

ELEVATED SHEET FOR PLUMBING

Date: 28-11-08
 JOB: POWER PLANT
 GC:

PLUMBING:

| LEVEL | 6" Pipe | 4" Pipe | 3" Pipe | 2" Pipe | 2 1/2" Pipe | 1" Pipe | 1/2" Pipe | 3/4" Pipe |
|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) |
| SERVICE BUILDING PLUMBING | 125'-6 1/2" | 159'-0 1/2" | 135'-6" | 243'-4" | 1'-4 1/2" | 31'-10 1/2" | 92'-0 1/2" | 13'-6" |

| LEVEL | 4" Pipe | 2" Pipe | 1 1/2" Pipe | 1" Pipe |
|--------------------------------|------------------------|------------------------|------------------------|------------------------|
| | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) |
| SERVICE BUILDING FIRE FIGHTING | 441' | 641' | 415' | 29'-1/2" |

| LEVEL | 36" Pipe | 30" Pipe | 24" Pipe | 18" Pipe | 15" Pipe | 14" Pipe | 12" Pipe | 10" Pipe | 8" Pipe | 3" Pipe | 2" Pipe | 1" Pipe |
|--------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) | Total Length (ft-inch) |
| SITE UTILITY | 66' - 0 1/32" | 33' - 0" | 116' - 3" | 331' - 11" | 630' - 8 1/4" | 108' - 4 15/32" | 1331' - 11 3/4" | 657' - 4 1/4" | 457' - 7" | 1636' - 2 15/16" | 2635'-10" | 246' - 4 7/16" |

Piping Schedule

| DCW | | |
|--------------------|----------------|-----------|
| Size | Length | Count |
| 1/2"ø | 56' - 10" | 18 |
| 1"ø | 29' - 2 1/2" | 11 |
| 1 1/2"ø | 111' - 10 1/2" | 16 |
| 2"ø | 40' - 6" | 8 |
| Grand total | | 53 |

DHW

| Size | Length | Count |
|--------------------|--------------|-----------|
| 3/4"ø | 13' - 6" | 3 |
| 1/2"ø | 35' - 2 1/2" | 9 |
| 1"ø | 2' - 8 1/2" | 2 |
| Grand total | | 14 |

OILY WASTE

| Size | Length | Count |
|--------------------|-------------|-----------|
| 3"ø | 3' - 5 1/2" | 3 |
| 4"ø | 147' - 8" | 32 |
| 6"ø | 125' - 7" | 24 |
| Grand total | | 59 |

RAW WATER

| Size | Length | Count |
|--------------------|--------------|-----------|
| 2"ø | 53' - 3 1/2" | 14 |
| Grand total | | 96 |

SANITARY

| Size | Length | Count |
|--------------------|--------------|-----------|
| 1 1/2"ø | 5' - 4 1/2" | 7 |
| 2"ø | 74' - 0" | 36 |
| 3"ø | 6' - 6 1/2" | 4 |
| 4"ø | 11' - 5 1/2" | 7 |
| Grand total | | 54 |

VENT

| Size | Length | Count |
|--------------------|-------------|-----------|
| 1 1/2"ø | 90' - 7" | 14 |
| 2"ø | 75' - 7" | 18 |
| 2 1/2"ø | 1' - 4 1/2" | 1 |
| 3"ø | 125' - 6" | 15 |
| Grand total | | 48 |

Fitting Schedule

| DCW | | |
|--------------------|-------------------------|-----------|
| Type | Size | Count |
| Pipe Elbow | 1 1/2"ø-1 1/2"ø | 9 |
| Pipe Elbow | 1"ø-1"ø | 4 |
| Pipe Elbow | 1/2"ø-1/2"ø | 12 |
| Pipe Elbow | 2"ø-2"ø | 5 |
| Grand total | | 30 |
| Pipe Tee | 1 1/2"ø-1 1/2"ø-1 1/2"ø | 5 |
| Pipe Tee | 1"ø-1"ø-1"ø | 2 |
| Pipe Tee | 1/2"ø-1/2"ø-1/2"ø | 1 |
| Pipe Tee | 2"ø-2"ø-2"ø | 2 |
| Grand total | | 10 |
| Pipe Transition | 1 1/2"ø-1"ø | 3 |
| Pipe Transition | 1 1/2"ø-1/2"ø | 2 |
| Pipe Transition | 1"ø-1/2"ø | 1 |
| Pipe Transition | 2"ø-1 1/2"ø | 2 |
| Pipe Transition | 2"ø-1"ø | 1 |
| Pipe Transition | 2"ø-1/2"ø | 1 |
| Grand total | | 10 |

