

# PROPOSED SITE DEVELOPMENT LOGAL, LLC

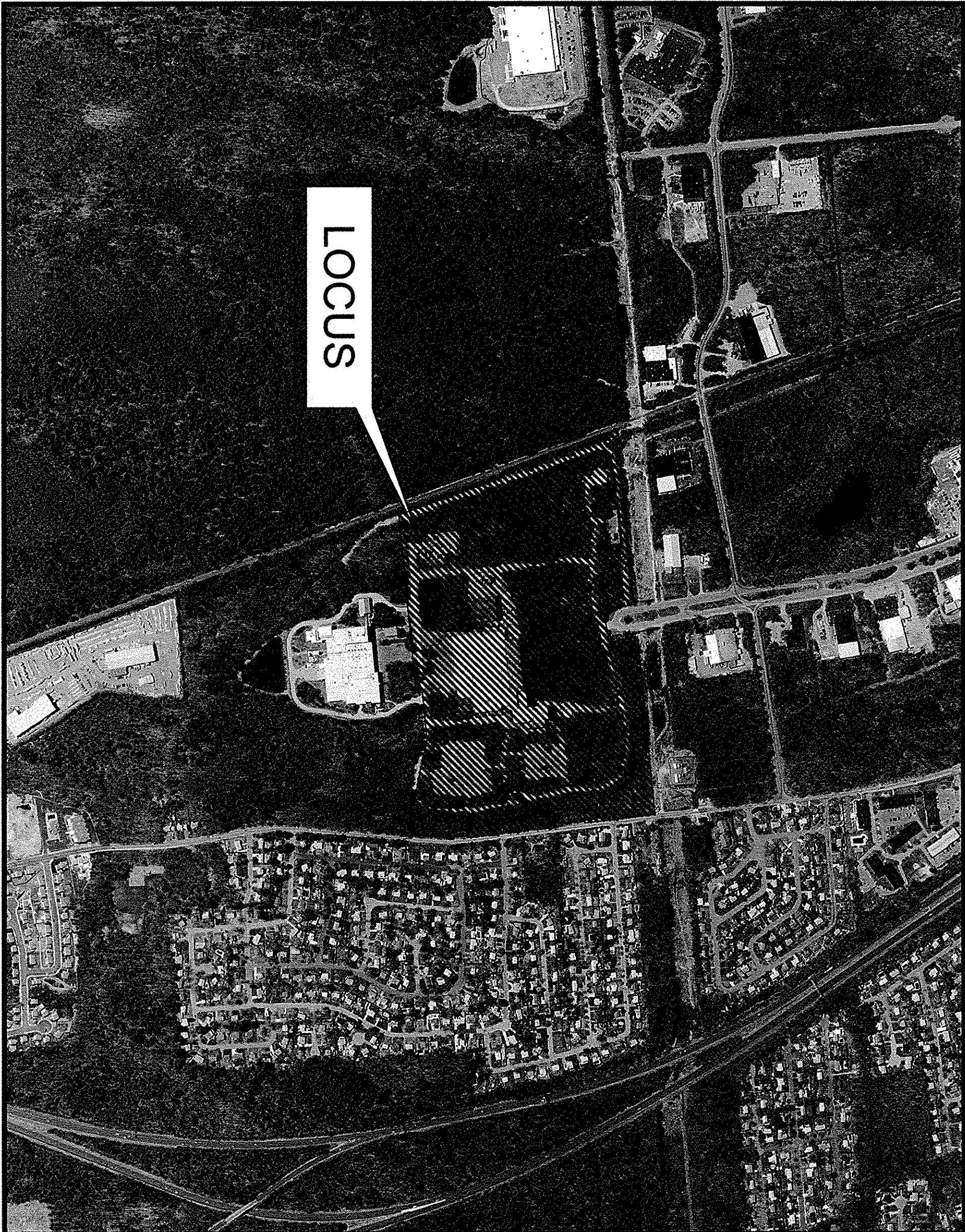
100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

## SITE DRAWINGS

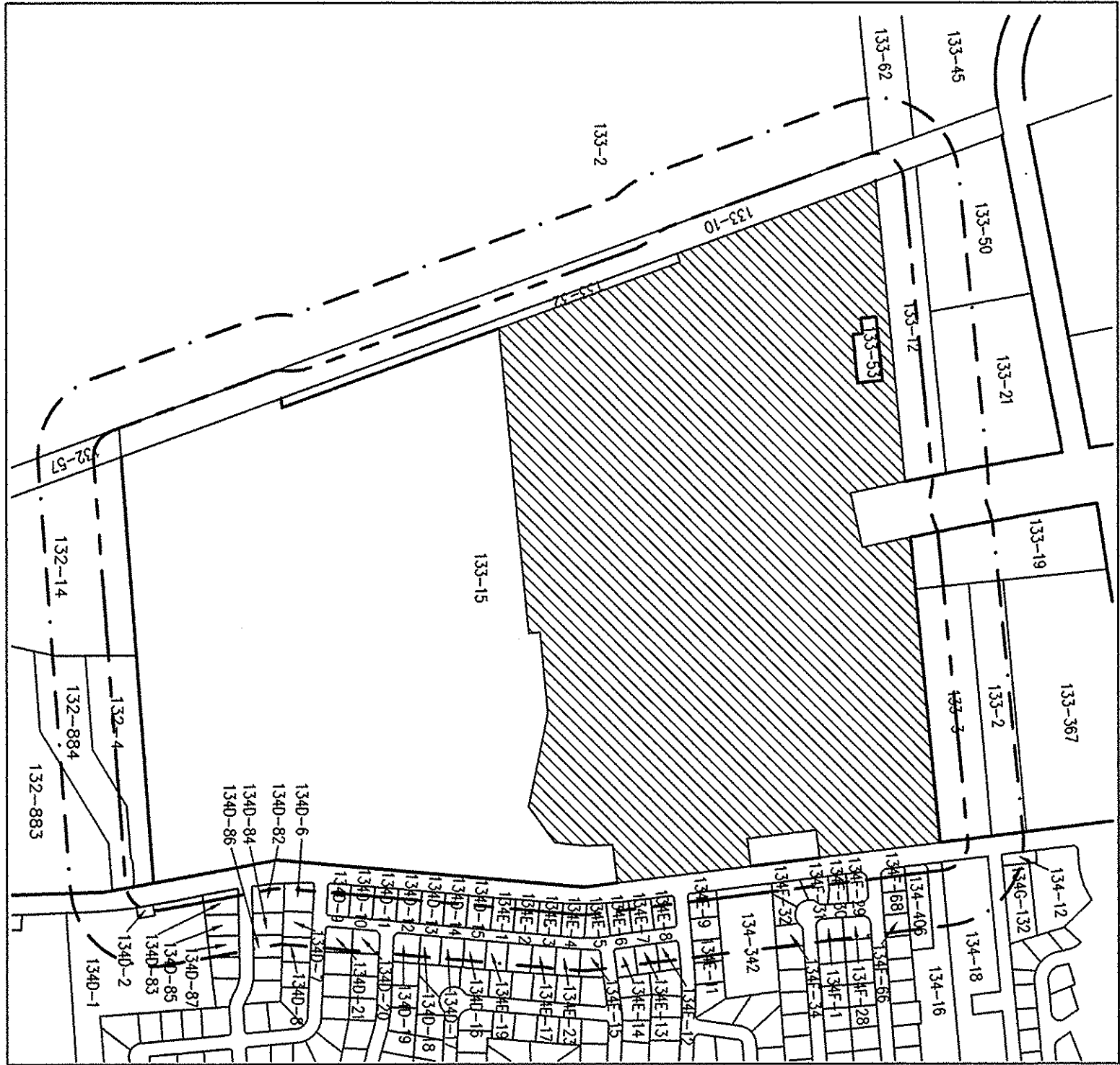
ISSUED FOR: PERMITTING  
DATE ISSUED: MAY 7, 2014  
LATEST ISSUE:

### INDEX TO DRAWINGS

SHEET	DRAWING TITLE
N-1	TITLE SHEET
EC-1	NOTES & LEGEND
OSL-1	EXISTING CONDITIONS
SL-1	OVERALL SITE LAYOUT
SGD-1	SITE LAYOUT
D-1	SITE GRADING & DRAINAGE
D-2	DETAIL SHEET 1
	DETAIL SHEET 2



SCALE: 1"=600'



SCALE: 1"=500'

ENGINEER:

FIELD ENGINEERING CO., INC.  
11D INDUSTRIAL DRIVE  
P.O. BOX 1178  
MATTAPOISETT, MA 02739

APPLICANT/OWNER:

LOGAL, LLC.  
89 BLACKMER STREET  
NEW BEDFORD, MA 02744

PROJECT LOCATION:

ASSESSORS MAP 133 LOT 15  
NEW BEDFORD, MASSACHUSETTS

LOT NO.	OWNER OF RECORD
132-4	WALTER C. & LENA PIRES
132-14	WEBBY ROAD LLC
132-57	PENN CENTRAL CO. CONSOLIDATED RAIL CORP.
132-883	JOAO & MARIA A. BARBOSA
132-884	JAMES W III & NICOLE R. MONTAGUE
133-2	COMMONWEALTH OF MASSACHUSETTS
133-10	PENN CENTRAL CO. CONSOLIDATED RAIL CORP.
133-12	GREATER NEW BEDFORD INDUSTRIAL FOUNDATION
133-15	MULTILAYER COATING TECHNOLOGIES LLC
133-16	JOSEPH L. ABREU
133-19	N E PLASTICS CORP.
133-21	ARTHUR L. WILHEMICH TRUSTEE
133-45	THE WILHEMICH 2001 NOMINEE TRUST
133-46	CP BOLING INC.
133-53	CITY OF NEW BEDFORD PUMP STATION
133-62	GMBF /PJ3 ARROD LLC, C/O CORPORATE REAL ESTATE
134-2	COMMONWEALTH ELECTRIC CO.
	C/O PROPERTY TAX DEPARTMENT
134-3	COMMONWEALTH ELECTRIC CO.
	C/O PROPERTY TAX DEPARTMENT
134-12	PATRICK THOMAS JR. & RACHAEL L. O'BRIEN
134-318	COMMONWEALTH ELECTRIC CO.
	C/O PROPERTY TAX DEPARTMENT
134-406	VICTORIA J. & DENNIS S. GRAPPO
134-342	ROBERT & JESSIE D. HATHAWAY
	C/O ROBERT J. HATHAWAY
1340-1	CITY OF NEW BEDFORD
1340-2	CITY OF NEW BEDFORD, INTERCEPTING SEWER
1340-6	BARRY A. BRYANT TRUSTEE, BRYANT FAMILY
	IRREVOCABLE SPECIAL NEEDS TRUST
1340-9	ANTONETTE CHERITA
1340-10	DANIEL R. JR. & KRISTAL A. TREMBLAY
1340-11	DONNA FERNANDES TRUSTEE
1340-12	RAYMOND & FLOREBEL SYLVIA IRREVOCABLE TRUST
	USA & JEFFREY SWANN
1340-13	BERNARD G. & DONNA M. POYANT
1340-14	EDNA SCHARD
1340-15	DANIEL & RACHEL DA COSTA
1340-82	MARIA BARBOSA & STACEY BARBOSA
1340-83	GUHERNE E. & LAUDENIA MEDINA
134E-1	LORRAINE TRAVERS
134E-2	LAWRENCE A. & JACQUELINE A. ST ONGE
134E-3	JOAO M. & JUDITH GONSALVES
134E-4	YVETKA M. STUPALSKI
134E-5	JEFFERY A. & LORE A. SEBERT
134E-6	RAYMOND & DIANE C. DUBOIS
134E-7	KEVIN P. KIRKHELY, C/O SOVEREIGN BANK
134E-8	ROBERT DEVLIN
134E-9	GAIL A. BATES
134E-29	ELISE A. SOARES
134F-30	JOSE TAVERES
134F-31	LUISA P. BARBOSA
134F-32	DENNIS P. & WANDA M. BOUCHARD
134F-68	GEORGE G. JR. & CHERYL LORANTOS
134G-132	HERITAGE GREEN CORP., C/O ERIC MONTAGUE
	CLAREMONT MG BATTERY MARCH PARK II

