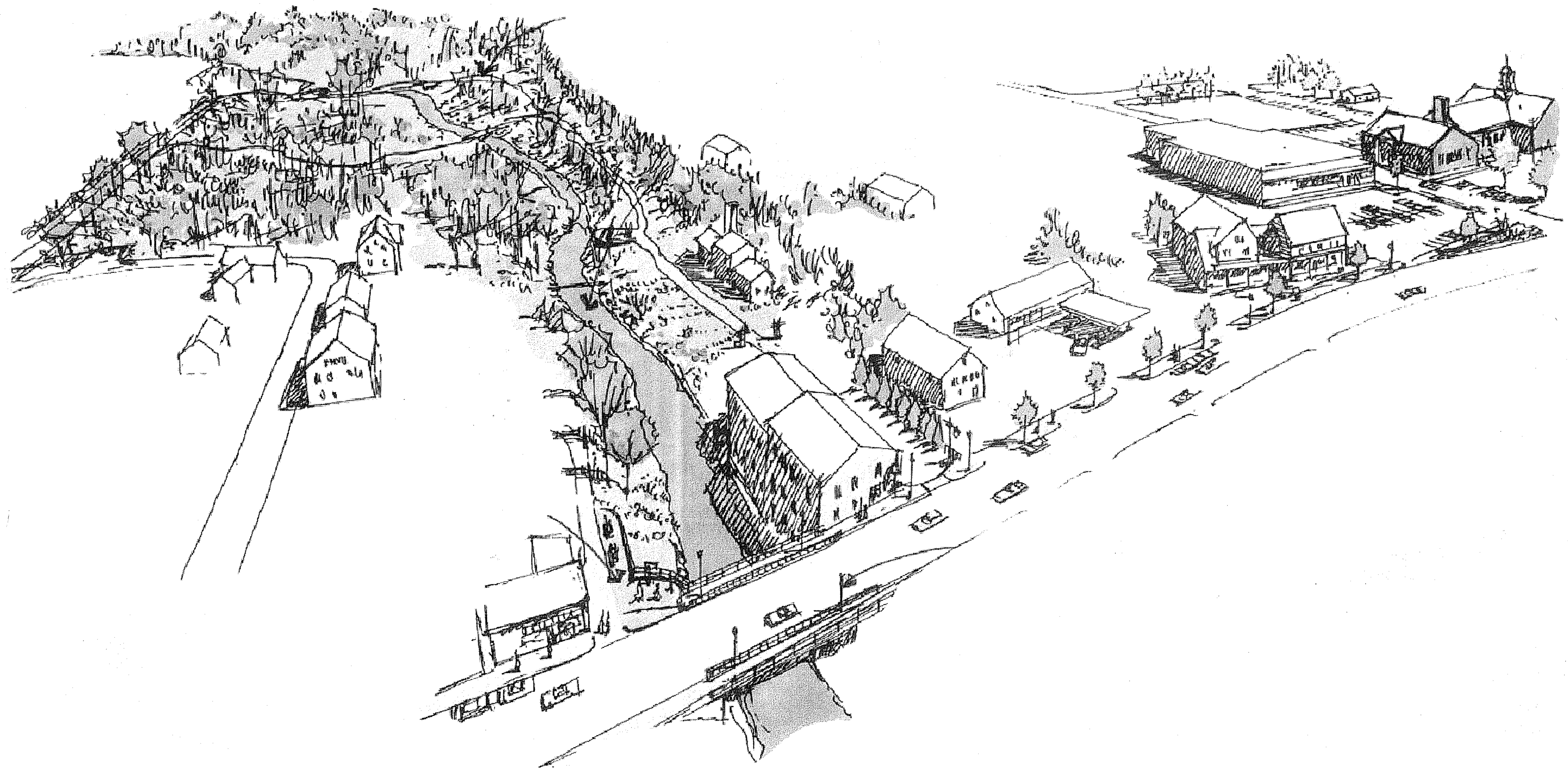


PROJECT SKETCH

NOTE:
EXISTING GRADES AND LAYOUT OF EXISTING SITE INFORMATION SHOWN ON THESE PLANS ARE FROM INFORMATION SUPPLIED BY THE TOWN OF GLOCESTER, RHODE ISLAND, GPS SURVEY INFORMATION PROVIDED BY BETA, Inc., AND DIGITAL TERRAIN MAPPING PROVIDED BY WATERMAN ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF ACTUAL SITE GRADE AND LAYOUT CONDITIONS. GATES, LEIGHTON & ASSOCIATES, INC. ACCEPTS NO RESPONSIBILITY FOR EXISTING TOPOGRAPHIC AND SITE INFORMATION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 08-0069
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Carey

DAVID M. D'AMICO
No. 6749
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
9/24/08

Chepachet River Park

Chepachet, Rhode Island

Phase 2 Permitting

PREPARED FOR:

The Town of Glocester
1145 Putnam Pike
Chepachet, Rhode Island

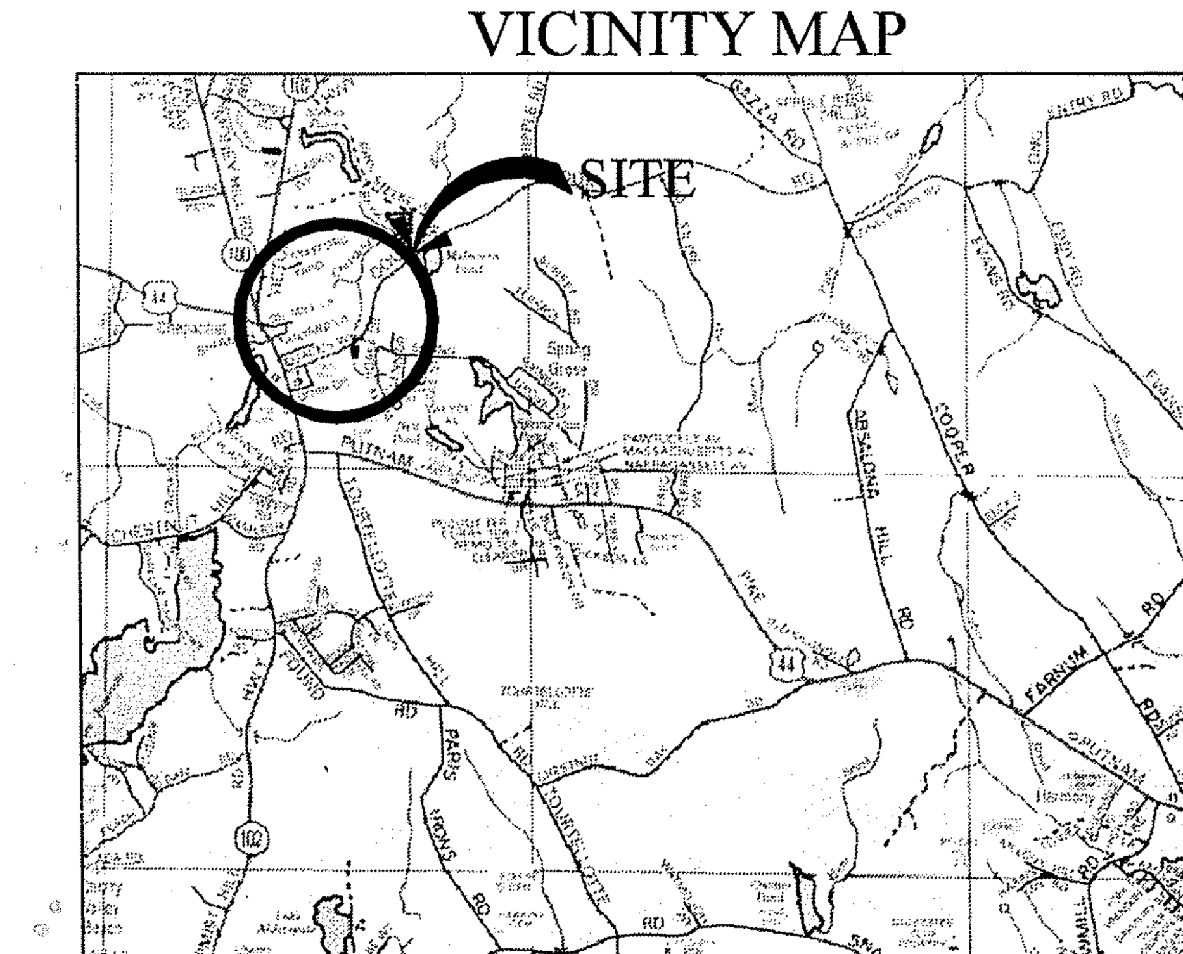
PREPARED BY:

Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glari@glala.com

CDE
CASALI & D'AMICO ENGINEERING, Inc.

DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS
1050 MAIN STREET, P.O. BOX 1424
EAST GREENWICH, R.I. 02818
TEL 401-884-9790
FAX 401-884-6832

VICINITY MAP



INDEX OF PAGES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

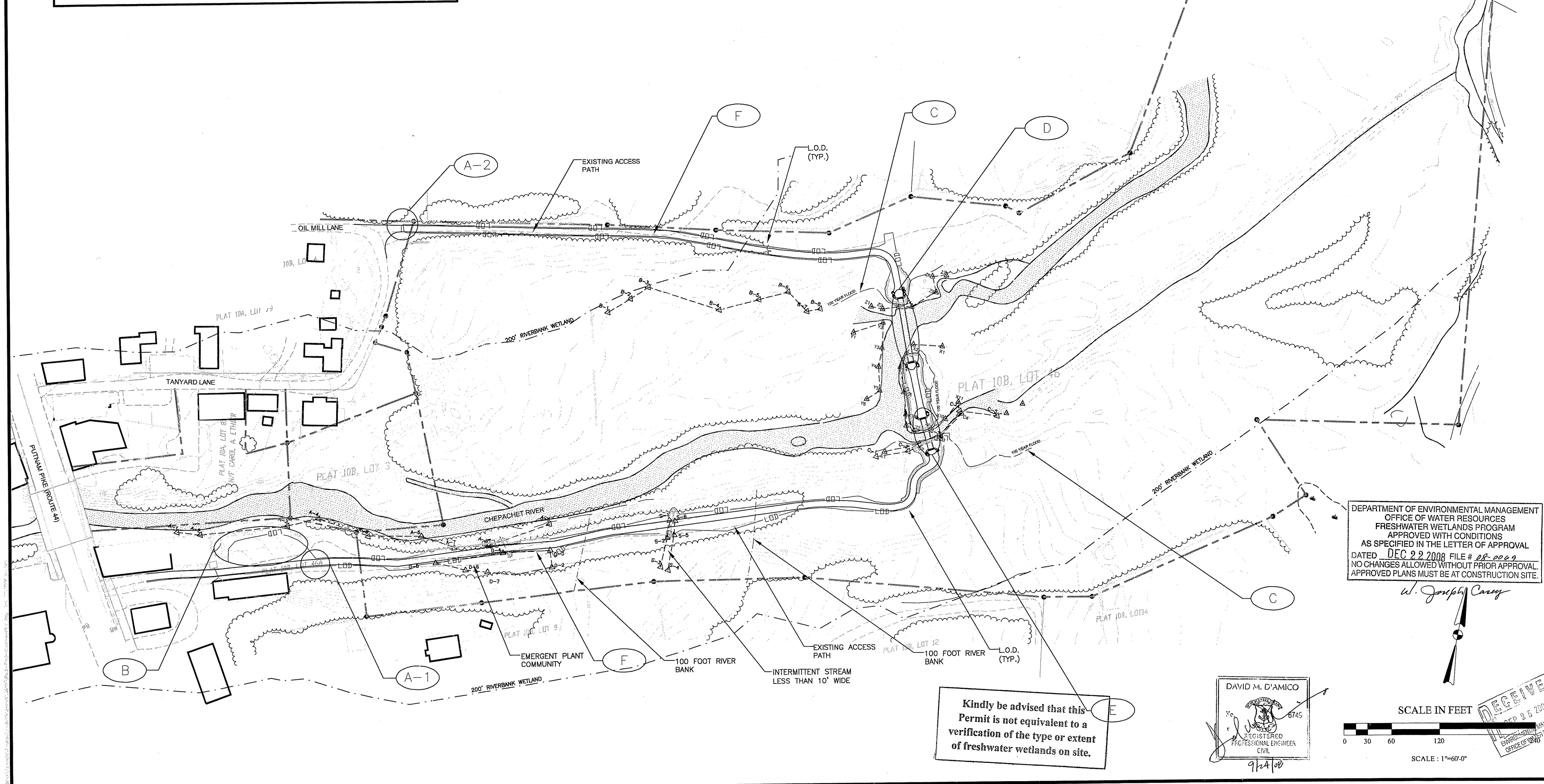
RECEIVED
SEP 25 2008
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

PERMITTING SET
March, 2008

REVISION SET
September, 2008

PLAN FEATURES & KEY ACTIVITIES

A–1	Construction Access South
A–2	Construction Access North
B	Laydown Area (Material Storage Area, Sanitary Facilities, & Assembly Space)
C	100 Year Flood Plain
D	Pedestrian Bridge A Span North (80' Span)
E	Pedestrian Bridge B Span South (30' Span)
F	Pedestrian Walkway



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DAVID M. D'AMICO
6745
REGISTERED PROFESSIONAL ENGINEER CIVIL
9/24/08

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Revisions:
PERMITTING: SEPTEMBER, 2008

Job No: P-920
Dwg No: PO.1
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

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CASALI & D'AMICO ENGINEERING, INC.

DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS

PROJECT OVERVIEW
CHEPACHET RIVER PARK PHASE II
GLOCESTER, RHODE ISLAND

Permitting Documents

LEGEND

EDGE OF PAVEMENT
CURB
GUARDRAIL
MAILBOX
UTILITY POLE
POLE GUY
LUMINARE
SIGN
UNDERDRAIN
STORMDRAIN
SANITARY SEWER
WATER MAIN
GAS MAIN
TELEPHONE DUCT
ELECTRIC DUCT
SUBDRAIN
WATER GATE
GAS GATE
CATCH BASIN
MANHOLE
HYDRANT
BASELINE OR CENTERLINE
PROPERTY LINE
PAVED WATERWAY
CONTOUR LINE
STONE BOUND
RETAINING WALL
FIELD STONE WALL

BORINGS
TEST PIT
FENCE
WOOD OR BRUSH LINE
TREES
RIVER OR STREAM
STANDING WATER
ASSF / WETLAND
BUILDING
FOUNDATION
CUT & MATCH
RIP-RAP
CUT SLOPE
FILL SLOPE
ROCK CUT
AREA GRADED TO DRAIN
EDGE OF WETLAND
AREA SUBJECT TO STORM FLOWAGE
100 YEAR FLOOD PLAIN
PROPERTY LINE

PROPOSED

PROPOSED DECIDUOUS TREES
PROPOSED EVERGREEN TREES
PROPOSED SHRUBS & PERENNIALS
HAYBALES/ SILT EROSION CONTROL COMBINATION
SILT FENCE
LIMIT OF DISTURBANCE — LOD
100' RIVERBANK WETLAND — 100' RIVERBANK WETLAND
200' RIVERBANK WETLAND — 200' RIVERBANK WETLAND

SPECIAL PLANT REQUIREMENTS AND NOTES

1. All plant material must be tagged in the ground, at the nursery by the Landscape Architect. All plant material shall be commercially obtained and shall meet the American Association of Nurseryman standards for nursery stock, latest edition, and its amendments. Plant only during season normal to the particular variety. All plant inspections will be at the expense of the contractor. Permanent seals will be required.

2. Cover all planting beds with 3" shredded hardwood bark mulch within a seventy-two hour period after planting. See plan for bed layout.

3. All existing and proposed trees shown in lawn areas shall receive a 6' diameter mulch bed. Mulch shall be placed to a depth of 3". Remove all sod, roots, sticks and stones prior to placement of mulch.

4. All plant materials furnished by the contractor shall be guaranteed for a period of one year from final acceptance of landscape work.

5. Stake all trees over 5' as shown on details. Remove stakes at the end of the guarantee period.

6. The contractor is responsible for keeping the site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plans.

7. The contractor shall perform all work in accordance with all local, state, and federal regulations, and shall obtain all necessary permits for this project.

8. Layout: All notes and dimensions are typical unless otherwise noted. All dimensions are square (parallel or perpendicular) unless otherwise noted. The contractor shall notify the owner/owner's representative immediately in the event of any discrepancies found in the contract documents and/or in the field, or of conditions uncovered in the work which are not reflected in the plans.

9. Loam: Loam moved during the course of construction shall be retained and distributed within the site in accordance with the landscape plan. Stockpiled loam shall not be mixed with any subsoil or unsuitable materials. All excess loam shall remain on the property of the owner. New loam if required to provide the specified depth, shall be a fertile, friable medium textured sandy loam free of material toxic to healthy plant growth. Loam shall also be free of all stumps, roots, stones and other extraneous matter an inch (1") or greater in diameter. The PH shall be between 5.5 and 7.5 when tested.

10. Lawn Preparation: Remove all debris and other inorganic materials on the prepared subgrade, reshape and dress any damaged or eroded area prior to spreading the loam. Scarify and loosen subgrade in any areas where compaction may have occurred. Spread stockpiled and off-site loam on all disturbed areas to produce a depth of 6". Fine grade loamed areas to produce a smooth and unbroken finish grade to the required depth. Apply a starter fertilizer (10-20-10) at a rate of 20 lbs. per 1000 square feet and lime at a rate of 40 lbs. per 1000 square feet. Once spread, the fertilizer and lime shall be thoroughly incorporated into the loam. The loam shall be rolled, and depression shall be top dressed and raked to create a smooth surface.

11. Seeding: Seeding shall take place between March 15 and May 31 or August 15 and October 15 only. Seed shall be pure, live, fresh seed from commercial sources meeting and labeled in accordance with State and Federal rules and regulations. The seed mixture shall be:

Proportion by Type	Weight	Pur.	Germ.
Palmer Perennial Ryegrass	20.0%	99%	90%
Ranger Perennial Ryegrass	20.0%	99%	90%
Baron Kentucky Bluegrass	30.0%	95%	85%
Merion Kentucky Bluegrass	30.0%	95%	85%
Inert Materials 2.5% (maximum)			

Seeded areas shall, at a minimum, include all areas of the site that have been disturbed or are barren unless otherwise noted on the plans. Seed shall be applied at a rate of 7 lbs. per 1000 square feet.

12. Protection of Existing Plantings: Maximum effort should be made to save tree or other plant specimens which are large for their species, rare to the area, or of special horticultural or landscape value. Contact owner/landscape architect before removing any specimen of this type unless otherwise noted on the plans. No material or temporary soil deposits shall be placed within the drip line of shrubs or trees designated on the landscape plan to be retained. Protective barriers are to be installed around each plant and/or group of plants that are to remain on the site. Barriers shall not be supported by the plants they are protecting, but shall be self supporting. They shall be of minimum of four feet (4') high and constructed of a durable material, such as snow or silt fence, that will last until construction is completed.

13. Pruning: The contractor shall carefully prune branches in the way of construction by using only approved methods and tools. The use of axes for trimming or spurs for climbing will not be permitted.

14. Existing Utilities: In accordance with Dig-Safe law (1-800-225-4977), the contractor shall contact all applicable utility companies and verify utility line locations. The contractor shall be solely responsible for any/all utility damage. Record locations of Dig-Safe utility line markings on project record documents.