DHW

| Type | Size | Count |
|--------------------|-------------------|----------|
| Pipe Elbow | 1"ø-1"ø | 1 |
| Pipe Elbow | 1/2"ø-1/2"ø | 7 |
| Pipe Elbow | 3/4"ø-3/4"ø | 1 |
| Grand total | | 9 |
| Pipe Tee | 1"ø-1"ø-1"ø | 1 |
| Pipe Tee | 3/4"ø-3/4"ø-3/4"ø | 1 |
| Grand total | | 2 |
| Pipe Transition | 1"ø-3/4"ø | 2 |
| Pipe Transition | 3/4"ø-1/2"ø | 3 |
| Grand total | | 5 |

OILY WASTE

| Type | Size | Count |
|----------------------------------------|-------------|-----------|
| Pipe Elbow | 3"ø-3"ø | 3 |
| Pipe Elbow | 4"ø-4"ø | 5 |
| Pipe Elbow | 6"ø-6"ø | 7 |
| Grand total | | 15 |
| Combination Wye with 8th Bend | 4"ø-4"ø-4"ø | 3 |
| Combination Wye with 8th Bend | 6"ø-6"ø-6"ø | 2 |
| Grand total | | 5 |
| Reducing Combination Wye with 8th Bend | 6"ø-6"ø-3"ø | 2 |
| Reducing Combination Wye with 8th Bend | 6"ø-6"ø-4"ø | 1 |
| Grand total | | 3 |
| Pipe Plain Wye | 4"ø-4"ø-4"ø | 4 |
| Pipe Plain Wye | 6"ø-6"ø-6"ø | 3 |
| Grand total | | 7 |
| P-Trap | 4"ø-4"ø | 7 |
| P-Trap | 6"ø-6"ø | 1 |
| Grand total | | 8 |
| Pipe Reducing Wye | 4"ø-4"ø-3"ø | 2 |
| Pipe Reducing Wye | 6"ø-6"ø-4"ø | 2 |
| Grand total | | 4 |
| Pipe Transition | 4"ø-4"ø | 1 |
| Pipe Transition | 6"ø-4"ø | 1 |
| Grand total | | 2 |
| Pipe Plug | 4"ø | 2 |
| Pipe Plug | 6"ø | 4 |
| Pipe Plug | 8"ø | 2 |
| Grand total | | 8 |

RAW WATER

| Type | Size | Count |
|------------|-------------|-------|
| Pipe Elbow | 2"ø-2"ø | 4 |
| Pipe Tee | 2"ø-2"ø-2"ø | 2 |

SANITARY

| Type | Size | Count |
|----------------------------------------|---------------------|-----------|
| Pipe Transition | 4"ø-2"ø | 3 |
| Pipe Plain Wye | 2"ø-2"ø-2"ø | 1 |
| Double Combination Wye with 8th Bend | 4"ø-4"ø-4"ø-4"ø | 1 |
| Reducing Combination Wye with 8th Bend | 4"ø-4"ø-2"ø | 4 |
| Reducing Combination Wye with 8th Bend | 4"ø-4"ø-3"ø | 2 |
| Grand total | | 6 |
| Reducing Short Tee | 2"ø-1 1/2"ø-1 1/2"ø | 1 |
| Reducing Short Tee | 2"ø-2"ø-1 1/2"ø | 6 |
| Reducing Short Tee | 2"ø-2"ø-2"ø | 1 |
| Reducing Short Tee | 3"ø-3"ø-2"ø | 2 |
| Grand total | | 10 |
| Pipe Elbow | 1 1/2"ø-1 1/2"ø | 1 |
| Pipe Elbow | 2"ø-2"ø | 12 |
| Grand total | | 13 |
| Combination Wye with 8th Bend | 2"ø-2"ø-2"ø | 2 |
| P-Trap | 1 1/2"ø-1 1/2"ø | 3 |
| P-Trap | 2"ø-2"ø | 5 |
| Grand total | | 8 |

