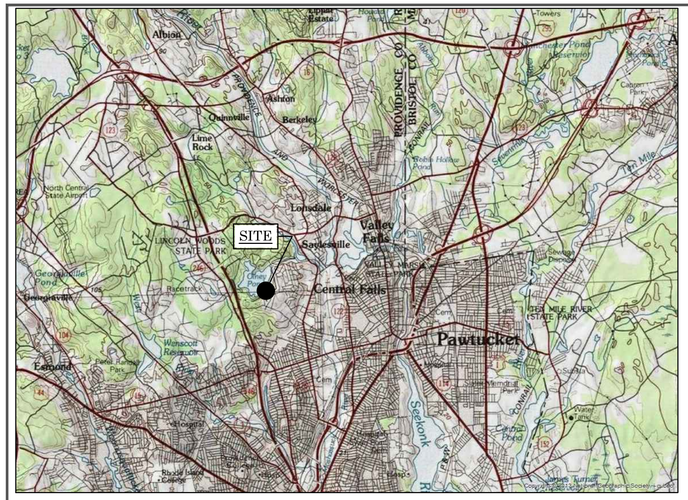

LOCUS MAP

STATE OF RHODE ISLAND

D ■ E ■ M

PROJECT LOCATION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DIVISION OF PLANNING AND DEVELOPMENT

FRESHWATER BOAT LAUNCH FACILITY IMPROVEMENTS

LINCOLN WOODS STATE PARK
OLNEY POND

P&D CONTRACT NUMBER 02-20
FEBRUARY 2020

LIST OF DRAWINGS

C1 - EXISTING CONDITIONS
C2 - DEMOLITION PLAN
C3 - WATER CONTROL, SOIL EROSION AND SEDIMENT CONTROL PLAN
C4 - PROPOSED SITE PLAN
C5 - BOAT RAMP DETAILS
C6 - FLOATING DOCK AND CONCRETE ABUTMENT DETAILS
C7- KAYAK LAUNCH DETAILS

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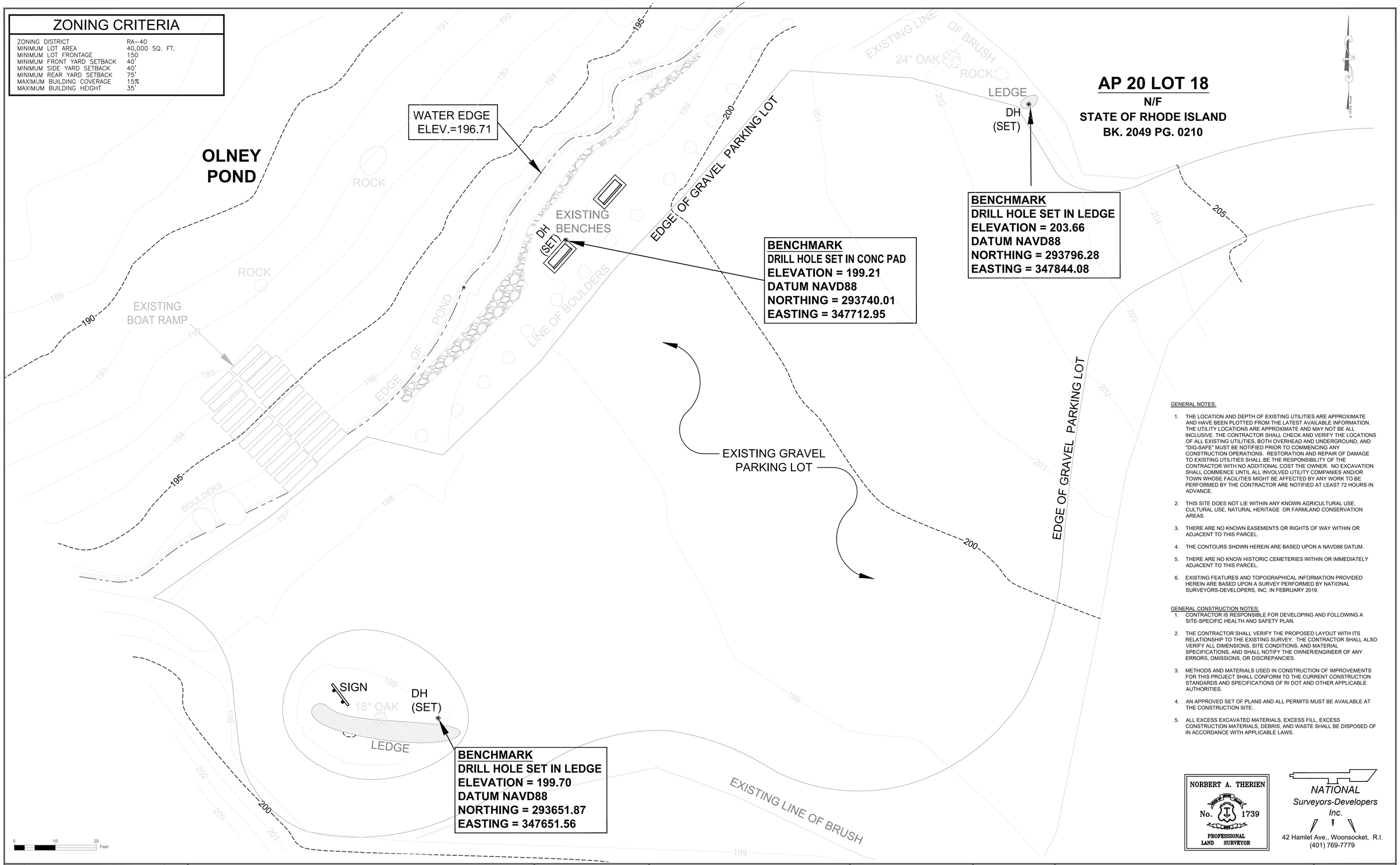
1-888-DIG-SAFE
PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

ZONING CRITERIA

ZONING DISTRICT	RA-40
MINIMUM LOT AREA	40,000 SQ. FT.
MINIMUM LOT FRONTAGE	150
MINIMUM FRONT YARD SETBACK	40'
MINIMUM SIDE YARD SETBACK	40'
MINIMUM REAR YARD SETBACK	75'
MAXIMUM BUILDING COVERAGE	15%
MAXIMUM BUILDING HEIGHT	35'



GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
2. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, CULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.
3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.
4. THE CONTOURS SHOWN HEREIN ARE BASED UPON A NAVD88 DATUM.
5. THERE ARE NO KNOW HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.
6. EXISTING FEATURES AND TOPOGRAPHICAL INFORMATION PROVIDED HEREIN ARE BASED UPON A SURVEY PERFORMED BY NATIONAL SURVEYORS-DEVELOPERS, INC. IN FEBRUARY 2019.

