# NOTICE OF INTENT

LILLOOET CHEESERY
BOXFORD, MA.

PREPARED FOR

LILLOET CHEESERY
42 TOPSFIELD ROAD
BOXFORD, MA 01921
MAP 33 - BLOCK I - LOTS 16, 16.1, \$ 16.2

## INDEX OF SHEETS

SHEET | OF 7 CI - COVER SHEET

SHEET 2 OF 7 C2 - EXISTING CONDITIONS PLAN (DONOHOE SURVEY)

SHEET 3 OF 7 C3 - SITE PLAN

SHEET 4 OF 7 C4 - SITE PLAN

SHEET 5 OF 7 C5 - CROSS SECTIONS & CROSSING DETAILS

SHEET 6 OF 7 C6 - SITE & UTILITY DETAILS

SHEET 7 OF 7 C7 - EROSION CONTROL DETAILS

#### CONSULTANTS-DESIGN TEAM:

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# CIVIL ENGINEER: ASB DESIGN GROUP, LLC 363 BOSTON STREET TOPSFIELD MA 01983

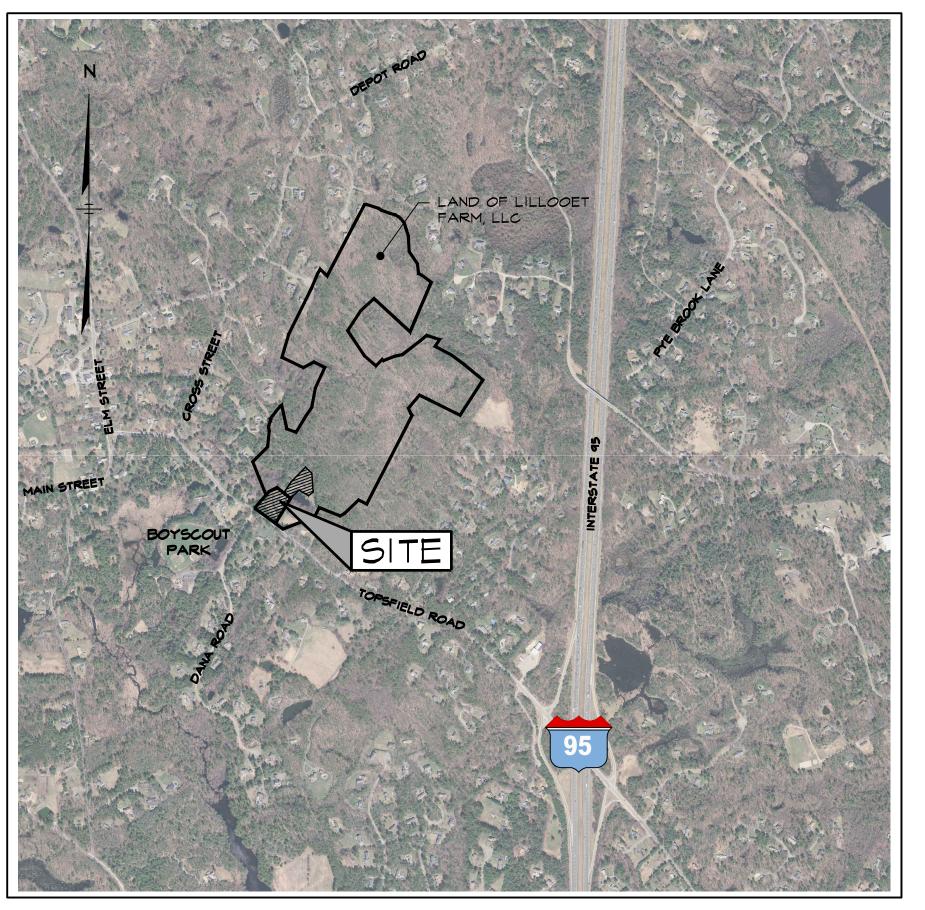
978.887.6161

SURVEYOR:
DONOHOE SURVEY, INC.
363 BOSTON STREET
TOPSFIELD MA 01983
978.887.6161

WETLANDS:
RIMMER ENVIRONMENTAL
CONSULTING, LLC
30 GREEN STREET
NEWBURYPORT MA 01950
978.463.9226

#### PROJECT BENCHMARK:

CUT-SPIKE IN FENCE NEAR EXISTING BARN ELEVATION = 85.84



LOCATION PLAN

SCALE: I" = 1000' ±

SOURCE: MA GIS DIGITAL RASTER GRAPHIC (DRG)

#### PROJECT GENERAL NOTES

- EXISTING BOUNDARY LINE, TOPOGRAPHIC, AND SITE UTILITY INFORMATION IS BASED UPON SURVEY PERFORMED BY DONOHOE SURVEY INC.
- 2. PRIOR TO WORK, CONTRACTOR SHALL HAVE THE PROPOSED SITE LAID OUT VERTICALLY AND HORIZONTALLY BY A PROFESSIONAL LAND SURVEYOR.
- 3. IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS, THE CONTRACTOR SHALL NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO EXCAVATION WORK AND CALL DIG-SAFE AT I-800-DIG-SAFE PRIOR TO COMMENCING WORK.
- 4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATIONS, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 6. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.
- 7. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
- 8. CONTRACTOR SHALL COORDINATE WITH THE STATE POLICE AND/OR THE LOCAL POLICE DEPARTMENT FOR TRAFFIC RELATED ISSUES PRIOR TO COMMENCING WORK. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC COORDINATION AND POLICE DETAILS AS REQUIRED BY THE CITY, TOWN OR STATE.
- 9. CONTRACTOR SHALL SAW-CUT PAVEMENT WHERE PAVEMENT TO BE REMOVED ABUTS PAVEMENT WHICH IS TO REMAIN AND WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT.
- IO. CONTRACTOR SHALL MAINTAIN ALL NEW AND EXISTING UTILITIES IN GOOD WORKING ORDER AND SHALL PROTECT THEM FROM DAMAGE AT ALL TIMES THROUGHOUT CONSTRUCTION UNTIL WORK IS COMPLETED AND ACCEPTED.

#### TRAFFIC MANAGEMENT GENERAL NOTES

- I. CONTRACTOR SHALL SECURE WORK AREAS ACCORDING TO CURRENT CONDITIONS TO INSURE PUBLIC SAFETY AND CONVENIENCE. THIS SHALL INCLUDE INSURING THAT ALL EXCAVATIONS ARE PROTECTED AT ALL TIMES AND WHEN WORKSHIFT IS COMPLETED.
- THE CONTRACTOR SHALL NOTIFY AND PROVIDE A CONSTRUCTION SCHEDULE TO THE TOWN OF BOXFORD'S FIRE AND POLICE DEPARTMENTS PRIOR TO THE START OF CONSTRUCTION.
- 3. TYPICAL DAYTIME WORK HOURS ARE FROM 7:30 AM TO 5:00 PM, UNLESS OTHERWISE PERMITTED BY THE TOWN OF BOXFORD.
- 4. CONTRACTOR SHALL COORDINATE WITH IFARM FOR WORKER ACCESS TO FARM DURING CONSTRUCTION.

