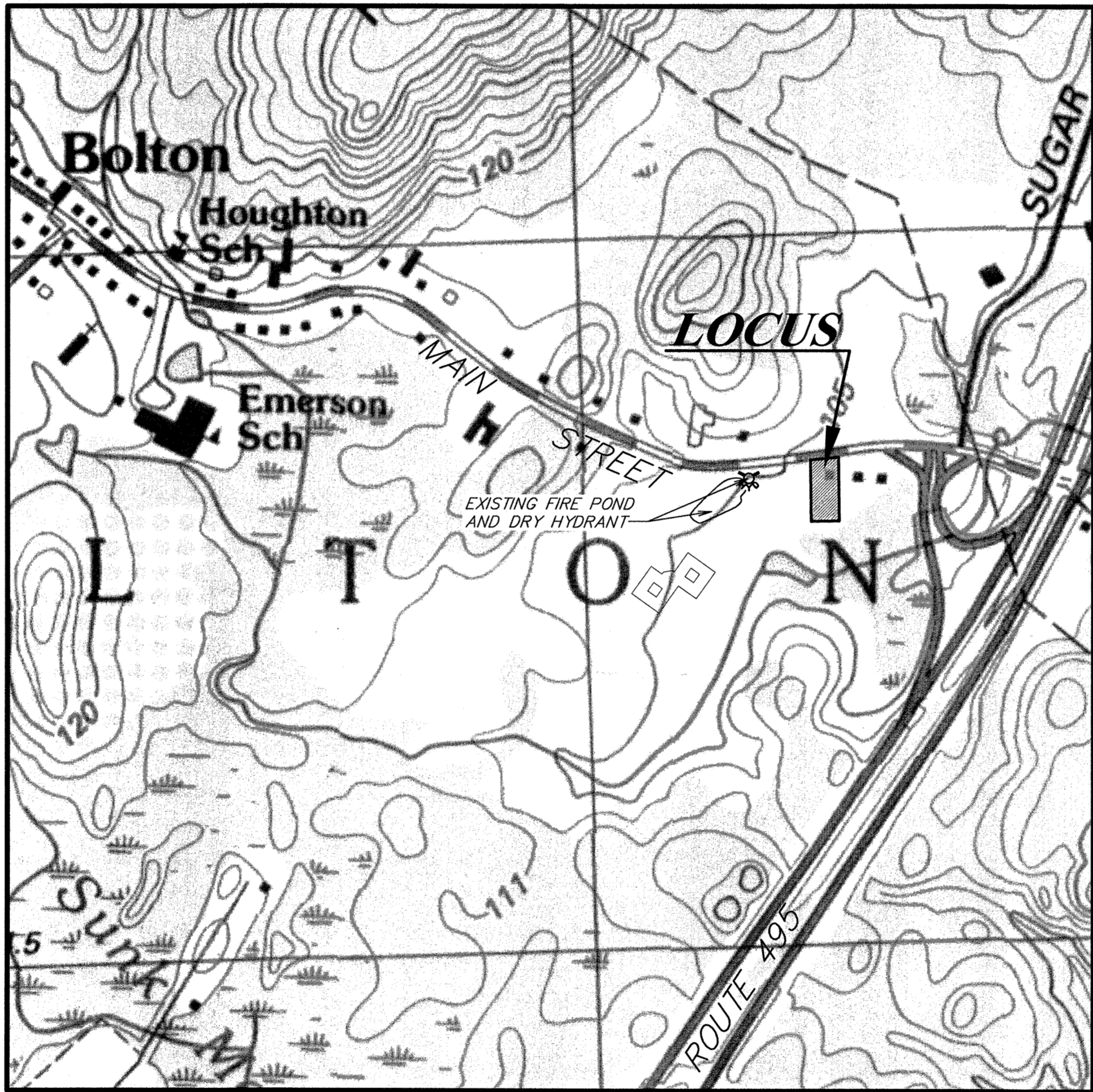


SITE PLAN OF LAND IN
BOLTON, MASS.
PREPARED FOR WACHUSETT REALTY, LLC
"562 MAIN STREET"

OWNER
MR. R. LEE BRACY, JR.
562 MAIN STREET
BOLTON, MA 01740

APPLICANT
WACHUSETT REALTY, LLC
200 CHURCH STREET
CLINTON, MA 01510

CIVIL ENGINEER & LAND SURVEYOR:
DAVID E. ROSS ASSOCIATES, INC.
111 FITCHBURG ROAD
P.O. BOX 368
AYER, MA 01432
PH. (978) 772-6232
FAX (978) 772-6258



LOCUS MAP
SCALE: 1"=500'

<u>SITE PLAN SHEET INDEX</u>
SHEET 1 - EXISTING CONDITIONS PLAN
SHEET 2 - SITE LAYOUT PLAN
SHEET 3 - SITE GRADING & UTILITY PLAN
SHEET 4 - LANDSCAPING PLAN
SHEET 5 - CONSTRUCTION DETAILS
SHEET 6 - STORMWATER MANAGEMENT, SEDIMENTATION & EROSION CONTROL PLAN
 <u>ARCHITECTURAL SHEET INDEX</u>
SHEET DR.1 - FIRST FLOOR PLAN
SHEET DR.1A - ATTIC PLAN
SHEET DR.2 - FRONT AND RIGHT SIDE ELEVATIONS
SHEET DR.3 - REAR AND LEFT SIDE ELEVATIONS
SHEET DR.4 - SITE ELEVATIONS
SHEET DR.5 - SITE LIGHTING PLAN AND DETAILS

REVISIONS		
DATE	SHEETS	COMMENT
5-29-14	1-3	ORIGINAL ENDORSEMENT
6-2-14	1-3	GENERAL REVISIONS
8-22-14	1-6	FOR PB SUBMITTAL
10-6-14	1-6	REVISIONS PER PB COMMENTS

N/F
TOWN OF BOLTON

DIRT DRIVE

TBM NAIL SET IN POLE
#34/1 ELEV.=91.24'

APPROX. LIMIT OF IWPA
PER MASSGIS

MAIN STREET
ROUTE 117

TABLE OF ZONING COMPLIANCE

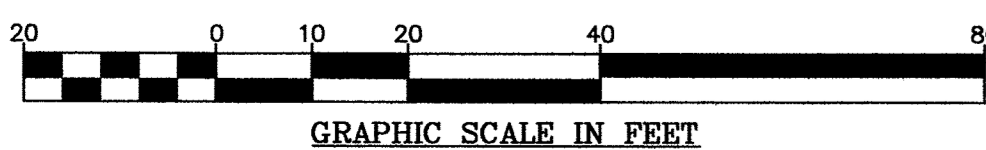
ZONING CRITERIA (MAXIMUM OR MINIMUM)	LIMITED BUSINESS	PROPOSED
LOT AREA	1.50 ACRES	0.85 ACRES [1]
MIN. FRONTAGE	200'	129.42' [1]
MIN. LOT WIDTH	150'	129.03' [1]
MIN. FRONT SETBACK	150'	45.8' [2]
MIN. SIDE YARD	50'	34.4' [2]
MIN. REAR YARD	50'	143.9'
MAX. LOT COVERAGE	8% (0.068 ACRES)	7.8% (0.066 ACRES)
MAX. IMPERVIOUS COVERAGE	50% (0.425 ACRES)	47.6% (0.405 ACRES)
MAX. BUILDING HEIGHT	32'	±25'
MAX. BUILDING HEIGHT (STORIES)	2	1
PARKING SPACES [3]	1,965 S.F.	5,360 S.F.

NOTE:

- [1] EXISTING PARCEL IS A LEGALLY EXISTING, PRE-EXISTING NONCONFORMING PARCEL.
- [2] ZONING RELIEF IS REQUIRED FROM THE TOWN OF BOLTON ZONING BOARD OF APPEALS FOR THE PROPOSED BUILDING CONSTRUCTION.
- [3] A PARKING AREA, (NOT INCLUDING ACCESS WAYS) OF AT LEAST ONE SQUARE FOOT FOR EACH ONE SQUARE FOOT OF BUSINESS AND COMMERCIAL BUILDING AREA SHALL BE PROVIDED. THE PARKING AREA IS DEFINED TO INCLUDE THE PARKING SPACES AND ANY AISLES BETWEEN THE SPACES, BUT NOT ANY DRIVEWAYS LEADING TO THE PARKING AREA.

LEGEND

- 92.55 PROPOSED SPOT GRADE
92.00 TO PROPOSED SPOT GRADE TOE OF CURB
110 PROPOSED CONTOUR
PROPOSED BUILDING
PROPOSED SIGN
PROPOSED EDGE OF PAVEMENT
PROPOSED EDGE OF PAVEMENT W/ BERM
PROPOSED SIDEWALK
PROPOSED PAVEMENT STRIPING
PROPOSED HANDICAP PARKING SPACE
12 NUMBER OF PARKING SPACES IN ROW
D PROPOSED DRAIN LINE
CTB PROPOSED CATCHBASIN
S PROPOSED SEWER MANHOLE
F.M. PROPOSED GRAVITY SEWER LINE
PROPOSED SEWER FORCE MAIN
PROPOSED SITE LIGHTING
PROPOSED EROSION CONTROL BARRIER



N/F
FIVE FIFTY SIX GREAT
ROAD REALTY TRUST

SITE LAYOUT PLAN 562 MAIN STREET - BOLTON

SITE PLAN OF LAND IN
BOLTON, MASSACHUSETTS
PREPARED FOR
WACHUSETT REALTY, LLC

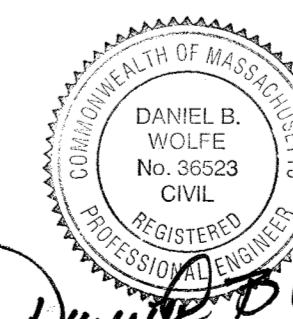
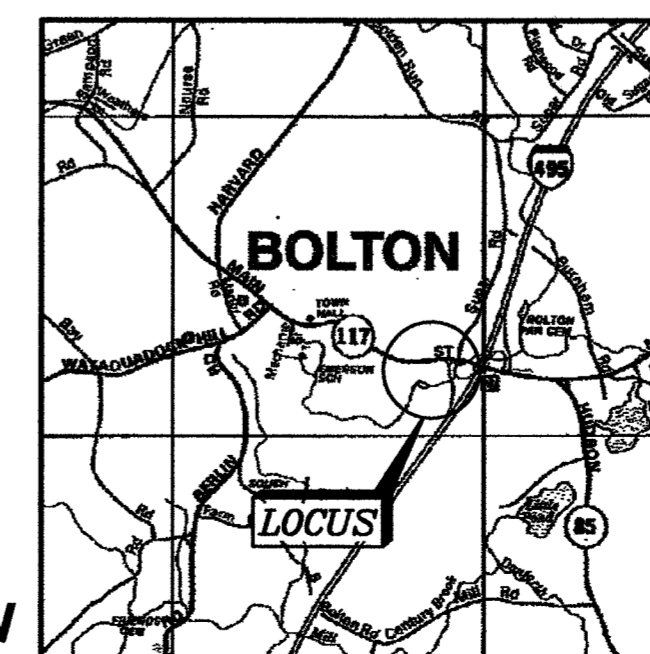
SCALE: 1" = 20'