<div>PROPOSED SITE DEVELOPMENT</div> <div>100 DUCHAINE BOULEVARD MAP 133 LOT 15 NEW BEDFORD, MA</div>	<div></div> <div>FIELD ENGINEERING CO., INC. CONSULTING ENGINEERS</div> <div>11D INDUSTRIAL DRIVE P.O. BOX 1178 MATTAPOISETT, MA 02739 TEL: (508) 758-2749 FAX: (508) 758-2949</div> <div>THE CROCKER BUILDING 4 COURT STREET SUITE 104 TAUNTON, MA 02780 TEL: (508) 824-8279 FAX: (508) 824-8276</div> <div>Project No. 1998</div>
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# STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE PLAN

1. ALL EROSION AND EROSION CONTROL MEASURES SHALL BE EXECUTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS AND THE UPDES STORMWATER POLLUTION PREVENTION PLAN (SPPPP).
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNWEATHERED OR INTERMEDIATE CONDITION FOR A MINIMUM OF 30 DAYS AFTER THE CONSTRUCTION OF THE FINAL GRADING AND TEMPORARILY STABILIZED WITH 50 PERCENT COVER. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITH 50 PERCENT COVER. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OR PRIOR TO ANY FORECASTED STORM EVENT. AREAS THE DERIVED AREAS SHALL BE STABILIZED WITHIN 15 DAYS OR PRIOR TO ANY FORECASTED STORM EVENT.

1. UPSTREAM OF THE CONSTRUCTION OF THE DRAINAGE AREAS, WHICH NETTING SHALL BE USED TO ANCHOR MESH IN ALL AREAS WITH SLOPES GREATER THAN 6:00 AFTER CONSTRUCTION. 157.

4. INSTALL SALT FENCE AT TOE OF SLOPE PER NOTE #15. SALT FENCE WILL REMAIN IN PLACE PER NOTE #15.

5. ALL EROSION CONTROL STRUCTURES WILL BE INSTALLED, REPAIRED AND/OR REPLACED EVERY 7 DAYS AND IMMEDIATELY AFTER ANY SIGNIFICANT RAINFALL EVENT. WHEN A RIVER SWELL OR FLOODING OCCURS, THE EROSION CONTROL STRUCTURES OR APPROXIMATELY ONE HALF THE HEIGHT OF THE BARBER SEAMANT CONTROL. DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPOSTREAM ARE STABILIZED BY TIME.

6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2 TO 1) UNLESS NOTED OTHERWISE.

7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED AS PRIOR TO THE FIRST ANNUAL FROST, USE SEEDING FERTILIZER.

8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PREVENT FROST SPRING RUNOFF PROBLEMS.

9. PROTECTION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:

a) THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SILTCLAY, MINERAL, STONES, ROOTS, LIMBS OF SMALL TREES, TWIGS OR CONSTRUCTION DEBRIS, AND SHALL BE PLACED TO A DEPTH OF FOUR (4) INCHES ON ALL LOAM AND CLAY AREAS OR AS SPECIFIED ON THE DRAWINGS.

b) APPLY FERTILIZER AT A RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF. APPLY GROUND LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MANGANESE OXIDE AT A RATE OF 3 TONS PER ACRE OR 138 LB PER 1,000 SF.

c) THE DESIGN MAX PER SEEDING SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE. THE SEED MIX SHALL BE COMPOSED OF 10% BENT GRASS, 10% RED TOP, 10% CRYSTAL BROMES, 10% PERennial BLUEGRASS, 10% PERennial RYEGRASS, 10% PERennial FESCUE, 10% PERennial TIMOTHY-POUR (2%) HOBBS, 20% PERennial WILLOW AND PARNASSY, WITH PERennial WILLOW FOR EACH VARIETY.

10. LOAM AND SEED AREAS - MASSOIST SPEC. M3.0.0.0

TYPE	% BY WEIGHT
PERennial FESCUE	50
PERennial BLUEGRASS	50
PERennial RYEGRASS	10
PERennial TIMOTHY-POUR	5
PERennial WILLOW	5
PERennial FESCUE	5

11. APPLICATION RATE

400 LBS/7000 SF.

12. HAY OR STRAW MULCH SHALL BE LOOSELY SPREAD TO A UNIFORM DEPTH AT THE RATE OF 4.5 TONS PER ACRE EXCEPT WHERE NOTED OTHERWISE.

13. THE MULCHING SHOULD A PHOTO-APPROXIMATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BRUSH SUCH AS CURBWOOD OR RUB PLANT WILL BE USED ON HAY MULCH FOR WIND CONTROL.

14. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED TO THE SATISFACTION OF THE PROJECT ENGINEER AND/OR THE CONSERVATION COMMISSION.

15. DOWNSTREAM PROPERTIES WILL BE PROTECTED WITH HAY BALES AND/OR SALT FENCING INSTALLED AS SHOWN ON THE DRAWINGS. ADDITIONAL HAY BALES OR SALT BARS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR THE CONSERVATION COMMISSION.

16. TEMPORARY HAY BALE EROSION CHECKS OR FILTER BARS, GRAVE INSERTS SHALL BE PROVIDED AT ALL DRAINAGE OR FLOODING AREAS.

16. STOCKPILES OF TOP SOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 1:1.

MUCH LOCATIONS	MUCH OR MAY	DO NOT EXCEED
HIGH WIND VELOCITY AREAS	SHEDDED OR CHOPPED CONSTRUCTS	200-275 POUNDS
MODERATE TO HIGH WIND-CAUTIOUS AREAS	ANCHORED STRIPS OR MAT	200 POUNDS
STEEP SLOPES GREATER THAN 3:1	USE WIRE OR EXPOSURE MAT	AS REQUIRED
(1) A HORN-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SETTING.		
SUCH AS CARBOL, OR RUBB PLUS SHALL BE USED ON ANY MUD FOR WIND CONTROL.		
MUCH ANCHORING		
MUCH ANCHORING MAY BE ACCOMPLISHED WITH RST AND TWINE (1/2 IN. TO 3/8 IN.), MUCH NETTING (PER MANUFACTURERS SPECIFICATIONS), WOOD CELLULOSE FIBER (750 LBS/ARE), OR CHEMICAL HOOK (PER MANUFACTURERS SPECIFICATIONS).		

1. CONSTRUCTION ACTIVITY EXECUTED DURING THE WINTER CONSTRUCTION PERIOD BETWEEN NOVEMBER 1 THROUGH APRIL 15 SHALL BE SUBJECT TO THE FOLLOWING ADDITIONAL REQUIREMENTS:
2. WINTER OCCUPATION AND TREATMENT SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW DEPOSIT.
4. CONTINUATION OF EARTHWORK OPERATIONS ON ADJACENT AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE OF THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO AREA IN EXCESS OF ONE ACRE IS WITHOUT PROSIN CONTROL PROTECTION.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AND REVEGETATED ACCORDING TO AN APPROVED ALTERNATIVE TREATMENT.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15T, LOAM OR SED. MUD WILL NOT BE PERMITTED DURING PERIODS OF ABOVE FREEZING TEMPERATURES. MULCHES SHALL BE APPLIED TO ALL EXPOSED AREAS WITH MULCH OR LABORATORY TESTED SEEDING AND MULCHED UNTIL, SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED.
- IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOWED, PAUL, GRADED AND IS SMOOTH, THE MULCHING CONSTRUCTION COMPANY MUST PROVIDE FRESH MULCH, FRESHLY TURNED AND APPLIED TO ALL EXPOSED AREAS. MULCHING CONSTRUCTION COMPANIES MUST PROVIDE FRESH MULCH, FRESHLY TURNED AND APPLIED TO ALL EXPOSED AREAS. MULCH SHALL NOT BE LEFT UNDEPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS IRETRIEVE IN THE ABOVE NUMBER.
- UNTIL, SUCH TIME AS FEATHERED CONDITIONS ALLOW DRICHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF HAY BALE/SAND BAR CHECK DAMS.
7. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE INSURED BY EITHER PEGG CUT, MULLIN NUTRIAL ASPHALT MULCHING CHEMICAL, TRUCK OR WOOD CELLULOSE FIBER.
- MULCH NETLING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAS WITH A SLOPE GREATER THAN 3% , FOR SLOPES EXPOSED TO DIRECT WIND, AND FOR ALL OTHER SLOPES GREATER THAN 8%.
- MULCH NETLING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST.
- THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

ALL EROSION MITIGATION SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE ACTIVITIES ON THE SITE.

**DUST CONTROL NOTES DURING CONSTRUCTION**

1. DUST SHALL BE CONTROLLED BY THE CONTRACTOR AS NEEDED, OR AS DIRECTED BY THE TOWN OR OWNER BY USING ONE OR MORE OF THE FOLLOWING TWO METHODS:

- A) WATER: THE CONTRACTOR SHALL SPRAY WATER OVER EXPOSED SOIL SURFACES UNTIL MOISTENED AS NEEDED TO CONTROL DUST.
- B) CALCIUM CHLORIDE: CALCIUM CHLORIDE SHOULD BE EITHER LOOSE DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH A SIEVE #40 AT A RATE THAT WILL KEEP THE SURFACE MOSTLY BUT NOT CAUSE POLLUTION OR ABLATION. THE CONTRACTOR SHALL APPLY CALCIUM CHLORIDE TO EXPOSED SOIL SURFACES (GRADER THAN 5% OR IN AREAS THAT WILL DRAIN DIRECTLY TOWARDS THE HIGHWAYS)

2. SPECIAL CONSIDERATION FOR DUST CONTROL SHALL BE GIVEN AT ALL SITE ACCESS DRIVEWAYS TO MINIMIZE THE AMOUNT OF DUST IN THE STREETS.

