commence Infigation to Installed turf as soon as possible, Any areas not receiving irrigation water due to irrigation deeign or installation problems, shall motive immediate hand watering attention by installation crew members and subsequently report problem to Protect Manager.
- 8.4 <u>Berms/Gradins</u>: Earth berms shall be formed as indicated on the plans. Grading responsibility shall be work of the mass grading contractor unless specified otherwise on the construction documents. The Landscape Architect shall approve all grading based on aesthetics, prior to any tree irrigation and site improvements. The Civil Engineer shall approve all grading based upon drinaige. Approvals must be obtained in writing prior to commencing lendscape work. Notify Landscape Architect at least 48 hours prior to scheduled

9.0 PRUNING AND REPAIR

9.1 Upon completion of the work of this Section, prune trees and shrubs if required or directed by the Landscape Architect, and injuries repeired. Limit amount of pruning to the minimum necessary to remove dead and injured twigs and branches.

10.0 CHAPANTEE AND REDI ACEMENT

- 10.1 Guarantee all lawns and planting for a period of 90 days from the date of final acceptance unless otherwise noted. All lawns and planting shall be allive and in satisfactory growth at the end of the guarantee period.
- 10.2 During the guarantee period, all plants shall be in a healthy, viable condition. Replace any plant not in a healthy condition when notified by the Landscape Architect. Should any difference of contino rates over replacement, the Landscape Architect's decision is final.
- 10.3 Guarantee replacements for a period of 90 days from the date of final acceptance
- 10.4 The guarantee period for deciduous trees shall be in effect until all are showing new growth the spring following planting provided the tree was installed just prior to it's doment stage.
- 11.0 ACCEPTANCE OF WORK
- 11.1 After completion of all work and before the beginning of the maintenance period, notify the Landscape Architect to schedule the maintenance inspection. Provide on-site, a complete set of as-builts for Landscape Architect review during the maintenance inspection.
- 11.2 Before scheduling the maintenance inspection, insure that all tests and work related to irrigation is completed. The Landscape Architect shall be notified (14) days prior to scheduling inspection.
- 11.3 Insure that tree, shrub and ground cover quantities are according to plan and at correct spacings, and are in healthy substantially vigorous condition.
- 11.4 Irrigation system needs to be fully functional and complete on the date of inspection for approval. Open all valve boxes and controllers to expose herdware for inspection just prior to the arrival of the Landscape Architect (Owner, Demonstrate the operation of all remote control valves from the controller, in sequence, and provide enough time for the Landscape Architect to inspect all areas being watered.
- 11.5 Should the Landscape Architect or Cowner's representative determine the site to be sufficiently incomplete or poorly installed, they reserve the right to postpone or extend the maintenance period until the project is in acceptable condition.

12.0 MAINTENANCE

- 12.1 Maintenance shall be for a period of 90 days from date of final acceptance unless noted otherwise.
- 12.2 Ground cover areas shall be maintained weekly for first thirty days, bi-weekly during the remaining days, removing all weeds and grasses, and fine-tuning the intgation system to ensure adequate coverage while minimizing oversprey.
- 12.3 Lawns shall not be mowed until the height reaches 2 and 1/2* keeping all heavy objects off lawns until that time. Allow one day without water prior to mowing.
- 12.3.1 Lawns shall be fertilized at 30 day intervals with 5 lbs. of Ammonia Sulfate per 1000 sq. ft. Contractor shall supply proof of these fertilizations prior to final acceptance by the
- 12.4 During the entire maintenance period, the Contractor shall be responsible for all weeding, spraying, fortilizing, mowing, raking, sweeping, mulcing, replanting and watering eroses with proper amounts of water to assure proper growth of all plented materials.
- 12.5 The maintenance period may be extended by the Landscape Architect if in their opinion the project is not being properly maintained during the designated period.

13.0 FINAL ACCEPTANCE

13.1 Notify the Landscape Architect at least 14 days in advance of their final Inspection. All punch-list items generated from the 'Acceptance of Work' must be completed. The attemust be in perfect condition, with lawns mowed and trimmed (dippings removed), planted areas free from weed/grasses, all refuse removed from planted areas, walks and drives clean and dry. The Contractor reprogram a final watering times and cycles of all sprinkler irrigated errors after initial times were set during the construction process. List in writhing the watering schedules for the owner to present to his maintenance staff. If all is in order, or can be made so within 24 hours, the site will be accepted vorbally at this time, or extended until such time as the site can be accepted. A Letter of Acceptance' from the Landscape Architect will be presented to the contractor within (14) days signing off each party from contracted obligations to the document's work accomplished. Should the project require additional meintenance, the Landscape Architect shall not!ly the involved parties at this time. All additional time/cost involvement required by the Landscape Architect due to continuation of the maintenance period will be the responsibility of the Contractor. This time shall be billed at \$75.00 per hour plus expenses.