MAY, 2014

DAVID E. ROSS ASSOCIATES, INC.
CIVIL ENGINEERS - LAND SURVEYORS - ENVIRONMENTAL CONSULTANTS

111 FITCHBURG ROAD, P.O. BOX 368, AYER, MASS. 01432-0368
978-772-6232 368-1065 448-3916 FAX 978-772-6258

JOB NO. 29227 SHEET 2 OF 6 PLAN NO. L-12371



REVISIONS

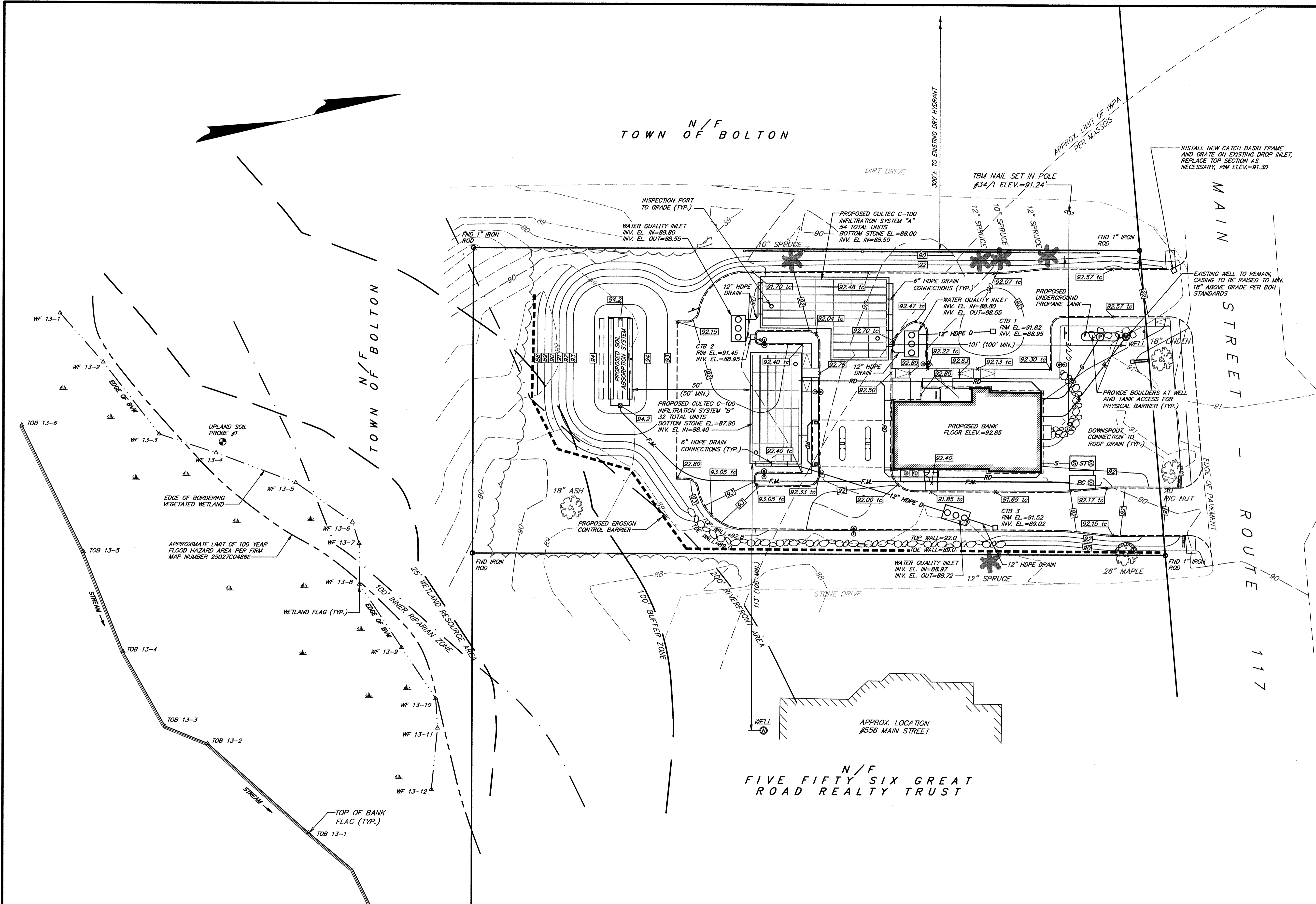
- 5-29-14 ORIGINAL ENDORSEMENT
6-2-14 GENERAL REVISIONS
8-22-14 FOR PB SUBMITTAL
10-6-14 REVISIONS PER PB COMMENTS

SITE PLAN REVIEW SUBMITTAL - NOT FOR CONSTRUCTION

N/F
TOWN OF BOLTON

LEGEND

- PROPOSED SPOT GRADE
- PROPOSED SPOT GRADE TOE OF CURB
- PROPOSED CONTOUR
- PROPOSED BUILDING
- PROPOSED SIGN
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT W/ BERM
- PROPOSED SIDEWALK
- PROPOSED PAVEMENT STRIPING
- PROPOSED HANDICAP PARKING SPACE
- NUMBER OF PARKING SPACES IN ROW
- PROPOSED DRAIN LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED CATCHBASIN
- PROPOSED SEWER MANHOLE
- PROPOSED GRAVITY SEWER LINE
- PROPOSED SEWER FORCE MAIN
- PROPOSED SITE LIGHTING
- PROPOSED EROSION CONTROL BARRIER



N/F
FIVE FIFTY SIX GREAT
ROAD REALTY TRUST

SITE GRADING & UTILITY PLAN 562 MAIN STREET - BOLTON

SITE PLAN OF LAND IN
BOLTON, MASSACHUSETTS
PREPARED FOR
WACHUSETT REALTY, LLC

SCALE: 1" = 20'

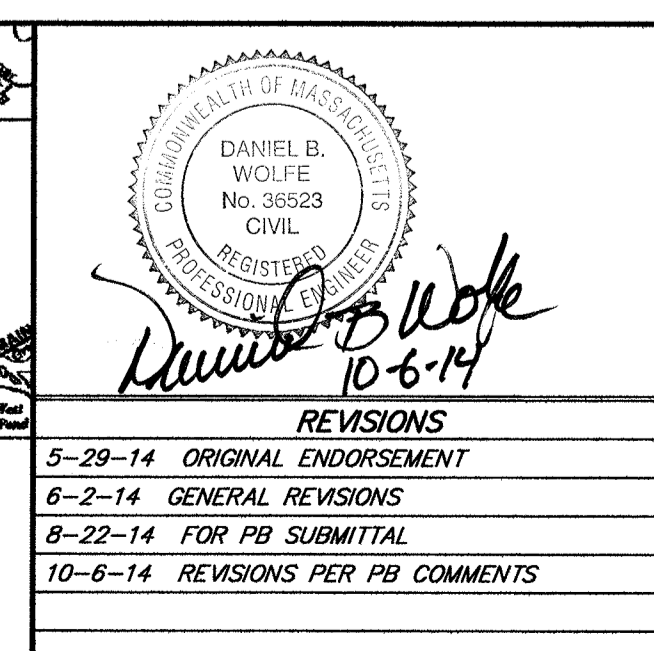
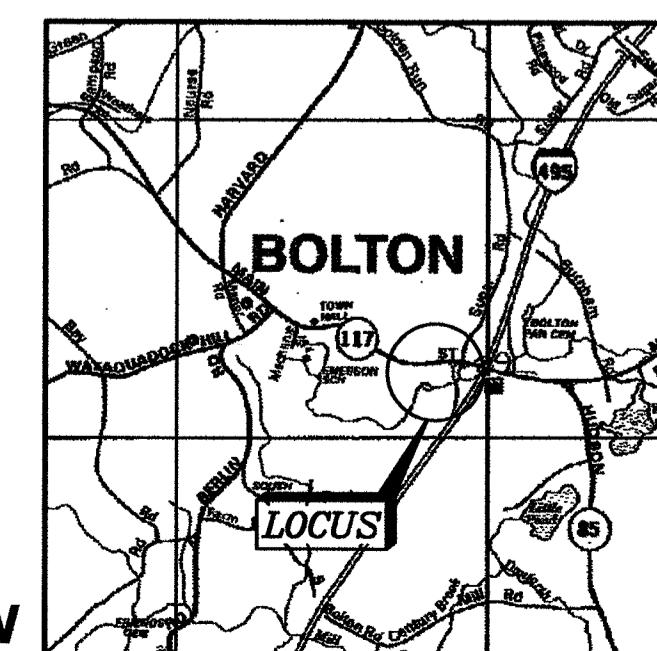
MAY, 2014

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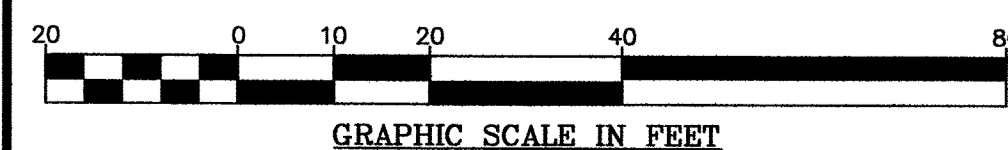
JOB NO. 29227 SHEET 3 OF 6 PLAN NO. L-12371



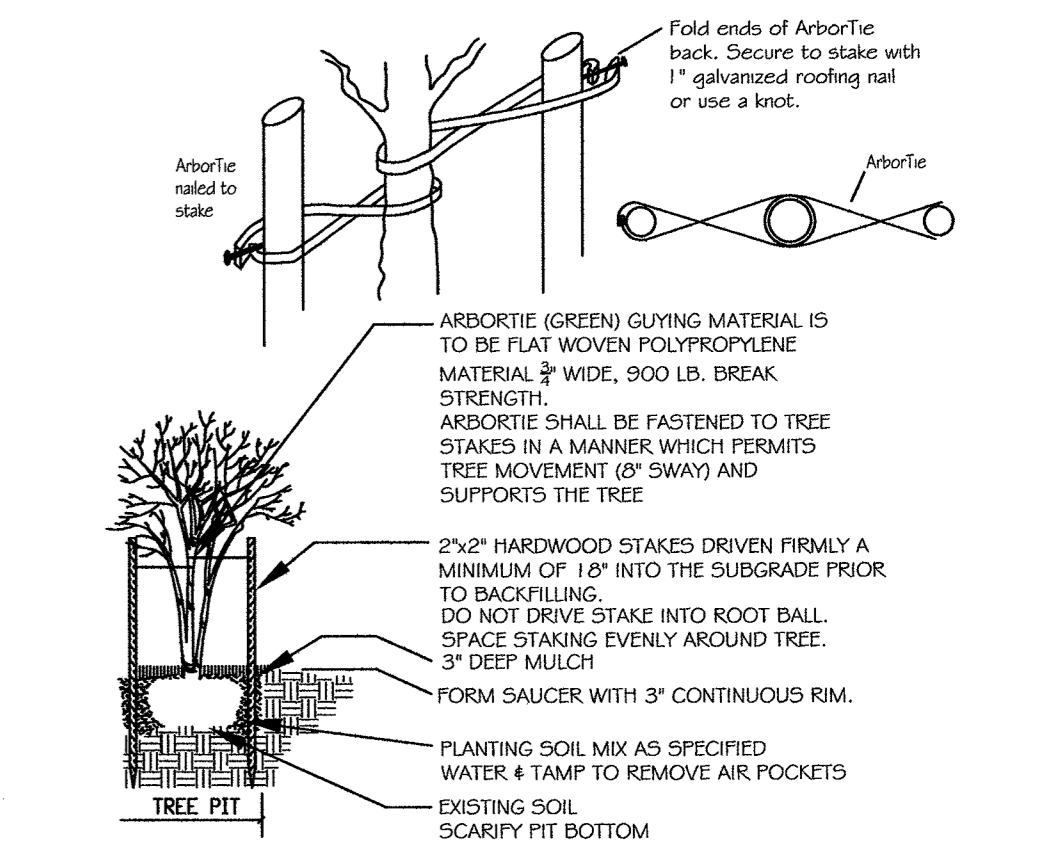
REVISIONS

5-29-14	ORIGINAL ENDORSEMENT
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8-22-14	FOR PB SUBMITTAL
10-6-14	REVISIONS PER PB COMMENTS

SITE PLAN REVIEW SUBMITTAL - NOT FOR CONSTRUCTION



GRAPHIC SCALE IN FEET



NOTES:

1. STAKE TO MAIN BRANCHES AS NECESSARY FOR FIRM SUPPORT.
2. PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
3. GUY WIRE SHALL NOT TOUCH OR RUB ADJACENT TRUNKS OR BRANCHES.
4. REMOVE ALL CONTAINERS AND BASKETS FROM ROOT BALL.
5. REMOVE BURLAP FROM TOP ONE THIRD OF ROOT BALL.
6. LOOSEN ROOTBALL PRIOR TO PLANTING.

