



NOTES

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- 2) THIS PLAN WAS PREPARED IN PART FROM AN ACTUAL SURVEY MADE ON THE GROUND USING A ZEISS ELTA TOTAL STATION BETWEEN JANUARY 14, 2014 AND JUNE 29, 2014.
- 3) WETLAND FLAGS DELINEATED BY BEALS AND THOMAS, INC. ON JANUARY 14, 2014.
- 4) WETLAND FLAGS LOCATED BY ZEISS ELTA TOTAL STATION METHODS BY BEALS AND THOMAS, INC. ON FEBRUARY 7, 2014.
- 5) ALL ELEVATIONS REFER TO AN ASSUMED DATUM AS SHOWN ON A SITE PLAN SUBMISSION ENTITLED "HOPKINTON HIGH SCHOOL" PREPARED BY MARTINAGE ENGINEERING ASSOCIATES, INC. DATED JUNE 2, 1999.
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- 10) THE PARCEL SHOWN IS LOCATED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), AS SHOWN ON "FLOOD INSURANCE RATE MAP, MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) PANEL 610 OF 656", MAP NUMBER 25017C0610E, EFFECTIVE DATE JUNE 4, 2010.

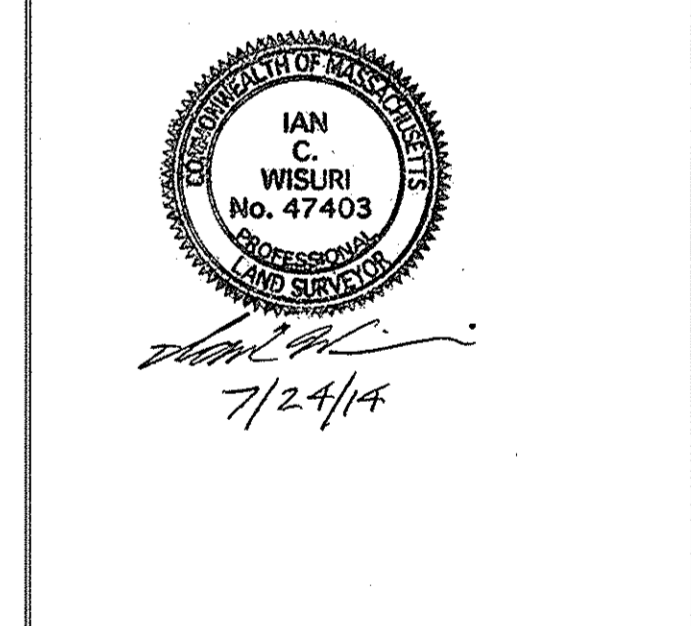
LEGEND

	OVERHEAD WIRE
	UTILITY POLE
	BITUMINOUS CONCRETE BERM
	TREE
	TREE LINE
	STONE WALL
	BUILDING
	BOUNDARY OF BORDERING VEGETATED WETLAND
	CERTIFIED VERNAL POOL
	100' WETLAND BUFFER ZONE
	75' NO BUILD ZONE
	50' NO DISTURB
	125' VERNAL POOL BUFFER ZONE
	MINOR CONTOUR
	MAJOR CONTOUR
	SPOT ELEVATION
	EDGE OF WATER
	DRILL HOLE
	IRRIGATION CONTROL VALVE
	POST

PREPARED FOR:
HOPKINTON COMMUNITY PRESERVATION COMMITTEE
 TOWN HALL
 HOPKINTON, MASSACHUSETTS
 01748

RECORD OWNER:
THE INHABITANTS OF THE TOWN OF HOPKINTON
 ASSESSORS PARCEL U-21-3-0
 DEED BOOK 25962 PAGE 264

5		
4		
3		
2	07/23/2014	FOR DATE ONLY
1	07/14/2014	TRAIL UPDATE
0	05/01/2014	INITIAL ISSUE
	ISSUE DATE	DESCRIPTION
JJ/CEM	ICW	ICW
FLD	CALC	DWN
	CHK'D	



TOPOGRAPHIC PLAN
HOPKINTON CENTER TRAIL
 (MIDDLESEX COUNTY)

PREPARED BY:
BEALS + THOMAS
 Civil Engineers + Landscape Architects +
 Land Surveyors + Planners +
 Environmental Specialists

BEALS AND THOMAS, INC.
 Reservoir Corporate Center
 144 Turnpike Road
 Southborough, Massachusetts 01772-2104
 T 508.366.0560 | www.btiweb.com

DATE: MAY 1, 2014
 0 5 10 25 METERS
 0 20 40 80 FEET
 SCALE: 1" = 40'

