

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879
(401)783-3370

State of Rhode Island
Department of Environmental Management
Office of Technical and Customer Asst.
235 Promenade Street
Providence, RI 02908-5767
(401)222-6822

JOINT PUBLIC NOTICE

CRMC File No.: 2016-06-081
RIDEM Water Quality Certification Number: 16-116

Date: July 25, 2016

These offices have under consideration the application of:

Chevron Land and Development Company
Attn: Constance L. Hall
1600 Smith Street, Room 24070B
Houston, TX 77002-7363

for State of Rhode Island Assent (in accordance with the Coastal Resources Management Program), and State of Rhode Island Water Quality Certification (in accordance with Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the RIGL, as amended) to:

Conduct shoreline and intertidal site remediation activities to include: Water quality control, limited piling removal associated with the existing deteriorated pier, removal of the existing oil/water separator, removal of the existing shoreline riprap revetment, excavation and removal of petroleum impacted soil, placement of an environmental cap and cap armoring in the intertidal zone of the Providence River, replacement of the shoreline riprap revetment and installation of an "in-water habitat" feature (fill). The purpose of the project is to remediate the petroleum impacted shoreline area to accommodate future development. The project involves filling in CRMC designated Type 5 waters for purposes of site remediation. The Coastal Resources Management Council may determine that a Special Exception is required if the project is not deemed consistent with the Council's policies for Type 5 waters and other criteria contained in Section 300.10.D.3 of the RI Coastal Resources Management Program.

Project Location: Providence River Shoreline
Street & Number: 431 Veterans Memorial Parkway
City/Town: East Providence
Plat Number: 018 Lot Number: 02

Plans of the proposed work may be seen at the CRMC office in Wakefield.

RICRMC/RIDEM Joint Public Notice
CRMC File No.
July 22, 2016
Page Two

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter. You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

This also serves as notice that the Rhode Island Department of Environmental Management, Office of Water Resources, Water Quality Certification Program has under consideration and review the same proposed activity as described above for compliance with the State's Water Quality Regulations (AUTHORITY: in accordance with Clean Water Act, as amended (33 U.S.C. 1251 et.seq.; Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the Rhode Island General Laws of 1956, as amended).

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing and be received at this office on or before August 25, 2016.

It is expected that objectors will review the application and associates plans thoroughly. Comments that pertain to this Joint Notice must be submitted in writing and must be addressed to Rhode Island Coastal Resources Management Council and Rhode Island Department of Environmental Management at the above referenced addresses.

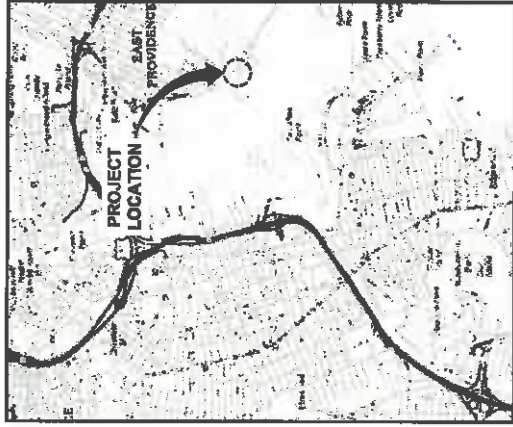
CONTRACT DRAWINGS

EAST PROVIDENCE WATERFRONT REMEDICATION

**FORMER GULF FUEL TERMINAL
(CHEVRON FACILITY #6517863)
431 VETERANS MEMORIAL PARKWAY
EAST PROVIDENCE, RHODE ISLAND**

**FOR PERMITTING ONLY -
NOT ISSUED FOR CONSTRUCTION**

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY



REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE, PROVIDENCE, RHODE ISLAND, 2012

LOCATION MAP
0 100 200
FEET



ARCADIS U.S., INC.

INDEX TO DRAWINGS

- 1 GENERAL NOTES, ABBREVIATIONS AND LEGEND
- 2 EXISTING SITE PLAN
- 3 WORK AREA ISOLATION
- 4 EXCAVATION PLAN
- 5 SEDIMENT CAP PLAN
- 6 OIL/WATER SEPARATOR REMOVAL SECTION
- 7 CAP CROSS SECTIONS
- 8 EXCAVATION CROSS SECTIONS
- 9 DETAILS

GENERAL NOTES:

1. BASE HAS BEEN DERIVED FROM SURVEYING AND MAPPING PROVIDED BY DIPRETE ENGINEERING ASSOCIATES ON JUNE 15, 2010.
2. COORDINATES IN U.S. SURVEY FEET ARE IN THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. ELEVATIONS SHOWN ARE BASED UPON NAVD 83 DATUM. TO CONVERT TO MSL, ADD 0.52 FEET.

ANGLER DATUM
MHW = +22.59' MSLW = +22.37'
MHW = +23.34' MSLW = +23.12'
+0.22' NAVD 83 = 0.00'

TIDAL ELEVATIONS
AT STATION R454000
MHW = +22.59' MSLW = +22.37'
+0.22' NAVD 83 = 0.00'

4. SURVEYING CONTROL POINTS AND FEATURES AS SHOWN WERE USED TO OBTAIN THESE TIDAL ELEVATIONS AND ON AVAILABLE RECORD INFORMATION, AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
5. SURVEY CONTROLS WERE COMPILED FROM SURVEY PERFORMED BY ARCADIS IN FEBRUARY 2010.
6. COASTAL FEATURE LINE, IN GENERAL, FOLLOWS THE TOP OF RFP RAP.
7. APPROXIMATE AS-BUILT EXCAVATION LIMITS INDICATED FROM A DRAWING DATED "OVERALL RECORD PLAN, THE VILLAGE ON THE WATERFRONT", SHEET 2 OF 4, PREPARED BY DIPRETE ENGINEERING, DATED 9/27/2015 AT A SCALE OF 1" = 40'.

EXCAVATION NOTES:

1. THE LIMITS OF THE EXCAVATIONS SHOWN ARE PRELIMINARY.
2. REMOVAL DEPTHS ARE PRELIMINARY AND MAY BE ADJUSTED PENDING FURTHER ANALYSIS.
3. THE CONTRACTOR SHALL ESTABLISH SIDE SLOPES THAT PERMIT SAFE ACCESS TO THE EXCAVATION AND SHALL BE SHOWN ON THE EXCAVATION RECORD DRAWING. (VERTICAL VERTICALS) SHALLower SIDE SLOPES MAY BE REQUIRED BELOW THE GROUNDWATER TABLE.
4. DEBRIS ENCOUNTERED DURING EXCAVATION ACTIVITIES SHALL BE REMOVED AND DEPOSITED AT AN APPROVED DISPOSAL FACILITY.
5. EXCAVATION SHALL BE BACKFILLED WITH SAND BLENDED WITH UNDESIGNED OR WITH RP RAP.