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND FOLLOWING A SITE-SPECIFIC HEALTH AND SAFETY PLAN.
2. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS, AND SHALL NOTIFY THE OWNER/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES.
3. METHODS AND MATERIALS USED IN CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF RI DOT AND OTHER APPLICABLE AUTHORITIES.
4. AN APPROVED SET OF PLANS AND ALL PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
5. ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, DEBRIS, AND WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.

NORBERT A. THERIEN
No. 1739
PROFESSIONAL LAND SURVEYOR

NATIONAL Surveyors-Developers Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

No.	Description	Date
1		
2		

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

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FRESHWATER BOAT RAMP IMPROVEMENTS

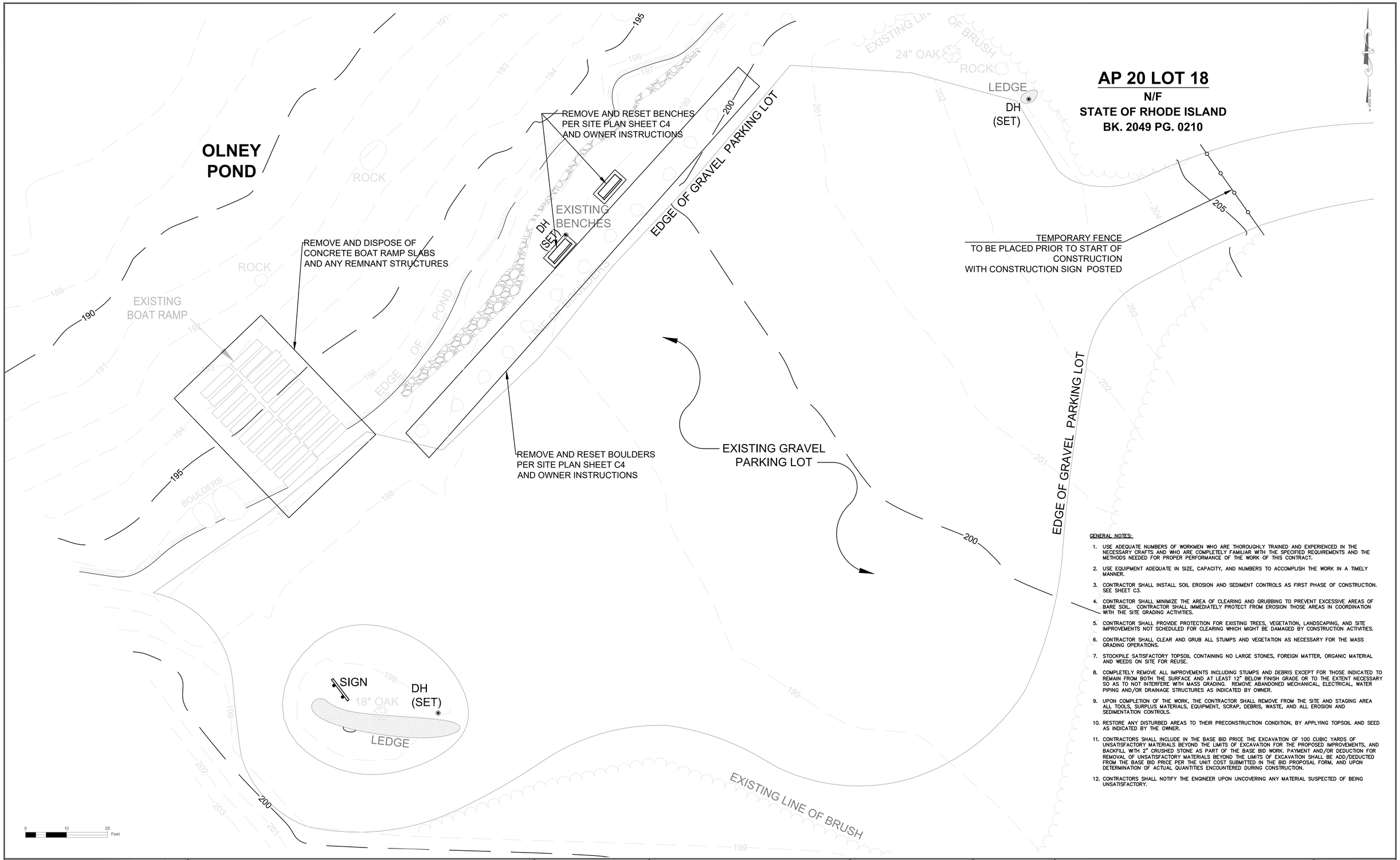
LINCOLN WOODS STATE PARK

Design by: JRT
Drawn by: JRT
Checked by:
Date: August, 2019
Scale: As Noted
P&D Project No.:

OLNEY POND BOAT LAUNCH EXISTING CONDITIONS

C1

SHEET 2 OF 8



GENERAL NOTES:

1. 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.
2. USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND NUMBERS TO ACCOMPLISH THE WORK IN A TIMELY MANNER.
3. CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENT CONTROLS AS FIRST PHASE OF CONSTRUCTION. SEE SHEET C3.
4. 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.
5. CONTRACTOR SHALL PROVIDE PROTECTION FOR EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL CLEAR AND GRUB ALL STUMPS AND VEGETATION AS NECESSARY FOR THE MASS GRADING OPERATIONS.
7. STOCKPILE SATISFACTORY TOPSOIL CONTAINING NO LARGE STONES, FOREIGN MATTER, ORGANIC MATERIAL AND WEEDS ON SITE FOR REUSE.
8. COMPLETELY REMOVE ALL IMPROVEMENTS INCLUDING STUMPS AND DEBRIS EXCEPT FOR THOSE INDICATED TO REMAIN FROM BOTH THE SURFACE AND AT LEAST 12" BELOW FINISH GRADE OR TO THE EXTENT NECESSARY SO AS TO NOT INTERFERE WITH MASS GRADING. REMOVE ABANDONED MECHANICAL, ELECTRICAL, WATER PIPING AND/OR DRAINAGE STRUCTURES AS INDICATED BY OWNER.
9. 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.
10. RESTORE ANY DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION, BY APPLYING TOPSOIL AND SEED AS INDICATED BY THE OWNER.
11. CONTRACTORS SHALL INCLUDE IN THE BASE BID PRICE THE EXCAVATION OF 100 CUBIC YARDS OF UNSATISFACTORY MATERIALS BEYOND THE LIMITS OF EXCAVATION FOR THE PROPOSED IMPROVEMENTS, AND BACKFILL WITH 2" CRUSHED STONE AS PART OF THE BASE BID WORK. PAYMENT AND/OR DEDUCTION FOR REMOVAL OF UNSATISFACTORY MATERIALS BEYOND THE LIMITS OF EXCAVATION SHALL BE ADD/DEDUCTED FROM THE BASE BID PRICE PER THE UNIT COST SUBMITTED IN THE BID PROPOSAL FORM, AND UPON DETERMINATION OF ACTUAL QUANTITIES ENCOUNTERED DURING CONSTRUCTION.
12. CONTRACTORS SHALL NOTIFY THE ENGINEER UPON UNCOVERING ANY MATERIAL SUSPECTED OF BEING UNSATISFACTORY.

No.	Description	Date
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

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FRESHWATER BOAT RAMP IMPROVEMENTS

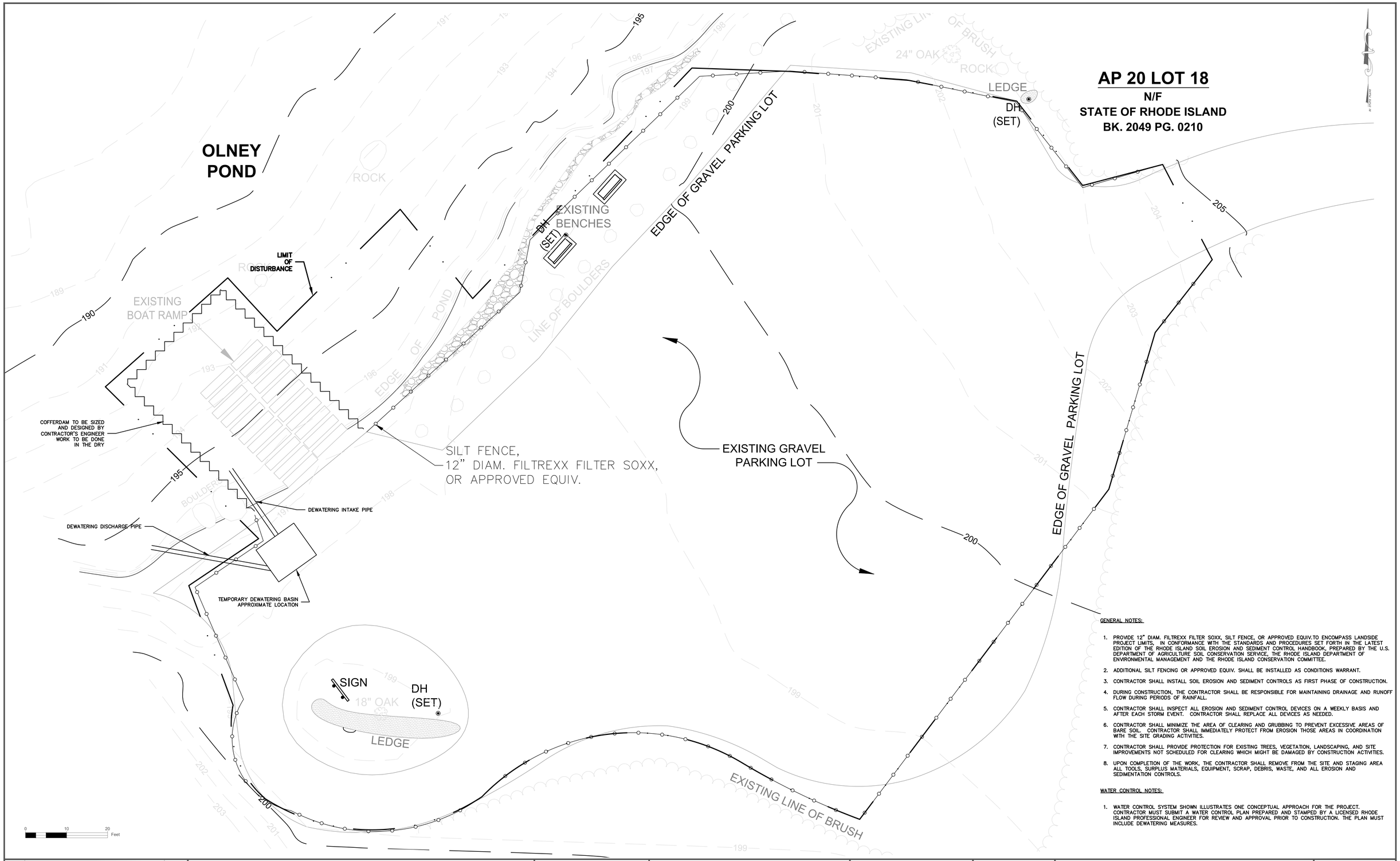
LINCOLN WOODS STATE PARK

Design by: JRT
Drawn by: JRT
Checked by:
Date: August, 2019
Scale: As Noted
P&D Project No.:

OLNEY POND BOAT LAUNCH DEMOLITION PLAN

C2

SHEET 3 OF 8



GENERAL NOTES:

1. PROVIDE 12" DIAM. FILTREXX FILTER SOXX, SILT FENCE, OR APPROVED EQUIV.TO ENCOMPASS LANDSIDE PROJECT LIMITS, 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.
2. ADDITIONAL SILT FENCING OR APPROVED EQUIV. SHALL BE INSTALLED AS CONDITIONS WARRANT.
3. CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENT CONTROLS AS FIRST PHASE OF CONSTRUCTION.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
5. 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.
6. 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.
7. CONTRACTOR SHALL PROVIDE PROTECTION FOR EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
8. 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.