END OF SECTION

AMORY LAND DESIGN, LLC. 26B STRONG STREET NEWBURYPORT, MA 01950-2324

TROPIC STAR CONVENIENCE

Project Address: Calef Highway (Route 12)
Barlington, Item Hamashie
Project Issue Date:
Project Number: 11-011.00
Project State:
Coordination and Approval
Evaluated By: Howard Sinydor

LAND USE OFFICE

JAN 28 2014

RECEIVED

APPROVED

PLANNING BOARD

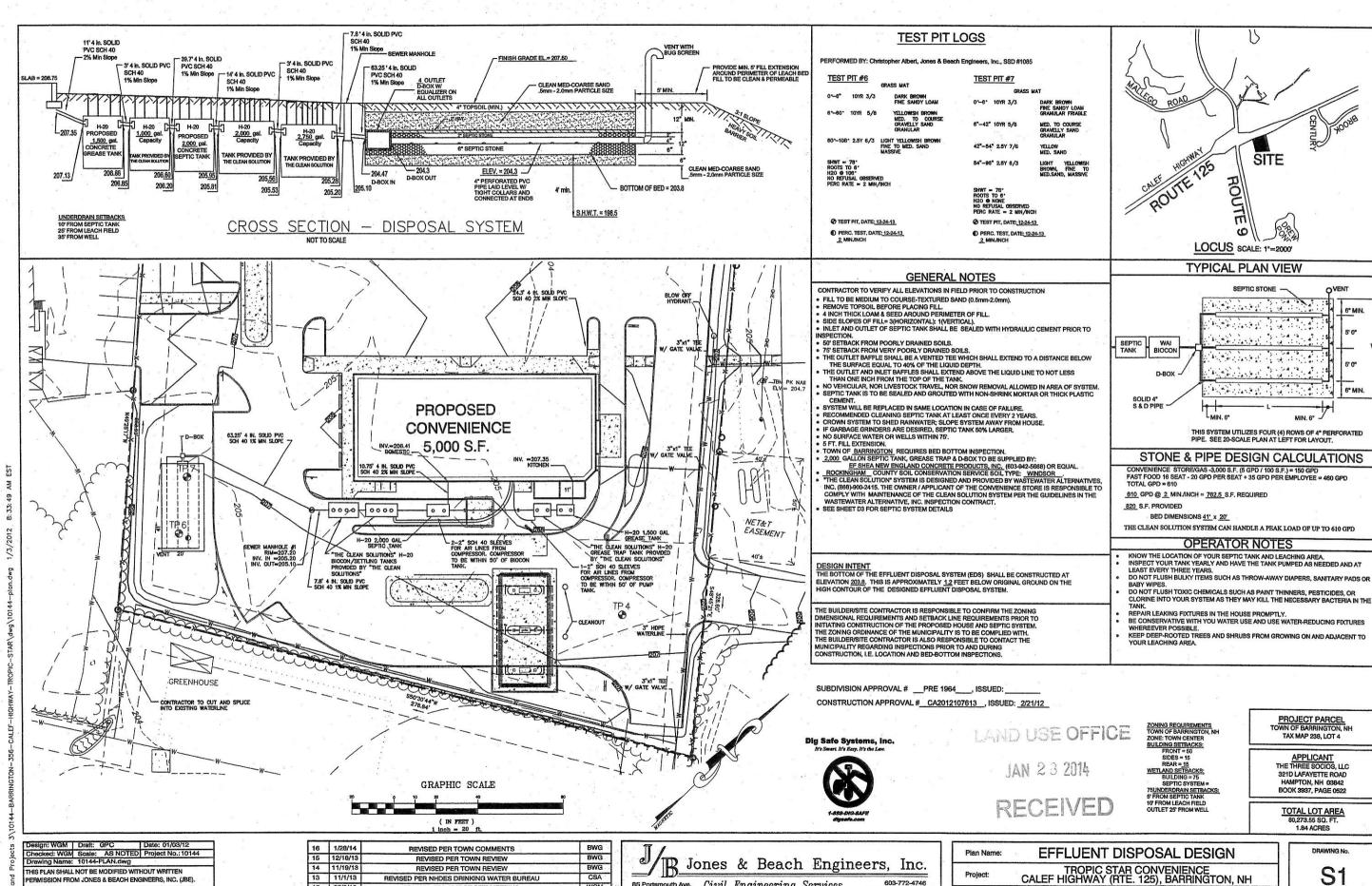
DATE:

DELTA ISSUE TITLE

LANDSCAPE
SHOWARD L.