FORMER OIL WATER SEPARATOR REMOVAL NOTES:

1. THE OIL WATER SEPARATOR SHALL BE REMOVED TO MATCH SURROUNDING GRADE.
2. SHEET PILE SHALL BE CUT APPROXIMATELY 1 FOOT BELOW EXISTING GRADE.
3. STONE FILL WITHIN THE OIL WATER SEPARATOR SHALL BE REMOVED TO MATCH THE SURROUNDING GRADE.

REACTIVE CAP NOTES:

1. THE REACTIVE CAP SHALL CONSIST OF ONE OR MULTIPLE LAYERS OF REACTIVE CORE MAT (RCM) CONTAINING ORGANOCALY, OVERLAIN BY ONE LAYER OF GEOTEXTILE BIO BARRIER (GBB), EXCEPT WHERE NOTED AS THE "NAVAY PIER REACTIVE CAP".
2. THE REACTIVE CAP SHALL BE LOCATED: SPREADING SHALL BE TOLERANT: A BEDDING LAYER CONSISTING OF 3 INCHES OF CLEAN SAND SHALL BE INSTALLED UNDER THE CAP SURFACE PRIOR TO INSTALLATION OF THE CAP. PRESENT WITHIN THE CAP FOOTPRINT.
3. PANELS OF RCM AND GBB SHALL BE INSTALLED WITH A MINIMUM 1 FOOT OVERLAP WITH ADJACENT PANELS.
4. RCM AND GBB SHALL BE ANCHORED WITH AN ANCHOR TRENCH. THE ANCHOR TRENCH SHALL BE INSTALLED 5 FT UPLAND OF THE COASTAL FEATURE.
5. RFP RAP SHALL BE PLACED OVER THE EXISTING RFP RAP FOOTPRINT EXCEPT WHERE NOTED.
6. RFP RAP SHALL BE 8 TO 12 INCHES OF ARMOR STONE SHALL BE PLACED OVER THE REACTIVE CAP.

WORK AREA ISOLATION NOTES:

1. A PERIMETER SHALL BE INSTALLED TO PROVIDE WORK AREA ISOLATION PRIOR TO EXCAVATION ACTIVITIES OR INSTALLATION OF THE REACTIVE CAP.
2. WORK AREA ISOLATION SHALL BE MAINTAINED THROUGHOUT THE WORK AREA. WATERBENT AND NUMBER, AS NECESSARY, TO BE INCLUSIVE OF THE WORK AREA.

ABBREVIATIONS:

SBW BOTTOM OF WALL
ELEV ELEVATION
MHW MEAN HIGHER HIGH WATER ELEVATION
MLLW MEAN LOW LOW WATER ELEVATION
NAD NORTH AMERICAN DATUM
NAD'83 NORTH AMERICAN VERTICAL DATUM
OBB ORPHOLIC BIO BARRIER
RFB REACTIVE CORE MAT
TOP OF WALL
TYP TYPICAL

LEGEND:

--- PROPERTY BOUNDARY
--- EDGE OF COASTAL FEATURE
--- MEAN HIGHER HIGH WATER ELEVATION
--- MEAN LOW LOW WATER ELEVATION
--- EXISTING INDEX CONTOUR
--- EXISTING INTERMEDIATE CONTOUR
--- WOOD RETAINING WALL
--- APPROXIMATE AS-BUILT EXCAVATION LIMITS
--- RFP RAP

ARCADIS |  U.S. INC.

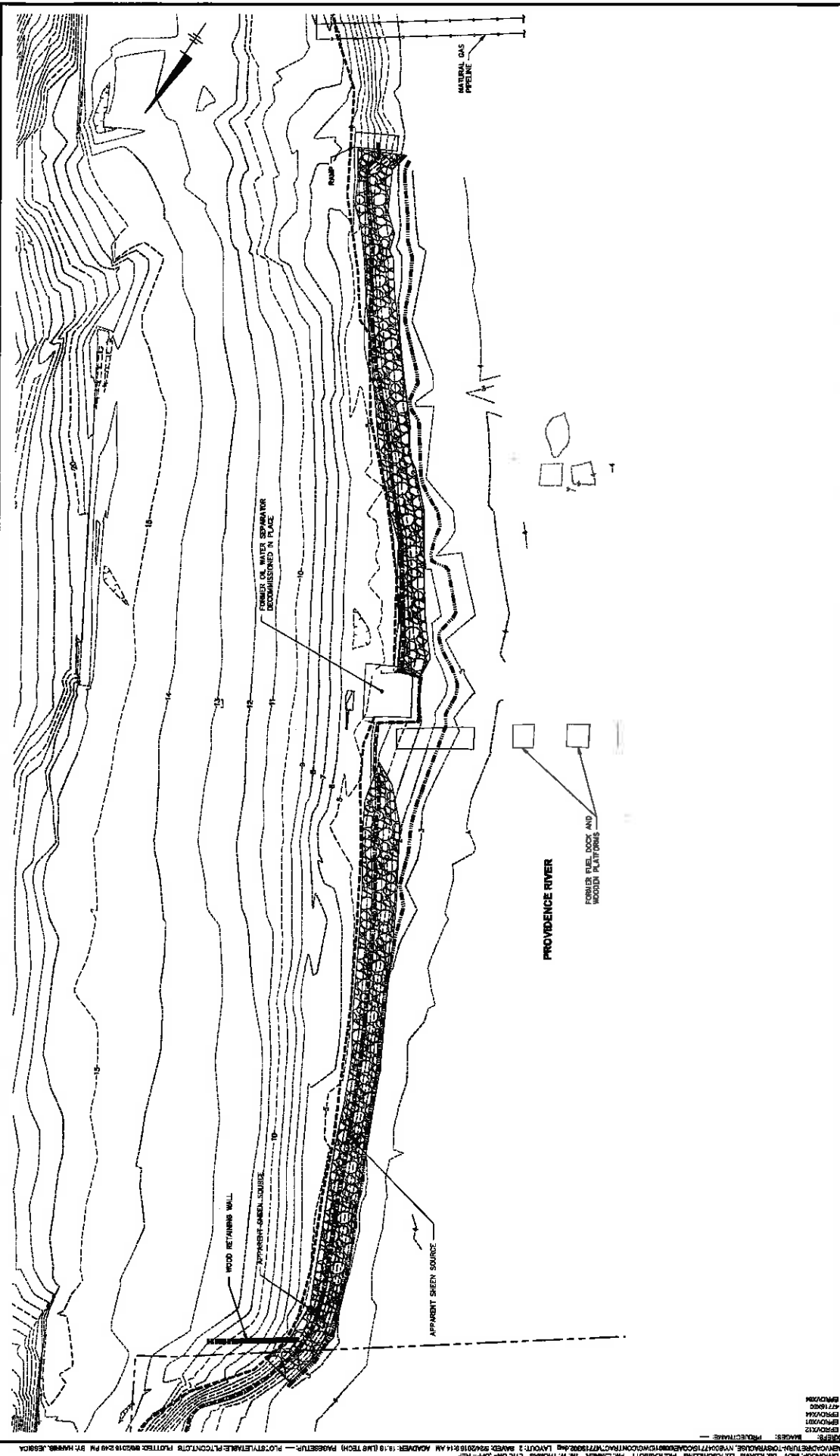
FOR PERMITTING ONLY - NOT ISSUED FOR CONSTRUCTION AND GENERAL NOTES, ABBREVIATIONS AND LEGEND

