

Dave Favero

From: Hoertt, Susan <SHoertt@haleyaldrich.com>
Sent: Tuesday, June 2, 2015 6:18 PM
To: carnagieM@michigan.gov
Cc: Blayer, Ronda (DEQ); mccabej@michigan.gov; Dave Favero
Subject: April 2015 Monitoring Data for Romulus Engineering Center, RACER Site#10020
Attachments: 2015-0602_HAI_37515_RACER Romulus Chembox_Screening Tables.pdf; 2015-0601_HAI-Romulus_Table III_GW Countours Figures.pdf

Mary,

This correspondence is being sent on behalf of RACER in regard to the former Romulus Engineering Center, RACER Site#10020.

The attached files contain the summarized data of the April 14-15, 2015 field event conducted by Haley & Aldrich at the Romulus site. We are providing you a chembox figure that presents the soil and groundwater data collected through April 2015 and tables showing the criteria against which the detections were screened. Additionally, we are providing a summary table of the groundwater elevation measurements collected through April 2015 and the corresponding shallow groundwater potentiometric contour figures. Please note that the attached files include the September 2014 field event information previously provided to MDEQ on September 9, 2014.

The scope of work, approved by MDEQ via email on November 6, 2014, was conducted in accordance with procedures presented in the Field Sampling Plan and QAPP for the Site (Haley & Aldrich, September 24, 2012, approved by MDEQ in correspondence to RACER dated November 15, 2012). Pursuant to agreement with MDEQ, groundwater samples were collected from temporary wells (TW) 01-107 and TW 03-116 and the following down-gradient temporary wells: 01-101, 01-104, 01-105, and 02-109. Samples were analyzed for total and dissolved copper and total and dissolved selenium using laboratory method E 200.8. The validated data was screened against Michigan Part 201 Generic Cleanup Criteria (12/30/2013).

The analytical data for the groundwater samples collected from TW 01-107 and TW 03-116 are summarized below:

- In TW 01-107, total copper was detected in an amount below the groundwater surface water interface (GSI) screening criteria in September 2014. Total copper was detected above the GSI screening criteria in April 2015. Total and dissolved selenium were non-detect in the September 2014 and April 2015 sampling events. Total and dissolved copper and total and dissolved selenium were detected above the GSI screening criteria in the initial sampling event, which was conducted in February 2013.
- In TW 03-116, total copper was detected in amounts above the GSI screening criteria in September 2014 and April 2015. Total and dissolved selenium were non-detect in the September 2014 and April 2015 sampling events. Total and dissolved selenium were detected above the GSI screening criteria in the initial sampling event (February 2013).

Analytical results for the four down-gradient wells are below all screening criteria:

- Temporary wells 01-104, 01-105, and 02-109 had no detections of copper or selenium in the samples collected in September 2014 and April 2015. In TW 01-101, total copper was detected in September 2014 and total and dissolved copper were detected in April 2015; however, the detections were below all screening criteria.

Measurements of groundwater elevation in each of the 15 temporary wells located at the site were conducted during the April 2015 field event and show conditions generally similar to previous groundwater elevation measurement

events. The direction of groundwater flow remains toward the NE area of the site. The groundwater gradient is slightly shallower than it appeared in September 2014.

The results of the April 2015 field event continue to demonstrate that the constituents are not migrating off-site. This information will be captured in the amended RFI report for the Site.

The next sampling event planned for the site is July 2015. Per recent correspondence from MDEQ, we understand MDEQ will likely split samples, as it is anticipated the July 2015 event could be the final monitoring event for the Romulus site under this investigation. We propose conducting that event on July 14 and July 15, 2015. Please let us know if these dates are acceptable to you and we will confirm them with RACER and our field staff.

Please contact Dave Favero or me if you have any questions concerning the information conveyed in this correspondence.

Thank you.
Sue

Susan J. Hoertt, R.S., REHS, CPEA

Senior Scientist

Client Leader

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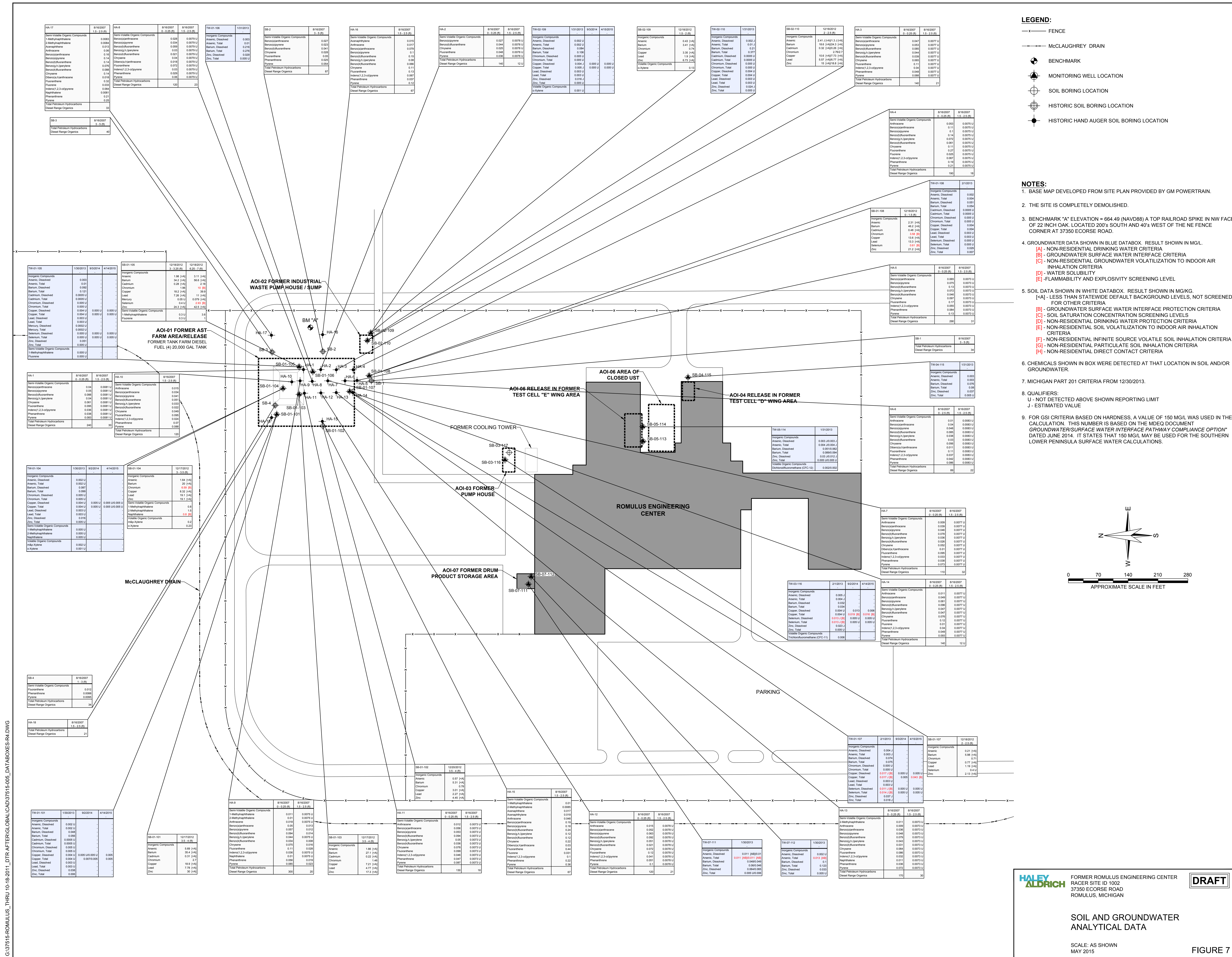


