

STRUCTURAL NOTES

- DESIGN CRITERIA:**
- APPLICABLE CODE: 2012 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF WEST VIRGINIA.
 - FLOOR LIVE LOAD= 250 PSF
ROOF LIVE LOAD = 100 PSF
 - WIND LOAD:
BASIC WIND SPEED (3-SECOND GUST) = 120 MPH
EXPOSURE= C
RISK CATEGORY III
INTERNAL PRESSURE COEFFICIENT= +/- 0.18
 - SEISMIC LOAD:
MAPPED SPECTRAL RESPONSE ACCELERATIONS
SS = 0.144 G
S = 0.069 G
DESIGN SPECTRAL RESPONSE ACCELERATIONS
S = 0.241 G
S = 0.162 G
SITE CLASS = E
RISK CATEGORY = III
SEISMIC DESIGN CATEGORY = C
I = 1.25
 - SOIL DESIGN PARAMETERS:
EQUIVALENT LATERAL FLUID PRESSURE: 63 PCF
ALLOWABLE SOIL BEARING PRESSURE: 900 PSF

ANCHORAGE:

- ANCHORAGE OF ALL EQUIPMENT (INCLUDING, BUT NOT LIMITED TO THE OIL WATER SEPARATOR, CASCADE AERATOR, ELECTRICAL EQUIPMENT AND CATALYTIC OXIDIZER) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT MAY BE PROVIDED BY THE MANUFACTURER OR AN INDEPENDENT ENGINEER. ANCHORAGE CALCULATIONS AND DETAILS ARE TO BE SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF WEST VIRGINIA. THEY ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANCHORING THE EQUIPMENT.

FOUNDATIONS

- FOUNDATION SLABS AND SLABS ON GRADE SHALL BEAR ON A MINIMUM OF 12 INCHES OF COMPACTED GRANULAR FILL.

CONCRETE REINFORCING

- CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE: WHEN PLACED ON GROUND: 3" ALL OTHER CONCRETE SURFACES 2".
- 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
- SPLICES: #5 = 1'-7", #6 = 2'-0".

CONCRETE

- 28-DAY CAST-IN-PLACE CONCRETE STRENGTH: 4000 PSI. SEE SPECIFICATION 03 30 10, REINFORCED CONCRETE.

NOTES:

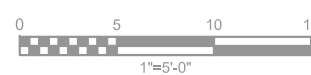
- SEE DWG MIG-C-005 FOR EQUIPMENT PAD DRAINAGE PLAN. SEE MIG-C-008 FOR PROCESS & VAPOR PIPING PLAN SHOWN IN GREYSKALE FOR REFERENCE ON THIS DRAWING. FOR EQUIPMENT, SEE VENDOR DRAWINGS.
- MH-1 SUMP AND PUMP PACKAGE INCLUDING PRECAST CONCRETE SUMP, DUPLEX SUBMERSIBLE PUMPS AND PUMP CONTROL PANEL. SEE PACKAGE LIST FOR DETAILS.
- BLOWER BASE ON CASCADE AERATOR TO USE TYPE B EQUIPMENT PAD PER DETAIL 2 ON DWG MIG-C-007.
- MH-3 CONTROL PANEL LCP-900-9-1 IS TO BE FIELD LOCATED WITHIN 3 TO 5 FEET OF THE MH-3, BUT NO CLOSER THAN 5 FEET TO THE EXISTING PIPE RACK.
- RECIRCULATION PUMP PAD 4'-6" x 1'-6".
- ALL CONTROL PANEL LOCATIONS WILL BE FIELD LOCATED AND APPROVED BY CH2M PRIOR TO INSTALLATION.

NO.	DATE	REVISION	BY	APVD
2	04/2017	REVISED SITE COORDINATES	ZM	MB
1	02/2017	90% DESIGN	ZM	MB
NO.	DATE	REVISION	BY	APVD
1	02/2017	90% DESIGN	ZM	MB
2	04/2017	REVISED SITE COORDINATES	ZM	MB
DR	CHK	APVD	J. HABERL	M. BOEKENHAUER
TS	DR	CHK	R. PITTMAN	
TS	DR	CHK	T. PAIGE/C. WANG	

UCC SCF MIDDLE ISLAND GROUNDWATER
CONTAMINANT REMEDY
SOUTH CHARLESTON FACILITY
SOUTH CHARLESTON, WEST VIRGINIA

CIVIL
ENLARGED EQUIPMENT PAD
LAYOUT

SCALE AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
DATE MARCH 2017
PROJ 660778
DWG MIG-C-006
SHEET 11 of 44



ENLARGED EQUIPMENT PAD LAYOUT
1" = 5'-0"

CONSTRUCTION

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