Plumbing Equipment Schedule

| Type | Size | Count |
|--------------------|---------|-----------|
| Floor Drain | 2"ø-2"ø | 3 |
| Floor Drain | 6"ø-6"ø | 1 |
| Floor Drain | 4"ø-4"ø | 7 |
| Grand total | | 11 |

Plumbing Fixture Schedule

| Type | Model | Count | Manufacturer |
|-----------------------|----------|-------|---------------|
| Electric Water Cooler | WCBAFS-Q | 1 | HALSEY-TAYLOR |
| Water Heater | DEL-6 | 1 | A.O.SMITH |

Valve Schedule

| Type | Count |
|------------------------|-------|
| Ball Valve - 2-6 Inch | 6 |
| DCW Backflow Preventer | 1 |
| Pressure Gauge | 4 |
| Globe Valve | 1 |
| Pressure Regulator | 1 |

| | | |
|-------------|-----|---|
| Pipe Endcap | 2"ø | 3 |
|-------------|-----|---|

| VENT | | |
|--------------------|-------------------------|-----------|
| Type | Size | Count |
| Pipe Elbow | 1 1/2"ø-1 1/2"ø | 8 |
| Pipe Elbow | 2"ø-2"ø | 9 |
| Pipe Elbow | 3"ø-3"ø | 8 |
| Grand total | | 25 |
| Pipe Transition | 2 1/2"ø-2"ø | 2 |
| Pipe Transition | 3"ø-2 1/2"ø | 1 |
| Pipe Transition | 3"ø-2"ø | 1 |
| Grand total | | 4 |
| Reducing Tee | 2"ø-1 1/2"ø-1 1/2"ø | 1 |
| Reducing Tee | 2"ø-2"ø-1 1/2"ø | 2 |
| Grand total | | 3 |
| Pipe Tee | 1 1/2"ø-1 1/2"ø-1 1/2"ø | 1 |
| Pipe Tee | 2"ø-2"ø-2"ø | 2 |
| Grand total | | 3 |
| Three Way Elbow | 2 1/2"ø-2 1/2"ø-2 1/2"ø | 1 |
| Three Way Elbow | 3"ø-3"ø-3"ø | 3 |
| Grand total | | 4 |

SERVICE BUILDING FIRE FIGHTING

Piping Schedule

| FIRE WATER | | |
|--------------------|-------------|-----------|
| Size | Length | Count |
| 1"ø | 2' - 5 1/2" | 14 |
| 1 1/2"ø | 34' - 7" | 16 |
| 2"ø | 53' - 5" | 8 |
| 4"ø | 36' - 9" | 9 |
| Grand total | | 47 |

Fitting Schedule

| FIRE WATER | | |
|--------------------|-----------------|-----------|
| Type | Size | Count |
| Pipe Elbow | 1 1/2"ø-1 1/2"ø | 13 |
| Pipe Elbow | 2"ø-2"ø | 1 |
| Pipe Elbow | 4"ø-4"ø | 4 |
| Grand total | | 18 |
| Pipe Tee | 2"ø-2"ø | 8 |
| Pipe Tee | 4"ø-4"ø | 5 |
| Grand total | | 13 |
| Pipe Transition | 4"ø-3"ø | 4 |
| Pipe Transition | 4"ø-1 1/2"ø | 3 |
| Pipe Transition | 4"ø-2"ø | 3 |
| Pipe Transition | 2"ø-1 1/2"ø | 10 |
| Pipe Transition | 1 1/2"ø-1"ø | 14 |
| Grand total | | 34 |
| Flange | 4"ø-4"ø | 1 |

Sprinkler Head Schedule

| Type | Size | Count |
|---------|---------|-------|
| PENDENT | 1"ø-1"ø | 14 |

SITE UTILITY

Piping Schedule

| AQUEOUS AMMONIA | | |
|------------------------|---------------|-----------|
| Size | Length | Count |
| 1"∅ | 246' - 4 1/2" | 16 |
| Grand total | | 16 |

| CT BLOWDOWN | | |
|--------------------|---------------|-----------|
| Size | Length | Count |
| 3"∅ | 624' - 6 1/2" | 25 |
| Grand total | | 25 |

