

Proactive by Design

GEOTECHNICAL ENVIRONMENTAL ECOLOGICAL WATER CONSTRUCTION MANAGEMENT

530 Broadway Providence, RI 02909 T: 401.421.4140 F: 401.751.8613 www.gza.com



April 4, 2017 File No. 03.0033554.60

Mr. Neal Personeus Office of Water Resources Rhode Island Department of Environmental Management 235 Promenade Street Providence, RI 02908

Re: Water Quality Certification and RIPDES Construction General Permit Application Liquefaction Plant Providence, Rhode Island

Dear Mr. Personeus:

On behalf of our Client, The Narragansett Electric Company, dba National Grid, this letter provides you with an update to an existing application that was submitted to you last year for a proposed liquefaction facility to be constructed on Allens Avenue, in Providence, Rhode Island.

Specifically, a Water Quality Certification application and RIPDES Construction General Permit application were submitted on 12 September 2016, pursuant to the *Water Quality Regulations* (amended December 2010), and the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program. Since that time, minor changes to the proposed project have been made. Specifically, the proposed material management area is no longer being considered and has been removed from the liquefaction facility project. The plan set that accompanied the 2016 submittal has been revised to reflect this modification and is attached for your review. We have also modified the Soil Erosion and Sediment Control Plan and the Stormwater Management Plan to reflect the elimination of the material management area, but have not included these with this letter – please advise if you would like copies for your files.

If you have any questions or require any additional information regarding this application, please contact Igor Runge at <u>igor.runge@gza.com</u> or (401) 427-2710.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Sara Haupt, EIT

Project Engineer

Margaret Kilpatrick, P.E. Associate Principal

Attachments:

Revised Plan Set

San Enge.

Igor Runge, Ph.D., P.H. Consultant/Reviewer

J:\ENV\33554.60.MSK\WORK\CRMC PERMITTING\STORMWATER\SWMP REV MARCH 2017\33554.60 WQC RIPDES CV MARCH 2017_MSK-IR.DOCX

NATIONAL GRID LIQUEFACTION PLANT 642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND OCTOBER 2016 REVISED MARCH 27, 2017

PREPARED FOR:

nationalgrid

PREPARED BY:



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

DESIGNED BY:

KIEWIT ENGINEERING AND DESIGN CO. 9401 RENNER BOULEVARD LENEXA, KANSAS 66219









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SHEET #	SHEET # SHEET TITLE					
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3	EXISTING IMPERVIOUS CONDITIONS PLAN					
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5	TEMPORARY SEDIMENTATION AND EROSION CONTROL DETAILS					
6	LIQUEFACTION WORK AREA - EROSION AND SEDIMENTATION CONTROLS					
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11	STORMWATER MANAGEMENT DETAILS CONCRETE FOREBAY					
12	PROPOSED MONITORING WELL RE-INSTALLATION PLAN					
13	PROPOSED FINAL CONDITIONS PLAN					
14	PROPOSED IMPERVIOUS CONDITIONS PLAN					

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SHEET 1 OF 1





LEGEND



REFERENCE NOTES:

- THIS MAP CONTAINS THE ESRI ARCGIS ONLINE BING MAPS AERIAL LAYER PACKAGE. IMAGE COURTESY OF USGS EARTHSTAR GEOGRAPHICS SIO © MICROSOFT CORPORATION 2015.
 PARCEL DATA PROVIDED BY THE CITY OF PROVIDENCE PLANNING AND DEVELOPMENT DEPARTMENT. PARCELS OF REAL ESTATE ASSESSED AS OF DECEMBER 31, 2012. GIS DATA ARE FOR PLANNING PURPOSES ONLY. THESE DATA DO NOT REPRESENT A LEGALLY RECORDED PLAN, DEED, SURVEY OR ENGINEERING SCHEMATIC AND ARE NOT INTENDED TO BE USED AS SUCH SCHEMATIC AND ARE NOT INTENDED TO BE USED AS SUCH. 3. SITE BOUNDARIES ARE APPROXIMATE.