WATER CONTROL NOTES:

1. WATER CONTROL SYSTEM SHOWN ILLUSTRATES ONE CONCEPTUAL APPROACH FOR THE PROJECT. CONTRACTOR MUST SUBMIT A WATER CONTROL PLAN PREPARED AND STAMPED BY A LICENSED RHODE ISLAND PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE PLAN MUST INCLUDE DEWATERING MEASURES.

No.	Description	Date
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STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

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FRESHWATER BOAT RAMP IMPROVEMENTS

LINCOLN WOODS STATE PARK

Design by: JRT
Drawn by: JRT
Checked by:
Date: August, 2019
Scale: As Noted
P&D Project No.:

OLNEY POND BOAT LAUNCH WATER CONTROL, SOIL EROSION AND SEDIMENT CONTROL

C3

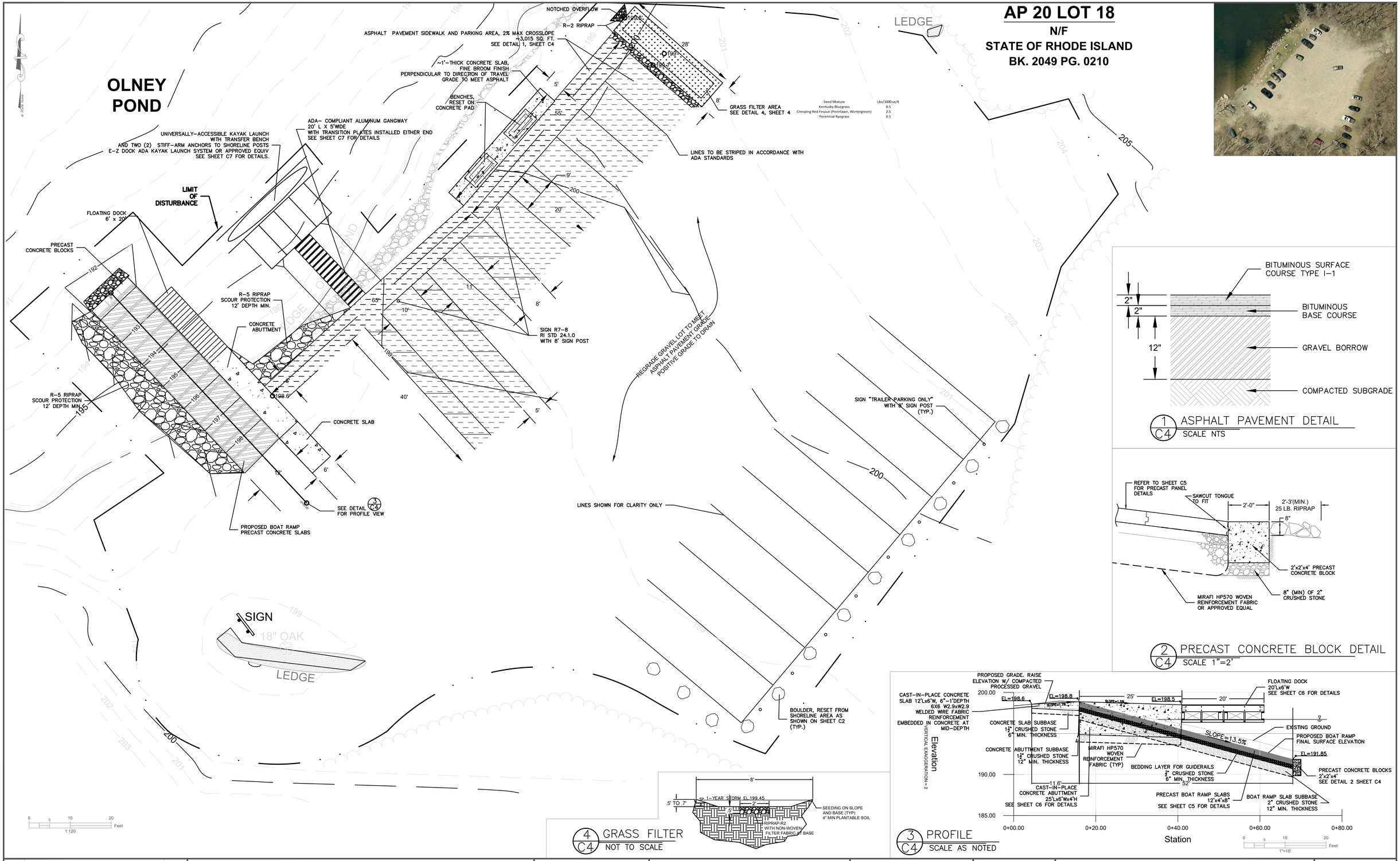
SHEET 4 OF 8

AP 20 LOT 18

N/F

STATE OF RHODE ISLAND

BK. 2049 PG. 0210



Seed Mixture	Lbs/1000 sq ft
Kentucky Bluegrass	0.5
Creeping Red Fescue (Pennlawn, Wintergreen)	2.5
Perennial Ryegrass	0.5

1/C4 ASPHALT PAVEMENT DETAIL
SCALE NTS

2/C4 PRECAST CONCRETE BLOCK DETAIL
SCALE 1"=2'

3/C4 PROFILE
SCALE AS NOTED

4/C4 GRASS FILTER
NOT TO SCALE

No.	Description	Date
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2		

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

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FRESHWATER BOAT RAMP IMPROVEMENTS

LINCOLN WOODS STATE PARK

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Scale: As Noted
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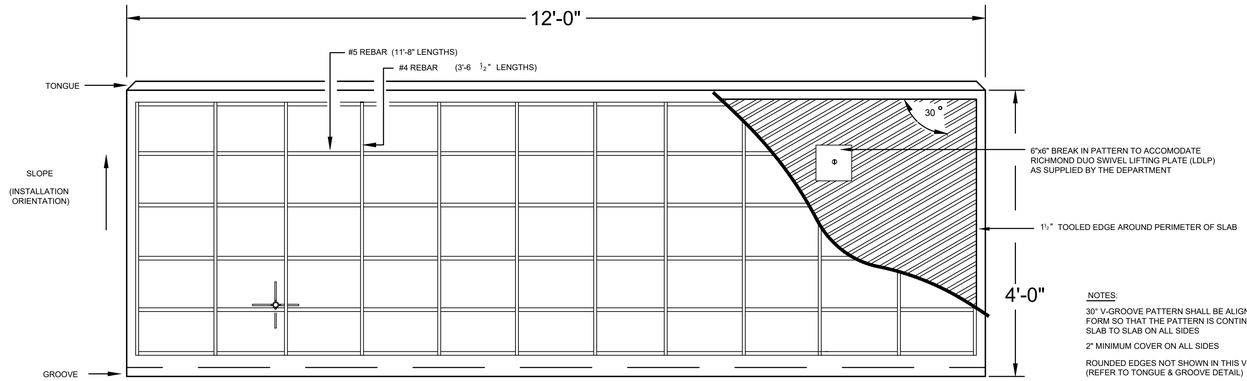
OLNEY POND BOAT LAUNCH
PROPOSED SITE PLAN

