40B COMPREHENSIVE PERMIT BYFIELD ESTATES

BYFIELD, MA **DATE: MARCH 22, 2017**

REV: NOVEMBER 15, 2017

OWNER/DEVELOPER

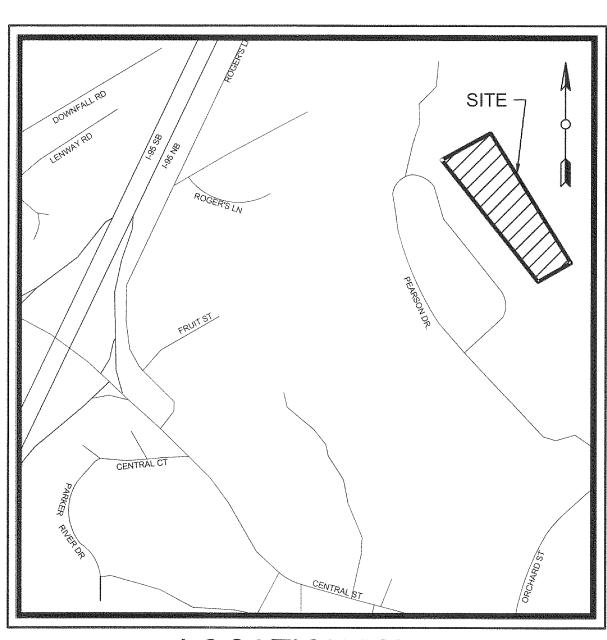
PREPARED FOR:

BYFIELD ESTATES, LLC

2 DEARBORN WAY MIDDLETON, MA 01949

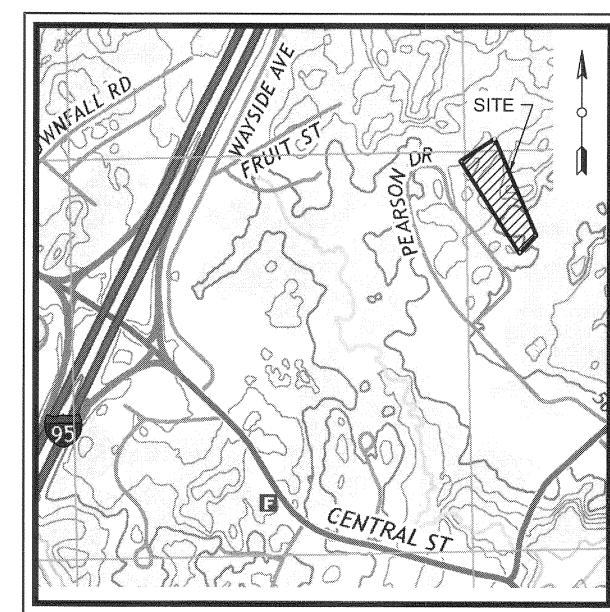
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4	V0801	ROADWAY LAYOUT AND PROPERTY LINE PLAN
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6	CS1001	LAYOUT AND MATERIALS PLAN
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16	CS8001	EROSION AND SEDIMENTATION CONTROL PLAN
17	CS8501	EROSION AND SEDIMENTATION CONTROL NOTES



LOCATION MAP Scale: N.T.S

PREPARED BY:



USGS MAP Scale: N.T.S.



THE LAW REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE AT LEAST 72 HOURS BEFORE BEGINNING CONSTRUCTION. 1-888-DIG-SAFE (1-888-344-7233)



ENGINEERING & DESIGN, LLC

RANGER

13 Branch Street, Suite 101 Methuen, MA 01844 T 978.435.1324

RANGER ENGINEERING 8

T 978.435.1324

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WATER QUALITY UNIT

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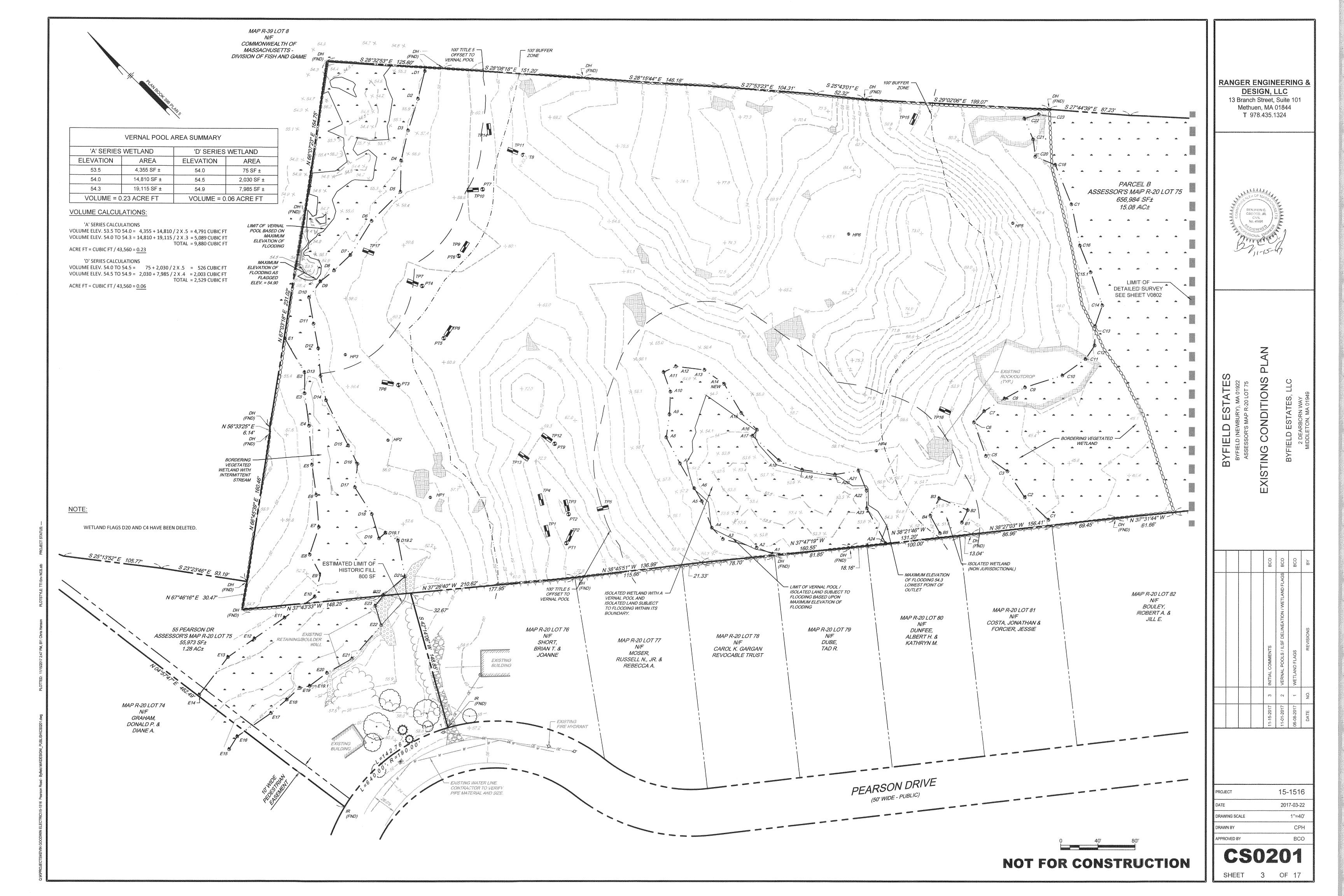
RANGER ENGINEERING & DESIGN, LLC 13 Branch Street, Suite 101 Methuen, MA 01844 **T** 978.435.1324 ABBA

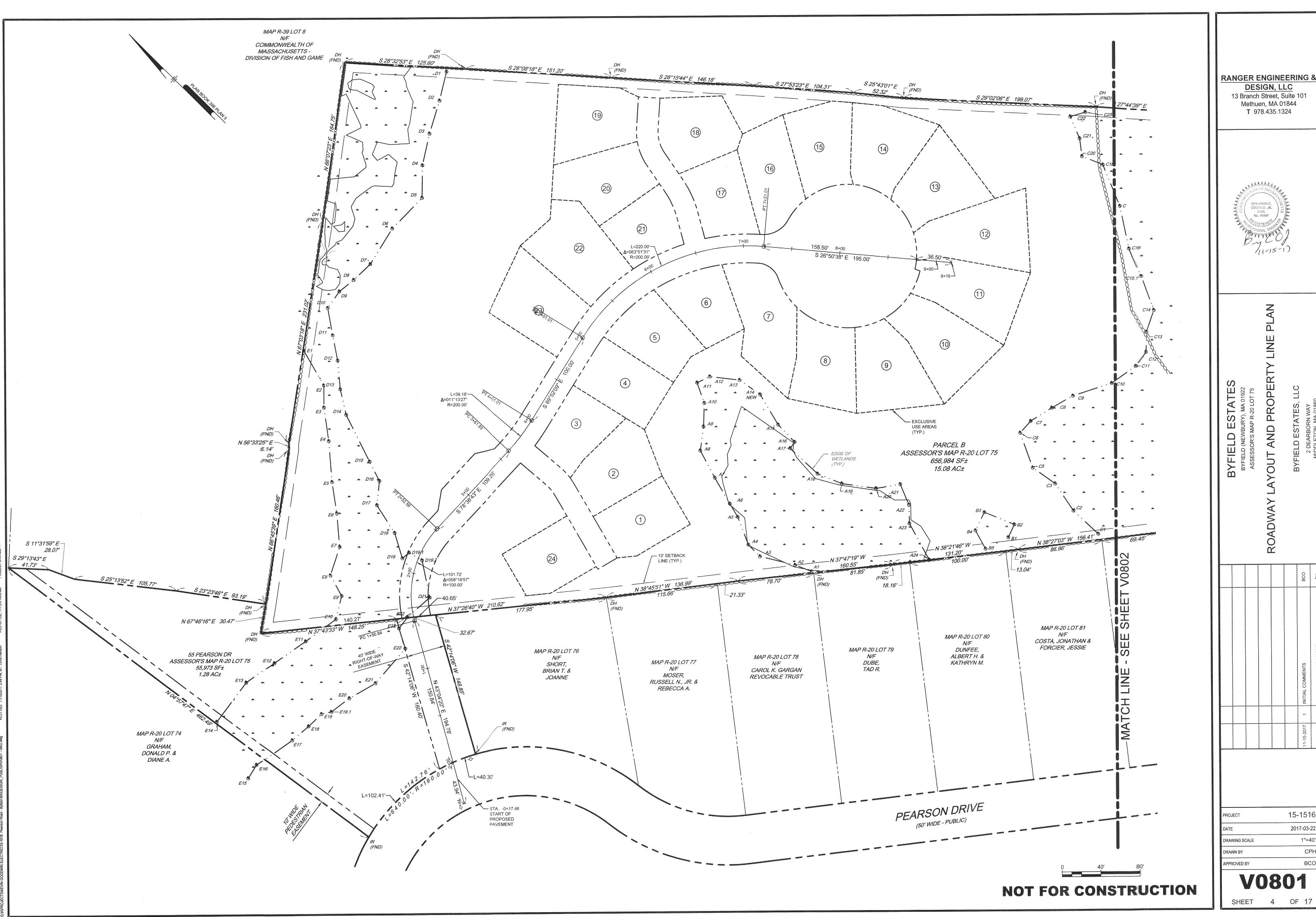
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RANGER ENGINEERING &