	IMPERVIOUS AREAS						
PLAT	LOT	NO.	AREA (SQ. FT.)	SURFACE TYPE			
101	1	A1	8,037.44	ROOF			
101	1	A2	17,913.35	ASPHALT			
101	1	A3	90,158.79	ASPHALT			
101	1	A4	1,786.65	STRUCTURE			
101	1	A5	1,640.44	ROOF			
101	1	A6	1,445.11	STRUCTURE			
56	1	A7	156,852.04	CONTAINMENT DIKE			
101	1	A8	39,796.73	TANK FOUNDATION			
101	1	A9	79,909.64	COMPACTED GRAVEL			
101	1	A10	1,933.34	COMPACTED GRAVEL			
56	5	A11	21,898.19	COMPACTED GRAVEL			
56	5	A12	33,764.16	ASPHALT			
101	1	A13	8,857.25	COMPACTED GRAVEL			
101	1	A14	5,114.04	COMPACTED GRAVEL			
56	5	A15	2,860.86	COMPACTED GRAVEL			
56	5	A16	1,196.51	COMPACTED GRAVEL			
56	5	A17	23,127.00	TANK FOUNDATION			
56	5	A18	1,425.31	STRUCTURE			
56	5	A19	898.87	ROOF			
56	5	A20	4,099.05	ROOF			
56	5	A21	7,273.42	ROOF			
56	5	A22	16,442.64	COMPACTED GRAVEL			
56	5	A23	11,249.94	ASPHALT			
56	316	A24	93,429.89	ASPHALT			
56	316	A25	29,735.26	CONCRETE			
56	316	A26	40,494.92	COMPACTED GRAVEL			
56	316	A27	29,930.34	LNG TANK			
56	316	A28	6,084.97	STRUCTURE			
56	316	A29	1,686.87	ROOF			
56	316	A30	3,197.19	ROOF			
56	316	A31	164.24	ROOF			
56	316	A32	638.42	ROOF			
56	316	A33	1,346.21	ROOF			
56	316	A34	1,845.52	ROOF			
56	316	A35	712.24	ROOF			
56	316	A36	10,912.10	SUMP PIT			
56	316	A37	10,655.36	ASPHALT			
56	316	A38	2,392.36	STRUCTURE			
56	317	A39	18,586.35	ASPHALT			
56	273	A40	28,623.42	ASPHALT			
56	273	A41	3,112.29	STRUCTURE			
56	273	A42	1,576.65	ROOF			
56	273	A43	12,924.79	TANK			
56	273	A44	1,893.69	STRUCTURE			
56	316	A47	10,294.60	COMPACTED GRAVEL			
	. IMPER'	VIOUS	847,918.45				

847918.45 SQ. FT. IMPERVIOUS AREA 1807724.79 SQ. FT. TOTAL AREA = 2

46.91	1%	IMPERVIC	NUS

SCALE IN FEET 1" = 100' REMOVE SOIL STORAGE AREA GZA 3/27/17 ISSUE/DESCRIPTION BY DATE NO.ISSUE/DESCRIPTIONBYDATETHE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID
OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT
AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE
TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY
OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN
CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO
THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA
AND NATIONAL GRID, WILL BE AT THE USER'S SOLE
RISK AND WITHOUT ANY RISK
OR LIABILITY TO GZA AND NATIONAL GRID. NATIONAL GRID LIQUEFACTION PLANT 642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND EXISTING IMPERVIOUS CONDITIONS PLAN PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com PREPARED FOR: national**grid** PROJ MGR: MSK REVIEWED BY: SJH CHECKED BY: IR FIGURE DESIGNED BY: SJH DRAWN BY: LDT SCALE: AS NOTED 3 PROJECT NO. REVISION NO. DATE: OCTOBER, 2016 33554.60 0 SHEET NO. 3 OF 14

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SLOPE INSTALLATION DETAIL OF EROSION CONTROL BLANKET NOT TO SCALE

NOTES:

- 1. PRODUCT TO BE NORTH AMERICAN GREEN EROSION CONTROL BLANKET OR APPROVED EQUAL BY NATIONAL GRID.
- 2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

INSTALLATION NOTES:

- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
- 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm 12.5cm) OVERLAP DEPENDING ON RECP'S TYPE.
- 5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE RECP'S WIDTH.

1. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES,

4. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IS SUFFICIENT QUANTITY AND SIZE

2. THE WASHOUT WILL BE CONSTRUCTED WITH STRAW BALES ARRANGED AROUND THE PERIMETER AND LINED WITH TWO LAYERS OF 10 MIL POLYETHYLENE SHEETING. THE POLYETHYLENE SHEETING WILL WRAP OVER THE

3. THE WASHOUT SHALL BE SIZED TO ACCOMMODATE ALL OF THE WASHOUT WATER AND CONCRETE AND SHOULD

1. INSPECT AND VERIFY THAT THE CONCRETE WASHOUT HAS BEEN PROPERLY CONSTRUCTED PRIOR TO THE

5. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED ONCE THE WASHOUT IS

6. IF WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE MATERIAL IN AN APPROVED MANNER. 7. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND SURFACE. 8. COVER THE WASHOUT WITH A NON-WATER COLLECTING COVER PRIOR TO STORM EVENTS TO PREVENT

9. REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE WASHOUT TO FUNCTIONAL CONDITION.



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- 6) PARCEL DATA PROVIDED BY THE CITY OF PROVIDENCE PLANNING AND DEVELOPMENT DEPARTMENT. PARCELS OF REAL ESTATE ASSESSED AS OF DECEMBER 31, 2012. GIS DATA ARE FOR PLANNING PURPOSES ONLY. THESE DATA DO NOT REPRESENT A LEGALLY RECORDED PLAN, DEED, SURVEY OR

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KEY PLAN: SCALE: 1"=800'