TABLE I
SUMMARY OF PART 201 SCREENING CRITERIA FOR SOIL
RACER FORMER ROMULUS ENGINEERING CENTER
ROMULUS, MI

chemical_name	Statewide Default Background Level Numbers	Groundwater Surface Water Interface (GSI) Protection Criteria	Soil Saturation Concentration Screening Level	Nonresidential Drinking Water Protection (DWP) Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Soil Direct Contact Criteria
Inorganic Compounds (mg/kg)								
Arsenic	5.8	4.6	-	4.6	-	-	910	37
Barium	75	440	-	1300	-	-	150000	130000
Cadmium	1.2	3	-	6	-	-	2200	2100
Chromium	-	3.3	-	30	-	-	240	9200
Copper	32	73	-	5800	-	-	59000	73000
Lead	21	2500	-	700	-	-	44000	900
Mercury	0.13	0.0012	-	1.7	89	62	8800	580
Selenium	0.41	0.4	-	4	-	-	59000	9600
Zinc	47	170	-	5000	-	-	-	630000
Semi-Volatile Organic Compounds (mg/kg)								
1-Methylnaphthalene	-	4.2	-	170	4900	1800	290000	26000
2-Methylnaphthalene	-	4.2	-	170	4900	1800	290000	26000
Acenaphthene	-	8.7	-	880	350000	97000	6200000	130000
Acenaphthylene	-	-	-	17	3000	2700	1000000	5200
Anthracene	-	-	-	41	1000000	1600000	29000000	730000
Benzo(a)anthracene	-	-	-	-	-	-	-	80
Benzo(a)pyrene	-	-	-	-	-	-	1900	8
Benzo(b)fluoranthene	-	-	-	-	-	-	-	80
Benzo(g,h,i)perylene	-	-	-	-	-	-	350000	7000
Benzo(k)fluoranthene	-	-	-	-	-	-	-	800
Chrysene	-	-	-	-	-	-	-	8000
Dibenz(a,h)anthracene	-	-	-	-	-	-	-	8
Fluoranthene	-	5.5	-	730	1000000	890000	4100000	130000
Fluorene	-	5.3	-	890	1000000	150000	4100000	87000
Indeno(1,2,3-cd)pyrene	-	-	-	-	-	-	-	80
Naphthalene	-	0.73	-	100	470	350	88000	52000
Phenanthrene	-	2.1	-	160	5100	190	2900	5200
Pyrene	-	-	-	480	1000000	780000	2900000	84000
Total Petroleum Hydrocarbons (mg/kg)								
Diesel Range Organics	-	-	-	-	-	-	-	-
Volatile Organic Compounds (mg/kg)								
m&p-Xylene	-	0.82	150	5.6	12000	54000	130000000	1000000
o-Xylene	-	0.82	150	5.6	12000	54000	130000000	1000000

Notes and Abbreviations:

- The table shows detected compounds in soil.
- The following surrogates are used for analytes that did not have published screening criteria:
 - Total Xylene is used for m&p-Xylene and o-Xylene
 - 2-Methylnaphthalene is used for 1-Methylnaphthalene
 - Chromium (VI) is used for Total Chromium
- Michigan Part 201 Generic Cleanup Criteria, dated 12/30/2013.

TABLE II
SUMMARY OF PART 201 SCREENING CRITERIA FOR GROUNDWATER
RACER FORMER ROMULUS ENGINEERING CENTER
ROMULUS, MI

chemical_name	Non-Residential Drinking Water Criteria	Groundwater Surface Water Interface (GSI) Criteria	Nonresidential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility Criteria	Flammability and Explosivity Screening Levels
Inorganic Compounds (mg/L)					
Arsenic	0.01	0.01	-	-	-
Arsenic, dissolved	0.01	0.01	-	-	-
Barium	2	0.67	-	-	-
Barium, dissolved	2	0.67	-	-	-
Copper	1	0.013	-	-	-
Copper, dissolved	1	0.013	-	-	-
Selenium	0.05	0.005	-	-	-
Selenium, dissolved	0.05	0.005	-	-	-
Zinc	5	0.17	-	-	-
Zinc, dissolved	5	0.17	-	-	-
Volatile Organic Compounds (mg/L)					
Dichlorodifluoromethane (CFC-12)	4.8	-	300	300	-
Trichlorofluoromethane (CFC-11)	7.3	-	1100	1100	-

Notes and Abbreviations:

1. The table shows detected compounds in groundwater.
2. Michigan Part 201 Generic Cleanup Criteria, dated 12/30/2013.

TABLE III (Updated April 2, 2015)
TEMPORARY MONITORING WELL INVENTORY AND COMPLETION SUMMARY
RACER FORMER ROMULUS ENGINEERING CENTER
ROMULUS, MICHIGAN

