

LOT	AREA (S.F.)	MBA (S.F.)
1	30,257	11,175
2	30,919	11,183
3	30,160	10,815
4	30,160	10,815
5	31,297	11,559
6	33,958	10,945
7	30,183	11,774
8	35,888	11,271
9	30,417	10,973
10	30,379	10,809

EXISTING ZONING DATA
 ZONE: RESIDENTIAL F1
 MIN. LOT AREA: 43,560 S.F.
 MIN. FRONTAGE/WIDTH: 150'
 MIN. YARDS: FRONT 60'
 SIDE 30'
 REAR 45'
 MAX. STRUCTURE HEIGHT: 35'
 MAX. COVERAGE, STRUCTURE: 25%
 MAX. COVERAGE, PAVEMENT: 60%
 MIN. BUILDABLE AREA: 16,686 S.F.

DEVELOPMENT AREAS
 10 LOTS 7.201± AC.
 ROAD (1331') 1.566± AC.
 OPEN SPACE 11.968± AC.
 TOTAL 20.735± AC.

DENSITY ANALYSIS
 AREA OF WETLANDS = 4.045± AC.
 AREA OF BUFFERS = 3.376± AC.
 USEABLE LAND AREA = 13.314± AC.
 AREA OF ROAD IN U.L.A. = 1.060± AC.
 (13.314 - 1.060) ÷ 1 = 12 LOTS ALLOWED
 10 LOTS ALLOWED PER CONVENTIONAL YIELD PLAN
 AREA DET. BASINS = 0.750± AC.
 USEABLE OPEN SPACE = 7.173± AC. 34.6%

PROPOSED ZONING DATA
 ZONE: RESIDENTIAL F1 CLUSTER
 MIN. LOT AREA: 30,000 S.F.
 MIN. FRONTAGE/WIDTH: 150'
 MIN. YARDS: FRONT 40'
 SIDE 30'
 REAR 40'
 MAX. STRUCTURE HEIGHT: 35'
 MAX. COVERAGE, STRUCTURE: 25%
 MAX. COVERAGE, PAVEMENT: 60%

DEPARTMENT OF ENVIRONMENT & PLANNING
 BUILDABLE AREA: 10,800 S.F.
 COMMON OPEN SPACE: 30%
 FRESHWATER WETLANDS PERMITS
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 3 2010 FILE # 14-0188
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

- SHEET INDEX**
- C1 OVERALL SITE PLAN
 - C2 EXISTING CONDITIONS PLAN
 - C3 EROSION CONTROL PLAN
 - C4 GRADING & DRAINAGE PLAN - 1
 - C5 GRADING & DRAINAGE PLAN - 2
 - C6 PLAN & PROFILE
 - C7 STORMWATER BASIN DETAILS
 - C8 CONSTRUCTION DETAILS - 1
 - C9 CONSTRUCTION DETAILS - 2
 - C10 CONSTRUCTION DETAILS - 3
 - C11 CONSTRUCTION DETAILS - 4
 - L12 LANDSCAPE PLAN - 1
 - L13 LANDSCAPE PLAN - 2
 - L14 LANDSCAPE DETAILS

- GENERAL NOTES**
1. PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM PLANS PREPARED BY OCEAN STATE PLANNERS, INC. ELEVATION DATUM IS NGVD29.
 2. WETLANDS DELINEATION PERFORMED BY OCEAN STATE PLANNERS, INC. AND PARTIALLY VERIFIED BY RIDEM FRESHWATER WETLAND APPL. NO. 09-0227.
 3. THERE IS A 100 YEAR FLOOD HAZARD ZONE AE ASSOCIATED WITH FRENCHTOWN BROOK PER FEMA FLOOD INSURANCE RATE MAPS 440300138G AND 440300251G DATED DEC. 3, 2010. AREAS OUTSIDE THIS FLOOD ZONE ARE IN FLOOD HAZARD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. FLOOD ELEVATIONS HAVE BEEN CONVERTED FROM NAVD89 TO NGVD29 DATUM.
 4. HAYBALE, SILT SOCK OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE FOR DRIVEWAY AND SITE DEVELOPMENT PRIOR TO CONSTRUCTION. THE TOTAL PROPOSED AREA OF DISTURBANCE IS 8.8± ACRES.
 5. PROJECT TO BE SERVICED WITH UNDERGROUND PUBLIC UTILITIES, TO INCLUDE KENT COUNTY WATER, GAS, ELECTRIC, TELEPHONE AND CABLE.
 6. FIRE HYDRANTS TO BE PROVIDED AS REQUIRED BY THE EAST GREENWICH FIRE DEPT.
 7. TYPICAL HOME TO BE 3 OR 4 BEDROOM, TWO STORY WITH TWO CAR GARAGE.
 8. THERE ARE NO OUTDOOR ACTIVE RECREATION AREAS PROPOSED.
 9. PROPOSED ROAD SHALL BE PUBLIC WITH A 44' RIGHT OF WAY AND 24' PAVEMENT WIDTH. MINIMUM CENTERLINE RADIUS = 250'. NO SIDEWALKS ARE PROPOSED.
 10. ALL STORMWATER DISCHARGES SHALL BE EITHER INFILTRATED OR DIRECTED TO THE ON-SITE DRAINAGE BASINS. BASIN OVERFLOW SHALL BE TO THE ON-SITE WETLANDS. THERE WILL BE NO NET INCREASE IN RUNOFF.
 11. A DEM FRESHWATER WETLANDS PERMIT WILL BE REQUIRED. ALL SITE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THIS PERMIT.
 12. A RIDEM OWS SUBDIVISION SUITABILITY DETERMINATION WILL BE REQUIRED.
 13. STONE WALLS DISTURBED BY SITE CONSTRUCTION SHALL BE REBUILT ALONG STREET AND PROPERTY LINES.

LEGEND

-----	EXIST. STONE WALL	○	PROP. CATCH BASIN
○	EXIST. UTILITY POLE	-----	EDGE OF RIVER
---120---	EXIST. CONTOUR	-----	FLAGGED WETLAND EDGE
-----	WATER LINE	-----	LIMIT OF FLOODWAY
-----	DRAIN LINE	-----	50' PERIMETER WETLAND
-----	GAS LINE	-----	200' RIVERBANK WETLAND
-----	EXIST. TREE LINE	-----	LIMIT OF DISTURBANCE

REVISION

DATE	10-21-14
REVISION	5-21-15
REVISION	7-28-15

SCOTT MOOREHEAD
 REGISTERED PROFESSIONAL ENGINEER
 No. 4298

OWNER AND APPLICANT
BARBARA A. PINE
 136 DANIEL AVENUE
 GUILDFORD, CT 06437
 203-530-8350

FRENCHTOWN PLACE
 RESIDENTIAL CLUSTER SUBDIVISION
 MAP 29 A.P. 18 LOT 60
 POLE 3B FRENCHTOWN ROAD
 EAST GREENWICH, RI

OVERALL SITE PLAN

S.F.M. ENGINEERING ASSOCIATES
 410 TIGOLE AVENUE
 COVENTRY, RI 02816
 PHONE: 401-826-3736
 FAX: 401-826-1711
 SCOTT@SFM.NECO.MAIL.COM

DRN. BY: LBC
 CHK. BY: SFM
 DATE: JUNE 4, 2014
 DWG: SFM7880SP-B
 SHEET 1 OF 14
 PRELIMINARY SUBMISSION

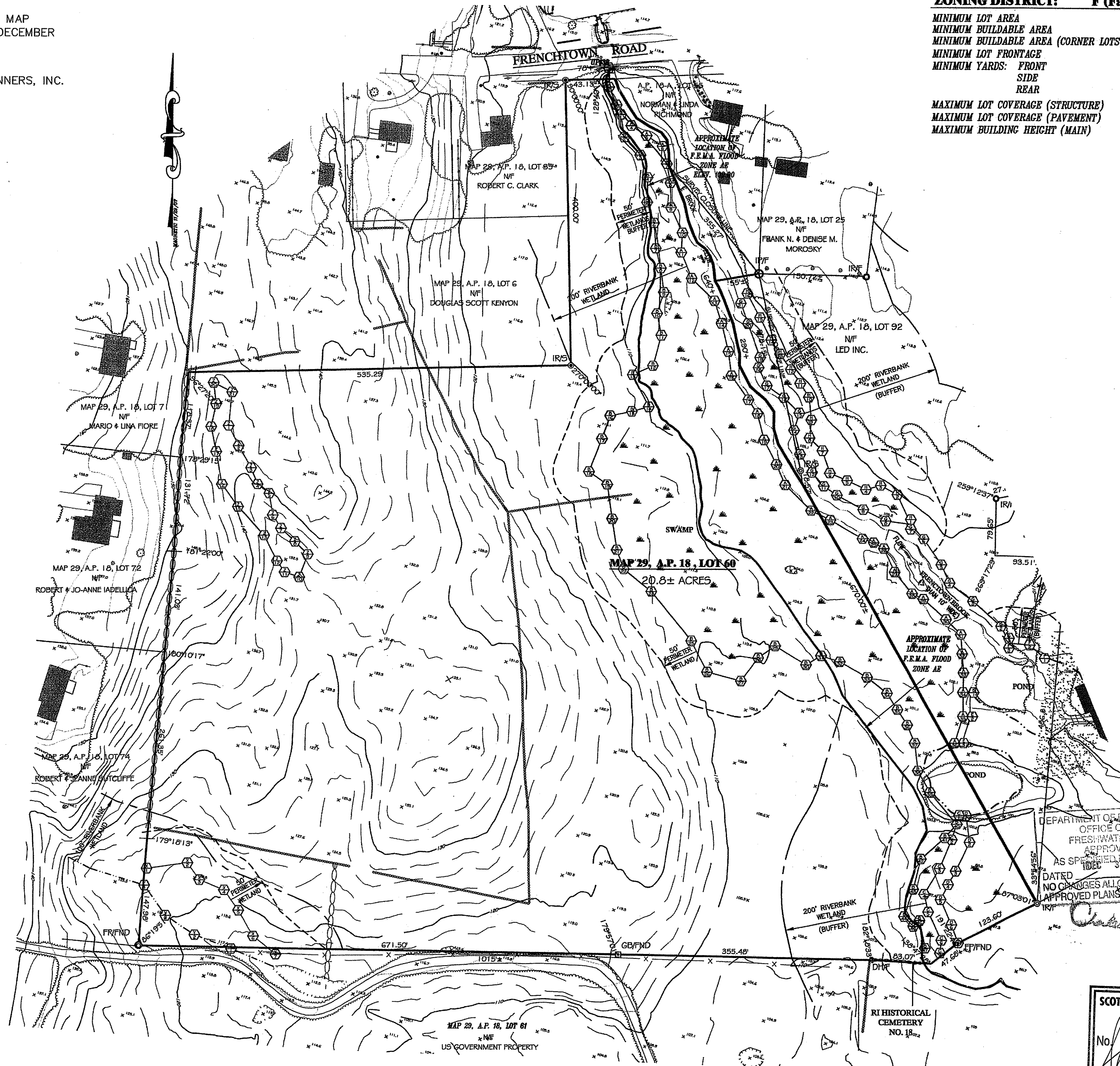
SFM

Aug 28 2014

C1

NOTE:

1. THIS SITE IS LOCATED IN A FLOOD HAZARD ZONE. REFERENCE FEMA MAP COMMUNITY PANELS #44003C0138G AND #44003C0251G, EFFECTIVE: DECEMBER 2, 2010.
2. THE WETLANDS LOCATED ON THIS PROPERTY WERE FLAGGED IN THE FIELD BY DAVID DURANLEAU, WETLAND BIOLOGIST, OCEAN STATE PLANNERS, INC. AND VERIFIED BY RIDEM (SEE APPLICATION 09-0227).



ZONING DISTRICT: F (Farming)

MINIMUM LOT AREA	1 ac.
MINIMUM BUILDABLE AREA	16,710 sq. ft.
MINIMUM BUILDABLE AREA (CORNER LOTS)	12,024 sq. ft.
MINIMUM LOT FRONTAGE	150 ft.
MINIMUM YARDS: FRONT	60 ft.
SIDE	30 ft.
REAR	45 ft.
MAXIMUM LOT COVERAGE (STRUCTURE)	25 %
MAXIMUM LOT COVERAGE (PAVEMENT)	60 %
MAXIMUM BUILDING HEIGHT (MAIN)	35 ft.

FRESHWATER WETLANDS APPLICATION

EXISTING CONDITIONS PLAN
 "FRENCHTOWN PLACE"
 MAP 29 A.P. 18, LOT 60
 FRENCHTOWN ROAD
 EAST GREENWICH, RHODE ISLAND
 Prepared For:
 BARBARA PINE

LEGEND

- | | |
|----------------|------------------------|
| UP#36 | UTILITY POLE |
| WETLAND FLAG | WETLAND FLAG |
| WETLAND SYMBOL | WETLAND SYMBOL |
| IR/F | IRON ROD FOUND |
| GB/F | GRANITE BOUND FOUND |
| FP/F | FENCE POST FOUND |
| IP/F | IRON PIPE FOUND |
| DH/F | DRILL HOLE FOUND |
| IR/S | IRON ROD SET |
| MBA | MINIMUM BUILDABLE AREA |

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LISTED PERMITS
 DATED 10/23/10 FILE # 14-0188
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION

SCOTT F. MOOREHEAD
 No. 1298
 REGISTERED PROFESSIONAL ENGINEER

RICHARD T. BZYRA
 No. 1785
 REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEY CLASSIFICATION:
 THIS SURVEY AND PLAN CONFORM TO A CLASS "11" STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
 BY: RICHARD T. BZYRA, R.P.L.S. DATE: 5/05/15

Ocean State Planners, Inc.
 SURVEYORS • DESIGNERS
 1255 OAKLAWN AVENUE CRANSTON, RI 02920
 PHONE (401) 463-9696 FAX (401) 463-9039

REVISION:
 MAY 1, 2015
 DATE: JULY 31, 2014
 DRAWN BY: DCD
 SCALE: 1" = 80'
 GRAPHIC SCALE
 SHEET
2
 OF 14 SHEETS
 JOB NO. 7547
 DWG. NO. 7547 - FWW

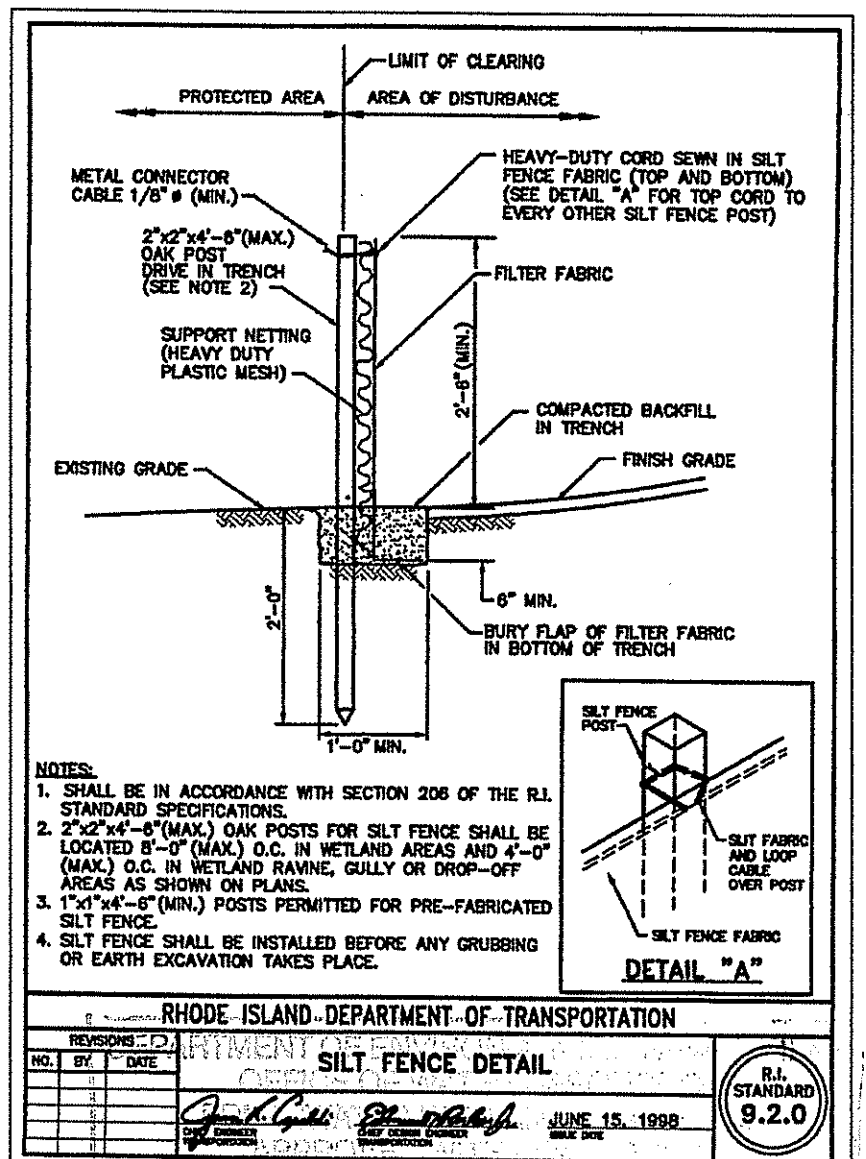
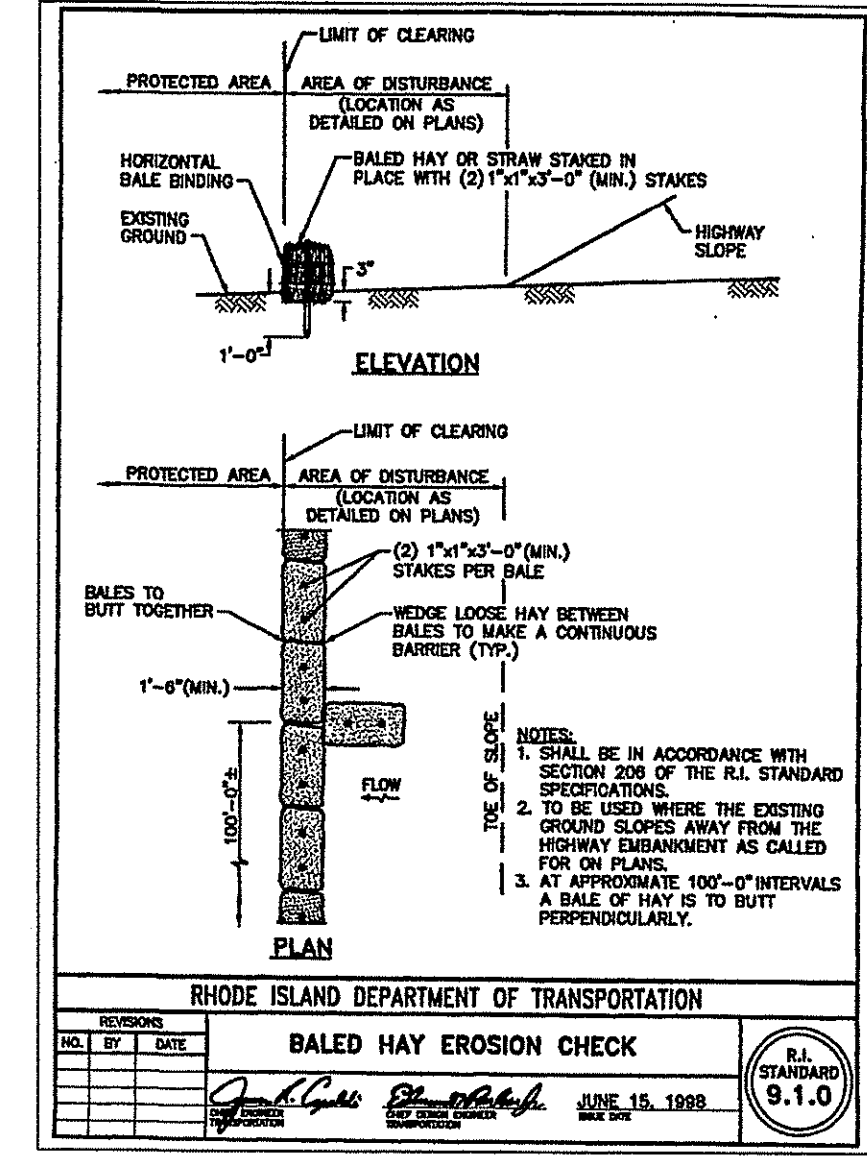
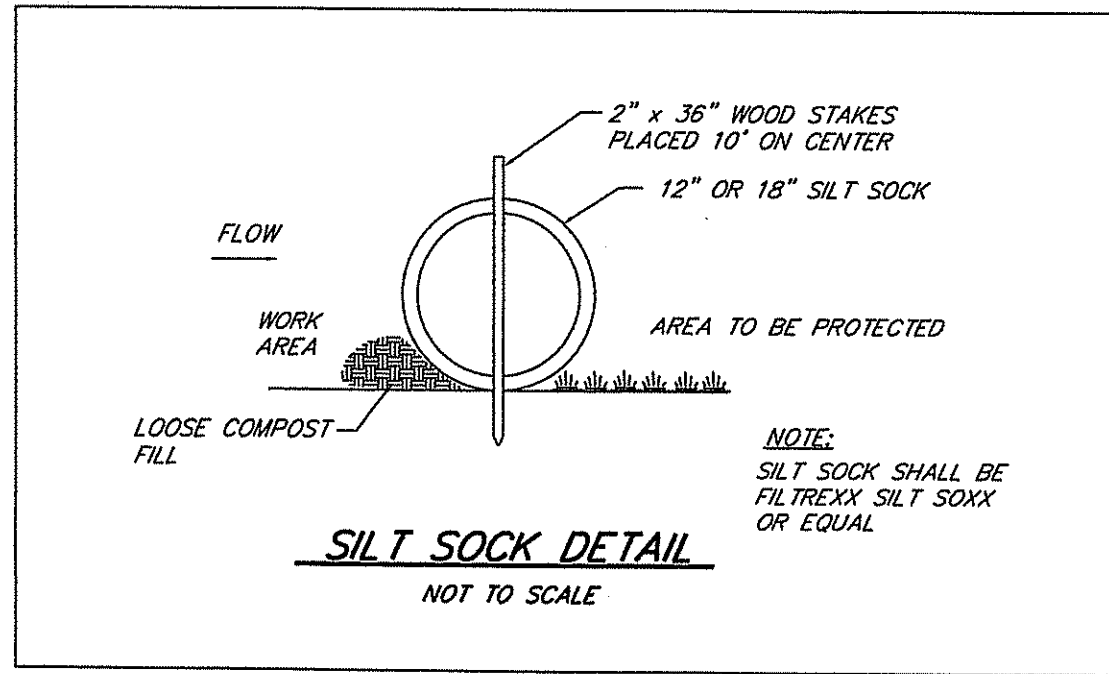
OCEAN STATE PLANNERS INC. COPYRIGHTED MATERIALS 2001

GENERAL NOTES

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- WETLANDS DELINEATION PERFORMED BY OCEAN STATE PLANNERS, INC. AND VERIFIED BY RIVER FRESHWATER WETLAND APPL. NO. 09-0227.
- THERE IS A 100 YEAR FLOOD HAZARD ZONE AS ASSOCIATED WITH FRENCHTOWN BROOK FEMA FLOOD INSURANCE RATE MAPS 4400301350 AND 4400302510 DATED DEC. 3, 2010. AREAS OUTSIDE THIS FLOOD ZONE ARE IN FLOOD HAZARD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. FLOOD ELEVATIONS HAVE BEEN CONVERTED FROM NAVD88 TO NGVD29 DATUM.
- STRAW BALE, SILT SOCK OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AND MAINTAINED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE FOR ROAD AND SITE DISTURBANCE PRIOR TO CONSTRUCTION OR EXCAVATION.
- ROOF INFILTRATION AREAS AND BIO-RETENTION AREAS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROTECTED WITH BARRIERS TO PREVENT COMPACTION OF THESE AREAS.
- SEE ADDITIONAL EROSION CONTROL DETAILS AND NOTES ON SHEETS C10. SEE SHEET C9 FOR EROSION CONTROL MEASURES FOR FRENCHTOWN ROAD CULVERT EXTENSION.
- A CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE CLEARING. ALL TRUCK TRAFFIC MUST ENTER AND EXIT OVER THE ENTRANCE PAD. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE ROADWAY IS READY FOR PAVING.
- THE TOTAL AREA OF SITE DISTURBANCE IS APPROXIMATELY 8.8 ACRES. THE INITIAL PHASE OF CONSTRUCTION WILL ONLY INCLUDE SITE WORK FOR THE ROADWAY AND DRAINAGE INSTALLATION WHICH WILL INVOLVE APPROXIMATELY 4.5 ACRES OF SITE DISTURBANCE. LOT CONSTRUCTION WILL NOT COMMENCE UNTIL THE ROAD HAS BINDER PAVEMENT AND DRAINAGE BASINS ARE COMPLETE AND STABILIZED.
- PRIOR TO THE START OF EXCAVATION FOR ROADWAY CONSTRUCTION, THE SEDIMENT FOREBAYS OR UPGRADIENT ADJACENT AREAS SHALL BE EXCAVATED AND STABILIZED TO BE USED AS TEMPORARY SEDIMENT TRAPS WITH STONE OVERFLOW WEIRS. DURING ROADWAY EXCAVATION AND GRADING, RUNOFF SHALL BE DIRECTED TO THESE TEMPORARY SEDIMENT TRAPS. OVERFLOW FROM THE SEDIMENT FOREBAY/TRAP AREAS SHALL NOT BE DIRECTED TO THE BIO-RETENTION AREAS OR DETENTION BASINS UNTIL THOSE AREAS ARE FULLY STABILIZED WITH VEGETATION. DISTURBED AREAS DRAINING TO ANY TEMPORARY SEDIMENT TRAP SHALL BE KEPT TO LESS THAN ONE ACRE. SEDIMENT TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.25" OR GREATER. ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN THEY REACH A DEPTH OF 12" AND THE TRAP SHALL BE RESTORED TO IT'S ORIGINAL DIMENSIONS. WHEN THE BIO-RETENTION AREAS AND DETENTION BASINS ARE COMPLETE AND STABILIZED, THE SEDIMENT TRAPS SHALL BE CONVERTED TO PERMANENT SEDIMENT FOREBAYS.
- INDIVIDUAL LOT CONSTRUCTION SHALL REQUIRE APPLICATION AND APPROVAL OF A LOT SPECIFIC SOIL AND EROSION CONTROL PLAN IN ACCORDANCE WITH THE TOWN'S SOIL AND EROSION CONTROL ORDINANCE PRIOR TO ANY SOIL DISTURBANCE.
- THE SITE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION CONTROLS ALONG THE FLOW PATH TO THE TEMPORARY SEDIMENT TRAPS TO REDUCE FLOW VELOCITY AND TO PREVENT EXCESS SEDIMENT TRANSPORT. SUCH CONTROLS SHALL INCLUDE DIVERSION BERMS, STRAW BALES, SILT SOCKS, DITCH EROSION CHECKS AND TEMPORARY GROUND COVERS AS NOTED ON SHEET C10.

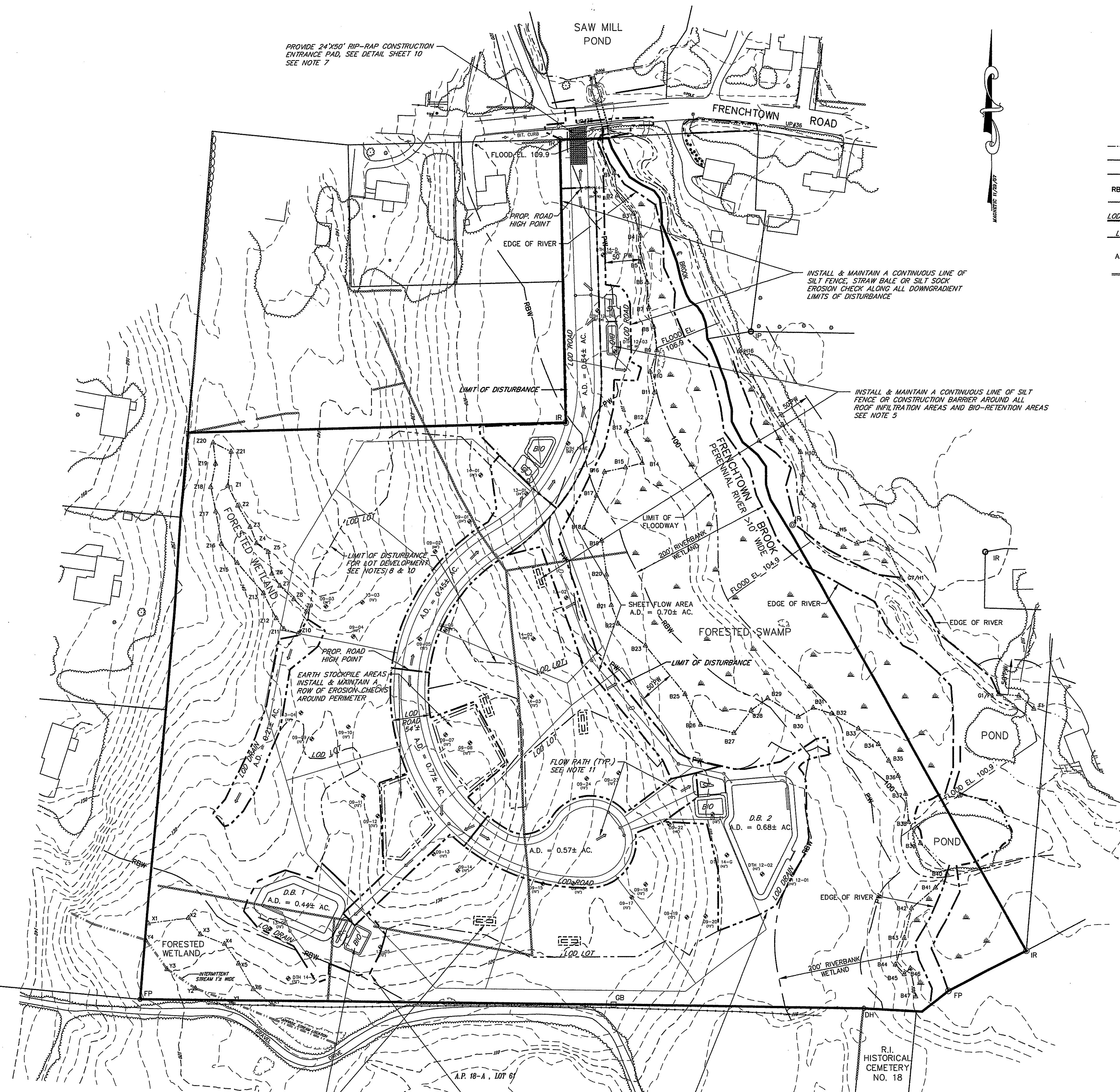
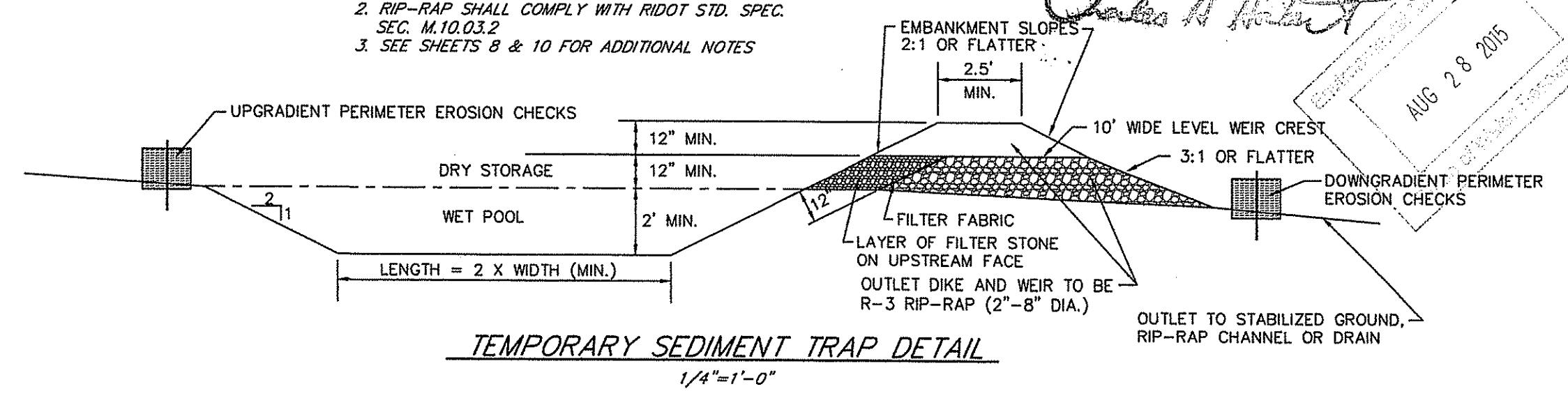
LEGEND

- EXIST. STONE WALL
- EXIST. UTILITY POLE
- EXIST. CONTOUR
- WATER LINE
- DRAIN LINE
- GAS LINE
- EXIST. TREE LINE
- WETLAND EDGE
- LIMIT OF FLOODWAY
- PW 50' PERIMETER WETLAND
- RBW RIVERBANK WETLAND
- E.R. EDGE OF RIVER
- LOD ROAD LOD DRAIN LIMIT OF DISTURBANCE FOR ROAD & DRAIN CONSTRUCTION
- LOD LOT LIMIT OF DISTURBANCE FOR LOT DEVELOPMENT
- A.D. = 0.21± AC. DRAINAGE AREA/DISTURBANCE FOR TEMP. SEDIMENT CONTROL
- OVERLAND FLOW DIRECTION



NOTES

- FILTER STONE SHALL COMPLY WITH RIDOT STD. SPEC. SEC. M10.03 TABLE 1, COL. V
- RIP-RAP SHALL COMPLY WITH RIDOT STD. SPEC. SEC. M10.03.2
- SEE SHEETS 8 & 10 FOR ADDITIONAL NOTES



INSTALL & MAINTAIN A CONTINUOUS LINE OF SILT FENCE OR CONSTRUCTION BARRIER AROUND ALL ROOF INFILTRATION AREAS AND BIO-RETENTION AREAS SEE NOTE 5

INSTALL & MAINTAIN A CONTINUOUS LINE OF SILT FENCE, STRAW BALE OR SILT SOCK EROSION CHECK ALONG ALL DOWNGRADIENT LIMITS OF DISTURBANCE

INSTALL & MAINTAIN A CONTINUOUS LINE OF SILT FENCE, STRAW BALE OR SILT SOCK EROSION CHECK ALONG ALL DOWNGRADIENT LIMITS OF DISTURBANCE

INSTALL & MAINTAIN A CONTINUOUS LINE OF SILT FENCE OR CONSTRUCTION BARRIER AROUND ALL ROOF INFILTRATION AREAS AND BIO-RETENTION AREAS SEE NOTE 5

LIMIT OF DISTURBANCE FOR LOT DEVELOPMENT SEE NOTES 8 & 10

EARTH STOCKPILE AREAS INSTALL & MAINTAIN A ROW OF EROSION CHECKS AROUND PERIMETER

D.B. 1 A.D. = 0.44± AC

D.B. 2 A.D. = 0.68± AC

R.I. HISTORICAL CEMETERY NO. 18

A.P. 18-A, LOT 61

PROVIDE 24\"/>

REVISION	DATE	DESCRIPTION
1	5-21-15	WETLANDS COMMENTS
2	6-29-15	DRAINAGE AREAS FOR TEMP. SEDIMENT CONTROL
3	7-29-15	WETLAND FLAGS

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
NO. 4298
STATE OF CONNECTICUT

OWNER AND APPLICANT
BARBARA A. PINE
135 DANIEL AVENUE
GUILFORD, CT 06437
203-530-8350

FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NEOMAIL.COM

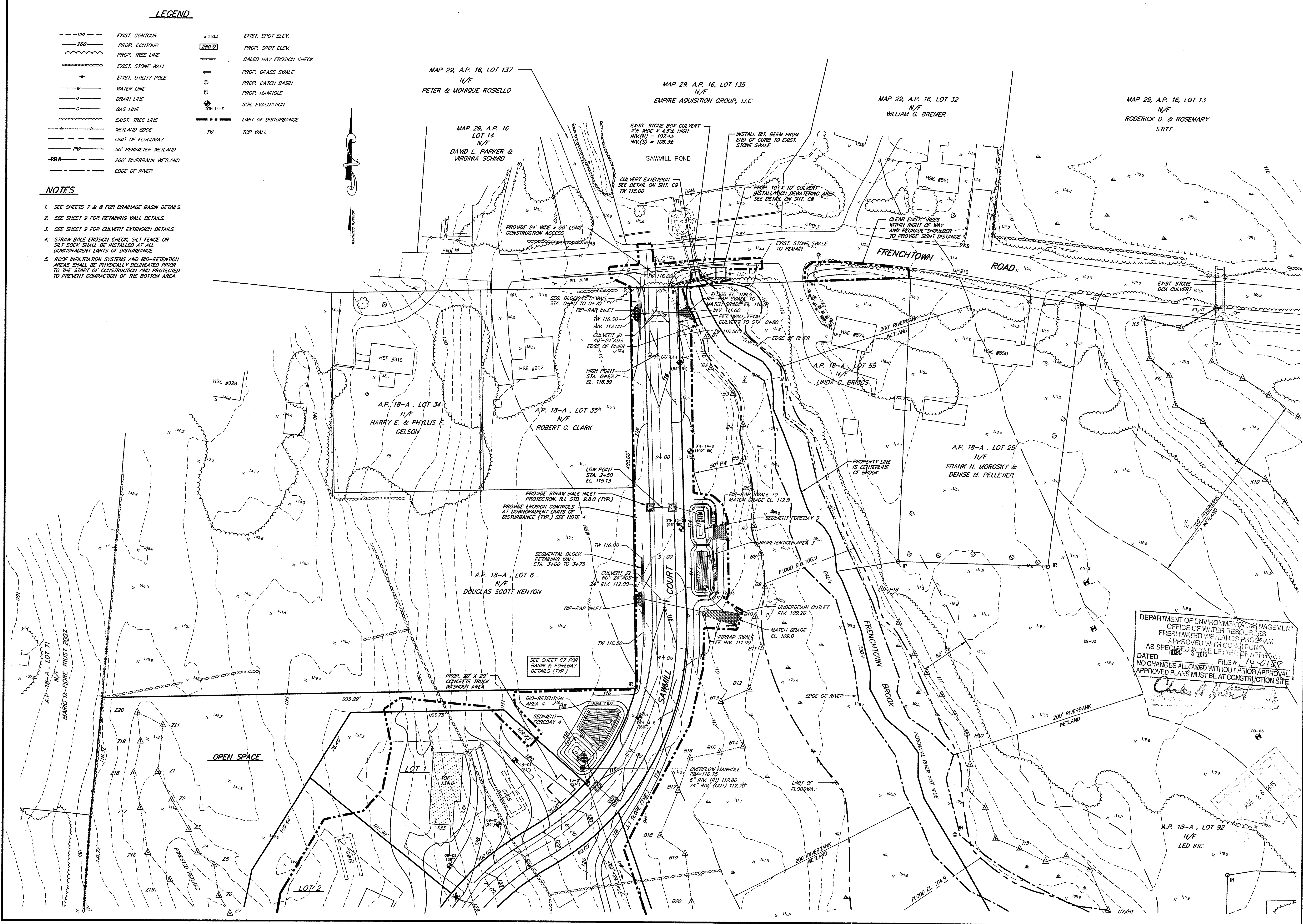
SFM
DRN. BY: LBC
CHK. BY: SFM
SCALE: 1" = 80'
DATE: MAY 21, 2015
DWG: SFM788CP-B
SHEET 3 OF 14
PRELIMINARY SUBMISSION

LEGEND

- 120 --- EXIST. CONTOUR
 - 260 --- PROP. CONTOUR
 - PROP. TREE LINE
 - EXIST. STONE WALL
 - EXIST. UTILITY POLE
 - WATER LINE
 - DRAIN LINE
 - GAS LINE
 - EXIST. TREE LINE
 - WETLAND EDGE
 - LIMIT OF FLOODWAY
 - PW --- 50' PERIMETER WETLAND
 - RBW --- 200' RIVERBANK WETLAND
 - EDGE OF RIVER
- x 253.3 EXIST. SPOT ELEV.
 - 280.0 PROP. SPOT ELEV.
 - BALED HAY EROSION CHECK
 - PROP. GRASS SWALE
 - PROP. CATCH BASIN
 - PROP. MANHOLE
 - SOIL EVALUATION
 - LIMIT OF DISTURBANCE
 - TW --- TOP WALL

NOTES

1. SEE SHEETS 7 & 8 FOR DRAINAGE BASIN DETAILS.
2. SEE SHEET 9 FOR RETAINING WALL DETAILS.
3. SEE SHEET 9 FOR CULVERT EXTENSION DETAILS.
4. STRAW BALE EROSION CHECK, SILT FENCE OR SILT SOCK SHALL BE INSTALLED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE.
5. ROOF INFILTRATION SYSTEMS AND BIO-RETENTION AREAS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION AND PROTECTED TO PREVENT COMPACTION OF THE BOTTOM AREA.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 3 2015 FILE # 14-0188
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles H. Hest

REVISION	DATE	DATE	DATE
10-21-14	5-11-15	7-28-15	
WETLANDS COMMENTS	WETLANDS COMMENTS	WETLANDS COMMENTS	WETLANDS COMMENTS

SCOTT F. MOOREHEAD
 REGISTERED PROFESSIONAL ENGINEER

OWNER AND APPLICANT
 BARBARA A. PINE
 136 DANIEL AVENUE
 GUILFORD, CT 06437
 203-530-8350

FRENCHTOWN PLACE
 RESIDENTIAL CLUSTER SUBDIVISION
 MAP 29 A.P. 18 LOT 60
 POLE 38 FRENCHTOWN ROAD
 EAST GREENWICH, RI

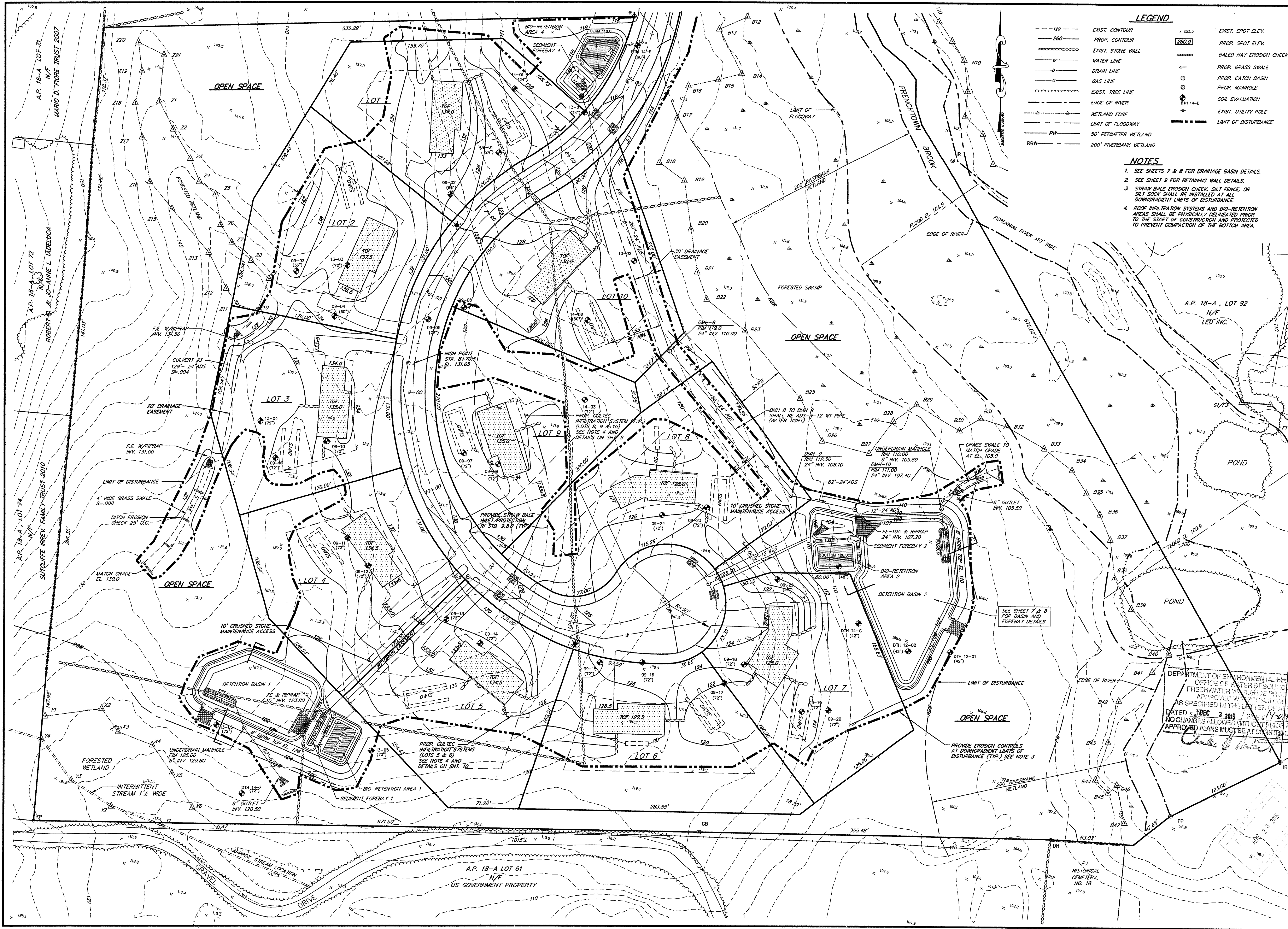
GRADING & DRAINAGE PLAN - 1

S.F.M. ENGINEERING ASSOCIATES
 410 TIGUE AVENUE
 COVENTRY, RI 02816
 PHONE: 401-826-3736
 FAX: 401-826-1711
 SCOTT@SFM.ENGMAIL.COM

SFM

DRN. BY: LBC
 CHK. BY: SFM
 SCALE: 1" = 40'
 DATE: JUNE 4, 2014
 DWG: SFM788-GP1-B
 SHEET 4 OF 14

PRELIMINARY SUBMISSION **C4**



LEGEND

---120---	EXIST. CONTOUR	x 253.3	EXIST. SPOT ELEV.
---260---	PROP. CONTOUR	260.0	PROP. SPOT ELEV.
---	EXIST. STONE WALL	---	BALED GRASS EROSION CHECK
---	WATER LINE	---	PROP. GRASS SWALE
---	DRAIN LINE	---	PROP. CATCH BASIN
---	GAS LINE	---	PROP. MANHOLE
---	EXIST. TREE LINE	---	SOIL EVALUATION
---	EDGE OF RIVER	---	EXIST. UTILITY POLE
---	WETLAND EDGE	---	LIMIT OF DISTURBANCE
---	LIMIT OF FLOODWAY	---	
PW---	50' PERIMETER WETLAND		
RBW---	200' RIVERBANK WETLAND		

- NOTES**
- SEE SHEETS 7 & 8 FOR DRAINAGE BASIN DETAILS.
 - SEE SHEET 9 FOR RETAINING WALL DETAILS.
 - STRAW BALE EROSION CHECK, SILT FENCE, OR SILT SOCK SHALL BE INSTALLED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE.
 - ROOF INFILTRATION SYSTEMS AND BIO-RETENTION AREAS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION AND PROTECTED TO PREVENT COMPACTION OF THE BOTTOM AREA.