#### CONSTRUCTION SIGNING:

- I. LOCATION OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL ENSURE THAT SIGNS ARE PLACED IN ACCORDANCE WITH THE M.U.T.C.D..
- 2. EXISTING SIGNING WHICH CONFLICTS WITH PROPOSED CONSTRUCTION TRAFFIC MANAGEM, ENT SIGNING SHALL BE REMOVED AND STACKED OR COVERED AND RESTORED AT THE END OF THE WORK.
- 3. ALL SIGNS SHALL BE COVERED OR REMOVED WHEN CONDITION IS NOT IN EFFECT.

#### BOXFORD FIRE DEPARTMENT NOTES

- CONTRACTOR TO MEET WITH BOXFORD FIRE DEPARTMENT TO CONFIRM ALL HYDRANT MATERIALS AND LAYOUT/CONSTRUCTION STANDARDS.
- 2. DURING CONSTRUCTION A MEMBER OF THE BOXFORD FIRE DEPARTMENT WILL BE PRESENT TO INSPECT MATERIALS AND INSTALLATION.

# ASB

design group, LLC

civil engineering traffic engineering architecture

landscape design & construction
363 boston street, route 1

topsfield, ma 01983

DONOHOE SURVEY, INC.
LAND SURVEYING & MAPPING

363 Boston Street, Route 1
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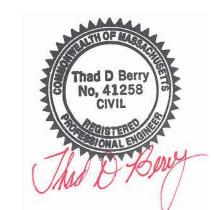
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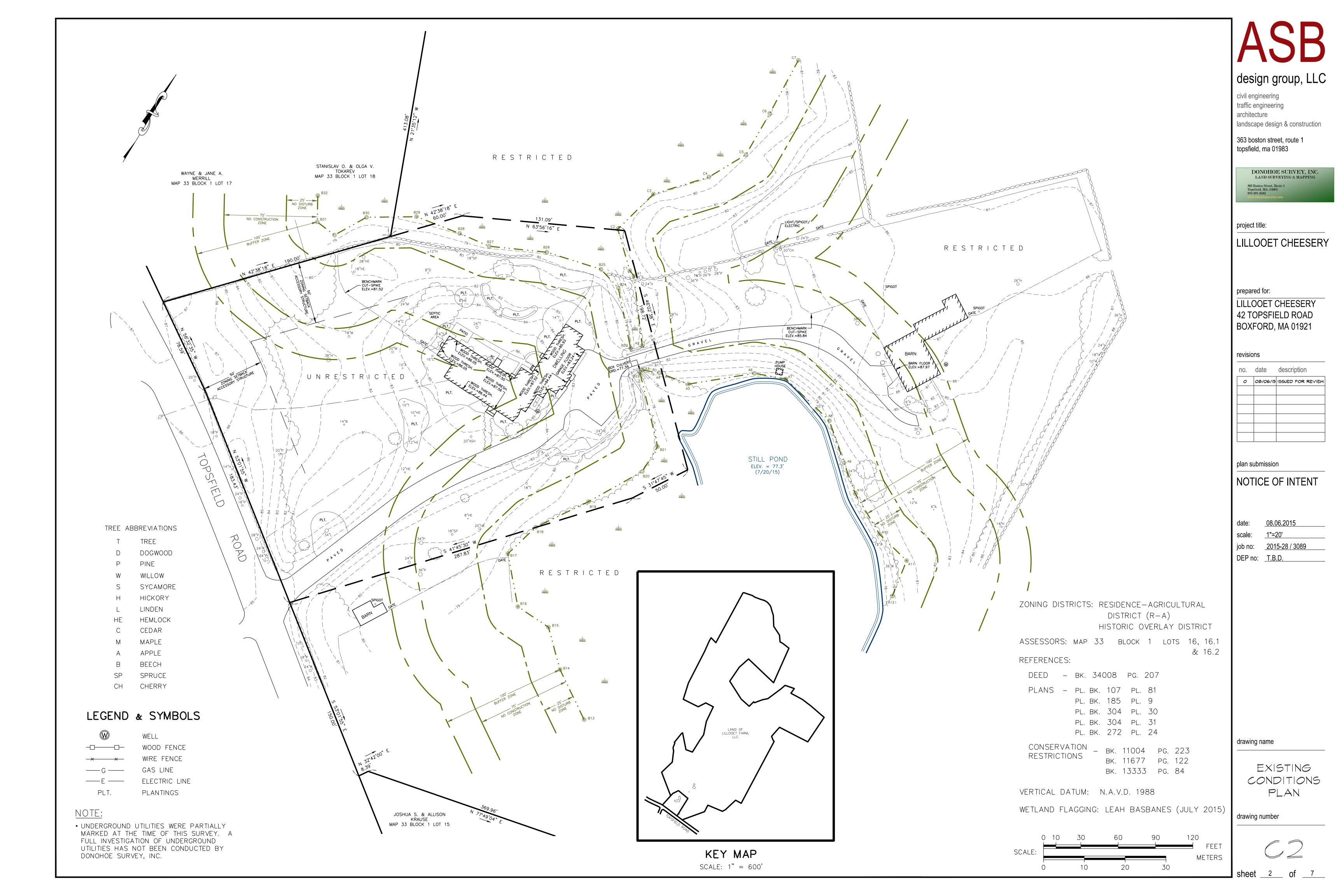
COVER SHEET