SPECS L5.0

17 of 21



REVISED PER TOWN REVIEW

REVISED PER NHDES DRINKING WATER BUREAU

REVISED PER NHDOT SITE MEETING

REVISION

CSA

WGM ·

BY

85 Portsmouth Ave. Civil Engineering Services

13 11/1/13

12 08/2/13

REV. DATE

S1

SHEET 18 OF 23 E PROJECT NO. 10144

Project:

E-MAIL: JBE@JONESANDBEACH.COM

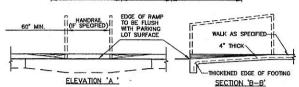
THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN

RMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE)

ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

T THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



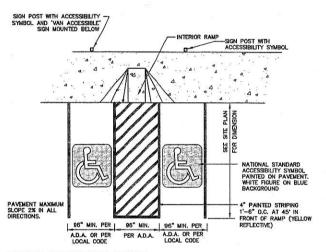
NOTES:

1. RAMP TO CONTAIN 6"x6" W1.4xW1.4 W.W.F. EXTENDING INTO FOOTING 2. RAMP TO BE OF CONTRASTING COLOR TO WALK AND PAVEMENT.

3. HANDRAIL TO BE INSTALLED ONLY IF REQUIRED BY LOCAL CODE.

HANDICAP ACCESS RAMP

NOT TO SCALE

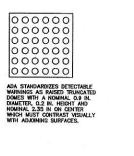


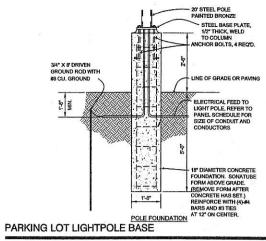
HANDICAP PARKING LAYOUT

NOT TO SCALE

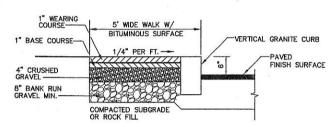
1. AS AN ALTERNATIVE TO POST MOUNTING, SIGN MAY BE BUILDING MOUNTED.

SIGN NUMBER	SIGN	-	f sign Height	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT	REMARKS
R1-1	STOP	30°	30"	WHITE ON RED	CHANNEL	7'-0"	REFLECTORIZED SIGN
R3-8 (134)	`#	36*	30°	BLACK ON WHITE	CHANNEL	7'0"	REFLECTORIZED SIGN
R7-8	E.	12"	24"	BLUE & GREEN ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R7-8A	(VAH.)	12"	6"	BLUE & GREEN ON WHITE	CHANNEL	5'-0"	REFLECTORIZED SIGN
R14-1	TRUCK ROUTE	24"	18"	BLACK ON WHITE	CHANNEL	7-0-	REFLECTORIZED SIGN
R51		30"	30"	RED / SILVER	CHANNEL	7'-0"	REFLECTORIZED SIGN
R61	CHE WAY	36"	12"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R4-7	2	18"	24"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
W4-2L	(A)	24"	24°	BLACK ON YELLOW	CHANNEL	7'-0"	REFLECTORIZED SIGN



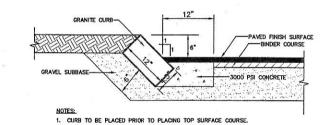


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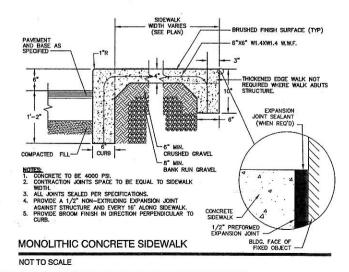
BIT. SIDEWALK w/VERTICAL GRANITE CURB

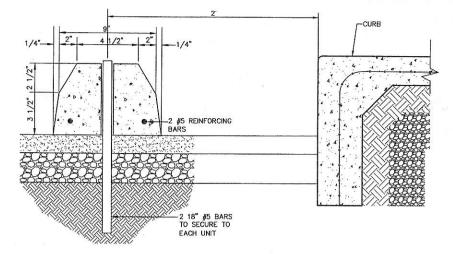
NOT TO SCALE



SLOPED GRANITE CURB

NOT TO SCALE

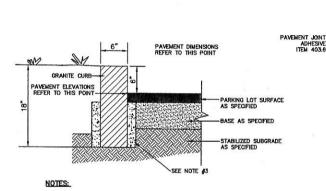




CROSS SECTION

PRECAST CONCRETE WHEEL STOP

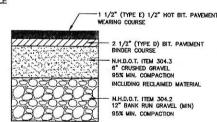
NOT TO SCALE



- 1. JOINTS BETWEEN STONES SHALL BE MORTARED.
- 2. EDGING TO BE PLACED PRIOR TO PLACING TOP SURFACE COURSE.
- CONTRACTOR TO SET CURBING, PLACE 2"-3" OF 3,000 PSI CONCRETE ON EACH SIDE AND BRIDGE CONCRETE UNDER CURBING

6" VERTICAL GRANITE CURB

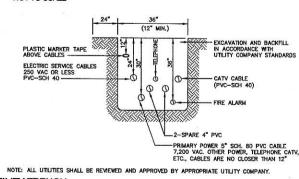
NOT TO SCALE



95% COMPACTED SUBGRADE OR ROCK FILL

BITUMINOUS PAVEMENT

NOT TO SCALE



UTILITY TRENCH

NOT TO SCALE

N.H. ROUTE 9 LANE EXPANSION: JOINT DETAIL

NOT TO SCALE

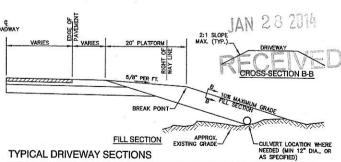
5' WDE WALK W/ BRUSHED FINISH SURFACE (TYP.) 5" REINFORCED CONC. CLASS AA (4000 PSI) -6"x6" W1.4xW1.4 W.W.F. VERTICAL GRANITE CHER 1/4" PER FT. 5" CONCRETE 6" CRUSHED GRAVEL ----

