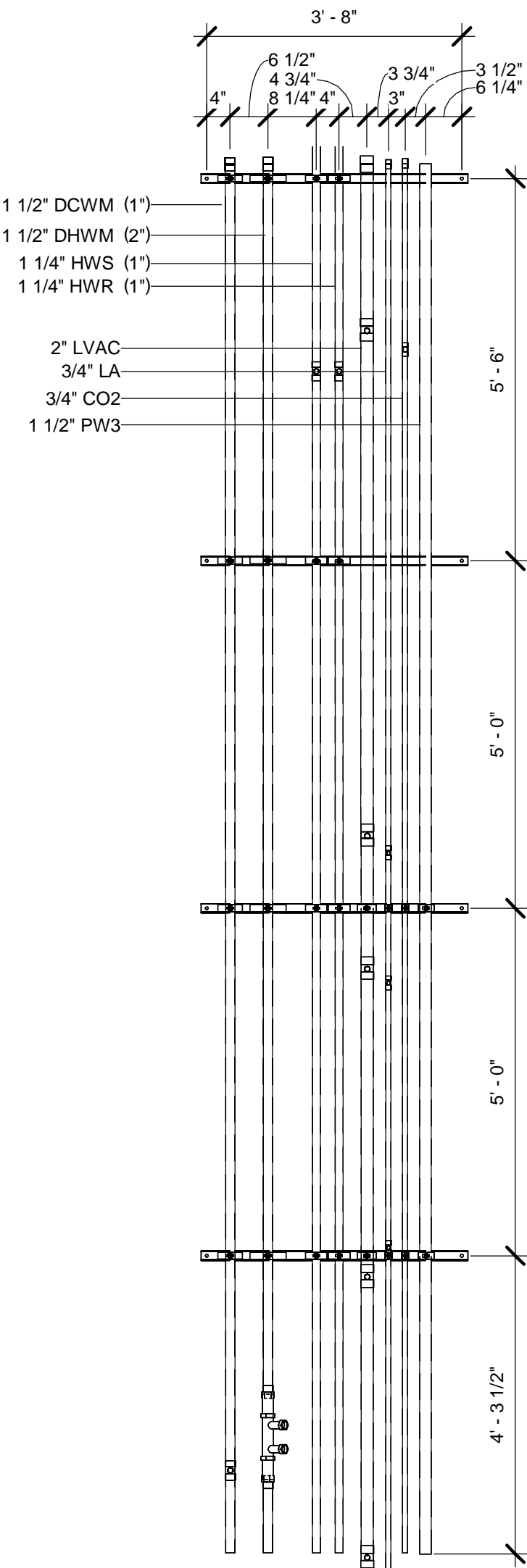
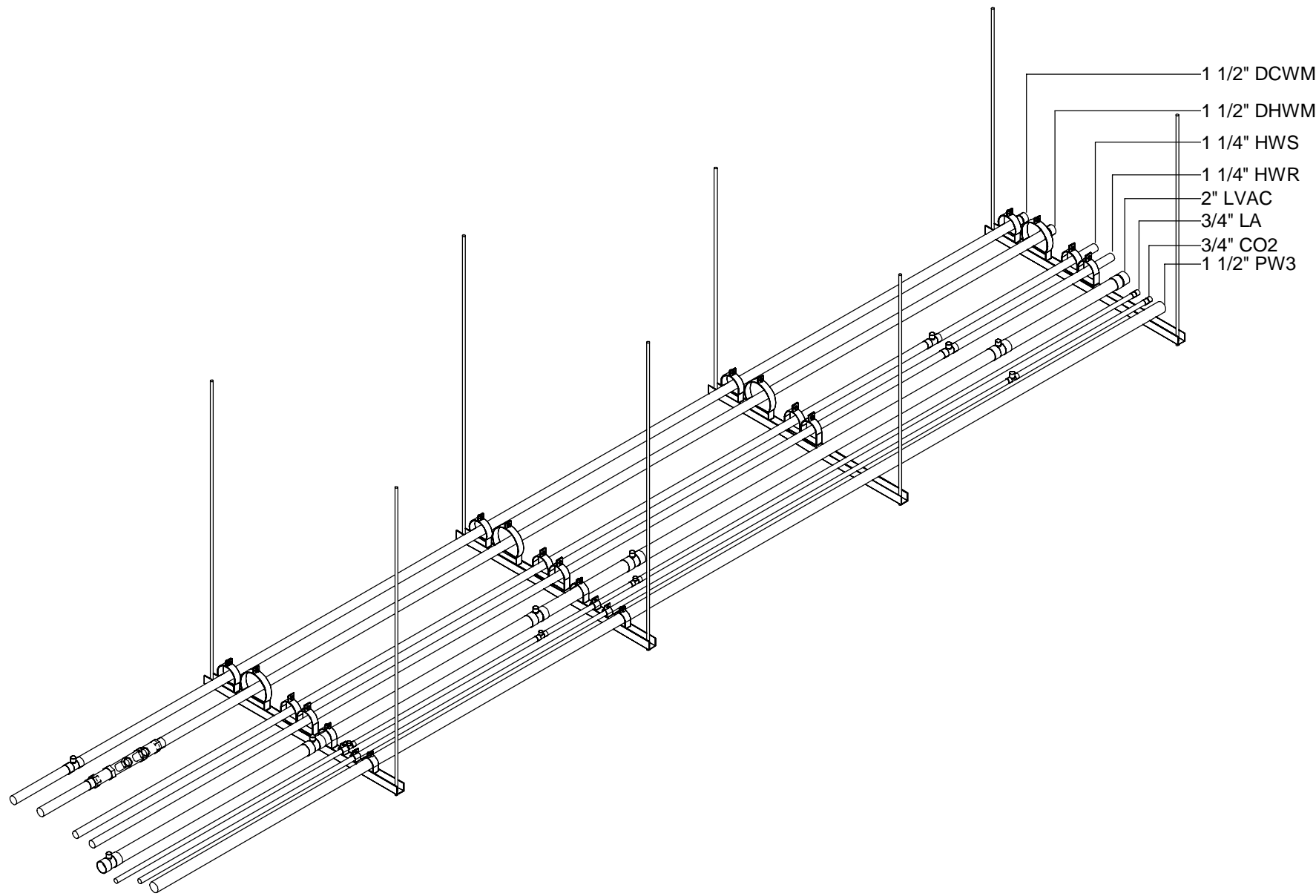


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17-11-2021 15:57:41

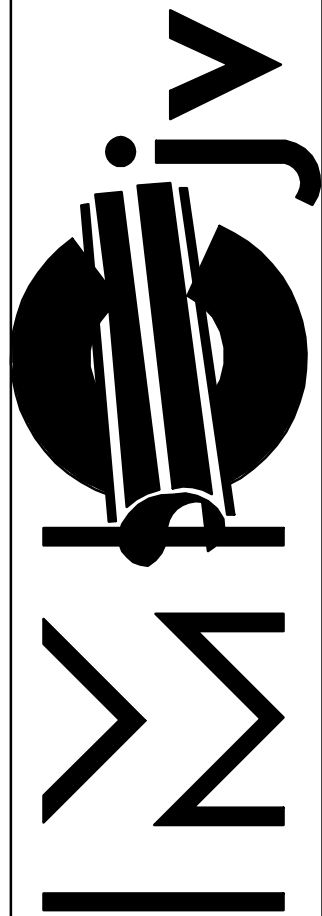


1 AS-L07-055 - ISOMETRIC  
AS-L07-055 SCALE:

2 AS-L07-055  
AS-L07-055 SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

JOB: WASH U NRB  
TICKET: AS-L07-055  
Drawn By: Author  
DATE: 11/17/21  
DATE REQ:

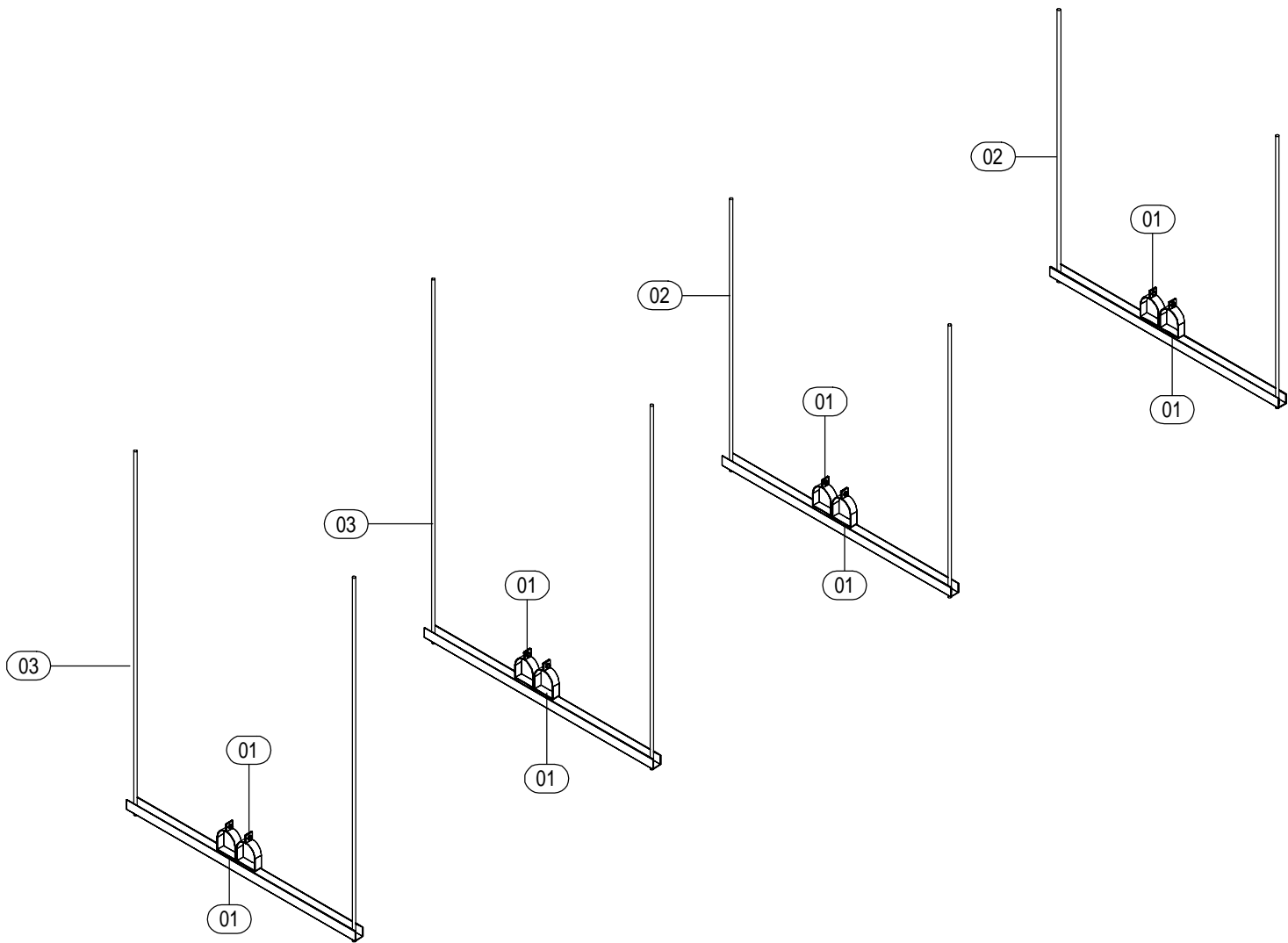


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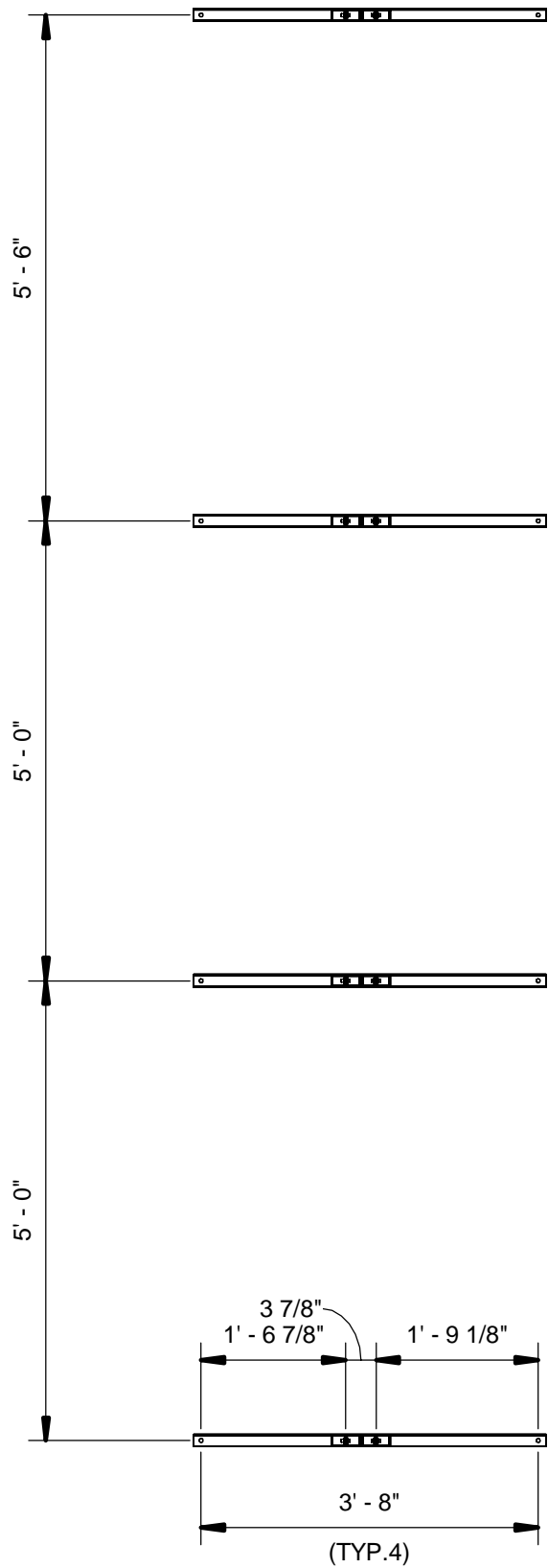
BIM 360//WUSM NRBWUSM\_RB\_HPF.rvt  
17-11-2021 15:51:30

| Mark | Qty | Size | Description                                  | Length | Strut Width | Rob 1         | Rob 2         | Insulation |
|------|-----|------|----------------------------------------------|--------|-------------|---------------|---------------|------------|
| 01   | 8   | 3"   | <del>B-Line B2000 ZN Gal 40 Pipe Clamp</del> |        | 0"          |               | 0"            |            |
| 02   | 2   | 42"  | B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut   |        | 3' - 10"    | 3' - 11 7/16" | 3' - 11 7/16" |            |
| 03   | 2   | 42"  | B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut   |        | 3' - 10"    | 5' - 3 7/16"  | 5' - 3 7/16"  |            |

01 8 3 3/8" B Line #2048



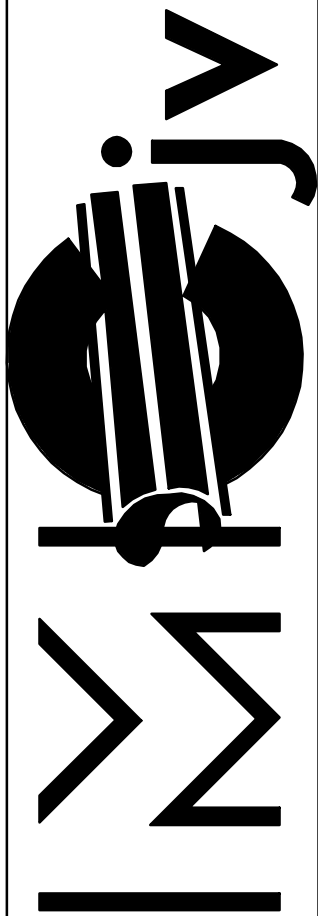
1 ISOMETRIC  
SCALE:



2 TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

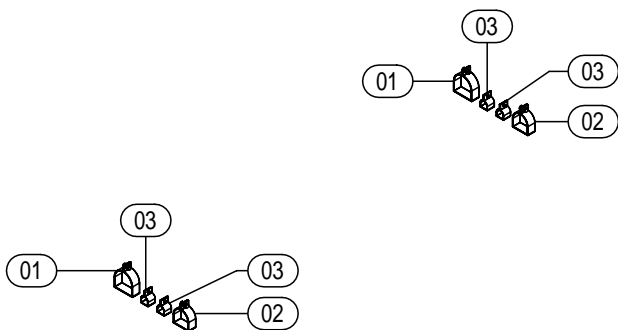
|           |               |
|-----------|---------------|
| JOB:      | WASH U NRB    |
| TICKET:   | HPHGR-L07-055 |
| Drawn By: | Author        |
| DATE:     | 11/17/21      |
| DATE REQ: |               |



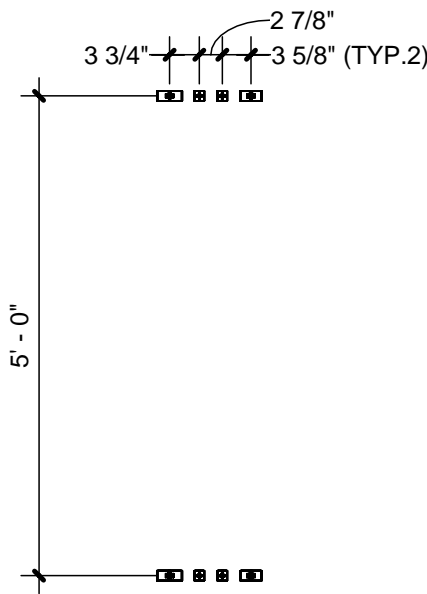
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BIM 360//WUSM NRBWUSM\_RB\_PUF.rvt  
17-11-2021 11:27:39

| Mark | Qty | Size  | Description                                       | Length | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|-------|---------------------------------------------------|--------|-------------|-------|-------|------------|
| 01   | 2   | 2.5"  | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN |        | 0"          |       | 0"    |            |
| 02   | 2   | 2"    | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN |        | 0"          |       | 0"    |            |
| 03   | 4   | 0.75" | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN |        | 0"          |       | 0"    |            |



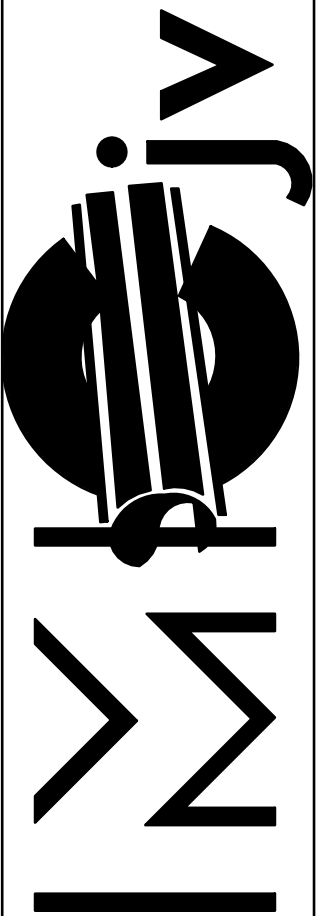
1 ISOMETRIC  
SCALE:



2 TOP VIEW  
SCALE: 1/2" = 1'-0"

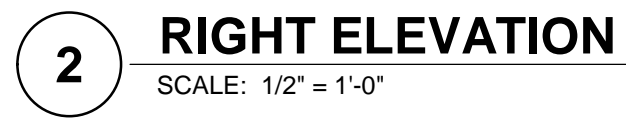
|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

|                  |               |
|------------------|---------------|
| JOB:             | WASH U NRB    |
| TICKET:          | PUHGR-L07-055 |
| Drawn By: Author |               |
| DATE: 11/17/21   | DATE REQ:     |



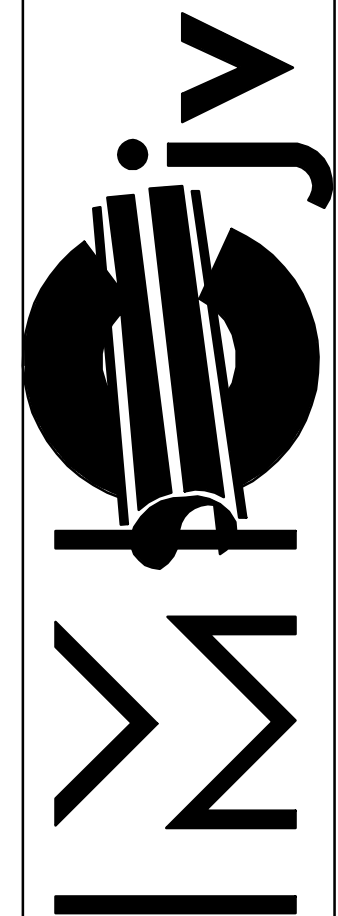
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| Mark | Qty | Size        | Description                        | Length      | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|-------------|------------------------------------|-------------|-------------|-------|-------|------------|
| 01   | 1   | 1 1/4"      | Cerro Type K Hard Copper Pipe      | 3'-2 5/16"  |             |       |       | 1"         |
| 02   | 1   | 1 1/4"      | Cerro Type K Hard Copper Pipe      | 16'-11 3/8" |             |       |       | 1"         |
| 03   | 1   | 1 1/4"x3/4" | Nibco Wrot 611R CxCxC Reducing Tee |             |             |       |       | 1"         |



|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

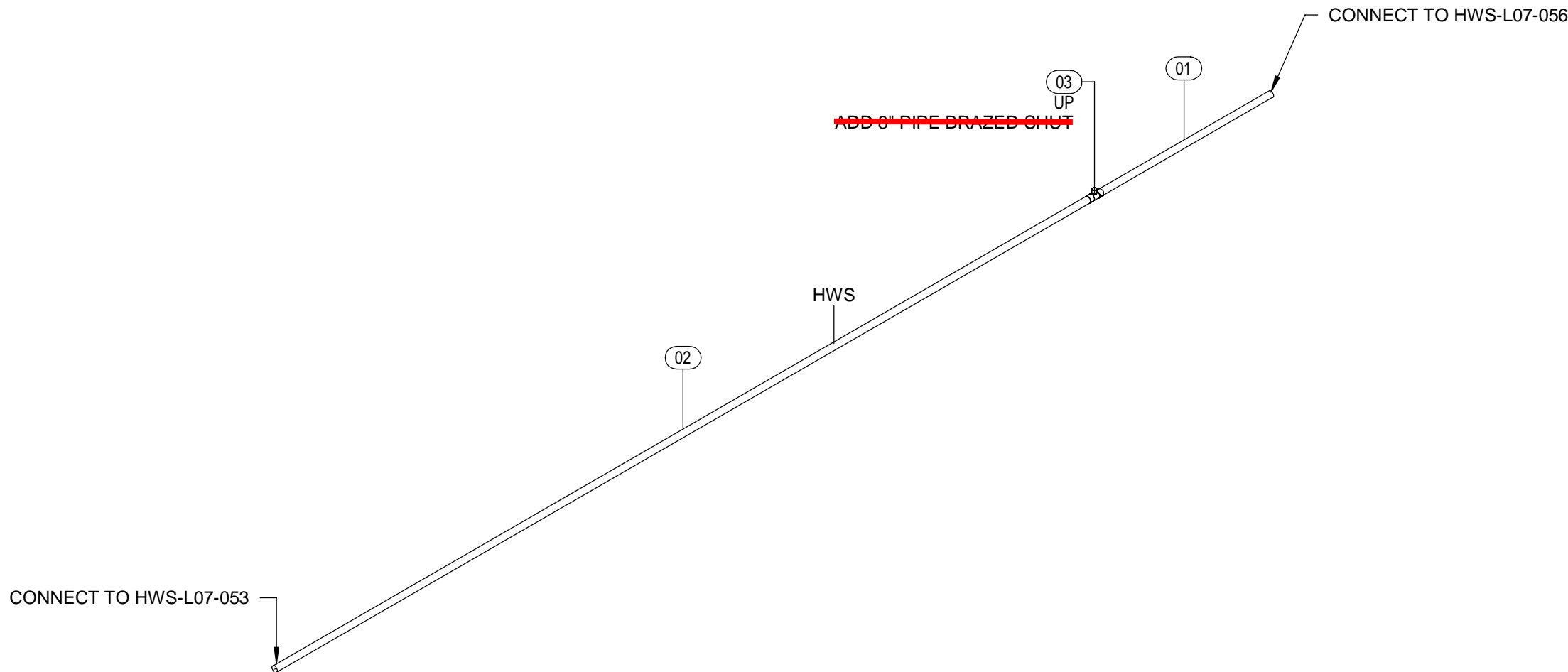
|                |           |
|----------------|-----------|
| DATE: 11/17/21 | DATE REQ: |
|----------------|-----------|



