# GENERAL STRUCTURAL NOTES

## EVENT DATE & LOCATION

1. EVENT DATE: WINTER 2016/017
2. EVENT LOCATION: FENWAY PARK, BOSTON, MA

## CODES AND REFERENCE

1. 2009 INTERNATIONAL BUILDING CODE
2. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3. ASCE 37-14 DESIGN LOADS ON STRUCTURES UNDER CONSTRUCTION
4. ANSI E1.21-2013 ENTERTAINMENT TECHNOLOGY, "TEMPORARY STRUCTURES USED IN THE TECHNICAL PRODUCTION OF OUTDOOR ENTERTAINMENT EVENTS"
5. ANSI E1.2-2012 ENTERTAINMENT TECHNOLOGY, "DESIGN, MANUFACTURE AND USE OF ALUMINUM TRUSSES AND TOWERS"
6. ALUMINUM DESIGN MANUAL, 2010 EDITION
7. AISC STEEL MANUAL, 13TH EDITION

## DESIGN LOADS

1. DEAD LOAD: SELFWEIGHT OF STRUCTURE
2. LIVE LOADS: 25 PSF OCCUPANCY (3 RIDERS MAX)
   A. OCCUPANCY NOT LIMITED BY STRUCTURAL ADEQUACY OF SYSTEM. (3) PERSON LIMIT IS BASED ON USE OF SYSTEM AND NOT STRENGTH REQUIREMENTS.
3. SNOW LOAD ON RAMP: 30 PSF
   A. IF SNOW EXCEEDS 18" IN DEPTH THE EXCESS SNOW IS REQUIRED TO BE SHOVELED OFF THE RAMP.
4. HANDRAILS
   A. 200 POUND CONCENTRATED LOAD AT TOP OF RAIL
   B. 50 PLF IN ANY DIRECTION AT TOP OF RAIL
5.
6. WIND LOAD:
   A. DESIGN WIND SPEED: 115 MPH (WITH SCRIM)
   B. EXPOSURE: B
   C. IMPORTANCE FACTOR: 1.0
7. SEISMIC LOADS DO NOT CONTROL THE DESIGN OF THIS STRUCTURE.

## CONSTRUCTION AND SAFETY

1. ENGINEER SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, OR SEQUENCE OF CONSTRUCTION UNLESS SPECIFICALLY STATED ON THE DRAWINGS.
2. ENGINEER HAS DESIGNED THE STRUCTURES FOR THEIR FINAL AS-BUILT CONDITION. ENGINEER IS NOT RESPONSIBLE FOR TEMPORARY STABILITY OF STRUCTURES DURING ERECTION UNLESS SPECIFICALLY STATED ON THE DRAWINGS.
3. STRUCTURE HAS BEEN DESIGNED AS A TEMPORARY STRUCTURE THAT SHALL BE IN PLACE FOR 6 WEEKS TO 6 MONTHS.

## FOUNDATIONS

1. THE STRUCTURE IS ASSUMED TO BE FOUNDED ON LEVEL GROUND WITHIN THE STADIUM. THE GEOTECHINICAL ENGINEER IS REQUIRED TO ADVISE ON THE BEARING CAPACITY OF THE SOIL IF IT IS A CONCERN.

## ALUMINUM

1. ALUMINUM SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   A. MEMBER ALLOY: 6005-T5 OR 6061-T6 OR 6005A-T6
   B. CHANNELS, PLATES AND SHEETS: 6061-T6
   C. WELD FILLER ALLOW: 4043, 5356, OR 5556
2. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL, CURRENT EDITION.
3. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY LATEST EDITION.
4. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
5. ALUMINUM TRUSS TO ALUMINUM TRUSS CONNECTION BOLTS: 5/8" DIAMETER GRADE 8 BOLTS

## STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   A. ROLLED WIDE FLANGE SHAPES: ASTM A992, FY = 50 KSI
   B. MISC PLATE, BAR, ANGLES AND CHANNELS: ASTM A36, FY = 36 KSI
   C. PIPE SHAPES: ASTM A53, TYPE E OR S, GRADE B, FY = 35 KSI
   D. HSS TUBES: ASTM A500 GR B, FY = 46 KSI
   E. HSS ROUND: ASTM A500 GR B, FY = 42KSI
   F. BOLTS OR SCAFFOLD CONNECTION PINS: SAE J429 GRADE 5 BOLTS (FY=92 KSI)
2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY LATEST EDITION.

## SCAFFOLD UNITS

1. SCAFFOLD UNITS SHALL BE MODULAR SCAFFOLD BY LAYHER, MILLENNIUM, ETOBICOKE IRONWORKS, KWIKSTAGE OR APPROVED EQUAL.
2. MODIFICATIONS TO SCAFFOLD UNITS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERECTION.
3. ERECTION OF SCAFFOLD UNITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE CONTRACTOR OF RECORD (HOLDER OF PERMITS).
4. ALL MEMBERS SHALL BE INSTALLED SUCH THAT THE WEDGES ARE DRIVEN TIGHT AND COUPLER CLAMPS ARE INSTALLED TIGHT. NO LOOSE MEMBERS ARE ALLOWED.
5. DIAGONAL BRACES ARE REQUIRED AS INDICATED ON THE ATTACHED DRAWINGS. DIAGONAL BRACES, AT A MINIMUM, SHALL BE INSTALLED AT EACH CORNER BAY AND AT EVERY OTHER BAY UNLESS NOTED OTHERWISE.
6. VERTICAL SCAFFOLD LEGS SHALL HAVE A POSITIVE CONNECTION PIN OR BOLT INSTALLED AT EACH SPLICE LOCATION ON BOTH SIDES OF THE SPLICE.
7. FIELD CONNECTIONS SHALL BE BOLTED OR CONNECTED WITH APPROVED SCAFFOLD CONNECTORS.