PER CROSS-SECTIONS ITEM 304.4 CRUSHED STONE (FINE)

SPECIFICATIONS.
PROVIDE A 1/2" NON-EXTRUDING
EXPANSION JOINT AGAINST
STRUCTURE AND EVERY 16" ALONG
SIDEWALK.
PROVIDE BROOM FINISH IN
DIRECTION PERPENDICULAR TO
CURB.

CONCRETE SIDEWALK W/ VERTICAL GRANITE CURB

NOT TO SCALE



NOT TO SCALE

DETAIL SHEET Plan Name: TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH Project: THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 Owner of Record:

D1 SHEET 19 OF 23 JBE PROJECT NO. 10144

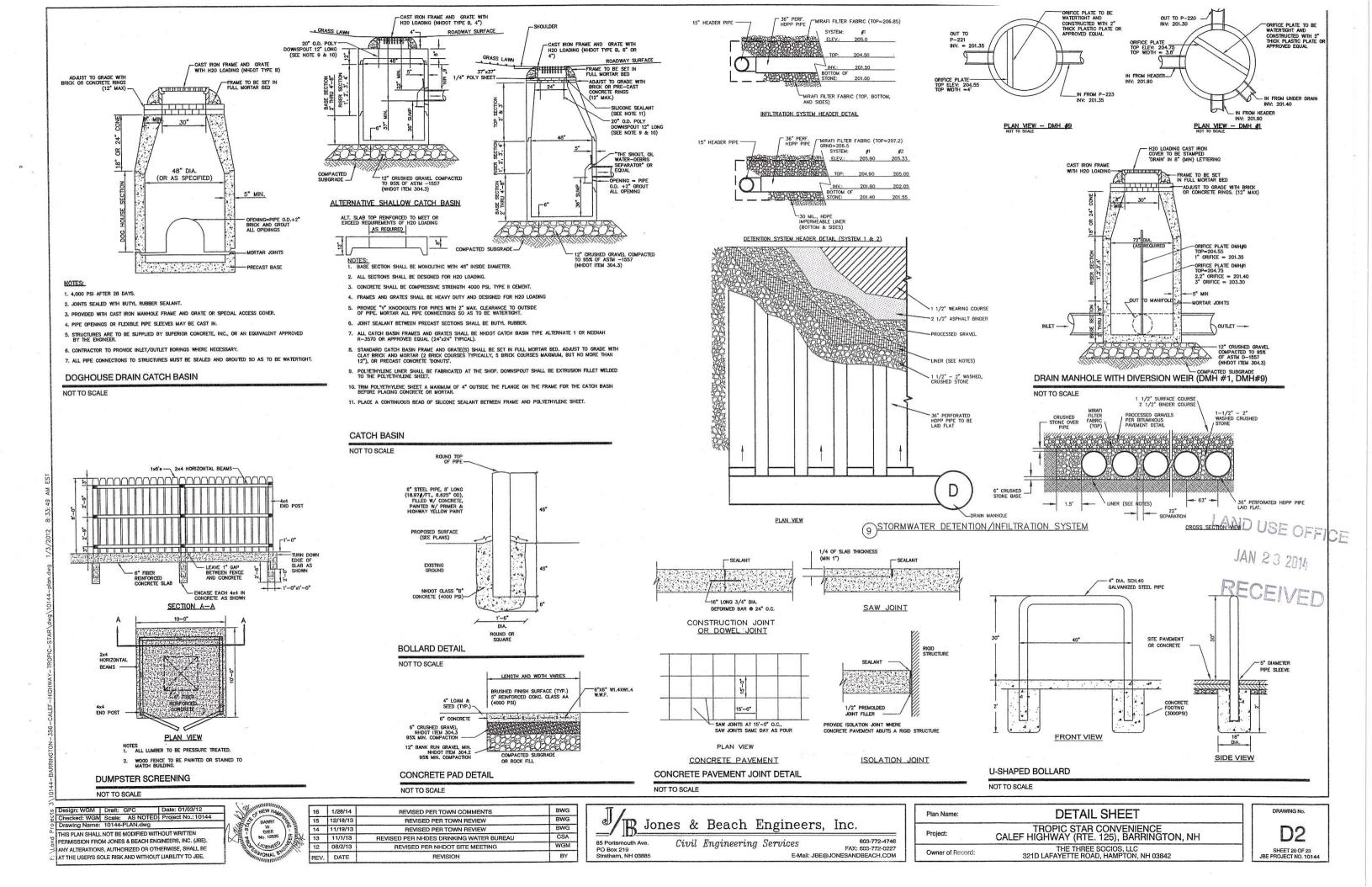
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