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Well ID	AOI Location	Date Installed	Approximate Location		Ground Elevation (ft. AMSL)	Top of Riser (ft. AMSL)	Well Diameter (in.)	Depth of Well from ground surface (ft.)	Screened Interval (ft BGS)	Screen Elevation (ft. AMSL)
			Northing	Easting						
01-101	AOI-01	12/17/2012	277830.45	13382927.68	664.61	666.46	1.5	8	3-8	661.61 - 665.61
01-103	AOI-01	12/18/2012	277779.47	13382976.34	663.98	665.58	1.5	10	5-10	658.98 - 653.98
01-104	AOI-01	12/17/2012	277817.94	13382989.27	665.05	666.01	1.5	14	9-14	656.05 - 651.05
01-105	AOI-01	12/18/2012	277782.11	13383041.15	665.16	665.71	1.5	10	5-10	660.16 - 655.16
01-106	AOI-01	12/18/2012	277749.46	13383030.55	661.09	664.12	1.5	13	3-13	658.09 - 648.09
01-107	AOI-01	12/20/2012	277661.69	13382987.52	662.91	665.77	1.5	7	2-7	660.91 - 655.91
01-108	AOI-01	12/20/2012	277617.38	13383025.68	662.01	664.94	1.5	7	2-7	660.01 - 655.01
02-109	AOI-02	12/18/2012	277616.85	13383125.95	665.20	666.95	1.5	13	3-13	662.20 - 652.20
02-110	AOI-02	12/18/2012	277624.32	13383107.85	664.81	666.44	1.5	9	4-9	660.81 - 655.81
07-111	AOI-07	12/18/2012	277227.83	13382549.99	664.82	665.68	1.5	9	4-9	660.82 - 655.82
07-112	AOI-07	12/18/2012	277222.09	13382567.78	664.56	665.91	1.5	8.5	3.5-8.5	661.06 - 656.06
05-113	AOI-05	12/19/2012	276970.49	13382893.70	665.50	667.36	1.5	8	3-8	662.50 - 657.50
05-114	AOI-05	12/19/2012	276972.49	13382927.88	665.53	668.56	1.5	7	2-7	663.53 - 658.53
04-115	AOI-04	12/19/2012	276870.59	13383047.21	665.41	666.57	1.5	9	4-9	661.41 - 656.41
03-116	AOI-03	12/19/2012	277292.61	13382839.32	665.46	668.15	1.5	10	5-10	660.46 - 655.46

Date of GW Level Monitoring	1/30/2013			7/25/2013			10/3/2013			4/15/2014			7/17/2014			9/2/2014			4/14/2015		
Well ID	Measured Depth to Bottom from TOR (ft.)	Depth to Water (ft. below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR (ft.)	Depth to Water (ft. below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR (ft.)	Depth to Water (ft. below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR (ft.)	Depth to Water (ft. below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR	Depth to Water (ft below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR	Depth to Water (ft below TOR)	GW Elevation (ft. AMSL)	Measured Depth to Bottom from TOR	Depth to Water (ft below TOR)	GW Elevation (ft. AMSL)
01-101	10.03	3.27	663.19	NT	4.55	661.91	10.05	6.75	659.71	10.05	3.08	663.38	10.05	6.21	660.25	10.05	6.09	660.37	10.05	3.10	663.36
01-103	11.55	3.12	662.46	NT	2.20	663.38	11.60	3.23	662.35	11.60	1.93	663.65	11.60	2.63	662.95	11.60	2.54	663.04	11.60	2.10	663.48
01-104	15.03	3.43	662.58	NT	2.90	663.11	15.08	4.02	661.99	15.05	2.55	663.46	15.05	3.46	662.55	15.05	3.17	662.84	15.05	2.60	663.41
01-105	10.30	2.67	663.04	NT	2.40	663.31	10.05	2.72	662.99	10.04	2.34	663.37	10.04	2.61	663.10	10.04	2.43	663.28	10.04	2.30	663.41
01-106	NT	NT	NT	NT	1.41	662.71	16.65	0.95	663.17	16.60	0.68	663.44	16.60	0.83	663.29	16.60	0.75	663.37	16.60	0.65	663.47
01-107	10.03	3.02	662.75	NT	2.40	663.37	10.05	2.62	663.15	10.04	2.32	663.45	10.04	2.5	663.27	10.04	2.42	663.35	10.04	2.25	663.52
01-108	10.30	2.26	662.68	NT	1.55	663.39	10.03	1.76	663.18	10.00	1.48	663.46	10.00	1.66	663.28	10.00	1.58	663.36	10.00	1.36	663.58
02-109	15.03	3.95	663.00	NT	4.02	662.93	15.05	4.65	662.30	15.05	3.85	663.10	15.05	4.46	662.49	15.05	4.10	662.85	15.05	3.85	663.10
02-110	10.02	3.45	662.99	NT	3.18	663.26	10.05	3.48	662.96	10.03	3.15	663.29	10.03	3.39	663.05	10.03	3.20	663.24	10.03	3.14	663.30
07-111	10.03	1.65	664.03	NT	2.10	663.58	10.05	2.73	662.95	10.05	1.81	663.87	10.05	2.31	663.37	10.05	2.00	663.68	10.05	1.96	663.72
07-112	10.00	1.78	664.13	NT	2.26	663.65	10.07	2.91	663.00	10.05	1.95	663.96	10.05	2.48	663.43	10.05	2.14	663.77	10.05	2.11	663.80
05-113	NT	1.81	665.55	NT	2.30	665.06	10.05	2.91	664.45	10.03	2.03	665.33	10.03	2.53	664.83	10.03	2.06	665.30	10.03	2.44	664.92
05-114	10.02	3.06	665.50	NT	3.56	665.00	10.06	4.15	664.41	10.05	3.01	665.55	10.05	3.75	664.81	10.05	3.40	665.16	10.05	3.70	664.86
04-115	10.30	1.50	665.07	NT	2.50	664.07	10.07	3.94	662.63	10.05	1.95	664.62	10.05	3.21	663.36	10.05	2.25	664.32	10.05	2.40	664.17
03-116	12.55	3.61	664.54	NT	4.22	663.93	12.60	4.98	663.17	12.60	4.13	664.02	12.60	4.55	663.60	12.60	4.14	664.01	12.60	4.20	663.95

Notes:
AMSL = Above Mean Sea Level
AOI = Area of Interest
BGS = Below Ground Surface
ft. = Feet
GW = Groundwater
in. = Inches
NT = Not Taken
TOR = Top of Riser

