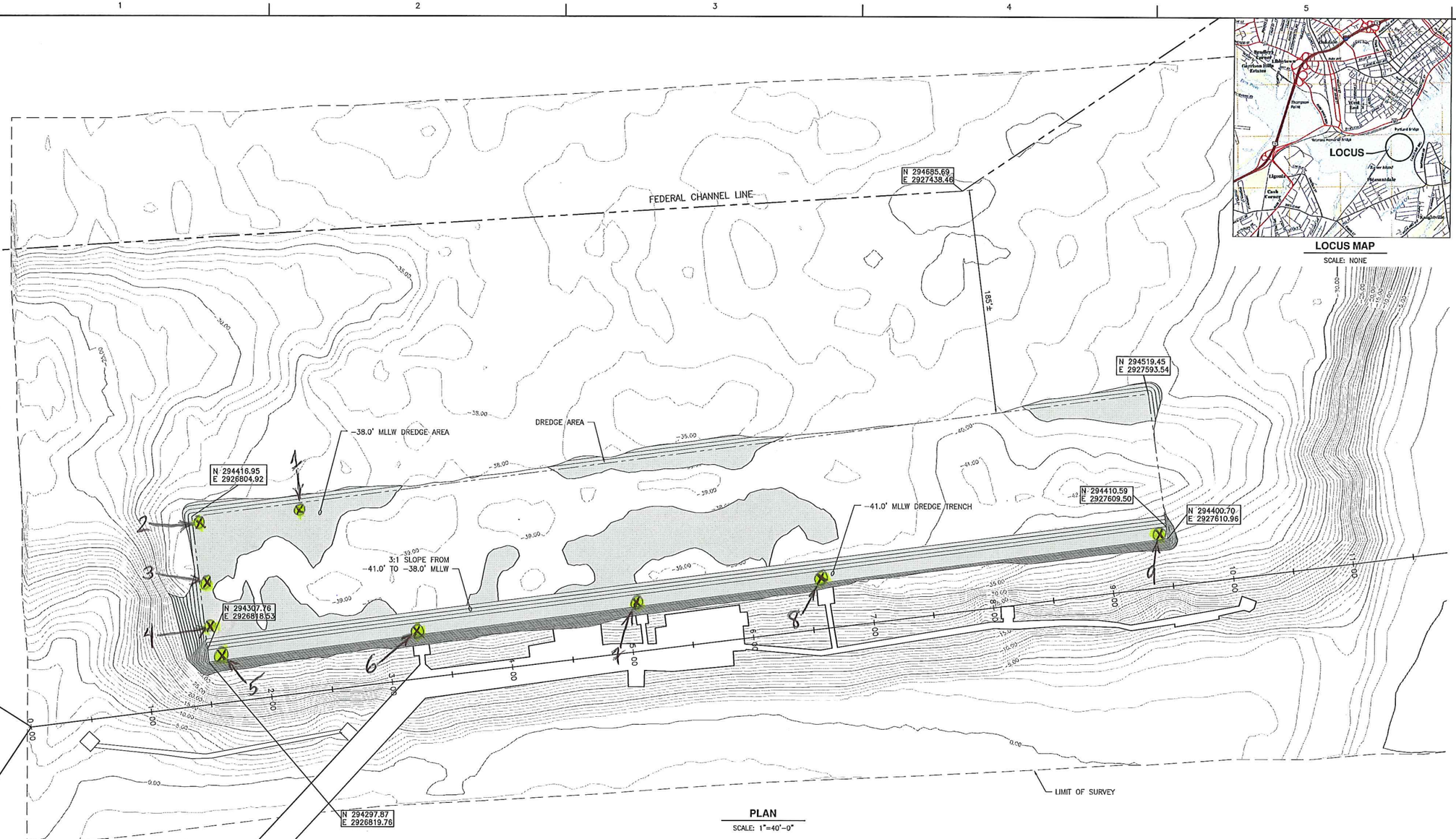

PLAN

SCALE: 1"=40'-0"

