GENERAL NOTES

A. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWING READER'S CONVENIENCE. SEE ALSO INDIVIDUAL DRAWING NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

B. ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWINGS.

C. ABBREVIATIONS:

A.B.	- ANCHOR BOLT	F.D.	- FLOOR DRAIN	N.T.S.	- NOT TO SCALE
ADD'L	- ADDITIONAL	F.F.	- FAR FACE	O/C	- ON CENTER
A.R.	- ANCHOR ROD	FLG	- FLANGE	O.D.	- OUTSIDE DIAMETER
ALT.	- ALTERNATE	FLR	- FLOOR	OPN'G	- OPENING
ALUM.	- ALUMINUM	FND.	- FOUNDATION	PEMB	- PRE ENGINEERED MTL. BLDG.
APPROX.	- APPROXIMATE	F.S.	- FAR SIDE	PL	- PLATE
ARCH.	- ARCHITECT(URAL)	FT.	- FOOT, FEET	PLF	- POUNDS PER LINEAR FOOT
@	- AT	FTG.	- FOOTING	PSF	- POUNDS PER SQUARE FOOT
BLDG.	- BUILDING	F.V.	- FIELD VERIFY	PSI	- POUNDS PER SQUARE INCH
BM.	- BEAM	GA.	- GAGE	RAD.	- RADIUS
B.O.	- BOTTOM OF	GALV.	- GALVANIZED	REINF	- REINFORCEMENT
B.O.S	- BOTTOM OF STEEL	GR.	- GRADE	REQ'D.	- REQUIRED
BOT.	- BOTTOM	GRTG.	- GRATING	REV.	- REVISED/REVISION
BRG.	- BEARING	HDG	- HOT-DIPPED GALV.	SEC.	- SECTION
c/c	- CENTER TO CENTER	HORIZ.	- HORIZONTAL	SCHED.	- SCHEDULE
CCJ	- CRACK CONTROL JOINT	H.P.	- HIGH POINT	SHT	- SHEET
CFS	- COLD FORMED STEEL	H.R.	- HANDRAIL	S.J.I.	- STRUCTURAL JOIST INSTITUTE
CJ	- CONSTRUCTION JOINT	HT.	- HEIGHT	SIM.	- SIMILAR
CL	- CENTERLINE	I.D.	- INSIDE DIAMETER	SPA.	- SPACE
CLR.	- CLEAR	I.F.	- INSIDE FACE	SPEC.	- SPECIFICATION
CMU	- CONCRETE MASONRY UNIT	I.J.	- ISOLATED JOINT	SQ.	- SQUARE
COL.	- COLUMN	IN.	- INCH	S.S	- STAINLESS STEEL
CONC.	- CONCRETE	INV.	- INVERT	STAG.	- STAGGER
CONST.	- CONSTRUCTION	J.B.E.	- JOIST BEARING ELEV.	STD.	- STANDARD
CONT.	- CONTINUOUS	JNT.	- JOINT	STL.	- STEEL
CTR.	- CENTER	JST.	- JOIST	STR.	- STRAIGHT
DBA	- DEFORMED BAR ANCHOR	L	- ANGLE	STRUCT.	- STRUCTURAL
DET.	- DETAIL	LLH	- LONG LEG HORIZ.	S.W.	- SHEAR WALL
DEMO	- DEMOLITION	LLV	- LONG LEG VERT.	TEMP.	- TEMPERATURE
DIA.	- DIAMETER	LG.	- LONG	T/	- TOP OF
DIM.	- DIMENSION	LONGIT.	- LONGITUDINAL	T.B.E.	- TRUSS BEARING ELEV.
DN	- DOWN	L.P.	- LOW POINT	T.G.	- TRUSS GIRDER
do	- DITTO	LYR.	- LAYER	T.O.C.	- TOP OF CONCRETE
DWG.	- DRAWING	LWR.	- LOWER	T.O.S.	- TOP OF STEEL
DWL.	- DOWEL	MAT'L.	- MATERIAL	TRANSV.	- TRANSVERSE
EA.	- EACH	MAX.	- MAXIMUM	TYP.	- TYPICAL
E.F.	- EACH FACE	MDF	- MAXIMUM DESIGN FLOOD	U.N.O.	- UNLESS NOTED OTHERWISE
E.J.	- EXPANSION JOINT	MECH.	- MECHANICAL	VERT.	- VERTICAL
EL./ELEV.	- ELEVATION	MFR.	- MANUFACTURER	V.I.F.	- VERIFY IN FIELD
ELEC.	- ELECTRICAL	MID.	- MIDDLE / MIDPOINT	VS.	- VALLEY SET
EMB.	- EMBED / EMBEDMENT	MIN.	- MINIMUM	w/	- WITH
EQ.	- EQUAL	MISC.	- MISCELLANEOUS	WD.	- WOOD
E.W.	- EACH WAY	MTL.	- METAL	W/O	- WITHOUT
EXP.	- EXPANSION	NEC.	- NECESSARY	W.P.	- WORK POINT
EXTG	- EXISTING	N.F.	- NEAR FACE	WWF	- WELDED WIRE FABRIC