Drawing Name: G:\37515-Romulus Engineering Center\005-RFI Implementation\CAD\37515-005_08 GW CNTRS 2014.dwg
Operator Name: ROWLAND, QUA Plot Date: August 13, 2014 Layout: GW Cont (JAN 13)

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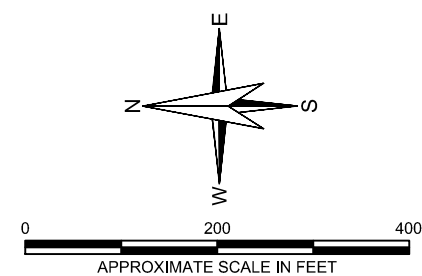
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- x — FENCE LINE
— ··· — McCLAUGHREY DRAIN
● TEMPORARY MONITORING WELL
⊙ SOIL BORING
⊕ BENCHMARK

- 665 — GROUNDWATER CONTOUR LINE
665.07 GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY GM POWERTRAIN.
2. THE SITE IS COMPLETELY DEMOLISHED.
3. BENCHMARK "A" ELEVATION = 664.49 (NAVD88) A TOP RAILROAD SPIKE IN NW FACE OF 22 INCH OAK. LOCATED 200'± SOUTH AND 40'± WEST OF THE NE FENCE CORNER AT 37350 ECORSE ROAD.



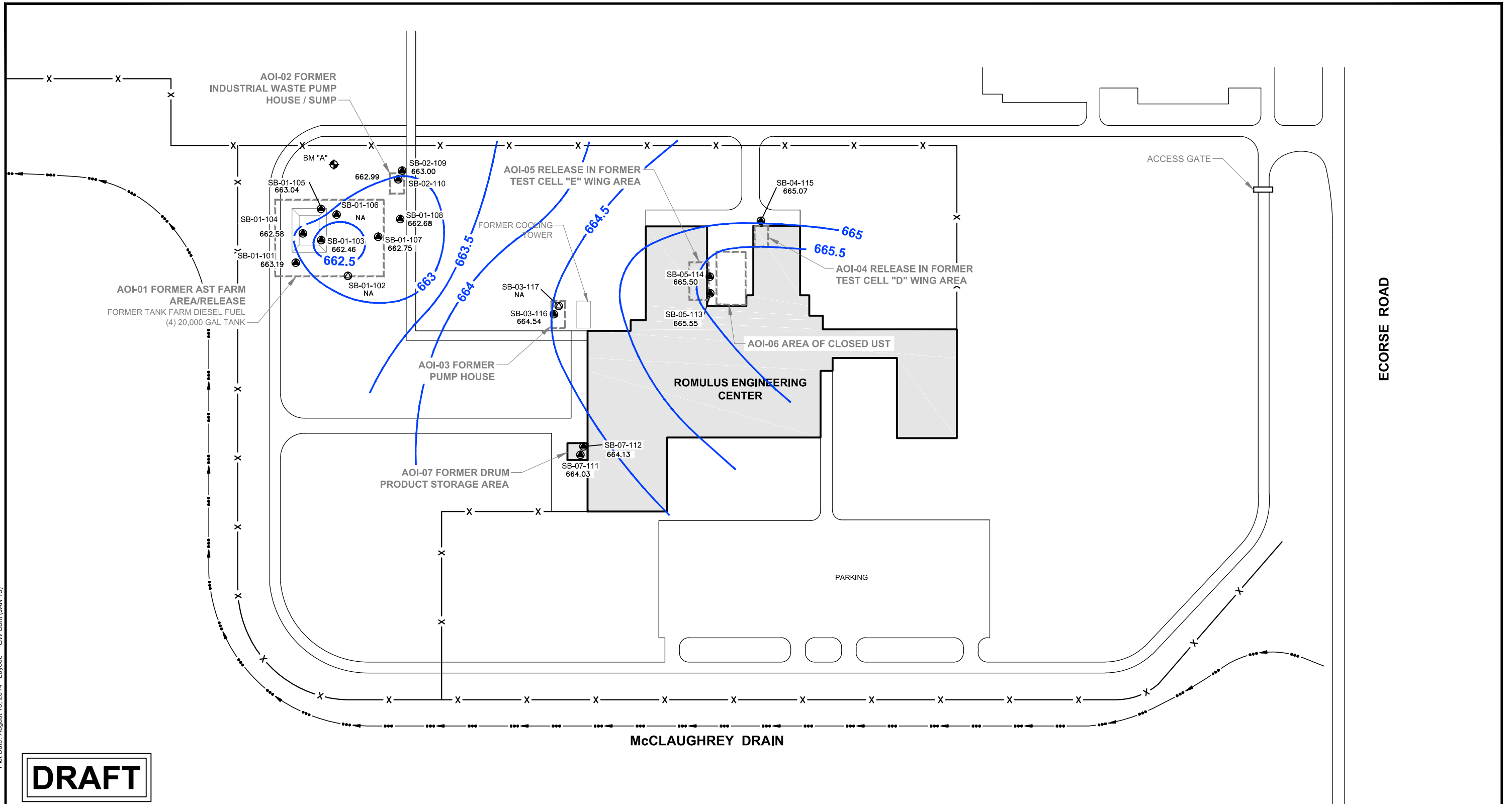
HALEY & ALDRICH

FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
JANUARY 30, 2013

SCALE: AS SHOWN
AUGUST 2014

FIGURE 1



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Plot Date: August 13, 2014
Layout: GW Cont (JUL 13)

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LEGEND

— x — FENCE LINE

— ··· — McCLAUGHREY DRAIN

● TEMPORARY MONITORING WELL

⊙ SOIL BORING

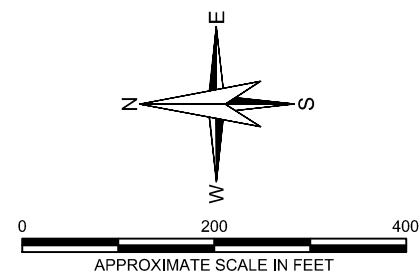
⊕ BENCHMARK

665 — GROUNDWATER CONTOUR LINE

665.07 GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY GM POWERTRAIN.
2. THE SITE IS COMPLETELY DEMOLISHED.
3. BENCHMARK "A" ELEVATION = 664.49 (NAVD88) A TOP RAILROAD SPIKE IN NW FACE OF 22 INCH OAK. LOCATED 200'± SOUTH AND 40'± WEST OF THE NE FENCE CORNER AT 37350 ECORSE ROAD.