C4

SHEET 5 OF 8



PLAN VIEW

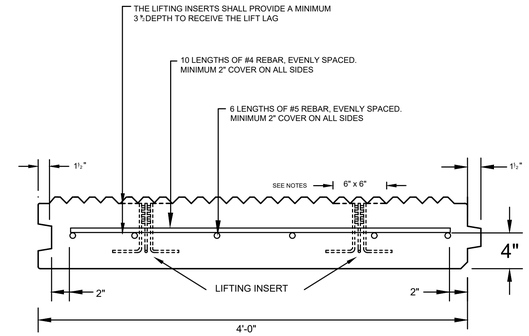
SCALE 1" = 1'-0"

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 & GROOVE DETAIL)



TYPICAL END VIEW

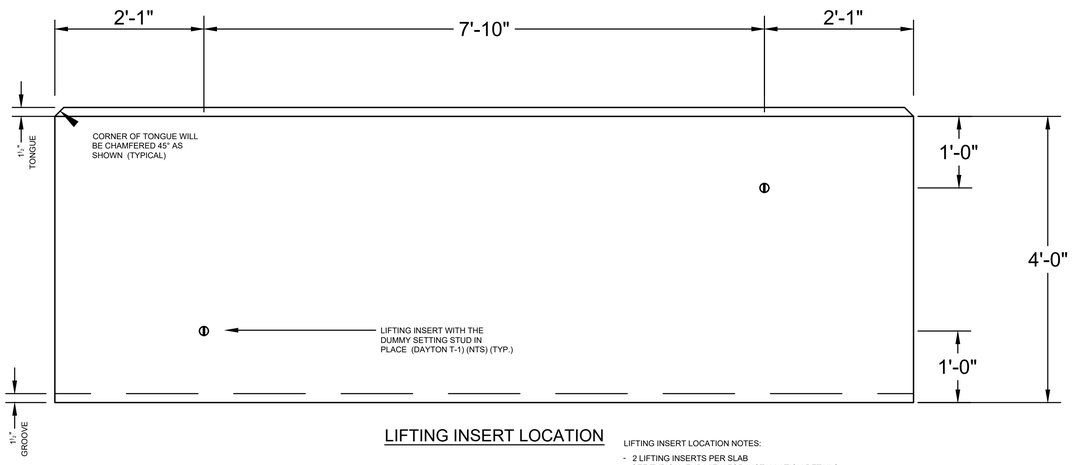
SCALE 1-1/2" = 1'-0"

1. THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OWNS THREE STEEL FORMS FOR THIS SHAPE SLAB. ARRANGEMENTS WILL BE MADE WITH THE CONTRACTOR FOR USE OF THE FORMS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING FORMS FOR USE INCLUDING, SANDBLASTING, SANDING, SMOOTHING, CAULKING, SEALING, AND OILING.
3. SLABS SHALL NOT BE STACKED MORE THAN 4 HIGH AND MUST HAVE WOODEN SPACERS BETWEEN THE ROWS. ANY CHIPPING WILL RESULT IN REJECTION OF THE SLAB.

NOTES:

PATTERN IS BROKEN TO ACCOMMODATE LIFTING APPARATUS AS SHOWN IN PLAN VIEW

COILS OF THE INSERTS SHALL NOT EXTEND ABOVE THE CONCRETE SURFACE (AS SHOWN)

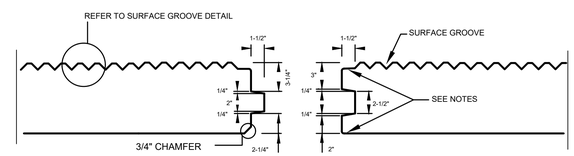


LIFTING INSERT LOCATION

SCALE 1" = 1'-0"

LIFTING INSERT LOCATION NOTES:

- 2 LIFTING INSERTS PER SLAB SEE TYPICAL END VIEW FOR INSTALLATION DETAILS
- LIFTING INSERTS AND DUMMY SETTING STUDS WILL BE STAINLESS STEEL.
- ROUNDED EDGES NOT SHOWN IN THIS VIEW



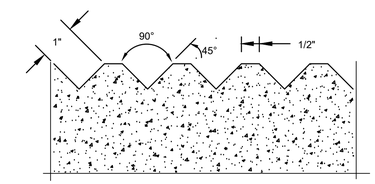
TYPICAL TONGUE AND GROOVE DETAIL

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

NOTES:

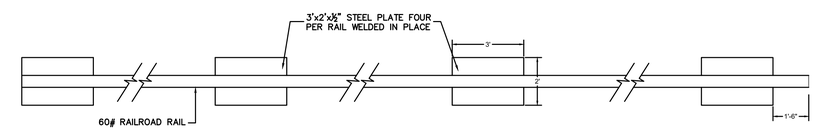
1½" EDGE, ROUNDED AT ALL TOP SURFACE EDGES, AS SHOWN (TYPICAL)

ROUNDED EDGES SHALL HAVE A RADIUS NO GREATER THAN ¼"



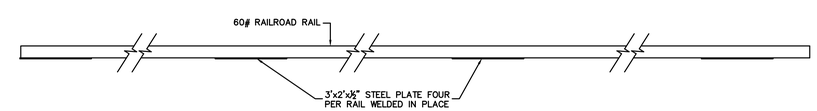
SURFACE GROOVE DETAIL

SCALE 1/2" = 1"



GUIDE RAIL PLAN

SCALE 1"=3'

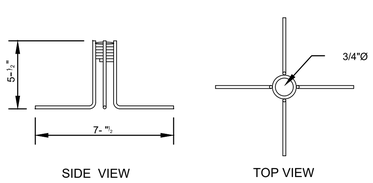


GUIDE RAIL ELEVATION

SCALE 1"=3'

NOTE:

1. THE CONTRACTOR MAY CONSTRUCT THE GUIDEWAY SYSTEM WITH USED RAILROAD RAILS UPON APPROVAL OF THE OWNER AND ENGINEER.
2. ALL BOAT RAMP SLABS SHALL BEAR EVENLY ON TWO RAILS
3. RAILS SHALL BE USED AS A GUIDE TO SCREENED PEA STONE AND ENSURE UNIFORM STONE BEARING SURFACE OVER ENTIRE BOAT RAMP SLAB.

