

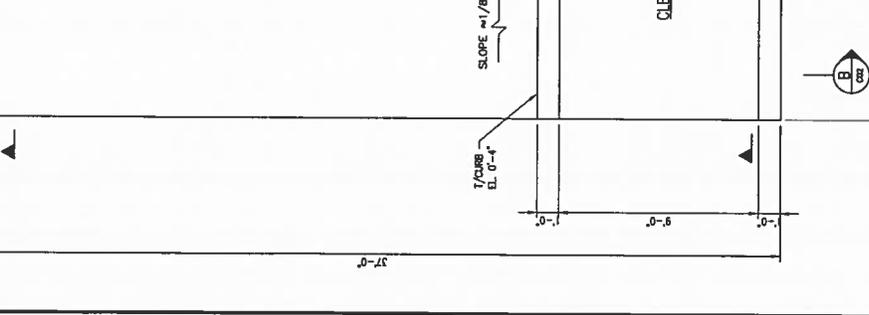
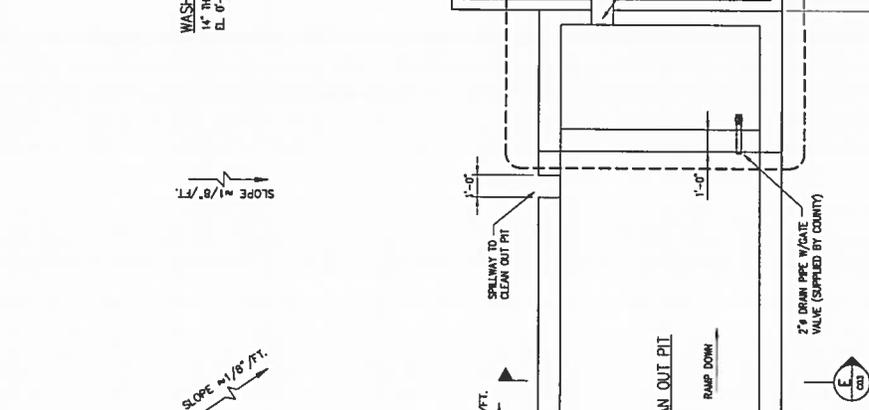
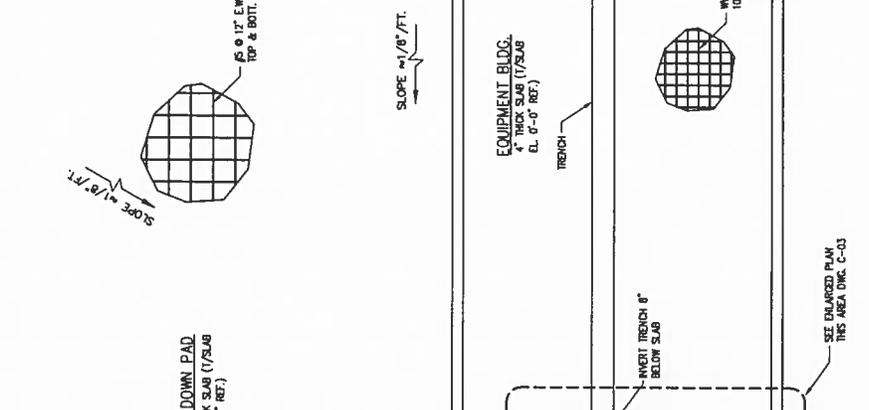
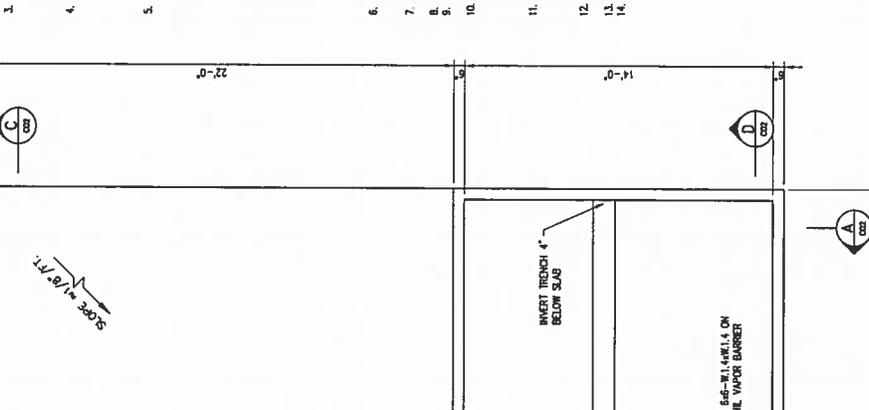
**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
EQUIPMENT WASH CONCRETE PAD LANDFILL
BID NO. 2017-C
ADDENDUM 2**