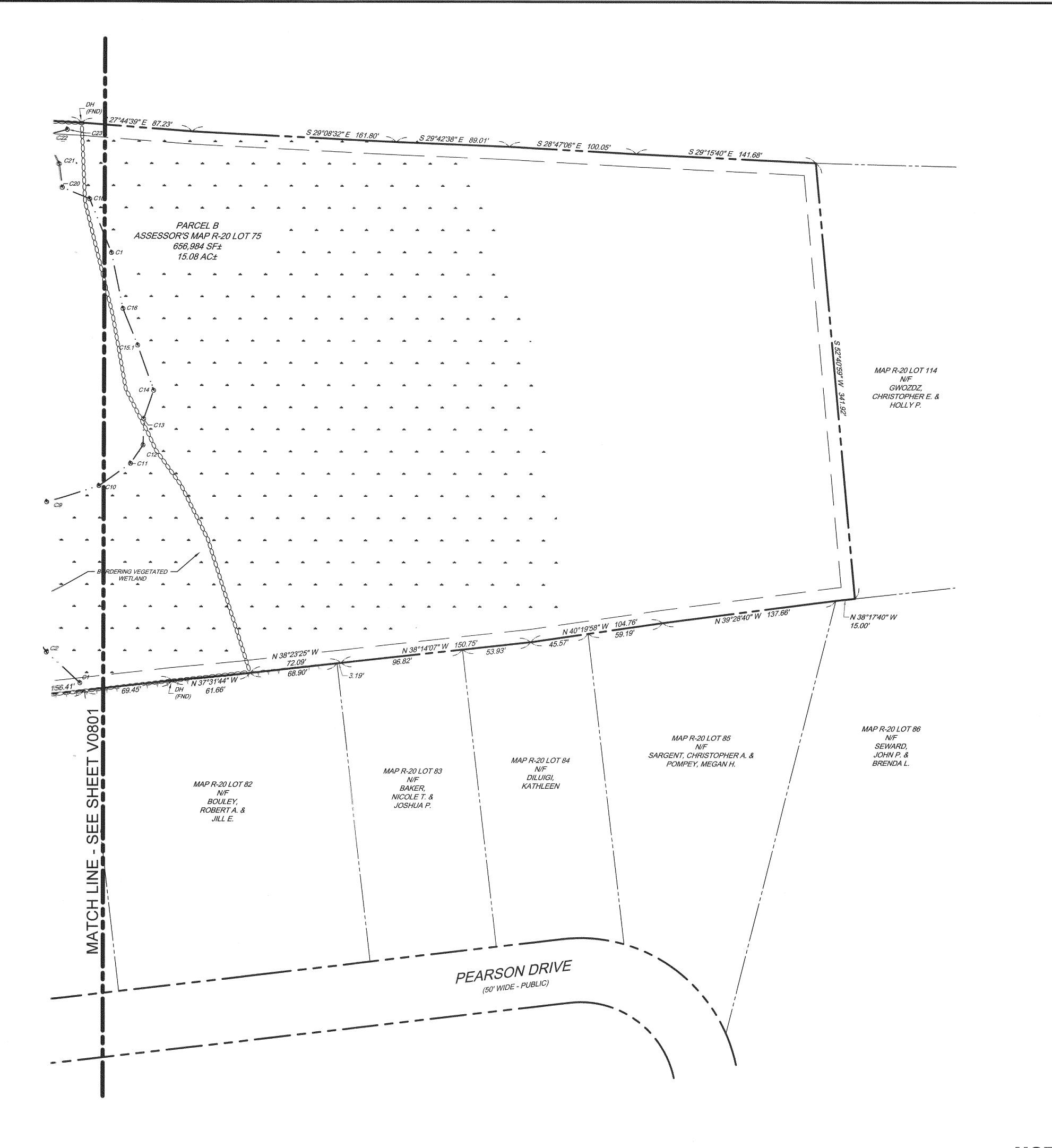
13 Branch Street, Suite 101 Methuen, MA 01844



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Methuen, MA 01844
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BYFIELD ESTATES