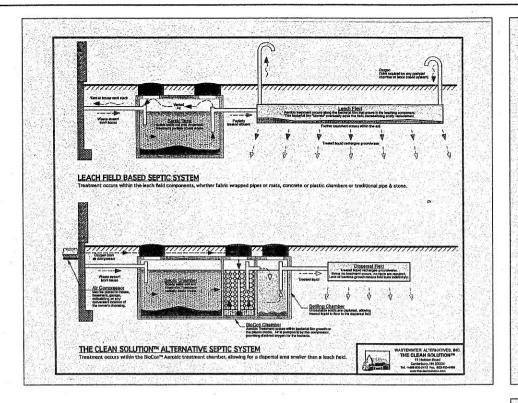


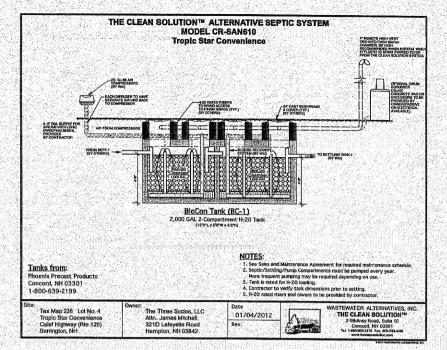
	REV.	DATE	REVISION	BY
	12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
	13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
	14	11/19/13	REVISED PER TOWN REVIEW	BWG
	15	12/18/13	REVISED PER TOWN REVIEW	BWG
	16	1/28/14	REVISED PER TOWN COMMENTS	BWG

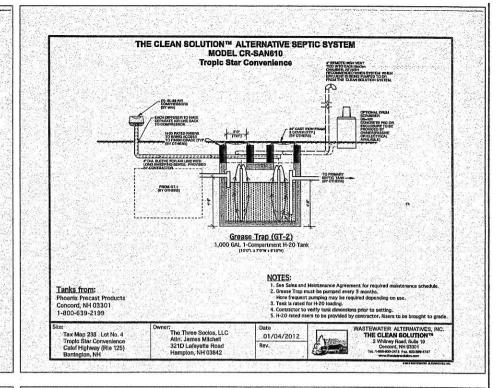
Jones & Beach Engineers, Inc. 85 Portsmouth Ave.

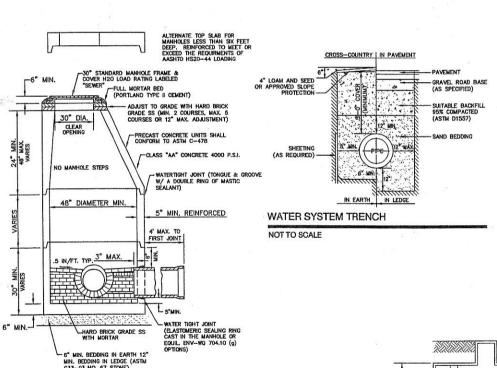
Civil Engineering Services 603-772-4746 FAX: 603-772-0227 E-Mail: JBE@JONESANDBEACH.COM

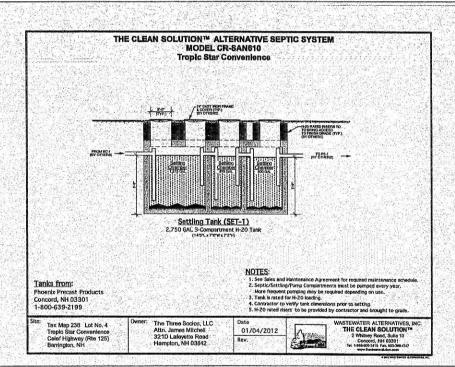


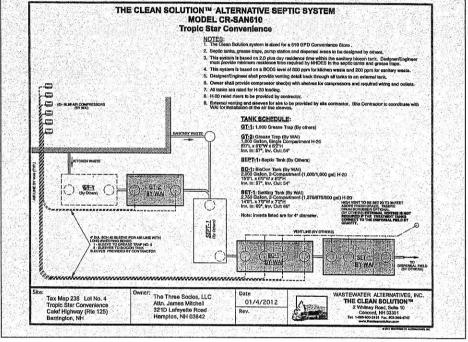


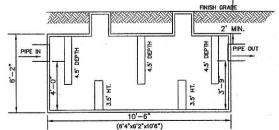












OIL/GREASE SEPARATOR AND SEDIMENTATION TRAP

85 Portsmouth Ave.

PO Box 219 Stratham, NH 03885

- SUPERIOR CONCRETE ITEM NO. 11066 (OR APPROVED EQUAL). LIQUID CAPACITY 2000 GALLONS. WT. = 12,500lbs. (PLUS BAFFLES).
- TANK TO BE LAID ON COMPACTED BED OF 12" MIN. CRUSHED GRAVEL. BACK FILL WITH 3" MINUS GRAVEL COMPACTED.
- 4. PROVIDE 3' MIN. COVER OVER PIPES.