## INSPECTIONS

1. ALL TRUSS UNITS, SCAFFOLD AND/OR OTHER RIGGING EQUIPMENT SHALL BE VISUALLY INSPECTED PRIOR TO ERECTION. DAMAGED OR CORRODED EQUIPMENT SHALL NOT BE USED. FIELD MODIFICATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

## OPERATIONS MANAGEMENT PLAN

1. THE RAMP SHALL BE EVACUATED OF ALL PERSONNEL IF WIND SPEEDS ARE EXPECTED TO EXCEED 40 MPH. NO RIDERS SHALL BE ALLOWED TO USE THE RAMP IF WIND SPEEDS ARE EXPECTED TO EXCEED 25 MPH.
2. NO MORE THAN 18" OF SNOW SHALL ACCUMULATE ON THE RAMP AT ANY TIME. REMOVE EXCESS SNOW PRIOR TO ALLOWING MORE RIDERS ON THE RAMP.


CLARK REI ENGINEERING

10091 Mosteller Lane
West Chester, OH 45069
513 851 1223


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED
PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK--REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


SNOW SLED HILL

PORTLAND, ME

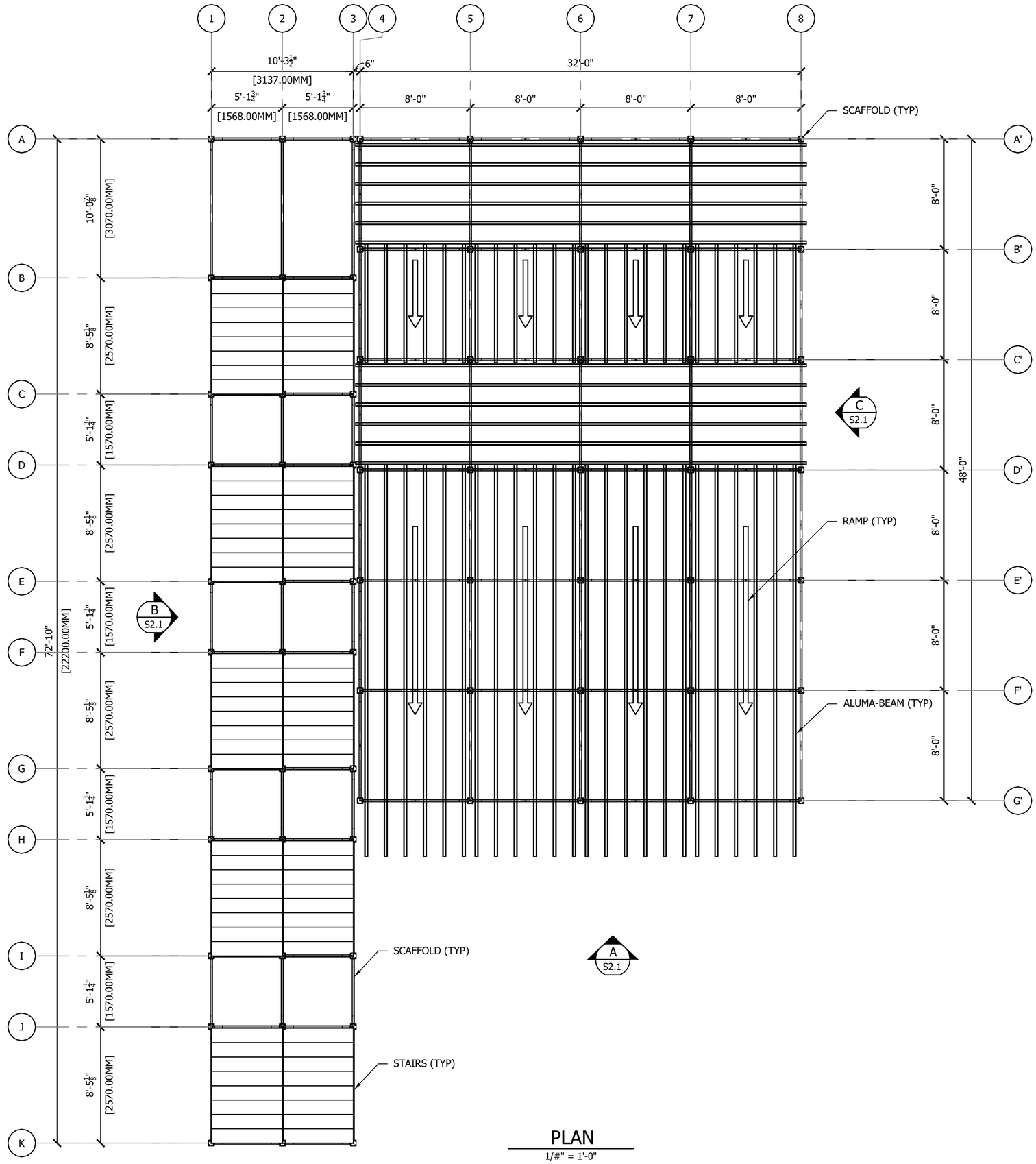
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

GENERAL NOTES

S0.0




## PLAN

1/#" = 1'-0"


CLARK REI ENGINEERING

10091 Mosteller Lane
West Chester, OH 45069
513 851 1223


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK–REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