B+T JOB NO. 2335.01
 B+T PLAN NO. 2335P006C-001
 SHEET 1 OF 5

C1.1



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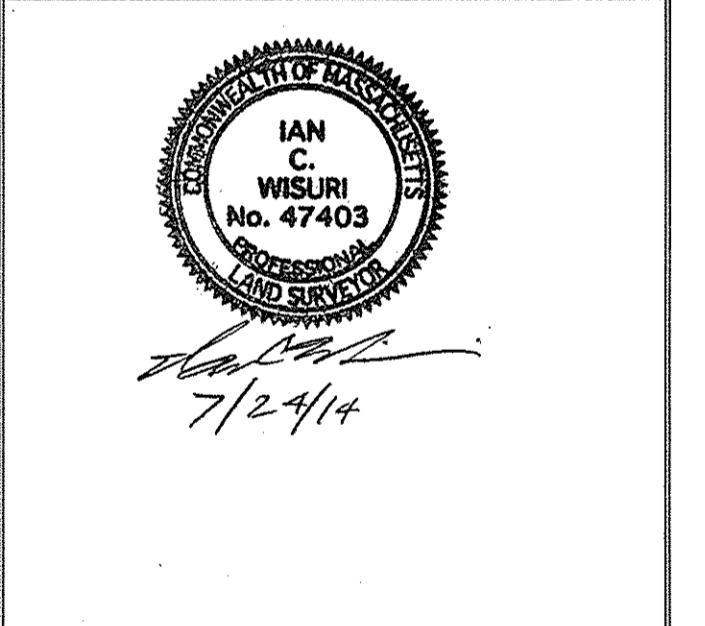
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	UTILITY POLE
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PREPARED FOR:
**HOPKINTON
 COMMUNITY
 PRESERVATION
 COMMITTEE**
 TOWN HALL
 HOPKINTON, MASSACHUSETTS
 01748

RECORD OWNER:
**THE INHABITANTS
 OF THE TOWN OF
 HOPKINTON**
 ASSESSORS PARCEL U-21-3-0
 DEED BOOK 25962 PAGE 264

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0	05/01/2014	INITIAL ISSUE
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JJ/CEM	ICW	ICW
FLD	CALC	DWN
	CHK'D	



TOPOGRAPHIC PLAN

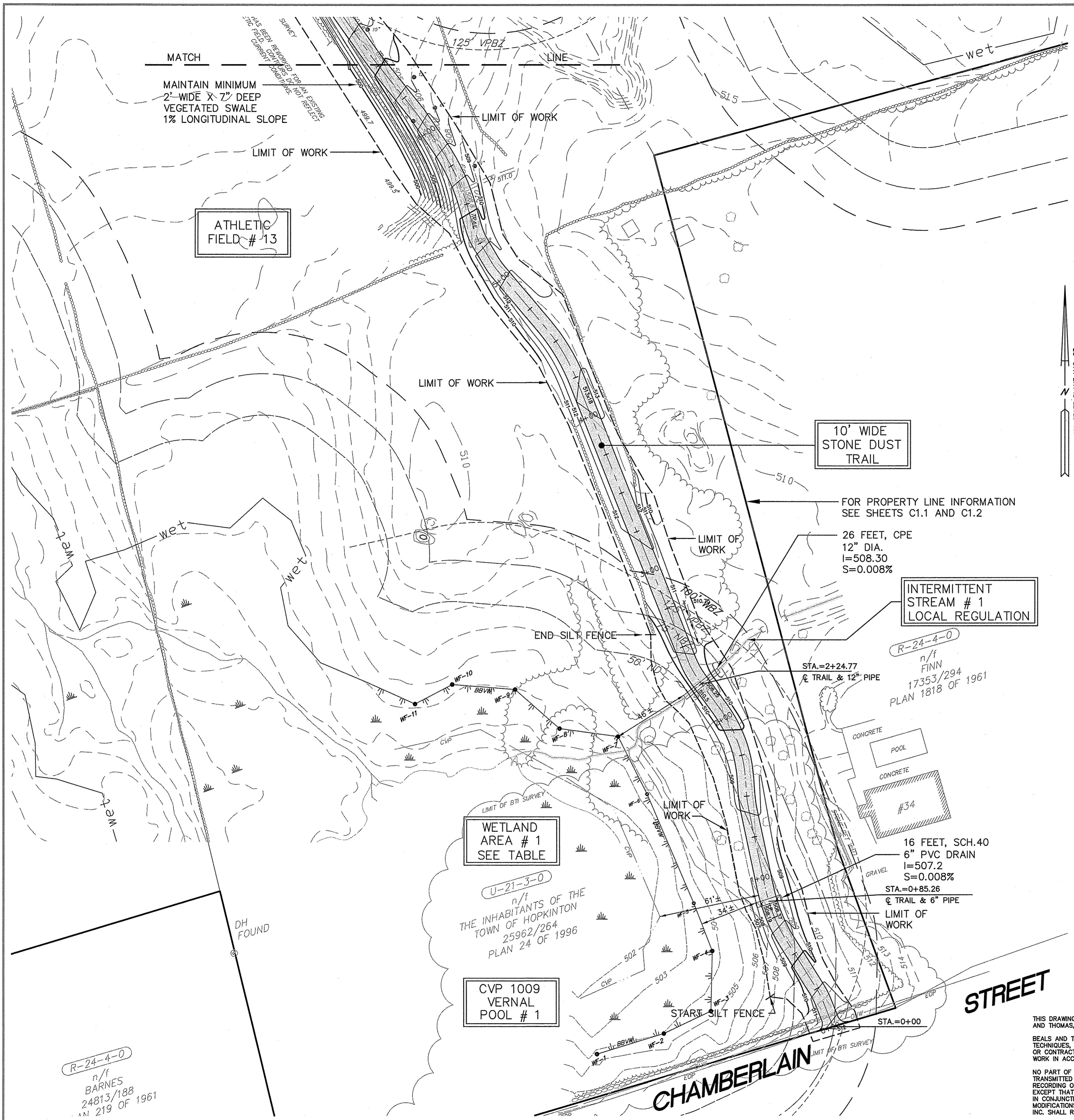
**HOPKINTON
 CENTER TRAIL**
 (MIDDLESEX COUNTY)

PREPARED BY:
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 Civil Engineers + Landscape Architects +
 Land Surveyors + Planners +
 Environmental Specialists

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DATE: MAY 1, 2014 METERS
 0 5 10 25
 SCALE: 1"=40' FEET
 0 20 40 80 120