DATE	5-17-15	REVISION	
	7-29-15		

INTERMITTENT STREAM & DRAINAGE PER DEM COMMENTS
WETLAND FLAGS, PERIMETER WETLAND

SCOTT E. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 14296

OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILFORD, CT 06437
203-530-8350

FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

GRADING & DRAINAGE PLAN - 2

S.F.M. ENGINEERING ASSOCIATES
410 TIGUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NECOMAIL.COM

SFM

DRN. BY: LBC
CHK. BY: SFM
SCALE: 1" = 40'
DATE: JUNE 4, 2014
DWG: SFM788-GP2-B
SHEET 5 OF 14
PRELIMINARY SUBMISSION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WATERSHEDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 3 2013 / FILE # 14-0188
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BEAT CONSTRUCTION

SEE SHEET 7 & 8 FOR BASIN AND FOREBAY DETAILS

PROVIDE EROSION CONTROLS AT DOWNGRADIENT LIMITS OF DISTURBANCE (TYP.) SEE NOTE 3

PROVIDE STRAW BALE EROSION CHECK, PROTECTION AT STD. 9.8.0 (TYP.)

DMH 8 TO DMH 9 SHALL BE ADS-12 WT PIPE (WATER TIGHT)

CULVERT #3 120" x 24" ADS S#-004

F.E. WRAP INV. 131.00

F.E. WRAP INV. 131.00

A.P. 18-A LOT 61
N/F
US GOVERNMENT PROPERTY

R.I. HISTORICAL CEMETERY NO. 18

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

A.P. 18-A, LOT 92
N/F
LED INC.

POND

POND

POND

FORESTED WETLAND

FORESTED SWAMP

FORESTED WETLAND

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

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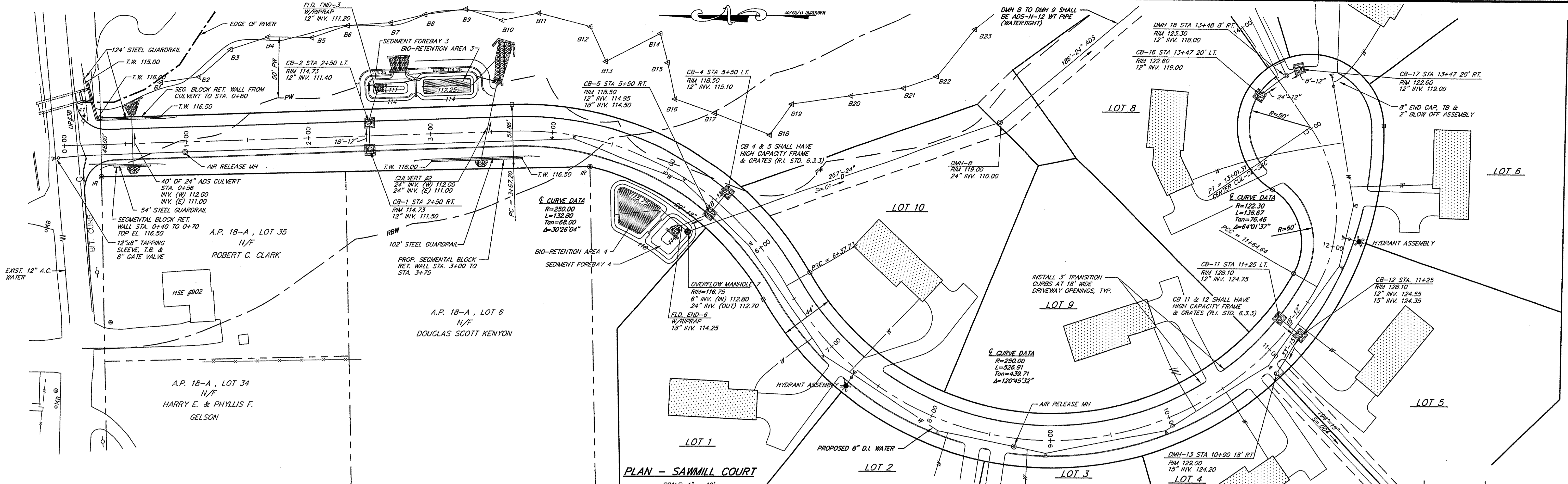
OPEN SPACE

OPEN SPACE

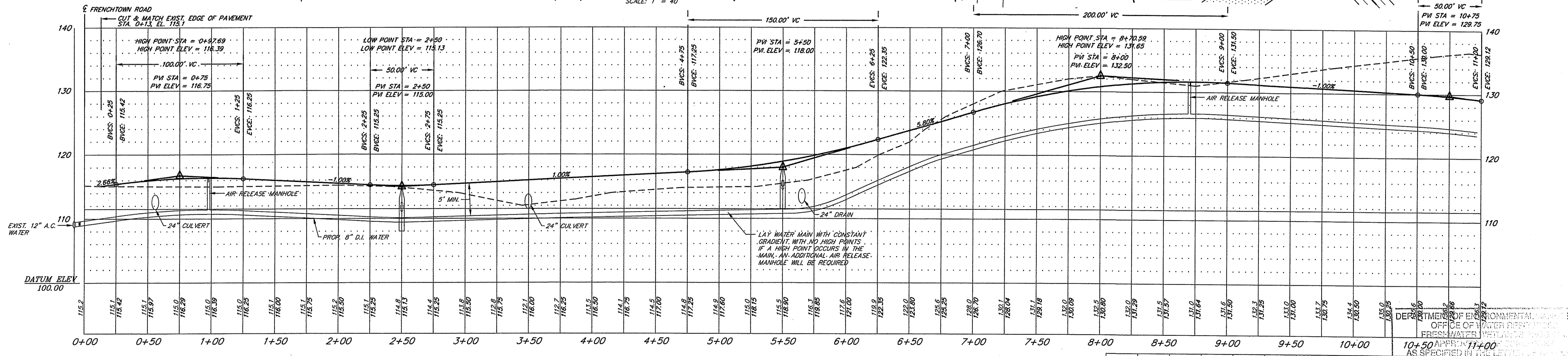
OPEN SPACE

OPEN SPACE

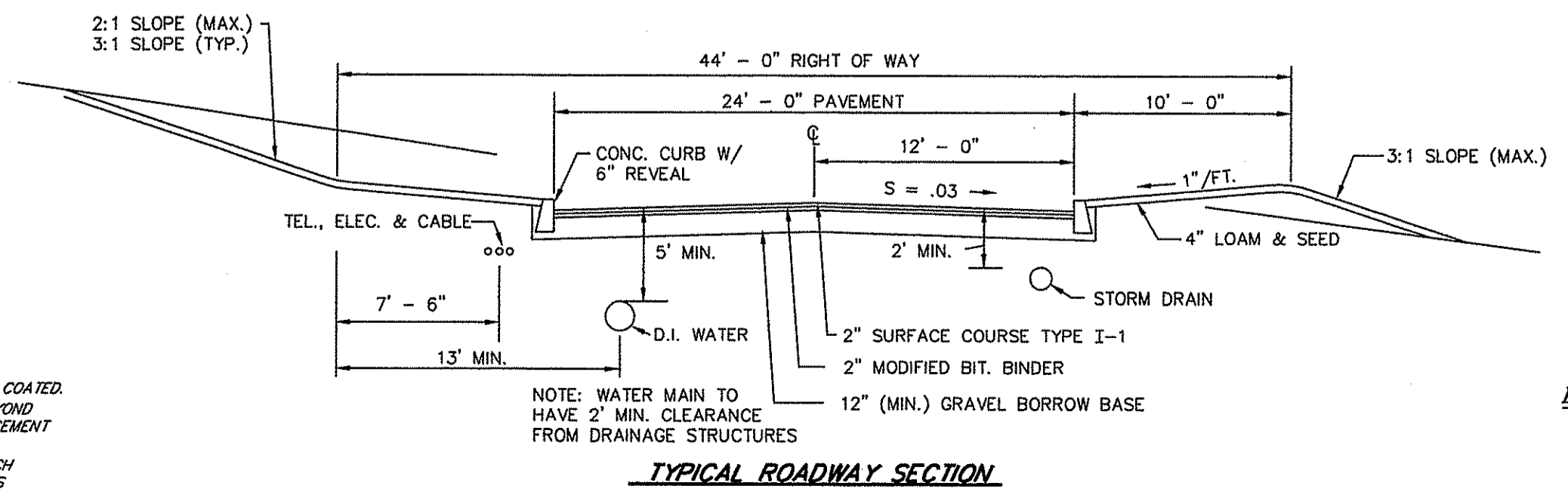
OPEN SPACE



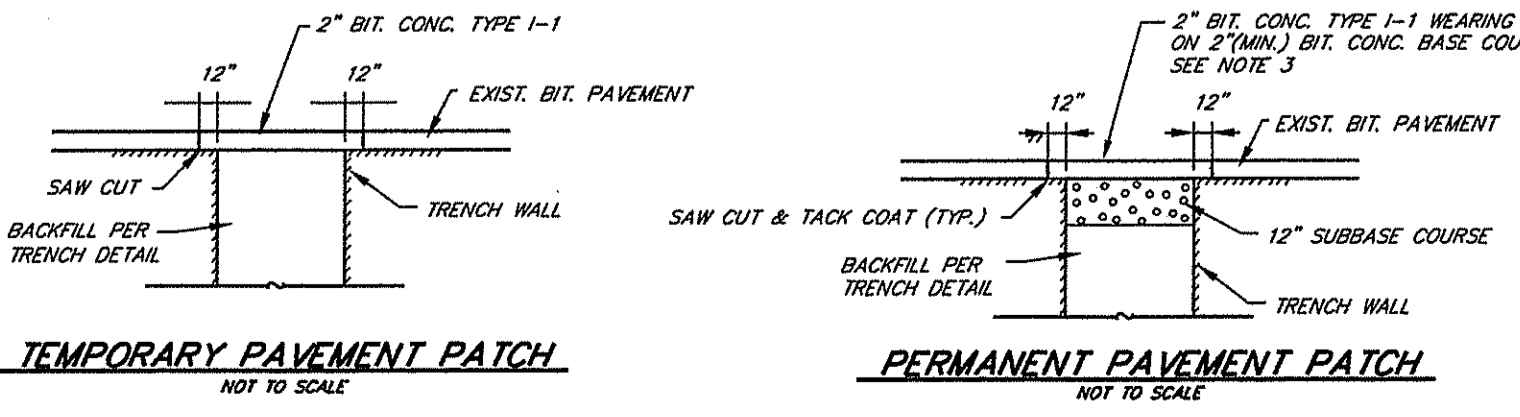
PLAN - SAWMILL COURT
SCALE: 1" = 40'



PROFILE - SAWMILL COURT
SCALE: HOR. 1" = 40'
VERT. 1" = 8'



TYPICAL ROADWAY SECTION
SCALE: 3/16" = 1'-0"



NOTE:
1. ALL PAVEMENT EDGES SHALL BE TACK COATED.
2. RESURFICED EXIST. BIT. PAVMT. 12" BEYOND ACTUAL TRENCH WIDTH PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
3. TOTAL PAVMT. THICKNESS SHALL MATCH EXIST. PAVMT. OR BE 4" WHICHEVER IS GREATER.

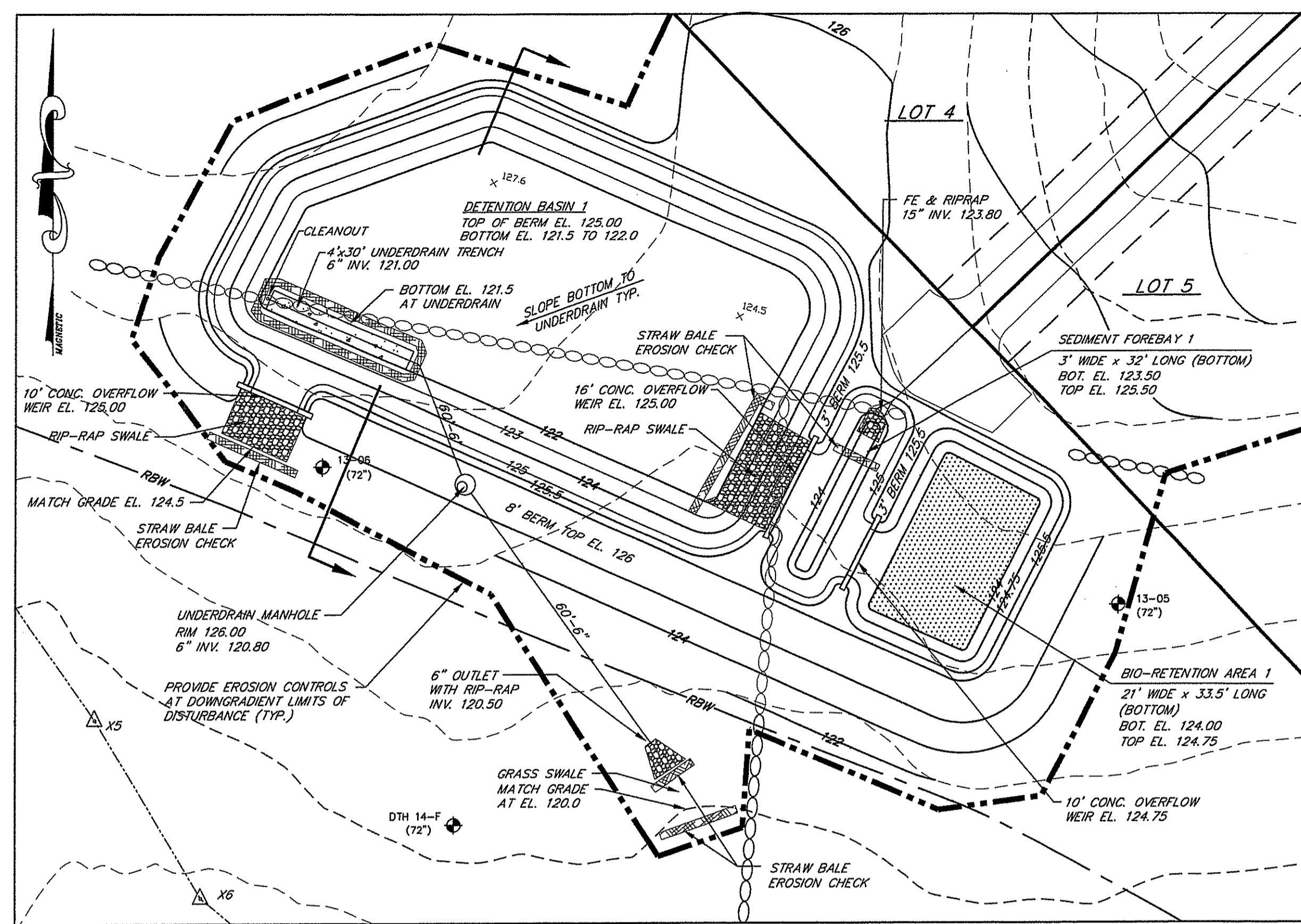
REVISION	DATE	BY	DESCRIPTION
1	5-27-15	DEM	REVISED COMMENTS
2	7-28-15	DEM	RIVER EDGE, PIPE SIZE CB-12

OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILFORD, CT 06437
203-530-8350

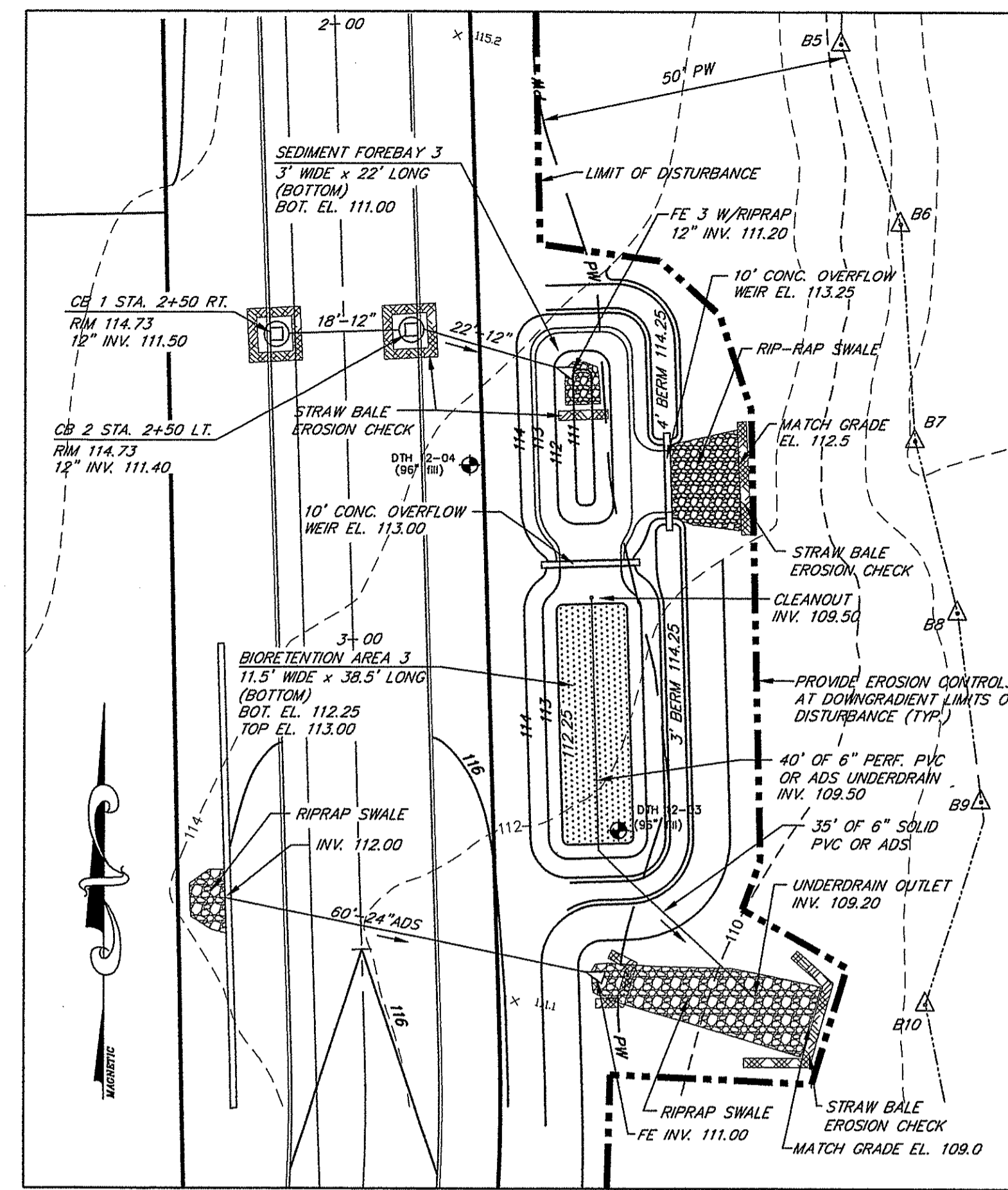
FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-5736
FAX: 401-826-1711
SCOTT@SFM.NECCOMAIL.COM

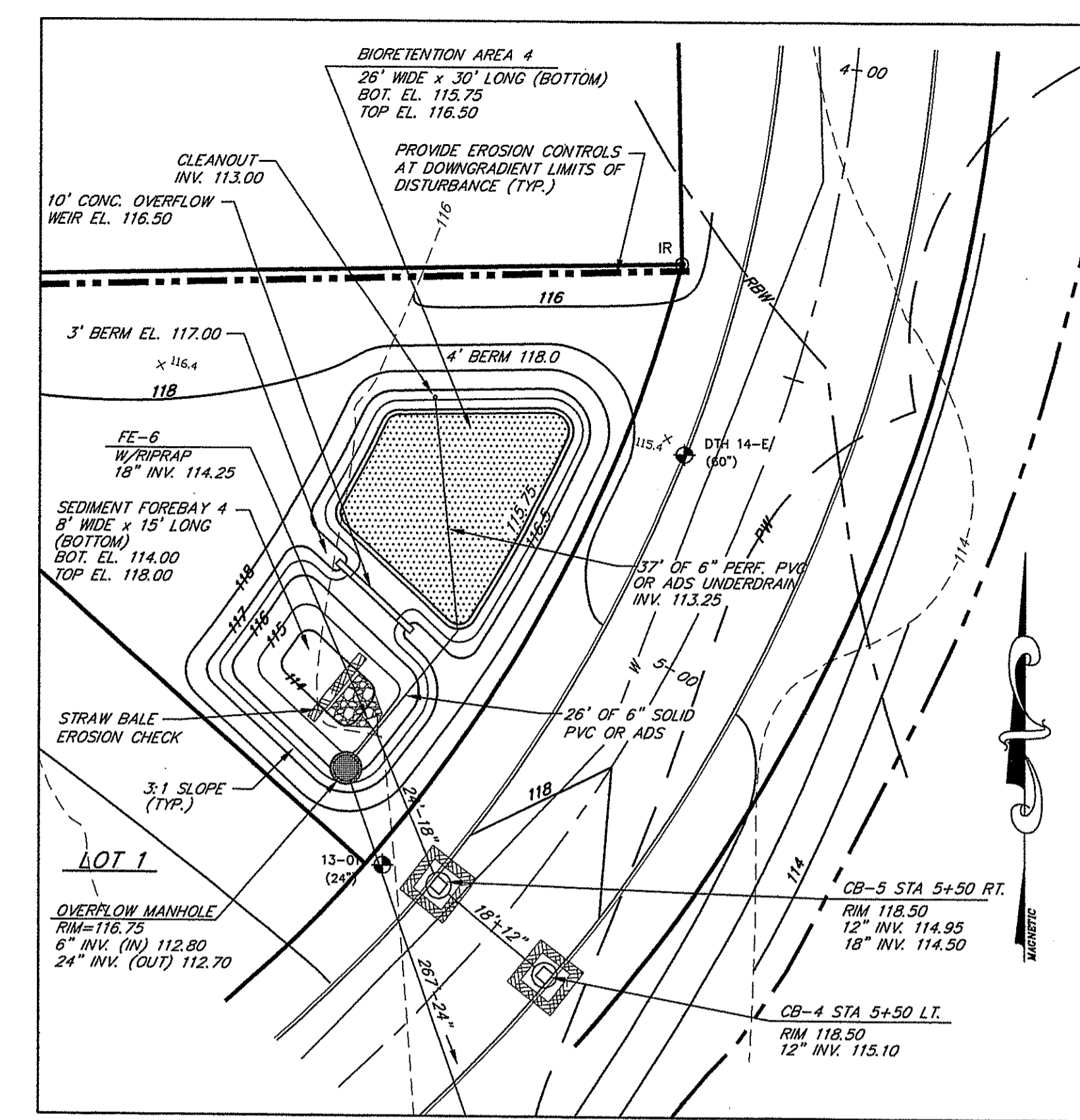
DRN. BY: LBC
CHK. BY: SFM
SCALE: AS NOTED
DATE: JUNE 4, 2014
DWG: SFM788PP-B
SHEET 6 OF 14
PRELIMINARY SUBMISSION



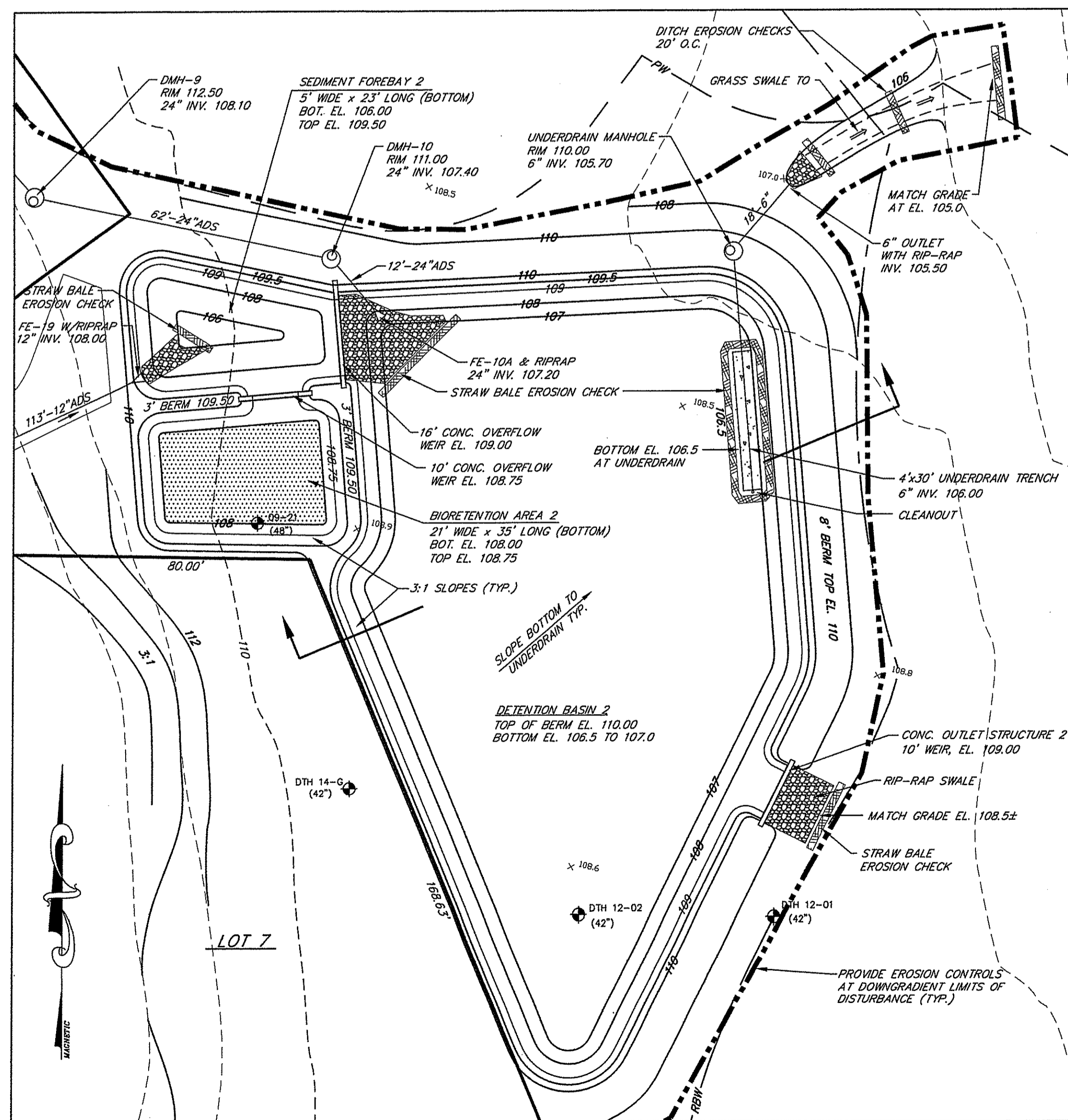
DETENTION BASIN AREA - 1
SCALE: 1" = 20'



BIO-RETENTION AREA - 3
SCALE: 1" = 20'



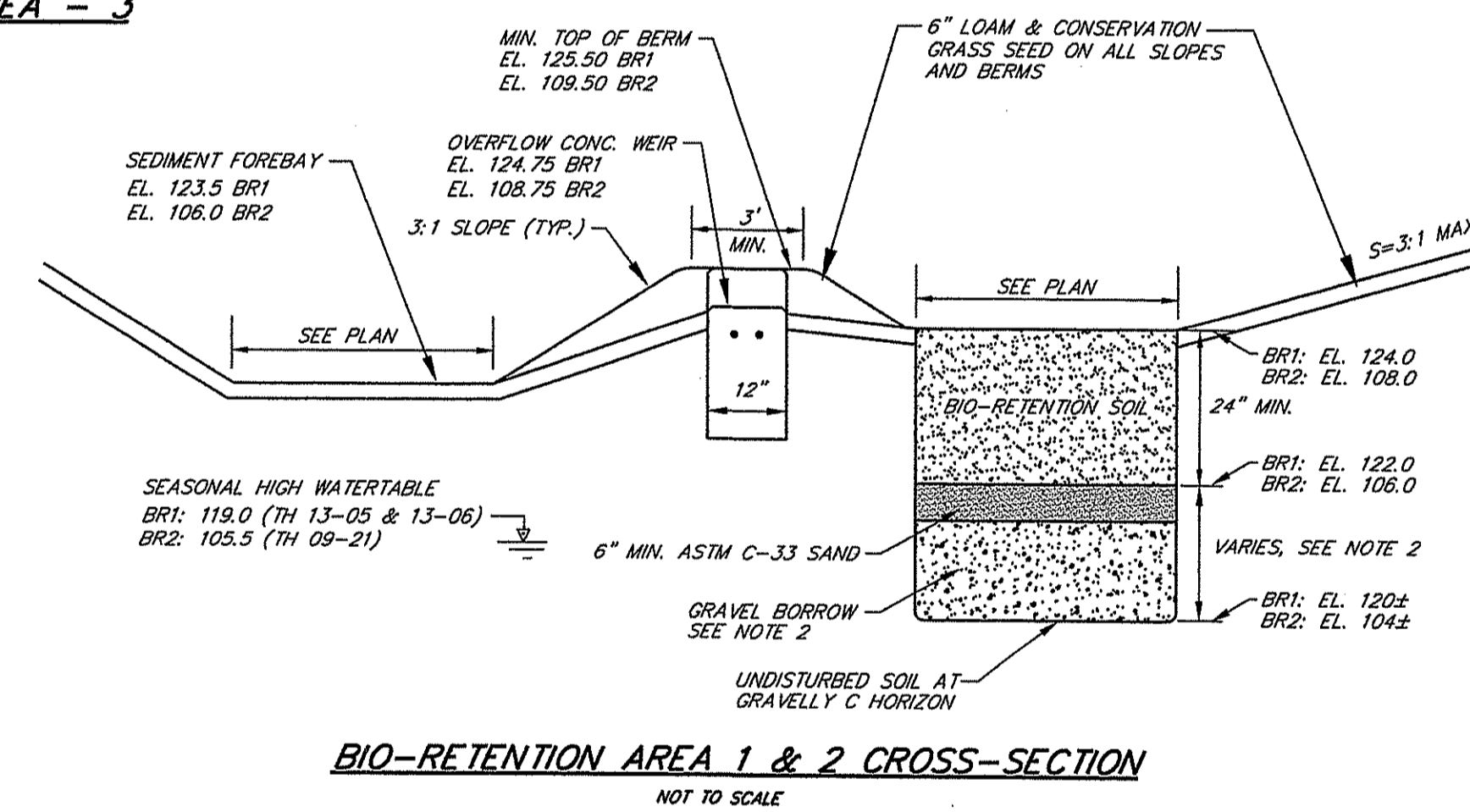
BIO-RETENTION AREA - 4
SCALE: 1" = 20'



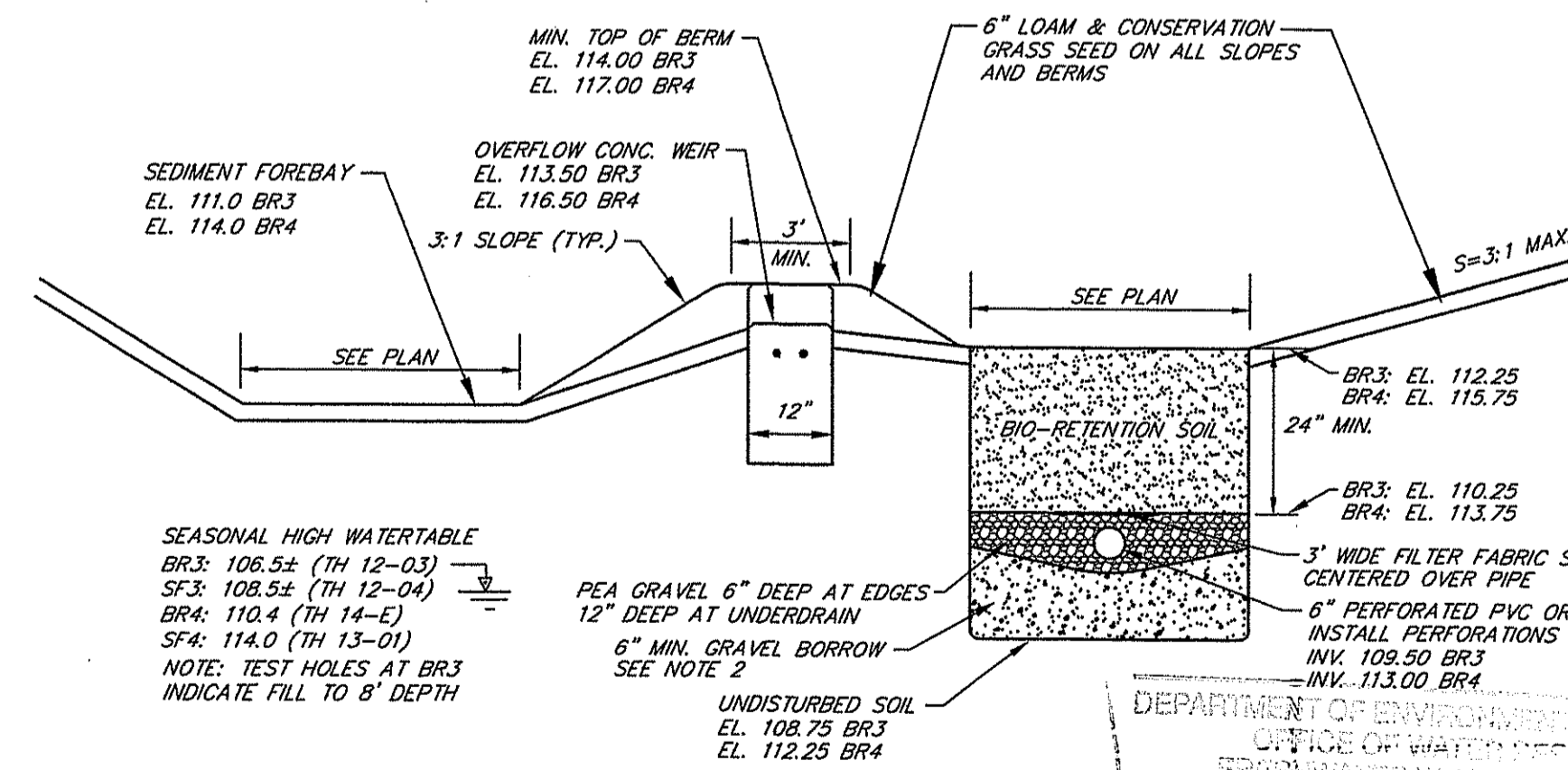
DETENTION BASIN AREA - 2
SCALE: 1" = 20'