15. Disturbed Areas: Any areas disturbed during the course of construction are to be restored to original (or better) condition by contractor before completion of the project, and are subject to approval by landscape architect and owner. All grass areas disturbed during construction shall be york raked to remove stones and loamed and seeded as per specifications.

16. Drainage Systems: Contractor is responsible for general clean-out of all catch basins, manholes, and/or other drainage features on the site which have accumulated sediment as a result of construction activities.

17. Cleaning: Contractor is responsible for keeping site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plan.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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W. Joseph Carey

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DAVID M. D'AMICO
6749
REGISTERED PROFESSIONAL ENGINEER CIVIL
9/24/08

JOB SPECIFIC NOTES:
GENERAL CONSTRUCTION

1. Construction within the stream channel shall occur during a period of low flow in the dry season between July 1 and October 31. The estimated time to complete construction of the stream crossing is 2-weeks.

2. All construction shall be performed in the dry season. The contractor shall provide, operate and maintain all pumps, drains, wet points, screens, or other facilities necessary to control, collect and dispose of all surface and subsurface water encountered in the performance of the work. A dewatering basin as shown on the details shall be used if dewatering is necessary. The dewatering basin shall be placed within the Limit of Disturbance shown on these plans on the existing path. Dewatering basins shall be contracted in accordance with the R.I. Soil Erosion and Sedimentation Control Manual.

3. The contractor is responsible for complying with OSHA requirements including excavation and shoring activities.

4. Existing Utilities: In accordance with Dig-Safe law (1-800-225-4977), the contractor shall contact all applicable utility companies and verify utility line locations. The contractor shall be solely responsible for any/all utility damage. Record locations of Dig-Safe utility line markings on project record documents.

5. Protection of Existing Plantings: Maximum effort should be made to save tree or other plant specimens which are large for their species, rare to the area, or of special horticultural or landscape value. Contact owner/landscape architect before removing any specimen of this type unless otherwise noted on the plans.

6. Protective barriers are to be installed around each plant and/or group of plants that are to remain on the site. Barriers shall not be supported by the plants they are protecting, but shall be self supporting. They shall be of minimum of four feet (4') high and constructed of a durable material, such as snow or silt fence, that will last until construction is completed.

7. Pruning: The contractor shall carefully prune branches in the way of construction by using only approved methods and tools. The use of axes for trimming or spurs for climbing will not be permitted.

8. Cleaning: Contractor is responsible for keeping site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location in accordance with state and local rules and regulations, unless otherwise indicated on the plan.

SEQUENCE OF CONSTRUCTION

1. The perimeter erosion control (hay bale and/or silt fence) shall be installed prior to all construction activities.
2. Stake limits of clearing and grubbing operations for field review and approval by the project engineer and/or Landscape Architect prior to start of construction
3. Install tree protection devices prior to start of construction operations.
4. Install the sand bag erosion check to access bridge abutments 2 and 3 where indicated on the plans.
5. Install temporary Bridge to access area 3, so that bridge abuttment work can be done on both side before installation of final bridge.
6. Construct bridge abutment 3 then construct abutment 2.
7. Bring the area between abutments 2 and 3 to final grade then seed, loam and mulch the disturbed area adjacent to the abutment.
8. Install the sand bag erosion checks for abutments 1 and 4 then construct the abutments. Bring the abutment area to final grade then seed, loam and mulch the disturbed area adjacent to the abutments.
9. Install the bridges, bring the remaining areas of the walking path to final grade then seed, loam and mulch the disturbed area.
10. Once the vegetation has become well established, remove all sediment controls: hay bales, silt fence, sand bag erosion check.

SOIL EROSION AND SEDIMENTATION CONTOL NOTES:

1) The haybale/ silt fence line illustrated on these plans, to be staked in the filed prior to construction, shall serve as the strict limit of disturbance for the project within or adjacent to regulated freshwater wetland areas. No alterations, including vegetative clearing or surface disturbance, shall occur beyond this haybale/ silt fence line.

2) The limits of clearing, grading, and disturbance shall be kept to a minimum within the proposed area of construction. All areas outside of these limits, as depicted on the project site plans, shall be totally undisturbed, to remain in a completely natural condition.

3) It shall be the responsibility of the contractor to maintain all soil erosion and sediment controls on the project site for the entire duration of the construction period. The contractor shall follow the direction of the resident engineer with regard to installation, maintenance, and repair of all soil erosion and sedimentation controls (SESC) on the project site. Temporary soil erosion and sedimentation on controls (hay bales, silt fence, etc.) shall be maintained until all exposed soils are satisfactorily stabilized.

4) SESC measures shall be inspected at least once every seven calendar days and within twenty four hours after an event which generates 0.25 inches of rain in a twenty four hour period. Maintenance shall include cleanout of accumulated sediment behind the bales if 1/2 the original height of the bales/fence barrier becomes filled with sediment. Any sediment deposits remaining in place after the silt fence has been removed should be dressed to conform to the existing grade, prepared and seeded.

A) All referenced soil erosion and sedimentation controls including materials used, application rates, and the installation procedures shall be performed per the "Rhode Island Ercsion and Sedimentation Handbook", dated 1993.

B) The contractor shall read, become familiar with, and adhere to all of the provisions, conditions, and stipulations stated in the environmental permits issued for this project from the Department of Environmental Management and US Army Corps of Engineers. All costs associated with complying with these conditions shall be considered incidental to the construction and included with the cost for the associated bid item.

C) No undisturbed areas will be cleared of existing vegetation after October 15 of any calendar year.

D) All disturbed slopes either newly created or currently exposed shall be seeded, protected and maintained by the contractor. The contractor shall regularly check all seeded areas to ensure that a good stand is maintained.

E) The toe of any fill slope is to remain at least one foot inside of all erosion controls. Under no circumstance shall the contractor cover any portion of the erosion controls with fill material. Any fill material which is placed on any erosion controls by the contractor, shall be immediately removed by the contractor, and any necessary repairs to the erosion controls accomplished, at no cost to the Town of Glocester.

5) Stockpiles of topsoil shall not be located near waterways. They shall have side slopes of no greater than 2:1 and shall be temporarily seeded and/or stabilized per contract specifications.

RECEIVED SEP 26 2008 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

REGISTERED ... LANDSCAPE ARCHITECT No. 130

Not Issued For Construction

Revisions:
PERMITTING: SEPTEMBER, 2008

Job No: P-920
Dwg No: L.1
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

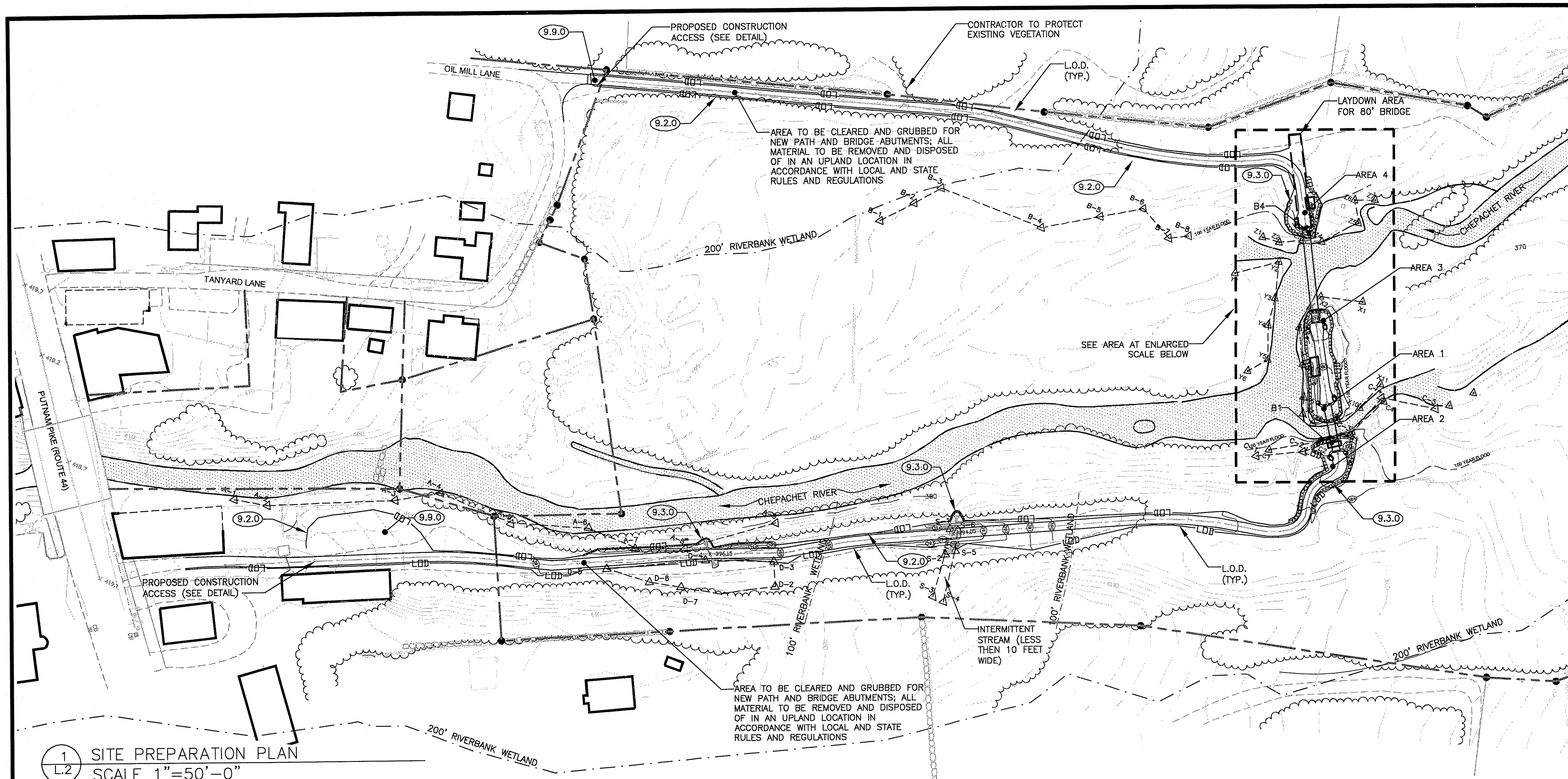
Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glarl@glala.com

CDE
CASALI & D'AMICO ENGINEERING, INC.

DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS

GENERAL PLAN
SYMBOLS & LEGENDS
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

Permitting Documents



1 L.2 SITE PREPARATION PLAN
SCALE 1"=50'-0"

(9.2.0) SEE DETAIL 1 L.5 FOR MORE INFORMATION
(9.3.0) SEE DETAIL 2 L.5 FOR MORE INFORMATION
(9.9.0) SEE DETAIL 3 L.5 FOR MORE INFORMATION

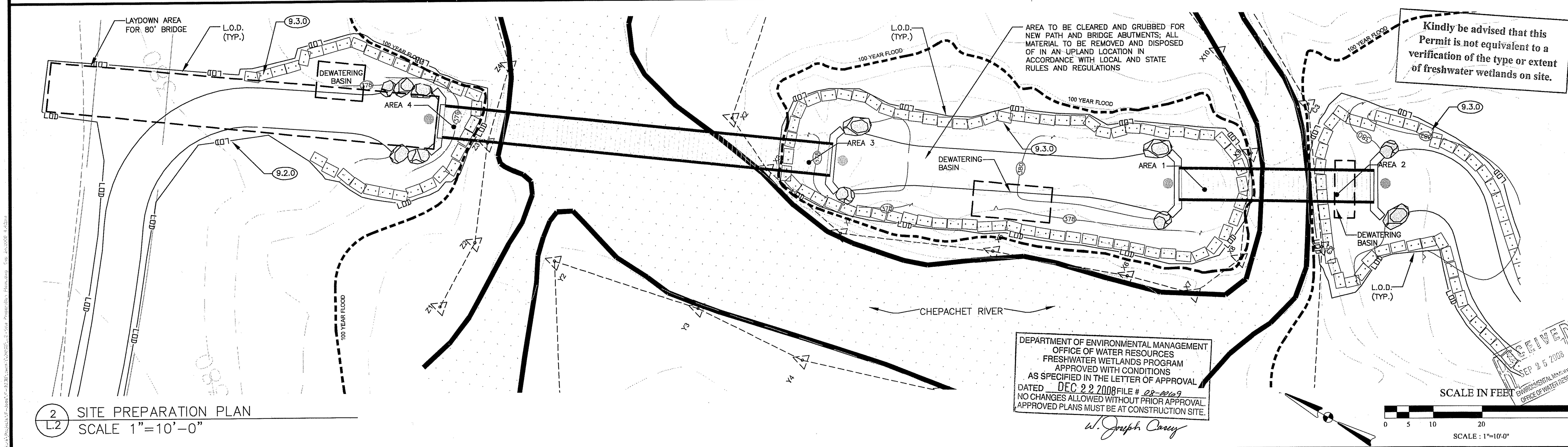
LEGEND:
BORING LOCATIONS

NOTE: SILT FENCE FOR EROSION CONTROL R.I. STD. 9.2.0 ONLY TO BE LOCATED ALONG PATH AND AROUND CONSTRUCTION ACCESS AREAS AS PLANS INDICATE.

NOTE: SILT FENCE HAYBALE COMBINATION R.I. STD. 9.3.0 TO FOLLOW LIMIT OF DISTURBANCE LINE SURROUNDING BRIDGE ABUTMENT LOCATIONS AS PLANS INDICATE.

DAVID ... AMICO
6749
REGISTERED PROFESSIONAL ENGINEER CIVIL
9/24/08

SCALE IN FEET
0 25 50 100 200
SCALE : 1"=50'-0"



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2 L.2 SITE PREPARATION PLAN
SCALE 1"=10'-0"

SCALE IN FEET
0 5 10 20 40
SCALE : 1"=10'-0"

REGISTERED DONALD S. LEIGHTON No. 135 LANDSCAPE ARCHITECT

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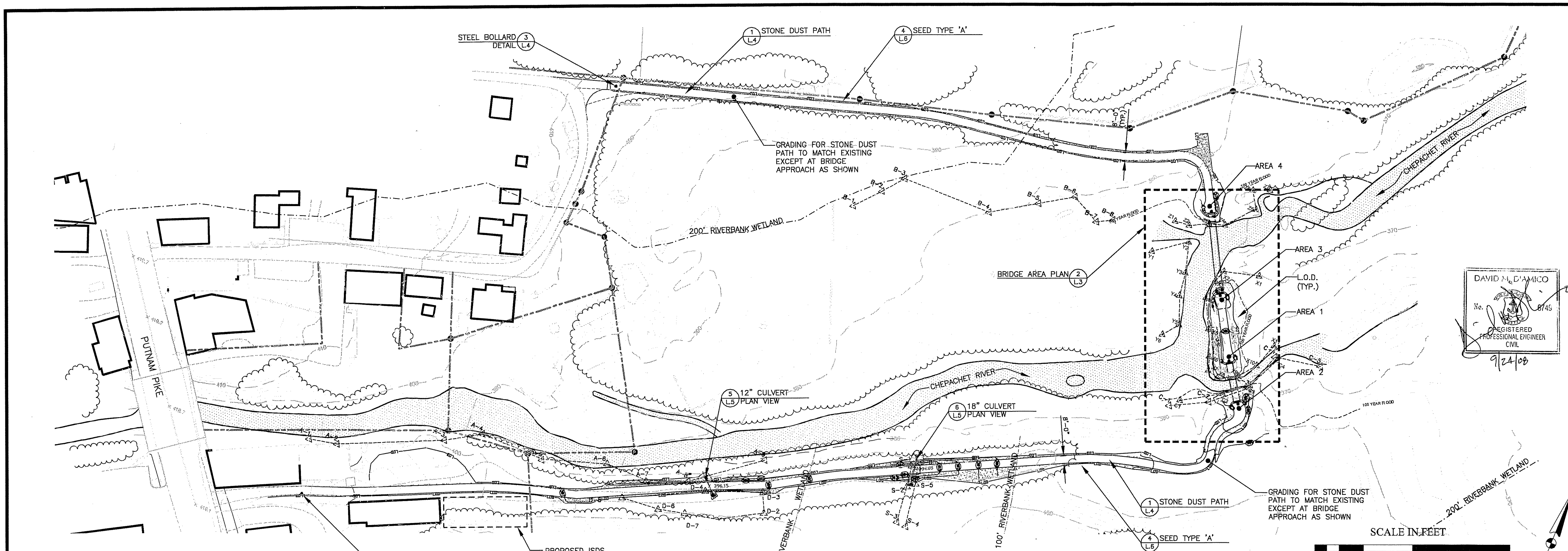
DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS

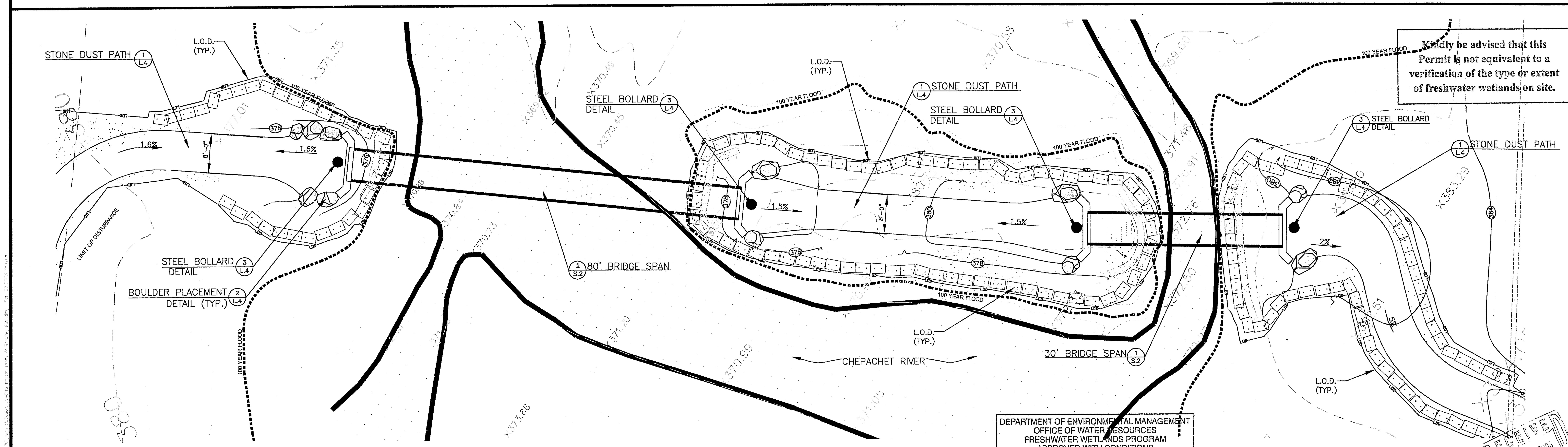
SITE PREPARATION PLANS
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

Permitting Documents

Sheet 3 of 10
L.2



1 L.3 SITE IMPROVEMENT PLAN
SCALE: 1"=50'-0"



2 L.3 BRIDGE AREA PLAN
SCALE: 1"=10'-0"

Not Issued For Construction

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Job No: P-920
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Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE

CDE

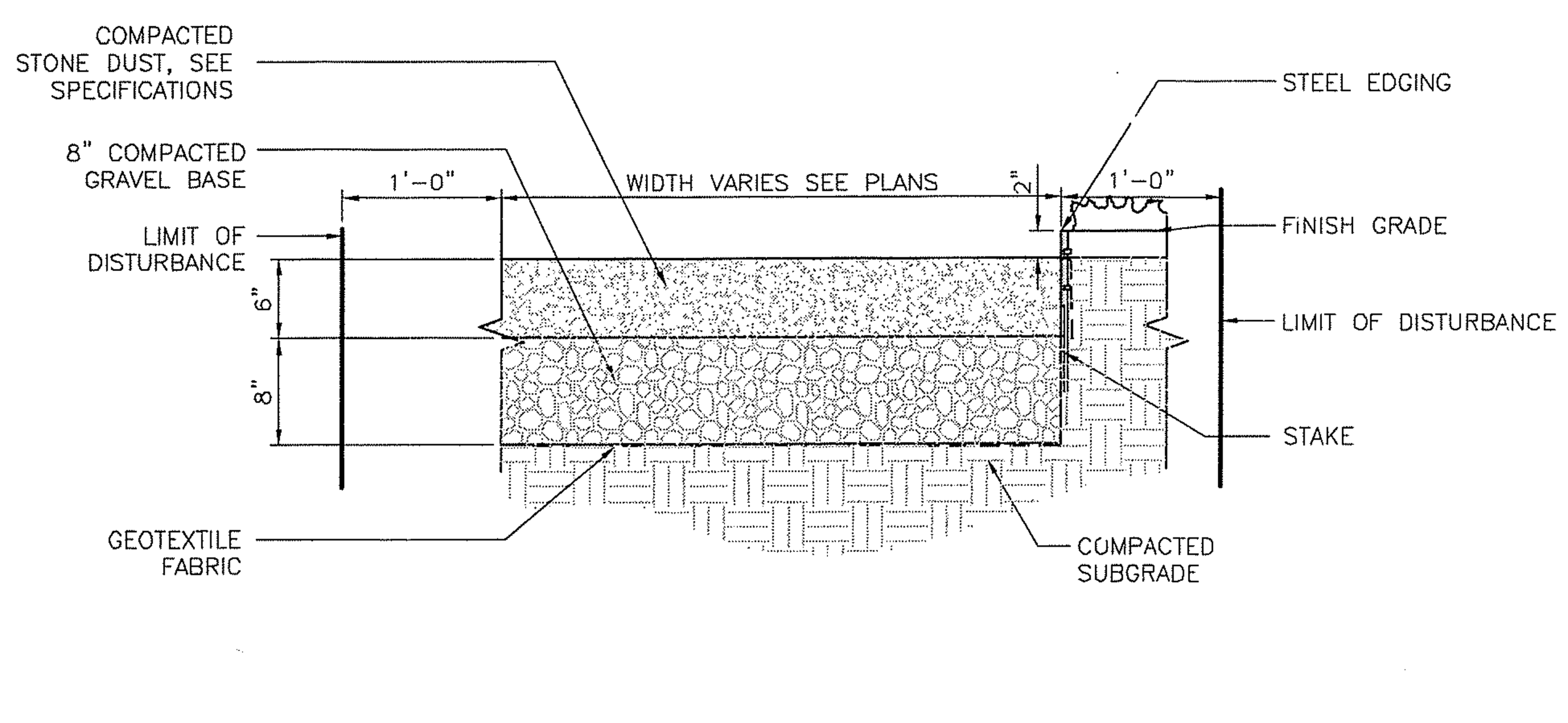
DAVEY ASSOCIATES INC

SITE IMPROVEMENT AND GRADING PLANS

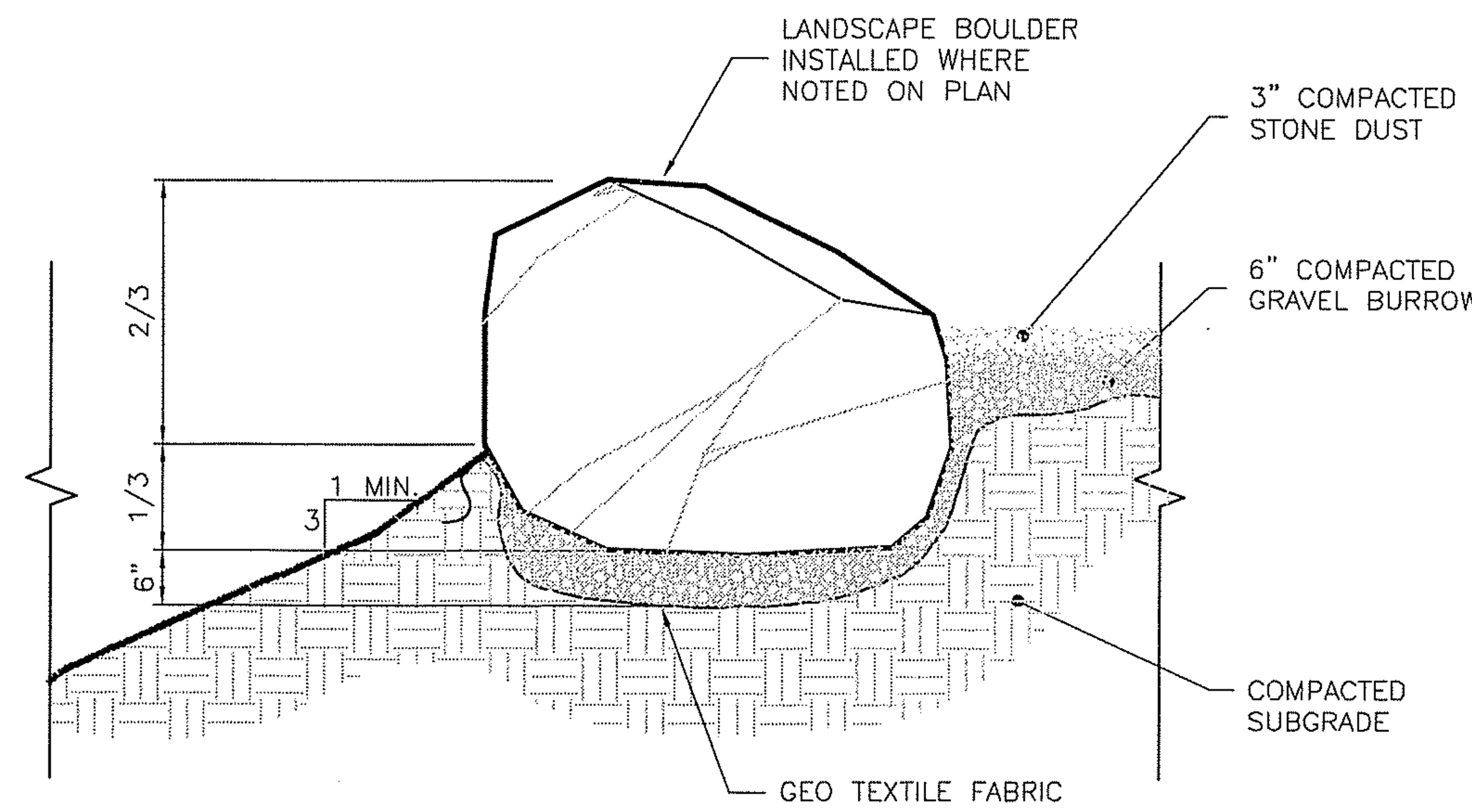
Chepachet River Park Design

Village of Chepachet
Town of Glocester, Rhode Island

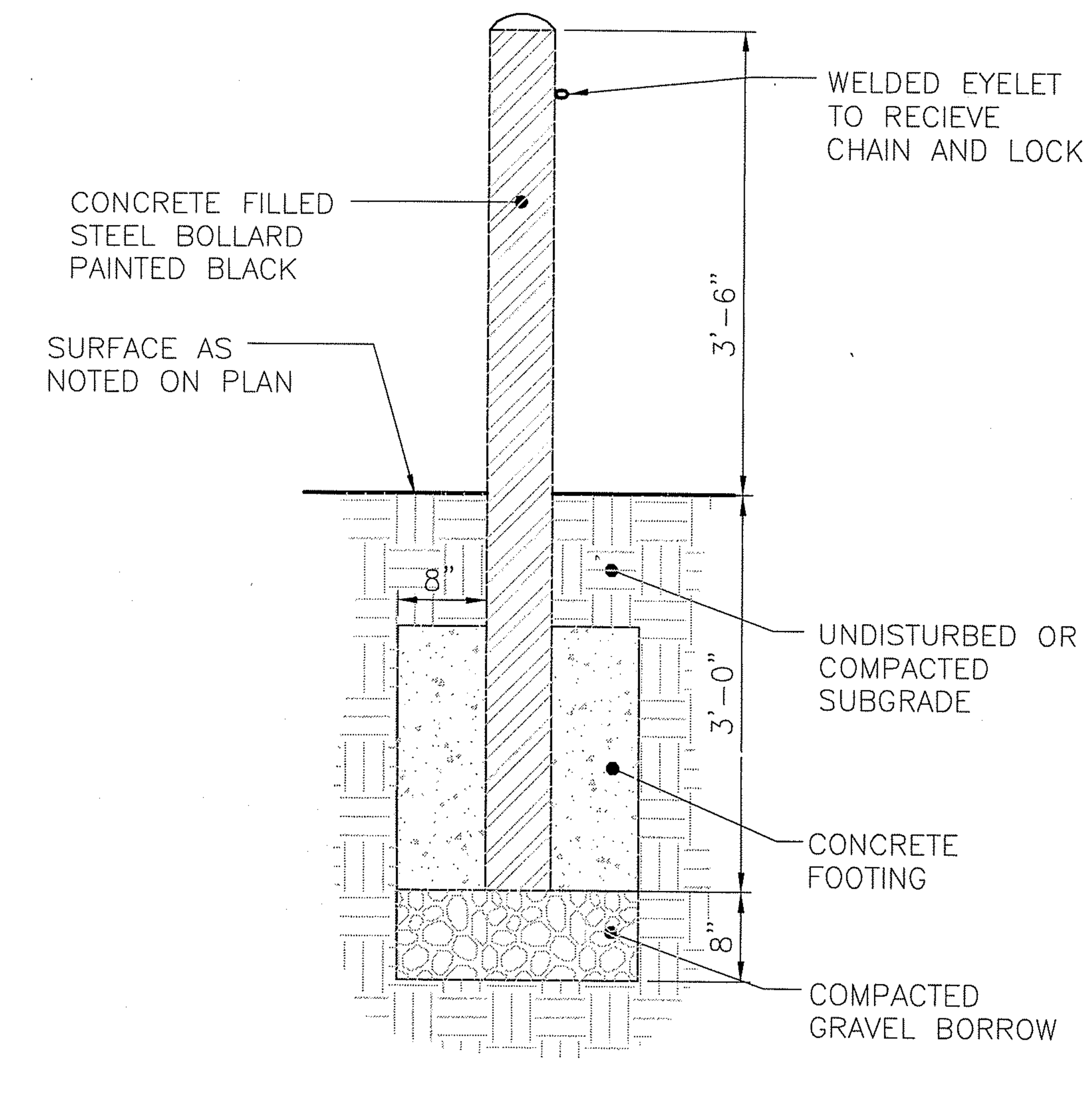
Construction Documents



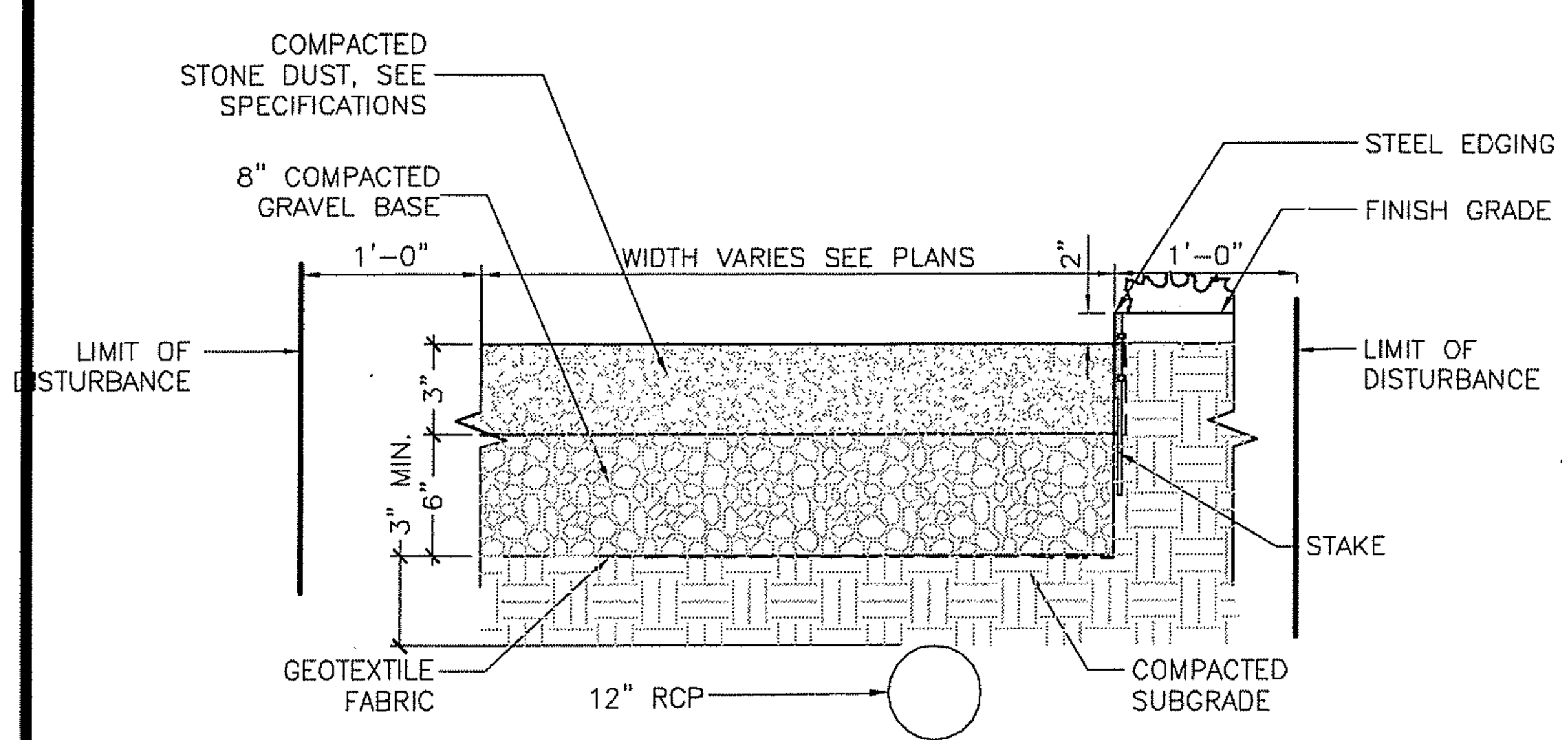
1 L.4 STONE DUST PATH DETAIL
NOT TO SCALE



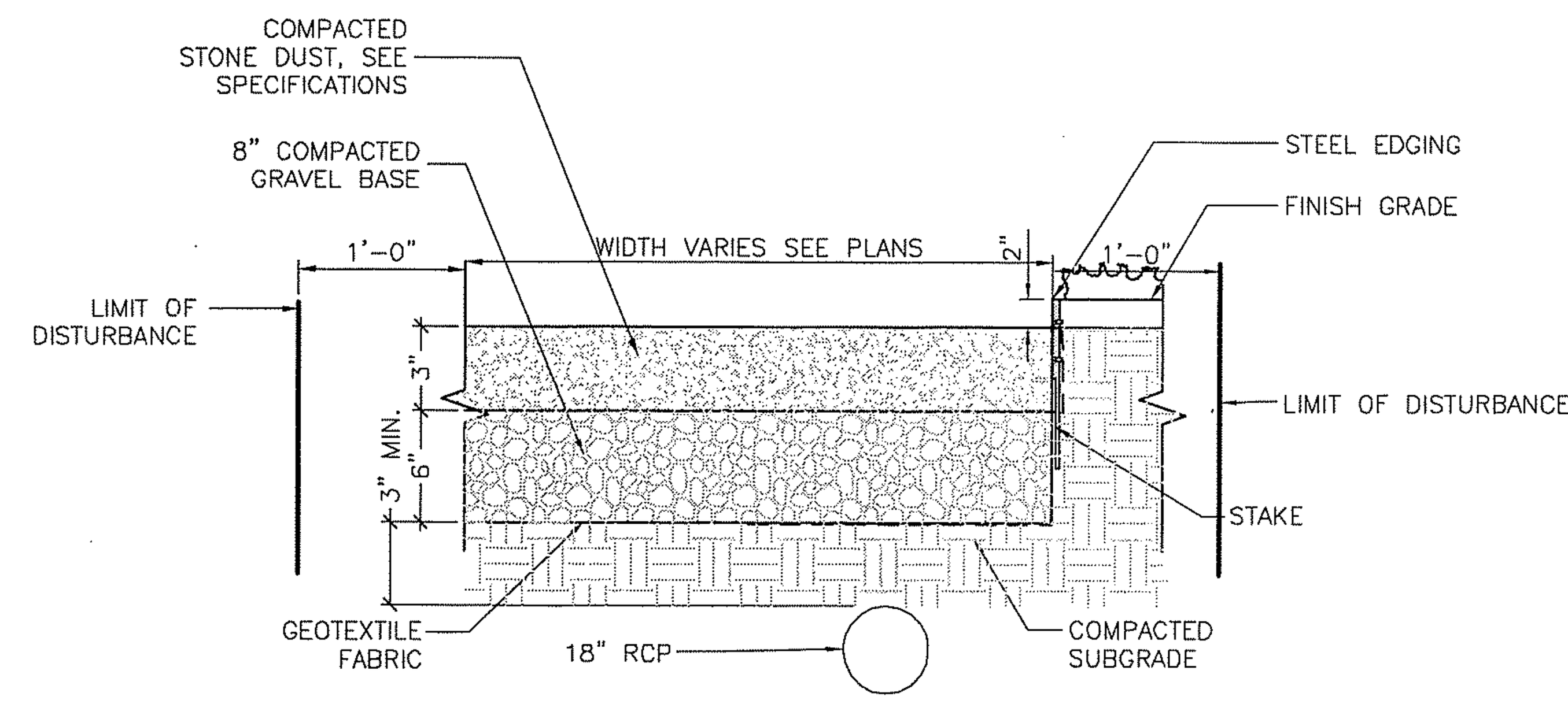
2 L.4 BOULDER PLACEMENT DETAIL
SCALE: 1"=1-0"