D. ALL EXISTING DIMENSIONS SHOWN WITH THE ± SYMBOL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.

E. DIMENSIONS MARKED WITH A "X" SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER.

F. SUBMIT SHOP DRAWINGS, PROJECT DATA AND SAMPLES AS SPECIFIED IN PROJECT SPECIFICATIONS.

DESIGN CRITERIA

A. REFERENCES:
1. BUILDING CODE: 2009 ALABAMA BUILDING CODE
2. ICC INTERNATIONAL BUILDING CODE, 2012 EDITION
- RISK CATEGORY III IN ACCORDANCE WITH TABLE 1604.5
3. ASCE/SEI 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

B. DEAD LOADS:

EQUIPMENT	= AS NOTED ON PLANS
ROOF SUPERIMPOSED DEAD LOAD	= 15 PSF
ROOF TRUSSES	= (TC = 10 PSF / BC = 15 PSF)
ROOF COLLATERAL* LOAD	= 10 PSF
AVAILABLE TO RESIST UPLIFT	= 10 PSF (CFS TRUSS OR BAR JOIST ROOFS) = SELF WEIGHT (CONC ROOFS)

* COLLATERAL LOAD INCLUDES PROVISION FOR HANGING LOADS INCLUDING SPRINKLERS, DUCTWORK, PLUMBING, CEILING AND OTHER COMPONENTS. REFER TO DRAWINGS FOR CONCENTRATED LOADING.

C. LIVE LOADS (U.N.O.):

ROOFS	= 20 PSF
ROOF TRUSSES	= (TC = 20 PSF / BC = 0 PSF)
OFFICES	= 50 PSF
CORRIDORS, LOBBY, LABORATORY	= 100 PSF
STAIRS, WALKWAYS, AND PLATFORMS	= 100 PSF
EQUIPMENT AND PROCESS FLOORS	= 200 PSF
STORAGE AREAS	= 250 PSF
CONTROL/ELECTRICAL FLOORS	= 300 PSF
VEHICLES	= AS NOTED ON PLANS

D. ROOF SNOW DESIGN DATA:

GROUND SNOW LOAD, Pg	= 10 PSF
UNIFORM ROOF DESIGN SNOW LOAD, Pf	= 10 PSF
SNOW EXPOSURE FACTOR, Ce	= 1.0
SNOW LOAD IMPORTANCE FACTOR, I	= 1.1
THERMAL FACTOR, Ct	= 1.1

E. WIND DESIGN DATA:

BASIC WIND SPEED, V	= 120 MPH (ULTIMATE)
WIND RISK CATEGORY	= III
WIND EXPOSURE	= C
DIRECTIONALITY FACTOR, Kd	= 0.85
TOPOGRAPHY	= 1.0
INTERNAL PRESSURE COEFFICIENT, GCpi	= ±0.18
BUILDING ENCLOSURE CLASSIFICATION	= ENCLOSED (TYP) = PARTIALLY ENCLOSED (GENERATOR BLDG)