LOCUS MAP

SCALE: NONE

NOTES:

1. HYDROGRAPHIC DATA SHOWN WAS COLLECTED ON DECEMBER 8, 2015 BY CHILDS ENGINEERING CORPORATION AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED DURING THE TIME OF THE SURVEY.
2. COORDINATES ARE BASED ON THE MAINE WEST NAD 1983 STATE PLANE COORDINATE SYSTEM AND ARE EXPRESSED IN FEET.
3. ELEVATIONS ARE SHOWN IN FEET AND HUNDREDTHS AND ARE BASED ON THE MEAN LOWER LOW WATER (MLLW) DATUM. NEGATIVE VALUES REPRESENT AND ELEVATION BELOW THAT SAME PLANE.
4. WATERFRONT STRUCTURES AND CHANNEL MARKINGS ARE SHOWN FOR REFERENCE ONLY.
5. THE QUANTITY OF SOUNDINGS HAS BEEN REDUCED TO INCREASE VISIBILITY OF INDIVIDUAL ELEVATIONS.
6. DREDGE VOLUMES: THE DREDGE PRISM SHALL BE TO -38 MLLW WITH A 1 FOOT OVERDREDGE PRISM. THE SIDE SLOPES ARE CALCULATED TO A 3:1 SLOPE AND THERE SHALL BE A 10 FOOT WIDE TRENCH DUG AT THE PIER SIDE OF THE BERTH TO A DEPTH OF -41 MLLW OVERDREDGE TO -42 MLLW THE SLOPES FOR THE TRENCH SHALL BE AT 3:1 WITH THE EXCEPTION OF THE PIER SIDE SLOPE WHICH IS CALCULATED AT 1:1 SLOPE. IT IS EXPECTED THAT THE PIER SIDE SLOPE MAY FAIL AT SOME TIME AFTER THE DREDGE OPERATIONS HAVE BEEN COMPLETED THE TRENCH HAS BEEN DESIGNED TO CONTAIN THIS INITIAL FAILURE. (SEE DREDGE SECTIONS SHEET X-104)

-38 MLLW = 2945 CY
-39 MLLW = 5450 CY

DATUM

MHHW	9.89'
MHW	9.46'
NAVD88	5.24'
MLW	0.33'
MLLW	0.00'

LEGEND

AREA TO BE DREDGED

= sediment sample loc.

Citgo Oil Terminal
Fore River
S. Portland, ME

1"=40'-0"

SCALE IN FEET

CHILDS ENGINEERING CORPORATION
34 WILLIAM WAY, BELLINGHAM, MA 02019 U.S.A.
Phone: (508) 966-0092 Fax: (508) 966-6936
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Mark	Description	Date	Appr.

Designed by: ARN	Date: 01/06/16		
Dwn by: TEQ	Chk by: ARN	Design file no. 263215 X-103	
Reviewed by: DLP		Scale: 1"=40'-0"	

MOTIVA TERMINAL
CITGO / IRVING OIL
SOUTH PORTLAND, ME

HYDROGRAPHIC SURVEY
CONTOUR PLAN
WITH DREDGING AREA

Sheet reference number:
X-103
Sheet 1 of 2

TOM QUINN K:\2632-15.00 DREDGING SO. PORTLAND - CITGO\CADD\CURRENT WORKING DWGS\263215 X-103 DREDGING PLAN.DWG May 10, 2016 - 10:18am

PLAN

SCALE: 1"=40'-0"

Bathymetric contours

Citgo Terminal
Fore River,
S. Portland, ME

NOTES:

1. HYDROGRAPHIC DATA SHOWN WAS COLLECTED ON DECEMBER 8, 2015 BY CHILDS ENGINEERING CORPORATION AND CAN ONLY REFLECT CONDITIONS AS THEY EXISTED DURING THE TIME OF THE SURVEY.
2. COORDINATES ARE BASED ON THE MAINE WEST NAD 1983 STATE PLANE COORDINATE SYSTEM AND ARE EXPRESSED IN FEET.
3. ELEVATIONS ARE SHOWN IN FEET AND HUNDREDTHS AND ARE BASED ON THE MEAN LOWER LOW WATER (MLLW) DATUM. NEGATIVE VALUES REPRESENT AND ELEVATION BELOW THAT SAME PLANE.
4. WATERFRONT STRUCTURES AND CHANNEL MARKINGS ARE SHOWN FOR REFERENCE ONLY.
5. THE QUANTITY OF SOUNDINGS HAS BEEN REDUCED TO INCREASE VISIBILITY OF INDIVIDUAL ELEVATIONS.
6. THE 2009 DREDGE PRISM IS SHOWN WITHOUT SLOPED EDGES. DREDGING TO A DEPTH OF -38' MLLW WILL INCLUDE A VOLUME OF 2950 CY. INCLUDING A 1 FOOT OVERDREDGE WILL INCREASE THE VOLUME TO 5450 CY. THESE ESTIMATES INCLUDE A 10 FOOT WIDE TRENCH OF DREDGE DEPTH -41' MLLW AND 3:1 SLOPING ON ALL SIDES EXCLUDING THE PIER SIDE WHICH WILL RECEIVE 1:1 SLOPING.

DATUM

MHHW	9.89'
MHW	9.46'
NAVD88	5.24'
MLW	0.33'
MLLW	0.00'

N

1"=40'-0" 40 0 40 80 SCALE IN FEET

CHILDS ENGINEERING CORPORATION
34 WILLIAM WAY, BELLINGHAM, MA 02019 U.S.A.
Phone: (508) 966-5022 Fax: (508) 966-5096
E-mail: mail@childseng.com

Mark	Description	Date	Appr.

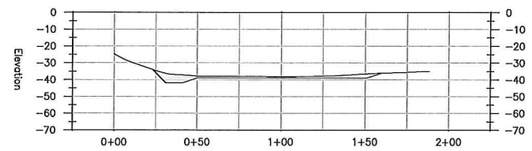
Designed by: ARN		Date: 04/05/16	
Dwn by: TEQ	Chkd by: ARN	Design file no. 263215 X-101	
Reviewed by: DLP		Scale: 1"=40'-0"	

MOTIVA TERMINAL
CITGO / IRVING OIL
SOUTH PORTLAND, ME

HYDROGRAPHIC SURVEY
CONTOUR PLAN

Sheet reference number:
X-101
Sheet 1 of 2

TOM QUINN K:\2632-15.00 DREDGING SO. PORTLAND - CITGO\CADD\CURRENT WORKING DWGS\263215 X-101 HYDROGRAPHIC SURVEY.DWG Apr 05, 2016 - 8:07am



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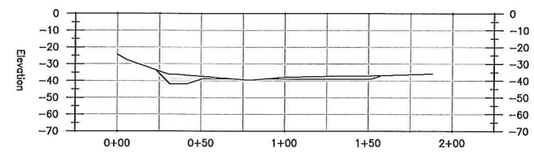

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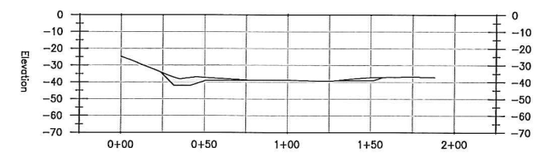

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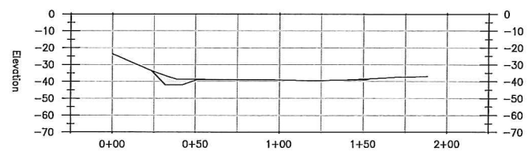

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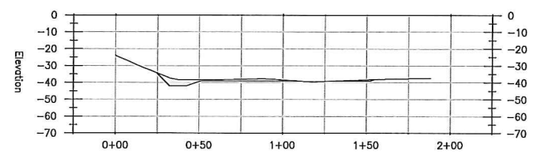

