

APPROXIMATE LOCATION OF MAPPED NHESP PRIORITY HABITAT AREA 1670 & 1152 (TYP)

LOCATION OF FEMA FLOOD HAZARD AREA ZONE AE (EL=73) FLOOD INSURANCE RATE MAP NUMBER 25090C0393F, EFFECTIVE DATE JULY 3, 2012 (LIMIT OF BLSF)

TOWN OF LYNNFIELD CONSERVATION COMMISSION REAR SUMMER STREET ID: 0034 0000 2684

APPROXIMATE LOCATION OF MAPPED NHESP PRIORITY HABITAT AREA 1670 & 1152 (TYP)

LEGEND OF ABBREVIATIONS & SYMBOLS

EXISTING 2-FOOT CONTOUR	D12-98
EXISTING 10-FOOT CONTOUR	100
EXISTING SPOT ELEVATION	EP
EDGE OF PAVEMENT	BIT. BERM
BITUMINOUS BERM	VGC
VERTICAL GRANITE CURBING	STONE WALL
STONE WALL	OVERHEAD WIRE
HYDRANT	WATER GATE
GAS GATE	CATCH BASIN
DRAIN MANHOLE	UTILITY POLE
MANHOLE	LIGHT POLE
SIGN	WETLAND FLAG
FIRST FLOOR ELEVATION	DECIDUOUS TREE
CONIFEROUS TREE	TESTHOLE
PERCOLATION TEST	

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

CLERKS CERTIFICATION ON THE PLAN
DATE: _____

CLERK OF THE TOWN OF LYNNFIELD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

TREE LEGEND		TREE IDENTIFICATION	
TREE CODE	TREE SPECIES	TREE CODE	TREE IDENTIFICATION
C	CONIFER (SOFTWOOD)	C24	TREE DIAMETER AT BREAST HEIGHT (DBH) (INCHES)
			TREE LOCATION
D	DECIDUOUS (HARDWOOD)	C24	TREE TO BE REMOVED

- NOTES:
- WETLAND RESOURCES FLAGGED BY WILLIAMS AND SPARAGES, LLC ON APRIL 10, 2018.
 - WETLAND RESOURCE FLAGS AND FEMA ZONE AE (EL=73) LOCATED BY AN ACTUAL FIELD SURVEY PERFORMED BY WILLIAMS & SPARAGES, LLC ON APRIL 23, 2018.
 - TOPOGRAPHIC INFORMATION SHOWN IS FROM AN ACTUAL FIELD SURVEY BY WILLIAMS AND SPARAGES, LLC BETWEEN APRIL 24, 2018 AND MAY 11, 2018 UNLESS OTHERWISE NOTED.
 - ELEVATIONS SHOWN ARE ON NORTH AMERICAN VERTICAL DATUM OF 1988.
 - THIS PLAN IS BASED UPON AN ACTUAL FIELD SURVEY BY WILLIAMS AND SPARAGES BETWEEN APRIL 23, 2018 AND MAY 11, 2018.
 - ABUTTING STRUCTURES AND UNDERGROUND UTILITIES SHOWN COMPILED FROM INFORMATION PROVIDED BY THE TOWN OF LYNNFIELD WATER DEPARTMENT, THE BOARD OF HEALTH AND PLANS OF RECORD AT THE ESSEX SOUTH REGISTRY OF DEEDS.
 - EXISTING STRUCTURES ARE TO BE RAZED.
 - EXISTING UNDERGROUND UTILITIES TO BE CUT AND CAPPED.
 - ALL HARDWOOD TREES 24-INCHES (DBH) AND GREATER AND ALL SOFTWOOD TREES 36-INCHES (DBH) AND GREATER THROUGHOUT THE ENTIRE PROPERTY HAVE BEEN LOCATED AND SHOWN ON THE PLAN. TREES TO BE REMOVED ARE INDICATED AS SHOWN IN THE TREE IDENTIFICATION TABLE. ALL OTHER TREES WILL BE FURTHER EVALUATED AT THE TIME OF HOUSE CONSTRUCTION TO DETERMINE IF THEY CAN BE SAVED. ONLY THE 62 INCH AND 64 INCH SILVER MAPLE TREES LOCATED IN FRONT OF #339 SUMMER STREET HAVE BEEN IDENTIFIED AS TREES TO BE SAVED.

EXISTING CONDITIONS AND DEMOLITION PLAN
ROAD A
LYNNFIELD, MA

APPLICANT/SUBDIVIDER:
HPI, LLC
23 STILES ROAD - SUITE 104
SALEM, NH 03079

OWNER:
SEE SHEET 1

ASSESSOR'S REFERENCE:
MAP 34 LOTS 2015, 2027, & 2055

NO. REVISION DATE

SCALE: 1"=40'

NOVEMBER 21, 2018

W & S
WILLIAMS & SPARAGES
REGISTERED PLANNERS & ENGINEERS
189 NORTH MAIN STREET
SUITE 101
MIDDLETON, MA 01949
PHONE: (978) 539-8888
FAX: (978) 539-8220
WSENGINEERS.COM

EXCOND/DEMO SHEET 1 OF 1
SHEET 2 OF 8

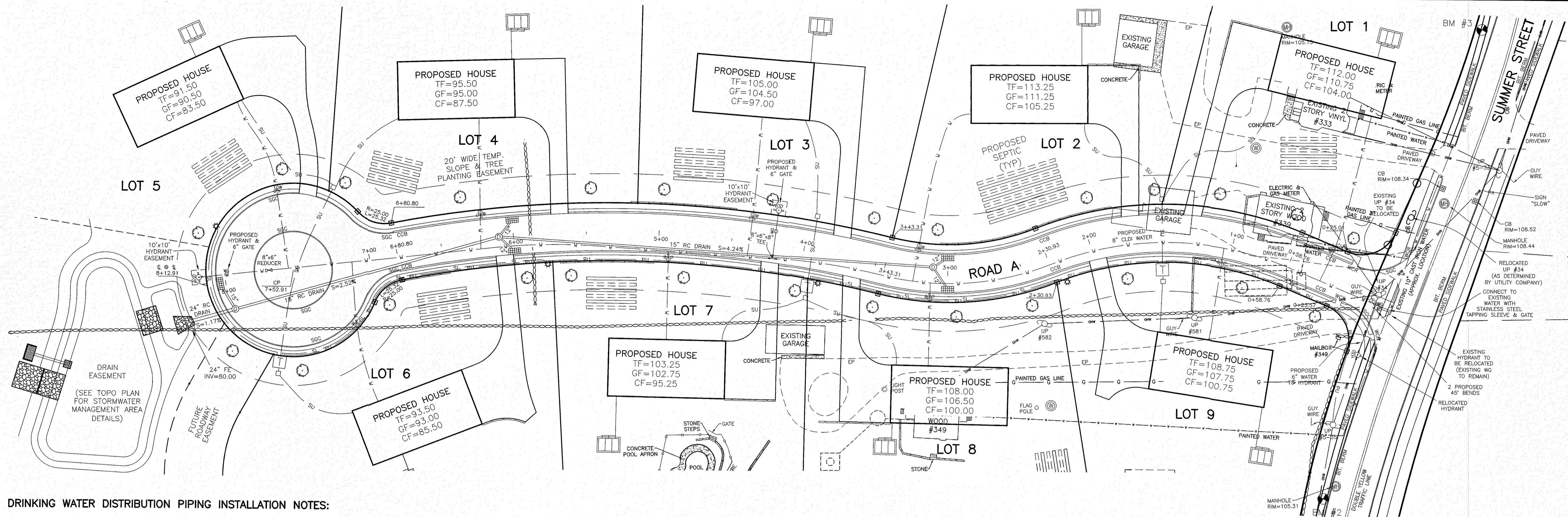
CHRIST P. SPARAGES
CIVIL
No. 40174
DATE: _____



LYNNFIELD PLANNING BOARD

PORTIONS OF LOT 5 LIE WITHIN THE FLOOD PLAIN DISTRICT AND WETLAND BUFFER ZONE DISTRICT

ZONING DISTRICT: RB
MINIMUM LOT AREA = 30,000 S.F.
MINIMUM LOT FRONTAGE = 150 FEET
FRONT YARD SETBACK = 40 FEET
(OR 60 FEET FROM STREET CENTER LINE)
SIDE YARD SETBACK = 20 FEET
REAR YARD SETBACK = 20 FEET



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WILLIAMS & SPARGES LLC

ZONING DISTRICT: RB

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 MINIMUM LOT FRONTAGE = 150 FEET
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 (OR 60 FROM STREET CENTER LINE)
 SIDE YARD SETBACK = 20 FEET
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PORTIONS OF LOT 5 LIE WITHIN THE FLOOD PLAIN DISTRICT AND WETLAND BUFFER ZONE DISTRICT