Diagram illustrating the tree support system components and installation instructions:

- DO NOT TRIM LEADER
- SET TREE PLUMB PRIOR TO GLYTING; ORIGINAL GRADE OF TREE BASE TO BE PLANTED SLIGHTLY HIGHER (2.5'-3') ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT
- 3" PINE BARK MULCH
- CUT AND REMOVE BURLAP FROM TOP OF ROOTBALL; ROUGHEN SIDES OF PIT PRIOR TO PLANTING
- EARTH ANCHOR
- 6" HIGH MOUND OF TOPSOIL; COMPACTED NOTE: SET CROWN OF TREE 2.5'-3' ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT
- 3-5" x 3" ROOTBALL
- TRUNK PIT
- LOOSEN SUPPORTS AFTER 1st GROWING SEASON; REMOVE AFTER 2nd GROWING SEASON
- ABSORBENT SHALL BE FASTENED TO TREE STAKES IN A MANNER WHICH PERMITS FREE MOVEMENT (2° SWAY) AND SUPPORTS THE TREE
- WIDE, 900 LB. BREAK STRENGTH
- WOVEN POLYPROPYLENE, 3/4"
- SET TREE PLUMB PRIOR TO GLYTING; ORIGINAL GRADE OF TREE BASE TO BE PLANTED SLIGHTLY HIGHER (2.5'-3') ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT

CONIFEROUS TREE STAKING
STANDARD DETAIL

Diagram illustrating the correct method for planting a shrub:

- REMOVE ALL DEADWOOD, (DO NOT REMOVE ANY OTHER VEGETATION.)
- PLANT SHRUB AT DEPTH EQUAL TO 2" LESS THAN THE DISTANCE FROM BOTTOM OF ROOTBALL TO ROOT COLLAR.
- CUT AND REMOVE BURLAP FROM ENTIRE ROOTBALL.
- 3" MULCH (UNLESS OTHERWISE NOTED ON PLANT.)
- MOUND WITH EXCAVATED SOIL TO 3" ABOVE FINISHED GRADE.
- BACKFILL WITH PLANTING MIX.
- ROOTBALL ON UNDISTURBED SUBGRADE.
- 2-5 x ROOTBALL DIA. (MIN.)

SHRUB PLANTING DETAIL

1. NOTIFY DUE-TO-SAFE AT 1-888-633-SUPPLY AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION.
2. THE CONTRACTOR SHALL SUFFICE ALL PLANT MATERIAL AND MULCH IN SUFFICIENT QUANTITIES TO COMPLETE PLANTING AS SHOWN ON THE DRAWINGS.
3. DRAWINGS QUANTITIES TAKE PRECEDENCE OVER PLANT LIST QUANTITIES.
4. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES SET FORTH BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
5. ALL TREES AND SHRUBS SHALL BE PLANTED WITH THE "BEST FACE" SHOWING. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR BURLAPPED AND GROWN IN CONTAINERS.
6. ALL CONTAINER GROWN STOCK SHALL BE HEALTHY, VIGOROUS, WELL ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE GROWING. THEY SHALL HAVE TOPS OF GOOD QUALITY, NO APPARENT INJURY AND BE IN A HEALTHY GROWING CONDITION. A CONTAINER GROWN PLANT SHALL HAVE WELL ESTABLISHED ROOT SYSTEM REACHING THE PLANTING AREA TO MAINTAIN A FIRM BALL.
7. THE QUALITY OF ALL TREES & SHRUBS IS TO BE NORMAL FOR THE SPECIES. ALL PLANTS ARE TO HAVE DEVELOPED ROOT SYSTEMS, TO BE FREE OF DISEASES AND INJURIES, AND FREE OF MECHANICAL INJURIES, AND IN ALL RESPECTS BE SUITABLE FOR PLANTINGS.
8. ALL CONIFERS SHALL HAVE DORMANT BUDS AND SECONDARY NEEDLES.
9. WHERE SPECIFIED, CALIPER SIZE IS TO BE THE OVERRIDING FACTOR IN TREE SELECTION. CALIPER SIZE SHALL BE MEASURED 12" ABOVE THE TRUNK AT ALL TIMES.
10. PLANT SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.
11. ALL DISTURBED AREAS NOT SHOWN OTHERWISE SHALL BE AMENDED AND SEEDED TO MATCH EXISTING GRADE AND CONDITIONS.
12. ALL DISTURBED AREAS NOT SHOWN OTHERWISE SHALL BE AMENDED AND SEEDED TO MATCH EXISTING GRADE AND CONDITIONS. AMENDMENT SHALL BE COMPLETE, INCLUDING BUT NOT LIMITED TO THE CONTRACTOR SHALL SUBMIT A LOAM SOIL SAMPLE FOR A ROUTINE, ORGANIC, SALTS, AND NITRATE SOIL TEST. UPON THE RESULTS OF THIS TEST, THE SITE CONTRACTOR SHALL AMEND THE LOAM AS RECOMMENDED, SEND THE RESULTS TO THE PROJECT ARCHITECT FOR REVIEW AND APPROVAL. TESTING LABORATORY, WEST EXPERIMENT STATION, 682 NORTH PLEASANT ST., UNIVERSITY OF MASSACHUSETTS, AMHERST, MA 01003.
13. ALL DISTURBED AREAS NOT SHOWN OTHERWISE SHALL BE AMENDED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS. AMENDMENT SHALL BE COMPLETE, INCLUDING BUT NOT LIMITED TO THE CONTRACTOR SHALL SUBMIT A LOAM SOIL SAMPLE FOR A ROUTINE, ORGANIC, SALTS, AND NITRATE SOIL TEST. UPON THE RESULTS OF THIS TEST, THE SITE CONTRACTOR SHALL AMEND THE LOAM AS RECOMMENDED, SEND THE RESULTS TO THE PROJECT ARCHITECT FOR REVIEW AND APPROVAL. TESTING LABORATORY, WEST EXPERIMENT STATION, 682 NORTH PLEASANT ST., UNIVERSITY OF MASSACHUSETTS, AMHERST, MA 01003.
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15. 30% STALLION PERENNIAL RYEGRASS, OR APPROVED EQUAL PLANT AT A RATE OF 1 LB. PER 900 SQUARE FEET.
16. LAWN AND SEED SOD AREAS SHALL NOT BE DEEMED ACCEPTABLE UNTIL IN EXCESS OF 90% OF EACH AREA, INDEPENDENTLY, IS COVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEEDING OF THE LAWN AND SEED SOD AREAS. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING AT THE MINIMUM 1" OF WATER A WEEK UNTIL THE SEEDED AREAS HAVE BEEN GRASSED. WITHIN THE SEEDING AREAS OCCUR IN SMALL DOSES, THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY WEEDS (ORAB GRASS) WITHIN THE SEEDING AREAS UNTIL THE LAWN HAS BEEN ESTABLISHED.
17. THE HYDRO SEED SLURRY SHALL BE A WOOD BASED BONDED FIBER MATRIX. THE APPLICATION RATE SHALL BE 3,000-4,000LB. PER ACRE SPREAD IN AT LEAST TWO DIRECTIONS. DO NOT APPLY HYDRO SEED SLURRY IF RAIN IS EXPECTED WITHIN 12 HOURS, AND WHEN


TREES / SHRUBS		QTY	COMMON NAME	SIZE
BC	4	River Birch Clump	10' B&B	
EM	12	Bowwood "Green Gem"	18" B&B	
CA	5	Spice Bush "Ruby Spice"	30" B&B	
CS	5	Red Twig Dogwood "Arctic Sun"	18"-24" B&B At Building	
	3	Red Twig Dogwood "Arctic Sun"	48" B&B at Septic	
HP	2	Hydrangea "Endless Summer"	36" B&B	
IF	4	Blue Princess Holly	24"-30" B&B	
IF	4	Blue Princess Holly	24"-30" B&B	
JS	4	Upright Juniper	36"-48" B&B	
MU	2	Crabapple "Donald Wyman"	2 1/2'-3' B&B	
RH	3	Rhododendron "Ken Janek"	24" B&B	
SB	8	Spirea "Gold Flame"	24"-30" B&B	
ST	6	Upright Holly "Suevit"	40"-48" B&B	
SV	6	Redwing "Blaze of Glory"	48" B&B	
TC	7	"Gracilis" Hinoki Cypress	72" B&B	
TH	20	Arbovitae "Smogger"	48" B&B	
PERENNIALS				
AS	20	Asiatic Assorted	#1 pot	
LI	10	Ligularia Bigleaf	#1 pot	
MP	32	Sedum "Autumn Purple" "ornamental grass"	#1 pot	
MR	20	Miscanthus "Mr Goodbye"	#3 pot	
PA	24	Assorted Perennials	#1 pot	

ANNUALS

Spring annuals
Fall Mums and Kale
Fall bulbs for early spring color

GROUND COVER

Lawn, Hydroseeded
Wildflower Seed Mix - New England Showy Wildflower Seed Mix
Application Rate: 1 lb per 1,900 s.f.
New England Wetland Plants, Inc.
820 West Street
Amherst, Ma 01002
Ph. 413-548-9000



 10-6-14

REVISIONS

5-29-14 ORIGINAL ENDORSEMENT

8-22-14 SHEET ADDED FOR PB SUBMITTAL

10-6-14 REVISIONS PER PB COMMENTS

SITE PLAN OF LAND IN
BOLTON, MASSACHUSETTS
PREPARED FOR
WACHUSETT REALTY, LLC

SCALE: 1" = 20'

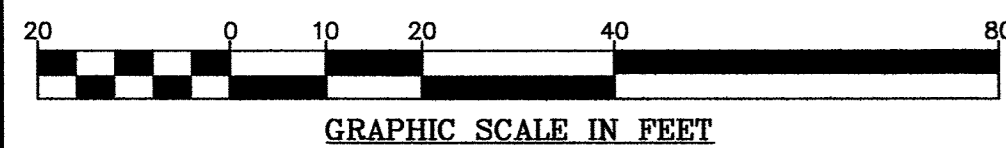
MAY, 2014

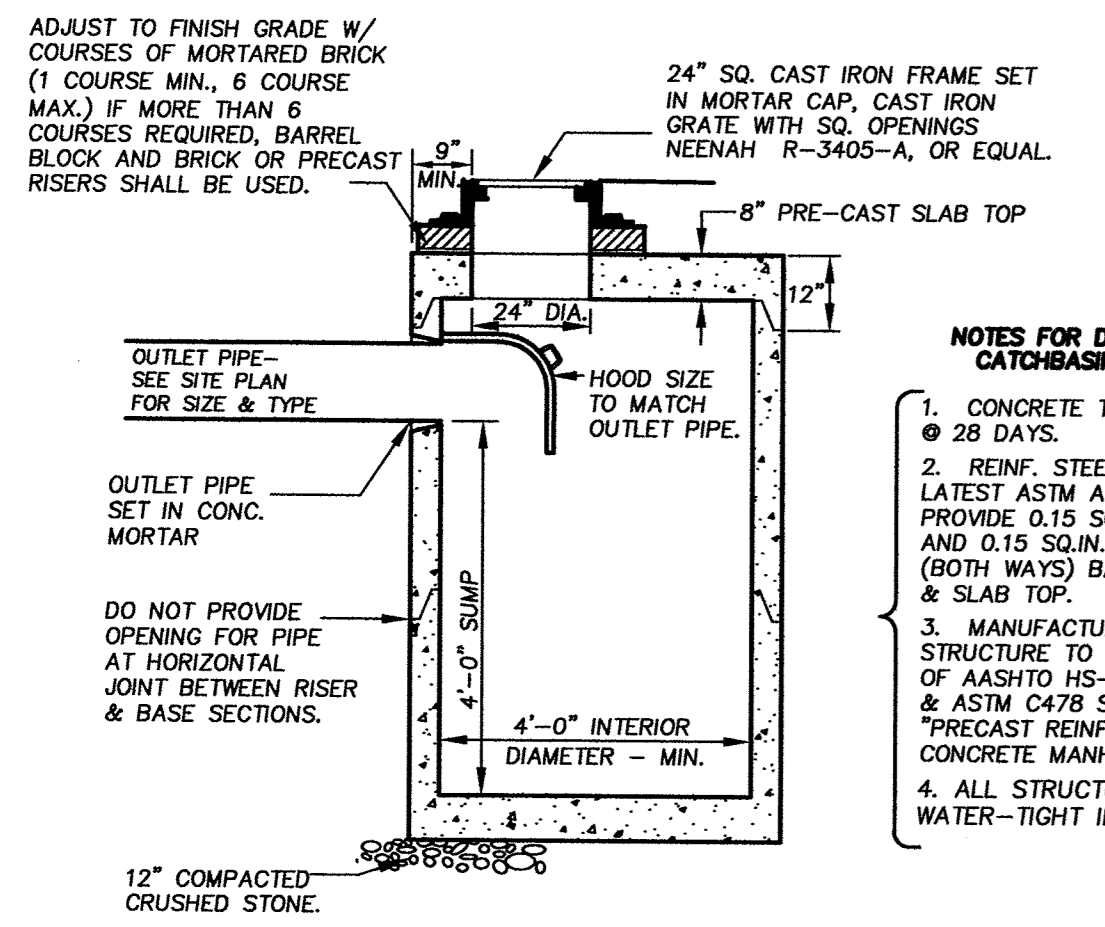
DAVID E. ROSS ASSOCIATES, INC.