3. ALTERNATIVE METHODS FOR DUST CONTROL, SUCH AS THE USE OF MULCH OR SPRAY ON ADJACENTS SHALL BE REVIEWED WITH THE PROJECT ENGINEER PRIOR TO THEIR IMPLEMENTATION.

4 COURT STREET SUITE 104

FAX: (508) 824-9276


Revisions	


No.	Description
Date	5/7/14
Scale	N.T.S.

Drawn By	Designed By
DTB	RRR/DTB

Issued For

PERMITTING



COMMONWEALTH OF MASSACHUSETTS  
 RICCHIO III  
 CIVIL  
 No. 45898  
 DEPT. OF CORRECTIONS  
 PENITENTIARY

PROPOSED SITE DEVELOPMENT  
LOGAL, LLC

100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

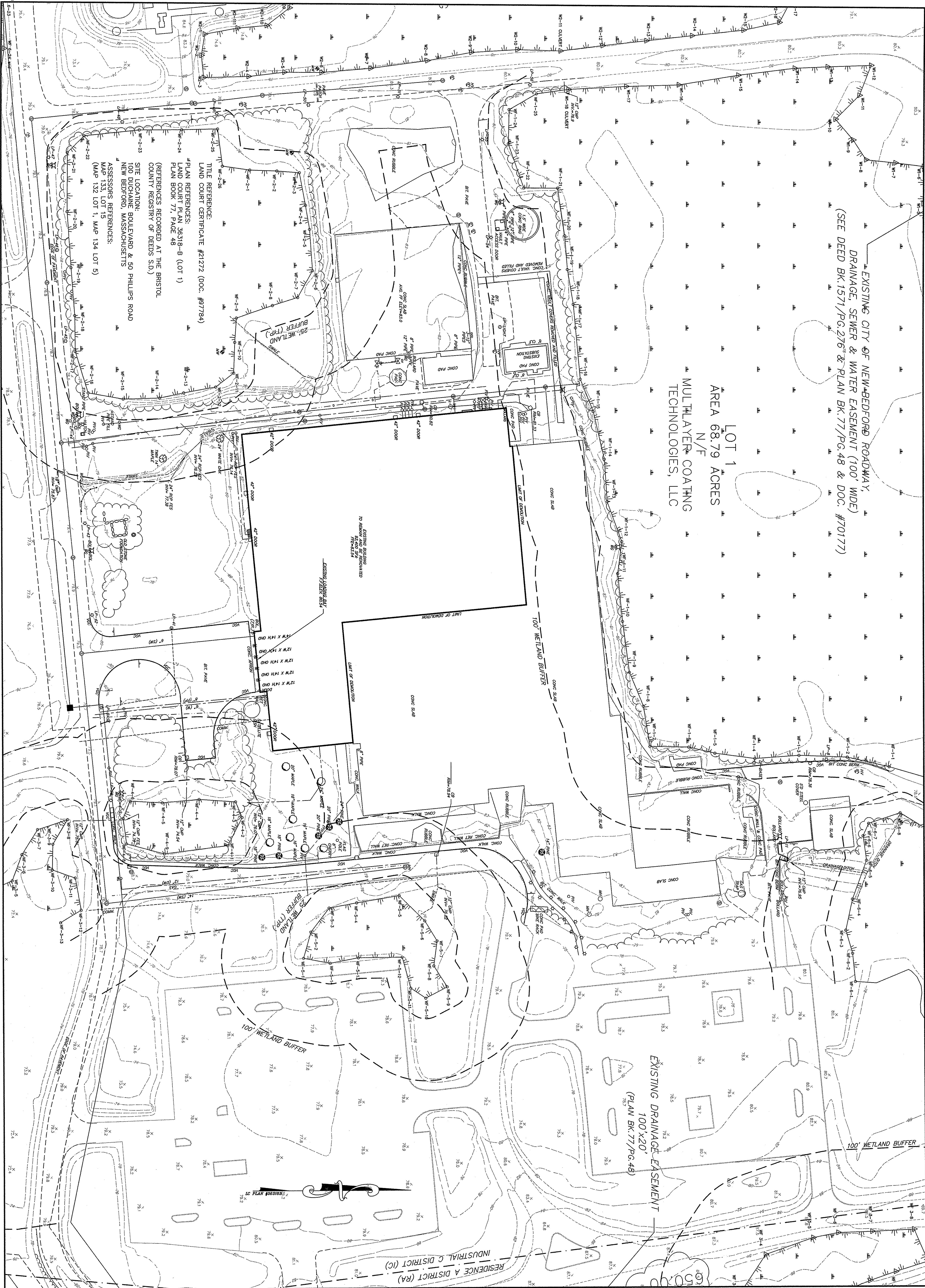
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NOTES  
LEGEND

1998

21





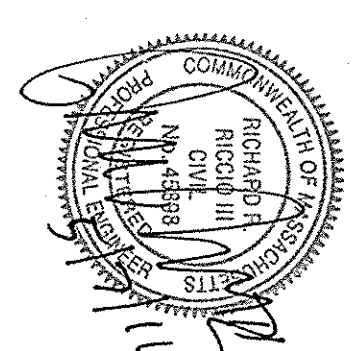
**FIELD  
ENGINEERING  
CO., INC.**  
CONSULTING ENGINEERS

110 INDUSTRIAL DRIVE  
P.O. BOX 1178  
MATTAPOSSETT, MA 02739  
TEL: (603) 758-2748  
FAX: (603) 758-2840

THE CROCKER BUILDING  
4 COUNTRY STREET SUITE 104  
TAUNTON, MA 02780  
TEL: (603) 824-9279  
FAX: (603) 824-9276

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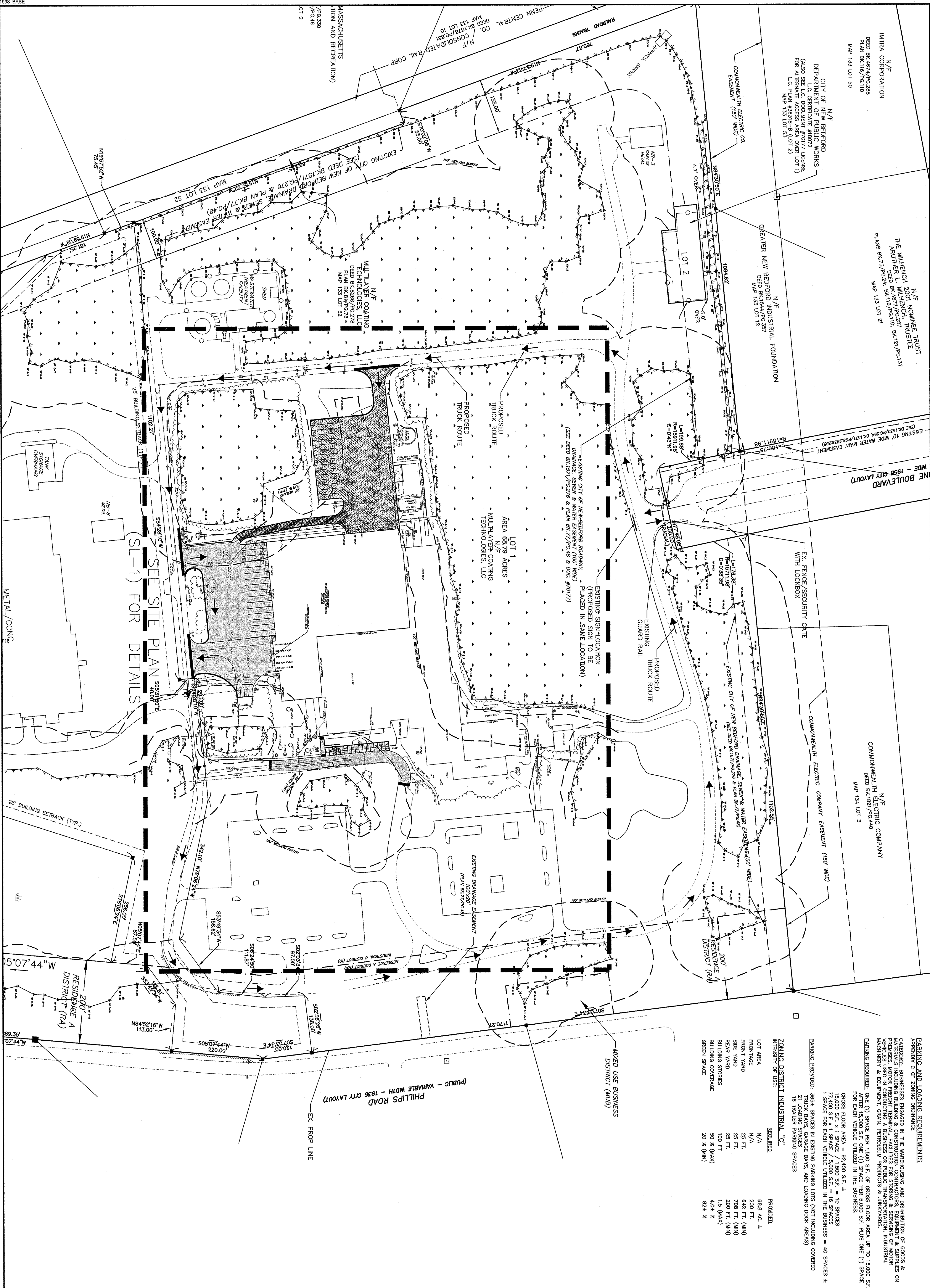
## PERMITTING



PROPOSED SITE DEVELOPMENT  
LOGAL, LLC

100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS





PARKING AND LOADING REQUIREMENTS

APPENDIX C OF ZONING ORDINANCE

CATEGORIES: BUSINESSES ENGAGED IN THE WAREHOUSING AND DISTRIBUTION OF GOODS & MATERIALS, INCLUDING BUILDING & CONSTRUCTION CONTRACTORS, EQUIPMENT & SUPPLIES ON PREMISES, MOTOR FREIGHT TERMINAL, FACILITIES FOR STORING & REMOVAL OF MOTOR VEHICLES USED IN CONDUCTING A BUSINESS OR PUBLIC TRANSPORTATION, INDUSTRIAL MACHINERY & EQUIPMENT, CRAN, FERTILIZER, PESTICIDES & LIQUID WASTE.