BYFIELD (NEWBURY), MA 01922

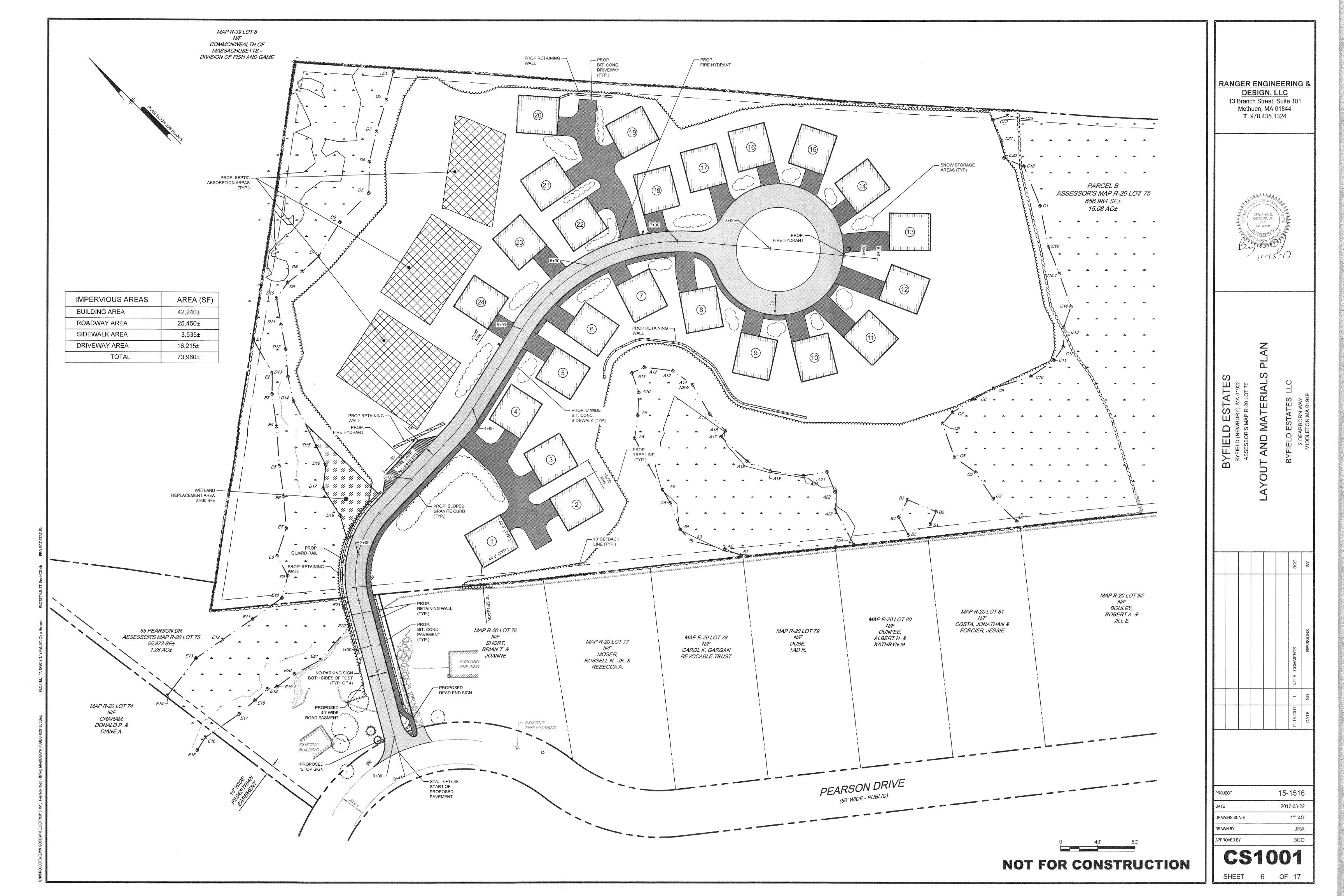
ASSESSOR'S MAP R-20 LOT 75

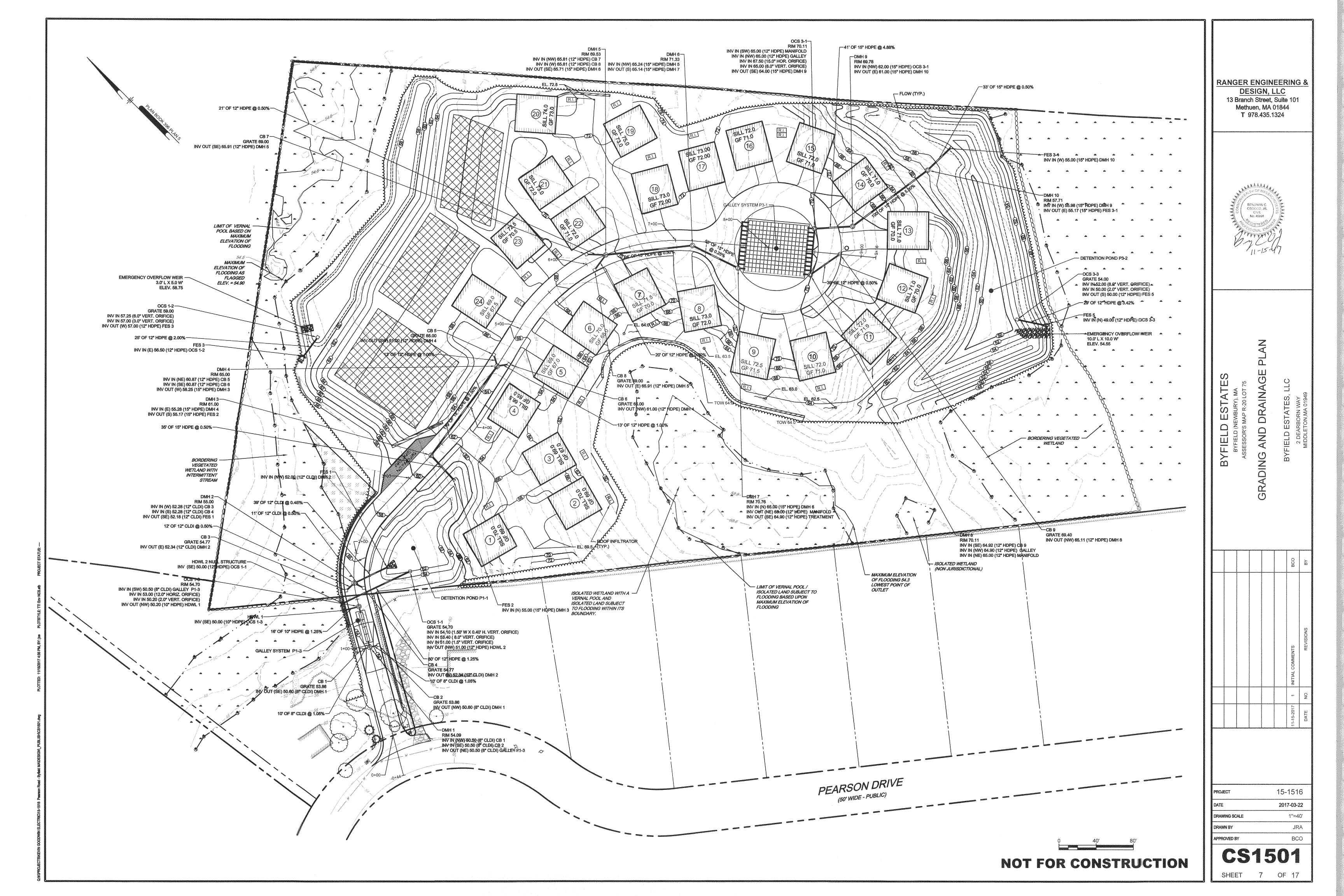
ROADWAY LAYOUT AND PROPERTY LINE PL

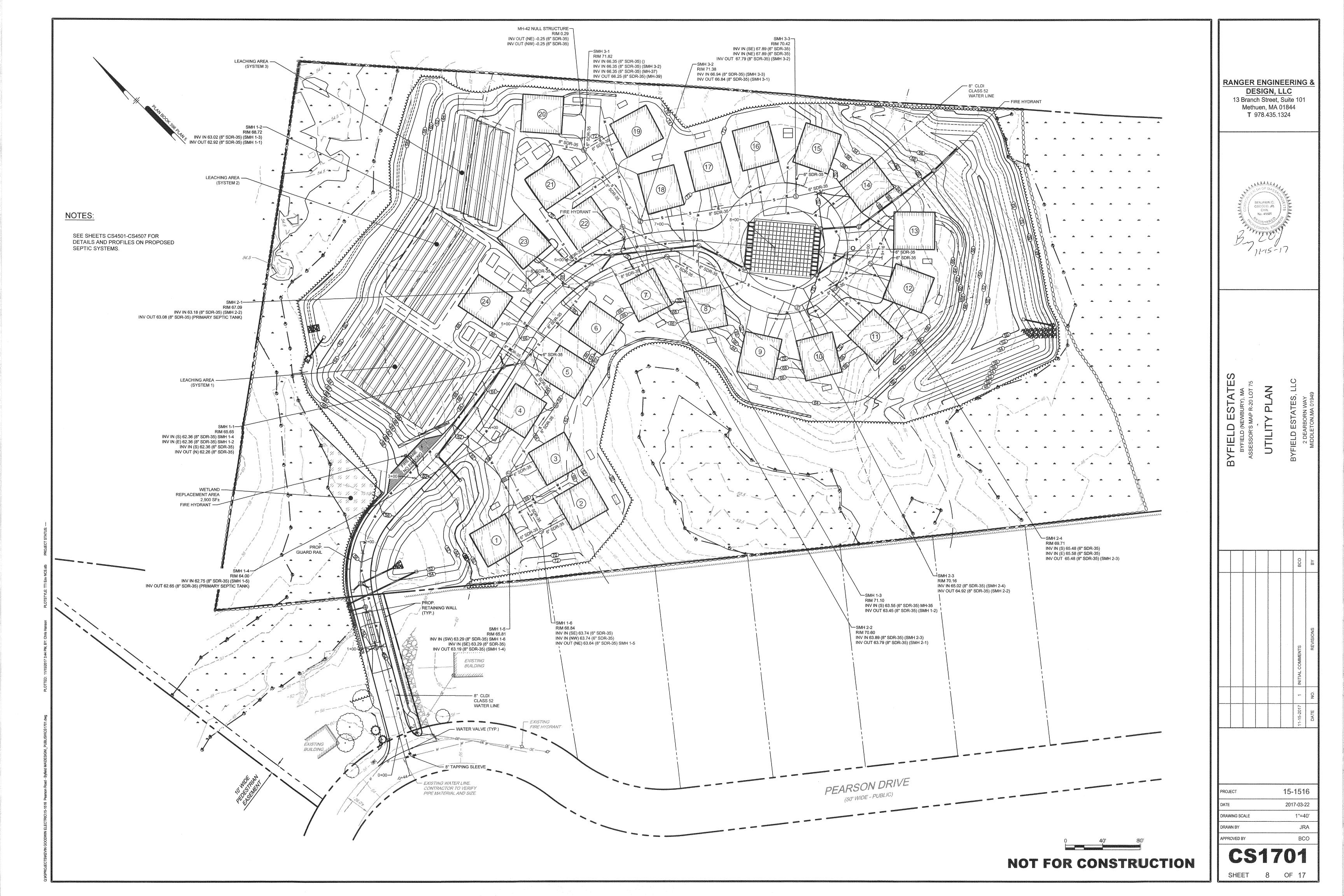
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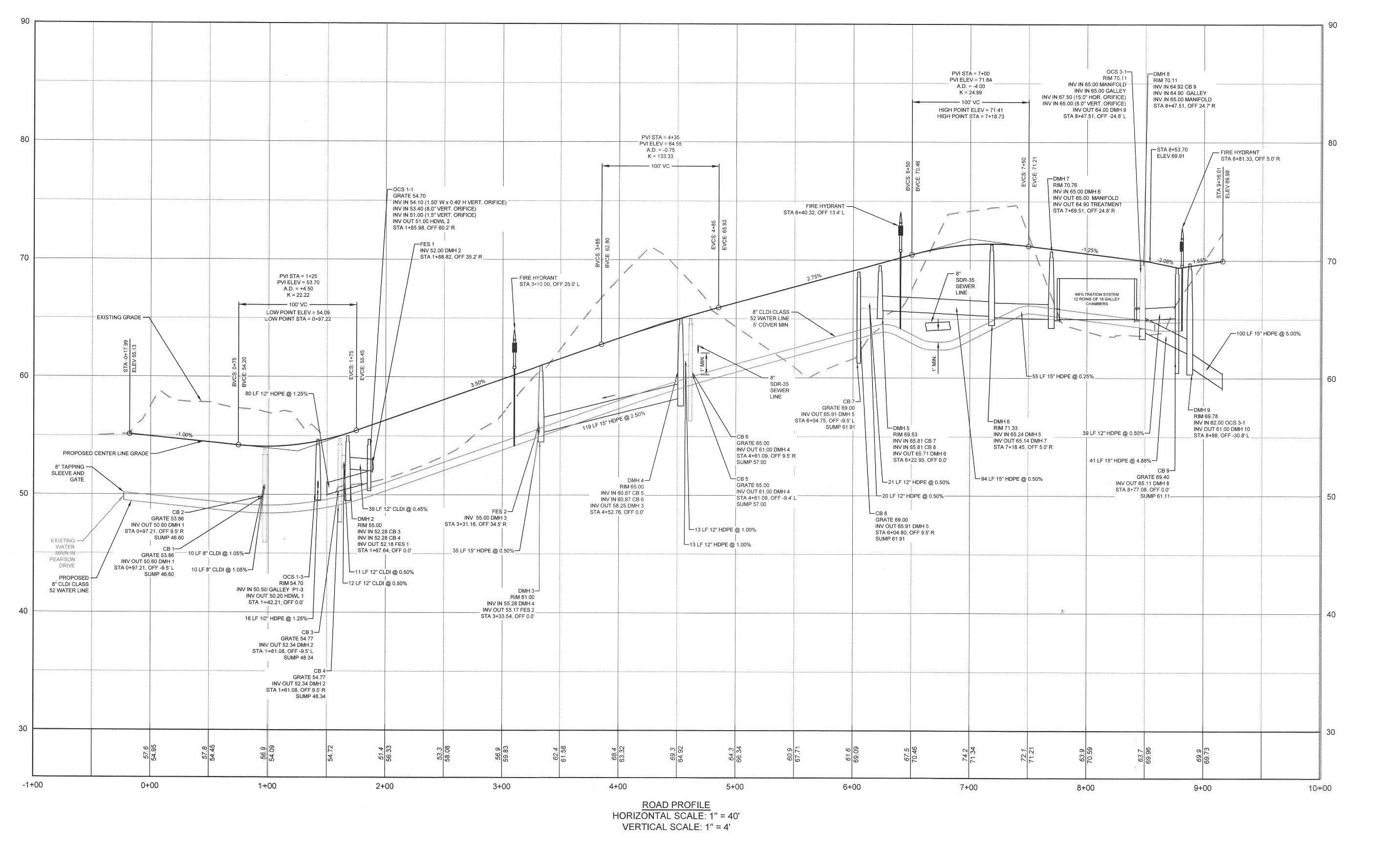
PROJECT	15-1516
DATE	2017-03-22
DRAWING SCALE	1''=40'
DRAWN BY	CPH
APPROVED BY	BCO.