LE	GE	N	D:
			_

	EXISTING BUILDING
	EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
11	EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
	CRMC 50-FOOT SETBACK
	EXISTING PAVEMENT
	EASEMENT AREA
0	UTILITY POLE
¢	LIGHT POLE
- D	HYDRANT
	PROPERTY LINES
	INTERIOR PROPERTY LINE
	LIQUEFACTION WORK AREA
	PROPOSED PERMANENT PAVEMENT
	PROPOSED CONTOUR (MAJOR 5 FOOT INTERVAL)
	PROPOSED CONTOUR (MINOR 1 FOOT INTERVAL)
	PROPOSED GRAVEL
	STAKED FILTREXX SOXX (SEE DETAIL ON SHEET 5)
LOW LOW LOW	
	LIMIT OF WORK
	LIMIT OF WORK PROPOSED CONCRETE
	LIMIT OF WORK PROPOSED CONCRETE PROPOSED SAND FILTER
	LIMIT OF WORK PROPOSED CONCRETE PROPOSED SAND FILTER CATCH BASIN FRAME AND GRATE
	LIMIT OF WORK PROPOSED CONCRETE PROPOSED SAND FILTER CATCH BASIN FRAME AND GRATE CATCH BASIN TO BE PROTECTED WITH SILT SACK DURING CONSTRUCTION (SEE DETAIL ON SHEET 5)
Ш. Ш. Ш. Ш. Ш. Ш. Ш. Ш. Ш. Ш.	LIMIT OF WORK PROPOSED CONCRETE PROPOSED SAND FILTER CATCH BASIN FRAME AND GRATE CATCH BASIN TO BE PROTECTED WITH SILT SACK DURING CONSTRUCTION (SEE DETAIL ON SHEET 5) MEAN HIGH WATER



• -	ASHLEY STUTZMAN	PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THE VERE PREPARED OR APPROV HAT I AM A DULY LICENSEL INGINEER_UNDER_THE LAWS	I: SE DOCUMENTS VED BY ME, AND O PROFESSIONAL OF THE STATE	NATI	ONAL GRID LNG LL	С	
grid	Tarter	rhode island. ;ense no. <u>11512</u> ;piration date <u>06/30/2019</u>		FIELDS POINT LIQUEFACTION PROJECT			
	No. 11512	ENG/DESIGN ORIG:	F. SMOCKS	LIQUEFACTIO	ON WORK AREA -	EROSION	
wit	REGISTERED	LEAD ENG:	A. STUTZMAN	AND SE	DIMENTATION CONT	ROLS	
_ .	PROFESSIONAL ENGINEER	ENG. MGR:	J. BOCKELMAN	DRAWING NO:	PROJECT NO:	SHT:	REV.
Design	CIVIL	PROJ. MGR:	T. PARRACK	FIGURE 6	33554.60	6 OF14	1
	7			8		9	



LEGEND: EXISTING BUILDING ----- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL) EXISTING CONTOUR (MINOR 1 FOOT INTERVAL) _ _ _ _ _ 11 _ _ _ EXISTING PAVEMENT UTILITY POLE LIGHT POLE HYDRANT PROPERTY LINES ----- INTERIOR PROPERTY LINE - MHW ---- - MEAN HIGH WATER MEAN LOW WATER — MLW — — — — _____ EASEMENT AREA ____



KEY PLAN: SCALE: 1"=800'

GENERAL NOTES:

- 1) BASE MAP DEVELOPED FROM THE FOLLOWING:
 - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG. PLANS PROVIDED BY NATIONAL GRID.
 - DESCRIPTIONS PROVIDED IN THE CITY OF PROVIDENCE DEED BOOK (BK) 470 PAGES 224 - 229, BK 561 PAGES 326 - 328, BK 1111 PAGES 752 -756 AND BK 5249 PAGES 219 - 322.
 - ELECTRONIC CAD FILE14-152_SU1_REV2.DWG, TITLED "TOPOGRAPHIC SURVEY PLAN, PORTION OF A.P. 56 LOT 5" DATED OCTOBER 27, 2014 AND PROVIDED BY NATIONAL GRID.
 - ELECTRONIC CAD FILE 5153_COO.DWG. TITLED "EXISTING CONDITIONS PLAN" PREPARED BY PROCESS PIPELINE SERVICES, DATED DECEMBER 18, 2014 AND PROVIDED BY NATIONAL GRID.
 - ELECTRONIC CAD FILES PROVIDED BY KIEWIT
 - 1. "ACAD-102761-CIV_SITE.DWG" 2. "2007EXP_102761-CIV_LAYDOWN.DWG"
 - 3. "102761_MEC_STR_BASE.DWG"
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 - 7. "ACAD-102761-PROP-CONT.DWG"
 - 8. "POST DEVELOPMENT DRAINAGE MAP.DWG
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 - 1. "CATCH BASINS AND SANITARY SEWER SYSTEM" PREPARED BY PROVIDENCE GAS COMPANY, DATED SEPTEMBER 25, 1981. 2. "PLAN SHOWING UNDERGROUND UTILITIES LNG FACILITY"
 - DATED 0CTOBER 6, 1983, "SUBSURFACE UTILITY ENGINEERING" PREPARED BY BAYSTATE SUBSURFACE INVESTIGATION, INC., DATED MAY 17, 2005.
- 2) HORIZONTAL DATUM IS BASED ON NAD 1983 FROM BASE MAPPING PROVIDED BY VHB.
- 3) VERTICAL DATUM IS BASED ON NAVD 1988 FROM BASE MAPPING PROVIDED BY VHB.
- 4) SELECT PRESENTED SITE UTILITIES WERE TAKEN FROM HISTORIC FIGURES PROVIDED BY NATIONAL GRID. ALL UTILITY LOCATIONS ARE APPROXIMATE AND HAVE BEEN ALIGNED AND ADJUSTED FOR THE "BEST FIT" AND THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. UTILITIES ARE SHOWN FOR REFERENCE ONLY. OTHER LOCATIONS MAY EXIST.
- 5) ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011 AND 2016.
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- 7) SITE BOUNDARIES ARE APPROXIMATE.