# SNOW SLED HILL

PORTLAND, ME

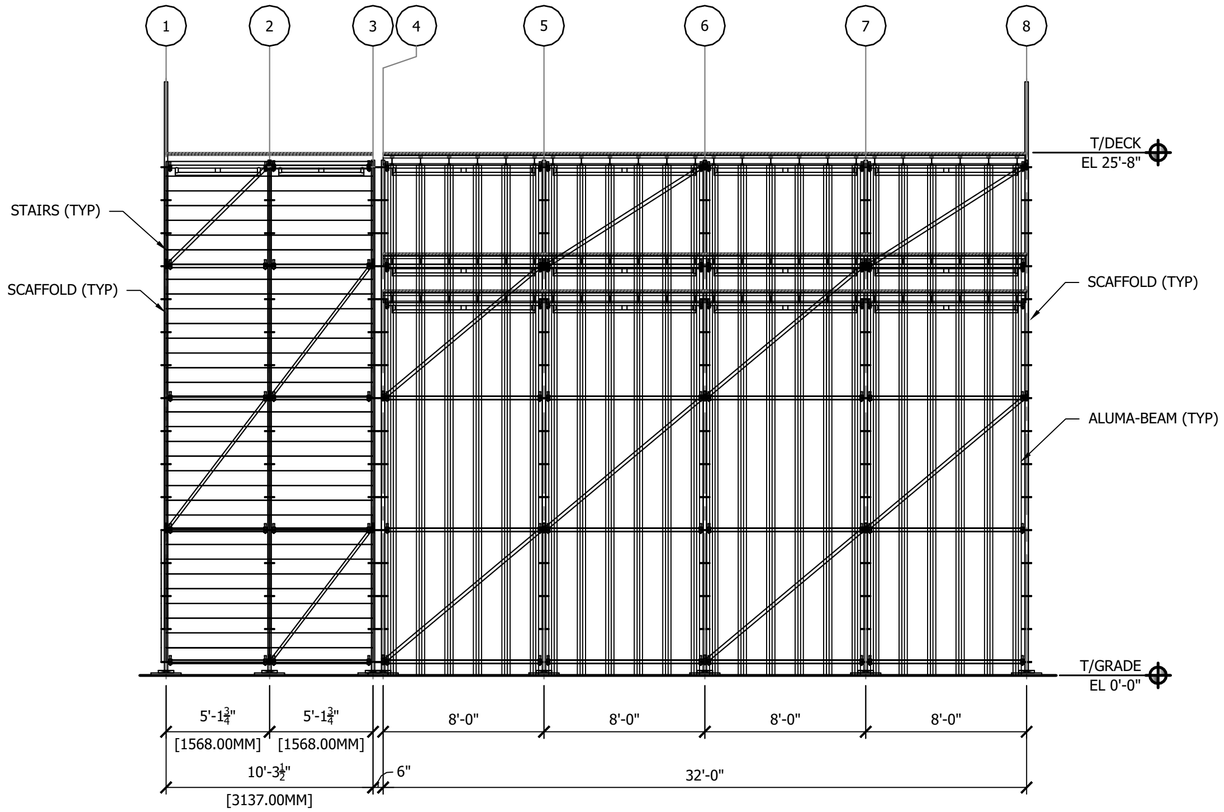
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

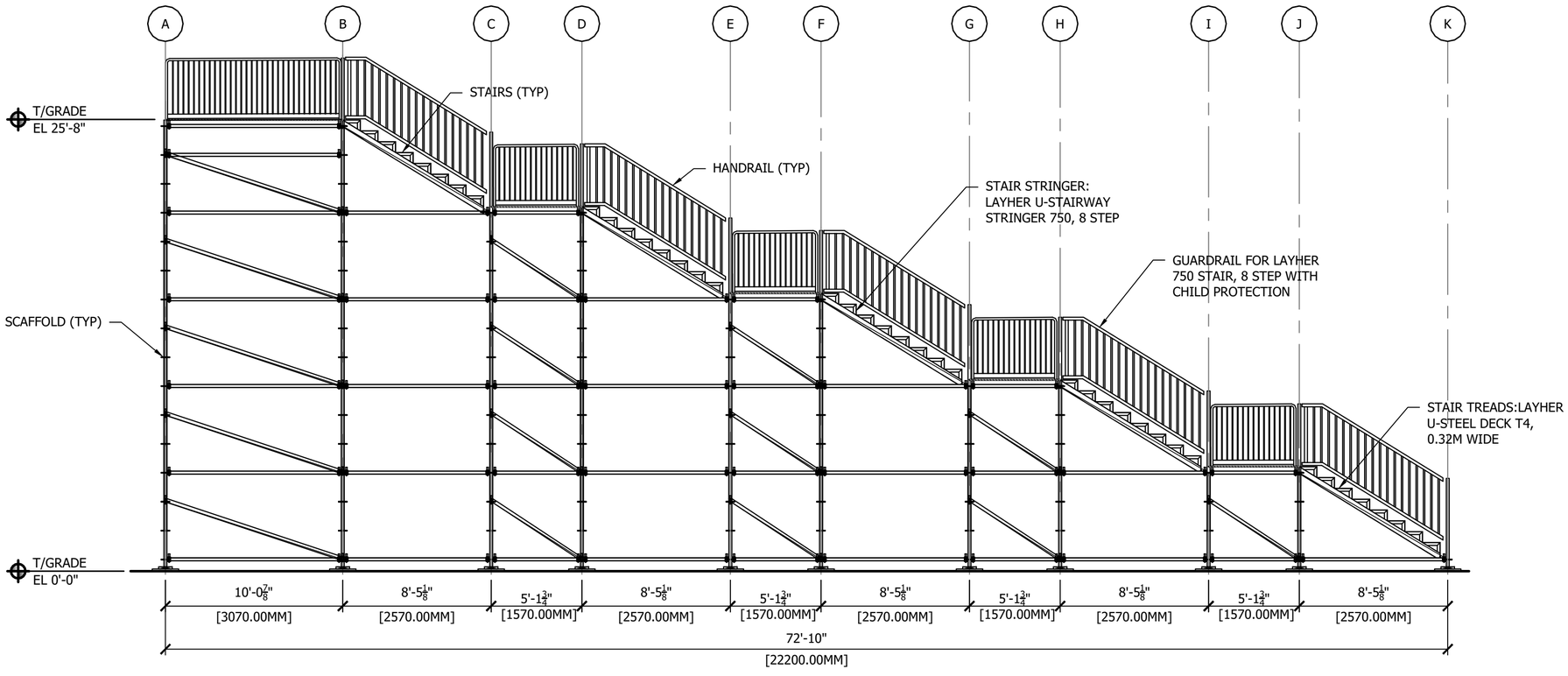
PLAN

S1.1




ELEVATION A / S2.1

3/16" = 1'-0"




ELEVATION B / S2.1

3/16" = 1'-0"


CLARK REI ENGINEERING

10091 Mosteller Lane
West Chester, OH 45069
513 851 1223


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK–REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