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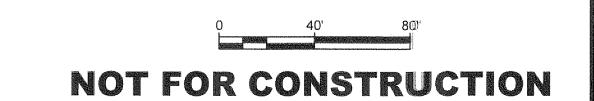






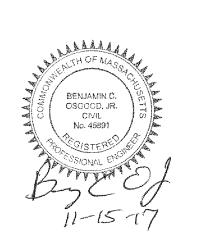
NOTES:

SEE SEPTIC SYSTEM DESIGN PLANS SHEETS CS4501-CS4507.
PLANS TO BE SUBMITTED TO THE BOARD OF HEALTH FOR DETAILS
AND PROFILES FOR PROPOSED SEPTIC SYSTEMS.



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BYFIELD (NEWBURY), MA
ASSESSOR'S MAP R-20 LOT 75
ROAD PROFILE

11-15-2017 1 INITIAL COMMENTS

DATE NO. REVISIONS BY

 PROJECT
 15-1516

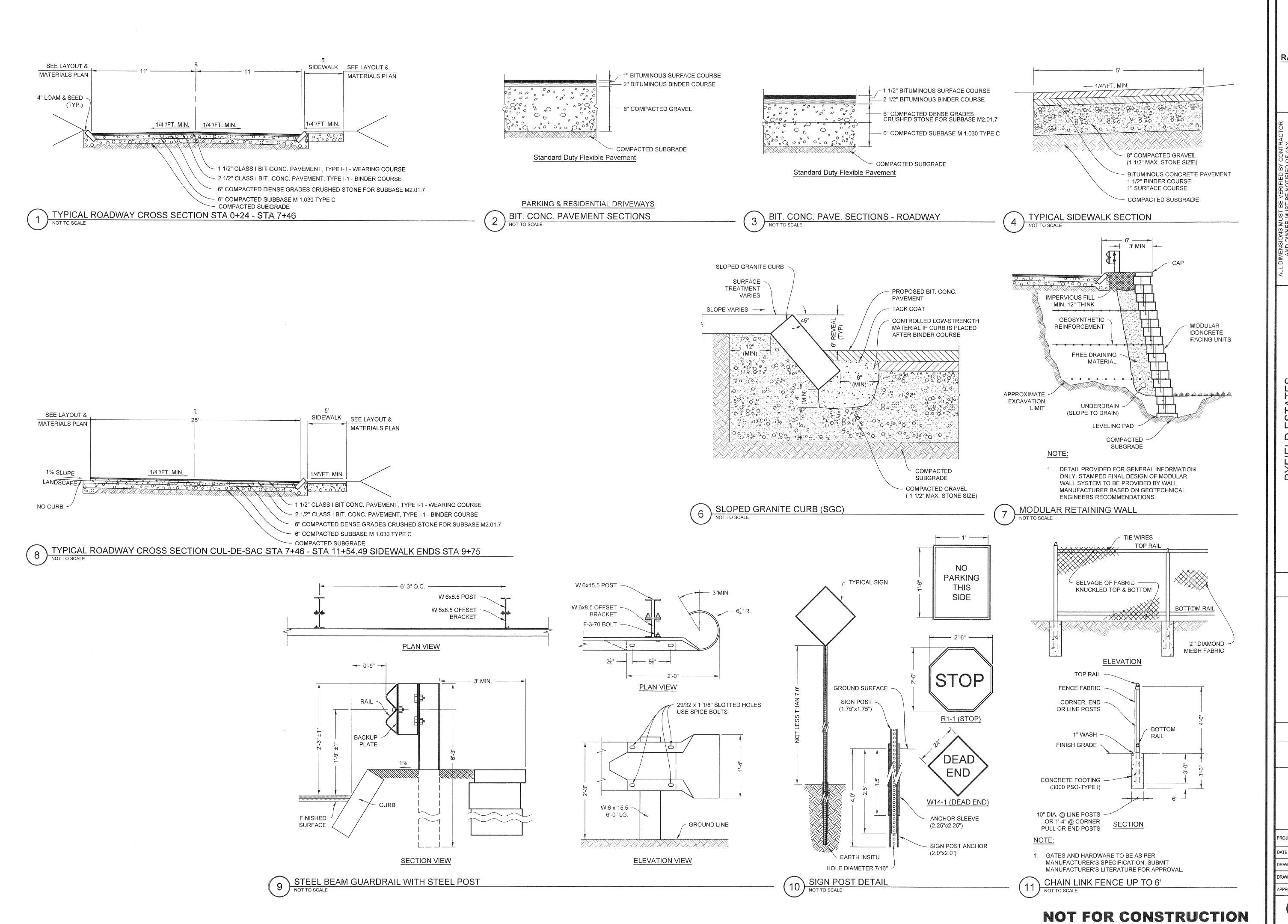
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 1"=40"