STORMWATER SYSTEM - DIMENSION TABLE

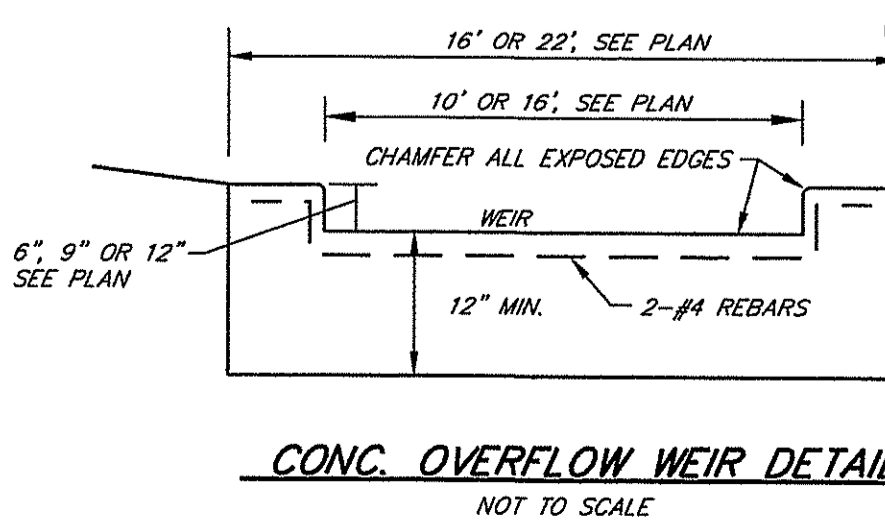
SYSTEM	COMPONENT	ELEV. (FT.)	AREA (S.F.)	COMBINED AREA	OUTLET DATA
1	SED. FOREBAY	123.5	95	BIO-RET+ FOREBAY+ DET. BASIN	16" CONC. OVERFLOW WEIR EL. 125.00
		124	205		
		125	550		
		125.5	670		
		126.5	700		
BIO-RET.	DET. BASIN 1	124.0	700	10" CONC. OVERFLOW WEIR EL. 124.75	
		124.75	985		
		126.5	1265		
		121.5	120		
		122	4,345		
2	SED. FOREBAY	106	115	16" CONC. OVERFLOW WEIR EL. 109.00	
		108	630		
		109	1015		
		109.5	1,175		
		109.5	1,175		
BIO-RET.	DET. BASIN 2	108	735	10" CONC. OVERFLOW WEIR EL. 108.75	
		108.75	1,035		
		109.5	1,315		
		106.5	120		
		107	9,880		
3	SED. FOREBAY	111	65	10" CONC. OVERFLOW WEIR EL. 113.25	
		112	245		
		113	530		
		113.25	655		
		114	850		
BIO-RET.	DET. BASIN 2	112.25	440	10" CONC. OVERFLOW WEIR EL. 113.00	
		113	715		
		114	1,055		
		115	295		
		116	535		
4	SED. FOREBAY	114	120	12.57" CONC. OVERFLOW WEIR 4" DIA. H. EL. 116.75	
		115	295		
		116	535		
		116.5	705		
		117	850		
BIO-RET.	DET. BASIN 2	115.75	770	10" CONC. OVERFLOW WEIR EL. 116.50	
		116	850		
		116.5	1,065		
		117	1,240		
		118	2,090		
					2,795



BIO-RETENTION AREA 1 & 2 CROSS-SECTION
NOT TO SCALE



BIO-RETENTION AREA 3 & 4 CROSS-SECTION
NOT TO SCALE



CONC. OVERFLOW WEIR DETAIL
NOT TO SCALE

BIO-RETENTION AREA 1 AND 2 NOTES

- BIO-RETENTION AREAS SHALL BE PROTECTED FROM COMPACTION PRIOR TO AND DURING CONSTRUCTION.
- ALL A, B & C SILT LOAM HORIZONS AND UNSUITABLE MATERIAL IN THE BIO-RETENTION AREA SHALL BE REMOVED TO THE GRAVELLY C HORIZON. GRAVEL BORROW SHALL BE PLACED AND COMPACTED TO THE DESIGN C-33 SAND LAYER BOTTOM ELEVATION. THE BOTTOM OF EXCAVATION MUST BE APPROVED BY SFM ENGINEERING PRIOR TO THE PLACEMENT OF GRAVEL BORROW OR SAND.
- IF DEWATERING IS REQUIRED, PUMP DISCHARGE SHALL BE DIRECTED TO A DEWATERING AREA, SEE DETAIL SHEET 9.
- ASTM C-33 SAND LAYER AND BIO-RETENTION SOIL SHALL BE PLACED TO THE DEPTHS NOTED AND APPROVED BY SFM ENGINEERING.
- BIO-RETENTION AREA AND SLOPES SHALL BE PLANTED AS SPECIFIED ON THE LANDSCAPE ARCHITECT'S PLANS. PLANTINGS SHALL COMPLY WITH APPENDIX B.9.3 OF THE R.I. STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL (DEC. 2010) AS AMENDED.
- BIO-RETENTION AREA PLANTINGS SHALL BE INSTALLED BY A LANDSCAPE CONTRACTOR. SURVIVAL SHALL BE GUARANTEED FOR ONE YEAR.
- BIO-RETENTION SOIL SHALL HAVE A LOAMY SAND TEXTURE AND CONFORM TO THE FOLLOWING GRADATION:
SAND 85 - 88%
SILT 8 - 12%
CLAY 0 - 2%
ORGANIC MATTER 3 - 5%

BIO-RETENTION AREA 3 AND 4 NOTES

- BIO-RETENTION AREAS SHALL BE PROTECTED FROM COMPACTION PRIOR TO AND DURING CONSTRUCTION.
- ALL LOAM, FILL AND UNSUITABLE MATERIAL IN THE BIO-RETENTION AREA SHALL BE REMOVED TO THE DESIGN BOTTOM GRADE. GRAVEL BORROW SHALL BE PLACED AND COMPACTED TO THE DESIGN PEA GRAVEL BOTTOM ELEVATION. THE BOTTOM OF EXCAVATION MUST BE APPROVED BY SFM ENGINEERING PRIOR TO THE PLACEMENT OF GRAVEL BORROW.
- IF DEWATERING IS REQUIRED, PUMP DISCHARGE SHALL BE DIRECTED TO A DEWATERING AREA, SEE DETAIL SHEET 9.
- PEA GRAVEL BLANKET AND BIO-RETENTION SOIL SHALL BE PLACED TO THE DEPTHS NOTED AND APPROVED BY SFM ENGINEERING.
- BIO-RETENTION AREA AND SLOPES SHALL BE PLANTED AS SPECIFIED ON THE LANDSCAPE ARCHITECT'S PLANS. PLANTINGS SHALL COMPLY WITH APPENDIX B.9.3 OF THE R.I. STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL (DEC. 2010) AS AMENDED.
- BIO-RETENTION AREA PLANTINGS SHALL BE INSTALLED BY A LANDSCAPE CONTRACTOR. SURVIVAL SHALL BE GUARANTEED FOR ONE YEAR.
- BIO-RETENTION SOIL SHALL HAVE A LOAMY SAND TEXTURE AND CONFORM TO THE FOLLOWING GRADATION:
SAND 85 - 88%
SILT 8 - 12%
CLAY 0 - 2%
ORGANIC MATTER 3 - 5%

NOTES

- SEE SHEET-8 FOR DRAINAGE BASIN NOTES, DETAILS, DIMENSIONS, ELEVATIONS AND TYPICAL SECTIONS.
- SEE SHEETS 9 & 10 FOR EROSION CONTROL NOTES AND DETAILS.
- STRAW BALE EROSION CHECK, SILT FENCE, OR SILT SOCK SHALL BE INSTALLED AND MAINTAINED AT ALL DOWNGRADIENT LIMITS OF DISTURBANCE AND AT ALL DRAINAGE INLETS AND OUTLETS.
- BIO-RETENTION AREAS SHALL BE PHYSICALLY DELIMITED PRIOR TO THE START OF CONSTRUCTION AND PROTECTED TO PREVENT COMPACTION OF THE BOTTOM AREA.

REVISION
DATE 5-17-15
DESCRIPTION W/PERMITS, STREAM & DRAINAGE PER DEW COMMENTS
7-20-15 PERMETER METZ AND

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
NO. 4098

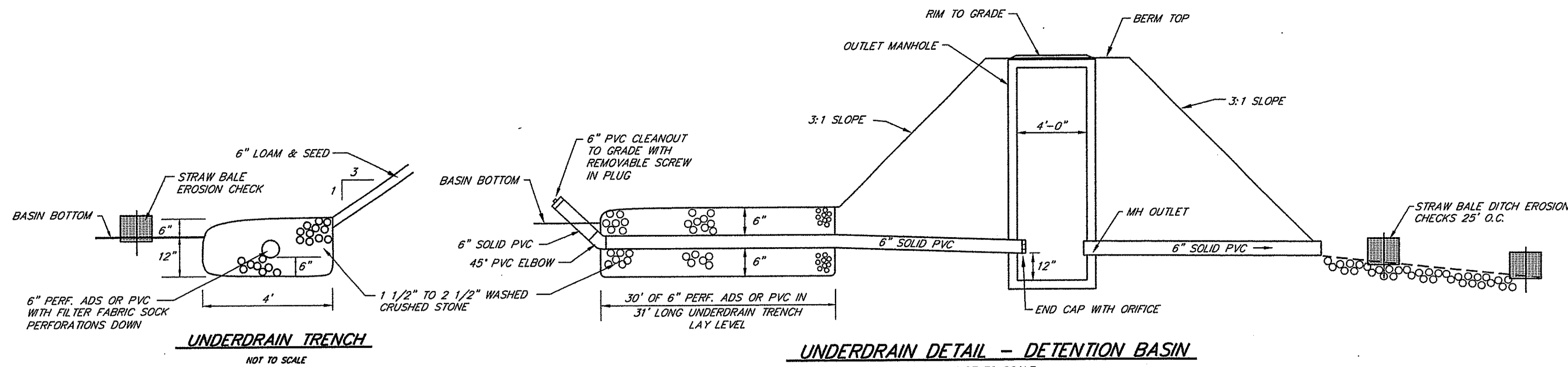
OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILFORD, CT 06437
203-550-8350

FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 GREENWICH ROAD
EAST GREENWICH, RI

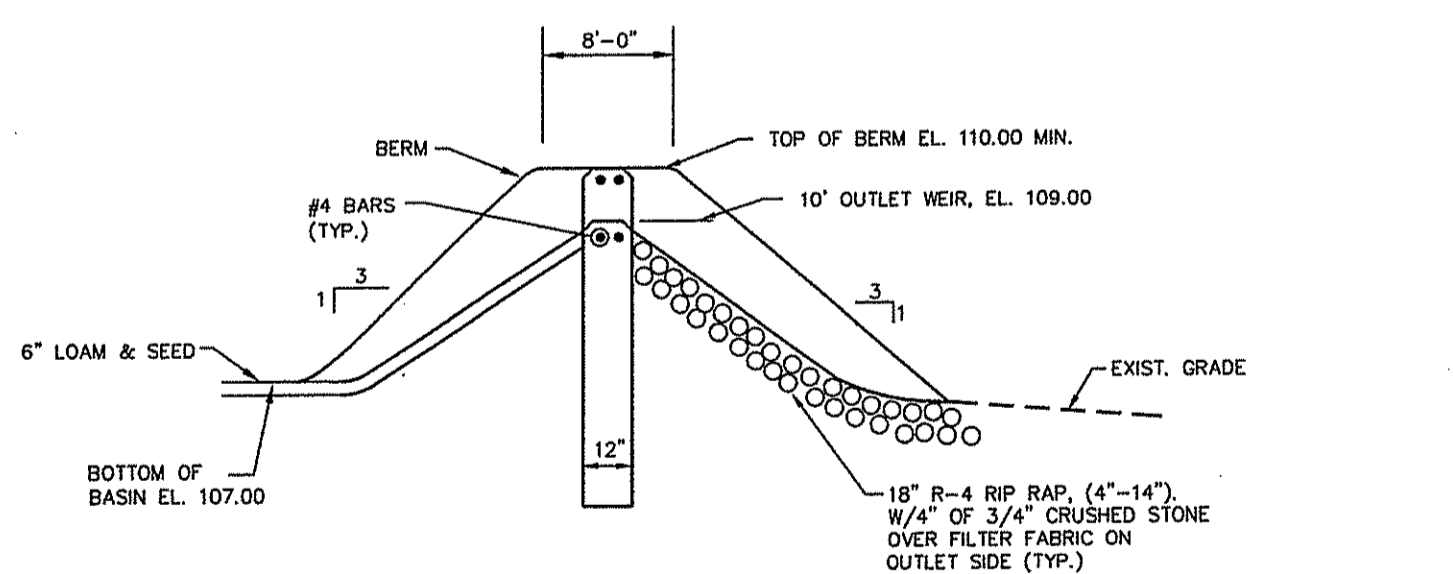
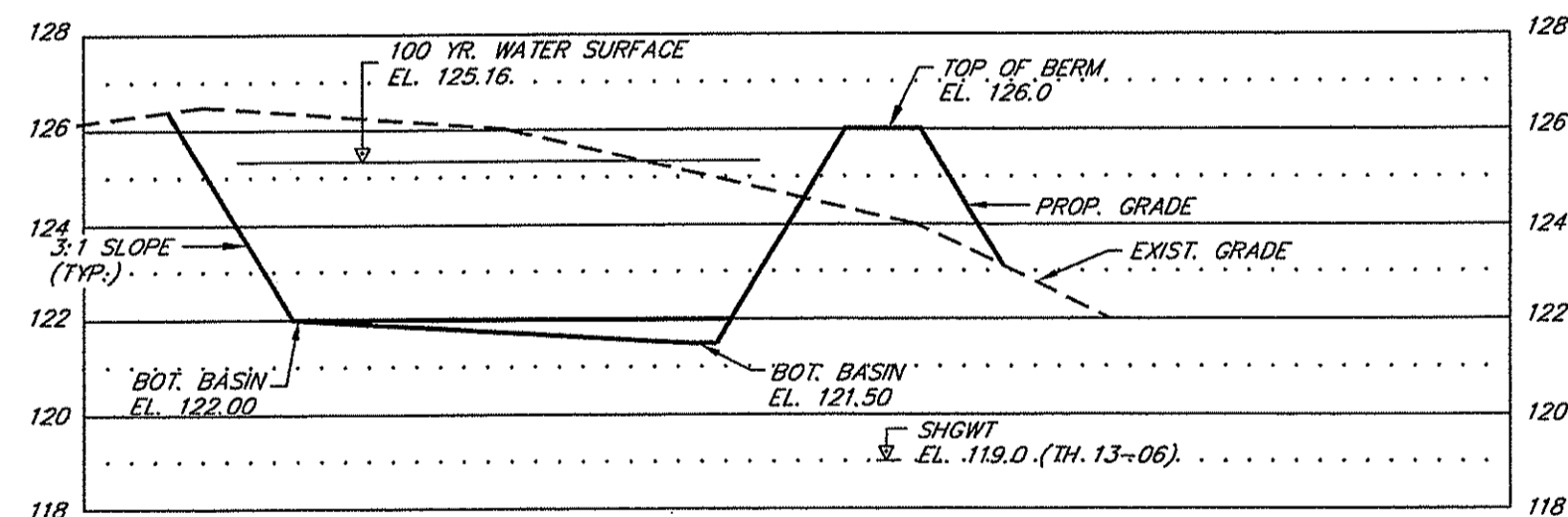
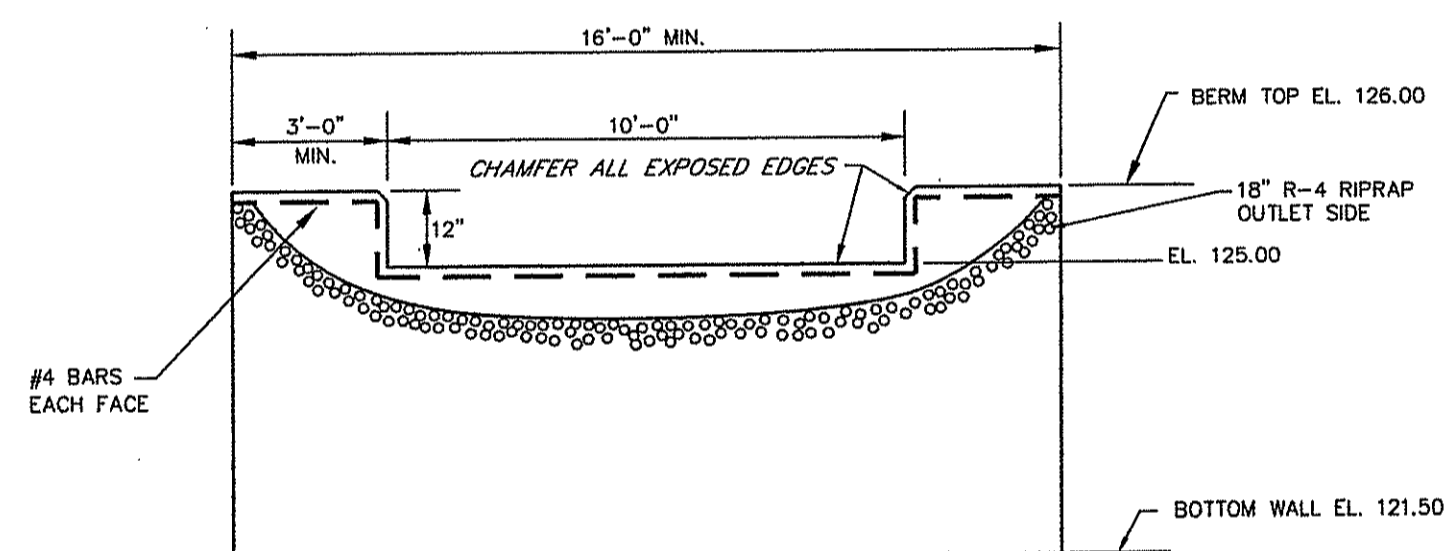
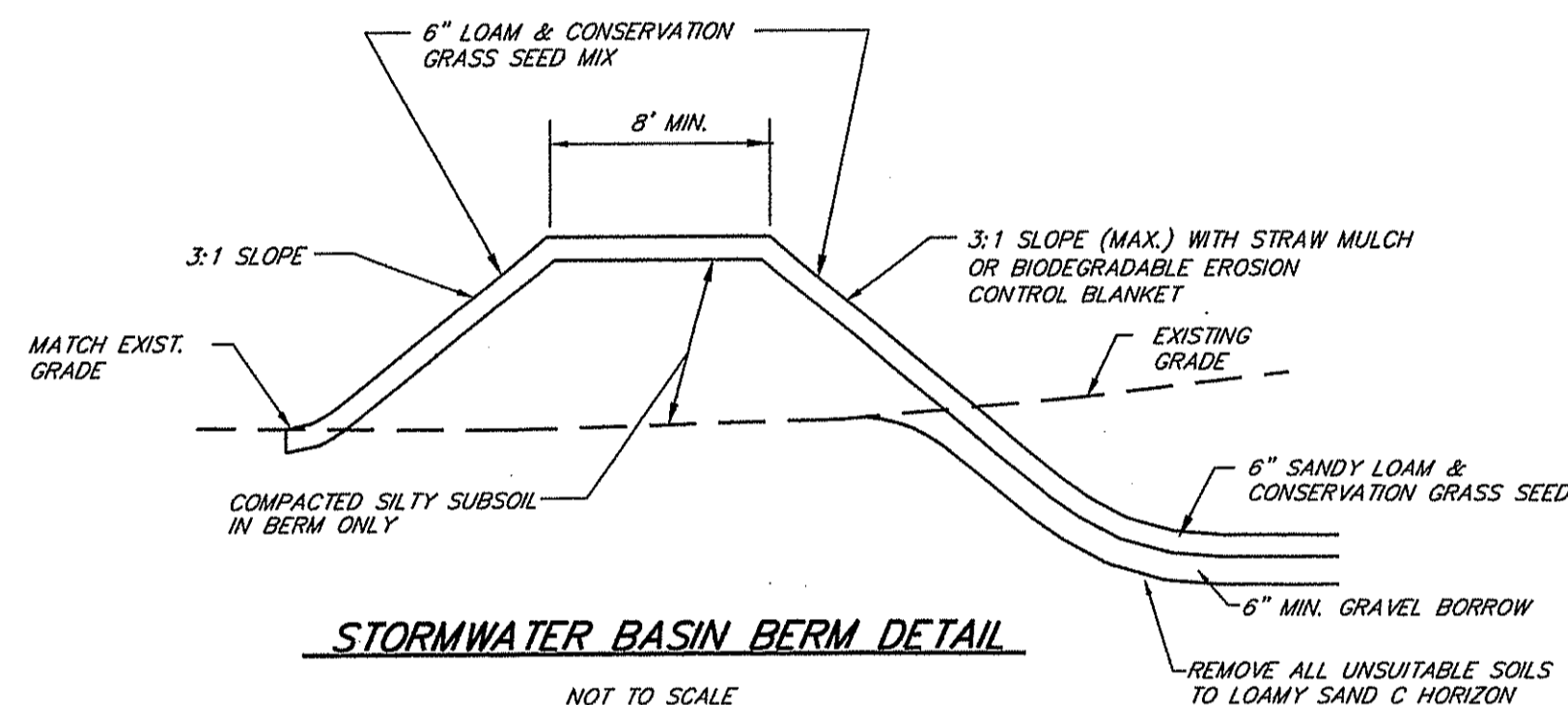
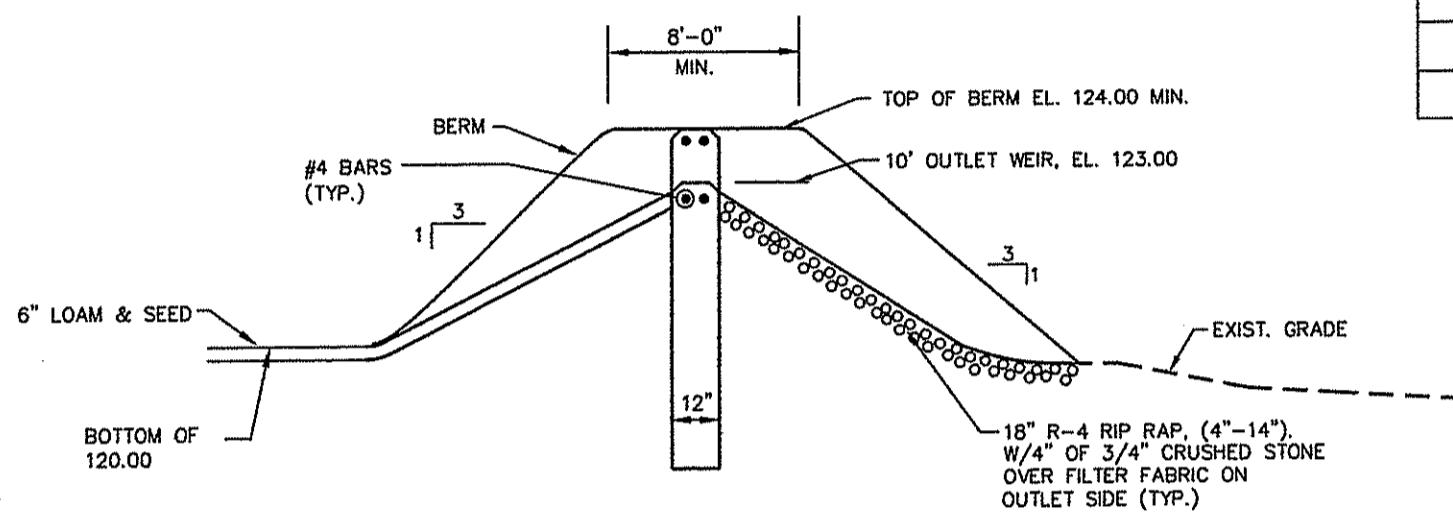
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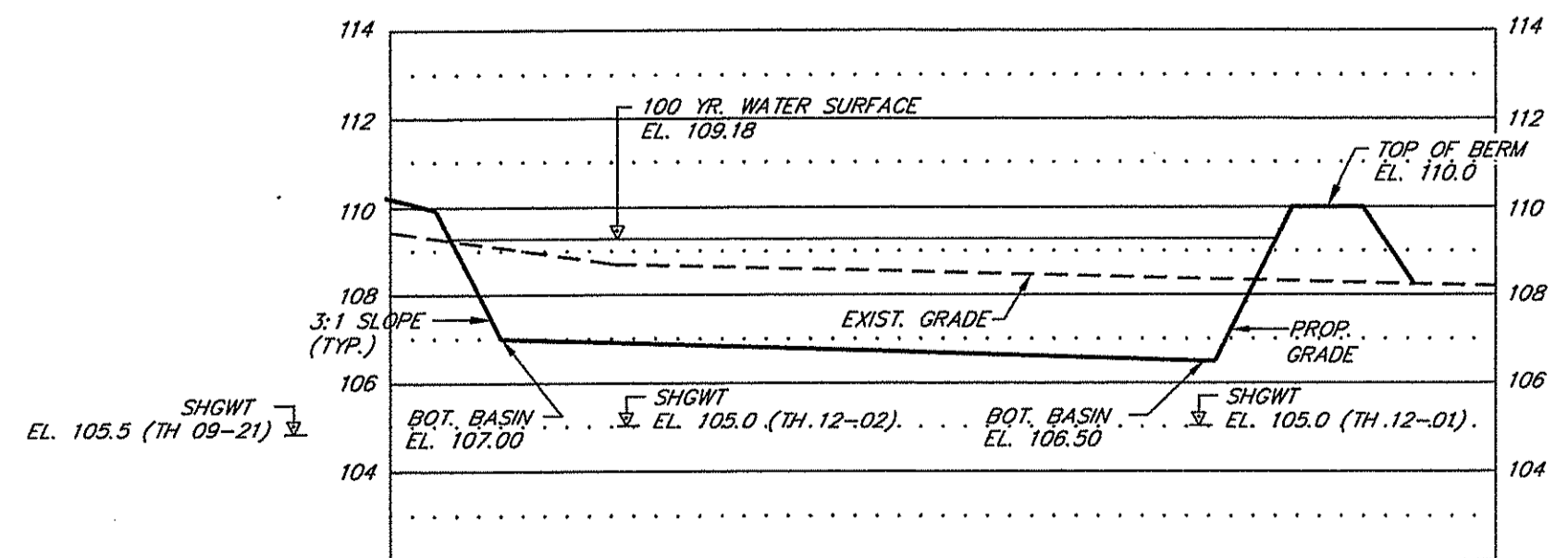
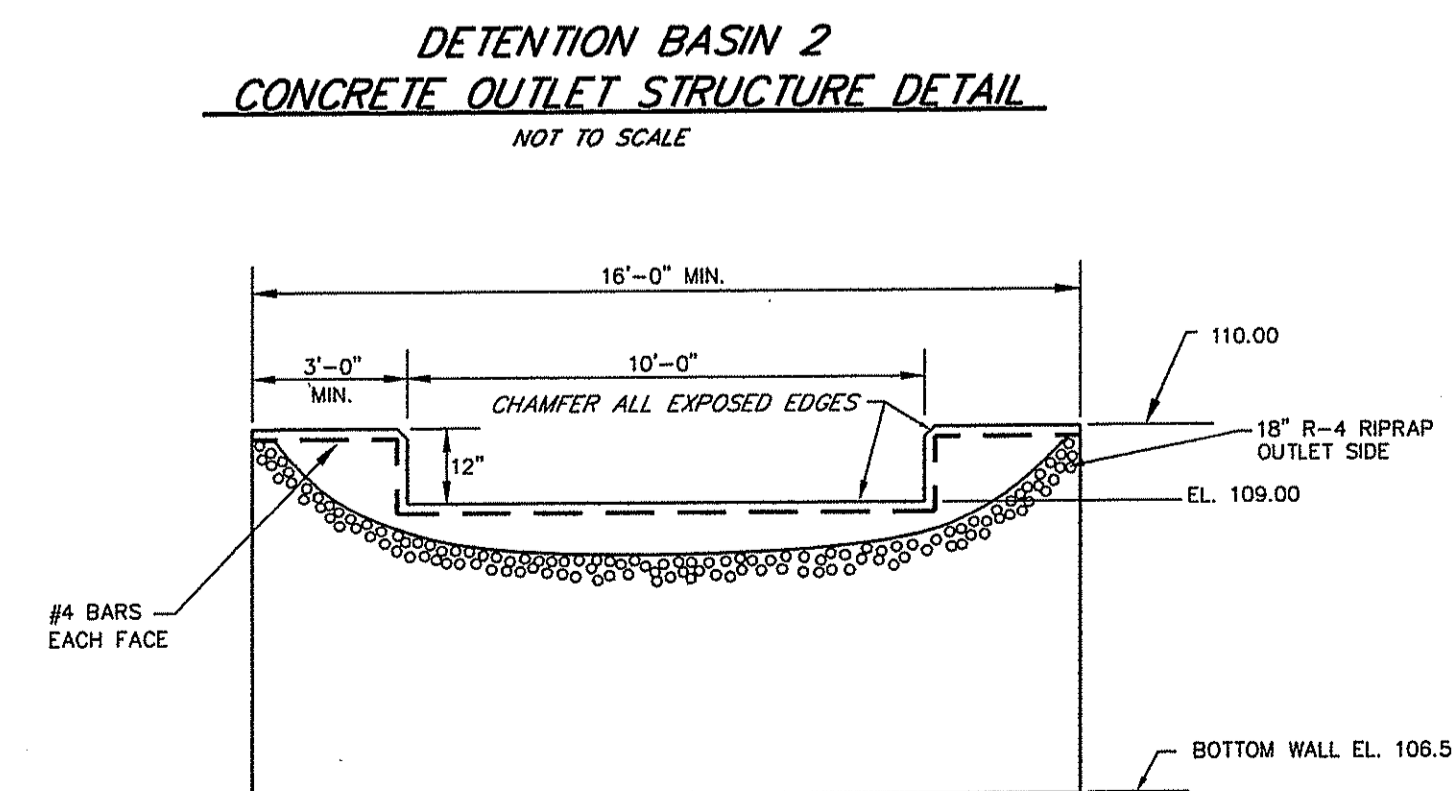
DRN. BY: LBC
CHK. BY: SFM
SCALE: 1" = 20'
DATE: JUNE 4, 2014
DWG: SFM788DB-B
SHEET 7 OF 14
PRELIMINARY SUBMISSION



DETENTION BASIN		UNDERDRAIN TO MANHOLE				UNDERDRAIN MANHOLE TO OUTLET				
NO.	BOTTOM ELEV.	TOP OF BERM ELEV.	TOP OF STONE ELEV.	6" PIPE LENGTH	UNDER DRAIN 6" INV.	DRAIN ORIFICE DIA.	DRAIN ORIFICE INV.	M.H. OUTLET INV.	6" PIPE LENGTH	6" OUTLET INV.
1	121.50 - 122.0	126.00	122.0	25'	121.00	1.5"	120.90	120.80	60'	120.50
2	108.50 - 107.0	110.00	107.0	20'	106.00	2.0"	105.80	105.70	18'	105.50

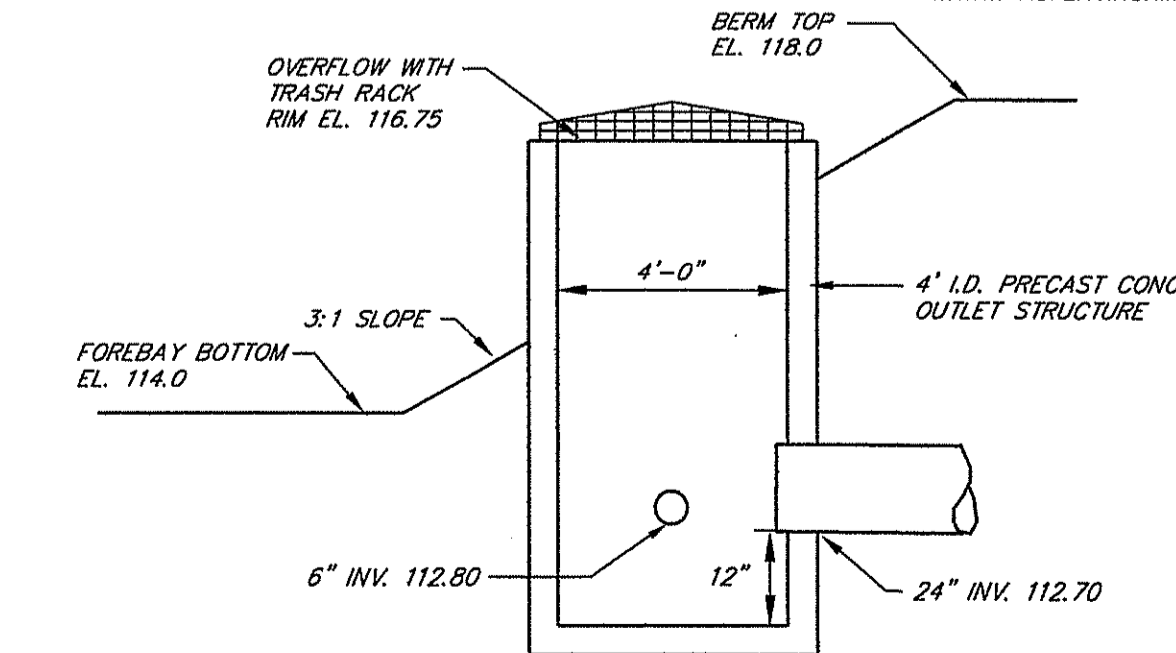


SCALE: HOR. 1" = 20'
VERT. 1" = 8'



SCALE: HOR. 1" = 20'
VERT. 1" = 8'

NOTE: TRASH RACKS BY ACF ENVIRONMENTAL OR EQUAL. PLASTIC PYRAMID STYLE INLET PROTECTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
CONTACT: PLASTIC SOLUTIONS INC. P.O. BOX 4386 WINCHESTER, VA. 22604 (877) 877-5727 WWW.ACFENVIRONMENTAL.COM



NOT TO SCALE

STORMWATER SYSTEM MAINTENANCE PLAN

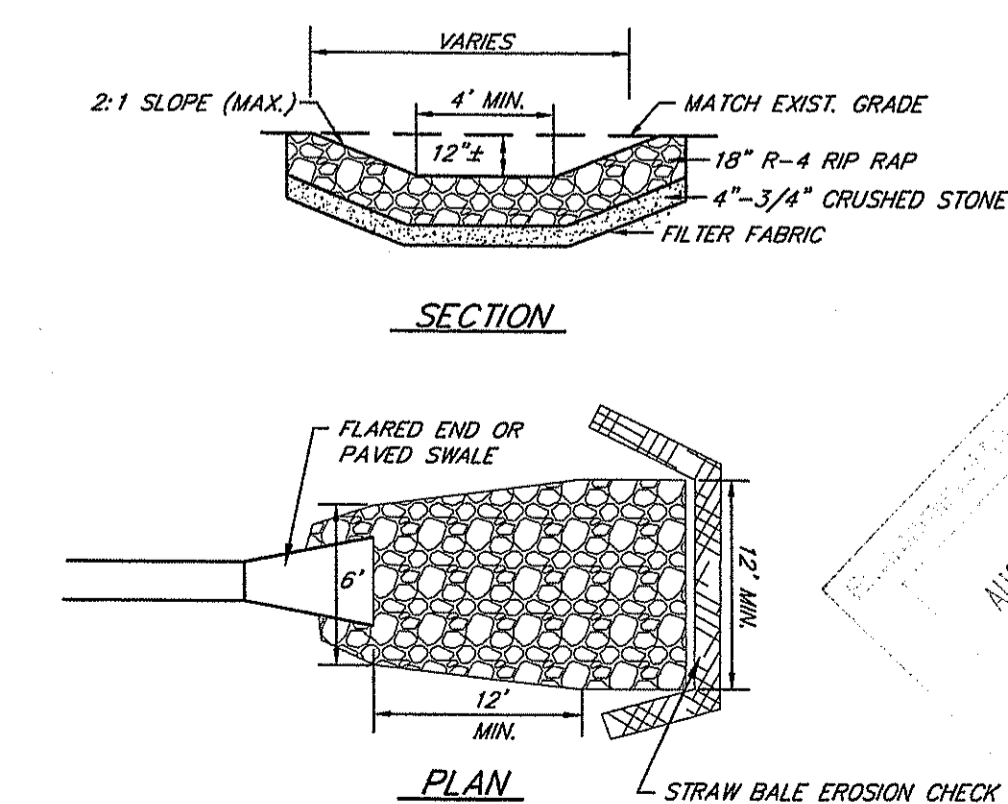
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE STORMWATER SYSTEM FACILITY PROTECTION, INSPECTION AND MAINTENANCE PRIOR TO, DURING AND POST CONSTRUCTION UNTIL FINAL ACCEPTANCE OF CONSTRUCTION.
- BIO-RETENTION AREAS AND DETENTION BASIN BOTTOMS SHALL BE PROTECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION TO PREVENT COMPACTION OF BOTTOM AREA.
- DETENTION BASINS & SEDIMENT FOREBAYS SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
 - THE GRASS ON THE BASIN & FOREBAY (BOTTOM & SLOPES) SHALL BE MOWED THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES. HEIGHT OF VEGETATION IN THE SEDIMENT FOREBAY IS 18" INCHES MAXIMUM.
 - THE INLET & OUTLET STRUCTURES TO THE BASIN & FOREBAY SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE PIPES SHALL BE CLEANED AT THE THREE (3) MOWINGS AND ONCE DURING THE WINTER MONTHS.
 - ACCUMULATED SILT AND DEBRIS SHALL BE REMOVED FROM THE DETENTION BASIN ONCE EVERY YEAR OR AS NEEDED.
 - SILT & DEBRIS SHALL BE REMOVED FROM THE SEDIMENT FOREBAY EVERY YEAR OR WHEN THE ACCUMULATION EXCEEDS ONE FOOT IN DEPTH.
- CATCH BASINS SHALL BE CLEANED & MAINTAINED A MINIMUM OF TWICE PER YEAR (SPRING & FALL). ACCUMULATED SILT, SAND, DEBRIS & OIL SHALL BE REMOVED AND DISPOSED OF AT A LICENSED WASTE FACILITY.
- ALL PAVED AREAS SHALL BE SWEEP AS NEEDED. ACCUMULATED SILT, SAND & DEBRIS SHALL BE REMOVED AND DISPOSED.
- BIO-RETENTION AREA SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
 - BIO-RETENTION AREA SHALL BE INSPECTED TWICE PER YEAR.
 - SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
 - IF STANDING WATER REMAINS 48 HOURS AFTER A RAINFALL EVENT, THE BOTTOM SHALL BE ROTO-TILLED THEN RE-SEEDED.
 - PRUNING OR REPLACEMENT OF VEGETATION SHOULD OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
 - SILT AND DEBRIS SHALL BE REMOVED WHEN THE ACCUMULATION EXCEEDS ONE INCH.
- UPON FINAL ACCEPTANCE OF THE CONSTRUCTION, THE TOWN OF EAST GREENWICH SHALL BE RESPONSIBLE FOR INSPECTION & MAINTENANCE OF THE PAVEMENT, CULVERTS, OUTLET STRUCTURES, CATCH BASINS AND MANHOLES WITHIN THE TOWN RIGHT OF WAY. THE HOMEOWNER ASSOCIATION SHALL BE RESPONSIBLE FOR REMAINING MAINTENANCE ITEMS OF THE SEDIMENT FOREBAYS, BIORETENTION AREAS AND DETENTION BASINS.

DETENTION BASIN NOTES

- SLOPES OF BASIN SHALL BE 3:1 OR FLATTER.
- BOTTOM OF DETENTION BASIN SHALL HAVE A MINIMUM OF 6" LOAMY SAND, AND SHALL BE PLANTED WITH CONSERVATION SEED MIX. ALL OTHER AREAS NOT RIP RAPPED SHALL HAVE A MINIMUM OF 6" LOAM, CONSERVATION SEED MIX AND STRAW MULCH.
- DETENTION BASIN SHALL BE CONSTRUCTED AND STABILIZED AS SOON AS POSSIBLE AND PRIOR TO LOT CONSTRUCTION. TEMPORARY DRAINAGE SHALL BE DIVERTED TO SEDIMENT FOREBAYS OR SEDIMENT TRAPS, SEE NOTE 9 ON SHEET C3.
- ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED FROM THE DETENTION BASINS AS REQUIRED DURING SITE CONSTRUCTION, AFTER EVERY RAIN EVENT AND IMMEDIATELY PRIOR TO LOAMING AND SEEDING.
- INLETS AND OUTLETS TO BASINS SHALL BE PROTECTED WITH STRAW BALE EROSION CHECKS.
- UNDERDRAINS SHALL BE PROTECTED WITH STRAW BALE EROSION CHECKS UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ACCUMULATED SILTS SHALL BE REMOVED AND CRUSHED STONE ENVELOPE REPLACED AS REQUIRED.
- DETENTION BASIN SHALL BE CONSTRUCTION STAKED BY THE PROJECT SURVEYOR TO INSURE ACCURATE LOCATION AND ELEVATION. THE PROJECT SURVEYOR SHALL AS-BUILT SURVEY THE BASINS PRIOR TO SEEDING AND PROVIDE A REPORT TO S.F.M. ENGINEERING. ANY DISCREPANCIES SHALL BE CORRECTED PRIOR TO SEEDING.

DRAINAGE NOTES

- CATCH BASINS SHALL BE 4' I.D. PRECAST CONC. WITH 4" SUMP R.I. STD. 4.4.0 TYPE 'F'.
- CATCH BASIN FRAMES & GRATES SHALL BE R.I. STD. 6.3.2 (TYPICAL) CATCH BASIN FRAME & GRATES AT STATION 5+50 RT. & LT. AND STATION 11+25 RT. & LT. SHALL BE HIGH CAPACITY (R.I. STD. 6.3.3). FRAME & GRATES SHALL BE SET 1 1/2" BELOW DESIGN GRADE UNTIL FINAL PAVEMENT COURSE IS TO BE INSTALLED. AT FINAL PAVING, RAISE FRAME & GRATE TO DESIGN GRADE.
- MANHOLES SHALL BE 4' I.D. PRECAST CONC. R.I. STD. 6.2.1.
- MANHOLE FRAMES & COVERS SHALL BE R.I. STD. 6.2.1.
- ON-SITE DRAINAGE PIPING SHALL BE HDPE ADS-N 12" (500' TIGHT). WATER TIGHT PIPING IS REQUIRED BETWEEN BASIN AND FOREBAY. APPROVED PLANS MUST BE AT CONSTRUCTION. AS SHOWN ON SHEET C5.
- ALL DRAINAGE INLETS AND OUTLETS SHALL HAVE STAKED STRAW BALE EROSION CHECKS WHICH SHALL BE MAINTAINED UNTIL THE AREAS FULLY STABILIZED.