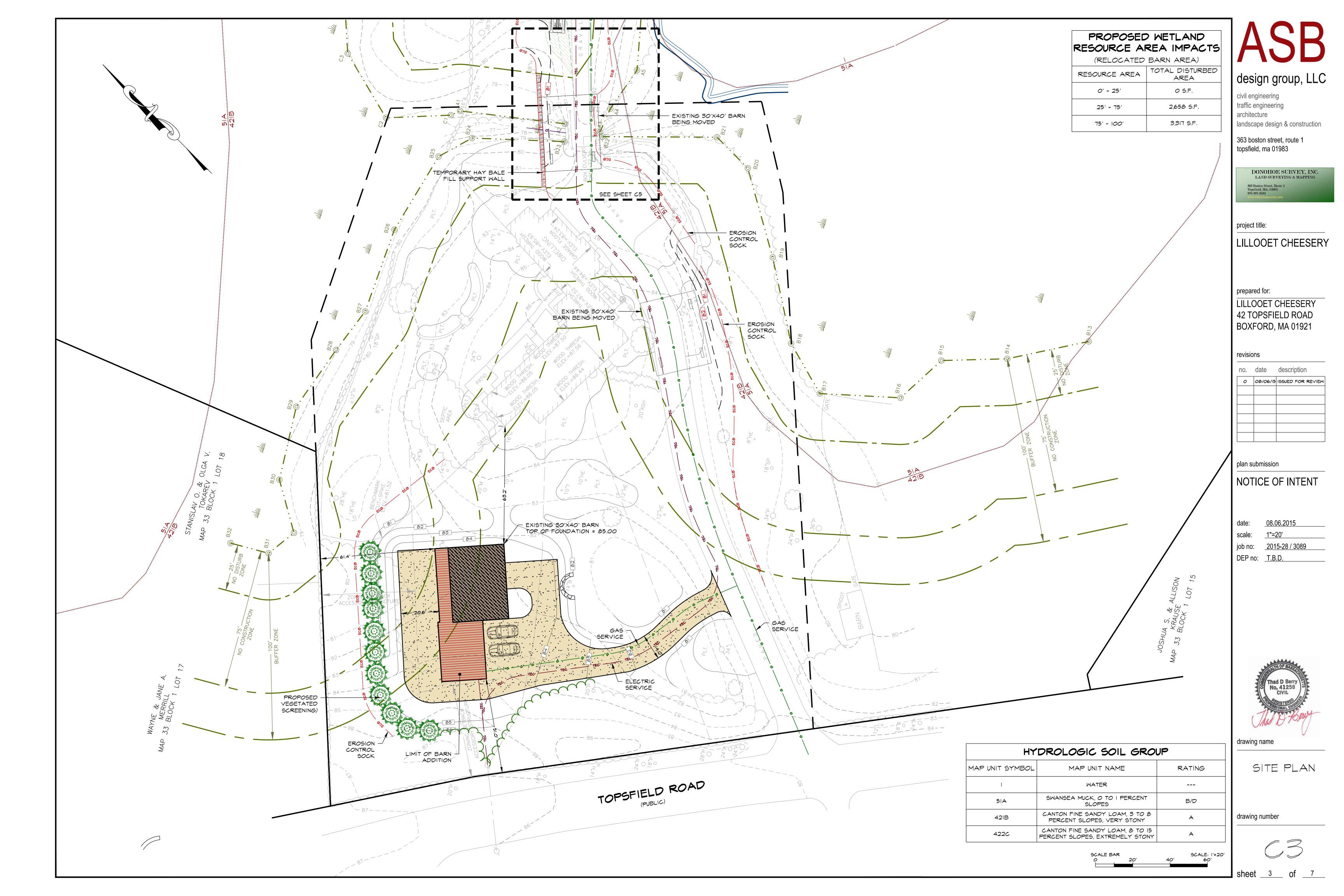
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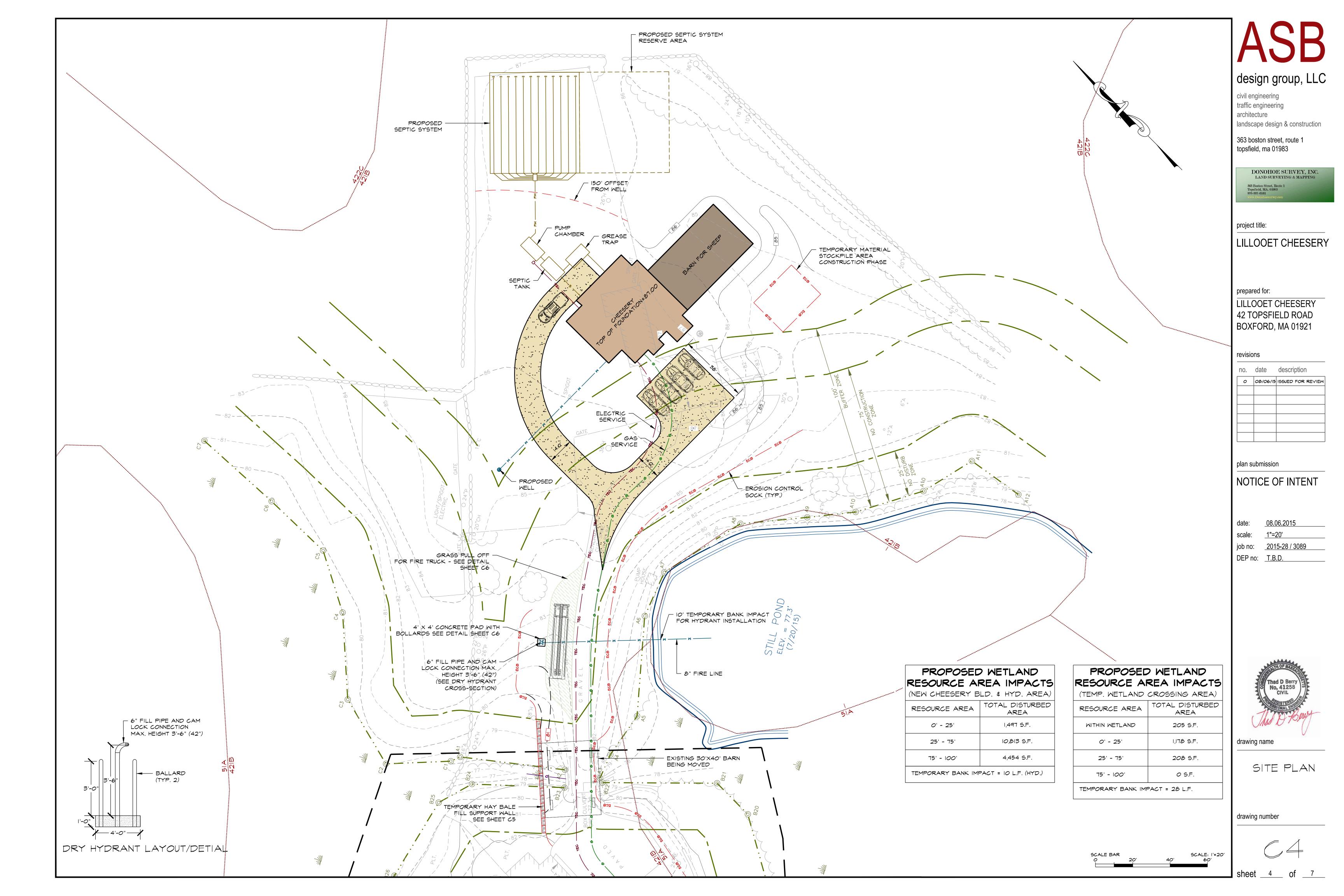


