


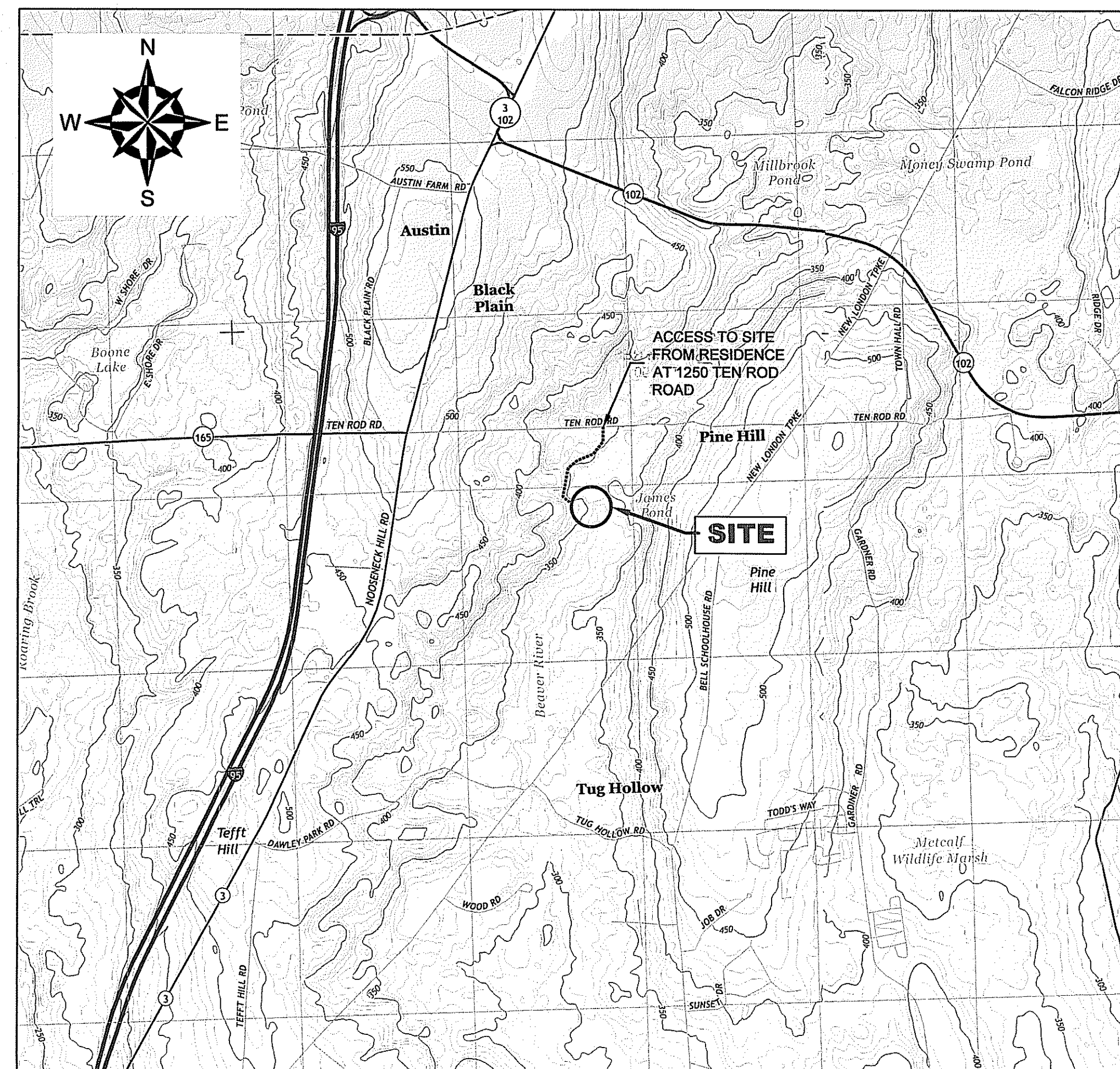
JAMES POND DAM REPAIRS EXETER, RHODE ISLAND MAY, 2017

PREPARED FOR:

JAMES POND REALTY COMPANY, LLC
90 ELM STREET
PROVIDENCE, RHODE ISLAND

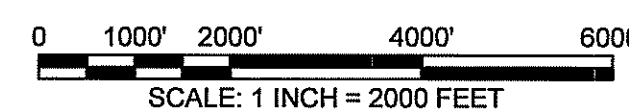
PREPARED BY:

 GZA GEOENVIRONMENTAL, INC.
530 BROADWAY
PROVIDENCE, RHODE ISLAND 02909



PROJECT LOCUS MAP

SOURCE: USGSSTORE.GOV



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SHEET #	SHEET TITLE
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C3	LOW LEVEL OUTLET REPAIRS
C4	SPILLWAY REPAIRS
C5	EMBANKMENT REPAIRS
C6	DETAIL SHEET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 20 2017 FILE # 17-0023
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Christopher D. Sanchez