SNOW SLED HILL

PORTLAND, ME

ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

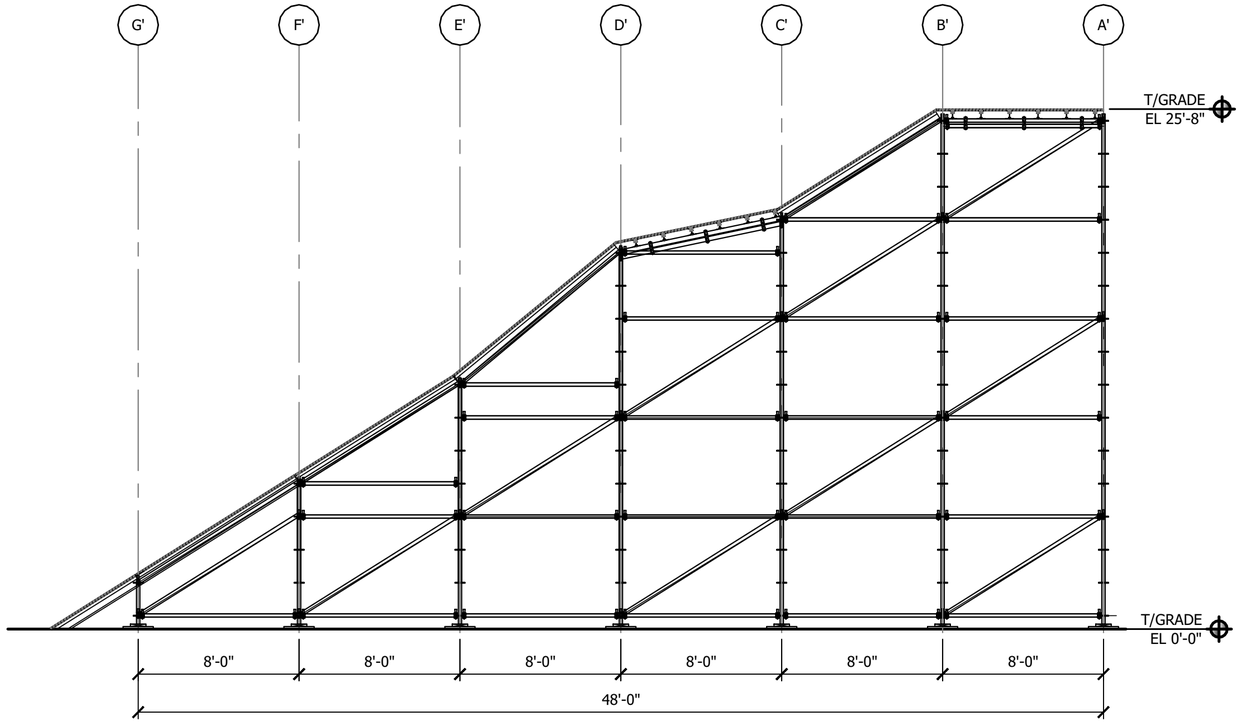
DATE: 11/01/2016

CRE PROJECT NO: 16.612.18(1)

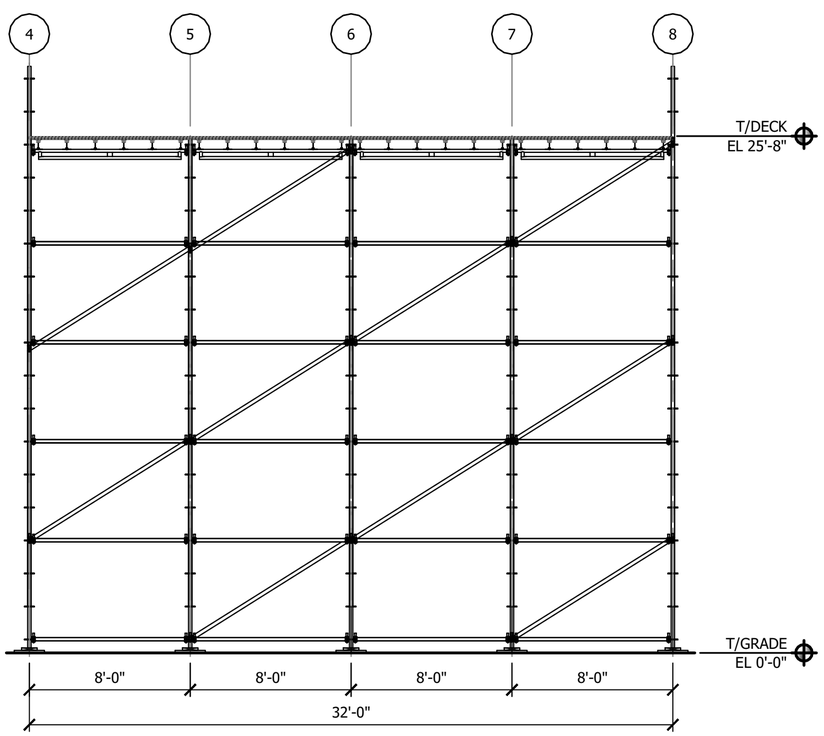
DRAWN BY: JMR / TWL

ELEVATIONS

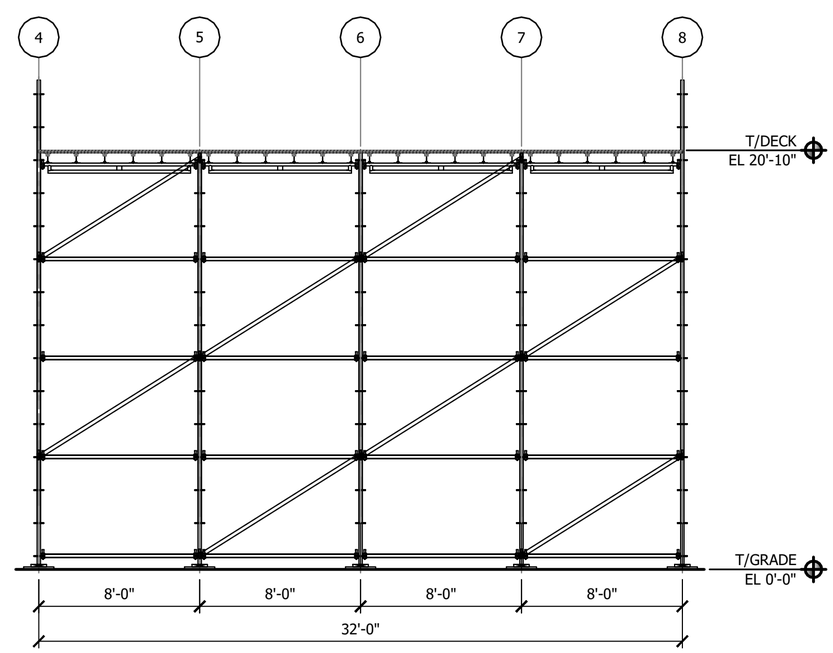
S2.1




ELEVATION C
3/16" = 1'-0"
S2.2




ELEVATION @ COLUMN LINE B' & A'
3/16" = 1'-0"




ELEVATION @ COLUMN LINE C'
3/16" = 1'-0"

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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016

COPYRIGHT © 2016
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK-REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.