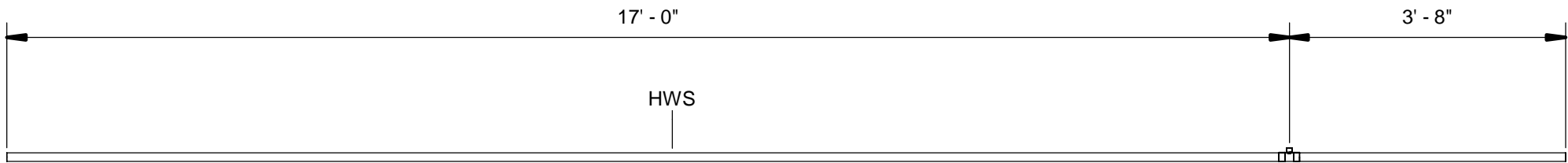
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17-11-2021 15:56:46

| Mark | Qty | Size        | Description                        | Length      | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|-------------|------------------------------------|-------------|-------------|-------|-------|------------|
| 01   | 1   | 1 1/4"      | Cerro Type K Hard Copper Pipe      | 3'-7 5/16"  |             |       |       | 1"         |
| 02   | 1   | 1 1/4"      | Cerro Type K Hard Copper Pipe      | 16'-11 3/8" |             |       |       | 1"         |
| 03   | 1   | 1 1/4"x3/4" | Nibco Wrot 611R CxCxC Reducing Tee |             |             |       |       | 1"         |



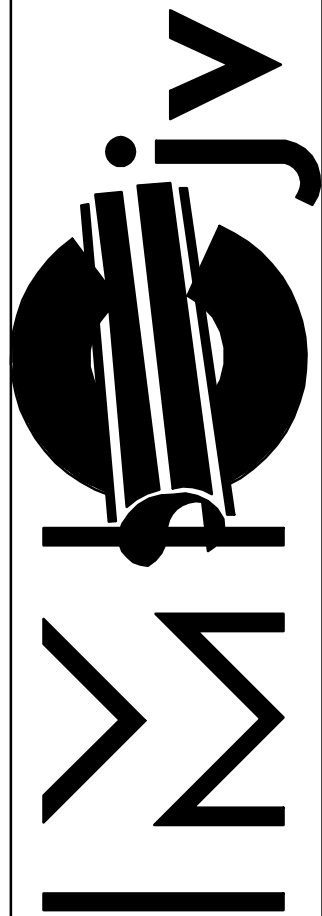
1 ISOMETRIC  
SCALE:



2 RIGHT ELEVATION  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

|                  |             |
|------------------|-------------|
| JOB:             | WASH U NRB  |
| TICKET:          | HWS-L07-055 |
| Drawn By: Author |             |
| DATE: 11/17/21   | DATE REQ:   |



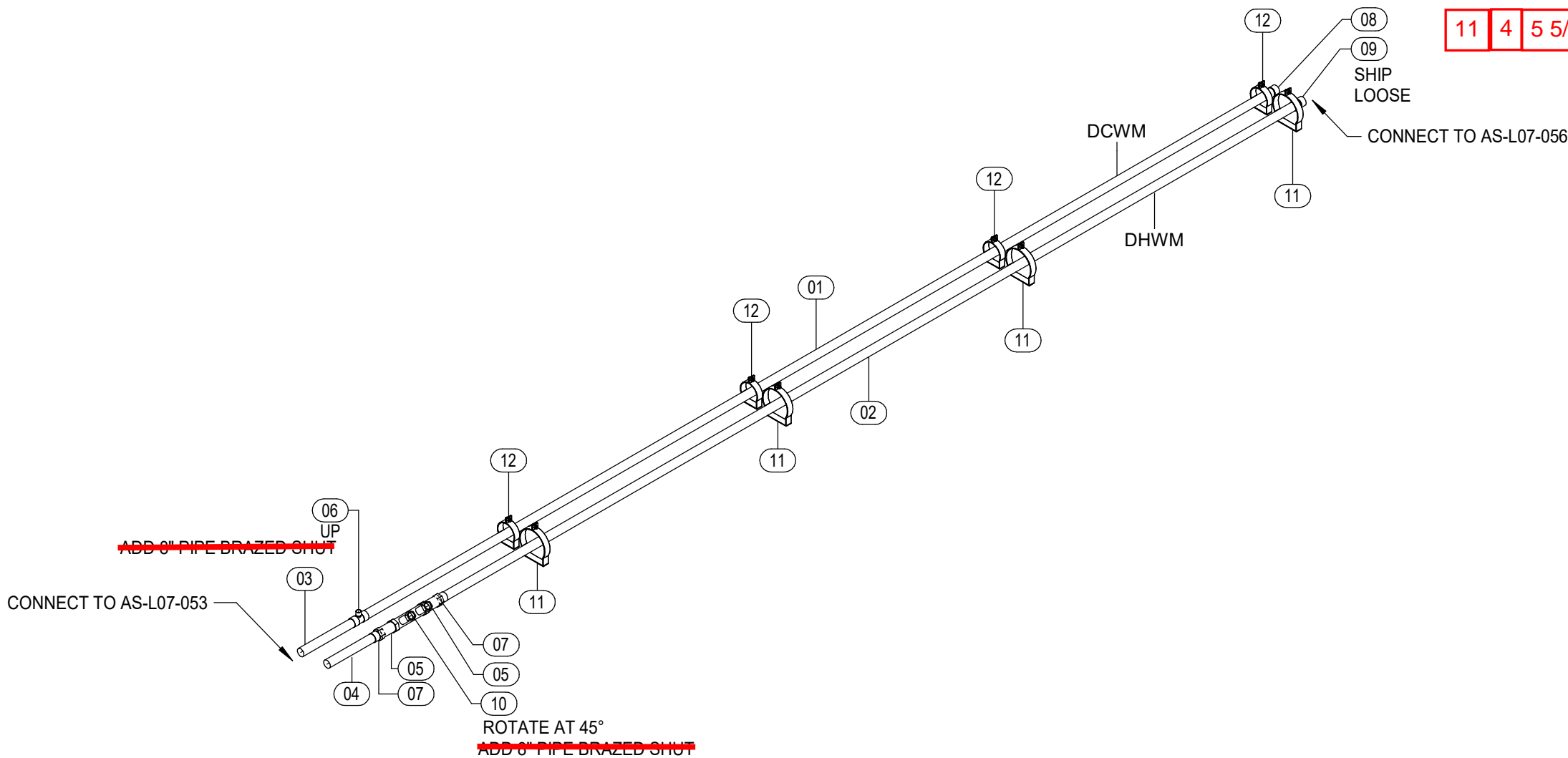
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BIM 360://WUSM NRBWUSM RB\_PLF.rvt  
11/19/2021 1:55:43 PM