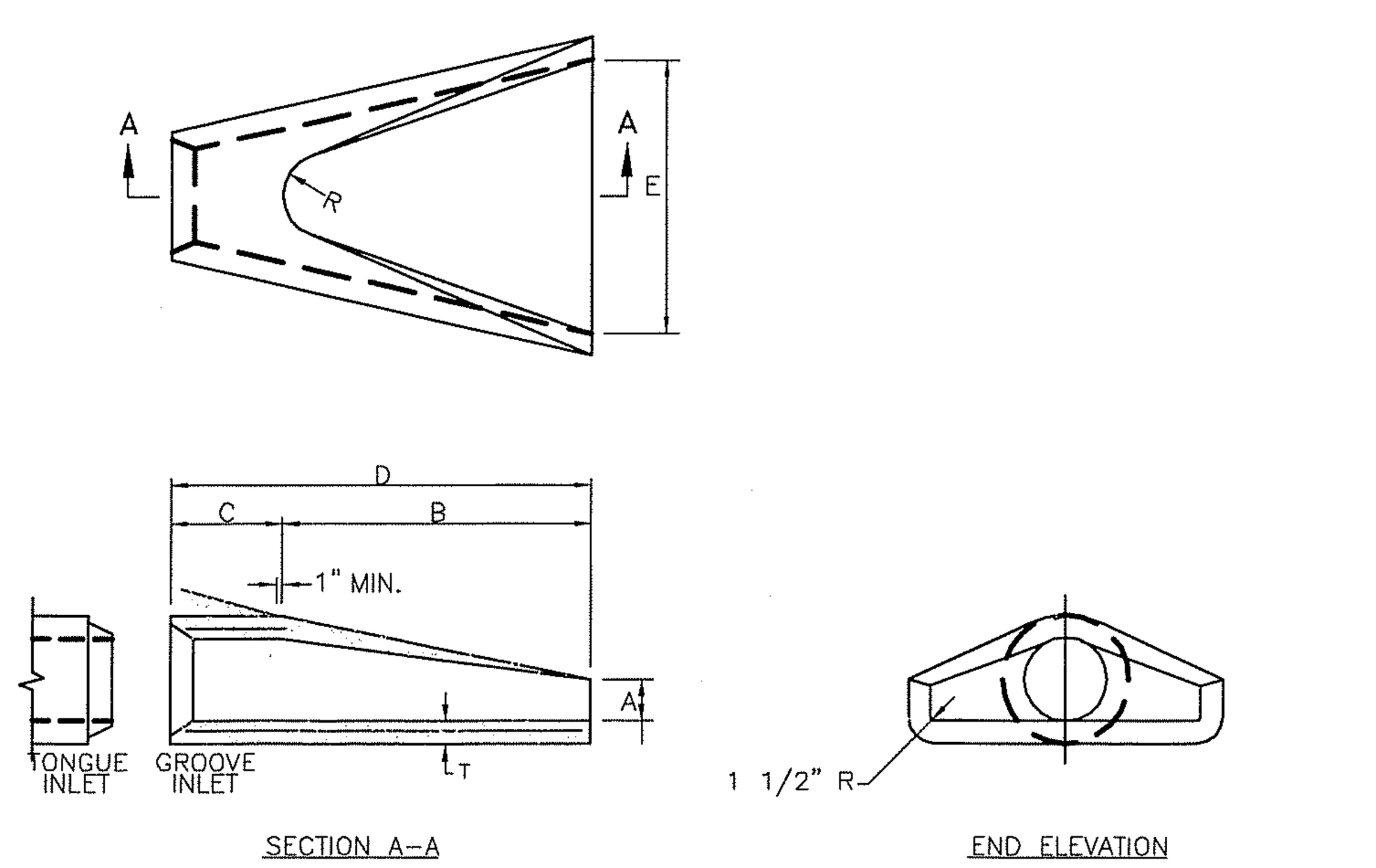
3 L.4 STEEL BOLLARD DETAIL
SCALE: 1"=1'-0"



4 L.4 12" RCP, CLASS V CULVERT CROSS SECTION
NOT TO SCALE



5 L.4 18" RCP, CLASS V CULVERT CROSS SECTION
NOT TO SCALE



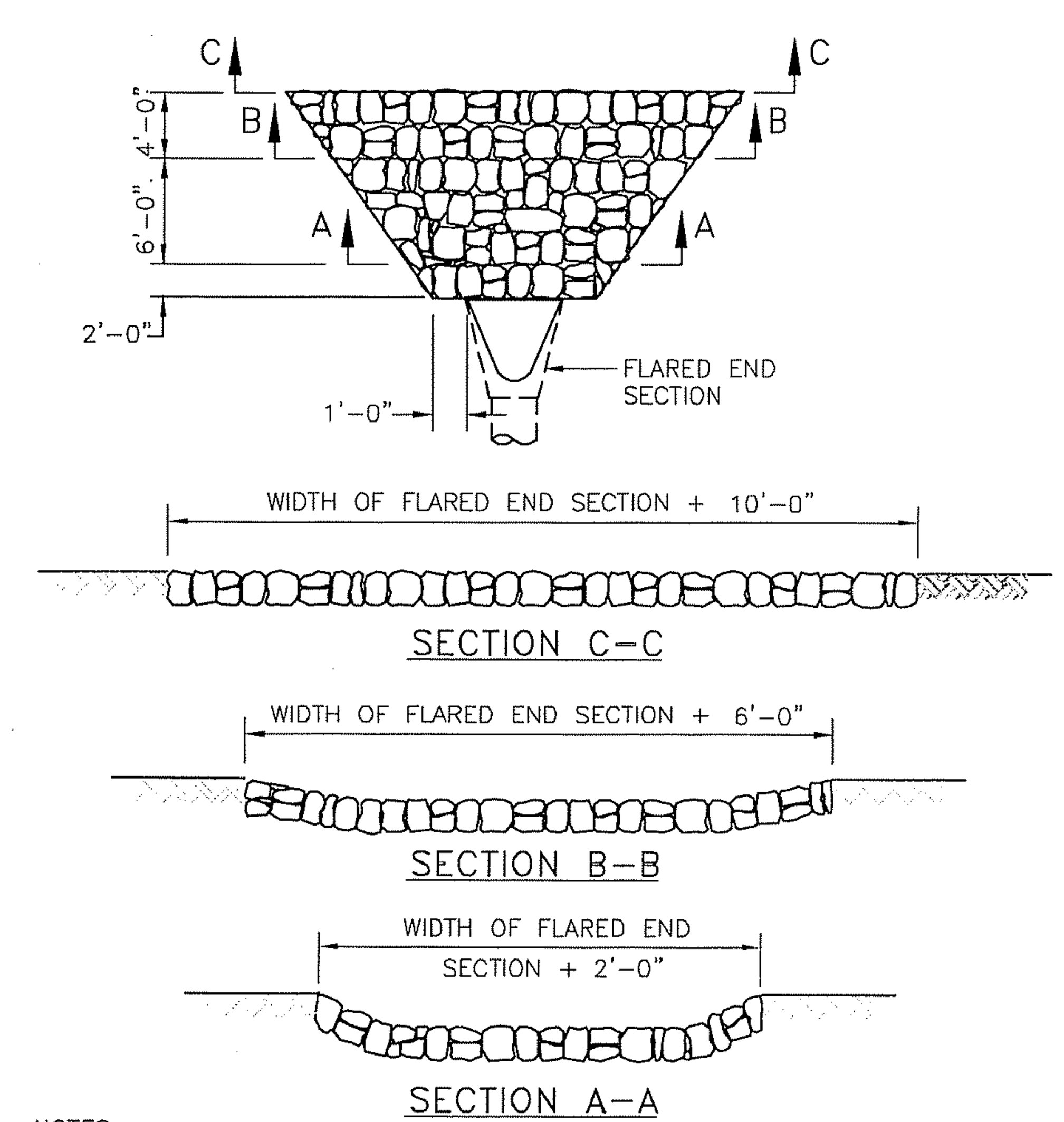
DIMENSIONS								REINFORCEMENT
DIA.	A	B	C	D	E	R	T	ONE LAYER REINFORCEMENT IN CENTER OF WALL MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	2"	0.048
1'-3"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	2 1/4"	0.054
1'-6"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	2 1/2"	0.060
2'-0"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072
2'-6"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	1'-8"	4"	0.096
3'-6"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	0.120
4'-6"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	2'-0"	5 1/2"	0.132
5'-0"	2'-6"	5'-0"	3'-3"	8'-3"	8'-0"	2'-0"	6"	0.144

NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.
NOT TO SCALE

PRECAST CONCRETE FLARED END SECTION

R.I. STANDARD 2.3.0

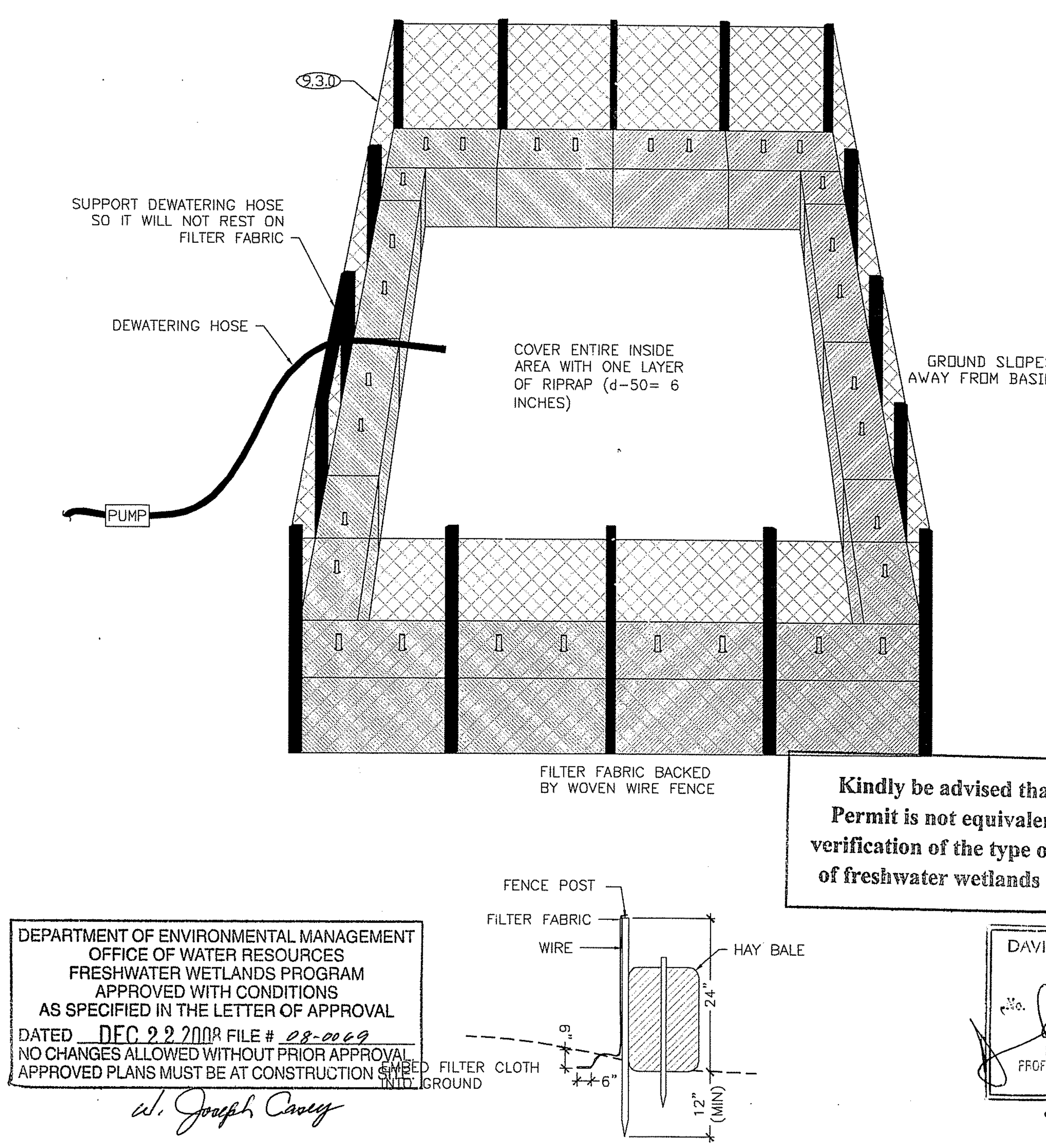
6 L.4 PRECAST CONCRETE FLARED END SECTION
NOT TO SCALE



NOTES:
1. CLASS OF RIP-RAP AND BEDDING TO BE SPECIFIED IN CONTRACT DOCUMENTS.
2. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
3. UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

ROCK FILL RIP-RAP AT FLARED END SECTIONS
NOT TO SCALE

7 L.4 ROCK FILL RIP-RAP AT FLARED END SECTIONS
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 08-0069
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
W. Joseph Casey

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DAVID L. D'AMICO
No. 6745
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9/24/08

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SEP 25 2008
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

8 L.4 DEWATERING BASIN DETAIL
NOT TO SCALE

Not Issued For Construction

Revisions:
PERMITTING: SEPTEMBER, 2008

Job No: P-920
Dwg No: L.4
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

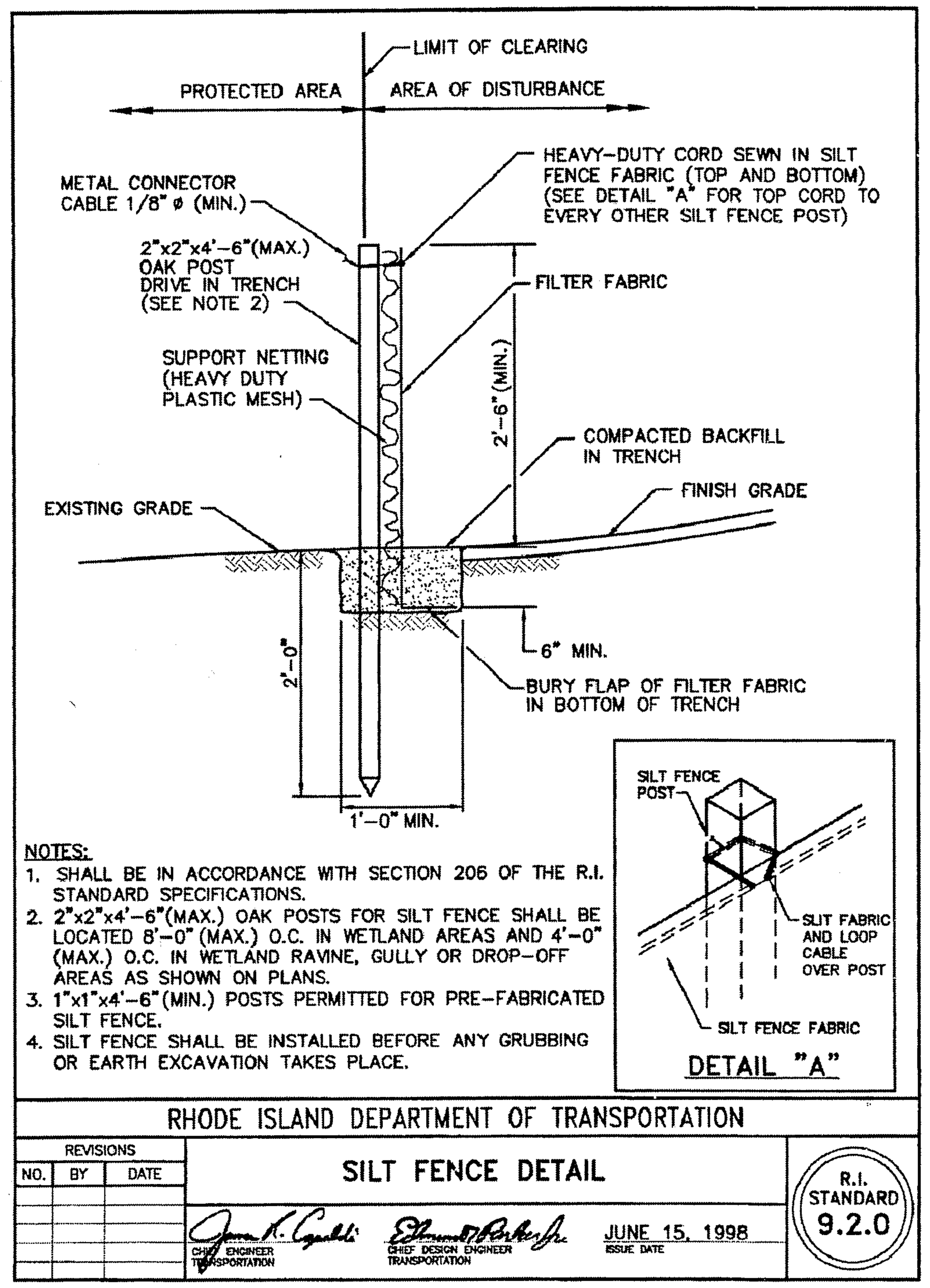
Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glan@glala.com

CDE
CASALI & D'AMICO ENGINEERING, INC.

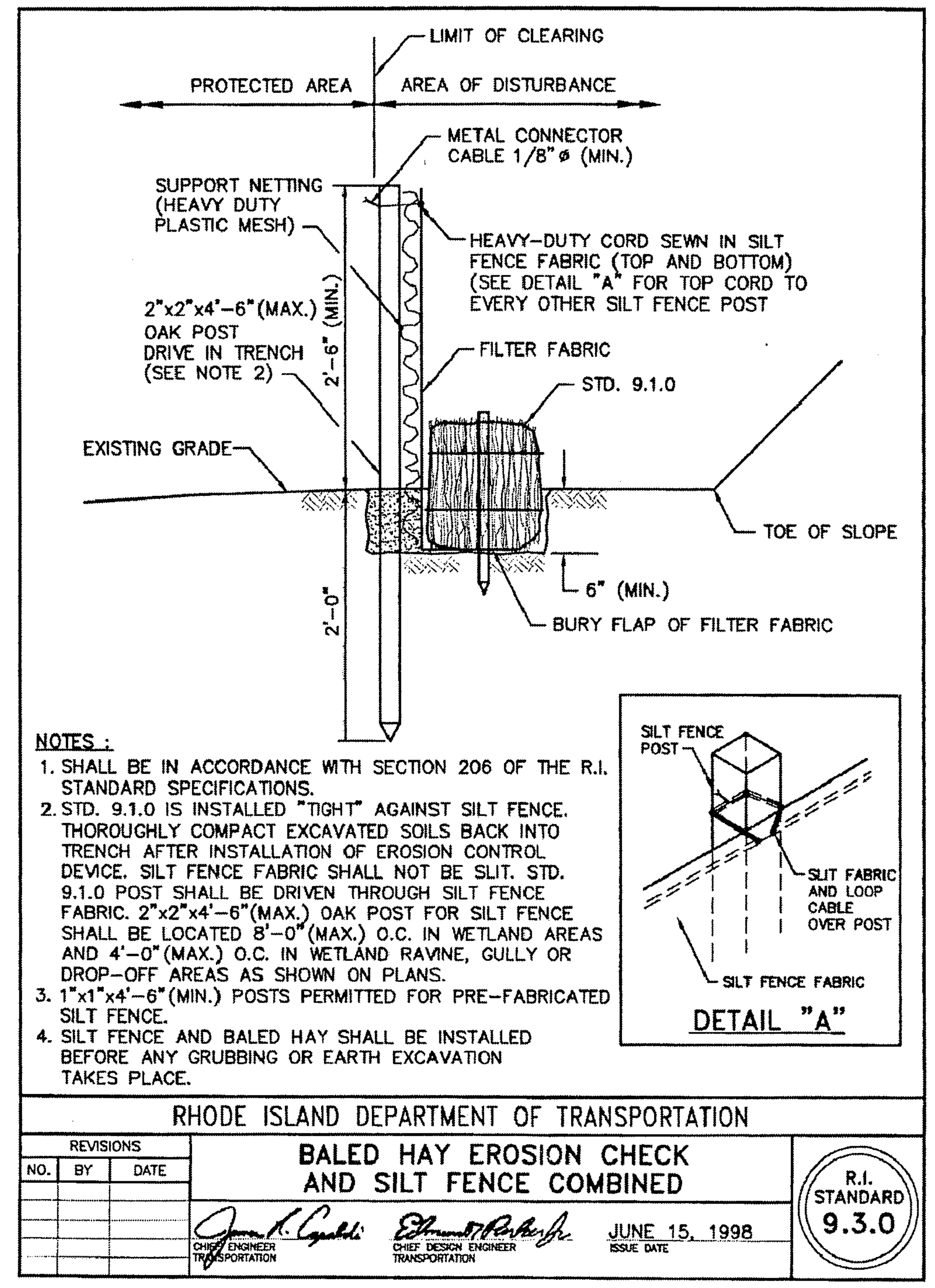
DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS

SITE DETAILS
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

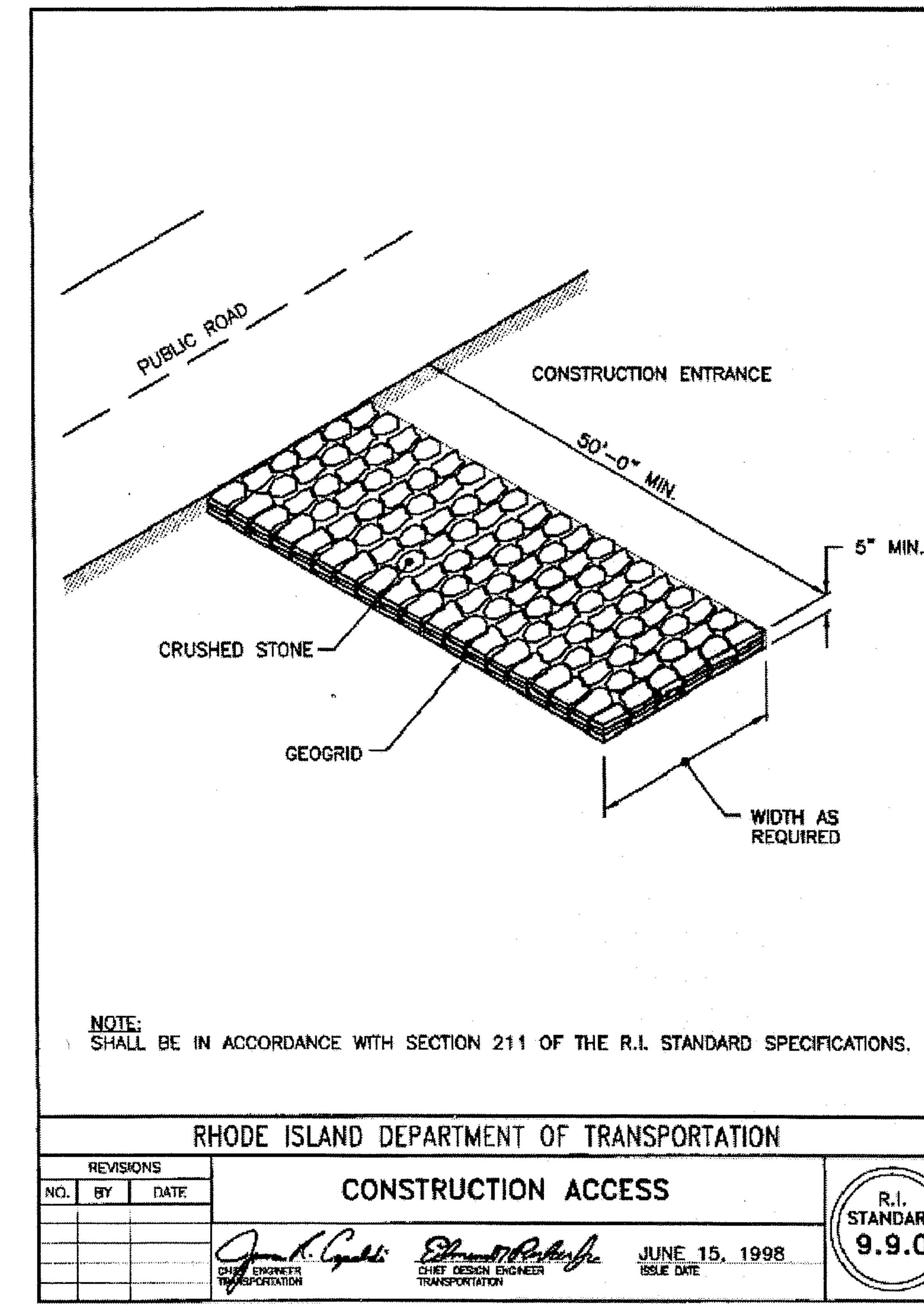
Permitting Documents


LIMIT OF CLEARING
PROTECTED AREA
AREA OF DISTURBANCE
METAL CONNECTOR CABLE 1/8" ø (MIN.)
HEAVY-DUTY CORD SEWN IN SILT FENCE FABRIC (TOP AND BOTTOM) (SEE DETAIL "A" FOR TOP CORD TO EVERY OTHER SILT FENCE POST)
2"x2"x4'-6"(MAX.) OAK POST DRIVE IN TRENCH (SEE NOTE 2)
FILTER FABRIC
SUPPORT NETTING (HEAVY DUTY PLASTIC MESH)
2'-6" (MIN.)
COMPACTED BACKFILL IN TRENCH
FINISH GRADE
EXISTING GRADE
6" MIN.
2'-0"
BURY FLAP OF FILTER FABRIC IN BOTTOM OF TRENCH
1'-0" MIN.
SILT FENCE POST
SILT FABRIC AND LOOP CABLE OVER POST
SILT FENCE FABRIC
DETAIL "A"
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
REVISIONS
NO. BY DATE
SILT FENCE DETAIL
CHIEF ENGINEER TRANSPORTATION
CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998
ISSUE DATE
R.I. STANDARD 9.2.0

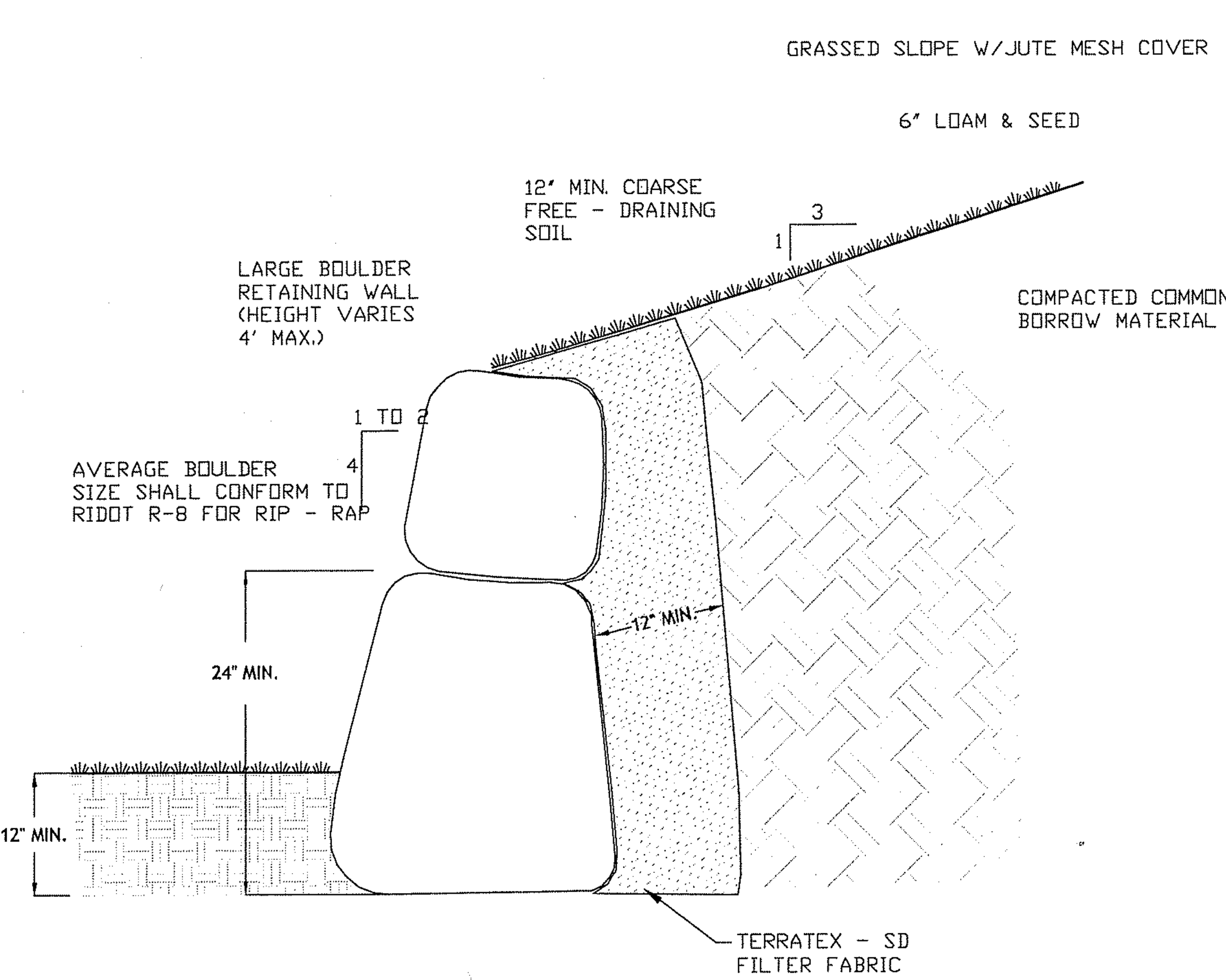
1/L.5 SILT FENCE DETAIL
NOT TO SCALE


LIMIT OF CLEARING
PROTECTED AREA
AREA OF DISTURBANCE
METAL CONNECTOR CABLE 1/8" ø (MIN.)
SUPPORT NETTING (HEAVY DUTY PLASTIC MESH)
HEAVY-DUTY CORD SEWN IN SILT FENCE FABRIC (TOP AND BOTTOM) (SEE DETAIL "A" FOR TOP CORD TO EVERY OTHER SILT FENCE POST
2"x2"x4'-6"(MAX.) OAK POST DRIVE IN TRENCH (SEE NOTE 2)
2'-6" (MIN.)
FILTER FABRIC
STD. 9.1.0
EXISTING GRADE
TOE OF SLOPE
6" (MIN.)
2'-0"
BURY FLAP OF FILTER FABRIC
SILT FENCE POST
SILT FABRIC AND LOOP CABLE OVER POST
SILT FENCE FABRIC
DETAIL "A"
NOTES :
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6"(MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0"(MAX.) O.C. IN WETLAND AREAS AND 4'-0"(MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
REVISIONS
NO. BY DATE
BALED HAY EROSION CHECK AND SILT FENCE COMBINED
CHIEF ENGINEER TRANSPORTATION
CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998
ISSUE DATE
R.I. STANDARD 9.3.0

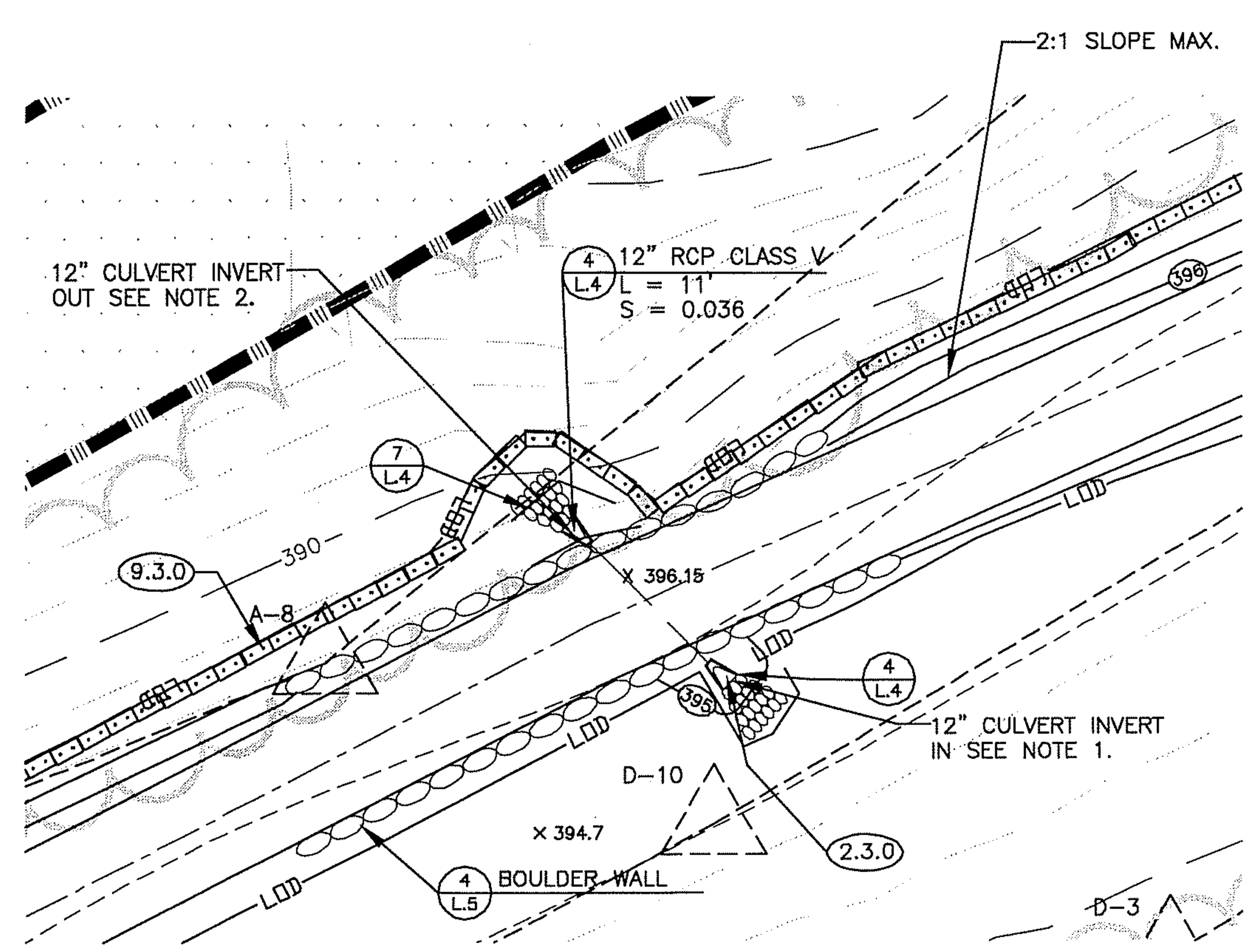
2/L.5 HAY AND SILT FENCE COMBINATION
NOT TO SCALE


PUBLIC ROAD
CONSTRUCTION ENTRANCE
50'-0" MIN.
5" MIN.
CRUSHED STONE
GEOGRID
WIDTH AS REQUIRED
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
REVISIONS
NO. BY DATE
CONSTRUCTION ACCESS
CHIEF ENGINEER TRANSPORTATION
CHIEF DESIGN ENGINEER TRANSPORTATION
JUNE 15, 1998
ISSUE DATE
R.I. STANDARD 9.9.0

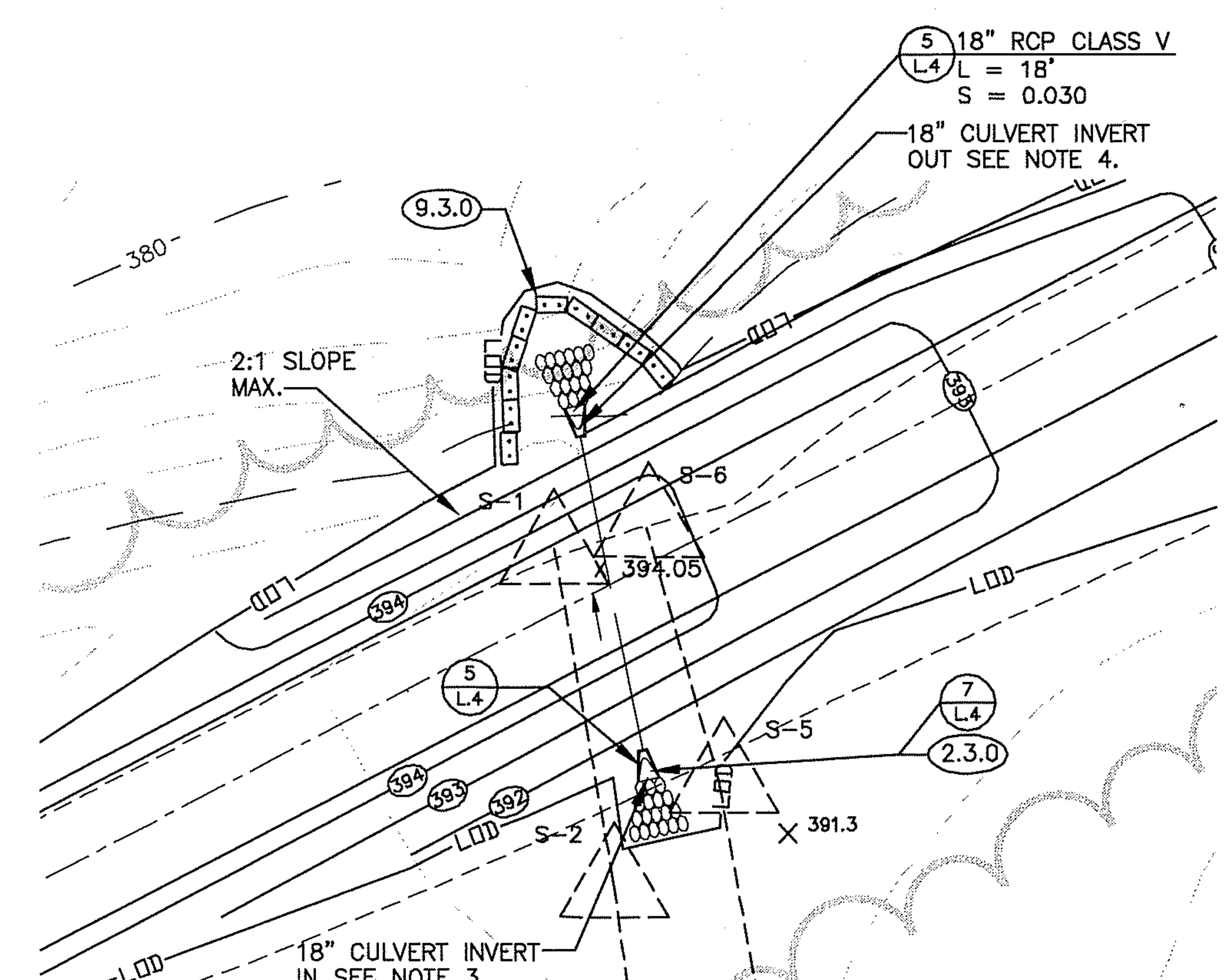
3/L.5 CONSTRUCTION ACCESS
NOT TO SCALE


GRASSED SLOPE W/JUTE MESH COVER
6' LOAM & SEED
12' MIN. COARSE FREE - DRAINING SOIL
3
1
LARGE BOULDER RETAINING WALL (HEIGHT VARIES 4' MAX.)
COMPACTED COMMON BORROW MATERIAL
1 TO 2
4
AVERAGE BOULDER SIZE SHALL CONFORM TO RIDOT R-8 FOR RIP - RAP
12' MIN.
24" MIN.
12' MIN.
TERRATEX - SD FILTER FABRIC OR EQUAL