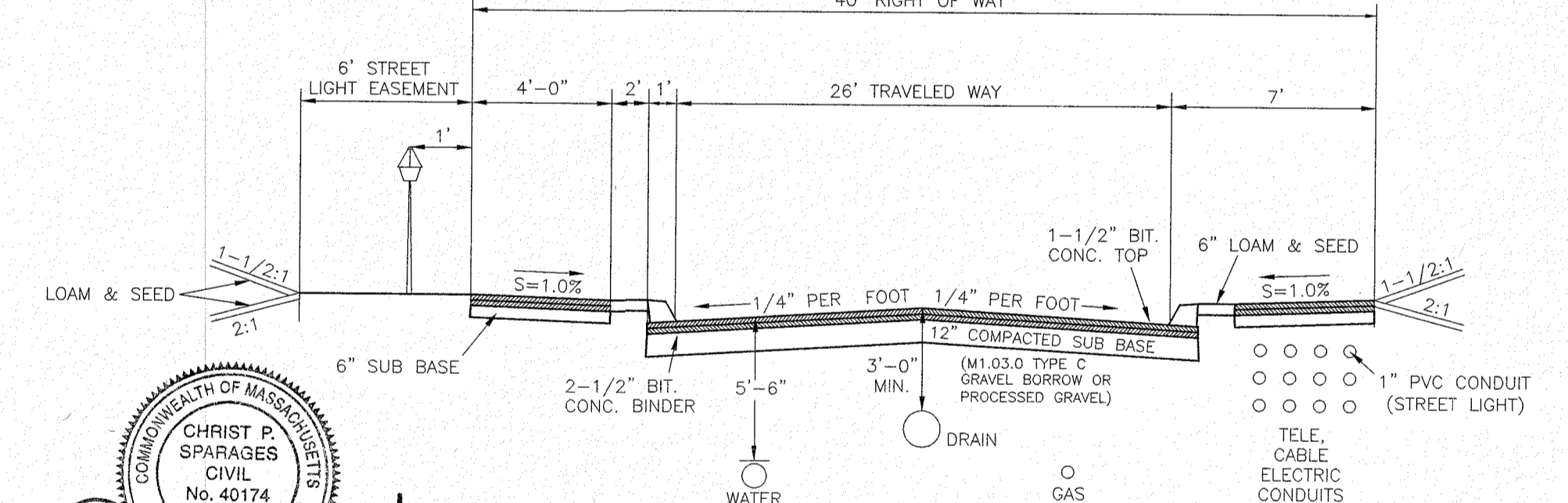
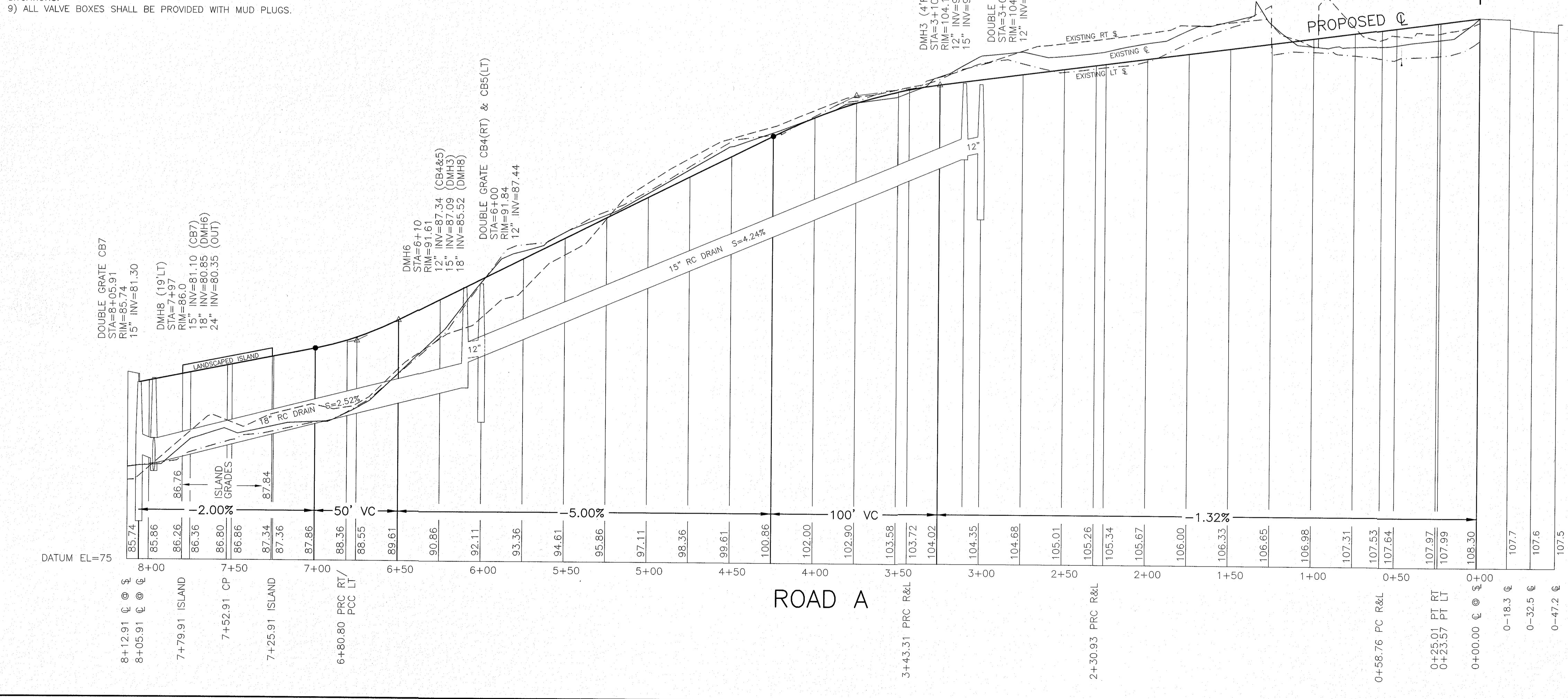
DRINKING WATER DISTRIBUTION PIPING INSTALLATION NOTES:

- 1) A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO THE START OF CONSTRUCTION.
- 2) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LYNNFIELD CENTER WATER DISTRICT UNLESS OTHERWISE SPECIFIED.
- 3) AS BUILT PLANS SHALL BE SUBMITTED TO THE LYNNFIELD CENTER WATER DISTRICT IN ELECTRONIC FORMAT, AS WELL AS ONE SET OF REPRODUCIBLE PLANS. THESE WILL INCLUDE TIES TO VALVES, CURB BOXES, AND SERVICE CORPORATIONS.
- 4) SHUTDOWN AND TIE IN PROCEDURES SHALL BE COORDINATED WITH THE LYNNFIELD CENTER WATER DISTRICT.
- 5) CHLORINATING AND HYDROSTATIC TESTING SHALL BE WITNESSED BY A REPRESENTATIVE OF THE LYNNFIELD CENTER WATER DISTRICT.
- 6) SERVICE CONNECTIONS SHALL BE COMPLETED AFTER THE NEW WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND APPROVED.
- 7) MAINTAIN A MINIMUM CLEARANCE BETWEEN THE NEW WATER MAIN AND OTHER UTILITIES OF AT LEAST 18 INCHES.
- 8) ALL HYDRANTS SHALL INCLUDE SNOW FLAGS TO PROVIDE VISIBILITY DURING SNOW SITUATIONS.
- 9) ALL VALVE BOXES SHALL BE PROVIDED WITH MUD PLUGS.

CLERKS CERTIFICATION ON THE PLAN
 DATE: _____

I, _____ CLERK OF THE TOWN OF LYNNFIELD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK



DETAIL OF STREET AND SIDEWALK CROSS SECTION WITH BURIED UTILITIES (NOT TO SCALE)

CHRIST P. SPARGES
 CIVIL
 No. 40174
 (1/19/19)

LYNNFIELD PLANNING BOARD

□ - DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.

BENCHMARKS: (N.A.V.D. 88)

- #1) TOP OF STONE BOUND DRILL HOLE FRONT OF #6 CRANBERRY LANE - ELEV=93.80 (SEE TOPO SHEET FOR LOCATION)
- #2) TOP OF MAG NAIL IN SIDEWALK SUMMER STREET (LOT 9) - ELEV=105.53
- #3) TOP OF MAG NAIL IN SIDEWALK SUMMER STREET (LOT 1) - ELEV=110.37

NO.	REVISION	DATE
DEFINITIVE PLAN & PROFILE		
ROAD A		
LYNNFIELD, MA		

APPLICANT/SUBDIVIDER:
 HPI, LLC
 23 STILES ROAD - SUITE 104
 SALEM, NH 03079

OWNER:
 SEE SHEET 1

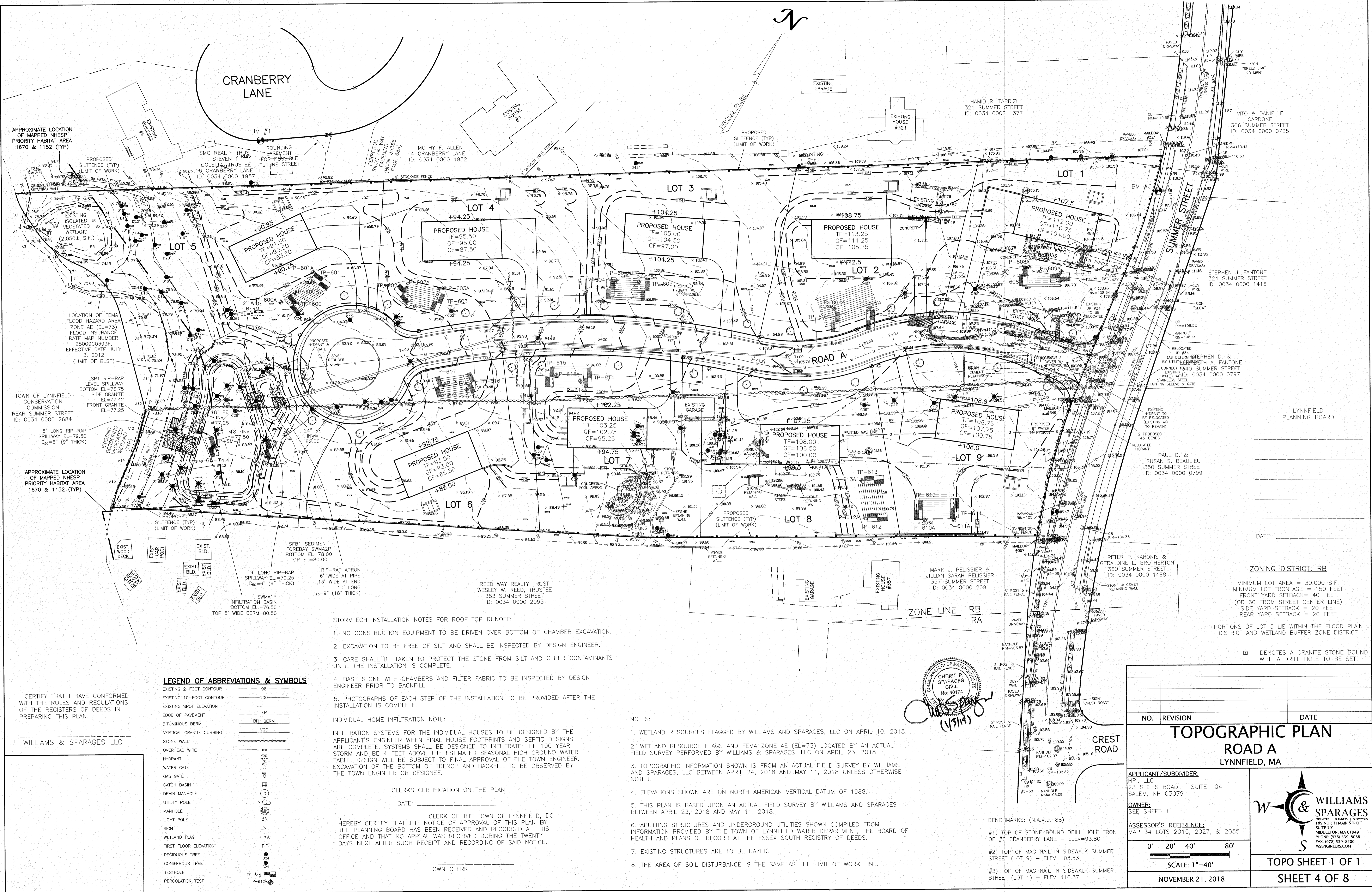
ASSESSOR'S REFERENCE:
 MAP 34 LOTS 2015, 2027, & 2055

SCALE: 1"=40' (HOR) & 4'(VERT)

NOVEMBER 21, 2018

WILLIAMS & SPARGES
 ENGINEERS & PLANNERS, INC.
 149 NORTH MAIN STREET
 SUITE 101
 MIDDLETON, MA 01949
 PHONE: (978) 539-8888
 FAX: (978) 539-8200
 WSENGINEERS.COM

PROFILE SHEET 1 OF 1
 SHEET 3 OF 8



APPROXIMATE LOCATION OF MAPPED NHESP PRIORITY HABITAT AREA 1670 & 1152 (TYP)

LOCATION OF FEMA FLOOD HAZARD AREA ZONE AE (EL=73) FLOOD INSURANCE RATE MAP NUMBER 250903093F EFFECTIVE DATE JULY 3, 2012 (LIMIT OF BLSF)

TOWN OF LYNNFIELD CONSERVATION COMMISSION REAR SUMMER STREET ID: 0034 0000 2684

APPROXIMATE LOCATION OF MAPPED NHESP PRIORITY HABITAT AREA 1670 & 1152 (TYP)

LEGEND OF ABBREVIATIONS & SYMBOLS

EXISTING 2-FOOT CONTOUR	98
EXISTING 10-FOOT CONTOUR	100
EXISTING SPOT ELEVATION	EP
EDGE OF PAVEMENT	BIT. BERM
BITUMINOUS BERM	VGC
VERTICAL CURBING	
STONE WALL	
OVERHEAD WIRE	
HYDRANT	
WATER GATE	
GAS GATE	
CATCH BASIN	
DRAIN MANHOLE	
UTILITY POLE	
MANHOLE	
LIGHT POLE	
SIGN	
WETLAND FLAG	A1
FIRST FLOOR ELEVATION	F.F.
DECIDUOUS TREE	
CONIFEROUS TREE	
TESTHOLE	
PERCOLATION TEST	TP-612

STORMTECH INSTALLATION NOTES FOR ROOF TOP RUNOFF:

1. NO CONSTRUCTION EQUIPMENT TO BE DRIVEN OVER BOTTOM OF CHAMBER EXCAVATION.
2. EXCAVATION TO BE FREE OF SILT AND SHALL BE INSPECTED BY DESIGN ENGINEER.
3. CARE SHALL BE TAKEN TO PROTECT THE STONE FROM SILT AND OTHER CONTAMINANTS UNTIL THE INSTALLATION IS COMPLETE.
4. BASE STONE WITH CHAMBERS AND FILTER FABRIC TO BE INSPECTED BY DESIGN ENGINEER PRIOR TO BACKFILL.
5. PHOTOGRAPHS OF EACH STEP OF THE INSTALLATION TO BE PROVIDED AFTER THE INSTALLATION IS COMPLETE.