Plans Attached

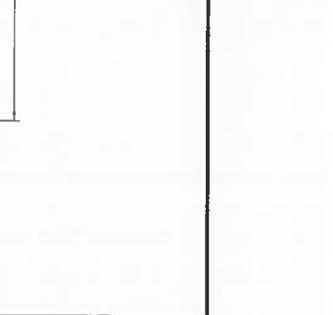
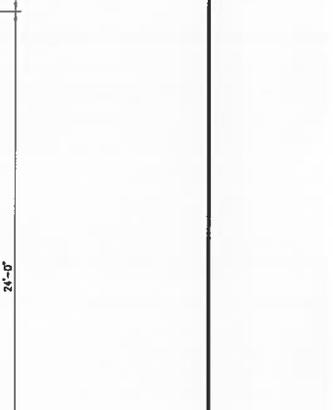
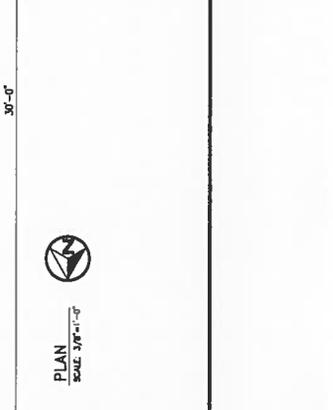
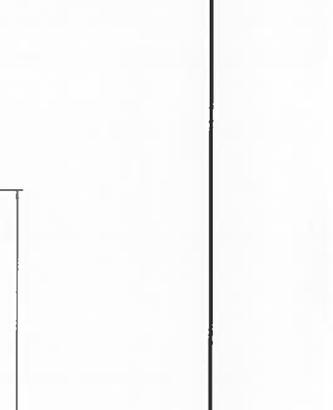
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CONCRETE NOTES:

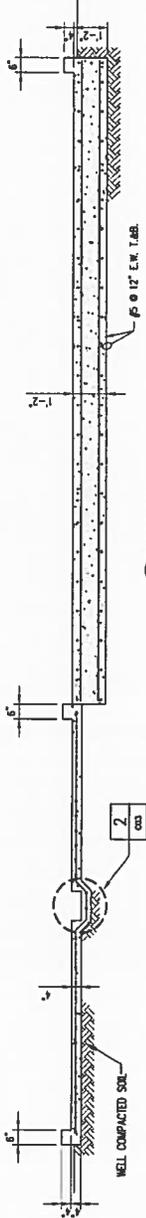
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ACI 308.1-90 AND ACI 308.2-90.
- ALL CONCRETE SHALL BE AS FOLLOWS:
 - 4,000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS.
 - MINIMUM 4" AIR ENTRAINMENT UNLESS NOTED OTHERWISE.
 - CONCRETE SHALL BE ASTM C-1191.
 - ANY ENTRAINING ADJUSTURES SHALL BE USED FOR ALL CONCRETE EXPOSED TO WEATHER.
- ALL REINFORCING SHALL BE:
 - GRADE 60 DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615.
 - WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185.
- UNLESS NOTED OTHERWISE, CONCRETE COVERAGE FOR REINFORCING BAR SHALL BE:
 - 3" BOTTOM STEEL.
 - 2" TOP STEEL.
 - 1 1/2" WALL VERTICAL STEEL.
- CONCRETE CURING: THE CONTRACTOR SHALL FURNISH A CONCRETE CURING PLAN FOR REVIEW BY BASF PROJECT MANAGER PRIOR TO THE INITIAL CONCRETE PLACEMENT. AT A MINIMUM, CURING MATERIALS AND PROCEDURES SHALL BE FURNISHED AS FOLLOWS:
 - INITIAL MOISTURE CURING AND/OR MOISTURE-RETAINING COVER CURING OF UNCOURED SURFACES SHALL COMMENCE AFTER PLACING AND FINISHING AND AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE. THE CONCRETE SURFACE SHALL BE KEPT CONTINUOUSLY MOIST FOR A PERIOD NOT LESS THAN 72 HOURS.
 - CONCRETE SURFACES SHALL BE KEPT MOIST FOR THE ENTIRE DURATION OF THE CURING PERIOD.
 - CONCRETE SURFACE WET BY COVERING WITH WATER, MOISTURE-RETAINING COVER CURING SHALL CONSIST OF HEAVY WEIGHT BURLAP OR COTTON MAT MATERIAL. CURING SHALL COMMENCE IMMEDIATELY FOLLOWING INITIAL CURING. FINAL CURING SHALL CONTINUE FOR AT LEAST 96 CUMULATIVE HOURS (NOT NECESSARILY CONTIGUOUS).
 - COLE FORMED CONCRETE SURFACES WITH FORMS IN PLACE FOR THE FULL CURING PERIOD. IF FORMS ARE REMOVED PRIOR TO THE COMPLETION OF THE FULL CURING PERIOD, THE CONTRACTOR SHALL APPLY A CURING AGENT TO THE FORMED SURFACES.
- LAP SPACES FOR REINFORCING BARS SHALL BE A MINIMUM OF 1.3 TIMES THE DEVELOPMENT LENGTH OF THE BAR UNLESS NOTED OTHERWISE ON THE DESIGN DRAWINGS. DEVELOPMENT LENGTH SHALL CONFORM TO ACI 318, CHAPTER 12.
- MECHANICAL WELDED JOINTS, IF USED, SHALL DEVELOP 125% OF BAR YIELD STRENGTH.
- ALL ELEVATIONS ARE TO TOP OF CONCRETE UNLESS NOTED OTHERWISE.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307 OR A307 ROD AND BE HOT-DIP GALVANIZED PLACEMENT AS DETAIL IN DRAWINGS.
- EXISTING CONCRETE SHALL BE REINFORCED TO NEW CONCRETE. REINFORCING AGENT APPLIED PRIOR TO NEW CONCRETE BEING PLACED. EXPOSED AGGREGATE SURFACES SHALL BE REINFORCED LEVEL, AND SMOOTH WITH A SELF-LEVELING FLOOR POLISH. REINFORCEMENT BAR INSTALLATION FOR NEW TO EXISTING CONCRETE WHERE NOTED ON DRAWINGS, INSTALL WITH HALF-HIT 150 REACTION EPXY ANCHOR SYSTEM OR APPROVED EQUIVALENT. SEE MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION DETAILS AND COORDS OF EXPOSED CONCRETE SHALL HAVE A 3/4" DIAMETER UNLESS NOTED OTHERWISE.
- ALL EMBEDDED METALS TO CONFORM TO ASTM A36.
- ALL GROUNDING CABLES SHALL BE INSTALLED PRIOR TO POUR.