FOR PERMITTING

ONLY

0	5' 10'	20'	30' W		1			
	SC	ALE IN FEET		XX				
0 2	5' 50'	100'	150'	XX				
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1		REMOVE SOIL STORAGE	ARFA	GZA	3/27/17			
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LIQUEFACTION WORK AREA - EXISTING REVETMENT AND CROSS SECTIONS PREPARED BY: PREPARED FOR:								
GZ	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com							
PROJ MGR	: MSK	REVIEWED BY: SJH	CHECKED BY: IR	FIGL	JRE			
DESIGNED	BY: SJH	DRAWN BY: LDT	SCALE: AS NOT	ED	7			
OCTO	BER, 2016	33554.60		SHEET	∎ Γ NO. 7 OF 14			



RIP RAP GRADATION REQUIREMENTS								
PRIMARY A	RMOR LAYER	INTERMEDIATE LAYER						
RID	OT R-6	RIDOT R-2						
% LESS THAN	STONE SIZE (IN.)	% LESS THAN	STONE SIZE (IN.)					
0-15%	8	0-15%	1					
0-50%	13	0-50%	2					
100%	26	100%	4					

3/4" CRUSHED STONE GR	ADATION REQUIREMENTS
% LESS THAN	SIEVE SIZE
100	3/4 INCH
90-100	1/2 INCH
30-60	3/8 INCH
0-15	No. 4
0-5	No. 8

NAVD 88	MLW
+2.37' (MHHW) ——— +2.12' (MHW) ———	+4.66' (M +4.41' (M
0.0' (NAVD 88)	+2.29'
-2.29' (MLW) ———	0.0' (MLV

6" THICK BEDDING LAYER (3/4"

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KEY PLAN: SCALE: 1"=800'

GENERAL NOTES:

XZ

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- 7) SITE

OUNDA	RIES A	RE APPF	ROXIMATE.				
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DESIGNED BY: SJH DRAWN BY: LDT SCALE: AS NOTED

33554.60

ROJECT NO.

DATE

OCTOBER 2016

REVISION NO.

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SHEET NO. 8 OF 14



- 3) VERTICAL DATUM IS BASED ON NAVD 1988 FROM BASE MAPPING PROVIDED BY VHB.
- GRID. ALL UTILITY LOCATIONS ARE APPROXIMATE AND HAVE BEEN ALIGNED AND ADJUSTED FOR THE "BEST FIT" AND THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. UTILITIES ARE SHOWN FOR REFERENCE ONLY. OTHER LOCATIONS MAY EXIST.
- 5) ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN
- 6) PARCEL DATA PROVIDED BY THE CITY OF PROVIDENCE PLANNING AND DEVELOPMENT DEPARTMENT. PARCELS OF REAL ESTATE ASSESSED AS OF DECEMBER 31, 2012. GIS DATA ARE FOR PLANNING PURPOSES ONLY. THESE DATA DO NOT REPRESENT A LEGALLY RECORDED PLAN, DEED, SURVEY OR

			in the second						
			•	ASHLEY STUTZMAN	PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE	NAT	IONAL GRID LNG	3 LLC	
		na	ational grid	THE REAL PROPERTY OF	of rhode island. License no. <u>11512</u> expiration date <u>06/30/2019</u>	FIELDS POIN	NT LIQUEFACTION	N PROJECT	
				No. 11512	ENG/DESIGN ORIG: F. SMOCKS	STORMWATE	ER MANAGEMENT	Г PLAN	
			Kiewit	REGISTERED	LEAD ENG: <u>A. STUTZMA</u>	<u>u</u>			
			vit Engineering and Design	PROFESSIONAL ENGINEER	ENG. MGR: J. BOCKELN	AN DRAWING NO:	PROJECT NO:	SHT:	REV.
		9401 Lenex	a Renner Boulevard exa, Kansas 66219	CIVIL	PROJ. MGR: <u>T. PARRACK</u>	- FIGURE 9	33554.60	9 OF14	1
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KEY PLAN: SCALE: 1"=800'