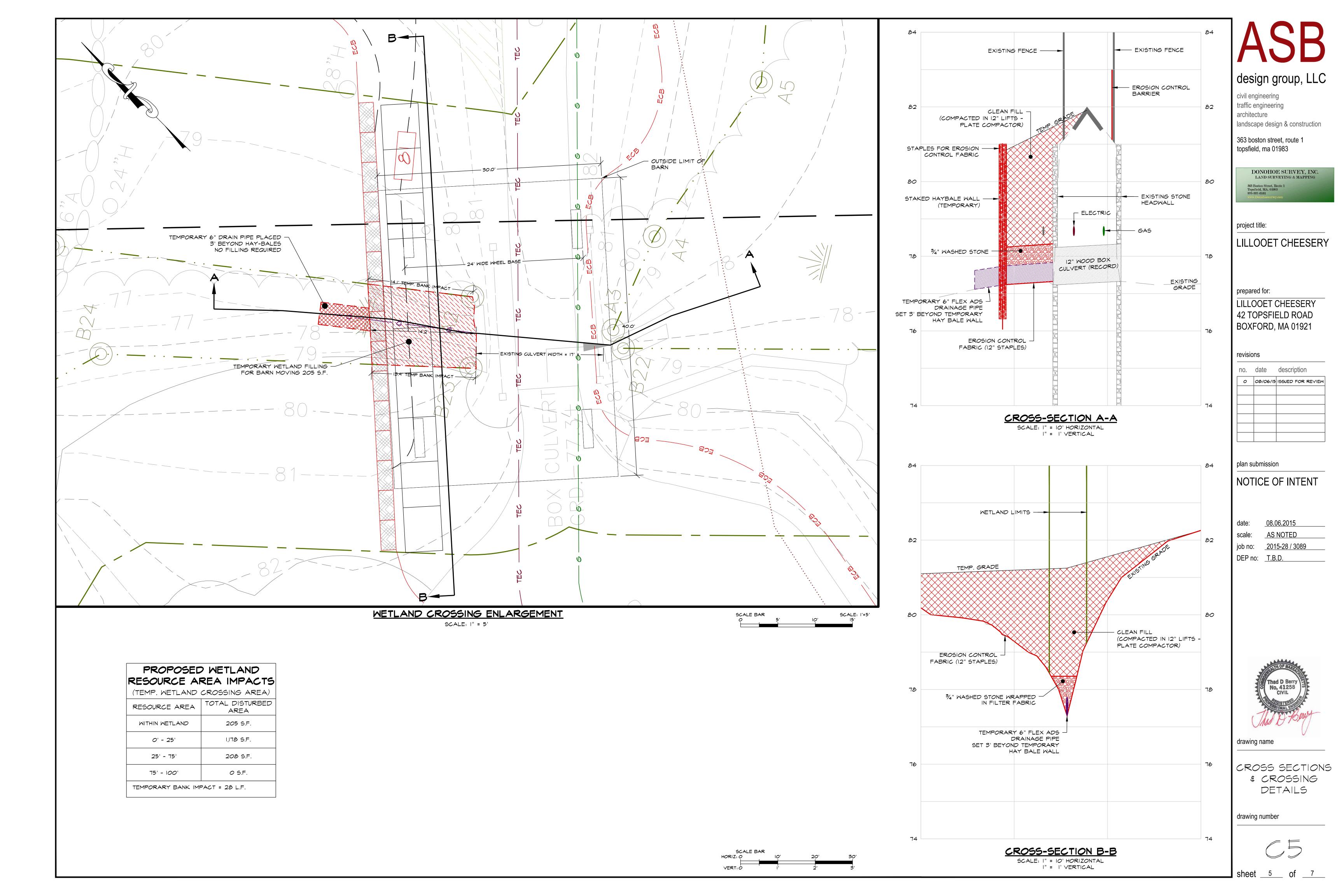
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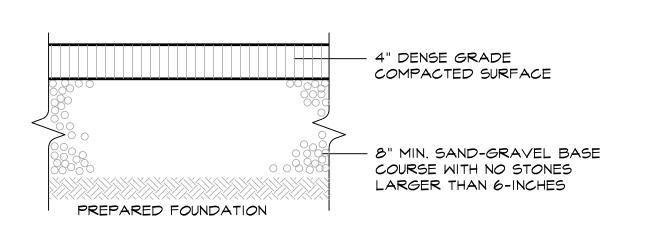
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## TYPICAL DRIVEWAY PAVEMENT SECTION

NOT TO SCALE

2.0'

I) CLEAN AREA OF ANY LOOSE DEBRIS, AREA SHOULD BE FREE

STRAIGHT LINE BY COLD PLANING 12" FROM THE EDGE OF THE

SAW-CUT DETAIL

NOT TO SCALE

ANDE GRADE

TAPE 12" BELOW GRADE

PROVIDE 36" COVER MIN.

2) A TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO

2) SAW-CUT AND REMOVE EXISTING PAVEMENT IN A NEAT,

OF DUST OR DIRT, AND THOROUGHLY DRIED.

PREVIOUS SAW-CUT LINE AND WITH A I" DEPTH.

THE SAW CUT AREA PRIOR TO PAVING.

- CLEAN BACKFILL

SANCUT OR COLD

PLANED EDGE

MATCH EXISTING PAVEMENT

APPLY LONGITUDINAL JOINT

ADHESIVE TO ALL SURFACES

EXISTING -

PAVEMENT

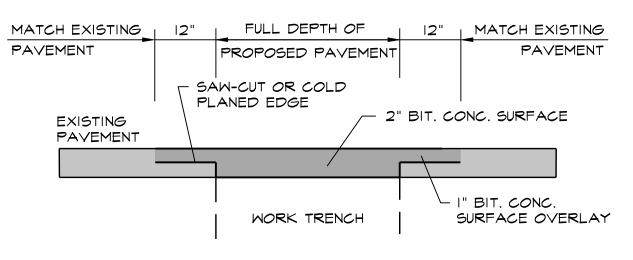
TO BE JOINED

SAND -

## - ESTABLISHED TURF PER LOAM & SEED NOTES - 4" LOAM 4" DENSE GRADE COMPACTED SURFACE - 8" MIN. SAND-GRAVEL BASE COURSE WITH NO STONES LARGER THAN 6-INCHES PREPARED FOUNDATION

### TYPICAL FIRE HYDRANT ACCESS PAVEMENT SECTION

NOT TO SCALE

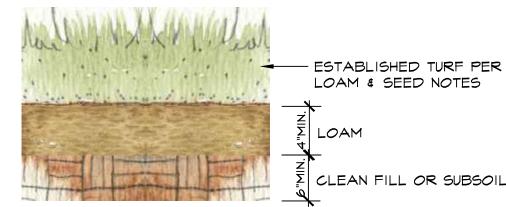


#### NOTES:

- I. CLEAN AREA OF ANY LOOSE DEBRIS. AREA SHOULD BE FREE OF DUST OR DIRT, AND THOROUGHLY DRIED.
- 2. A TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO THE SAW CUT AREA PRIOR TO PAVING.