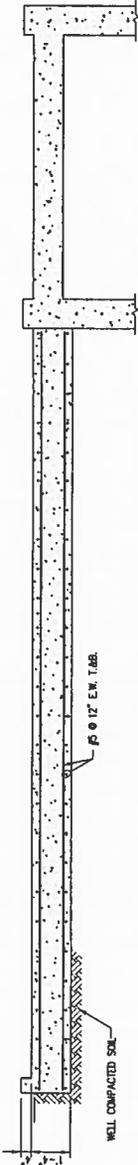
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| GCL ENGINEERING SERVICES, INC. 11111 BIRCH LAKE BLVD GAITHERSBURG, MD 20878 410 SW COMMERCIAL DR 1304M LAKE CITY, FL 32055 386-590-1242 | |
| DATE: | |
| BY: | |
| APPROVE: | |
| EQUIPMENT WASH DOWN CONCRETE PLAN | |
| PROJECT # | C01 |
| DATE | |
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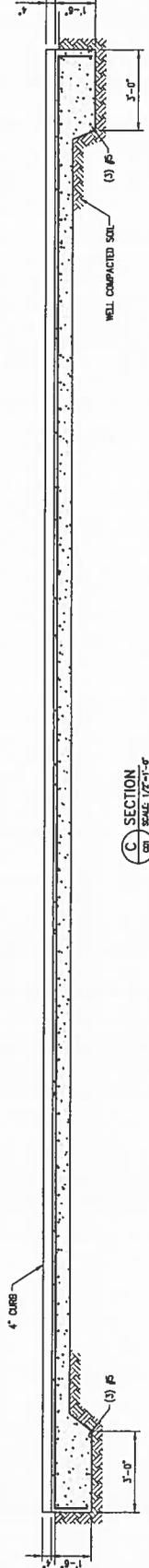
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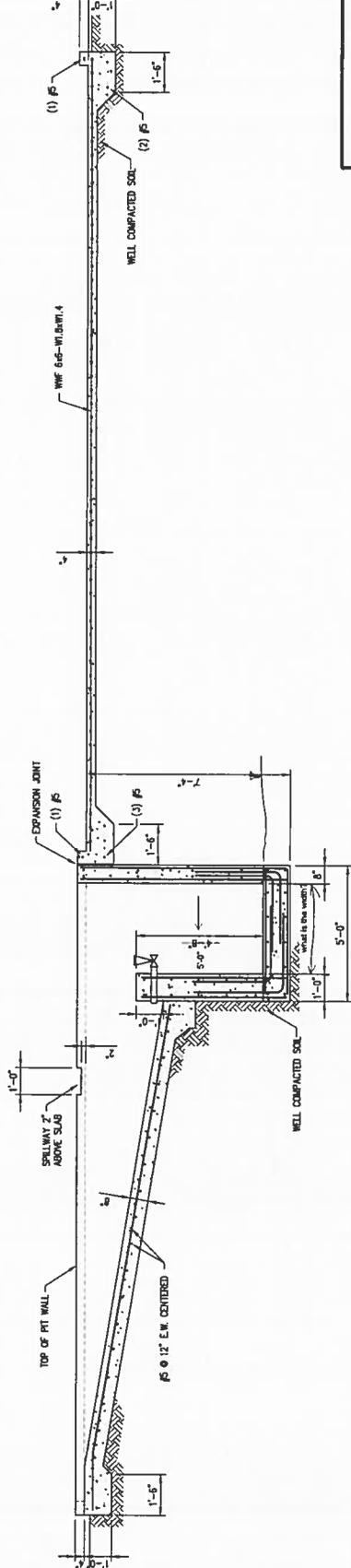
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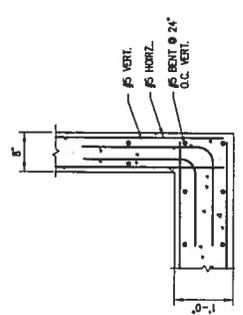
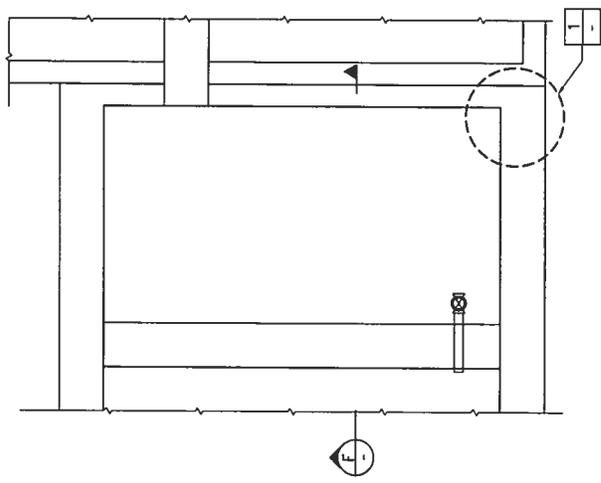
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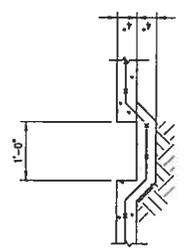
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| COUNTY LAND FILL | |
| COLEMAN, FL | |
| GILL ENGINEERING SERVICES, INC. | |
| 4011 P. BOX 8 | |
| LAKE CITY, FL 32055 | |
| 435 SW COMMERCIAL DR. 136-14 | |
| LAKE CITY, FL 32055 386-590-1242 | |
| DATE: | |
| BY: | |
| CHECKED: | |
| APPROVED: | |
| PROJECT: | EQUIPMENT WASH DOWN CONCRETE SECTIONS |
| DWG. NO.: | C02 |
| REV. #: | |

