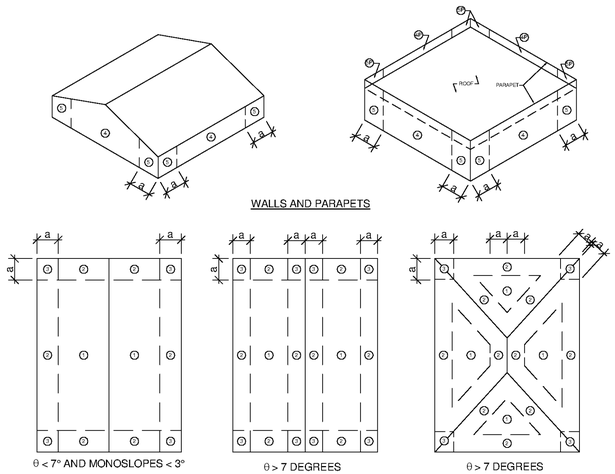
LOCATION OF COMPONENT AND CLADDING WIND PRESSURE ZONES



WIND PRESSURE NOTES :

1. * EFFECTIVE AREA: SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN 1/3 THE SPAN LENGTH
2. NEGATIVE VALUE DENOTES PRESSURE ACTING AWAY FROM THE SURFACE
3. UNFACTORED(NOMINAL) COMPONENT AND CLADDING PRESSURES MAY BE OBTAINED BY MULTIPLYING THE VALUES IN THE TABLE BY 0.60.
4. EDGE DISTANCE 'a':
   - a = 6'-6" (OPERATIONS/CHEMICAL BLDG AND PIPE GALLERY)
   - a = 5'-0" (GAC/BAC BLDG AND PIPE GALLERY)
   - a = 7'-0" (FINISH WATER PUMP STATION)
   - a = 3'-0" (THICKENED SLUDGE PUMP STATION)
   - a = 4'-6" (GENERATOR BLDG)

AREA 2 - OPERATIONS/CHEMICAL BLDG FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-34	-32	-31
NEGATIVE ZONE 2	-59	-48	-43
NEGATIVE ZONE 3	-59	-48	-43
POSITIVE ZONE 1	22	17	16
POSITIVE ZONES 2 & 3	22	17	16
OVERHANG ZONE 1 & 2	-69	-69	-69
OVERHANG ZONE 3	-69	-69	-69

WALLS

WALL ZONE	EFFECTIVE AREA*		
		100 SF	500 SF
NEGATIVE ZONE 4	-40	-35	-31
NEGATIVE ZONE 5	-50	-39	-31
POSITIVE ZONE 4 & 5	37	32	28

AREA 2 - BLOWER ROOM AND PIPE GALLERY FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-34	-32	-31
NEGATIVE ZONE 2	-56	-43	-37
NEGATIVE ZONE 3	-85	-51	-37
POSITIVE ZONE 1	16	16	16
POSITIVE ZONES 2 & 3	16	16	16
OVERHANG ZONE 1 & 2	-	-	-
OVERHANG ZONE 3	-	-	-

WALLS

WALL ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-33	-29	-26
NEGATIVE ZONE 5	-41	-32	-26
POSITIVE ZONE 4 & 5	31	26	23

PARAPETS

PARAPET ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4P	-77	-52	-49
NEGATIVE ZONE 5P	-77	-52	-49
POSITIVE ZONE 4P & 5P	61	48	39

AREA 3 - GAC/BAC BUILDING AND PIPE GALLERY FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-37	-35	-34
NEGATIVE ZONE 2	-62	-47	-40
NEGATIVE ZONE 3	-62	-47	-40
POSITIVE ZONE 1	22	18	16
POSITIVE ZONES 2 & 3	34	31	29
OVERHANG ZONE 1 & 2	-71	-71	-71
OVERHANG ZONE 3	-71	-71	-71

WALLS

WALL ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-41	-36	-32
NEGATIVE ZONE 5	-51	-40	-32
POSITIVE ZONE 4 & 5	38	33	29

PARAPETS

PARAPET ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4P	-87	-60	-56
NEGATIVE ZONE 5P	-87	-60	-56
POSITIVE ZONE 4P & 5P	70	55	44

AREA 4 - FINISH WATER PUMP STATION FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-32	-30	-29
NEGATIVE ZONE 2	-55	-45	-41
NEGATIVE ZONE 3	-81	-67	-64
POSITIVE ZONE 1	20	16	16
POSITIVE ZONES 2 & 3	20	16	16
OVERHANG ZONE 1 & 2	-64	-64	-64
OVERHANG ZONE 3	-108	-84	-73

WALLS

WALL ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-38	-33	-29
NEGATIVE ZONE 5	-46	-36	-29
POSITIVE ZONE 4 & 5	35	30	26

AREA 5 - THICKENED SLUDGE PUMP STATION FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-29	-27	-27
NEGATIVE ZONE 2	-50	-41	-37
NEGATIVE ZONE 3	-50	-41	-37
POSITIVE ZONE 1	19	16	16
POSITIVE ZONES 2 & 3	19	16	16
OVERHANG ZONE 1 & 2	-59	-59	-59
OVERHANG ZONE 3	-59	-59	-59

WALLS

WALL ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-34	-30	-27
NEGATIVE ZONE 5	-42	-33	-27
POSITIVE ZONE 4 & 5	32	27	24

AREA 8 - GENERATOR BLDG FACTORED COMPONENTS & CLADDING WIND PRESSURES

ROOF

ROOF ZONE	EFFECTIVE AREA*		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-45	-42	-42
NEGATIVE ZONE 2	-69	-58	-54
NEGATIVE ZONE 3	-69	-58	-54
POSITIVE ZONE 1	32	28	26
POSITIVE ZONES 2 & 3	32	28	26
OVERHANG ZONE 1 & 2	-67	-67	-67
OVERHANG ZONE 3	-67	-67	-67

WALLS

WALL ZONE	EFFECTIVE AREA*		
	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-51	-45	-42
NEGATIVE ZONE 5	-60	-49	-42
POSITIVE ZONE 4 & 5	48	42	39

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. 32153-E CHRISTOPHER D. COLEMAN
10/5/17

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-0003

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Bar Measures 1 inch

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