4/L.5 BOULDER RETAINING WALL DETAIL
NOT TO SCALE



5/L.5 12" CULVERT PLAN
1"=10'



6/L.5 18" CULVERT PLAN
1"=10'

NOTE: 1. PROPOSED CONCRETE FLARED END SECTION (SEE DETAIL) INV. IN = 394.40.
2. PROPOSED CONCRETE FLARED END SECTION WITH RIP-RAP (SEE DETAIL) INV. OUT = 394.0
3. PROPOSED CONCRETE FLARED END SECTION (SEE DETAIL) INV. IN = 391.54
4. PROPOSED CONCRETE FLARED END SECTION WITH RIP RAP (SEE DETAIL) INV. OUT = 391.0

DAVID M. D'AMICO
No. 67..
REGISTERED PROFESSIONAL ENGINEER CIVIL
9/24/08

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Job No: P-920
Dwg No: L.5
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

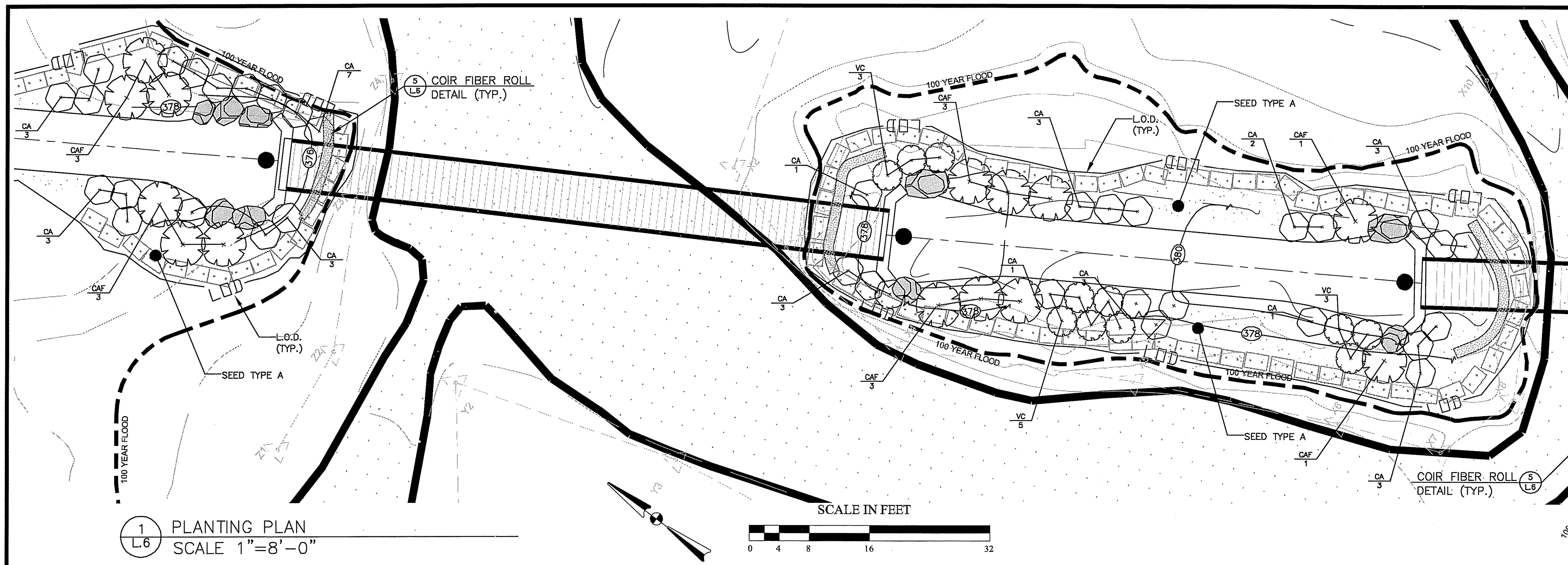
Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE

CDE

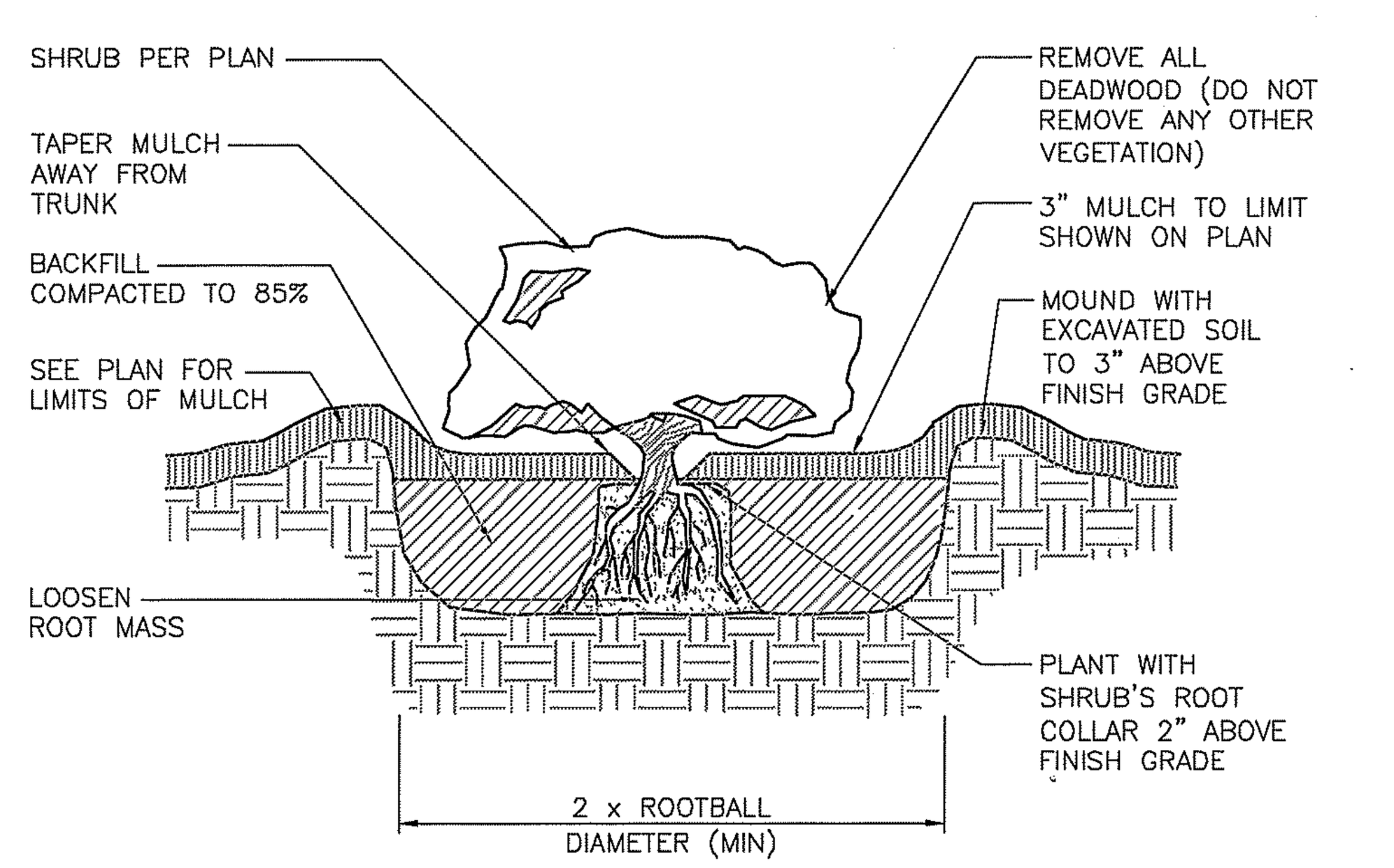
DAVEY ASSOCIATES INC

SITE DETAILS
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

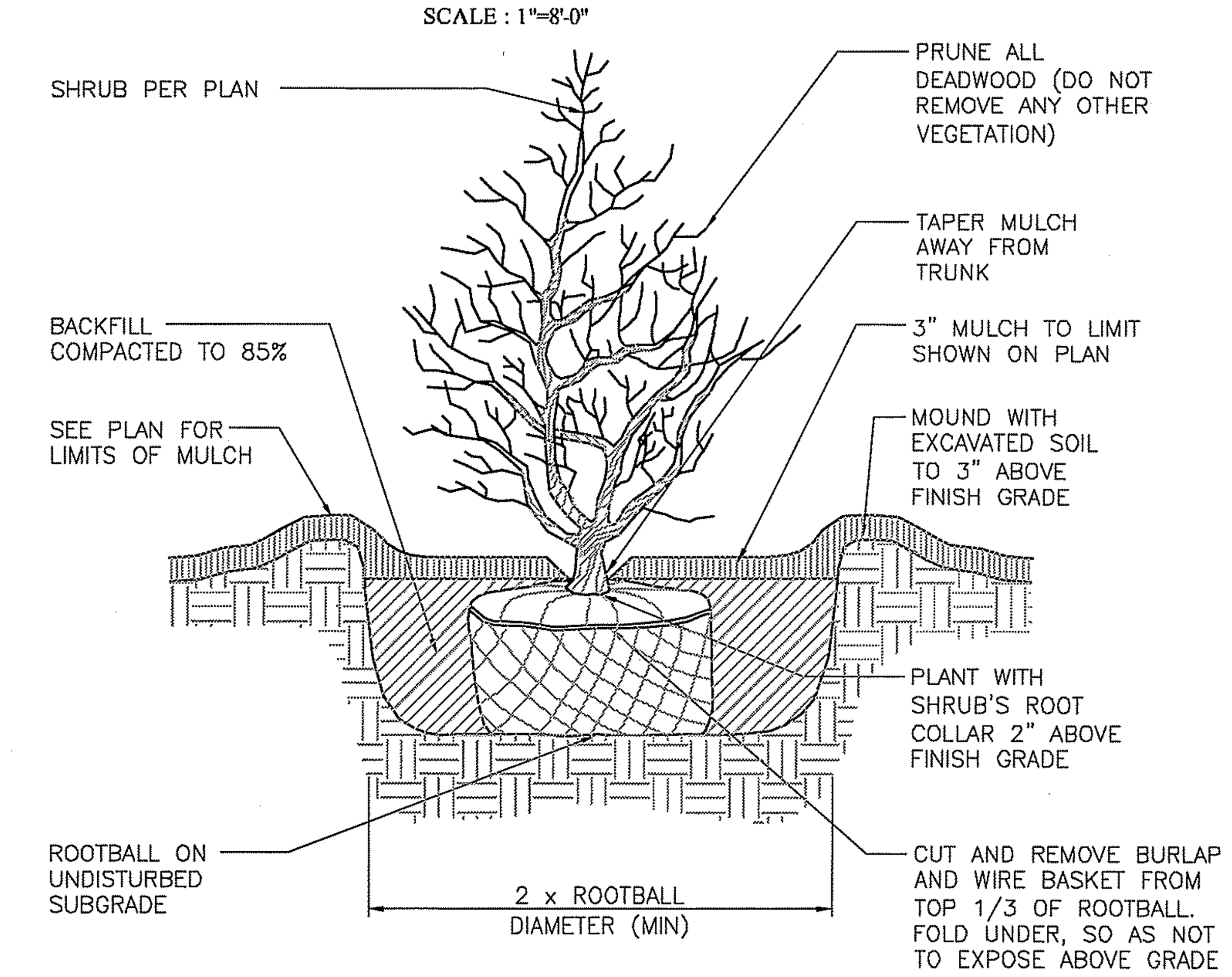
Permitting Documents



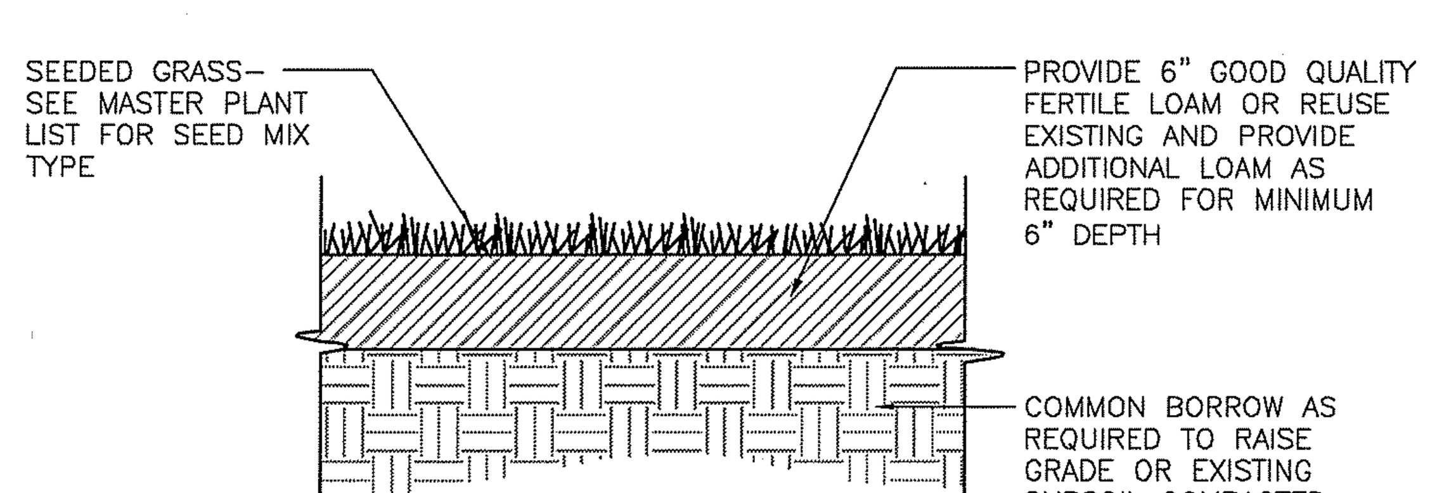
1/L.6 PLANTING PLAN
SCALE 1"=8'-0"



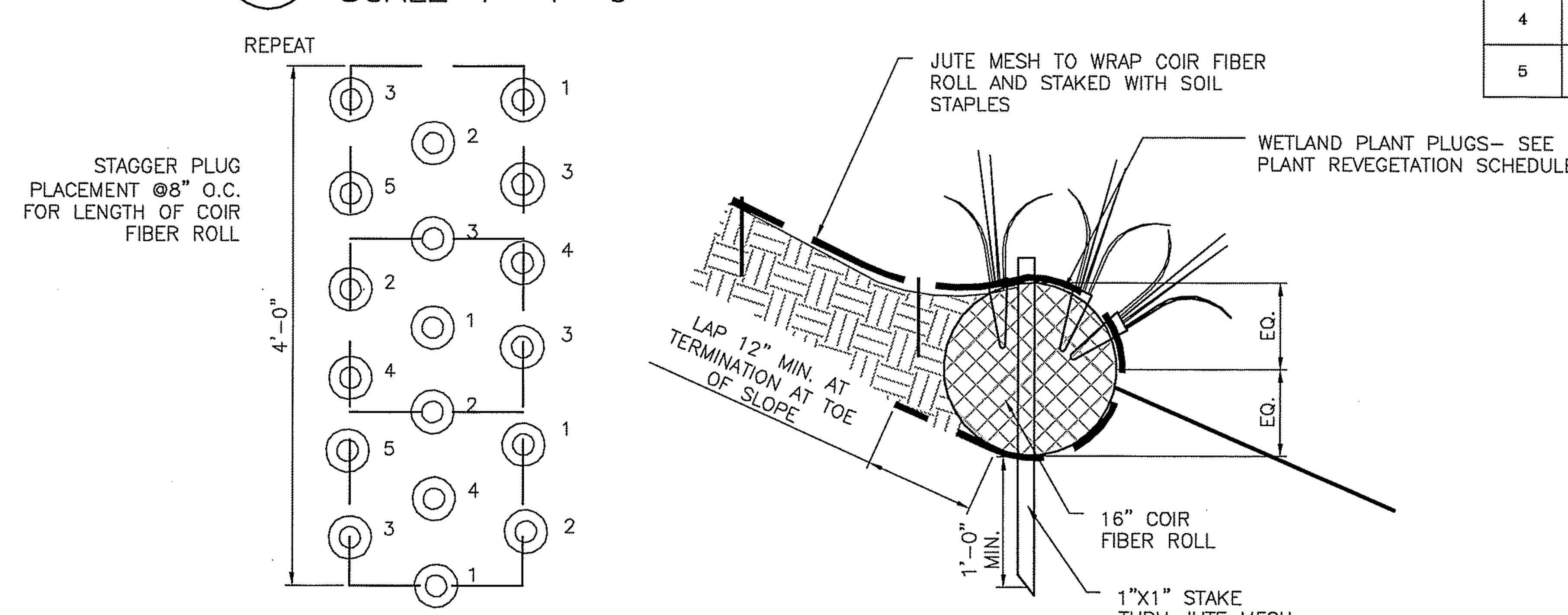
2/L.6 CONTAINER SHRUB PLANTING
SCALE 1"=1'-0"



3/L.6 CONTAINER SHRUB PLANTING
SCALE 1"=1'-0"



4/L.6 LOAM AND SEED: SEED TYP 'A'
SCALE 1"=1'-0"



5/L.6 COIR FIBER ROLL DETAIL
SCALE 1"=1'-0"

MASTER PLANT LIST				
Key	Botanical Name / *Common Name*	Qty.	Size	Notes
CAF	Clethera alnifolia / *Summersweet Clethera*	16	2.5'-3'	B&B
CA	Cornus amomum / *Silky Dogwood*	35	24"-30"	B&B
VC	Vaccinium corymbosum / *Highbush Blueberry*	17	2.5'-3'	B&B

SEED TYPE	NAME	Qty.	APPLICATION RATE
SEED TYPE A	NEW ENGLAND WETLAND SEED MIX	2.70 ACRES	18 LBS/ACRE

SPECIES:
Fox Sedge (Carex vulpinoidea), Bearded Sedge (Carex comosa), Lurid Sedge (Carex lurida), Soft Rush (juncus effusus), Grass-leaved Goldenrod (Euthamia graminifolia), Boneset (Eupatorium perfoliatum), Hop Sedge (Carex lupulina), Blue Vervain (Verbena hastata), Nodding Sedge (Carex gynandra), Green Bulrush (Scirpus cyperinus), Spotted Joe Pye weed (Eupatorium maculatum), Swamp Milkweed (Asclepias incarnata), Monkey Flower (Mimulus ringens), Soft-Stem Bulrush (Shoenoplectus tabernaemontani) (ex-S. validus), Hardstem Bulrush (Schoenoplectus acutus)(ex-Scirpus acutus), Nodding Bur Marigold (Bidens cernua), Flat-top Aster (Asterumbellatus).