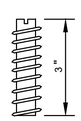


LIFTING INSERT

NOT TO SCALE

NOTES:

LIFTING INSERTS SHALL BE DAYTON 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.

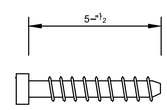


DUMMY SETTING STUD

NOT TO SCALE

NOTES:

DUMMY SETTING STUDS FOR THE LIFTING INSERTS SHALL BE 3/4"Ø x 3" LONG PLASTIC OR APPROVED EQUAL

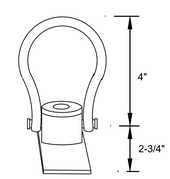


LIFT LAG

NOT TO SCALE

NOTES:

LIFT LAGS FOR ANCHORING DOUBLE SWIVEL LIFTING PLATES SHALL BE 3/4"Ø x 5-1/2" LONG DAYTON LIFT LAGS OR APPROVED EQUAL BEING OF THE SAME BRAND AS THE LIFTING INSERTS AND COMPATIBLE WITH RICHMOND DUO SWIVEL LIFTING PLATES (LDLP)



DOUBLE SWIVEL LIFTING PLATE

NOT TO SCALE

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 5". SAFE WORKING LOAD: 13,000 lbs.

No.	Description	Date
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2		

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FRESHWATER BOAT RAMP IMPROVEMENTS

LINCOLN WOODS STATE PARK

Design by:	JRT
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Date:	August, 2019
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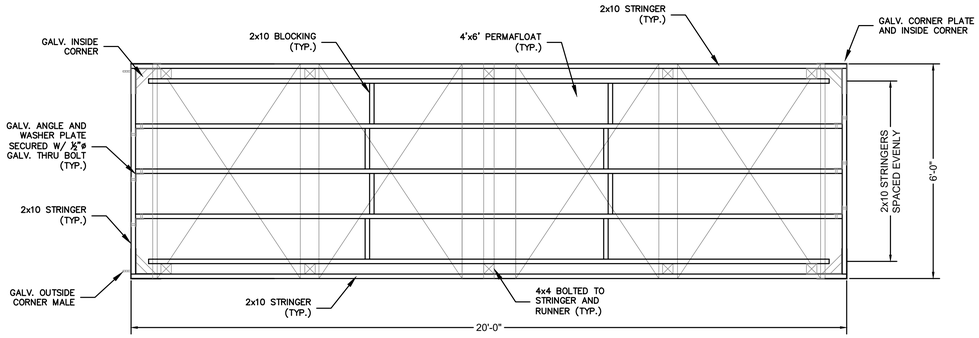
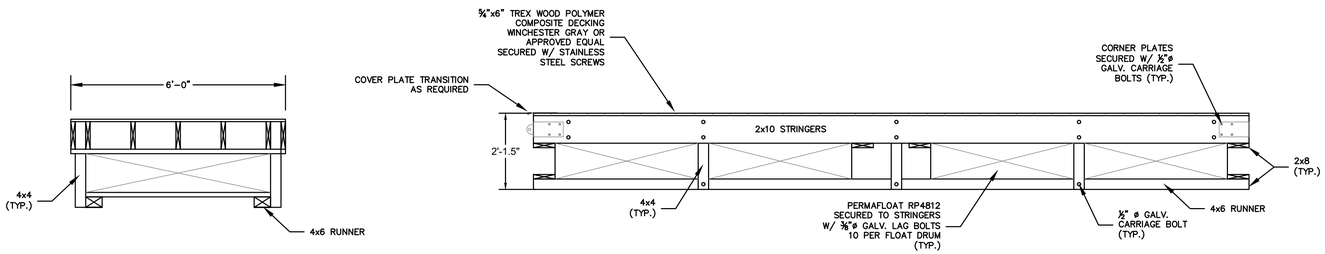
OLNEY POND BOAT LAUNCH RAMP SLAB DETAILS