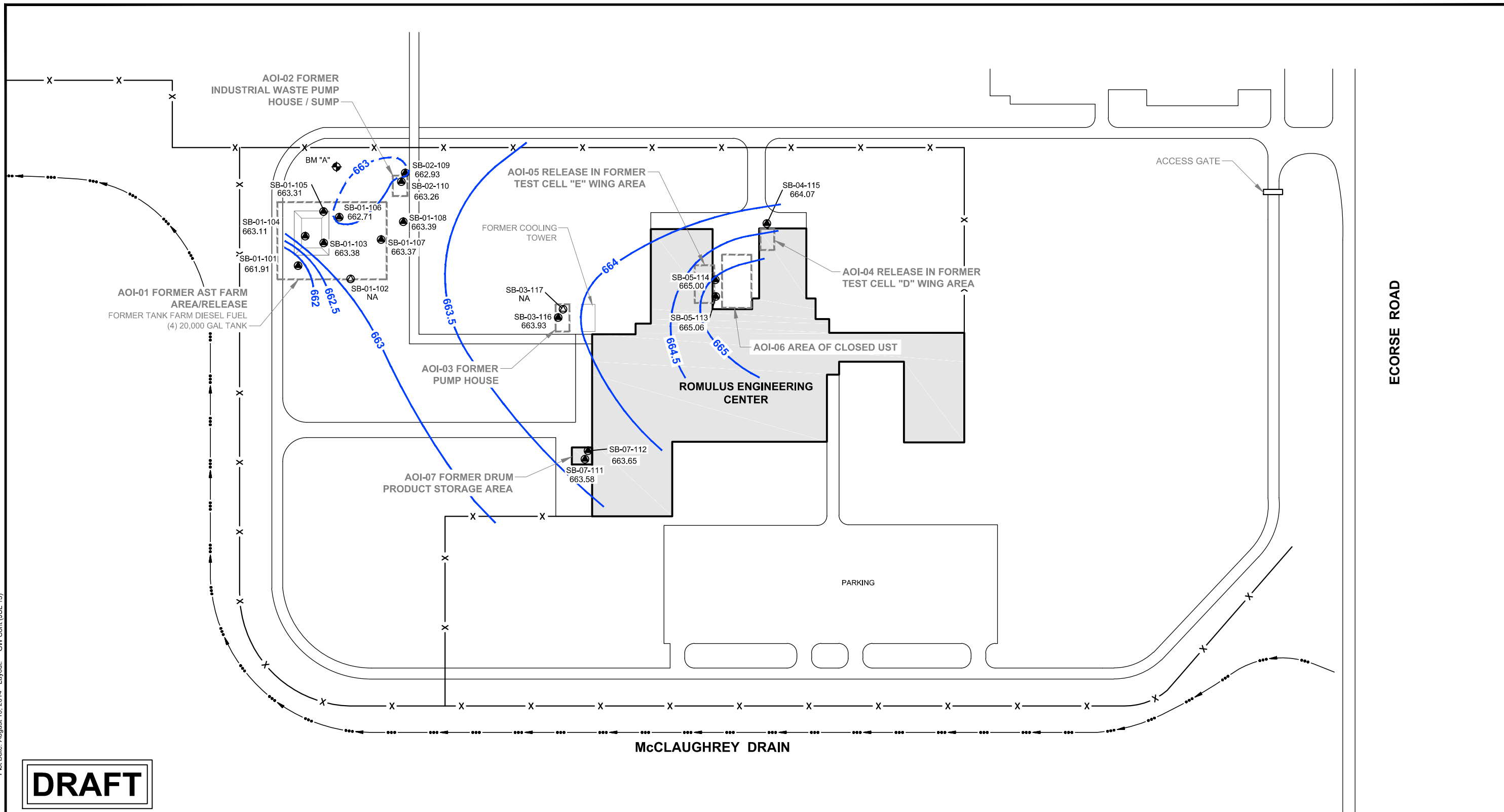
HALEY & ALDRICH

FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
JULY 25, 2013

SCALE: AS SHOWN
AUGUST 2014

FIGURE 2



Drawing Name: G:\37515-Romulus Engineering Center\005-RFI Implementation\CAD\37515-005_08 GW CNTRS 2014.dwg
Operator Name: ROWLAND, QUA
Plot Date: August 13, 2014
Layout: GW Cont (OCT 13)

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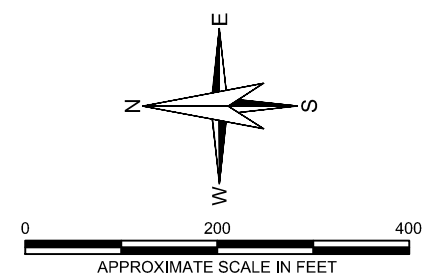
LEGEND

- x — FENCE LINE
- ··· — McCLAGHREY DRAIN
- TEMPORARY MONITORING WELL
- ⊙ SOIL BORING
- ⊕ BENCHMARK

- 662.5 — GROUNDWATER CONTOUR LINE
- 662.95 — GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY GM POWERTRAIN.
2. THE SITE IS COMPLETELY DEMOLISHED.
3. BENCHMARK "A" ELEVATION = 664.49 (NAVD88) A TOP RAILROAD SPIKE IN NW FACE OF 22 INCH OAK. LOCATED 200'± SOUTH AND 40'± WEST OF THE NE FENCE CORNER AT 37350 ECORSE ROAD.