COIR FIBER ROLL PLANTING				
Key	Botanical Name / *Common Name*	Qty.	Size	Notes
1	Carex Comosa / *Bearded Sedge*		Plug	Notes
2	Eupatorium maculatum 'Purpureum' / *Joe Pye Weed*		Plug	Notes
3	Iris versicolor / *Blue Flag*		Plug	Notes
4	Juncus canadensis / *Canadian Rush*		Plug	Notes
5	Lobelia cardinallis / *Cardinal Flower*		Plug	Notes

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W. Joseph Carey

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OFFICE OF WATER RESOURCES

Not Issued For Construction

Revisions:
PERMITTING: SEPTEMBER, 2008

Job No: P-920
Dwg No: L.P 6
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glarl@glala.com
DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS
CDE
CASALI & D'AMICO ENGINEERING, INC.

LANDSCAPE PLAN
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

Permitting Documents

SOIL BORING LOGS

APR-24-2007 TUE 02:16 AM New Hampshire Boring FAX NO. 6034370034 P. 02

Phone: (603) 437-1610 New Hampshire Boring, Inc. Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nhb@nhboring

Boring # B-4 Project: Chepachet River Park Project # 70757
Project Address: End Oil Mill Lane City: Chepachet State: RI Zip:
Date Start: 04-06-07 Date End: 04-06-07 Location: See Plan

Casing HW Sampler: Casing: 4" Size: Fall: Sampler: 1-3/8 in. I.D. 30 in.
Fall 30" Hammer: 300Lbs.

G R O U N D W A T E R O B S E R V A T I O N

Date: 04-06-07 Depth: 3' Casing: Stabilization Period

DP	S.J#	DEPTH	PEN	REC	BLOWS/6"	S/C	SAMPLE DESCRIPTION
-	S-1	0' – 2'	24"	7"	5-6-9-4		TOPSOIL
5'0"	S-2	5' – 7'	24"	7"	5-9-7-4		Dry, medium dense, brown, FINE TO COARSE SAND.
10'0"		10' – 12'	24"	0	2-3-2-1		No Recovery
15'0"	S-3	15' – 15'3"	3"	3"	100/3"		Wet, very dense, brown, GRANITE COBBLES.
20'0"	S-4	20' – 22'	24"	11"	47-51-61-60		Wet, very dense, brown, FINE TO COARSE SAND, some fine cobbles.
25'0"	S-5	25' – 27'	24"	9"	40-55-62-71	27'	Wet, very dense, brown, FINE TO COARSE SAND, some fine to coarse cobbles, trace inorganic silt.
							Bottom of Exploration = 27'
30'0"							

Driller: Matt Stone Helper: Bill Walsh Inspector: Andrew Rollins
Remarks:
S/#: Sample PEN: Penetration REC: Recovery S/C: Strata Change

APR-24-2007 TUE 02:18 AM New Hampshire Boring FAX NO. 6034370034 P. 03

Phone: (603) 437-1610 New Hampshire Boring, Inc. Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nhb@nhboring

Boring # B-1 (Pg 1 of 2) Project: Chepachet River Park Project # 70757
Project Address: End Oil Mill Lane City: Chepachet State: RI Zip:
Date Start: 04-06-07 Date End: 04-06-07 Location: See Plan

Casing HW Sampler: Casing: 4" Size: Fall: Sampler: 1-3/8 in. I.D. 30 in.
Fall 30" Hammer: 300Lbs.

G R O U N D W A T E R O B S E R V A T I O N

Date: 04-06-07 Depth: 3' Casing: Stabilization Period

DP	S.J#	DEPTH	PEN	REC	BLOWS/6"	S/C	SAMPLE DESCRIPTION
-	S-1	0' – 2'	24"	5"	3-5-4-5		TOPSOIL
5'0"	S-2	5' – 7'	24"	11"	7-30-19-34		Wet, very dense, brown, FINE TO COARSE SAND, trace fine gravel.
10'0"	S-3	10' – 12'	24"	7"	5-33-38-35		Wet, very dense, gray, FINE TO COARSE SAND, some gravel, trace fine gravel.
15'0"	S-4	15' – 17'	24"	12"	20-58-57-37		Wet, very dense, gray, FINE TO COARSE SAND, trace inorganic silt.
20'0"	S-5	20' – 22'	24"	18"	6-18-18-42		Wet, very dense, gray, FINE TO COARSE SAND trace inorganic silt.
25'0"	S-6	25' – 27'	24"	16"	18-28-28-18		Wet, very dense gray, FINE SAND, trace inorganic silt.
30'0"	S-7	30' – 32'	24"	18"	16-28-25-40		Wet, very dense gray, FINE SAND, trace inorganic silt.

Driller: Matt Stone Helper: Bill Walsh Inspector: Andrew Rollins
Remarks:
S/#: Sample PEN: Penetration REC: Recovery S/C: Strata Change

APR-24-2007 TUE 02:17 AM New Hampshire Boring FAX NO. 6034370034 P. 04

Phone: (603) 437-1610 New Hampshire Boring, Inc. Fax: (603) 437-0034
P.O. Box 165
Derry, NH 03038
E-Mail: nhb@nhboring

Boring # B-1 (Pg 2 of 2) Project: Chepachet River Park Project # 70757
Project Address: End Oil Mill Lane City: Chepachet State: RI Zip:
Date Start: 04-06-07 Date End: 04-06-07 Location: See Plan

Casing HW Sampler: Casing: 4" Size: Fall: Sampler: 1-3/8 in. I.D. 30 in.
Fall 30" Hammer: 300Lbs.

G R O U N D W A T E R O B S E R V A T I O N

Date: 04-06-07 Depth: 5' Casing: Stabilization Period

DP	S.J#	DEPTH	PEN	REC	BLOWS/6"	S/C	SAMPLE DESCRIPTION
35'0"	S-8	35' – 37'	24"	5"	36-67-66-74	37'	Wet, very dense, brown, FINE TO COARSE SAND, trace inorganic silt.
							Bottom of Exploration = 37'
40'0"							
45'0"							
50'0"							
55'0"							
60'0"							

Driller: Matt Stone Helper: Bill Walsh Inspector: Andrew Rollins
Remarks:
S/#: Sample PEN: Penetration REC: Recovery S/C: Strata Change

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W. Joseph Carey

RECEIVED SEP 25 ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

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Revisions:
PERMITTING: SEPTEMBER, 2008

Job No: P-920
Dwg No: S.1
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glari@glalo.com

CDE

DAVEY ASSOCIATES INC

BORING LOGS
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

Permitting Documents

INSTALLATION GUIDELINES FOR E.T. TECHTONICS BRIDGE

For bridges shipped in component parts or partially assembled, E.T. Techtonics, Inc. shall provide assembly drawings and a recommended assembly procedure for building the bridge. Temporary supports or rigging equipment, if needed, is the responsibility of the client. For bridges shipped assembled, E.T. Techtonics, Inc. shall advise the client of the actual lifting weights, attachment points and all necessary information to install the bridge

In Component Parts: This is our most common form of shipment. Components can be unloaded by as few as 2 workers, usually at the trail head or a nearby staging area. Because no equipment is required to unload, bridge arrival does not need to be coordinated with the bridge assembly. When you are ready for assembly, volunteers or park crews carry the components to the bridge site. No site is too remote. We often have components carried several miles or more on park trails. Once everything is at the bridge site, the bridge is easily assembled using standard hand tools. Short spans up to 40' can usually be built by as few as two workers, in less than a day.

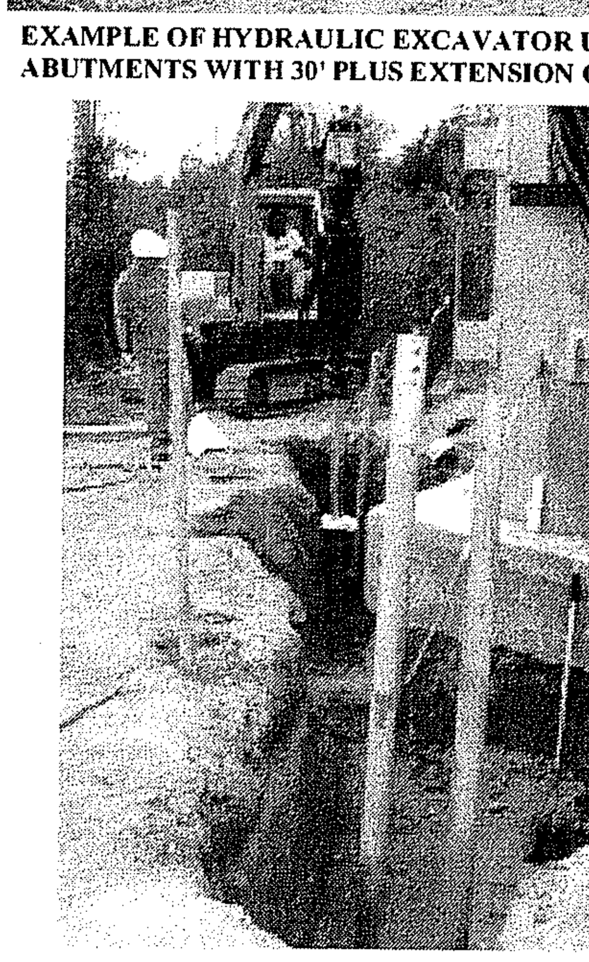
Assembly Tools Required: Most bridges are constructed with no more than a socket wrench and a few common hand tools. All components arrive precut and predrilled, and customized assembly instructions with drawings are provided to show exactly how to assemble the bridge onto your foundations. Typical connections are ¾ inch diameter A307 hot dipped galvanized bolts. All hardware required to assemble the span is included with the shipment. Just line up the holes, insert a bolt, and tighten the nut .

Long Spans on shallow sites -On shallow sites the easiest method is to construct several temporary supports in the streambed using construction lumber, and then build the bridge in place. Bottom chords, posts, diagonals, and top chords are sequentially added until the bridge is fully constructed on your foundations. Then supports are removed and decking is added. A step-by-step set of assembly instructions will be provided, and this type of assembly is appropriate to volunteer groups with experience using hand tools. An 80' foot span can be easily assembled by this method, with a small work crew or volunteers in about 2-3 days.

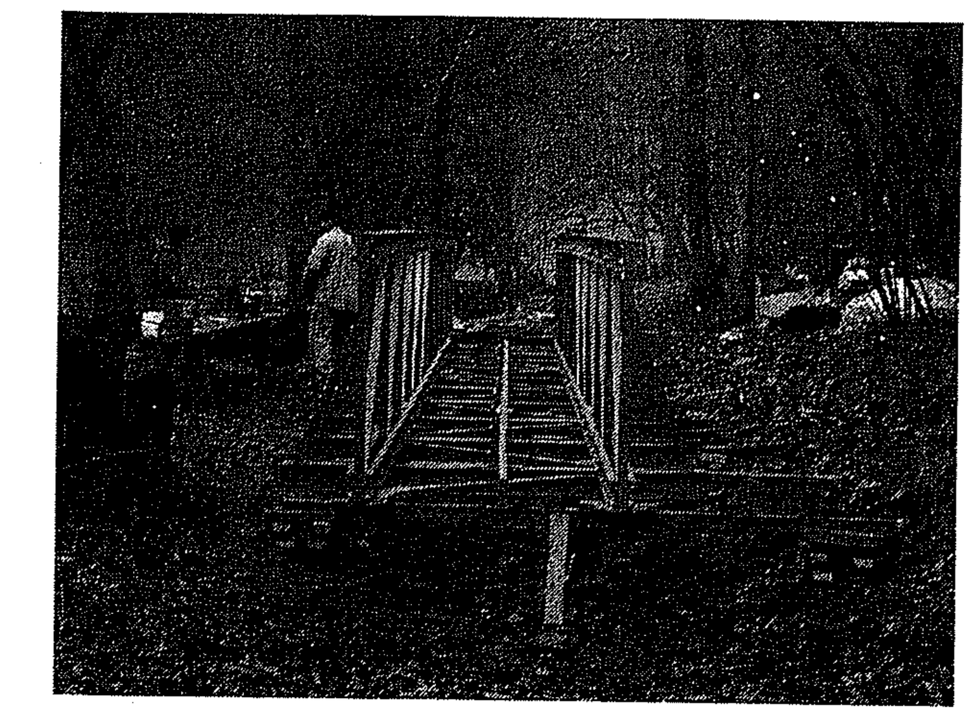
Bridge Abutment Construction Sequencing

1. Rough grading for stone dust path to allow construction access to east bridge abutment of 30'span (Area 2 - see sheet 3 of 10 for area designations) and west abutment of 80' span (Area 4), from Putnam Pike and Oil Mill Lane.
2. A hydraulic excavator will excavate area number 2 for the east abutment of the 30' span.
3. A small trax skid steer with an auger attachment will be used to place helical piles for east abutment of 30' span.
4. Concrete formwork and steel reinforcement will be placed for 30' span east abutment area number 2.
5. Concrete will be poured using a concrete pump truck with boom.
6. 30' span east abutment will be backfilled and rough grading completed.
7. A hydraulic excavator with a 30' plus reach will excavate area number 1 30' span west abutment from 30' span east abutment area number 2.
8. Temporary Bridge to be placed to get to center island area number 1 west abutment. Temporary bridge to be specified by contractor
9. A small trax skid steer with an auger attachment will go over temporary bridge and place helical piles for west abutment of 30' span.
10. Concrete formwork and steel reinforcement will be placed for 30' span east abutment area number1.
11. Concrete will be poured using a concrete pump truck with boom.
12. 30' span west abutment will be backfilled and rough grading completed.
13. Bridge truss and decking to be lifted and placed by hand.
14. Small trax skid steer will conduct excavation at area number three 80' span east abutment.
15. A small trax skid steer with an auger attachment will be used to place helical piles for east abutment of 80' span.
16. Concrete formwork and steel reinforcement will be placed for 80' span east abutment area number 3.
17. Concrete to be poured by boom truck if complications arise due to obstruction of trees all concrete to be transported and placed manually.
18. 80' span east abutment will be backfilled and rough grading completed.
19. 80' west abutment to be installed with hydraulic excavator from area number 4.
20. Once completed a small trax skid steer with an auger attachment will be used to place helical piles for west abutment of 80' span.
21. Concrete formwork and steel reinforcement will be placed for 80' span east abutment area number 3.
22. Concrete will be poured using a concrete pump truck with boom.
23. 80' span west abutment will be backfilled and rough grading completed.
24. 80' Span to be pre-assembled in lay down area within area number 4
25. Pre -assembled bridge to be placed on temporary scaffolding system, supports are removed as decking is added.

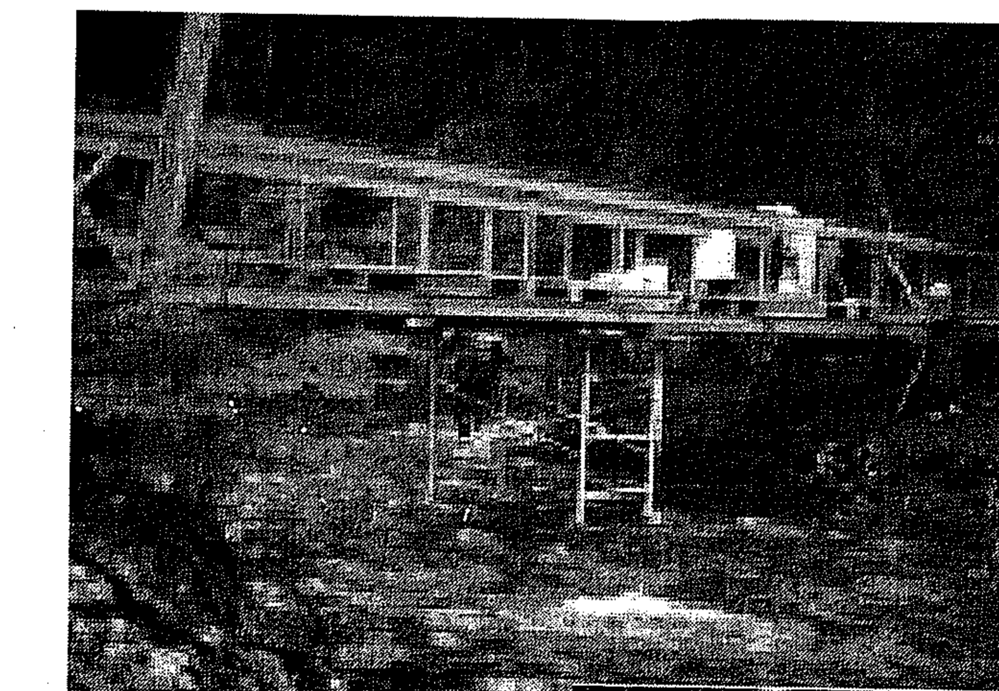
EXAMPLE OF HYDRAULIC EXCAVATOR USED FOR ABUTMENTS WITH 30' PLUS EXTENSION CAPABILITY

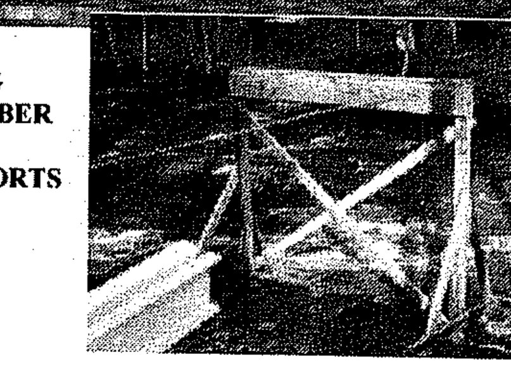


EXAMPLE OF SMALL TRAX SKID STEER WITH AN AUGAR ATTACHMENT TO DRIVE HELICAL PILES

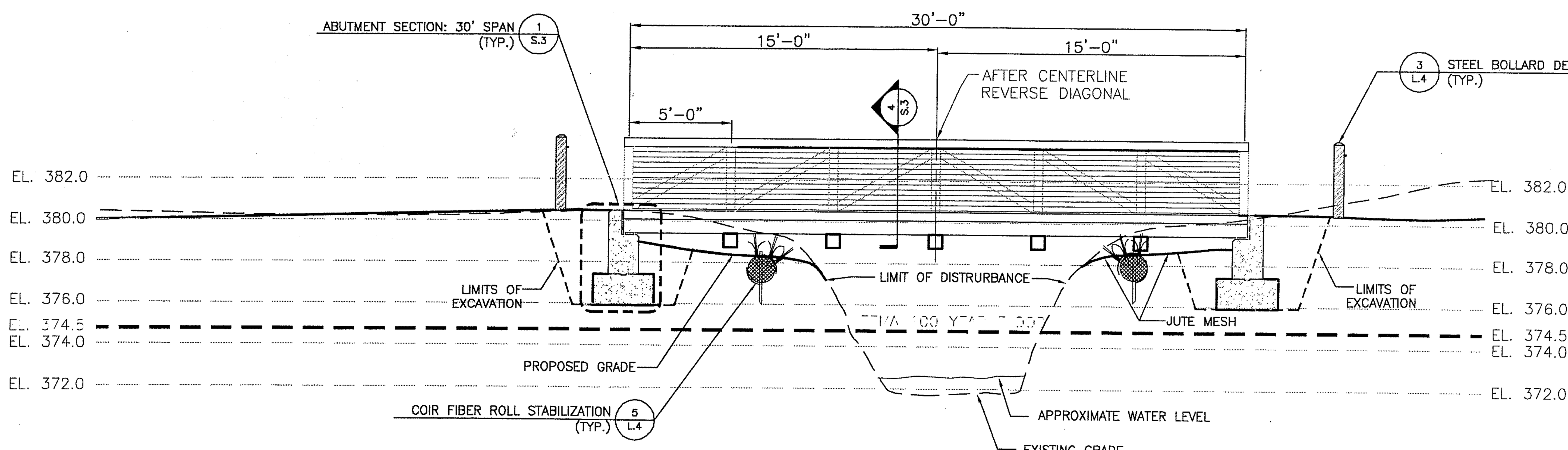


PRE-ASSEMBLED BRIDGE, WHEN THE BRIDGE IS DELIVERED AS COMPONENT PARTS NO PIECE WEIGHS MORE THAN 90 LBS.