	LEGEND:
	EXISTING BUILDING
	EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
11	EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
	CRMC 50-FOOT SETBACK
	EXISTING PAVEMENT
	EASEMENT AREA
\	UTILITY POLE
\$	LIGHT POLE
z D=	HYDRANT
	PROPERTY LINES
	INTERIOR PROPERTY LINE
	PROPOSED CONTOUR (MAJOR 5 FOOT INTERVAL)
	PROPOSED CONTOUR (MINOR 1 FOOT INTERVAL)
	PROPOSED PERMANENT PAVEMENT
	PROPOSED GRAVEL
· · · · · · · · · · · · · · · · · · ·	PROPOSED CONCRETE
	PROPOSED SAND FILTER
	LIQUEFACTION WORK AREA
	LIMIT OF WORK
	FLOW DIRECTION
— MHW —— – – —— – – ——	MEAN HIGH WATER
- MLW	MEAN LOW WATER
•	PROPOSED RECTANGULAR CATCH BASIN
•	PROPOSED ROUND CATCH BASIN

CONFIDENTIAL THESE DRAWINGS ARE CONFIDENTIAL IN NATURE. ANY MISUSE OR UNAUTHORIZED DISTRIBUTION OF THE DRAWINGS CONTAINED HEREIN WILL BE A VIOLATION OF THIS CONFIDENTIALITY REQUIREMENT AND SUBJECT THE VIOLATOR TO LIABILITY. REVIEW OF THESE MATERIALS BY RECIPIENT SHALL CONSTITUTE AN ACCEPTANCE OF THESE TERMS AND THE TERMS OF ANY UNDERLYING CONFIDENTIALITY AGREEMENT WE MAY HAVE EXECUTED IN OBTAINING THIS INFORMATION FROM A THIRD PARTY. IF THE RECIPIENT IS NOT IN AGREEMENT WITH THE OBLIGATION OF CONFIDENTIALITY THEN THE DRAWINGS SHALL BE RETURNED TO THE ORIGINATOR.

INVERT ELEVATIONS AT 6.5' SEE NOTE 3

24" DIAMETER OVERFLOW BYPASS

INVERT ELEVATION





NOTE:

OVERFLOW BYPASS PIPE DIAMETER TO BE SIZED FOR 100-YEAR PEAK FLOW RATE

1. PONDING ELEVATION TO BE SET AT INLET INVERT ELEVATION

2. OUTLET INVERT ELEVATION FOR 24" OVERFLOW BYPASS TO BE

3. SIZE WIDTH OF WEIR BASED ON WATER QUALITY PEAK FLOW

REMOVE SOIL STORAGE AREA

ISSUE/DESCRIPTION

THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRIE

GZA 3/27/17

ΒY

DATE

(CURRENTLY SET AT 9.35" BASED ON AUGUST 31, 2016 DRAINAGE

NOTES:

CALCULATIONS.

10'

RATE.

NO.

ONLY

2.75' BELOW PONDING ELEVATION.

SCALE IN FEET

2

- ALL UTILITY LOCATIONS ARE APPROXIMATE AND HAVE BEEN ALIGNED AND ADJUSTED FOR THE "BEST FIT" AND THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. UTILITIES ARE SHOWN FOR REFERENCE ONLY. OTHER LOCATIONS MAY EXIST.
- 5) ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011
- PARCELS OF REAL ESTATE ASSESSED AS OF DECEMBER 31, 2012. GIS DATA ARE FOR PLANNING PURPOSES ONLY. THESE DATA DO NOT REPRESENT A LEGALLY RECORDED PLAN, DEED, SURVEY OR ENGINEERING

SE/	AL AND STAMP: ASHLEY STUTZMAN ASHLEY STUTZMAN	NAT	IONAL GRID LNG L	LC	4
national grid	LICENSE NO. 11512 EXPIRATION DATE 06/30/2019	_ FIELDS POIN	IT LIQUEFACTION F	PROJECT	
	No. 11512 ENG/DESIGN ORIG: F. SMO	« PROPOSED	FINAL CONDITIONS	ŝ	
	REGISTERED LEAD ENG: A. STU	MAN_			
P	PROFESSIONAL ENGINEER ENG. MGR: J. BOCH	LMAN DRAWING NO:	PROJECT NO:	SHT:	REV.
New C Engineer Boulevard 9401 Kenner Boulevard Lenexa, Kansas 66219	CIVIL PROJ. MGR: T. PARF	∝ FIGURE 13	33554.60	130F14	1
4 5 6 .	7	8		9	

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KEY PLAN: SCALE: 1"=800'

	LEGEND:
	EXISTING STRUCTURE
	EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
	EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
	CRMC 50-FOOT SETBACK
	EXISTING PAVEMENT
	EASEMENT AREA
Ð	UTILITY POLE
¢	LIGHT POLE
7) -	HYDRANT
	PROPERTY LINES
	INTERIOR PROPERTY LINE
	PROPOSED CONTOUR (MAJOR 5 FOOT INTERVAL
	PROPOSED CONTOUR (MINOR 1 FOOT INTERVAL
	PROPOSED PERMANENT PAVEMENT
	PROPOSED GRAVEL
	PROPOSED CONCRETE
	PROPOSED SAND FILTER
	LIQUEFACTION WORK AREA
	LIMIT OF WORK
	LIMIT OF PROPOSED REVETMENT (UPPER SLOPE)
\bigcirc	PROPOSED ROUND CATCH BASIN
	PROPOSED SQUARE CATCH BASIN
- MHW	MEAN HIGH WATER
- MLW — — — — — — — — — — — — — — — — — — —	MEAN LOW WATER