CIVIL ENGINEERS — LAND SURVEYORS — ENVIRONMENTAL CONSULTANTS

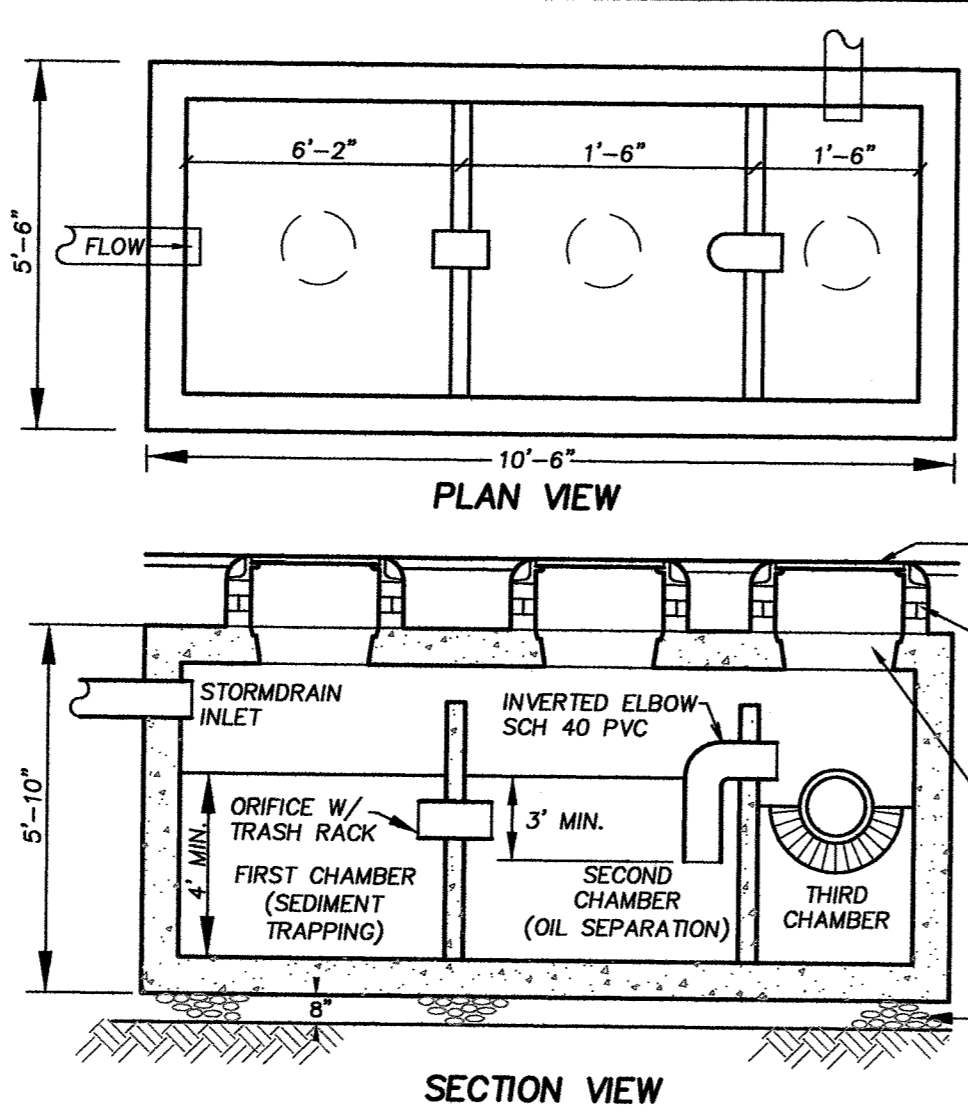
111 FITCHBURG ROAD, P.O. BOX 368, AYER, MASS. 01432-0368
978-772-6232 368-1065 448-3916 FAX 978-772-6258