B+T JOB NO. 2335.01
 B+T PLAN NO. 2335P008C-002
C1.2
 SHEET 2 OF 5



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LEGEND

- OVERHEAD WIRE
- UTILITY POLE
- BITUMINOUS CONCRETE BERM
- TREE
- TREE LINE
- STONE WALL
- BUILDING
- BOUNDARY OF BORDERING VEGETATED WETLAND
- CERTIFIED VERNAL POOL
- 100' WBZ
- 75' NBZ
- 50' ND
- 125' VPBZ
- 124
- 130
- x125.4
- ⊙ DH
- ICV
- P

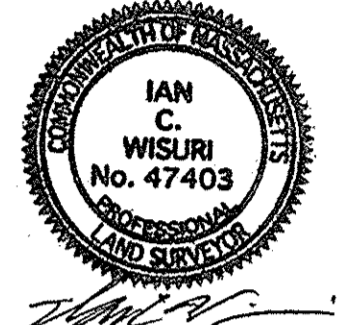
WETLAND TABLE

WETLAND AREA # 1		WETLAND AREA # 2	
FLAG #	COORDINATES	FLAG #	COORDINATES
WF-1	Northing : 2901695.6291' Easting : 649852.1013'	WF-1	Northing : 2902411.1238' Easting : 649786.7184'
WF-2	Northing : 2901707.9466' Easting : 649892.5758'	WF-2	Northing : 2902433.7916' Easting : 649753.4082'
WF-3	Northing : 2901707.9466' Easting : 649892.5758'	WF-3	Northing : 2902462.1532' Easting : 649732.6985'
WF-4	Northing : 2901757.6533' Easting : 649921.8785'	WF-4	Northing : 2902484.2416' Easting : 649718.1995'
WF-5	Northing : 2901786.4251' Easting : 649910.6835'	WF-5	Northing : 2902501.4210' Easting : 649695.4314'
WF-6	Northing : 2901852.2183' Easting : 649882.3982'	WF-6	Northing : 2902469.4299' Easting : 649681.2790'
WF-7	Northing : 2901887.0077' Easting : 649884.7960'	WF-7	Northing : 2902485.0072' Easting : 649665.8867'
WF-8	Northing : 2901891.8545' Easting : 649829.3852'	WF-8	Northing : 2902505.2476' Easting : 649671.9367'
WF-9	Northing : 2901915.4133' Easting : 649802.3924'	WF-9	Northing : 2902532.1148' Easting : 649688.3324'
WF-10	Northing : 2901918.4062' Easting : 649764.4084'	WF-10	Northing : 2902616.5901' Easting : 649627.1765'
WF-11	Northing : 2901906.6879' Easting : 649741.9378'	WF-11	Northing : 2902630.1052' Easting : 649617.3615'
		WF-12	Northing : 2902640.6297' Easting : 649583.1667'
		WF-13	Northing : 2902672.1709' Easting : 649575.5065'
		WF-14	Northing : 2902654.6826' Easting : 649607.4696'
		WF-15	Northing : 2902656.3573' Easting : 649626.2672'

PREPARED FOR:

HOPKINTON COMMUNITY PRESERVATION COMMITTEE

TOWN HALL
HOPKINTON, MASSACHUSETTS
01748



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4	
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1	
0	07/23/2014 FIRST ISSUE
ISSUE DATE DESCRIPTION	
JRA	JRA
DES	DWN
	CHK'D
	APP'D

PROJECT: HOPKINTON CENTER TRAIL (PHASE 2) HOPKINTON, MASSACHUSETTS

SCALE: 1"=30' DATE: JULY 23, 2014

TRAIL LAYOUT PLAN

BTI JOB NO. 2335.01
BTI PLAN NO. 233501P007A-001
SHEET 3 OF 5

C2.1

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION BY BEALS AND THOMAS, INC.

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ASSESSOR'S MAP # U-21-3-0
BOOK 25962, PAGE 264
PLAN # 24 OF 1996

R-24-4-0
n/f
BARNES
24813/188
AN 219 OF 1961

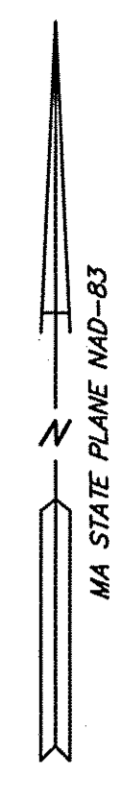
U-21-3-0
n/f
THE INHABITANTS OF THE TOWN OF HOPKINTON
25962/264
PLAN 24 OF 1996

R-24-4-0
n/f
FINN
17353/294
PLAN 1818 OF 1961

PREPARED FOR:

HOPKINTON COMMUNITY PRESERVATION COMMITTEE

TOWN HALL
HOPKINTON, MASSACHUSETTS
01748



7/24/14



7/24/2014

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ISSUE DATE	DESCRIPTION		
JRA	JRA	REW	REW
DES	DWN	CHK'D	APP'D

PROJECT:
HOPKINTON CENTER TRAIL (PHASE 2)
HOPKINTON, MASSACHUSETTS

SCALE: 1"=30' DATE: JULY 23, 2014
METERS
0 5 10 25 30
FEET
0 15 30 60 90

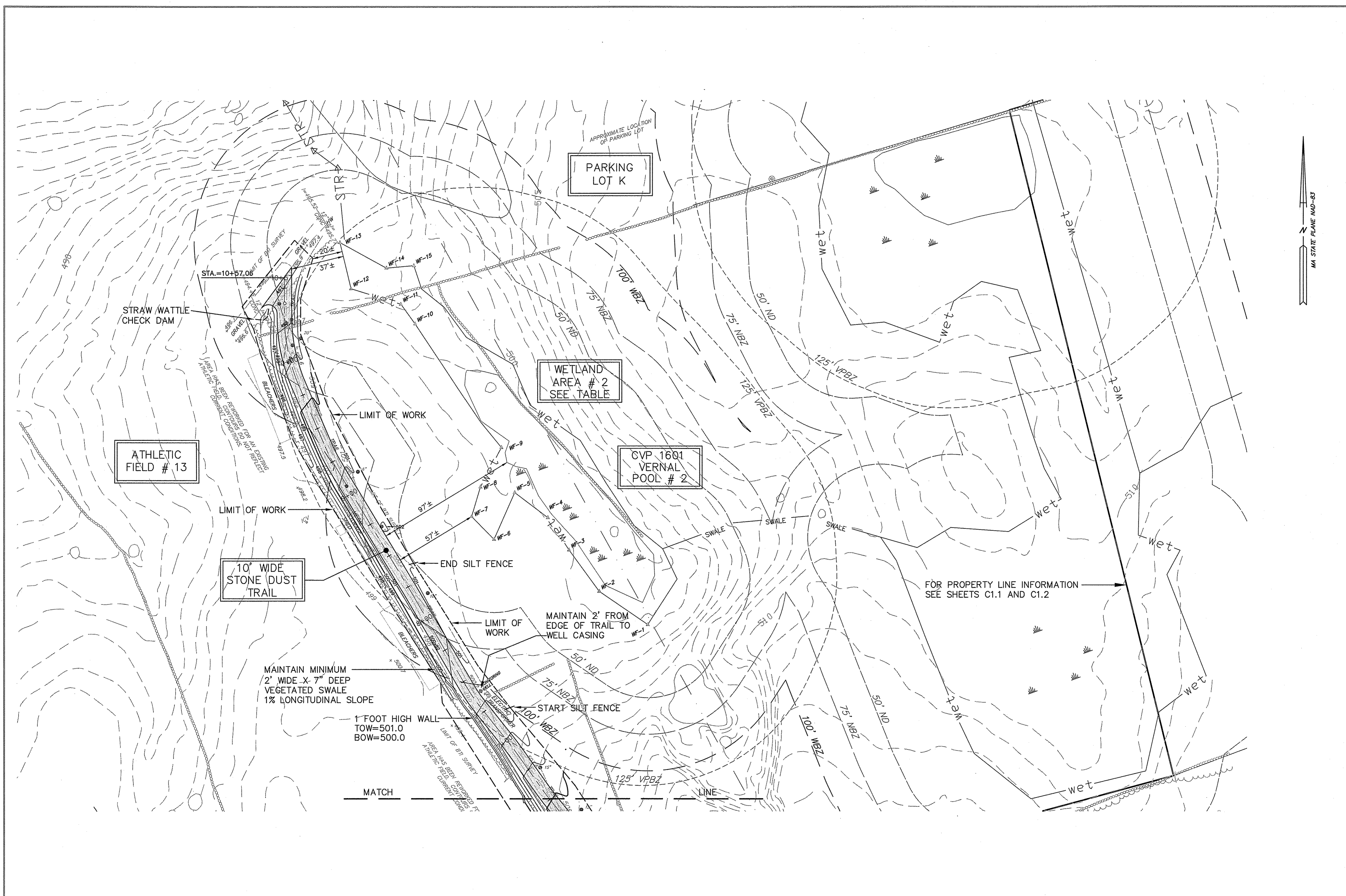
TRAIL LAYOUT PLAN

BTI JOB NO. 2335.01

BTI PLAN NO. 233501P007A-002

C2.2

SHEET 4 OF 5



FOR NOTES, REFERENCES AND LEGEND SEE SHEET C2.1
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GENERAL NOTES

TOPOGRAPHIC SURVEY BY GREENMAN-PEDERSEN, INC. (MARCH, 2002) AND BY GUERRIERE AND HALNON, INC (APRIL, 2011).
 CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
 LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, LIMIT OF GRADING AND SITE PROPERTY LINES AND/OR AS INDICATED ON DRAWINGS.

PORTIONS OF THE ROADWAY, SIDEWALK AND ROADSIDE AREA DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL PRIOR TO DISTURBANCE.

CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCE DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

NEW EXCAVATION AND TRENCH SAFETY REGULATIONS ARE IN EFFECT AS OF MARCH 1, 2010. (REFER TO 520 CMR 14.00) ALL EXCAVATORS OR CONTRACTORS MUST OBTAIN A TRENCH PERMIT PRIOR TO ANY CONSTRUCTION RELATED TRENCHES ON SITE.

LAYOUT AND MATERIALS NOTES

ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION.

PROTECT EXISTING PROPERTY MONUMENTS AND ADJUTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

GRADING, DRAINAGE AND UTILITY NOTES

UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.

UTILITIES, PIPES OR OTHER STRUCTURES DAMAGED BY THE OPERATION OF THE CONTRACTOR SHALL BE REPAIRED. THE COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR THE DAMAGE TO MUNICIPALLY OWNED UTILITIES AND NOT THE OWNER.

AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.

AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS. PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.

ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS OF DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLES ARE APPROXIMATE.

AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS SHOWN ON THE PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.

THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL BARRIERS AFTER REVEGETATION OF DISTURBED AREAS AND AFTER APPROVAL OF THE CONSERVATION COMMISSION AND WETLAND SPECIALIST.

EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AN AREA INDICATED BY THE OWNER.

PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WORK.

THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

EROSION CONTROL AND SEDIMENTATION NOTES

AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED WORK AS INDICATED IN THE PLAN PRIOR TO THE COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.

CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING ENTIRE CONSTRUCTION PERIOD.

ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF SITE.

PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.

SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.

ALL TOPSOIL ENCOUNTERED WITHIN WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE DISPOSED OF ON SITE AS DIRECTED BY OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

MATERIALS TO BE USED FOR SLOPE TREATMENT THAT ARE TO BE STOCKPILED FOR AN EXTENDED PERIOD SHALL BE STABILIZED WITH SEED OR METHOD APPROVED BY THE ENGINEER.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.

CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER. DUST SHALL BE CONTROLLED BY SPRINKLING WATER OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE WETLANDS.

CLEAN AND MAINTAIN EROSION CONTROL BARRIER AS REQUIRED DURING CONSTRUCTION OPERATIONS TO ENSURE ITS CONTINUED FUNCTIONALITY.

PLANTING NOTES

LOAM AND SEED ALL DISTURBED AREAS WITH GRASS UNLESS OTHERWISE INDICATED.

PEAT AND ORGANIC MATERIAL STRIPPED FROM AN ALTERED WETLAND IS TO BE PROPERLY STOCKPILED AND USED FOR PREPARATION OF PROPOSED SWALE AREA. WETLAND SEED SHALL BE FRESH, RECLAIMED SEED OF THE LATEST CROP. WETLAND SEED SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL CONTAINERS WHICH SHALL BEAR THE VENDOR'S GUARANTEE OF ANALYSIS.

TOPSOIL SHALL BE SPREAD TO A MINIMUM DEPTH OF FOUR (4) INCHES AFTER SETTING ON ALL STRIPPED PLANTED AREAS INCLUDING SLOPE STABILIZATION, LAWN AREAS AND PLANTING BEDS AFTER FILLS ARE PROPERLY SETTLED AND SUBGRADE HAS BEEN APPROVED BY THE OWNER. THE SETTLED TOPSOIL SHALL BE UP TO THE FINISHED GRADE AS CALLED FOR ON THE DRAWINGS. SCARIFY SUBGRADE TO A DEPTH OF TWO (2) INCHES BEFORE PLACING TOPSOIL.

REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE.