PAVEMENT SAM-CUT

NOT TO SCALE



#### LOAM & SEED DETAIL

NOT TO SCALE

#### LOAM & SEEDING NOTES

#### LOAMING, SEEDING AND FERTILIZING

- I. IF REQUIRED THE CONTRACTOR SHALL FURNISH ALL TOPSOIL OR ADDITIONAL TOPSOIL NEEDED TO COMPLETE THE JOB. IF THE EXISTING TOPSOIL IS SUFFICIENT TO COMPLETE THE JOB, ANY EXCESS TOPSOIL WILL REMAIN ON SITE. AN AREA WILL BE PROVIDED ON SITE FOR FINAL STORAGE.
- 2. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED ON THE DESIGNATED AREAS AND IT SHALL BE A MINIMUM DEPTH OF SIX INCHES AFTER FIRMING. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVLY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED
- 3. AFTER LOAM HAS BEEN PLACED, LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP FOUR INCHES OF SOIL BY DISCING, HARROWING OR USING OTHER APPROVED METHODS.
- 4. ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE RESULTING FROM FERTILIZING, LIMING, SURFACE ROUGHINING OR OTHER CAUSES SHALL BE LEVELED PRIOR TO SEEDING. FLOODED, WASHED-OUT OR OTHERWISE DAMAGED AREAS SHALL BE RECONSTRUCTED AND ALL GRADES RE-ESTABLISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS AND/ OR OTHER APPLICABLE SPECIFICATIONS.
- PRIOR TO SEEDING THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS AND STONES LARGER THAN ONE AND ONE-HALF INCHES IN DIAMETER, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.
- 6. BROADCAST SEED AND MULCH. PLACE STRAW AND ANCHOR IT TO TOPSOIL. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH. (1/2"-1" EVERY 3-4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED.

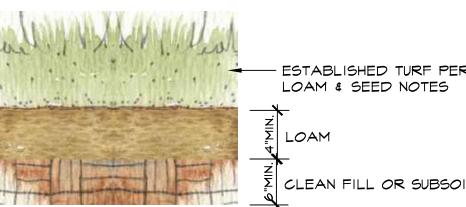
#### REPAIRS AND MAINTENANCE

INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS WITHIN THE PLANTING SEASON.

- I. ONCE THE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED.
- 2. IF THE STAND PROVIDES LESS THAN 40% GROUND COVERAGE, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS.
- 3. IF THE STAND PROVIDES BETWEEN 40% AND 94% GROUND COVER AGE, OVERSEEDING AND FERTILIZING USING HALF OF THE RATES ORIGINALLY APPLIED MAY BE NECESSARY.

#### SURFACE PREPARATION

- I. STRIP AND STOCKPILE ALL EXISTING LOAM FROM PROPOSED WORK AREAS, PROTECT LOAM FROM EROSION, ALL LOAM WILL REMAIN ON SITE UNLESS THE OWNER APPROVES OF OFF SITE REMOVAL.
- 2. SET FIELD GRADES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PROVIDE PROPER SURVEY CONTROL AND MAINTAIN THROUGHOUT CONSTRUCTION. PROVIDE ENGINEER WITH COPIES OF ALL SURVEY NOTES AND LOCATIONS OF BOTH VERTICAL AND HORIZONTAL CONTROL.
- 3. BRING BASE MATERIAL TO FINISH GRADE, PROVIDE ENGINEER WITH AS-BUILT DRAWINGS SHOWING FINISH ELEVATIONS AND CONTOURS PRIOR TO PLACEMENT OF LOAM.
- 4. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR BOTH LIME AND FERTILIZER. SOIL TESTS SHALL BE CONDUCTED BY A STATE LABORATORY OR RECOGNIZED COMMERCIAL LABORATORY. PROVIDE ENGINEER WITH COPY OF TEST RESULTS AND RECOMENDATIONS FOR LIMING AND FERTILIZING.
- 5. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN APPROVED BY THE OWNER OR ENGINEER, AND IMMEDIATLY PRIOR TO DUMPING AND SPREDDING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY ROUGHENING TO THE DEPTH OF AT LEAST TWO INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL AND TO INCORPORATE THE LIME.
- 6. ACCEPTANCE SHALL BE GIVEN BY THE OWNER OR ENGINEER UPON SATISFACTORY COMPLETION OF EACH SECTION OR AREA AS INDICATED ON THE DRAWINGS OR AS OTHERWISE SPECIFIED BEFORE PLACEMENT OF



363 boston street, route 1 topsfield, ma 01983

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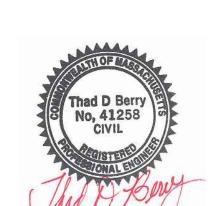
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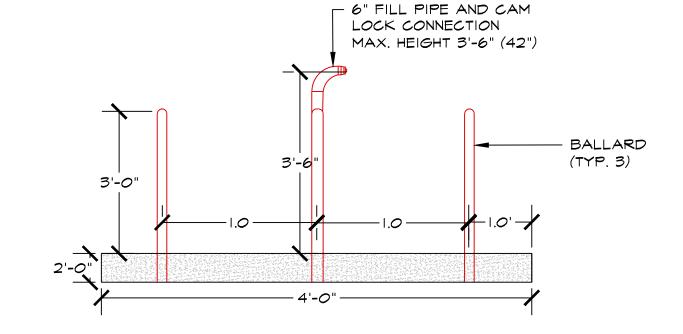
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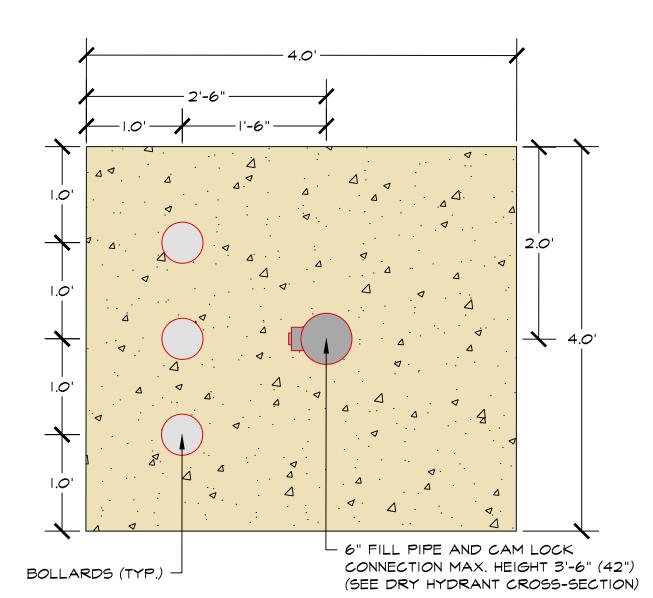