JOB NO. **29227** SHEET **4** OF **6** PLAN NO. **L-1237**



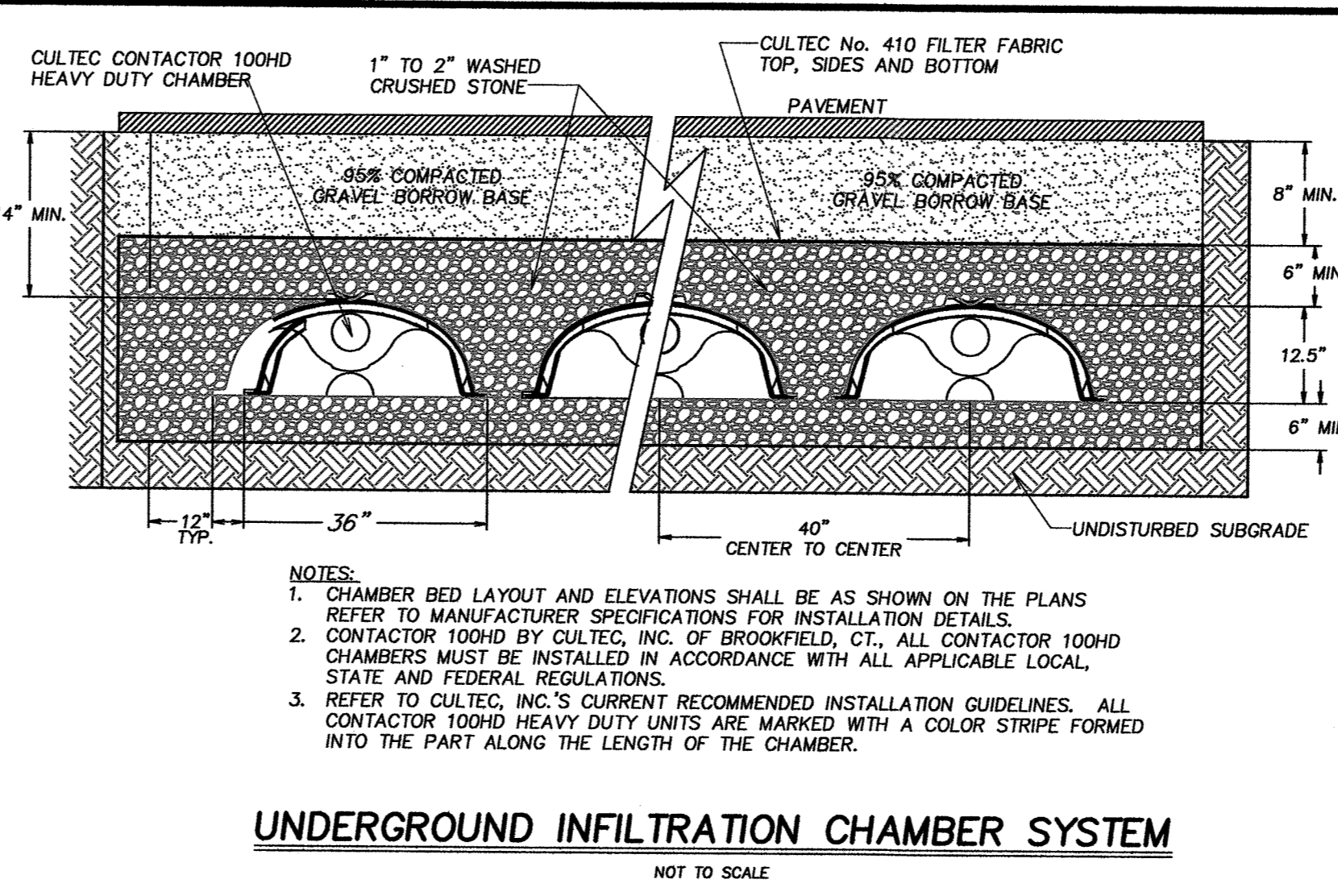


PRE-CAST FLAT TOP CATCHBASIN
NOT TO SCALE

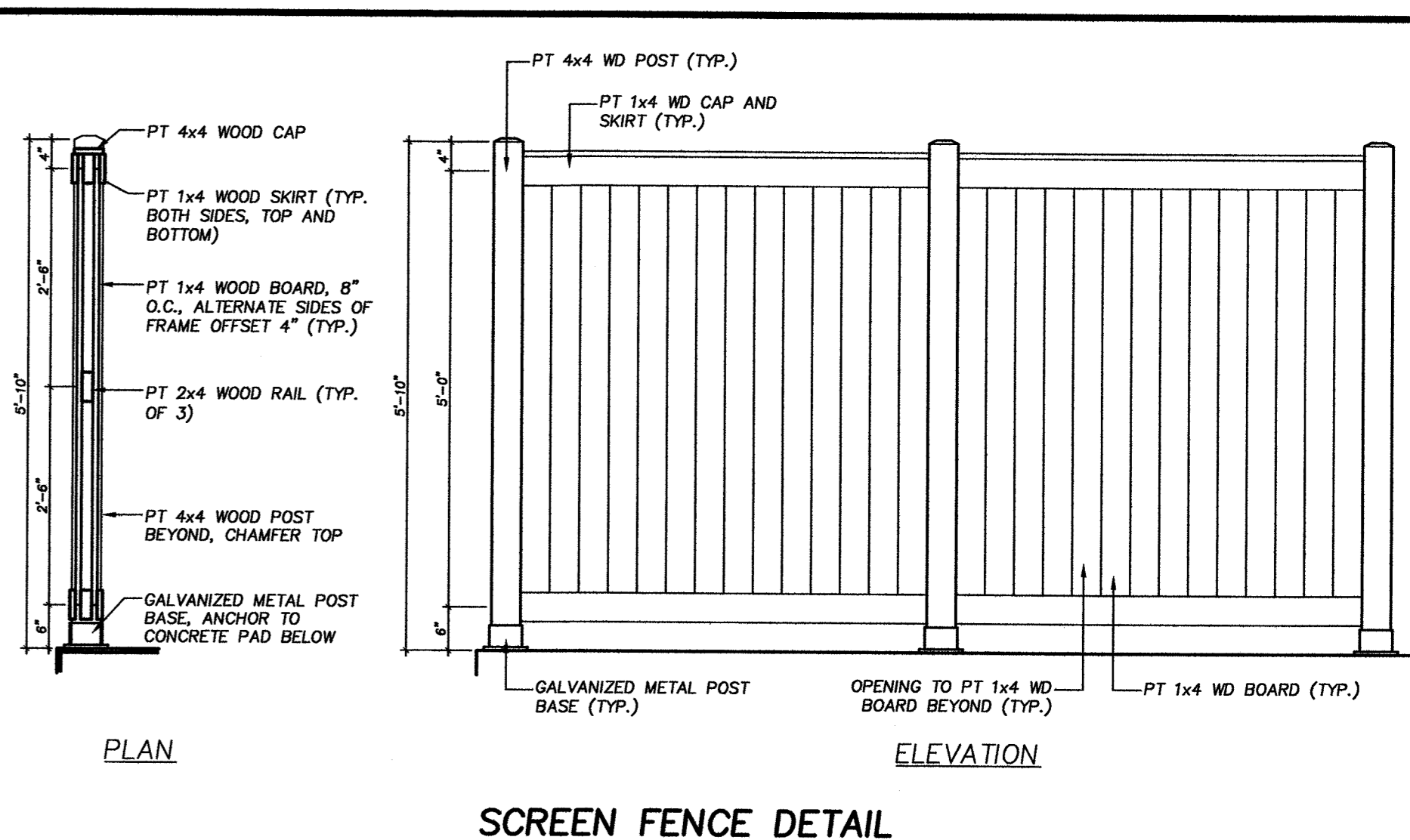


WATER QUALITY INLET
NOT TO SCALE

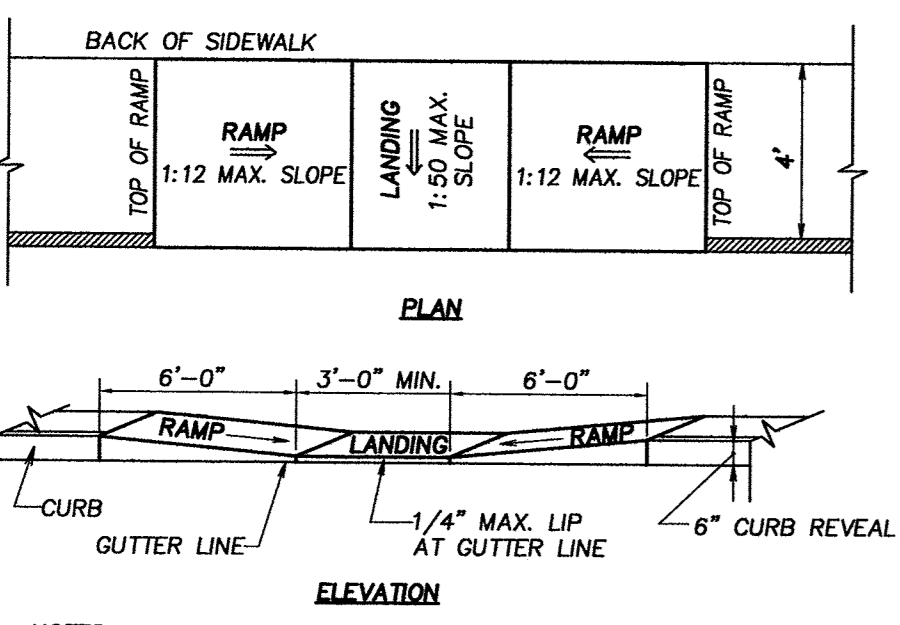
GENERAL NOTES:
1. 500 GAL. PRECAST STEEL REINFORCED CONCRETE CHAMBER CAPABLE OF DIRECT H-20 LOADING W/INTERIOR BAFFLE(S). SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. MORTAR ALL JOINTS & CONNECTIONS WATER-TIGHT. PROVIDE FLEXIBLE PIPE JOINT WITHIN 4".
3. ORIFICE, INVERT ELBOW AND OUTLET PIPES TO MATCH INLET DIAMETER. SEE SCHEDULE FOR SIZE & INVERT ELEVATIONS.
4. INSTALL CAST-IN HIGH DENSITY POLYPROPYLENE STEPS 18" O.C., MIN.
5. HEAVY DUTY FRAME AND COVER (TYPICAL FOR 3) SET TO EXISTING GRADE.
6. MIN. 2 COURSES BRICK W/ MORTAR. PRECAST RISER RINGS MAY BE SUBSTITUTED USE PORTLAND CEMENT MORTAR. 1" DIA. DROP FRONT TYPE M.H. STEPS.
7. MIN. OPENING 24" DIA.
8. 8" MIN. COMPACTED GRADED GRAVEL BASE - 2 LIFTS