WILLIAM L. LADD
No. *[Signature]* CCB
REGISTERED PROFESSIONAL ENGINEER
CIVIL

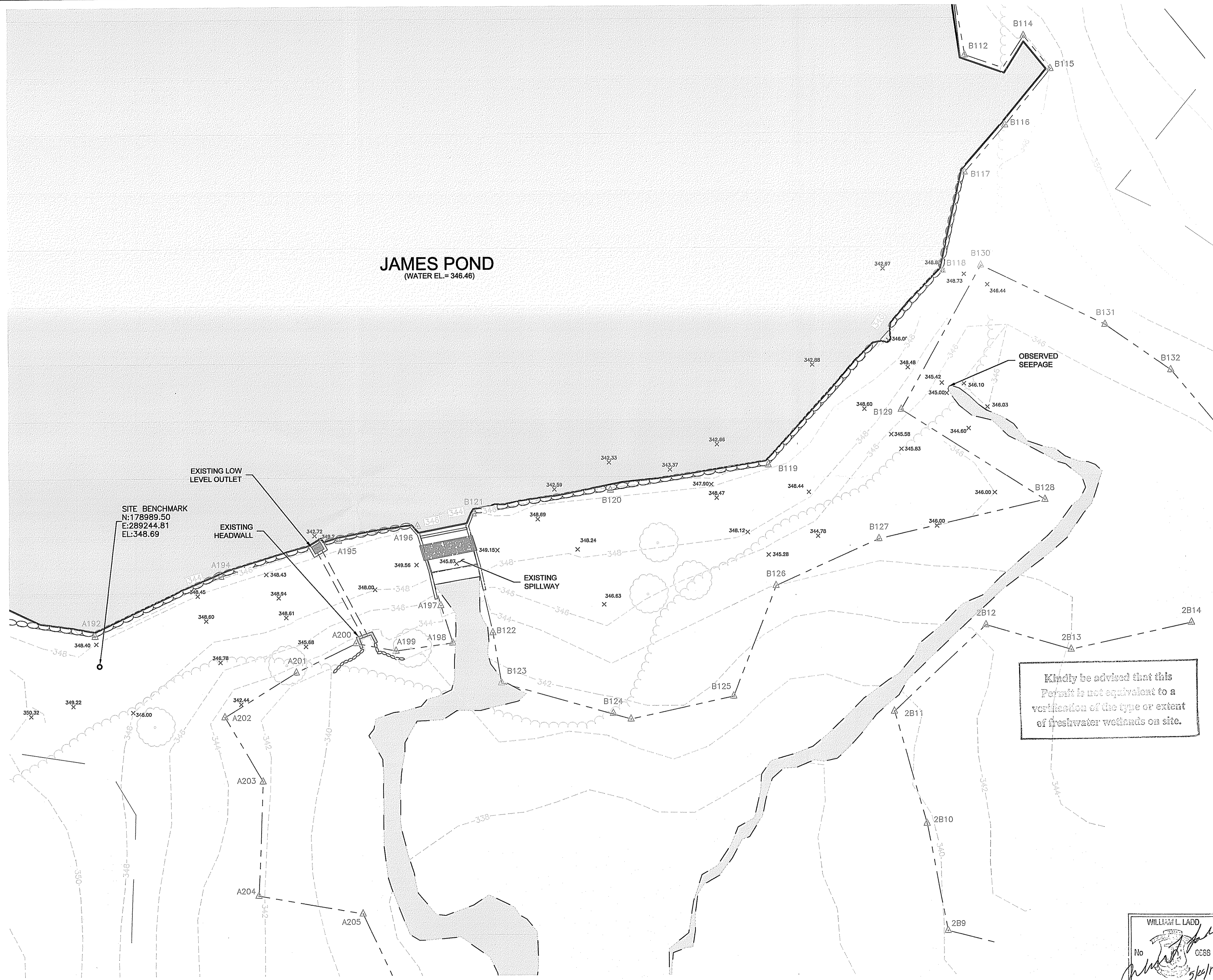
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C0
SHEET C0 OF 7

© 2017 - GZA GeoEnvironmental, Inc. GZA-JR-ENV\34113.03\FIGURES\CAD\DWGS\34113.03_JAMES_POND_DAM.DWG SHEET-C1 MAY 26, 2017 11:23AM GARY BASTIEN

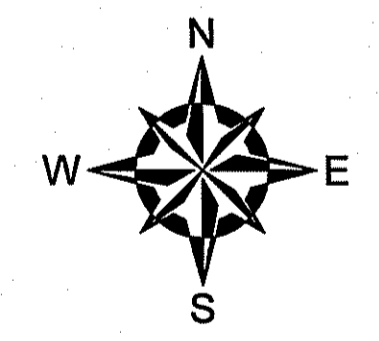
JAMES POND
(WATER EL.= 346.46)



- GENERAL NOTES**
- BASE MAP DEVELOPED FROM EXISTING SITE FEATURES APPROXIMATELY DETERMINED BY THE FOLLOWING:
 - THE LOCATION OF SELECT SITE FEATURES WERE APPROXIMATELY DETERMINED USING A TOPCON 235W AND LEICA GS16 GPS BY GZA PERSONNEL DURING A LIMITED SITE VISIT ON 09-26-2016.
 - SERVICE IMAGES ARE PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT CONSIDERED A LAND SURVEY. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 - THE ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
 - HORIZONTAL DATUM OF 1983 (NAD83) RHODE ISLAND STATE PLAN, US FEET.
 - APPROXIMATE WETLAND BOUNDARIES WERE DELINEATED IN ACCORDANCE WITH THE 1987 UNITED STATES CORPS OF ENGINEERS (ACEE) WETLANDS DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS (ACEE) WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION AND IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS GOVERNING THE ADMINISTRATION AND ENFORCEMENT OF THE FRESH WATER WETLANDS ACT RELEASED JULY 16, 2014.
 - DIGITAL ELEVATION DATA PROVIDED BY RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS). ELEVATION DATA WAS ORIGINALLY PRODUCED BY USGS IN THE WINTER AND SPRING OF 2011 AND RELEASED IN APRIL, 2012.

- LEGEND**
- EXISTING CONTOURS MINOR
 - EXISTING CONTOURS MAJOR
 - PL PROPERTY LINE
 - WETLAND FLAG LINE
 - EXISTING EDGE OF WATER
 - EXISTING RIVER/ STREAM EDGE
 - 50' WETLAND BUFFER
 - EXISTING TREE LINE
 - EXISTING SPOT GRADE
 - EXISTING TREE

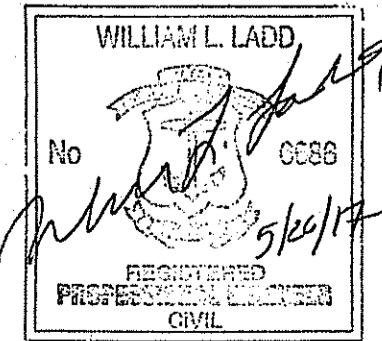
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Matthew D. Wenczek

