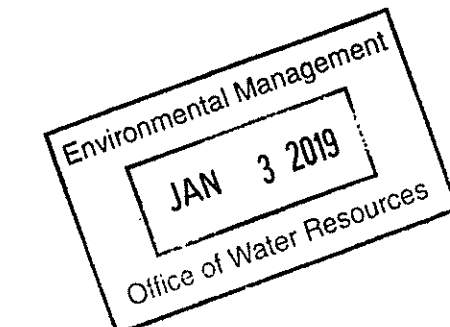


LEGEND

R&R REMOVE AND RELOCATE/RESET (PER NOTES/OWNER)
 R&D REMOVE AND DISPOSE
 R&S REMOVE AND STOCKPILE

LIMIT OF DISTURBANCE (LOD) ————

CHAIN LINK FENCE (CLF) ————



GENERAL NOTES:

USE ADEQUATE NUMBERS OF WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS CONTRACT.

USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND NUMBERS TO ACCOMPLISH THE WORK IN A TIMELY MANNER.

PROVIDE EROSION AND SEDIMENTATION CONTROL IN CONFORMANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RHODE ISLAND CONSERVATION COMMITTEE.

CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENT CONTROLS AS FIRST PHASE OF CONSTRUCTION.

CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH STORM EVENT. CONTRACTOR SHALL REPLACE ALL DEVICES AS NEEDED.

CONTRACTOR SHALL MINIMIZE THE AREA OF CLEARING AND GRUBBING TO PREVENT EXCESSIVE AREAS OF BARE SOIL. CONTRACTOR SHALL IMMEDIATELY PROTECT FROM EROSION THOSE AREAS IN COORDINATION WITH THE SITE GRADING ACTIVITIES.

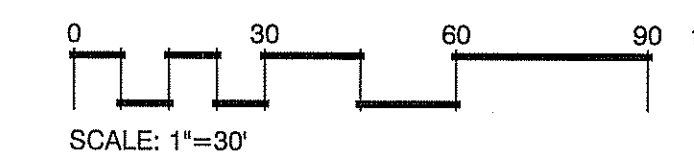
CONTRACTOR SHALL PROVIDE PROTECTION FOR EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.

UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE FROM THE SITE AND STAGING AREA ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS, WASTE, AND ALL EROSION AND SEDIMENTATION CONTROLS.

RESTORE ANY DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION, BY APPLYING TOPSOIL AND SEED AS INDICATED BY OWNER.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 11 2019 FILE # B-DIG
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles H. [Signature]



No.	Description	Date
REVISIONS:	2	

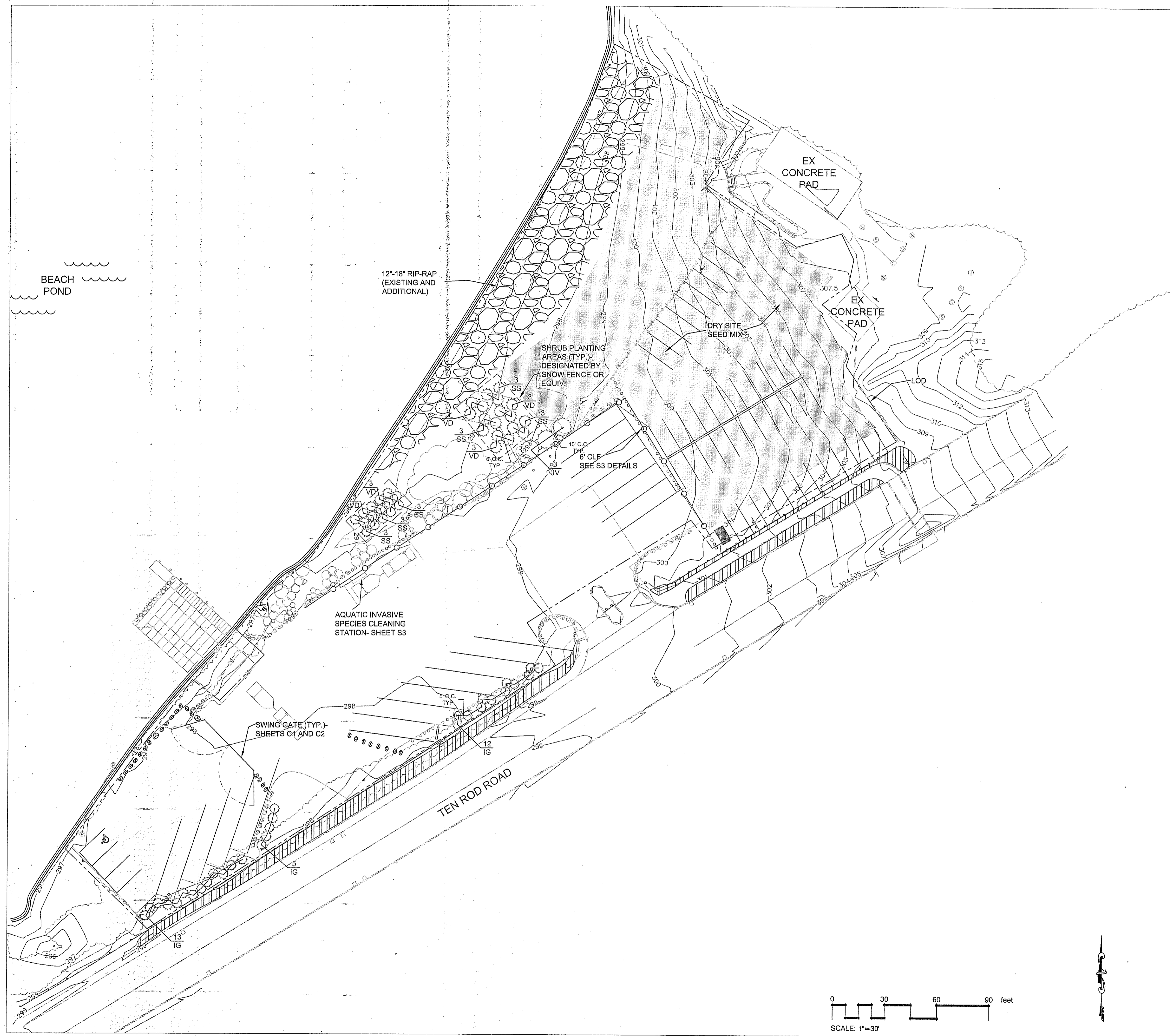
STATE OF RHODE ISLAND
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF PLANNING AND DEVELOPMENT

The Nature Conservancy
 Protecting nature. Preserving life.

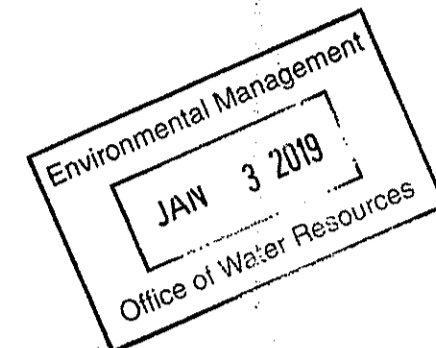
Design by: JRT
Drawn by: JRT
Checked by:
Date: DECEMBER 2018

BEACH POND, EXETER, RI
 SITE PREPARATION

S 1



PLANT SCHEDULE			
KEY	QTY	SCIENTIFIC NAME- Common Name	SIZE
TREES			
JV	3	JUNIPERUS VIRGINIANA- Eastern Red Cedar	4-5'H
SHRUBS			
IG	30	ILEX GLABRA-Inkberry	2-3'
SS	18	SALIC SERICEA-Silky Willow	2-3'
VD	15	VIBURNUM DENTATUM- Arrowwood Viburnum	2-3'

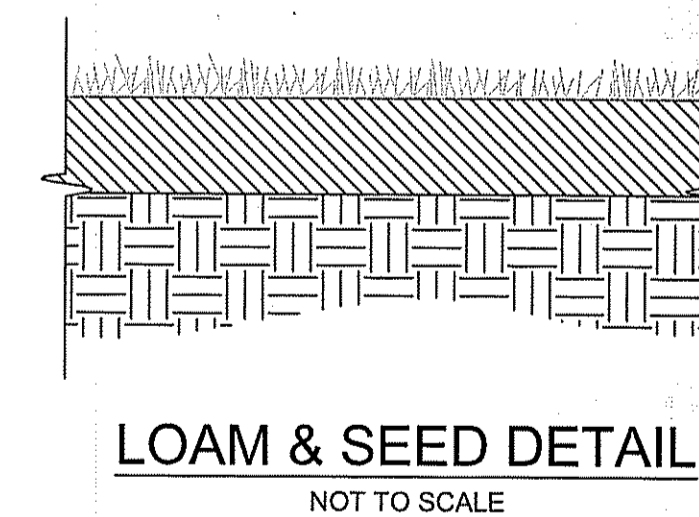


DRY SITE MIX
 NEWP: NEW ENGLAND ROADSIDE MATRIX UPLAND MIX
 COMMON NAME (SCIENTIFIC NAME)
 VIRGINIA WILD RYE (ELYMUS VIRGINICUS)
 LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
 RED FESCUE (FESTUCA RUBRA)
 BIG BLUESTEM (ANDROPOGON GERARDII)
 INDIAN GRASS (SORGHASTRUM NUTANS)
 SWITCH GRASS (PANICUM VIRGATUM)
 PARTRIDGE PEA (CHAMAECRISTA FASCICULATA)
 BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA)
 PANICLEDLEAF TICK TREFOIL (DESMODIUM PANICULATUM)
 BEARD TONGUE (PENSTEMON DIGITALIS)
 BLACK EYED SUSAN (RUDBECKIA HIRTA)
 HOLLOW-STEM JOE PYE WEED (EUPATORIUM FISTULOSUM/EUTROCHIUM FISTULOSUM)
 GREY DOGWOOD (CORNUS RACEMOSA)
 SILKY DOGWOOD (CORNUS AMOMUM)
 STAGHORN SUMAC (RHUS TYPHINA)

APPLICATION RATE = 35 LBS. / ACRE

SEEDING NOTES

- POWER RAKE EXISTING RIP-RAP FROM UPLAND SEEDED AREA TO RIP-RAP AREA DESIGNATED ON SITE PLAN
- LOAM SHALL BE SPREAD TO A MINIMUM DEPTH OF 2" FOR SEEDING AREAS DESIGNATED ON PLANS
- SEED SHALL BE RAKED INTO SOIL AND COVERED IN A LIGHT LAYER OF WEED-FREE STRAW.
- 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 3 TO 4 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQ. FT. AT SEEDING.
- 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 DIGGING OR OTHER APPROVED METHOD. DISTRIBUTE LIME UNIFORMLY AND WORK INTO TOP 4 INCHES OF TOP SOIL (MINIMUM) AND UNIFORMLY BLEND.
- APPLICATION OF SEED:
 - RATE OF APPLICATION OF SEED SHALL BE AS INDICATED ON PLANS.
 - SEEDING SHALL BE DONE ONLY DURING THE FOLLOWING DATES:
 SPRING SEEDING: MARCH 15 TO MAY 31
 FALL SEEDING: AUGUST 15 TO OCTOBER 15
 - THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RE-SEEDING 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
- SEEDING TO TAKE PLACE AFTER THE OCCURRENCE OF THE SEASONAL HIGH WATER
- DO NOT MOW.

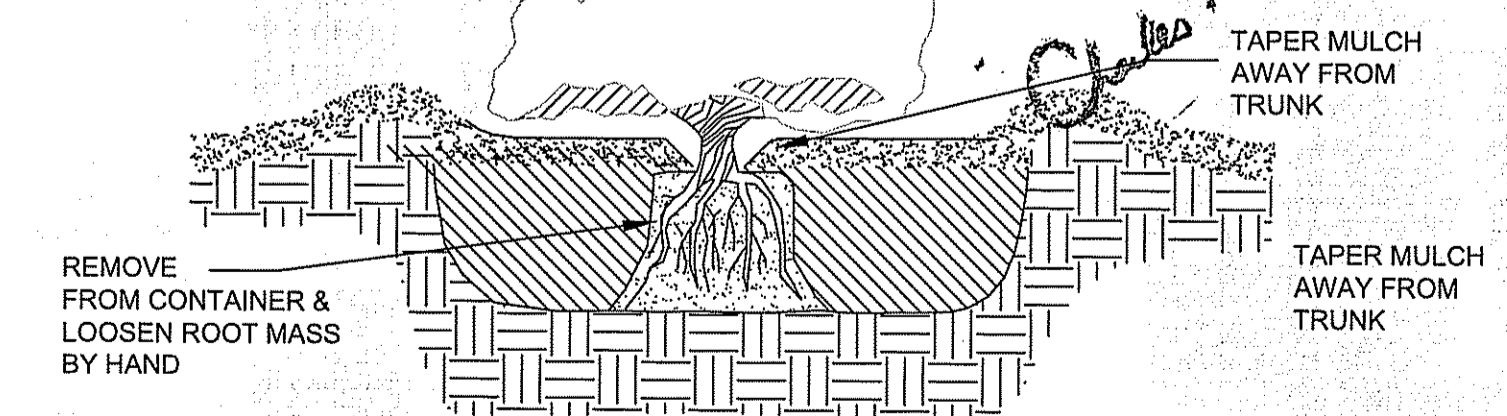


LOAM & SEED DETAIL
NOT TO SCALE

PROVIDE 2" GOOD QUALITY FERTILE LOAM

EXISTING SUBSOIL AND GRADE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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 FRESHWATER WETLANDS PROGRAM
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SHRUB PLANTING DETAIL
NOT TO SCALE

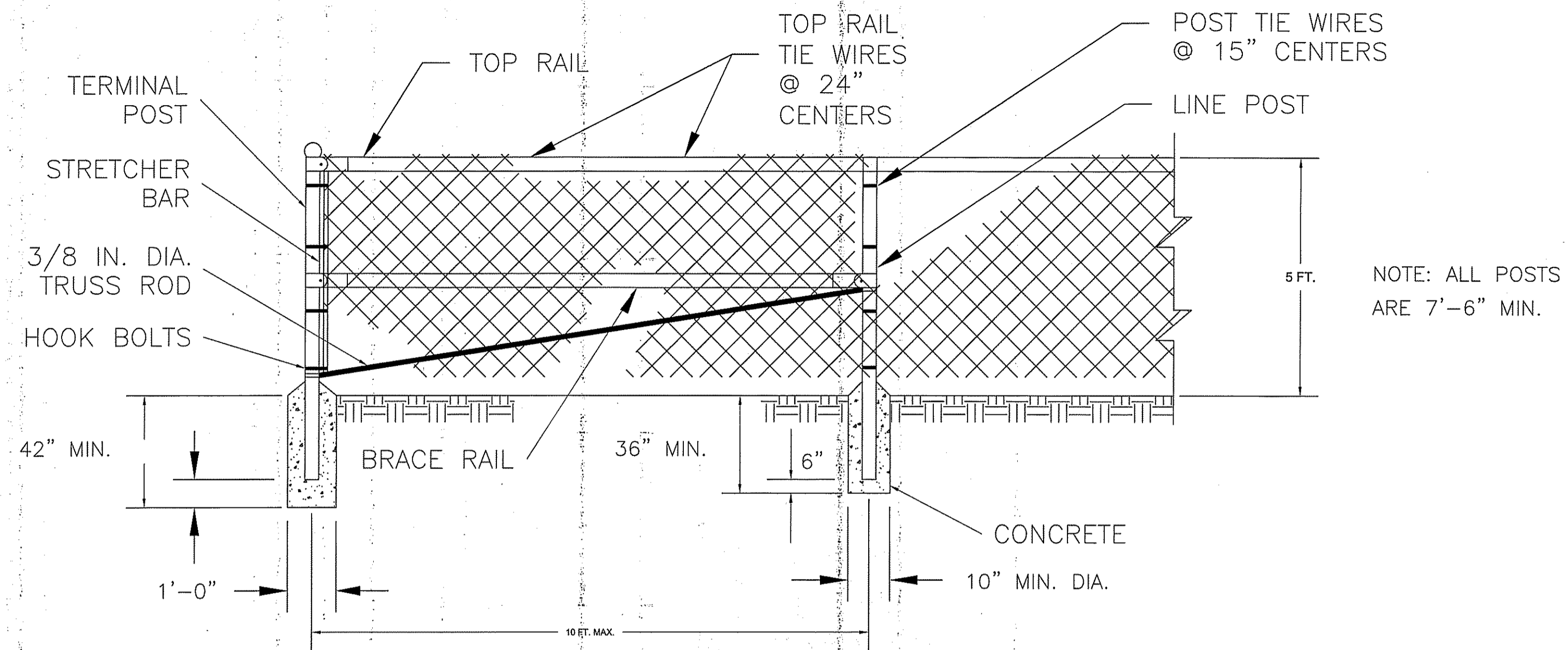
No.	Description	Date
REVISIONS:	2	

STATE OF RHODE ISLAND
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF PLANNING AND DEVELOPMENT

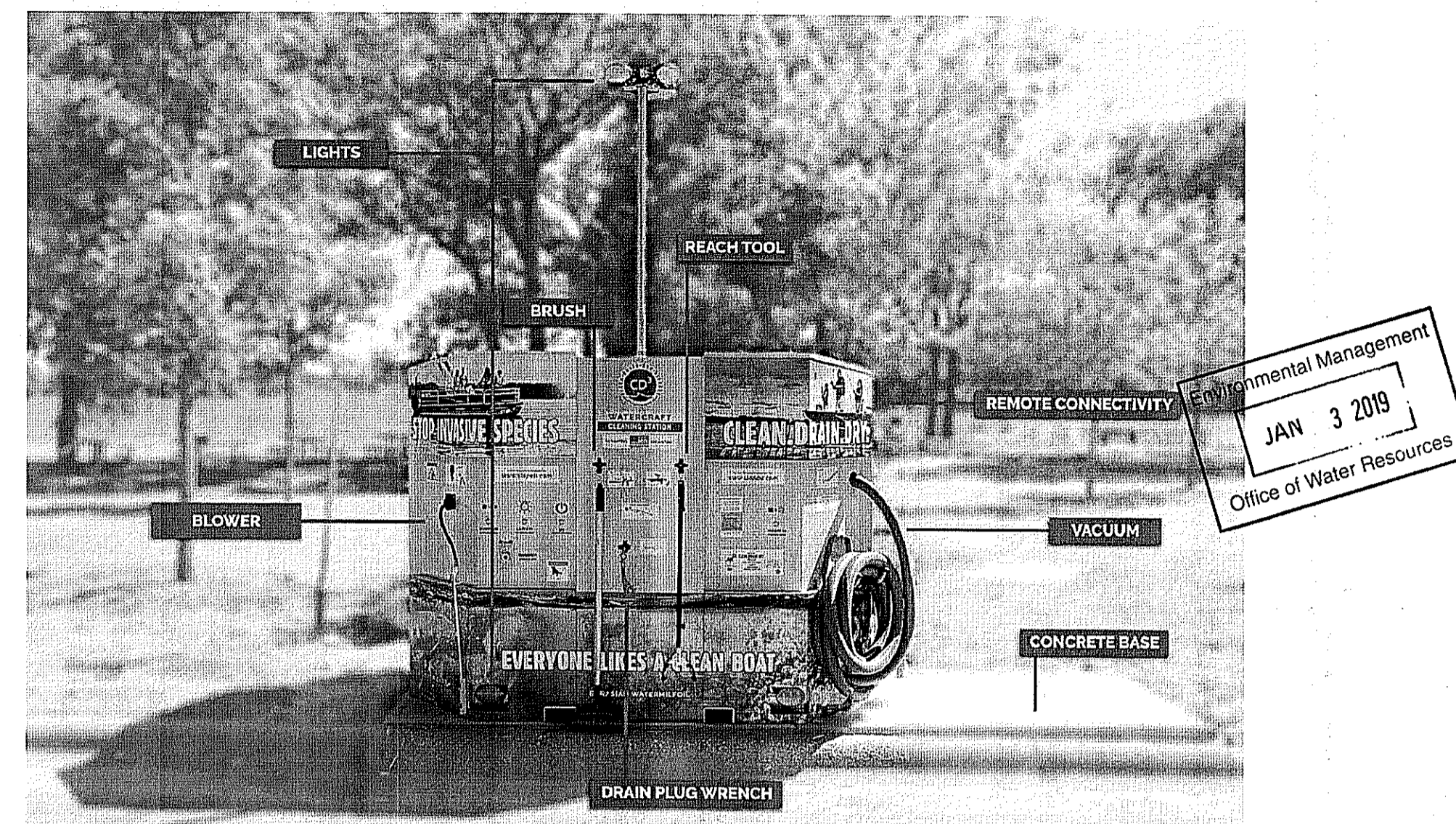
The Nature Conservancy
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Design by: JRT
Drawn by: JRT
Checked by:
Date: DECEMBER 2018

**BEACH POND, EXETER, RI
 SITE PLAN**

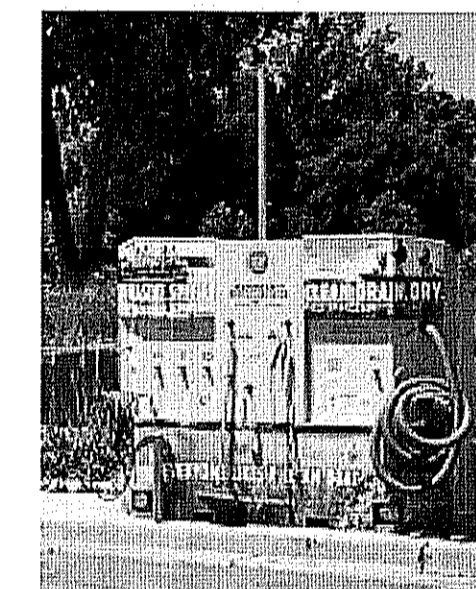


CHAIN LINK FENCE DETAILS

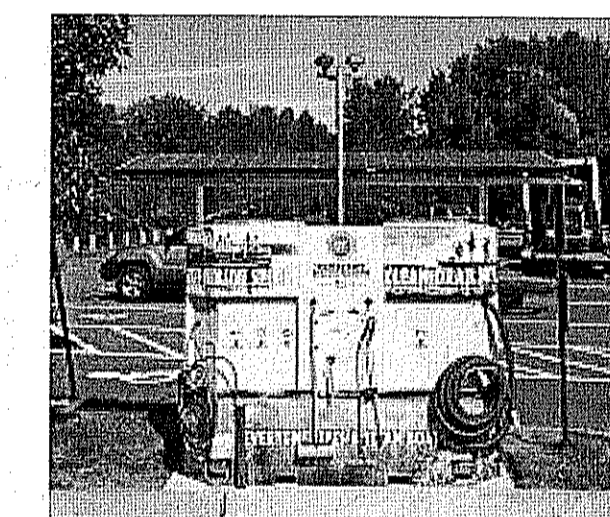


CD³ Waterless Cleaning Systems

Clean-Drain-Dry-Dispose: CD³ Systems empower boaters to prevent spread of invasive species with user-operated, waterless cleaning equipment. Four models available:



1. CD³ Station
Grid-connected, for unlimited use. Tools include wet/dry vacuum, air blower, tethered hand tools & LED lights. Unit has concrete base with 220 volt, 30 amp service required.

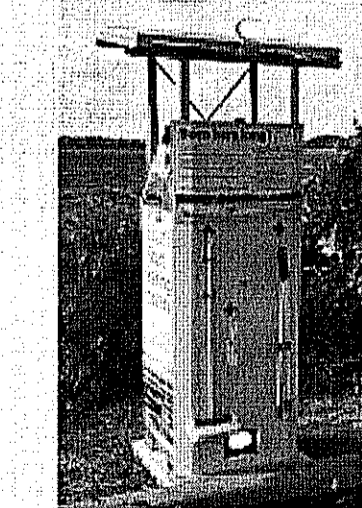


2. CD³ Wayside
Solar powered or 120v for sites with ~100 boats/day. Fast-install option available with precast base.



3. CD³ Trailer
Mobile unit with ratchet down base, removable wheels & storage deck. Solar powered or recharge option with 120v smart charger.

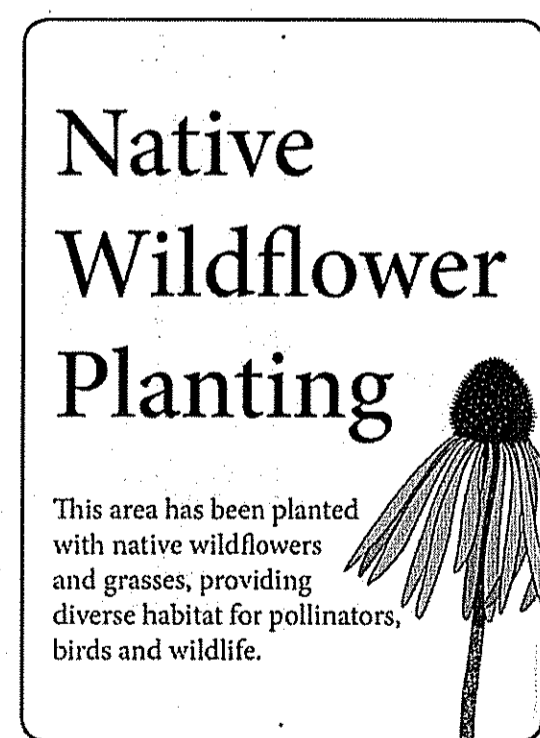
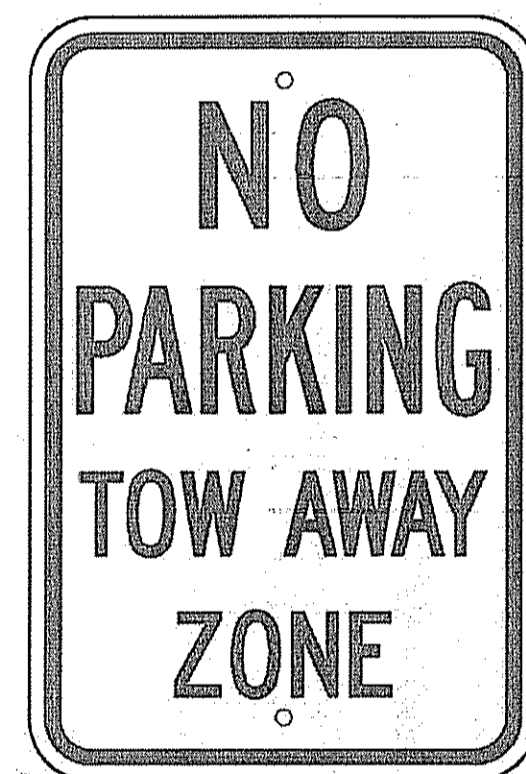
My CD³ Software + Invasive WiFi
All systems are internet connected to provide use data and save on O&M. Invasive WiFi option provides boaters local lake information via a digital kiosk.



4. CD³ Outpost
Tethered hand tools & solar powered lights. Best suited for smaller or overflow areas. A precast base is available as an option. **INSTALL WITH LETTER OF APPROVAL AS SPECIFIED IN THE LETTER OF APPROVAL**
DATED JAN 11 2019 FILE # 13-0124
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
FOR BOATERS™

SALE or LEASE CONTACT
stopAIS@cd3station.com
612-467-9441
www.cd3station.com

BY BOATERS
Patent Pending | Made in Minnesota, USA | © 2018 CD³



SIGNAGE DETAILS



STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

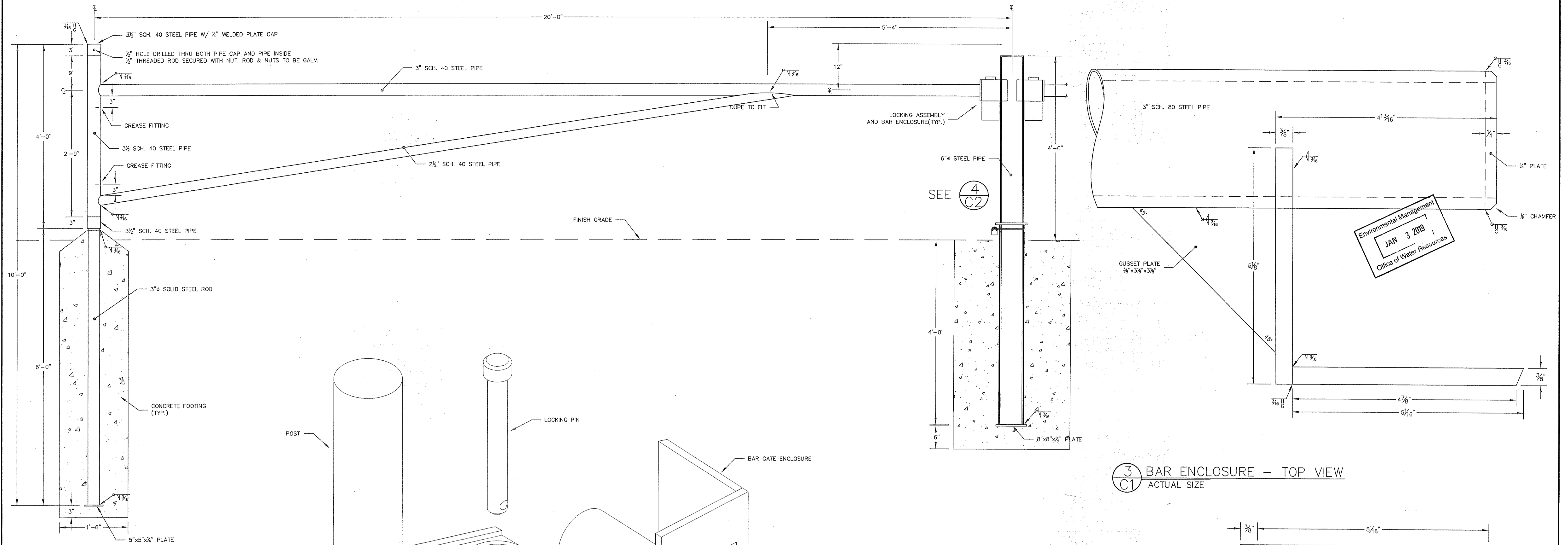


Design by: JRT
Drawn by: JRT
Checked by:
Date: DECEMBER 2018

BEACH POND, EXETER, RI
DETAILS

S 3

No.	Description	Date
REVISIONS:	2	



1 GATE LAYOUT
SCALE 1"=1'-0"

- NOTES:
1. ALL PIPE TO BE ASTM GRADE 501 STEEL PIPE.
 2. ALL PLATES AND BARS TO BE A-36 STEEL.
 3. 3" PIPE TO BE GROUND AS REQUIRED TO PROVIDE A SMOOTH SLIDING FIT.
 4. AFTER CLEANING, ALL STEEL (EXCEPT HINGED SHAFT) SHALL BE PAINTED WITH ONE COAT OF SHERWIN-WILLIAMS MACROPOXY 646 AND TOP-COATED WITH ACROLON 218 HS. COLOR SHALL BE DECK RED (#SW 4040).
 5. ALL WELDING SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN WELDING SOCIETY.