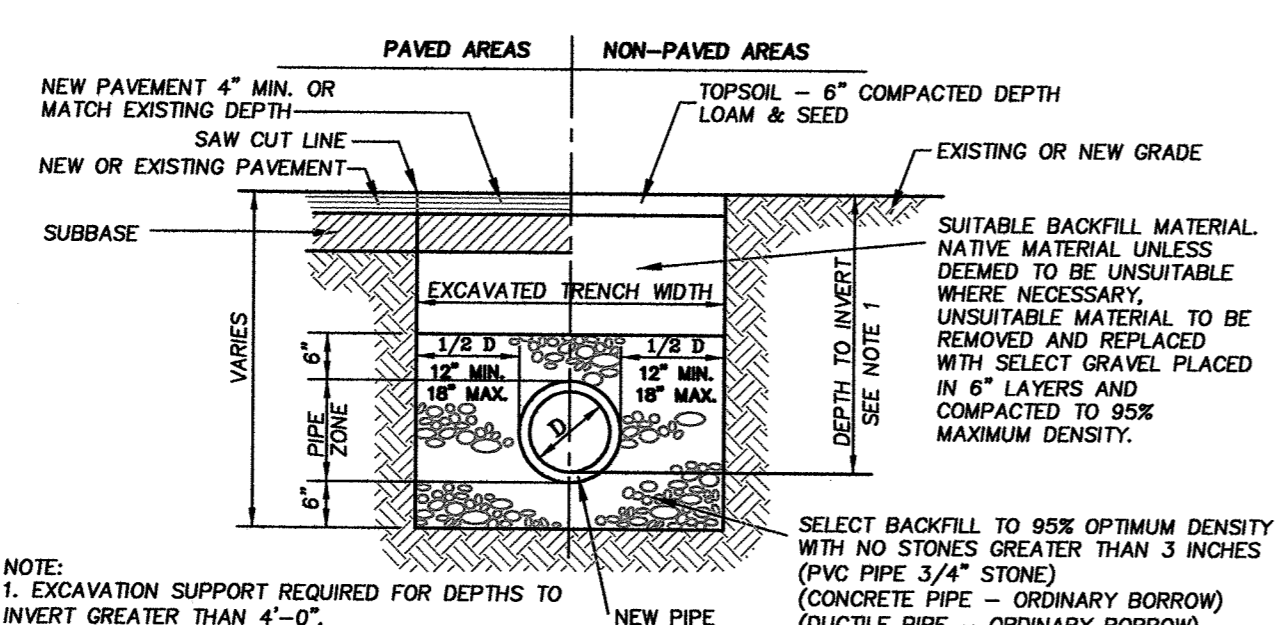
UNDERGROUND INFILTRATION CHAMBER SYSTEM
NOT TO SCALE



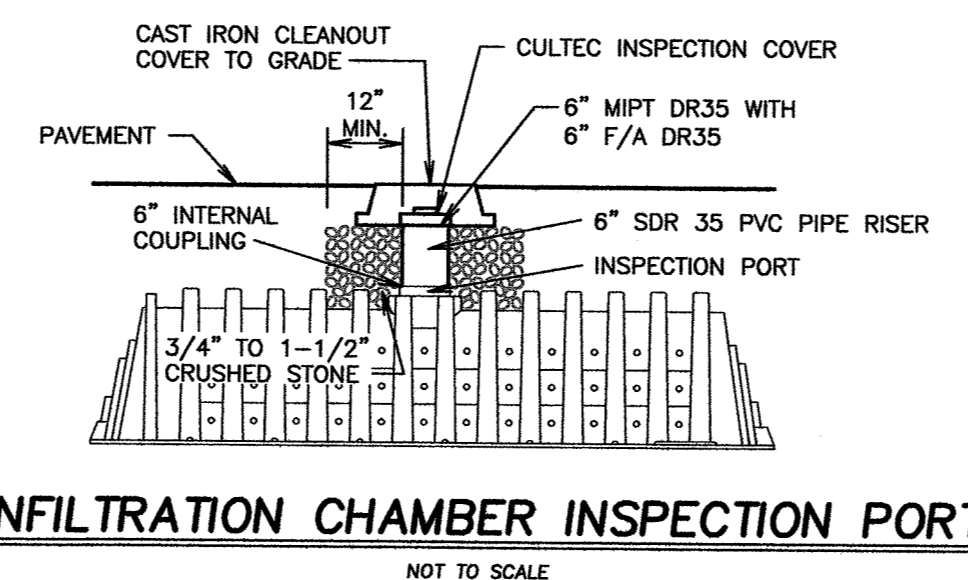
SCREEN FENCE DETAIL
NOT TO SCALE



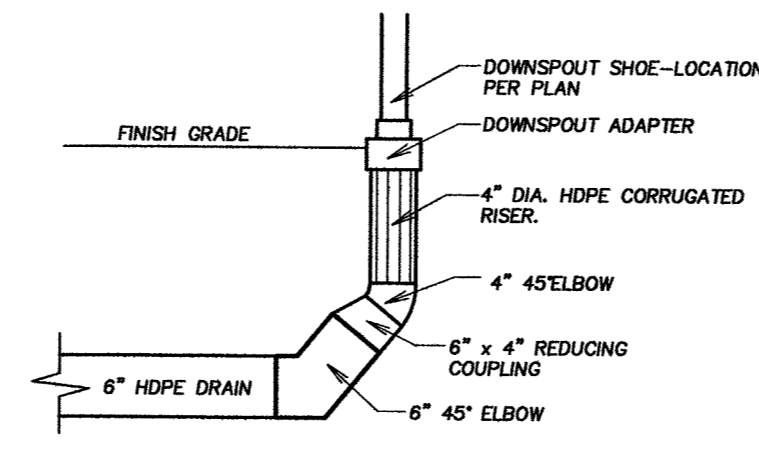
ACCESSIBLE CURB CUT DETAIL
NOT TO SCALE



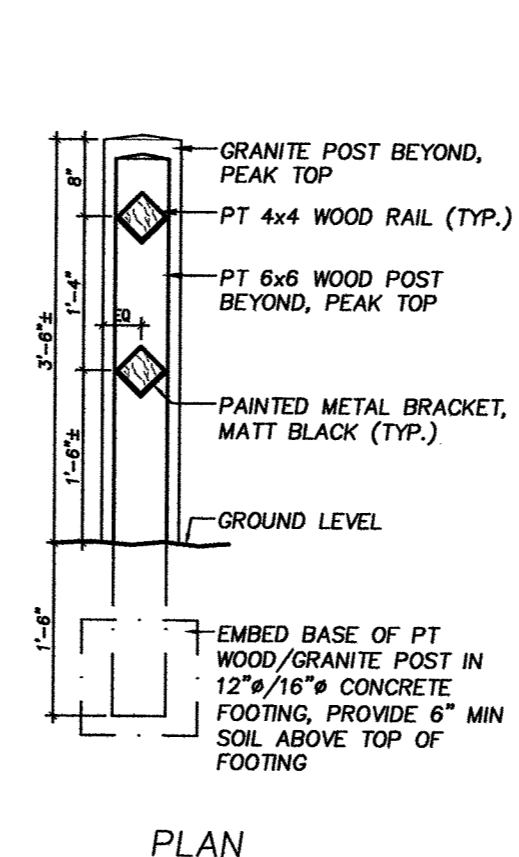
STORM DRAIN & SEWER MAIN EXCAVATION & BACKFILL LIMITS
NOT TO SCALE



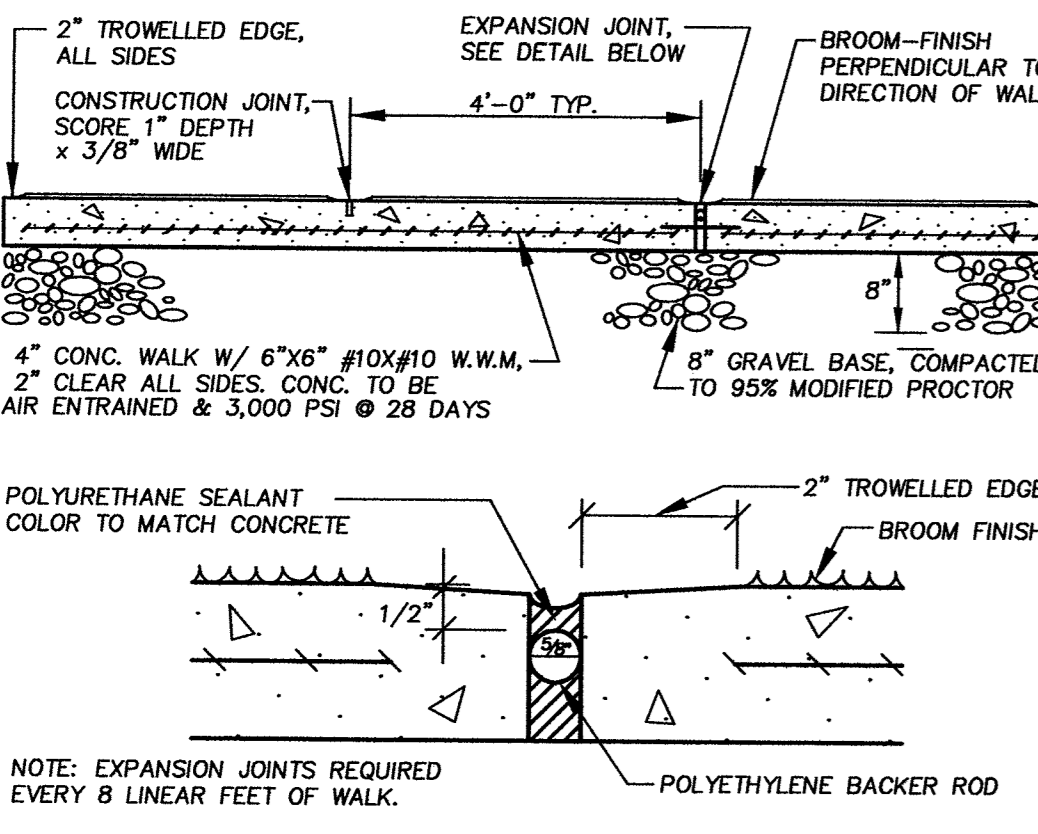
INFILTRATION CHAMBER INSPECTION PORT
NOT TO SCALE



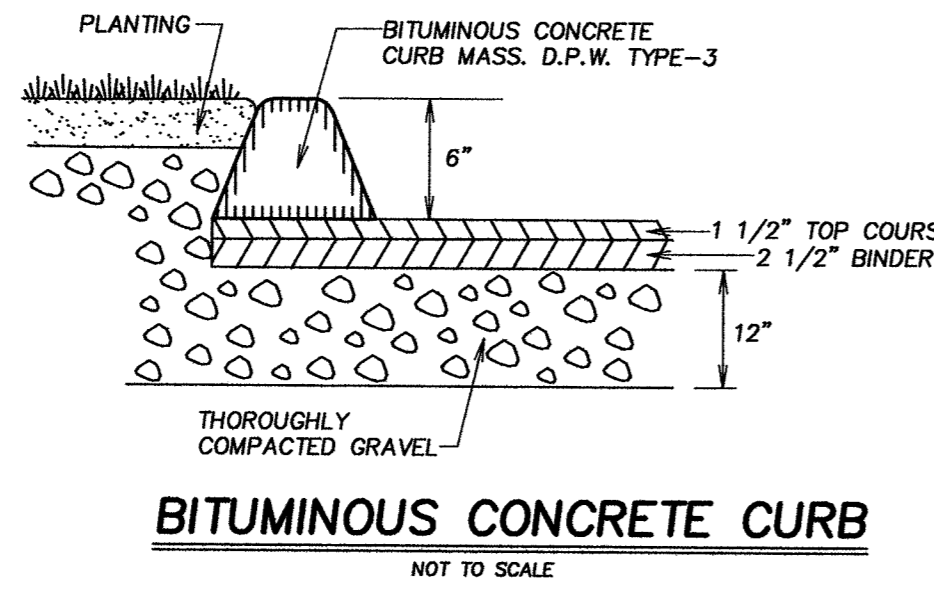
DOWNSPOUT SHOE CONNECTION
NOT TO SCALE



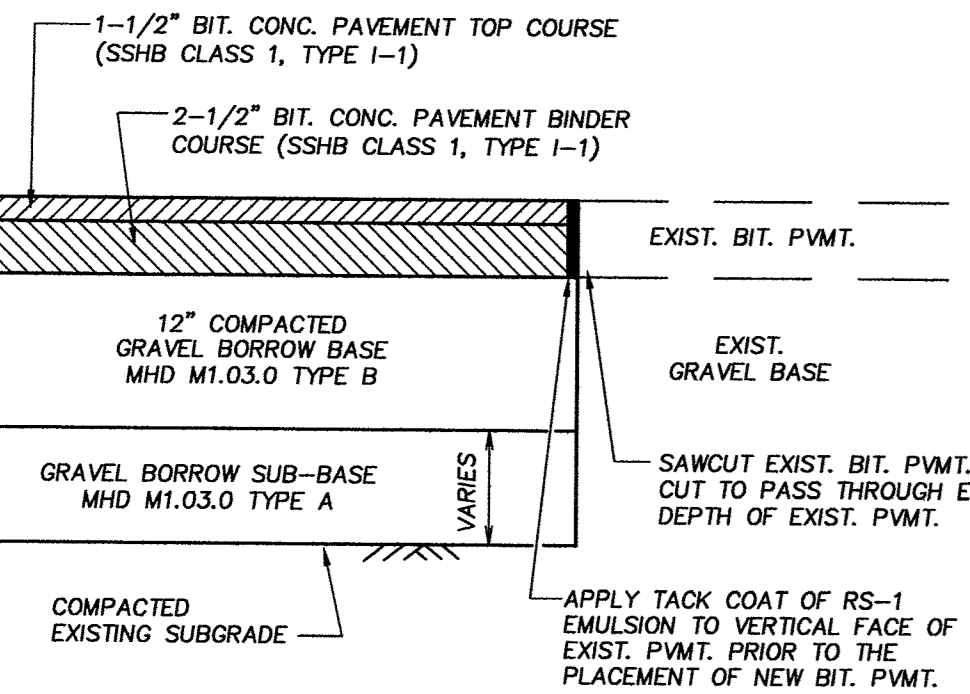
POST AND RAIL FENCE DETAIL
NOT TO SCALE



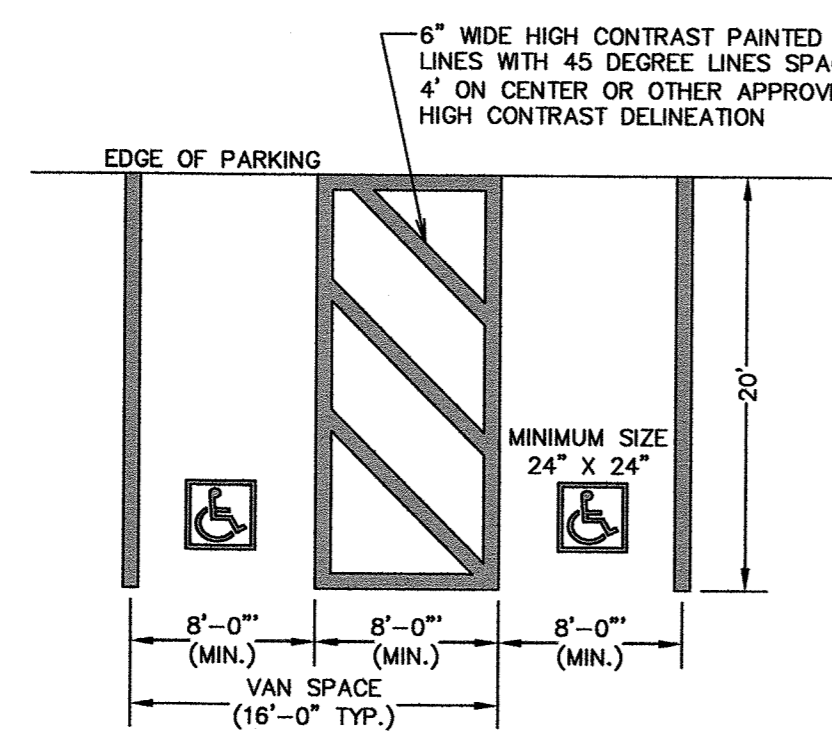
CONCRETE WALK & PADS
NOT TO SCALE



BITUMINOUS CONCRETE CURB
NOT TO SCALE



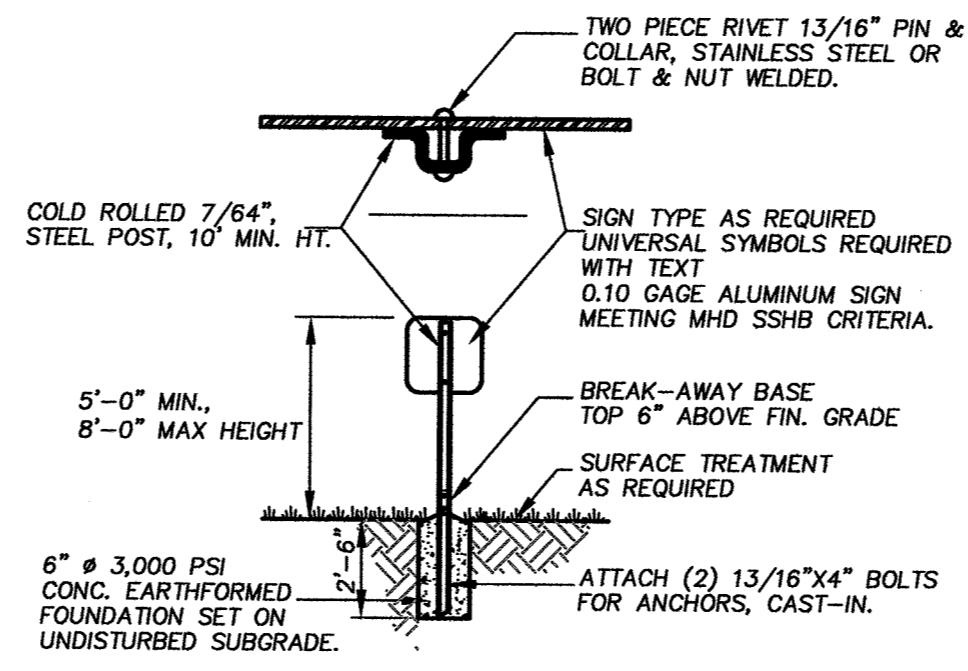
TYPICAL BIT. CONC. PAVEMENT DETAIL
NOT TO SCALE



ACCESSIBLE PARKING SPACES DETAIL
NOT TO SCALE

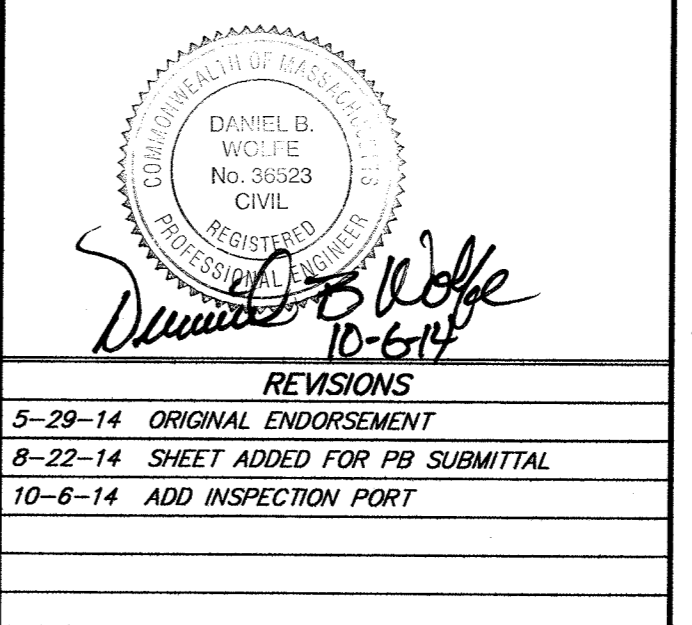
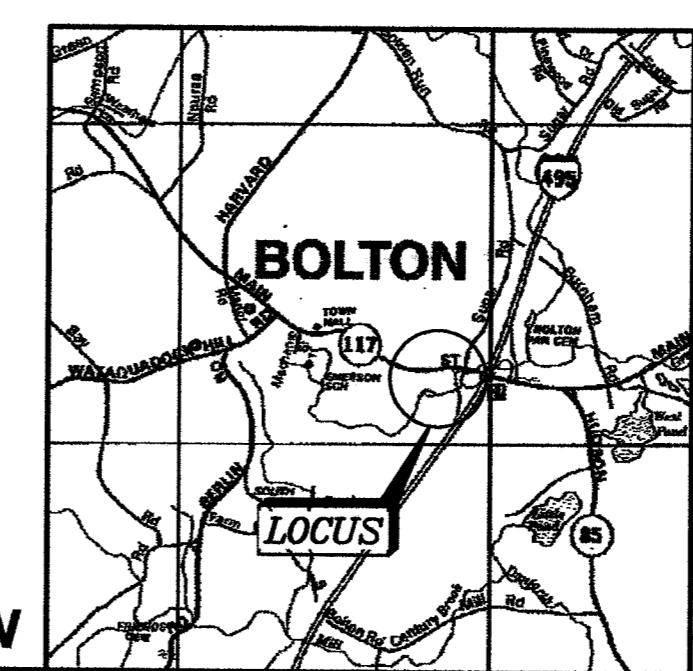
NOTES:
1. PARKING SPACES SHALL MEET THE REQUIREMENTS OF THE CODE OF MASSACHUSETTS REGULATIONS ARCHITECTURAL ACCESS BOARD - 521CMR.
2. PARKING SPACES AND ACCESS ISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
3. TWO ACCESSIBLE SPACES MAY SHARE A COMMON ACCESS ISLE.
4. A SIGN, IDENTIFYING ACCESSIBLE PARKING SPACES AS RESERVED, SHALL BE LOCATED AT THE HEAD OF EACH SPACE AND NO MORE THAN 10'-0" AWAY. THE SIGN SHALL BE AS SPECIFIED BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), R2B-31 OR APPROVED EQUAL. SUCH SIGNS SHALL BE PERMANENTLY LOCATED AT A HEIGHT OF NOT LESS THAN 5', NOR MORE THAN 8' TO THE TOP OF THE SIGN.
5. SIGNS AT THE HEAD OF VAN ACCESSIBLE SPACES SHALL INCLUDE THE WORDS: VAN ACCESSIBLE.
6. ALL STALLS TO BE PAINTED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. BLUE BACKGROUND, WHITE SYMBOL, WHITE BORDER.

NOTE:
1. SIGN TYPES REQUIRED (SEE SITE LAYOUT PLAN FOR LOCATIONS):
A - "STOP"
B - "DO NOT ENTER"
C - "ENTER"
D - "EXIT ONLY"
E - HANDICAP PARKING W/ VAN ACCESSIBLE



TYPICAL SITE SIGN
NOT TO SCALE

SITE PLAN REVIEW SUBMITTAL - NOT FOR CONSTRUCTION



CONSTRUCTION DETAILS
562 MAIN STREET - BOLTON

SITE PLAN OF LAND IN
BOLTON, MASSACHUSETTS
PREPARED FOR
WACHUSETT REALTY, LLC

SCALE: 1" = 20' MAY, 2014

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CIVIL ENGINEERS - LAND SURVEYORS - ENVIRONMENTAL CONSULTANTS
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JOB NO. 29227 SHEET 5 OF 6 PLAN NO. L-12371

STORM WATER POLLUTION PREVENTION
AND EROSION & SEDIMENTATION CONTROL PLAN

1.0. EROSION CONTROL MEASURES:

- 1.01. THE CONTRACTOR AND PROPERTY OWNER ARE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED. THIS PLAN SHALL BE ADAPTED TO FIT THE CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS AND ANY CONDITIONS ISSUED BY PERMITTING AUTHORITIES.
- 1.02. THE CONTRACTOR SHALL LIMIT THE EXTENT OF DISTURBANCE AND STABILIZE SURFACES AS SOON AS POSSIBLE. THE CONTRACTOR SHALL LIMIT THE SIZE AND LENGTH OF THE TRIBUTARY DRAINAGE AREA TO THE WORK SITE AND DRAINAGE STRUCTURES.
- 1.03. THE EXISTING SOIL CONDITIONS PROVIDE RUNOFF FROM AREAS WITH EROSION POTENTIAL. THE CONTRACTOR MUST ANTICIPATE HEAVY RUNOFF DURING ANY SPRING CONSTRUCTION OR DURING AND AFTER ANY INCLEMENT WEATHER.
- 1.04. THE CONTRACTOR MAY NEED TO CONSTRUCT TEMPORARY DIVERSION SWALES AND SETTLING BASINS IN AREAS OF FUTURE CONSTRUCTION.
- 1.05. ALL DISTURBED SURFACES SHALL BE STABILIZED A MINIMUM OF 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE HAS CEASED OR IS TEMPORARILY HALTED UNLESS ADDITIONAL CONSTRUCTION IS INTENDED TO BE INITIATED WITHIN 21 DAYS.
- 1.06. THE CONTRACTOR SHALL REGULARLY INSPECT, MAINTAIN AND REPAIR ALL EROSION CONTROL DEVICES ON-SITE.

- 1.07. AT NO TIME SHALL SILT--LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (OFF--SITE AREAS, WETLANDS, AND DRAINAGE SYSTEMS). ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS, FILTERED CATCHBASIN INLETS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

2.0. GENERAL CONSTRUCTION REQUIREMENTS:

- 2.01. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE ON PAVED AREAS AND SHALL NOT BE CONDUCTED IN PROXIMITY TO CATCHBASINS & LAWN AREAS.
- 2.02. NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS, IS ALLOWED. STUMPS SHALL BE DISPOSED OF OFF--SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 2.03. NO MATERIALS SHALL BE DISPOSED OF INTO THE EXISTING OR PROPOSED DRAINAGE SYSTEMS. ALL CONTRACTORS, INCLUDING: CONCRETE SUPPLIERS, PAINTERS AND PLASTERERS, SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH--WATER WILL DRAIN DIRECTLY TO DRAINAGE SYSTEMS.
- 2.04. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF--SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS, AS NEEDED.
- 2.05. ALL SITE WORK SHALL BE STABILIZED AT THE END OF THE WORK DAY OR PRIOR TO ANTICIPATED CONDITIONS WHICH COULD CAUSE EROSION OR AIR--BORNE SEDIMENT PROBLEMS (I.E., RAIN, HIGH WINDS, EXPOSED SURFACES OR STEEP SLOPES).
- 2.06. SITE OPERATIONS IN THE AREA OF DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MAINTAIN OR CREATE GRADES AND SURFACES WHICH SLOPE AWAY FROM STREETS AND ABUTTING PROPERTIES.
- 2.07. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THAT STREETS AND ABUTTING PROPERTIES ARE KEPT CLEAR OF CONSTRUCTION RELATED DEBRIS. ALL MATERIALS TRACKED ONTO SAID STREETS OR PROPERTIES SHALL BE PROMPTLY REMOVED.

3.0. PRE--CONSTRUCTION:

- 3.01. AN EROSION CONTROL BARRIER (SILT FENCE, HAY BALE DIKE OR SILTATION BARRIER) SHALL BE INSTALLED TO LIMIT THE AREA OF DISTURBANCE. THESE BARRIERS SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED.
- 3.02. TEMPORARY STONE ACCESS AREAS SHALL BE ESTABLISHED AT THE CONSTRUCTION DRIVEWAY ENTRANCES TO COLLECT ENTRAPPED SOILS AND SEDIMENT FROM CONSTRUCTION AND SERVICE VEHICLES ENTERING AND LEAVING THE SITE. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE IS SILT LADEN. THE CONSTRUCTION ENTRANCES SHALL BE LEFT IN PLACE UNTIL THE PERMANENT DRIVEWAY SURFACE IS INSTALLED.
- 3.03. ONLY THE MINIMUM AREA SHALL BE DISTURBED FOR ALL CONSTRUCTION. ALL SPECIMEN TREES ARE TO BE SAVED UNLESS OTHERWISE NOTED. THE EXACT LIMITS OF CLEARING SHOULD BE MARKED IN ADVANCE.
- 3.04. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA WITHIN THE AREA OF DISTURBANCE, FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS.
- 3.05. CONSTRUCTION MATERIALS SHALL BE PILED IN SUCH A MANNER AS NOT TO CONCENTRATE RUNOFF.
- 3.06. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON-SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, HAYBALES, SILT FENCE AND CRUSHED STONE.
- 3.07. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN OR IN CONDITIONS ISSUED BY PERMITTING AUTHORITIES.

4.0. PRELIMINARY SITE WORK:

- 4.01. MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWNSLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS. RUNOFF SHALL BE DIRECTED AWAY FROM STOCKPILES.
- 4.02. STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE, IN AREAS OF MINIMAL IMPACT.
- 4.03. NO SOIL OR LOAM SHALL LEAVE THE SITE EXCEPT IN ACCORDANCE WITH THE TOWN OF BOLTON REQUIREMENTS.
- 4.04. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL HAYBALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.
- 4.05. SIDE SLOPES SHALL NOT EXCEED A SLOPE OF TWO--FEET HORIZONTAL TO ONE--FOOT VERTICAL UNLESS STABILIZED WITH RIP RAP GREATER THAN 12 INCHES IN DIAMETER.

5.0. DRAINAGE SYSTEM:

- 5.01. THE DRAINAGE SYSTEM SHALL BE INSTALLED FROM THE DOWNSTREAM END UP. SEDIMENT SHALL NOT BE ALLOWED TO ENTER THE SYSTEM. WATER SHALL NOT BE ALLOWED TO ENTER PIPES FROM UNSTABILIZED SURFACES.
- 5.02. SILT FENCES SHALL BE INSTALLED AT THE OUTFALLS OF ALL TEMPORARY BASINS AND SWALES. THEY SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
- 5.03. UNTIL TRIBUTARY AREAS ARE STABILIZED, ARMORED DIKES AND/OR FILTERED CATCHBASINS INLETS SHALL COVER CATCHBASINS TO MINIMIZE SILTATION IN THE CATCHBASINS. IF INTENSE RAINFALL (SUCH AS A HURRICANE) IS PREDICTED BEFORE ALL TRIBUTARY AREAS ARE STABILIZED, THE ARMORED DIKES SHALL BE REINFORCED FOR THE DURATION OF THE STORM. DOWNSTREAM AREAS SHALL BE INSPECTED AND ANY SEDIMENTS REMOVED AT THE END OF THE STORM.
- 5.04. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE. THE ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD.
- 5.05. IF UNSTABLE AREAS ARE ENCOUNTERED DUE TO NATURAL SPRINGS OR GROUNDWATER BREAKOUT, INTERCEPTOR DRAINS SHALL BE INSTALLED TO DIRECT THE RUNOFF INTO THE DRAINAGE SYSTEM.
- 5.06. ALL SWALES MUST BE MAINTAINED AND KEPT FREE OF OBSTRUCTIONS, TO ALLOW UNIMPEDED FLOW.
- 5.07. IMMEDIATELY FOLLOWING PAYING, THE SHOULDERS SHALL BE GRADED, LOAMED AND SEEDED AND MULCHED IF NECESSARY. ALL SURFACES SHOULD BE RAPIDLY AND THOROUGHLY STABILIZED TO THEIR FINAL CONDITION TO AVOID ENTRY OF SEDIMENTS INTO THE DRAINAGE SYSTEM.
- 5.08. AT THE COMPLETION OF WORK, THE DRAINAGE SYSTEM SHALL BE OPENED AND INSPECTED. ANY FOREIGN MATERIAL PRESENT SHALL BE REMOVED.

6.0. UTILITIES:

- 6.01. CARE SHALL BE TAKEN TO ASSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS THE STREET OR OTHER OFF--SITE AREAS.
- 6.02. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

DRAINAGE SYSTEM OPERATIONS & MAINTENANCE PLAN

1.0 STORMWATER COLLECTION SYSTEM:

1.01 THE STORMWATER COLLECTION SYSTEM SERVING THIS SITE IS INTENDED TO BOTH COLLECT STORMWATER RUNOFF AND TO PROVIDE TREATMENT OF THE STORMWATER. THE STORMWATER COLLECTION SYSTEM HAS BEEN DESIGNED ON THE 100--YEAR STORM EVENT. THE PROPOSED STORMWATER COLLECTION SYSTEM COLLECTS RUNOFF GENERATED FROM THE SITE THROUGH THE USE OF CATCH BASINS, OIL/GRIT SEPARATORS, AND SUBSURFACE INFILTRATION SYSTEMS. RUNOFF FROM IMPERVIOUS SURFACES IS DIRECTED TO UNDERGROUND INFILTRATION CHAMBER SYSTEMS. THIS PROMOTES IMMEDIATE TREATMENT, MORE EVENLY DISTRIBUTED INFILTRATION, AND AN AESTHETICALLY MORE ATTRACTIVE SITE. EACH PROPOSED CATCHBASIN IS EQUIPPED WITH A FOUR (4') FOOT DEEP SUMP TO COLLECT SEDIMENTS AND DEBRIS, AND AN OIL/GAS TRAP TO PREVENT THE INTRUSION OF HYDROCARBONS AND OTHER FLOATING MATERIALS FROM ENTERING THE DRAINAGE SYSTEM. ADDITIONAL TREATMENT IS PROVIDED BY A THREE COMPARTMENT WATER QUALITY INLET (OIL/GRIT SEPARATOR). WHEN THESE CONTROL MECHANISMS ARE FUNCTIONING PROPERLY, THEY PROVIDE FOR A REDUCTION OF CONTAMINANTS AND DEBRIS ENTERING THE STORMWATER COLLECTION AND RECHARGE SYSTEMS.