PARKING PROVIDED: 3654 SPACES IN EXISTING PARKING LOTS (NOT INCLUDING COVERED TRUCK BAYS, GARAGE BAYS, AND LOADING DOCK AREAS) 21 LOADING SPACES 16 TRUCKER PARKING SPACES

GROSS FLOOR AREA = 92,400 S.F. ± 15,000 S.F. x 1 SPACE / 1,500 S.F. = 10 SPACES 77,400 S.F. x 1 SPACE / 5,000 S.F. = 16 SPACES 1 SPACE FOR EACH VEHICLE UTILIZED IN THE BUSINESS = 40 SPACES ±

REQUIRED LOT AREA N/A FRONTAGE 200 FT. 642 FT. (MIN) 25 FT. 25 FT. 200 FT. (MIN) 100 FT. 50 % (MAX) 20 % (MIN) 824 %

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FIELD ENGINEERING CO., INC.

CONSULTING ENGINEERS

110 INDUSTRIAL DRIVE

TAUNTON, MA 02780

TEL: (508) 824-2779

FAX: (508) 824-2776

THE CROCKER BUILDING

4 COURT STREET SUITE 104

TAUNTON, MA 02780

TEL: (508) 824-2779

FAX: (508) 824-2776

MASSACHUSETTS

REGISTERED PROFESSIONAL ENGINEER

NO. 45889

RICHARD F. LOGAL

CIVIL ENGINEER

COMMONWEALTH OF MASSACHUSETTS

PLATE NO. 114

PERMITTING

Drawn By DTB

Designed By RRR/OTB

Checked By RRR

Issued For

Scale 1"=100'

Date 5/7/14

No. Description Date App'd

Revisions

Project No. 1998

Sheet 4 OF 8

Overall Site Layout

PROPOSED SITE DEVELOPMENT

LOGAL, LLC

100 DUCHAINE BOULEVARD

NEW BEDFORD, MASSACHUSETTS

Drawing Title

OSL-1



Drawn By	Designed By	Checked By
DTB	RRR/DTB	RRR

100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

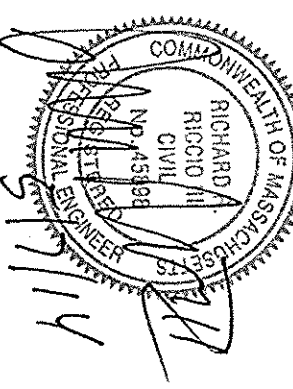
SL-1



LOT 1  
AREA 68.79 ACRES  
N/F  
MULTILAYER COATING  
TECHNOLOGIES, LLC

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**THE CROCKER BUILDING**  
4 COURT STREET SUITE 104  
TAUNTON, MA 02780  
TEL: (508) 824-9279  
FAX: (508) 824-9276



Drawn By	Designed By	Checked By
DTB	RRR/DTB	RRR

Drawn By	Designed By	Checked By
DTB	RRR/DTB	RRR

Scale  
1"=5'

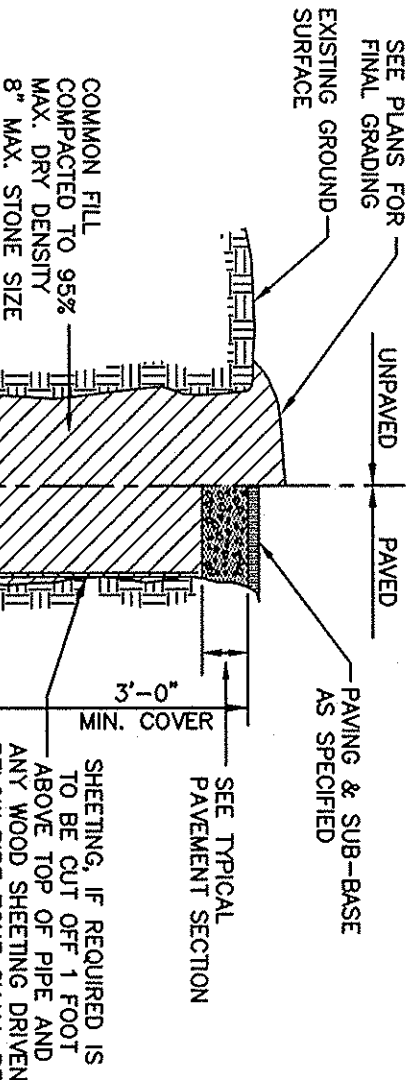
100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

Drawing Title

Project No.	Sheet
1998	6 OF 8

SGD-1

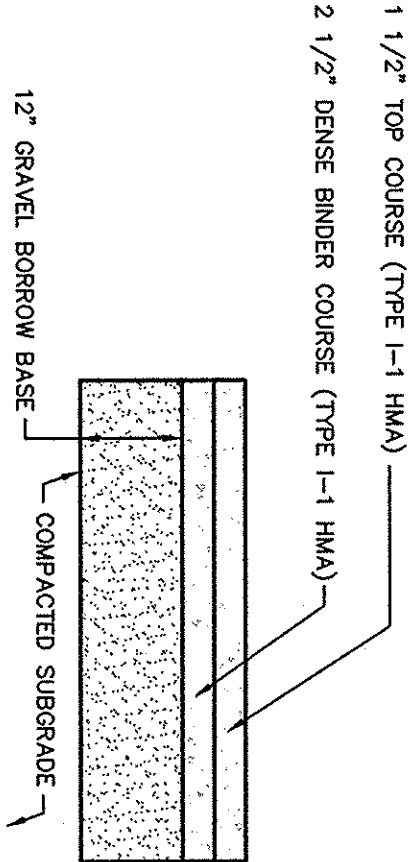




1. GRAVEL BORROW BASE SHALL CONFORM TO MASSDOT STANDARD SPECIFICATIONS FOR GRAVEL BORROW, SEC. A1.03.02 TYPE B COMPACTED TO 95% MAX. DRY DENSITY.  
2. BITUMINOUS PAVEMENT SHALL CONFORM TO MASSDOT STANDARD SPECIFICATIONS FOR CLASS 1 TYPE I-1 BITUMINOUS CONCRETE PAVEMENT FOR APPROVAL.

#### TYPICAL STANDARD PAVEMENT SECTION

NOT TO SCALE



1. GRAVEL BORROW BASE SHALL CONFORM TO MASSDOT STANDARD SPECIFICATIONS FOR GRAVEL BORROW, SEC. A1.03.02 TYPE B COMPACTED TO 95% MAX. DRY DENSITY.  
2. BITUMINOUS PAVEMENT SHALL CONFORM TO MASSDOT STANDARD SPECIFICATIONS FOR CLASS 1 TYPE I-1 BITUMINOUS CONCRETE PAVEMENT FOR APPROVAL.

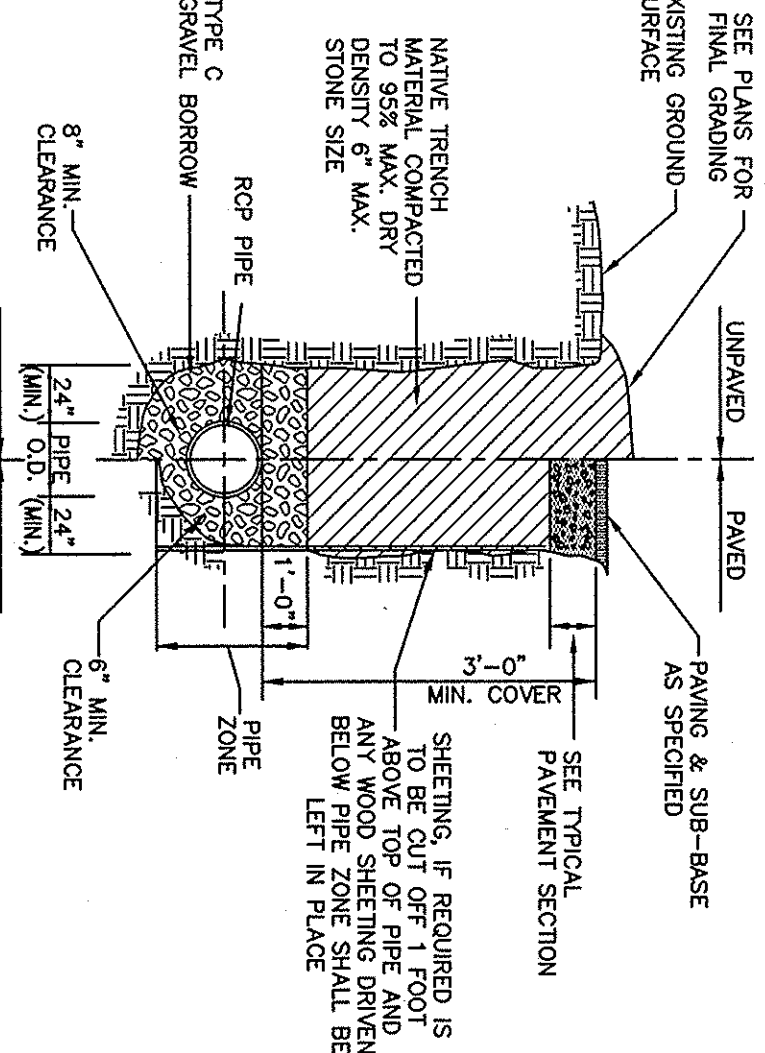
#### TYPICAL HEAVY DUTY PAVEMENT SECTION

NOT TO SCALE

#### HDPE TRENCH DETAIL

NOT TO SCALE

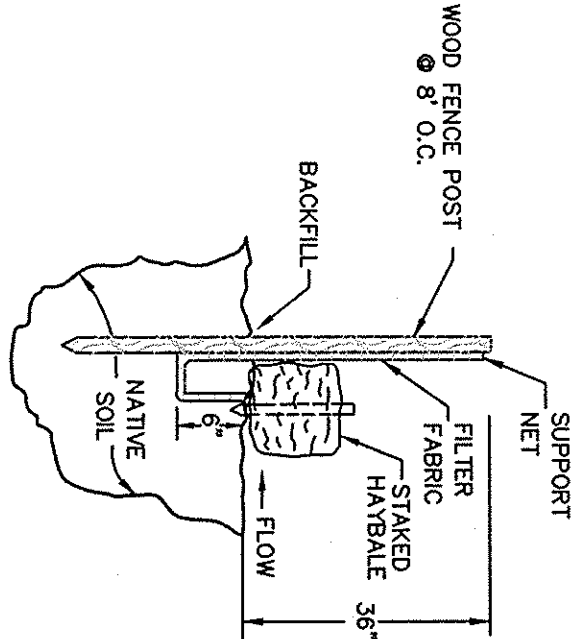
1. TYPE C GRAVEL BORROW SHALL CONFORM TO MASSDOT SPECIFICATION M1.03.02
2. CRUSHED STONE SHALL CONFORM TO MASSDOT SPECIFICATION M1.02.01.4