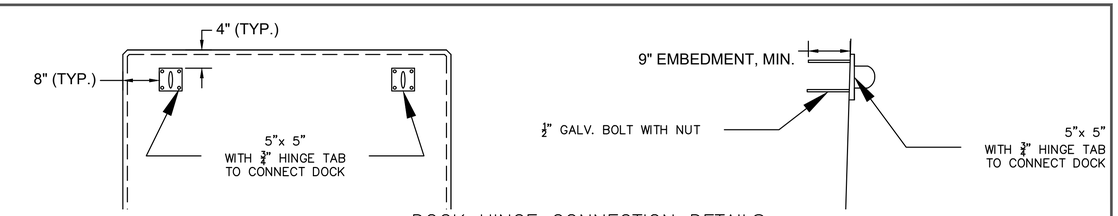
C5

SHEET 6 OF 8

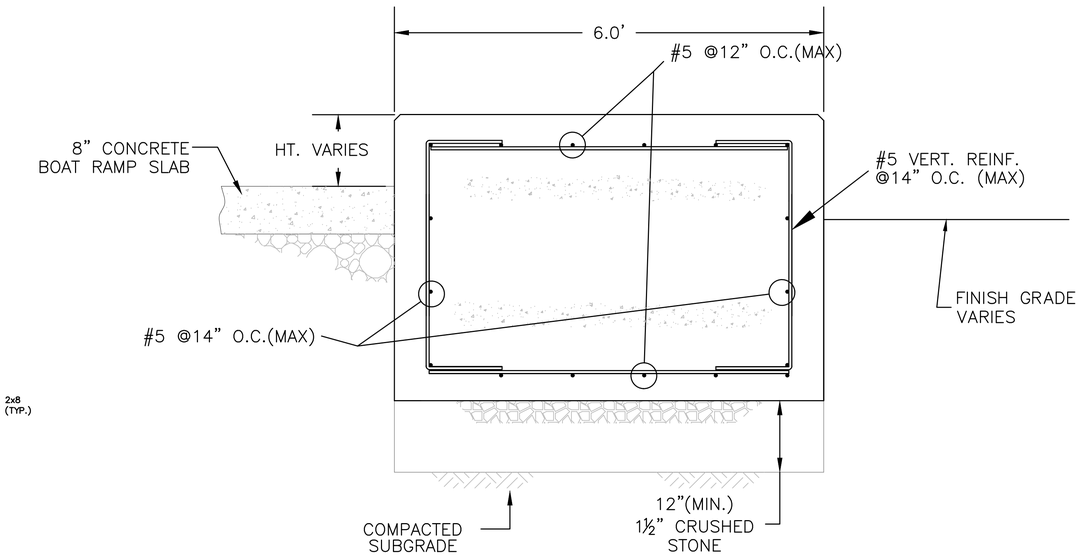




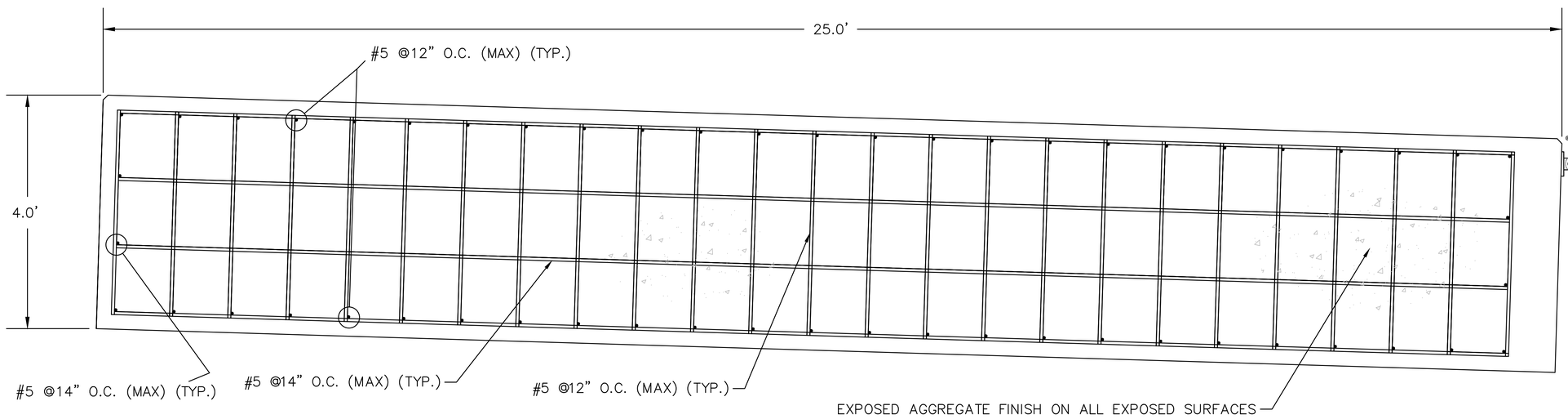
FLOATING DOCK DETAILS



DOCK HINGE CONNECTION DETAILS

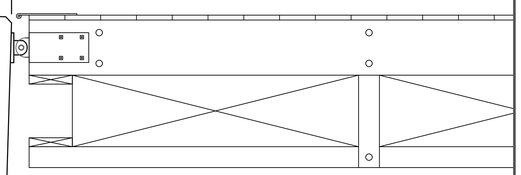


CONCRETE ABUTMENT SECTION, TYP.



CONCRETE ABUTMENT PROFILE, TYP.

SCALE 1"=1'



GENERAL NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS.
2. STRUCTURAL PLANS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR USE AS SHOP DRAWINGS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTINUOUSLY PROTECT SOILS, CONCRETE, MASONRY AND OTHER BUILDING MATERIALS FROM DAMAGE DUE TO COLD TEMPERATURES. CAST-IN-PLACE CONCRETE SHALL NOT BE CONSTRUCTED ON FROZEN GROUND. ALL FROZEN SOIL SHALL BE REMOVED AND REPLACED WITH CRUSHED STONE. FROZEN MATERIALS CONTAINING ICE SHALL NOT BE USED.
4. ALL CAST-IN-PLACE CONCRETE SHALL CONFORM WITH ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE AND BUILDINGS.
5. ALL REINFORCING STEEL SHALL BE EPOXY-COATED IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL CONFORM TO ASTM A615 GRADE 60, AND SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 "STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
6. REINFORCING STEEL SHALL HAVE A 3" MIN. CONCRETE COVER.
7. ALL REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPOSED LOCATION PRIOR TO AND DURING PLACEMENT OF CONCRETE USING APPROVED CHAIRS, SPACERS, AND TIE WIRE AS REQUIRED.
8. ALL EXPOSED EDGES OF CAST-IN-PLACE CONCRETE SHALL HAVE A 1" CHAMFER.

No.	Description	Date
1		
2		

REVISIONS:

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

The Nature Conservancy
Protecting nature. Preserving life.