NOTES:
RIP RAP SWALES SHALL BE 6" WIDE AT FLARED END OR PAVED SWALE AND WIDEN TO 12" LENGTH = 12" MIN. REFERENCE RIDOT STD. 8.3.0

NOT TO SCALE

REVISION
5-21-15
DATE
SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
NO. 2298
REGISTERED PROFESSIONAL ENGINEER
NO. 2298

OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILDFORD, CT 06437
TEL: 203-550-8350

FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

CONSTRUCTION DETAILS-1

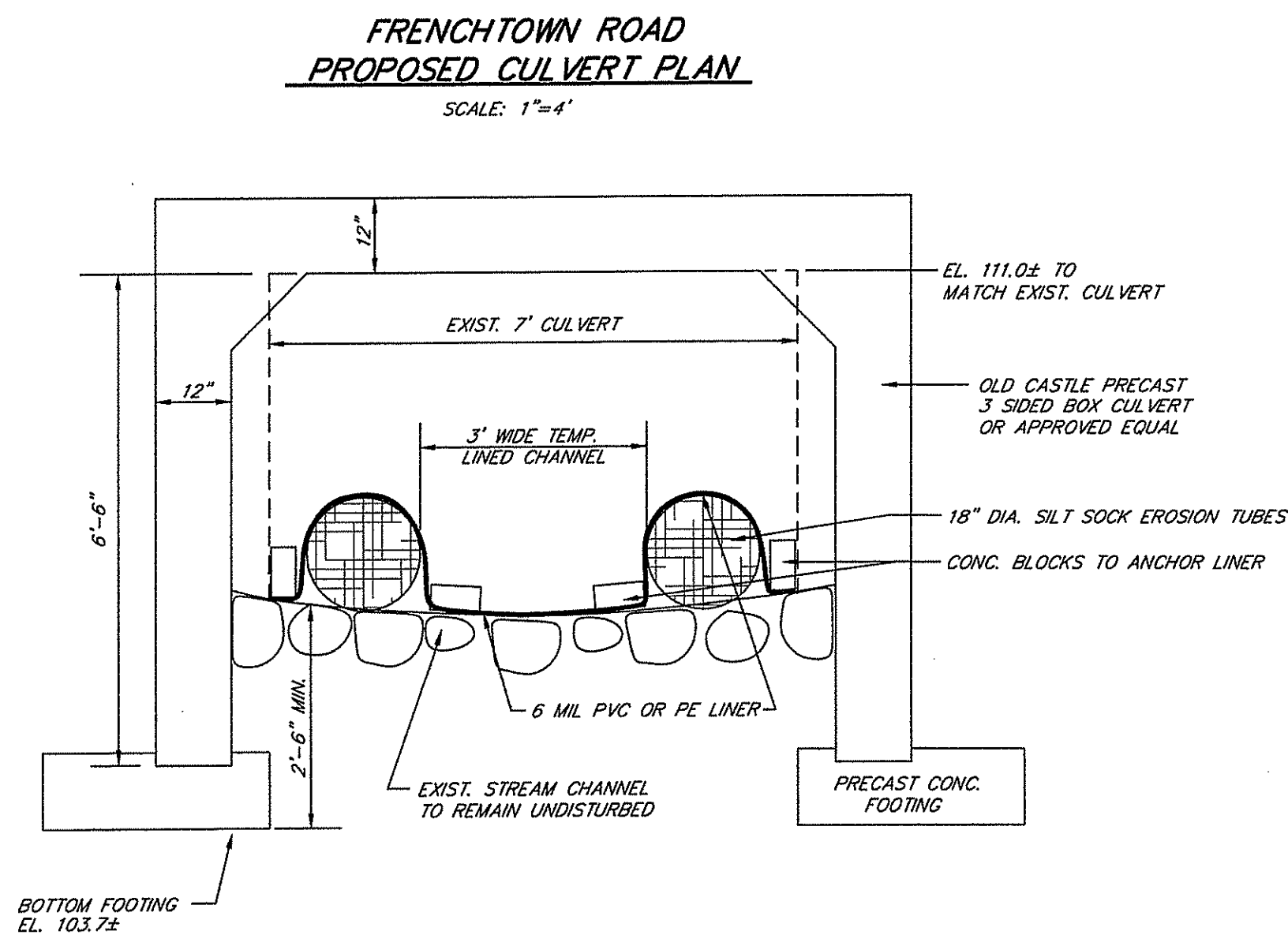
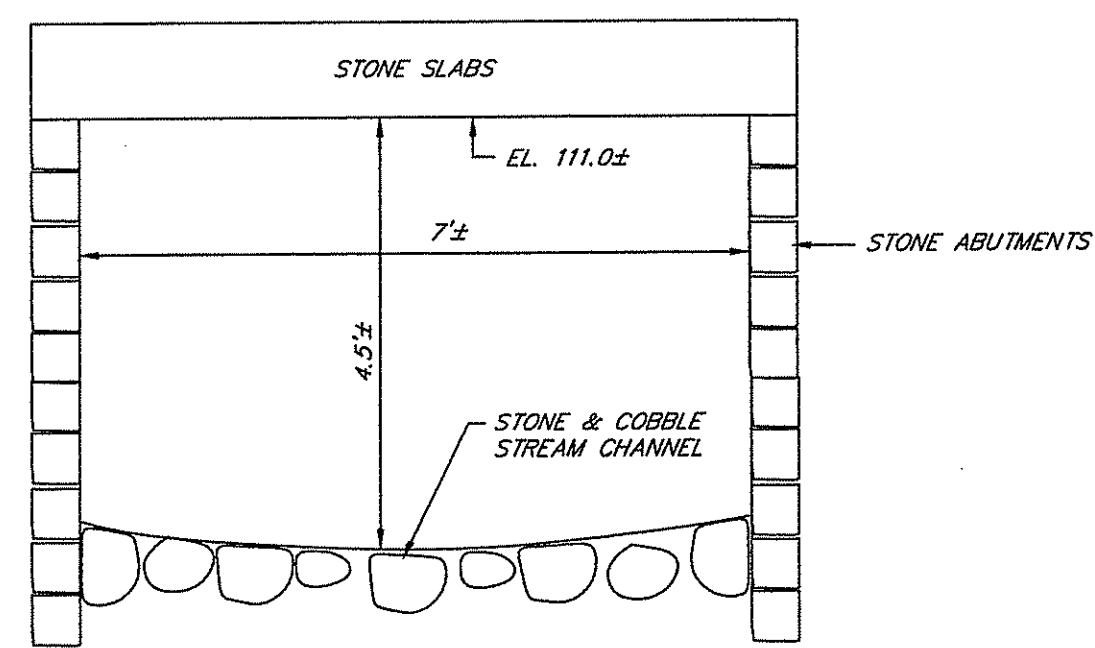
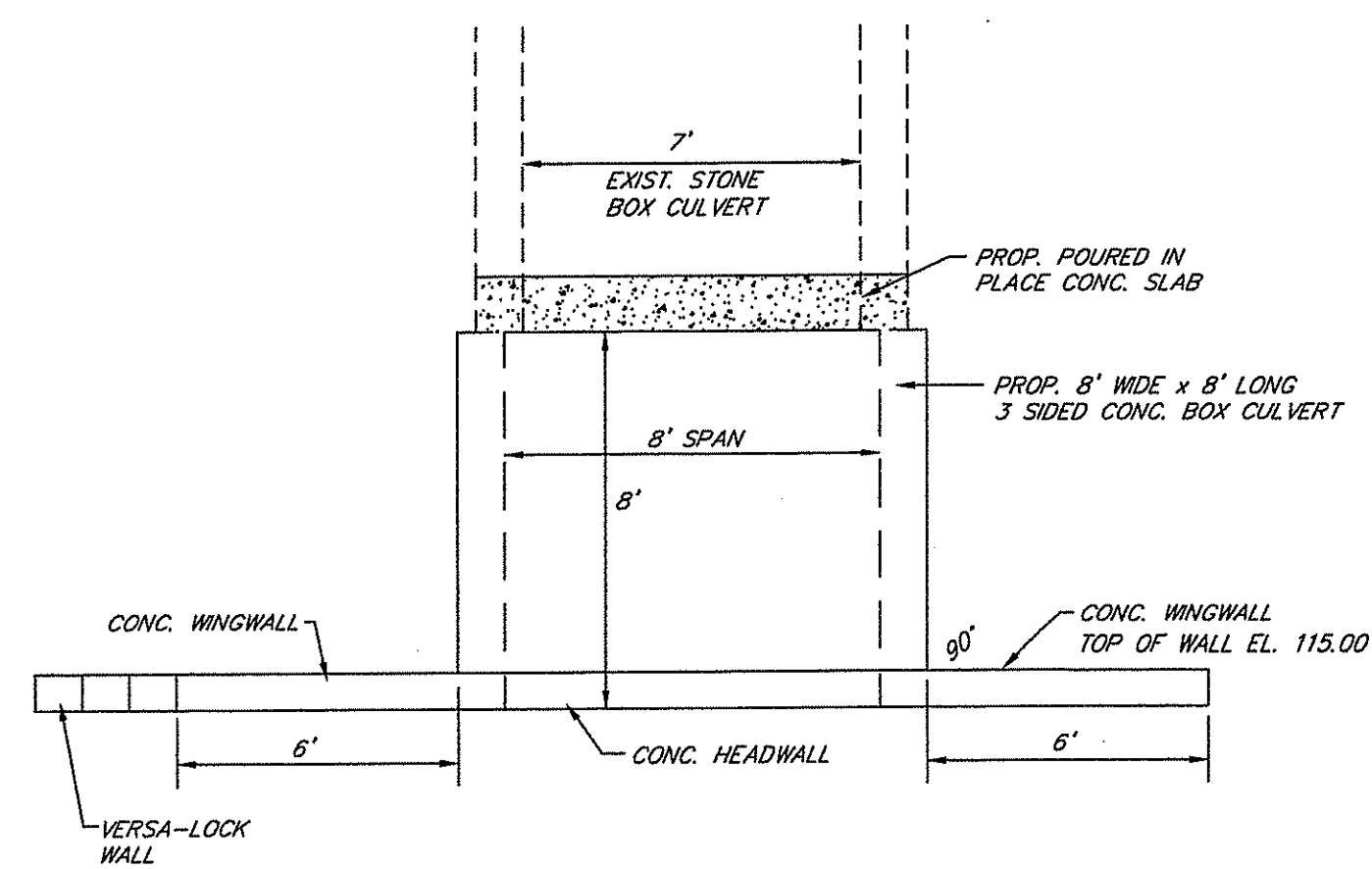
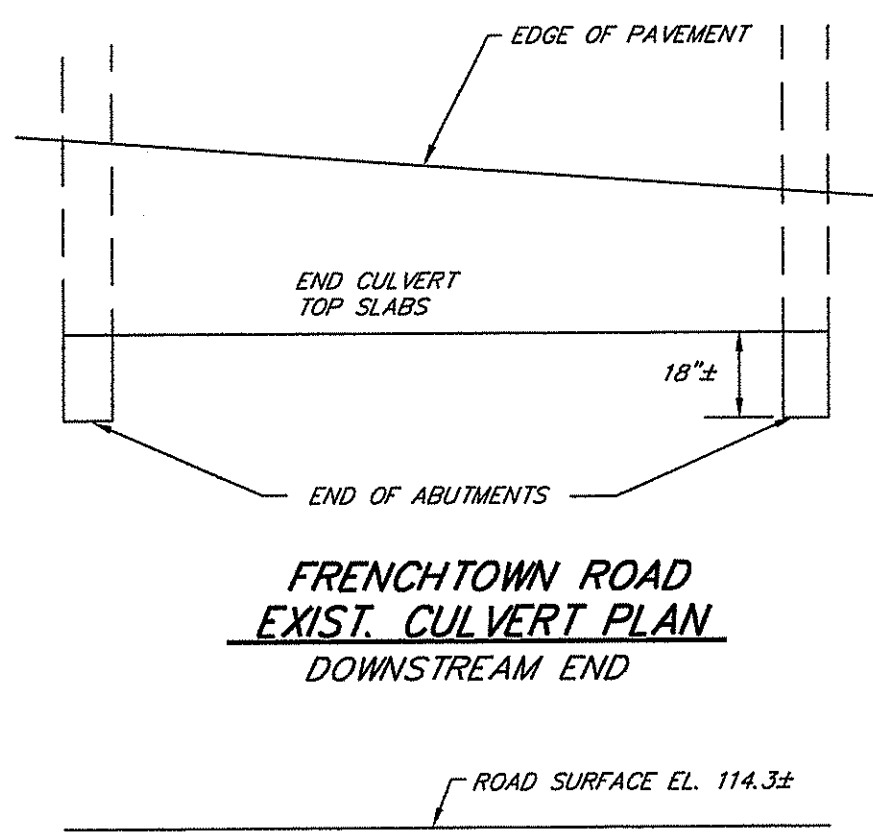
S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NECOMAIL.COM

DRN. BY: LBC
CHK. BY: SFM
SCALE: AS NOTED
DATE: JUNE 4, 2014
DWG: SFM788CD1-A
SHEET 8 OF 14
PRELIMINARY SUBMISSION

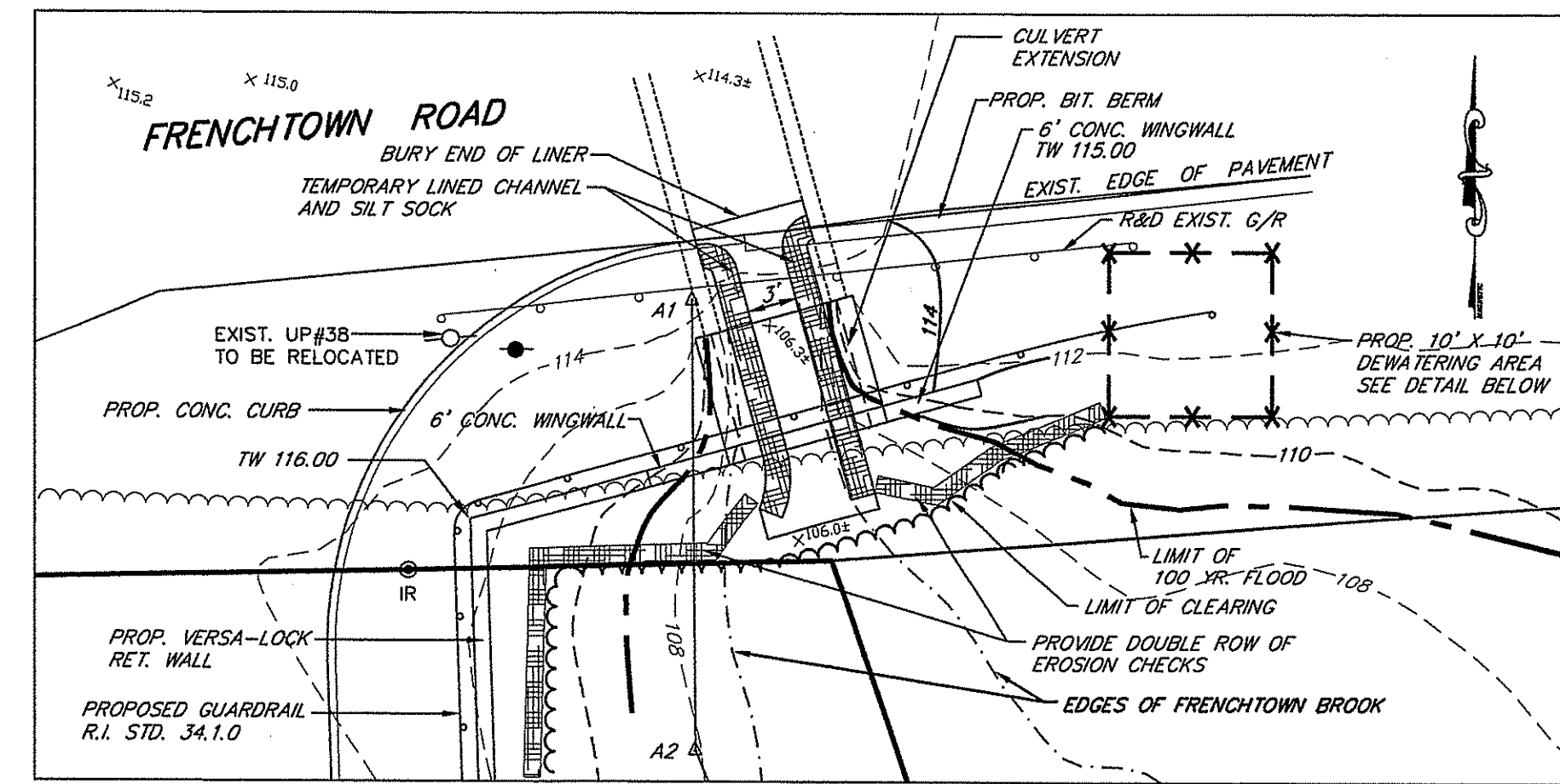
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AUG 28 2015

C8



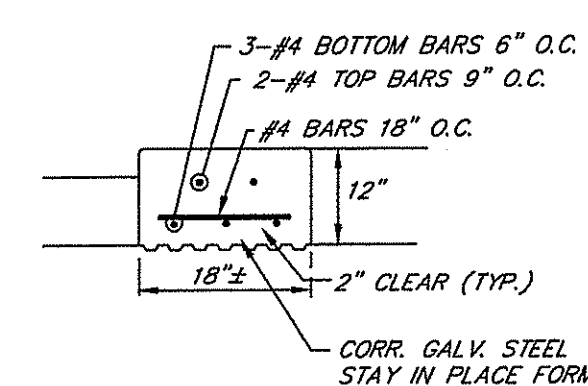
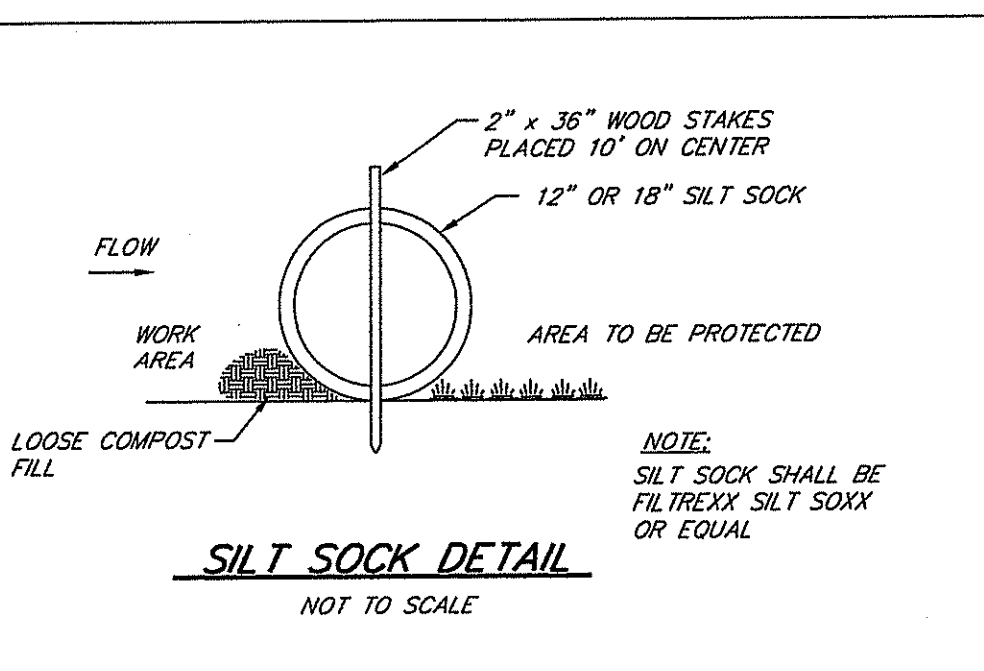
FRENCHTOWN ROAD PROPOSED CULVERT SECTION
SCALE: 1"=2'



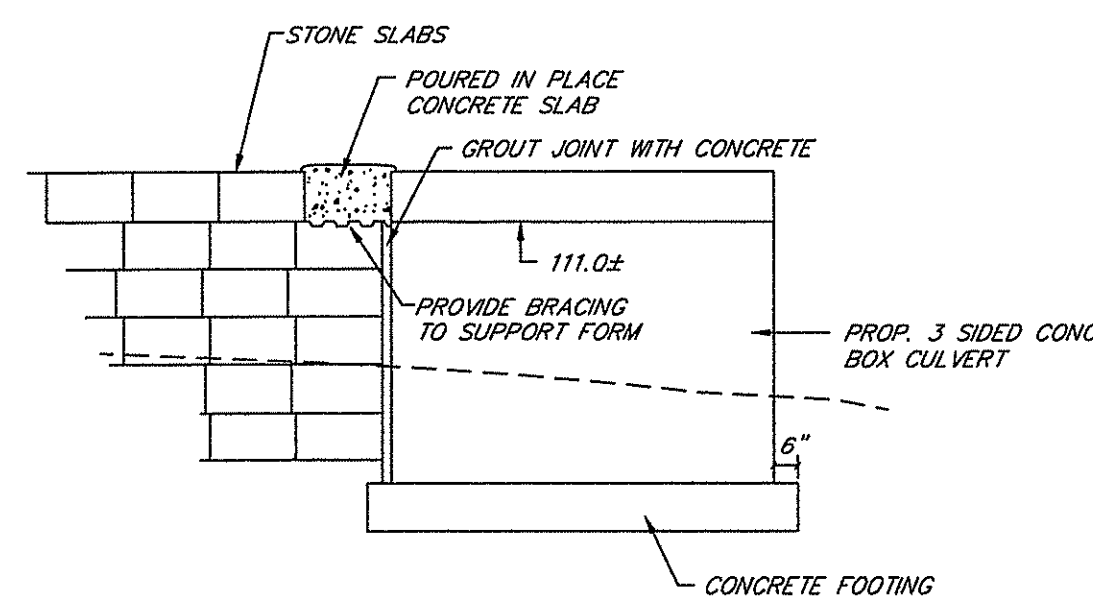
FRENCHTOWN ROAD CULVERT EXTENSION DETAIL
SCALE: 1"=10'

- CULVERT NOTES:**
- ALL CONCRETE SHALL BE 3000 PSI CLASS A, 1 1/2" MAX. AGGREGATE SIZE. ALL CONCRETE, EXCEPT FOR FOOTINGS, SHALL BE ROD VIBRATED.
 - REINFORCING STEEL SHALL BE GRADE 60.
 - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 3/4" CHAMFERS.
 - ALL WORK SHALL CONFORM TO R.I.D.O.T. SPECIFICATIONS AND R.I.D.E.M. PERMIT CONDITIONS AND REGULATIONS.
 - CONSTRUCTION EQUIPMENT MUST WORK FROM THE UPLAND SIDES OF THE CULVERT. CONSTRUCTION EQUIPMENT IS NOT ALLOWED IN THE WOODED SWAMPS OR RIVER.
 - WORK WITHIN JURISDICTIONAL WETLANDS FOR CLEARING OR CONSTRUCTION, SHALL BE LIMITED TO THE ABSOLUTE MINIMUM NECESSARY.
 - NO WORK IS ALLOWED WITHIN THE WETLANDS EXCEPT AS SPECIFICALLY SHOWN ON THE PLANS. ALL WORK SHALL BE ACCURATELY LOCATED AND CONSTRUCTION STAKED PRIOR TO COMMENCEMENT OF WORK.
 - A MINIMUM DOUBLE ROW OF STRAW BALE EROSION CHECK OR STRAW BALE WITH SILT FENCE SHALL BE MAINTAINED AT ALL LIMITS OF DISTURBANCE WITHIN THE WETLANDS AND PERMETER WETLANDS. SILT FENCE MUST BE REMOVED AFTER ALL DISTURBED AREAS ARE STABILIZED.
 - INSTALLATION OF THE CULVERT EXTENSION SHALL BE LIMITED TO THE PERIOD OF LOW FLOW, JULY 1 TO OCTOBER 31. CULVERT INSTALLATION SHALL ONLY OCCUR WHEN THE RIVER FLOW IS LOW ENOUGH TO BE CONTAINED WITHIN A 3' WIDE BY 18" DEEP TEMPORARY LINED CHANNEL, WHICH WOULD BE WHEN THE AVERAGE FLOW DEPTH IN THE 7' WIDE BOX CULVERT IS LESS THAN 6".
 - THE TEMPORARY LINED CHANNEL SHALL BE INSTALLED PRIOR TO ANY EXCAVATION FOR FOOTINGS. FOOTING TRENCHES SHALL BE PROTECTED WITH TRENCH BOXES OR TEMPORARY SHEETING TO PREVENT COLLAPSE OF THE STREAM CHANNEL. PUMPS USED FOR DEWATERING SHALL DISCHARGE TO A DEWATERING BASIN.
 - FOOTING EXCAVATION, FOOTING AND BOX CULVERT INSTALLATION AND RIVER BED RESTORATION WORK SHALL BE COMPLETED IN A 36 HOUR MAXIMUM PERIOD. INSTALLATION SHALL BE SCHEDULED WHEN NO RAIN IS FORECAST FOR A 3 DAY MINIMUM PERIOD.
 - THE TEMPORARY DIVERSION CHANNEL SHALL BE REMOVED AND THE CONCRETE HEADWALL AND WINGWALLS SHALL BE INSTALLED IMMEDIATELY AFTER THE BOX CULVERT INSTALLATION.

FRENCHTOWN ROAD EXIST. CULVERT SECTION



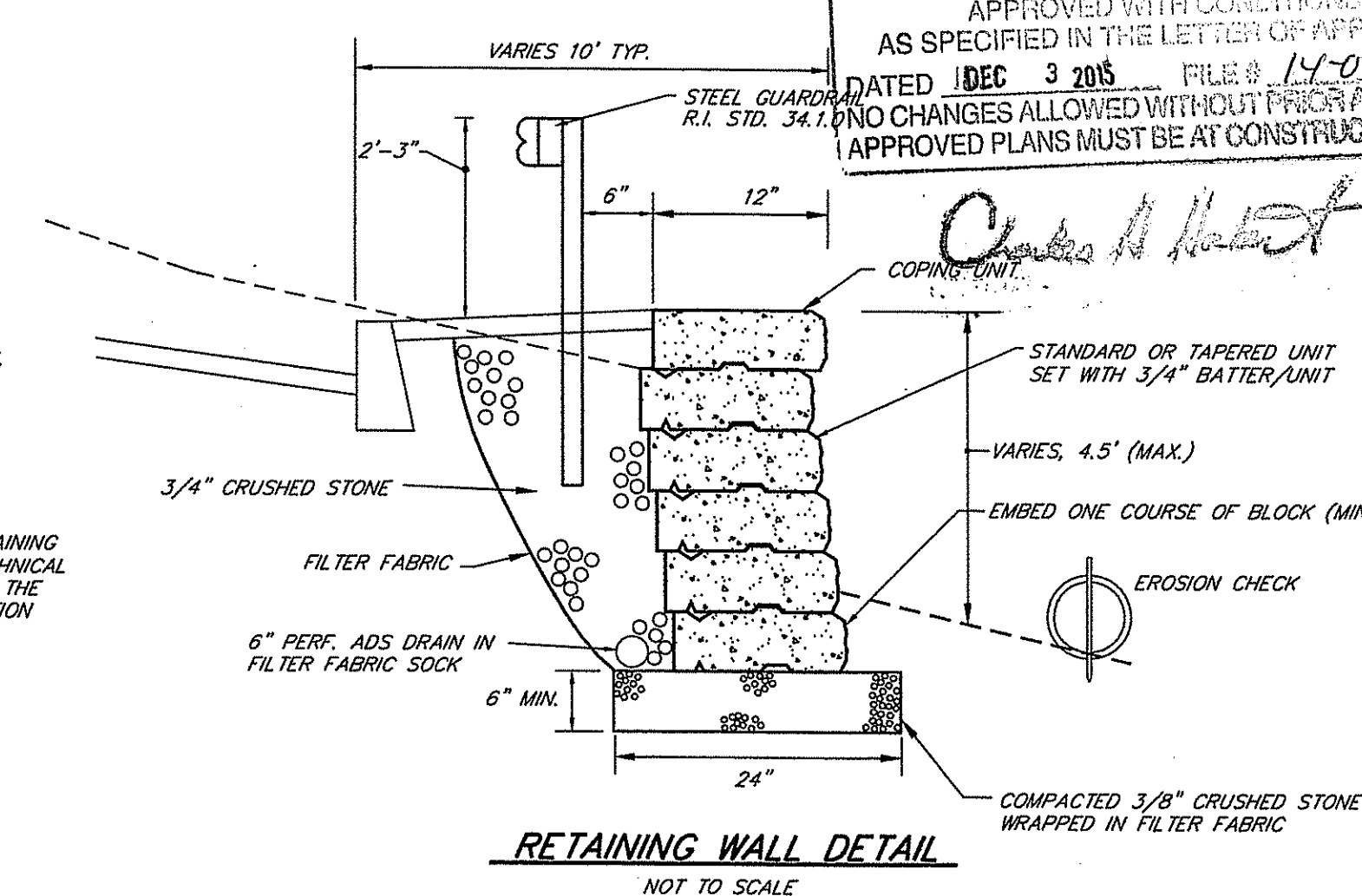
CONC. SLAB DETAIL



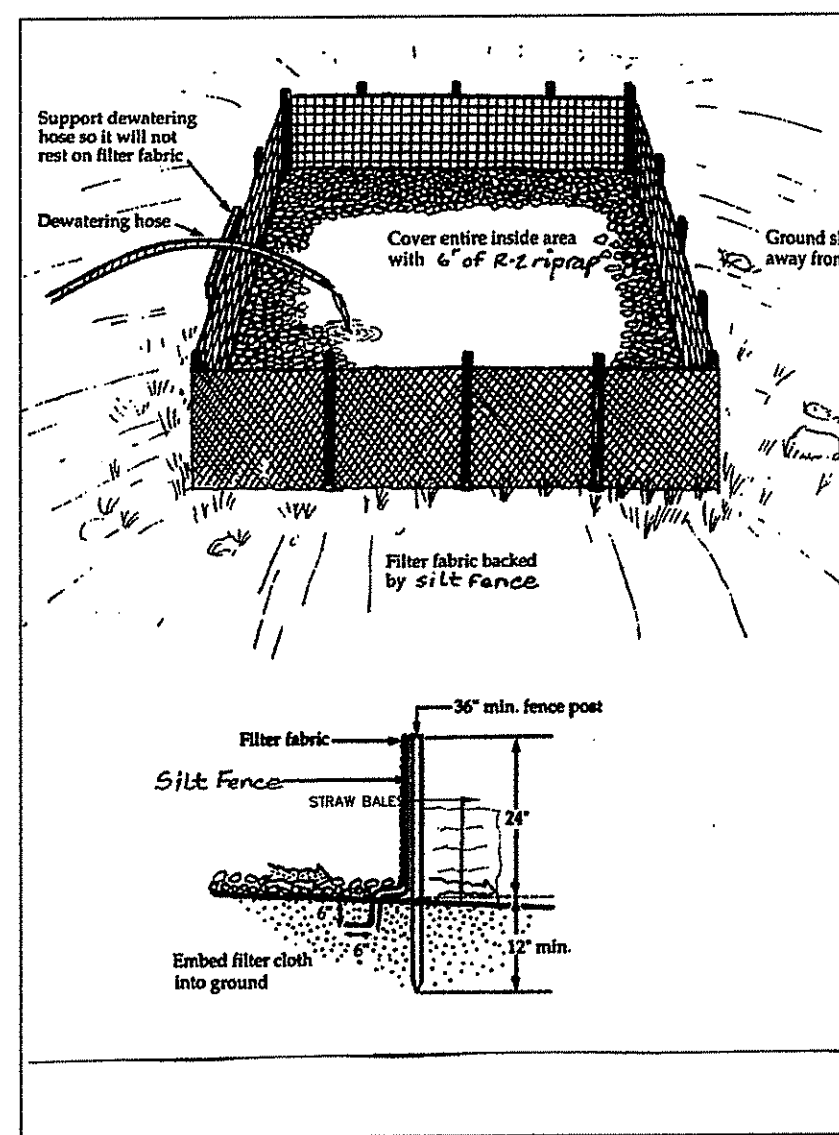
CULVERT CONNECTION DETAIL
NOT TO SCALE

RETAINING WALL NOTES:

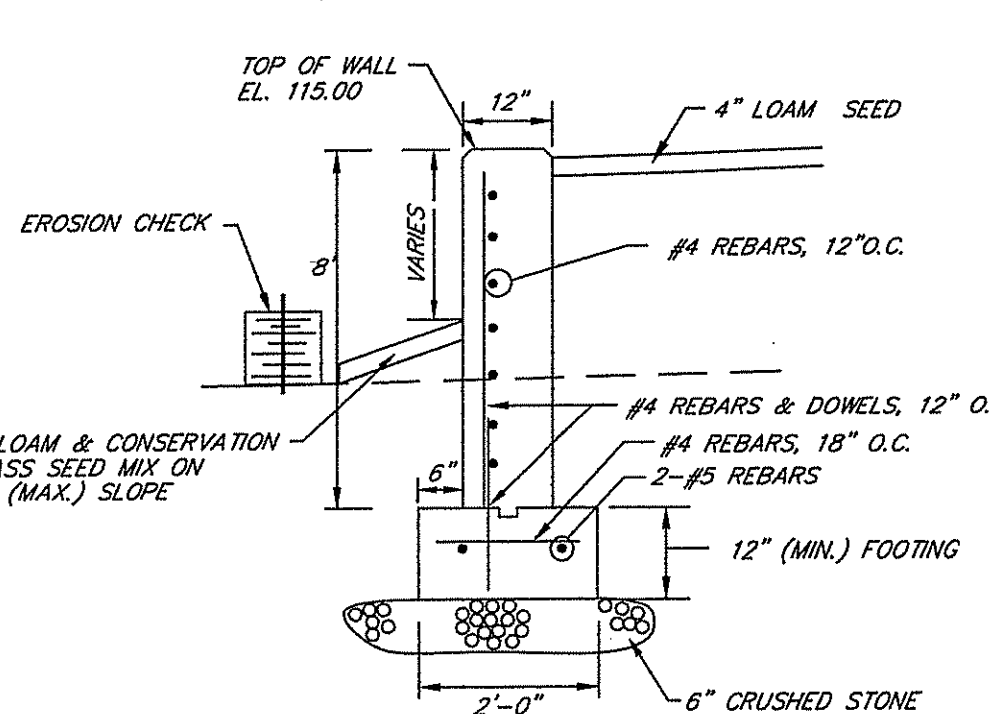
- RETAINING WALLS SHALL BE PRECAST CONCRETE SEGMENTAL BLOCK, VERSA-LOK MOSAIC, UNILOK PISA2 OR OWNER APPROVED EQUAL. WALLS SHALL BE DESIGNED TO MINIMIZE THE NEED FOR GEOTEC REINFORCEMENT. COLOR TO BE SELECTED BY OWNER.
- RETAINING WALLS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
- RUN ADS DRAINS TO DAYLIGHT OR DRAINAGE SYSTEM.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL RETAINING WALLS HIGHER THAN 48" DESIGNED BY A R.I. REGISTERED GEOTECHNICAL ENGINEER. WALL DESIGN AND MATERIALS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. POST CONSTRUCTION CERTIFICATION SHALL BE PROVIDED BY THE GEOTECHNICAL ENGINEER.
- WALL DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. WALL CONSTRUCTION SHALL COMPLY WITH THE DESIGN DETAILS PROVIDED BY THE GEOTECHNICAL ENGINEER.