1. TYPE C GRAVEL BORROW SHALL CONFORM TO MASSDOT SPECIFICATION M1.03.02
2. CRUSHED STONE SHALL CONFORM TO MASSDOT SPECIFICATION M1.02.01.4

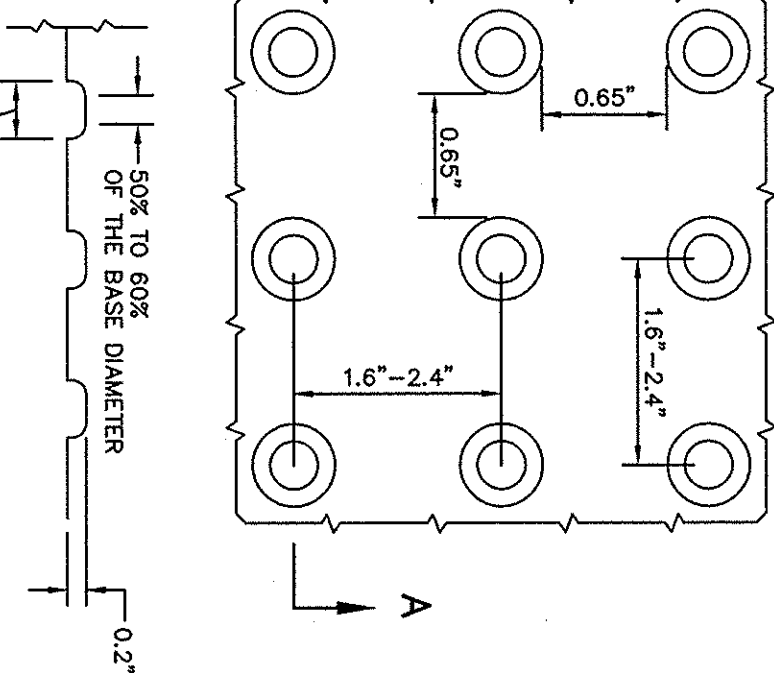
#### D1/RCP TRENCH DETAIL/PAY LIMIT

NOT TO SCALE



#### TYPICAL SILT FENCE DETAIL

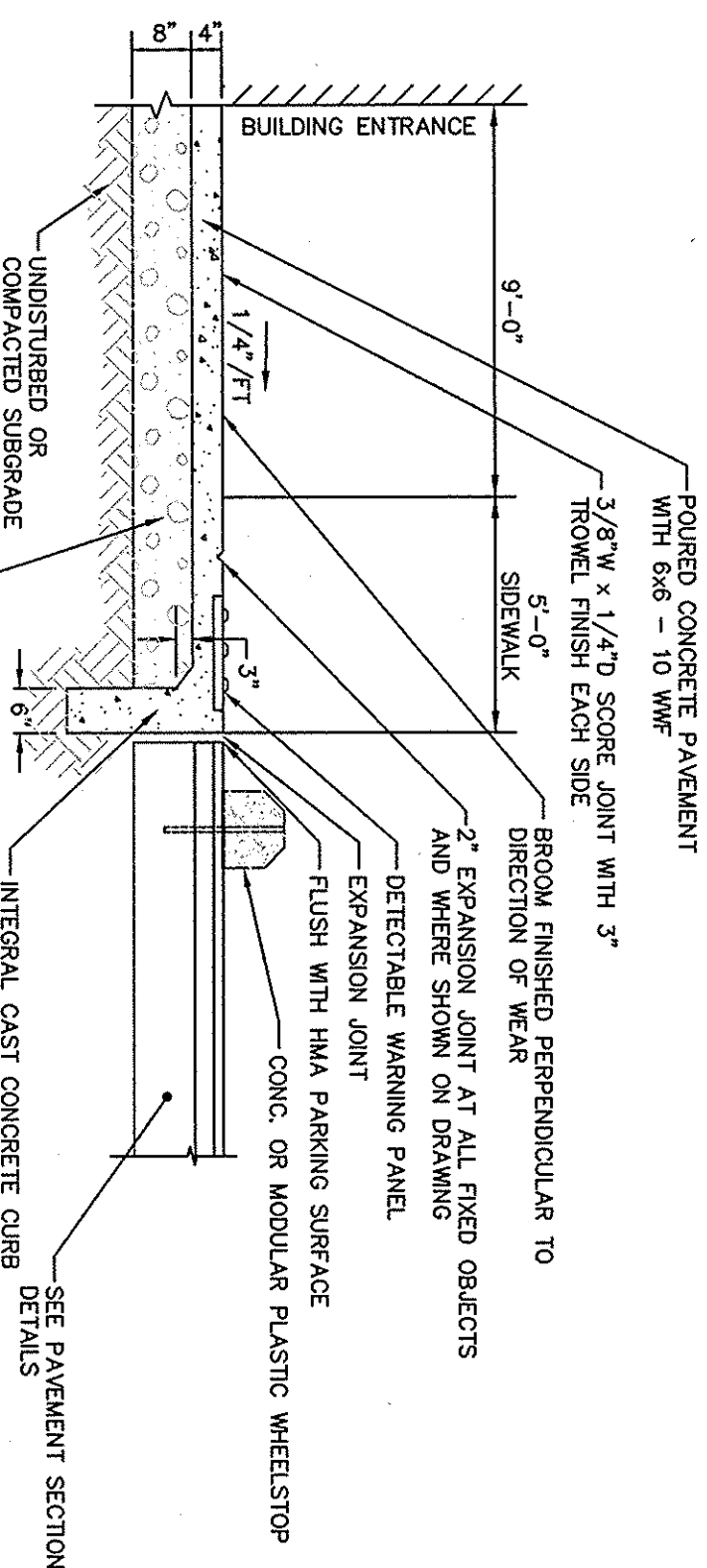
NOT TO SCALE



#### DETECTABLE WARNING PANEL DETAIL

NOT TO SCALE

- NOTE:  
1. PANELS SHALL BE MANUFACTURED BY ADA SOLUTIONS, INC.  
2. PANELS SHALL BE YELLOW IN COLOR UNLESS OTHERWISE SPECIFIED.

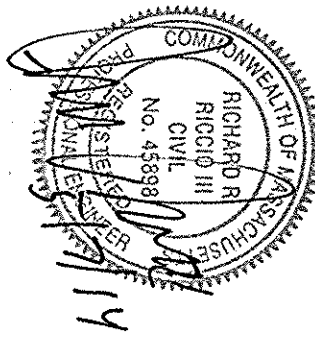


#### CEMENT CONCRETE SIDEWALK SECTION

NOT TO SCALE

- NOTES:  
1. SCORE JOINT SPACING: MIN. - 4'-0" MAX. - 6'-0", UNLESS OTHERWISE SHOWN ON PLAN.  
2. EQUAL SPACING BETWEEN EXPANSION JOINTS, 32'-0" MAX., UNLESS OTHERWISE SHOWN ON PLAN.  
3. CEMENT CONCRETE SHALL CONFORM TO MASSDOT SPEC. M4.02.01, WITH A CEMENT CONTENT OF 869#/C.Y.; MAX. AGGREGATE SIZE 3/8"

**FIELD ENGINEERING CO., INC.**  
CONSULTING ENGINEERS  
110 INDUSTRIAL DRIVE  
P.O. BOX 1178  
MATTAPAN, MA 02739  
TEL: (508) 758-2749  
FAX: (508) 758-2849  
THE CROCKER BUILDING  
4 COURT STREET, SUITE 104  
TALBOTT, MA 02780  
TEL: (508) 824-9279  
FAX: (508) 824-9270



#### PERMITTING

Drawn By	Designed By	Checked By
DTB	RRP/DTB	RRR

Issued For

Scale N.T.S.