INDIVIDUAL HOME INFILTRATION NOTE:

INFILTRATION SYSTEMS FOR THE INDIVIDUAL HOUSES TO BE DESIGNED BY THE APPLICANT'S ENGINEER WHEN FINAL HOUSE FOOTPRINTS AND SEPTIC DESIGNS ARE COMPLETE. SYSTEMS SHALL BE DESIGNED TO INFILTRATE THE 100 YEAR STORM AND BE 4 FEET ABOVE THE ESTIMATED SEASONAL HIGH GROUND WATER TABLE. DESIGN WILL BE SUBJECT TO FINAL APPROVAL OF THE TOWN ENGINEER. EXCAVATION OF THE BOTTOM OF TRENCH AND BACKFILL TO BE OBSERVED BY THE TOWN ENGINEER OR DESIGNER.

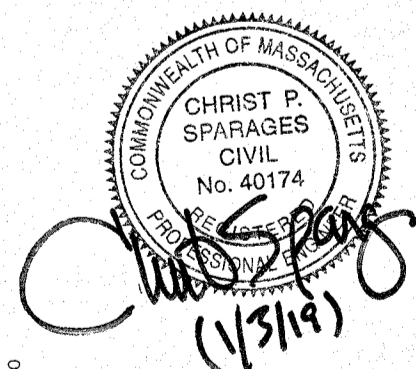
CLERKS CERTIFICATION ON THE PLAN

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TOWN CLERK

NOTES:

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7. EXISTING STRUCTURES ARE TO BE RAZED.
8. THE AREA OF SOIL DISTURBANCE IS THE SAME AS THE LIMIT OF WORK LINE.



NO.	REVISION	DATE
TOPOGRAPHIC PLAN		
ROAD A		
LYNNFIELD, MA		
APPLICANT/SUBDIVIDER: HPI, LLC 23 STILES ROAD - SUITE 104 SALEM, NH 03079		
OWNER: SEE SHEET 1		
ASSESSOR'S REFERENCE: MAP 34 LOTS 2015, 2027, & 2055		
SCALE: 1"=40' 		TOPO SHEET 1 OF 1 SHEET 4 OF 8
NOVEMBER 21, 2018		

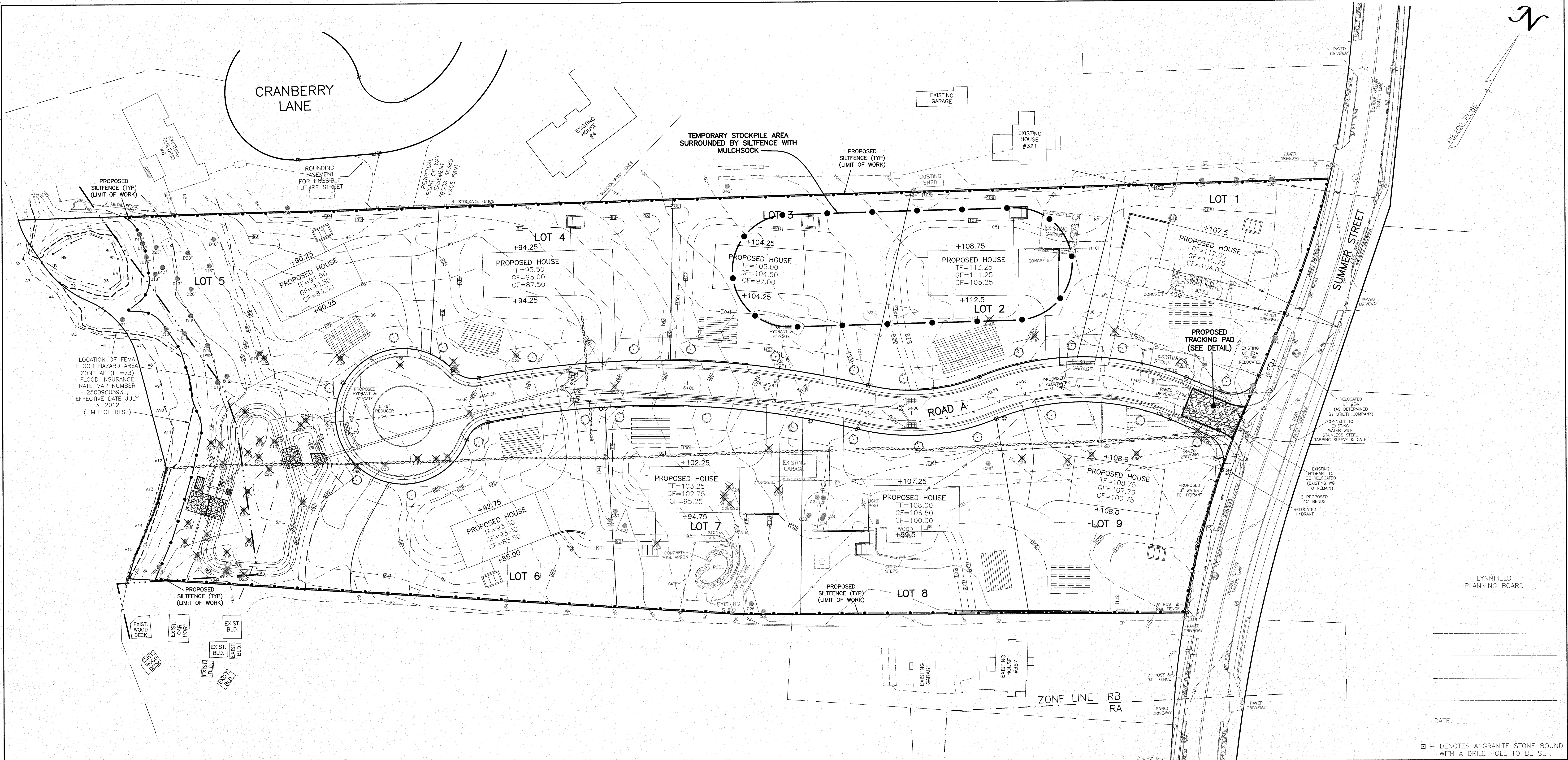
ZONING DISTRICT: RB

MINIMUM LOT AREA = 30,000 S.F.
 MINIMUM LOT FRONTAGE = 150 FEET
 FRONT YARD SETBACK = 40 FEET
 (OR 60 FROM STREET CENTER LINE)
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PORTIONS OF LOT 5 LIE WITHIN THE FLOOD PLAIN DISTRICT AND WETLAND BUFFER ZONE DISTRICT

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BENCHMARKS: (N.A.V.D. 88)
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LEGEND OF ABBREVIATIONS & SYMBOLS

EXISTING 2-FOOT CONTOUR	-98-
EXISTING 10-FOOT CONTOUR	-100-
EXISTING SPOT ELEVATION	EP
EDGE OF PAVEMENT	EP
BITUMINOUS BERM	BIT. BERM
VERTICAL GRANITE CURBING	VGC
STONE WALL	---
OVERHEAD WIRE	---
HYDRANT	⊕
WATER GATE	⊕
GAS GATE	⊕
CATCH BASIN	⊕
DRAIN MANHOLE	⊕
UTILITY POLE	⊕
MANHOLE	⊕
LIGHT POLE	⊕
SIGN	⊕
WETLAND FLAG	⊕
FIRST FLOOR ELEVATION	F.F.
DECIDUOUS TREE	⊕
CONIFEROUS TREE	⊕

ZONING DISTRICT: RB

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PORTIONS OF LOT 5 LIE WITHIN THE FLOOD PLAIN DISTRICT AND WETLAND BUFFER ZONE DISTRICT