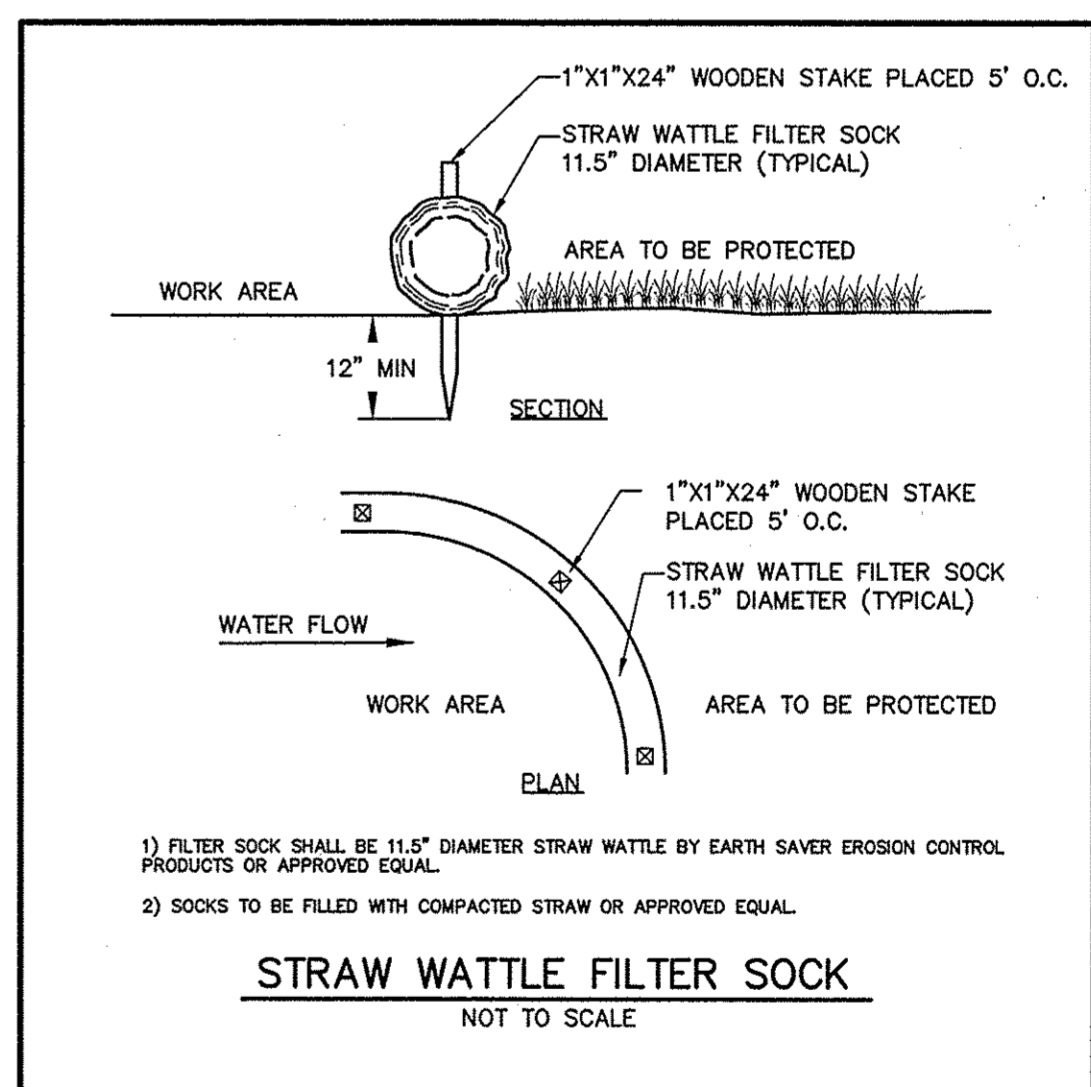
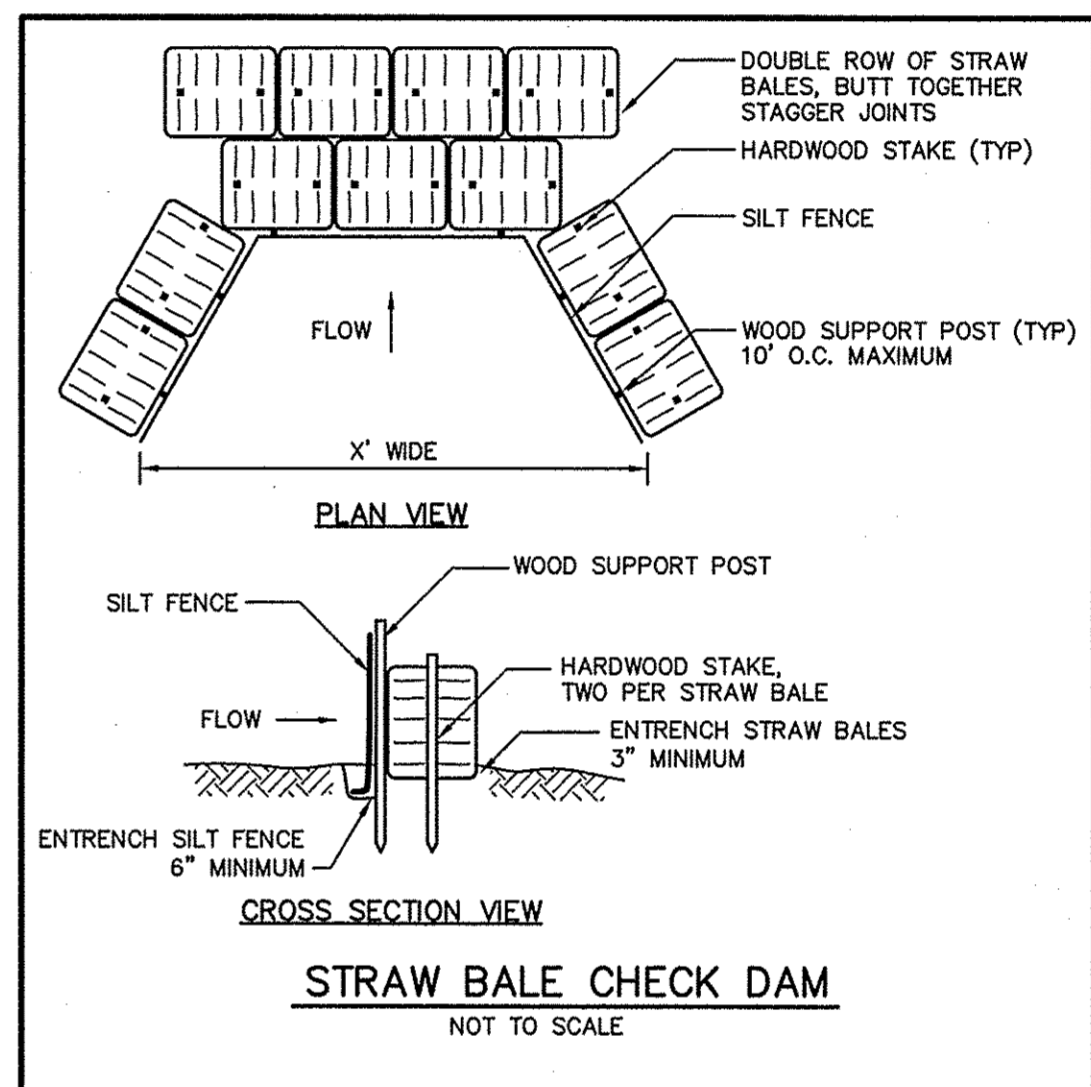
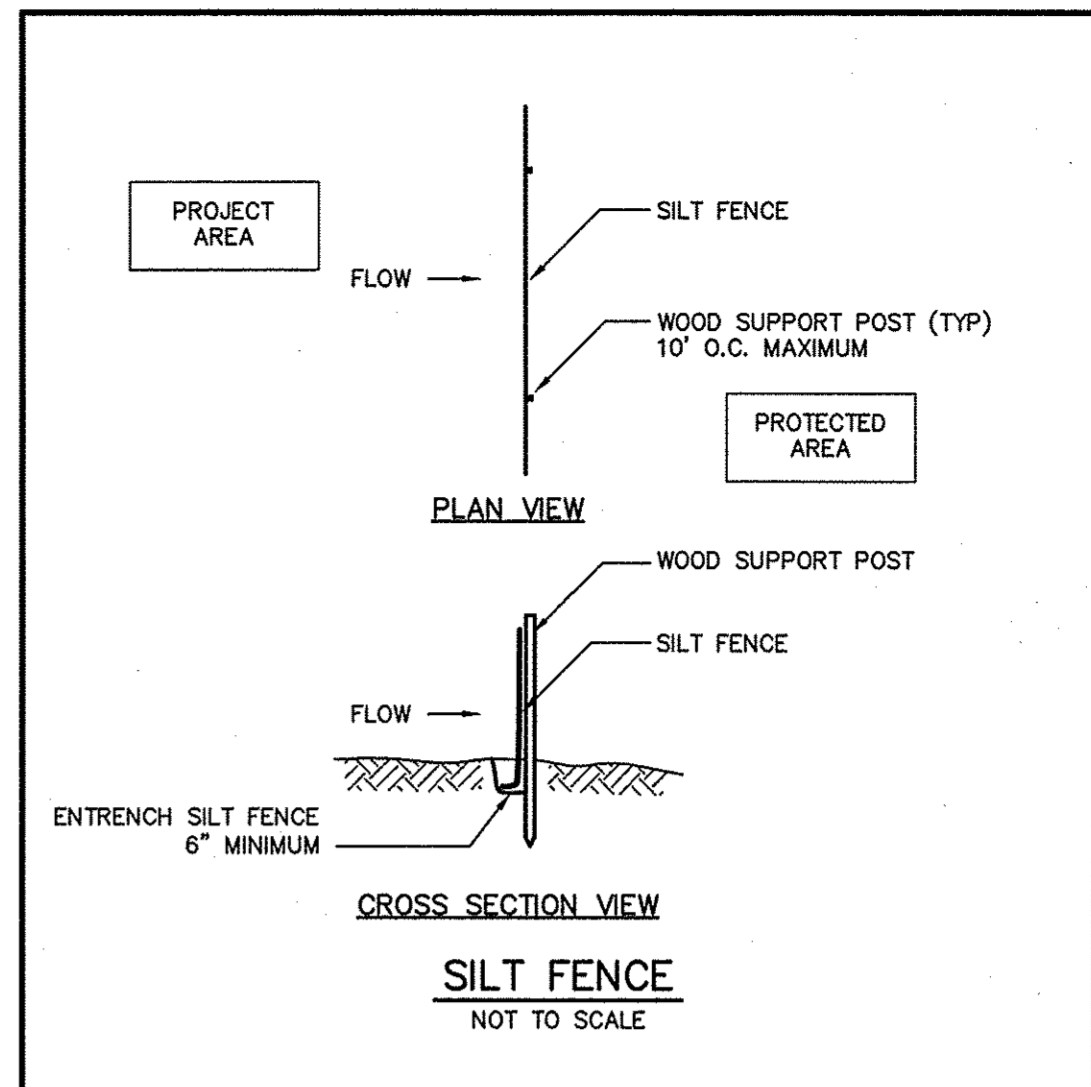
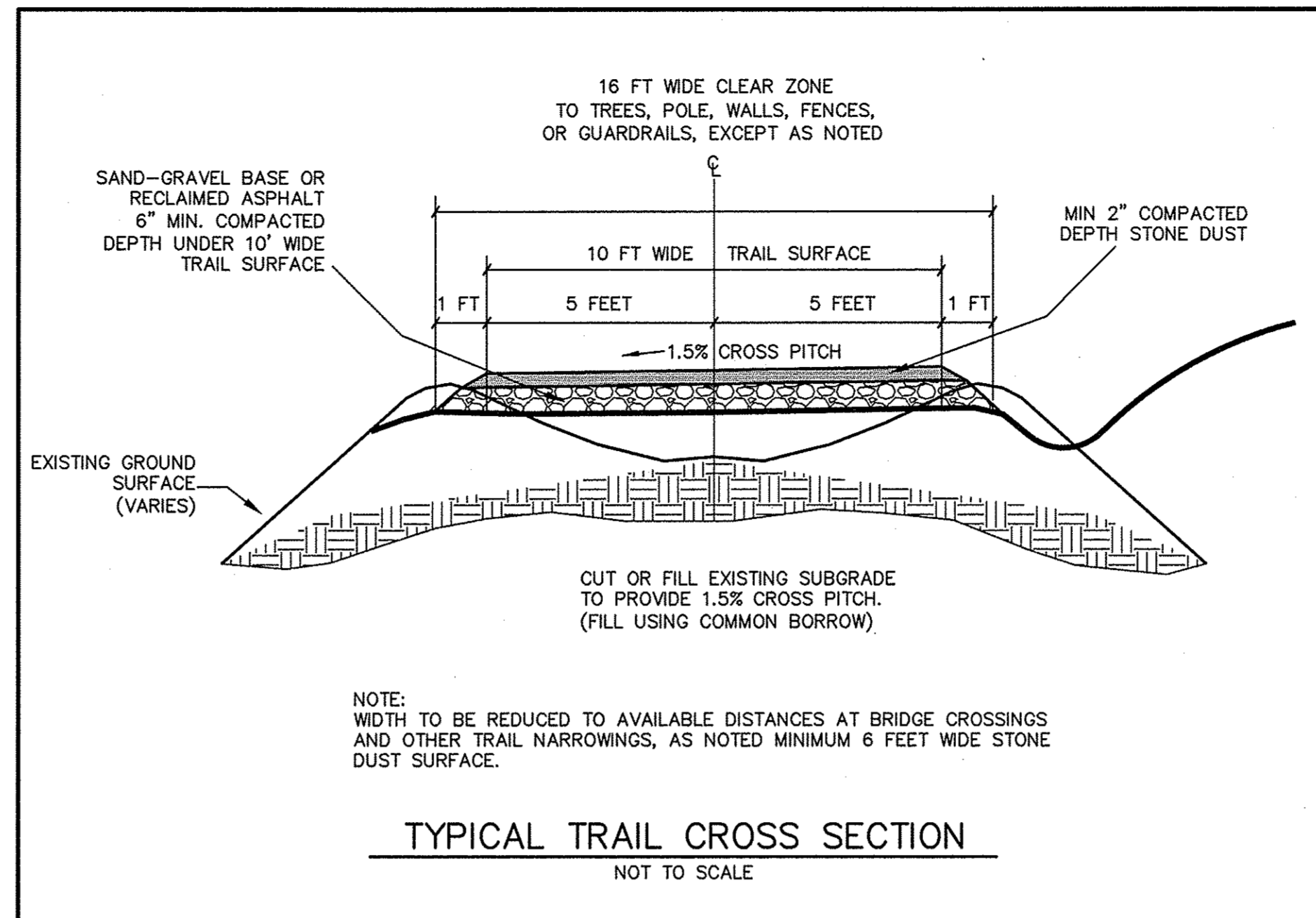
PLANTING SEED SHALL BE SOWN IN SEASONAL CONDITIONS AS APPROPRIATE FOR GOOD SEED SURVIVAL, OR AT SUCH TIMES AS APPROVED BY THE OWNER. PROVIDE SUFFICIENT HOSE AND SPRINKLER HEADS FOR ADEQUATE WATERING TO MAINTAIN A MOIST SEED BED AT ALL TIMES.