2 LOCKING ASSEMBLY - ISOMETRIC VIEW

3 BAR ENCLOSURE - TOP VIEW
ACTUAL SIZE

4 BAR ENCLOSURE - FRONT VIEW
ACTUAL SIZE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED JAN 11 2018 FILE # 13-0164
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No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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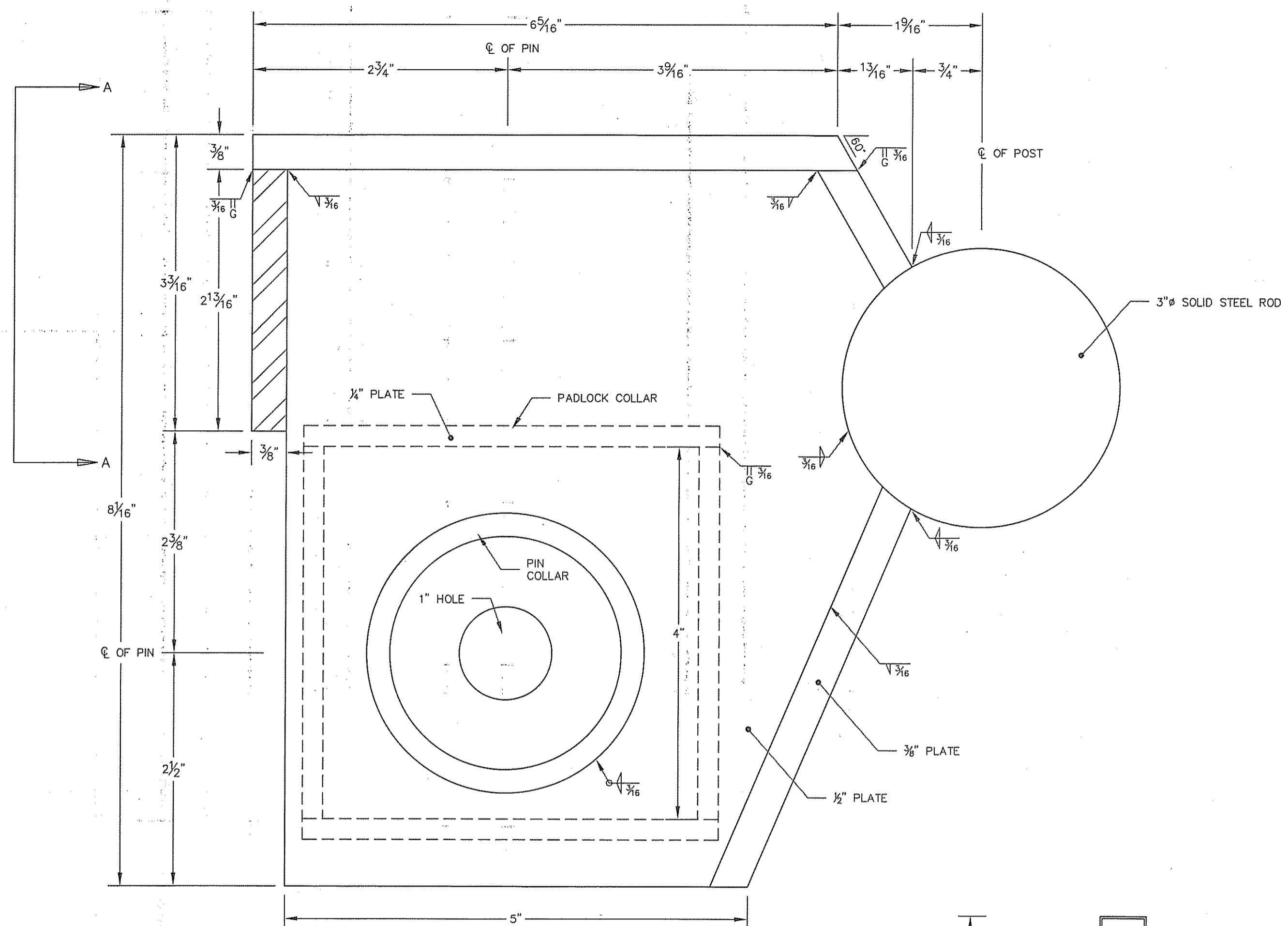
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STEEL BAR GATE

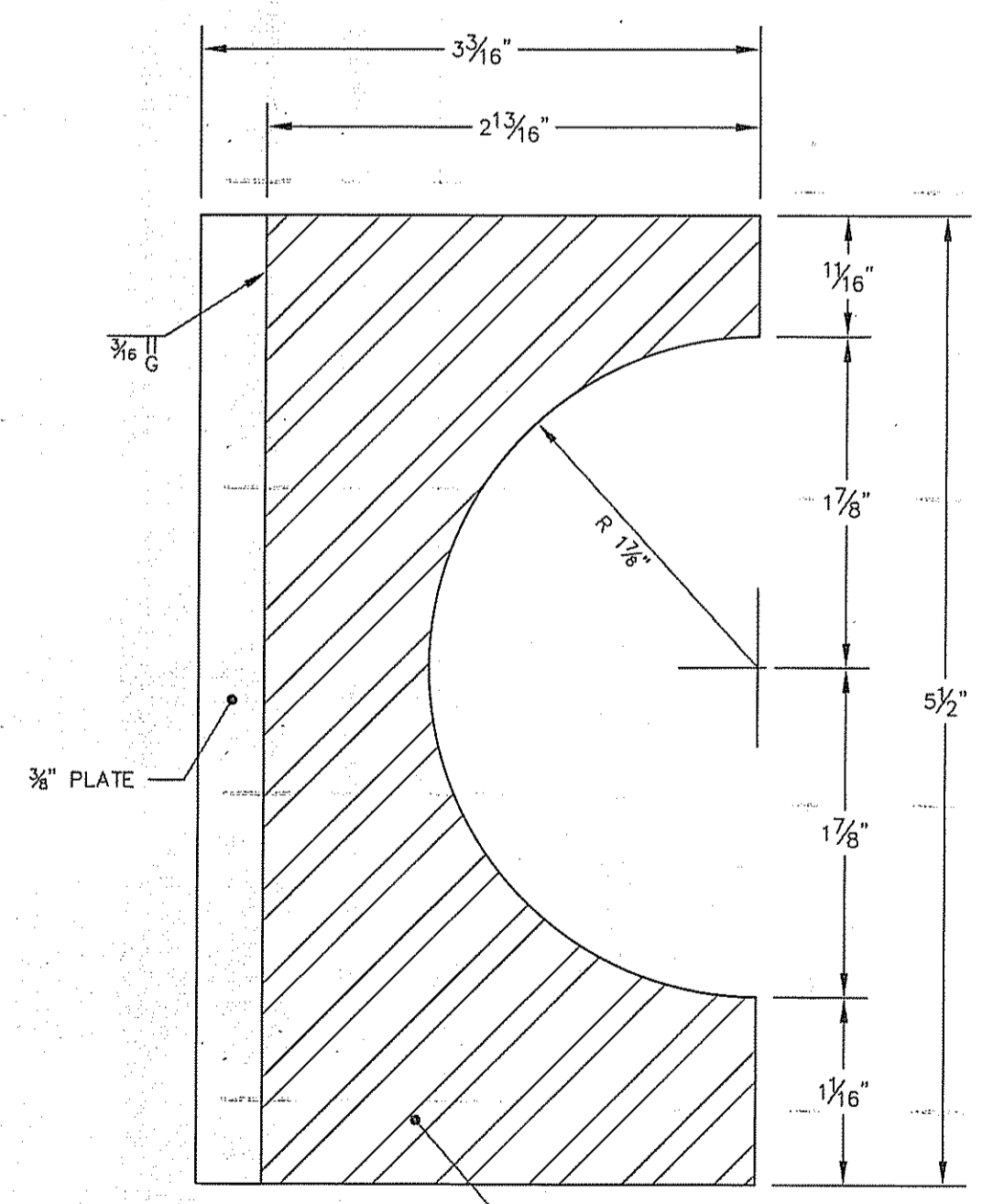
Design by: JRT
Drawn by: JRT
Checked by:
Date: December, 2018
Scale: As Noted
Project No.: N/A

SECTIONS AND DETAILS

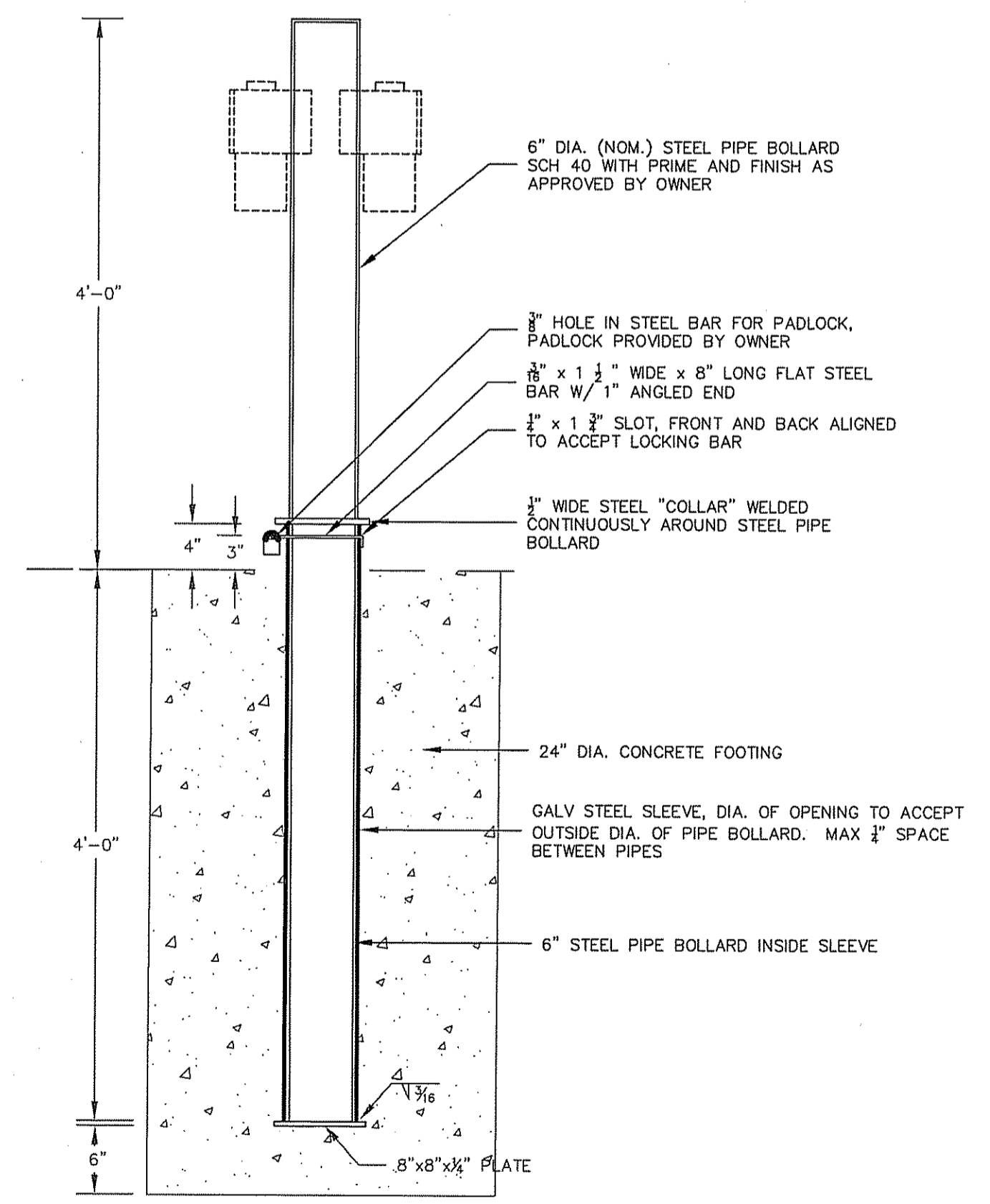
C1
SHEET 4 OF 5



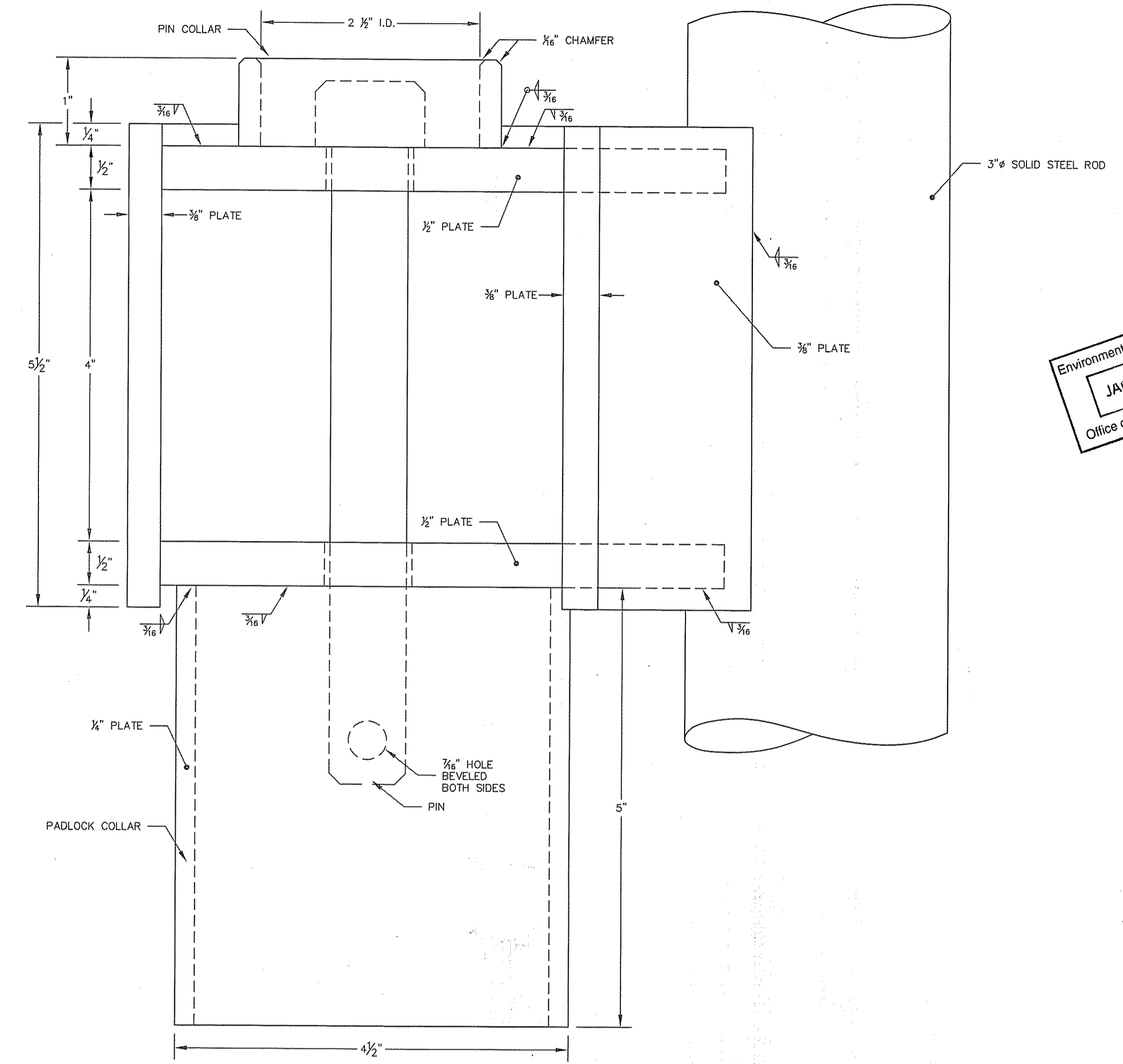
1 BAR GATE CHAMBER - TOP VIEW
C2 ACTUAL SIZE



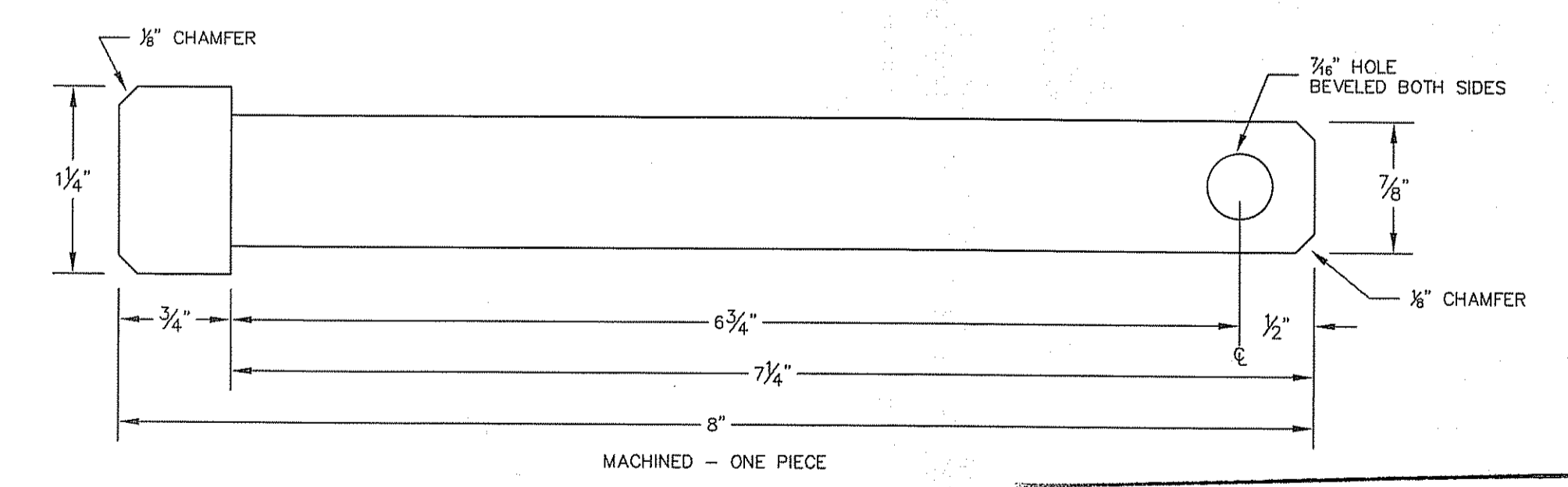
3 SECTION A-A
C2 ACTUAL SIZE



4 REMOVABLE STEEL BOLLARD
1"=1'



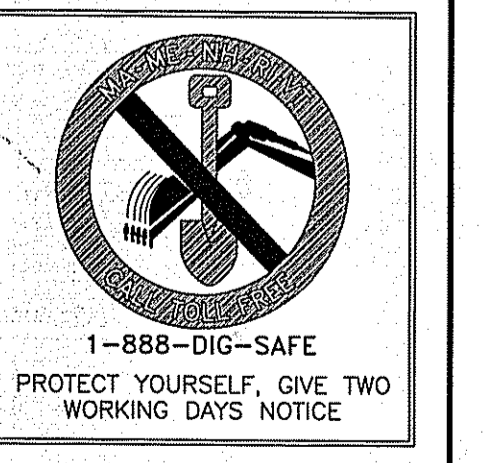
2 BAR GATE CHAMBER - FRONT VIEW
C2 ACTUAL SIZE



5 LOCKING PIN
C2 ACTUAL SIZE

Environmental Management
JAN 3 2019
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED JAN 11 2019 FILE # 13-D14
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1-888-DIG-SAFE
PROTECT YOURSELF. GIVE TWO WORKING DAYS NOTICE

No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

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STEEL BAR GATE

Design by: JRT
Drawn by: JRT
Checked by:
Date: December, 2018
Scale: As Noted
Project No.: N/A

SECTIONS AND DETAILS

C2
SHEET 5 OF 5

STATE OF RHODE ISLAND



DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

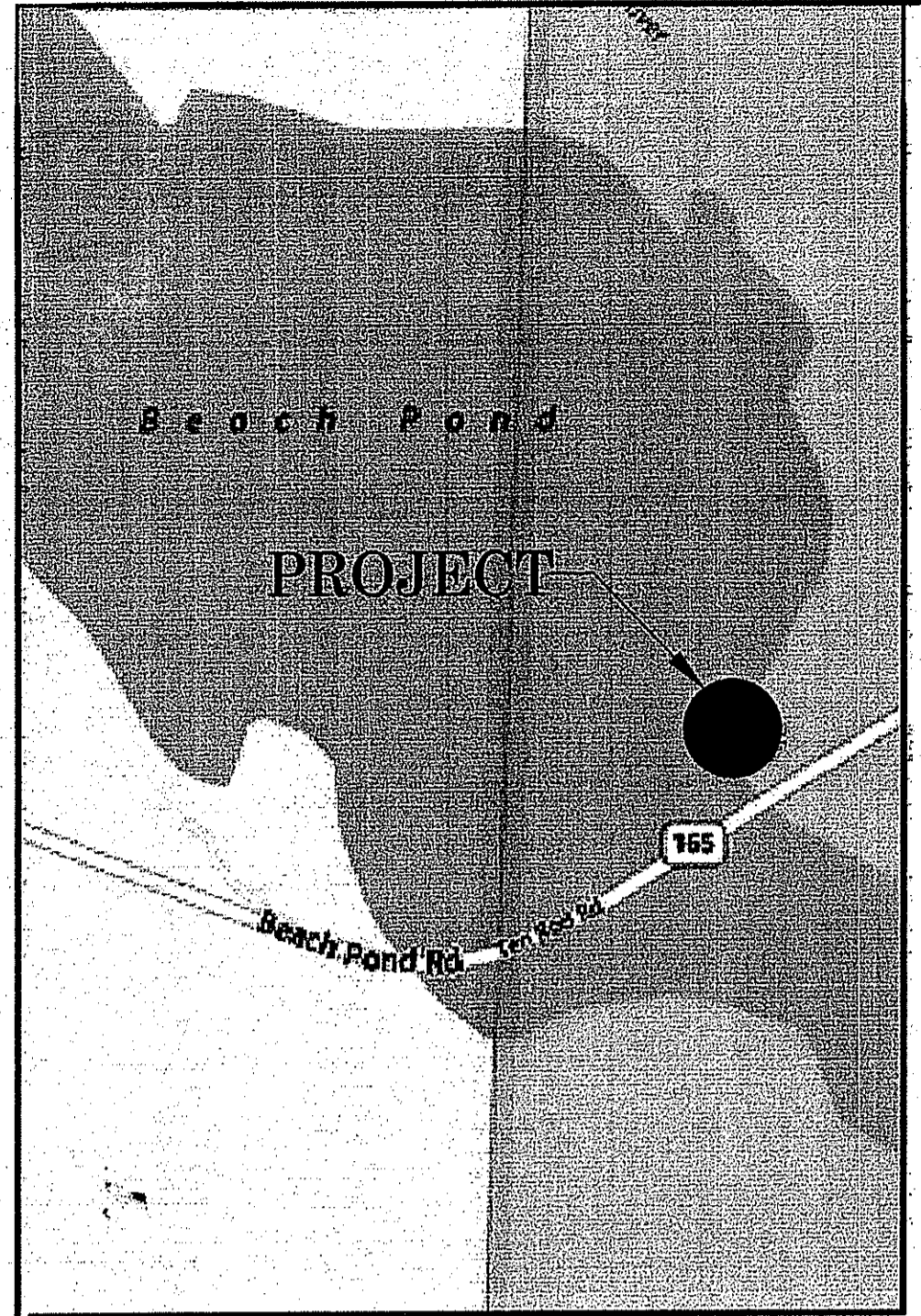
FRESHWATER ACCESS SITE

BEACH POND

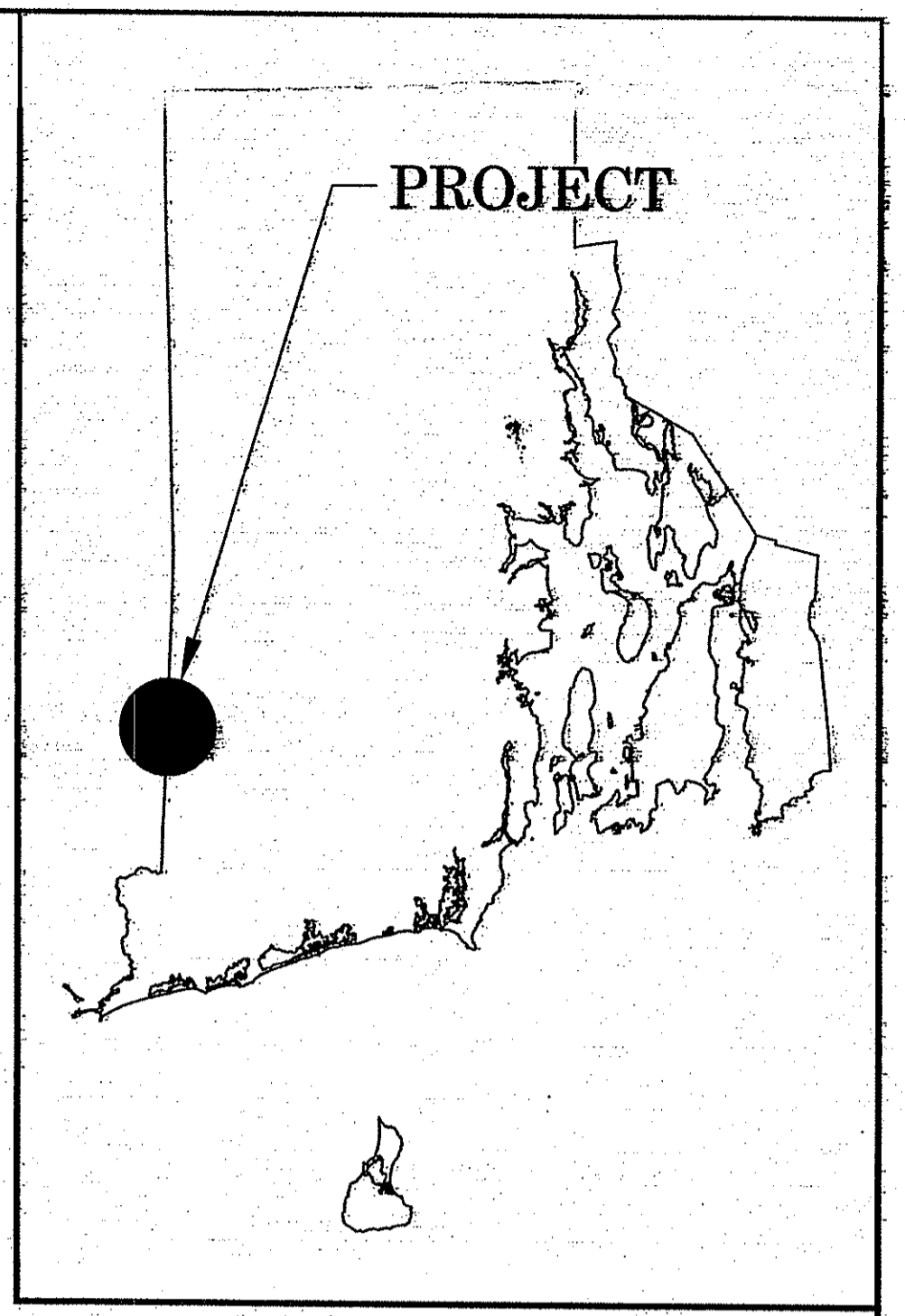
EXETER, RHODE ISLAND

P&D CONTRACT NUMBER 3276782

DATE: SEPTEMBER 2013



LOCUS MAP
NOT TO SCALE



PROJECT LOCATION

- LIST OF DRAWINGS**
TITLE SHEET
 C1 - EXISTING CONDITIONS
 C2 - PROPOSED CONDITIONS
 C3 - BOAT RAMP PROFILE
 C4 - SESC PLAN
 S1 - BOAT RAMP SLAB DETAILS -1
 S2 - BOAT RAMP SLAB DETAILS -2
 S3 - STEEL GUIDEWAY SYSTEM DETAILS
 S4 - WOOD FLOATS
 S5 - STRUCTURAL DRAWING
 L1 - LANDSCAPE PLAN
 L2 - LANDSCAPE DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 SHOWN IN THE LETTER OF APPROVAL
 NOV 14 2013 FILE # 13-0164
 WORKS ALLOWED WITHOUT PRIOR APPROVAL
 UNLESS PLANS MUST BE AT CONSTRUCTION SITE