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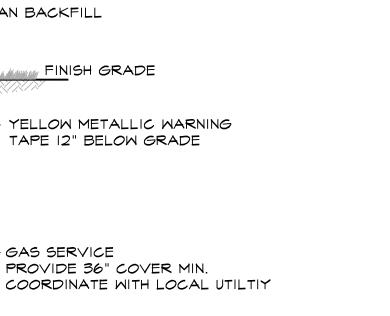
SITE & UTILITY DETAILS

drawing number





6" FILL PIPE LAYOUT



FULL DEPTH OF PROPOSED PAVEMENT

- NEW PAVED

BIT. CONC. SURFACE

PER ROAD TEMPLATE

PREBARED BASE PER

SAND -

PAVING SECTION

SURFACE

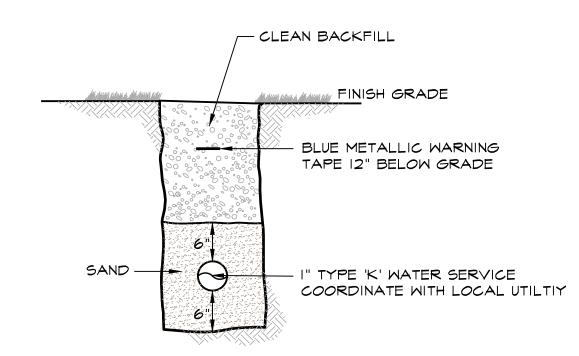
COMPACTED

SUBGRADE



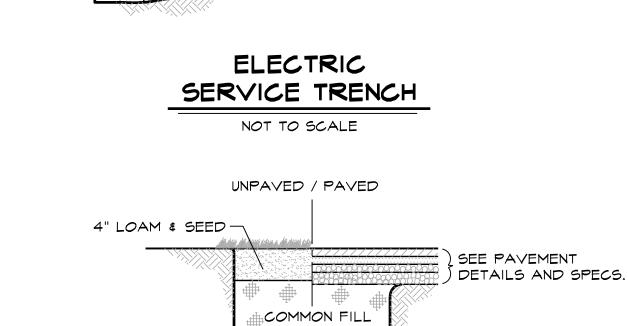
NOT TO SCALE

- GAS SERVICE



WELL/WATER SERVICE TRENCH

NOT TO SCALE



- CLEAN BACKFILL

FINISH GRADE

RED METALLIC WARNING

TAPE 12" BELOW GRADE

- ELECTRIC CONDUIT

2.0' MIN. COVER

NOTE: COORDINATE DEPTH

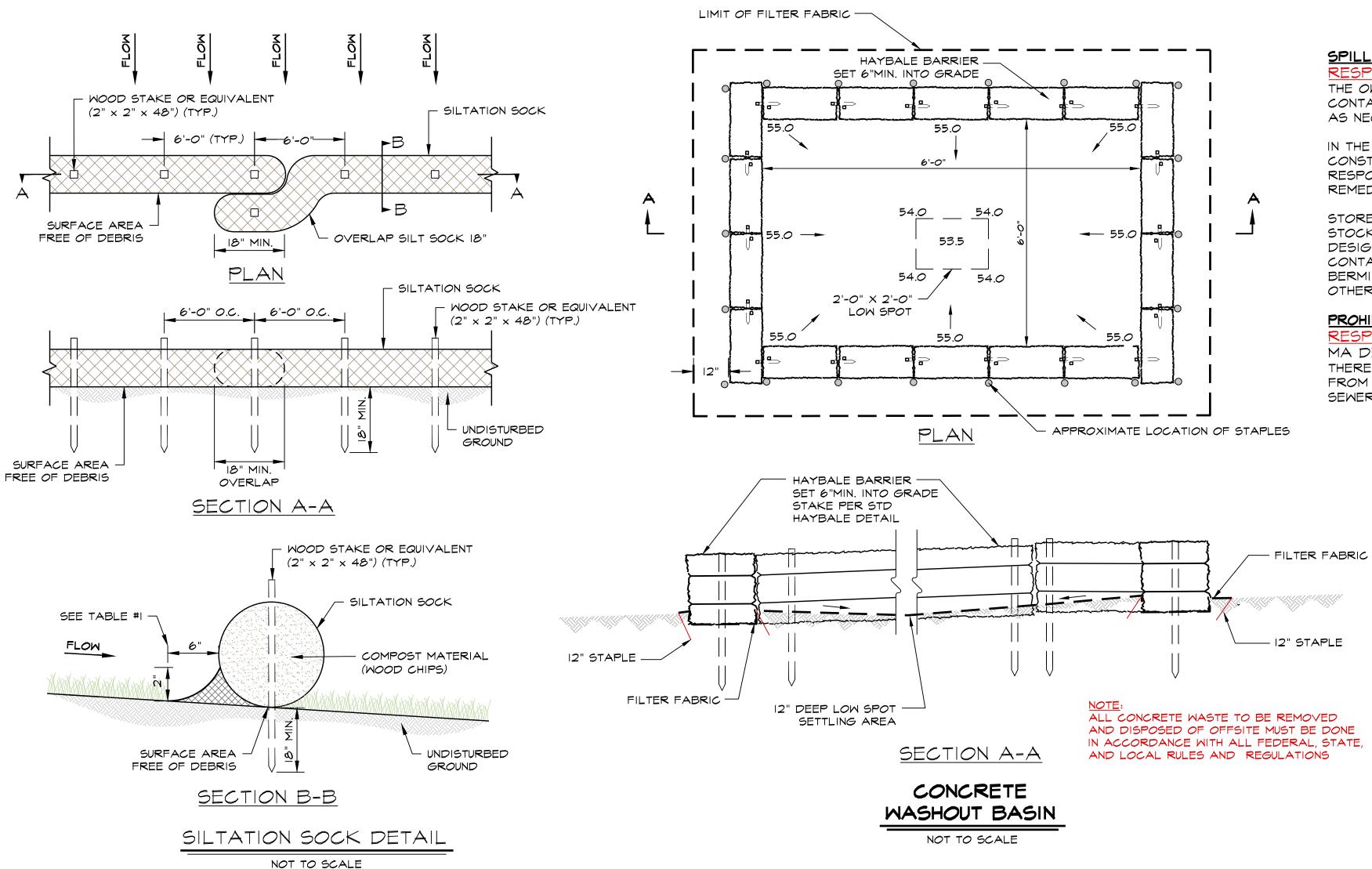
OF CONDUIT WITH UTILITY

COMPANY REQUIREMENTS

COMPACTED LIMIT OF TRENCH -PER SPEC. EXCAVATION-PROVIDE SHEETING & SHORING AS REQUIRED COMPACTED GRAVEL DRAIN PIPE TO MIDPOINT OF PIPE 3' COVER MIN. WIDTH= D + 2'-Q" OR 3'-0" MIN.