NOT TO SCALE

Owner of Record:

-BRASS CLEANOUT PLUG 12" SQUARE CONCRETE PAD, 8" THICK LAND USE OFFICE ASTM D3034-SDR 35 6"
PVC UNDERDRAIN
(REFER TO PLANS FOR DIAMETER) TWO-6"-1/16 (221) STREET ELS JAN 23 2014 LOW END 1. PLACE CLEANOUT AS SHOWN ON PLAN.
2. ALL CLEANOUTS ARE 6" ONLY.
3. CLEANOUT FACES UPSTREAM.
CLEAN-OUT DETAIL - 6"x6"" PVC WYE (GASKETED)

SEV	VER	MAN	ıно	LE
	_	-		-
NOT	TO	TALE		

Date: 01/03/12 Design: WGM | Draft: GPC Design: WGM | Draft: GPC | Date: 01/03/12 |
Checked: WGM | Scale: AS NOTED | Project No.: 10144 |
Drawing Name: 10144-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

1. PER NHDES ENV-WO 704.10(K), THE MORTAR SPECIFICATION SHALL BE AS FOLLOWS:
1. MORTAR SHALL BE COMPOSED OF PORTLAND GENENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION;
2. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE AS FOLLOWS:
3. CLEAN OF THE SHALL BE CALENT AND OS PART HYDRATED LIME;
3. CLEAN SHALL BE TYPE I PORTLAND CEMENT CONFORMING TO ASTM C159-15;
4. HYDRATED LIME SHALL BE THE PROPORTIONING TO THE ASTM C207-08 STANDARD SPECIFICATIONS FOR HYDRATED LIME FOR MARKING THE MORTAL CONSTRUCTION OF THE ASTM C207-08 STANDARD SPECIFICATIONS FOR CONFORMING TO THE ASTM C33-03 STANDARD SPECIFICATIONS FOR CONCRETE, FIRE AGGREGATES;



REV.	DATE	REVISION	BY
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
14	11/19/13	REVISED PER TOWN REVIEW	BWG
15	12/18/13	REVISED PER TOWN REVIEW	BWG
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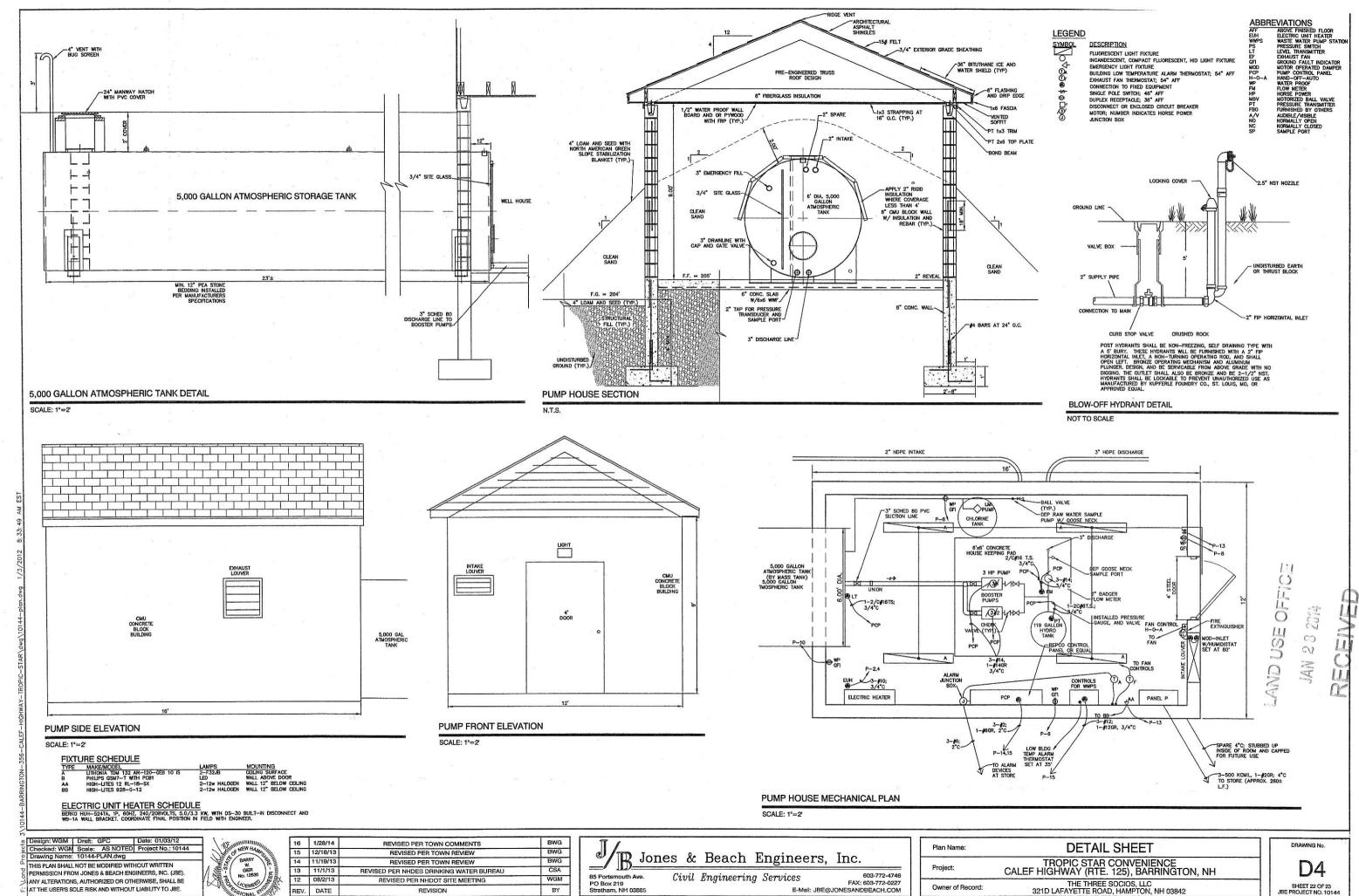
Jones & Beach Engineers, Inc.