Charles A. [Signature]

SEP 17 2013
 Office of Water

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 WETLANDS PROGRAM
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 FILE #
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APPROVED BY _____
 RIDEM DIRECTOR

APPROVED BY _____
 RIDEM ASSOCIATE DIRECTOR

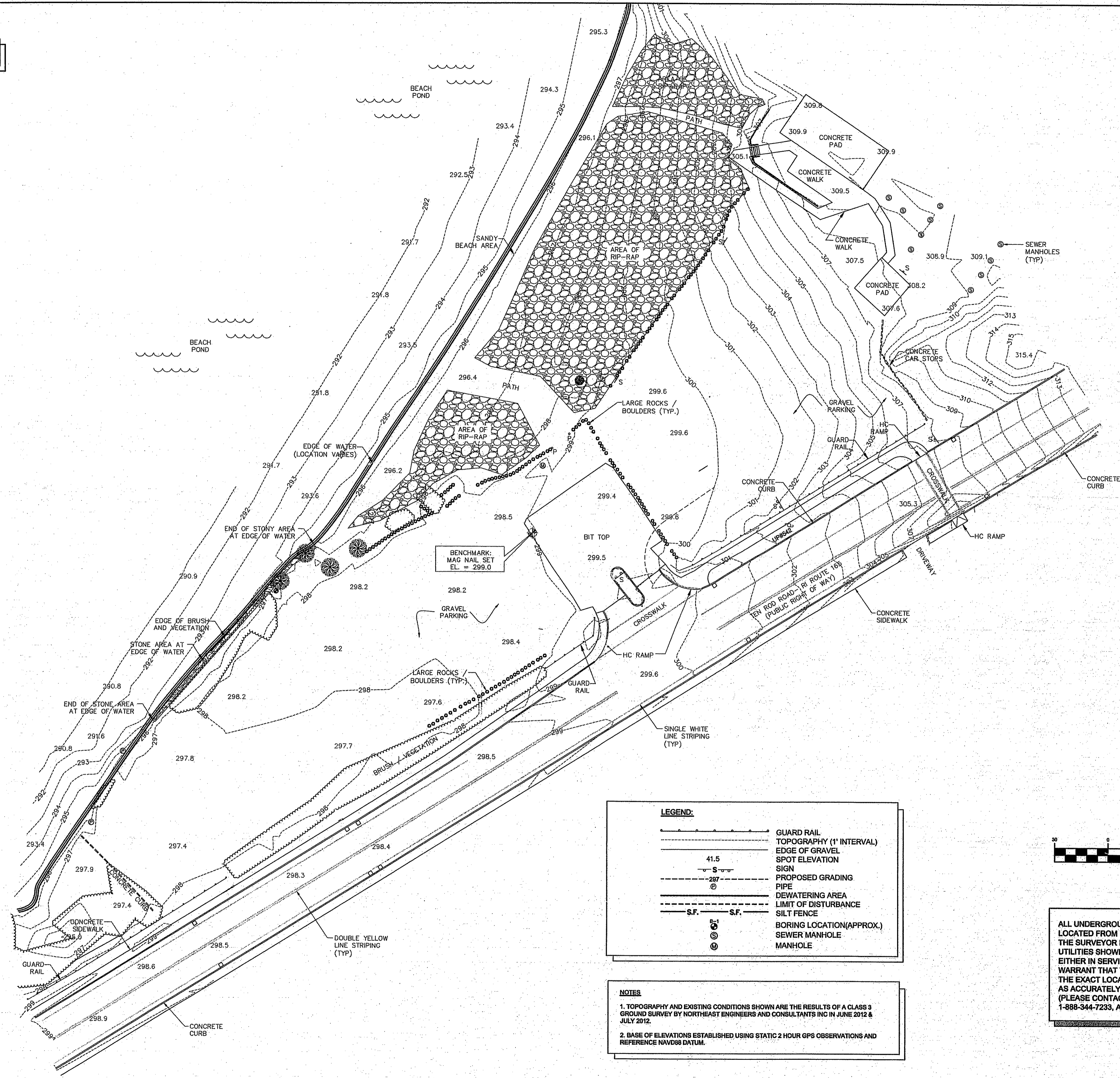
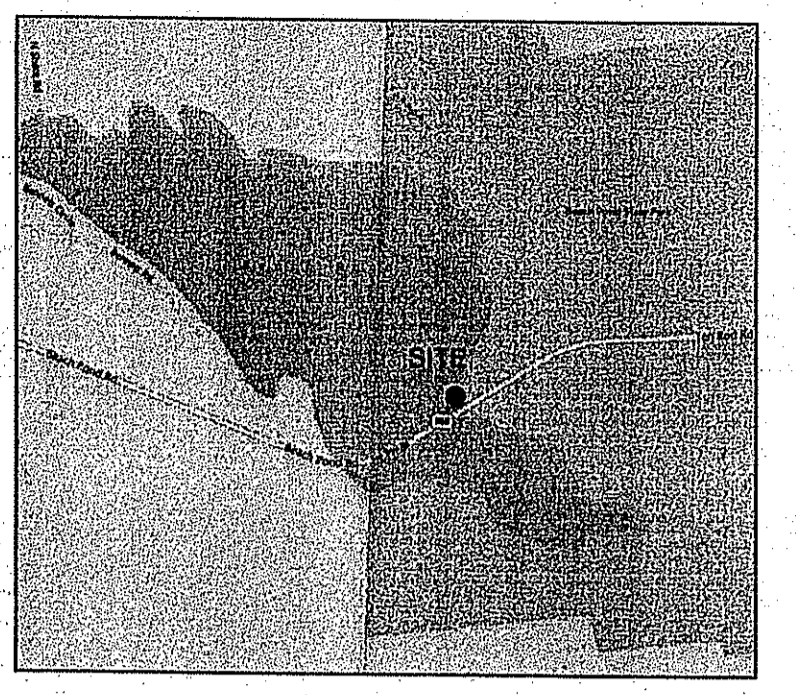
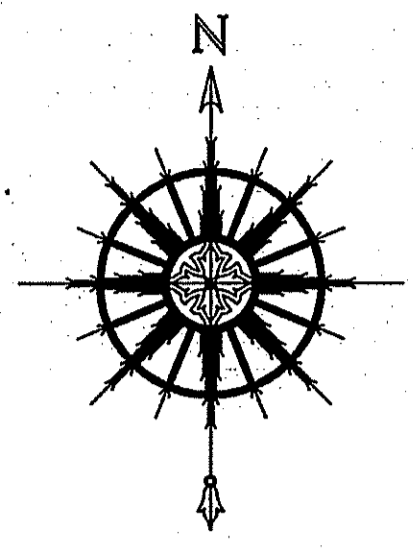
APPROVED BY _____
 RIDEM CHIEF, DIVISION PLANNING & DEVELOPMENT

APPROVED BY _____
 RIDEM CHIEF, OPERATING DIVISION

DANIEL E. SZYMANSKI
 No. 8808
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
 7-13-13

THIS SHEET IS PART OF THE CONTRACT DOCUMENTS WHICH INCLUDES ALL DRAWINGS IN THE PLAN SET AND THE SPECIFICATIONS

NORTH ARROW TAKEN FROM STATIC 2 HOUR GPS OBSERVATION AND REFERENCES NAD 83, GRID NORTH

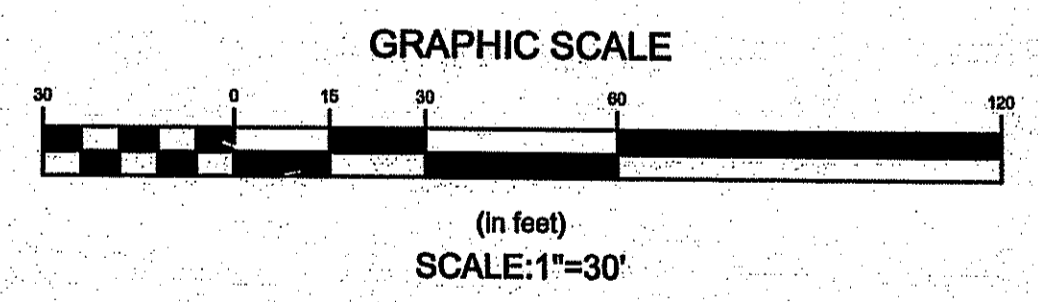


LEGEND:

	GUARD RAIL
	TOPOGRAPHY (1' INTERVAL)
	EDGE OF GRAVEL
	SPOT ELEVATION
	SIGN
	PROPOSED GRADING
	PIPE
	DEWATERING AREA
	LIMIT OF DISTURBANCE
	SILTY FENCE
	BORING LOCATION (APPROX.)
	SEWER MANHOLE
	MANHOLE

NOTES

1. TOPOGRAPHY AND EXISTING CONDITIONS SHOWN ARE THE RESULTS OF A CLASS 3 GROUND SURVEY BY NORTHEAST ENGINEERS AND CONSULTANTS INC IN JUNE 2012 & JULY 2012.
2. BASE OF ELEVATIONS ESTABLISHED USING STATIC 2 HOUR GPS OBSERVATIONS AND REFERENCE NAVD83 DATUM.



ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES)

DEPT. OF ENVIRONMENTAL MANAGEMENT
BUREAU OF WATER RESOURCES
WETLANDS PROGRAM
ISSUED WITH CONDITIONS
AS SET FORTH IN THE LETTER OF APPROVAL
NOV 14 2013 FILE # 13-0164
NOT ALLOWED WITHOUT PRIOR APPROVAL
AND PLANS MUST BE AT CONSTRUCTION SITE

Charles A. [Signature]
SEP 17 2013

ROGER F. LIZOTTE
1826
PROFESSIONAL LAND SURVEYOR
9/13/13

No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

NORTHEAST ENGINEERS & CONSULTANTS, INC.
NE & CO
A KNOWLEDGE CORPORATION

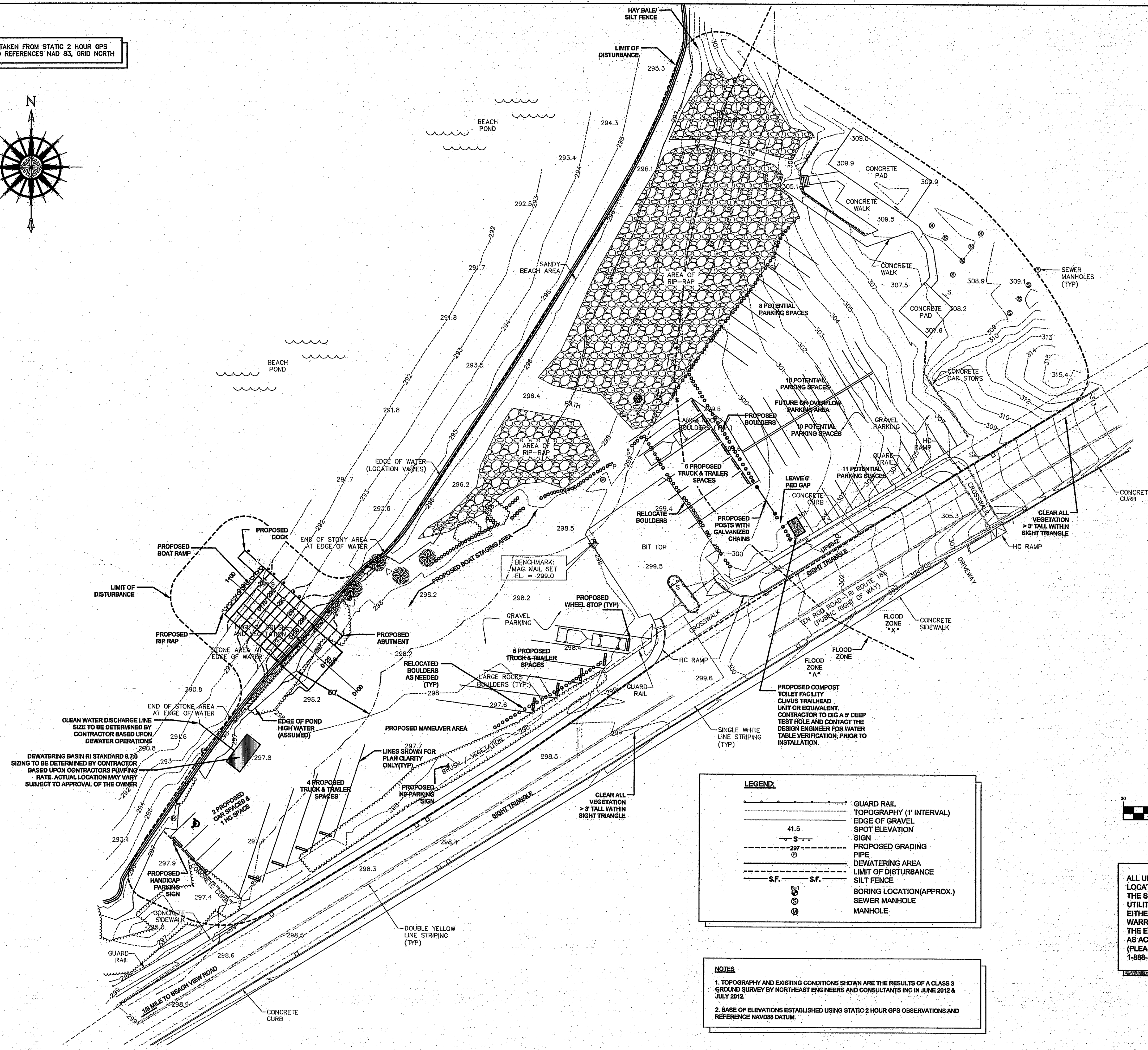
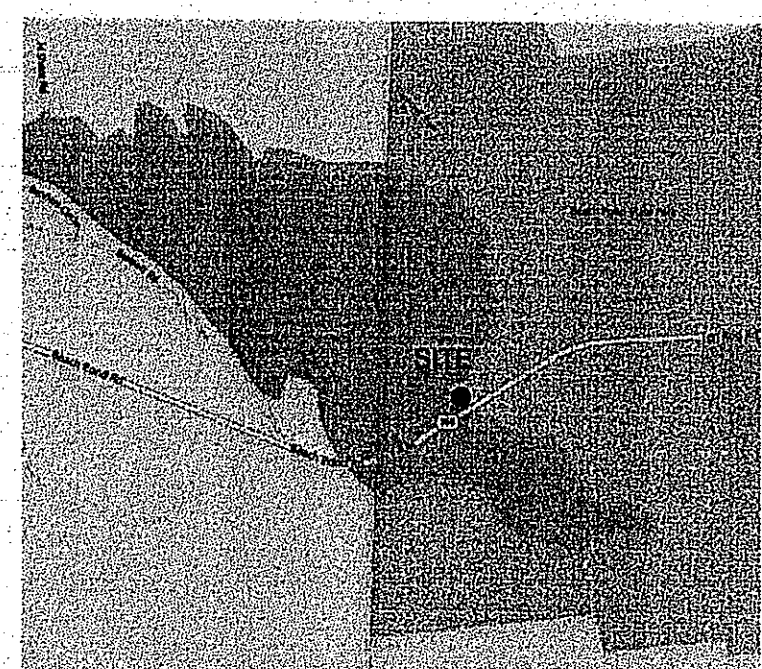
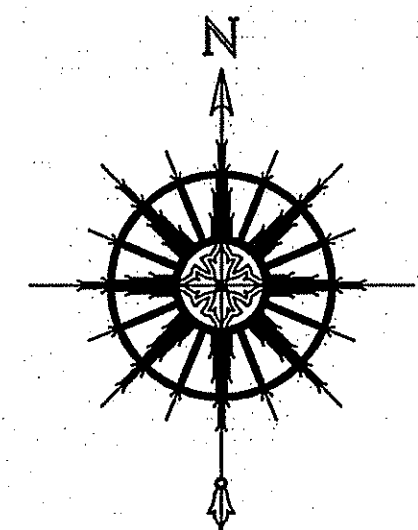
BEACH POND
FRESHWATER ACCESS SITE
EXETER, RI

Design by: DS
Drawn by: PDR
Checked by: [Signature]
Date: MAY 2013
Scale: 1" = 30'
Project No.: 12018.0

EXISTING
CONDITIONS

C1
SHEET 2 OF 12

NORTH ARROW TAKEN FROM STATIC 2 HOUR GPS OBSERVATION AND REFERENCES NAD 83, GRID NORTH



PARKING SPACES

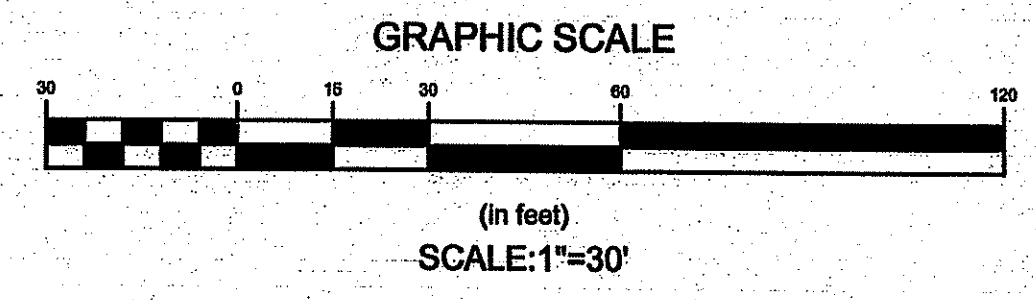
HANDICAP SPACES = 1
OVERFLOW CAPACITY = 39
TRUCK & TRAILER SPACES = 15
CAR = 2
TOTAL SPACES = 67

LEGEND:

	GUARD RAIL
	TOPOGRAPHY (1' INTERVAL)
	EDGE OF GRAVEL
	SPOT ELEVATION
	SIGN
	PROPOSED GRADING
	PIPE
	DEWATERING AREA
	LIMIT OF DISTURBANCE
	SILT FENCE
	BORING LOCATION (APPROX.)
	SEWER MANHOLE
	MANHOLE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
BUREAU OF WATER RESOURCES
WETLANDS PROGRAM
WITH CONDITIONS
LETTER OF APPROVAL
NOV 14 2013 FILE # 13-0164
ALLOWED WITHOUT PRIOR APPROVAL
AND PLANNING MUST BE AT CONSTRUCTION SITE

Charles A. [Signature]

SEP 17 2013

No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

NORTHEAST ENGINEERS & CONSULTANTS, INC.

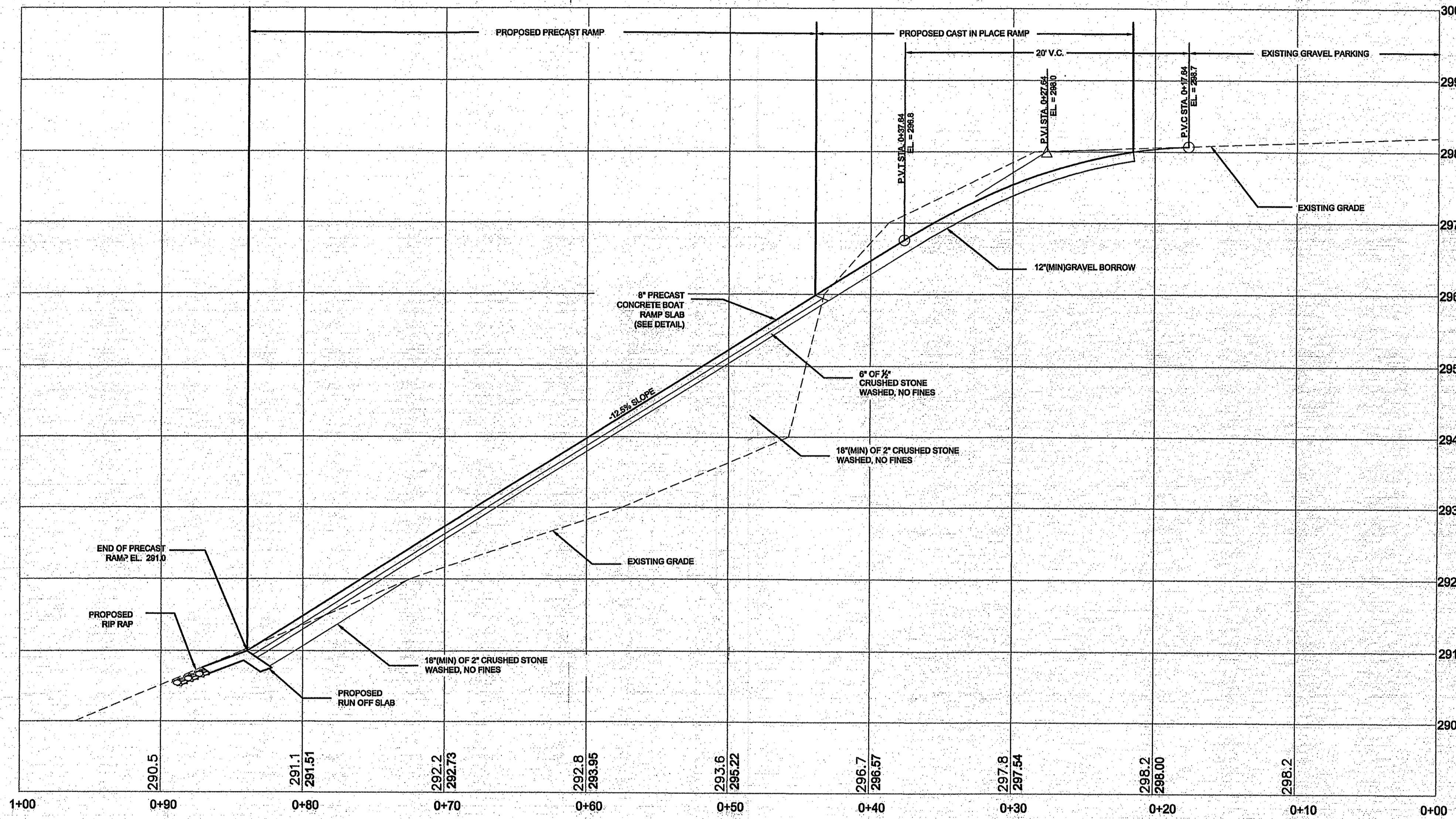
BEACH POND
FRESHWATER ACCESS SITE
EXETER, RI

Design by: DS
Drawn by: PDR
Checked by: [Signature]
Date: AUGUST 2013
Scale: 1" = 30'
Project No.: 12018.0

DANIEL E. SZYMANSKI
No. 8808
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

PROPOSED CONDITIONS

C2
SHEET OF 12



PROFILE
 SCALE: 1" = 5' HORIZ
 1" = 1' VERT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 FRESHWATER RESOURCES
 WETLANDS PROGRAM
 WITH CONDITIONS
 LETTER OF APPROVAL
 NOV 14 2013 FILE # 13-0164
 ALLOWED WITHOUT PRIOR APPROVAL
 ALL PLANS MUST BE AT CONSTRUCTION SITE

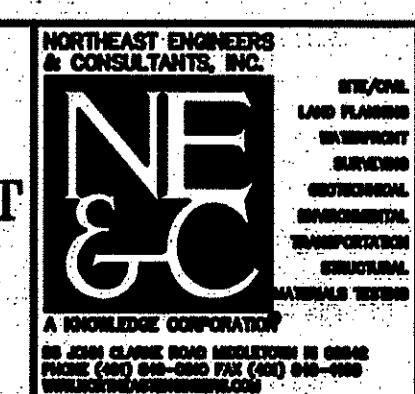
SEP 17 2013

No.	Description	Date

REVISIONS:

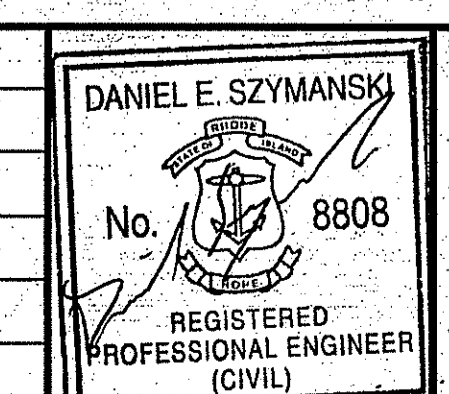


STATE OF RHODE ISLAND
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF PLANNING AND DEVELOPMENT



BEACH POND
 FRESHWATER ACCESS SITE
 EXETER, RI

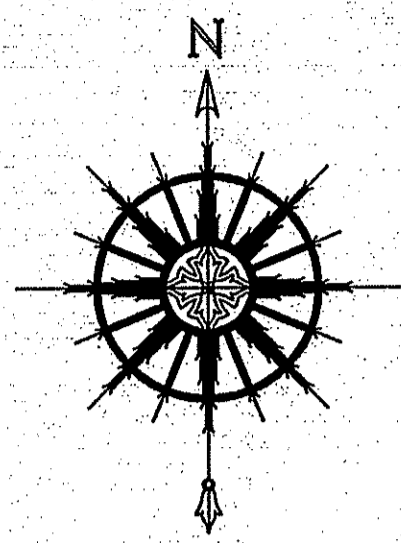
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 Checked by: [Signature]
 Date: MAY 2013
 Scale: AS NOTED
 Project No.: 12018.0



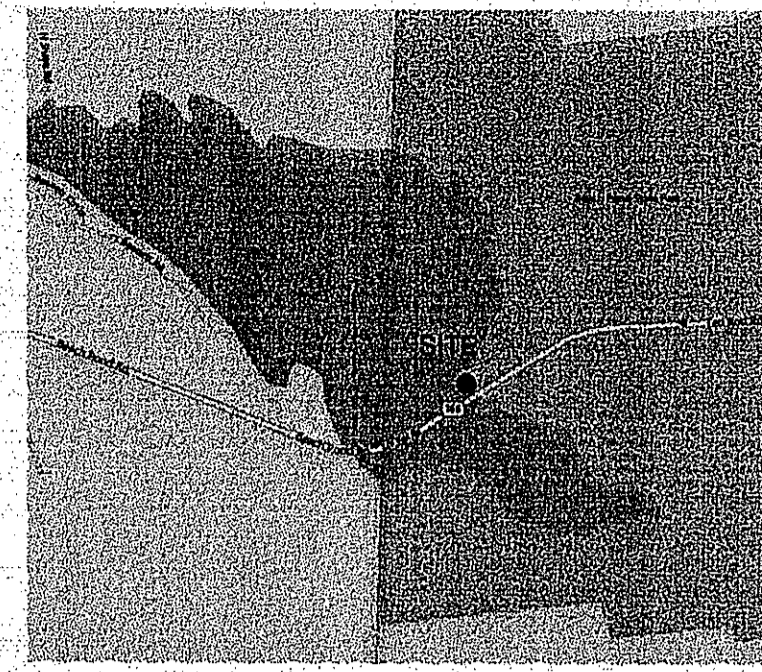
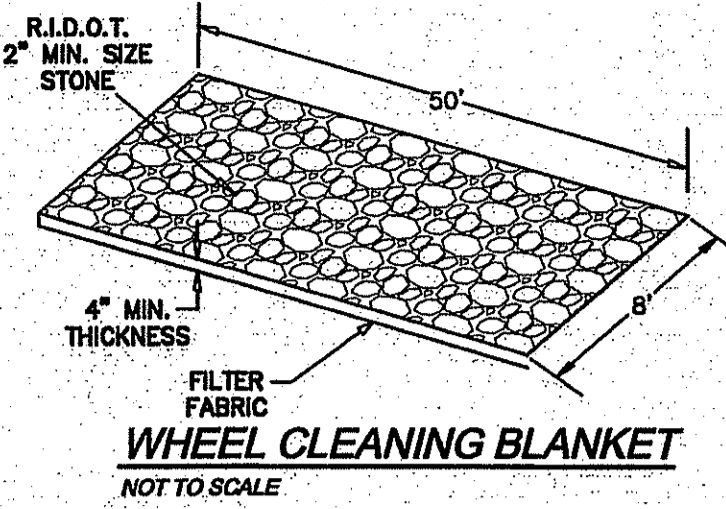
BOAT RAMP
 PROFILE

C3
 SHEET 4 OF 12

NORTH ARROW TAKEN FROM STATIC 2 HOUR GPS OBSERVATION AND REFERENCES NAD 83, GRID NORTH



NOTES
 1. TOPOGRAPHY AND EXISTING CONDITIONS SHOWN ARE THE RESULTS OF A CLASS 3 GROUND SURVEY BY NORTHEAST ENGINEERS AND CONSULTANTS INC IN JUNE 2012, & JULY 2012.
 2. BASE OF ELEVATIONS ESTABLISHED USING STATIC 2 HOUR GPS OBSERVATIONS AND REFERENCE NAVD83 DATUM.