SNOW SLED HILL
PORTLAND, ME

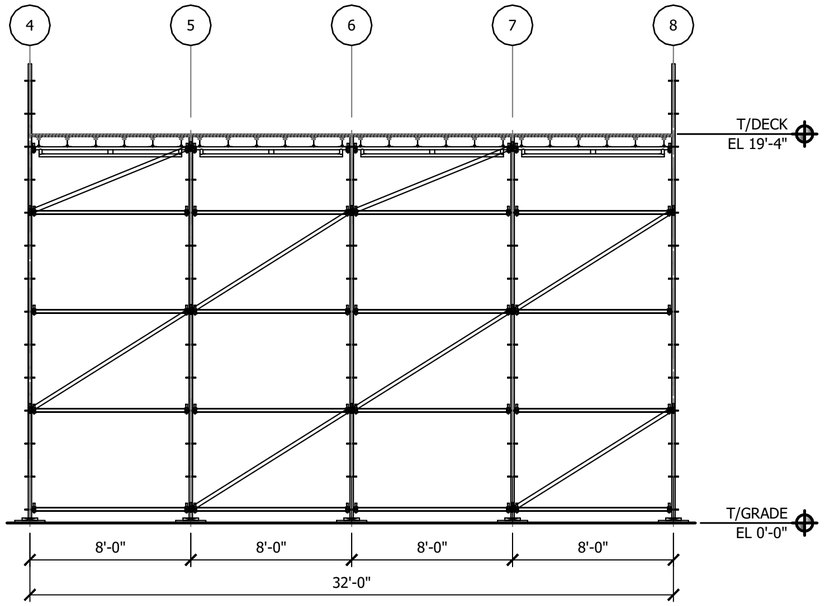
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

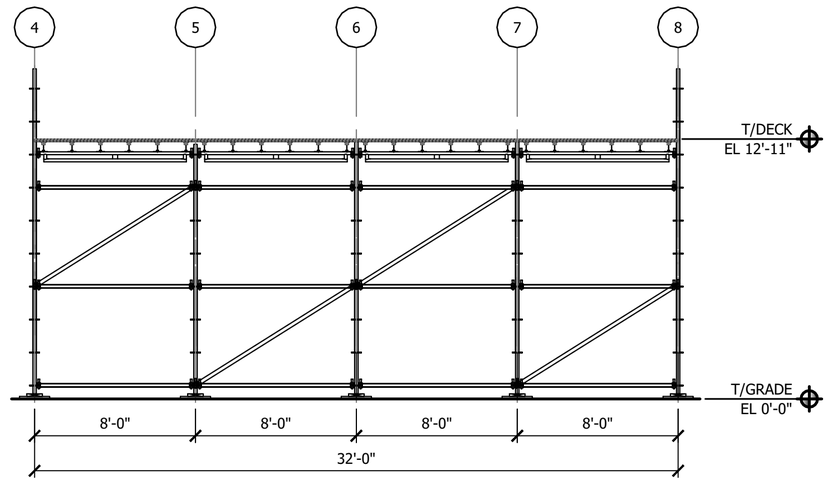
ELEVATIONS

S2.2



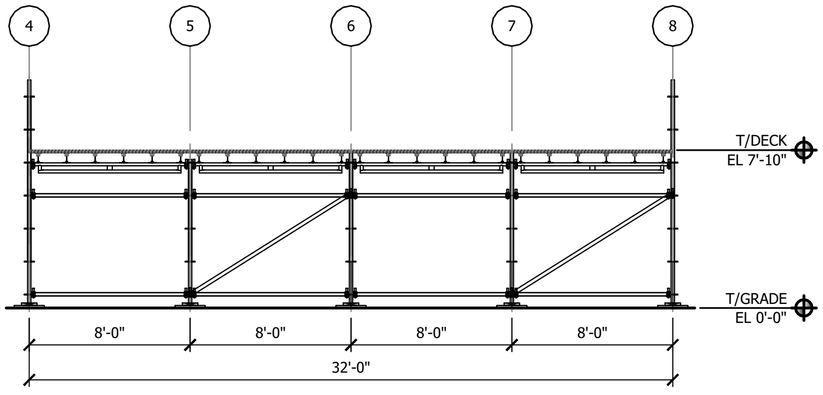

ELEVATION @ COLUMN LINE D'

3/16" = 1'-0"



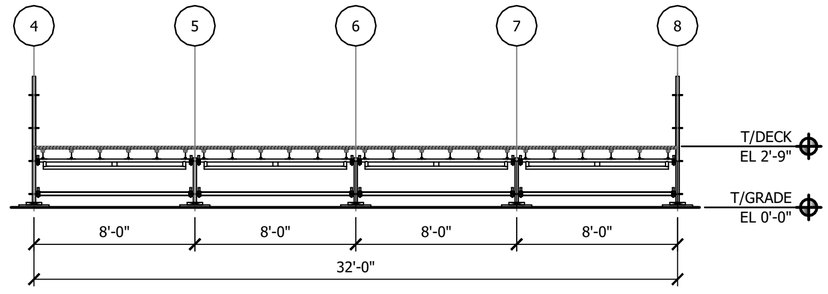

ELEVATION @ COLUMN LINE E'

3/16" = 1'-0"




ELEVATION @ COLUMN LINE F'

3/16" = 1'-0"




ELEVATION @ COLUMN LINE G'

3/16" = 1'-0"

CLARK REI ENGINEERING

10091 Mosteller Lane
West Chester, OH 45069
513 851 1223

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016

COPYRIGHT © 2016

THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK-REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.

