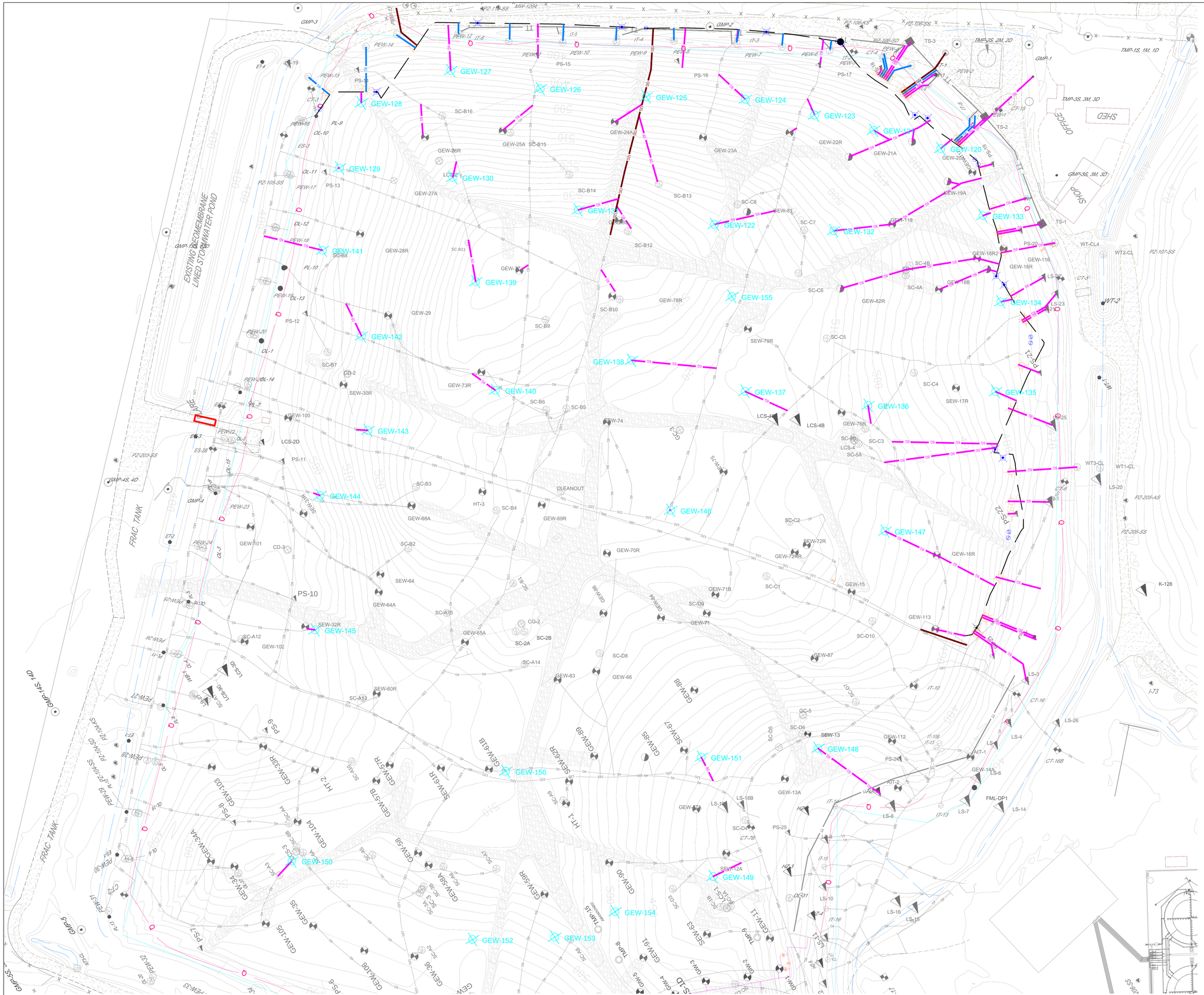


0' 50' 100' Feet

1" = 50'