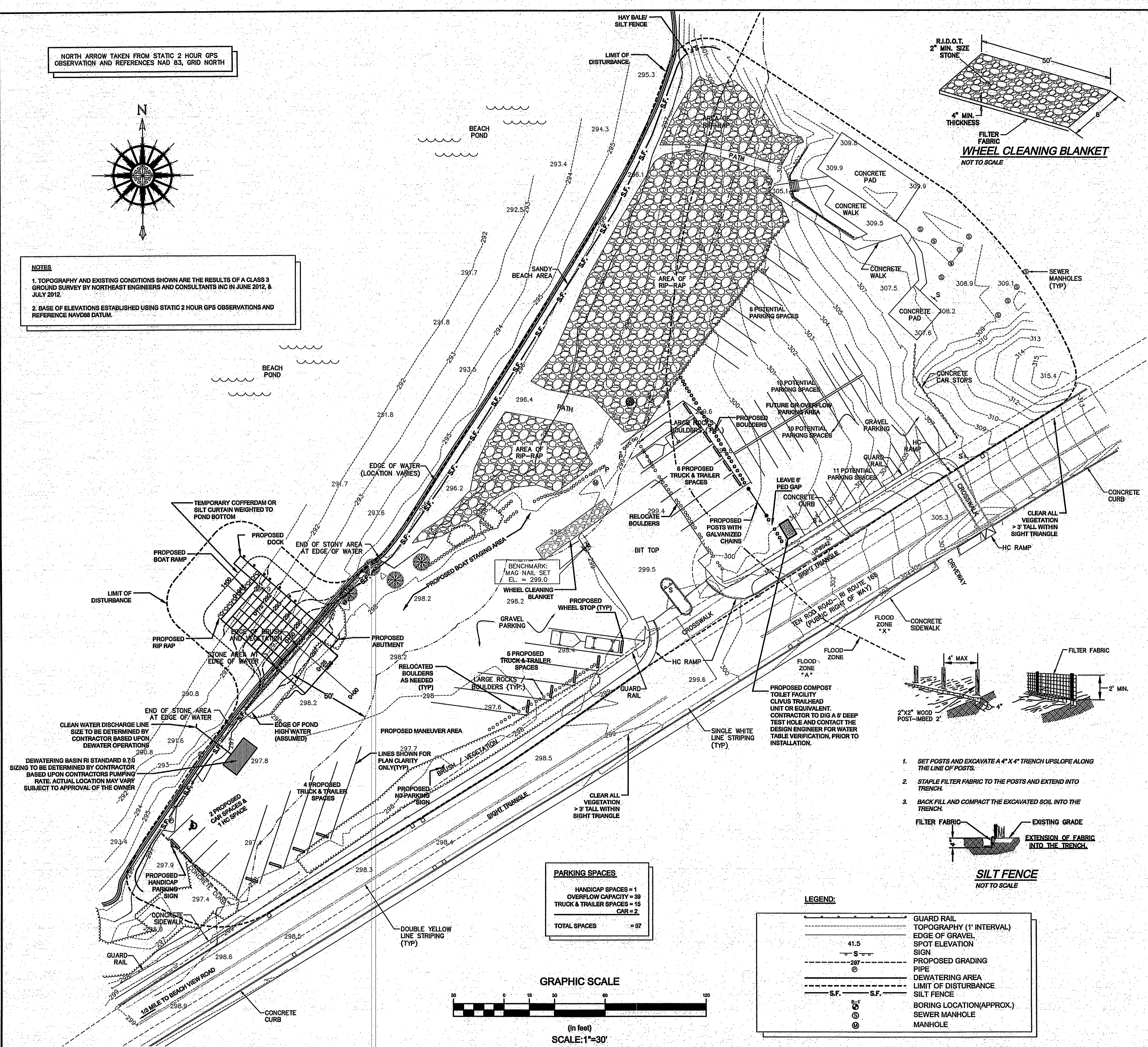


EROSION CONTROL NOTES

- CONSTRUCTION SEQUENCE:**
 - DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED AND RECEIVED.
 - CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE PAVED ENTRANCES.
 - INSTALL SILT FENCES AND/OR HAY BALES AS INDICATED ON THE DRAWINGS TO CONTROL EROSION AND PREVENT SEDIMENT CONTAMINATION OF POND PRIOR TO ANY EARTH MOVING ACTIVITIES.
 - START CONSTRUCTION.
- GENERAL NOTES:**
 - DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
 - ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
 - ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS.
 - ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 12" IN THICKNESS.
 - FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
 - FROZEN, SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.
 - FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
 - SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING.
 - REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- MAINTENANCE:**

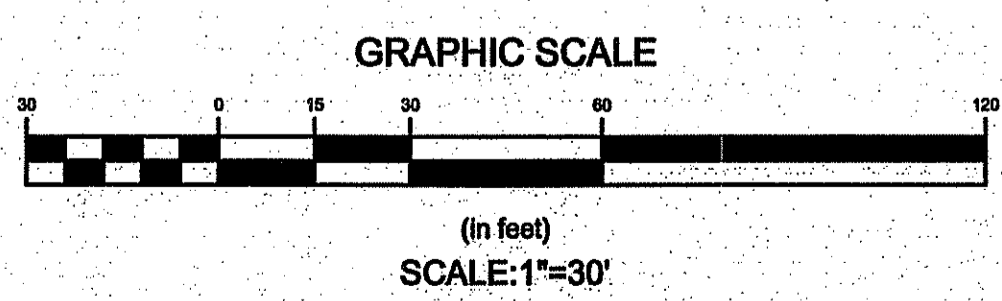
DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, THE CONTRACTOR WILL CONDUCT INSPECTIONS OF THE EROSION CONTROL MEASURES.

- SILT FENCES AND HAY HOLES SHALL BE INSPECTED AS INDICATED IN THE DETAILS. AT A MINIMUM THE SILT FENCING AND HAY HOLES SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND/OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.
- SEEDED AREAS WILL BE FERTILIZED AND RESEED AS NECESSARY TO INSURE ESTABLISHMENT OF VEGETATION.



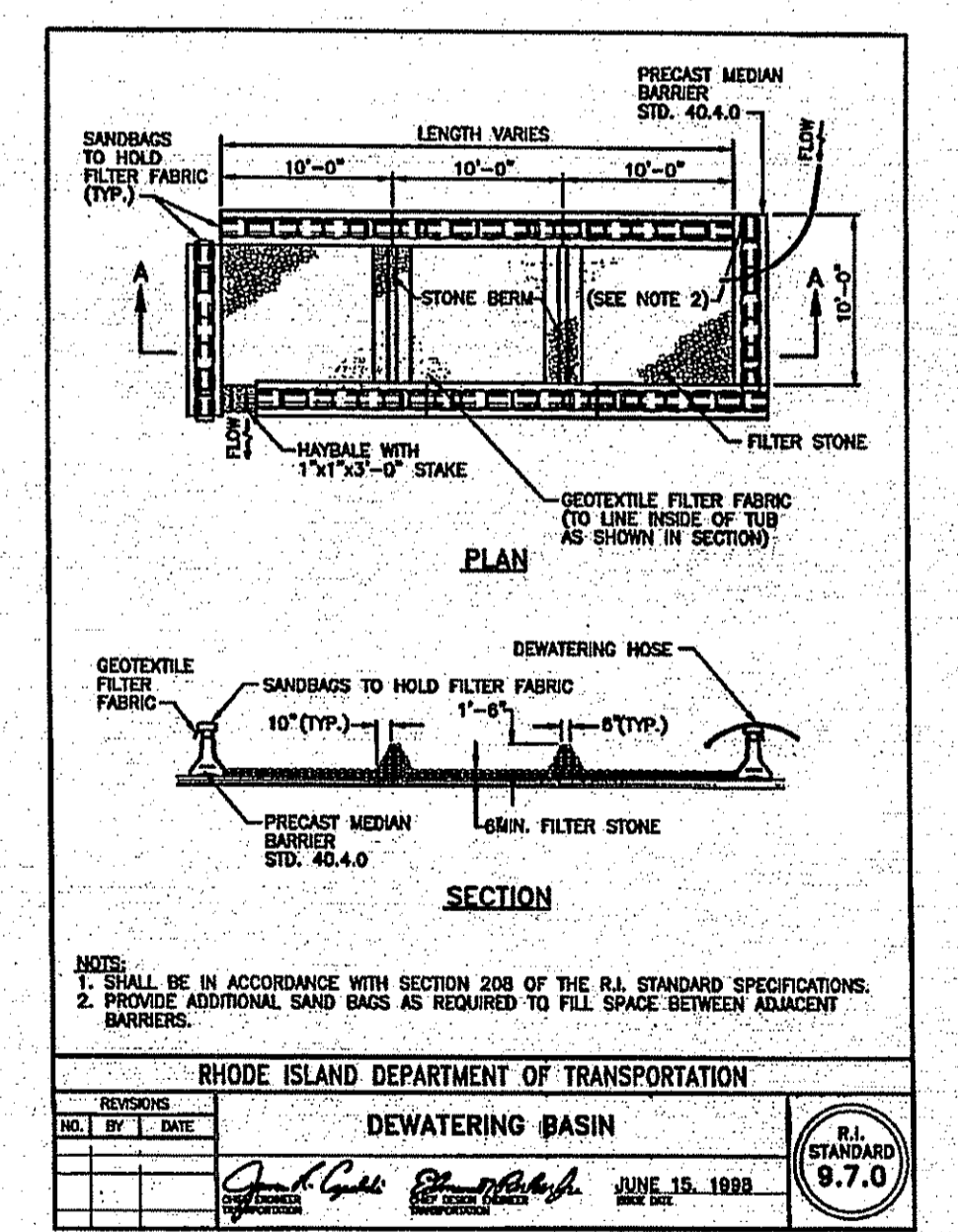
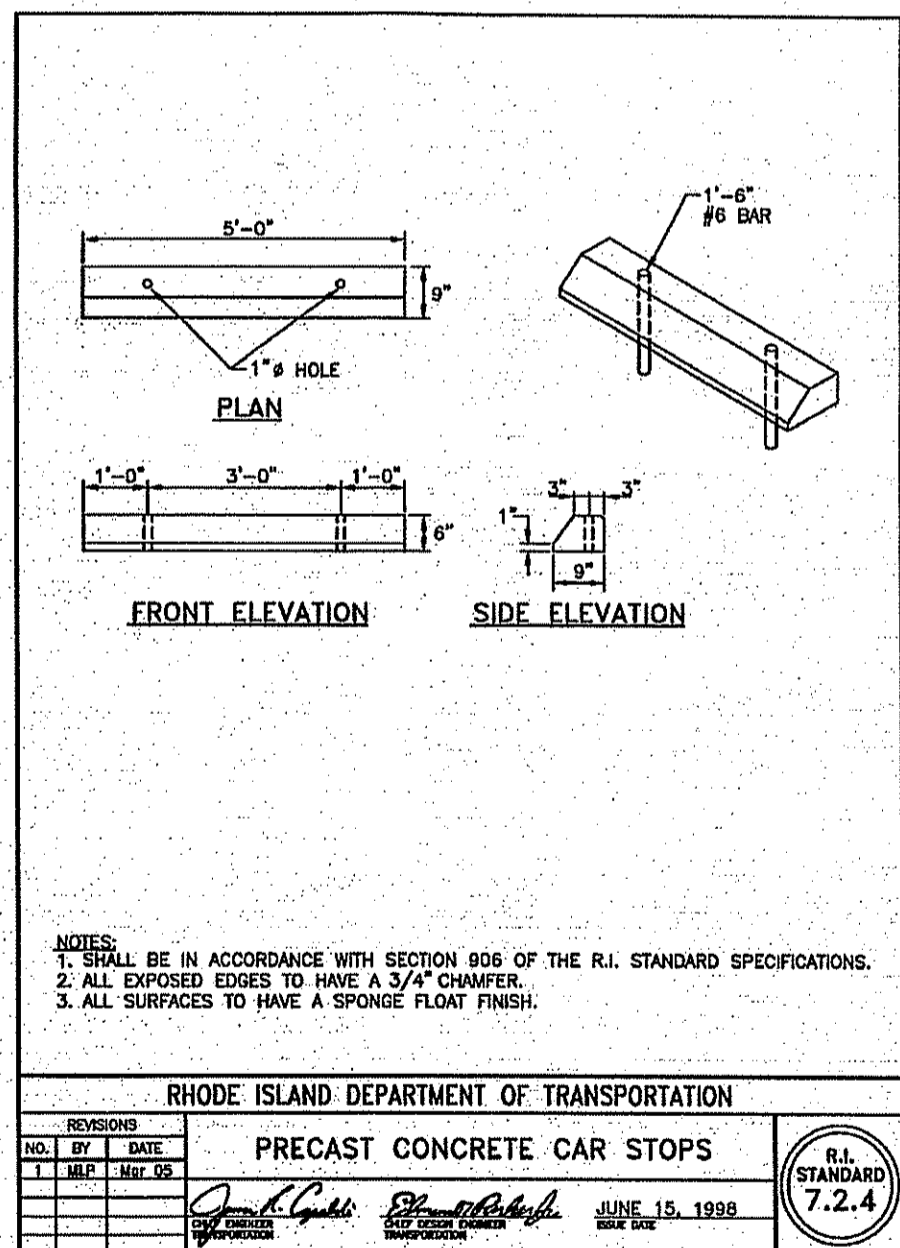
PARKING SPACES

HANDICAP SPACES = 1
OVERFLOW CAPACITY = 58
TRUCK & TRAILER SPACES = 15
CAR = 2
TOTAL SPACES = 67



LEGEND:

--- (dashed line)	GUARD RAIL
--- (dashed line)	TOPOGRAPHY (1' INTERVAL)
--- (dashed line)	EDGE OF GRAVEL
--- (dashed line)	SPOT ELEVATION
--- (dashed line)	SIGN
--- (dashed line)	PROPOSED GRADING
--- (dashed line)	PIPE
--- (dashed line)	DEWATERING AREA
--- (dashed line)	LIMIT OF DISTURBANCE
--- (dashed line)	SILT FENCE
--- (dashed line)	BORING LOCATION (APPROX.)
--- (dashed line)	SEWER MANHOLE
--- (dashed line)	MANHOLE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV 11 2013 FILE # 13-014
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION

No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF PLANNING AND DEVELOPMENT

NORTHEAST ENGINEERS & CONSULTANTS, INC.

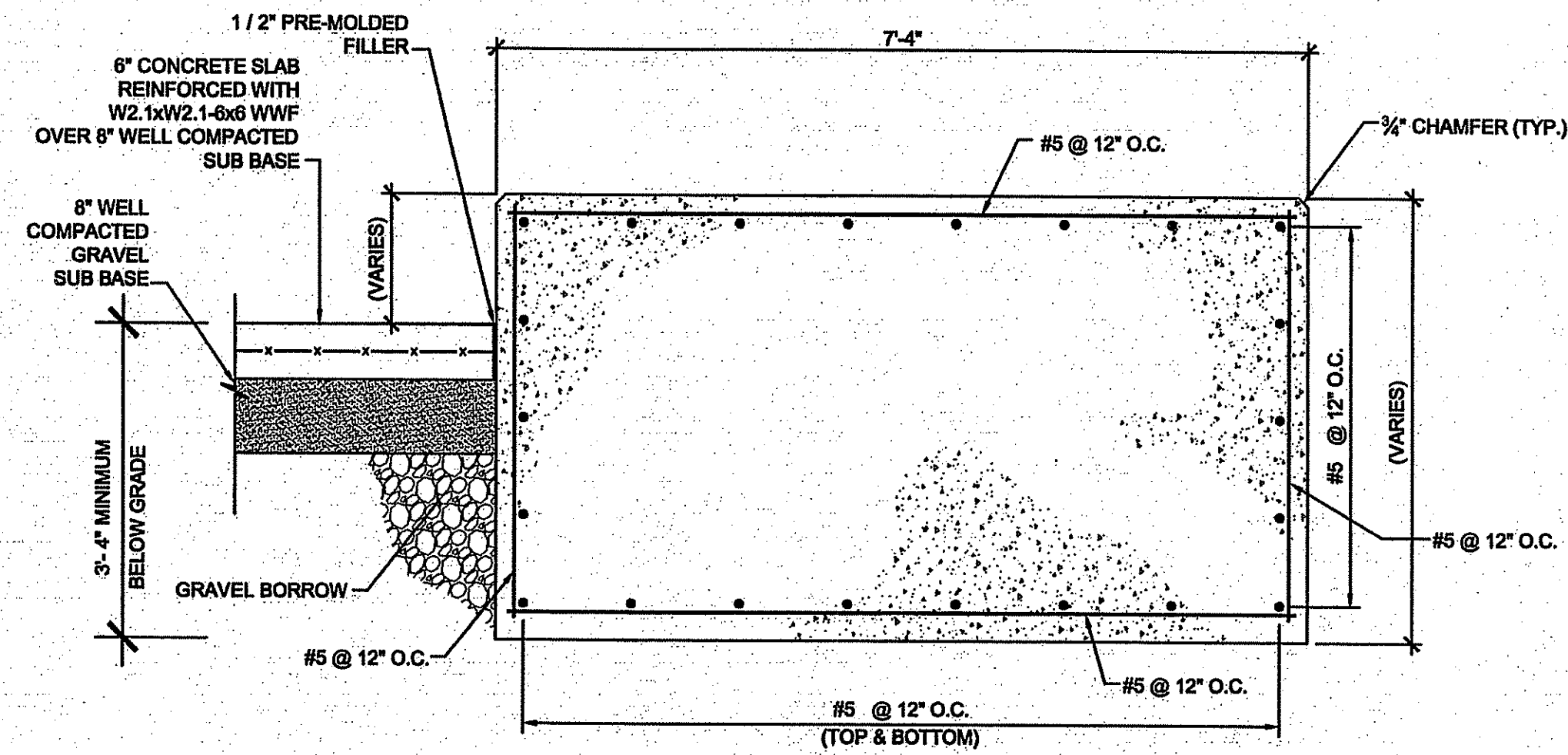
BEACH POND
 FRESHWATER ACCESS SITE
 EXETER, RI

Design by: DS
 Drawn by: PDR
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 Scale: 1" = 30'
 Project No.: 12018.0

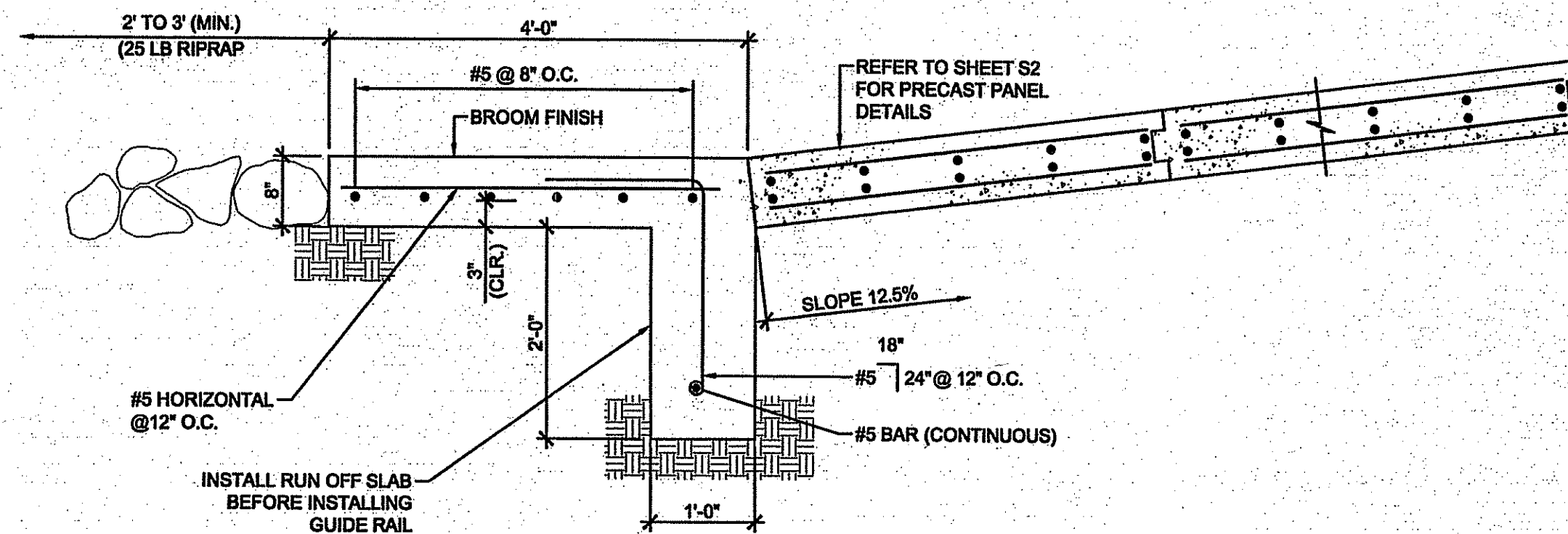
DANIEL E. SZYMANSKI
 No. 6808
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SESC PLAN

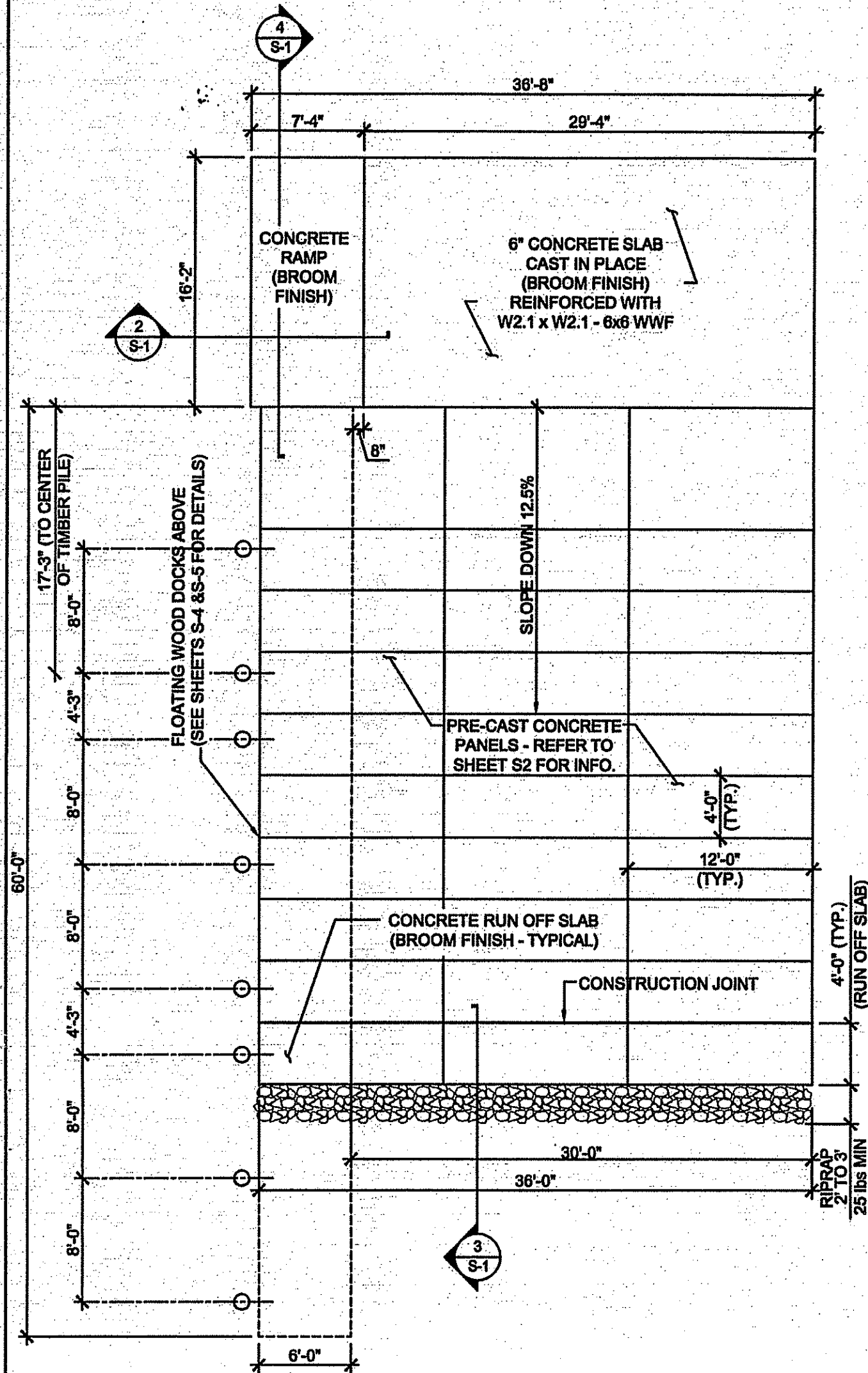
C4
 SHEET 4 OF 12



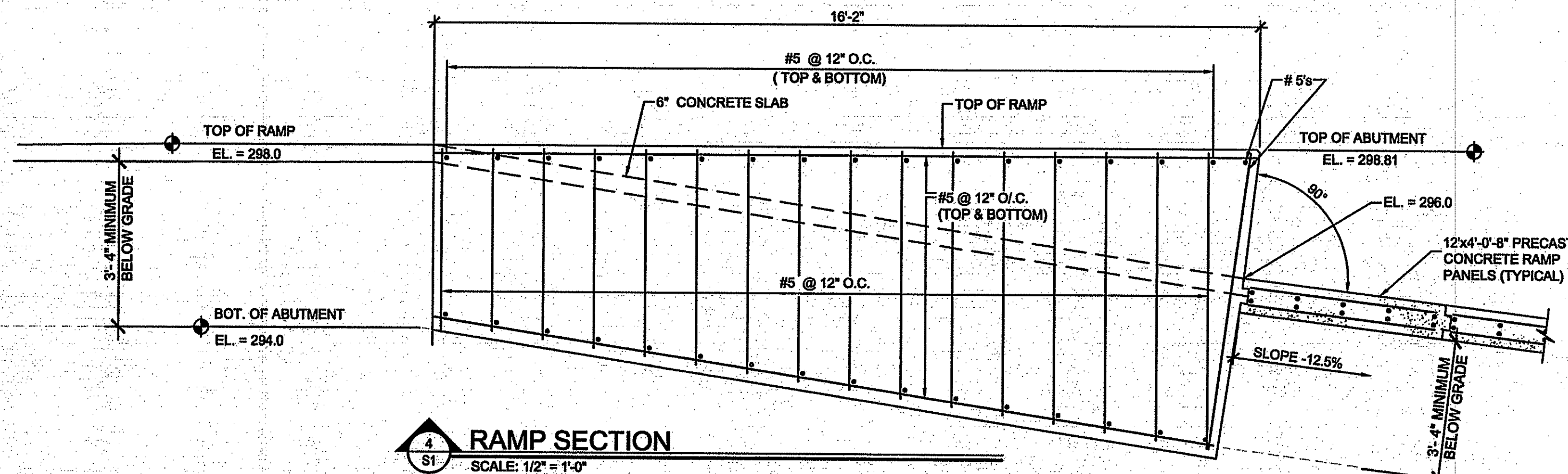
RAMP SECTION
SCALE: 3/4" = 1'-0"



PRECAST - RUN OFF SLAB DETAIL
SCALE: 3/4" = 1'-0"



RAMP PLAN
SCALE: 1/8" = 1'-0"



RAMP SECTION
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. ALL STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF RHODE ISLAND BUILDING CODE AND O.S.H.A. CODE.
2. CONDITIONS ENCOUNTERED IN THE FIELD NOT COVERED BY THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
4. ALL SECTIONS, DETAILS, NOTES, METHODS, OR MATERIALS SHOWN AND/OR NOTED ON ANY PLAN, SECTION OR ELEVATION SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS OTHERWISE NOTED.
5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, HEATING AND VENTILATING, PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS AND SPECIFICATIONS, AND THESE DRAWINGS SHALL BE REFERRED TO FOR SIZE AND LOCATION OF OPENINGS, VENTS, PIPES, INSERTS, HANGERS, ECT.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301-02 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. ACI 301-08 SHALL GOVERN.
2. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 4000 PSL. PROVIDE 5% AIR ENTRAINED CONCRETE. SUBMIT CONCRETE DESIGN MIX FOR APPROVAL.
3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60 - EPOXY COATED, AND SHALL BE DEFORMED, UNLESS NOTED OTHERWISE ON THE DRAWINGS. LAP ALL CONTINUOUS BARS 40 DIAMETERS. PROVIDE MATCHING CORNER AND INTERSECTION BARS.
4. MINIMUM PROTECTIVE COVER FOR REINFORCEMENTS UNLESS OTHERWISE PROVIDED FOR:
 - A. CONCRETE PLACED AGAINST EARTH, 3".
 - B. FORMED CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER, 2".
 - C. FLOORS ON SAND, GRAVEL OR STONE FILL, 1-1/2".
5. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE MECHANICAL, PLUMBING, ELECTRICAL AND ARCHITECTURAL DRAWINGS. THESE DRAWINGS SHALL BE REFERRED TO FOR SIZE AND LOCATION OF OPENINGS.
6. PROVIDE BAR SUPPORTS, SPACERS AND ACCESSORIES RECOMMENDED BY THE ACI DETAILING MANUAL. ALL DETAILING NOT COVERED BY THESE NOTES SHALL BE IN ACCORDANCE WITH THE SAME MANUAL.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE THIRTEENTH EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL FOR BUILDINGS". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 - A. PLATES: ASTM A 36 Fy = 36 KSI
 - B. BOLTS: A325
 - C. ANCHOR BOLTS: ASTM F1554 ROD GRADE 55
2. ALL SHOP CONNECTIONS SHALL BE WELDED TO CONFORM TO SPECIFICATION ASTM A 233, E70 SERIES OR BOLTED TO CONFORM TO ASTM A 325.
3. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL HAVE A MINIMUM OF TWO 3/4" DIAMETER BOLTS TO CONFORM TO ASTM A 325.
4. ALL STEEL EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED.
5. CONTRACTOR SHALL PROVIDE ALL BRACING AND GUYS FOR STRUCTURAL STEEL DURING CONSTRUCTION TO INSURE STABILITY OF BUILDING AND PLUMBNESS OF COLUMNS. IN ADDITION, PROVIDE INSPECTIONAL REPORTS ON PROPER PLUMBNESS OF ALL STEEL.