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TOWN CLERK

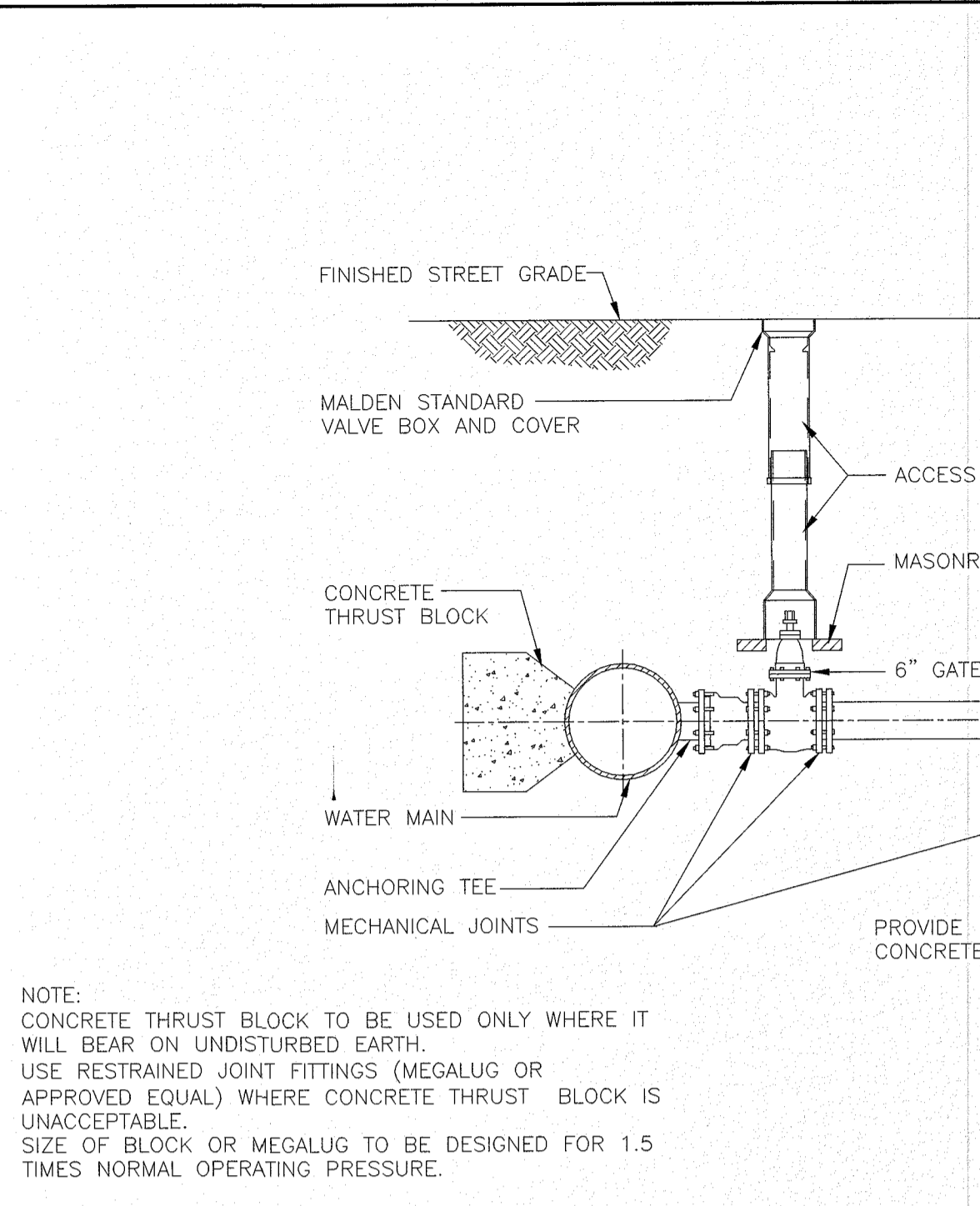
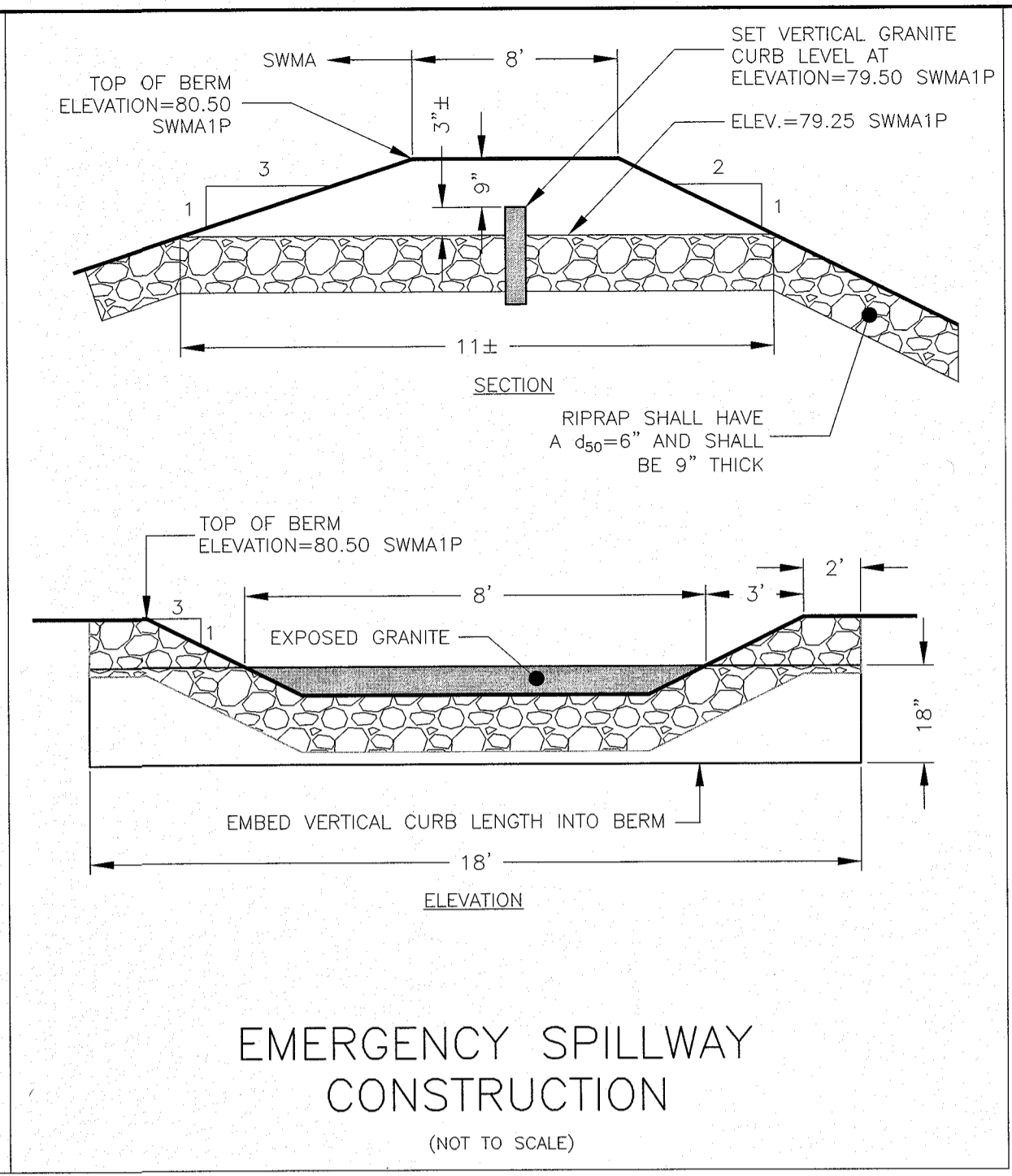
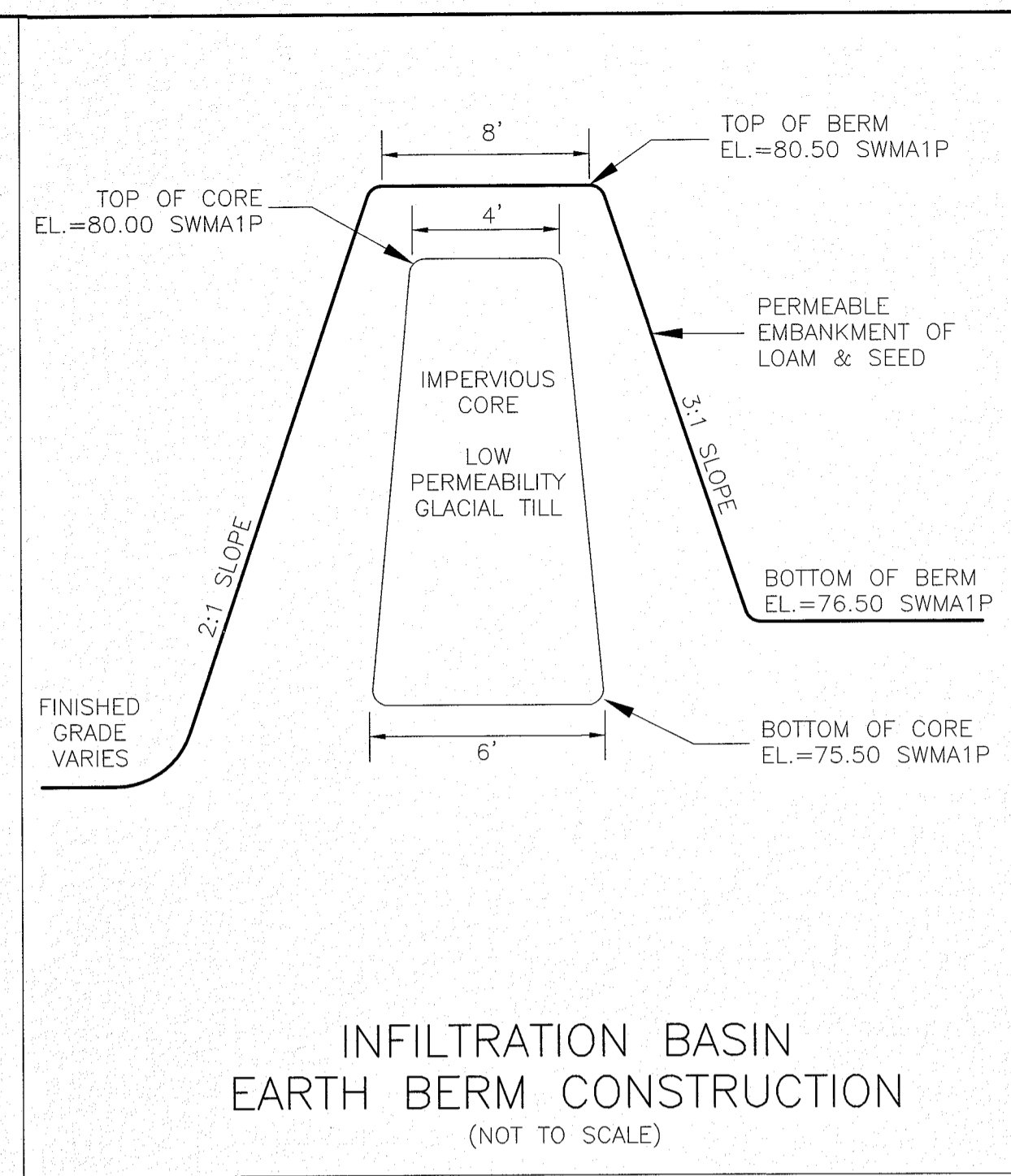
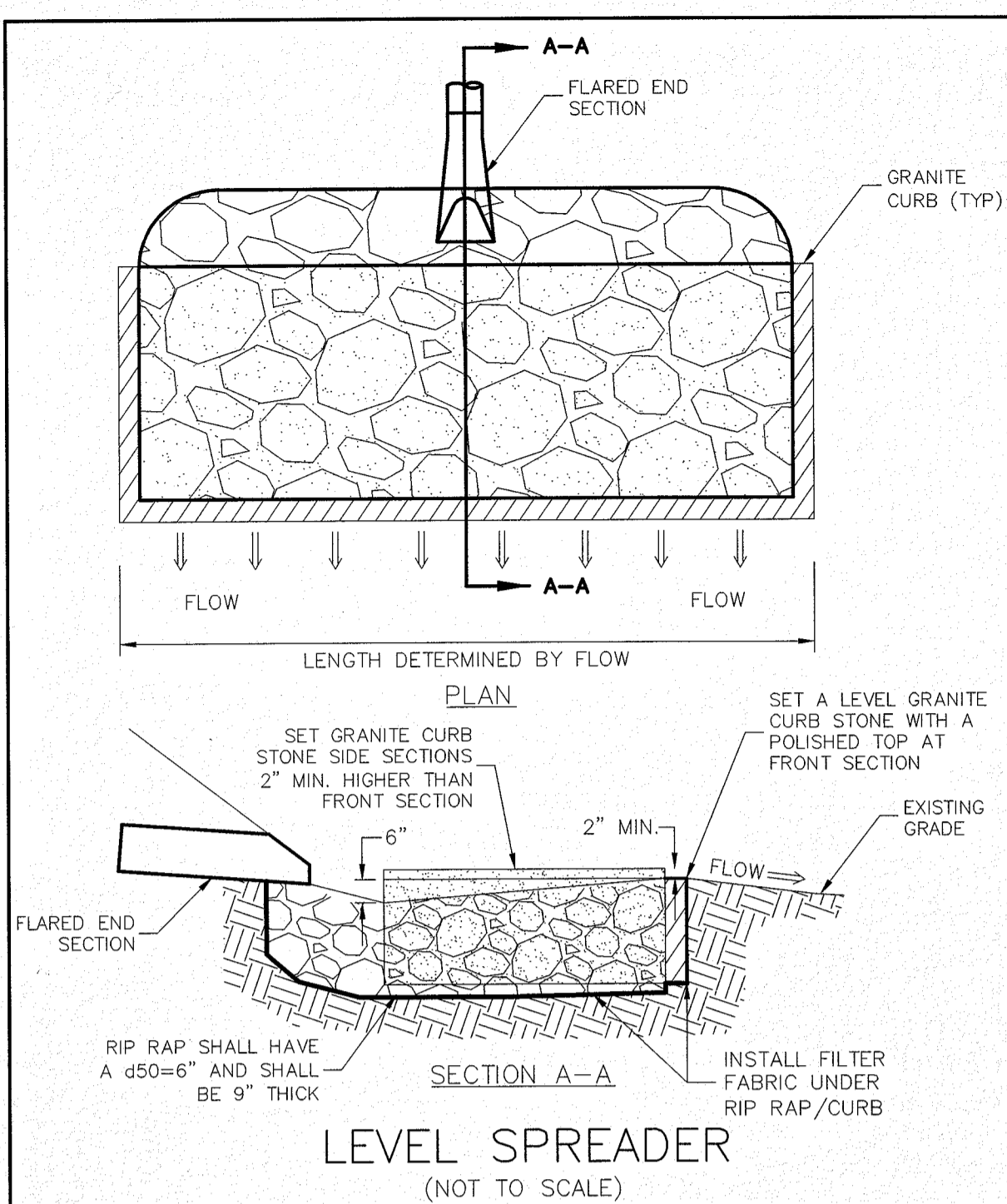
NOTES:

- ALL CLEARING, EXCAVATING, AND FILING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 8.2.1 OF THE RULES AND REGULATIONS OF THE PLANNING BOARD GOVERNING THE SUBDIVISION OF LAND IN LYNNFIELD, MASSACHUSETTS, CHAPTER 375.
- THE PROPOSED ROADWAY SHALL BE LAID OUT BY A SURVEY FIELD CREW UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR PRIOR TO CONSTRUCTION.
- AREAS TO BE HYDROSEEDING SHALL BE REVIEWED WITH THE TOWN ENGINEER PRIOR TO APPLICATION.
- SILTSACKS SHALL BE PLACED IN ALL NEW CATCH BASINS IMMEDIATELY FOLLOWING INSTALLATION.
- THE CONTRACTOR SHALL NOTE THAT THERE IS A CONSTRUCTION PERIOD POLLUTION PREVENTION PLAN, LONG-TERM POLLUTION PREVENTION PLAN, AND A STORMWATER POLLUTION PREVENTION PLAN UNDER THE NPDES CONSTRUCTION GENERAL PERMIT.
- ALL DRAINAGE STRUCTURES AND PIPING SHALL BE CLEANED AFTER THE SITE IS STABILIZED.
- THE AREA OF SOIL DISTURBANCE IS THE SAME AS THE LIMIT OF WORK LINE.