LEGEND

- SOLID WASTE BOUNDARY
- EXISTING TOPO
- GAS MONITORING PROBE
- PIEZOMETER MONITORING WELL
- GAS EXTRACTION WELL
- DUAL GAS EXTRACTION WELL
- SURFACE EXTRACTION WELL
- PERIMETER GAS EXTRACTION WELL
- GRIT CHAMBER
- LIFT STATION
- CONDENSATE SUMP
- LEACHATE COLLECTION SUMP
- HORIZONTAL COLLECTION SUMP
- PERIMETER SUMP
- LEACHATE COLLECTION SUMP
- SURFACE COLLECTOR
- TEMPERATURE MONITORING PROBE
- SUBSURFACE RCP WELLS
- TRENCH SUMP
- INTERCEPTION TRENCH RISER
- PERIMETER LEACHATE SUMP
- WELL HEAD RISER
- WELL BORE BOOT
- TRENCH SUMP
- OVER LINER TIE IN POINT
- GAS INTERCEPTOR WELL
- CLEAN OUT
- QUARRY WALL
- BURIED LFG COLLECTION PIPING
- 2" ABOVE GROUND LFG COLLECTION LATERAL PIPING
- 4" ABOVE GROUND LFG COLLECTION LATERAL PIPING
- 6" ABOVE GROUND LFG COLLECTION LATERAL PIPING
- 8" ABOVE GROUND LFG COLLECTION LATERAL PIPING
- 6" ABOVE GROUND LFG COLLECTION HEADER PIPING
- 8" ABOVE GROUND LFG COLLECTION HEADER PIPING
- 10" STEEL GROUND LFG COLLECTION PIPING
- 12" ABOVE GROUND LFG COLLECTION HEADER PIPING
- 18" ABOVE GROUND LFG COLLECTION HEADER PIPING
- PROPOSED PERIMETER HEADER
- PROPOSED 18" HEADER
- PROPOSED 12" HEADER
- PROPOSED 6" LATERAL
- PROPOSED PEW 4" LATERAL
- GEW-127 PROPOSED GAS EXTRACTION WELL

BRIDGETON LANDFILL, LLC
13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

BRIDGETON LANDFILL
PROPOSED SOUTH SLOPE
HEADER SYSTEM
PERMIT DRAWINGS

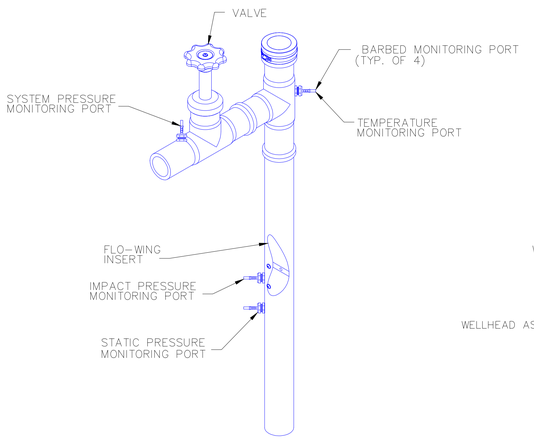
Engineering for a Better World
FEEZOR ENGINEERING, INC.

GAS WELL INSTALLATION - PLAN

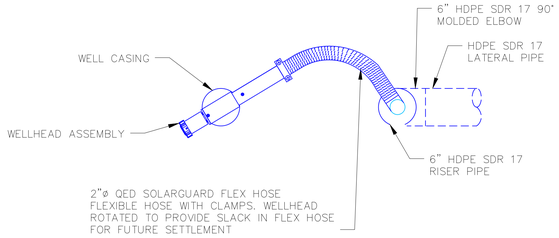
NOVEMBER 2014	
DESIGNED BY: BJV	
APPROVED BY: DRF	
BJV	12/01/2014
BJV	12/11/2014
REVISION	DATE