| CT MAKE UP | | |
|--------------------|-----------|-----------|
| Size | Length | Count |
| 3"∅ | 268' - 7" | 14 |
| Grand total | | 14 |

| DEMINERALIZED WATER | | |
|----------------------------|----------------|-----------|
| Size | Length | Count |
| 2"∅ | 432' - 11" | 25 |
| 3"∅ | 535' - 11 1/2" | 37 |
| 4"∅ | 475' - 8 1/2" | 34 |
| Grand total | | 96 |

| FIRE WATER | | |
|--------------------|---------------|-----------|
| Size | Length | Count |
| 4"∅ | 174' - 2" | 11 |
| 6"∅ | 480' - 11" | 27 |
| 8"∅ | 46' - 3" | 3 |
| 12"∅ | 1000' - 6" | 28 |
| 14"∅ | 108' - 4 1/2" | 4 |
| Grand total | | 73 |

| FUEL GAS | | |
|-----------------|--------|-------|
| Size | Length | Count |

Fitting Schedule

| AQUEOUS AMMONIA | | |
|------------------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 1"∅-1"∅ | 13 |
| Pipe Tee | 1"∅-1"∅ | 1 |
| Flange | 1"∅-1"∅ | 3 |

| CT BLOWDOWN | | |
|--------------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 3"∅-3"∅ | 23 |
| Flange | 3"∅-3"∅ | 4 |

| CT MAKE UP | | |
|-------------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 3"∅-3"∅ | 13 |
| Flange | 3"∅-3"∅ | 2 |

| DEMINERALIZED WATER | | |
|----------------------------|---------|-----------|
| Type | Size | Count |
| Pipe Elbow | 2"∅-2"∅ | 22 |
| Pipe Elbow | 3"∅-3"∅ | 27 |
| Pipe Elbow | 4"∅-4"∅ | 26 |
| | | 75 |
| Pipe Tee | 2"∅-2"∅ | 1 |
| Pipe Tee | 3"∅-3"∅ | 2 |
| Pipe Tee | 4"∅-4"∅ | 3 |
| | | 6 |
| Flange | 2"∅-2"∅ | 3 |
| Flange | 3"∅-3"∅ | 10 |
| Flange | 4"∅-4"∅ | 3 |
| | | 16 |
| Pipe Transition | 4"∅-3"∅ | 4 |

| FIRE WATER | | |
|-------------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 4"∅-4"∅ | 8 |
| Pipe Elbow | 6"∅-6"∅ | 14 |
| Pipe Elbow | 8"∅-8"∅ | 1 |

| | | |
|--------------------|--------------|-----------|
| 2"∅ | 64' - 9" | 6 |
| 4"∅ | 22' - 1 1/2" | 4 |
| 6"∅ | 54' - 7" | 7 |
| 12"∅ | 311' - 1" | 8 |
| Grand total | | 25 |

| GAS PIPE | | |
|--------------------|---------------|----------|
| Size | Length | Count |
| 10"∅ | 657' - 4 1/2" | 6 |
| Grand total | | 6 |

| INSTRUMENT AIR | | |
|-----------------------|------------|-----------|
| Size | Length | Count |
| 2"∅ | 1125' - 8" | 87 |
| Grand total | | 87 |

| OILY DRAIN | | |
|--------------------|----------|----------|
| Size | Length | Count |
| 4"∅ | 54' - 3" | 7 |
| Grand total | | 7 |

| RAW WATER | | |
|--------------------|---------------|-----------|
| Size | Length | Count |
| 2"∅ | 37' - 9 1/2" | 3 |
| 3"∅ | 107' - 6 1/2" | 8 |
| 4"∅ | 87' - 10 1/2" | 8 |
| 8"∅ | 411' - 4" | 9 |
| Grand total | | 28 |

| SERVICE WATER | | |
|----------------------|--------------|-----------|
| Size | Length | Count |
| 2"∅ | 521' - 0" | 44 |
| 3"∅ | 99' - 7 1/2" | 5 |
| Grand total | | 49 |

| TREATED WATER | | |
|----------------------|-----------|-----------|
| Size | Length | Count |
| 2"∅ | 453' - 9" | 18 |
| Grand total | | 18 |

| WASTE WATER | | |
|--------------------|---------------|-------|
| Size | Length | Count |
| 4"∅ | 441' - 2 1/2" | 10 |