 DRAWN BY
 JRA

APPROVED BY BCO

SHEET 9 OF 17



RANGER ENGINEERING & DESIGN, LLC

13 Branch Street, Suite 101

Methuen, MA 01844

T 978.435.1324

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED BY CONTRACTOR
DISCREPANCIES BEFORE PROCEEDING WITH WORK

COMMON ASSET OF THE STATE OF TH

BYFIELD ESTATES

BYFIELD (NEWBURY), MA
ASSESSOR'S MAP R-20 LOT 75

SITE DETAILS

BYFIELD ESTATES, LLC

11-15-2017 1 INITIAL COMMENTS

DATE NO. REVISIONS BY

PROJECT 15-1516

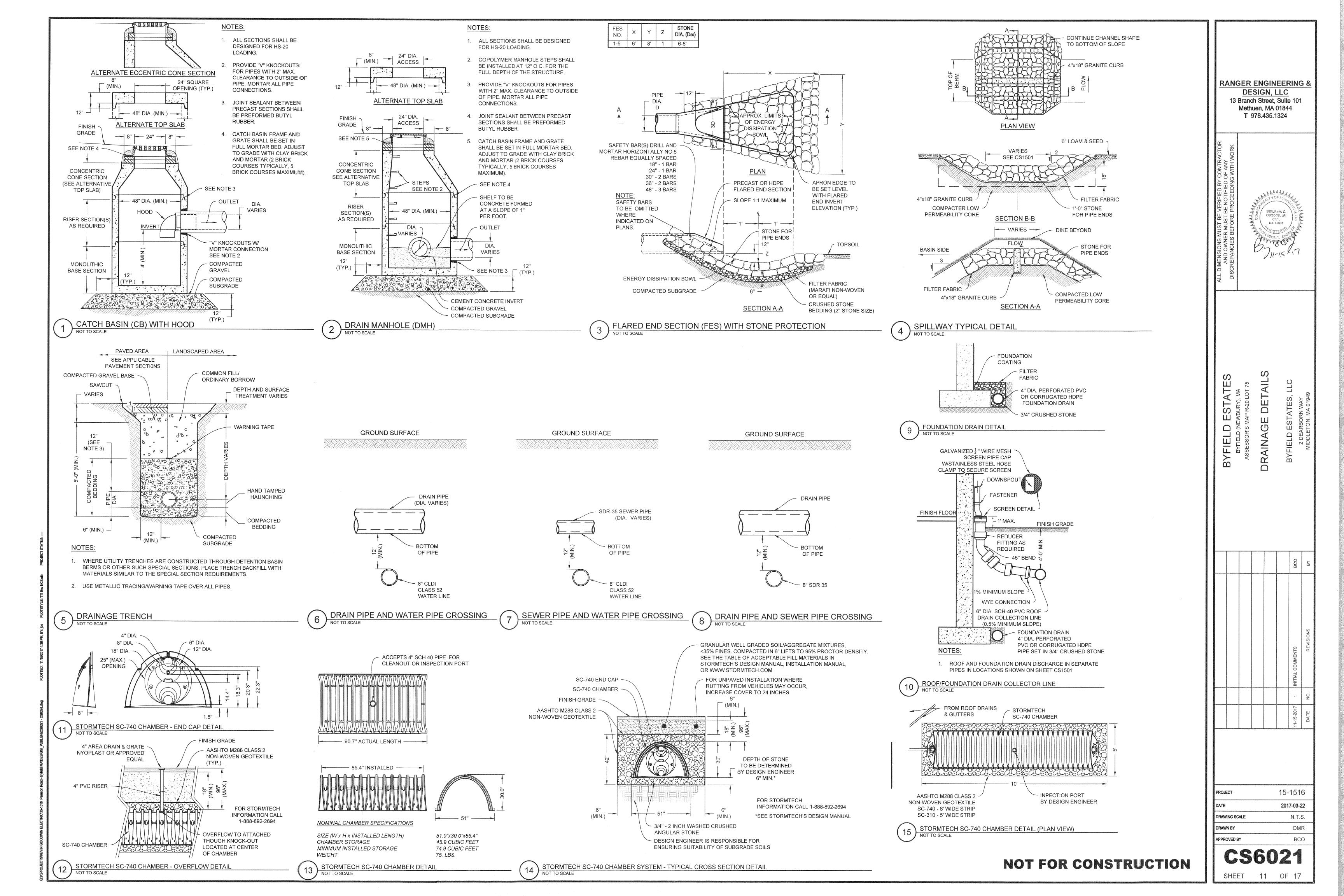
DATE 2017-03-22

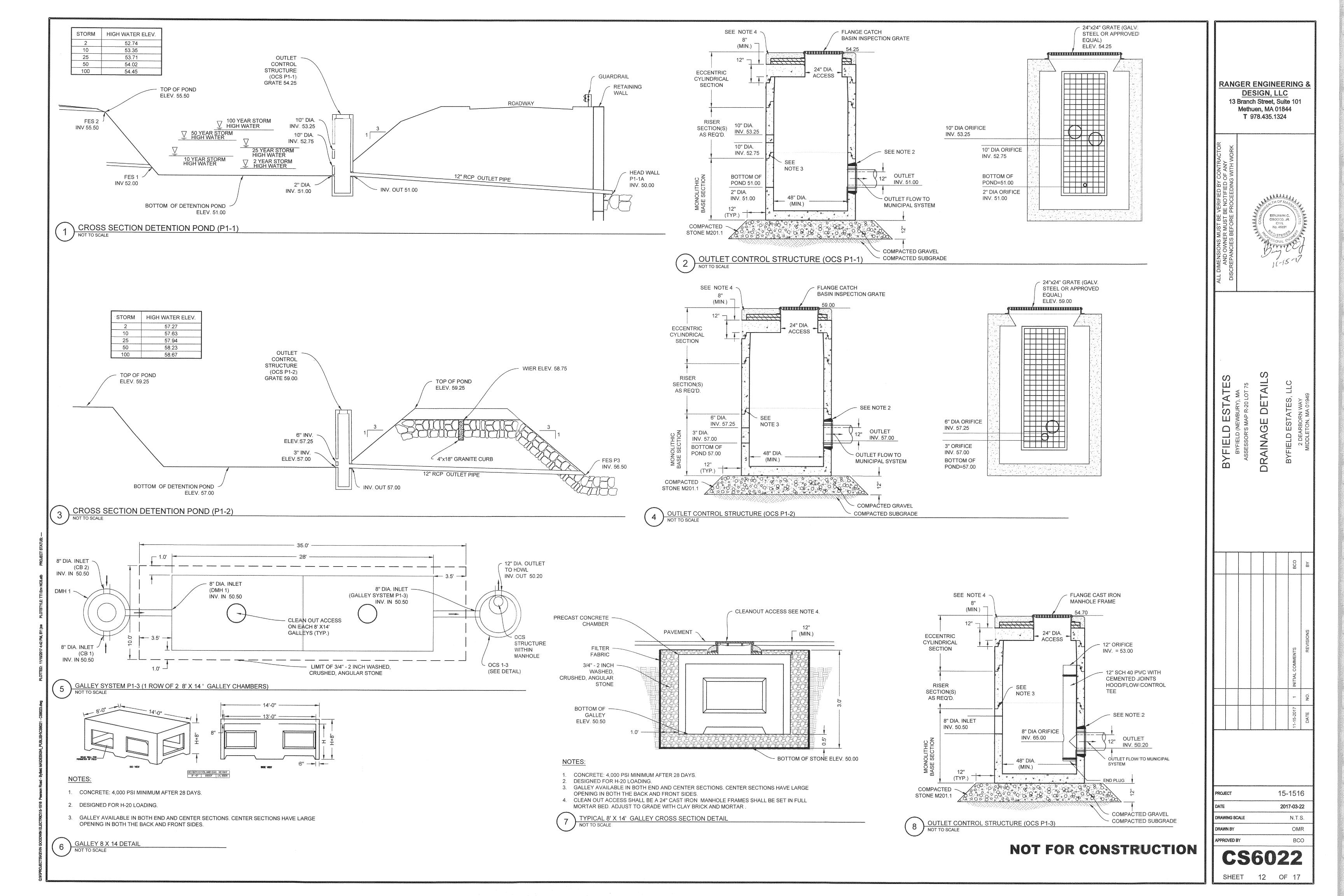
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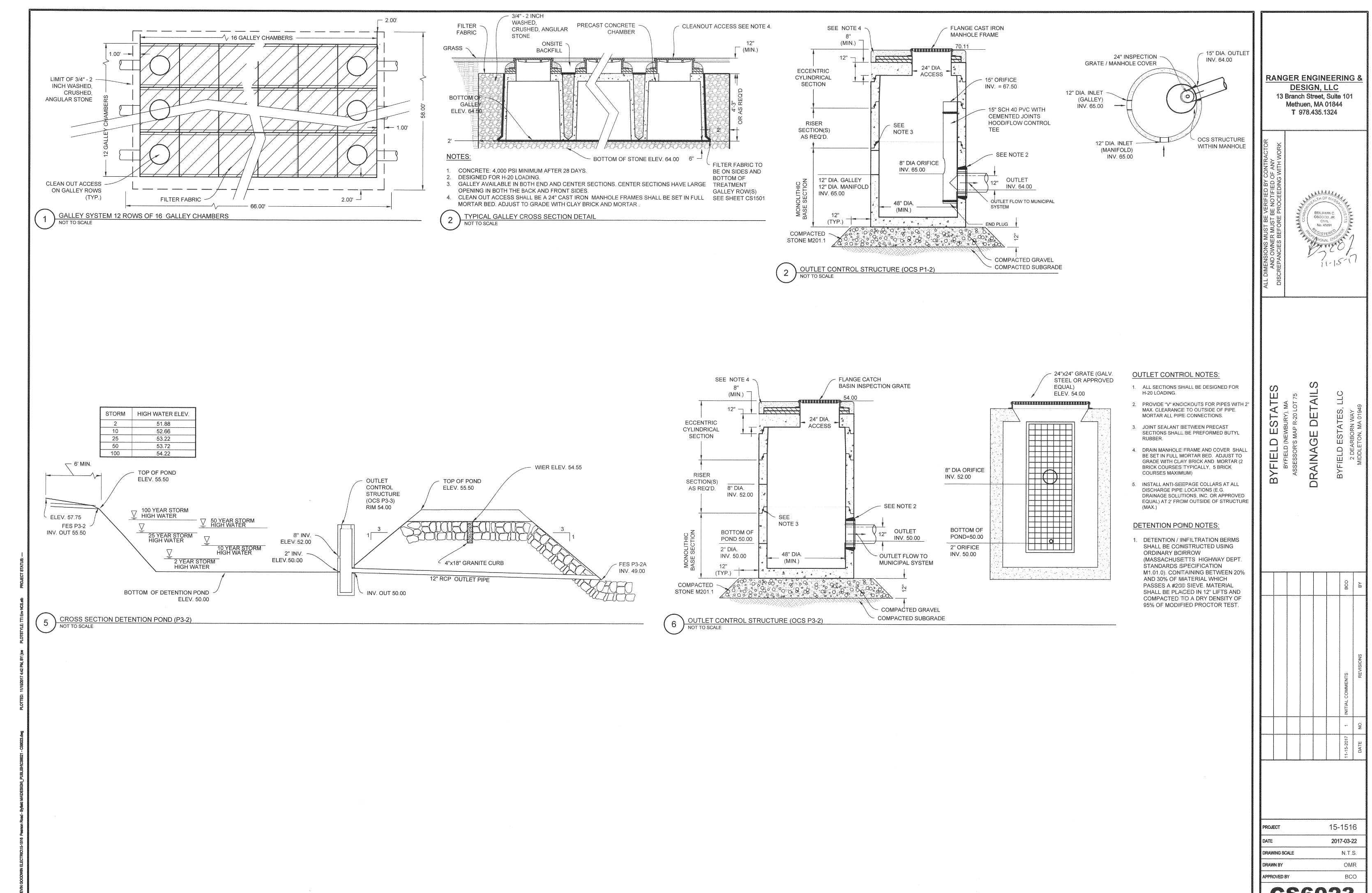
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SHEET 10 OF 17