TIMBER NOTES:

1. STRESS-GRADE LUMBER SHALL BE IN ACCORDANCE WITH "NATIONAL DESIGN SPECIFICATIONS FOR STRESS-WOOD CONSTRUCTION" BY THE AMERICAN FOREST & PAPER ASSOCIATION (LATEST REVISION).
2. BEAMS, JOISTS, POSTS AND STUDS SHALL BE AS SHOWN BELOW OR APPROVED EQUAL OR BETTER:

MEMBER	SPECIES/GRADE NO.	MINIMUM ALLOWABLES (PSI)			
		Fb	Fy	Fc	E
2x8 JOISTS	SOUTHERN PINE No.1	1,500	175		1,200,000
2x10 JOISTS	SOUTHERN PINE No.1	1,350	175		1,700,000
4x4 POSTS	SOUTHERN PINE No.2	1,250	175	1,650	1,600,000
4x6 POSTS	SOUTHERN PINE No.2	1,250	175	1,650	1,600,000
2x6 DECKING	SPRUCE PINE FIR No.2	1,200	175		1,600,000
3. PROVIDE STANDARD SADDLES WHERE MEMBERS ARE FLUSH FRAMED.
4. ALL TIMBER TO BE PRESSURE TREATED WITH ACQ TYPE B TO A RETENTION OF 40 LB/FT³.
5. ALL CONNECTION HARDWARE MUST BE GALVANIZED.

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No.	Description	Date

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

NORTHEAST ENGINEERS & CONSULTANTS, INC.
A KNOWLEDGE CORPORATION

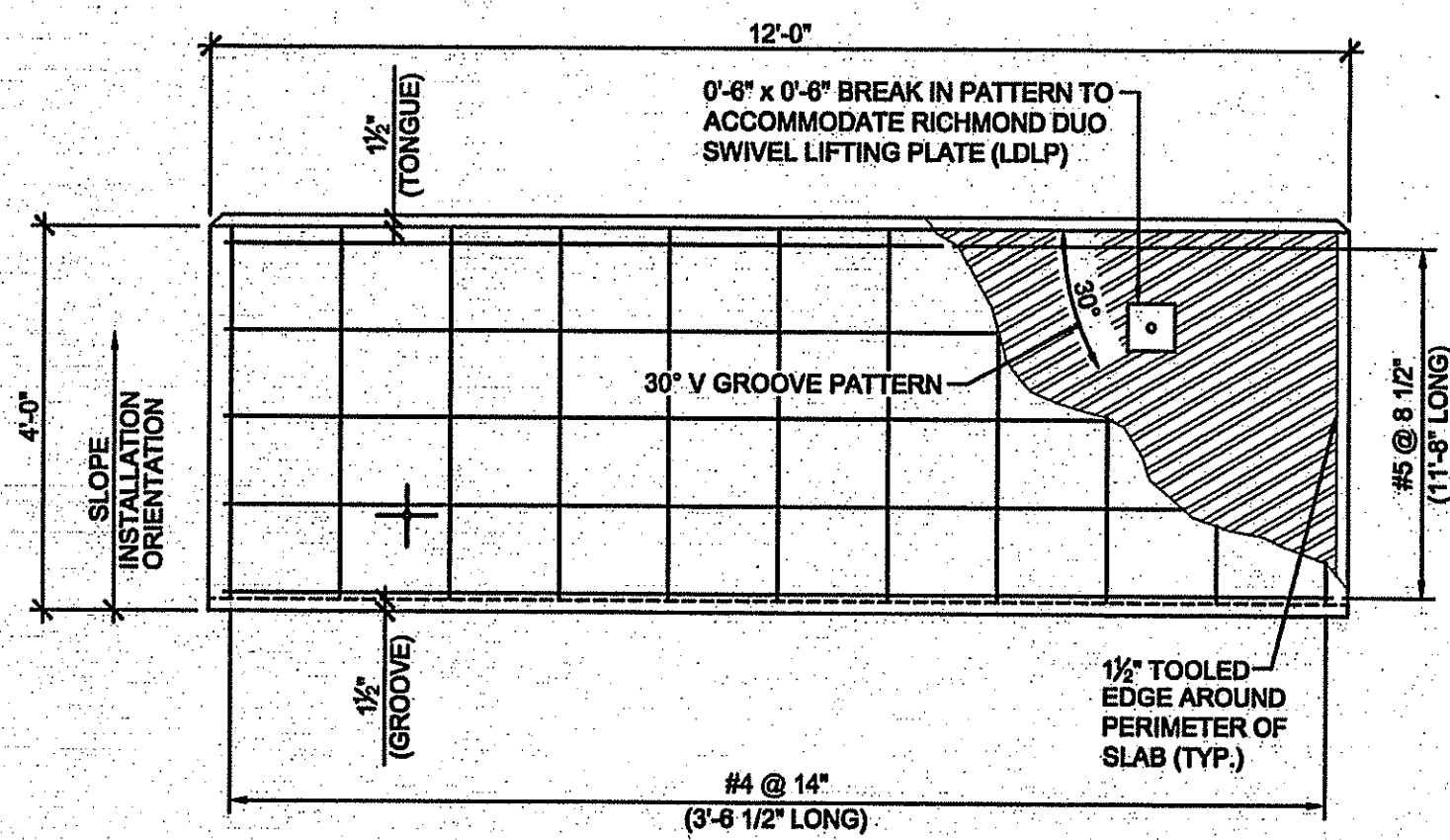
BEACH POND
FRESHWATER ACCESS
SITE

Design by: DL
Drawn by: PDR
Checked by:
Date: MAY 2013
Scale: AS NOTED
Project No.: 12018.0

DONALD M. LEFFERT
REGISTERED PROFESSIONAL ENGINEER
6730

BOAT RAMP
SLAB DETAILS - 1

S1
SEP 17
SHEET 6 OF 12

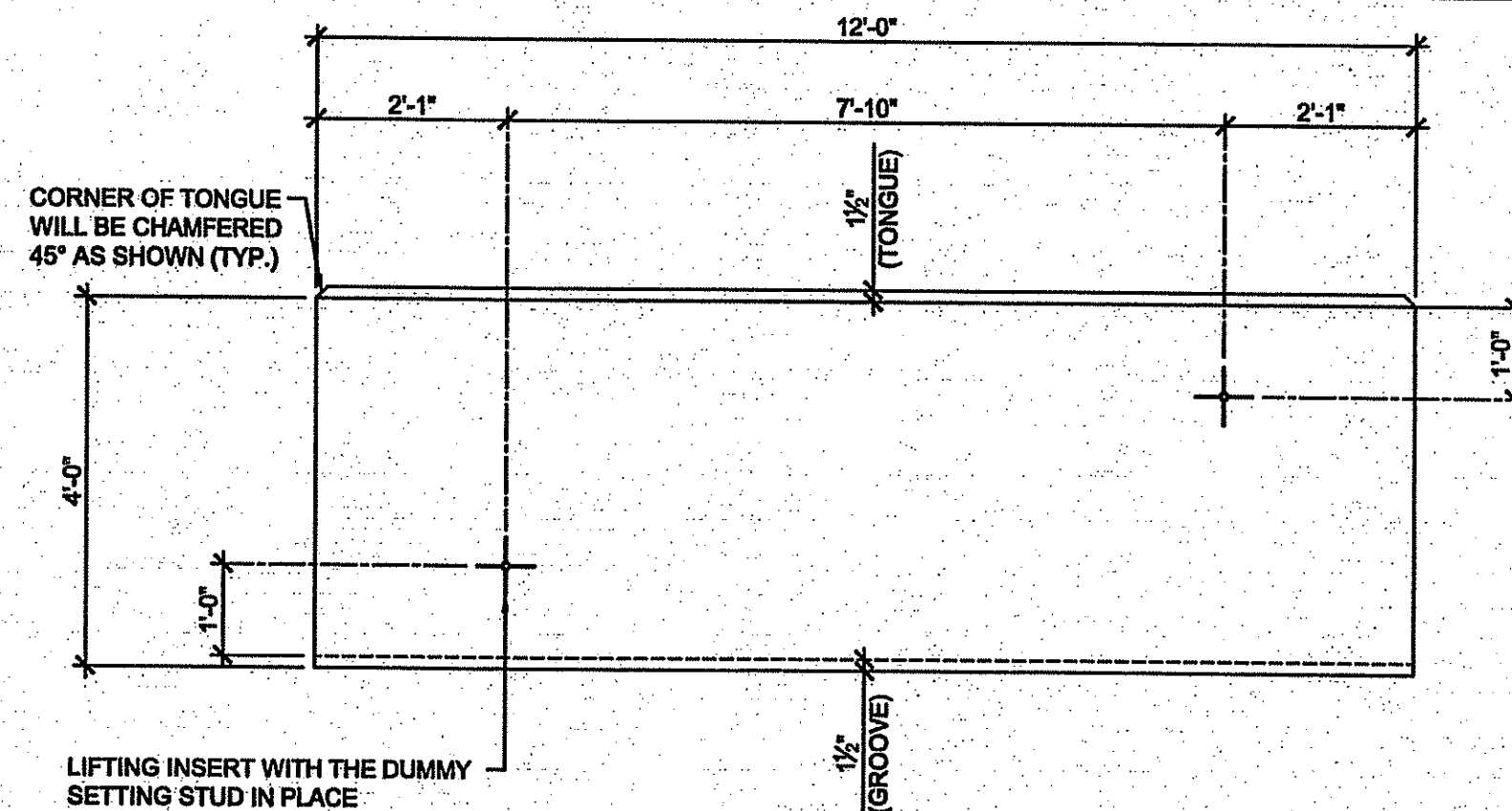


1 PRE-CAST CONCRETE PANEL - PLAN VIEW

SCALE: 1/2" = 1'-0"

NOTES:

- 30° V-GROOVE PATTERN SHALL BE ALIGNED IN EACH FORM SO THAT THE PATTERN IS CONTINUOUS FROM SLAB TO SLAB ON ALL SIDES.
- 2" MINIMUM COVER ON ALL SIDES.
- ROUNDED EDGES NOT SHOWN IN THIS VIEW (REFER TO TONGUE AND GROOVE DETAIL)



2 PRE-CAST CONCRETE PANEL - LIFTING LOCATIONS

SCALE: 1/2" = 1'-0"

LIFTING INSERT LOCATION NOTES:

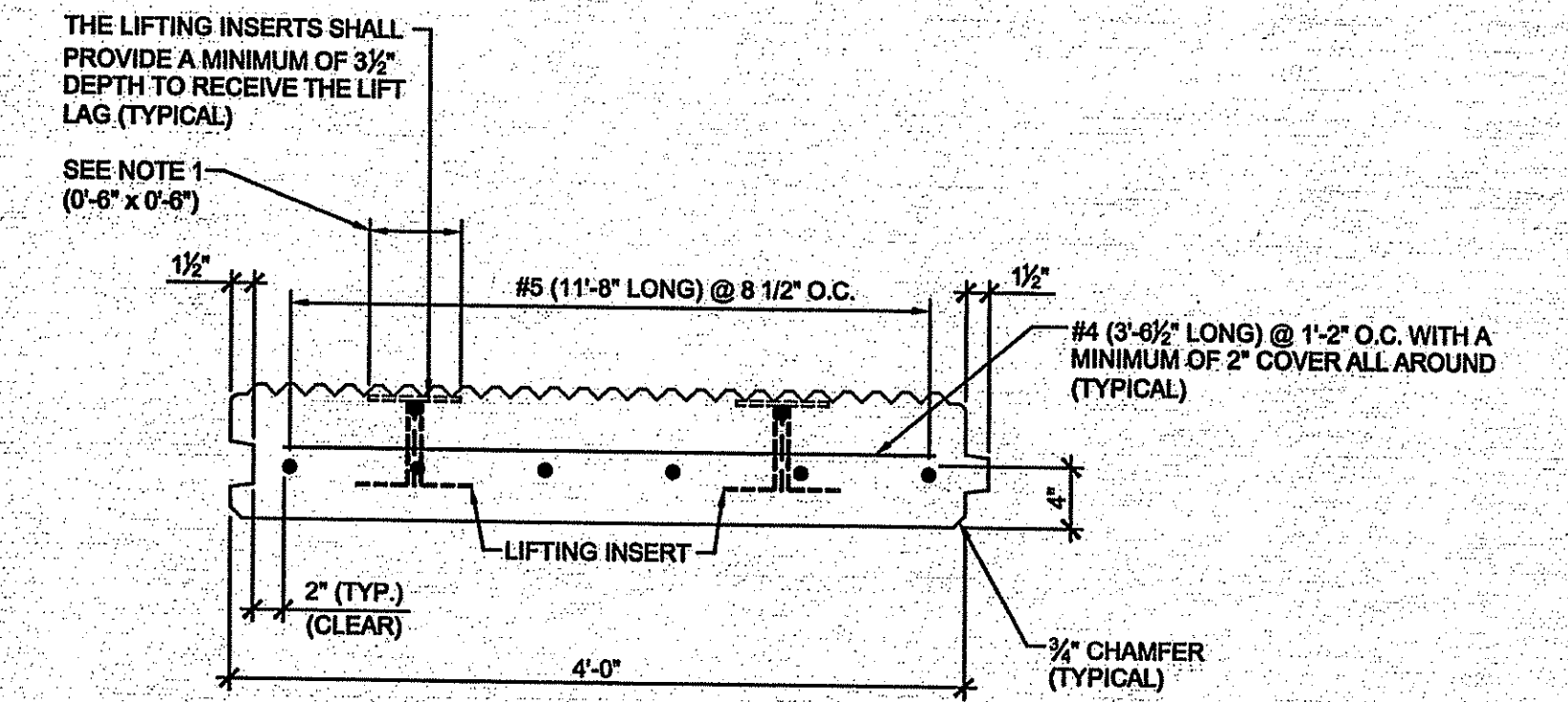
- (2) LIFTING INSERTS PER SLAB - SEE 3 / S-2 FOR INSTALLATION DETAILS.
- LIFTING INSERTS AND DUMMY SETTING STUDS WILL BE STAINLESS STEEL.
- ROUNDED EDGES NOT SHOWN IN THIS VIEW

3 LIFTING INSERT DETAIL

SCALE: 3" = 1'-0"

NOTES:

- LIFTING INSERTS SHALL BE (DAYTON/RICHMOND T-1) STAINLESS STEEL COIL LIFTING INSERTS OR APPROVED EQUALS.
- MINIMUM INSERT HEIGHT SHALL BE 5 1/2" WITH A MINIMUM BASE WIDTH OF 7 1/2".
- THE INSERT MUST ACCEPT THE SPECIFIED 3/4" Ø x 5 1/2" LONG LIFT LAG COIL BOLT AND BE OF THE SAME BRAND.

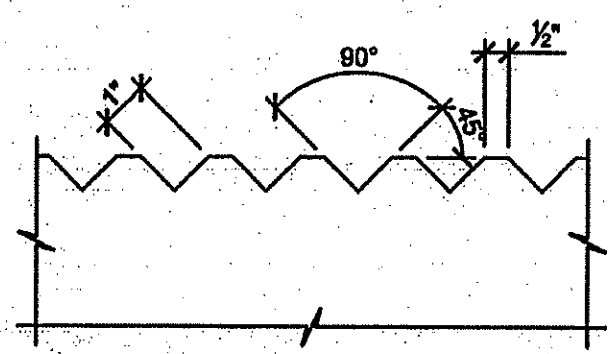


4 TYPICAL PRE-CAST CONCRETE PANEL END VIEW

SCALE: 1" = 1'-0"

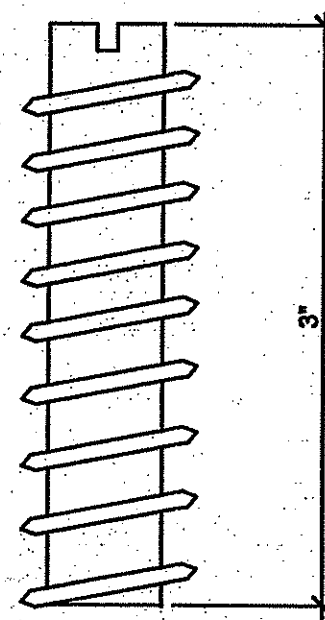
NOTES:

- PATTERN IS BROKEN TO ACCOMMODATE LIFTING APPARATUS AS SHOWN IN THE PLAN VIEW
- COILS OF THE INSERTS SHALL NOT EXTEND ABOVE THE CONCRETE SURFACE AS SHOWN



5 SURFACE GROOVE DETAIL

SCALE: 3" = 1'-0"



6 DUMMY SETTING STUD DETAIL

SCALE: 1'-0" = 1'-0"

NOTE:

DUMMY SETTING STUDS FOR THE LIFTING INSERTS SHALL BE 3/4" Ø x 0'-3" LONG PLASTIC DAYTON/RICHMOND T-7-5 OR APPROVED EQUAL.

7 LIFT LAG DETAIL

SCALE: 3" = 1'-0"

NOTES:

LIFT LAGS FOR ANCHORING DOUBLE SWIVEL LIFTING PLATES SHALL BE 3/4" Ø x 0'-5 1/2" LONG RICHMOND LIFT LAGS (LAG) OR APPROVED EQUAL BEING OF THE SAME BRAND AS THE LIFTING INSERTS AND COMPATIBLE WITH RICHMOND DUO SWIVEL LIFTING PLATES (LDLP) HELD IN STOCK BY THE DEPARTMENT. (4) LIFT LAGS TO BE SUPPLIED.

8 DOUBLE SWIVEL LIFTING PLATE

SCALE: 3" = 1'-0"

NOTES:

DOUBLE SWIVEL PLATES SHALL BE RICHMOND DUO SWIVEL LIFT PLATES (LDLP) OR APPROVED EQUALS DESIGNED TO ACCEPT 3/4" Ø LIFT LAGS AND TO ROTATE 360° IN HORIZONTAL PLANE AND 180° IN VERTICAL PLANE. BASE PLATE TO BE 1/2" x 3" x 0'-5". SAFE WORKING LOAD: 13,000 LBS.

GENERAL NOTES:

- WEIGHT OF SLAB IS APPROXIMATELY 2.5 TONS.
- DEM WILL SUPPLY FOUR LIFT LAGS AND FOUR DOUBLE SWIVEL LIFTING HOOKS FOR USE BY THE CONTRACTOR DURING INSTALLATION. ALL LIFTING ACCESSORIES SHALL BE RETURNED TO DEM ROUND TOP FIELD HEADQUARTERS, BURRILLVILLE AT THE COMPLETION OF THE PROJECT.
- DEM WILL PROVIDE BOAT RAMP SLABS AND LIFTING HOOKS/PLATES TO THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE SLABS AS PART OF THE WORK OF THIS CONTRACT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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SEP 17

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DIVISION OF PLANNING AND DEVELOPMENT

NORTH EAST ENGINEERS & CONSULTANTS, INC.
A KNOWLEDGE CORPORATION

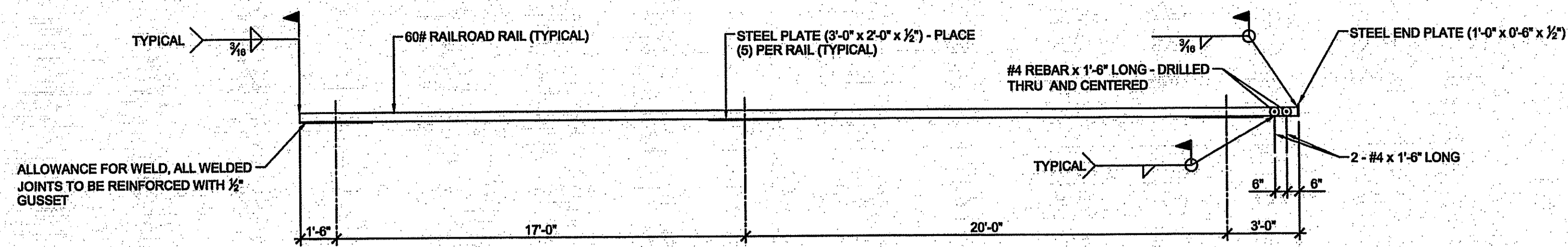
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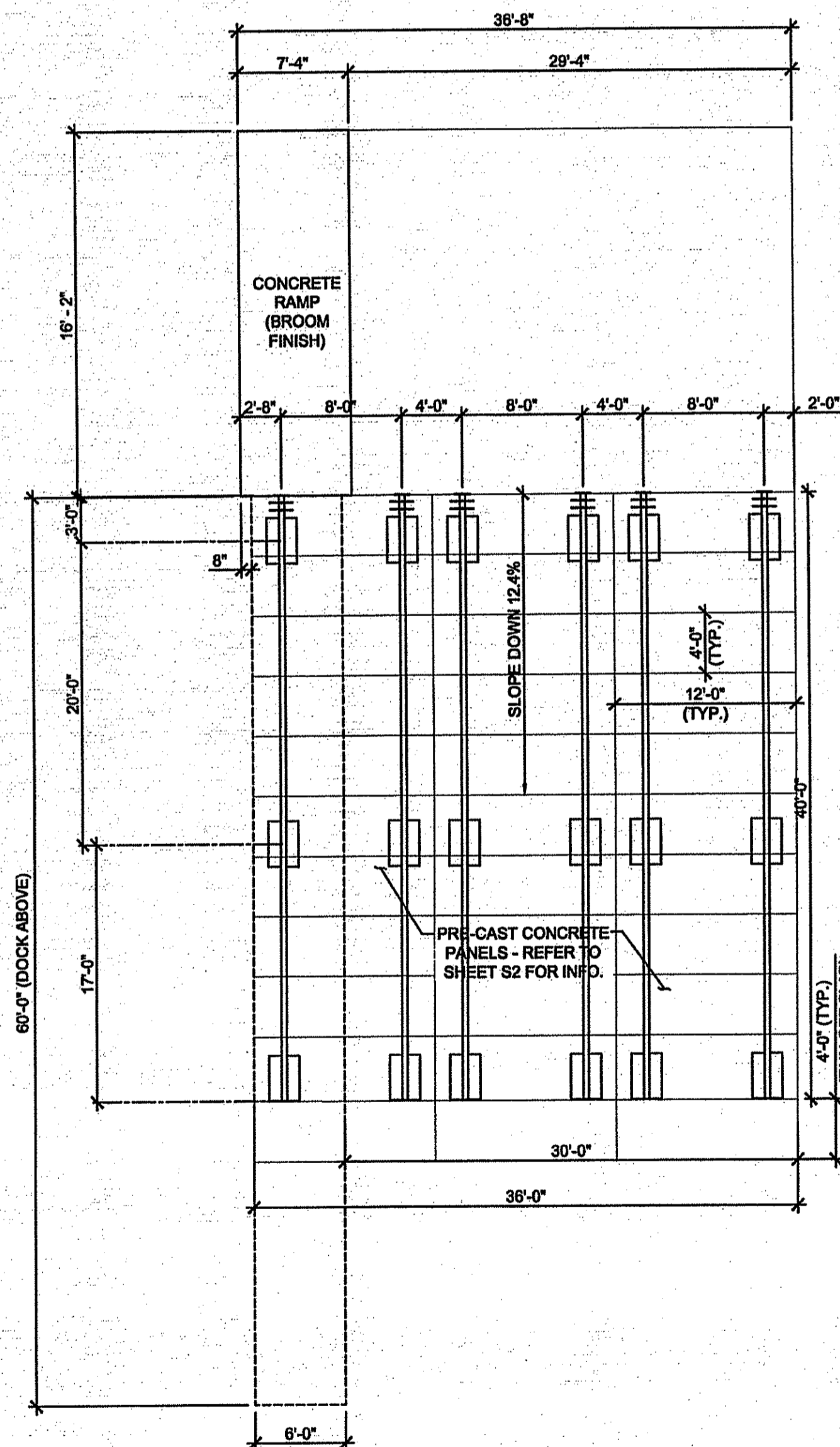
DONALD M. LEFFERT
REGISTERED PROFESSIONAL ENGINEER
6730

BOAT RAMP
SLAB DETAILS - 2

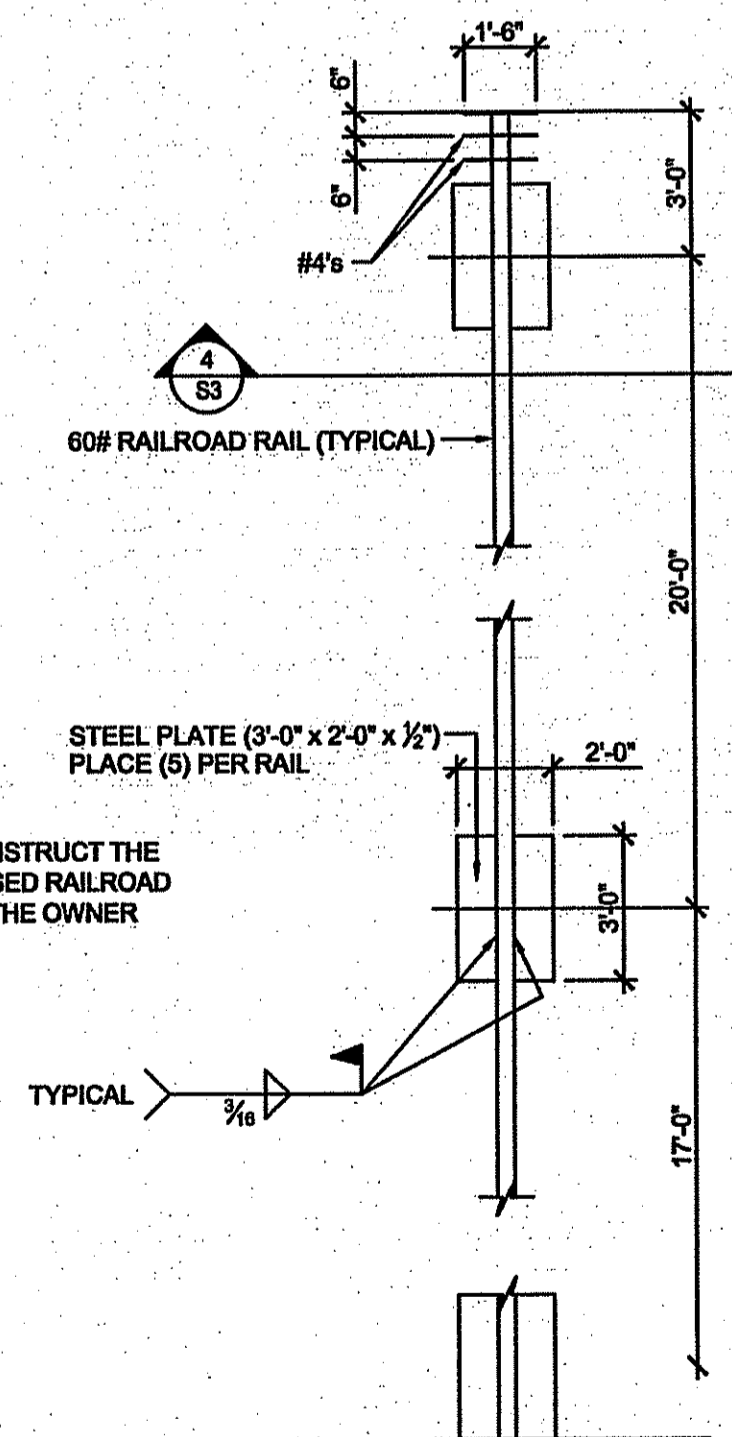
S2
SHEET 7 OF 12



2
S3
GUIDE RAIL ELEVATION
SCALE: 1/4" = 1'-0"



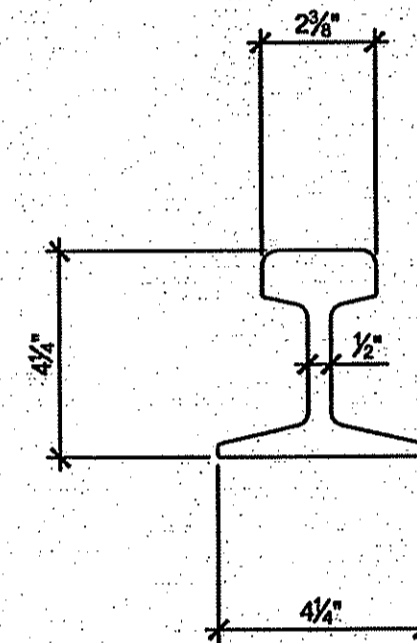
1
S3
COMPREHENSIVE GUIDE RAIL PLAN
SCALE: 1/8" = 1'-0"