Date 5/7/14

No. Description Date Apprd

Revisions

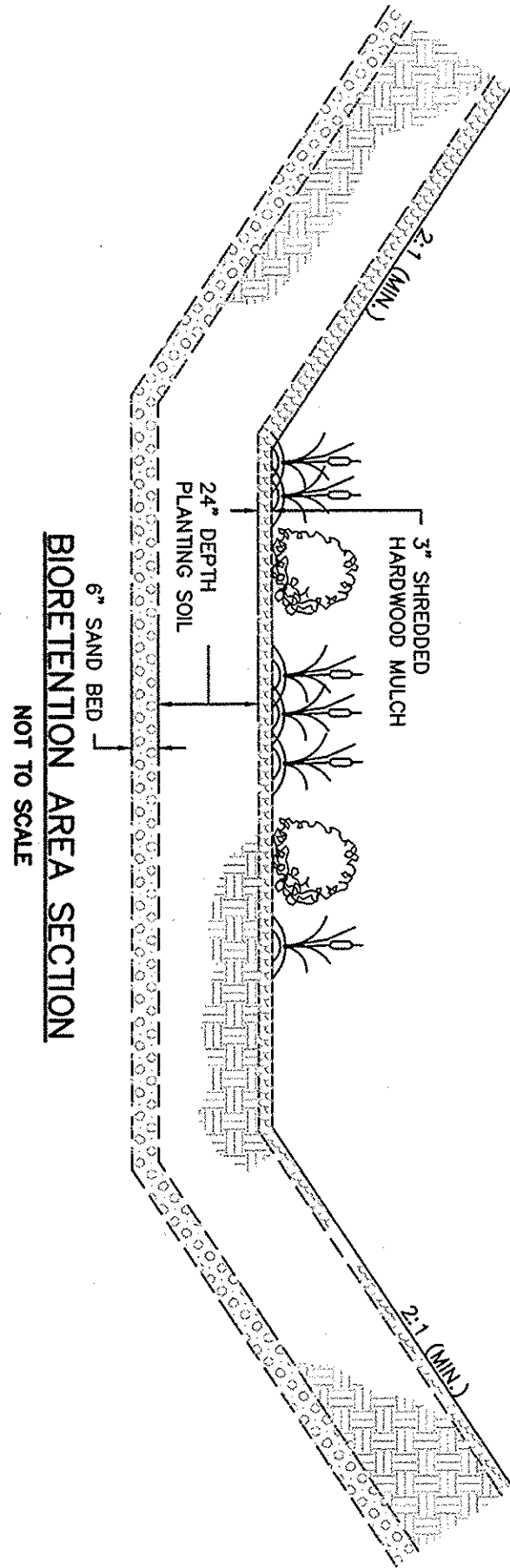
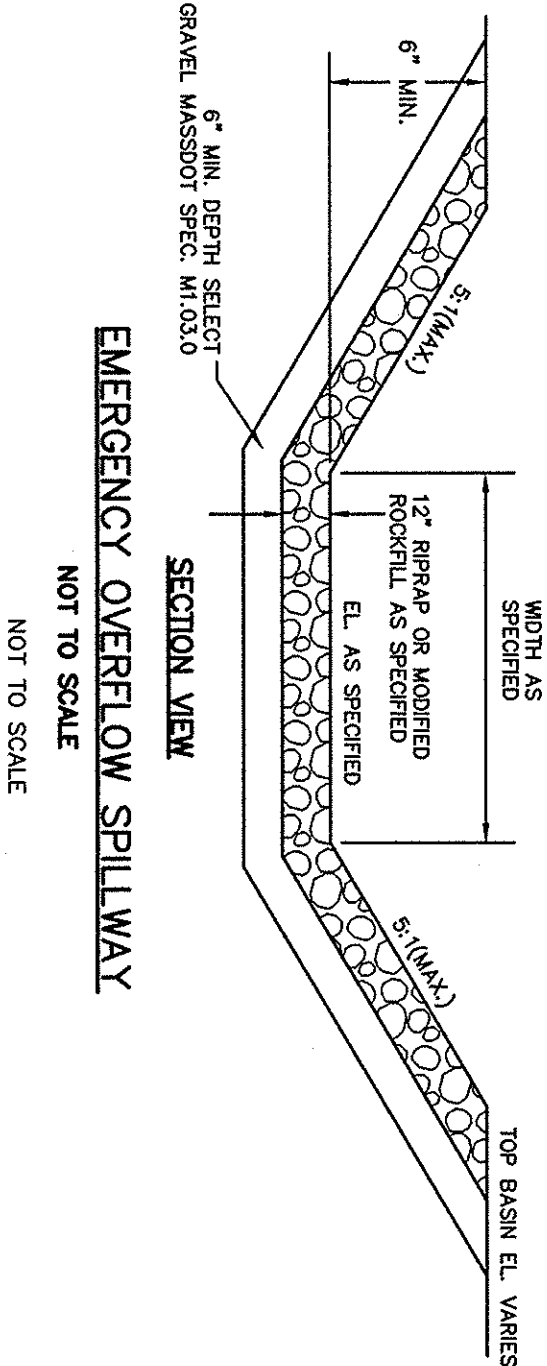
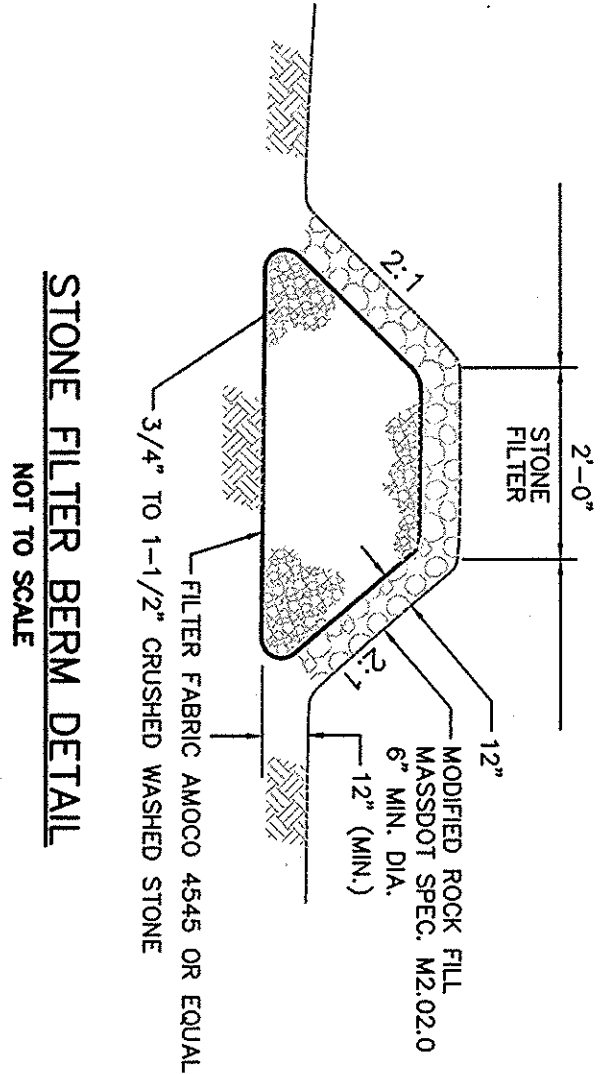
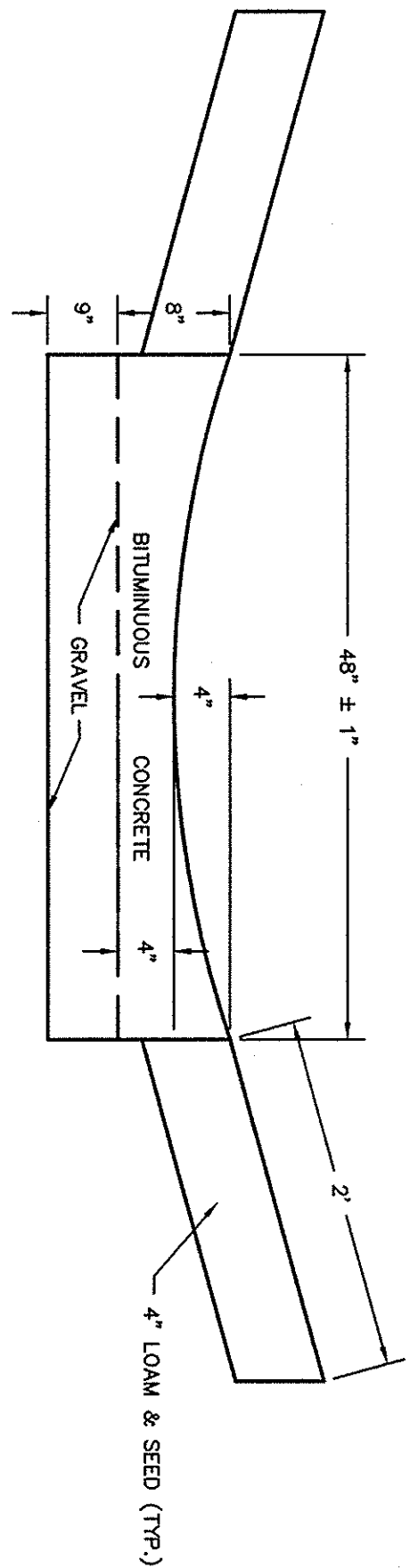
#### PROPOSED SITE DEVELOPMENT LOGAL, LLC