PROJECT: EAST PROVIDENCE WATERFRONT REGENERATION
DATE: JUNE 2018
DRAWN BY: JAMES P. GIBSON
CHECKED BY: JAMES P. GIBSON
SCALE: AS SHOWN

NO.	DATE	BY	DESCRIPTION
001	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
002	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
003	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
004	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
005	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
006	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
007	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
008	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
009	06/15/18	JPG	ISSUED FOR PERMITTING ONLY
010	06/15/18	JPG	ISSUED FOR PERMITTING ONLY

REVISIONS: NONE

PROJECT: EAST PROVIDENCE WATERFRONT REGENERATION
DATE: JUNE 2018
DRAWN BY: JAMES P. GIBSON
CHECKED BY: JAMES P. GIBSON
SCALE: AS SHOWN

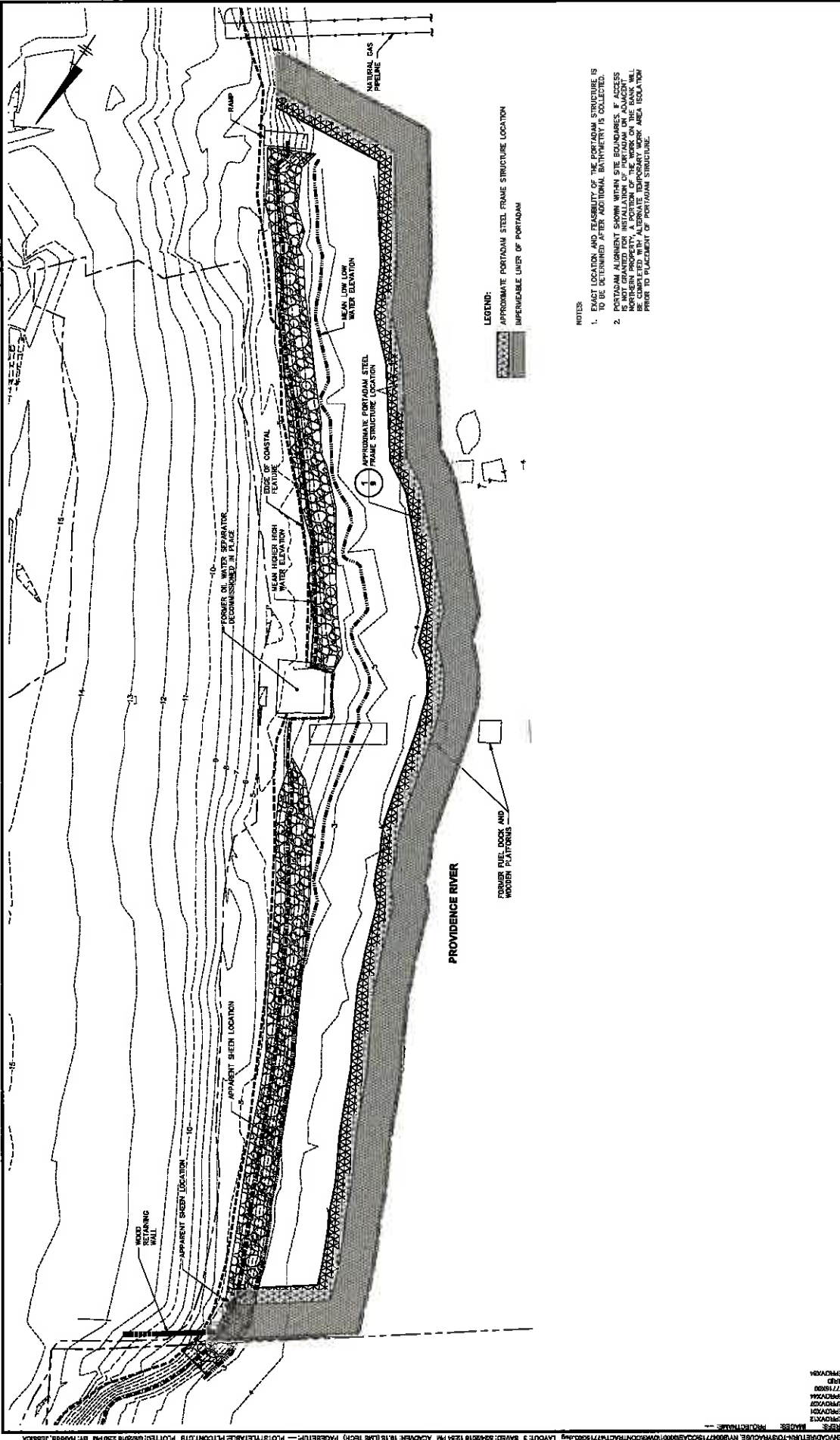




C:\PROJECTS\2024\PROVIDENCE\20240115\20240115_01.dwg (1:1) (L) (1/15/24) 1:15 PM 1/15/24
 PROJECT: PROVIDENCE
 SHEET: 2 OF 2
 DATE: 1/15/24
 DRAWN BY: J. L. BROWN
 CHECKED BY: J. L. BROWN
 APPROVED BY: J. L. BROWN

ARCADIS <small>Environmental & Infrastructure</small>	ARCADIS U.S., INC.	EXISTING SITE PLAN FOR PERMITTING ONLY - NOT ISSUED FOR CONSTRUCTION	2
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GEOTECHNICAL ENGINEERING CONSULTANTS, INC. (GEC) 1000 W. BROADWAY, SUITE 200, NEW YORK, NY 10013
 REBECCA LINDENBAUM, P.E. (NY License No. 0411851)

PROJECT NO.: 20240115	SHEET NO.: 2 OF 2	DATE: 1/15/24	DRAWN BY: J. L. BROWN
CHECKED BY: J. L. BROWN	APPROVED BY: J. L. BROWN	PROJECT NAME: PROVIDENCE	SHEET TITLE: EXISTING SITE PLAN



LEGEND:
 APPROXIMATE PORTADAM STEEL FRAME STRUCTURE LOCATION
 IMPERMEABLE USER OF PORTADAM

NOTES:
 1. EXACT LOCATION AND FEASIBILITY OF THE PORTADAM STRUCTURE IS TO BE DETERMINED AFTER ADDITIONAL BATHYMETRY IS COLLECTED.
 2. PORTADAM ALIGNMENT SHOWN WITHIN SITE BOUNDARIES. IF ACCESS IS NOT GRANTED FOR INSTALLATION OF PORTADAM OR ADJACENT AREAS, THE PORTADAM STRUCTURE WILL BE COMPLETED WITH ALTERNATE TEMPORARY WORK AREA ISOLATION PRIOR TO PLACEMENT OF PORTADAM STRUCTURE.