SNOW SLED HILL

PORTLAND, ME

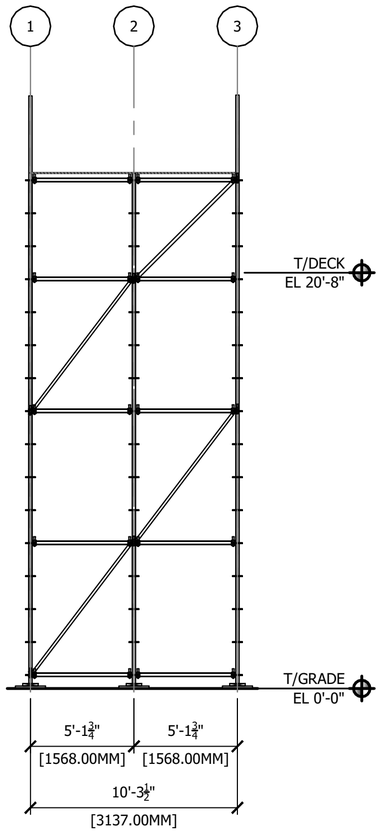
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

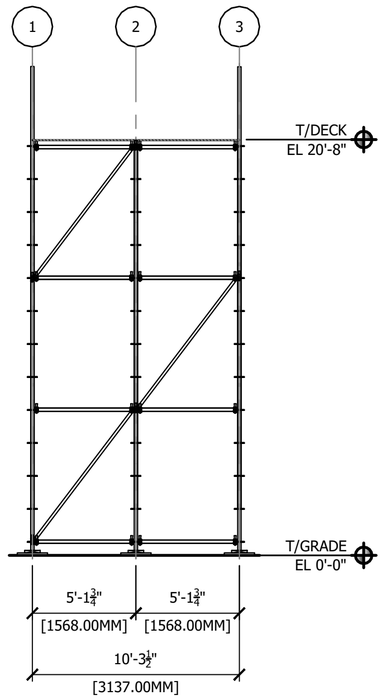
ELEVATIONS

S2.3



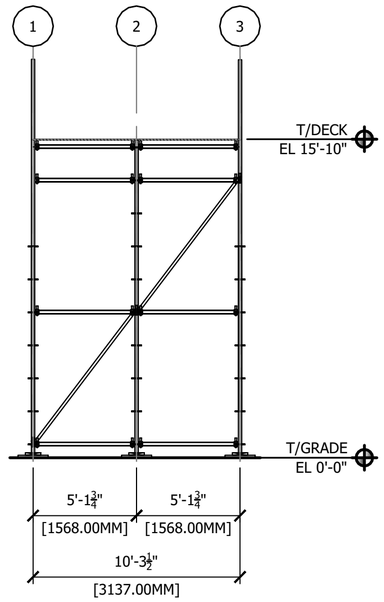

ELEVATION @ COLUMN LINE B & A

3/16" = 1'-0"



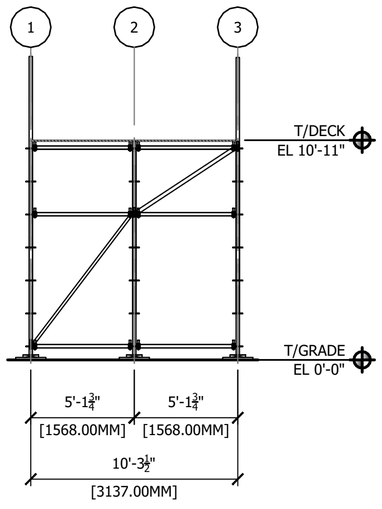

ELEVATION @ COLUMN LINE D & C

3/16" = 1'-0"



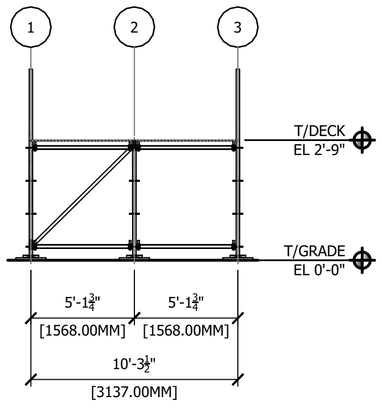

ELEVATION @ COLUMN LINE F & E

3/16" = 1'-0"




ELEVATION @ COLUMN LINE H & G

3/16" = 1'-0"




ELEVATION @ COLUMN LINE J & I

3/16" = 1'-0"

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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016

COPYRIGHT © 2016
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK–REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.

SNOW SLED HILL

PORTLAND, ME

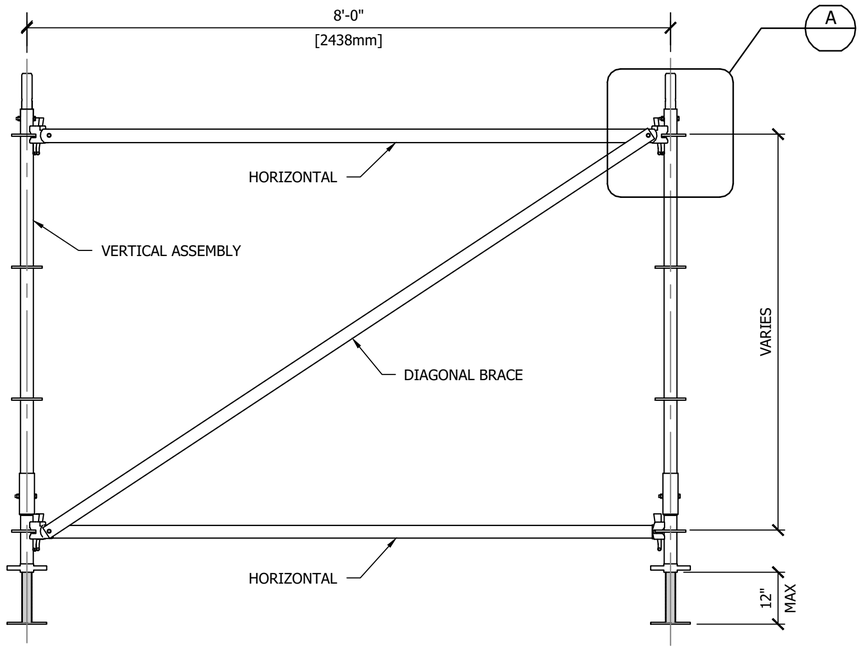
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

ELEVATIONS

S2.4

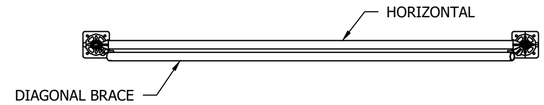



FRAME NOTES:
1. USE CRIBBING @ EA SCREW JACK LOCATION
2. USE TYPICAL BRACE SPACING AS DESCRIBED; ANY OTHER BRACING CONFIGURATION REQUIRES REVIEW AND APPROVAL BY SYSTEM ENGINEER.