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.
 WILLIAMS & SPARGES LLC

NO.	REVISION	DATE
EROSION AND SEDIMENT CONTROL PLAN		
ROAD A		
LYNNFIELD, MA		
APPLICANT/SUBDIVIDER: HPI, LLC 23 STILES ROAD - SUITE 104 SALEM, NH 03079		
OWNER: SEE SHEET 1		
ASSESSOR'S REFERENCE: MAP 34 LOTS 2015, 2027, & 2055		
<p>SCALE: 1"=40'</p>		
NOVEMBER 21, 2018		SHEET 6 OF 8

CHRIST P. SPARGES CIVIL No. 40174
 (1/31/19)

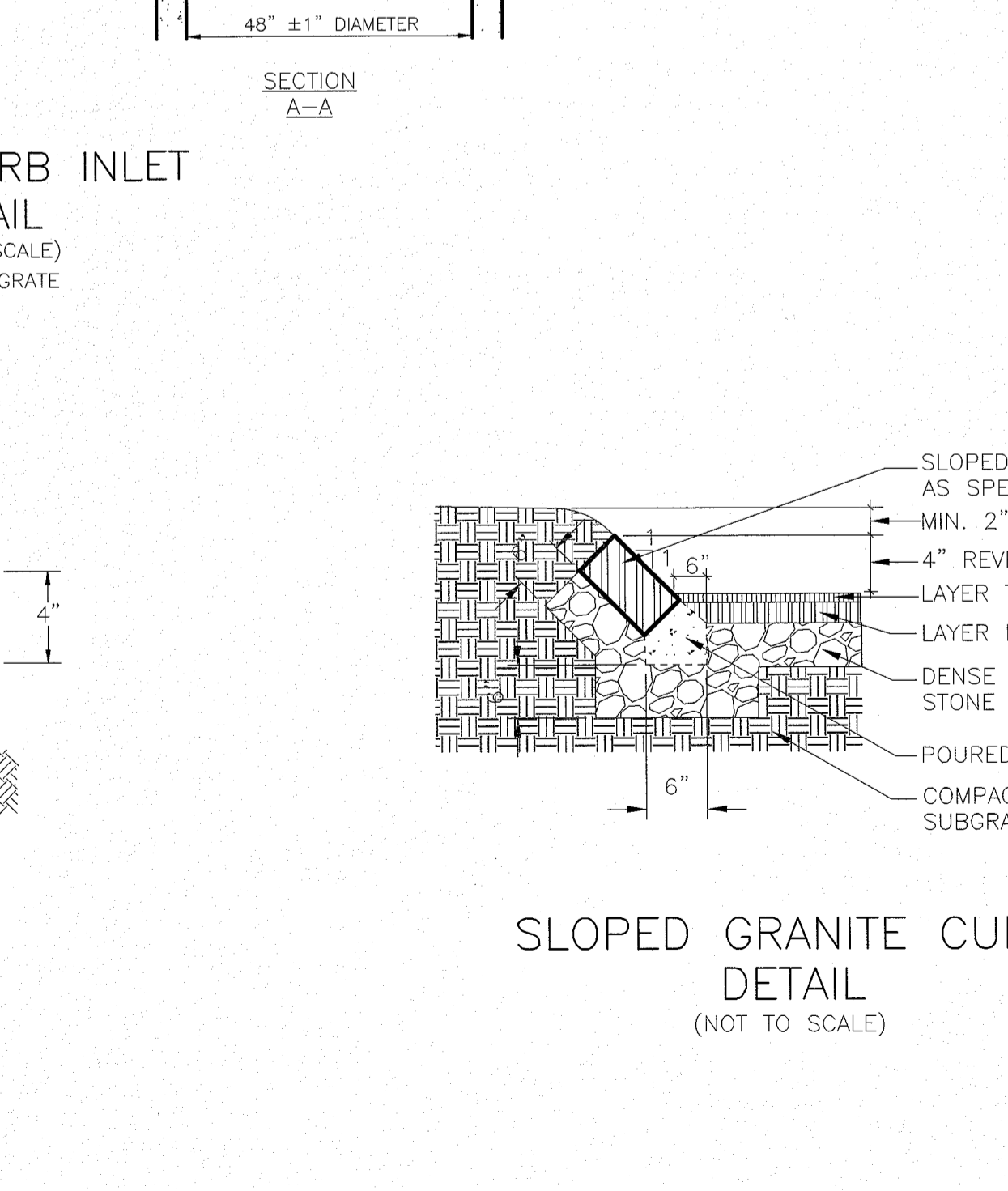
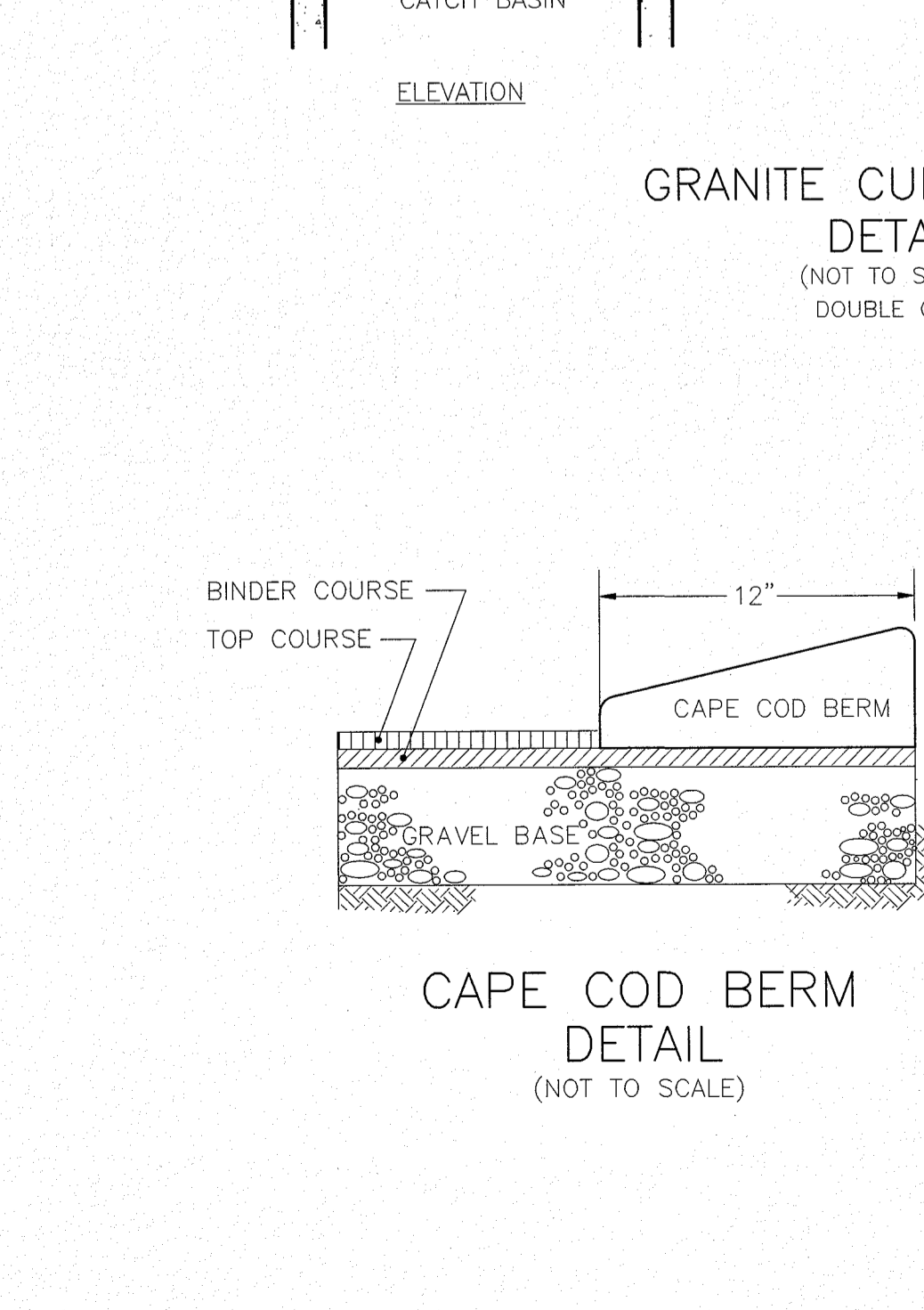
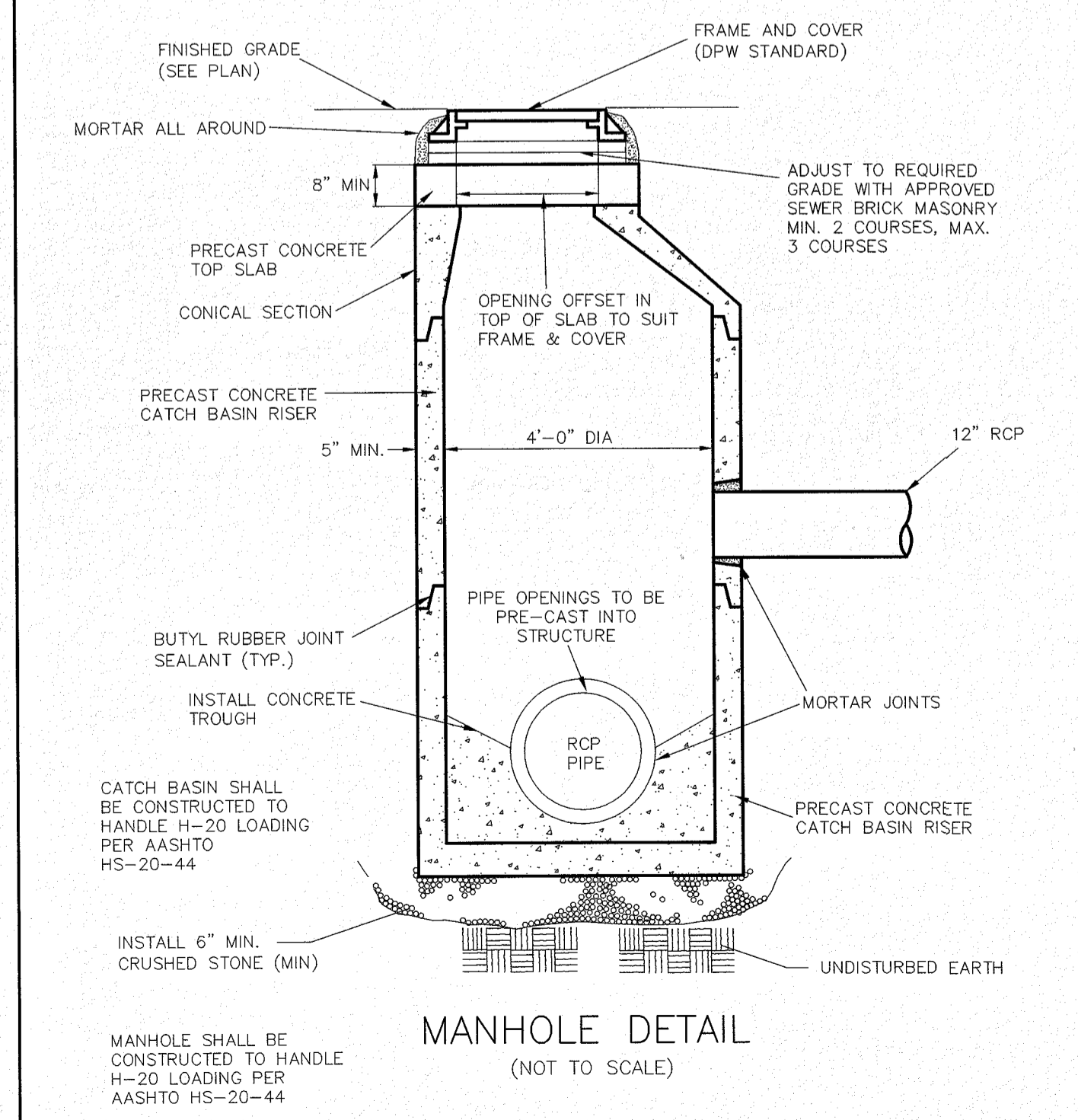
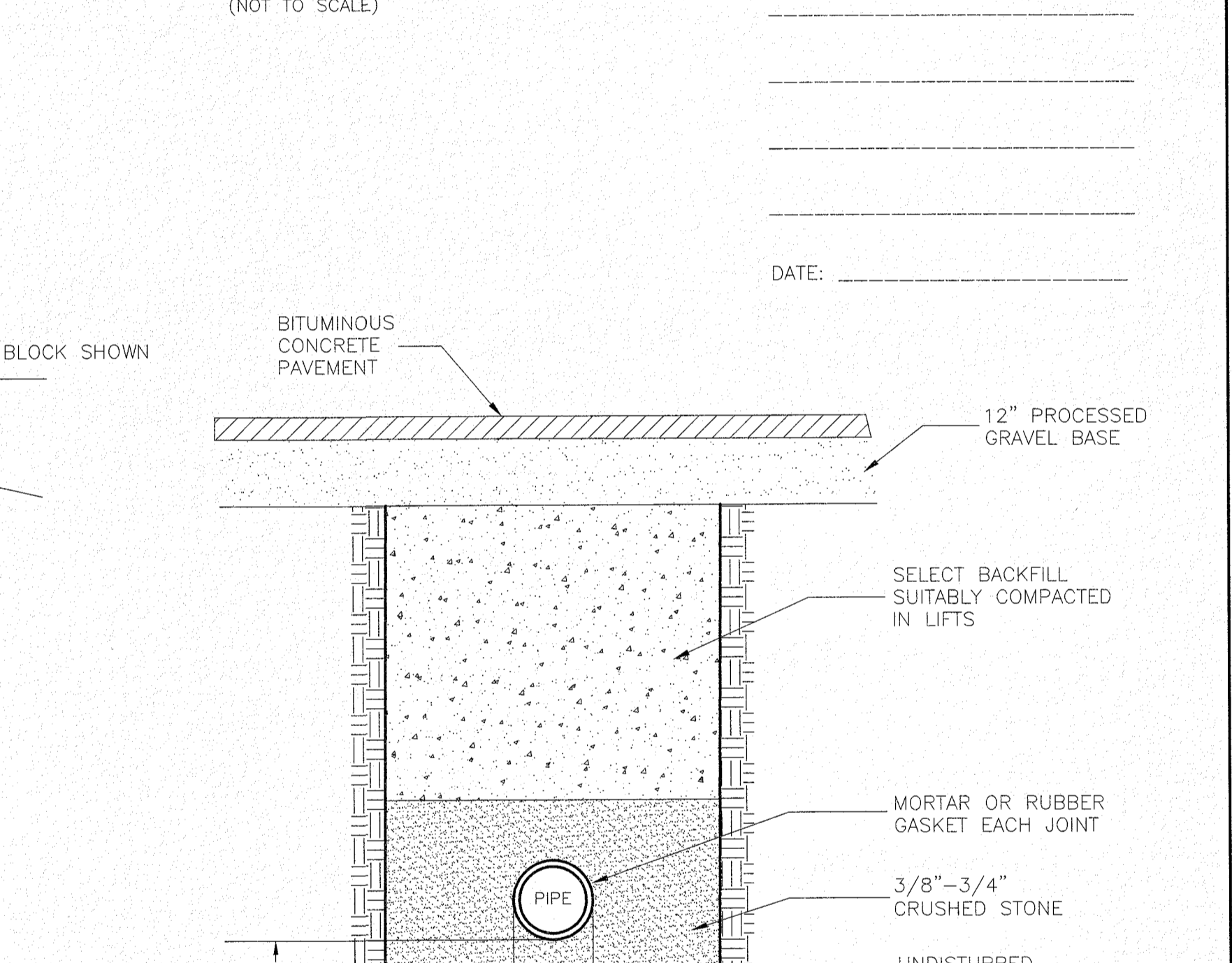
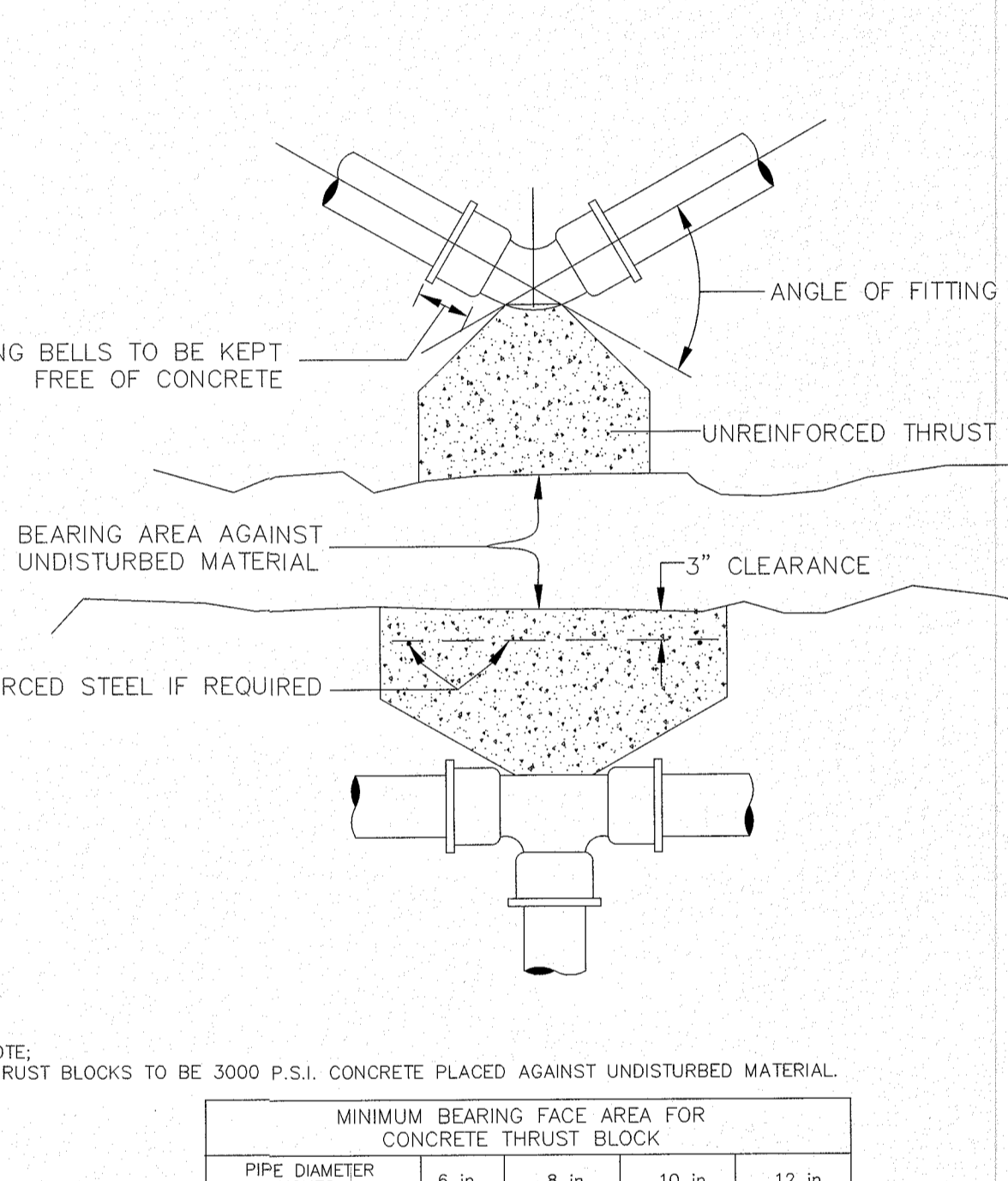
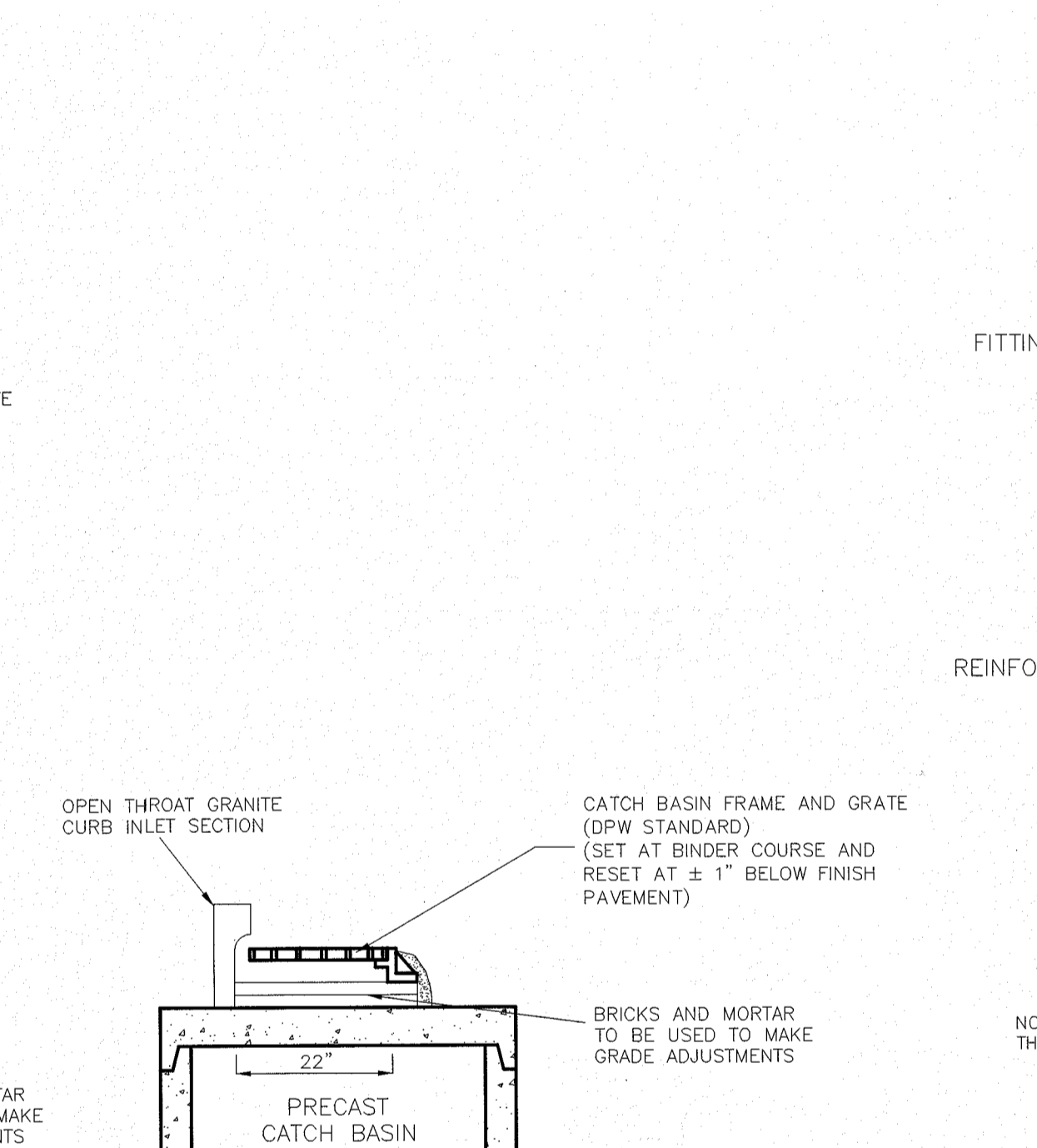
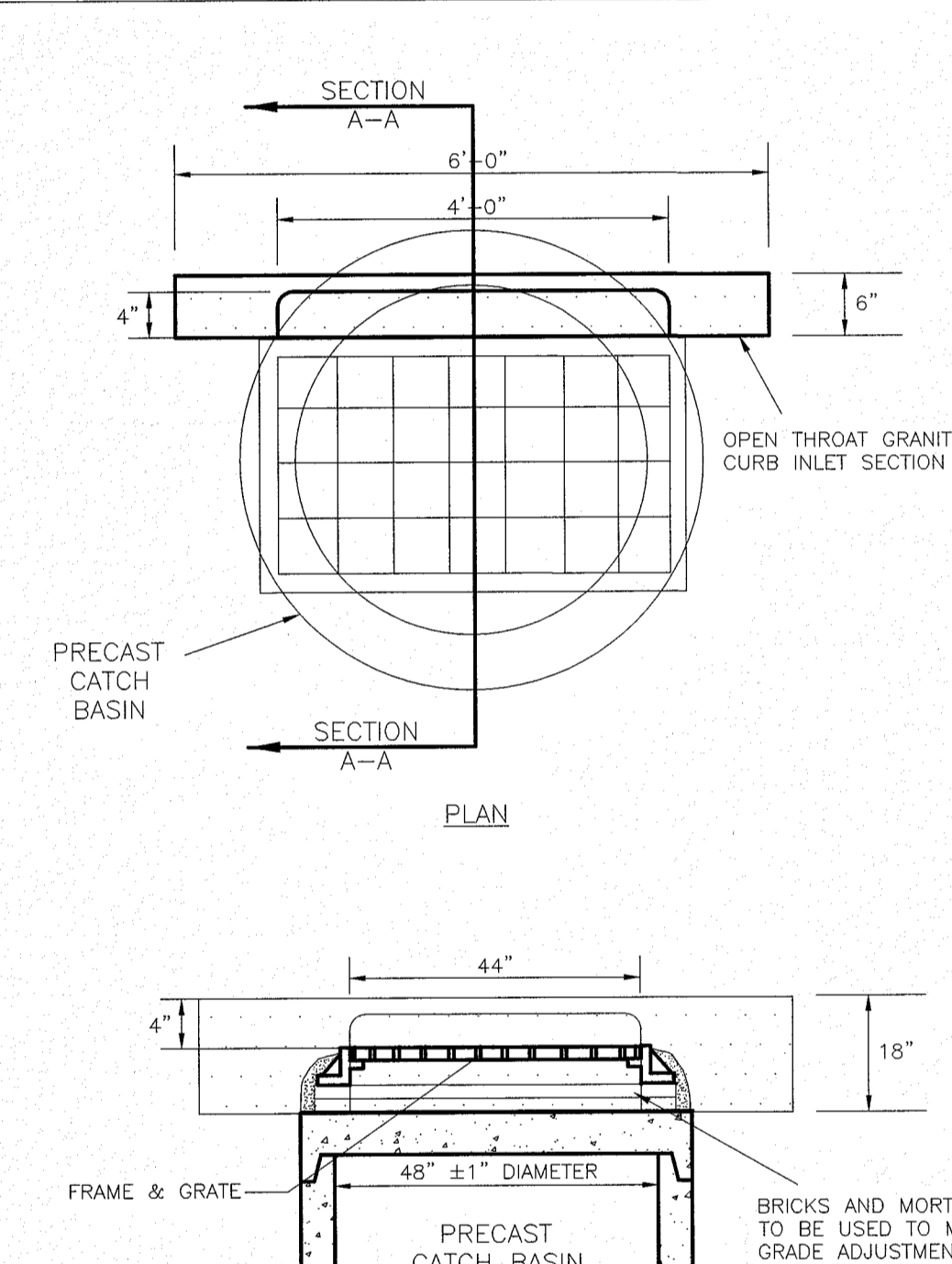
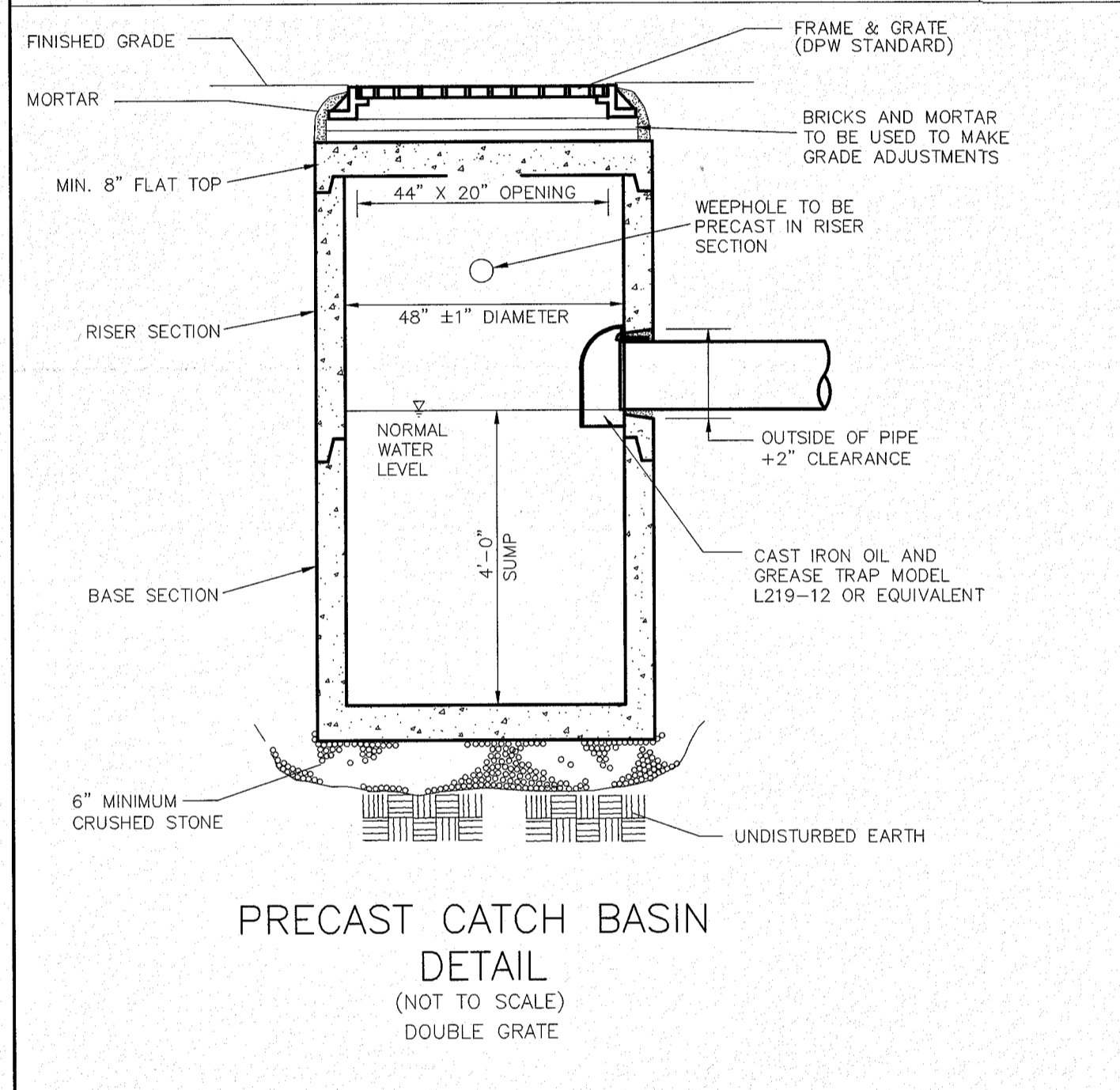