100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

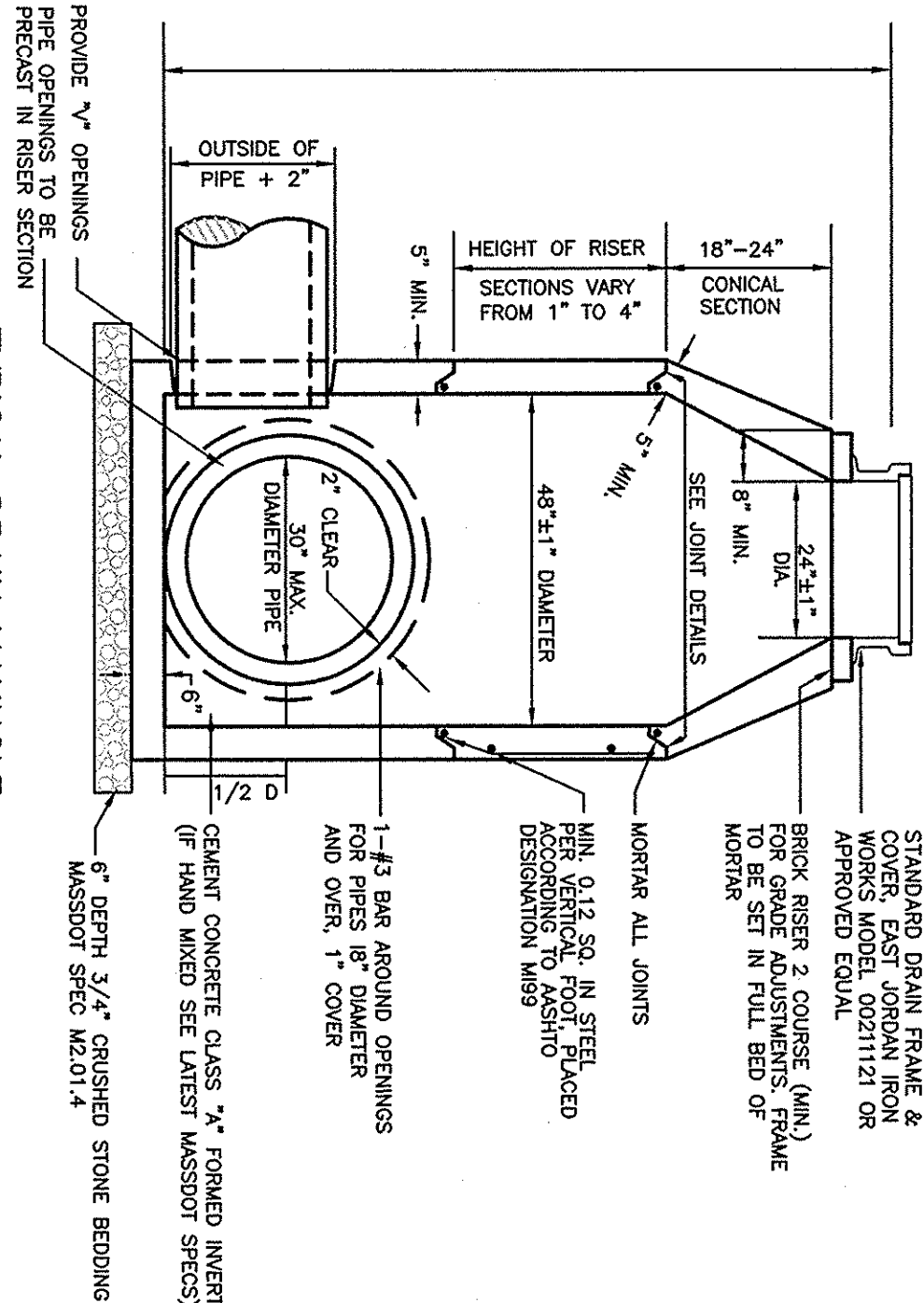
Drawing Title

#### DETAIL SHEET 1

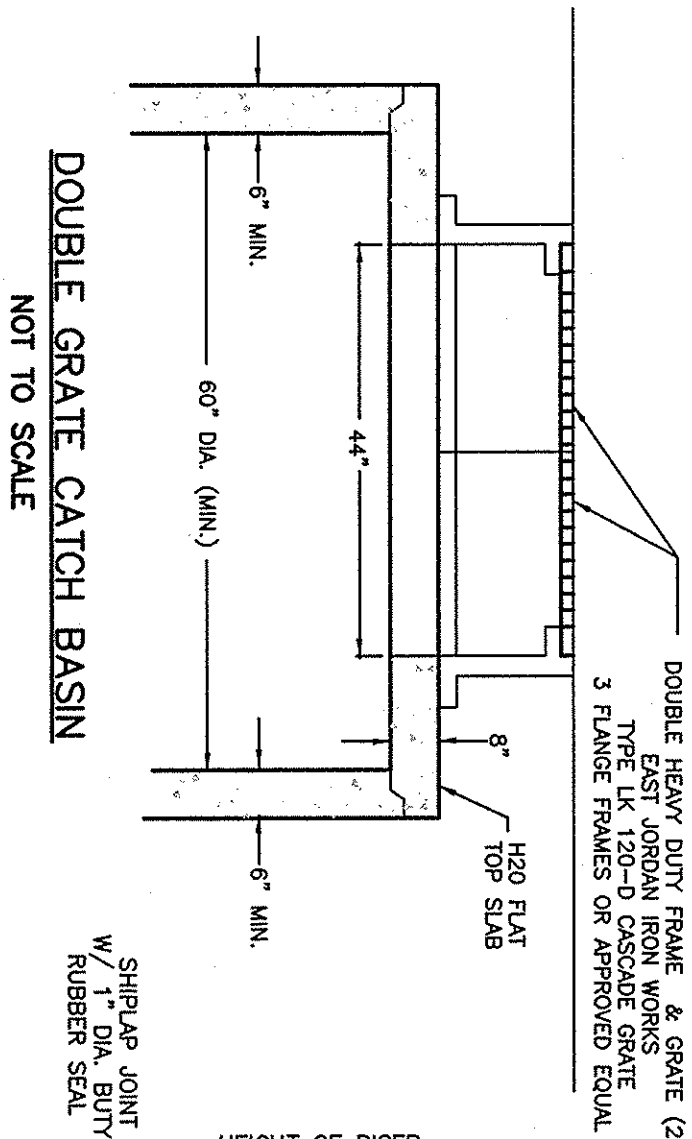
Project No. 1998 Sheet 7 OF 8



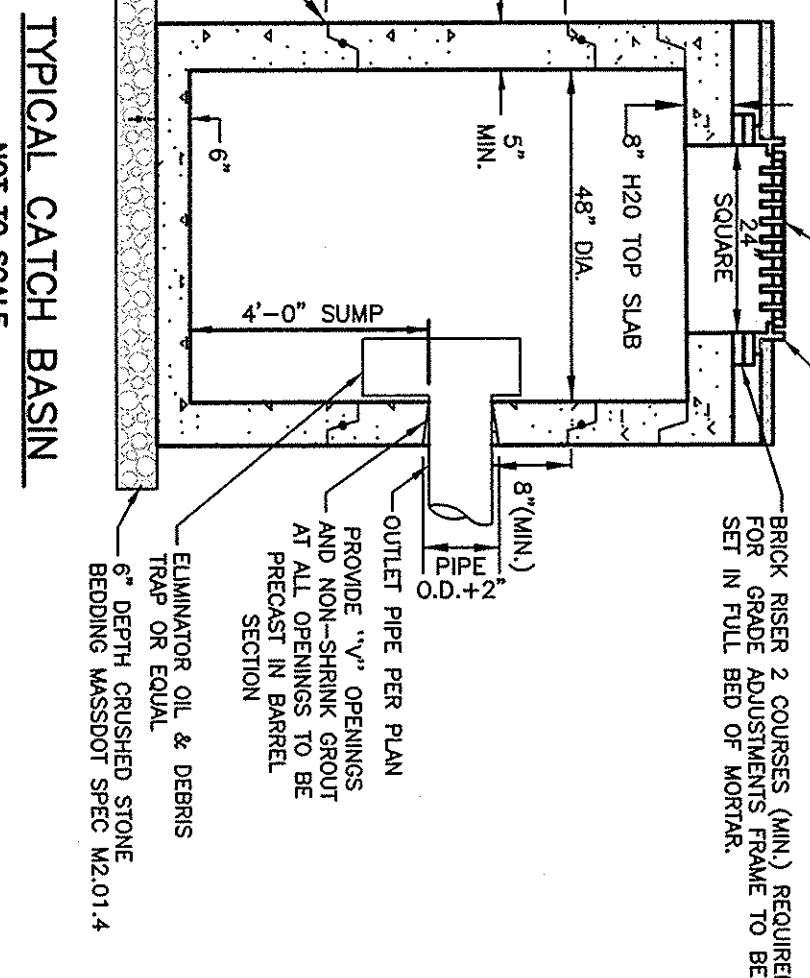
- 1.) PLANTING SOIL MIX SHALL BE A MIXTURE OF SAND COMPOST AND SOIL COMPOSED OF THE FOLLOWING:  
40% SAND  
20% COMPOSTED TOPSOIL  
30-40% COMPOST  
CLAY CONTENT <3%  
PH 5.5-6.5  
SOLUBLE SALT < 500 PPM
- 2.) SAND BED SHALL CONFORM TO ASTM D422 MAX. STONE SIZE - 3/4 INCH AND NO GREATER THAN 3.0% PASSING NO. 200 SIEVE.
- 3.) BOTTOM AREA TO BE PLANTED WITH A MIX OF 2\"/>



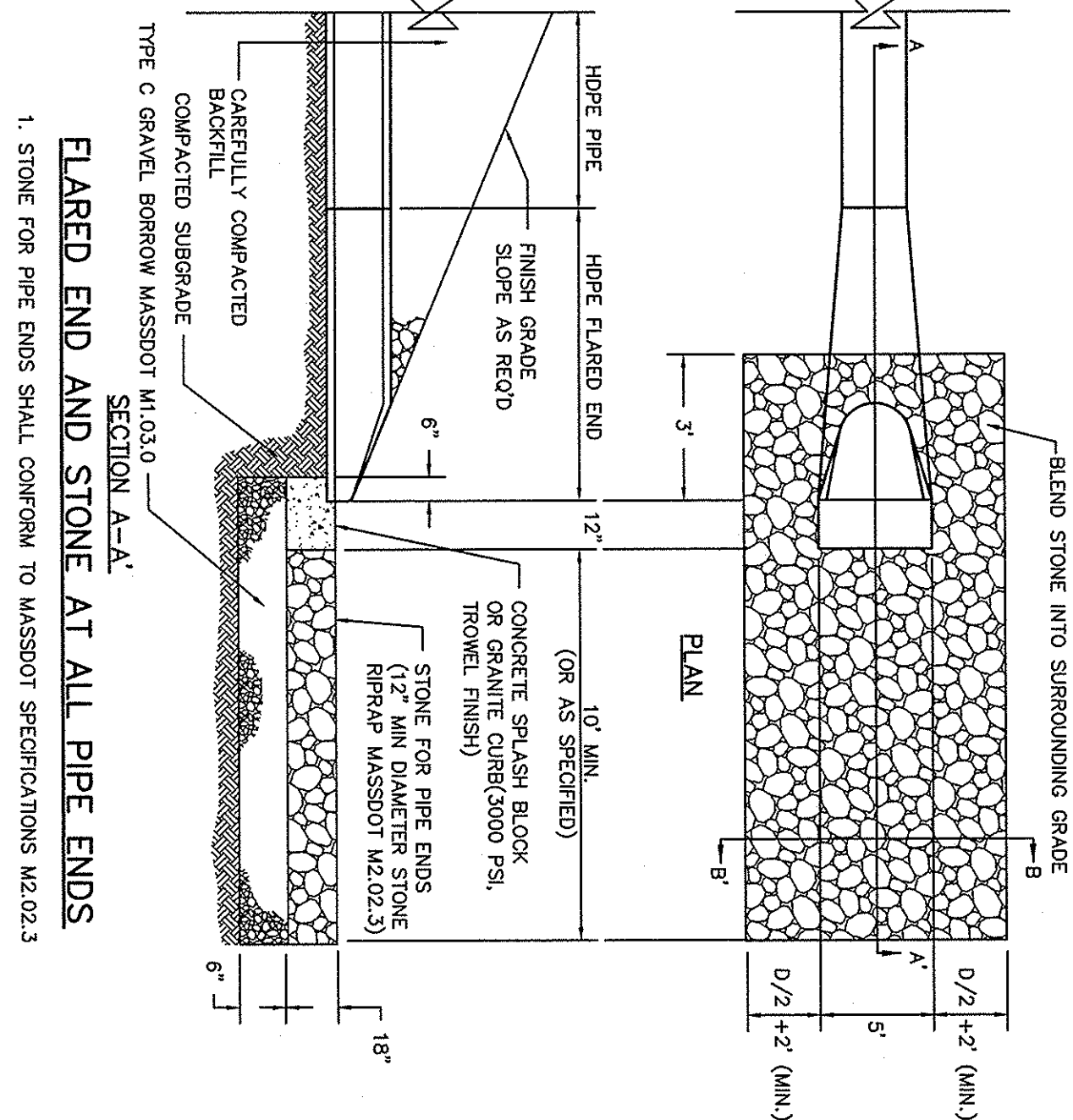
- NOTES:
1. MANHOLE DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
  2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
  3. USE THE TOP LAB WHERE FINISHED GRADE ELEVATIONS PROHIBIT THE USE OF SECTION 1.
  4. FILL OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHINK MORTAR.
  5. WHERE DRAIN MANHOLES OF GREATER DIAMETER ARE SPECIFIED ON THE PLANS, THE CONSTRUCTION SHALL MEET THE TYPICAL DRAIN MANHOLE SPECIFICATIONS.



