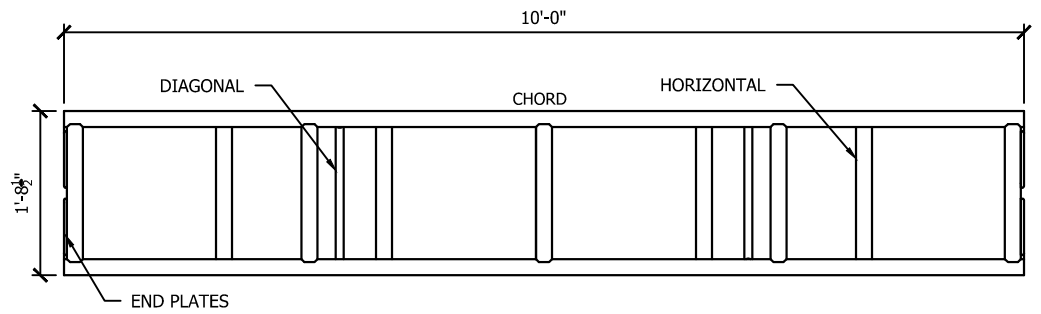
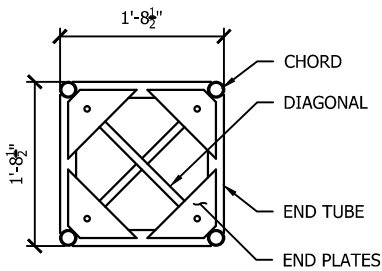


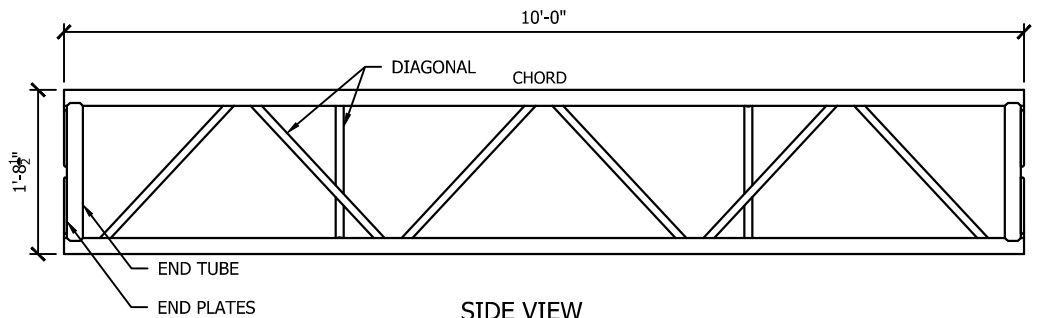
**3D VIEW**



**TOP VIEW**



**END VIEW**



**SIDE VIEW**

**RELIABLE DESIGN 20.5"x20.5" TRUSS TABLE**

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
10'-0"	907 lb/ft	0.080 in	6,194 lbs	0.089 in	4,534 lbs	0.111 in	3,022 lbs	0.103 in	2,267 lbs	0.097 in
20'-0"	304 lb/ft	0.439 in	3,037 lbs	0.356 in	2,278 lbs	0.454 in	1,519 lbs	0.422 in	1,265 lbs	0.442 in
30'-0"	131 lb/ft	0.987 in	1,958 lbs	0.807 in	1,469 lbs	1.021 in	979 lbs	0.950 in	816 lbs	0.994 in
40'-0"	70 lb/ft	1.755 in	1,399 lbs	1.450 in	1,049 lbs	1.812 in	699 lbs	1.692 in	583 lbs	1.767 in
50'-0"	42 lb/ft	2.741 in	1,047 lbs	2.296 in	785 lbs	2.826 in	523 lbs	2.649 in	436 lbs	2.760 in

**PARTS LIST**

DIAGONALS	1"Øx1/8" PIPE
HORIZONTALS	2"Øx1/8" PIPE
CHORDS	2"Øx1/8" PIPE
END TUBE	2"Øx1/8" PIPE
END PLATES	PLATE 3/8"

**NOTES:**

1. ALL ALUMINUM IS 6061-T6
2. WELD FILLER 5556
3. 5/8"Ø GRADE 8 BOLTS

**TABLE USAGE NOTES:**

1. THE TRUSS IS SUPPORTING VERTICAL LOADS ONLY, I.E. THE TRUSS LADDERS ARE ORIENTED VERTICALLY AND NO LATERAL LOADS ARE APPLIED TO THE TRUSS.
2. THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
3. THE TRUSS HAS BEEN ANALYZED FOR STATIC LOADS ONLY.
4. ALL LOADS ARE APPLIED CENTERED BETWEEN THE LADDERS.
5. ALL LOADS AND SUPPORTS ARE TO BE LOCATED AT THE PANEL POINTS OF THE TRUSS ONLY.
6. SELF WEIGHT HAS BEEN CONSIDERED IN THE ANALYSIS OF THE TRUSS.
7. MAXIMUM DEFLECTION LIMITED TO SPAN/180.
8. ALLOWABLE LOADS BASED ON 2010 ALUMINUM DESIGN MANUAL.