| | | |
|-----------------|-----------|-----------|
| Pipe Elbow | 12"∅-12"∅ | 14 |
| Pipe Elbow | 14"∅-14"∅ | 3 |
| | | 40 |
| Pipe Transition | 6"∅-4"∅ | 2 |
| Pipe Transition | 12"∅-6"∅ | 8 |
| Pipe Transition | 12"∅-8"∅ | 1 |
| | | 11 |
| Flange | 4"∅-4"∅ | 2 |
| Flange | 6"∅-6"∅ | 8 |
| Flange | 8"∅-8"∅ | 1 |
| Flange | 12"∅-12"∅ | 1 |
| Flange | 14"∅-14"∅ | 2 |
| | | 14 |
| Pipe Tee | 12"∅-12"∅ | 10 |

| FUEL GAS | | |
|--------------------|----------------|-----------|
| Type | Size | Count |
| Pipe Elbow | 2"∅-2"∅ | 9 |
| Pipe Elbow | 4"∅-4"∅ | 2 |
| Pipe Elbow | 6"∅-6"∅ | 5 |
| Pipe Elbow | 12"∅-12"∅ | 9 |
| Grand total | | 25 |
| Pipe Transition | 12"∅-2"∅ | 1 |
| Pipe Transition | 12"∅-4"∅ | 2 |
| Pipe Transition | 12"∅-6"∅ | 2 |
| Grand total | | 5 |
| Pipe Tee | 12"∅-12"∅-12"∅ | 9 |
| Flange | 2"∅-2"∅ | 9 |
| Flange | 4"∅-4"∅ | 2 |
| Flange | 6"∅-6"∅ | 2 |

| GAS PIPE | | |
|-----------------|----------|-------|
| Type | Size | Count |
| Pipe Elbow | 10"∅10"∅ | 5 |
| Flange | 10"∅10"∅ | 1 |

| INSTRUMENT AIR | | |
|-----------------------|-------------|-------|
| Type | Size | Count |
| Pipe Elbow | 2"∅-2"∅ | 51 |
| Pipe Tee | 2"∅-2"∅-2"∅ | 13 |
| Flange | 2"∅-2"∅ | 14 |

| OILY DRAIN | | |
|-------------------|------|-------|
| Type | Size | Count |

| | | |
|-------------|--|----|
| Grand total | | 10 |
|-------------|--|----|

| STORM SEWER PIPE | | |
|------------------|---------------|-------|
| Size | Length | Count |
| 12"Ø | 20' - 5" | 1 |
| 15"Ø | 630' - 8 1/2" | 3 |
| 18"Ø | 331' - 11" | 2 |
| 24"Ø | 116' - 3" | 1 |
| 30"Ø | 33' - 0" | 1 |
| 36"Ø | 66' - 0" | 1 |
| Grand total | | 9 |

| | | |
|------------|---------|---|
| Pipe Elbow | 4"Ø-4"Ø | 5 |
|------------|---------|---|

| RAW WATER | | |
|------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 2"Ø-2"Ø | 2 |
| Pipe Elbow | 3"Ø-3"Ø | 7 |
| Pipe Elbow | 4"Ø-4"Ø | 7 |
| Pipe Elbow | 8"Ø-8"Ø | 8 |
| | | 24 |
| Flange | 2"Ø-2"Ø | 1 |
| Flange | 3"Ø-3"Ø | 2 |
| Flange | 4"Ø-4"Ø | 2 |
| Flange | 8"Ø-8"Ø | 2 |
| | | 7 |

| SERVICE WATER | | |
|---------------|-------------|-------|
| Type | Size | Count |
| Pipe Elbow | 2"Ø-2"Ø | 30 |
| Pipe Elbow | 3"Ø-3"Ø | 4 |
| | | 34 |
| Flange | 2"Ø-2"Ø | 7 |
| Flange | 3"Ø-3"Ø | 2 |
| | | 9 |
| Pipe Tee | 2"Ø-2"Ø-2"Ø | 5 |

| TREATED WATER | | |
|---------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 2"Ø-2"Ø | 17 |
| Flange | 2"Ø-2"Ø | 2 |

| WASTE WATER | | |
|-------------|---------|-------|
| Type | Size | Count |
| Pipe Elbow | 4"Ø-4"Ø | 7 |