Civil Engineering Services

FAX: 603-772-0227 E-Mail: JBE@JONESANDBEACH.COM

Plan Name:	DETAIL SHEET
Project:	TROPIC STAR CONVENIENCE

CALEF HIGHWAY (RTE. 125), BARRINGTON, NH THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 SHEET 21 OF 23 JBE PROJECT NO. 10144



AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



REV.	DATE	REVISION	BY
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
14	11/19/13	REVISED PER TOWN REVIEW	BWG
15	12/18/13	REVISED PER TOWN REVIEW	BWG
16	1/28/14	REVISED PER TOWN COMMENTS	BWG

603-772-4746	Somicos	Engineering	Cinil
FAX: 603-772-0227	Delones	Brigancerary	00000

Plan Name:	DETAIL SHEET	
Project:	TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH	
Owner of Record:	THE THREE SOCIOS, LLC	TI.

- TEMPORARY EROSION CONTROL NOTES

 1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF THAT REQUIRED FOR CONSTRUCTION BE EXPOSED.
- EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5° OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN \$75 ERROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGNEER) ON SPECE GREATER THAN \$1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF BROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORABILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHIDOT ITEM 304.3.

- 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. AMINIMUM OF 85% VECETATED GROWINH HAS BEEN ESTABLISHED;

 C. A MINIMUM OF 3° OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR

 D. EROSION CONTROL BLANKETS HAVE BEEN PROPERTY INSTALLED.
- IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SMPPOR.

 A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED IN INSPECT THE SITE FROM THE STATE OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT").
- B. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY ½ INCH OR GREATER RAIN EVENT (I.E. ½ INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, IT HE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS EVENT.
- D. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.

- CONSTRUCTION SEQUENCE

 1. PRIOR TO THE START OF ANY ACTIVITY, IT IS THE RESPONSIBILITY OF THE SITE'S SITE DEVELOPER (OR OWNER) TO FILE A NOTICE OF INTENT (NO) FORM WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) IN ORDER TO GAIN COVERAGE UNDER THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. A PRE CONSTRUCTION MEETING AT THE TOWNS DISCRETION IS TO BE HELD WITH ALL DEPARTMENT HEADS PRIOR TO THE START OF CONSTRUCTION.
- WETI AND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION
- INSTALL SILT FENCING, HAY BALES AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
- CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
- CONSTRUCT AND/OR INSTALL TEMPORARY OR PERMANENT SEDIMENT AND/OR DETENTION BASIN(S) AS REQUIRED. THESE FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.

- PREPARE BUILDING PAD TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
- 10. INSTALL THE SEPTIC AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
- 12 ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILITATION OF ABUTTING WATERS AND/OR PROPERTY.
- 14. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
- 16. PERFORM ALL REMAINING SITE CONSTRUCTION (I.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
- 17. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (I.e. RIP RAP,
- 19. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 21. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 22. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE, SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 24. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
- 25. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

Date: 01/03/12

SEEDING SPECIFICATIONS

- A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS
- SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED).

 B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

- A. SURFACE AND SEPPACE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING
- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE STIE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

 B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDED AND FERTILIZER AND LIME MIXED INTO THE SOIL THE SECIDED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

- 3. <u>Establishing a Stand.</u>

 A. Lime and fertilizer should be applied prior to or at the time of seeding and incorporated in title soil types and amounts of lime and fertilizer should be based on an evaluation of soil tests. When a soil test is not available, the following minimum amounts should be
 - APPLIED:
 AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT.
 NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT.
 PHOSPHATE(P20S), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT. POTASH(K2O), 100 LBS, PER ACRE OR 2.2 LBS, PER 1,000 SQ.FT.
- (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER
- (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERRILIZER OR 1,000 LBS. PER ACRE OF 5-10-10.)

 SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST ÂPPROPRIATE FOR THE SITE. METHOD MOST ÂPPROPRIATE SUSED, COVER SEED WITH A STANDARD AND A STANDARD STA

MULCH:

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.

B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE.

FOR MULCHING, HAY OR STRAW MULCH SHALL BE PLACED'AT A RATE OF 90 LBS PER 1000 S.F.

- MAINTENANCE TO ESTABLISH A STAND.
 A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED.
- GROWTH.

 B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.

 IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND	A	FAIR	GOOD	GOOD	FAIR
FILLS, BORROW	В	POOR	COOD	FAIR	FAIR
AND DISPOSAL AREAS	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY	A	GOOD	GOOD	GOOD	FAIR
SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	С	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING	A	GOOD	GOOD	GOOD	FAIR
LOTS, ODD AREAS,	В	GOOD	GOOD	FAIR	POOR
UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	С	GOOD	EXCELLENT	EXCELLENT	FAIR
PLAY AREAS AND	E	FAIR	EXCELLENT	EXCELLENT	2/
ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/_

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

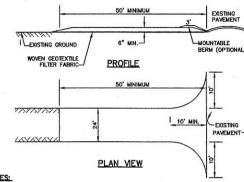
1/ refer to seeding mixtures and rates in table below, 2/ poorly drained soils are not desirable for use as playing area and athletic fields.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LIS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

SEEDING GUIDE

MIXTURE	POUNDS PER ACRE	POUNDS PER 1.000 Sq. Ft
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	_2_	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH	15	0.35
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDS FOOT TREFOIL	_8_	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30_	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60
1/ FOR HEAVY USE ATHLETIC FIEL NEW HAMPSHIRE COOPERATIVE EX- CURRENT VARIETIES AND SEEDING	TENSION TURF SPE	

SEEDING RATES

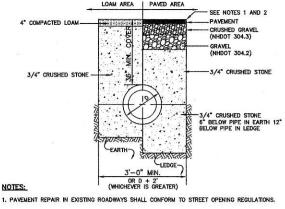


- STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- 3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

- 6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANGS HALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE BERN WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDMENT, ALL SEDMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-AWY MUIST BE REMOVED BROWETT.

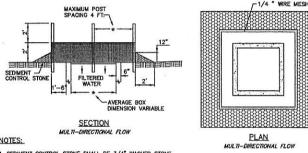
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND TOWN SPECIFICATIONS.
- 3. ALL MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1557.

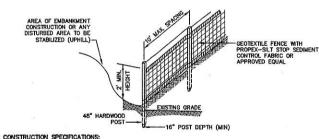
DRAINAGE TRENCH



AULTI1. SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4
INCL MESH SPRINGS.
3. TO MERICEN SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR
ANY DIVERSION FOINT.
4. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM,
AND BE OF THE SELF-FASTENER ANGE. STEEL TYPE.
5. WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM,
AND BE OF INCRS IN DIAMETER.
6. POST SPACING SHALL BE A MAXIMUM OF 4 FT.

INLET PROTECTION

NOT TO SCALE



- Woven Fabric Fence to be fastened securely to fence posts with wire ties or staples, filter cloth shall be fastened to woven wire every 24" At top, mid and bottom and embedded in the ground a minimum of 6" and then covered with soil.
- THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 10" APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE. 5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
- 6. SILT FENCE SHALL REMAIN IN PLACE FOR 24 MONTHS.

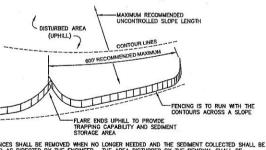
SILT FENCE

NOT TO SCALE

85 Portsmouth Ave

Stratham, NH 03885

PO Box 219



SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DISCREDED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND REVECETATED.

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE 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.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY 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.

Project:

TROPIC STAR CONVENIENCE CALEF HIGHWAY (RTE. 125), BARRINGTON, NH

Plan Name: EROSION AND SEDIMENT CONTROL DETAILS

Checked: WGM Scale: AS NOT Drawing Name: 10144-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

Design: WGM | Draft: GPC



16	1/28/14	REVISED PER TOWN COMMENTS	BWG
15	12/18/13	REVISED PER TOWN REVIEW	BWG
14	11/19/13	REVISED PER TOWN REVIEW	BWG
13	11/1/13	REVISED PER NHDES DRINKING WATER BUREAU	CSA
12	08/2/13	REVISED PER NHDOT SITE MEETING	WGM
REV.	DATE	REVISION	BY

Jones & Beach Engineers, Inc.

Civil Engineering Services E-Mail: JBE@JONESANDBEACH.COM

603-772-4746

THE THREE SOCIOS, LLC 321D LAFAYETTE ROAD, HAMPTON, NH 03842 Owner of Record:

E1 SHEET 23 OF 23 JBE PROJECT NO. 10144

DRAWING No.

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