CONFIDENTIAL THESE DRAWINGS ARE CONFIDENTIAL IN NATURE. ANY MISUSE OR UNAUTHORIZED DISTRIBUTION OF THE DRAWINGS CONTAINED HEREIN WILL BE A VIOLATION OF THIS CONFIDENTIALITY REQUIREMENT AND SUBJECT THE VIOLATOR TO LIABILITY. REVIEW OF THESE MATERIALS BY RECIPIENT SHALL CONSTITUTE AN ACCEPTANCE OF THESE TERMS AND THE TERMS OF ANY UNDERLYING CONFIDENTIALITY AGREEMENT WE MAY HAVE EXECUTED IN OBTAINING THIS INFORMATION FROM A THIRD PARTY. IF THE RECIPIENT IS NOT IN AGREEMENT WITH THE OBLIGATION OF CONFIDENTIALITY THEN THE DRAWINGS SHALL BE RETURNED TO THE ORIGINATOR.

LEGEND	
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PROPERTY LINES

PERVIOUS PROPOSED TO BE IMPERVIOUS

STRUCTURE

ASPHALT	
AOLITALI	

OTHER

REFERENCE NOTES:

- THIS MAP CONTAINS THE ESRI ARCGIS ONLINE BING MAPS AERIAL LAYER PACKAGE. IMAGE COURTESY OF USGS EARTHSTAR GEOGRAPHICS SIO © MICROSOFT CORPORATION 2015.
 PARCEL DATA PROVIDED BY THE CITY OF PROVIDENCE PLANNING AND DEVELOPMENT DEPARTMENT. PARCELS OF REAL ESTATE ASSESSED AS OF DECEMBER 31, 2012. GIS DATA ARE FOR PLANNING PURPOSES ONLY. THESE DATA DO NOT REPRESENT A LEGALLY RECORDED PLAN, DEED, SURVEY OR ENGINEERING SCHEMATIC AND ARE NOT INTENDED TO BE USED AS SUCH.
 SITE BOUNDARIES ARE APPROXIMATE.