NOTES:

1. THE CONTRACTOR MAY CONSTRUCT THE GUIDEWAY SYSTEM WITH USED RAILROAD RAILS UPON APPROVAL OF THE OWNER AND ENGINEER

3
S3
GUIDE RAIL PLAN
SCALE: 1/4" = 1'-0"



4
S3
60# RAILROAD RAIL DETAIL
SCALE: 3" = 1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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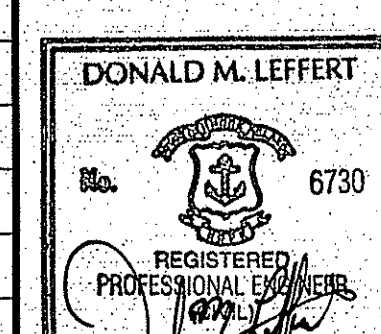


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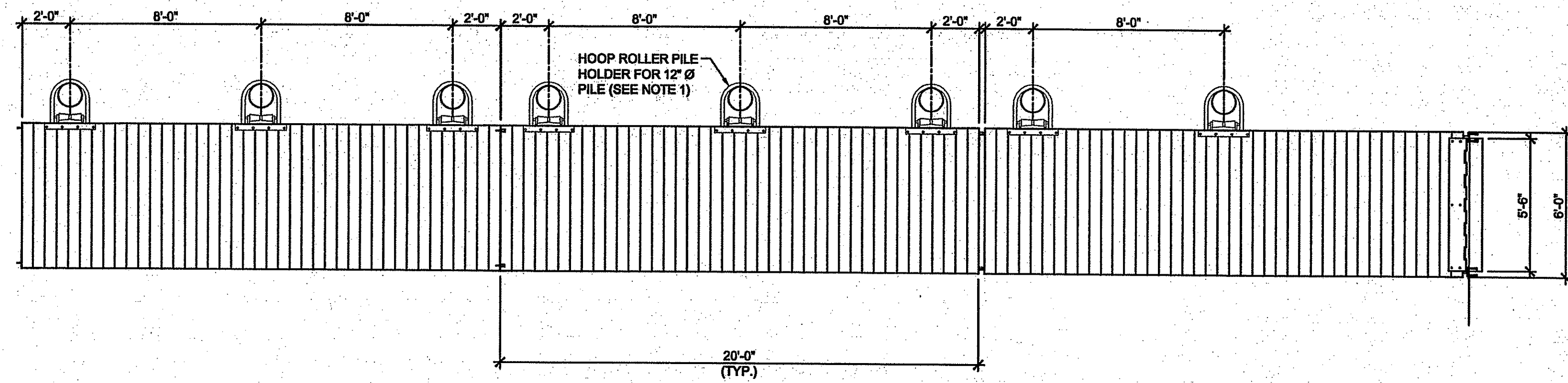
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SITE

Design by: DL
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**STEEL GUIDEWAY
SYSTEM DETAILS - 3**

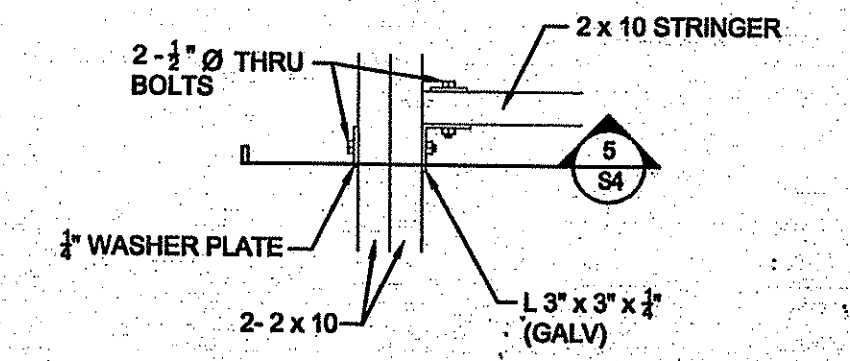
S3
SHEET 3 OF 12



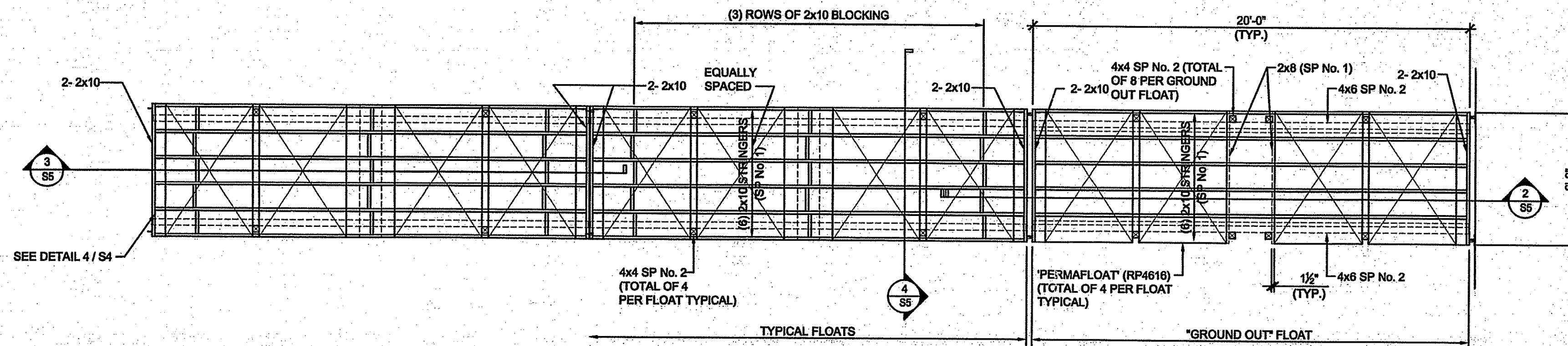
1
S4
FLOATING DOCK PLAN
SCALE: 1/4" = 1'-0"

NOTES:

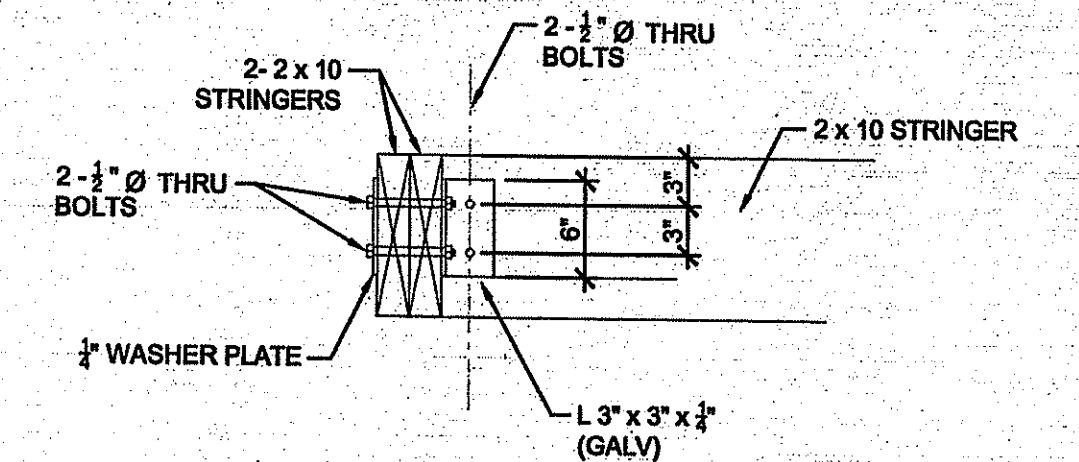
- HOOP PILE HOLDERS SHALL HAVE 1/2" HIGH STRENGTH STEEL WITH HOOPS MADE FROM 1 1/2" SCHEDULE 40 STEEL PIPE. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED. STAINLESS STEEL HEX HEAD BOLTS AND NYLON LOCK NUTS SHALL BE USED TO ATTACH HOOPS.



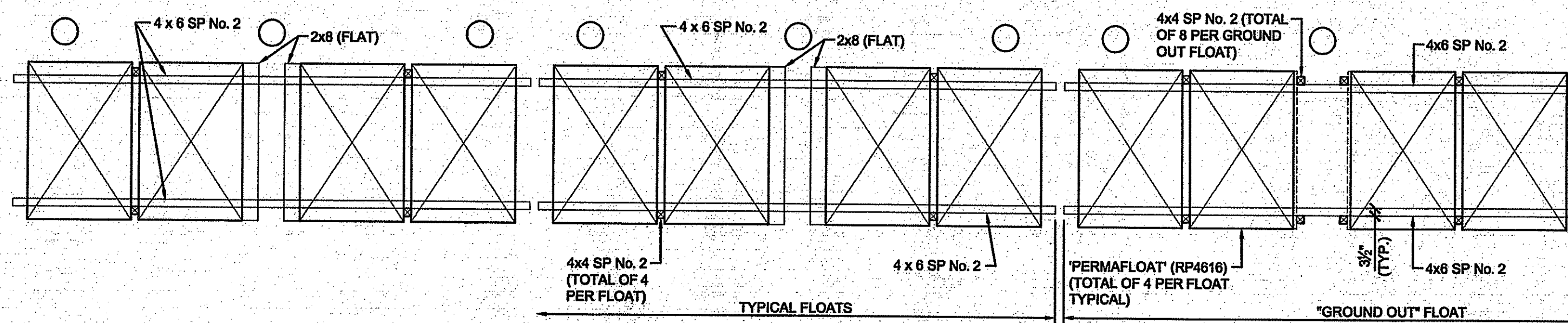
4
S4
TYPICAL STRINGER CONNECTION
SCALE: 1" = 1'-0"



2
S4
FLOATING DOCK FRAMING PLAN
SCALE: 1/4" = 1'-0"



5
S4
SECTION A-A
SCALE: 1" = 1'-0"



3
S4
PERMAFLOAT LOCATION PLAN
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 NOV 14 2013 FILE # 13-0164
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SEP 17 2013

No.	Description	Date
REVISIONS:		

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

NORTHEAST ENGINEERS & CONSULTANTS, INC.
LAND PLANNING
WATERFRONT
SURVEYING
ENVIRONMENTAL
TRANSPORTATION
ENGINEERING
MATERIALS TESTING

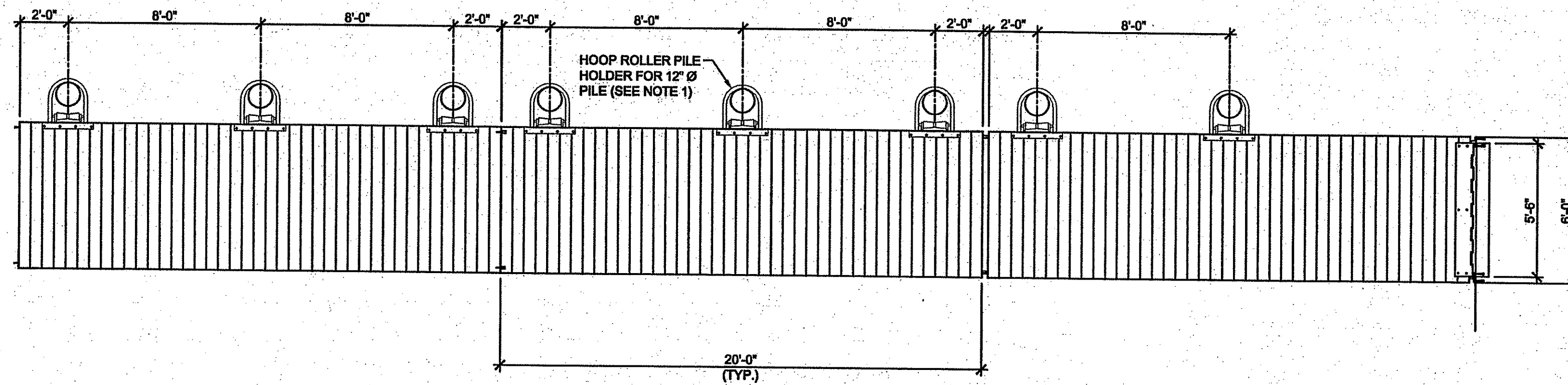
BEACH POND
FRESHWATER ACCESS
SITE

Design by: DL
Drawn by: PDR
Checked by:
Date: MAY 2013
Scale: AS NOTED
Project No.: 12018.0

DONALD M. LEFFERT
REGISTERED PROFESSIONAL ENGINEER
No. 6730

WOOD FLOATS

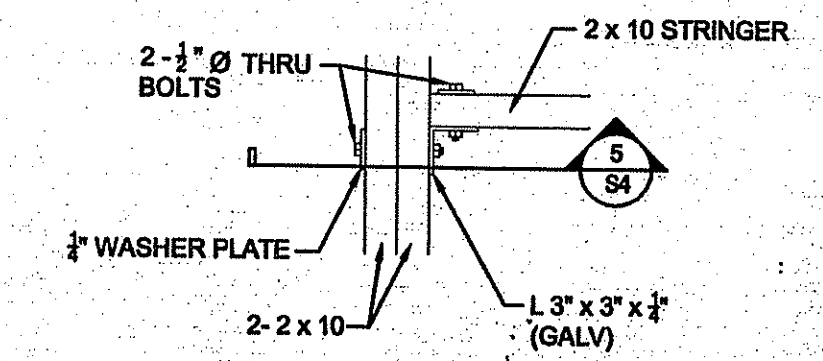
S4
SHEET 9 OF 12



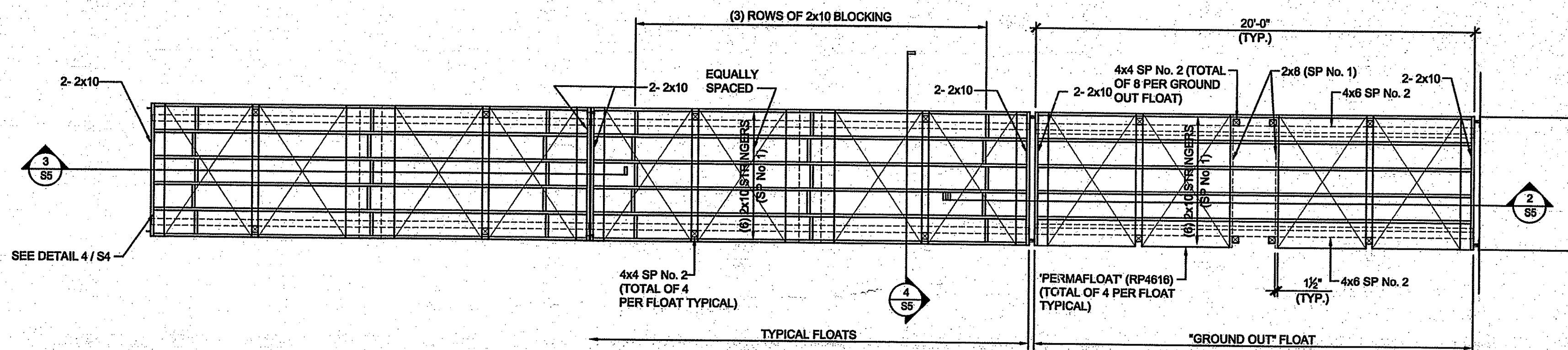
1 FLOATING DOCK PLAN
SCALE: 1/4" = 1'-0"

NOTES:

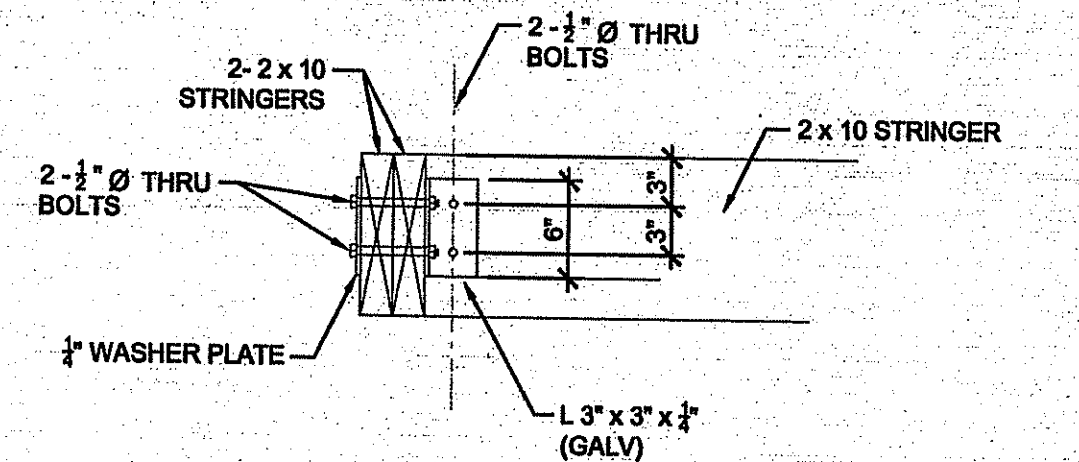
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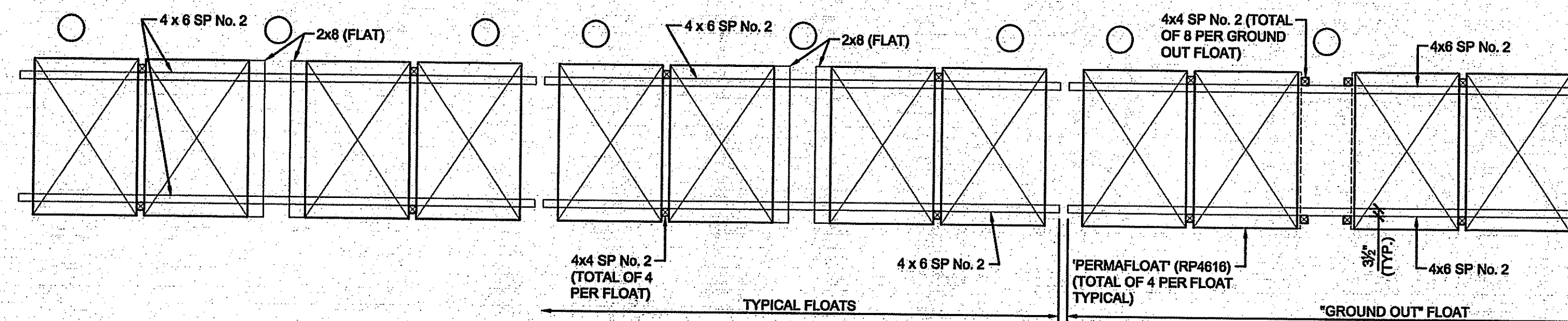
4 TYPICAL STRINGER CONNECTION
SCALE: 1" = 1'-0"



2 FLOATING DOCK FRAMING PLAN
SCALE: 1/4" = 1'-0"



5 SECTION A-A
SCALE: 1" = 1'-0"

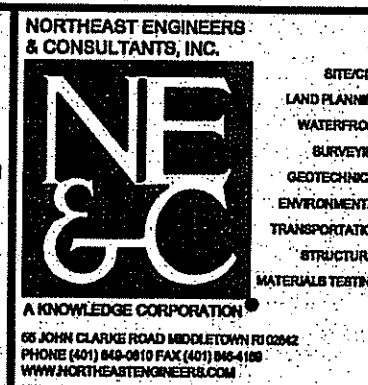
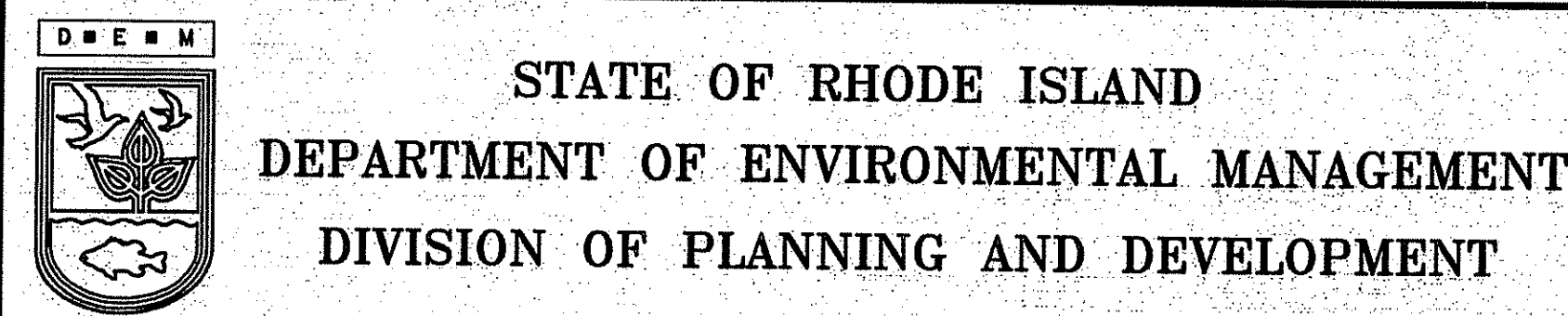


3 PERMAFLOAT LOCATION PLAN
SCALE: 1/4" = 1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 14 2013 FILE # 13-016
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

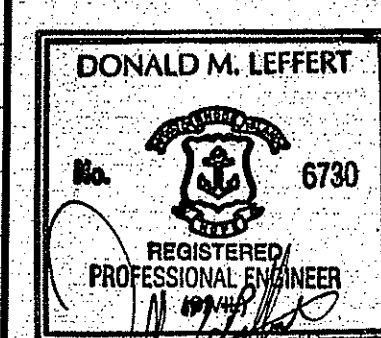
SEP 17 2013

No.	Description	Date



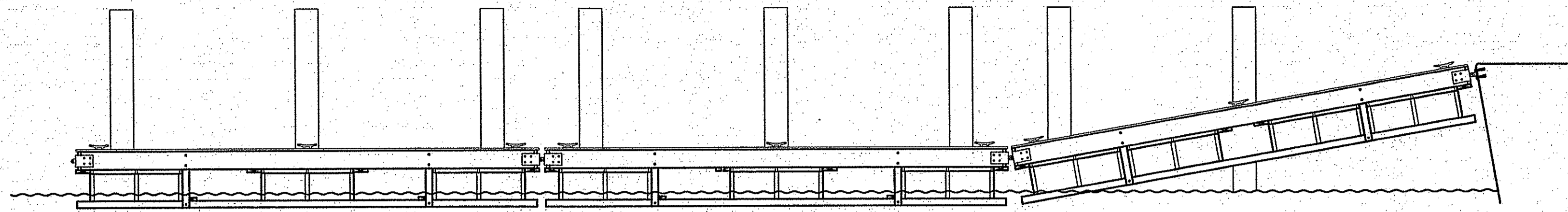
**BEACH POND
FRESHWATER ACCESS
SITE**

Design by: DL
Drawn by: PDR
Checked by:
Date: MAY 2013
Scale: AS NOTED
Project No.: 12018.0

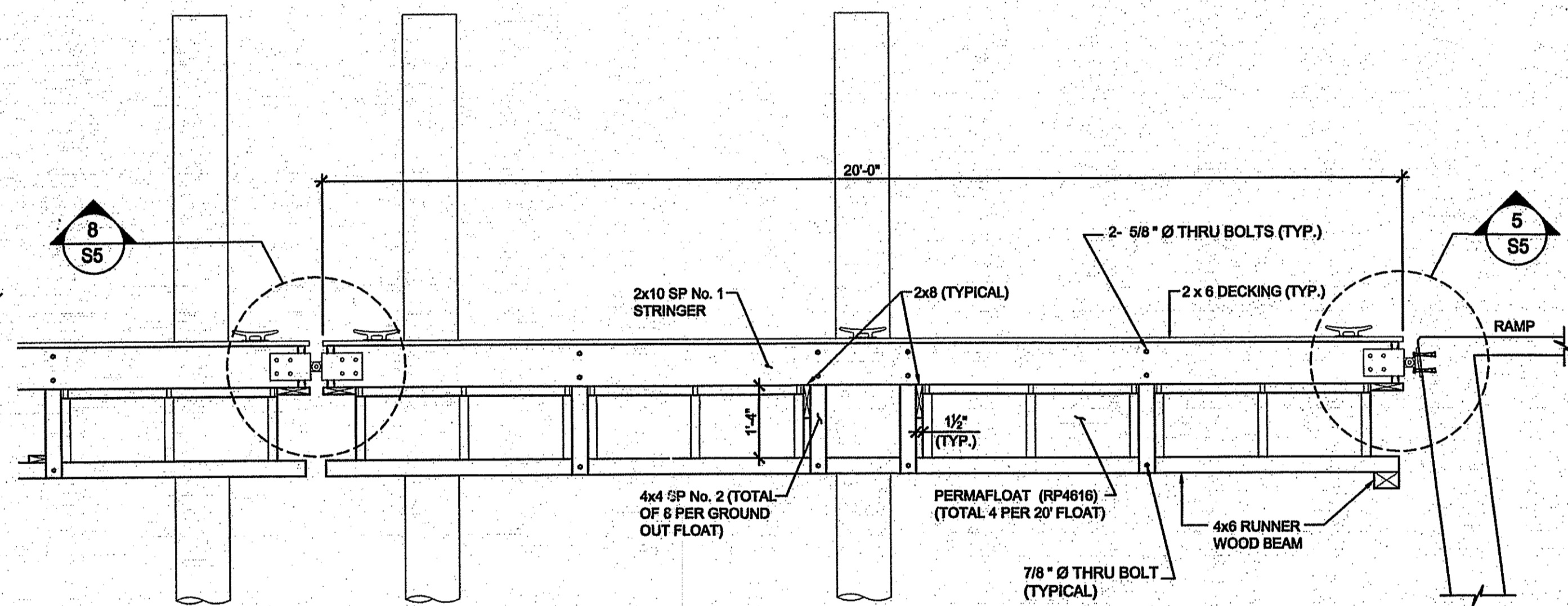


WOOD FLOATS

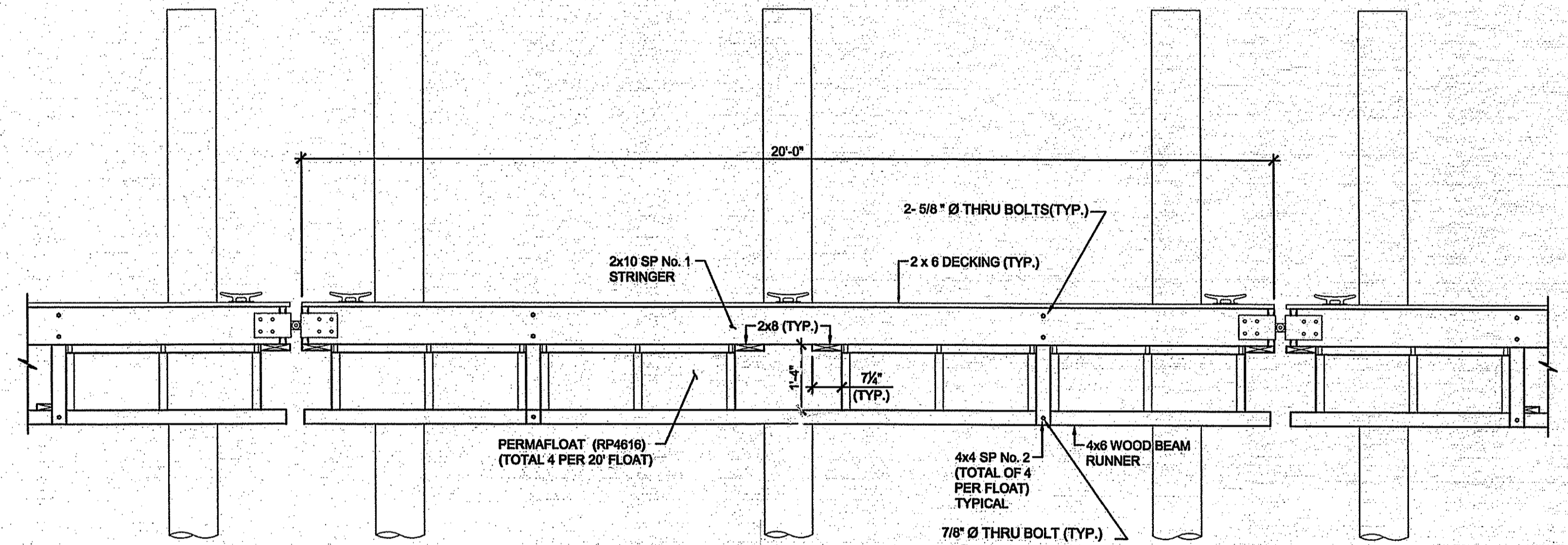
S4
SHEET 9 OF 12



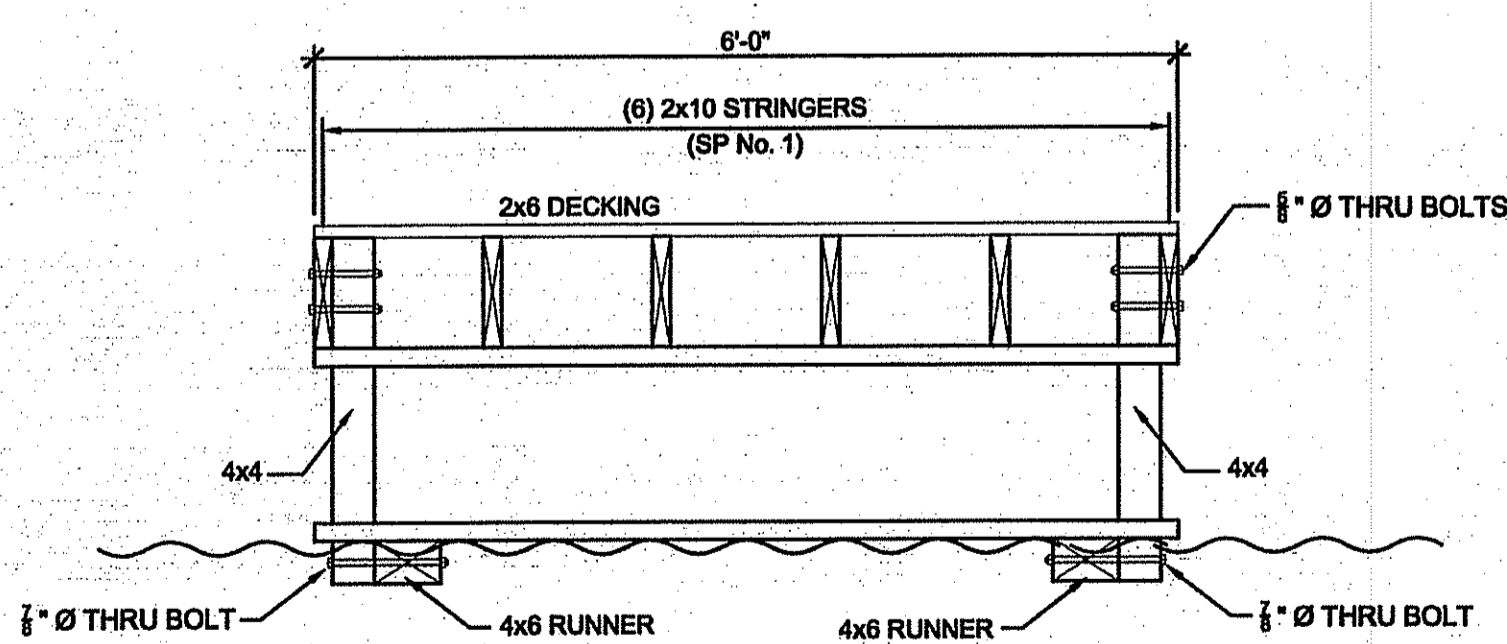
1 FLOATING DOCK ELEVATION
SCALE: 1/4" = 1'-0"