FOR COMPONENTS & CLADDING PRESSURES, REFER TO CHARTS, SHEET S-003

F. SEISMIC DESIGN DATA:

SEISMIC IMPORTANCE FACTOR, I	= 1.25
Ss	= 0.257g
Sds	= 0.206g (SITE CLASS 'C') = 0.273g (SITE CLASS 'D')
S1	=0.114g
Sd1	= 0.128g (SITE CLASS 'C') = 0.179g (SITE CLASS 'D')
SITE CLASS	= 'D' (TYP) = 'C' STRUCTURES WITH FOUNDATIONS BEARING WITHIN 10FT OF ROCK
SEISMIC DESIGN CATEGORY	= 'B'
RESPONSE MODIFICATION COEFF, R	= 2.0 (ORDINARY REINFORCED MASONRY SHEAR WALLS)

FOUNDATIONS

A. SEE GEOTECHNICAL/SUBSURFACE INVESTIGATION REPORT BY OMI, INC., DATED JULY 9, 2013, JOB NO. 664. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER OR NOT ADDITIONAL GEOTECHNICAL INFORMATION IS REQUIRED AND TO PROVIDE SUCH INFORMATION AS HE DEEMS NECESSARY.

B. SOIL DESIGN CRITERIA:

1. FLOCC/SED BASIN, FILTERS, AND PIPE GALLERY

ALLOWABLE BEARING PRESSURE	= 2,000 PSF (MAT FOUNDATION) = 3,000 PSF (TURNED-DOWN SLAB)
SUBGRADE MODULUS	= 125 PCI

2. ADMIN/CHEM, BLOWER, AND GENERATOR BLDG

ALLOWABLE BEARING PRESSURE	= 2,500 PSF (WALLS) = 3,000 PSF (COLUMNS)
SUBGRADE MODULUS	= 100 PCI

3. SLUDGE THICKENER AND PUMP STATION

ALLOWABLE BEARING PRESSURE	= 1,500 PSF (TANK FOUNDATION) = 2,000 PSF (PS WALLS) = 2,500 PSF (PS COLUMNS)
SUBGRADE MODULUS	= 100 PCI

4. GAC FILTERS AND BLDG

ALLOWABLE BEARING PRESSURE	= 2,000 PSF (WALLS) = 2,500 PSF (COLUMNS)

5. ELEVATED WATER STORAGE TANK

ALLOWABLE BEARING PRESSURE	= 2,500 PSF (WALLS) = 3,000 PSF (COLUMNS) = 4,500 PSF (LOAD COMBINATIONS INCLUDING WIND)
SOIL DENSITY RESISTING UPLIFT	= 100 PCF

6. WASH WATER RECOVERY BASIN

ALLOWABLE BEARING PRESSURE	= 2,000 PSF (MAT FOUNDATION) = 2,500 PSF (TURNED-DOWN SLAB)
SUBGRADE MODULUS	= 100 PCI

7. FIN. WATER STORAGE BASIN AND PUMP STATION

ALLOWABLE BEARING PRESSURE	= 2,000 PSF
SUBGRADE MODULUS	= 100 PCI

8. SLUDGE DRYING BEDS

ALLOWABLE BEARING PRESSURE	= 1,500 PSF

9. SLUDGE FILTRATE PUMP STATION

ALLOWABLE BEARING PRESSURE	= 2,000 PSF

10. ELECTRICAL SUBSTATION

SUBGRADE MODULUS	= 100 PCI

C. GEOTECHNICAL ENGINEER SHALL BE RETAINED BY OWNER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER.

D. PRIOR TO PLACING ENGINEERED FILL, THE SITE SHALL BE STRIPPED AND PROOF ROLLED. ANY SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL. REFER TO EARTHWORK SPECIFICATION FOR ADDITIONAL INFORMATION.

E. THERE WILL BE NO BACKFILLING OPERATIONS UNTIL THE CONCRETE WALLS HAVE REACHED THEIR 28 DAY DESIGN STRENGTH, UNLESS NOTED OTHERWISE ON PLANS OR APPROVED BY THE ENGINEER.

F. DEWATERING: CONTRACTOR SHALL DESIGN, FURNISH, INSTALL, TEST, OPERATE, MONITOR, AND MAINTAIN A DEWATERING SYSTEM TO CONTROL HYDROSTATIC PRESSURE AND GROUND WATER ENTERING THE EXCAVATION.