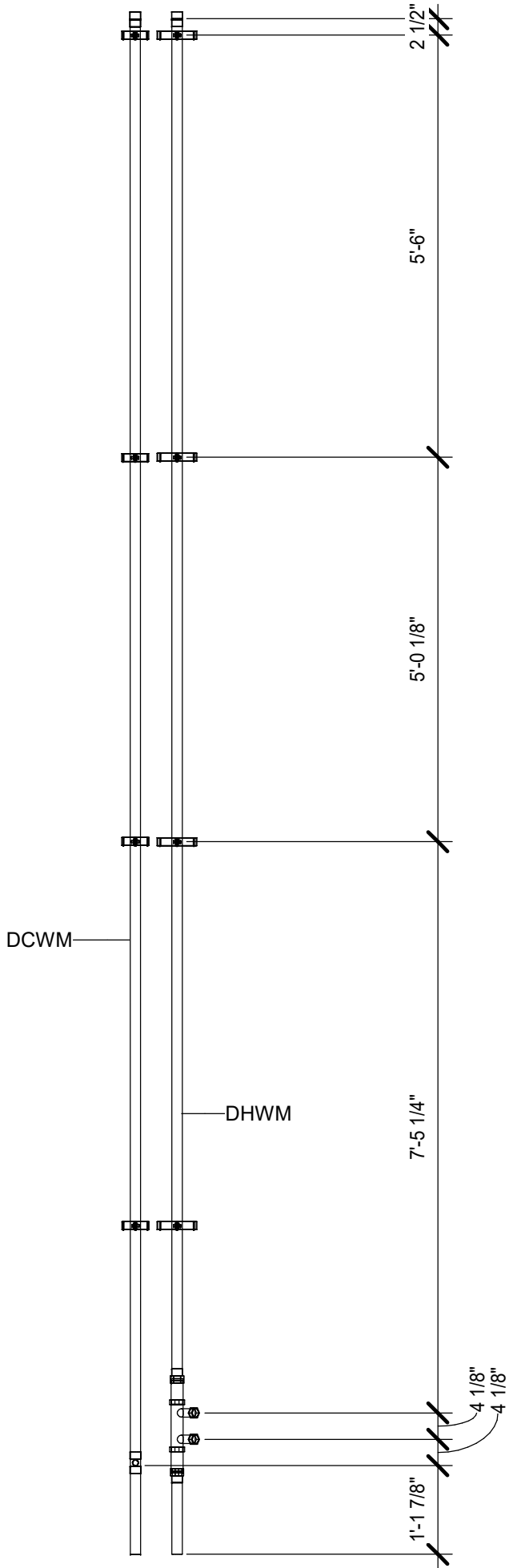
| Mark | Qty | Size             | Description                                        | Length       | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|------------------|----------------------------------------------------|--------------|-------------|-------|-------|------------|
| 01   | 1   | 1 1/2"           | Cerro Type L Hard Copper Pipe                      | 18'-8 7/8"   |             |       |       | 1"         |
| 02   | 1   | 1 1/2"           | Cerro Type L Hard Copper Pipe                      | 17'-7 15/16" |             |       |       | 2"         |
| 03   | 1   | 1 1/2"           | Cerro Type L Hard Copper Pipe                      | 1'-1 11/16"  |             |       |       | 1"         |
| 04   | 1   | 1 1/2"           | Cerro Type L Hard Copper Pipe                      | 1'-0 1/4"    |             |       |       | 2"         |
| 05   | 2   | 1 1/2"           | Victaulic No.647 TT Dielectric Transition Fitting  |              |             |       |       | 2"         |
| 06   | 1   | 1 1/2"x3/4"      | Nibco Wrot 611R CxCxC Reducing Tee                 |              |             |       |       | 1"         |
| 07   | 2   | 1 1/2"           | Nibco Wrot 603 Adapter CxF                         |              |             |       |       | 2"         |
| 08   | 1   | 1 1/2"           | Nibco Wrot 600 Dimpled Stop Coupling CxC           |              |             |       |       | 1"         |
| 09   | 1   | 1 1/2"           | Nibco Wrot 600 Dimpled Stop Coupling CxC           |              |             |       |       | 2"         |
| 10   | 1   | 1 1/2"x1"        | Kemper Kemper Fig651 20 KHS Flow-Splitter FPT      |              |             |       |       | 2"         |
| 11   | 4   | <del>6-10"</del> | <del>B Line B2000 Series OD Pipe and Conduit</del> |              | 0"          |       | 0"    |            |
| 12   | 4   | <del>2-63"</del> | <del>B Line B2000 Series OD Pipe and Conduit</del> |              | 0"          |       | 0"    |            |

12 4 3 5/8" B Line #2050

11 4 5 5/8" B Line #2066



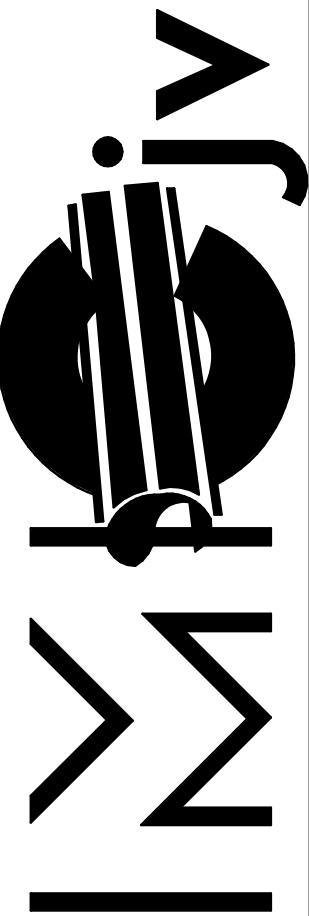
1 ISOMETRIC  
SCALE:



2 TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

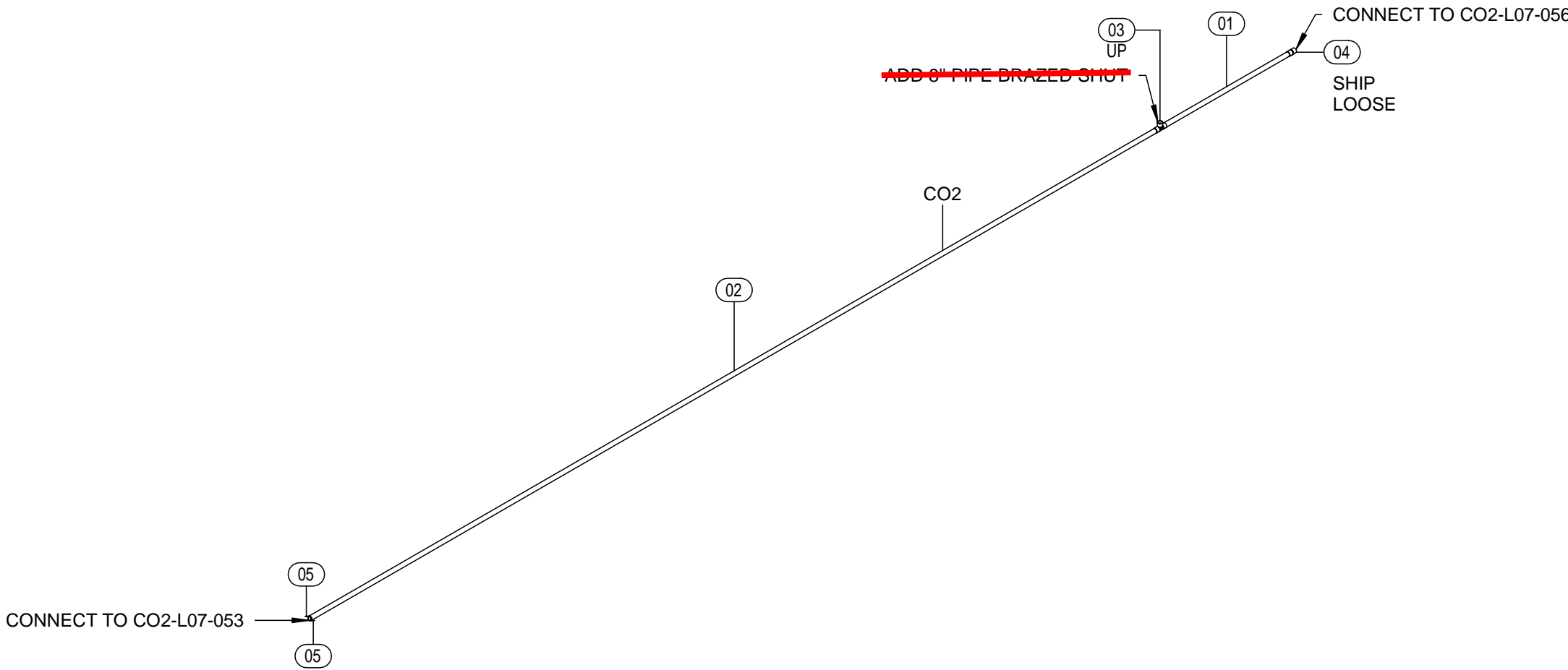
JOB: WASH U NRB  
TICKET: PP-L07-055  
Drawn By: Author  
DATE: 11/17/21  
DATE REQ:



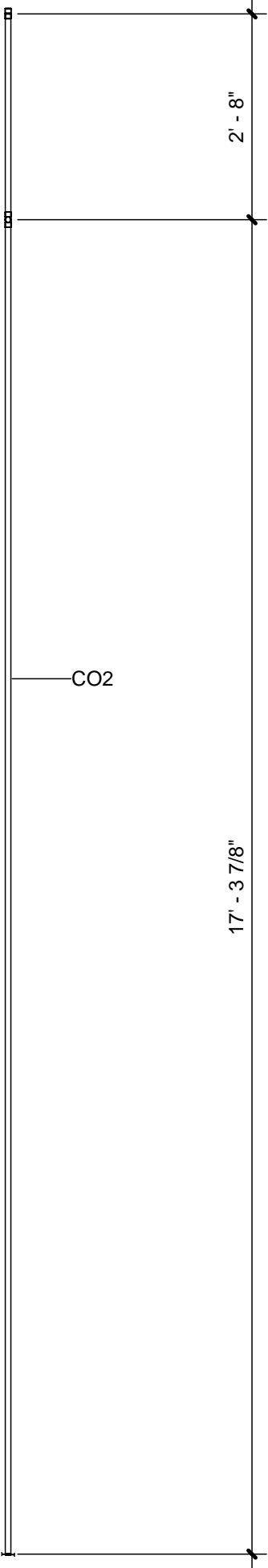
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17-11-2021 10:53:27

| Mark | Qty | Size | Description                                           | Length      | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|------|-------------------------------------------------------|-------------|-------------|-------|-------|------------|
| 01   | 1   | 3/4" | Cerro Type L Hard Copper - CFOS                       | 2'-7 5/8"   |             |       |       |            |
| 02   | 1   | 3/4" | Cerro Type L Hard Copper - CFOS                       | 17'-3 7/16" |             |       |       |            |
| 03   | 1   | 3/4" | Nibco 611-CB CFOS Wrot Copper Tee                     |             |             |       |       |            |
| 04   | 1   | 3/4" | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop |             |             |       |       |            |
| 05   | 2   | 3/4" | Generic Silfos Brazed Joint                           |             |             |       |       |            |



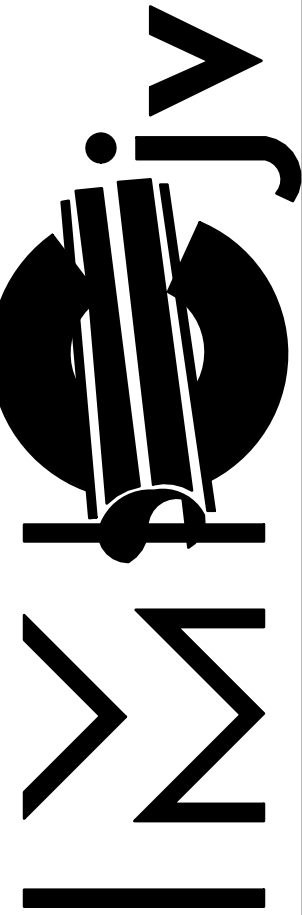
1 ISOMETRIC  
SCALE:



2 TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

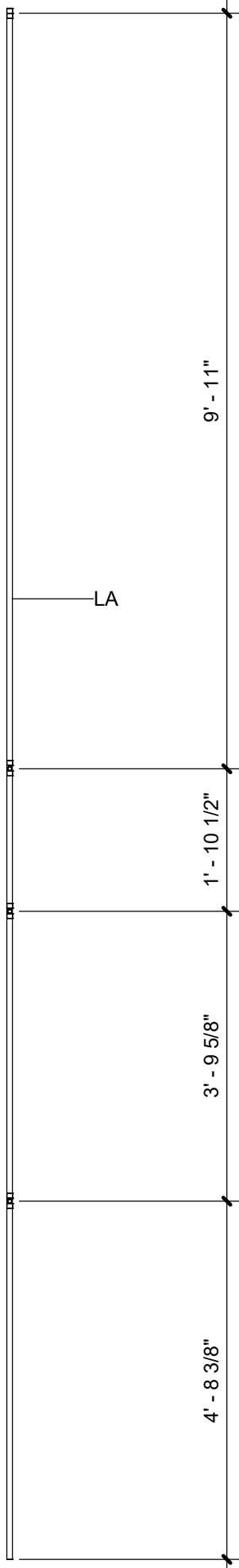
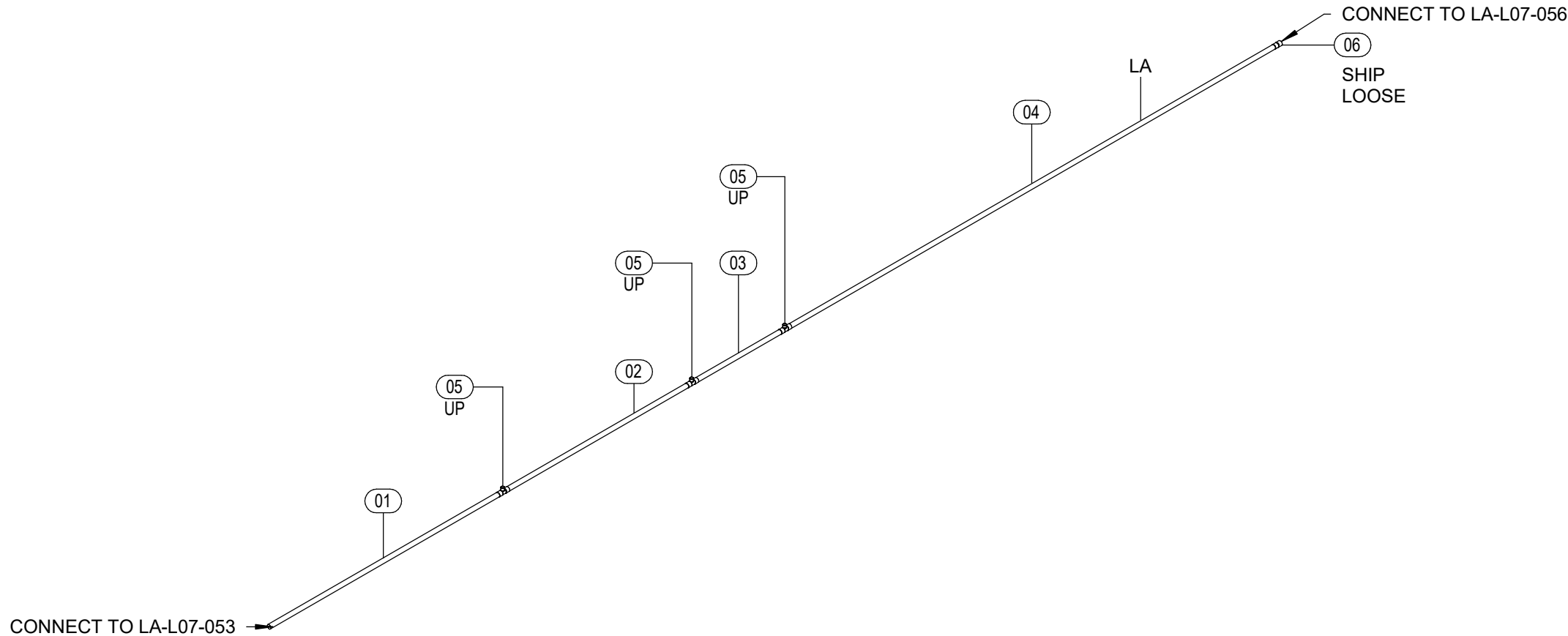
JOB: WASH U NRB  
TICKET: CO2-L07-055  
Drawn By: Author  
DATE: 11/17/21  
DATE REQ:



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2/7/2022 11:41:43 AM

| Mark | Qty | Size           | Description                                           | Length     | Insulation |
|------|-----|----------------|-------------------------------------------------------|------------|------------|
| 01   | 1   | 3/4"           | Cerro Type L Hard Copper - CFOS                       | 4'-8"      |            |
| 02   | 1   | 3/4"           | Cerro Type L Hard Copper - CFOS                       | 3'-8 7/8"  |            |
| 03   | 1   | 3/4"           | Cerro Type L Hard Copper - CFOS                       | 1'-9 5/8"  |            |
| 04   | 1   | 3/4"           | Cerro Type L Hard Copper - CFOS                       | 9'-10 3/8" |            |
| 05   | 3   | 3/4"x1/2"x3/4" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee           |            |            |
| 06   | 1   | 3/4"           | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop |            |            |

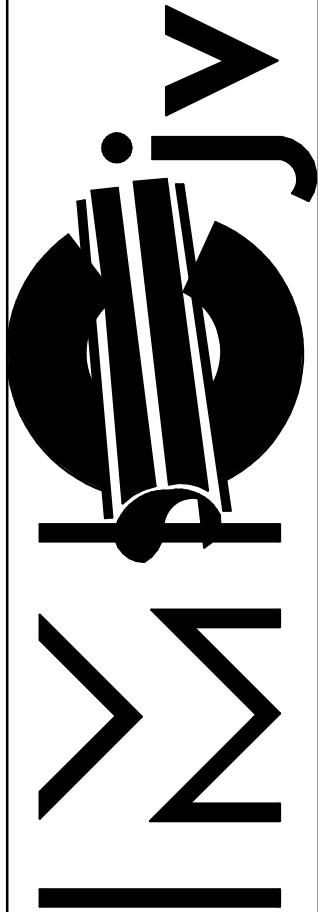


1 ISOMETRIC  
SCALE:

2 TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

|                  |            |
|------------------|------------|
| JOB:             | WASH U NRB |
| TICKET:          | LA-L07-055 |
| Drawn By: Author |            |
| DATE: 11/17/21   | DATE REQ:  |

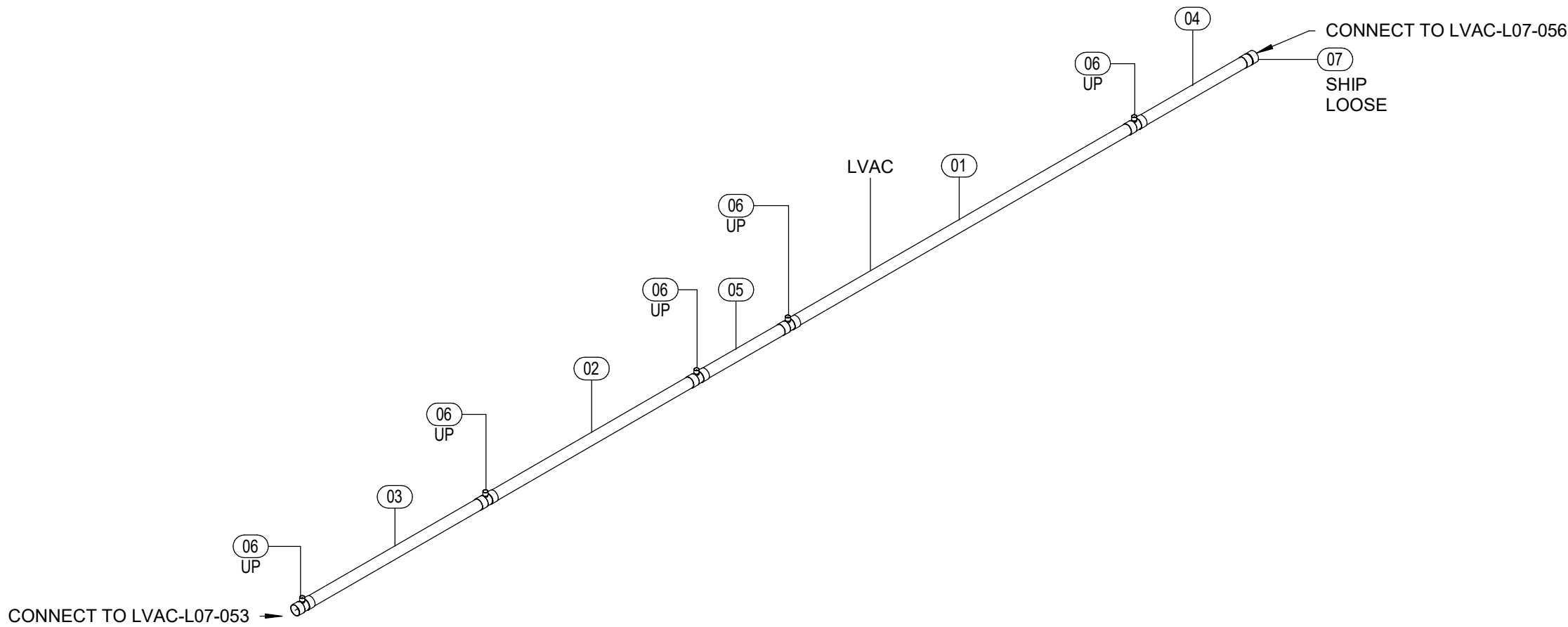


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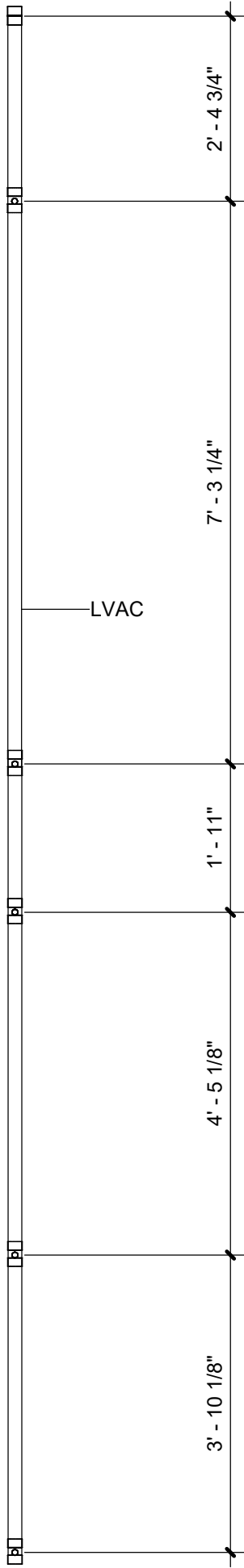