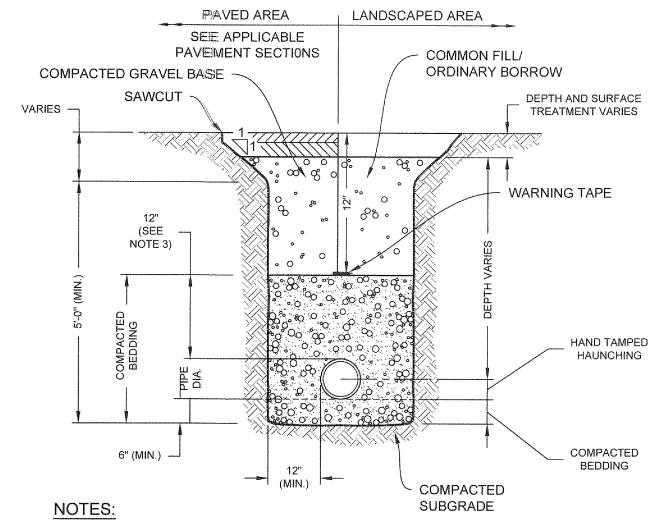






NOT FOR CONSTRUCTION

CS6023
SHEET 13 OF 17



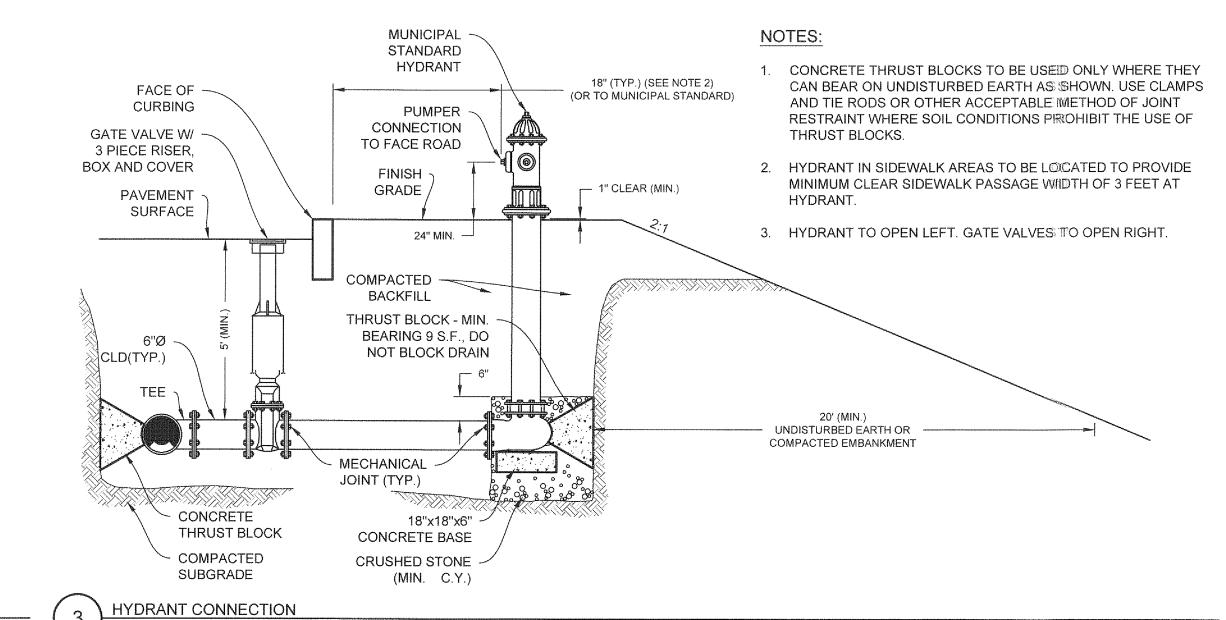
- 1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
- 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

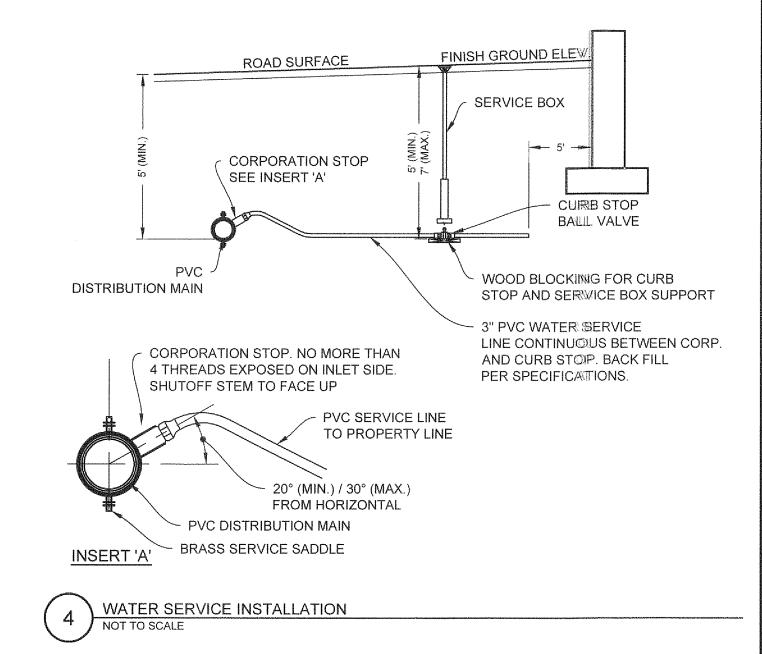
(1)	WATER TRENCH
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- TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
- 2. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.
- 3. CONCRETE SHALL BE 3000 PSI-TYPE |.







RANGER ENGINEERING &

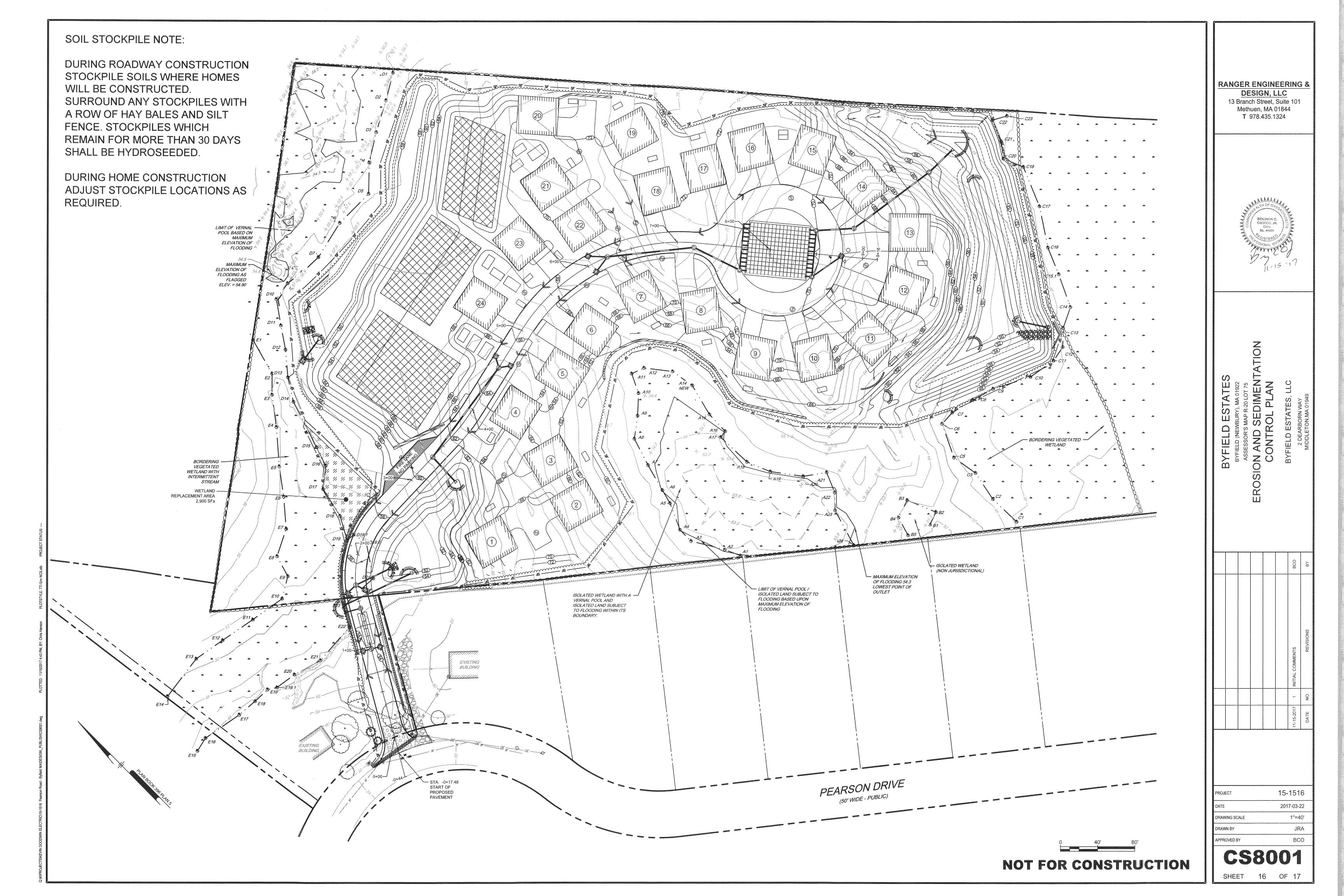
DESIGN, LLC 13 Branch Street, Suite 101 Methuen, MA 01844 T 978.435.1324

	ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK	BENJAMIN C. OSGOOD, JR. CIVIL No. 45891
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DETAILS YFIELD 2 DEA

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BCO CS6051



EROSION CONTROL NOTES (DURING CONSTRUCTION)

- 1. THE CONTRACTOR MUST INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND IN THE DETAILS PRIOR TO STARTING ANY OTHER WORK ON THE SITE. EROSION CONTROL MUST BE INSTALLED AT EVERY INLET STRUCTURE (EXISTING AND PROPOSED) AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- 2. EROSION CONTROLS AS SHOWN ON PLANS SHALL BE INSPECTED, REPAIRED AND/OR MAINTAINED BY THE CONTRACTOR WEEKLY AND WITHIN 12 HOURS OF EACH STORM EVENT.
- 3. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH A DEPTH OF 6 INCHIES.
- 4. SEDIMENT SHALL BE CONTAINED WITHIN THE CONSTRUCTION SITE, AWAY FROM DRAINAGE STRUCTURES.
- 5. STABILIZE SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, OR ROCK RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
- 6. CLEAN OUT ALL CATCH BASINS, DRAIN MANHOLES AND STORM DRAIN PIPES AFTER COMPLETION OF CONSTRUCTION.
- 7. LOAM AND SEED ALL DISTURBED AREAS.
- 8. UPON ESTABLISHMENT OF PERMANENT VEGETATION OVER DISTURBED AREAS, REMOVE AND DISPOSE OF HAYBALES, STAKES AND SILT FENCE.
- 9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND SUPPLEMENT THE SPECIFIED SEDIMENTATION CONTROLS AS NECESSARY TO PREVENT SEDIMENTATION OF OFF-SITE AREAS AND/OR ANY REGULATED RESOURCE AREAS. FAILURE BY THE CONTRACTOR TO CONTROL EROSION, POLLUTION AND/OR SILTATION SHALL BE CAUSE FOR THE OWNER TO EMPLOY OUTSIDE ASSISTANCE OR TO USE HIS OWN MEANS TO PROVIDE THE NECESSARY CORRECTIVE MEASURE. THE COST OF SUCH ASSISTANCE PLUS PROJECT ENGINEERING COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- 10. THE CONTRACTOR SHALL CHECK THE CONDITION OF EROSION CONTROLS DAILY TO KEEP THEM IN GOOD OPERATING CONDITION. EROSION CONTROLS SHALL ALSO BE INSPECTED, REPAIRED AND MAINTAINED BY THE CONTRACTOR WITHIN 11/2 HOURS OF ANY STORM EVENT PRODUCING 1/2 INCH OF RAINFALL OR MORE, EROSION CONTROLS SHALL BE REPLACED WHEN DETERIORATED, OR WHEN ORDERED BY THE ENGINEER. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH A DEPTH OF 6 INCHES.
- 11. IN ADDITION TO THOSE LOCATIONS SHOWN ON THIS PLAN AND ON THE GRADING AND DRAINAGE PLANS, EROSION CONTROLS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: TOE OF SLOPE OF EMBANKMENT CONSTRUCTION, TOE OF TEMPORARY EARTHWORK STOCKPILES.
- 12. EROSION AND SEDIMENTATION CONTROL SHALL BE IN COMPLIANCE WITH MASSACHUSETTS STORMWATER POLICY.

CONSTRUCTION SEQUENCE NOTES:

- 1. INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN.
- 2. COMMENCE CLEARING, GRUBBING AND EARTHWORK.
- 3. CUT AND DISPOSE OF ANY DEBRIS PRODUCED DURING EARTHWORK.
- 4. INSTALL SITE DRAINAGE AND UTILITIES.
- 5. STABILIZE SIDE SLOPES. SIDE SLOPES MUST BE FULLY STABILIZED BEFORE ANY STORMWATER DISCHARGE.
- 6. PERFORM EARTHWORK OPERATIONS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER BEING CONSTRUCTED. TEMPORARY GRADED AREAS SHOULD BE STABILIZED WITH MULCH BY OCTOBER 18ST, SO AS NOT TO BE LEFT EXPOSED DURING WINTER CONDITIONS.
- 7. INSTALLATION OF UNDERGROUND UTILITIES AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT IN ACCORDANCE WITH THE PLANS. THE CONTROLS SHALL REMAIN UNTIL THE SITE IS SUFFICIENTLY STABILIZED. ALL PERMANENT STORMWATER MANAGEMENT MEASURES SHALL HAVE A HEALTHY STAND OF VEGETATION ESTABLISHED PRIOR TO DIRECTING RUNOFF INTO THEM.
- 8. AS THE BUILDING(S) ARE COMPLETED, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 72 HOURS.
- 9. FINAL PAVING OF DRIVEWAYS.
- 10. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES.
- 11. INSTALL SITE LANDSCAPING AND PERMANENT SEEDING OF ALL DISTURBED AREAS.
- 12. AFTER ALL SEEDED AREAS HAVE ESTABLISHED STABLE GROWTH, ALL TEMPORARY EROSION CONTROL CAN BE REMOVED.
- 13. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL AUTHORITIES RESPONSIBLE FOR INSPECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL REQUIRED INSPECTION SIGN-OFFS.

OPERATION AND MAINTENANCE:

CONSTRUCTION PHASE

THE BMPS ASSOCIATED WITH THIS PROJECT WILL BE OWNED BY THE PROJECT ASSOCIATION, WHO WILL BE RESPONSIBLE FOR INSPECTION, OPERATION AND MAINTENANCE.

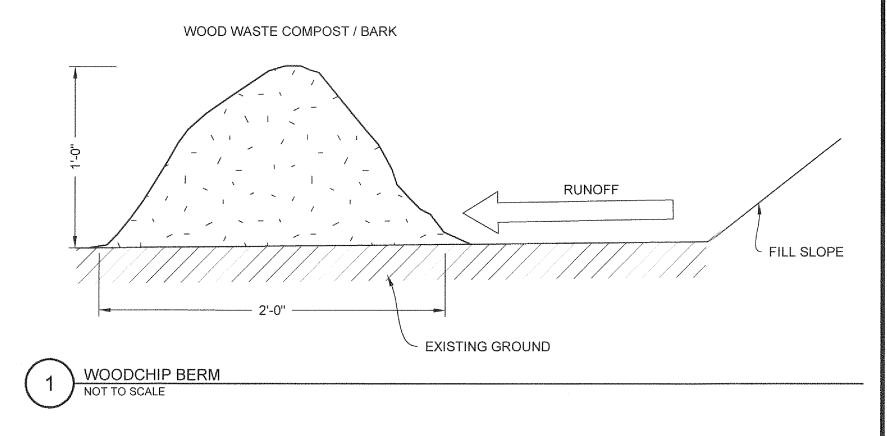
- 1. THE CONTRACTOR IS TO INSTALL AND MAINTAIN DRAINAGE FACILITIES AS SHOWN ON PLAN (BY TTI ENVIRONMENTAL INC., DATED MARCH, 2017).
- 2. PRIOR TO CONSTRUCTION, ALL EROSION/SILTATION CONTROL DEVICES SHOWN ON ABOVE PLAN ARE TO BE INSTALLED. TO PREVENT SILT INTRUSION INTO THE DRAINAGE SYSTEM DURING CONSTRUCTION, THE CONTRACTOR IS TO INSTALL AND MAINTAIN INLET PROTECTION AT ALL CATCH BASINS, AND SET A SILT FENCE AND HAY BALES AT ALL SLOPES WHICH MAY ERODE IN THE DIRECTION OF ANY OPEN DRAINAGE FACILITIES. SUCH PREVENTIVE MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- 3. ALL CONSTRUCTION OF DRAINAGE FACILITIES IS TO BE INSPECTED BY TTI ENVIRONMENTAL INC. TO VERIFY CONFORMANCE TO THE DESIGN PLAN.
- 4. THE SEQUENCE OF DRAINAGE CONSTRUCTION SHALL BE AS FOLLOWS:
 A CLEAR GRUB EXCAVATE AREAS FOR DRAINAGE SYSTEMS
- A. CLEAR, GRUB, EXCAVATE AREAS FOR DRAINAGE SYSTEMS.
 B. TRENCH AND INSTALL PIPES, CATCH BASINS MANHOLES
- B. TRENCH AND INSTALL PIPES, (C. INSTALL INLET PROTECTION.
- 5. EROSION CONTROLS ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS. UPON DISCOVERY OF SILT BUILD-UP IN ANY CATCH BASIN SUMPS, OR ANY OTHER STRUCTURES, THEY ARE TO BE CLEANED.
- 6. ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH A LAYER OF MULCH HAY OR JUTE BLANKETS-AS NEEDED FOR SLOPES STEEPER THAN 3:1.
- 7. UPON INSTALLATION OF CATCH BASINS, INLET PROTECTION-AS DESCRIBED ON SITTE PLANS- SHALL BE INSTALLED AND MAINTAINED UNTIL READY FOR PAVING.
- 8. PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES AND PIPES SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION. DURING CONSTRUCTION OF OTHER SITE FEATURES, ALL DRAINAGE FACILITIES SHIALL BE INSPECTED ON A DAILY BASIS AND CLEANED/REPAIRED IMMEDIATELY UPON DISCOVERY OF SEDIMENT BUILD-UP OR DAMAGE.
- 9. AFTER PAVING IS INSTALLED, IT SHALL BE SWEPT CLEAN ON A REGULAR BASIS.
- 10. THE ENTIRE DRAINAGE SYSTEM MUST BE VACUUMED OUT BEFORE THE ISSUANCE OF THE LAST CERTIFICATE OF OCCUPANCY