CONTRACTOR SHALL INSTRUCT OWNERS REPRESENTATIVE ON APPROPRIATE WATERING PROCEDURES DURING INITIAL ESTABLISHMENT.

IF CERTAIN LAWN AREAS DO NOT SHOW A PROMPT "CATCH", THESE SHALL BE RESEED AT THE SAME RATE AND IN THE SAME MANNER AS BEFORE IN INTERVALS OF TEN (10) DAYS, WHICH PROCESS SHALL CONTINUE UNTIL A GROWTH OF GRASS IS ESTABLISHED OVER THE ENTIRE AREA.

PROTECT NEWLY TOPSOILED, GRADED AND/OR SEEDED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS RESULTING FROM LANDSCAPE CONTRACTOR OPERATIONS.

REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO THE SPECIFIED GRADE AND TOLERANCES.

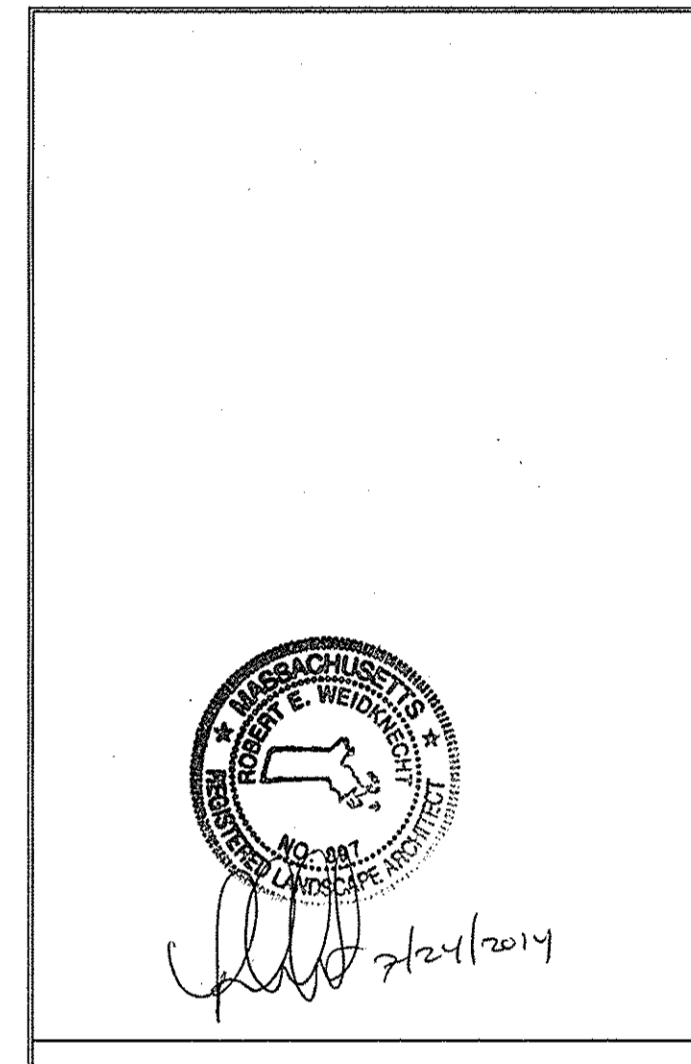


FOR NOTES, REFERENCES AND LEGEND SEE SHEET C1.1
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PREPARED FOR:

HOPKINTON COMMUNITY PRESERVATION COMMITTEE

TOWN HALL
 HOPKINTON, MASSACHUSETTS
 01748



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PREPARED BY:



BEALS AND THOMAS, INC.
 Reservoir Corporate Center
 144 Turnpike Road
 Southborough, Massachusetts 01772-2104
 T 508.366.0560 | www.btweb.com

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HOPKINTON CENTER TRAIL (PHASE 2)
 HOPKINTON, MASSACHUSETTS

SCALE: AS NOTED DATE: JULY 23, 2014

TRAIL DETAILS

BTI JOB NO. 2335.01
 BTI PLAN NO. 233501P007A-003
 SHEET 5 OF 5

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