I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

LYNNFIELD PLANNING BOARD

DATE: _____



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DATE: _____

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_____ TOWN CLERK

COMMUNITY OF MASSACHUSETTS
CHRIST F. SPARAGES
CIVIL
No. 40174
Professional Seal

NO. REVISION DATE

CONSTRUCTION DETAILS
ROAD A
LYNNFIELD, MA

APPLICANT/SUBDIVIDER:
RPI, LLC
23 STILES ROAD - SUITE 104
SALEM, NH 03079

OWNER:
SEE SHEET 1

ASSESSOR'S REFERENCE:
MAP 34 LOTS 2015, 2027, & 2055

SCALE: AS SHOWN

NOVEMBER 21, 2018

WILLIAMS & SPARAGES
ENGINEERS | PLANNERS | SURVEYORS
180 NORTH MAIN STREET
SUITE 101
MIDDLETON, MA 01949
PHONE: (978) 539-8088
FAX: (978) 539-8200
WSENGINEERS.COM

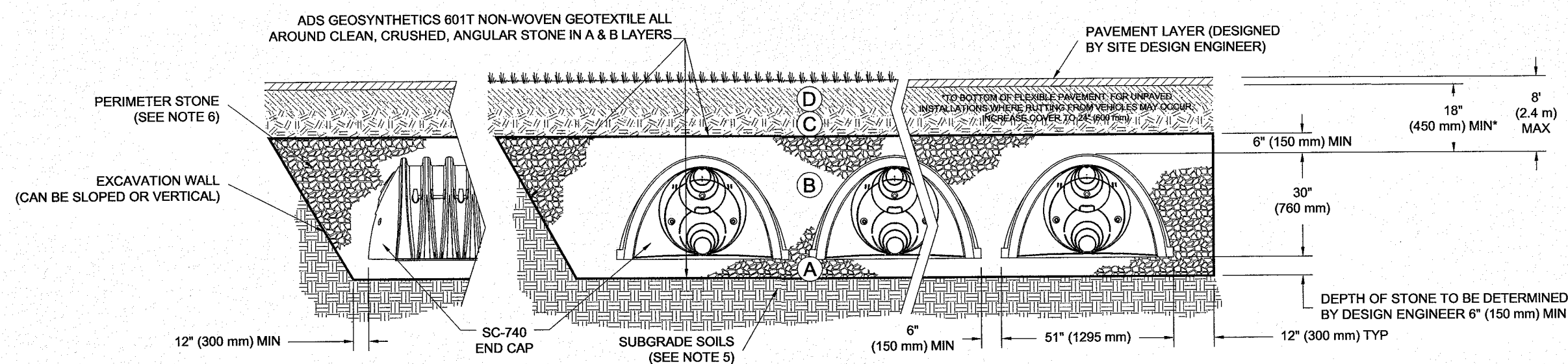
DETAIL SHEET 1 OF 2
SHEET 7 OF 8

P:\LW-0100338 & 349 Summer Street Drawings\Drawings\338349.dwg, 1/12/2018 12:21:21 PM, QPS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ³