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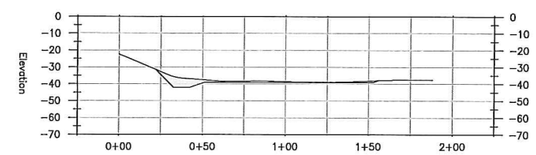

SECTION @ STA 4+50 LOOKING WEST
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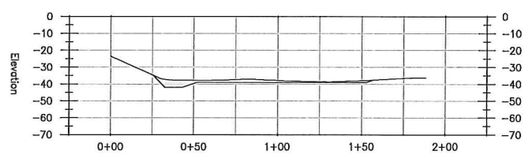

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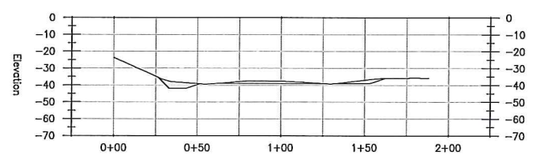

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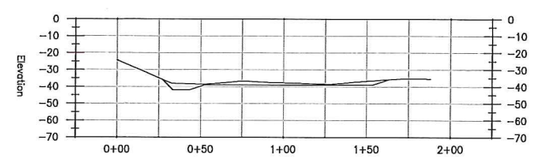

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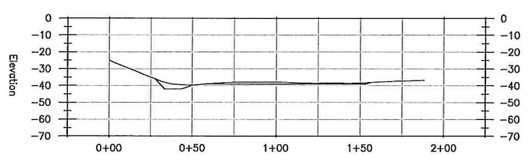

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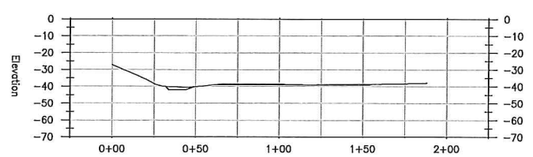

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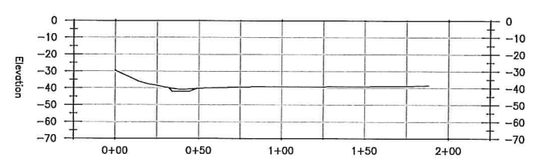

SECTION @ STA 7+50 LOOKING WEST
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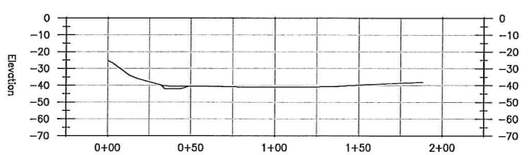

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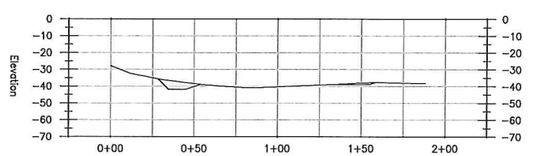

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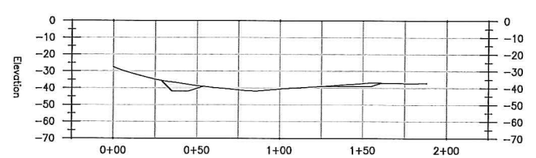

SECTION @ STA 9+00 LOOKING WEST
SCALE: 1"=40'-0"

1"=40'-0" 40 0 40 80
SCALE IN FEET

CHILDS ENGINEERING CORPORATION
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Mark	Description	Date	Appr.

Designed by: ARN
Drn by: TEQ
Chk by: ARN
Reviewed by: DLP
Date: 01/06/16
Design file no.: 263215 X-104
Scale: 1"=40'-0"

MOTIVA TERMINAL
CITGO / IRVING OIL
SOUTH PORTLAND, ME

DREDGING SECTIONS

Sheet reference number:
X-104
Sheet 2 of 2

TOM QUINN K:\26632-15.00 DREDGING SO. PORTLAND - CITGO\CADD\CURRENT WORKING DWGS\263215 X-104 DREDGING SECTIONS.DWG Jan 06, 2016 - 12:33pm