email: gill@gsengineering.com

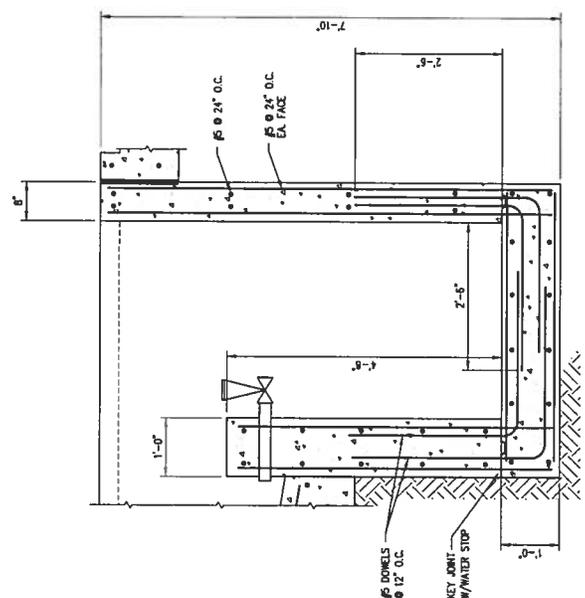
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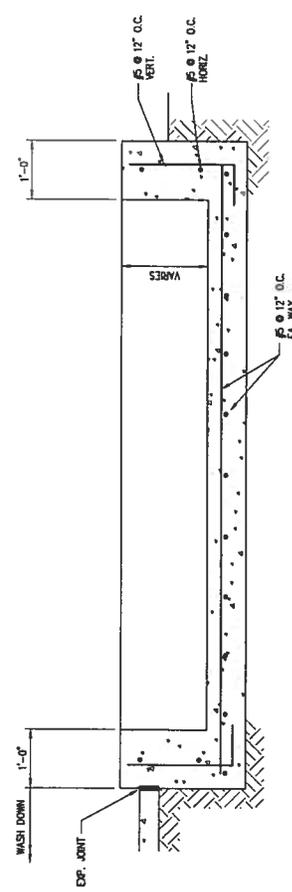
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email: gill@blsgrengineering.com

COUNTY LAND FILL
COLEMAN, FL

GILL ENGINEERING SERVICES, INC.
 AUTH. # 10684
 435 SW COMMAGE DR 130-14
 LAKE CITY, FL 32035 386-593-1242

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| DATE: | |
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PROJECT: COUNTY LAND FILL
 SHEET: C03