POST-DEVELOPMENT PHASE

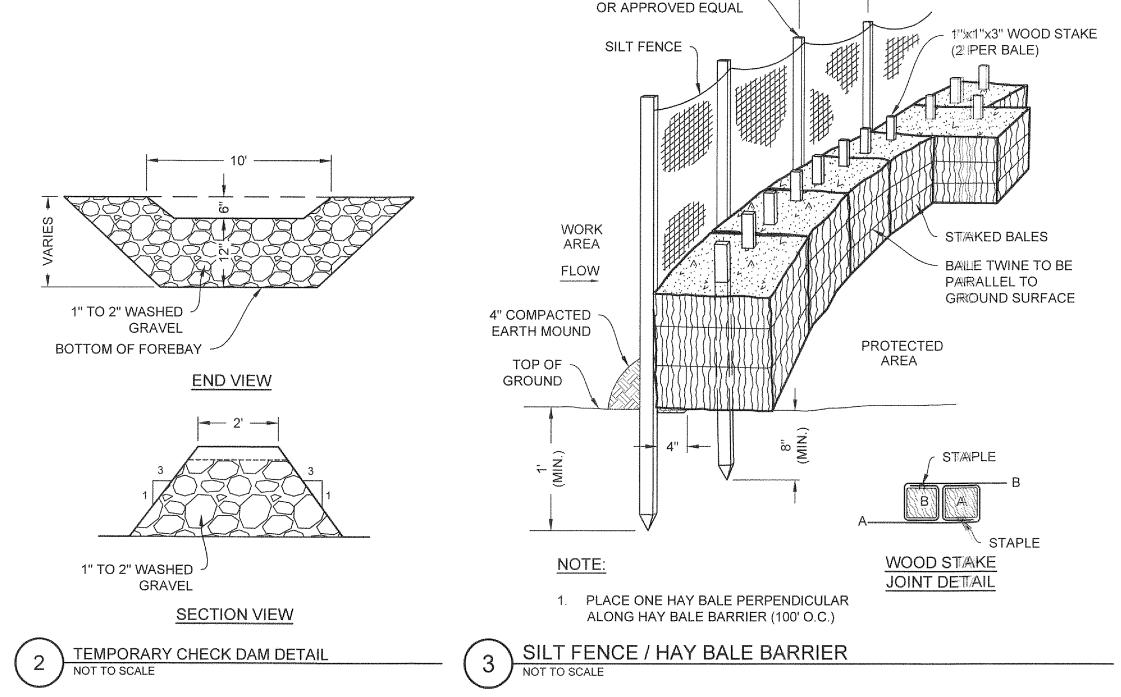
THE OWNER/OCCUPANT IS TO BE RESPONSIBLE FOR MAINTENANCE OF ALL DRAINAGE STRUCTURES IN THE PROJECT - INCLUDING ROOF DRAINS, AND DRAIN PIPES. THE FUTURE OWNER IS EXPECTED TO BE THE PROJECT ASSOCIATION, WHO WILL ULTIMATELY BE RESPONSIBLE FOR COMPLIANCE WITH THE PLAN. IN THE EVENT OF CHANGE OF OWNERSHIP, THE O & M PLAN SHALL BE TRANSFERRED TO THE NEW OWNER.

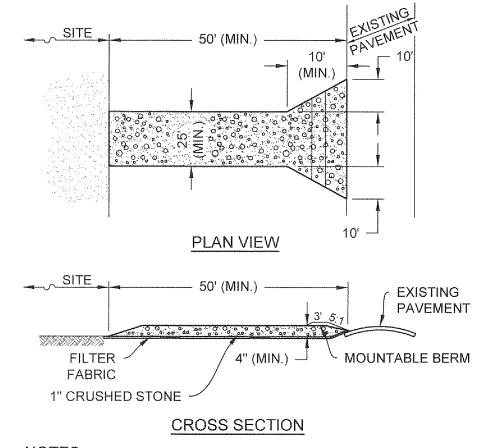
REGULAR MAINTENANCE IS TO INCLUDE THE FOLLOWING:

- 1. INSPECTION OF ALL DRAINAGE FACILITIES (CATCH BASINS, PIPES AND DETENTION BASINS. EVERY THREE MONTHS. DURING THESE INSPECTIONS, THE INSPECTOR (A REGISTERED PROFESSIONAL CIVIL ENGINEER QUALIFIED IN DRAINAGE SYSTEMS AS DESIGNATED BY THE PROJECT ASSOCIATION) SHALL LOOK FOR EVIDENCE OF THE FOLLOWING: STRUCTURAL DAMAGE, SILT ACCUMULATION (NEAR INLET INVERTS ON CATCH BASINS, INFILTRATORS), AND IMPROPER FUNCTION. A REPORT ON THE SYSTEM SHALL BE DELIVERED TO THE PROJECT ASSOCIATION, WITH A COPY DELIVERED TO THE TOWN ENGINEER.
- 2. AFTER INSPECTION, IF ANY OF THE ABOVE CONDITIONS EXIST, THE INSPECTOR SHIALL NOTIFY THE PROJECT ASSOCIATION. WHO SHALL IMMEDIATELY ARRANGE FOR ALL NECESSARY REPAIRS AND/OR SEDIMENT REMOVAL.
- 3. THE ROAD WAY IS TO BE SWEPT CLEAN, AS REQUIRED (I.E., VISUALLY NOTICEABLE DEBRIS BUILD-UP). A MINIMUM OF ONCE PER YEAR.
- 4. ALL GRADED SLOPES SHALL BE INSPECTED EVERY SPRING FOR EROSION. UPON DISCOVERY OF ANY FAILURE (IE. EROSION), LOAM AND SEED SHALL BE PUT IN PLACE AND NURTURED.
- 5. DURING THE WINTER MONTHS, ALL SNOW IS TO BE STORED SUCH THAT SNOW MELT IS CONTROLLED WITHIN THE PAVED AREA AND ENTERS THE STORMWATER TREATMENT SYSTEM.



1 1/2"x1 1/2"x4" WOOD STAKE

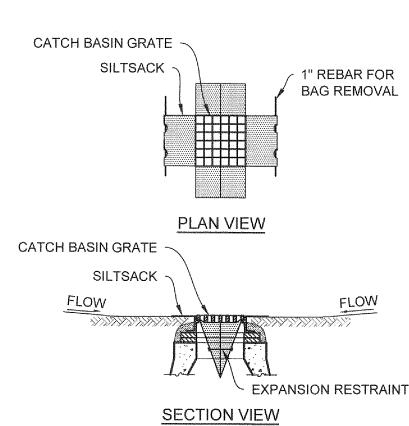




NOTES:

- 1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

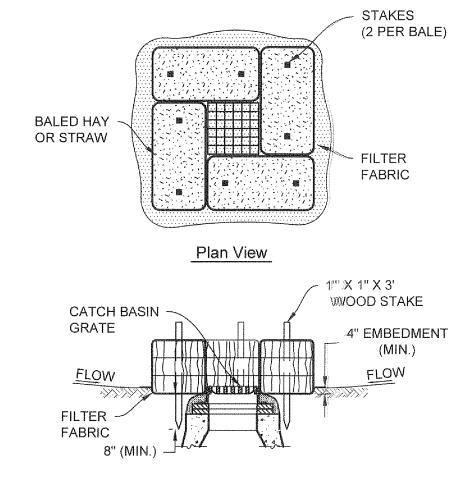
4 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:

- INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLANE BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE ID PLACED AND HAY BALES HAVE BEEN REMOVED.
- 2. GRATE TO BE PLACED OVER SILTSACK.
- 3. SILTSACK SHALL BE INSPECTED WEEKLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 4. SILTSACKS SHALL NOT BE INSTALLED WITHIN PARK ST. DURING THE WINTER MONTHS.

5 SILTSACK SEDIMENT TRAP
NOT TO SCALE



NOTES:

1. ENCLOSE STRUCTURE WITH HAYBALES IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION. MAINTAIN UNITIL PAVING BINDER COURSE IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.

Section View

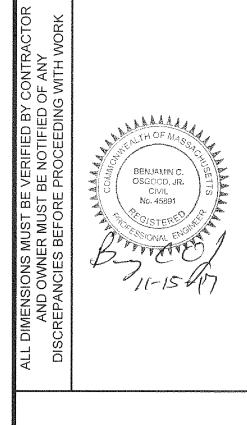
- 2. IF GRATE IS AGAINST EXISTING CURB THEN HIAY BALES ARE TO BE PLACED AROUND THREE SIDES OF GRATE ONLY.
- 3. GRATE TO BE PLACED OVER FILTER FABRIC.
- 4. BALES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS. REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.

NOT FOR CONSTRUCTION

6 CATCH BASIN SEDIMENT TRAP
NOT TO SCALE

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BYFIELD (NEWBURY), MA 01922
ASSESSOR'S MAP R-20 LOT 75
EROSION AND SEDIMENTAT
CONTROL NOTES
BYFIELD ESTATES, LLC

 PROJECT
 15-1516

 DATE
 2017-03-22

 DRAWING SCALE
 N.T.S.

 DRAWN BY
 JRA

 APPROVED BY
 BCO

CS8501SHEET 17 OF 17