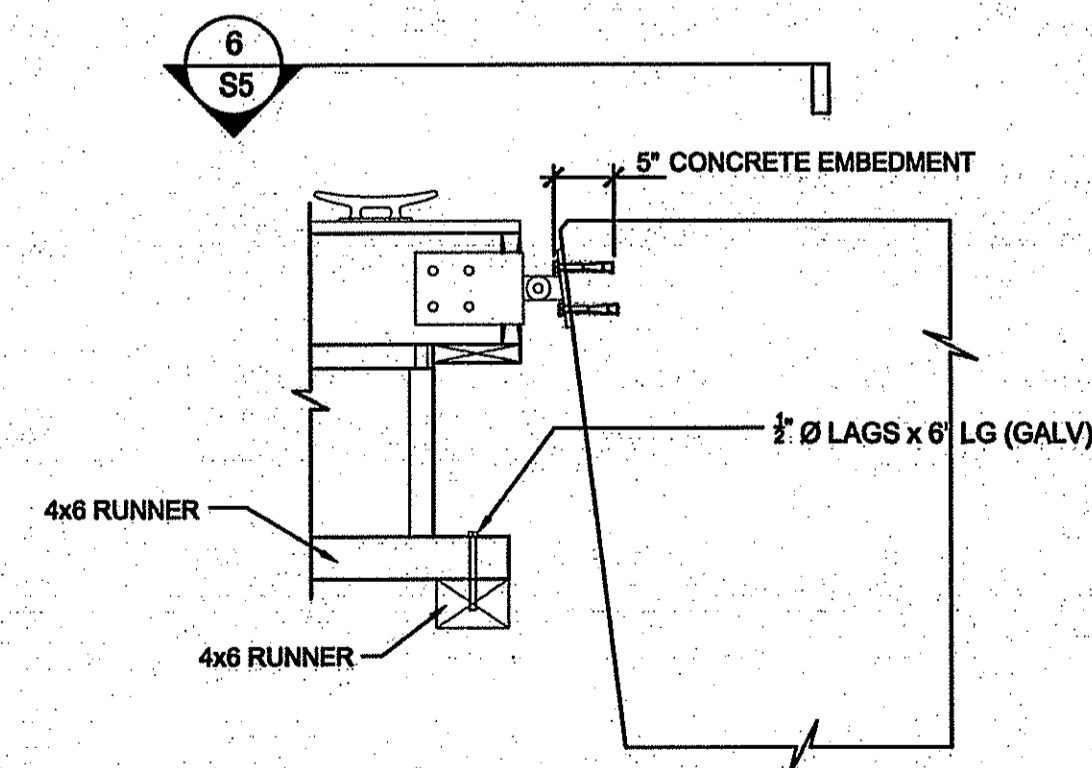
2 SECTION THRU "GROUND OUT" FLOATING DOCK
SCALE: 1/2" = 1'-0"



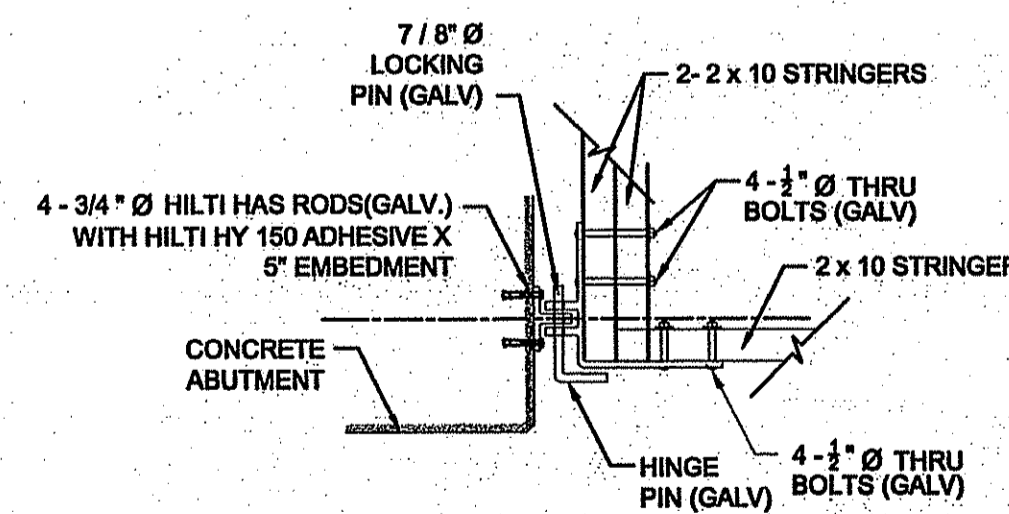
3 TYPICAL SECTION THRU FLOATING DOCK
SCALE: 1/2" = 1'-0"



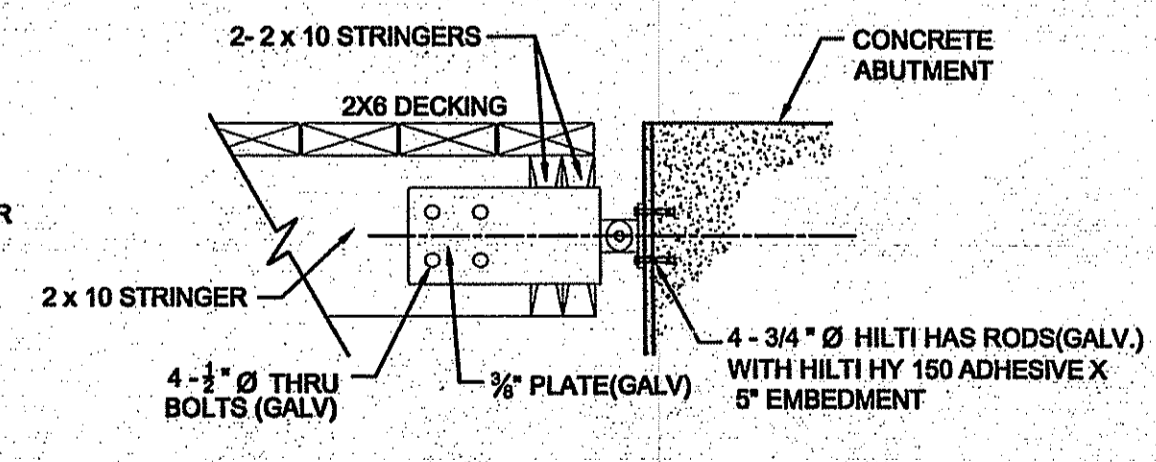
4 SECTION THRU DOCK @ FLOAT BRACING
SCALE: 3/4" = 1'-0"



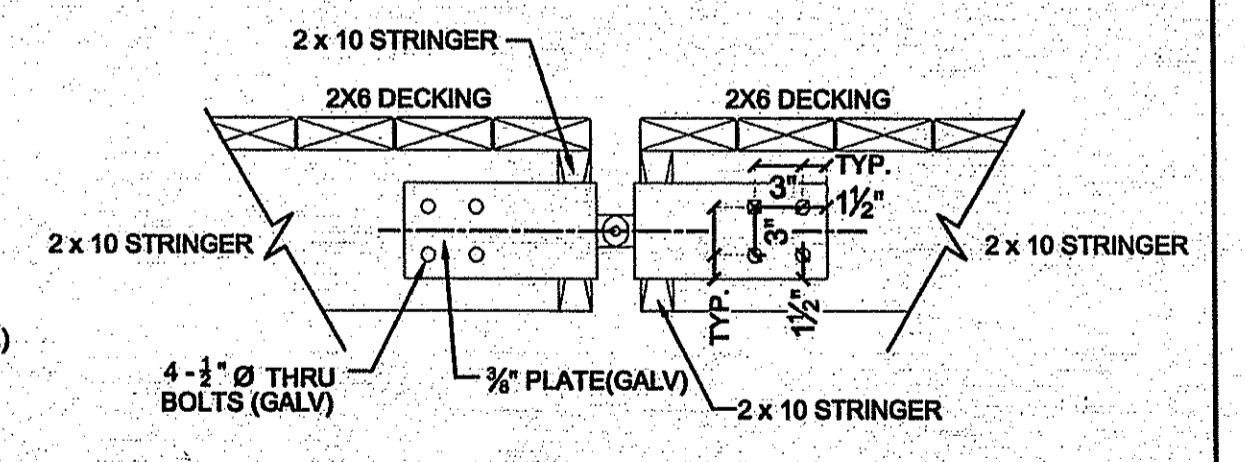
5 DOCK TO WALL CONNECTION
SCALE: 3/4" = 1'-0"



6 SECTION
SCALE: 1" = 1'-0"



7 TYPICAL ABUTMENT CONNECTION
SCALE: 1" = 1'-0"



8 TYPICAL HINGE CONNECTION
SCALE: 1" = 1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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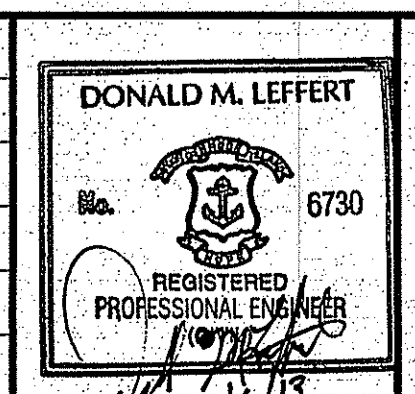
SEP 17 2013

No.	Description	Date

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

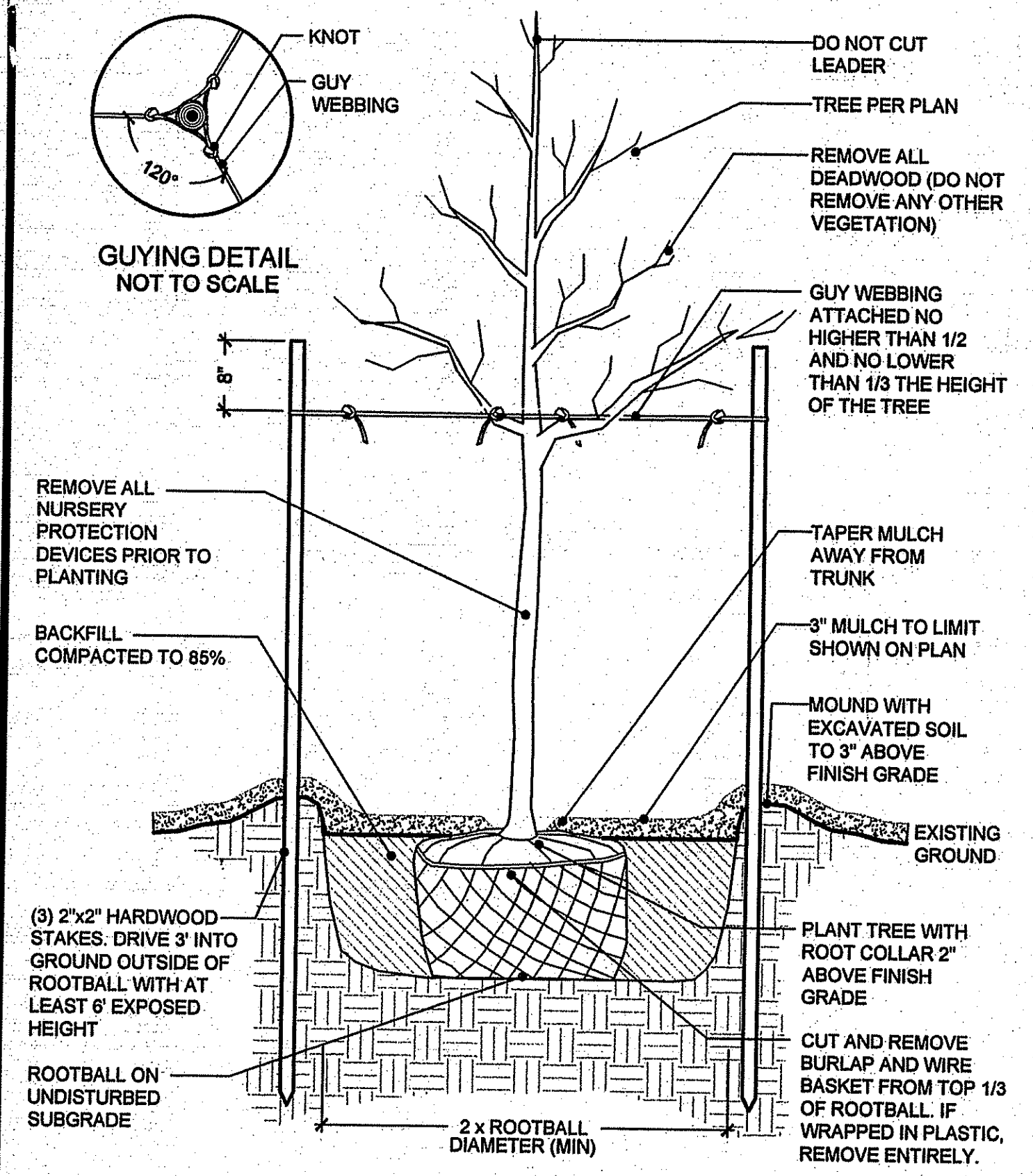
BEACH POND
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Design by: DL
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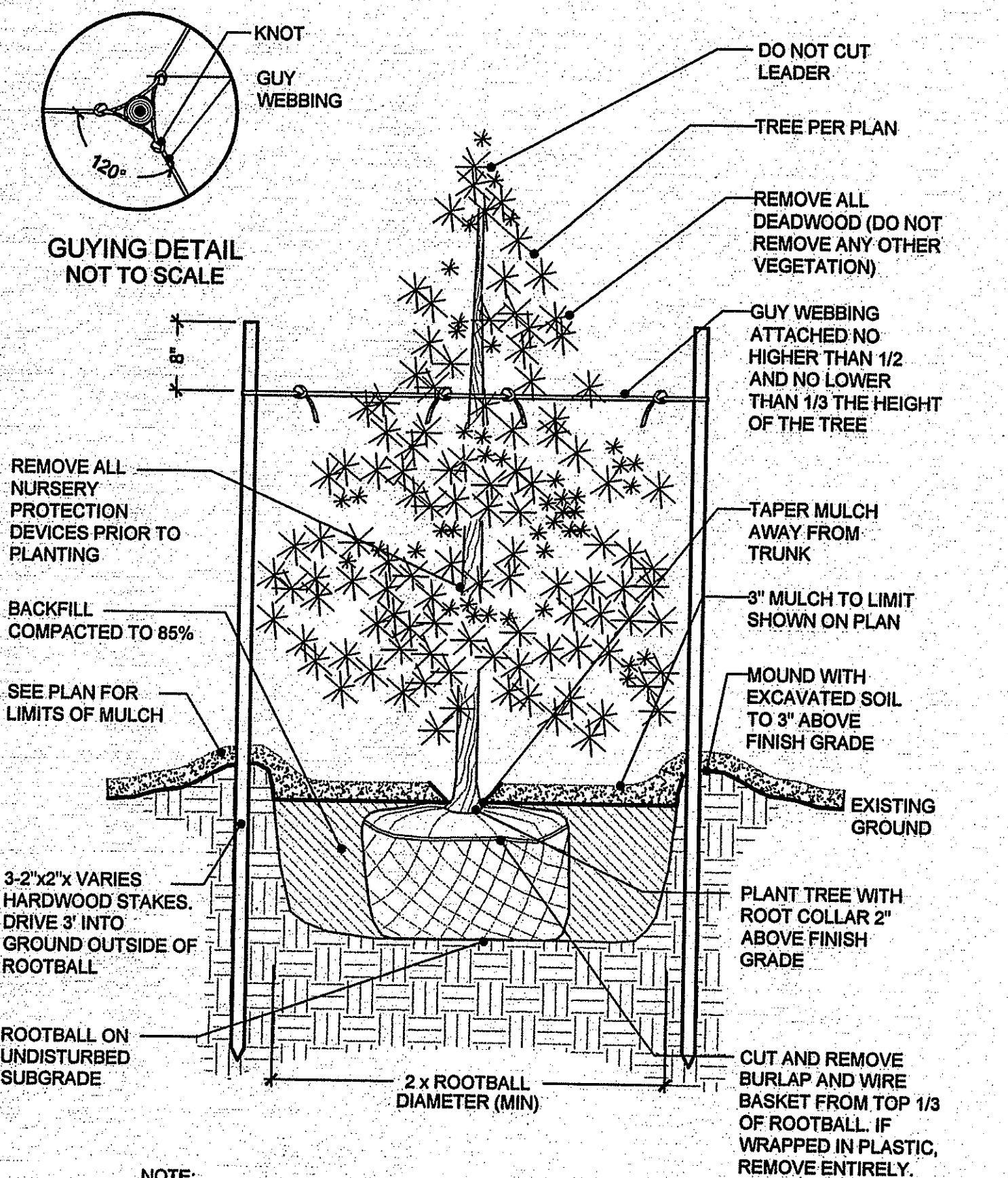


STRUCTURAL DRAWINGS

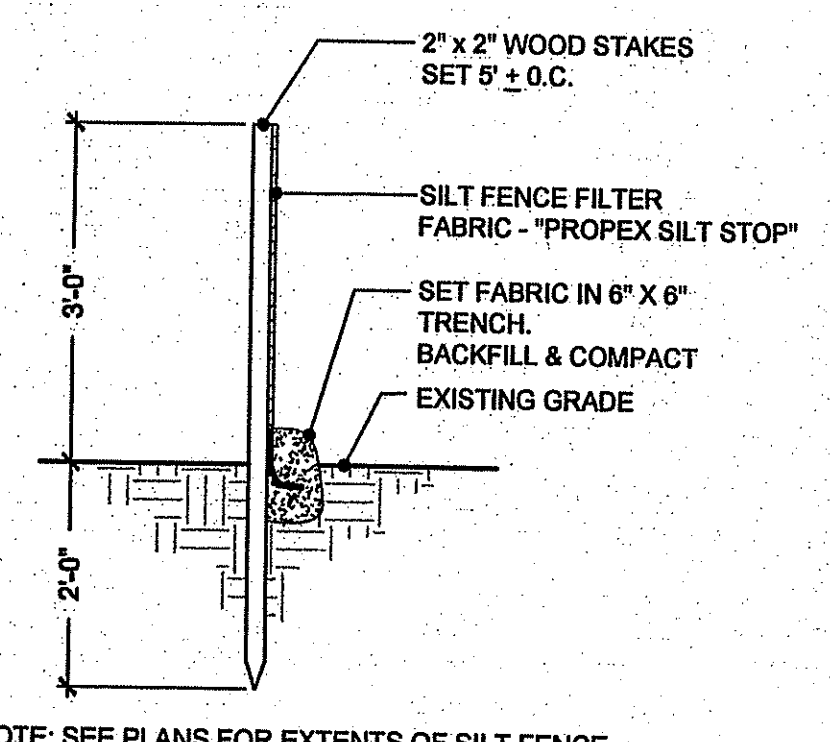
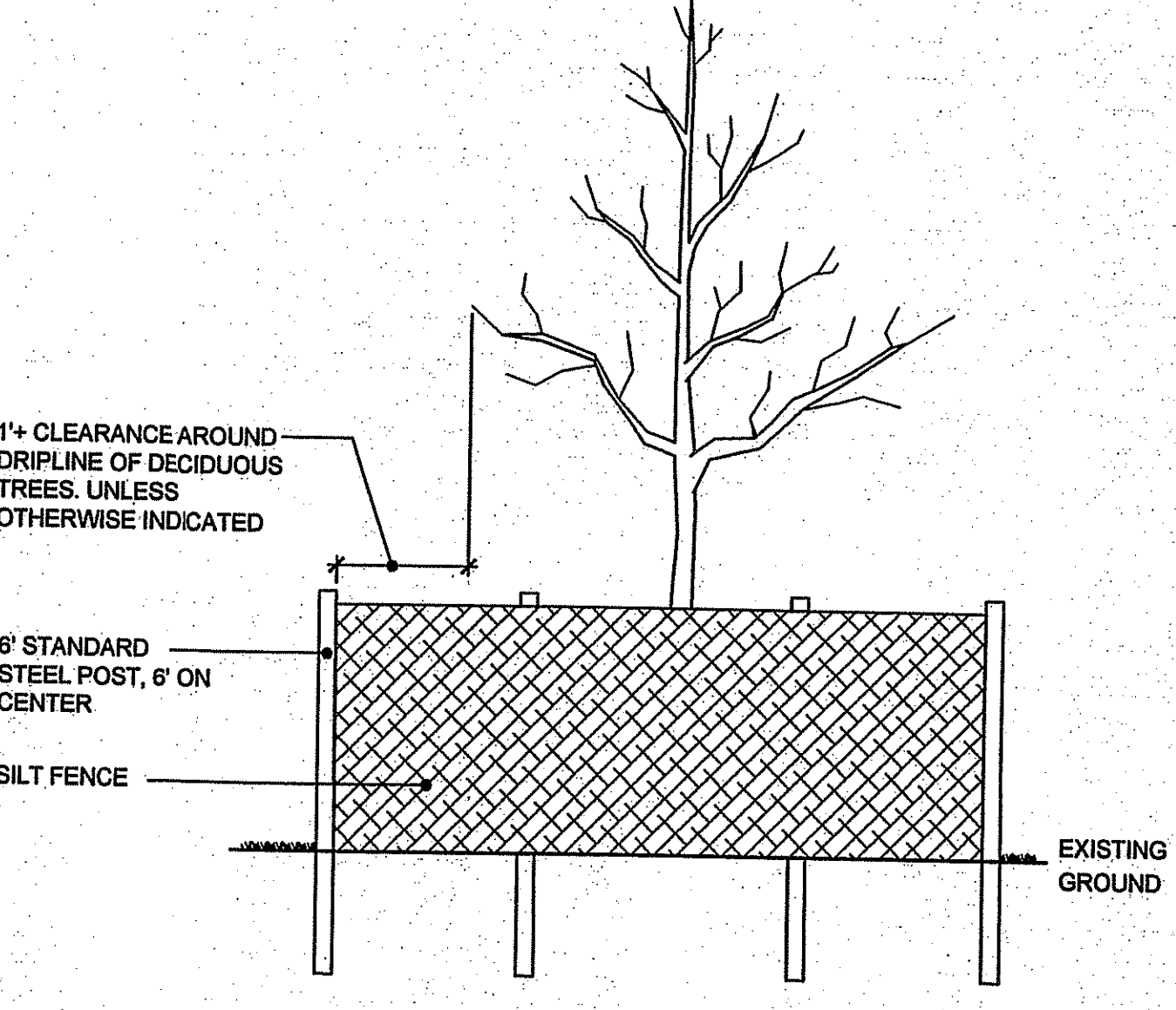
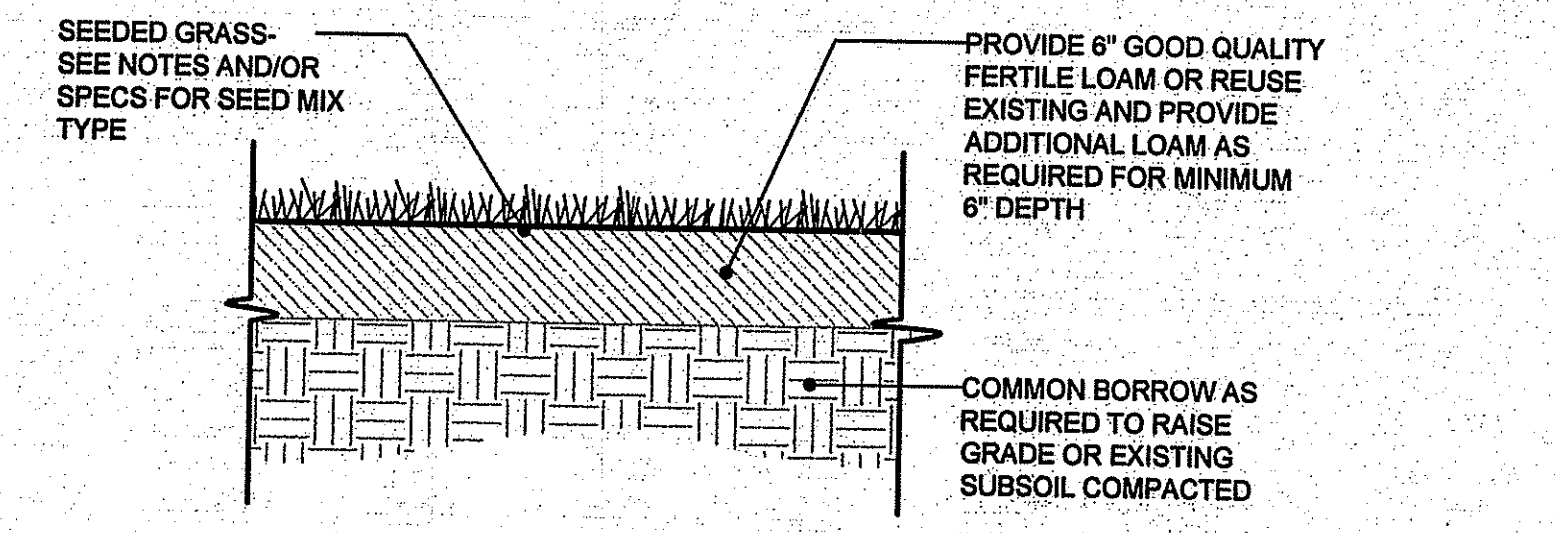
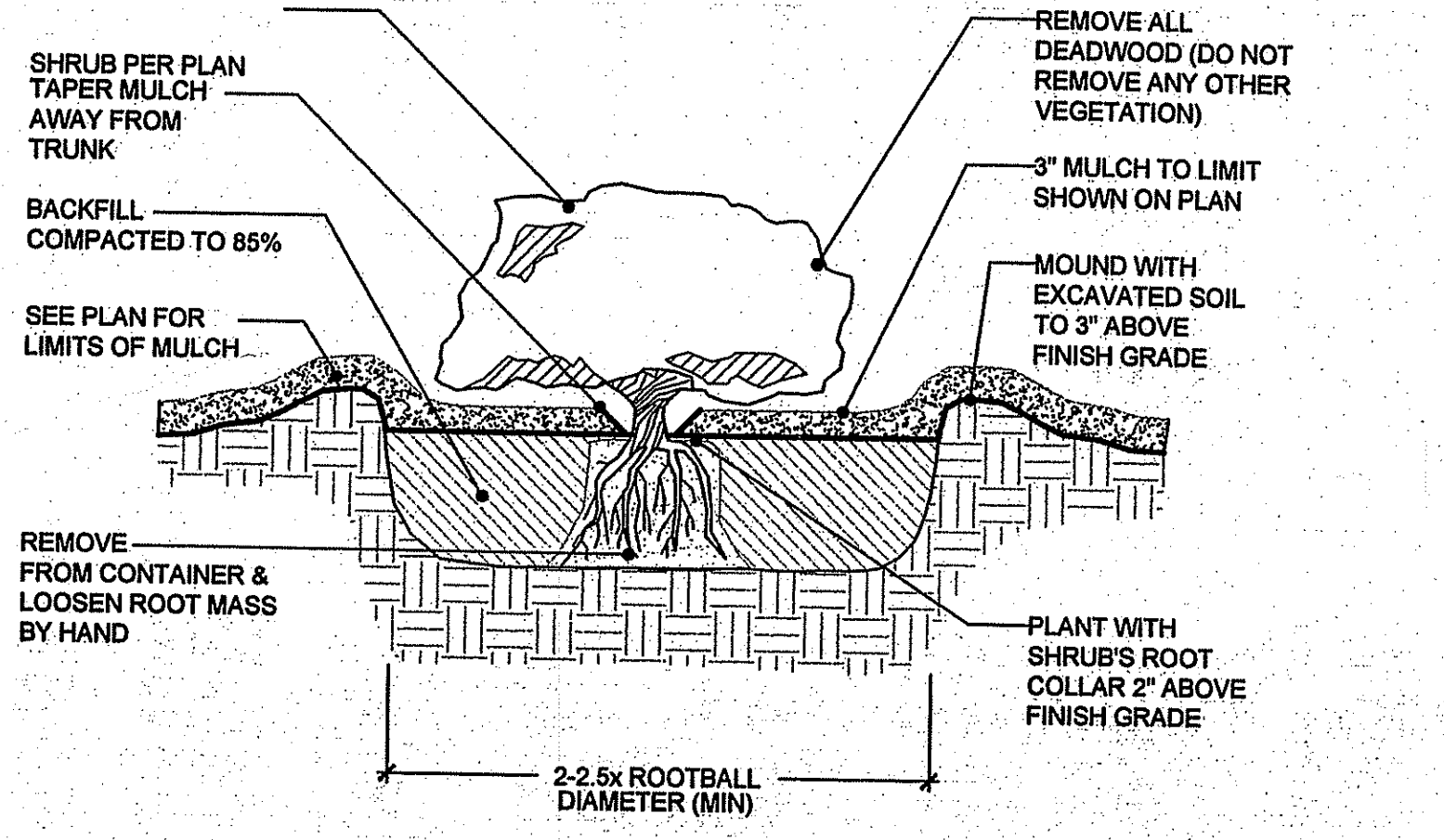
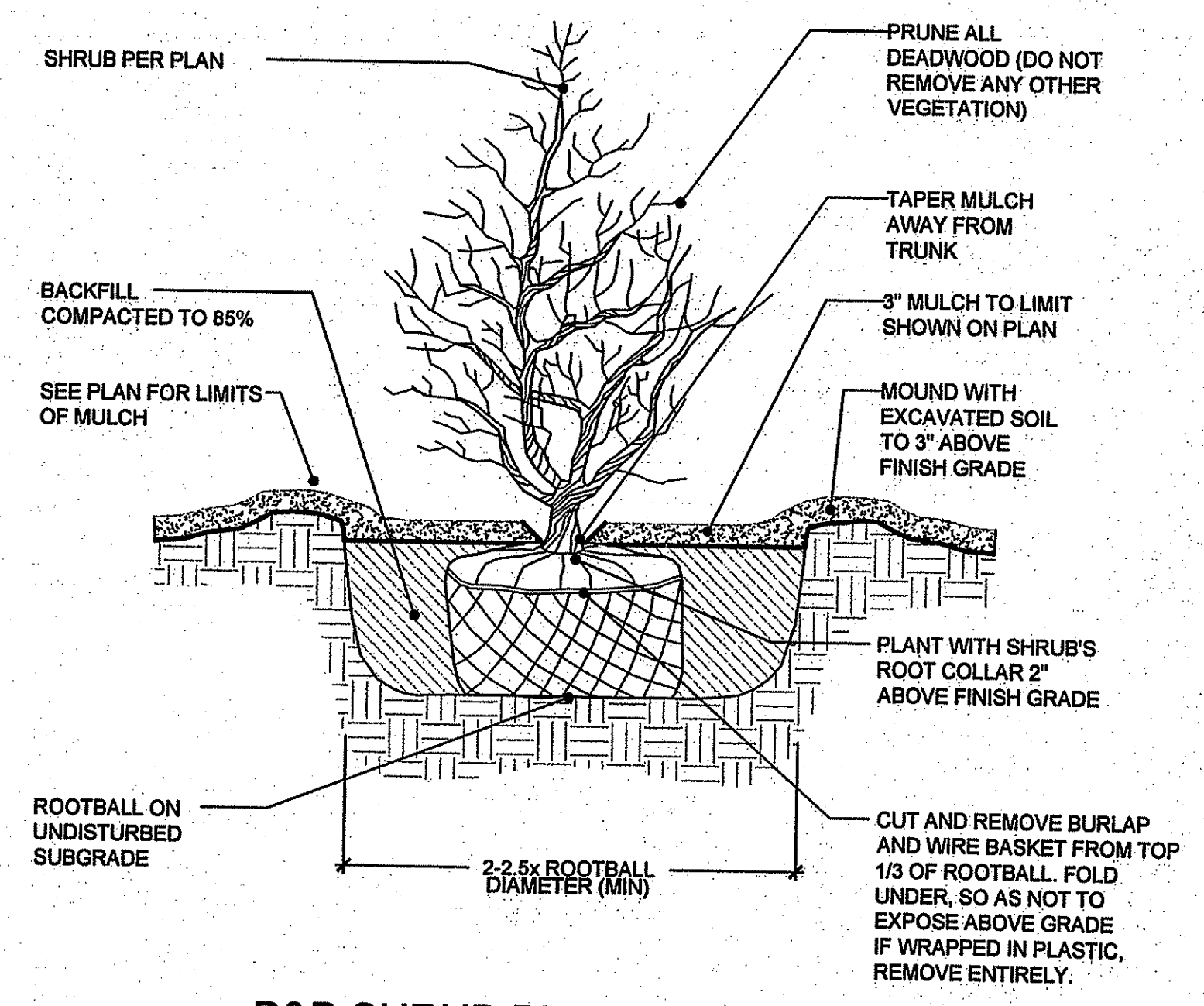
S5
SHEET 10 OF 12