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JAMES POND DAM REPAIRS
TEN ROD ROAD
RICHMOND, RHODE ISLAND

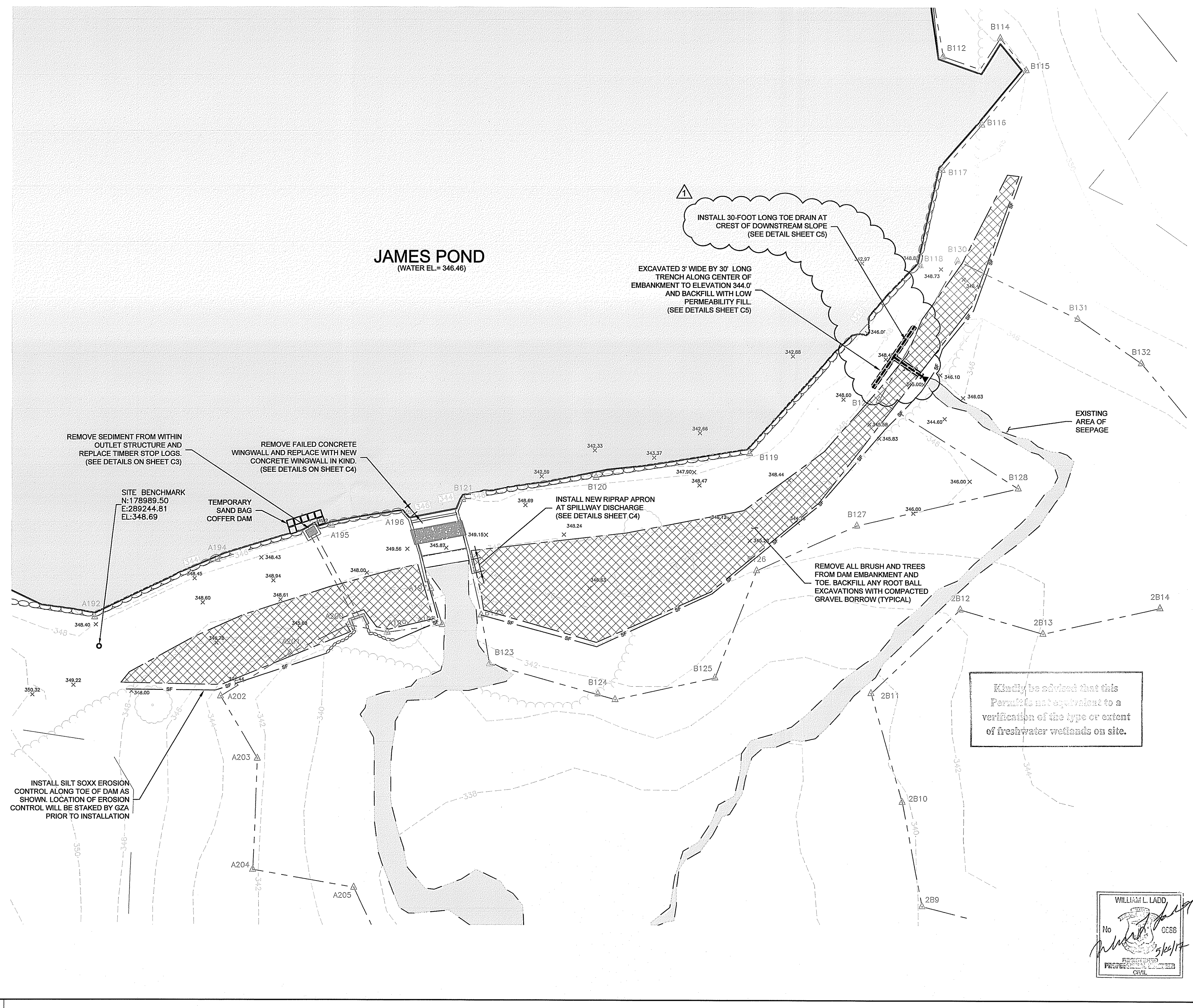
EXISTING CONDITIONS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: JAMES POND REALTY COMPANY, LLC 90 ELM STREET PROVIDENCE, RHODE ISLAND
PROJ MGR: WLL DESIGNED BY: SRR DATE: MAY, 2017	REVIEWED BY: ES DRAWN BY: CRD PROJECT NO. 34113.03
CHECKED BY: MEA SCALE: AS NOTED	REVISION NO.