BRACE IS REQUIRED IF EXPOSED THREAD LENGTH IS GREATER THAN 12"

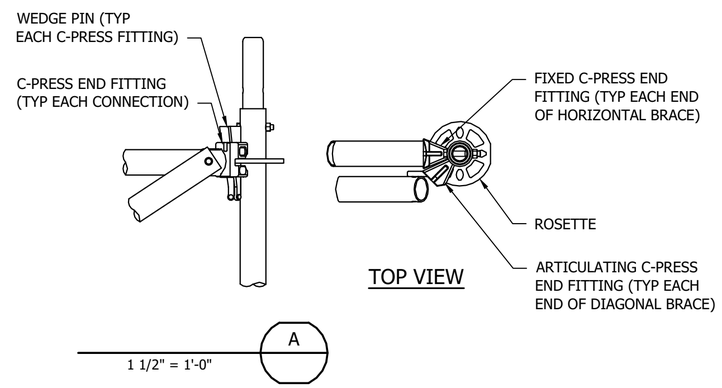
## TYPICAL FRAME ELEVATION

3/4" = 1'-0"



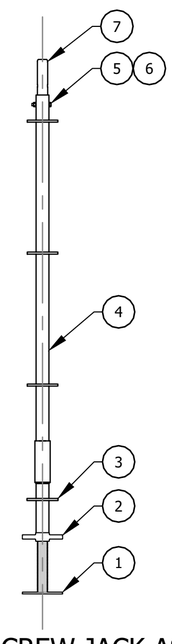

## TYPICAL FRAME PLAN

1/2" = 1'-0"




TOP VIEW

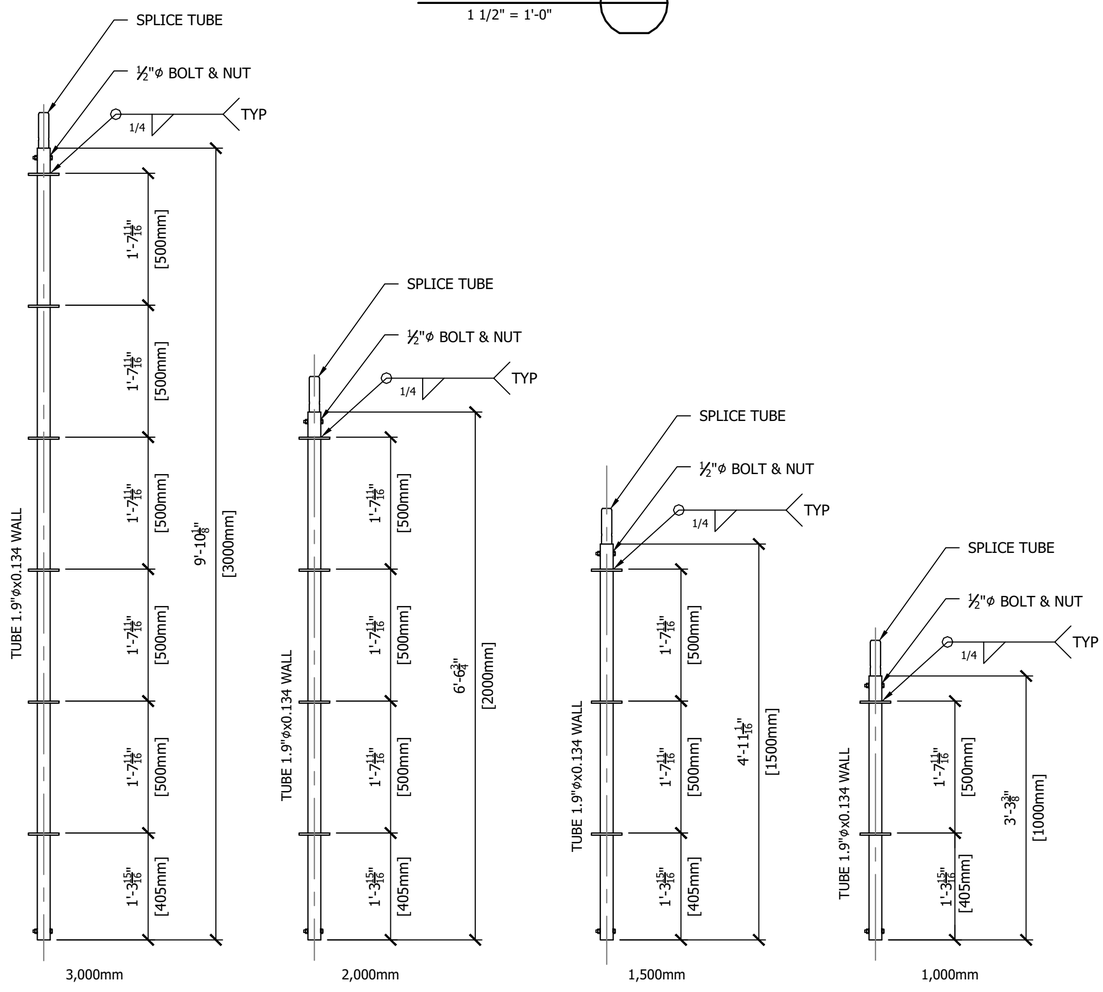
1 1/2" = 1'-0"




## VERTICAL w/ SCREW JACK ASSEMBLY

3/4" = 1'-0"

| PART LIST | |
|---|---|
| ITEM | DESCRIPTION |
| 1 | SCREW JACK |
| 2 | SCREW JACK HANDLE |
| 3 | START COLLAR |
| 4 | VERTICAL |
| 5 | 1/2" GRADE 5 BOLT |
| 6 | 1/2" GRADE 5 NUT |
| 7 | SPLICE TUBE |




## TYPICAL VERTICALS

3/4" = 1'-0"


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


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK–REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


SNOW SLED HILL

PORTLAND, ME

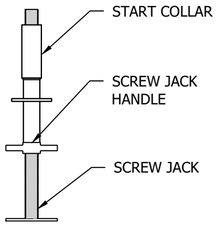
ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