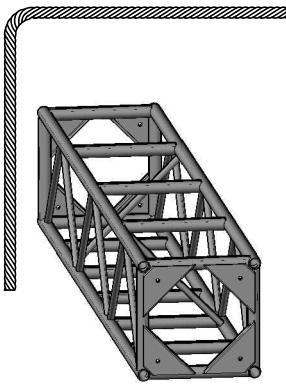
**RELIABLE DESIGN  
20.5"x20.5" TRUSS**  
SINGLE USE

**CLARK REDER  
ENGINEERING**  
10091 Mosteller Lane  
West Chester, OH 45069  
513 851 1223

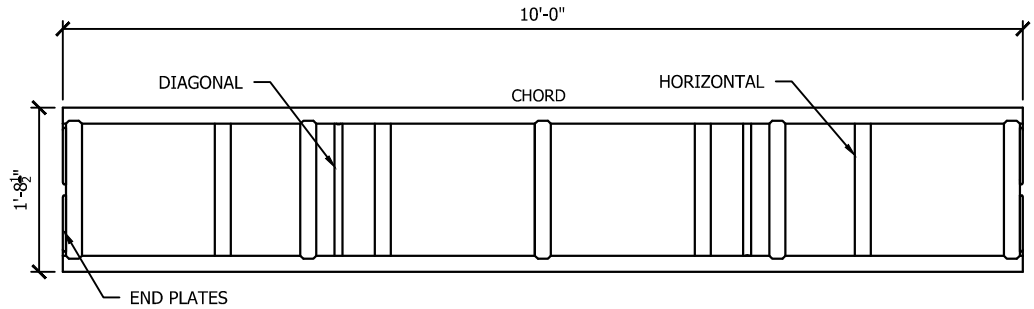
10'-0" TRUSS TABLE

DATE: 11/10/2015  
CRE PROJECT NO: 15.401.04  
DRAWN BY: JMR / TWL

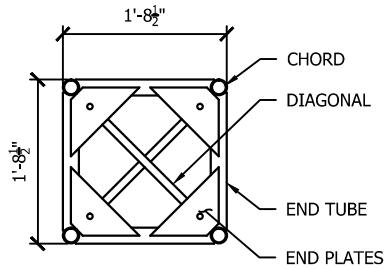
**ST1.1**



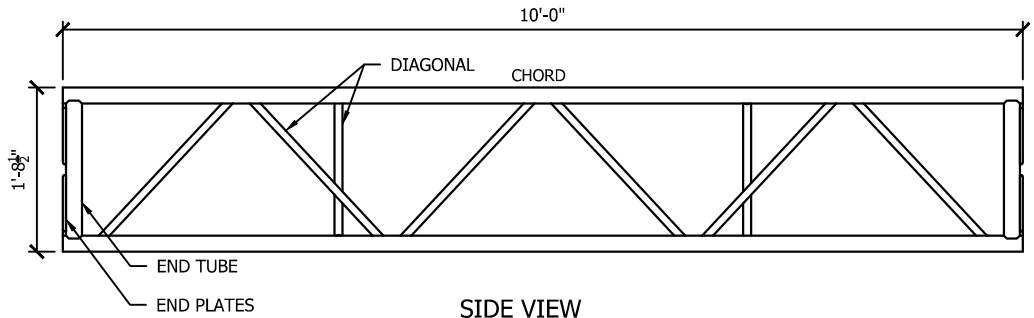
**3D VIEW**



**TOP VIEW**



**END VIEW**



**SIDE VIEW**

**RELIABLE DESIGN 20.5"x20.5" TRUSS TABLE**

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
10'-0"	771 lb/ft	0.068 in	5,265 lbs	0.075 in	3,854 lbs	0.094 in	2,569 lbs	0.087 in	1,927 lbs	0.083 in
20'-0"	258 lb/ft	0.375 in	2,582 lbs	0.304 in	1,936 lbs	0.388 in	1,291 lbs	0.360 in	1,076 lbs	0.377 in
30'-0"	111 lb/ft	0.847 in	1,664 lbs	0.694 in	1,248 lbs	0.877 in	832 lbs	0.816 in	693 lbs	0.854 in
40'-0"	59 lb/ft	1.518 in	1,189 lbs	1.259 in	892 lbs	1.568 in	594 lbs	1.465 in	495 lbs	1.529 in
50'-0"	36 lb/ft	2.396 in	890 lbs	2.017 in	667 lbs	2.468 in	445 lbs	2.318 in	371 lbs	2.412 in

**PARTS LIST**

DIAGONALS	1"Øx1/8" PIPE
HORIZONTALS	2"Øx1/8" PIPE
CHORDS	2"Øx1/8" PIPE
END TUBE	2"Øx1/8" PIPE
END PLATES	PLATE 3/8"

- NOTES:**
- ALL ALUMINUM IS 6061-T6
  - WELD FILLER 5556
  - 5/8"Ø GRADE 8 BOLTS

**TABLE USAGE NOTES:**

- THE TRUSS IS SUPPORTING VERTICAL LOADS ONLY, I.E. THE TRUSS LADDERS ARE ORIENTED VERTICALLY AND NO LATERAL LOADS ARE APPLIED TO THE TRUSS.
- THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
- THE TRUSS HAS BEEN ANALYZED FOR STATIC LOADS ONLY.
- ALL LOADS ARE APPLIED CENTERED BETWEEN THE LADDERS.
- ALL LOADS AND SUPPORTS ARE TO BE LOCATED AT THE PANEL POINTS OF THE TRUSS ONLY.
- SELF WEIGHT HAS BEEN CONSIDERED IN THE ANALYSIS OF THE TRUSS.
- MAXIMUM DEFLECTION LIMITED TO SPAN/180.
- ALLOWABLE LOADS BASED ON 2010 ALUMINUM DESIGN MANUAL. ALL CAPACITIES ARE REDUCED TO 0.85 PER ANSI E1.2-2012 FOR REPETITIVE USE MEMBERS

**RELIABLE DESIGN  
20.5"x20.5" TRUSS**  
REPETITIVE USE

**CLARK REDER**  
ENGINEERING  
10091 Mosteller Lane  
West Chester, OH 45069  
513 851 1223

10'-0" TRUSS TABLE

DATE: 11/10/2015  
CRE PROJECT NO: 15.401.04  
DRAWN BY: JMR / TWL

**ST1.2**