FRESHWATER BOAT RAMP IMPROVEMENTS

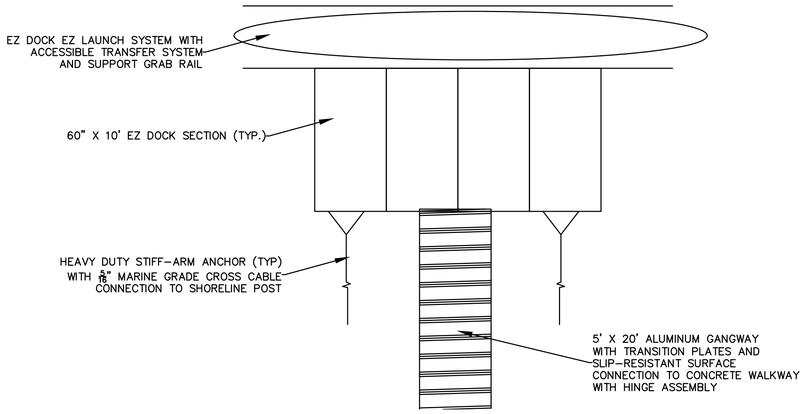
LINCOLN WOODS STATE PARK

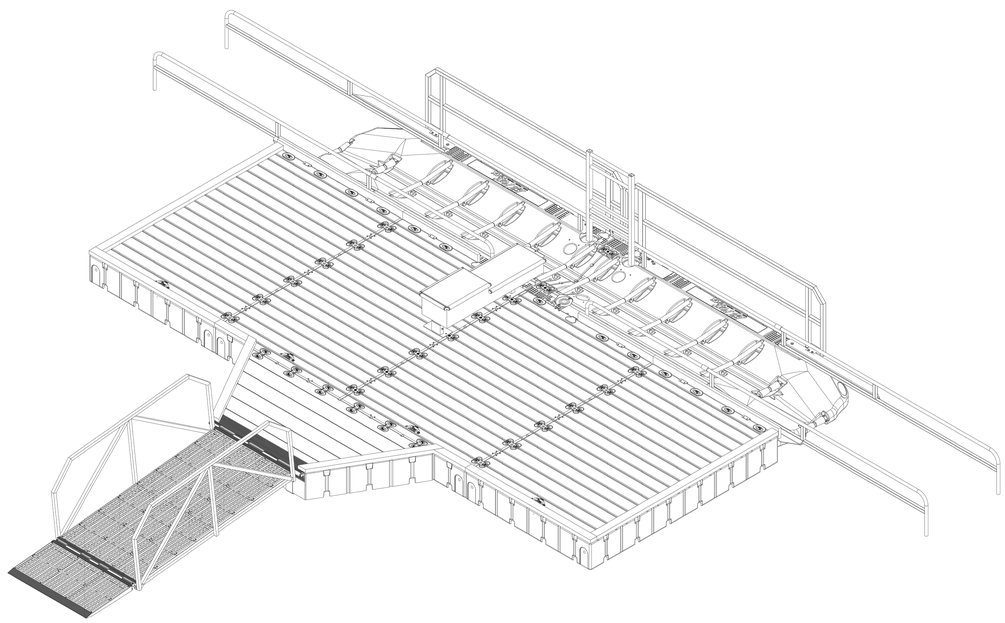
Design by: JRT
Drawn by: JRT
Checked by:
Date: August, 2019
Scale: As Noted
P&D Project No.:

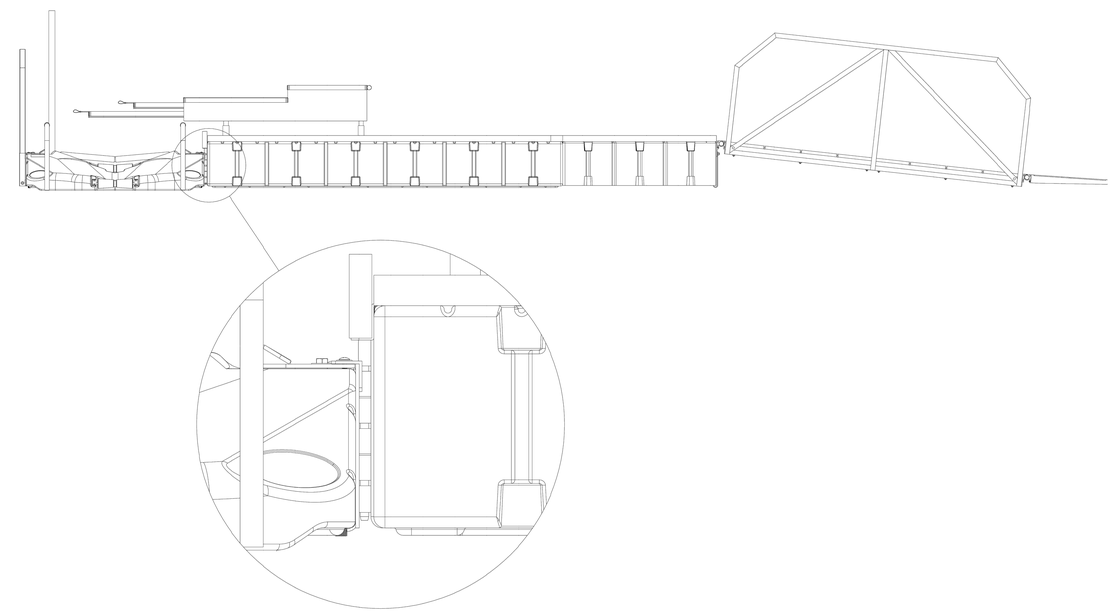
OLNEY POND BOAT LAUNCH FLOATING DOCK AND CONCRETE ABUTMENT DETAILS

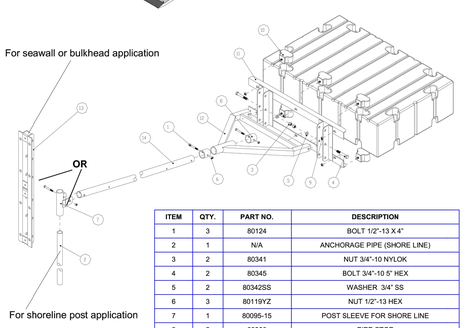
C6

SHEET 7 OF 8









ITEM	QTY.	PART NO.	DESCRIPTION
1	3	80124	BOLT 1/2"-13 X 4"
2	1	N/A	ANCHORAGE PIPE (SHORE LINE)
3	2	80341	NUT 3/4"-10 NYLOK
4	2	80345	BOLT 3/4"-10 5" HEX
5	2	80342SS	WASHER 3/4" SS
6	3	80119YZ	NUT 1/2"-13 HEX
7	1	80095-15	POST SLEEVE FOR SHORE LINE
8	2	80900	PIPE STOP
9	6	80580SS	NUT 5/8" SELF LOCKING
10	6	S21140SS	HARDWARE CONNECTOR 5/8" MALE
11	1	S80090	MAIN FRAME TO DOCK BRK
12	1	S80091	A-FRAME YOKE BRK
13	1	S80094	SEA WALL BRACKET
14	1	N/A	ANCHORAGE PIPE 2-3/8"

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The first dock of its kind...The last dock you will ever need.®

No.	Description	Date
1		
2		

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OLNEY POND BOAT LAUNCH KAYAK LAUNCH DETAILS

C7

SHEET 8 OF 8