DRAWN BY: J. W. THOMAS (LVP-ON-CR) PLOT: 04/20/18 1:50 PM BY: HARRIS, JESSICA
 CHECKED BY: J. W. THOMAS (LVP-ON-CR) PLOT: 04/20/18 1:50 PM BY: HARRIS, JESSICA
 DATE: 04/20/18 1:50 PM
 PROJECT: PROVIDENCE RIVER WATER TREATMENT PLANT
 SHEET: 3 OF 3

3

ARCADIS U.S., INC.
 10000 W. CENTRAL BLVD.
 SUITE 200
 DENVER, CO 80202
 TEL: (303) 733-8800

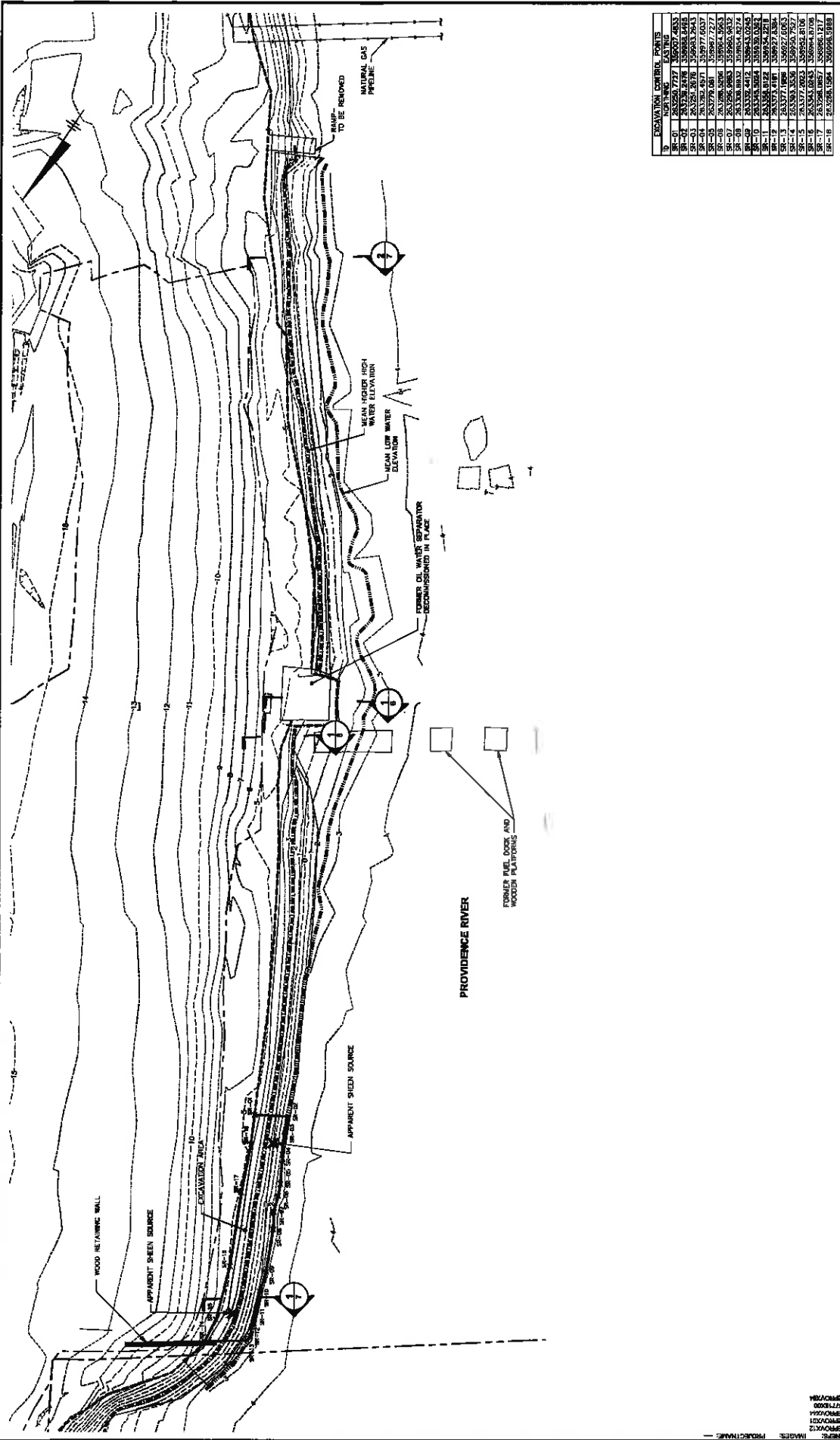
FOR PERMITTING ONLY-NOT ISSUED FOR CONSTRUCTION

WORK AREA ISOLATION

ARCADIS | ARCADIS U.S., INC.

REBECCA LINDEMAN
 Environmental Engineer/Architect
 Date: 04/11/2018
 Drawn By: MADOLLA, ERB
 Checked By: MADOLLA, ERB
 Project No: 1411111111
 Scale: 1/8"=1'-0"

DATE: 04/11/2018
 DRAWN BY: MADOLLA, ERB
 CHECKED BY: MADOLLA, ERB
 PROJECT NO: 1411111111
 SCALE: 1/8"=1'-0"



EXCAVATION POINT	ELEVATION
SR-01	263260.7772
SR-02	263259.8778
SR-03	263259.4442
SR-04	263258.4673
SR-05	2632779.081
SR-06	2632796.5068
SR-07	2632796.5068
SR-08	2632796.5068
SR-09	2632796.5068
SR-10	2632796.5068
SR-11	2632796.5068
SR-12	2632796.5068
SR-13	2632771.896
SR-14	263263.3528
SR-15	263263.3528
SR-16	263263.3528
SR-17	263263.3528
SR-18	263263.3528
SR-19	263263.3528
SR-20	263263.3528

PROJECT: PROVIDENCE RIVER, TERMINAL ENVIRONMENTAL FACILITY IMPROVEMENTS
 CLIENT: CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 PROJECT NO.: 1500946.0000
 ISSUE DATE: JUNE 2018

4

ARCADIS | Environmental & Infrastructure

ARCADIS U.S., INC.