STRUCTURAL CONCRETE

A. REFERENCES:

1. ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
2. ACI 350-06 CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES
3. ACI SP-66 ACI DETAILING MANUAL
4. CRSI MSP-2-01 MANUAL OF STANDARD PRACTICE
5. CRSI REINFORCING BAR DETAILING
6. CRSI PLACING REINFORCING BARS

B. MATERIALS:

1. STRUCTURAL CONCRETE:

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (f'c)

ALL USES, UNLESS NOTED OTHERWISE IN SPECIFICATIONS 4,000 PSI

a. REFER TO CONCRETE SPECIFICATIONS FOR USE AND MIX DESIGN REQUIREMENTS.
b. ALL CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ASTM C260 SEE SPECIFICATIONS. ALL CONCRETE AGGREGATE SHALL COMPLY WITH ASTM C33 (NORMAL WEIGHT)
c. ALL CONCRETE IN 8" WALLS OR COLUMNS WITH TWO PLANES OF REINFORCEMENT SHALL HAVE MAXIMUM 3/4" AGGREGATE. IT IS RECOMMENDED THAT THE CONTRACTOR CONSIDER SUPER-PLASTICIZED CONCRETE PER SPECIFICATIONS.

2. REINFORCEMENT:

a. REINFORCING BARS: ASTM A615, GRADE 60
b. REINFORCING DOWELS: ASTM A1035, GRADE 100 (WHERE INDICATED)
c. DEFORMED BAR ANCHORS (DBA): ASTM A706, GRADE 60
d. WELDED SMOOTH WIRE FABRIC (WWF) - ASTM A185 (SHEETS ONLY, ROLL FABRIC NOT ALLOWED)

3. ACCESSORIES:

BAR SUPPORTS CLASS 1, MAXIMUM PROTECTION (CRSI MANUAL OF STANDARD PRACTICE) FOR ALL SLABS AND BEAMS WITH SOFFITS EXPOSED TO VIEW

4. ANCHOR RODS:

SHALL BE GALVANIZED, FURNISHED WITH CHAMFERED ENDS, AND SHALL MEET STRENGTH AND DUCTILITY REQUIREMENTS EQUIVALENT ASTM A36 MATERIAL.

5. MECHANICAL (TORQUE-CONTROLLED) ANCHORS:

APPROVED SYSTEMS INCLUDE HILTI KWIK BOLT TZ (ICC ESR 1917) OR HILTI KWIK HUS-EZ (ICC ESR 3027) OR EQUAL CONSIDERING LOAD RESISTANCE. MECHANICAL ANCHORS SHALL BE APPROVED FOR USE WITH CRACKED CONCRETE PER AC 193. CURRENT ICC-ESR SHALL BE SUBMITTED. (NOTE: HILTI'S HSL-3 AND HDA ALSO MEET THESE CRITERIA). ALL PERSONNEL INSTALLING ANCHORS SHALL BE TRAINED BY THE MANUFACTURE ON PROPER INSTALLATION TECHNIQUE. TRAINING DOCUMENTATION FROM THE MANUFACTURE SHALL BE AVAILABLE ON REQUEST

STRUCTURAL CONCRETE (CONTINUED)

6. ADHESIVE ANCHORS:

APPROVED SYSTEMS INCLUDE HILTI RE 500-SD (ICC ESR 2322) OR HY 150 MAX-SD (ICC ESR 3013) OR EQUAL CONSIDERING LOAD RESISTANCE, IN-SERVICE AND INSTALLATION TEMPERATURE, AVAILABILITY OR COMPREHENSIVE INSTALLATION INSTRUCTIONS, AND CREEP. ADHESIVE ANCHORS SHALL BE APPROVED FOR USE WITH CRACKED CONCRETE PER AC 308. CURRENT ICC-ESR SHALL BE SUBMITTED. ALL PERSONNEL INSTALLING ANCHORS SHALL BE TRAINED BY THE MANUFACTURE ON PROPER INSTALLATION TECHNIQUE. TRAINING DOCUMENTATION FROM THE MANUFACTURE SHALL BE AVAILABLE ON REQUEST

7. GROUT: HIGH STRENGTH, NON-SHRINK STRUCTURAL GROUT. SEE SPECIFICATIONS.

C. REINFORCEMENT DETAILING:

1. ALL REINFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE ACI CODE REQUIREMENTS (ACI 318 OR 350 - CURRENT EDITIONS).
2. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS SHALL CONFORM TO THE ACI OR CRSI DETAILING MANUALS. ALL BAR AND MESH SUPPORTS MUST BE CLEARLY DETAILED.
3. CONCRETE COVER FOR REINFORCING SHALL BE INDICATED ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. HOWEVER, NO REINFORCING IN AREAS EXPOSED TO EARTH, WEATHER ,SEWAGE OR WATER SHALL HAVE COVER LESS THAN TWO INCHES.

SPECIFIED COVER FOR REINFORCING:

FOOTINGS	3.0" (POURED AGAINST SOIL) 2.0" (FORMED)
COLUMNS (TIES)	2.0"
WALLS	2.0"
SLABS (BOTTOM STEEL)	2.0"
SLABS (TOP STEEL)	1.5" (INTERIOR) 2.0" (EXTERIOR/EXPOSED)
BEAMS (TIES)	2.0"

4. REINFORCEMENT IN WALLS SHALL BE CONTINUOUS. HORIZONTAL BAR LAP SPLICES SHALL BE STAGGERED.
5. PROVIDE CORNER BARS AT ALL CONCRETE WALL CORNERS TO BE LAPPED WITH THE HORIZONTAL BARS. CORNER BARS ARE TO MATCH THE HORIZONTAL BARS IN SIZE, GRADE AND SPACING UNLESS OTHERWISE SHOWN.
6. HOOKS AND BENDS SHALL BE ACI STANDARD UNLESS OTHERWISE INDICATED.
7. SPLICES: CONTINUOUS REINFORCING BARS SHALL BE PROVIDED WITH TENSION LAPS AT ALL SPLICES, U.N.O., INCLUDING CORNER BARS. ALL STEEL REINFORCING LAPS SHALL BE TENSION B LAPS TYPICAL, UNLESS NOTED OTHERWISE.
8. MECHANICAL SPLICES SHALL NOT BE PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER
9. REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS (LATEST EDITIONS).
10. REINFORCING STEEL IN FOOTINGS SHALL BE ASSEMBLED IN MAT GRILLES EQUALLY SPACED AND SECURELY WIRED TOGETHER BEFORE THE CONCRETE IS POURED.
11. WALL FOOTING DOWELS ARE TO HAVE A FULL TENSION LAP SPLICE WITH THE WALL STEEL UNLESS NOTED OTHERWISE.
12. PIER REINFORCEMENT SHALL BE DOWELED TO THE FOOTING. PROVIDE DOWELS EQUAL IN SIZE, NUMBER AND GRADE TO THE PIER REINFORCEMENT UNLESS OTHERWISE INDICATED. DOWELS SHALL BE HOOKED 90 DEGREES AT THE BOTTOM LEVEL OF FOOTING REINFORCEMENT. DOWELS SHALL BE LAPPED WITH THE PIER REINFORCEMENT.
13. SPREAD BARS AROUND SMALL OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT LARGE OPENINGS WHERE NECESSARY AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT DISTRIBUTING ONE-HALF OF THIS REINFORCEMENT EACH SIDE OF THE OPENING (TENSION LAP SPLICED). HOLES LARGER THAN 12 INCHES IN ANY DIRECTION SHALL HAVE (1) #6 X 4'-0" DIAGONAL BARS IN BOTH FACES AT EACH CORNER.
14. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONCRETE.
15. NO REINFORCING STEEL SHALL BE FIELD BENT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. FIELD BENDING OF PLAIN REINFORCEMENT, IF PERMITTED, SHALL BE PERFORMED USING AN APPROVED AND APPROPRIATE SIZED PORTABLE HYDRAULIC DEVICE THAT MAKES ACI STANDARD RADIUS BENDS. NO OTHER FIELD BENDING METHOD SHALL BE PERMITTED.
16. WELDING, INCLUDING TACK WELDING, FOR REINFORCING STEEL IS PROHIBITED. WELDING OF REINFORCING STEEL AND HIGH STRENGTH BOLTS (A325, A490) WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF THE ENGINEER.
17. ALL OPENINGS THROUGH WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS MUST BE LOCATED BY THE CONTRACTOR AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS MUST BE REVIEWED BY THE ENGINEER BEFORE THE CONCRETE IS POURED.
18. MODIFICATION AND REPAIR TO EXISTING CONCRETE: (A) SEE CONCRETE SPECIFICATIONS FOR COMPLETE EXPLANATION. (B) CONNECTION METHODS - METHOD A - BONDING TO SATURATED SURFACE METHOD B - BONDING BY USING BONDING AGENT METHOD C - DOWELS USING EPOXY BONDING AGENT

D. FOOTINGS:

1. PROVIDE SHEAR KEYS IN THE TOPS OF WALL FOOTINGS SUPPORTING CONCRETE WALLS AND IN THE TOPS OF COLUMN FOOTINGS AT CONCRETE WALLS.
2. CENTER ALL FOOTINGS ON WALL, PIER OR COLUMN ABOVE UNLESS OTHERWISE INDICATED.

E. FORMWORK:

1. SEE SPECIFICATIONS.
2. KEYS INDICATED ARE TO BE 2X4 NOMINAL CONTINUOUS, U.N.O.
3. CAMBER: PROVIDE CAMBER TO COMPENSATE FOR DISPLACEMENT OF FORMS (SEE ALSO SPECS.) AND TO PROVIDE AS-CAST MEMBER CAMBER AS NOTED ON DRAWINGS.
4. RUSTICATION STRIPS, CHAMFERS, DRIPS, MISC. EMBEDS, ETC. SEE DRAWINGS AND/OR ARCHITECTURAL DRAWINGS.
5. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS ETC. UNLESS OTHERWISE NOTED.
6. OPENINGS FOR MEP TRADES ARE TO BE INCLUDED IN THE BID. ALL HOLES FOR OTHER TRADES WHICH MUST BE CUT OR FORMED AND WHICH ARE NOT SHOWN ON THE STRUCTURAL DESIGN(S) DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER DESIGNER FOR REVIEW AND APPROVAL. ANY STRENGTHENING OR ADDITIONAL REINFORCEMENT REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

F. CONCRETE FINISHES: SEE SPECIFICATIONS.

1. FORMED SURFACES:
   a. EXPOSED TO VIEW: APPLY SIKAGARD 550W OVER GROUT-CLEANED FINISH SURFACES (NON TRAFFIC) PER MFR SPEC'S.
   b. COVERED OR AS NOTED ON PLANS: AS-CAST
2. FLATWORK SURFACES:
   a. EXPOSED TO VIEW: TROWELED
   b. TILED OR CARPETED: TROWELED
   c. STAIRS OR RAMPS: BROOMED
   d. SIDEWALKS, DRIVEWAYS: BROOMED

G. CURING AND PROTECTION: SEE SPECIFICATIONS.

H. SEE THE MECHANICAL, ELECTRICAL AND SUPPLIERS DRAWINGS AND THE SPECIFICATIONS FOR THE LOCATIONS OF SPECIAL ANCHORS, CHAMFERS, SLEEVES, PIPES, CONDUITS AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

J. EMBEDDED PIPES OR CONDUIT. MAXIMUM DIAMETER ONE THIRD x SLAB OR WALL THICKNESS, SPACED MINIMUM OF 3 TIMES DIAMETER ON CENTER.

K. SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

L. PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS WHERE INDICATED AND IN ALL WATER CONTAINING AND BELOW GRADE STRUCTURES. REFER TO TYPICAL DETAILS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT LAYOUT PLAN FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION. ALL LOCATIONS MAY NOT BE SHOWN.

TETRA TECH
www.tetratech.com
101 QUALITY CIRCLE, SUITE 140
HUNTSVILLE, ALABAMA 35806
PHONE: (256) 424-4077 FAX: (256) 424-4097

BID SET

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 30163-E CHRISTOPHER D. CLINTON 10/3/13

MARK	DATE	DESCRIPTION	BY

HUNTSVILLE UTILITIES
SOUTHEAST WATER TREATMENT PLANT

STRUCTURAL GENERAL NOTES

Project No.:	200-11740-10003
Designed By:	JLB
Drawn By:	BRF
Checked By:	CDC

S-0001

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Bar Measures 1 inch

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