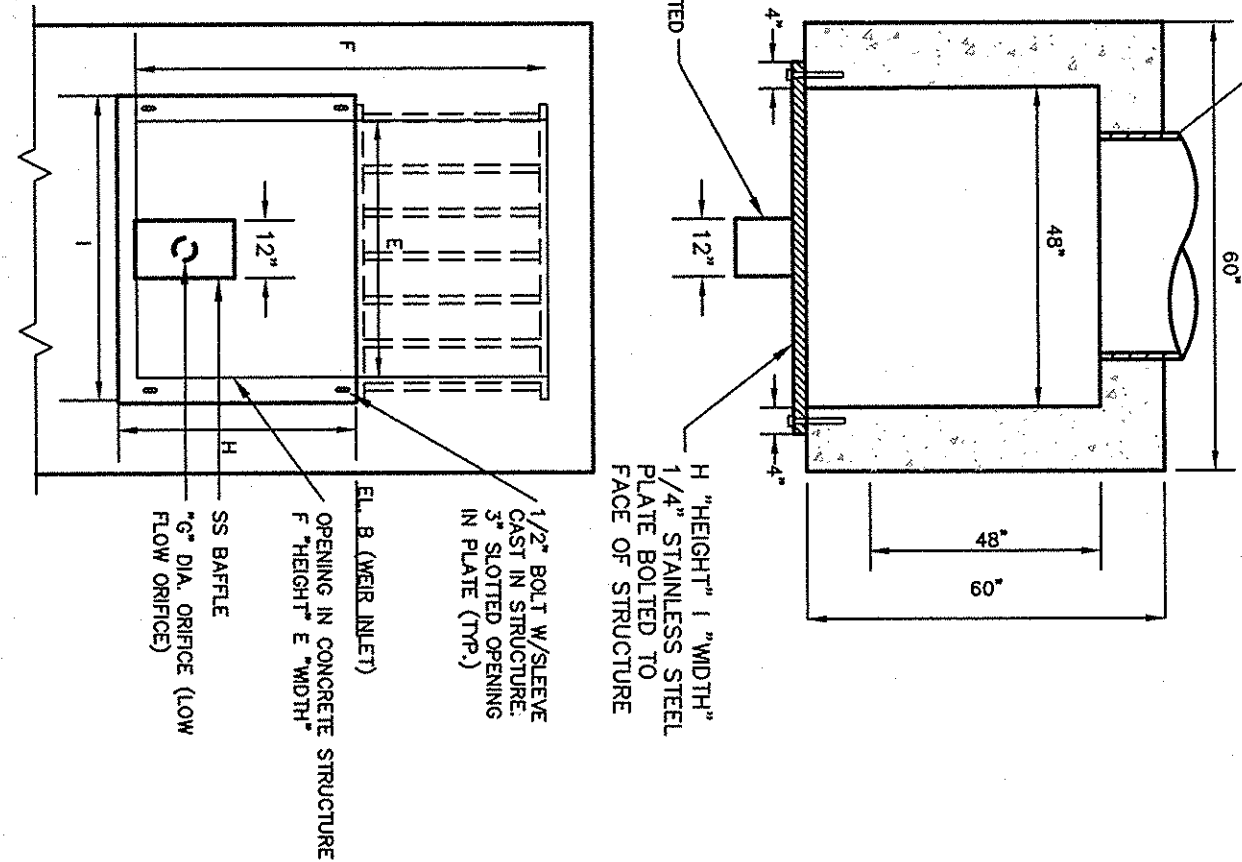
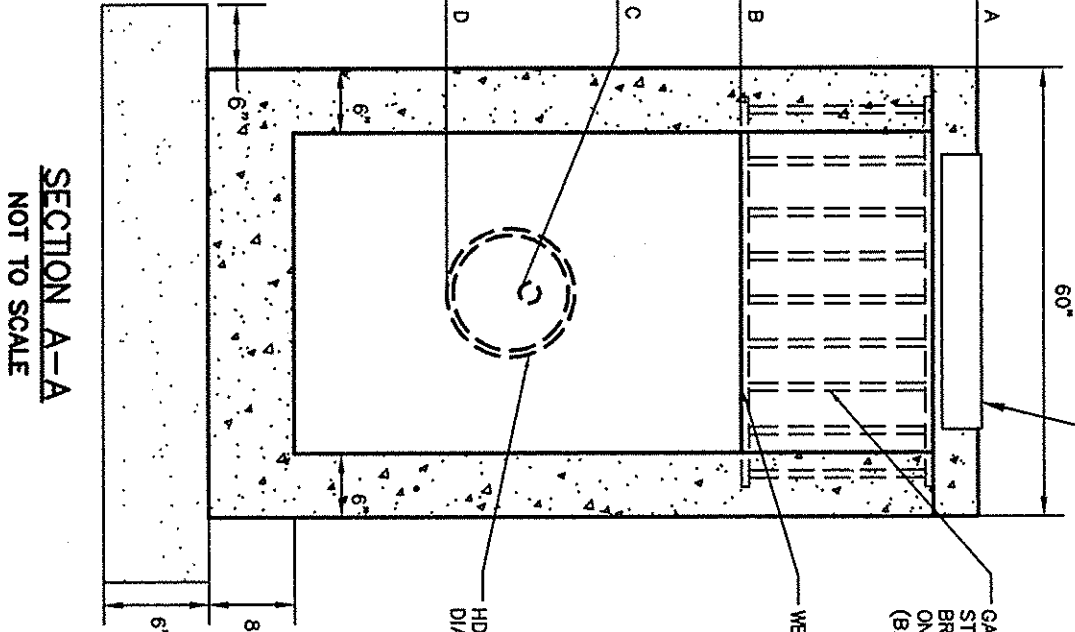
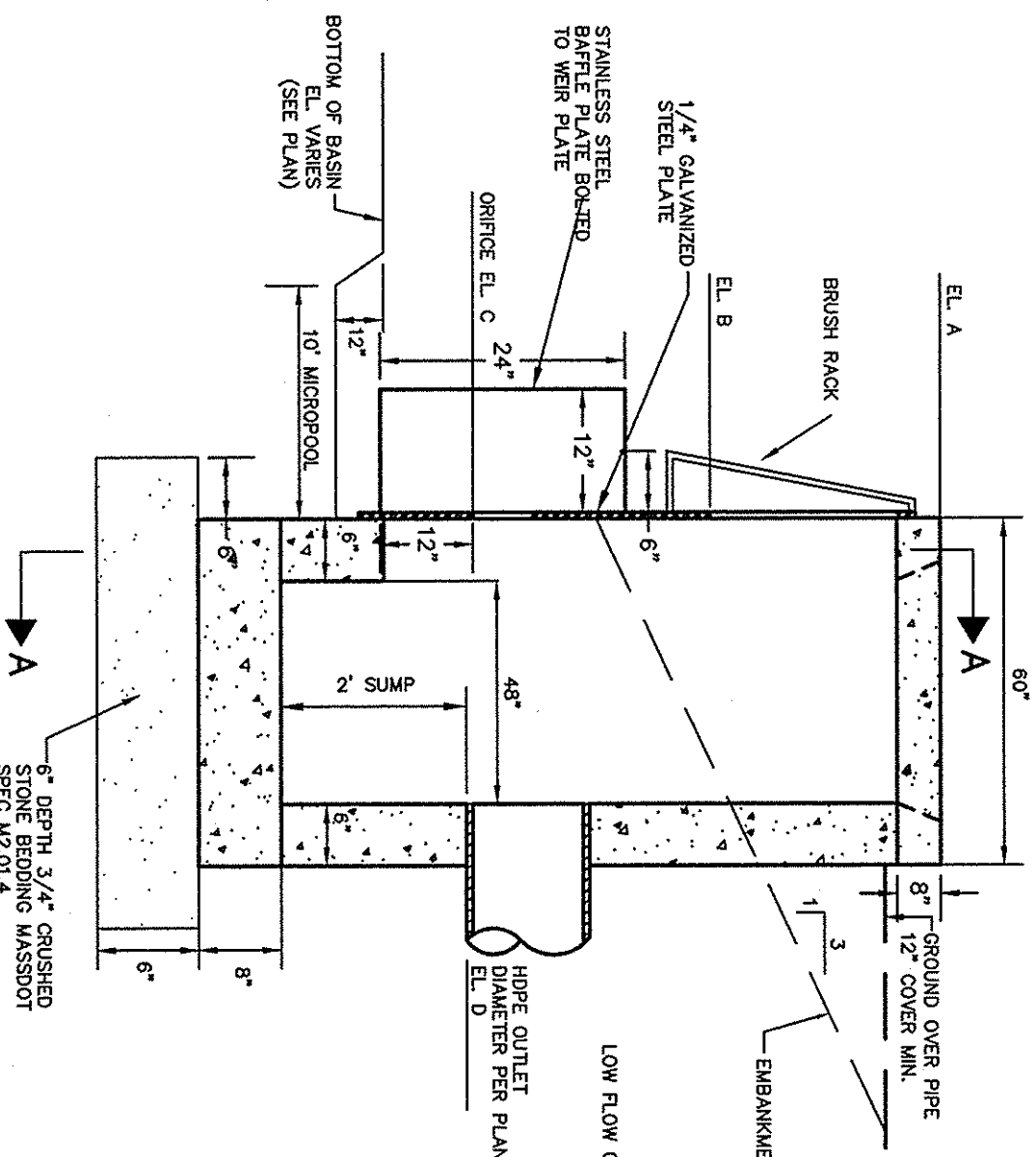
- NOTES:
1. CATCH BASIN DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
  2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
  3. OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHINK MORTAR.
  4. BASIN SECTION TO BE MONOLITHIC.
  5. REFER TO TYPICAL CATCH BASIN DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.



- NOTES:
1. CATCH BASIN DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
  2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
  3. OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHINK MORTAR.
  4. BASIN SECTION TO BE MONOLITHIC.
  5. WHERE CATCH BASIN OF GREATER DIAMETER ARE SPECIFIED ON THE PLANS, THEIR CONSTRUCTION SHALL MEET THE TYPICAL CATCH BASIN SPECIFICATIONS.



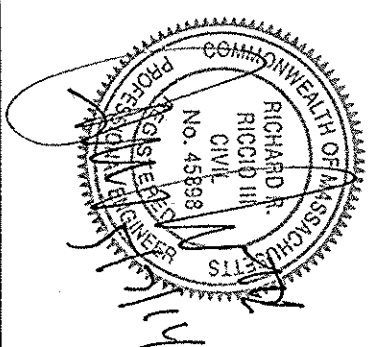
- NOTES:
1. STONE FOR PIPE ENDS SHALL CONFORM TO MASSDOT SPECIFICATIONS M2.02.3



STRUCTURE:	A	B	C	D	E	F	G	H	I
BIORETENTION AREA 3	78.00'	76.50'	75.50'	75.00'	48"	36"	4"	18"	54"

FLOW CONTROL STRUCTURE  
NOT TO SCALE  
ELEVATION/DIMENSION TABLE

**FIELD ENGINEERING CO., INC.**  
CONSULTING ENGINEERS  
110 INDUSTRIAL DRIVE  
P.O. BOX 4178  
MATTAPOSETT, MA 02739  
TEL: (608) 759-2749  
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THE CROCKER BUILDING  
140 COURT STREET SUITE 104  
MATTAPOSETT, MA 02739  
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FAX: (608) 824-6276



## PERMITTING

Drawn By	Designed By	Checked By
DTB	RRD/TB	RRR
Issued For		

Scale N.T.S.

No.	Description	Date	App'd
		5/7/14	

## Revisions

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PROPOSED SITE DEVELOPMENT  
LOGAL, LLC  
100 DUCHAINE BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

Drawing Title  
DETAIL  
SHEET 2

Project No.  
1998

Sheet  
8 OF 8

D-2