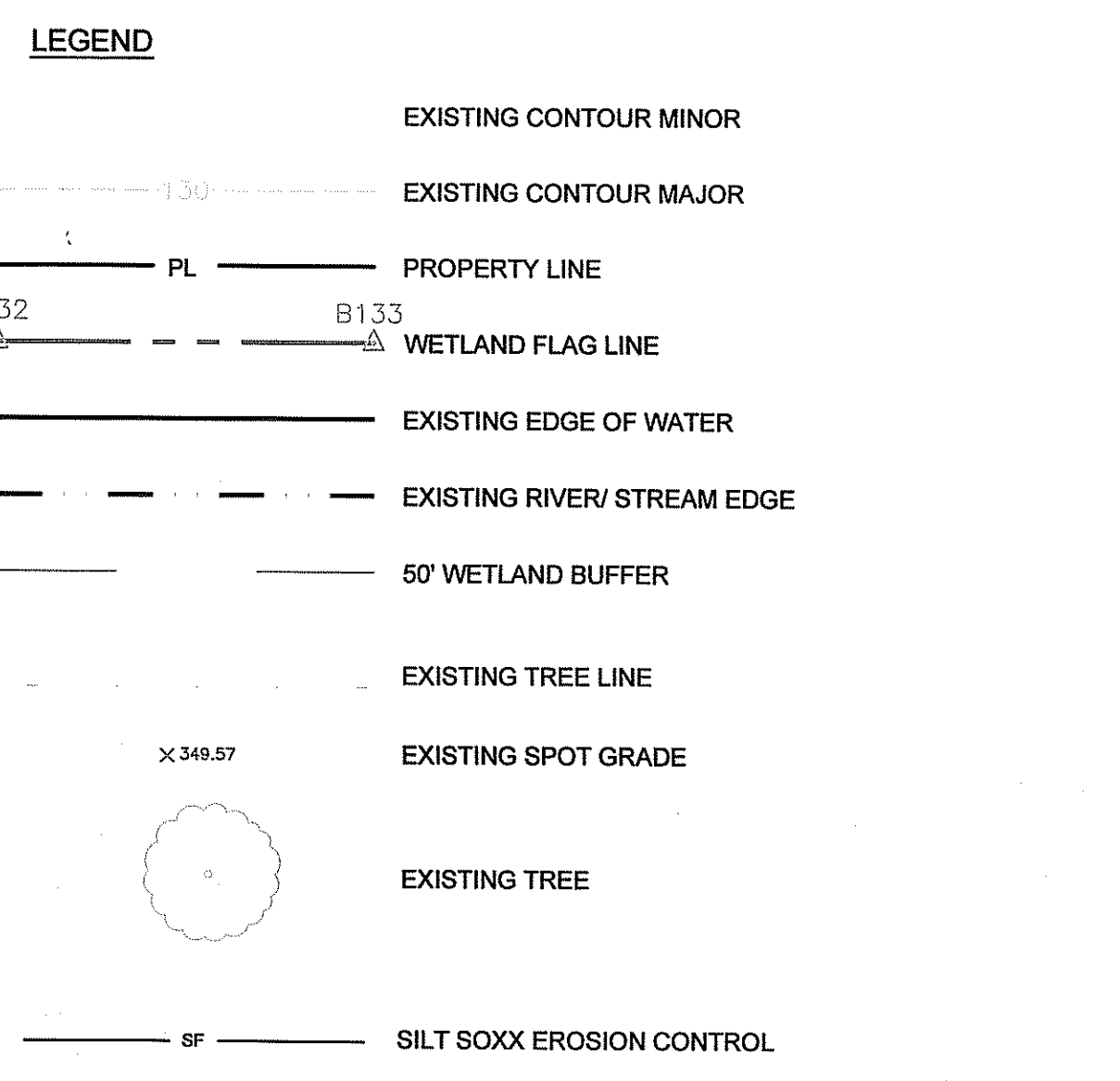
SHEET **C1** OF 6

MAY 26 2017
Clerk of the Court

© 2017 - GZA GeoEnvironmental, Inc. GZA--N:\ENR\34113.03\W\FIGURES\CAD\DWG\SHEET-C2.JAMES_POND_DAM.DWG SHEET-C2 MAY 26, 2017 11:23AM GARY BASTIEN

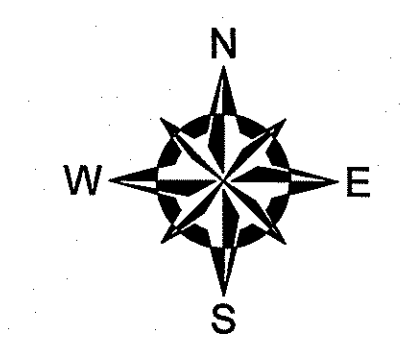


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Christopher D. Senack



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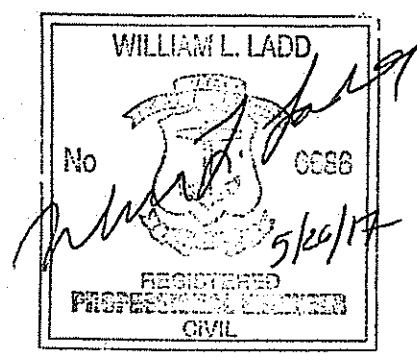
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1	REVISE CUTOFF TO TOE DRAIN	WLL	5-26-17

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JAMES POND DAM REPAIRS
 TEN ROD ROAD
 RICHMOND, RHODE ISLAND

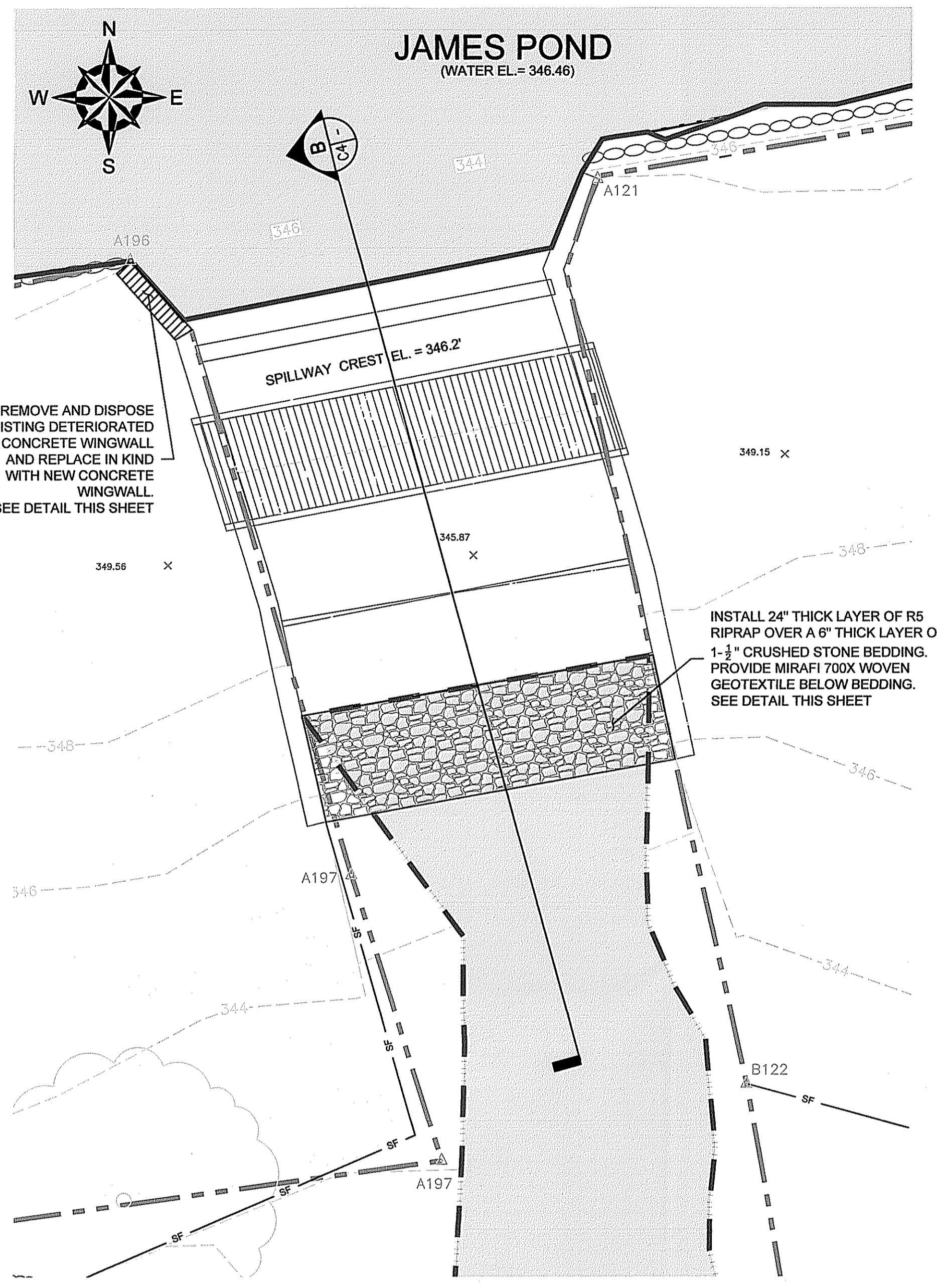
PROPOSED REPAIRS AND SEDIMENTATION AND EROSION CONTROL PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: JAMES POND REALTY COMPANY, LLC 90 ELM STREET PROVIDENCE, RHODE ISLAND
PROJ MGR: WLL DESIGNED BY: SRR DATE: MAY, 2017	REVIEWED BY: ES DRAWN BY: CRD PROJECT NO. 34113.03
CHECKED BY: MEA SCALE: AS NOTED REVISION NO.	SHEET C2 SHEET NO. C2 OF 6