DRAWING NO.: 009

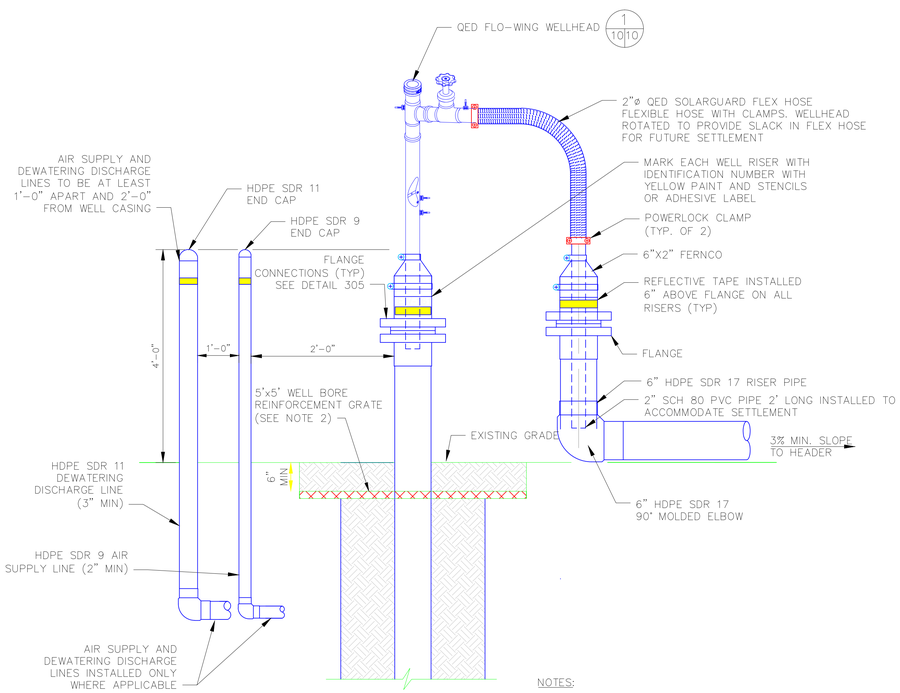
PROJECT NUMBER: BT-039 | FILE PATH: C:\Users\PaulDrayton\Bridgeton\BT-02\Drawings\Infrastructure Site Plan 2014 Q1 - CAD\xref\Title Block 42x36 XREF - TEMPLATE.dwg



FLO-WING WELLHEAD (1 / 10|10)
NOT TO SCALE



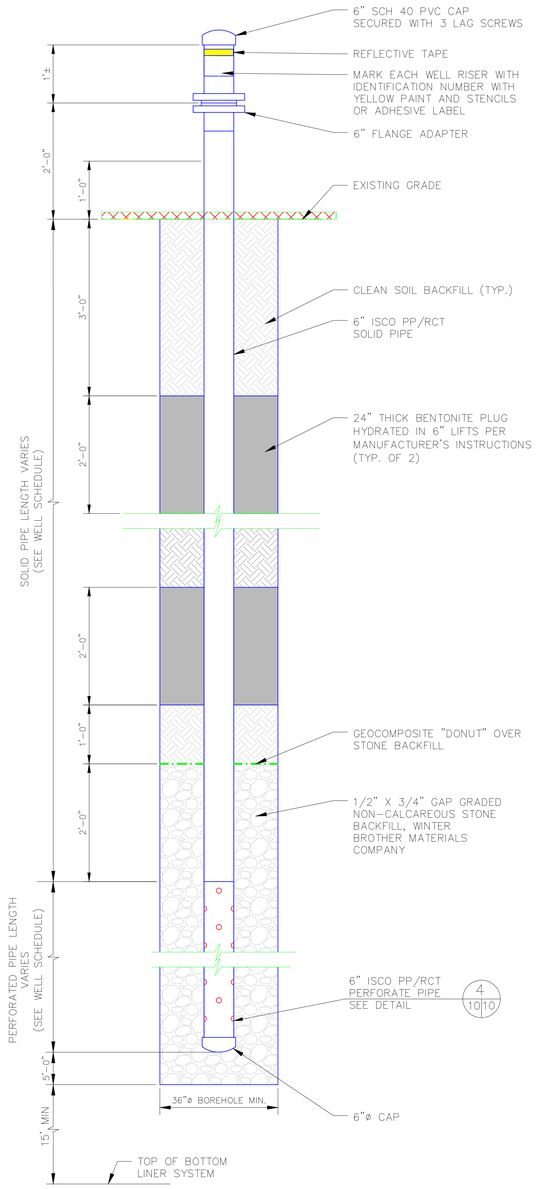
PLAN VIEW



NOTES:

1. CONTRACTOR TO SUPPLY FULL ORIFICE PLATE PACKAGE FOR WELLHEAD AND DOCUMENT SIZE INSTALLED WITH ENVIRONMENTAL MANAGER AND TECHNICIAN.
2. WHILE INSTALLING LATERAL RISER, EXCAVATE AROUND WELL CASING AND LOWER WELL BORE REINFORCEMENT GRATE.
3. CQA INSPECTOR SHALL DOCUMENT FINAL DEPTH OF WELL BORE REINFORCEMENT GRATE FOR EACH WELL.