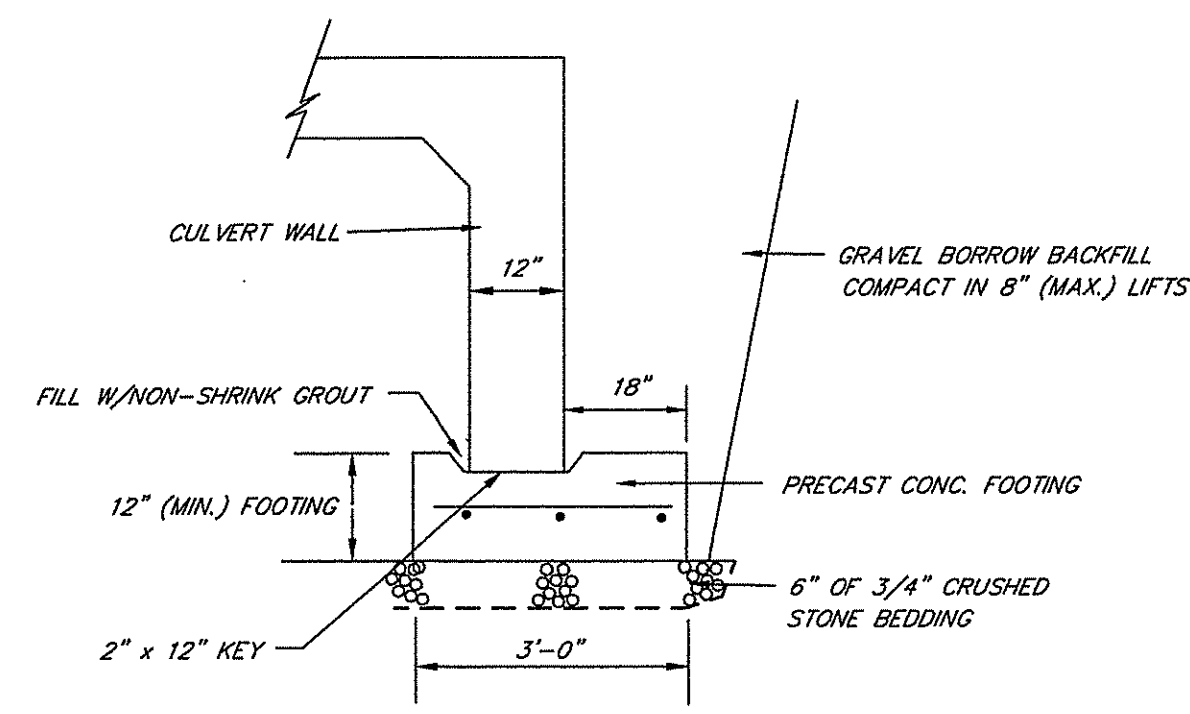
RETAINING WALL DETAIL
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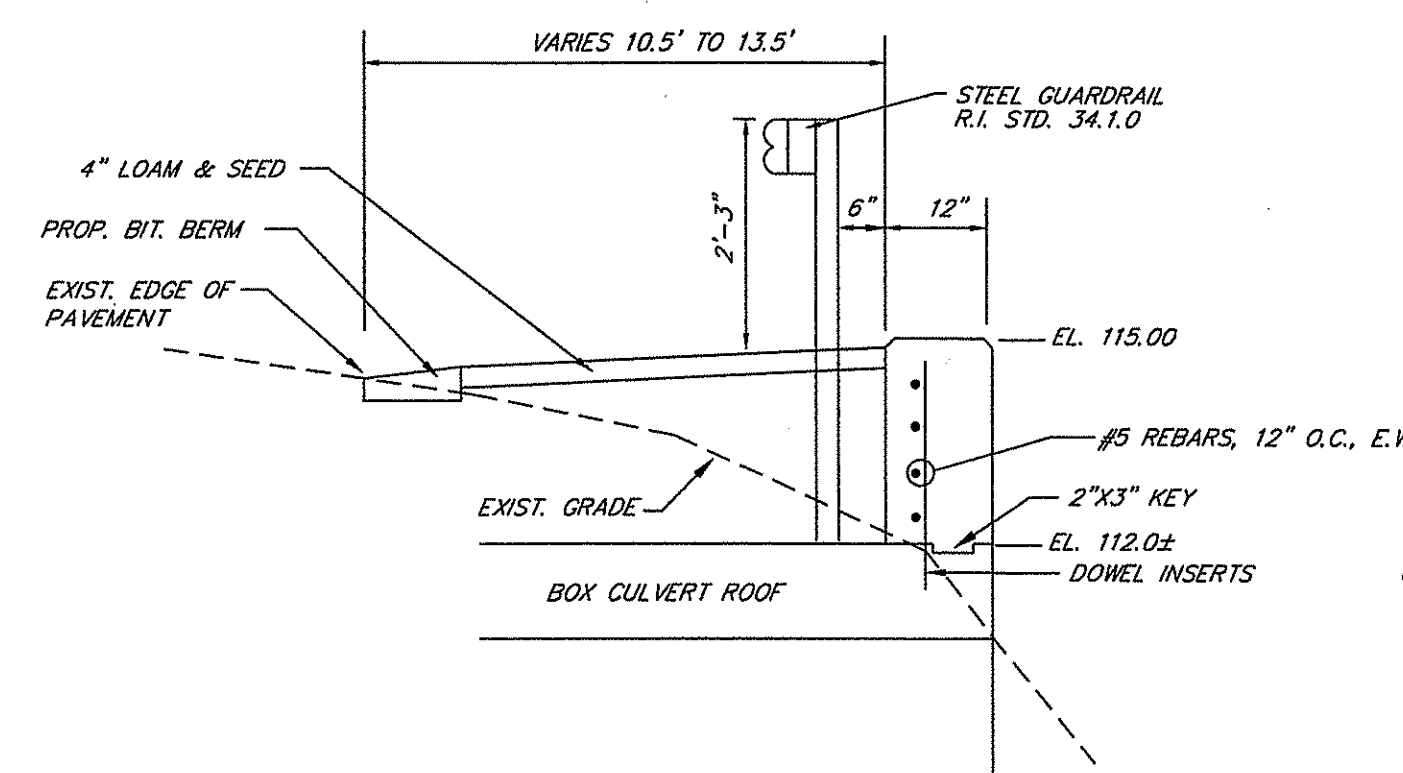
DEWATERING AREA
NOT TO SCALE



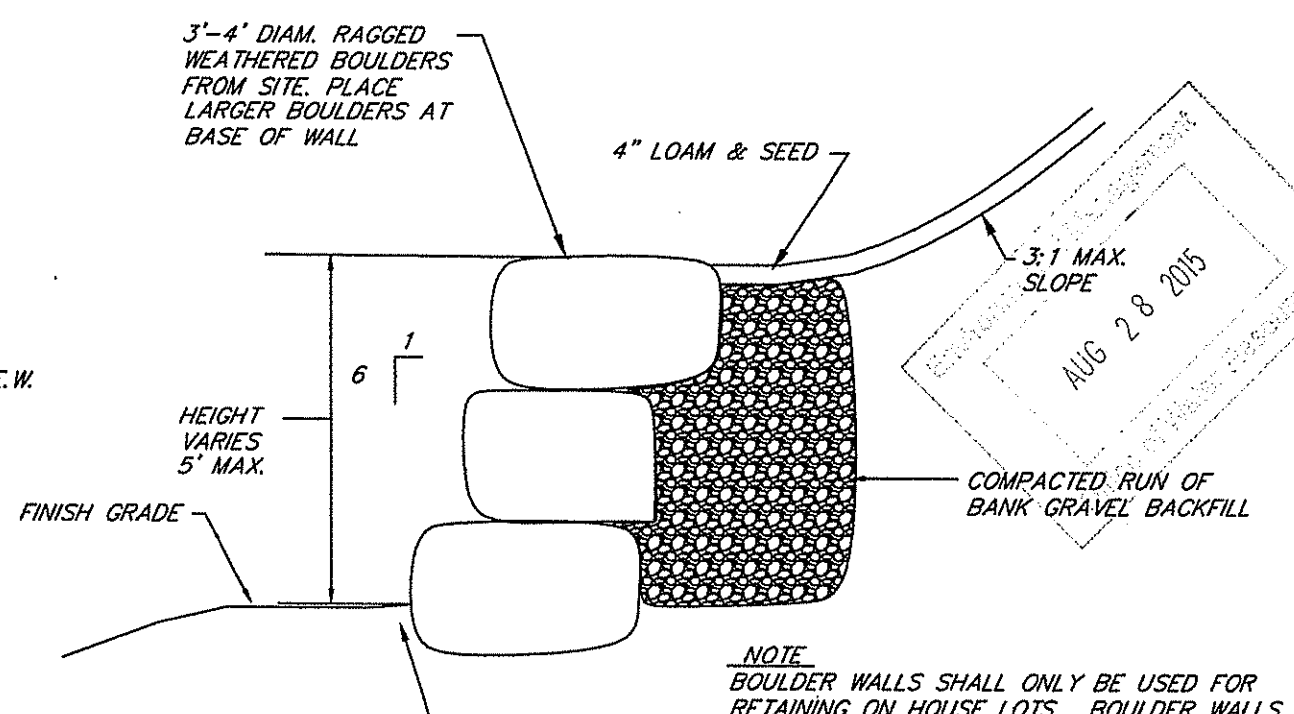
FRENCHTOWN ROAD CONCRETE WINGWALL DETAIL
NOT TO SCALE



FRENCHTOWN ROAD CULVERT FOOTING DETAIL
NOT TO SCALE



FRENCHTOWN ROAD HEADWALL & GUARDRAIL DETAIL
NOT TO SCALE



BOULDER RETAINING WALL DETAIL
NOT TO SCALE

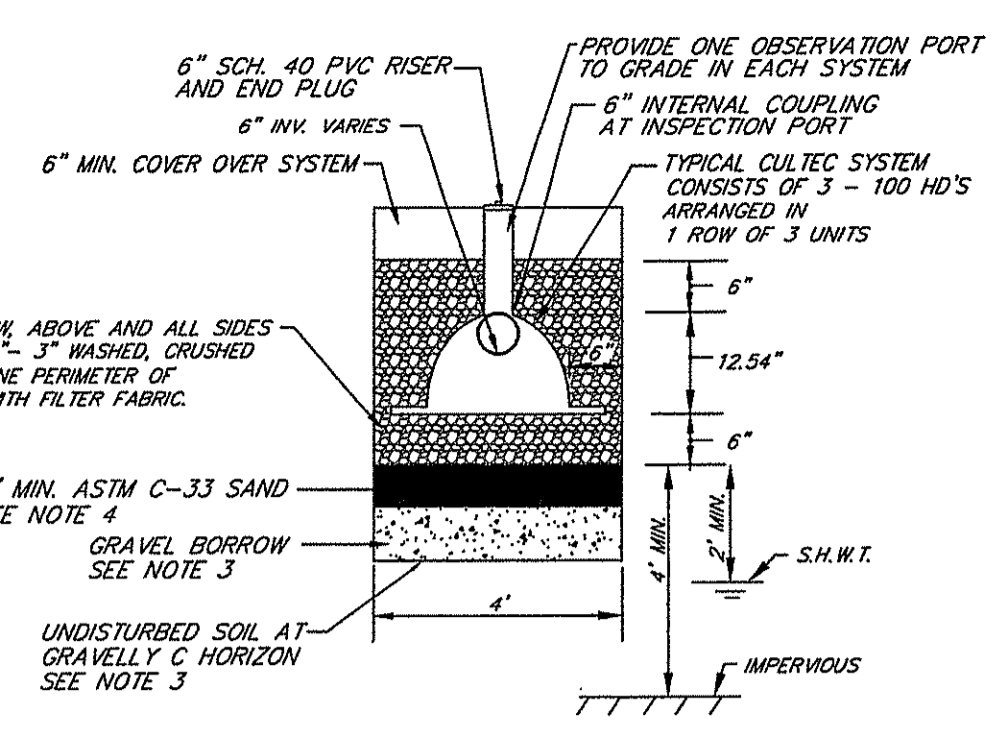
REVISION
5-27-15
DATE
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DATE
SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
4298
GUILDFORD, CT 06437
203-530-8350

OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILDFORD, CT 06437
203-530-8350

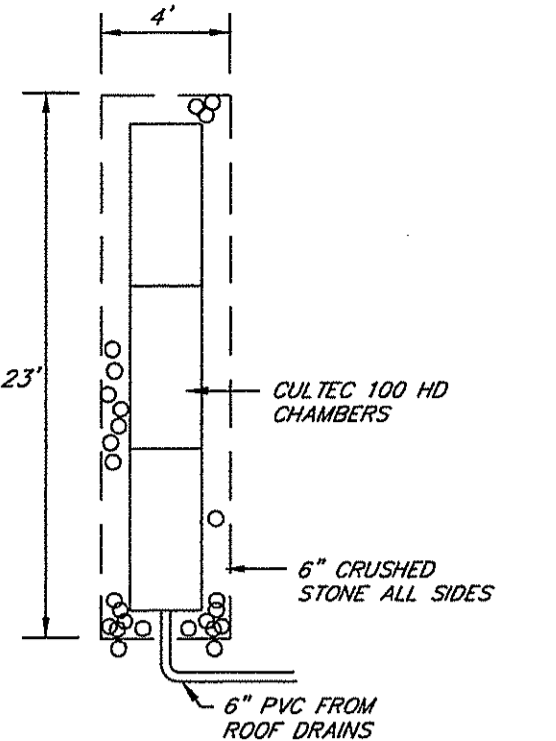
FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

S.F.M. ENGINEERING ASSOCIATES
410 TOGUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NECCOMAIL.COM

SFM
DRN. BY: LBC
CHK. BY: SFM
SCALE: AS NOTED
DATE: JUNE 4, 2014
DWG: SFM78802-A
SHEET 9 OF 14
PRELIMINARY SUBMISSION



TYPICAL CULTEC SECTION
NOT TO SCALE



TYPICAL CULTEC PLAN
NOT TO SCALE

CULTEC NOTES

1. ROOF INFILTRATION SYSTEM AREA SHALL BE PROTECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION TO PREVENT SOIL COMPACTION.
2. CULTEC SYSTEM LOCATIONS AND ELEVATIONS MUST BE SET AND VERIFIED BY THE PROJECT SURVEYOR PRIOR TO INSTALLATION.
3. ALL A, B & C SILT LOAM HORIZONS AND UNSUITABLE MATERIAL IN THE ROOF INFILTRATION AREA SHALL BE REMOVED TO THE GRAVELLY C HORIZON. GRAVEL BORROW SHALL BE REMOVED TO THE GRAVELLY C HORIZON. GRAVEL BORROW SHALL BE REMOVED TO THE GRAVELLY C HORIZON. GRAVEL BORROW SHALL BE REMOVED TO THE GRAVELLY C HORIZON. GRAVEL BORROW SHALL BE REMOVED TO THE GRAVELLY C HORIZON.
4. ASTM C-33 SAND LAYER AND CRUSHED STONE SHALL BE PLACED TO THE DEPTHS NOTED AND APPROVED BY THE PROJECT ENGINEER.
5. CULTEC SYSTEM INSTALLATION MUST BE INSPECTED AND CERTIFIED TO THE TOWN DPH BY THE PROJECT ENGINEER.
6. INFILTRATION SYSTEM CHAMBERS SHALL BE CULTEC RECHARGER 100 HD UNITS WITH A 6" CRUSHED STONE ENVELOPE.
7. STONE AROUND INFILTRATORS SHALL BE 1 1/2" TO 3" WASHED, CRUSHED STONE.
8. FILTER FABRIC LINER SHALL BE MIRAFI 180-N 4, AMOCO 4552 OR EQUAL.
9. ROOF DRAINS SHALL BE 6" PVC OR ADS AT 5'-0" (MIN).

ROOF INFIL. SYSTEM DESIGN DATA

LOT #	GW EL.	BOT. STONE EL.	6" INV. SURF. EL.
5	120.0	123.5	124.5
6	114.0	117.5	118.5
8	117.0	120.5	121.5
9	125.0	128.0	129.0
10	113.0	116.5	117.5

CULTEC MAINTENANCE NOTES

1. THE CULTEC CHAMBERS SHALL BE PERIODICALLY INSPECTED AND MAINTAINED DURING CONSTRUCTION AND A MINIMUM OF TWICE PER YEAR UPON COMPLETION OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE BY THE OWNER.
3. UPON FINAL ACCEPTANCE, THE LOT OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION AND MAINTENANCE.
4. ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM-LIC PROGRAM.
5. ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.

GENERAL NOTES

1. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-1-2010 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
2. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDED, SEE EROSION CONTROL PROGRAM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
4. IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
5. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, Boulders AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
6. CONSTRUCTION WASTE SHALL BE COLLECTED, REMOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL STATE AND TOWN REQUIREMENTS. TRASH SHALL BE COLLECTED ROUTINELY AND REMOVED FROM SITE FOR DISPOSAL.
7. A SOIL AND EROSION CONTROL PERMIT WILL BE REQUIRED FROM THE TOWN OF EAST GREENWICH. INSPECTIONS SHALL BE SCHEDULED AS REQUIRED.
8. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL RI DEM AND TOWN REGULATIONS AND PERMITS.

SEDIMENTATION CONTROL PROGRAM

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE WETLANDS OR ADJOINING PROPERTIES.
2. BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
3. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
5. CARE SHALL BE TAKEN SO NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
6. ADDITIONAL STRAW BALES, SILT FENCE OR SILT SOCKS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. REFERENCE THE "RI EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE RI STATE CONSERVATION COMMITTEE, ISSUED 1989 REVISED 2014, AS A GUIDE.

ORDER OF PROCEDURE

1. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR EXCAVATION, THE SITE CONTRACTOR SHALL PHYSICALLY MARK THE ENTIRE LIMIT OF DISTURBANCE. EROSION CHECKS SHALL BE ESTABLISHED AT ALL DOWN GRADIENT LIMITS OF DISTURBANCE AND AS DEPICED ON THE SITE PLANS. TEMPORARY EROSION CHECKS SHALL BE INSTALLED AT LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES. EROSION CHECKS CONSIST OF STRAW BALES, SILT FENCE OR SILT SOCKS.
2. SITE CONTRACTOR SHALL PHYSICALLY MARK THE BOTTOM AREAS OF THE BIO-RETENTION AREA, INFILTRATION AREA AND STORMWATER BASIN TO PREVENT SOIL COMPACTION OF THE BOTTOMS.
3. ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE SHALL BE CLEARED AND GRUBBED AT ONE TIME. IF CONSTRUCTION ACTIVITY HAS BEEN ESTABLISHED AND THE PROJECT CEASED FOR MORE THAN 14 DAYS, STABILIZATION PRACTICES SHALL BE INITIATED. REFERENCE THE EROSION CONTROL & SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROLS.
4. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
5. EROSION CHECKS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
6. EROSION CHECKS LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

CATCH BASIN SEDIMENTATION BASIN

1. AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE NEW PAVEMENT BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARILY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED AS A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH STRAW BALES AROUND THE COMPLETE PERIMETER, SIMILAR TO R.I. STD. DETAIL 9.8.0. DURING ALL PRELIMINARY STAGES THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
2. SILT SOCKS SHALL REPLACE BALED STRAW EROSION CHECKS FOR FLOT INLET PROTECTION ONCE ROAD IS PAVED.
3. EROSION CHECKS SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPGRADED DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

1. DENUDE SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. THE TOP SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 20.
4. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. SEEDING SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT'S PLANS. FOR AREAS NOT DESIGNATED BY THE L.A., THE DESIGN MIX SHALL COMPLY WITH THE FOLLOWING:
 - A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
CREEPING RED FESCUE	15	APRIL 1-MAY 31
KENTUCKY BLUEGRASS	70	AUG. 15-OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL	100	150 LBS/AC
 - B. UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
CREEPING RED FESCUE	60	APRIL 1-MAY 31
COLONIAL BENTGRASS	5	AUG. 15-OCT. 15
PERENNIAL RYEGRASS	10	
BIRDSEED TREFOIL	15	
TOTAL	150	150 LBS/AC
 - C. CONSERVATION SEEDING AREAS

MIXTURE	% BY WT.	SEEDING DATES
SWITCH GRASS	20	APRIL 1-MAY 31
LITTLE BLUE STEM	20	AUG. 15-OCT. 15
PERENNIAL RYEGRASS	20	
WILDFLOWER MIX	20	
HARD FESCUE	20	
TOTAL	60	60 LBS/AC
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (GURUP, JUTE, FIBERGLASS NETTING, EXCISOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS/AC.
8. ALL STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SEEDING ARE RECOMMENDED:

SPECIES	LBS./1,000 S.F.	LBS./A.C.	SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	5/15 - 8/15
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	1.0	40	4/15 - 6/15
OR RIDOT TEMPORARY SEED MIX AT 75 LBS/AC			
9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCTOBER 15.
11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS SECTION 202.
12. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
13. STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 3:08 AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
14. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

GENERAL NOTE
BALED HAY SHALL ONLY BE USED FOR SHORT TERM EROSION CONTROL OF THREE MONTHS OR LESS. PERMANENT EROSION CONTROLS SHALL BE STRAW BALE, SILT FENCE, SILT SOCK, OR COMBINATION THEREOF.
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 3 2015 FILE # 14-0188
NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles T. Moorehead