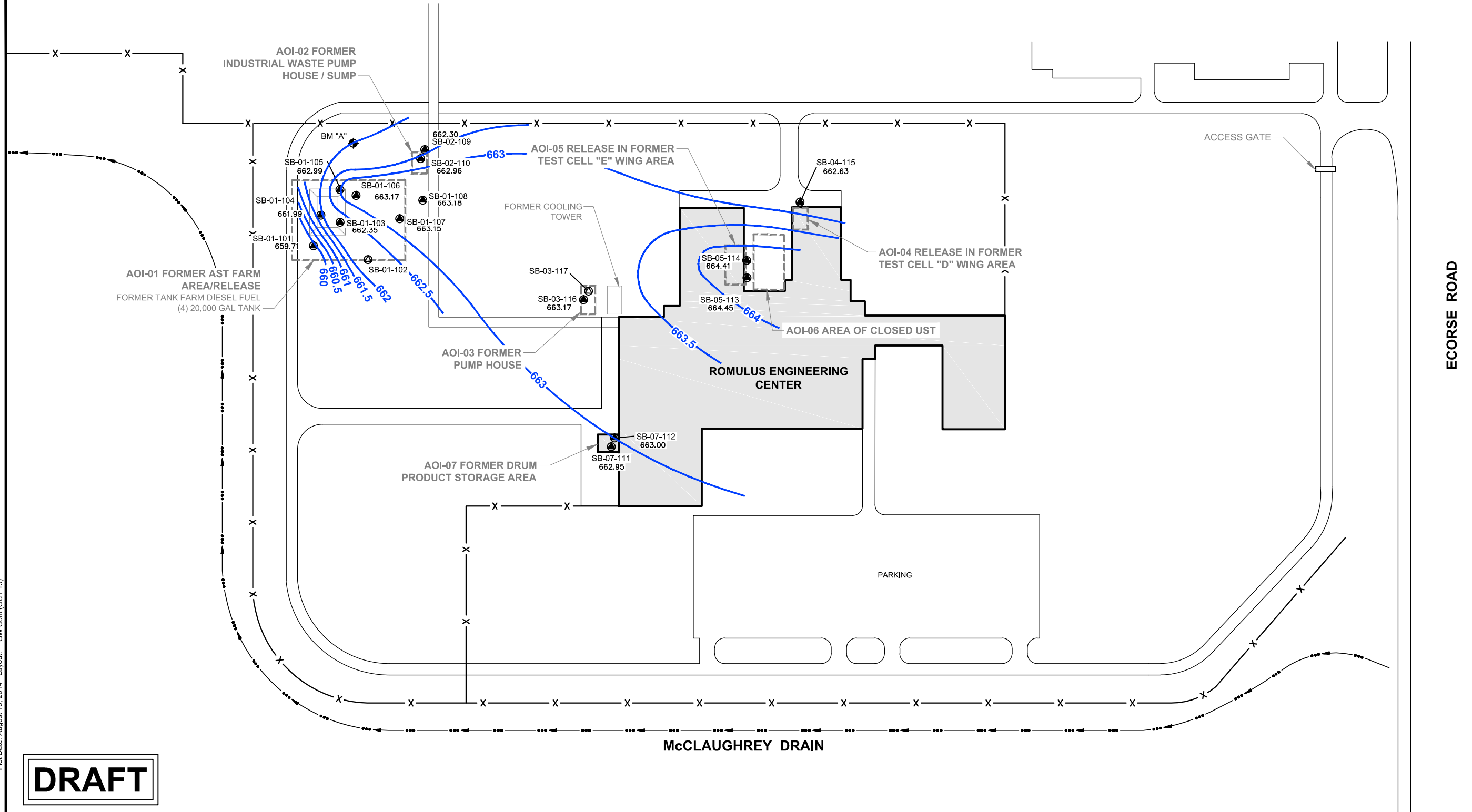
HALEY & ALDRICH

FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

**SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
OCTOBER 3, 2013**

SCALE: AS SHOWN
AUGUST 2014

FIGURE 3



Drawing Name: G:\37515-Romulus Engineering Center\005-RFI Implementation\CAD\37515-005_08 GW CNTRS 2014.dwg
Operator Name: ROWLAND, QUA
Plot Date: May 15, 2015
Layout: GW Cont (APR 14)

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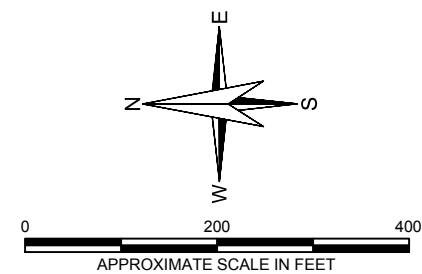
LEGEND

- x — FENCE LINE
- ··· — McCLAUGHREY DRAIN
- TEMPORARY MONITORING WELL
- ⊙ SOIL BORING
- ⊕ BENCHMARK

664 — GROUNDWATER CONTOUR LINE
663.93 GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY GM POWERTRAIN.
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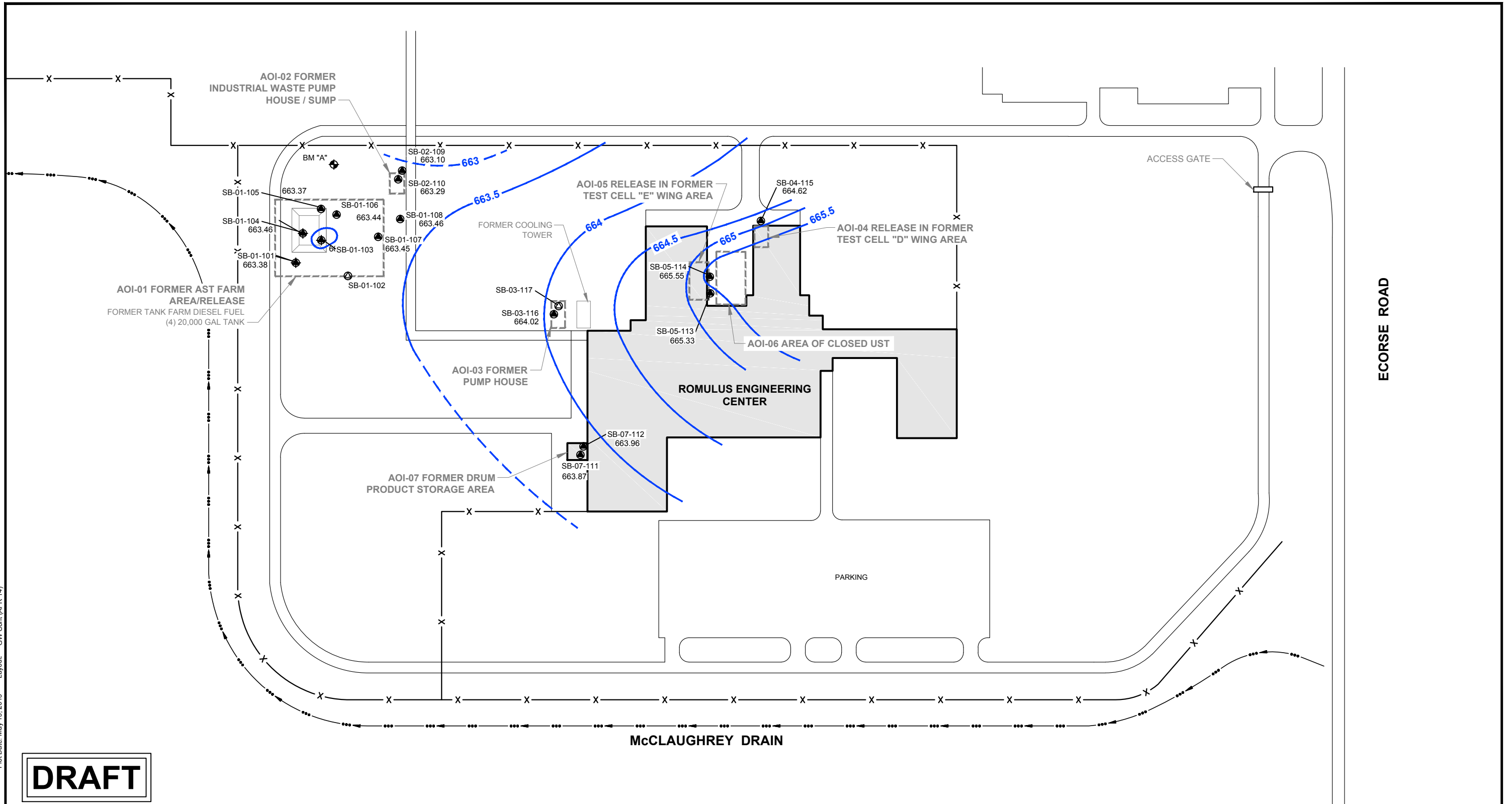
HALEY & ALDRICH

FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

**SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
APRIL 15, 2014**

SCALE: AS SHOWN
AUGUST 2014

FIGURE 3



Drawing Name: G:\37515-Romulus Engineering Center\005-RFI Implementation\CAD\37515-005_08 GW CNTRS 2014.dwg
Operator Name: ROWLAND, QUA
Plot Date: May 15, 2015
Layout: GW Cont (JUL 14)

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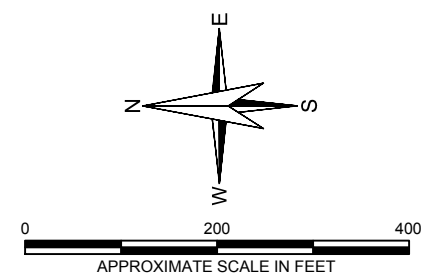
LEGEND

- x — FENCE LINE
- ··· — McClAUGHREY DRAIN
- TEMPORARY MONITORING WELL
- ⊙ SOIL BORING
- ⊕ BENCHMARK

664 — GROUNDWATER CONTOUR LINE
663.93 GROUNDWATER ELEVATION

NOTES

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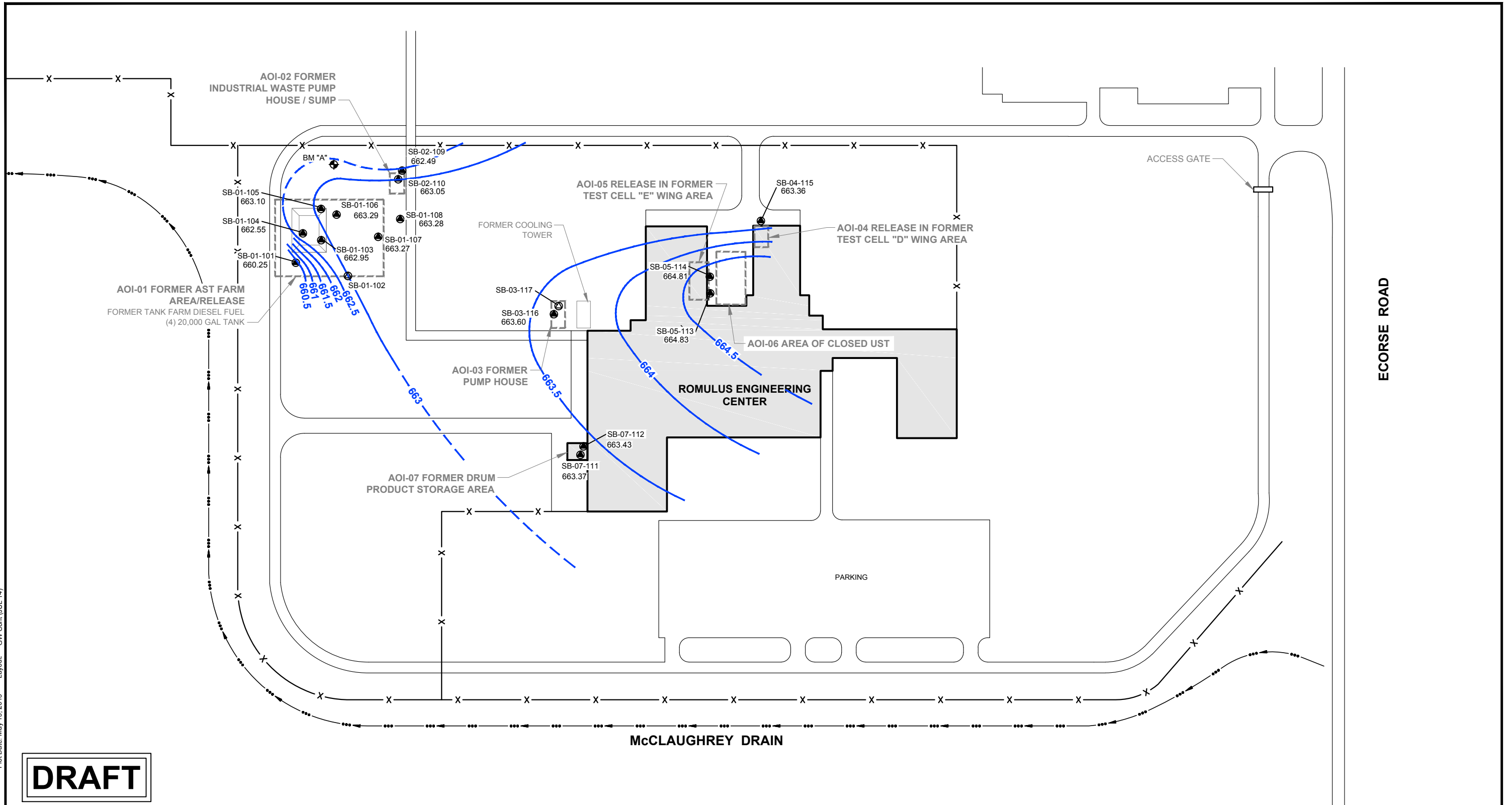