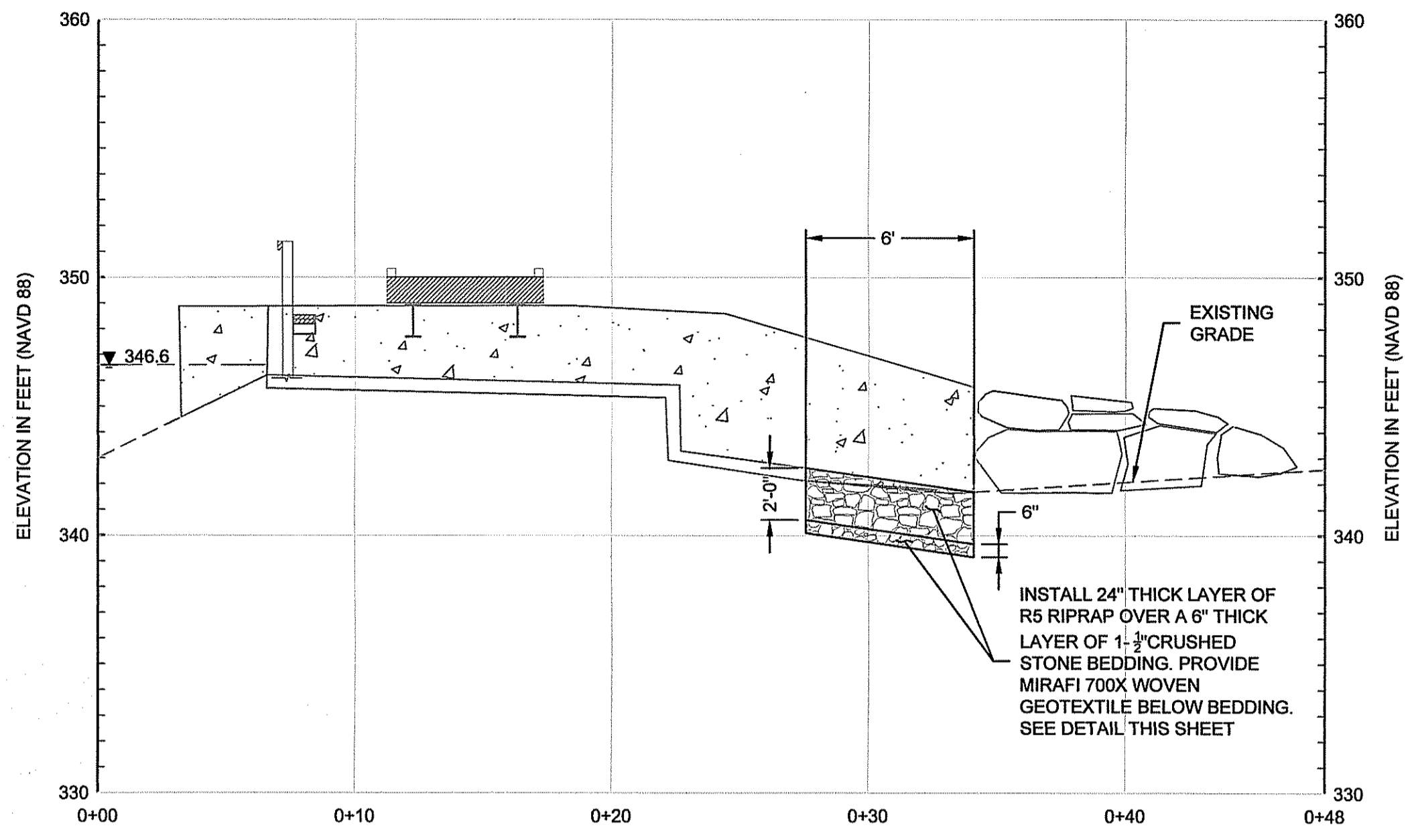


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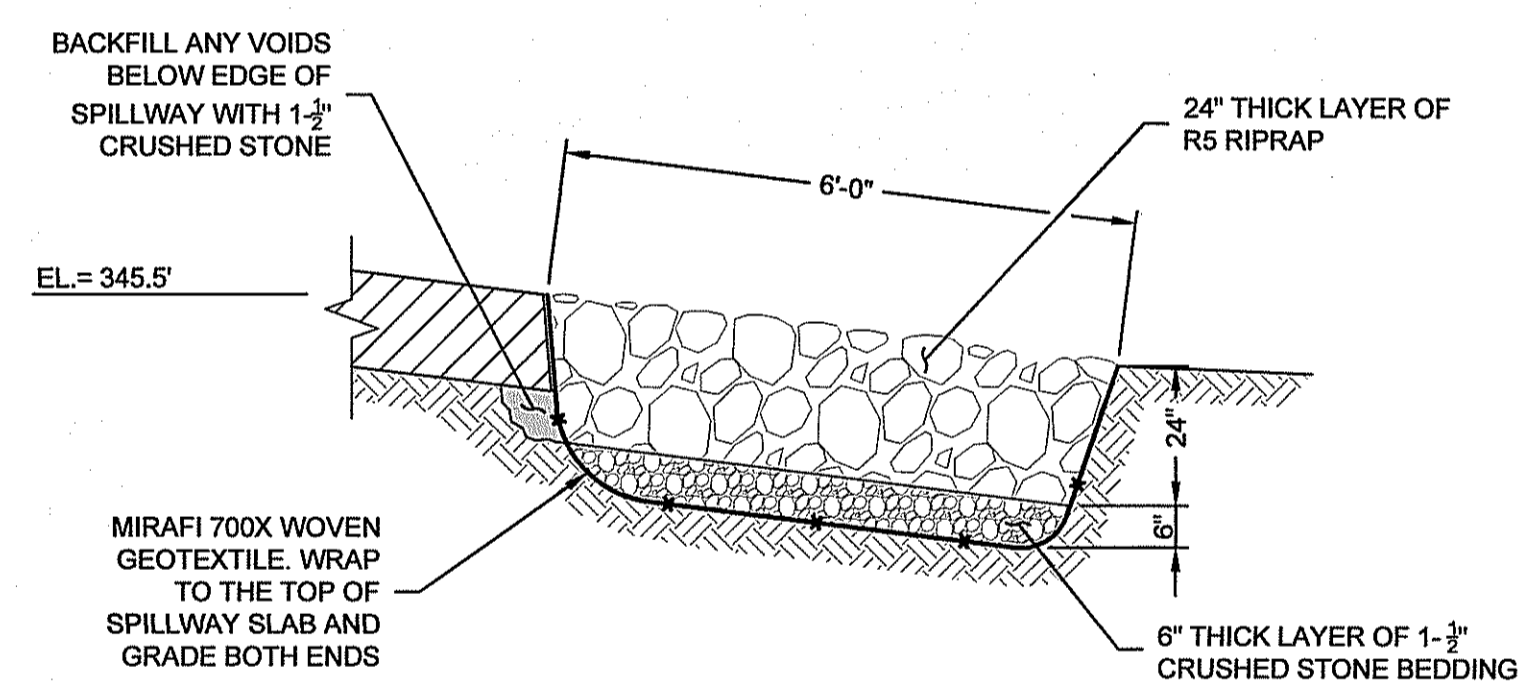
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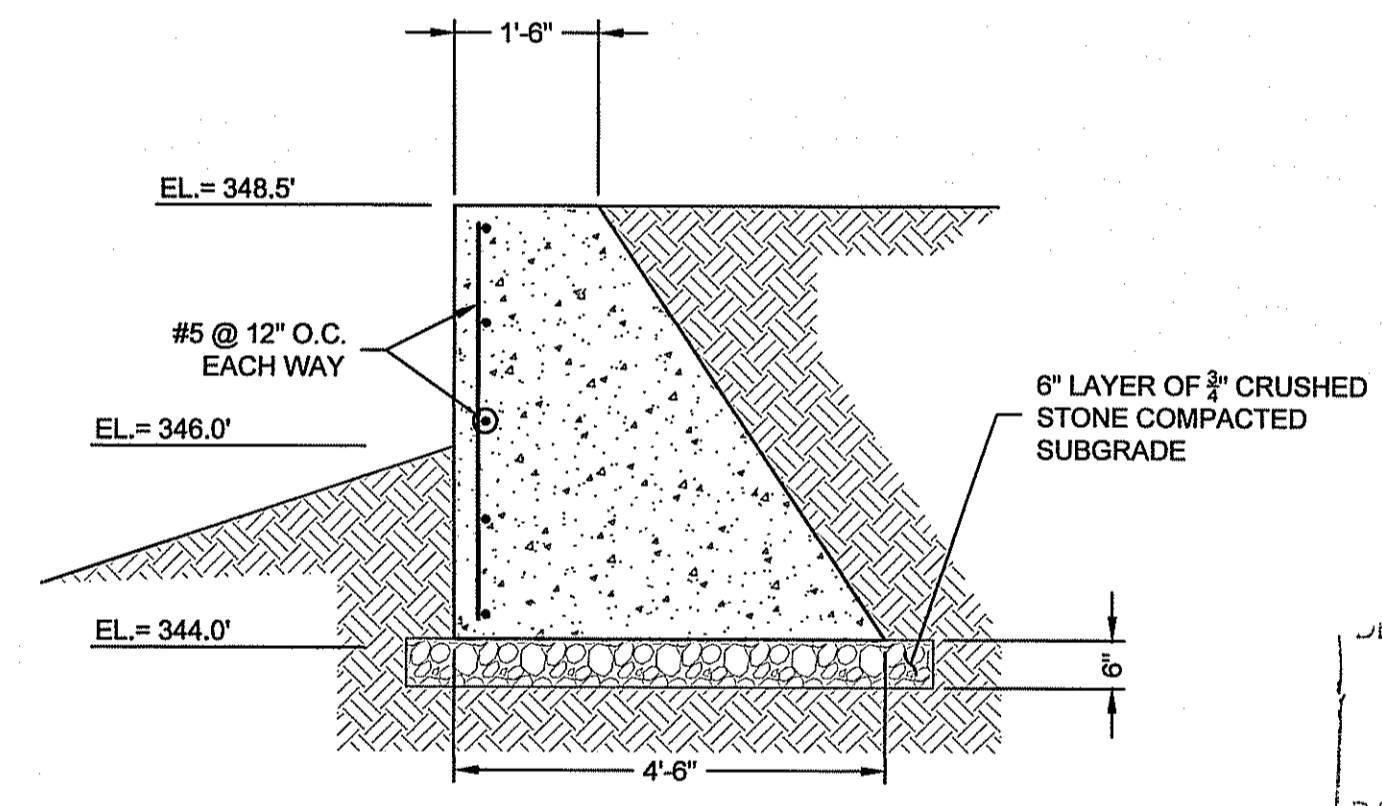
PARTIAL PLAN
SCALE: 1"=5'



B SPILLWAY SECTION
VERTICAL SCALE IN FEET
HORIZONTAL SCALE IN FEET



SPILLWAY RIPRAP DETAIL
SCALE 1"=2'



CONCRETE WINGWALL REPAIR
SCALE 1"=2'

- SPILLWAY REPAIR NOTES**
- SEE CONTROL OF WATER NOTES ON SHEET C6.
 - A TEMPORARY COFFERDAM OF SUPER SACK SAND BAGS OR A PORTA-DAM SYSTEM SHALL BE INSTALLED AS NECESSARY TO ALLOW THE COMPLETION OF THE WORK.
 - THE REPAIRS TO THE SPILLWAY SHALL CONSIST OF THE REPLACEMENT OF THE DETERIORATED NORTHWEST WINGWALL WITH A NEW CONCRETE WALL TO MATCH THE EXISTING, AND THE INSTALLATION OF A RIPRAP APRON AT THE DOWNSTREAM EDGE OF THE SPILLWAY DISCHARGE TO LIMIT FURTHER EROSION AND UNDERMINING OF THE STRUCTURE.
 - THE CONCRETE WINGWALL REPLACEMENT SHALL BE A GRAVITY TYPE WALL IN ACCORDANCE WITH RIDOT STANDARD DETAIL 10.3.0 AND SECTION 808 OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
 - CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI WITH A MAXIMUM AGGREGATE SIZE OF 3/4-INCH AND AIR ENTRAINMENT BETWEEN 4 AND 6 PERCENT. THE SLUMP OF THE CONCRETE SHALL BE 4 INCHES, PLUS OR MINUS ONE INCH.
 - PROVIDE 1/2-INCH PREFORMED JOINT FILLER BETWEEN THE EXISTING SPILLWAY AND THE NEW CONCRETE WINGWALL.
 - ALL REINFORCEMENT SHALL BE EPOXY COATED.
 - ALL EXPOSED EDGES SHALL HAVE A 3/4-INCH CHAMFER.
 - RIPRAP FOR THE SPILLWAY APRON SHALL MEET THE REQUIREMENTS OF RIDOT M.10.03.2 R5 RIPRAP, WITH 100 PERCENT PASSING 20 INCHES, 0-50 PERCENT PASSING 10 INCHES, AND 0-15 PERCENT PASSING 6 INCHES.
 - BEDDING FOR RIPRAP SHALL BE 1-1/2 INCH CRUSHED STONE.
 - GEOTEXTILE BELOW THE RIPRAP SHALL BE MIRAFI 700X OR APPROVED EQUAL.

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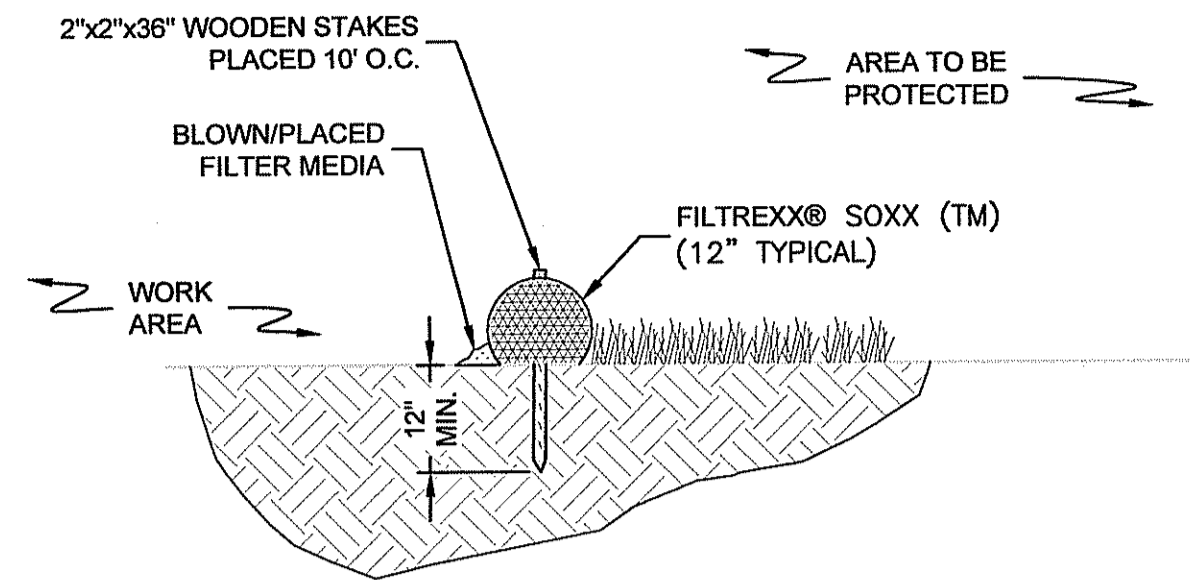
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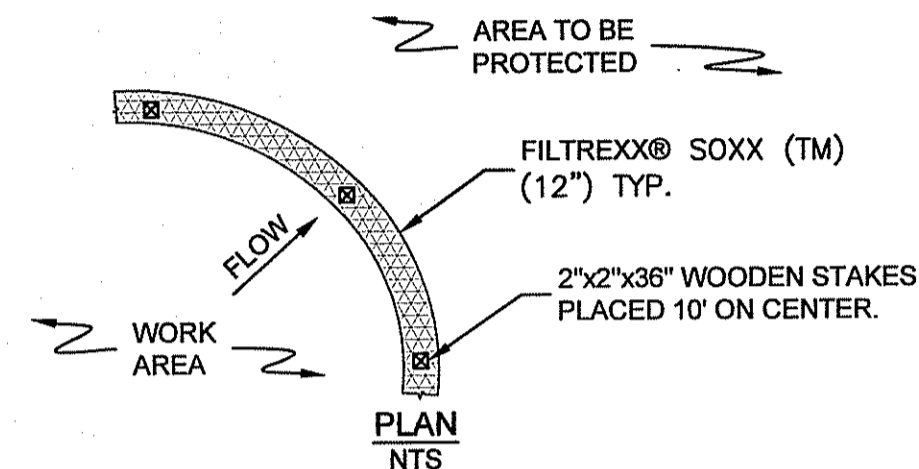
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JAMES POND DAM REPAIRS			
TEN ROD ROAD RICHMOND, RHODE ISLAND			
SPILLWAY REPAIRS			
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PROJ MGR:	WLL	REVIEWED BY:	ES
DESIGNED BY:	SRR	DRAWN BY:	CRD
DATE:	MAY, 2017	PROJECT NO.:	34113.03
		CHECKED BY:	MEA
		SCALE:	AS NOTED
		REVISION NO.:	
			SHEET C4 SHEET NO. C4 OF 6

WILLIAM L. LADD
No. [Signature]
GCEB
5/26/17
REGISTERED PROFESSIONAL ENGINEER
CIVIL

MAY 26 2017
GZA



SECTION
NTS



PLAN
NTS

SILT SOXX DETAIL
NOT TO SCALE

NOTES:

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL
2. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED.
5. SILT SOXX TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL SYSTEMS.
2. PRIOR TO ROUGH GRADING, TEMPORARY SILT SOXX SHALL BE PLACED AT THE LIMITS OF CONSTRUCTION.
3. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERIODICALLY MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, AND PROMPTLY FOLLOWING STORM EVENTS OR PERIODS OF RAINFALL.
4. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTALLATION GUIDELINES.
5. EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH THE RIDEM'S RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK (REVISED AUGUST 2014)

EROSION AND SOIL STABILIZATION PROGRAM:

1. TEMPORARY TREATMENTS FOR GRASS OR LANDSCAPING AREAS SHALL CONSIST OF A HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS FABRIC MATS.
2. ALL TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
3. NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH JUNE 1ST AND SEPTEMBER 1ST THROUGH OCTOBER 15TH.
4. TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS, TREE LIMBS, TRASH OR DEBRIS AND SHALL CONFORM WITH RIDOT STANDARD SPECIFICATIONS.
5. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS OF APPLICATION WITH APPROPRIATE INOCULUM FOR EACH VARIETY. LIME AND FERTILIZER SHALL BE APPLIED TO UPGRADE EXISTING CONDITIONS AS NECESSARY. THE SEED MIX FOR OPEN NATURAL AREAS SHALL CONSIST OF 70% CREEPING RED FESCUE, 5% ASTORIA BENTGRASS, 15% BIRDSFOOT TREEFOIL, 10% PERENNIAL RYEGRASS AND SHALL BE APPLIED AT A RATE OF 100 POUNDS PER ACRE. LAWN AREAS SHALL BE SEEDED IN ACCORDANCE WITH SPECIFICATIONS.
6. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR OF PLANTING.
7. ALL FILL SHALL BE CLEAN AND THOROUGHLY COMPACTED UPON PLACEMENT IN CONFORMANCE WITH RIDOT STANDARD SPECIFICATIONS.
8. DENUDED SLOPES SHALL NOT REMAIN EXPOSED FOR MORE THAN 15 DAYS. SLOPES NOT PROTECTED BY SEEDING PRIOR TO OCTOBER 15TH SHALL BE PROTECTED USING OTHER TEMPORARY MEANS SUCH AS HAY, STRAW, FIBER MULCH, OR PROTECTIVE MATS OR BURLAP OR FIBERGLASS NETTING AS DIRECTED BY THE ENGINEER. THESE TEMPORARILY STABILIZED SLOPES SHALL BE SEEDED UPON COMMENCEMENT OF THE NEXT FOLLOWING PLANTING SEASON.
9. HAY AND STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2000 POUNDS PER ACRE.

SEDIMENTATION CONTROL PROGRAM:

1. SILT SOXX ARE TO BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE MAINTAINED ON A REGULAR BASIS. IN ADDITION TO THE LINE OF SOXX AT THE LIMIT OF CONSTRUCTION, TEMPORARY BARRIERS SHALL BE CONSTRUCTED AT THE TOE OF ALL DISTURBED (CUT OR FILL) SLOPES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED.
2. CARE SHALL BE TAKEN NOT TO PLACE REMOVED SEDIMENTS WITHIN THE PATH OF THE EXISTING, NEWLY CREATED OR PROPOSED AREAS THAT ARE OR MAY BE SUBJECTED TO STORM WATER FLOW.
3. ALL DISTURBED AREAS THAT ARE SUBJECT TO EROSION, EITHER NEWLY FILLED OR EXCAVATED, OR TEMPORARY STOCKPILE AREAS ARE TO BE PROTECTED. ACCEPTABLE METHODS OF PROTECTION ARE SEEDING WITH FIBER MULCH PROTECTION.
4. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE FLOW DURING STORMS AND PERIODS OF RAINFALL.
5. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
6. ADDITIONAL SEDIMENT CONTROL MEASURES SHALL BE PLACED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, LOCAL OR STATE ENVIRONMENTAL OFFICIAL.
7. IF TRACKING OF SOIL IS OBSERVED ON PAVEMENT, THE CONTRACTOR SHALL DEPLOY A MECHANICAL SWEEPER WITH A VACUUM COLLECTION TO REMOVE THE SOILS FROM ALL PAVED SURFACES.
8. SOILS SHALL BE MANUALLY REMOVED FROM CONSTRUCTION VEHICLE TIRES PRIOR TO LEAVING THE SITE.
9. ACCUMULATED SEDIMENTS SHALL BE SPREAD ONSITE IF A LOCATION APPROVED BY THE OWNER OR DISPOSED OFF SITE IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL GUIDELINES.
10. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE UP GRADIENT SIDE OF ALL SILT SOXXES WHEN THE SEDIMENT HEIGHT HAS REACHED 2/3 OF OVERALL HEIGHT OF THE SILT SOXX. ALTERNATIVELY, ADDITIONAL SILT SOXXS CAN BE INSTALLED/STACKED ON TOP OF EACH SECTION TO EXTEND THE SILT SOXX HEIGHT. REGARDLESS, SILT SOXXS SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES.

DUST MITIGATION:

1. SOIL STOCKPILES SHALL BE COVERED WITH 10 MIL POLYETHYLENE SHEETING OR A NON WOVEN GEOTEXTILE TO PREVENT DUST GENERATION. STOCK PILE COVER SYSTEMS SHALL BE ANCHORED FOR WIND PROTECTION.
2. IF DUST IS OBSERVED LEAVING THE CONSTRUCTION WORK LIMITS, THE CONTRACTOR WILL IMPLEMENT DUST MITIGATION CONSISTING OF A MINIMUM OF:
 - WETTING THE DUST SOURCE AREA
 - COVERING THE DUST SOURCE AREA WITH 10 MILL POLYETHYLENE SHEETING OR NONWOVEN GEOTEXTILE.

CONTROL OF WATER :

1. ALL WORK SHALL BE PERFORMED DURING THE LOW FLOW PERIOD FROM JULY 15 TO OCTOBER 31.
2. THE IMPOUNDMENT SHALL BE DRAWN DOWN A MAXIMUM OF 2 FEET TO ELEVATION 344.2 FEET FROM THE NORMAL POOL ELEVATION OF 346.2 FEET PRIOR TO PERFORMING THE WORK.
3. THE EXISTING LOW LEVEL OUTLET SHALL BE SEALED OFF, DEWATERED, AND SEDIMENTS REMOVED TO OPEN THE PASSAGE TO ALLOW THE FLOW OF WATER TO ACHIEVE THE DRAWDOWN. ALTERNATELY, 8-INCH DIAMETER SIPHON(S) MAY BE USED OVER THE EMBANKMENT.
4. ADDITIONAL SUPER SACK SAND BAG OR PORTA-DAM COFFERDAMS WILL BE REQUIRED AT THE LOW LEVEL OUTLET AND SPILLWAY TO COMPLETE THE WORK.
5. ALL DEWATERING OF EXCAVATIONS SHALL BE ROUTED THROUGH A SILT SACK GEOTEXTILE BAG TO REMOVE SEDIMENTS. THE SILT SACK SHALL BE LOCATED IN AN UPLAND AREA, WITH THE DISCHARGE ROUTED TO THE OUTLET STREAM IN A NON-EROSIVE MANNER.

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**JAMES POND DAM REPAIRS
TEN ROD ROAD
RICHMOND, RHODE ISLAND**

**JAMES POND DAM REPAIRS
DETAIL SHEET**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: JAMES POND REALTY COMPANY, LLC 90 ELM STREET PROVIDENCE, RHODE ISLAND
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