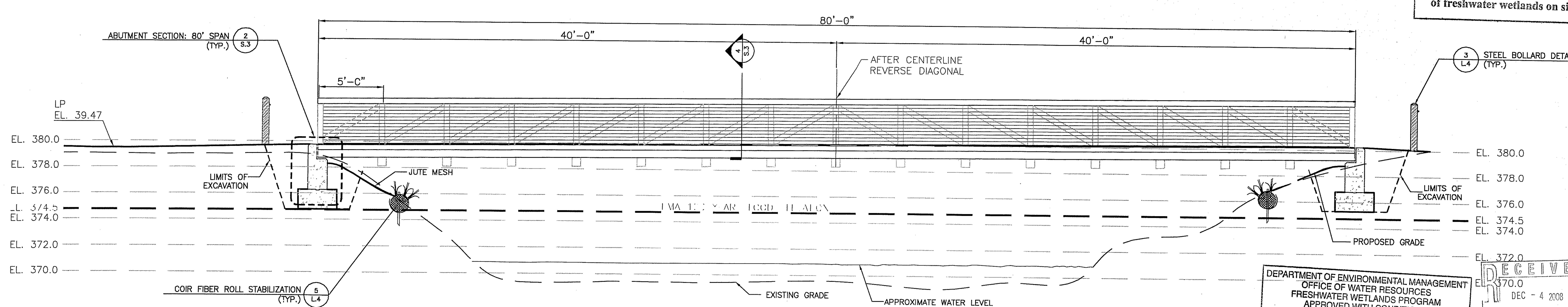


ASSEMBLY OF BRIDGE USING TEMPORARY SUPPORTS, TIMBER IS COMMONLY USED AS THE MATERIAL FOR THESE SUPPORTS



1 S.3 SECTION: 30' SPAN
SCALE 1/4"=1'-0"

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



2 S.2 SECTION: 80' SPAN
SCALE 1/4"=1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 08-0069
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

RECEIVED
DEC - 4 2008
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

DAVID M. D'AMICO
No. 6745
REGISTERED PROFESSIONAL ENGINEER
CIVIL
12/4/08

Not Issued For Construction

Revisions:
PERMITTING: SEPTEMBER, 2008
PERMITTING: DECEMBER, 2008

Job No: P-920
Dwg No: S.2
Drawn: AJE/AJR
Checked: DSL
Issued: MARCH, 2008

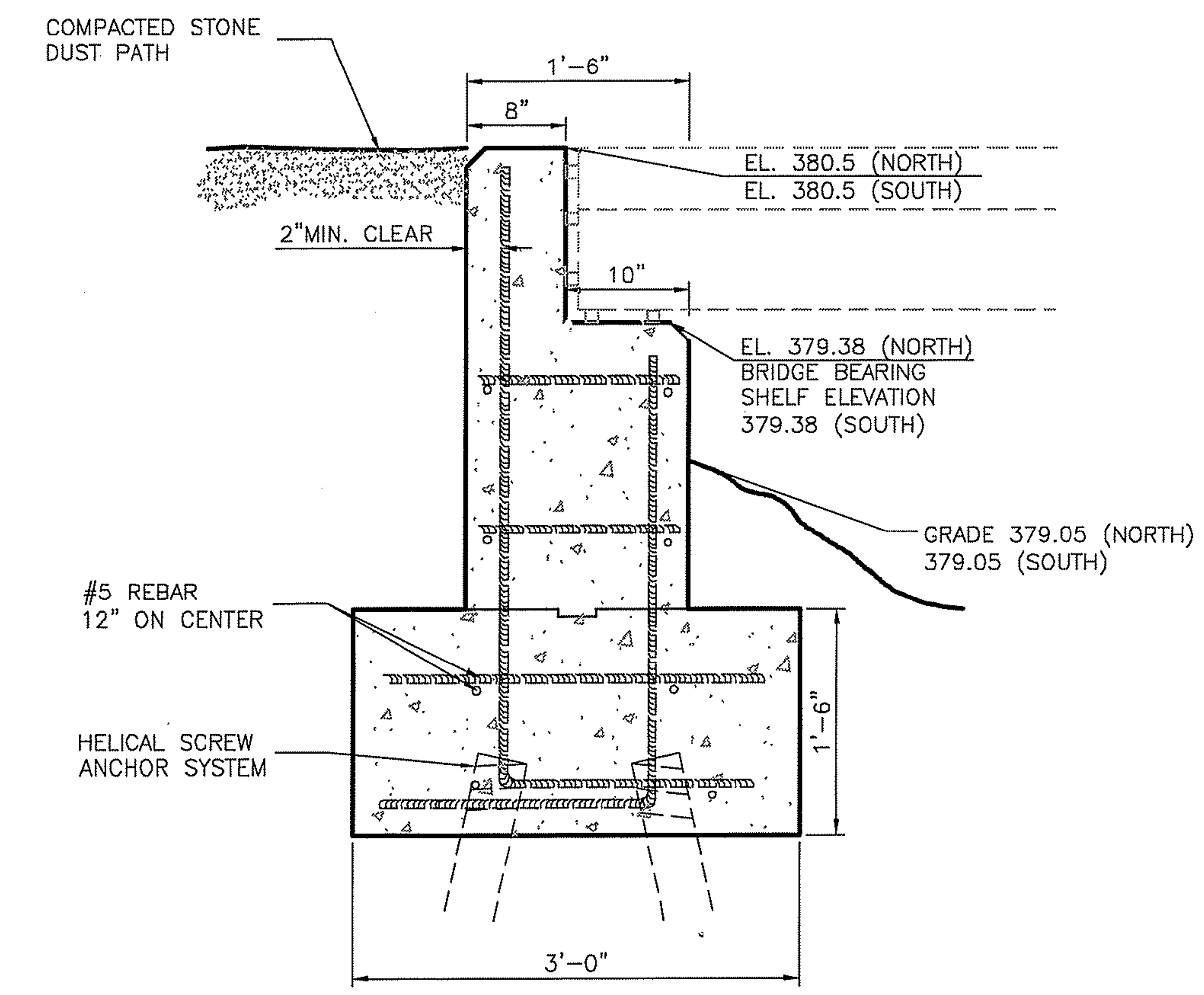
Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE
865-A Waterman Ave., East Providence, RI 02914 Ph:(401)438-2071 Fax:(401)434-7511 E-mail:glari@glalo.com

CDE
CASALI & D'AMICO ENGINEERING, INC.

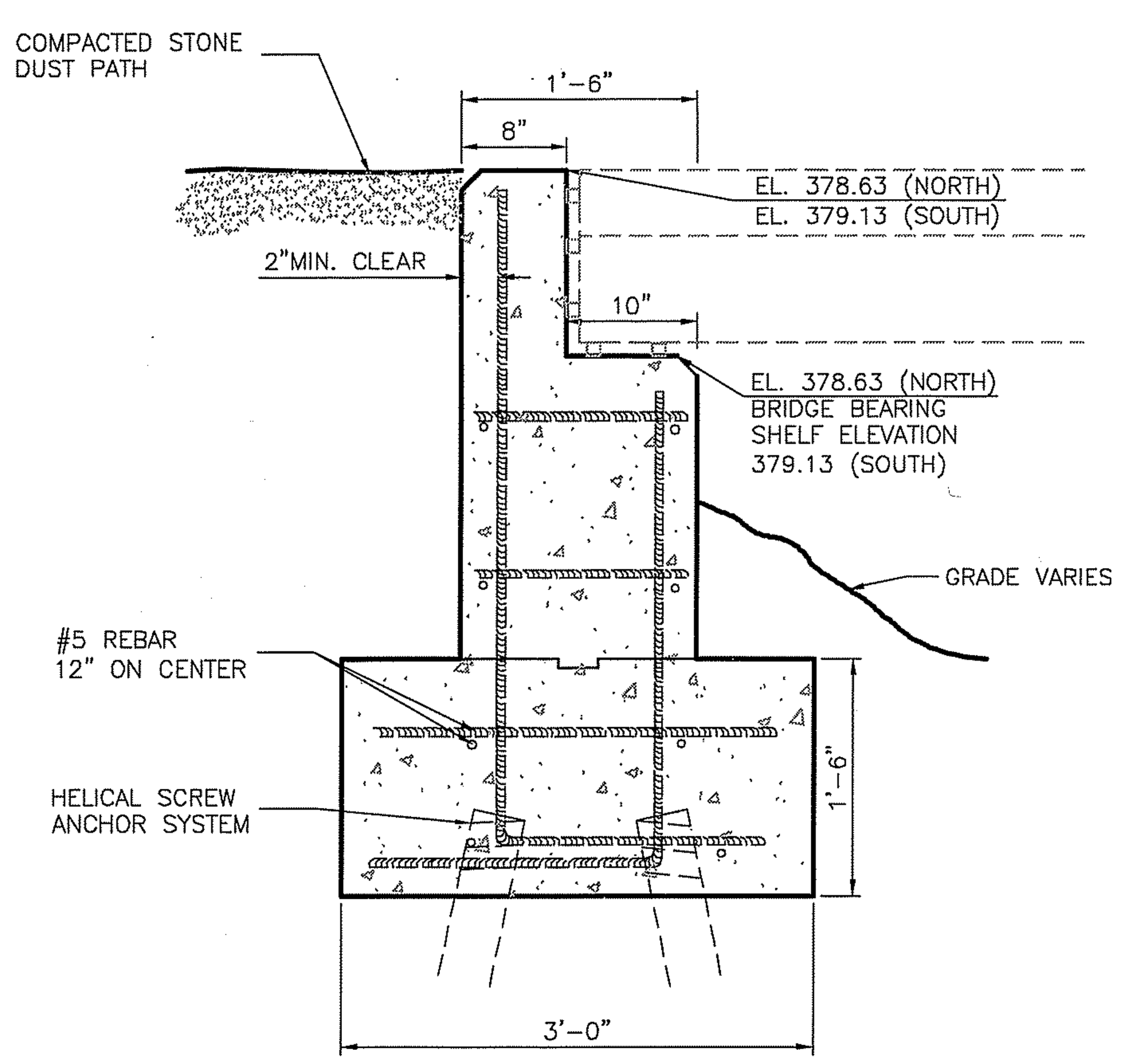
DAVEY ASSOCIATES INC
STRUCTURAL ENGINEERS

BRIDGE SECTIONS: 80' SPAN AND 30' SPAN
Chepachet River Park Design
Village of Chepachet
Town of Glocester, Rhode Island

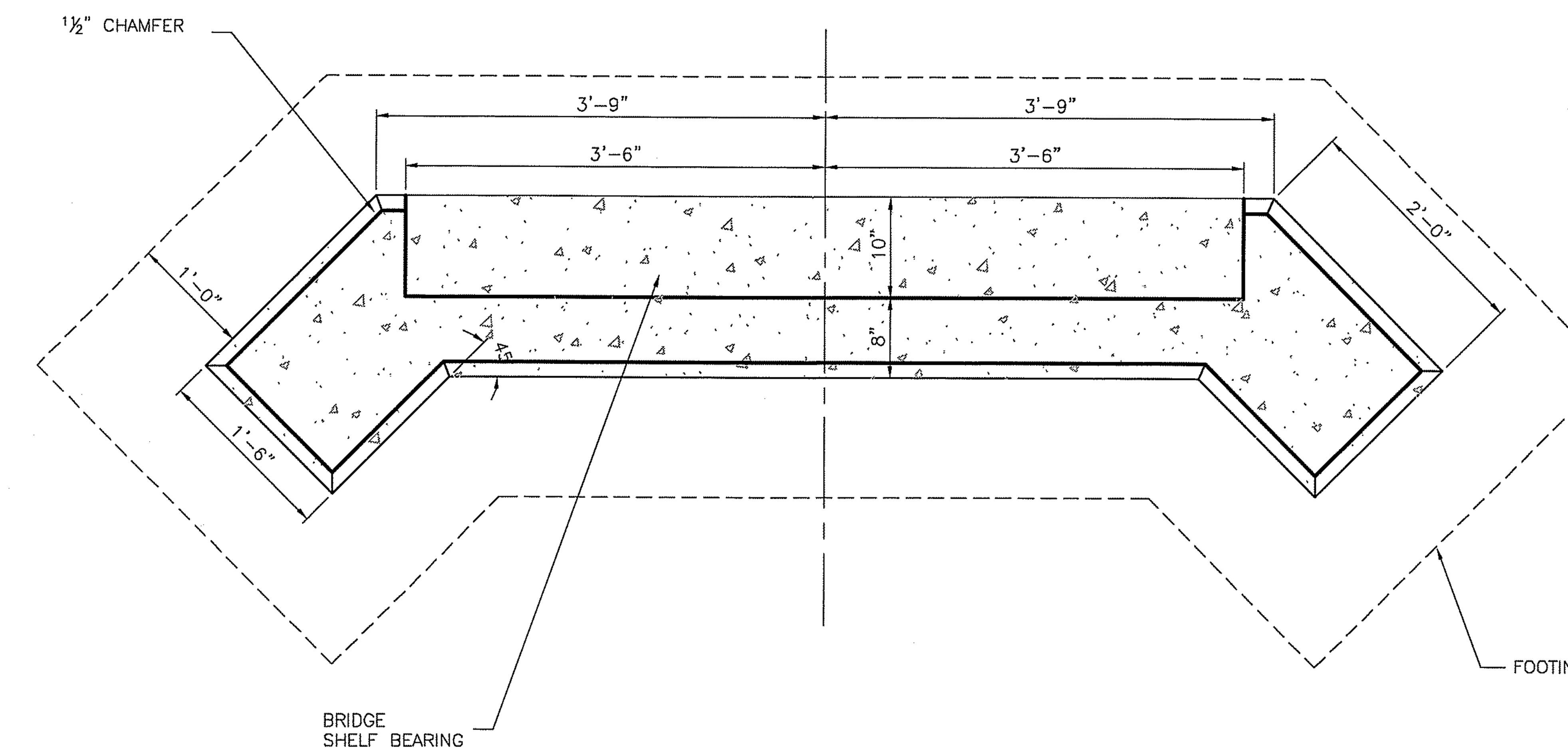
Permitting Documents



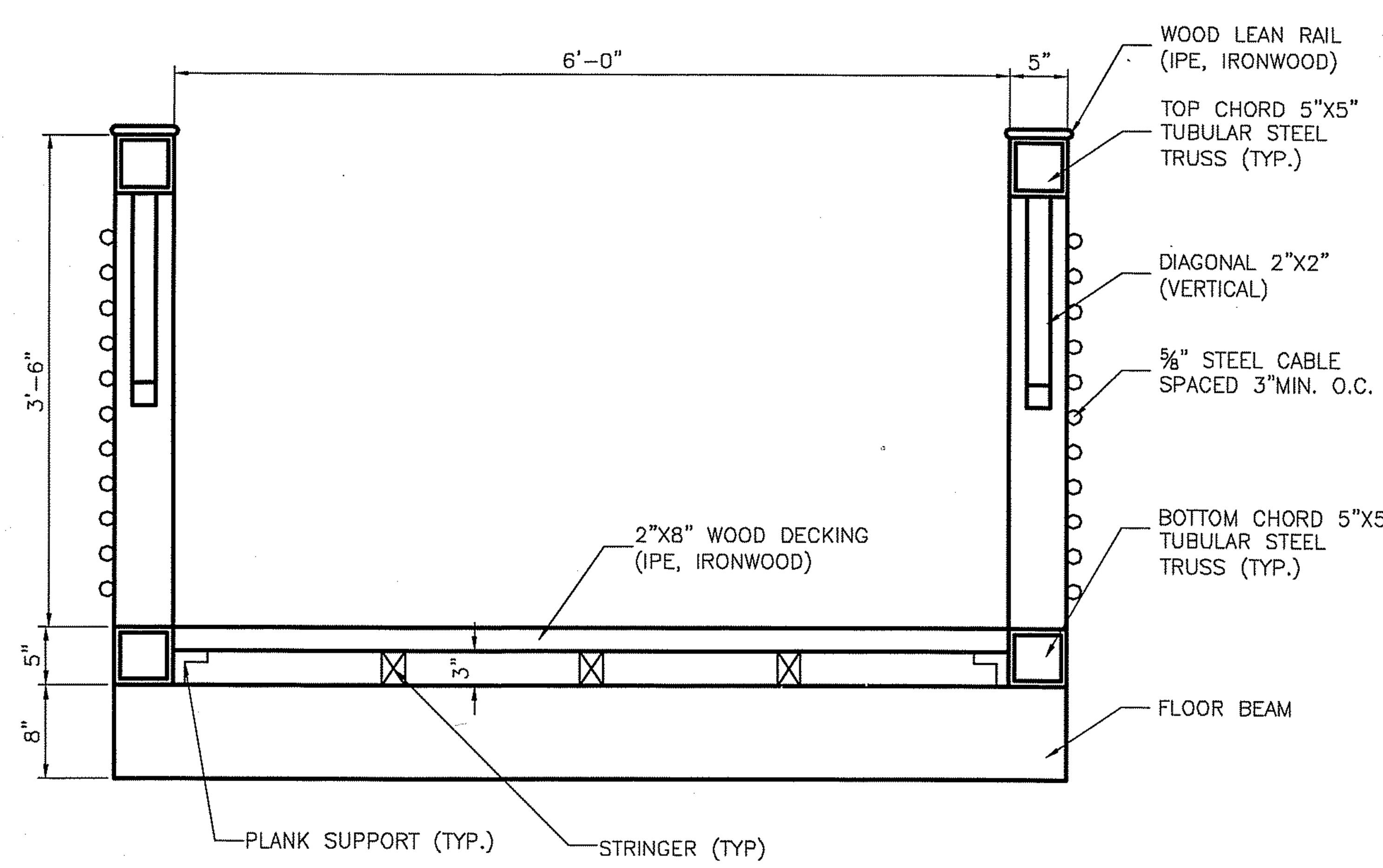
1/S.3 SECTION: 30' ABUTMENT
SCALE 1"=1'-0"



2/S.3 SECTION: 80' ABUTMENT
SCALE 1"=1'-0"



3/S.3 BRIDGE ABUTMENT PLAN (TYP.)
SCALE 1"=1'-0"



BRIDGE
TYPICAL SECTION DETAIL
NOT TO SCALE

4/S.3 BRIDGE SECTION (TYP.)
SCALE 1"=1'-0"

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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RECEIVED SEP 25 2008

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Revisions:
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Drawn:	AJE/AJR
Checked:	DSL
Issued:	MARCH, 2008

Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE

DAVEY ASSOCIATES INC

CDE

ABUTMENT DETAILS AND PLANS BRIDGE SECTION

Chepachet River Park Design

Village of Chepachet
Town of Glocester, Rhode Island

Permitting Documents