HALEY & ALDRICH FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

**SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
JULY 17, 2014**

SCALE: AS SHOWN
AUGUST 2014

FIGURE 2



Drawing Name: G:\37515-Romulus Engineering Center\005-RFI Implementation\CAD\37515-005_08 GW CNTRS 2014.dwg
Operator Name: ROWLAND, QUA Plot Date: May 15, 2015 Layout: GW Cont (SEP 14)

DRAFT

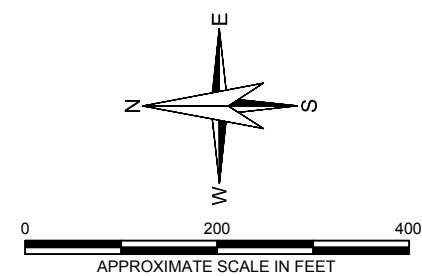
LEGEND

- x — FENCE LINE
— ··· — McClAUGHREY DRAIN
● TEMPORARY MONITORING WELL
⊙ SOIL BORING
⊕ BENCHMARK

664 — GROUNDWATER CONTOUR LINE
663.93 GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY GM POWERTRAIN.
2. THE SITE IS COMPLETELY DEMOLISHED.
3. BENCHMARK "A" ELEVATION = 664.49 (NAVD88) A TOP RAILROAD SPIKE IN NW FACE OF 22 INCH OAK. LOCATED 200'± SOUTH AND 40'± WEST OF THE NE FENCE CORNER AT 37350 ECORSE ROAD.

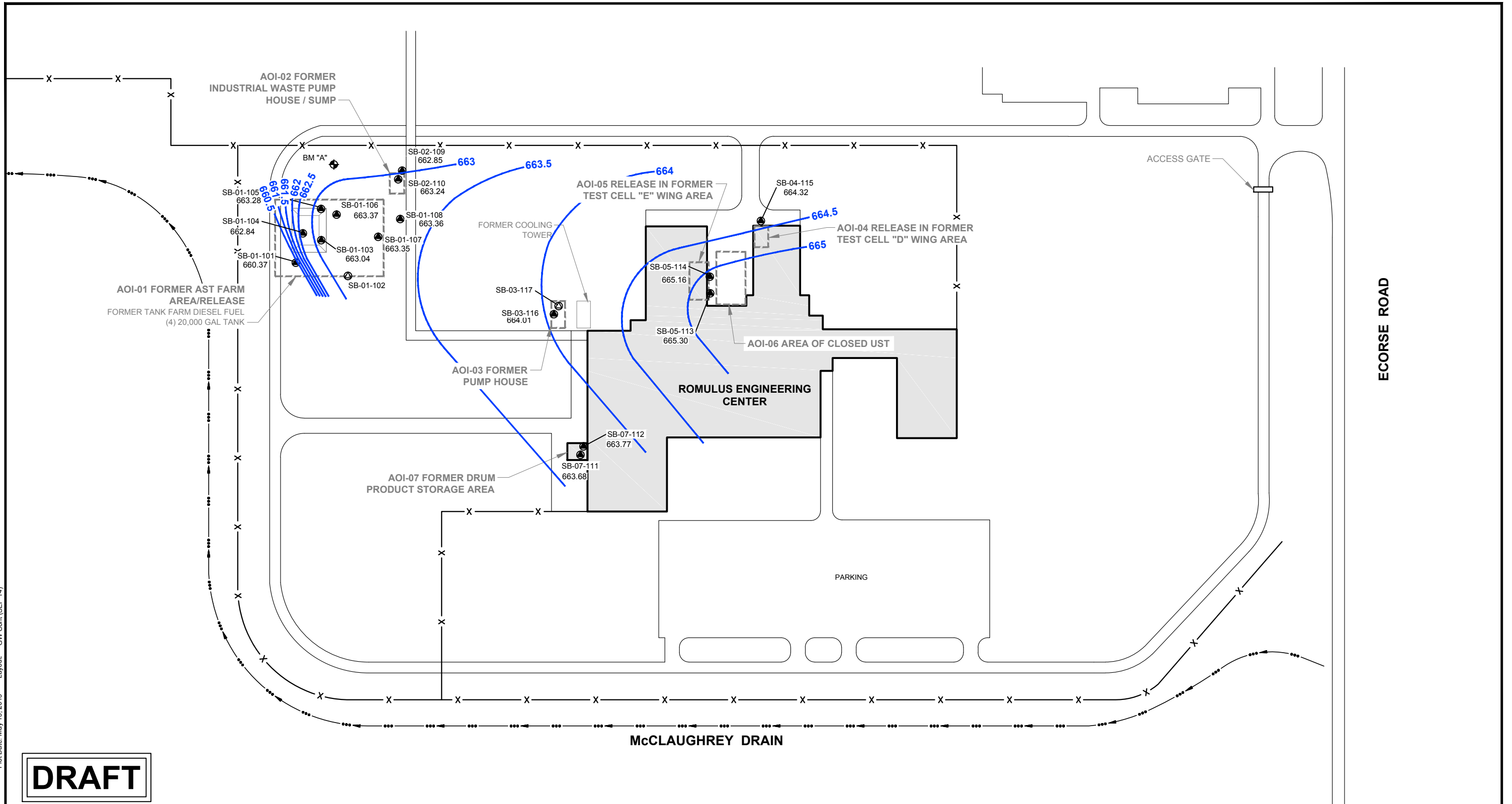


HALEY & ALDRICH FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOURS
SEPTEMBER 2, 2014

SCALE: AS SHOWN
SEPTEMBER 2014

FIGURE 1



DRAFT

LEGEND

- X — FENCE LINE
— ··· — McCLAGHREY DRAIN
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0 200 400
SCALE IN FEET

**HALEY
ALDRICH**

FORMER ROMULUS ENGINEERING CENTER
RACER SITE ID 1002
37350 ECORSE ROAD
ROMULUS, MICHIGAN

**SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE
CONTOURS APRIL 14, 2015**

SCALE: AS SHOWN
APRIL 2015

FIGURE 1