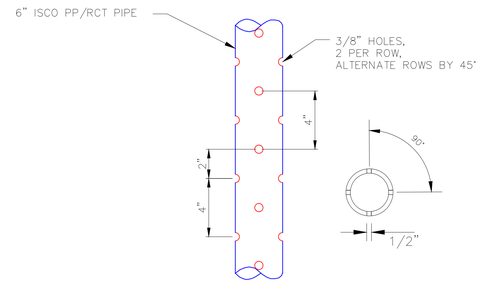
WELLHEAD DETAIL (2 / 10|10)
NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL SURVEY THE PROPOSED WELL LOCATIONS AND PROVIDE THE EXISTING GROUND SURFACE ELEVATION AT EACH LOCATION TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WELL DRILLING.
2. ENGINEER SHALL ADJUST WELL SCHEDULE AS NECESSARY BASED ON THE PRE-CONSTRUCTION SURVEY.
3. ALL SIGNATURES REQUIRED ON THE FINAL WELL SCHEDULE PRIOR TO COMMENCEMENT OF DRILLING.
4. WELL BORE REINFORCEMENT GRATE SHALL BE 100% WELDED AND CONFIGURED WITH 3/8" REBAR WITH 6"X6" SPACING. GRATE SHALL HAVE A 12"X12" SQUARE CENTER SPACED CUTOUT FOR WELL CASING. WELL BORE GRATE SHALL BE PURCHASED FROM REPUBLIC'S NATIONAL MATERIAL SUPPLIER ONLY.
5. INSTALL WELL BORE REINFORCEMENT GRATE ON GRADE AROUND WELL IMMEDIATELY AFTER COMPLETING WELL. DURING INSTALLATION OF LATERAL RISER, GRATE SHALL BE BURIED.
6. THE GAS WELL DEPTH, MATERIAL OF CONSTRUCTION, PERFORATION PATTERN AND BACKFILL MATERIAL WERE SPECIFIED BY REPUBLIC SERVICES, INC.

LFG EXTRACTION WELL DETAIL (3 / 9|10)
NOT TO SCALE



NOTES:

1. PERFORATIONS SPACED 90° APART HORIZONTALLY.
2. PERFORATIONS SPACED 4" APART VERTICALLY.
3. 90° AND 270° ROWS STAGGERED 2" BELOW 0° AND 180° ROWS.
4. THE MATERIAL OF CONSTRUCTION AND PERFORATION PATTERN WERE SPECIFIED BY REPUBLICS SERVICES, INC.