PLAT LOT NO. AREA (SQ. FT.) SURFACE TYPE 101 1 A1 8,037,44 ROOF 101 1 A2 17,913,35 ASPHALT 101 1 A3 90,156,79 ASPHALT 101 1 A4 1,766,65 STRUCTURE 101 1 A6 1,445,11 STRUCTURE 56 316 A7 156,852,04 CONTAINMENT DIKE 101 1 A8 39,796,73 TANK FOUNDATION 101 1 A8 39,796,73 COMPACTED GRAVEL 56 5 A11 21,898,19 COMPACTED GRAVEL 56 5 A12 37,77,70 ASPHALT 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196,51 COMPACTED GRAVEL 56 5 A21 7,273,42 ROOF	IMPERVIOUS AREAS					
101 1 A1 8,037.44 ROOF 101 1 A2 17,913.35 ASPHALT 101 1 A3 90,158.79 ASPHALT 101 1 A4 1,766.65 STRUCTURE 101 1 A6 1,445.11 STRUCTURE 101 1 A8 9,796.73 TANK FOUNDATION 101 1 A8 9,796.73 COMPACTED GRAVEL 101 1 A10 1,933.34 COMPACTED GRAVEL 101 1 A13 8,857.25 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 105 5 A17 2,127.44 COMPACTED GRAVEL <	PLAT	LOT	NO.	AREA (SQ. FT.)	SURFACE TYPE	
101 1 A2 17,913.35 ASPHALT 101 1 A3 90,158.79 ASPHALT 101 1 A4 1,786.65 STRUCTURE 101 1 A6 1,445.11 STRUCTURE 56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A6 1,445.11 STRUCTURE 56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A10 1,933.34 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,77.70 ASPHALT 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A19 898.87 ROOF	101	1	A1	8,037.44	ROOF	
101 1 A3 90,158.79 ASPHALT 101 1 A4 1,786.65 STRUCTURE 101 1 A6 1,444.11 STRUCTURE 56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.0 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A20 4,099.06 ROOF 56 5 A21 7,273.42 ROOF	101	1	A2	17,913.35	ASPHALT	
101 1 A4 1,786.65 STRUCTURE 101 1 A5 1,640.44 ROOF 101 1 A6 1,445.11 STRUCTURE 56 316 A7 156.852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 56 5 A11 21.898.19 COMPACTED GRAVEL 56 5 A12 37,777.70 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 56 5 A15 2,800.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A18 1,923.75 STRUCTURE 56 5 A19 988.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL <t< td=""><td>101</td><td>1</td><td>A3</td><td>90,158.79</td><td>ASPHALT</td></t<>	101	1	A3	90,158.79	ASPHALT	
101 1 A5 1,640.44 ROOF 101 1 A6 1,445.11 STRUCTURE 56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,77.70 ASPHALT 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 </td <td>101</td> <td>1</td> <td>A4</td> <td>1,786.65</td> <td>STRUCTURE</td>	101	1	A4	1,786.65	STRUCTURE	
101 1 A6 1,445.11 STRUCTURE 56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.0 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT	101	1	A5	1,640.44	ROOF	
56 316 A7 156,852.04 CONTAINMENT DIKE 101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.0 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 5 A22 12,124.48 COMPACTED GRAVEL 56 316 A26 29,735.26 CONCRETE	101	1	A6	1,445.11	STRUCTURE	
101 1 A8 39,796.73 TANK FOUNDATION 101 1 A9 79,909.64 COMPACTED GRAVEL 101 1 A10 1,933.34 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.70 ASPHALT 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A18 1,923.75 STRUCTURE 56 5 A18 1,923.75 STRUCTURE 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT	56	316	A7	156,852.04	CONTAINMENT DIKE	
101 1 A9 79,909.64 COMPACTED GRAVEL 101 1 A10 1,933.34 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,77.70 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A18 1,923.75 STRUCTURE 56 5 A18 1,923.75 STRUCTURE 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A26 40,494.92 COMPACTED GRAVEL	101	1	A8	39,796.73	TANK FOUNDATION	
101 1 A10 1,933.34 COMPACTED GRAVEL 56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.70 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A22 0,735.26 COMPACTED GRAVEL <tr< td=""><td>101</td><td>1</td><td>A9</td><td>79,909.64</td><td>COMPACTED GRAVEL</td></tr<>	101	1	A9	79,909.64	COMPACTED GRAVEL	
56 5 A11 21,898.19 COMPACTED GRAVEL 56 5 A12 37,777.70 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 COMPACTED GRAVEL <td< td=""><td>101</td><td>1</td><td>A10</td><td>1,933.34</td><td>COMPACTED GRAVEL</td></td<>	101	1	A10	1,933.34	COMPACTED GRAVEL	
56 5 A12 37,777.70 ASPHALT 101 1 A13 8,857.25 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 5 A23 11,249.94 ASPHALT 56 316 A26 40,494.92 COMCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 <td>56</td> <td>5</td> <td>A11</td> <td>21,898.19</td> <td>COMPACTED GRAVEL</td>	56	5	A11	21,898.19	COMPACTED GRAVEL	
101 1 A13 8,857.25 COMPACTED GRAVEL 101 1 A14 5,114.04 COMPACTED GRAVEL 56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A18 1,923.75 STRUCTURE 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 316 A24 92,586.35 ASPHALT 56 316 A26 40,494.92 COMPACTED GRAVEL	56	5	A12	37,777.70	ASPHALT	
101 1 A14 5.114.04 COMPACTED GRAVEL 56 5 A15 2.860.86 COMPACTED GRAVEL 56 5 A16 1.196.51 COMPACTED GRAVEL 56 5 A17 23.127.00 TANK FOUNDATION 56 5 A19 898.87 ROOF 56 5 A20 4.099.05 ROOF 56 5 A21 7.273.42 ROOF 56 5 A22 12.124.48 COMPACTED GRAVEL 56 5 A22 12.124.48 COMPACTED GRAVEL 56 5 A23 11.249.94 ASPHALT 56 316 A24 92.586.35 ASPHALT 56 316 A26 29.735.26 CONCRETE 56 316 A27 29.30.34 LNG TANK 56 316 A28 6.084.97 STRUCTURE 56 316 A32 G38.42 ROOF 56	101	1	A13	8,857.25	COMPACTED GRAVEL	
56 5 A15 2,860.86 COMPACTED GRAVEL 56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A22 12,124.48 COMPACTED GRAVEL 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE <t< td=""><td>101</td><td>1</td><td>A14</td><td>5,114.04</td><td>COMPACTED GRAVEL</td></t<>	101	1	A14	5,114.04	COMPACTED GRAVEL	