REVISION
DATE 5-21-15
DEN WETLAND COMMENTS

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
4298

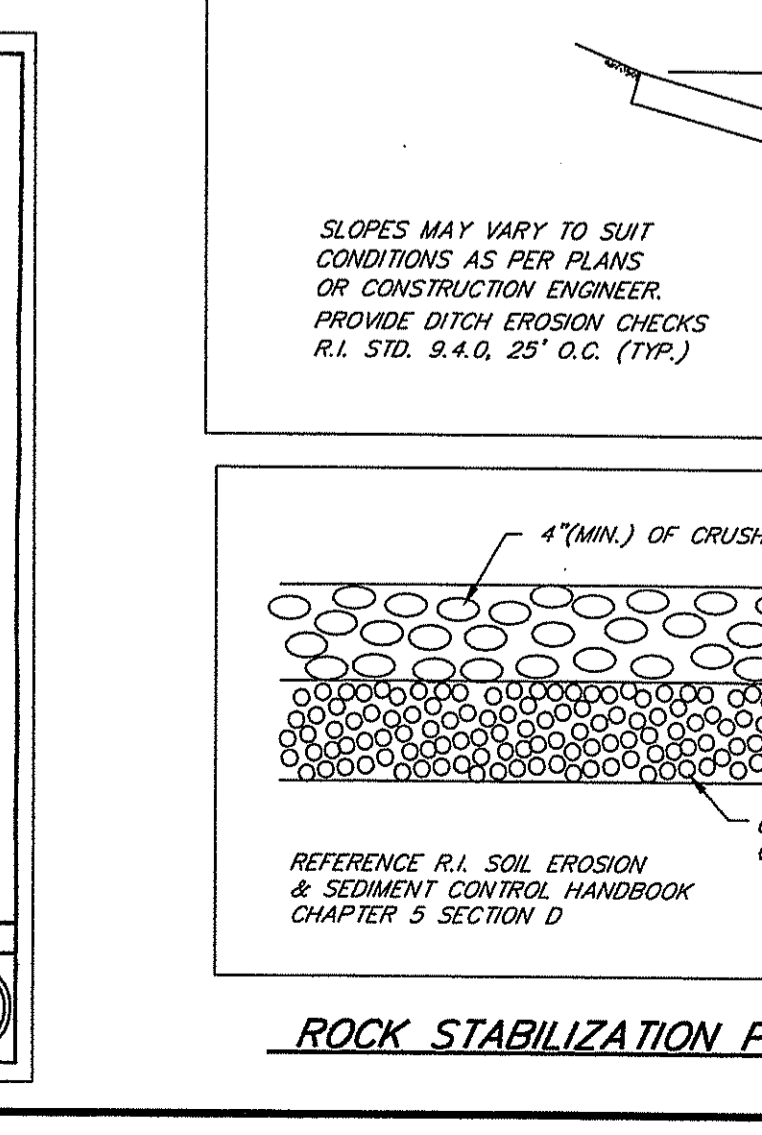
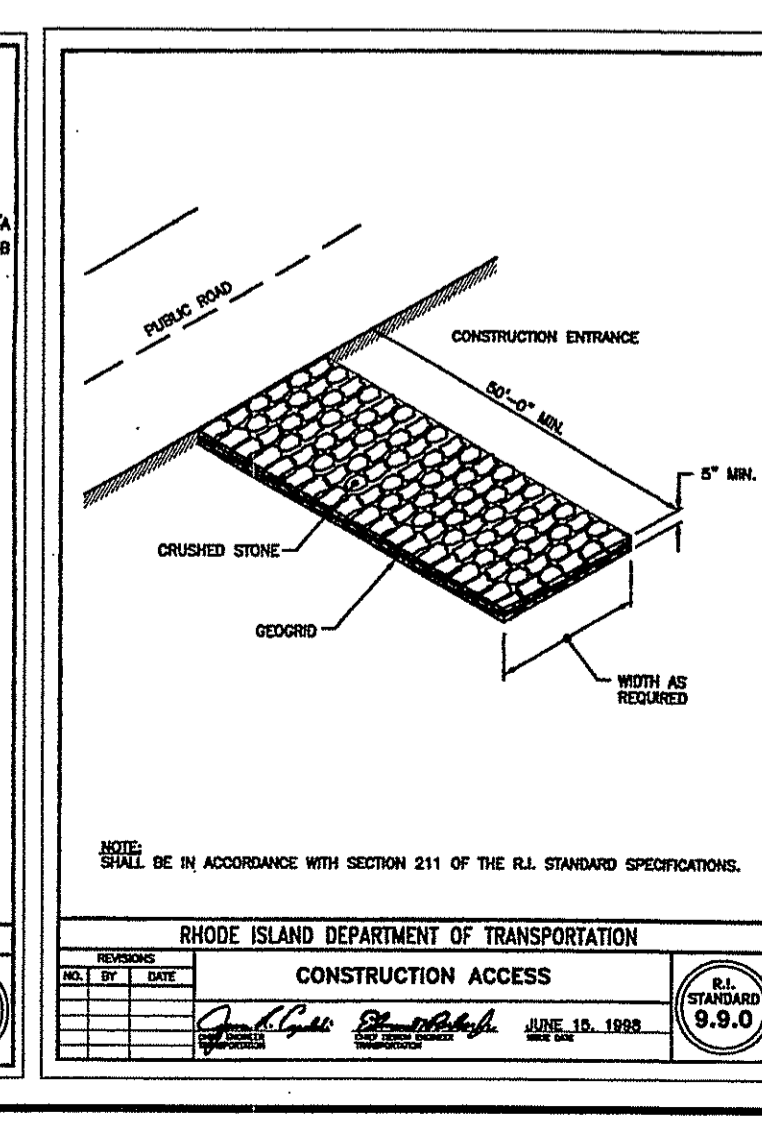
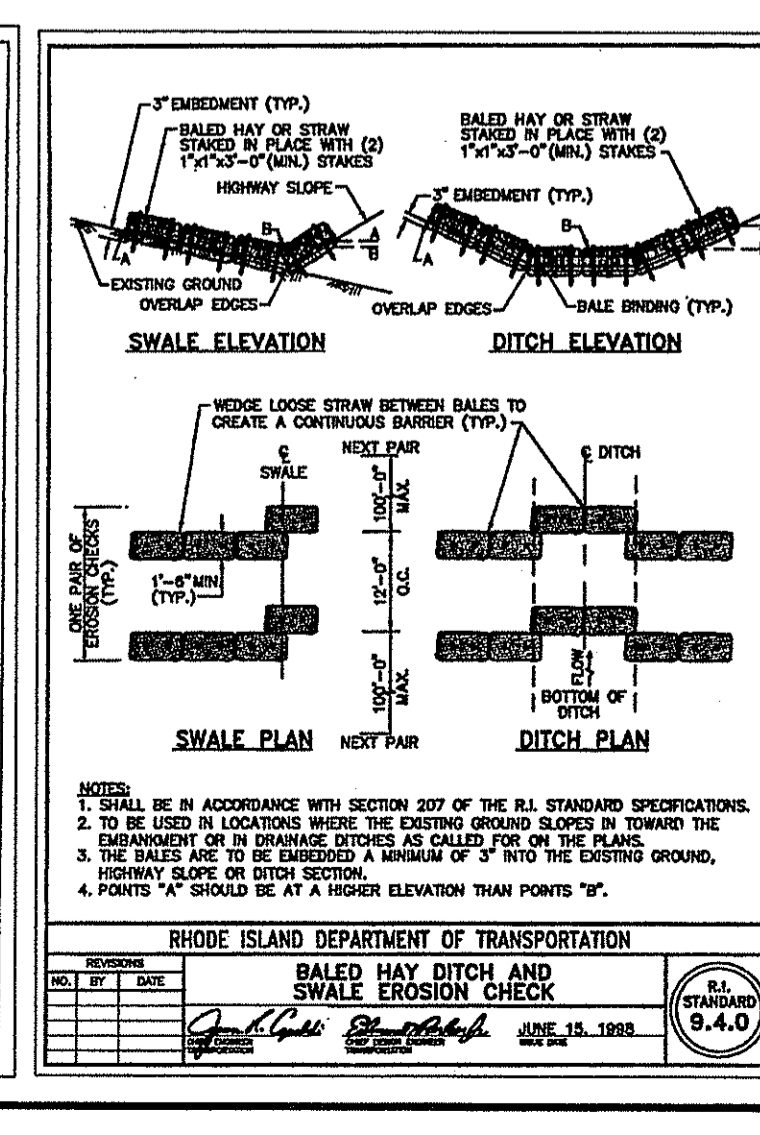
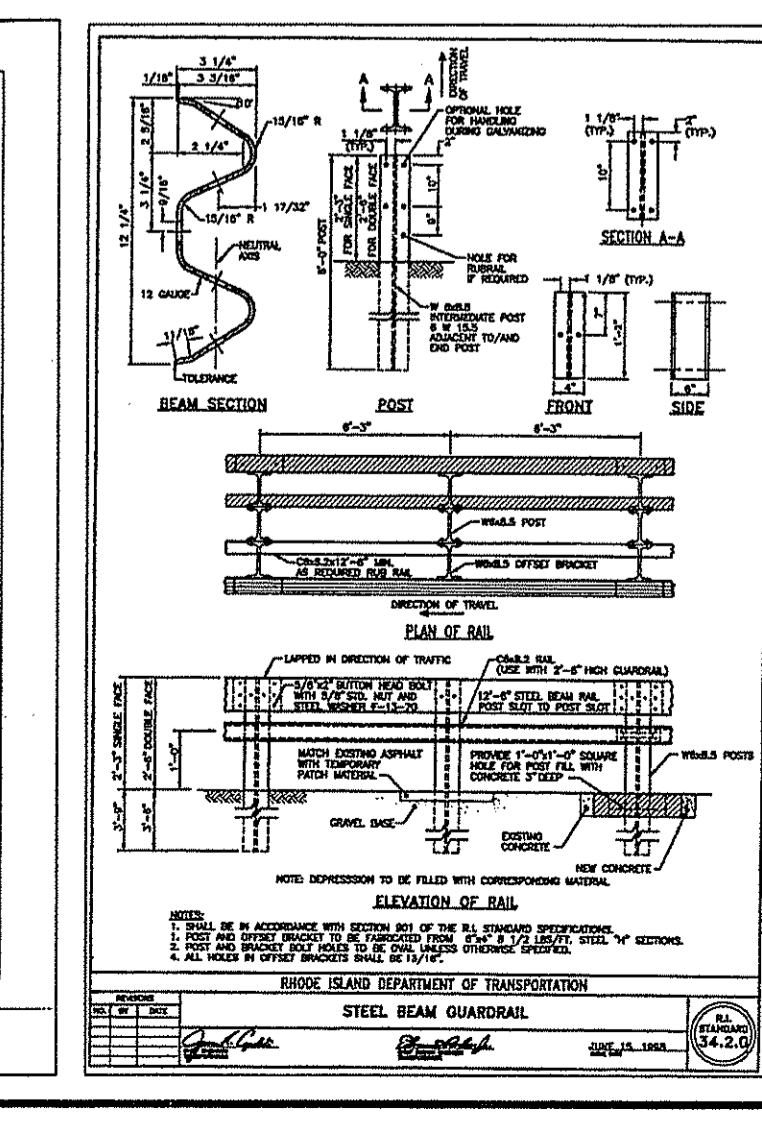
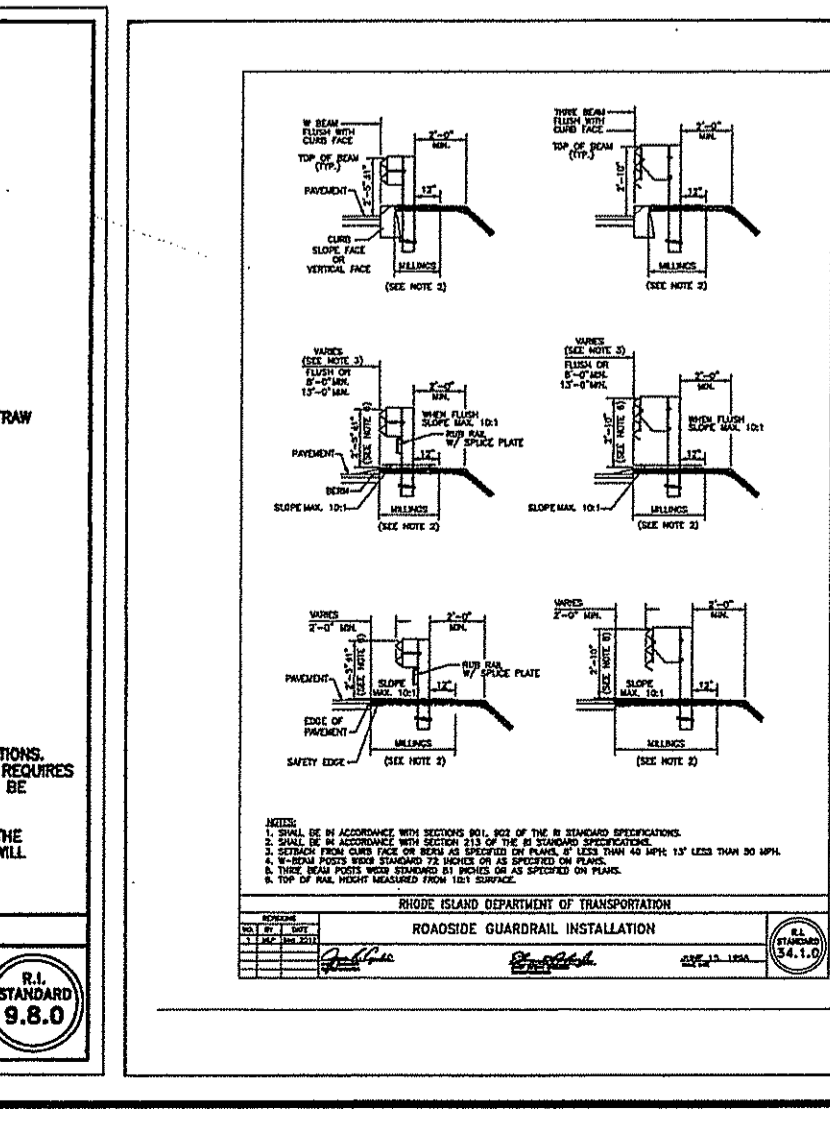
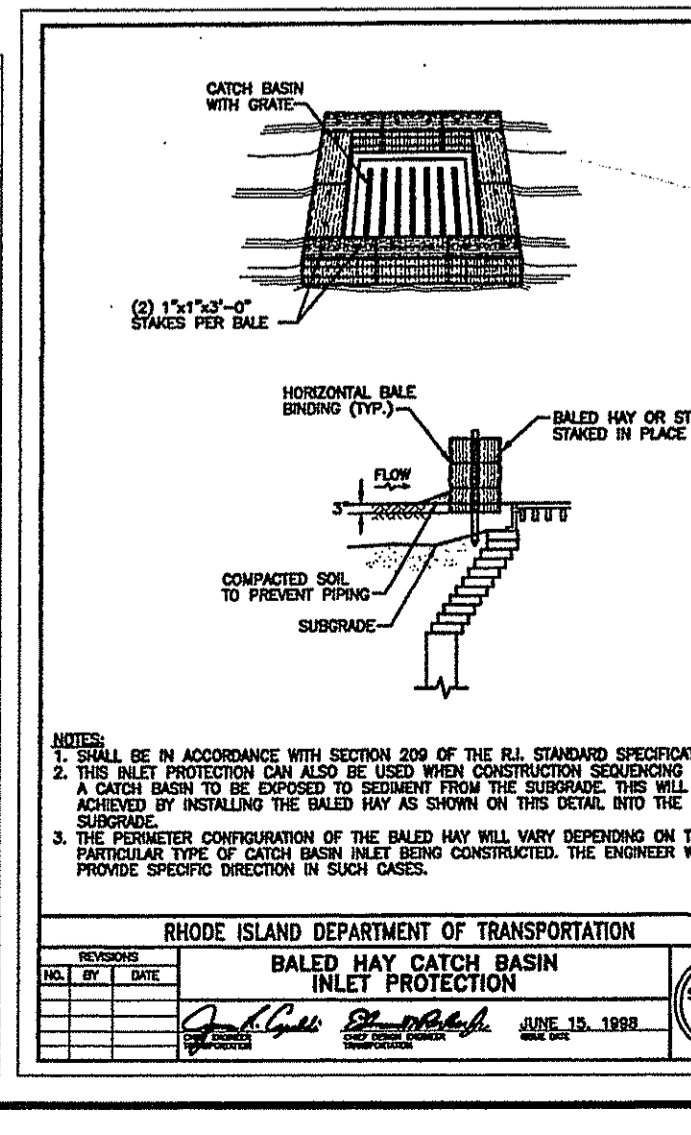
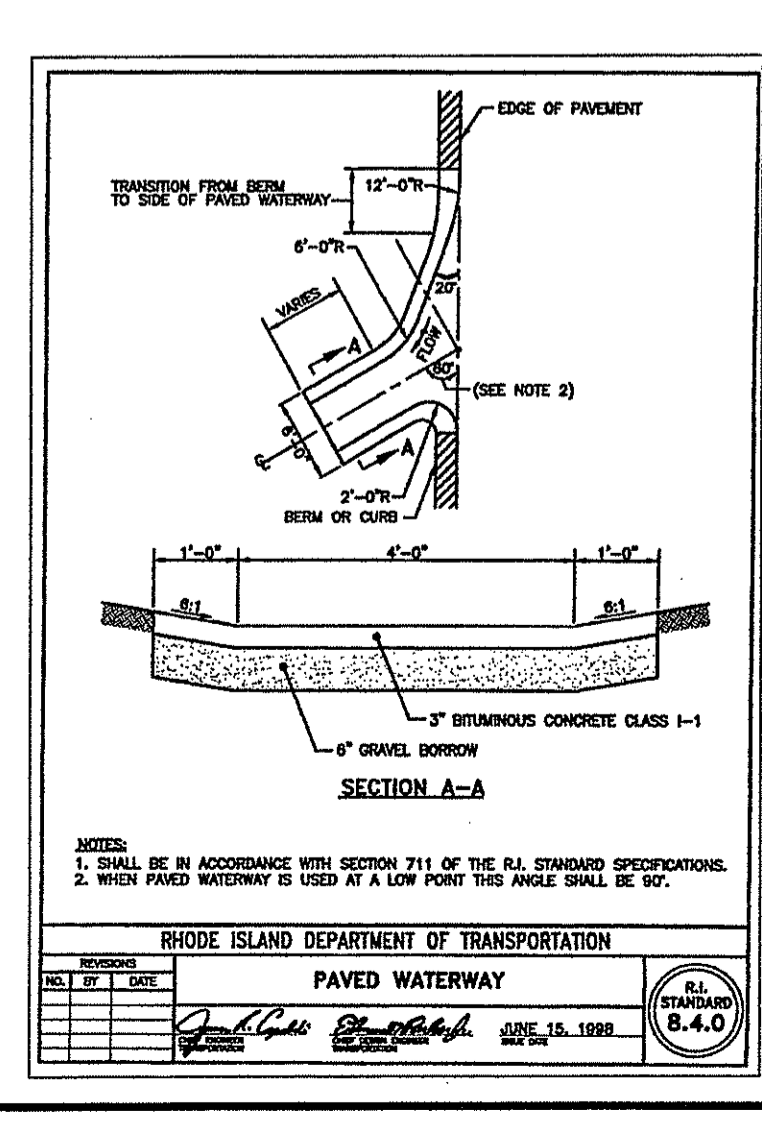
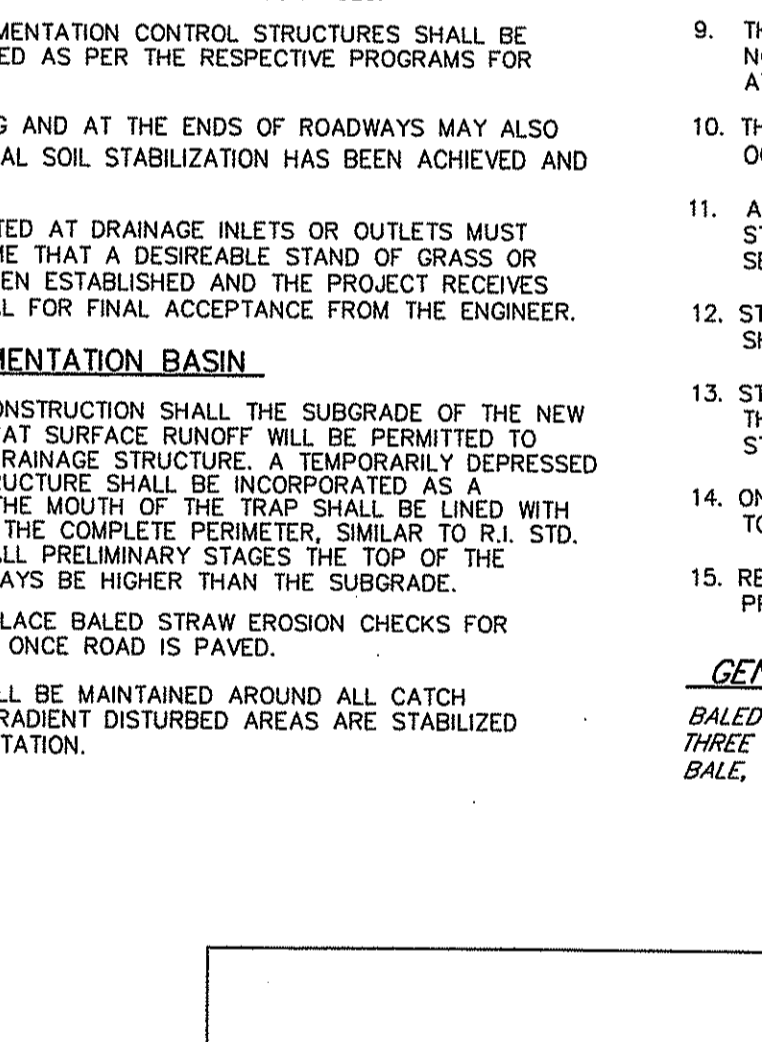
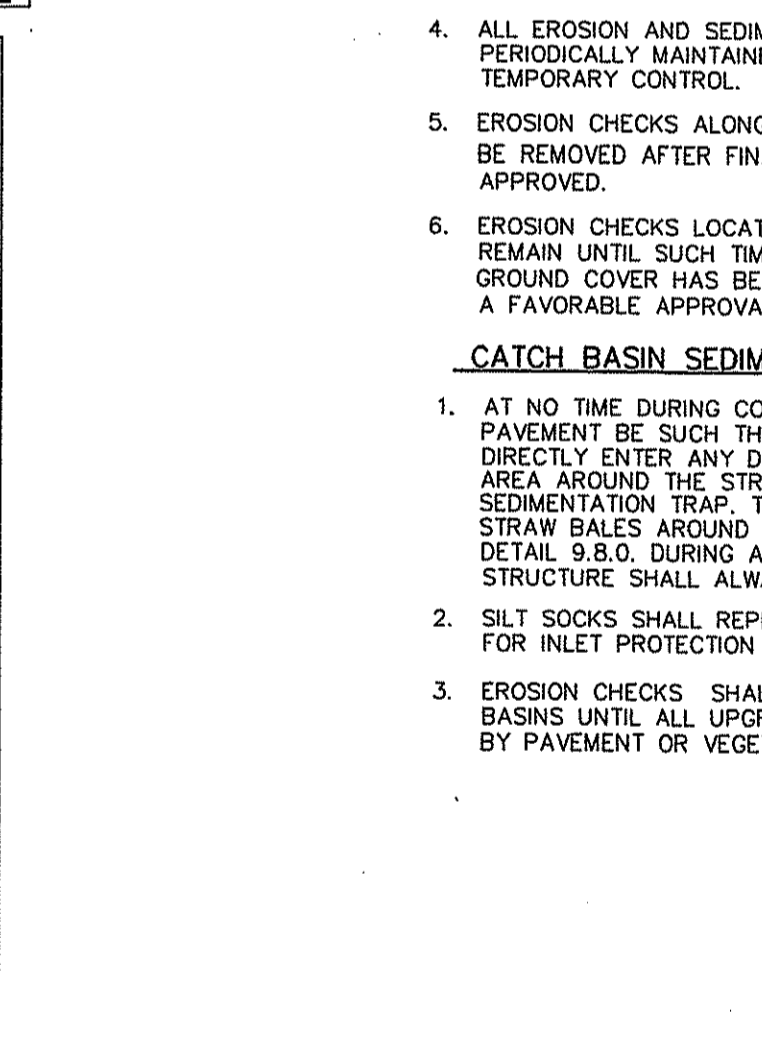
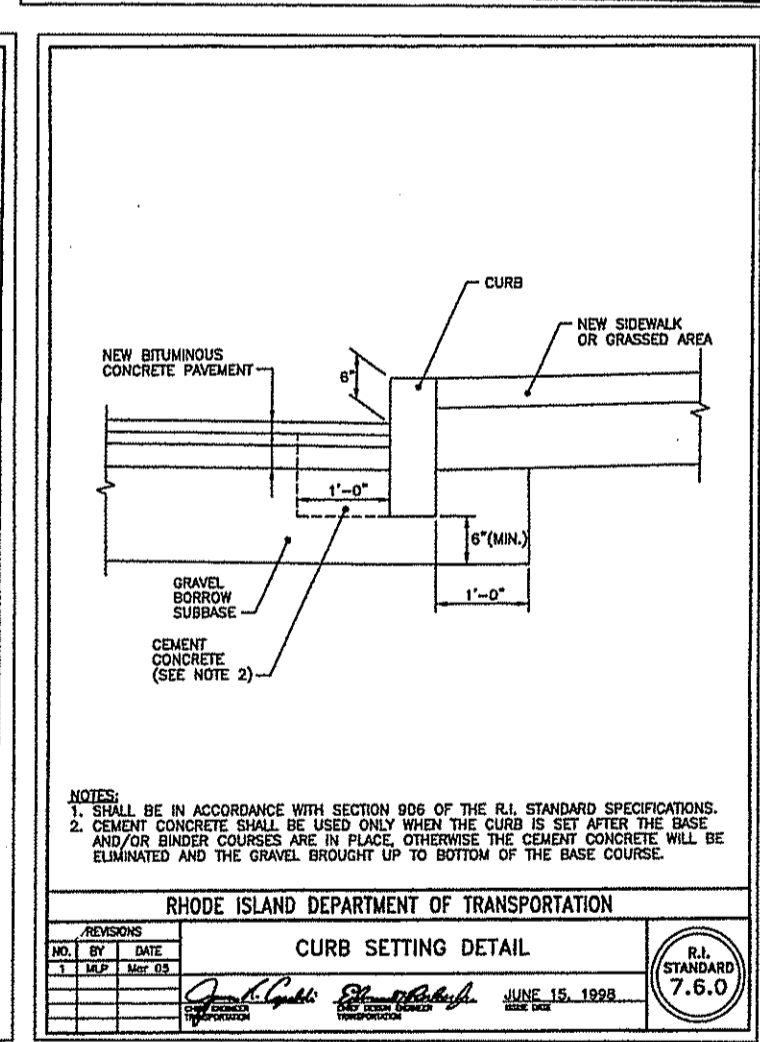
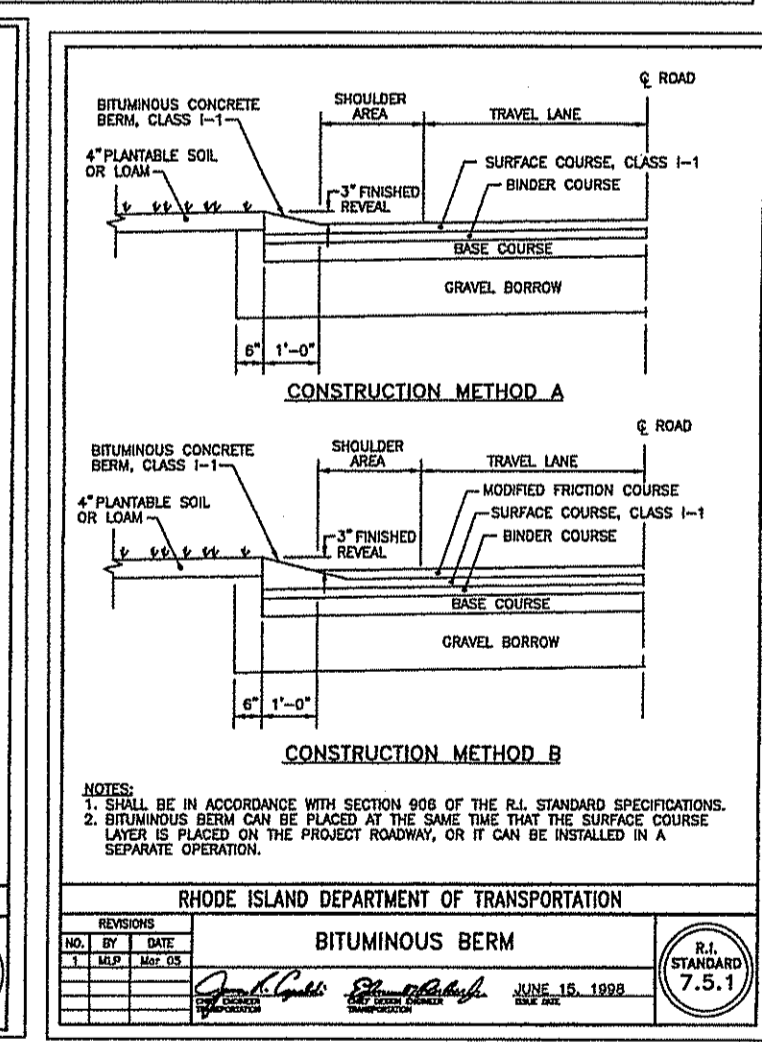
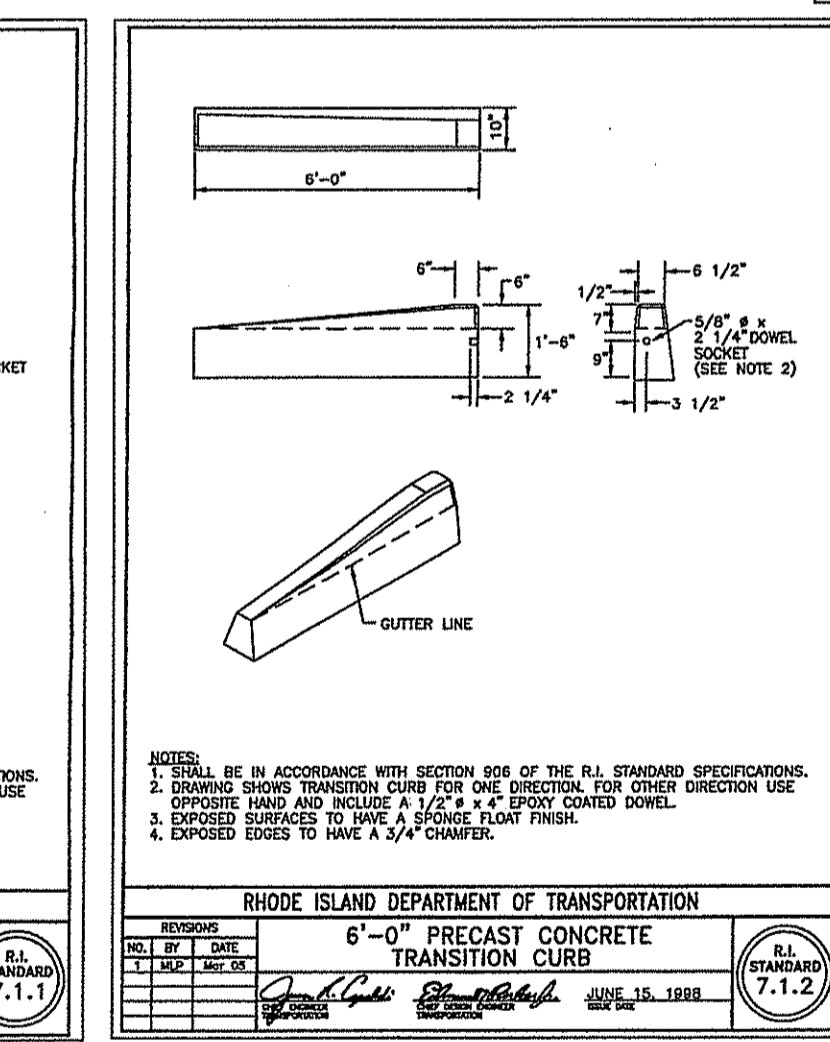
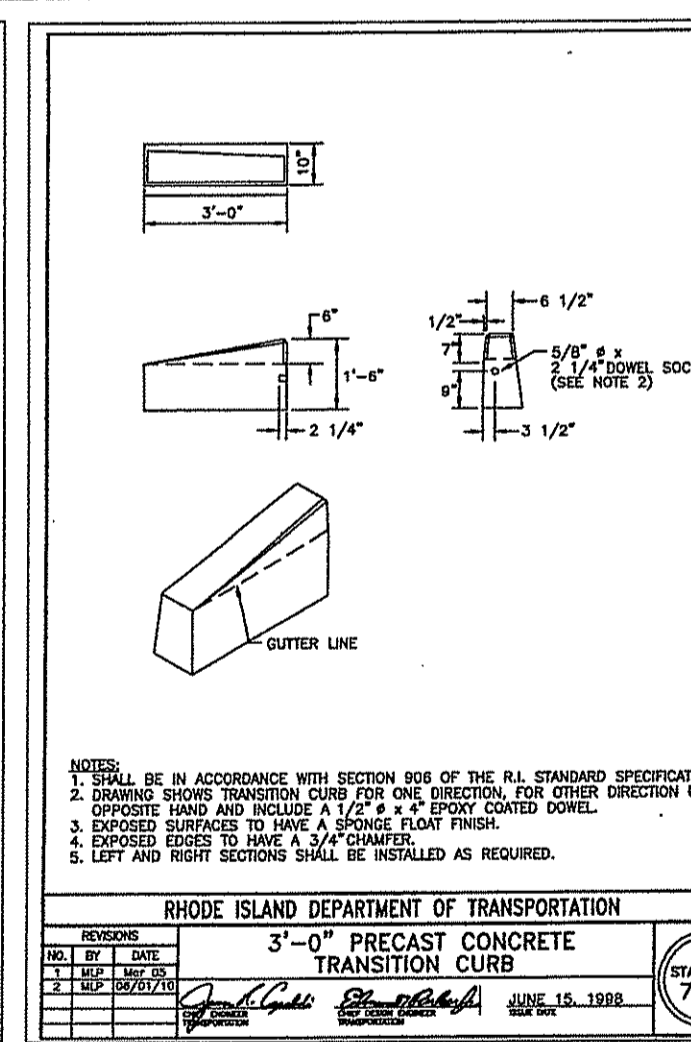
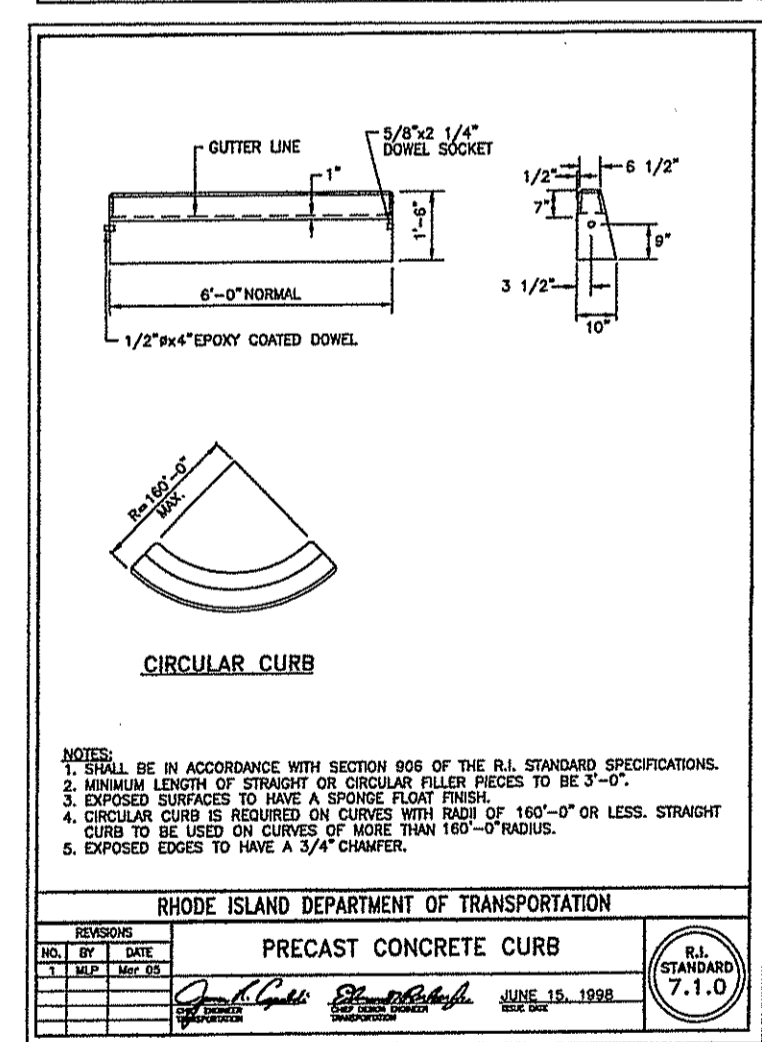
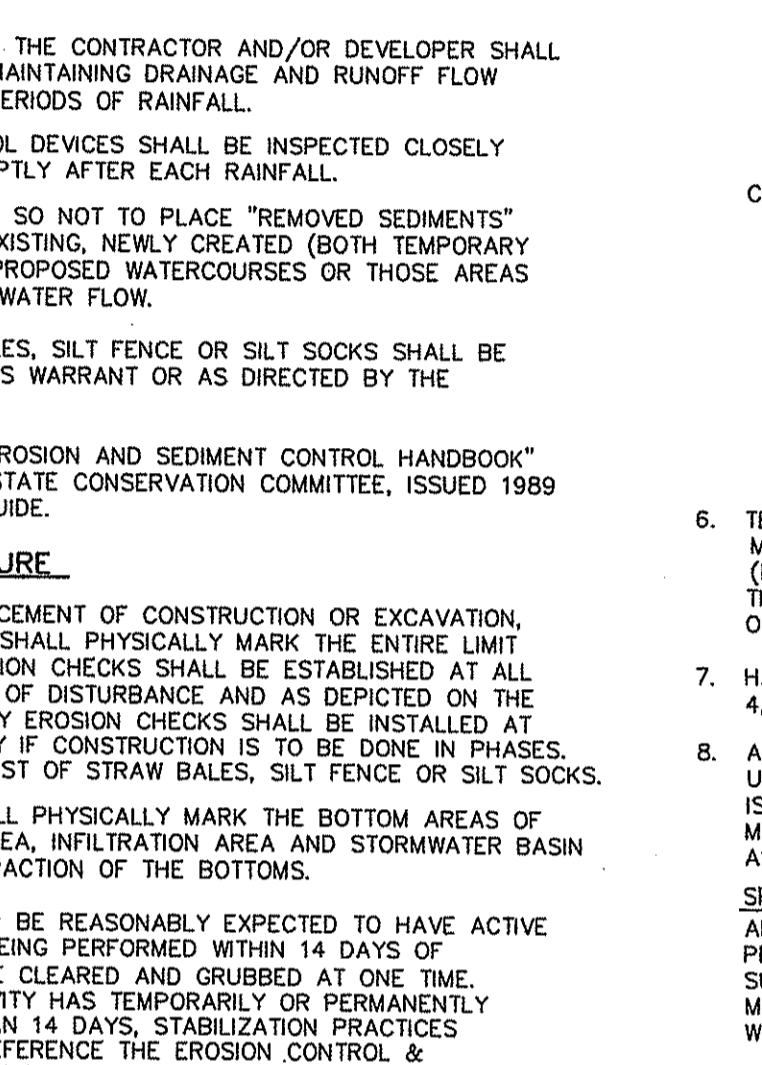
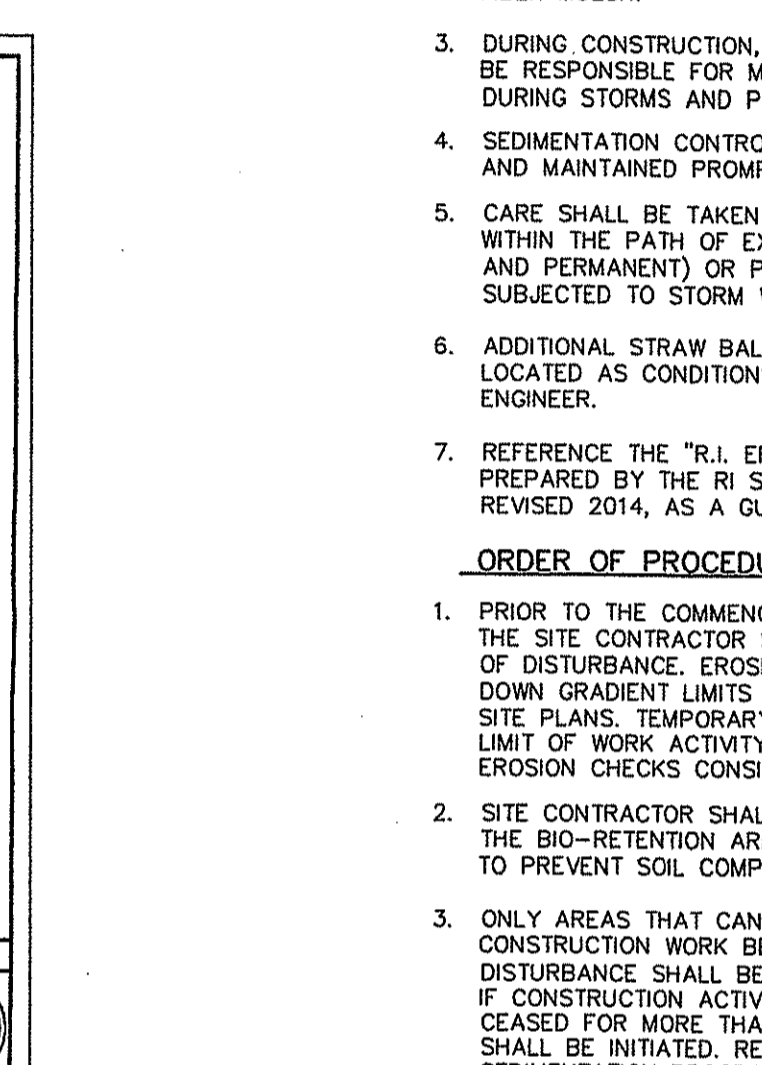
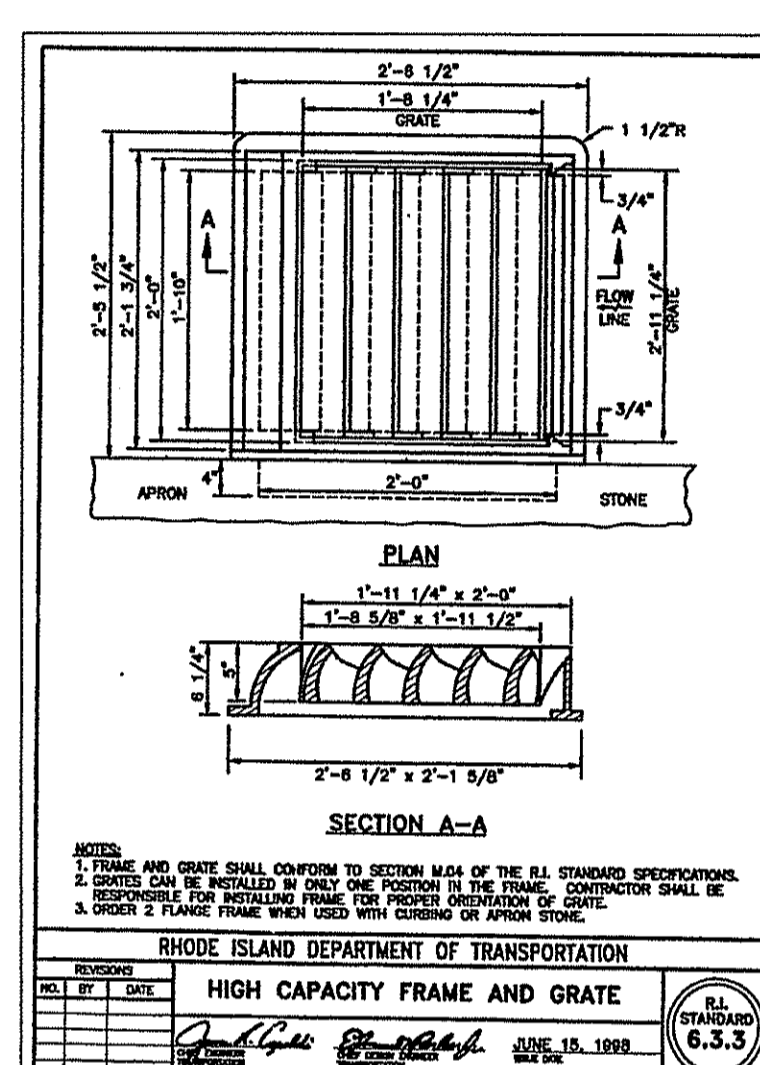
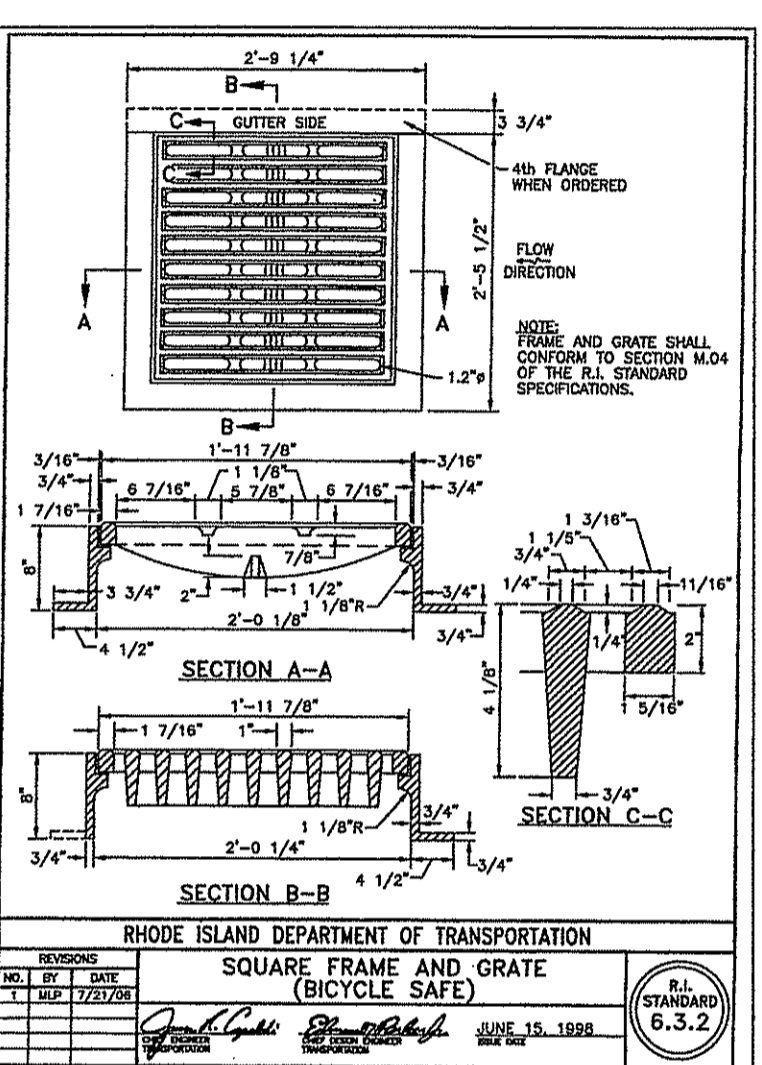
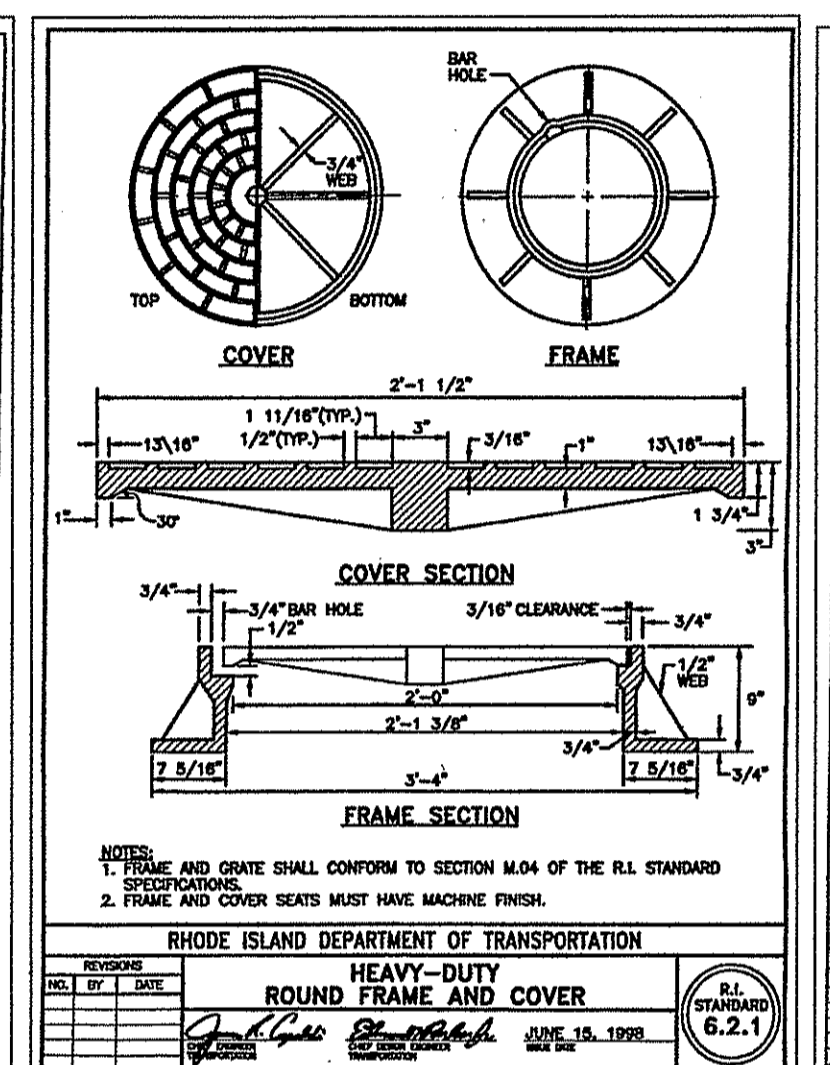
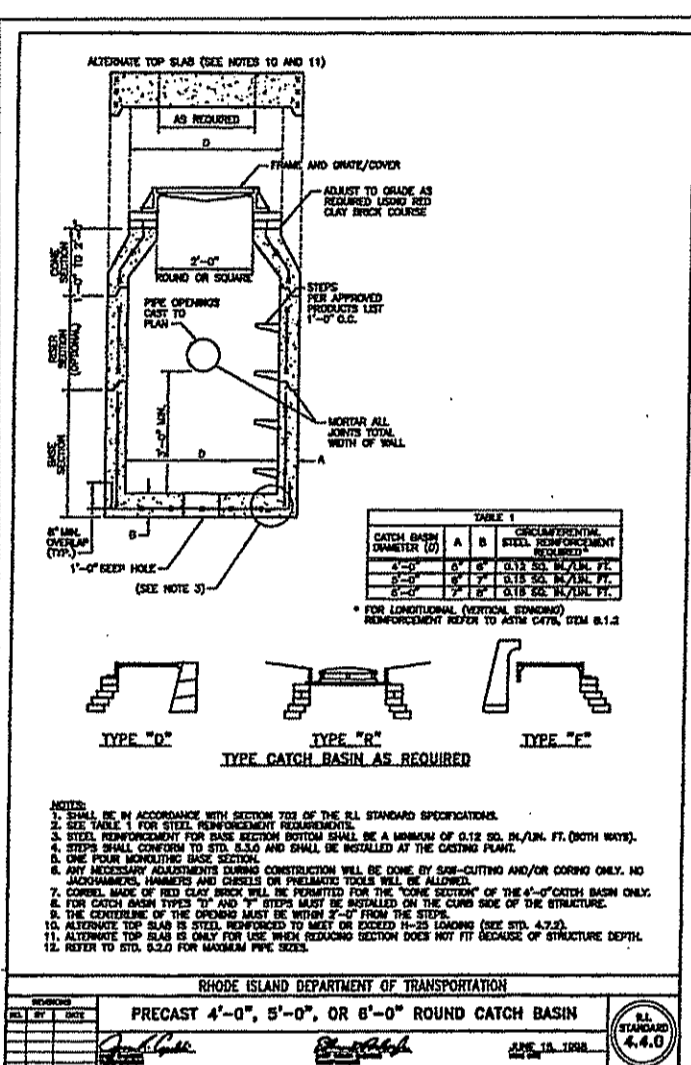
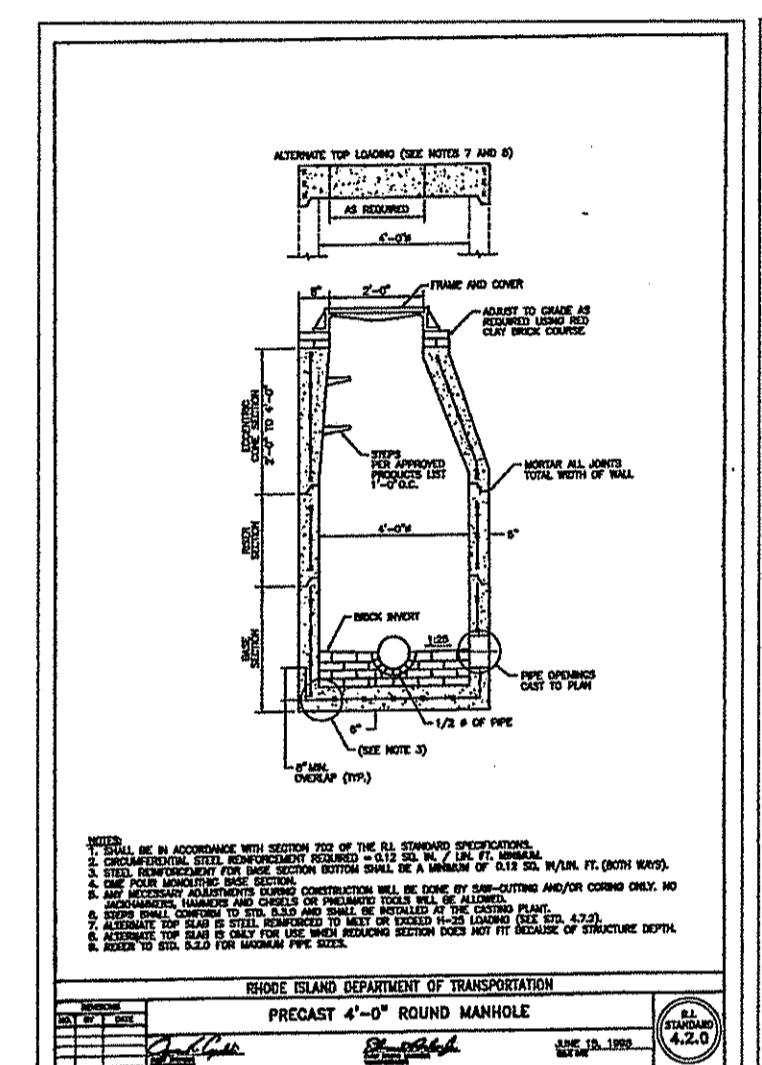
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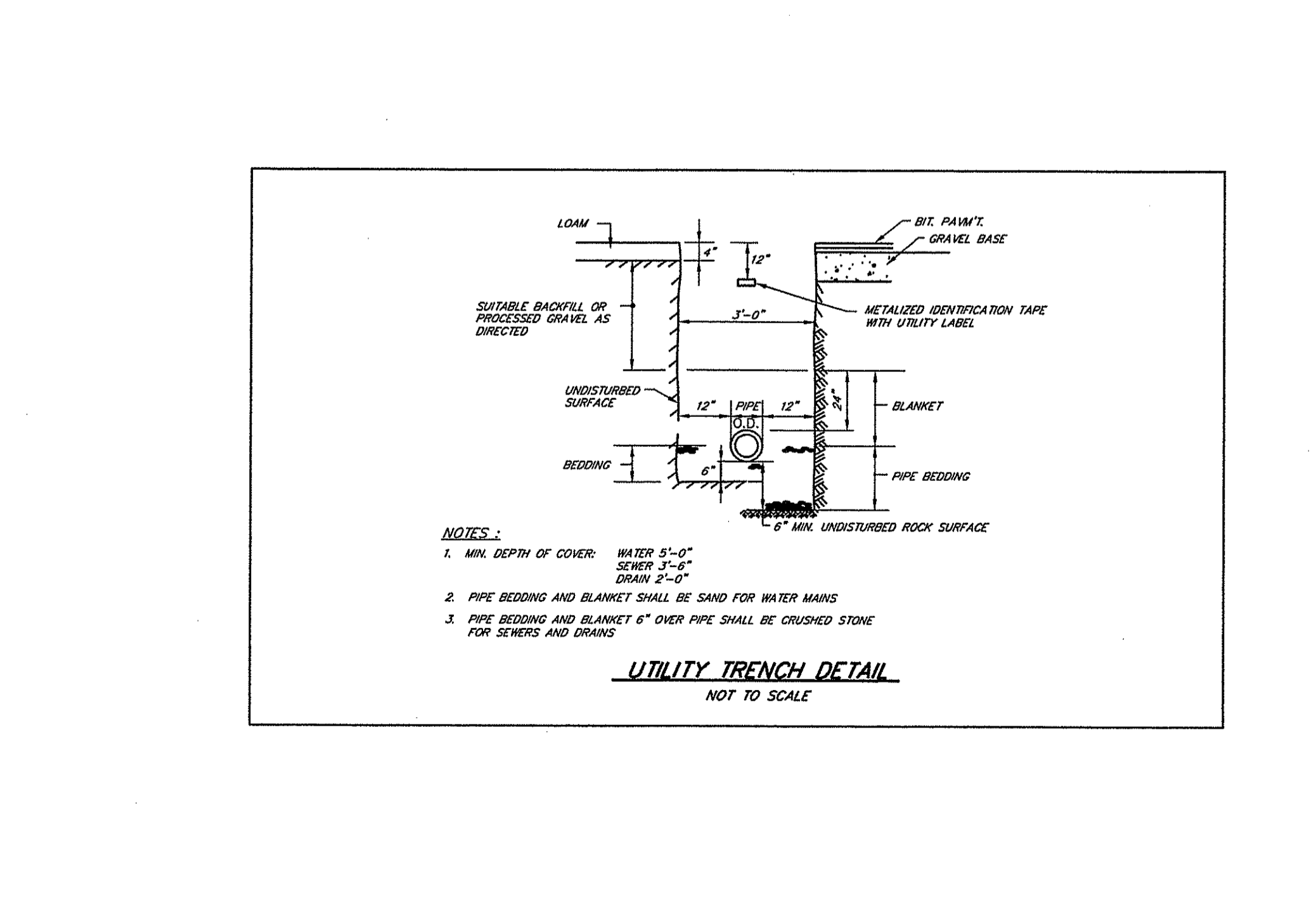
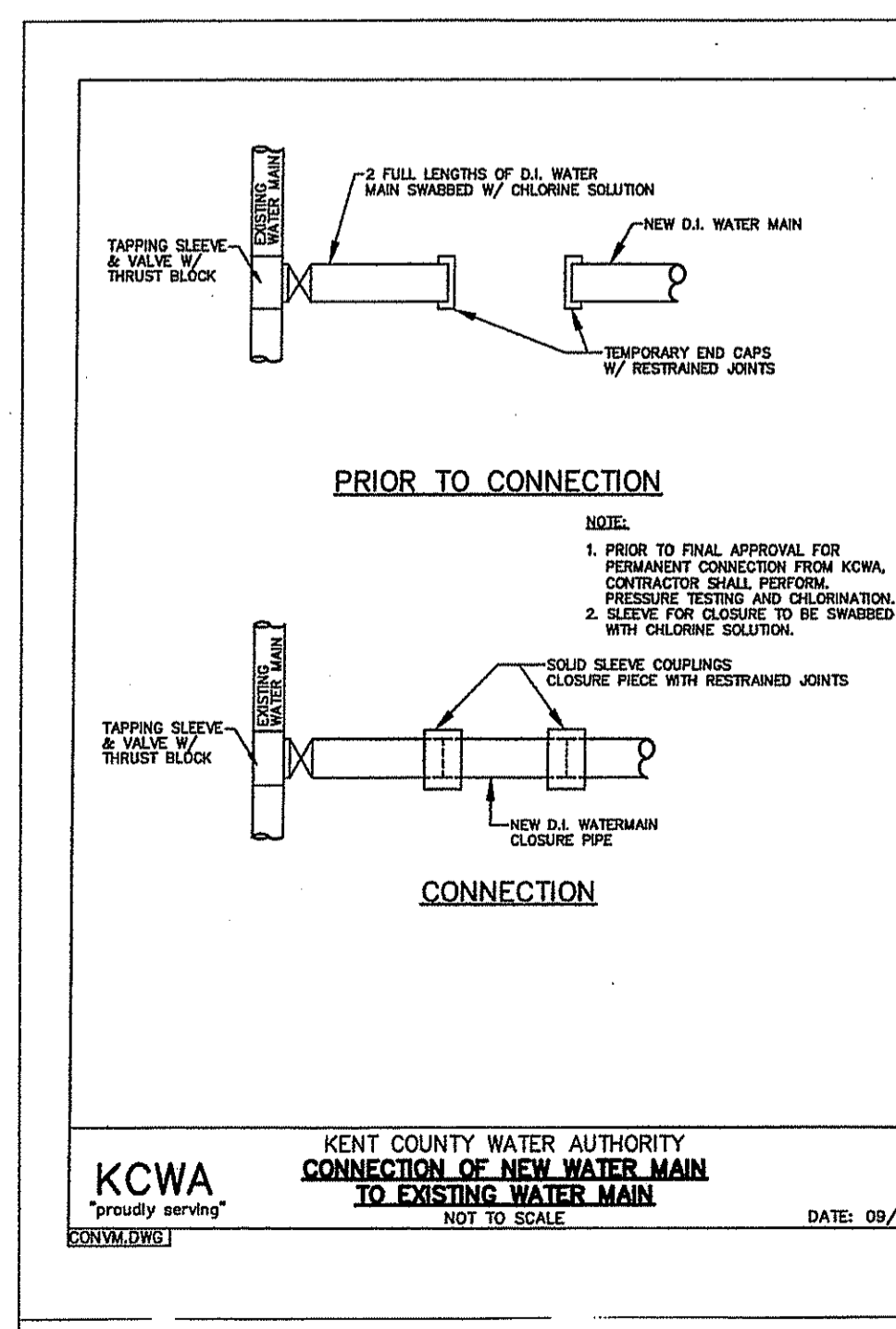
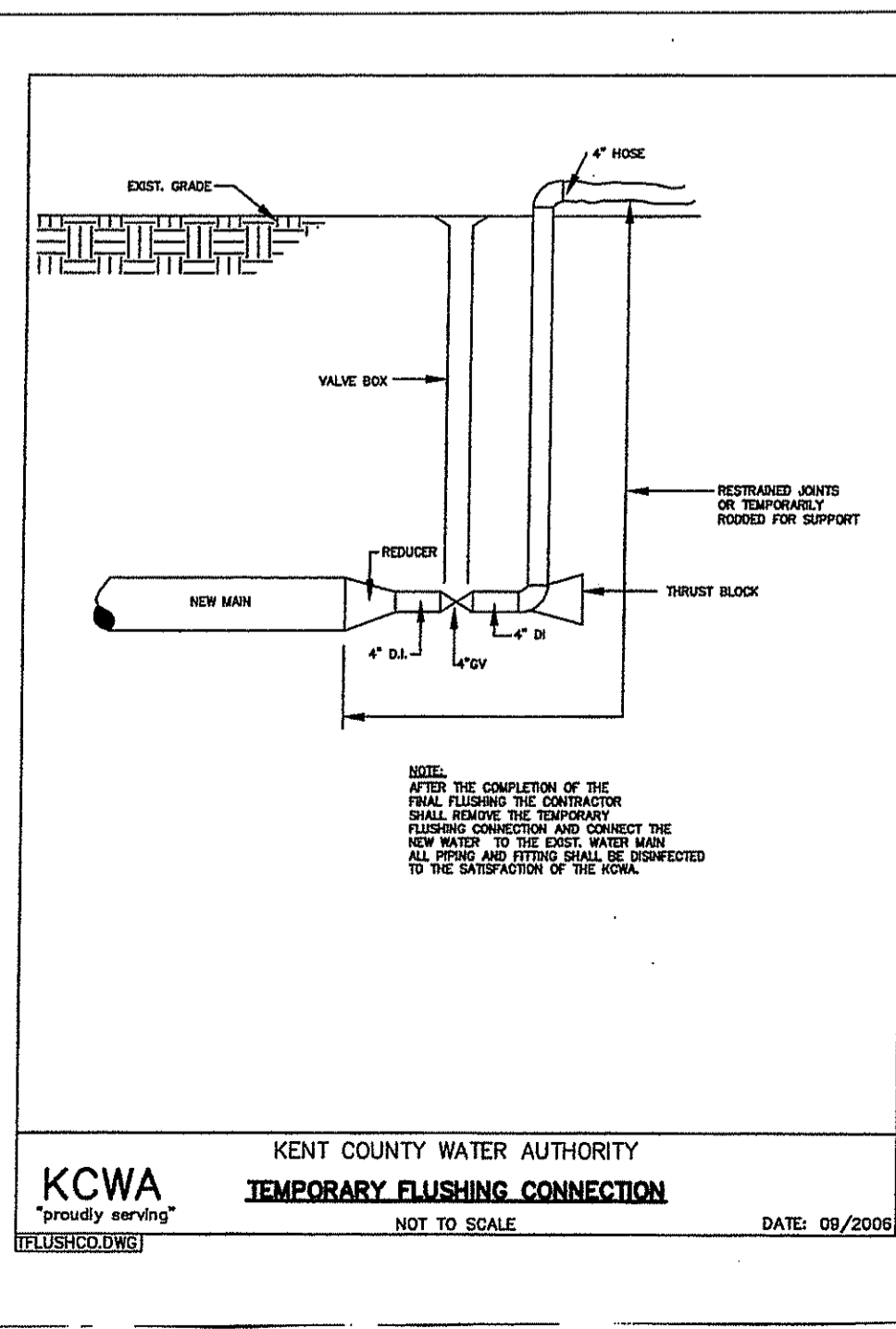
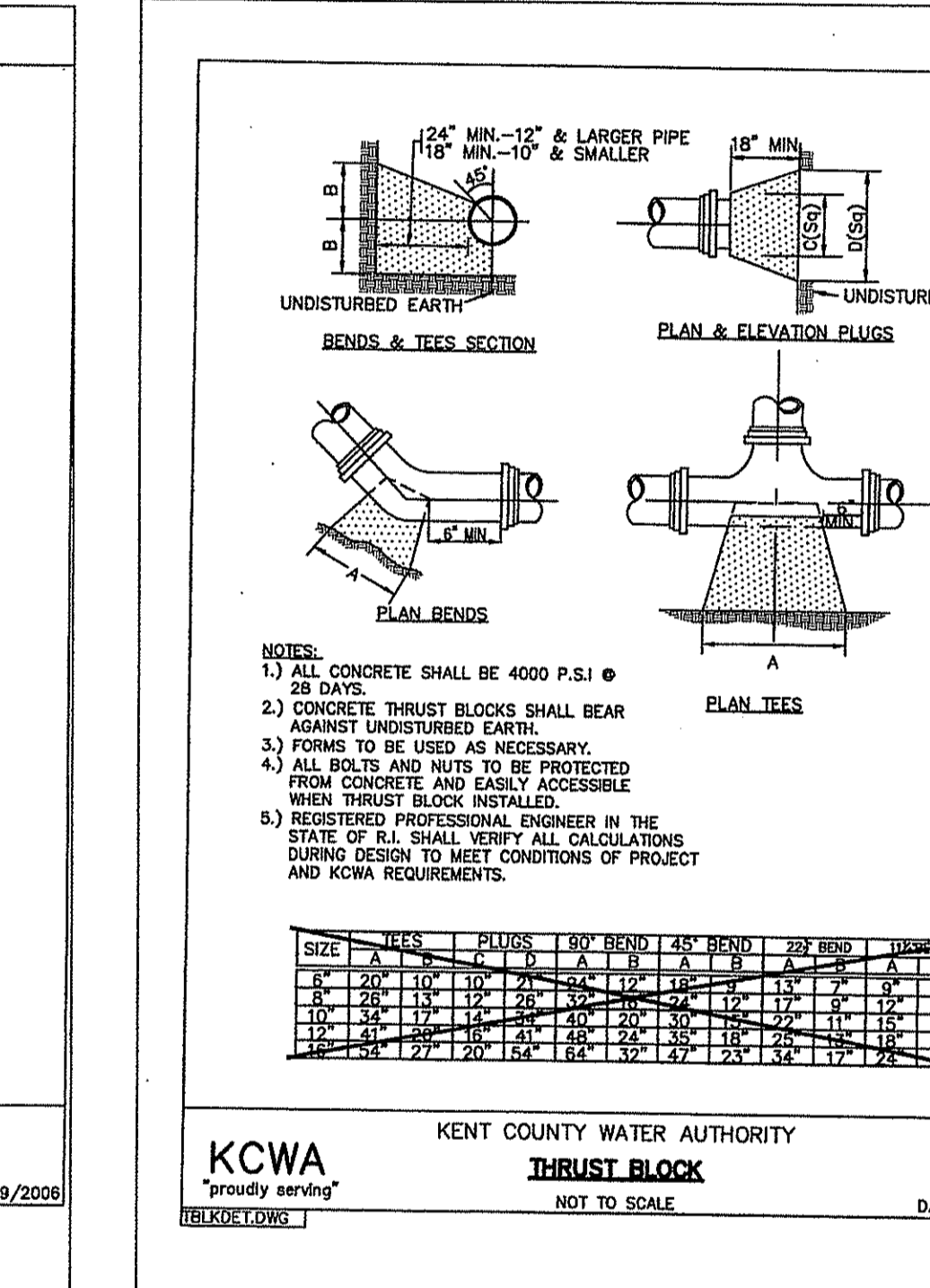
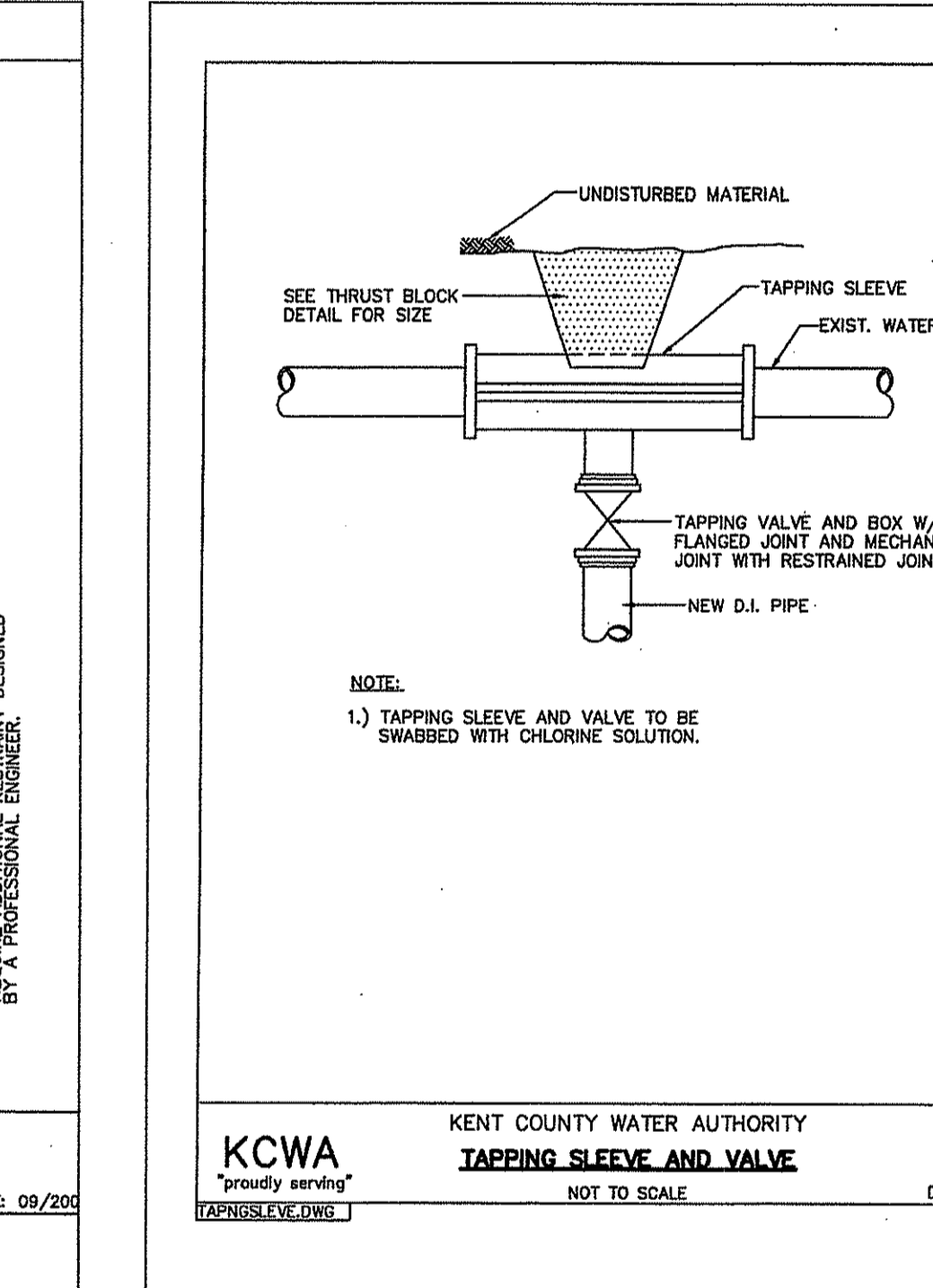
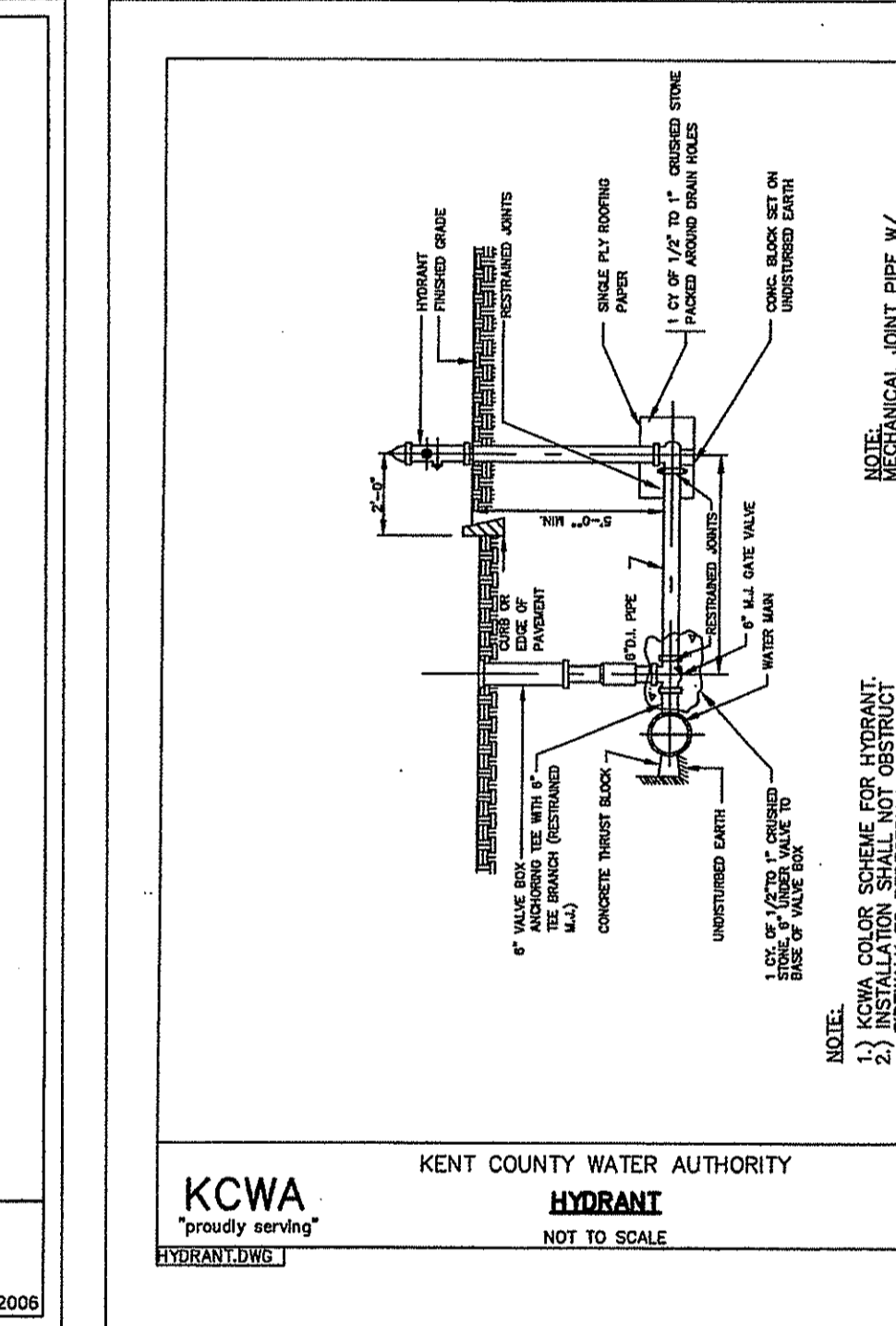
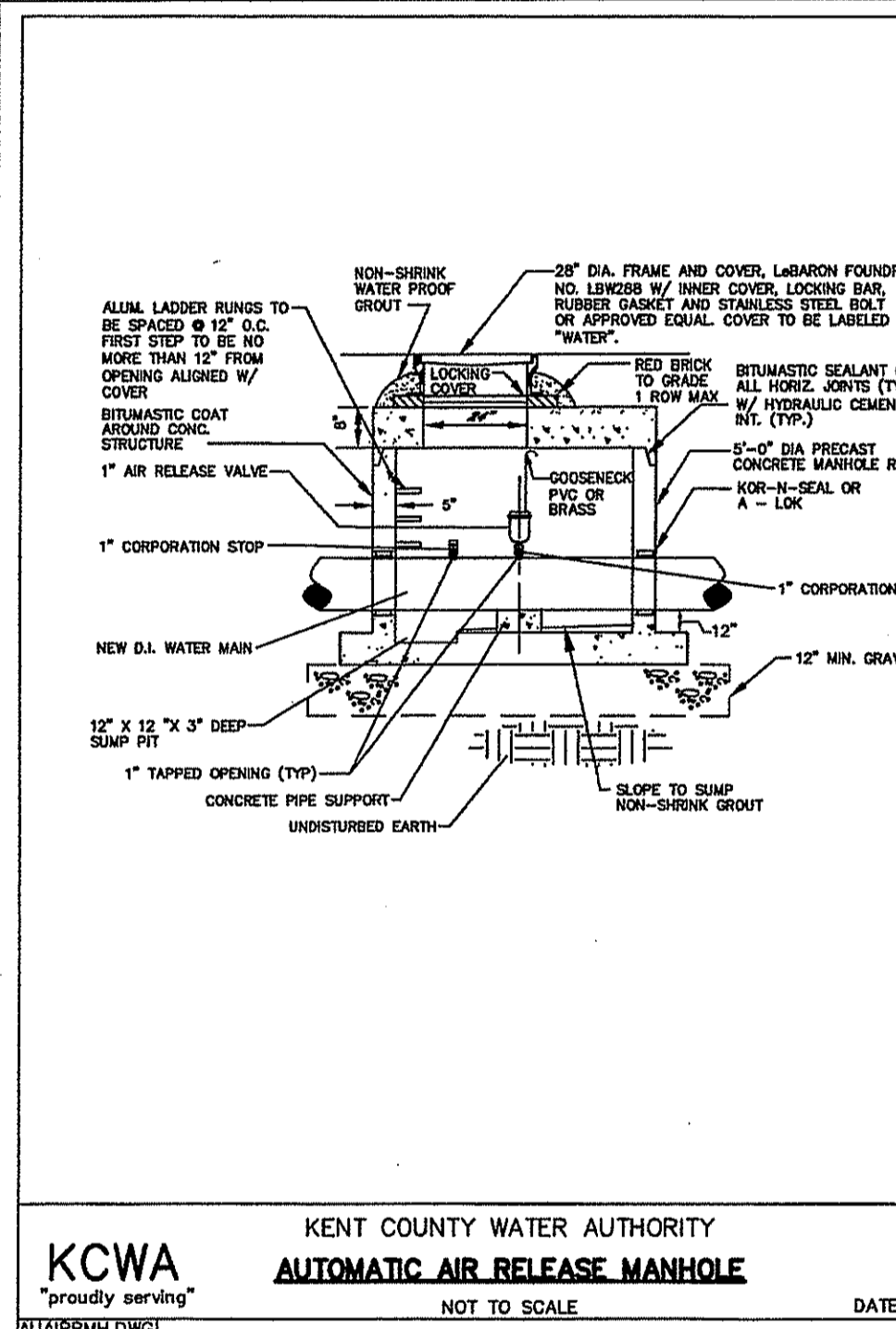
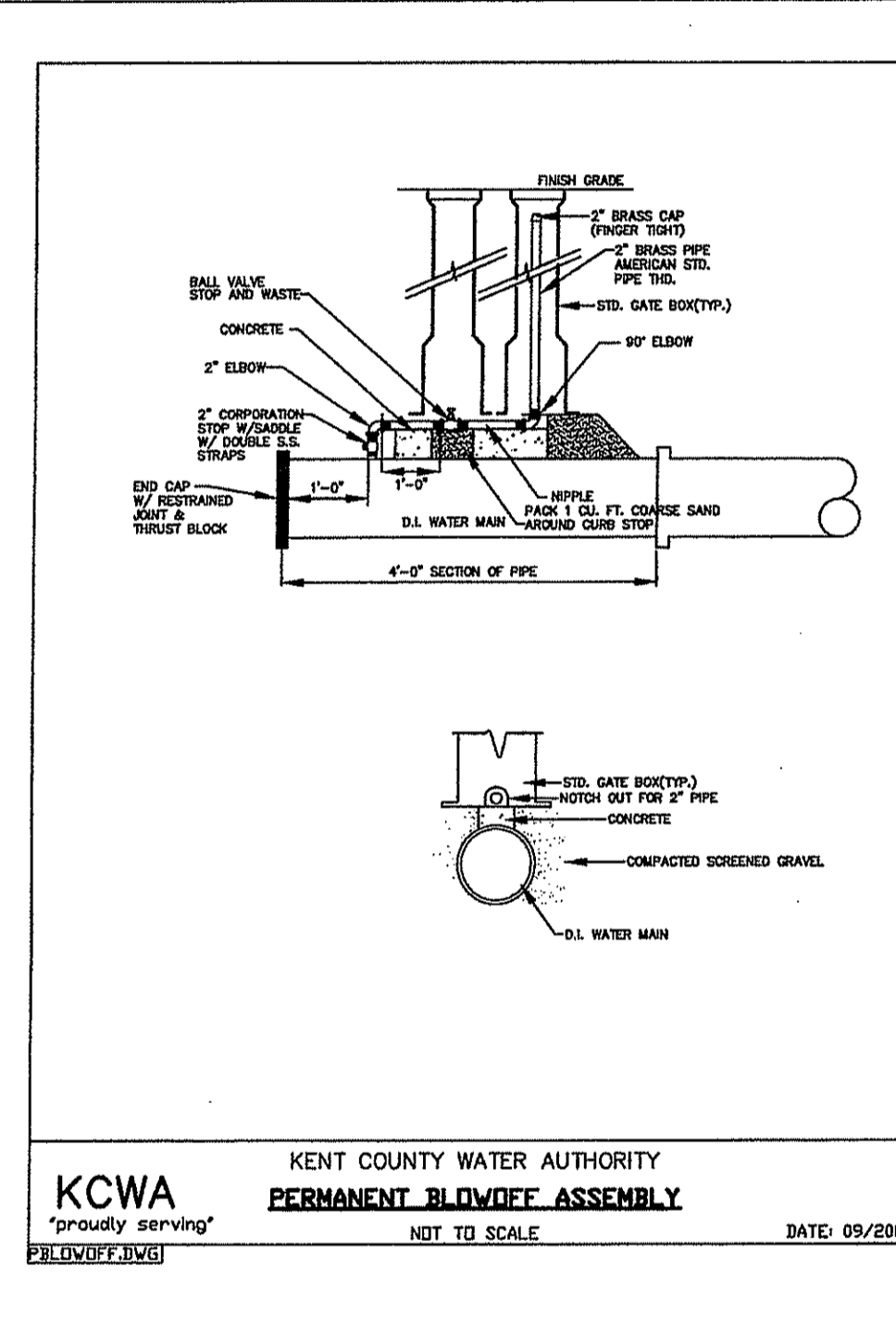
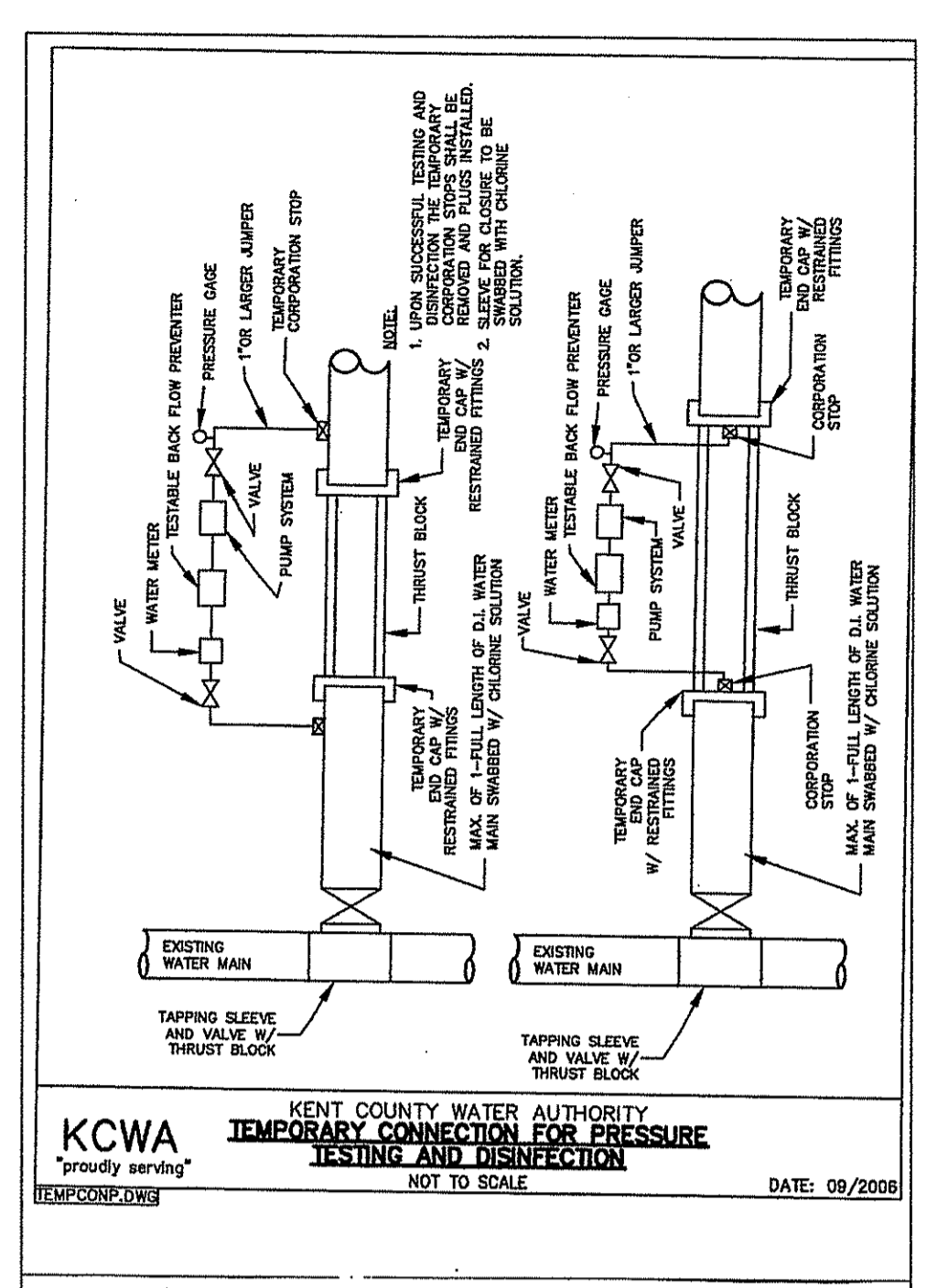
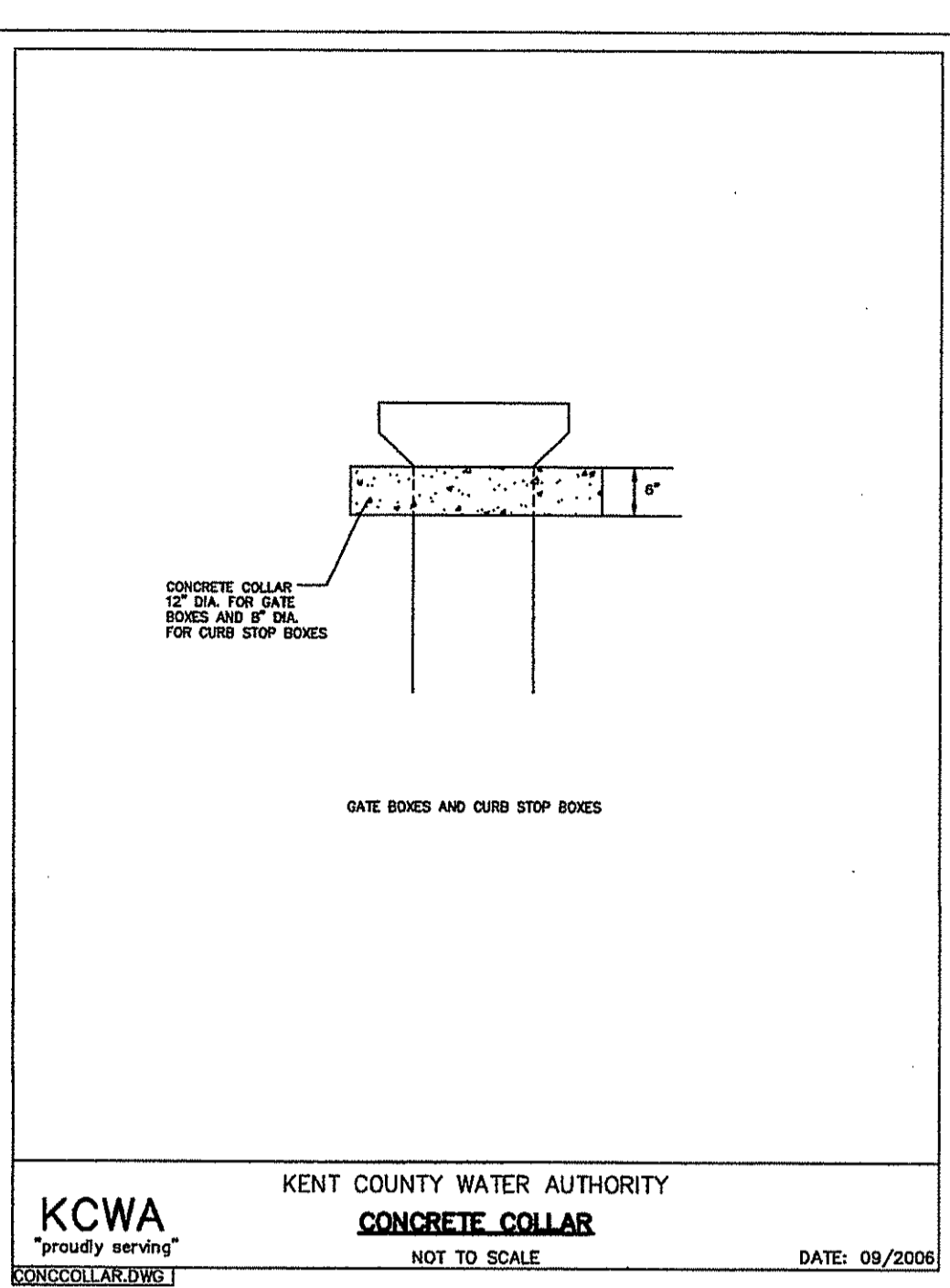
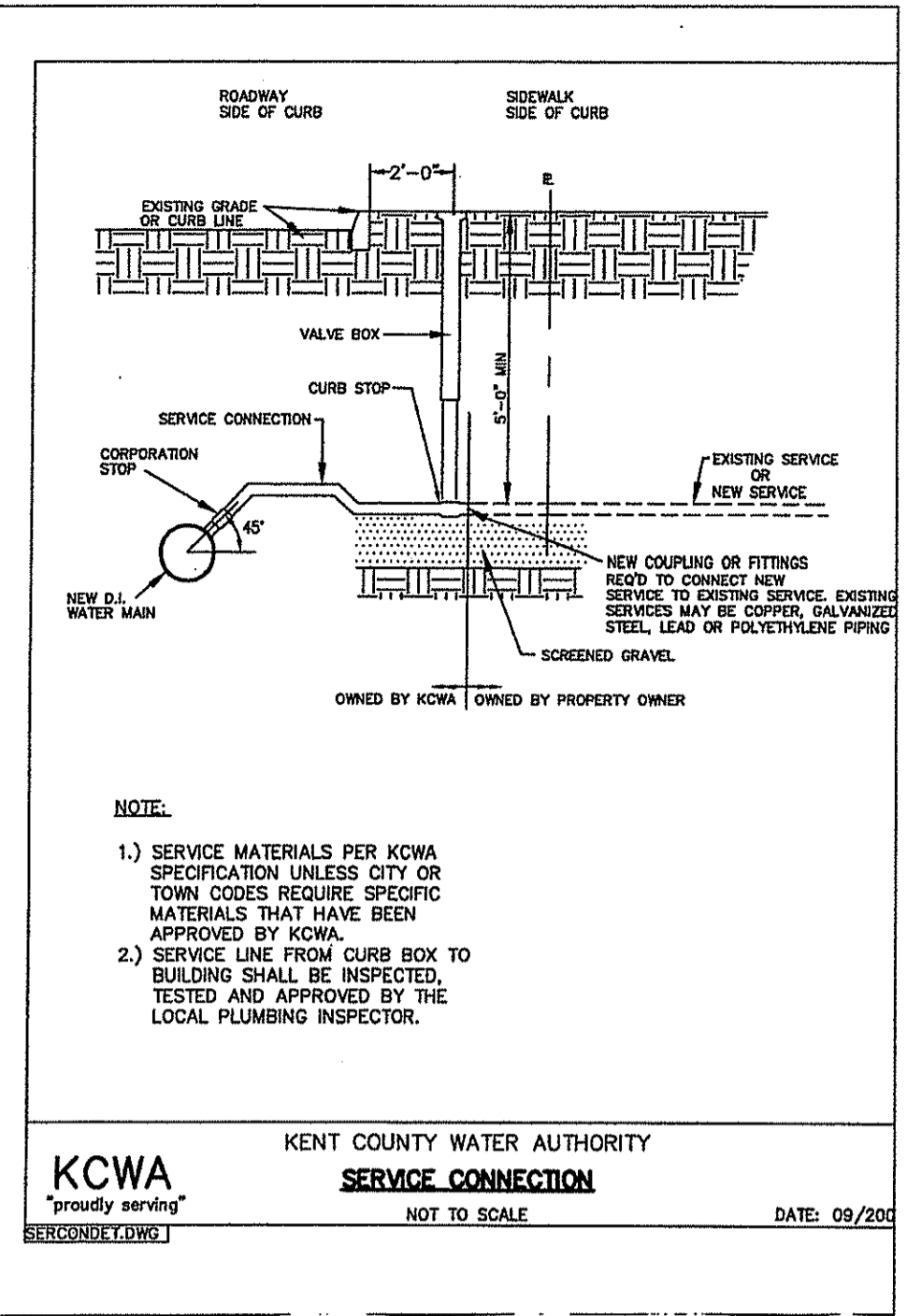
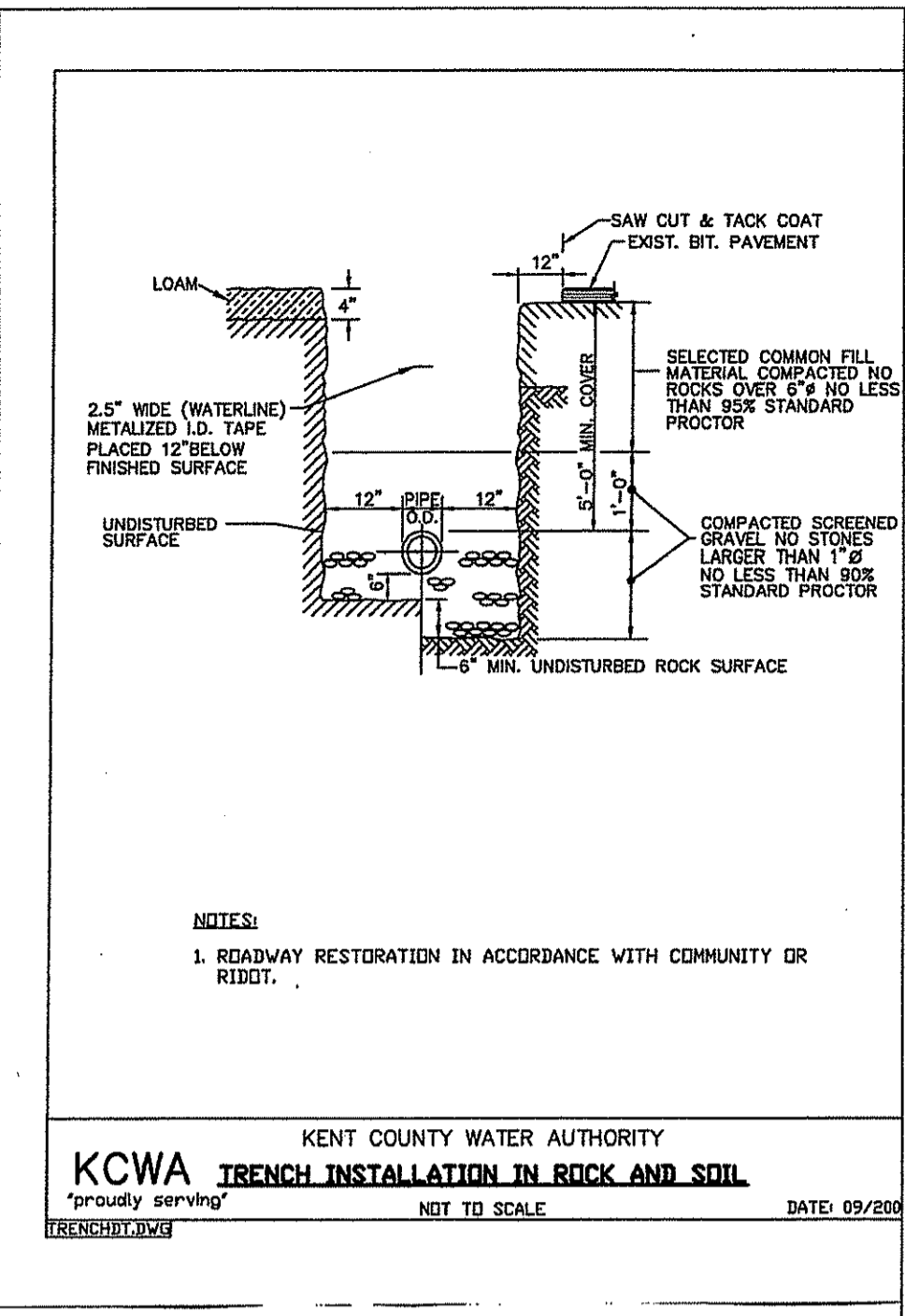
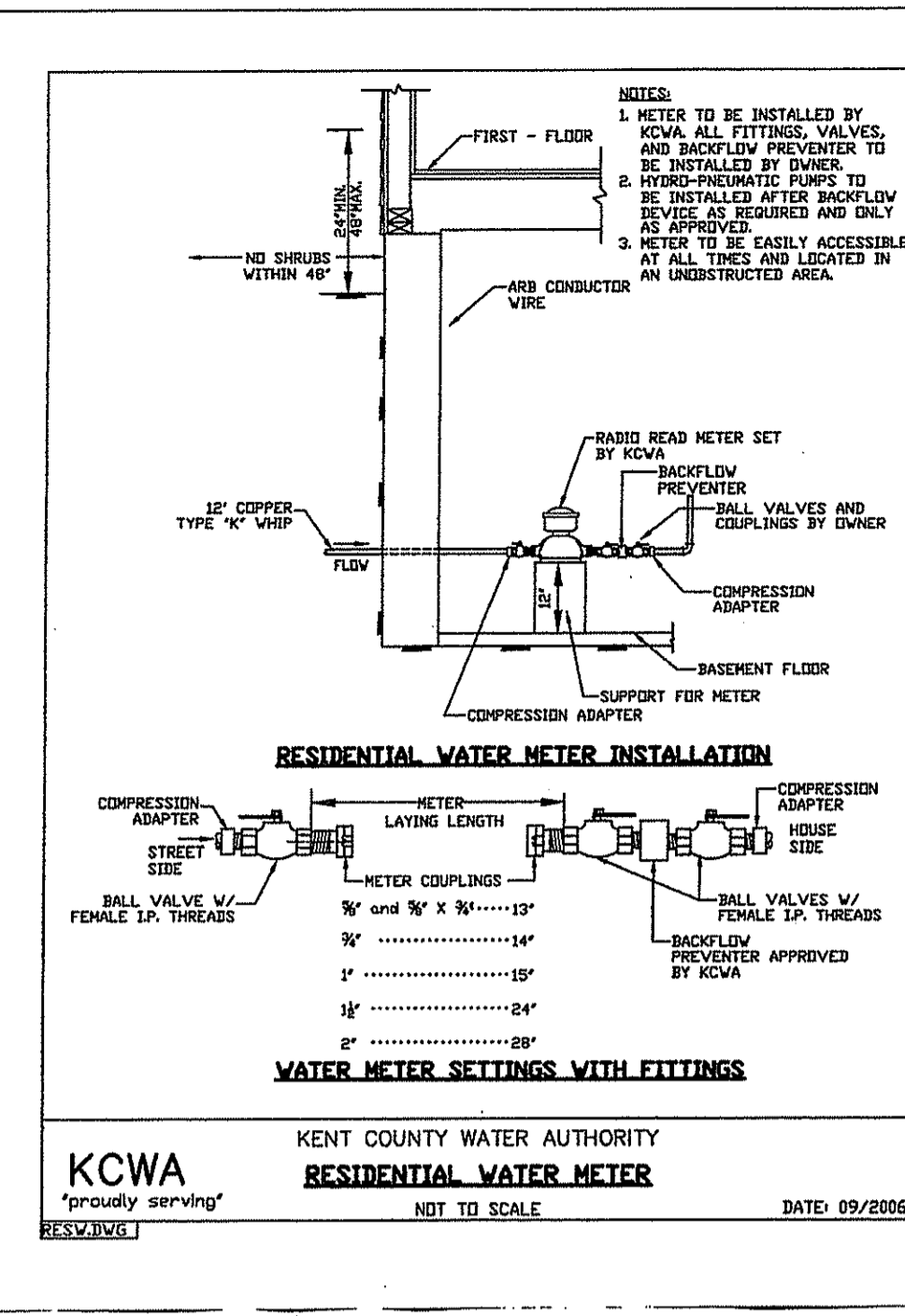
FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