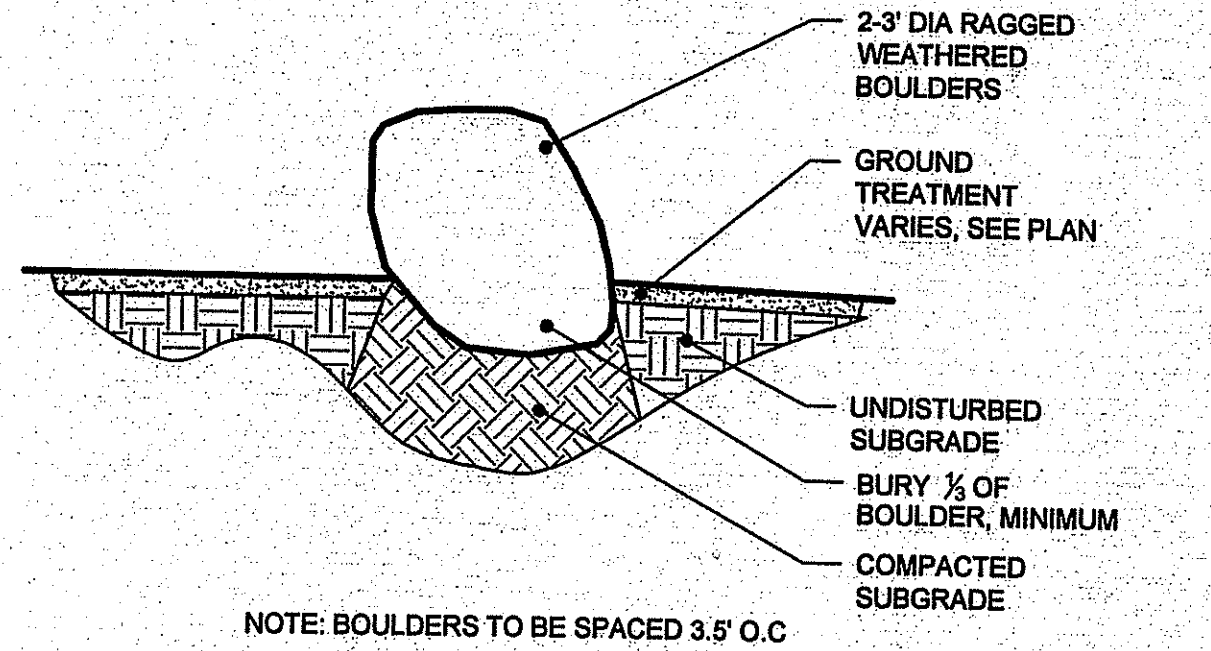
NOTE:
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.



NOTE:
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.



NOTE: SEE PLANS FOR EXTENTS OF SILT FENCE



NOTE: BOULDERS TO BE SPACED 3.5' O.C.

CONSTRUCTION NOTES:

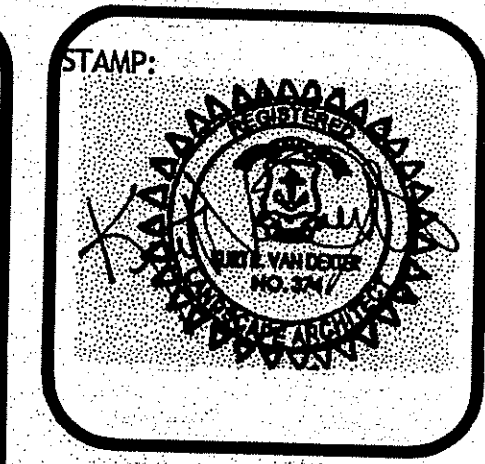
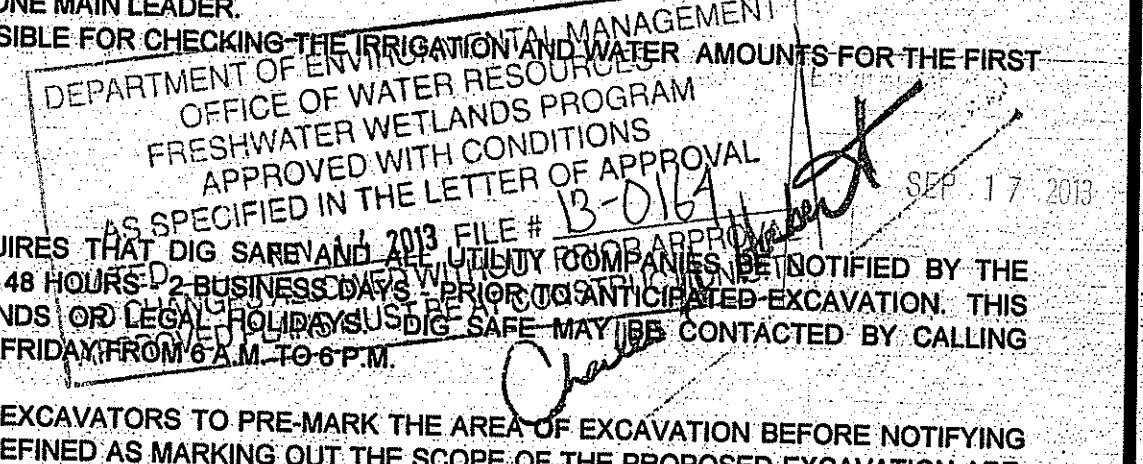
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON SITE AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE CONSTRUCTION PLANS TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ALSO REPORT ANY CONDITIONS UNCOVERED IN THE WORK THAT ARE NOT REFLECTED WITHIN THE PLANS.
2. THE CONTRACTOR 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.
3. THE SITE SHALL BE "ROUGH GRADED" TO THE ELEVATIONS AND CONTOURS SET FORTH ON THE PLANS, ALLOWING FOR GRAVEL, LOAMING AND FINAL GRADING.
4. THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING LOAM FROM THOSE AREAS THAT ARE TO BE EXCAVATED OR FILLED AND TO WITHIN THE PROJECT LIMITS. STOCKPILED LOAM SHALL NOT BE MIXED WITH ANY SUBSOIL OR OTHER UNSUITABLE MATERIAL UNLESS DIRECTED BY OWNER. ALL EXCESS SOIL REMAINS THE PROPERTY OF THE OWNER. EARTH EXCAVATION SHALL BE LIMITED TO THE DIMENSIONS AND REQUIREMENTS SHOWN ON THE DRAWINGS.
5. 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.
6. 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.
7. 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.
8. CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL WETLANDS, COASTAL, CITY/TOWN, AND STATE REGULATIONS.
9. ALL PLANTINGS SHALL BE MAINTAINED IN A MANNER SO AS TO PROMOTE OPTIMUM GROWTH OF PLANT MATERIALS.
10. 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.

PLANTING NOTES:

1. 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.
2. LOAM TO BE GOOD QUALITY, FERTILE, FREE OF WEEDS, STICKS, STONES OVER 3/4", AND ROOTS. SPREAD TO A MINIMUM OF 2" OVER ALL PLANTED AREAS AND 12" IN ALL AREAS DESIGNATED.
3. NURSERY STOCK SHALL MEET THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AS TO GRADING AND QUALITY.
4. 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 (2) YEARS, WILL BE ACCEPTED.
5. 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 SAUCERS CAPABLE OF HOLDING WATER ABOUT INDIVIDUAL PLANTS, BY PLACING RIDGES OF PLANTING SOIL AROUND EACH.
6. STREET TREES SHALL BE SECURELY TRIPLE-STAKED WITH STAKES OF A MINIMUM SIZE OF TWO INCHES BY TWO INCHES BY FEET.
7. TREES IN OPEN AREAS TO HAVE A NATURALIZED BRANCHING HABIT
8. ALL STREET TREES ADJACENT TO SIDEWALKS AND ROADS MUST HAVE A MINIMUM CLEARANCE HEIGHT OF 7' (7 FEET) TO THE FIRST BRANCH
9. 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
10. PRUNING: PRUNE PLANTS, AS DIRECTED BY OWNER, AT THE PROJECT SITE BEFORE OR IMMEDIATELY AFTER PLANTING IN ACCORDANCE WITH THE BEST HORTICULTURAL PRACTICE. CUT BROKEN, DEAD OR INJURED BRANCHES FLUSH WITH THE TRUNK OR THE LIMB. PRUNE ALL BROKEN ROOTS ON THE PLANT SIDE OF THE BREAK. PRUNING SHALL NOT DEFORM OR OTHERWISE DESTROY THE TYPICAL SHAPE OR SYMMETRY OF THE PLANT AND SHALL NOT REDUCE THE HEIGHT BY MORE THAN ONE-THIRD. DO NOT CUT BACK THE LEADER OF THE PLANT UNLESS DIRECTED BY THE LANDSCAPE ARCHITECT.
11. 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 PELLETT PER INCH OF TRUNK DIAMETER (FOLLOW MANUFACTURER'S WRITTEN SPECIFICATIONS) OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.
12. MULCHING: COVER ALL PLANTED AREAS WITH 3" DARK BROWN PINE BARK MULCH WITHIN A SEVENTY-TWO HOUR PERIOD AFTER PLANTING. NO RED MULCH ACCEPTED.
13. GUARANTEE: ALL PLANTS FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS AFTER PRELIMINARY INSPECTION AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH ONCE BY THE CONTRACTOR, FREE OF CHARGE.
14. ALL TREES ARE TO HAVE ONE MAIN LEADER.
15. CONTRACTOR IS RESPONSIBLE FOR CHECKING THE IRRIGATION AND WATER AMOUNTS FOR THE FIRST YEAR.

DIG SAFE

1. RHODE ISLAND LAW REQUIRES THAT DIG SURETY AND UTILITY COMPANIES BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION. THIS DOES NOT INCLUDE WEEKENDS OR LEGAL HOLIDAYS. DIG SAFE MAY BE CONTACTED BY CALLING 1-888-344-7233 MONDAY THRU FRIDAY FROM 6 A.M. TO 6 P.M.
2. 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.
3. LOCATE AND RECORD ALL BURIED UTILITIES AND CONFORM TO REQUIREMENTS GOVERNING EXCAVATION AND CHANGES IN THIS AREA.
4. 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 EXCAVATED AND TO AVOID DISRUPTION, IT MAKES SENSE TO HAND DIG WHEN NEAR AND UNDERGROUND FACILITY.
5. 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.
6. A DIG SAFE PERMIT SHOULD BE PROCESSED ONLY IF YOU INTEND TO EXCAVATE WITHIN 30 DAYS.



HALI BECKMAN LTD
23 Brown Street, Suite 206, Wickford, RI 02892
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Estate Planning - Landscape Architecture



LANDSCAPE DETAILS
DEM 100% SUBMISSION
BEACH POND FRESHWATER ACCESS SITE
TEN ROD ROAD
EXETER, RHODE ISLAND

REVISION: AUGUST 8, 2013
DATE: APRIL 3, 2013
DRAWN BY: SGG
SCALE: NTS
SHEET
L-2
SHEET NO. 2 OF 2
JOB NO. 355

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LANDSCAPE PLAN
DEM 100% SUBMISSION
BEACH POND FRESHWATER ACCESS SITE
TEN ROD ROAD
EXETER, RHODE ISLAND

REVISION: AUGUST 8, 2013
 AUGUST 20, 2013
 DATE: APRIL 3, 2013
 DRAWN BY: SGG
 SCALE: 1" = 30'
 SHEET
L-1
 SHEET NO. 1 OF 2
 JOB NO. 355

PLANT SCHEDULE				
KEY	QTY.	BOTANICAL NAME - Common Name	SIZE	NOTES
TREES				
JV	3	JUNIPERUS VIRGINIANA - Eastern Red Cedar	4'-5" H	10' O.C.
AR	6	ACER RUBRUM - Red Maple	1.5-2' Cal	Limb to 7'
SHRUBS & GROUNDCOVERS				
AU	10	ARCTOSTAPHYLOS UVA-URSI - Bearberry	4" pot	18" O.C.
CA	9	CLETHRA ALNIFOLIA - Summersweet Clethra	18-24"	5' O.C.
CP	64	COMPTONIA PEREGRINA - Sweet Fern	18-24"	3' O.C.
IGC	21	ILEX GLABRA 'COMPACTA' - Compacta Inkberry	18-24"	6' O.C.
JC	17	JUNIPERUS COMMUNIS - Common Juniper	18-24"	6' O.C.
JH	5	JUNIPERUS HORIZONTALIS - Spreading Juniper	1 Gal	3' O.C.
MP	23	MYRICA PENNSYLVANICA - Northern Bayberry	2-3'	6' O.C.
RC	10	ROSA CAROLINA - Pasture Rose	2-3'	6' O.C.
RV	18	ROSA VIRGINIANA - Virginia Rose	2-3'	6' O.C.
SD	19	SALIX DISCOLOR - Pussy Willow	2-3'	8' O.C.
VC	21	VACCINIUM CORYMBOSUM - High-Bush Blueberry	2-3'	6' O.C.

ALL NATIVE PLANTS AVAILABLE IN THESE SIZES AT NEW ENGLAND WETLAND PLANTS (413) 548-8000

SEED MIX A
SHORELINE MIX FOR DRY SITES
WITH SEASONAL FLOODING

TYPE	% BY WEIGHT
FESTUCA RUBRA	N/A
ELYMUS CANADENSIS	N/A
LOLIUM MULTIFLORUM	N/A
LOLIUM PERENNE	N/A
BOUTELOUA GRACILIS	N/A
SCHIZACHYRIUM SCOPARIUM	N/A
SORGHASTRUM NUTANS	N/A
AGROSTIS SCABRA	N/A
AGROSTIS PERENNANS	N/A

(SEED RATIO NOT SUPPLIED, PLEASE CALL ALLEN'S SEED STORE FOR MORE INFORMATION 1-800-527-3898)

APPLICATION RATE = 35 LBS. / ACRE

NOTE: TO BE SPREAD OVER BED OF 1" GOOD QUALITY, SCREENED LOAM & COVERED IN A LIGHT LAYER OF WEED-FREE STRAW AFTER SEEDING. DO NOT MOW

SEED MIX B
EROSION CONTROL FOR DRY SITES MIX

TYPE	% BY WEIGHT
E.YMUS CANADENSIS	N/A
SCHIZACHYRIUM SCOPARIUM	N/A
FESTUCA RUBRA	N/A
ANDROPOGON GERARDII	N/A
SORGHASTRUM NUTANS	N/A
CHAMAECRISTA FASCICULATA	N/A
PANICUM VIRGATUM	N/A
LUPINUS PERENNIS	N/A
ASCLEPIAS SYRIACA	N/A
CORNUS AMOMUM	N/A
CORNUS RACEMOSA	N/A
RHUS TYPHINA	N/A
ZIZIA AUREA	N/A
LESPEDEZA CAPITATA	N/A
ASTER LAEVIS	N/A
HELIOPSIS HELIANTHOIDES	N/A
MONARDA FISTULOSA	N/A
RUDBECKIA HIRTA	N/A
EUTHAMIA GRAMINIFOLIA	N/A
SOLIDAGO JUNCEA	N/A

(SEED RATIO NOT SUPPLIED, PLEASE CALL ALLEN'S SEED STORE FOR MORE INFORMATION 1-800-527-3898)

APPLICATION RATE = 35 LBS. / ACRE

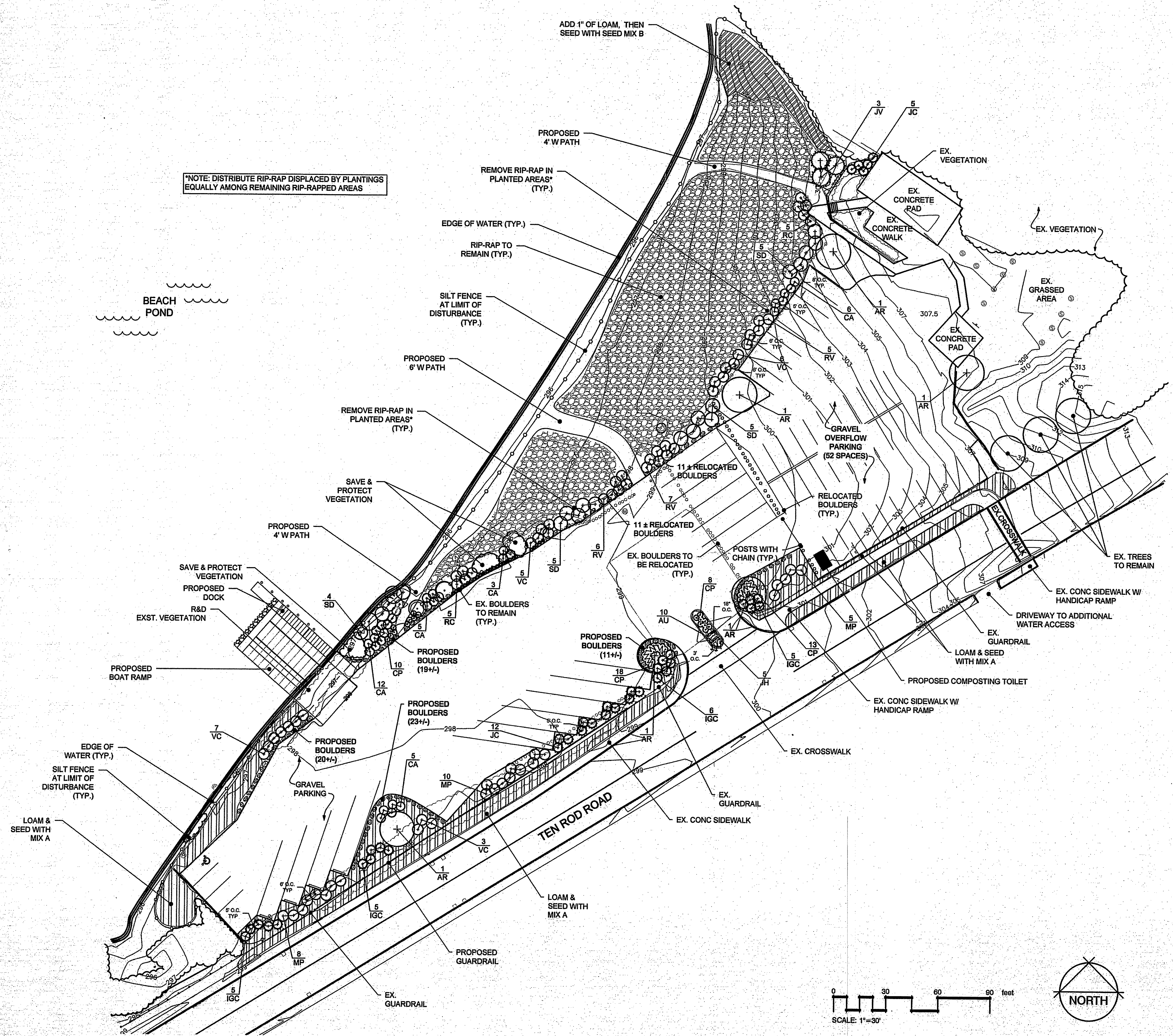
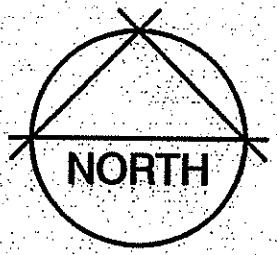
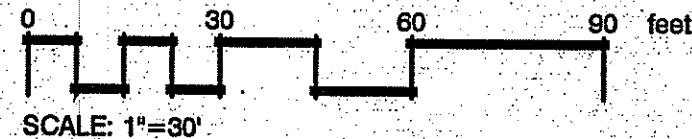
NOTE: TO BE SPREAD OVER BED OF 1" GOOD QUALITY, SCREENED LOAM, & COVERED IN A LIGHT LAYER OF WEED-FREE STRAW AFTER SEEDING. DO NOT MOW

SEEDING NOTES

- LOAM SHALL BE SPREAD TO A MINIMUM DEPTH OF 2" OVER ALL AREA DESIGNATED ON PLANS.
- SHAPE AND SMOOTH THE SURFACE TO THE LINES AND GRADES AS 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 3 TO 4 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQ. FT. AT SEEDING.
- 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 4 INCHES OF TOP SOIL (MINIMUM) AND UNIFORMLY BLEND BY DICING OR ROTOTILLING.
- ANY LOAM EXPOSED FOR ONE WEEK SHALL BE PLANTED WITH ANNUAL RYE GRASS SEED & SEED MIX A. 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: MARCH 15 TO MAY 31
 FALL SEEDING: AUGUST 15 TO OCTOBER 15
 - THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RE-SEEDING 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.
- SEE SEED MIX CHART ON SHEET L-1 FOR SEED MIX TYPES
- SEEDING TO TAKE PLACE AFTER THE OCCURRENCE OF THE SEASONAL HIGH WATER

GENERAL NOTES:

- CALL 1-800-DIGSAFE BEFORE CONSTRUCTION
- INSTALL MINIMUM OF 2" OF GOOD QUALITY, SCREENED LOAM IN ALL PLANTING AREAS UNLESS OTHERWISE NOTED
- LOAM & SEED ALL DISTURBED AREAS WITH SEED MIX A UNLESS OTHERWISE NOTED
- THE BASE INFORMATION ON THIS PLAN WAS COMPILED FROM DRAWINGS BY NORTHEAST ENGINEERING CO. THIS IS NOT A REGISTERED SURVEY. TO THE BEST OF OUR KNOWLEDGE, THIS DRAWING IS A TRUE REPRESENTATION OF THE ACTUAL FIELD CONDITIONS



*NOTE: DISTRIBUTE RIP-RAP DISPLACED BY PLANTINGS EQUALLY AMONG REMAINING RIP-RAPPED AREAS

BEACH POND

SAVE & PROTECT VEGETATION
 PROPOSED DOCK
 R&D
 EXST. VEGETATION

EDGE OF WATER (TYP.)
 SILT FENCE AT LIMIT OF DISTURBANCE (TYP.)

LOAM & SEED WITH MIX A

ADD 1" OF LOAM, THEN SEED WITH SEED MIX B

PROPOSED 4' W PATH
 REMOVE RIP-RAP IN PLANTED AREAS* (TYP.)
 EDGE OF WATER (TYP.)
 RIP-RAP TO REMAIN (TYP.)
 SILT FENCE AT LIMIT OF DISTURBANCE (TYP.)

PROPOSED 8' W PATH

REMOVE RIP-RAP IN PLANTED AREAS* (TYP.)

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