56 5 A16 1,196.51 COMPACTED GRAVEL 56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 5 A23 11,249.94 ASPHALT 56 5 A23 11,249.94 ASPHALT 56 316 A26 29,735.26 CONCRETE 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A30 3,197.19 ROOF 56 316 A32 638.42 ROOF 56 316 A3	56	5	A15	2,860.86	COMPACTED GRAVEL	
56 5 A17 23,127.00 TANK FOUNDATION 56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LING TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A30 3,197.19 ROOF 56 316 A32 G38.42 ROOF 56 316	56	5	A16	1,196.51	COMPACTED GRAVEL	
56 5 A18 1,923.75 STRUCTURE 56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A32 G38.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A35	56	5	A17	23,127.00	TANK FOUNDATION	
56 5 A19 898.87 ROOF 56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34	56	5	A18	1,923.75	STRUCTURE	
56 5 A20 4,099.05 ROOF 56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A33 1,346.21 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37	56	5	A19	898.87	ROOF	
56 5 A21 7,273.42 ROOF 56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A36 10,912.10 SUMP PIT 56 316 <t< td=""><td>56</td><td>5</td><td>A20</td><td>4,099.05</td><td>ROOF</td></t<>	56	5	A20	4,099.05	ROOF	
56 5 A22 12,124.48 COMPACTED GRAVEL 56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316	56	5	A21	7,273.42	ROOF	
56 5 A23 11,249.94 ASPHALT 56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A38 2,392.36 STRUCTURE 56 317 A39	56	5	A22	12,124.48	COMPACTED GRAVEL	
56 316 A24 92,586.35 ASPHALT 56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 273 A40 <td>56</td> <td>5</td> <td>A23</td> <td>11,249.94</td> <td>ASPHALT</td>	56	5	A23	11,249.94	ASPHALT	
56 316 A25 29,735.26 CONCRETE 56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39	56	316	A24	92,586.35	ASPHALT	
56 316 A26 40,494.92 COMPACTED GRAVEL 56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 <td>56</td> <td>316</td> <td>A25</td> <td>29,735.26</td> <td>CONCRETE</td>	56	316	A25	29,735.26	CONCRETE	
56 316 A27 29,930.34 LNG TANK 56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 273 A40 28,623.42 ASPHALT 56 273 A41 <td< td=""><td>56</td><td>316</td><td>A26</td><td>40,494.92</td><td>COMPACTED GRAVEL</td></td<>	56	316	A26	40,494.92	COMPACTED GRAVEL	
56 316 A28 6,084.97 STRUCTURE 56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A44	56	316	A27	29,930.34	LNG TANK	
56 316 A29 1,686.87 ROOF 56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.	56	316	A28	6,084.97	STRUCTURE	
56 316 A30 3,197.19 ROOF 56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,89	56	316	A29	1,686.87	ROOF	
56 316 A31 164.24 ROOF 56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44	56	316	A30	3,197.19	ROOF	
56 316 A32 638.42 ROOF 56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,893.69 STRUCTURE 56 273 A46	56	316	A31	164.24	ROOF	
56 316 A33 1,346.21 ROOF 56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 10,294.60 COMPACTED GRAVEL 56 316 <t< td=""><td>56</td><td>316</td><td>A32</td><td>638.42</td><td>ROOF</td></t<>	56	316	A32	638.42	ROOF	
56 316 A34 1,845.52 ROOF 56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A33	1,346.21	ROOF	
56 316 A35 712.24 ROOF 56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,294.60 COMPACTED GRAVEL 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A34	1,845.52	ROOF	
56 316 A36 10,912.10 SUMP PIT 56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,294.79 TANK 56 273 A44 1,294.60 COMPACTED GRAVEL 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A35	712.24	ROOF	
56 316 A37 12,642.27 ASPHALT 56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A36	10,912.10	SUMP PIT	
56 316 A38 2,392.36 STRUCTURE 56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A37	12,642.27	ASPHALT	
56 317 A39 17,080.05 ASPHALT 56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,294.60 COMPACTED GRAVEL 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	316	A38	2,392.36	STRUCTURE	
56 273 A40 28,623.42 ASPHALT 56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	317	A39	17,080.05	ASPHALT	
56 273 A41 3,112.29 STRUCTURE 56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A44 1,294.60 COMPACTED GRAVEL 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	273	A40	28,623.42	ASPHALT	
56 273 A42 1,576.65 ROOF 56 273 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	273	A41	3,112.29	STRUCTURE	
56 2/3 A43 12,924.79 TANK 56 273 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	273	A42	1,576.65	ROOF	
56 2/3 A44 1,893.69 STRUCTURE 56 273 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	273	A43	12,924.79		
56 2/3 A46 10,294.60 COMPACTED GRAVEL 56 316 A47 54,454.00 NEW IMPERVIOUS AREAS TOTAL IMPERVIOUS 000,000,014 000,000,014 000,000,014	56	273	A44	1,893.69	STRUCTURE	
56 316 A47 54,454.00 NEW IMPERVIOUS AREAS	56	2/3	A46	10,294.60		
				54,454.00	NEW IMPERVIOUS AREAS	

894480.34 SQ. FT. IMPERVIOUS AREA 1807724.79 SQ. FT. TOTAL AREA = 49.48% IMPERVIOUS

		0	50' 100'	200' 3	00'	
SCALE IN FEET 1" = 100'						
1		R	EMOVE SOIL STORAGE	AREA	GZA	3/27/17
NO.			ISSUE/DESCRIPTION	١	BY	DATE
THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK						
NATIONAL GRID LIQUEFACTION PLANT 642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND						
PREPARED BY:				PREPARED FOR:		
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			national grid			
PROJ N	MGR:	MSK	REVIEWED BY: SJH	CHECKED BY: IR	FIGU	JRE
DESIG	NED BY:	SJH	DRAWN BY: LDT	SCALE: AS NOTED		1/
DATE: PROJECT NO.		REVISION NO.		14		
00	IOBER 2	2016	33554.60	0	SHEE	T NO. 14 OF 14

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