BIM 360://WUSM NRBWUSM\_RB\_PUF.rvt  
2/7/2022 11:42:06 AM

| Mark | Qty | Size       | Description                                           | Length    | Insulation |
|------|-----|------------|-------------------------------------------------------|-----------|------------|
| 01   | 1   | 2"         | Cerro Type L Hard Copper - CFOS                       | 7'-3 1/4" |            |
| 02   | 1   | 2"         | Cerro Type L Hard Copper - CFOS                       | 4'-4"     |            |
| 03   | 1   | 2"         | Cerro Type L Hard Copper - CFOS                       | 3'-8 7/8" |            |
| 04   | 1   | 2"         | Cerro Type L Hard Copper - CFOS                       | 2'-4"     |            |
| 05   | 1   | 2"         | Cerro Type L Hard Copper - CFOS                       | 1'-9 3/4" |            |
| 06   | 5   | 2"x3/4"x2" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee           |           |            |
| 07   | 1   | 2"         | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop |           |            |



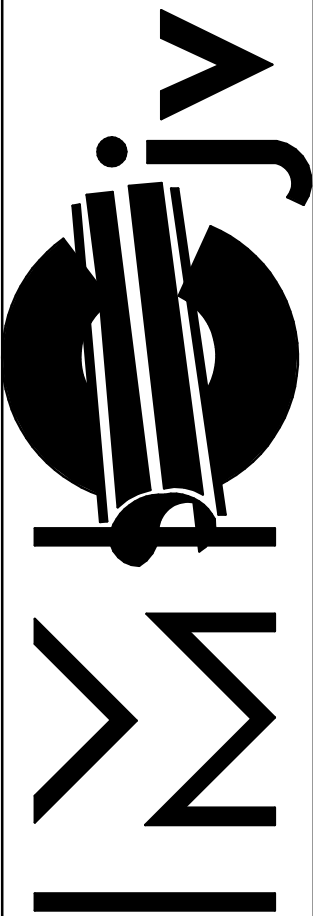
1 ISOMETRIC  
SCALE:



2 TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

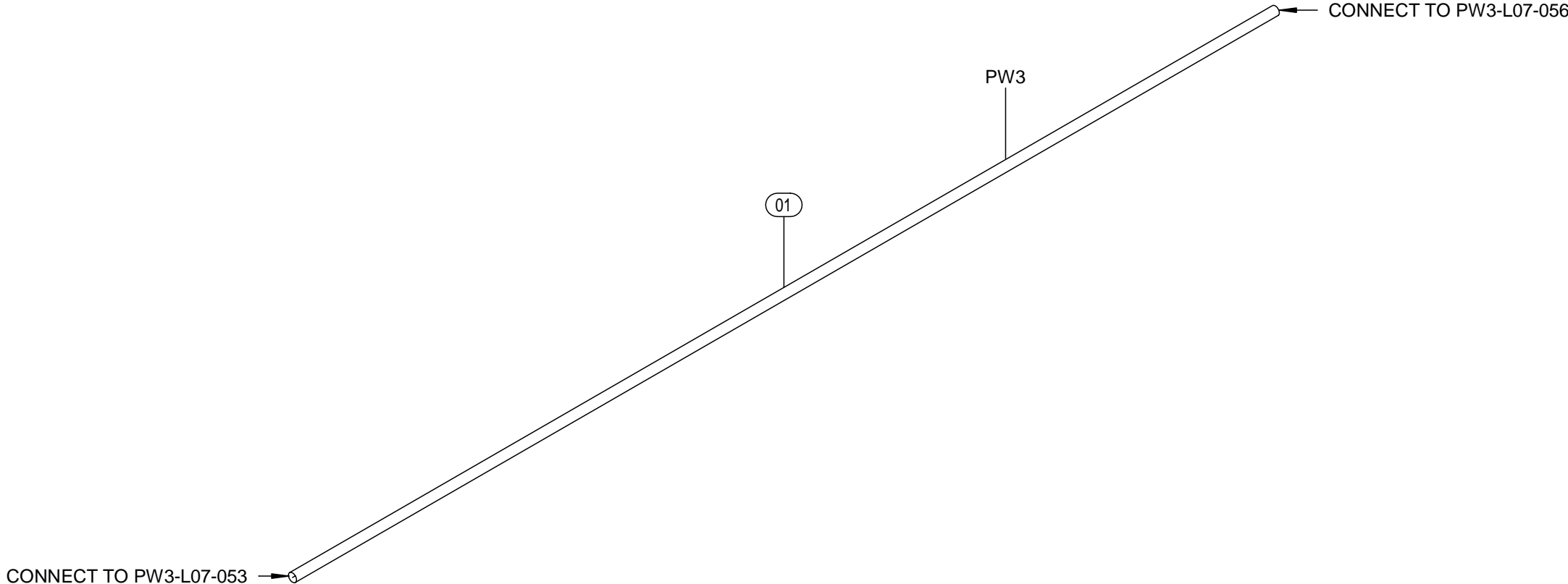
|                  |              |
|------------------|--------------|
| JOB:             | WASH U NRB   |
| TICKET:          | LVAC-L07-055 |
| Drawn By: Author |              |
| DATE: 11/17/21   | DATE REQ:    |



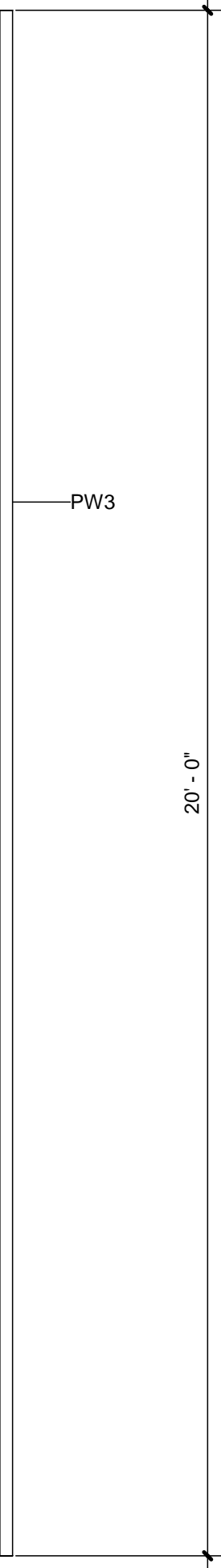
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17-11-2021 10:44:31

| Mark | Qty | Size   | Description                                            | Length | Strut Width | Rob 1 | Rob 2 | Insulation |
|------|-----|--------|--------------------------------------------------------|--------|-------------|-------|-------|------------|
| 01   | 1   | 1 1/2" | Geroge Fischer Slone PROGEF STD-PP IR Butt-Fusion Pipe | 20'-0" |             |       |       |            |



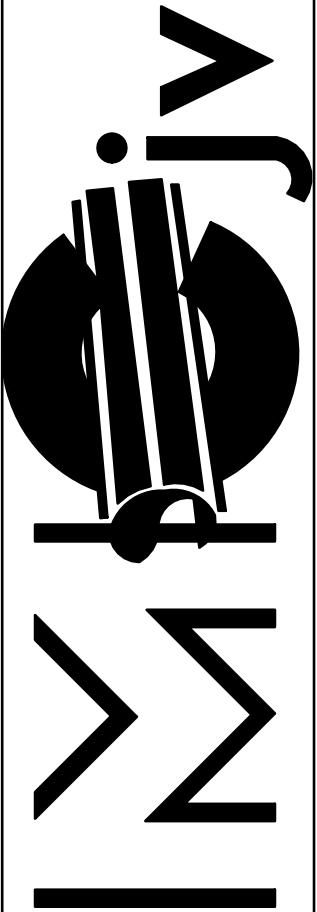
**1** ISOMETRIC  
SCALE:



**2** TOP VIEW  
SCALE: 1/2" = 1'-0"

|    |    |    |    |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

|                  |             |
|------------------|-------------|
| JOB:             | WASH U NRB  |
| TICKET:          | PW3-L07-055 |
| Drawn By: Author |             |
| DATE: 11/17/21   | DATE REQ:   |



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