1.02 STORMWATER RUNOFF IS TO BE DIRECTED TO THE PROPOSED UNDERGROUND INFILTRATION CHAMBER SYSTEMS THAT WILL COLLECT, RECHARGE AND ATTENUATE GENERATED RUNOFF.

1.03 THE ABOVE--DESCRIBED SYSTEMS RELY UPON PROPER MONITORING, OPERATIONS AND MAINTENANCE TO FUNCTION AS DESIGNED AND INTENDED. THE ACTIVITIES DESCRIBED BELOW ARE TO BE IMPLEMENTED AT THE BEGINNING, DURING, AND AFTER CONSTRUCTION OF THE PROJECT AS APPROPRIATE.

2.0. MONITORING AND OPERATION:

THE DRAINAGE SYSTEM IS REQUIRED TO BE MONITORED BY THE OWNER, WHO SHALL DIRECT AN INDIVIDUAL ENTITY TO ACT AS THE PROJECT SITE MANAGER.

2.01 THE CATCHBASINS AND OIL/GRIT SEPARATORS SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE THAT THEY ARE WATERTIGHT (HOLDING WATER), THAT THEY HAVE ADEQUATE SUMP CAPACITY, THAT OIL/GAS TRAPS ARE IN PLACE, AND THAT GRATES AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE AND ARE DRAINING FREELY.

2.02 LONG TERM SNOW STORAGE WILL BE AS SHOWN. ANY NECESSARY REMOVAL AND DISPOSAL OF SNOW FROM THE FACILITY SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS.

2.03 THE CATCH BASINS, OIL/GRIT SEPARATORS, AND UNDERGROUND INFILTRATION CHAMBER SYSTEMS SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE THAT NO DEBRIS IS OBSTRUCTING, THAT ALL INLETS ARE FREE--FLOWING, AND THAT NO DAMAGE HAS OCCURRED AS PART OF SITE MAINTENANCE OR ACTIVITIES.

3.0 OPERATIONS:

3.01 ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER. THERE SHALL BE NO OUTDOOR STORAGE OF HAZARDOUS MATERIAL, PETROLEUM PRODUCTS, FERTILIZERS, PESTICIDES, OR DE--IONG AGENTS.

3.02 PETROLEUM PRODUCTS:

3.02.01 ONSITE VEHICLES AND PARKING AREAS SHALL BE REGULARLY MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT LEAKAGE.

3.02.02 PETROLEUM PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

3.03 FERTILIZERS:

3.03.01 FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER.

3.03.02 THE CONTENTS OF ANY UNUSED FERTILIZER SHALL BE TRANSFERRED TO A CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE.

3.03.03 SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY LAW.

3.03.04 THE USE OF SODIUM CHLORIDE FOR ICE CONTROL SHALL BE MINIMIZED CONSISTENT WITH PUBLIC HIGHWAY SAFETY REQUIREMENTS.

4.0 MAINTENANCE:

THE APPLICANT SHALL COMPLY WITH THE FOLLOWING MAINTENANCE SCHEDULE:

4.01 MONTHLY INSPECTION FOR DAMAGED OR CLOGGED CATCH BASIN GRATES.

4.02 ANNUAL VISUAL INSPECTION OF UNDERGROUND INFILTRATION CHAMBER SYSTEM FOR SIGNS OF STANDING WATER OR SEDIMENTATION OF CRUSHED STONE BEDDING.

4.02 BIENNIAL SWEEPING OF THE PARKING LOTS.

4.03 BIENNIAL CLEANING OF THE CATCH BASINS AND OIL/GRIT SEPARATORS.

IN ADDITION:

4.04 PARKING AREAS, ACCESS WAYS AND GUTTERS SHALL BE SWEEP CLEAN OF DEBRIS AND ACCUMULATION ON A REGULAR BASIS. AT A MINIMUM, A SPRING AND FALL CLEANING SCHEDULE IS RECOMMENDED.

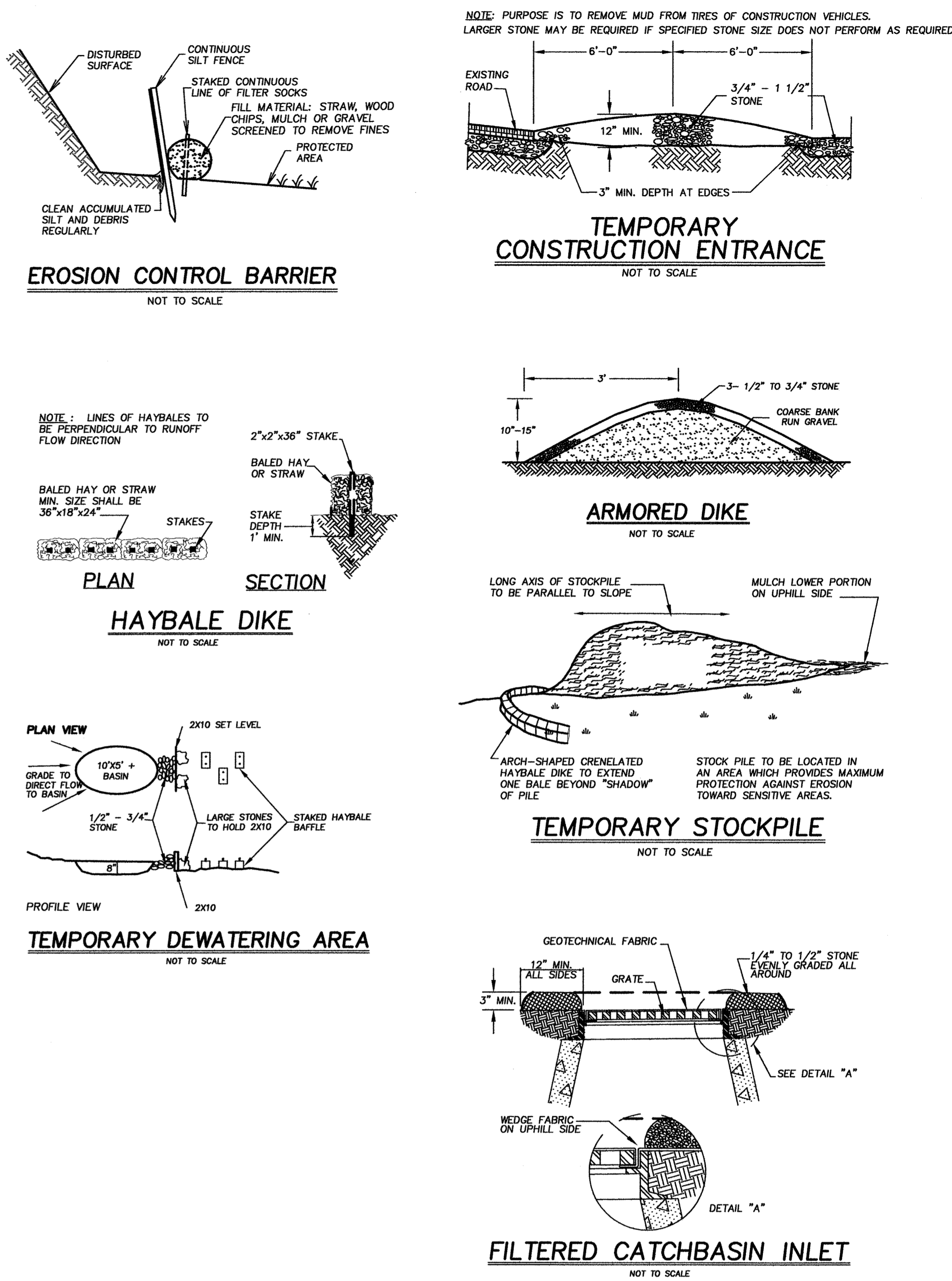
4.05 THE CATCHBASINS SHALL HAVE THE SUMPS CLEANED AT ANY TIME OF THE YEAR WHEN 2 FT. OR LESS SPACE EXISTS BELOW THE OUTLET INVERT, OR A MINIMUM OF ONCE PER YEAR, REGARDLESS OF SUMP ACCUMULATION. ALL DEBRIS FROM THE CLEANING SHALL BE DISPOSED OF OFFSITE AND IN A MANNER AS PRESCRIBED BY LAW.

4.06 ALL OIL & GREASE TRAPS SHALL BE CHECKED FOR PHYSICAL INTEGRITY AND WATERTIGHT SEALS IMMEDIATELY AFTER EACH CATCHBASIN INLET CLEANING.

4.07 OIL ABSORBING PILLOWS OR OTHER MEANS SHALL BE USED TO REMOVE ACCUMULATIONS OF HYDROCARBONS (OIL / GREASE) IN CATCHBASINS AND WATER QUALITY INLETS THAT ARE REGULARLY OBSERVED TO CONTAIN HYDROCARBONS WHICH DO NOT EVAPORATE BETWEEN INSPECTIONS.

4.08 ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY.

4.09 UNDERGROUND INFILTRATION SYSTEMS SHALL BE MONITORED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SUGGESTED "OPERATION AND MAINTENANCE GUIDELINES" WHICH IS MADE PART OF, AND ATTACHED TO, THE DOCUMENT ENTITLED "562 MAIN STREET -- BOLTON, MASSACHUSETTS, STORMWATER COLLECTION AND TREATMENT SYSTEM, OPERATION AND MAINTENANCE PLAN AUGUST, 2014."

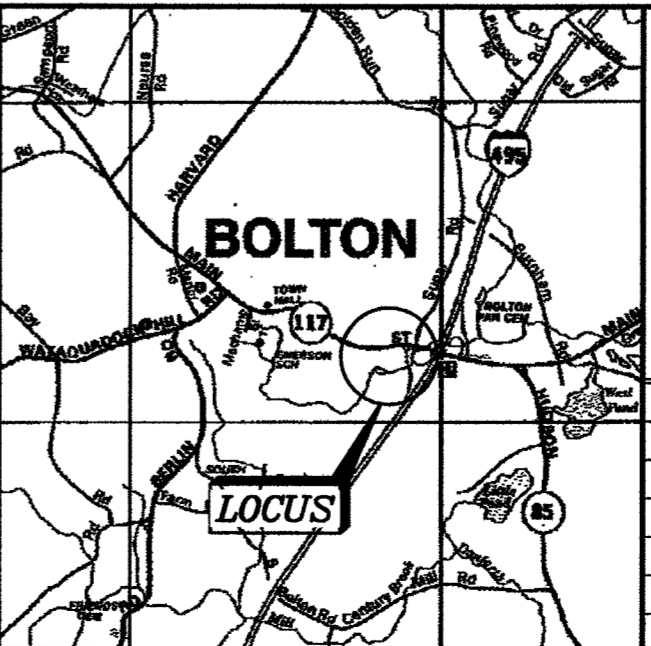


STORMWATER MANAGEMENT
SEDIMENTATION & EROSION CONTROL PLAN
562 MAIN STREET - BOLTON

SITE PLAN OF LAND IN
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REVISIONS
5--29--14 ORIGINAL ENDORSEMENT
8--22--14 SHEET ADDED FOR PB SUBMITTAL
10--6--14 REVISIONS PER PB COMMENTS

EXCAVATION SEQUENCE
NOT TO SCALE

FILL SEQUENCE
NOT TO SCALE

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