S.F.M. ENGINEERING ASSOCIATES
470 TOUQUE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NE.COM

SFM

DRN. BY: LBC
CHK. BY: SFM
SCALE: AS NOTED
DATE: JUNE 4, 2014
DWG: SFM78803-A
SHEET 10 OF 14
PRELIMINARY SUBMISSION





WATER NOTES:

- WATER MAINS SHALL BE CL. 52 DUCTILE IRON, SIZE AS PER PLANS. WATER SERVICES SHALL BE 3/4" TYPE 'K' COPPER OR POLYETHYLENE. ALL WATER RELATED WORK SHALL BE IN ACCORDANCE WITH THE POLICIES AND PRACTICES OF THE KENT COUNTY WATER AUTHORITY.
- WATER LINES SHALL BE INSTALLED A MINIMUM OF 18" ABOVE SEWER LINES AND A HORIZONTAL SEPARATION OF 10" SHALL BE MAINTAINED BETWEEN WATER LINES AND ALL OTHER UTILITIES.
- THE KENT COUNTY WATER AUTHORITY RULES AND REGULATIONS SHALL BE KEPT ON SITE DURING THE CONSTRUCTION OPERATION. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS AND DETAILS.
- THE CONTRACTOR IS RESPONSIBLE TO PROPERLY SIZE THE MAIN AND BLOW OFF CHES AND TO FULFILL THE AWWA REQUIREMENTS FOR FLUSHING AND DISINFECTION.
- WATER AS-BUILT DRAWINGS SHALL BE PROVIDED AND SHALL CONFORM TO THE REQUIREMENTS OF APPENDIX H OF THE KCWA REGULATIONS.