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2419 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH SC-740 CROSS SECTION

(NOT TO SCALE)

STORMTECH SC-740 TECHNICAL SPECIFICATIONS

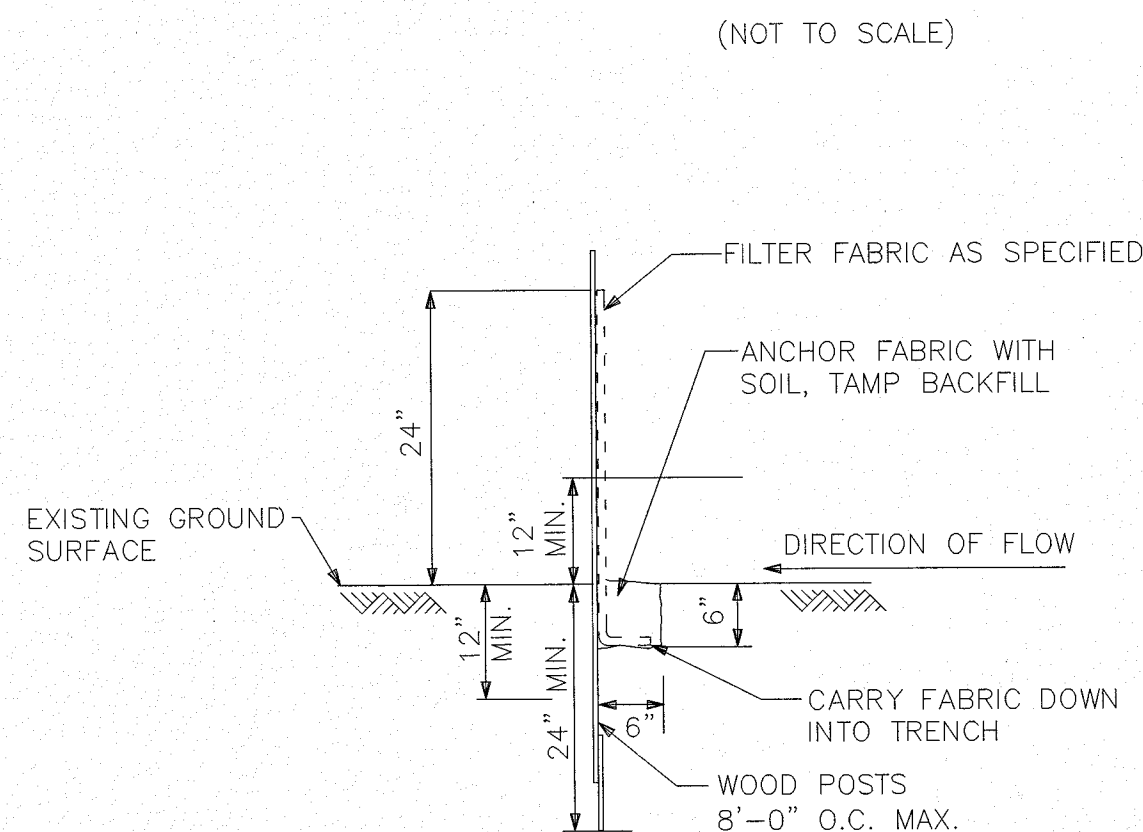
(NOT TO SCALE)

PART #	STUB	A	B	C
SC740EP06T / SC740EP06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740EP08B / SC740EP08BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	—
SC740EP08T / SC740EP08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	0.6" (15 mm)
SC740EP08B / SC740EP08BPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740EP10T / SC740EP10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EP10B / SC740EP10BPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EP12T / SC740EP12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	1.2" (30 mm)
SC740EP12B / SC740EP12BPC	15" (375 mm)	16.4" (417 mm)	9.0" (229 mm)	—
SC740EP15T / SC740EP15TPC	15" (375 mm)	16.4" (417 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740EP15B / SC740EP15BPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EP18T / SC740EP18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	1.6" (41 mm)
SC740EP18B / SC740EP18BPC	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EP24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-852-2094.
 * FOR THE SC740EP24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.
 NOTE: ALL DIMENSIONS ARE NOMINAL.

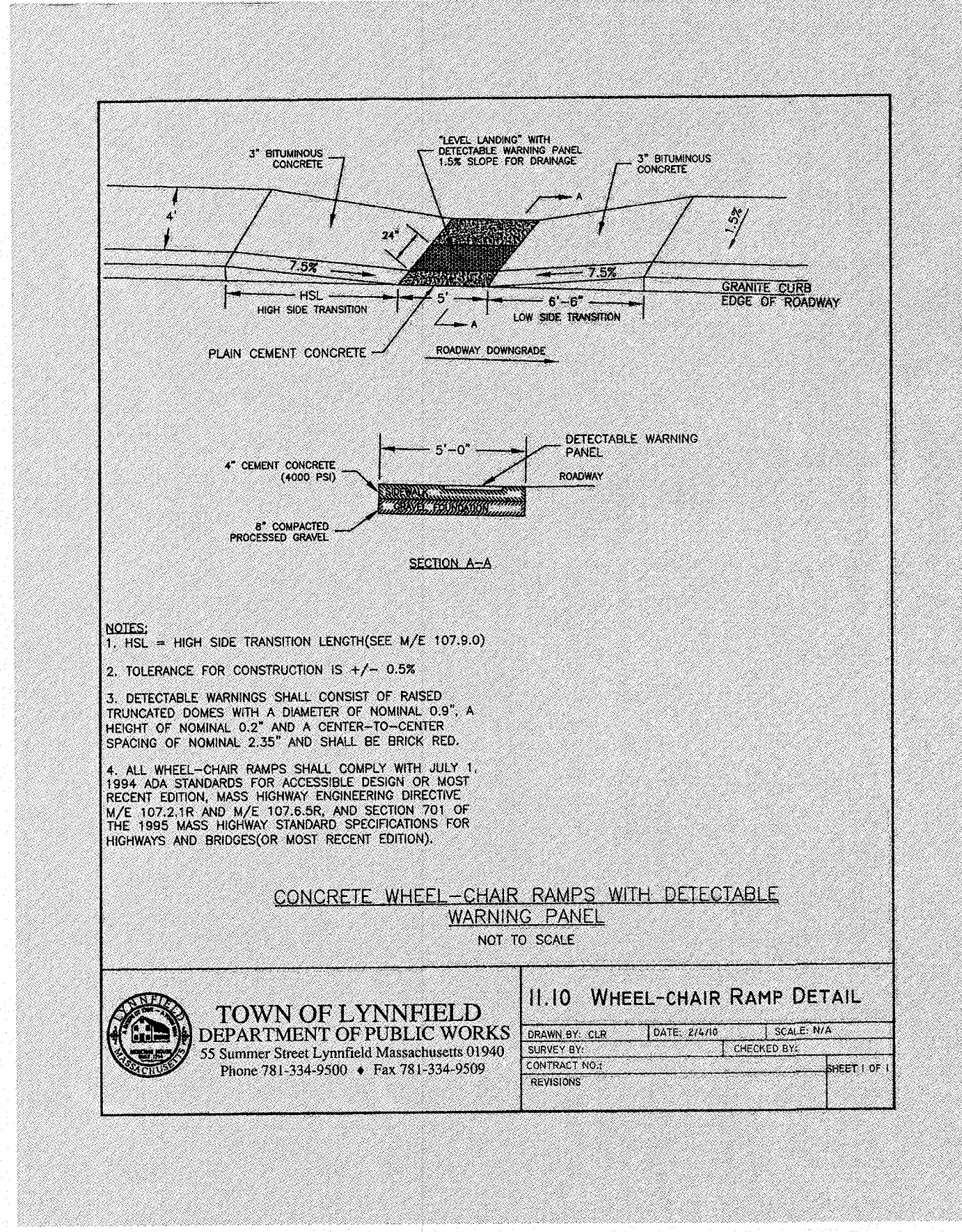
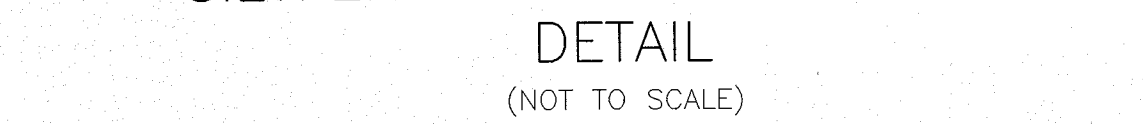
INSERTA TEE DETAIL

(NOT TO SCALE)



SILTFENCE WITH MULCH SOCK DETAIL

(NOT TO SCALE)



TOWN OF LYNNFIELD
 DEPARTMENT OF PUBLIC WORKS
 55 Summer Street Lynnfield Massachusetts 01940
 Phone 781-334-9300 • Fax 781-334-9309

11.10 WHEEL-CHAIR RAMP DETAIL
 DRAWN BY: CLR DATE: 2/18/18 SCALE: N/A
 CHECKED BY: CIVIL
 REVISIONS:

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARGES LLC

LYNNFIELD PLANNING BOARD

DATE: _____

STORMTECH INSTALLATION NOTES FOR ROOF TOP RUNOFF:

- NO CONSTRUCTION EQUIPMENT TO BE DRIVEN OVER BOTTOM OF CHAMBER EXCAVATION.
- EXCAVATION TO BE FREE OF SILT AND SHALL BE INSPECTED BY DESIGN ENGINEER.
- CARE SHALL BE TAKEN TO PROTECT THE STONE FROM SILT AND OTHER CONTAMINANTS UNTIL THE INSTALLATION IS COMPLETE.
- BASE STONE WITH CHAMBERS AND FILTER FABRIC TO BE INSPECTED BY DESIGN ENGINEER PRIOR TO BACKFILL.
- PHOTOGRAPHS OF EACH STEP OF THE INSTALLATION TO BE PROVIDED AFTER THE INSTALLATION IS COMPLETE.

CLERK'S CERTIFICATION ON THE PLAN

DATE: _____

I, CLERK OF THE TOWN OF LYNNFIELD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL HAS BEEN RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

CHRIST P. SPARGES
 1/3/19

NO.	REVISION	DATE

CONSTRUCTION DETAILS
ROAD A
LYNNFIELD, MA

APPLICANT/SUBDIVIDER: HPI, LLC 23 STILES ROAD - SUITE 104 SALEM, NH 03079	WILLIAMS & SPARGES ENGINEERS & PLANNERS 189 NORTH MAIN STREET SUITE 101 MIDDLETON, MA 01949 PHONE: (978) 539-8088 FAX: (978) 539-8200 WSENGINEERS.COM
OWNER: SEE SHEET 1	
ASSESSOR'S REFERENCE: MAP 34- LOTS 2015, 2027, & 2055	SCALE: AS SHOWN
NOVEMBER 21, 2018	DETAIL SHEET 2 OF 2 SHEET 8 OF 8