PERFORATED PIPE DETAIL (4 / 10|10)
NOT TO SCALE

WELL SCHEDULE

WELL ID	Northing	Easting	November 30, 2014 Survey	December 09, 2014 Survey	Bottom of Boring	Quarry Bottom 1979 Topo	Db Boring Depth	Solid Pipe Above Grade	Solid Pipe Below Grade	Dp Perforated Pipe (5' from bottom of well)	Thickness of Gravel Pack
			(Feet MSL)	(Feet MSL)	(Feet MSL)	(Feet MSL)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
GEW-120	1,066,915.4	515,415.4	470.3	N/A	385.3	320.0	85	3	15	65	72
GEW-121	1,066,843.8	515,479.6	479.6	N/A	394.6	351.5	85	3	15	65	72
GEW-122	1,066,834.3	515,735.2	513.2	N/A	413.2	270.0	100	3	15	80	87
GEW-123	1,066,782.0	515,537.0	485.6	N/A	400.6	307.6	85	3	15	65	72
GEW-124	1,066,711.9	515,605.6	487.4	N/A	402.4	296.5	85	3	15	65	72
GEW-125	1,066,634.9	515,719.1	492.8	N/A	434.5	429.5	58	3	15	38	45
GEW-126	1,066,546.2	515,836.2	494.0	N/A	427.8	422.8	66	3	15	46	53
GEW-127	1,066,458.2	515,926.9	489.9	N/A	450.9	445.9	39	3	15	19	26
GEW-128	1,066,428.9	516,055.0	495.7	N/A	447.9	442.9	48	3	15	28	35
GEW-129	1,066,488.2	516,129.0	497.6	N/A	412.6	396.8	85	3	15	65	72
GEW-130	1,066,583.9	516,004.4	521.7	N/A	421.7	250.0	100	3	15	80	87
GEW-131	1,066,715.6	515,882.8	520.5	N/A	420.5	251.3	100	3	15	80	87
GEW-132	1,066,930.9	515,601.4	496.8	N/A	396.8	269.7	100	3	15	80	87
GEW-133	1,067,024.9	515,416.5	469.3	N/A	384.3	327.3	85	3	15	65	72
GEW-134	1,067,138.5	515,460.2	474.3	N/A	389.3	344.0	85	3	15	65	72
GEW-135	1,067,239.0	515,533.4	478.3	N/A	393.3	360.0	85	3	15	65	72
GEW-136	1,067,159.7	515,692.0	496.6	N/A	396.6	256.5	100	3	15	80	87
GEW-137	1,067,051.5	515,824.5	508.5	N/A	408.5	250.0	100	3	15	80	87
GEW-138	1,066,930.4	515,933.4	513.3	N/A	413.3	250.0	100	3	15	80	87
GEW-139	1,066,722.4	516,055.7	532.1	N/A	432.1	250.0	100	3	15	80	87
GEW-140	1,066,863.5	516,114.1	515.9	N/A	415.9	250.0	100	3	15	80	87
GEW-141	1,066,571.3	516,210.4	497.6	N/A	419.4	414.4	78	3	15	58	65
GEW-142	1,066,700.2	516,229.1	504.7	N/A	404.7	250.0	100	3	15	80	87
GEW-143	1,066,814.7	516,292.2	505.0	N/A	405.0	250.0	100	3	15	80	87
GEW-144	1,066,854.7	516,396.7	497.4	N/A	397.4	250.0	100	3	15	80	87
GEW-145	1,067,007.4	516,502.9	489.1	N/A	389.1	250.0	100	3	15	80	87
GEW-146	1,067,134.2	516,000.0	513.9	N/A	413.9	250.0	100	3	15	80	87
GEW-147	1,067,318.7	515,766.3	491.7	N/A	391.7	270.4	100	3	15	80	87
GEW-148	1,067,521.1	516,006.8	471.4	N/A	371.4	338.6	100	3	15	80	87
GEW-149	1,067,591.8	516,224.7	479.3	N/A	379.3	279.2	100	3	15	80	87
GEW-150	1,067,258.7	516,702.8	501.3	N/A	401.3	258.0	100	3	15	80	87
GEW-151	1,067,444.2	516,149.1	485.5	N/A	385.5	300.7	100	3	15	80	87
GEW-152	1,067,485.2	516,551.5	N/A	491.3	391.3	257.0	100	3	15	80	87
GEW-153	1,067,543.9	516,454.3	N/A	497.5	397.5	259.9	100	3	15	80	87
GEW-154	1,067,559.5	516,365.0	N/A	493.7	393.7	263.7	100	3	15	80	87
GEW-155	1,066,931.2	515,768.9	N/A	509.7	409.7	250.0	100	3	15	80	87
GEW-156	1,067,314.3	516,387.1	N/A	502.4	402.4	250.0	100	3	15	80	87

NOTES:

1. "Quarry Bottom" elevation taken from 1979 topography provided by Aquaterra.
2. Boring depths determined by Republic Services, inc. personnel.

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BRIDGETON LANDFILL
PROPOSED SOUTH SLOPE
HEADER SYSTEM
PERMIT DRAWINGS

FEEZOR ENGINEERING, INC.
Engineering for a Better World

NOVEMBER 2014
DESIGNED BY: ARBV
APPROVED BY: DRF

REVISION	DATE
BJV	12/01/2014
BJV	12/02/2014
BJV	12/11/2014

DRAWING NO.: 010

GAS WELL DETAILS

PROJECT NUMBER: BT-039 | FILE PATH: