1. CONTRACTOR TO REPAIR DAMAGED INFRASTRUCTURE.
2. ALL EXISTING INFRASTRUCTURE TO BE PROTECTED IN PLACE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONTRACTOR OR THEIR EMPLOYEES.

LIMIT OF 11-01-19 GOSLEE SURVEY. SEE NOTE 2
LIMITATION OF 11-01-19 GOSLEE SURVEY. SEE NOTE 2

SURVEY NOTICE:
1. CONTOURS AND LINES SHOWN OUTSIDE OF PROJECT AREA PRODUCED BY PHOTOGRAMMETRIC METHODS USING 3D SPATIAL POINTS (X, Y, Z) AND FORCES IN NORTH CAROLINA, USA. SURVEY AND MAPSHOWN IN REFERENCE TO CAY, SCOTT C. WILLIAMS, 509 E. NORTH AVENUE, WILMINGTON, NC 28401, NORTH CAROLINA PROFESSIONAL LAND SURVEYOR.
2. THE PHOTOGRAMMETRIC SURVEY WAS PERFORMED BY ROBERT H. GOSLEE & ASSOCIATES, PA, P.O. BOX 133, WALLACE, NC 28466, MANLEY D. CARR. N. CAROLINA PROFESSIONAL LAND SURVEYOR.

GOSLEE & ASSOC., PA, 53 CHESTNUT STREET, WILMINGTON, NORTH CAROLINA 28401, TEL: 910-763-1941.

VERTICAL DATUM 1929.

SCOTT C. WILLIAMS, L-4071, NORTH CAROLINA PROFESSIONAL LAND SURVEYOR.

BENCHMARK DATA SHOWN FROM BOUNDARY SURVEY DATED JANUARY 22, 2013 PERFORMED BY ROBERT H. GOSLEE & ASSOCIATES, PA, P.O. BOX 133, WALLACE, NC 28466, MANLEY D. CARR. N. CAROLINA PROFESSIONAL LAND SURVEYOR.
REQUIREMENTS FOR VERIFICATION AND DOCUMENTATION OF INTERMEDIATE COVER PREPARATION.

- LOCATED IN THE PLAN SET.
- DESIGNATED IN THE LEGEND.

- THE GRAADING ALONG THE TOE OF SLOPE WILL PROVIDE THE ABILITY TO PROJECT AREA.
- THIS DRAWING REFLECTS PROPOSED GRADES WITHIN THE PROJECT AREAS AS REPAIRED BY THE CONTRACTOR UNLESS SPECIFICALLY WAIVED BY THE COUNTY AND SHALL BE LEFT IN BELOW THE TOP OF INTERMEDIATE COVER.

- SEE THE SPECIFICATIONS AND DETAILS FOR THE LINER PROPOSED GRADES SHOWN DEPICT PROPOSED ELEVATIONS FOR THE TOP OF INTERMEDIATE COVER ON CONTRACT.

- MULCH AND STRIP EXISTING VEGETATION WITHIN THE SYSTEM REQUIREMENTS.
- WELD THE CAP LINER TO THE BOTTOM LINER LOCATED ALONG THE TOP OF BERM.
- SEE DETAILS WHICH THE LINER SYSTEM IS PLACED.

- TOP OF WASTE GRADES ARE LOCATED 1 FOOT (MINIMUM) AS GOOD A CONDITION AS BEFORE THE START OF WORK.

- ANY FENCE OR PART THEREOF OUTSIDE THE PROJECT LIMIT, INCLUDING SEDIMENTATION BARRIER, THAT IS DAMAGED OR REMOVED DURING THE COURSE OF THE WORK SHALL BE REPLACED OR MAINTAINED.

- CONTRACTOR SHALL REMOVE MULCH AND STRIP EXISTING VEGETATION WITHIN THE PROJECT LIMIT.

- CLOSURE PHASE 3

- TOP LINER LIMIT
- SEE DETAIL
- CLOSURE CAPPING AT EXISTING HEADER/LATERAL CLEANOUT
- SEE DETAIL

- LINER TIE-IN TO EXISTING CLOSED AREA
- SEE DETAIL

- SIDE SLOPE LINER LIMIT
- SEE DETAIL

- TYPICAL CLOSURE GRADING AT TOE OF SLOPE
- SEE DETAIL
- TERRACE GRADING DETAIL
- SEE DETAIL
- SIDE SLOPE LINER LIMIT
- SEE DETAIL

- EXISTING ELEVATION CONTOURS
- APPROXIMATE EDGE OF EXISTING CLOSURE
- APPROXIMATE EDGE OF EXISTING CLOSURE

- CLOSURE PHASE 3

- BOUNDARY ELEVATION CONTOURS
- CELLS 2 - 6E PARTIAL CLOSURE 3

- AS SHOWN

- DRAWING NO.
- SCALE:
- DATE:
- CHK.
- Q/A RVW BY:
- APP. BY:
- DSN. BY:
- PROJ. NO.
- DESCRIPTION

- ISSUED FOR BID
- DATE:
- 01/09/20

- PRINTED COPIES OF THIS DOCUMENT ARE NOT INDICATED ON THE COVER PAGE.

- ELECTRONIC COPIES.

- CONSIDERED SIGNED AND SEALED AND THE SEAL OF IAN SPURLOCK, P.E. ON THE DATE THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY IAN SPURLOCK, P.E.
1. IF CONTRACTOR DAMAGES EXISTING ASPHALT PAVEMENT, REPAIRS WILL BE MADE AT NO EXPENSE TO THE OWNER.

2. RESULT IN POSITIVE DRAINAGE TO THE EXISTING STRUCTURES. SOD DAMAGED BY FEET ABOVE FINISHED GRADE AND PAINTED OSHA YELLOW. SEE DETAILS 4 AND 5 SHEET 10.

3. CONTRACTOR SHALL PROVIDE 4X4 POSTS SPACED EVERY 100' TO MARK THE EDGE OF LINER. THE POST SHALL BE BURIED IN THE ANCHOR TRENCH AND EXTEND A MINIMUM OF FOUR FEET INTO THE TRENCH.

4. ADDITIONAL COST TO THE OWNER. REPAIR WILL UTILIZE EQUAL OR SUPERIOR MATERIAL.

5. PREPARATION.

DETAILED REQUIREMENTS FOR VERIFICATION AND DOCUMENTATION OF FINAL COVER REFER TO THE FIELD ENGINEERING AND SURVEY SPECIFICATION SECTION 1050 FOR FINISHED GRADES WILL VARY BASED ON THE FINAL TOP OF INTERMEDIATE COVER. PROPOSED CONTOURS REFERENCE CONCEPT FINAL COVER ELEVATIONS. THE ACTUAL

NOTE: 3.

4.

5.

6.

7.
STORM WATER

DATE

DAMAGED GFFR SHALL BE REPAIRED ACCORDING TO DETAIL 2 ON SHEET 11.

OF SLOPE. SEE DETAIL 4 SHEET 8. SIDE SLOPE AND TERRACE TOE DRAINS TO BE INSTALLED TO TOE DRAIN DISCHARGES AT THE BOTTOM SWALE TO BE PLACED AT 100' INTERVALS ALONG THE TOE.

SEDIMENT AND EROSION CONTROL:

1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH GUIDELINES IN THE CONSTRUCTION DOCUMENTS AND APPLICABLE ENVIRONMENTAL REGULATIONS.

2. PROXIMITY AND CONFINEMENT FINAL EROSION CONTROL, THE ACTUAL PREVAILING ORDERS WILL APPLY BASED ON THE FINAL TOP OF IMPERVIOUS COVER.

3. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER. FAILURE TO DO SO WILL RESULT IN STOPPAGE OF ALL OTHER WORK UNTIL SAID PROXIMITY AND CONFINEMENT FINAL EROSION CONTROL MEASURES ARE INSTALLED.

4. DAMAGED GFFR SHALL BE REPAIRED ACCORDING TO DETAIL 2 ON SHEET 11.

LEGEND

- APPROXIMATE LOCATION OF SET FENCE
- TOP OF FRESH RAPID CLOSURE
- SURFACE WATER FLOW DIRECTION
- SET FENCE WALL
- APPROXIMATE ENCLOSED AREA
- SET FENCE WALL
- SET FENCE WALL
- SOIL EROSION
- LIMIT OF SIGHT
- TOP OF DRAIN
1. THE CONTRACTOR SHALL REMOVE AND STORE THE EXISTING DRAINAGE NETS AT THE TOE OF SLOPE, WITH THE MATERIALS BEING RESTORED TO THE LOCATION OF SUCH MATERIALS AND RESTORED TO THE SAME CONDITION AS STORED. THE EXISTING DRAINAGE NETS SHALL BE STORED IN THE AREA BETWEEN THE TOE DRAIN PERFORATION PATTERN AND THE SWALE TO BE CONSTRUCTED.

2. THE EXISTING DRAINAGE NETS SHALL BE STORED WITHIN 2.0' OF THE SWALE TO BE CONSTRUCTED. THE CONTRACTOR SHALL REMOVE ANY MATERIALS STORED WITHIN 2.0' OF THE SWALE TO BE CONSTRUCTED AND STORED IN A LOCATION OUTSIDE OF THE SWALE.

3. SEE DETAIL TOE DRAIN PERFORATION PATTERN

4. OPEN THROAT OF THE STRUCTURE.

5. THE CONTRACTOR SHALL REGRADE AND SOD THE TOE OF SLOPE DETAIL.

6. SEE DETAIL 18"x24" ROUNDED RIVER ROCK

7. WRAP GEOTEXTILE AROUND 30' ROADWAY

8. THE CONTRACTOR SHALL REGRADE AND SOD THE TOE OF SLOPE DETAIL.

9. EXISTING BOTTOM LINER SYSTEM BEFORE TRENCHING

10. PLACE DRAIN Pipes AT 100.0' INTERVALS ALONG SIDE OF CLOSURE AREA

11. GEOCOMPOSITE DRAINAGE NET WITH GEOTEXTILE ON BOTH SIDES.

12. ELECTRONIC COPIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT INDICATED ON THE COVER PAGE.

13. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY IAN SPURLOCK, P.E. ON THE DATE THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED.
NOTES:

1. 0° CORRESPONDS TO PIPE INVERT.
2. PROVIDE TWO 1/2" Ø PERFORATIONS AS SHOWN; 6" O.C.
3. PERFORATIONS SHALL BE LOCATED ON THE BOTTOM OF THE PIPE AS SHOWN.

EXISTING STONE
ADDITIONAL STONE BASE
EXISTING SOIL
NCDOT TYPE I 19.0B ASPHALTIC CONCRETE OVERLAY
EXTRUSION WELD 40 MIL (MIN) FML
BOOT SEAL TO LINER THEN OVERLAY PER CAPPING SYSTEM DETAIL
PROTECTIVE COVER
INTERMEDIATE COVER
EXIST. 6" Ø SOLID HDPE SDR 11 PIPE
1/4" x 2" CLOSED CELL NEOPRENE SPONGE
1/8" x 2" STAINLESS STEEL RATCHET CLAMP
FINAL CLOSURE GRADE
DOUBLE SIDED GEOCOMPOSITE
40 MIL TEXTURED LLDPE GEOMEMBRANE
PERFORATED HDPE PIPE SEE NOTE 2
4" Ø BUTT FUSION END CAP DR 11
4" Ø PIPE HDPE SDR 11
1/2" Ø HOLES

NOTE:

1. TYPICAL OF ALL PIPE SIZES.
1. Remove existing cover soil layer and/or trench and carefully expose liner and decomposed fill. Roll back decomposed fill and protect Liner. Mark the edge of the new liner, connect new and existing Liner, and extrusion weld new Liner to existing Liner. Connect new and existing GeoComposites. Roll back GeoComposite and remove existing cover soil over anchor trench and carefully expose Liner and decomposed fill.

2. 4" X 4" MARKER STAKE TO BE LOCATED EVERY 10' TO MARK THE EDGE OF THE NEW LINER. MARKER STAKES SHALL BE PAINTED OSHA SAFETY YELLOW.

3. NOTE 100' AND AT ANGLE CHANGES OF EDGE OF LINER

4. 4" HDPE FLAT STOCK ACCESS COVER

5. 1 1/2" HDPE FLAT STOCK PLATE CONNECTION

6. CLOSURE CAPPING AT EXISTING TOE DRAIN AT TOE OF SLOPE

7. CLOSURE LINER WELD TO EXIST. LINER AND EXISTING GEOCOMPOSITES.

8. EDGE OF LINER MARKER WITH TREATED 6" X 6" POST. SEE NOTE 1

9. BOLLARD DETAIL

10. 6" GALV. STEEL BOLLARD FILLED WITH CONCRETE, PAINTED OSHA SAFETY YELLOW

11. CONCRETE - HAND TROWEL FINISH SLOPE AWAY FROM BOLLARD AND SLAB FROM CENTER IN ALL DIRECTIONS TO PROMOTE DRAINAGE AWAY FROM BOLLARD AND SLAB

12. NOTE threshhold conditions of Liner tie-in to existing closed area detail

13. NOT TO SCALE LINER TIE-IN TO EXISTING CLOSED AREA DETAIL

14. NOT TO SCALE SIDELOPE LINER LIMIT DETAIL

15. NOT TO SCALE SIDESLOPE LIMIT ALONG EXISTING TOE TO BE

16. 4" X 4" MARKER STAKE TO BE LOCATED EVERY 10' TO MARK THE EDGE OF THE NEW LINER. MARKER STAKES SHALL BE PAINTED OSHA SAFETY YELLOW.

17. 1.0' EXISTING TOE AND EXISTING GEOCOMPOSITES.

18. EXTRUSION WELD NEW LINER TO EXISTING LINER. CONNECT NEW AND EXPOSE LINER AND GEOCOMPOSITE. ROLL BACK GEOCOMPOSITE AND REMOVE EXISTING COVER SOIL OVER ANCHOR TRENCH AND CAREFULLY EXCAVATE AREA FOR BOLLARD INSTALLATION IN ORDER TO MAKE THE EDGE OF THE NEW LINER. MARKER STAKES SHALL BE PAINTED OSHA SAFETY YELLOW.

19. 8.0' MIN 40-MIL PIPE STEEL CLAMP STAINLESS BOLT ON STAINLESS STEEL HANDLE

20. EXISTING INTERMEDIATE COVER. TREATED 4" X 4" POST. SEE NOTE 1

21. SPRINKLER SYSTEM CONNECTED TO EXISTING interior CLEANOUT PIPE

22. HEADER/LATERAL CLEANOUT DETAIL
1. Stormwater interceptor spillway detail
2. Inline energy dissipater basin detail
3. Energy dissipater section
4. Energy dissipater without drop inlet detail
5. Inline energy dissipater basin detail
6. GFR repair detail
7. Energy dissipater without drop inlet detail
8. Energy dissipater basin detail
9. Stormwater interceptor spillway detail
10. GFR spillway detail

NOTE:
1. GFR terminations at top and toe of slope will include typical 2-foot anchor.
2. Energy dissipater section
3. Energy dissipater without drop inlet detail
4. Inline energy dissipater basin detail
5. GFR repair detail
6. Energy dissipater without drop inlet detail
7. Energy dissipater basin detail
8. Stormwater interceptor spillway detail
9. GFR spillway detail

NOTE:
1. Grout around all GFR penetrations with non-shrinking grout.
NOTE 1: AS A RESULT OF THE INCONSISTENT SIDE SLOPE GRADE THE LENGTH OF THE SIDE SLOPE BERMS REQUIRED TO MATCH EXISTING GRADE WILL ALSO VARY. THE LENGTH OF THE BERMS WILL DIRECTLY EFFECT THE VOLUME OF PROTECTIVE COVER REQUIRED FOR BERM CONSTRUCTION.

NOTE 2: ALL HDPE TEE'S, CROSSES AND WYE'S WILL MEET THE 12" DOWNCHUTE PIPE INVERT TO INVERT.

NOTE 3: DOUBLE WYE'S WILL NOT BE ALLOWED ALL CONNECTIONS LARGER THAN 4" WILL BE OFFSET BY 1.0' MINIMUM WHERE THEY MEET THE 12" DOWNCHUTE.
GENERAL NOTES:
1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR HEALTH AND SAFETY OF ALL CONTRACTOR’S EMPLOYEES, WORKERS, AND/or SUBCONTRACTORS AT THE PROJECT SITE.
3. CONTRACTOR WILL PREPARE A SITE-SPECIFIC HEALTH AND SAFETY (H&S) PLAN FOR EACH SITE AND PROVIDE A COPY OF THIS H&S PLAN TO ENGINEER OR OWNER SOLELY FOR RECORDS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ENFORCEMENT OF THE H&S PLAN AND WILL IMPLEMENT ALL SAFETY PROCEDURES TO ADDRESS HAZARDS TO WORKERS, PUBLIC, AND ENVIRONMENT ARISING OUT OF CONTRACTOR’S ACTIVITIES AT THE SITE.
4. WORK AT A LANDFILL SITE IS GENERALLY WITHIN A ZONE OF POTENTIAL LANDFILL GAS MIGRATION AND/or ACCUMULATION. CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR OBTAINING AND USING LANDFILL GAS MONITORING INSTRUMENTATION (e.g., PHOTOIONIZATION DETECTOR, HM2, ETc.) FOR MEASURING LOWEST EXPLOSIVE LIMIT (LEL) AND HYDROGEN SULFIDE (H2S) WITHIN ALL EXCAVATIONS, DRILLS, TRENCHES, TIES-INS, ETc., FOR THE SAFETY OF ITS PERSONNEL.
5. SMOKING IS STRICTLY PROHIBITED AT THE LANDFILL.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO ALL PERSONS ON THE SITE OR WHO MAY BE AFFECTED BY THE WORK; ALL THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, AND OTHER PROPERTY AT THE SITE.
7. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REQUIREMENTS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION.
8. CONTRACTOR’S DUTIES AND RESPONSIBILITIES FOR SAFETY AND FOR PROTECTION OF PERSONS AND PROPERTY ON THE SITE SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETE.
9. CONTRACTOR SHALL DESIGNATE A QUALIFIED AND EXPERIENCED SAFETY REPRESENTATIVE AT THE SITE WHOSE DUTIES AND RESPONSIBILITIES SHALL BE THE PREVENTION OF ACCIDENTS AND THE MAINTAINING AND SUPERVISING OF SAFETY PROGRAMS AND PROCEDURES.
10. CONTRACTOR SHALL SUPERVISE, INSPECT, AND DIRECT THE WORK COMPETENTLY AND EFFECTIVELY, DEVOTING SUCH ATTENTION THERETO AND APPLYING SUCH SKILLS AND EXPERTISE AS MAY BE NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. AT ALL TIMES DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL ASSIGN A COMPETENT REPRESENTATIVE (SUPERINTENDENT) WHO SHALL NOT BE REPLACED WITHOUT WRITTEN NOTICE TO OWNER AND ENGINEER EXCEPT UNDER EXTRAORDINARY CIRCUMSTANCES. THE SUPERINTENDENT WILL BE CONTRACTOR’S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF CONTRACTOR. ALL COMMUNICATIONS GIVEN TO OR RECEIVED FROM THE SUPERINTENDENT SHALL BE BINDING ON CONTRACTOR.
12. CONTRACTOR SHALL PROVIDE COMPETENT, SAFELY QUALIFIED PERSONNEL TO SURVEY AND LAY OUT THE WORK AND PERFORM CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS. CONTRACTOR SHALL AT ALL TIMES MAINTAIN GOOD DISCIPLINE AND ORDER AT THE SITE. THE OWNER MAY DIRECT IMMEDIATE REMOVAL OF ANY PERSON/mainwindow WHO VIOLATES THESE REQUIREMENTS.
13. THE WORK TO BE PERFORMED INCLUDES, BUT IS NOT LIMITED TO, THE CONSTRUCTION AND INSTALLATION OF THE LANDFILL GAS COLLECTION AND CONTROL SYSTEM DESCRIBED ON THESE CONSTRUCTION DRAWINGS AND DEFINED IN THE CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS.
NEW LFG VERTICAL EXTRACTION WELL SCHEDULE

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<th>Perfoked Pipe</th>
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**TOTALS** 417 387 30 35 387

1. WELL BORE REINFORCEMENT GRATE SHALL BE 100% WELDED AND CONFIGURED WITH 1" REBAR WITH 6"x6" SPACING. GRADE SHALL HAVE A 12"x12" SQUARE CENTER SPACED CUTOUT FOR WELL CASING PIPE.

2. WELL BORE REINFORCEMENT GRATE SHALL BE INSTALLED A MINIMUM OF 0 FEET BELOW THE EXISTING GROUND SURFACE IMMEDIATELY AFTER COMPLETING THE WELL.
ACCESS ROAD HEADER/LATERAL PIPE CROSSING DETAIL

NOTES:
1. INSTALL PERMANENT MARKER PIPE TO NOTE EDGES OF ROAD CROSSING.

HOPE LSF HEADER PIPE (SIZE VARIES)
HOPE SDR-11 TEE (SEE NOTES)
HOPE REDUCERS AS REQUIRED
HOPE LSF LATERAL
TO EXTRACTION WELL
HOPE BUTT-FUSION WELD

NOTES:
1. HOPE WELDED TEE SHALL BE USED TO TIE-IN 2½" AND LARGER LSF LATERAL TO 6¾" HEADER AND SMALLER.
2. 1½" MIN. OF SAND WILL BE PLACED BELOW EACH TEE. THE SAND WILL BE INSTALLED TO A MINIUM OF EACH DIRECTION OF THE TEE. SAND WILL BE SUFFICIENTLY THICKEND AND ALIGNED GRADED MATERIAL SUPPORT TO ALL PARTS OF THE TEE. THE HOPE BUTT-FUSION WELD OF THE 1½" MIN. BEING DURABLE TO ELIMINATE ALL HOLES.

LATERAL TIE-IN WITH TEE DETAIL

ANCHOR TRENCH CROSSING DETAIL

NOTES:
1. CONTRACTOR SHALL REPAIR DAMAGE TO LINER WHILE INSTALLING LSF PIPE AT THE CONTRACTOR'S EXPENSE.
2. AIRLINE AND FORKHOE PIPE NOT SHOWN FOR CLARITY.
THI FEMALE + FEMALE
THREADED 316
STAINLESS STEEL BALL
VALVE HANDLE AND RATED FOR
200 PS MAX. PRESSURE

1/2" x 1/2" S.S. BUSHING

2" HOE 90° PIPE
(TIP)

1/2" HOE 90° PIPE
(TIP)

2" HOE 90° PIPE
(TIP)

2" HOE 90° PIPE
(TIP)

1/2" HOE 90° PIPE
(TIP)

1/2" HOE 90° PIPE
(TIP)

NOTES:
1. TO BE PlACED INSIDE OR OUTSIDE OF LAG NELL
2. CONTRACTOR SHALL INSTALL TWO (2) 4-INCH DIAMETER STEEL BOLLARDS ON ROADSIDE OF THE VALUE FOR PROTECTION. DO NOT PLACE BOLLARDS ON THE ROAD.

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STAINLESS STEEL BALL
VALVE HANDLE AND RATED FOR
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NOTES:
1. 3/8" S.S. Ball Valve and Glycol Filled Pressure Gauge (0=200 psi range).
2. Cleanout type shall be installed where indicated by "C/O" on the GC's proposed site plan - Drawing No. 16.
3. Contractor shall install two (2) 6-inch diameter steel bollards on road side of the cleanout for protection (see detail no. 2 on Drawing No. 16). Do not place bollards on the road.

DUAL CONTAINMENT FORECEMAIN PIPE CLEANOUT DETAIL

3" or 4" W.R. SCH-40 PIPE OR STAINLESS STEEL PIPE

3/4" X 6" MAX

1/2" Female x Female threaded for stainless steel ball valve with lever handle and rated for 250 psi max pressure.

2" x 1/2" S.S. Bushing

1/2" HOPE REDUCER AND 2" HOPE TO 3/5" THREADED FITTING.

1/2" stainless steel bell valve with lever handle and rated for 250 psi max pressure.

3/4" TREATED TIMBER SUPPORT POST

EXISTING DRAIN

5/8" HOPE REDUCER AND 3" HOPE TO 3/5" THREADED FITTING

STAINLESS STEEL BELL VALVE WITH LEVER HANDLE AND RATED FOR 250 PSI MAX PRESSURE

GALVANIZED WORM GEAR CLAMP (TYP.) SECURED AROUND PIPE AND SUPPORT POST

NOTE:
1. TO BE PLACED INSIDE OF LANDFILL

FORCEMAIN BLOW-OFF VALVE DETAIL

NOTE:

3/4" SCH-11 MOLDED ELBOW (TYP.)

LOCATED INSIDE LANDFILL – EXTEND 3/4" X 8" SQUARE MARINE PLYWOOD TO VERTICAL POSTS.
SUMP CONSTRUCTION NOTES:
1. CONTRACTOR SHALL PROVIDE ALL COMPONENTS SHOWN AND NOT SHOWN FOR A COMPLETE AND OPERATIONAL SUMP.
2. 3/8" OD STAINLESS STEEL WIRE ROPE FOR PIPE SUPPORT AND RETENTION. WIRE ROPE AT EACH END SHALL HAVE STAINLESS STEEL BOLTS, NUTS AND WASHERS. 3/8" OD STAINLESS STEEL QUICK LINKS AND FIELD ASSEMBLABLE STAINLESS STEEL CLAMPS (3 FOR EACH END). USE STAINLESS STEEL QUICK LINKS AND FIELD ASSEMBLABLE STAINLESS STEEL CLAMPS (3 FOR EACH END).
3. BRASS VACUUM MONITORING PORT WITH JACKETED NYLON TUBING (1/2" OD MIL) AND NOSE BARS WITH TUFF CAP, TYP. FOR BOTH PIPES.
4. PLACED PUMP BOTTOM 6" ABOVE START OF 1 1/2" HOLES.
5. CONTRACTOR SHALL PROVIDE FOUR (4) STEEL PIPE BOLTS AROUND SUMP.
6. SUBMIT SHOP DRAWING FOR SUMP PRIOR TO FABRICATION.
7. CONTRACTOR SHALL INSTALL TWO (2) 6-INCH DIAMETER STEEL BOLLS ON ROAD SIDE OF EACH SUMP FOR PROTECTION (SEE DETAIL NO. 2 ON DRAWING NO. 19). DO NOT PLACE BOLLS ON THE ROAD.
8. GROUNDWATER ESTIMATED AT 9 FT WILL CONTRACTOR'S RESPONSIBILITY TO DE-WATER DURING CONSTRUCTION.

CONDENSATE SUMP CS-6 DETAIL

CONNECTION FITTING
1" EQUALIZATION LINE WITH STAINLESS STEEL VALVE
- SINGLE STAGE FILTER, PRESSURE REGULATOR AND CLOSER MOUNTED TO OUTSIDE OF SUMP
1" AIR LINE
AIR SUPPLY VALVE (SEE DETAIL ON DRAWING NO. 17
5/8" OD PUMP AIR EXHAUST FITTING
- CABLE ANCHOR FITTING
- SUMP ACCESS WITH OØ 2" RELEASABLE BOLTS
- HOPE OR PVC SUMP TOP WITH STAINLESS STEEL BOLTS, NUTS, AND WASHERS
- CABLE ANCHOR FITTING
- 1" STAINLESS STEEL CHECK VALVE
- 1" STAINLESS STEEL VALVE
- NEW 1" DIA HOPE TO STAINLESS STEEL TRANSITION FITTING
- NEW 4" x 1" HOPE SDR-11 REDUCER
- DUAL CONTAINMENT END TERMINATION - THREAD BETWEEN PIPES SHALL BE SEALED.

EXISTING GRADE
4" SDR-11 DUAL WALL CONCRETE CLOSURE PIPE
2" DIA. AIR LINE (COMPRESSOR LINE)
SEE NOTE 1.1 - HOPE SDR-26 FABRICATED FITTINGS
SLOPE OF HOPE
1/2" HOPE AT TOP
18"x12" REDUCER
FLANGE CONNECTION (2) HOPE FLANGE ADAPTERS
(2) STAINLESS STEEL BACKUP RINGS WITH STAINLESS STEEL BOLTS, BOLTS & WASHERS (TYP.)
18"x12" REDUCER
PUMP AIR SUPPLY (1/2" OD)
AND EXHAUST TUBING (3/8" OD)
PUMP DISCHARGE TUBING (1" OD)
AIR EXHAUST & EXHAUST (OD EASY FITTINGS)
PUMP CHECK BOLT INLET SHORT PREMIUM PUMP - TEMPORARY
EP-65 OF OØ AP44
1/2" HOPE SDR-26 PIPE
3/4" DIA. HOLE SPACED AT 120° APART
3/4" DIA. HARD PLANK (TEMPORARY)
4" AIR EXHAUST (OD EASY FITTINGS)
1" AIR LINE