REVISION
DATE

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
4298

OWNER AND APPLICANT
BARBARA A. PINE
136 DANIEL AVENUE
GUILFORD, CT 06437
203-530-8350

FRENCHTOWN PLACE
RESIDENTIAL CLUSTER SUBDIVISION
MAP 29 A.P. 18 LOT 60
POLE 38 FRENCHTOWN ROAD
EAST GREENWICH, RI

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410 TIGOLE AVENUE
COVENTRY, RI 02816
PHONE: 401-826-3736
FAX: 401-826-1711
SCOTT@SFM.NECCOMAIL.COM

SFM

DRN. BY: LBC
CHK. BY: SFM
SCALE: AS NOTED
DATE: JUNE 4, 2014
DWG: SFM788CD-4
SHEET 14 OF 14
PRELIMINARY SUBMISSION

C11

PLANT SCHEDULE (SEETS 1&2)

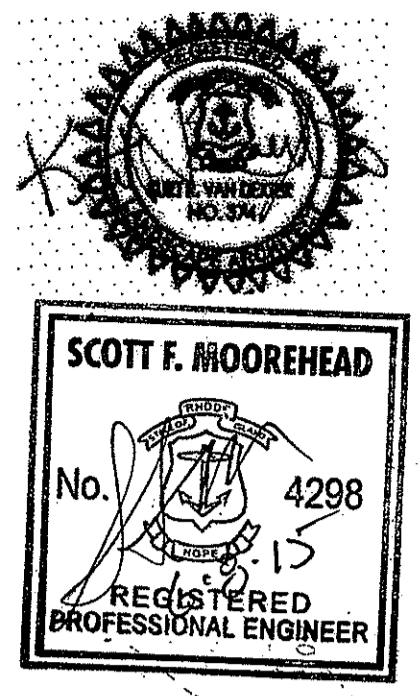
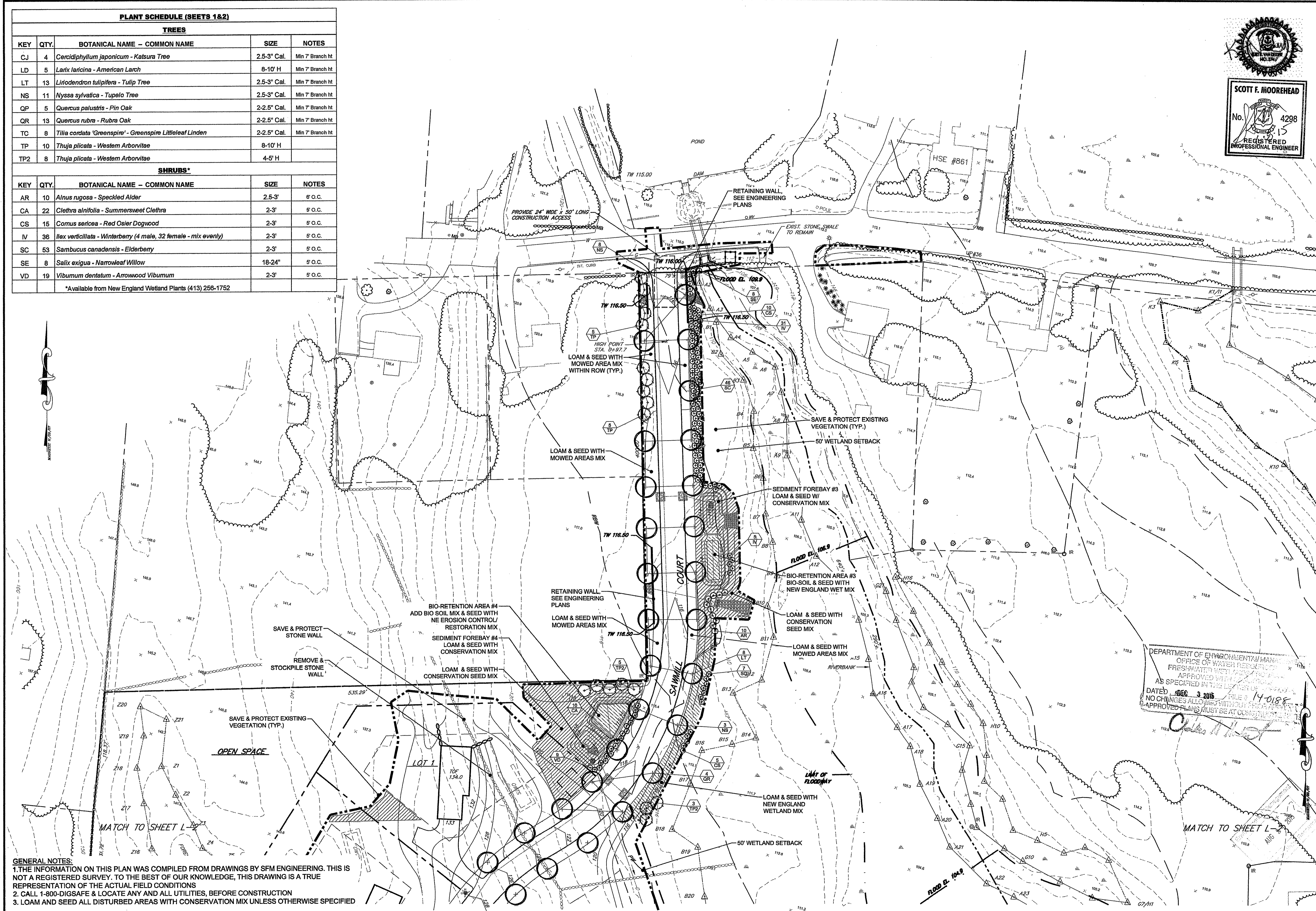
TREES

KEY	QTY.	BOTANICAL NAME - COMMON NAME	SIZE	NOTES
CJ	4	<i>Cercidiphyllum japonicum</i> - Katsura Tree	2.5-3" Cal.	Min 7' Branch ht
LD	5	<i>Larix laricina</i> - American Larch	8-10' H	Min 7' Branch ht
LT	13	<i>Liriodendron tulipifera</i> - Tulip Tree	2.5-3" Cal.	Min 7' Branch ht
NS	11	<i>Nyssa sylvatica</i> - Tupelo Tree	2.5-3" Cal.	Min 7' Branch ht
QP	5	<i>Quercus palustris</i> - Pin Oak	2-2.5" Cal.	Min 7' Branch ht
QR	13	<i>Quercus rubra</i> - Rubra Oak	2-2.5" Cal.	Min 7' Branch ht
TC	8	<i>Tilia cordata</i> 'Greenspire' - Greenspire Littleleaf Linden	2-2.5" Cal.	Min 7' Branch ht
TP	10	<i>Thuja plicata</i> - Western Arborvitae	8-10' H	
TP2	8	<i>Thuja plicata</i> - Western Arborvitae	4-5' H	

SHRUBS*

KEY	QTY.	BOTANICAL NAME - COMMON NAME	SIZE	NOTES
AR	10	<i>Alnus rugosa</i> - Speckled Alder	2.5-3'	6' O.C.
CA	22	<i>Clethra alnifolia</i> - Summersweet Clethra	2-3'	5' O.C.
CS	15	<i>Cornus sericea</i> - Red Osier Dogwood	2-3'	5' O.C.
IV	36	<i>Ilex verticillata</i> - Winterberry (4 male, 32 female - mix evenly)	2-3'	5' O.C.
SC	53	<i>Sambucus canadensis</i> - Elderberry	2-3'	5' O.C.
SE	8	<i>Salix exigua</i> - Narrowleaf Willow	18-24"	5' O.C.
VD	19	<i>Viburnum dentatum</i> - Arrowwood Viburnum	2-3'	5' O.C.

*Available from New England Wetland Plants (413) 256-1752



REVISION	REVISION COMMENTS

HALL BECKMAN LTD
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 Estate Planning - Landscape Architecture

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 136 DANIEL AVENUE
 GUILFORD, CT 06437
 203-530-8350

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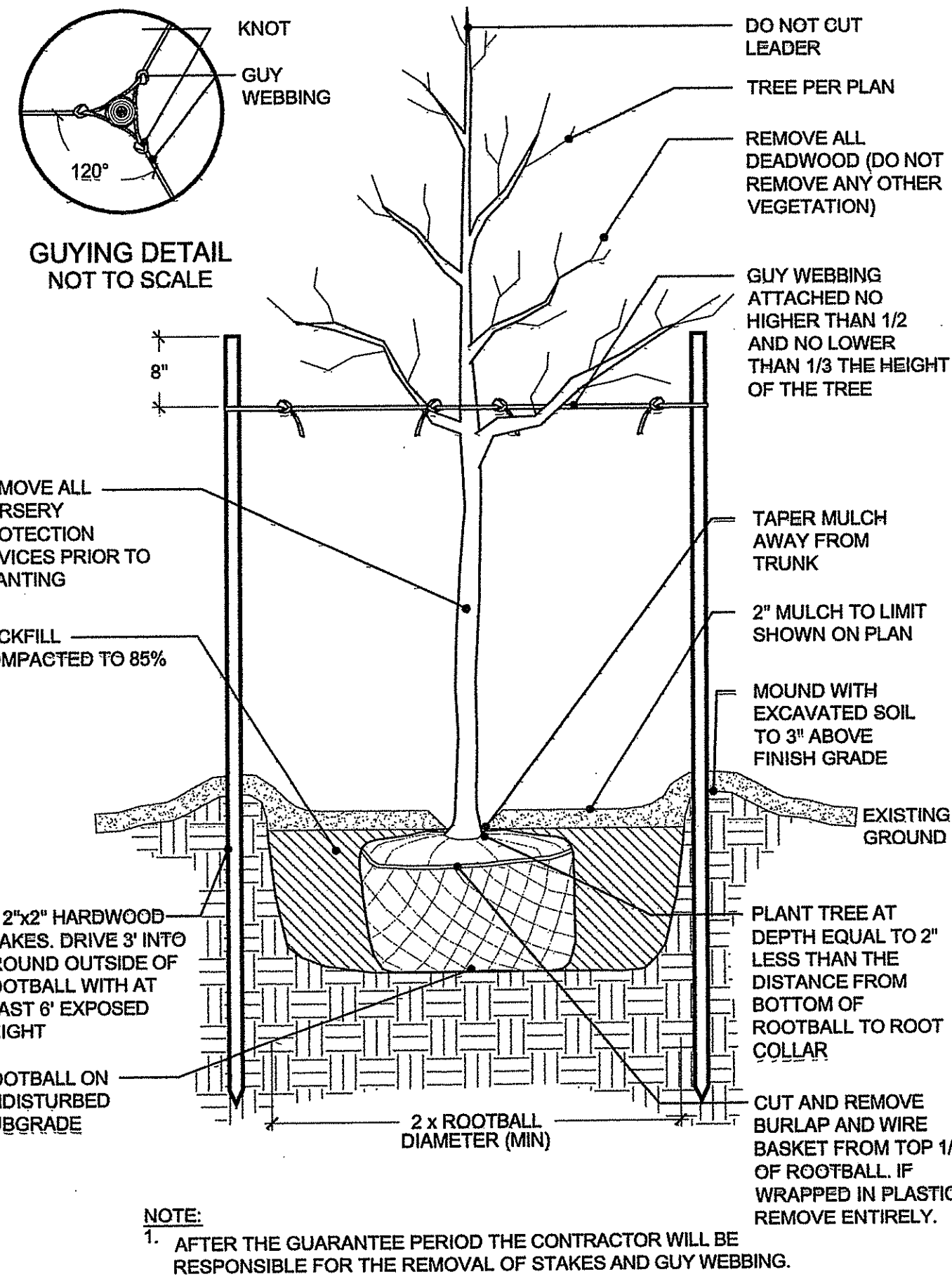
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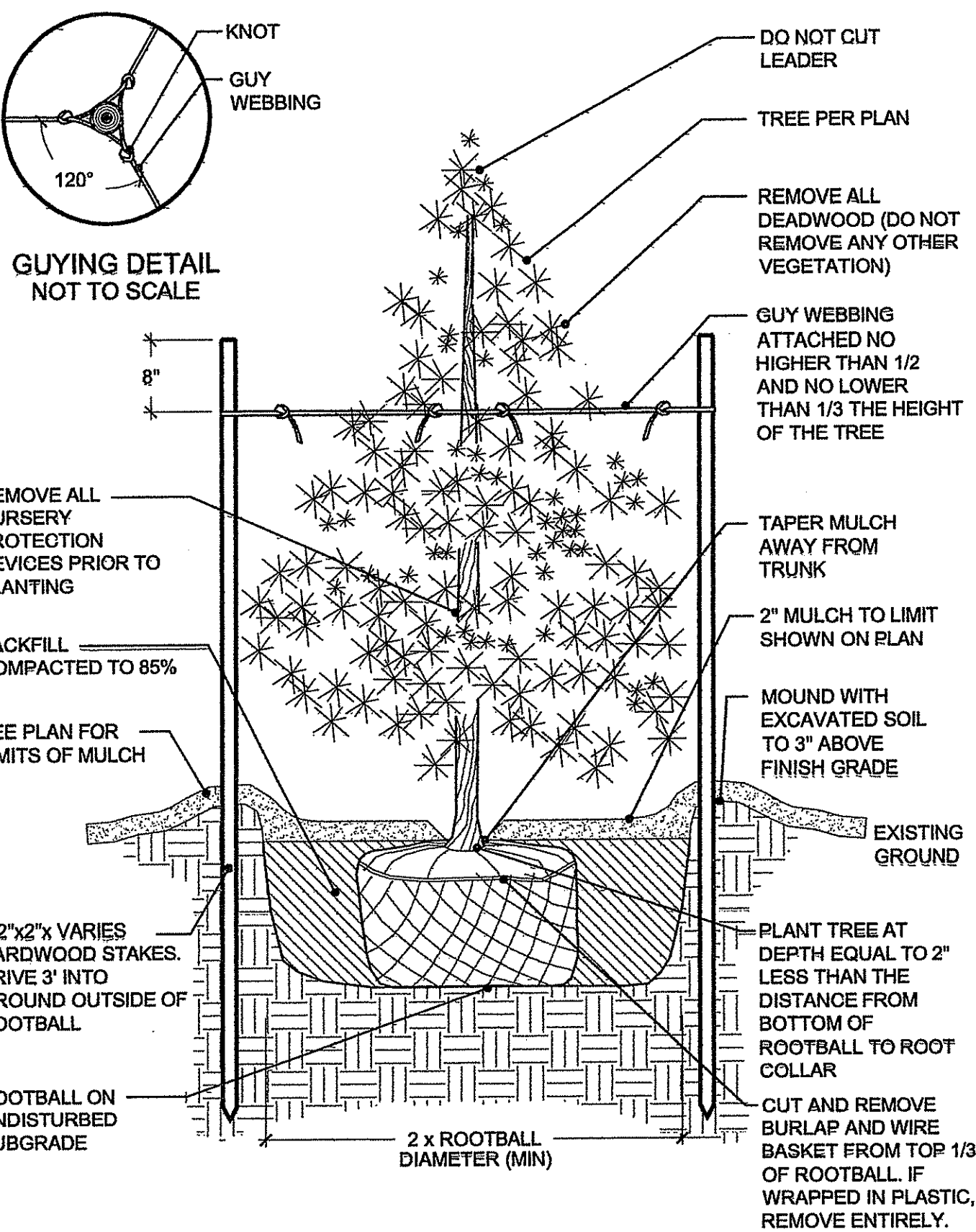
DRN. BY: LBC
 CHK. BY: SFM
 SCALE: 1" = 40'
 DATE: JUNE 4, 2014
 DWG: SFM788-GP1-A
 SHEET 12 OF 14
 PRELIMINARY SUBMISSION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WATER APPROVAL
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 3 2015 FILE # 14-0188
 NO CHANGES ALLOWED WITHOUT WRITTEN APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION

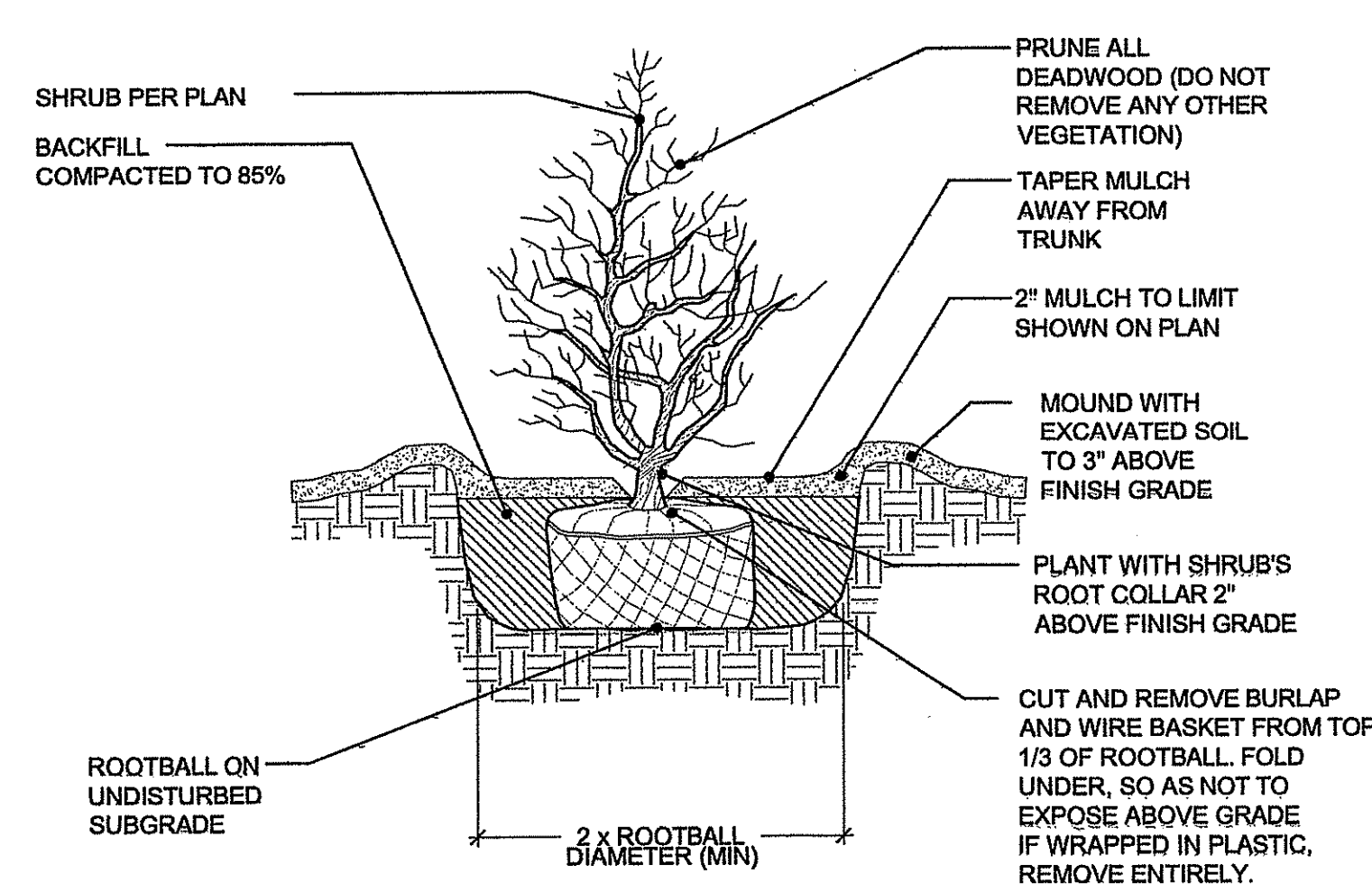
GENERAL NOTES:
 1. THE INFORMATION ON THIS PLAN WAS COMPILED FROM DRAWINGS BY SFM ENGINEERING. THIS IS NOT A REGISTERED SURVEY. TO THE BEST OF OUR KNOWLEDGE, THIS DRAWING IS A TRUE REPRESENTATION OF THE ACTUAL FIELD CONDITIONS
 2. CALL 1-800-DIGSAFE & LOCATE ANY AND ALL UTILITIES, BEFORE CONSTRUCTION
 3. LOAM AND SEED ALL DISTURBED AREAS WITH CONSERVATION MIX UNLESS OTHERWISE SPECIFIED



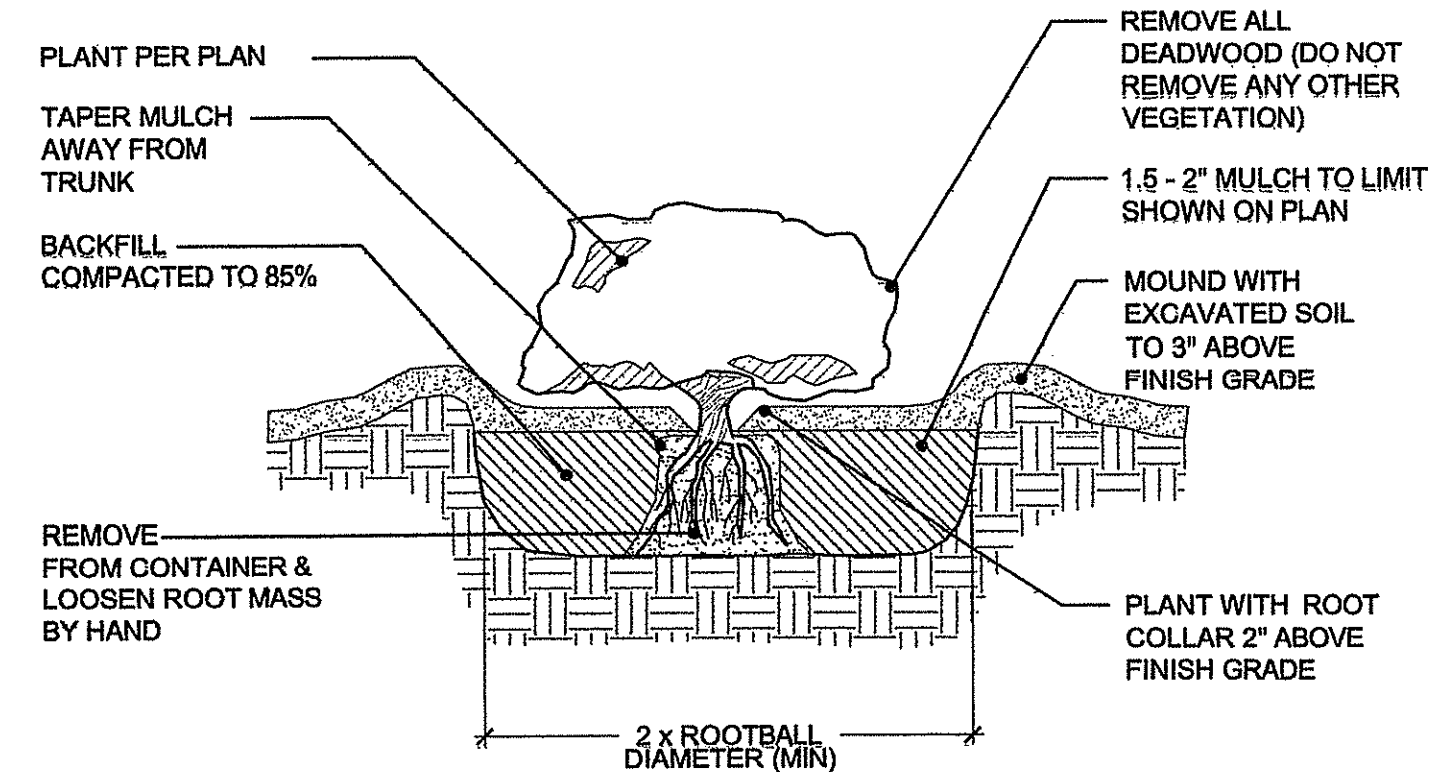
DECIDUOUS TREE PLANTING DETAIL
SCALE: NTS



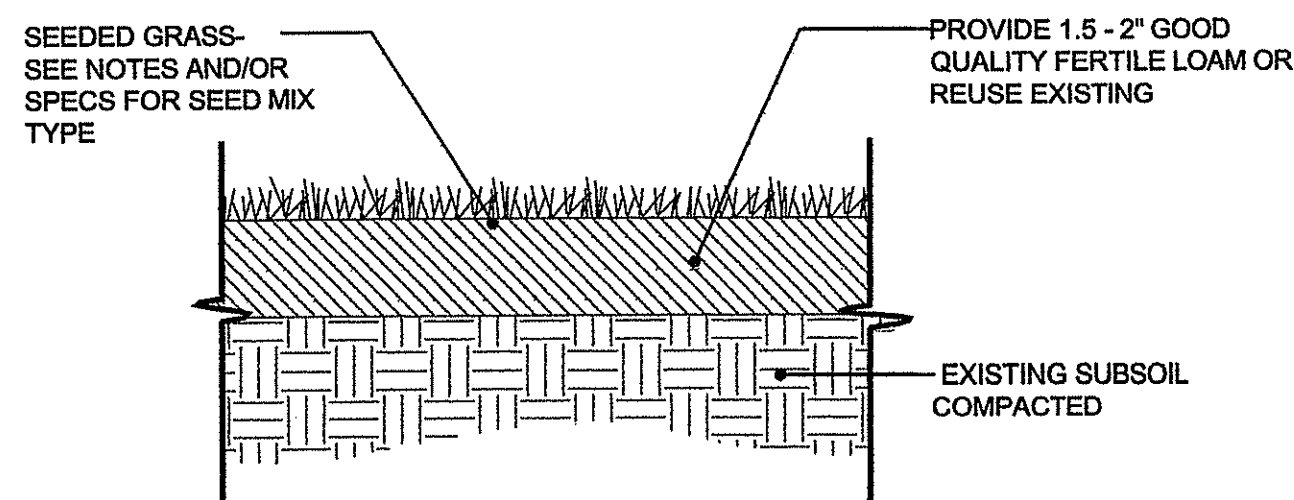
EVERGREEN TREE PLANTING DETAIL
SCALE: NTS



B&B SHRUB PLANTING DETAIL
SCALE: NTS



CONTAINER GROWN SHRUB DETAIL
SCALE: NTS



LOAM & SEED DETAIL
SCALE: NTS

SEEDING NOTES

- LOAM SHALL BE SPREAD TO A MAXIMUM DEPTH OF 1.5 - 2" OVER DISTURBED AREAS ONLY IF DESIGNATED ON PLANS.
- SHAPE AND SMOOTH THE SURFACE TO THE LINES ONLY IF SHOWN ON PLANS.
- FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN A SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 1.5 TO 2 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQ. FT. AT SEEDING FOR THE FIRST (1) YEAR ONLY.
- LIME: SPREAD EVENLY AND WORK INTO THE SOIL DURING PREPARATION OF SEED BED AT THE RATE OF ONE TON PER ACRE. INCORPORATE INTO THE SOIL BY DICING OR OTHER APPROVED METHOD. DISTRIBUTE LIME UNIFORMLY AND WORK INTO TOP 1.5 - 2 INCHES OF TOP SOIL (MAXIMUM) AND UNIFORMLY BLEND BY DICING OR ROTOTILLING FOR THE IMMEDIATE PLANTING ONLY.
- ANY LOAM EXPOSED FOR ONE WEEK SHALL BE PLANTED WITH ANNUAL RYE GRASS SEED & SEED MIX #1. ALL LOAM STOCKPILES TO BE SEEDED IMMEDIATELY.
- APPLICATION OF SEED:
 - RATE OF APPLICATION OF SEED SHALL BE 8 POUNDS PER 1,000 SQ. FT. OR AS INDICATED ON PLANS.
 - SEEDING SHALL BE DONE IN ACCORDANCE WITH SECTION L.02.03 OF THE RI STANDARD SPECIFICATIONS AND ONLY DURING THE FOLLOWING DATES:
SPRING SEEDING: AUGUST 1 TO MAY 31
FALL SEEDING: AUGUST 15 TO OCTOBER 15
 - THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RESEEDING IF AND WHEN NECESSARY FOR AN 8-WEEK PERIOD OR UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA. THE CONTRACTOR SHALL LEAVE THESE AREAS IN GOOD CONDITION, ALSO MAINTAIN THESE AREAS IN GOOD CONDITION UNTIL PROVISIONAL ACCEPTANCE.
 - DURING THIS PERIOD, WATER TURF AS NECESSARY TO MAINTAIN AN ADEQUATE SUPPLY OF MOISTURE, THE EQUIVALENT OF ONE INCH OF ABSORBED WATER PER WEEK THAT IS DELIVERED AT WEEKLY INTERVALS IN THE FORM OF NATURAL RAIN OR IS AUGMENTED AS REQUIRED BY PERIODIC WATERINGS IS REQUIRED.
 - OVERSEED WHEN NECESSARY TO PROMOTE GRASS GROWTH
 - REPLANT AREAS VOID OF TURF ONE SQUARE FOOT OR LARGER.
 - SEED ALL AREAS DESIGNATED ON PLAN AS WELL AS ALL DISTURBED EXISTING AREAS WITH THE FOLLOWING SEED MIX:

SEED MIX CHART

MOWED AREAS SEED MIX

TYPE	% BY WEIGHT
NASSAU KENT BLUE	60
JAMESTOWN CHEWINGS FESCUE	20
PALMER PERENNIAL RYE GRASS	20
APPLICATION RATE = 200 LBS. / Acre	

CONSERVATION SEED / WILDLIFE MIX

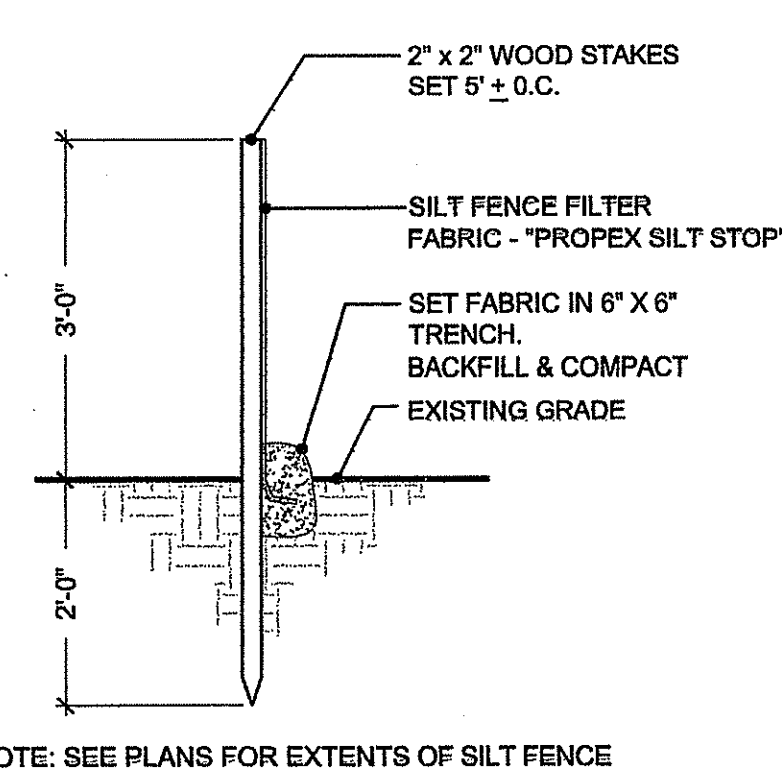
TYPE	% BY WEIGHT
HARD FESCUE	35
SHEEP FESCUE	35
BLUE FESCUE	25
WHITE CLOVER	15
APPLICATION RATE = 1-2 LBS. PER 1,000 SQ. FT. OR 85 LBS. / ACRE (DO NOT MOW)	

NEW ENGLAND WETMIX (BIO-RETENTION AREAS)

AVAILABLE FROM NEW ENGLAND WETLAND PLANTS (413) 548-8000
APPLICATION RATE = 1 LBS. PER 2,500 SQ. FT.

NEW ENGLAND EROSION CONTROL & RESTORATION MIX FOR MOIST SITES (DETENTION BASIN FLOORS)

AVAILABLE FROM NEW ENGLAND WETLAND PLANTS (413) 548-8000
APPLICATION RATE = 1 LBS. PER 1,250 SQ. FT.



SILT FENCE and TREE PROTECTION DETAIL
SCALE: NTS

BIO-RETENTION SOIL MIX & SEEDING NOTES

- YEAR 1: SITE PREPARATION AND SEEDING YEAR**
PREPARE THE BIO RETENTION BED WITH THE FOLLOWING SOIL MIX:
- LOAM SAND TO A SANDY LOAM
 - 85-88% SAND
 - 8-12% SILT
 - 0-2% CLAY
 - ADDED ORGANIC MATTER (20% OF MINERAL SOIL MIX BY VOLUME)
 - WELL AGED, AERATED HARDWOOD MULCH (AGED 6 MONTHS IF POSSIBLE).
- PLANT IN FALL AS A FROST PLANTING (MID-OCT OR AFTER) OR SPRING (APRIL 15T -MAY 31ST) AS A SECOND CHOICE. DO NOT PLANT IN THE SUMMER.

- YEAR 2: FIRST GROWING SEASON**
KEEP THE AREA CUT TO 4-6" THIS YEAR. DON'T PULL ANY WEEDS! THIS WILL DISTURB THE ROOT SYSTEMS OF THE NEARBY NATIVES TRYING TO ESTABLISH.

- YEAR 3: SECOND GROWING SEASON**
MOW ONCE, IF NECESSARY

CONSTRUCTION NOTES:

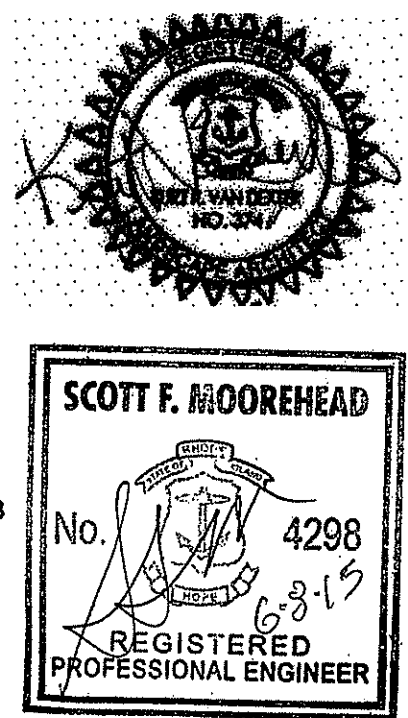
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE CONSTRUCTION PLANS TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ALSO REPORT ANY CONDITIONS UNCOVERED IN THE WORK THAT ARE NOT REFLECTED WITHIN THE PLANS.
- THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE OWNER, ESTABLISH CONSTRUCTION LIMITS ON THE SITE BY ACCEPTABLE VISIBLE MARKERS PLACED AT EYE LEVEL. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS. THE CONTRACTOR SHALL REMOVE ALL MARKERS WHEN DIRECTED BY OWNER.
- THE INTENTION OF THE OWNER IS TO MAINTAIN THE BOUNDARIES OF THE SITE IN ITS EXISTING CONDITION AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFINING THE WORK TO WITHIN THE CONSTRUCTION LIMITS.
- ALL EXISTING VEGETATION (TREES, SHRUBS, GRASSES, ETC.) TO REMAIN SHALL BE PROTECTED BY INJURY. INDIVIDUAL TREES AND SHRUBS TO BE SAVED WITHIN THE DESIGNATED WORK AREA SHALL BE ADEQUATELY PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL PROTECTIVE BARRIERS AS DIRECTED BY THE OWNER.
- ALL EXISTING GRASSED AREAS NOT ADEQUATELY PROTECTED AND THEREFORE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL WETLANDS, COASTAL, CITY/TOWN, AND STATE REGULATIONS.
- ALL PLANTINGS SHALL BE MAINTAINED IN A MANNER SO AS TO PROMOTE OPTIMUM GROWTH OF PLANT MATERIALS.
- ALL TREES, SHRUBS, GROUND COVERS, AND OTHER PLANT MATERIALS MUST BE REPLACED IF THEY DIE OR BECOME UNHEALTHY BECAUSE OF ACCIDENTS, DRAINAGE PROBLEMS, DISEASE, OR OTHER CAUSES. ALL SUCH REPLACEMENTS SHALL CONFORM TO ALL STANDARDS THAT GOVERNED THE ORIGINAL INSTALLATION. WHERE NO SUCH STANDARDS EXIST, NEW PLANTINGS SHALL MATCH THE REPLACED MATERIALS IN TYPE, SPECIES, AND QUANTITY.
- SOIL OR LOAM THAT IS STORED OR STOCKPILED DURING CONSTRUCTION SHOULD ALSO BE MULCHED OR COVERED WITH A MAT OF LOOSE HAY AND CAN BE SEEDED WITH A TEMPORARY SEED MIX. STOCKPILES SHOULD ALSO BE ENCLOSED WITH SILT OR HAYBALES.
- ENTRANCE TO CONSTRUCTION SITE SHOULD BE COVERED WITH GRAVEL TO TRAP SEDIMENT FROM THE TIRES OF VEHICLES EXISTING ON THE SITE.

PLANTING NOTES:

- FURNISH AND INSTALL ALL PLANTS SHOWN ON THE DRAWINGS SPECIFIED HEREIN, AND IN THE QUANTITIES LISTED ON THE PLANT LIST. NO SUBSTITUTIONS WILL BE PERMITTED, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT AND PROJECT ADMINISTRATOR.
- LOAM TO BE GOOD QUALITY, FERTILE, FREE OF WEEDS, STICKS STONES OVER 3/4", AND ROOTS. SPREAD TO A MINIMUM OF 1.5 - 2" OVER ALL SEEDED AREAS AND POCKET PLANTED IN ALL AREAS DESIGNATED.
- NURSERY STOCK SHALL MEET THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AS TO GRADING AND QUALITY.
- ONLY NURSERY-GROWN PLANTS, GROWN IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICES AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST (1) YEAR, WILL BE ACCEPTED.
- SET PLANTS PLUMB AND AT A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS THOROUGHLY AND PROPERLY BY FIRING OR TAMPING FORM SAUCERS CAPABLE OF HOLDING WATER ABOUT INDIVIDUAL PLANTS, BY PLACING RIDGES OF PLANTING SOIL AROUND EACH.
- STREET TREES SHALL BE SECURELY TRIPLE-STAKED WITH STAKES OF A MINIMUM SIZE OF TWO INCHES BY TWO INCHES BY SIX FEET.
- TREES IN OPEN AREAS TO HAVE A NATURALIZED BRANCHING HABIT
- ALL STREET TREES ADJACENT TO SIDEWALKS AND ROADS MUST HAVE A MINIMUM CLEARANCE HEIGHT OF 7' (7 FEET) TO THE FIRST BRANCH
- WATERING: WATER ALL PLANTS WITHIN 48 HOURS AFTER PLANTING IF CONDITIONS WARRANT, AND AS MANY TIMES THEREAFTER TO SUSTAIN HEALTHY CONDITIONS. SATURATE THE SOIL AROUND EACH PLANT THOROUGHLY AT EACH WATERING, WHICH EVER IS REQUIRED BY SITE CONDITIONS
- PRUNING: PRUNE ONLY APPROVED RI CRMC VIEW CORRIDOR PLANTS NO MORE THAN 5', AND AS DIRECTED BY OWNER AND CRMC.
- FERTILIZING: FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT A RATE OF THREE POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROAD CAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE AGRIFORM PELLET PER INCH OF TRUNK DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD. FERTILIZE ONLY THE FIRST (1) YEAR.
- MULCHING: COVER ALL PLANTED AREAS WITH 1.5 - 2" DARK BROWN PINE BARK MULCH WITHIN A SEVENTY - TWO HOUR PERIOD AFTER PLANTING. NO RED MULCH ACCEPTED. MULCH THE FIRST YEAR (1) ONLY.
- GUARANTEE: ALL PLANTS FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER PRELIMINARY INSPECTION AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ALL DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED AT ONCE BY THE CONTRACTOR, FREE OF CHARGE.
- ALL TREES ARE TO HAVE ONE MAIN LEADER.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING THE WATERING FOR THE FIRST YEAR.

DIG SAFE

- RHODE ISLAND LAW REQUIRES THAT DIG SAFE AND ALL UTILITY COMPANIES BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS - 2 BUSINESS DAYS - PRIOR TO ANTICIPATED EXCAVATION. THIS DOES NOT INCLUDE WEEKENDS OR LEGAL HOLIDAYS. DIG SAFE MAY BE CONTACTED BY CALLING 1-888-344-7233 MONDAY THRU FRIDAY FROM 8 A.M. TO 6 P.M.
- STATE LAW REQUIRES ALL EXCAVATORS TO PRE-MARK THE AREA OF EXCAVATION BEFORE NOTIFYING DIG SAFE. PRE-MARKING IS DEFINED AS MARKING OUT THE SCOPE OF THE PROPOSED EXCAVATION AREA, USING STAKES, PAINT OR FLAGS.
- LOCATE AND RECORD ALL BURIED UTILITIES AND CONFORM TO REQUIREMENTS GOVERNING EXCAVATION AND CHANGES IN THIS AREA.
- THE DEPTH OF UNDERGROUND FACILITIES IS VARIABLE, THEREFORE STATE LAW REQUIRES EXCAVATORS TO USE NON-MECHANICAL MEANS WHEN DIGGING WITHIN 18" OF A MARKED UNDERGROUND FACILITY. THE CURRENT DEPTH OF A FACILITY MIGHT NOT BE THE SAME AS WHEN IT WAS ORIGINALLY INSTALLED, DUE TO SOIL EROSION, GRADING AND MANY OTHER FACTORS. TO ENSURE THE SAFETY OF EXCAVATORS AND TO AVOID DISRUPTION, IT MAKES SENSE TO HAND DIG WHEN NEAR AND UNDERGROUND FACILITY.
- IF DAMAGE OCCURS TO A UTILITY LINE, AND THERE IS A POSSIBILITY THAT THE DAMAGE MAY POSE A THREAT TO THE HEALTH AND SAFETY OF THE PUBLIC, CALL 911 IN ORDER TO DISPATCH LOCAL OFFICIALS WHO WILL DETERMINE WHETHER THE COMMUNITY IS IN IMMEDIATE DANGER. NEXT, ACCORDING TO STATE LAW, IT IS THE RESPONSIBILITY OF THE EXCAVATOR TO NOTIFY THE AFFECTED UTILITY COMPANY DIRECTLY AFTER DAMAGE OCCURS. STATE LAW PROHIBITS THE CONTRACTOR FROM ATTEMPTING TO REPAIR THE LINE, OR BACKFILLING BEFORE THE LINE HAS BEEN REPAIRED BY THE UTILITY COMPANY. FAMILIARIZE YOURSELF WITH YOUR LOCAL UTILITY COMPANIES' SAFETY PROCEDURES AND PROTOCOL IN THE EVENT OF UTILITY LINE DISRUPTION.
- A DIG SAFE PERMIT SHOULD BE PROCESSED ONLY IF YOU INTEND TO EXCAVATE WITHIN 30 DAYS.



REVISION	
DATE	

HAL BECKMAN LTD.
23 Brown Street, Suite 205, Waterbury, CT 06706
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Estate Planning - Landscape Architecture

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124 DANIEL AVENUE
GUILDFORD, CT 06437
230-453-3994

FRENCHTOWN PLACE
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DATE: SEPTEMBER 10, 2014
DWG: SFM788-LP2
SHEET 14 OF 14
PRELIMINARY SUBMISSION
L-3

DEPARTMENT OF
CIVIL ENGINEERING
FRESHWATER
APPROVED
AS SHOWN
DEC 3 2015
14-0188
DATED
NO CHANGES ALLOWED WITHOUT
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Carter