> STORM DRAIN TRENCH NOT TO SCALE

NOT TO SCALE



STREAM RESTORATION

TABLE #I				
SLOPE	SOCK DIAMETER (MIN.)	STAKING	2" COMPOST BARRIER (WOOD CHIPS)	
< 50:I	9"	6' O.C.		
50:1 TO 10:1	9"	6' O.C.		4' O.C. FOR STREAM RES
10:1 TO 5:1	12"	6' O.C.		
3:1 TO 2:1	12"	4' O.C.		
> 2:1	18"	4' O.C.	RECOMMENDED	

INSTALLATION NOTES:

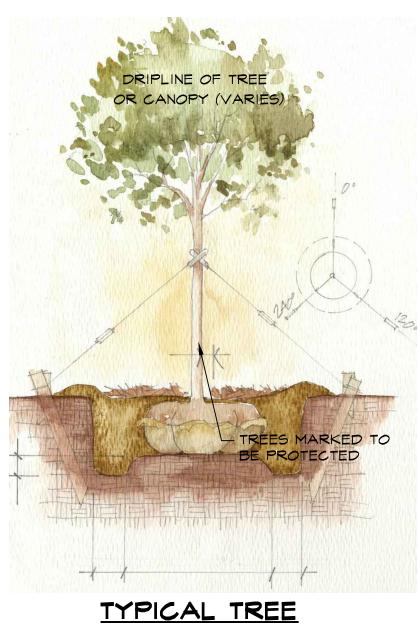
I. INSTALL SILT SOCK ON A SURFACE CLEAR OF DEBRIS.

- 2. OVERLAP ENDS BY A MINIMUM OF 18-INCHES.
- 3. END OF SILT SOCK TO BE DIRECTED UP SLOPE.
- 4. PLACE STAKES THROUGH SILT SOCK OR ON DOWNSTREAM SIDE.
- 5. ON SLOPES GREATER THAN 2:1 (>2:1) SEED COMPOST SOCK IS RECOMMENDED.

#### NOTES:

#### I. EROSION CONTROL BARRIER TO BE STAKED IN THE FIELD BY SURVEYOR PRIOR TO CONSTRUCTION.

- 2. MATERIAL STOCKPILE AREA WILL BE SURROUNDED BY AN EROSION CONTROL BARRIER. (HAY BALES, SILTATION FENCE, AND/OR SILTATION SOCK). EXISTING BARK MULCH ROADWAY WILL ACT AS MATERIAL STOCKPILE AREA DURING CONSTRUCTION. MATERIAL STOCKPILE AREA SHALL BE PLACED WITHIN PREVIOUSLY DISTURBED AREA. SEE CONSTRUCTION PHASING 1-4.
- 3. ALL LOAM IS TO REMAIN ON SITE UNTIL ALL AREAS ARE LOAMED AND SEEDED. EXCESS LOAM SHALL BE REMOVED FROM THE SITE AT THE COMPLETION FOR ROADWAY. COORDINATE WITH OWNER/APPLICANT FOR ONSITE PLACEMENT OF EXCESS LOAM.
- 4. CONSTRUCTION ENTRANCE WILL BE INSTALLED FOR VEHICLE ACCESS TO CONSTRUCTION STAGING AREA.
- 5. CONCRETE WASHOUT AREA WILL BE A MINIMUM OF 6'X6' AND BE SURROUNDED BY A SINGLE ROW OF STACKED HAY BALES. ALL HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (MADEP)RULES AND REGULATIONS.



PROTECTION FENCE

PROVIDE SIMPLE WOOD FENCING OR ORANGE CONSTRUCTION FENCE AROUND ALL TREES MARKED TO BE PROTECTED (STAKED IN FIELD BY SURVEYOR PRIOR TO TREE/SITE CLEARING LIMITS OF FENCE MUST EXTEND

DO NOT STORE ANY MACHINERY OR MATERIALS PROTECTION FENCING

# BEYOND DRIPLINE

WITHIN THE AREA OF THE TREE

#### SPILL CONTROL AND RESPONSE:

#### RESPONSIBILITY: OWNER

THE OWNER WILL MAINTAIN EQUIPMENT AND STORAGE CONTAINERS AND/OR PERFORM REPAIRS OR MODIFICATIONS AS NECESSARY TO PREVENT SPILLS.

IN THE EVENT OF A SPILL, IMMEDIATELY NOTIFY THE RESIDENT CONSTRUCTION INSPECTOR WHO WILL CONTACT EMERGENCY RESPONSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY SPILL.

STORE ALL FUELS, LUBRICANTS, CHEMICAL STORAGE, MATERIAL STOCKPILES, AND OTHER POTENTIAL POLLUTANTS IN A DESIGNATED AREA ON-SITE. PROVIDE SECONDARY CONTAINMENT AND CONTROLS AS NECESSARY INCLUDING BERMING LINED WITH AN IMPERVIOUS MATERIAL, COVERING, OR OTHER APPROPRIATE MEASURES.

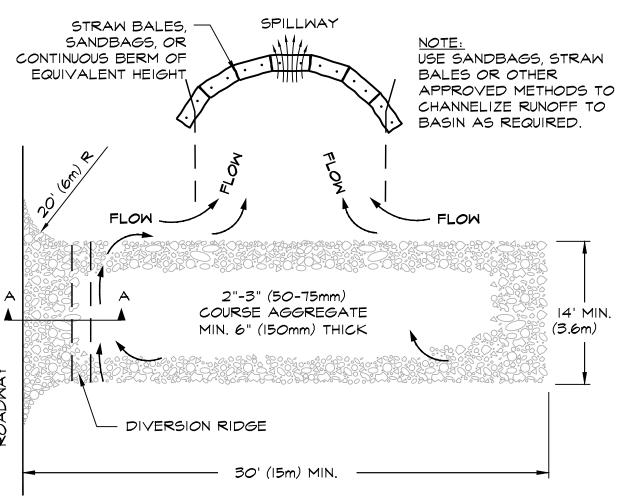
#### PROHIBITION OF ILLICIT DISCHARGES

#### RESPONSIBILITY:OWNER

MA DEP STORMWATER REPORT STANDARD 10: THERE SHALL BE NO ILLEGAL DISCHARGES OF ANY MATERIAL FROM THIS SITE TO THE PROPOSED DRAINAGE AND/OR SEWERAGE SYSTEMS.

### DIVERSION RIDGE REQUIRED 2 % OR GREATER WHERE GRADE EXCEEDS 2% ROADWAY FILTER FABRIC

#### SECTION A - A



#### PLAN

- I. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 3. ADJACENT STREETS SHALL BE SWEPT.

TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

#### EROSION CONTROL NOTES

#### EROSION CONTROL PRINCIPLES

- A. THE FOLLOWING EROSION CONTROL PRINCIPLES SHALL APPLY TO THE LAND GRADING AND CONSTRUCTION PHASES:
  - STRIPPING OF VEGETATION, GRADING, OR OTHER SOIL DISTURBANCE SHALL BE DONE IN A MANNER WHICH WILL MINIMIZE
  - 2) WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- 3) EXTENT OF AREA WHICH IS EXPOSED AND FREE OF VEGETATION AND DURATION OF ITS EXPOSURE SHALL BE KEPT WITHIN PRACTICAL LIMITS.
- 4) TEMPORARY SEEDING, MULCHING, OR OTHER SUITABLE STABILIZATION MEASURES SHALL BE USED TO PROTECT EXPOSED CRITICAL AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE.
- 5) DRAINAGE PROVISIONS SHALL ACCOMMODATE INCREASED RUNOFF RESULTING FROM MODIFICATIONS OF SOIL AND SURFACE CONDITIONS DURING AND AFTER DEVELOPMENT OR DISTURBANCE. SUCH PROVISIONS SHALL BE IN ADDITION TO EXISTING REQUIREMENTS.
- 6) SEDIMENT SHALL BE RETAINED ON-SITE.
- 7) EROSION CONTROL DEVICES SHALL BE INSTALLED AS EARLY AS POSSIBLE IN THE CONSTRUCTION SEQUENCE PRIOR TO START OF CLEARING AND GRUBBING OPERATIONS AND EXCAVATION WORK
- B. CUT AND FILL SLOPES AND STOCKPILED MATERIALS SHALL BE PROTECTED TO PREVENT EROSION. SLOPES SHALL BE PROTECTED WITH PERMANENT EROSION PROTECTION WHEN EROSION EXPOSURE PERIOD IS GREATER THAN OR EQUAL TO SIX MONTHS, AND TEMPORARY EROSION PROTECTION WHEN EROSION EXPOSURE PERIOD IS EXPECTED TO BE LESS THAN SIX MONTHS (SEE NOTE 18)
- I) PERMANENT EROSION PROTECTION SHALL BE ACCOMPLISHED BY SEEDING WITH GRASS AND COVERING WITH AN EROSION PROTECTION MATERIAL, AS APPROPRIATE FOR PREVAILING CONDITIONS.
- 2) EXCEPT WHERE SPECIFIED SLOPE IS INDICATED ON DRAWINGS, FILL SLOPES SHALL BE LIMITED TO A GRADE OF 3:1 (HORIZONTAL: VERTICAL) AND CUT SLOPES SHALL BE LIMITED TO A GRADE OF 3:1.

#### HAY BALES DIKE

BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES, EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4-INCHES, BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

#### MAINTENANCE AND REMOVAL OF CONTROL DEVICES

- A. WETLAND AREAS, WATER COURSES, AND DRAINAGE SWALES ADJACENT TO CONSTRUCTION ACTIVITIES SHALL BE MONITORED TWICE EACH MONTH FOR EVIDENCE OF SILT INTRUSION AND OTHER ADVERSE ENVIRONMENTAL IMPACTS, WHICH SHALL BE CORRECTED IMMEDIATELY UPON DISCOVERY.
- B. CULVERTS AND DRAINAGE DITCHES SHALL BE KEPT CLEAN AND CLEAR OF OBSTRUCTIONS DURING CONSTRUCTION PERIOD.
- C. EROSION CONTROL DEVICES:
- I) SEDIMENT BEHIND THE EROSION CONTROL DEVICE SHALL BE CHECKED TWICE EACH MONTH AND AFTER EACH HEAVY RAIN. SILT SHALL BE REMOVED IF GREATER THAN 6-INCHES DEEP.
- 2) CONDITION OF EROSION CONTROL DEVICE SHALL BE CHECKED TWICE EACH MONTH OR MORE FREQUENTLY AS REQUIRED. DAMAGED AND/OR DETERIORATED ITEMS SHALL BE REPLACED. EROSION CONTROL DEVICES SHALL BE MAINTAINED IN-PLACE AND IN EFFECTIVE CONDITION.
- 3) HAY BALES SHALL BE INSPECTED FREQUENTLY AND MAINTAINED OR REPLACED AS REQUIRED TO MAINTAIN BOTH EFFECTIVENESS AND INSTALLED CONDITION. UNDERSIDE OF BALES SHALL BE KEPT IN CLOSE CONTACT WITH THE EARTH BELOW AT ALL TIMES, AS REQUIRED TO PREVENT WATER FROM WASHING BENEATH BALES.
- 4) SEDIMENT SHALL BE REMOVED FROM THE RETENTION PONDS AT THE COMPLETION OF THE PROJECT AND PERIODICALLY DURING CONSTRUCTION. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 6 INCHES, OR AS DIRECTED.
- 5) SEDIMENT DEPOSITS SHALL BE DISPOSED OF OFF-SITE, IN A LOCATION AND MANNER WHICH WILL NOT CAUSE SEDIMENT NUISANCE ELSEWHERE.
- D. REMOVAL OF EROSION CONTROL DEVICES:
  - EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED, AT WHICH TIME THEY SHALL BE REMOVED. AFTER REMOVAL, AREAS DISTURBED BY THESE DEVICES SHALL BE RE-GRADED AND
  - 2) EROSION CONTROL NETTING SHALL BE KEPT SECURELY ANCHORED UNTIL START OF PERMANENT TURF CONSTRUCTION.
  - 3) EROSION PROTECTION MATERIAL SHALL BE KEPT SECURELY ANCHORED UNTIL ACCEPTANCE OF COMPLETED SLOPE OR ENTIRE PROJECT, WHICHEVER IS LATER.

## design group, LLC

civil engineering traffic engineering architecture

landscape design & construction 363 boston street, route 1

topsfield, ma 01983

DONOHOE SURVEY, INC. LAND SURVEYING & MAPPING Topsfield, MA. 01983 978-887-6161

project title

LILLOOET CHEESERY

prepared for:

LILLOOET CHEESERY **42 TOPSFIELD ROAD** BOXFORD, MA 01921

revisions

no. date description 0 08/06/15 ISSUED FOR REVIEW

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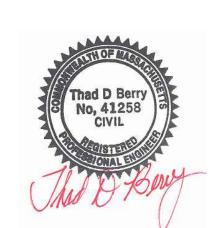
plan submission

# NOTICE OF INTENT

08.06.2015 NOT TO SCALE

DEP no: T.B.D

<u>2015-28 / 3089</u>



drawing name

EROSION CONTROL DETAILS

drawing number