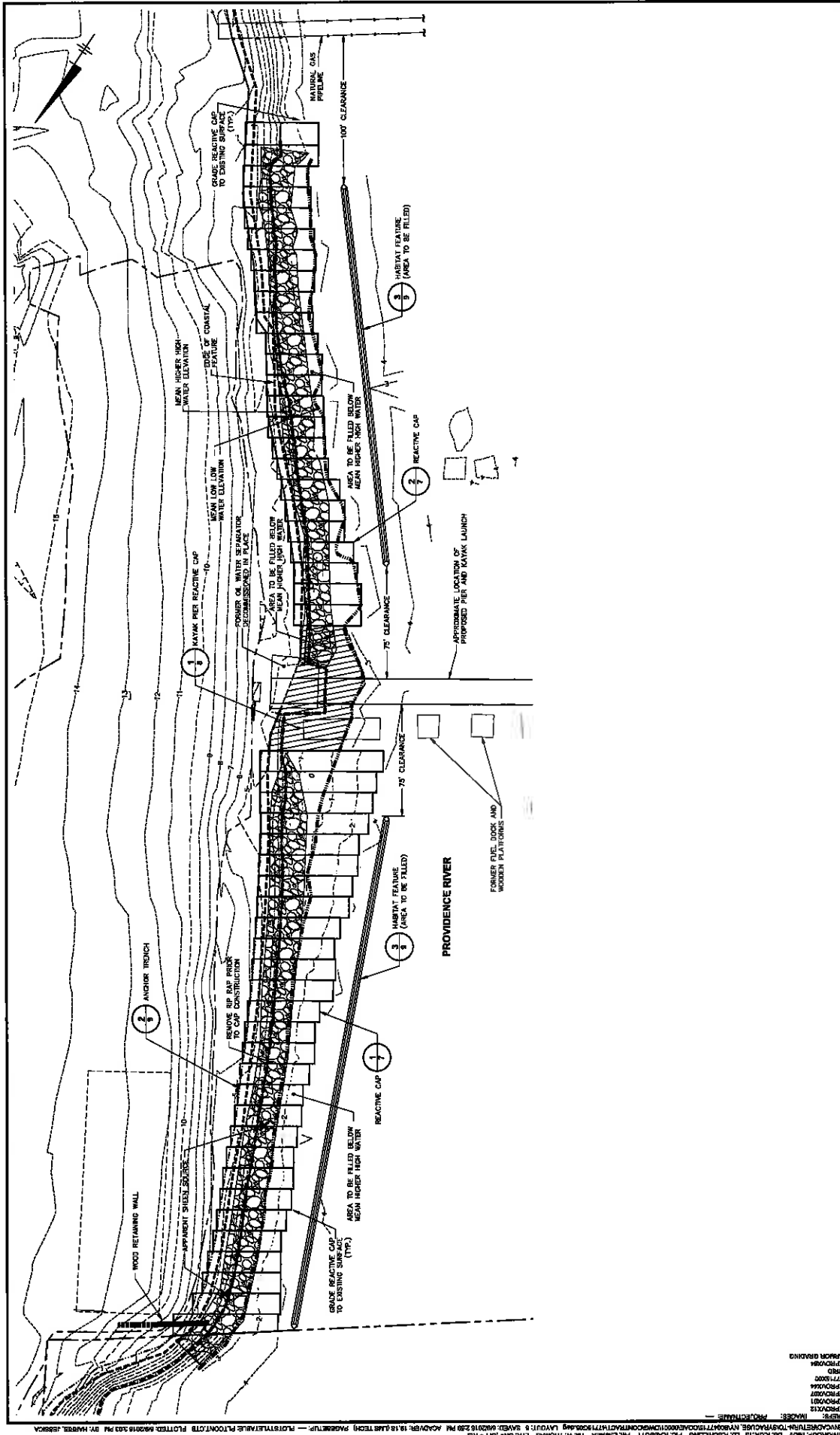
EXCAVATION PLAN

FOR PERMITTING ONLY - NOT ISSUED FOR CONSTRUCTION

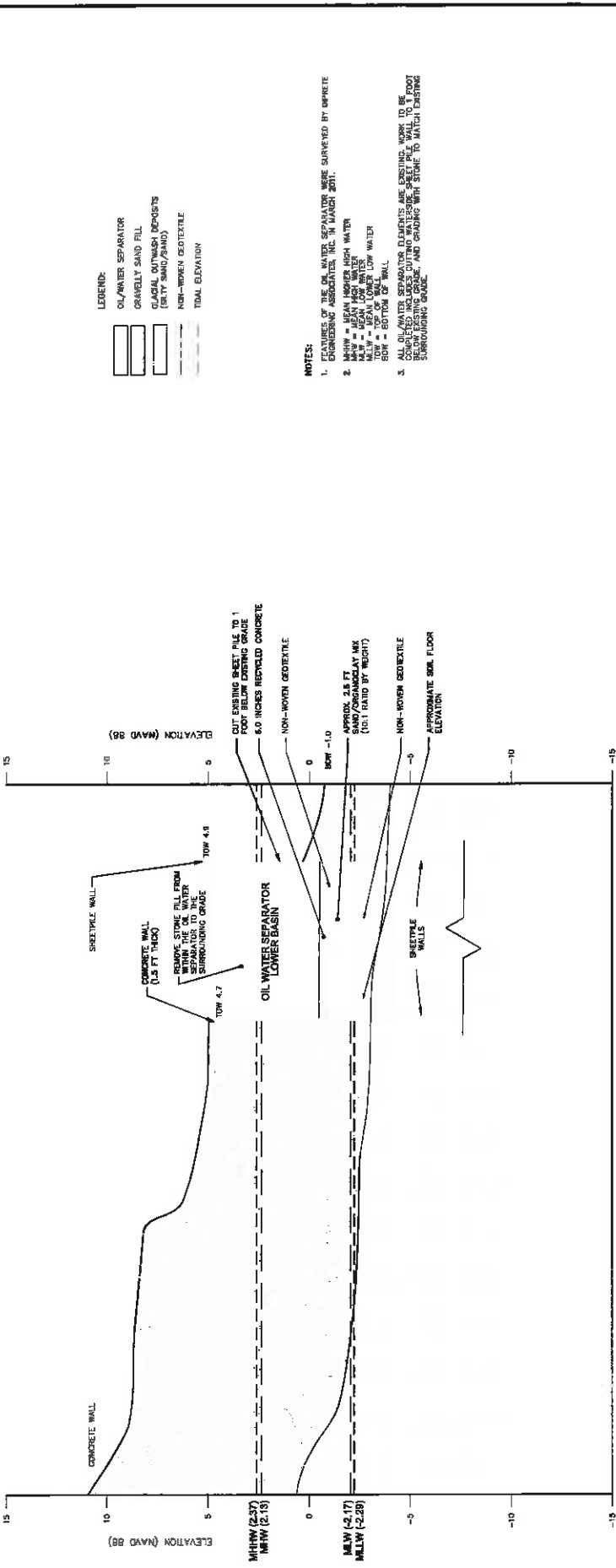
NO.	DATE	BY	CHKD BY	DESCRIPTION
1	06/11/18	REBECCA LINDSEMAN		ISSUED FOR PERMITTING

PROJECT MANAGER: REBECCA LINDSEMAN
 PROJECT ENGINEER: JAMES W. THOMAS
 PROJECT SURVEYOR: JAMES W. THOMAS
 PROJECT DRAFTER: JAMES W. THOMAS
 PROJECT CHECKER: JAMES W. THOMAS
 PROJECT APPROVER: JAMES W. THOMAS

CITY: PROVIDENCE, RI; DRAWING NO.: 1500946.0000; PROJECT NO.: 1500946.0000; PROJECT NAME: PROVIDENCE RIVER, TERMINAL ENVIRONMENTAL FACILITY IMPROVEMENTS; CLIENT: CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY; PROJECT NO.: 1500946.0000; ISSUE DATE: JUNE 2018; PROJECT MANAGER: REBECCA LINDSEMAN; PROJECT ENGINEER: JAMES W. THOMAS; PROJECT SURVEYOR: JAMES W. THOMAS; PROJECT DRAFTER: JAMES W. THOMAS; PROJECT CHECKER: JAMES W. THOMAS; PROJECT APPROVER: JAMES W. THOMAS



ARCADIS <small>ARCADIS U.S.A., INC.</small>		SEDIMENT CAP PLAN FOR PERMITTING ONLY - NOT ISSUED FOR CONSTRUCTION		5
CHESTER ENVIRONMENTAL MANAGEMENT COMPANY - FORMER FUEL TANK REMEDIATION, EAST PROVIDENCE WATERFRONT REMEDIATION				
PROJECT INFORMATION: PROJECT NO: 2007713.PWALL.DWG DATE: JUNE 2018 DRAWN BY: JACOB CHECKED BY: JACOB PROJECT MANAGER: JACOB		REVISIONS: NO. DATE REVISIONS BY 1 04/18/18 BY JACOB 2 06/18/18 BY JACOB 3 06/18/18 BY JACOB		
PROJECT LOCATION: PROJECT NO: 2007713.PWALL.DWG		APPROVED FOR CONSTRUCTION: NAME: REBECCA LINDEMAN TITLE: PROJECT MANAGER DATE: 06/18/18		



OIL WATER SEPARATOR SECTION

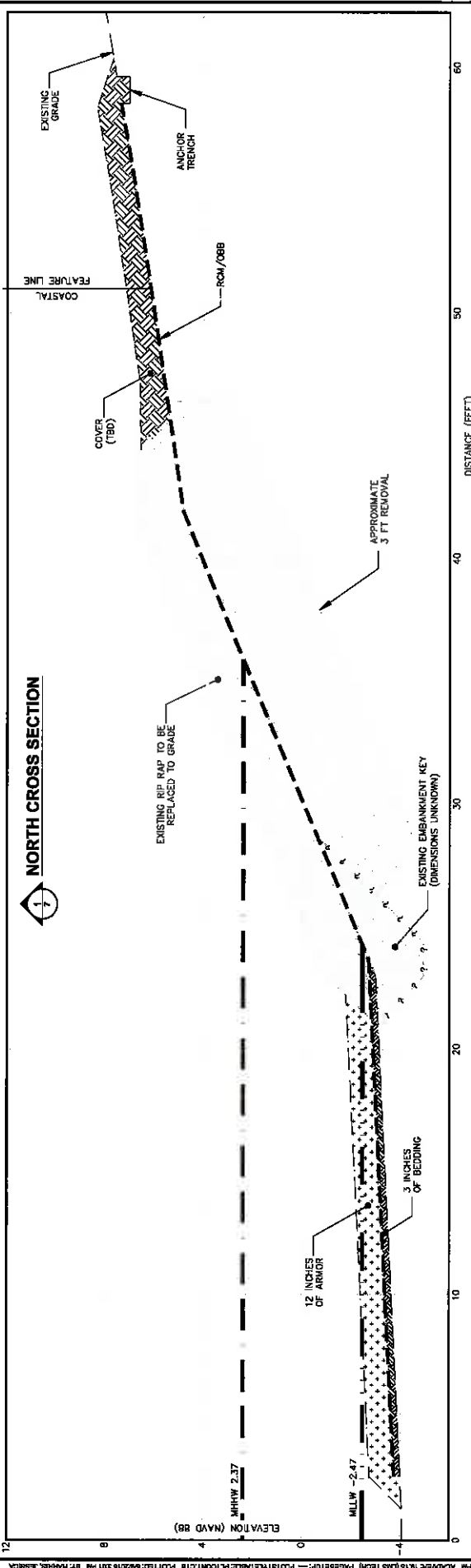
VERTICAL SCALE: 1"=10'
 HORIZONTAL SCALE: 1"=10'
 VERTICAL EXAGGERATION: 1X

- LEGEND:**
- [Symbol] OIL/WATER SEPARATOR
 - [Symbol] GRANULAR SAND FILL
 - [Symbol] GRAVEL OUTWASH DEPOSITS (SILT SAND/SAND)
 - [Symbol] NON-WOVEN GEOTEXTILE
 - [Symbol] TOTAL ELEVATION

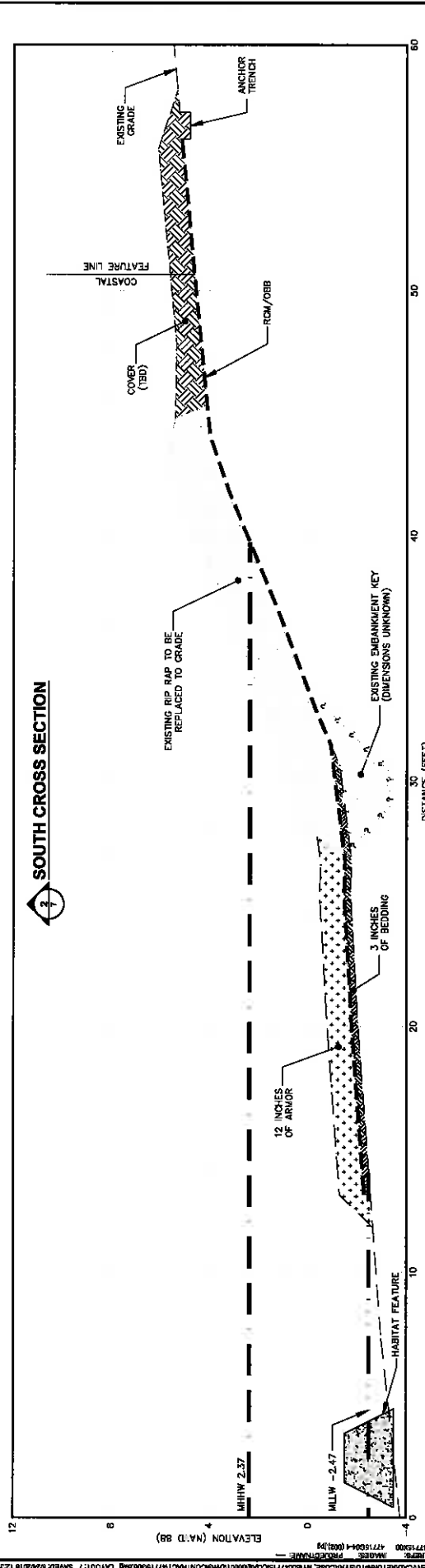
- NOTES:**
1. FEATURES OF THE OIL WATER SEPARATOR WERE SURVEYED BY OPRETE ENGINEERING ASSOCIATES, INC. IN MARCH 2011.
 2. MHHW = MEAN HIGHER HIGH WATER
 MHW = MEAN HIGH WATER
 MLLW = MEAN LOWER LOW WATER
 BOW = BOTTOM OF WALL
 3. ALL OIL/WATER SEPARATOR ELEMENTS ARE EXISTING WORK TO BE COMPLETED INCLUDING CUTTING WATERBURY SHEET PILE WALL TO 1 FOOT BELOW CRIBING GRADE, AND CRIBING WITH STONE TO MATCH EXISTING SURROUNDING GRADE.

<p>CANNON ENVIRONMENTAL MANAGEMENT COMPANY • POWER BUILT FOR THE WINDMILL REGENERATION FACILITY (601/800) EAST PROVIDENCE WATERFRONT REGENERATION FOR PERMITTING ONLY-NOT ISSUED FOR CONSTRUCTION OIL WATER SEPARATOR REMOVAL SECTION</p>		<p>PROJECT NO. 10 DATE: JUNE 2010 DRAWN BY: J. J. GARDNER CHECKED BY: J. J. GARDNER SCALE: AS SHOWN SHEET NO. 6</p>
<p>ARCADIS <small>Engineering & Construction</small> ARCADIS U.S., INC.</p>		<p>PROJECT NO. 10 DATE: JUNE 2010 DRAWN BY: J. J. GARDNER CHECKED BY: J. J. GARDNER SCALE: AS SHOWN SHEET NO. 6</p>
<p>PROFESSIONAL ENGINEER'S NAME: REBECCA LINDEMAN PROFESSIONAL REGISTERED IN: VT EXPIRES: 01/31/11 PROJECT NO.: 10 DATE: JUNE 2010 DRAWN BY: J. J. GARDNER CHECKED BY: J. J. GARDNER SCALE: AS SHOWN SHEET NO. 6</p>		<p>PROFESSIONAL ENGINEER'S NAME: REBECCA LINDEMAN PROFESSIONAL REGISTERED IN: VT EXPIRES: 01/31/11 PROJECT NO.: 10 DATE: JUNE 2010 DRAWN BY: J. J. GARDNER CHECKED BY: J. J. GARDNER SCALE: AS SHOWN SHEET NO. 6</p>
<p>SCALE(S) AS INDICATED</p> <p>DATE TO BE REVISIONS TO BE MADE BY: []</p> <p>REVISIONS TO BE MADE BY: []</p> <p>SCALE: []</p>		<p>PROFESSIONAL ENGINEER'S NAME: REBECCA LINDEMAN PROFESSIONAL REGISTERED IN: VT EXPIRES: 01/31/11 PROJECT NO.: 10 DATE: JUNE 2010 DRAWN BY: J. J. GARDNER CHECKED BY: J. J. GARDNER SCALE: AS SHOWN SHEET NO. 6</p>

NORTH CROSS SECTION



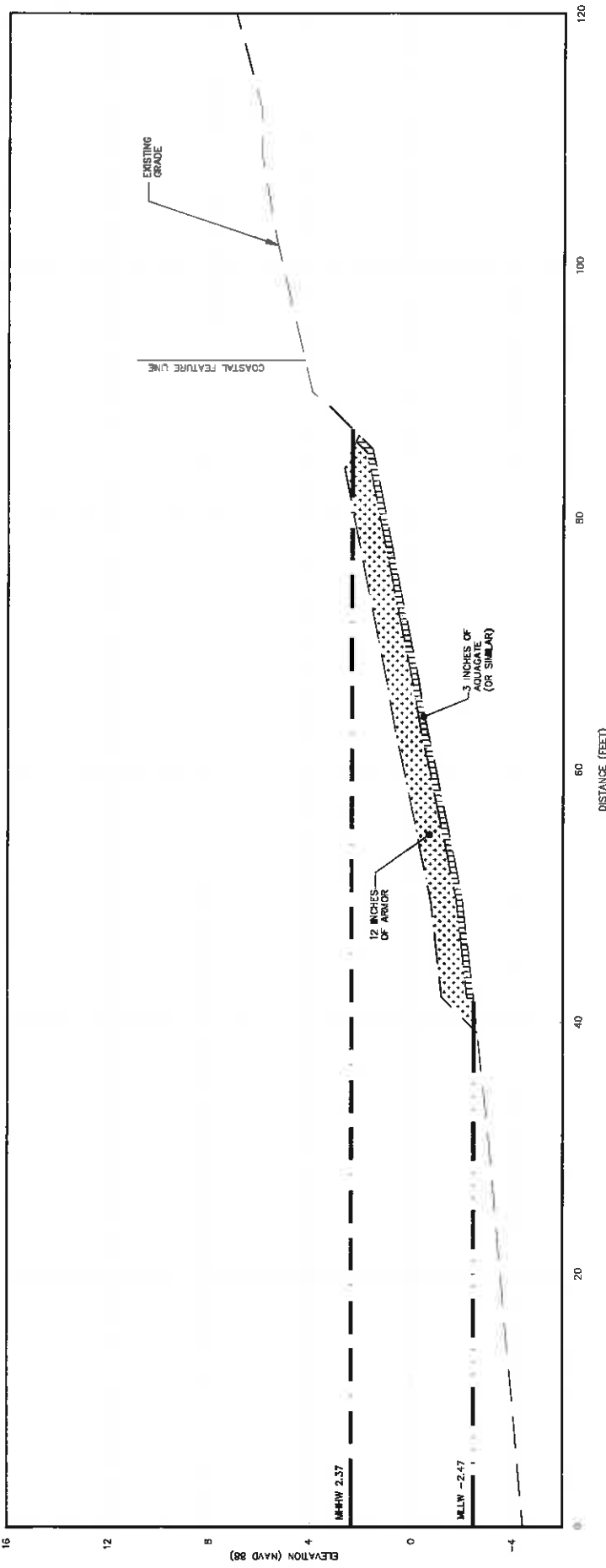
SOUTH CROSS SECTION



<p>CHENON ENVIRONMENTAL SERVICES, INC. PERMITTED UNDER FEDERAL PERMIT (CHENON FACILITY WASTES) FOR PERMITTING ONLY-NOT ISSUED FOR CONSTRUCTION</p>	
<p>ARCADIS ARCADIS U.S., INC.</p>	
<p>PROJECT NO: 1700000003 DATE: JUNE 2018 ADDRESS: 20 CENTER BLVD SUITE 200 NEW BRITAIN, CT 06051</p>	
<p>DESIGNER: REBECCA LINDEMAN PERMIT NUMBER: 0011961 DATE: 08/15/18 SCALE: 1" = 20'</p>	
<p>DRAWN BY: R. LINDEMAN CHECKED BY: J. H. [unclear] DATE: 08/15/18</p>	
<p>THIS DRAWING IS THE PROPERTY OF CHENON ENVIRONMENTAL SERVICES, INC. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CHENON ENVIRONMENTAL SERVICES, INC.</p>	

CAP CROSS SECTIONS

CITY OF BRIDGEPORT, CT: 06005-0000; COUNTY OF MIDDLEBURY, VT: 05750-0000; PROJECT: BRIDGEPORT, VT: 05750-0000; DRAWING: BRIDGEPORT, VT: 05750-0000; DATE: 06/2018; BY: J. H. [unclear]



KAYAK PIER CROSS SECTION

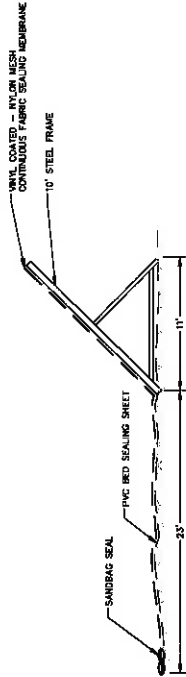
PROJECT LOCATION: REBECCA LIBRARIAN PROJECT NUMBER: 0011891		DATE: 06/21/2018	PROJECT: REBECCA LIBRARIAN
DRAWN BY: LS	CHECKED BY: LS	DESIGNED BY: LS	PROJECT: REBECCA LIBRARIAN
DATE: 06/21/2018	PROJECT: REBECCA LIBRARIAN	PROJECT: REBECCA LIBRARIAN	PROJECT: REBECCA LIBRARIAN

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 40'
 SHEET NUMBER: 8
 TOTAL SHEETS: 8

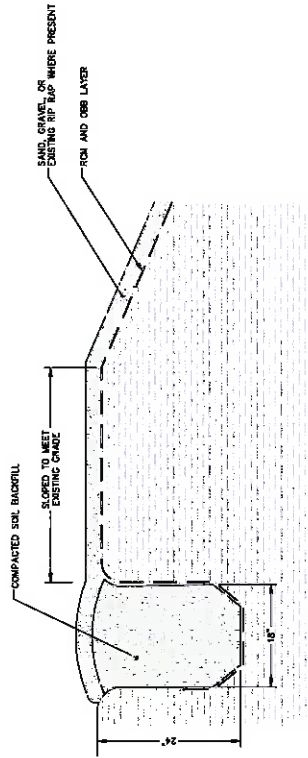
ARCADIS | **ARCADIS U.S., INC.**
 1000 WEST 10TH AVENUE, SUITE 200
 DENVER, CO 80202

DIVISION ENVIRONMENTAL MANAGEMENT COMPANY • PORTLAND PUBLIC TERMINAL CREATION FACILITY #81989
 FOR PERMITTING ONLY, NOT ISSUED FOR CONSTRUCTION
EXCAVATION CROSS SECTIONS

PROJECT NUMBER: 0011891	SHEET NUMBER: 8
DATE: JUNE 2018	PROJECT LOCATION: REBECCA LIBRARIAN
DRAWN BY: LS	CHECKED BY: LS



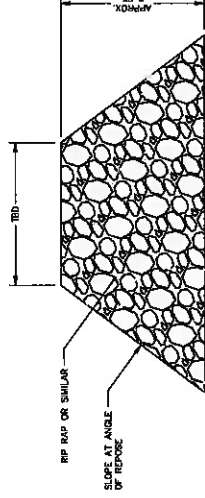
PORTADAM DETAIL 1
NOT TO SCALE



ANCHOR TRENCH DETAIL 2
NOT TO SCALE

NOTES:

1. BREAKWATER PLACEMENT HAS BEEN PROPOSED BETWEEN -3 AND -4 FEET NAVD83, AS SHOWN IN THE SEDIMENT CAP PLAN ON DRAWING 3.
2. PLACEMENT METHOD WILL BE DETERMINED DURING THE FINAL DESIGN BASED ON THE SELECTED CONSTRUCTION MATERIAL.
3. FINAL CONSTRUCTED DIMENSIONS WILL BE DETERMINED BASED ON THE SELECTED PLACEMENT METHOD AND MATERIALS.



HABITAT FEATURE DETAIL 3
NOT TO SCALE

ARCADIS US, INC. 11500 ROUTE 92, SUITE 200, WASHINGTON, MD 20781-4122 | TEL: 301.881.2723 | WWW.ARCADISUS.COM

ARCADIS | Arcadis US, Inc.

ARCADIS U.S., INC.

PROJECT NAME	PORTADAM
CLIENT	ARCADIS
DATE	JUNE 2018
PROJECT LOCATION	CENTURY CENTER PLAZA
	STATE ST AND
	W. WASHINGTON BLVD
	WASHINGTON, D.C.
	20004

REVISIONS

NO.	DATE	DESCRIPTION
1	01/11/18	ISSUED FOR PERMITTING

DESIGNED BY: REBECCA LUNDEMAN
CHECKED BY: KIMBERLY J. BROWN

SCALE(S) AS INDICATED

DATE: 06/20/18

SCALE: 1"=10'-0"

FOR PERMITTING ONLY-NOT ISSUED FOR CONSTRUCTION

DETAILS

9