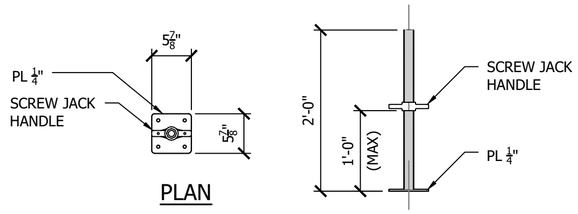
DETAILS

S3.1



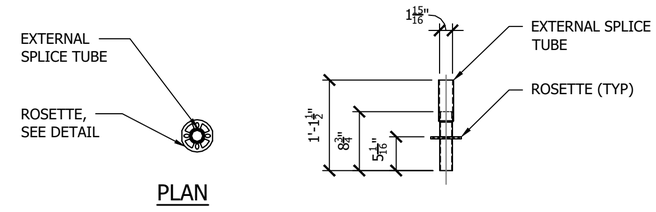

## SCREW JACK ASSEMBLY

3/4" = 1'-0"



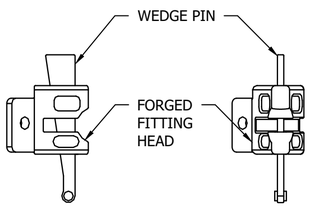

## SCREW JACK DETAIL

3/4" = 1'-0"

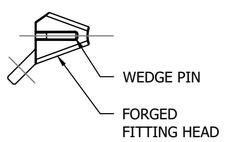



## START COLLAR DETAIL

3/4" = 1'-0"




ELEVATIONS

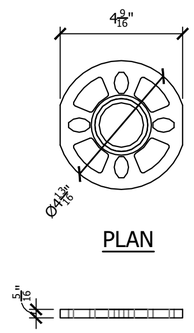



PLAN

DIAGONAL BRACE FITTING SHOWN, HORIZONTAL END FITTING SIMILAR

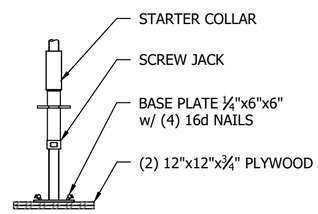
## TYPICAL C-PRESS FITTING

3" = 1'-0"



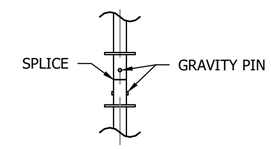

## ROSETTE DETAIL

3" = 1'-0"



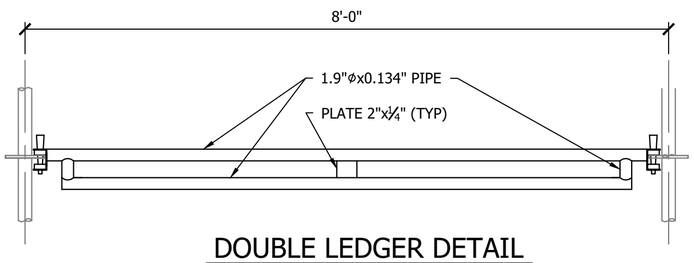

## SCAFFOLD BASE DETAIL

3/4" = 1'-0"



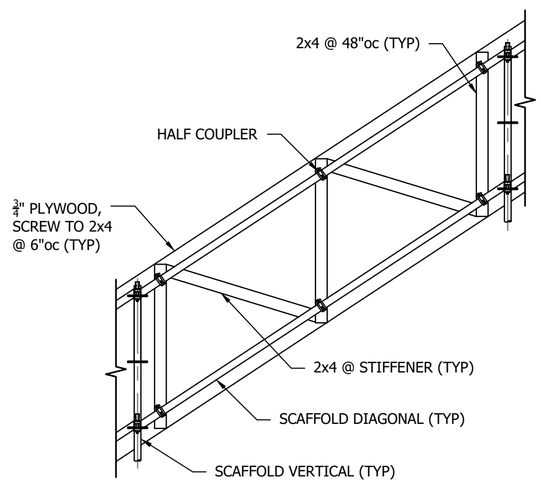

## VERTICAL SPLICE DETAIL

3/4" = 1'-0"




## DOUBLE LEDGER DETAIL

3/4" = 1'-0"




## HANDRAIL DETAIL

3/8" = 1'-0"


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


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK-REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


SNOW SLED HILL

PORTLAND, ME

ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| 1 | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

DETAILS

S3.2

## Scaffolding decks, access decks

Our scaffolding decks comply with the requirements of DIN EN 12811.

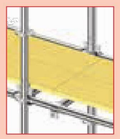
In the Layher system, depending on the type of application and scaffolding group but also in accordance with your working requirements and priorities, choose from decks made of hot-dip galvanized steel, aluminium, wood or an aluminium frame with plywood board. The load-bearing capacity of the overall system must be observed. All the decks in conjunction with the lift-off preventer additionally brace the scaffolding in the horizontal direction. Longitudinal ledgers and horizontal diagonal braces can be omitted at deck level. The claws of the Layher scaffolding decks slide easily during assembly into the U-/O-sections of the transverse ledgers, ensuring unbeatable speed of assembly. Decks with round ledger supports are especially suitable for abrasive-blasting work in order to avoid blasting residue deposits.

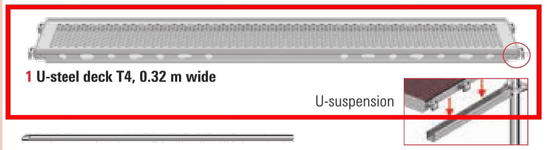
The ▸ **U-Xtra-N deck** is identical in construction with the robust deck, but is equipped with a glass-fibre-reinforced plastic plate. It is very weather-resistant: No rotting, no fungus growth, no split-open rivet holes. The breaking load of the plastic plate is about 3 times that of dry plywood. The surface has a proven anti-slip structure, which is very easy to clean. Plaster and dirt can be easily removed by using a high-pressure cleaner or a scraper.

Thanks to recesses in the webs, the optimized ▸ **Steel deck T4** offers not only savings on weight but also additional possibilities for use in conjunction with 33.7 m steel tubes, Ref. No. 4603.150 (see top picture). Thanks to optimization of the cap of the ▸ **Steel deck T4,** precision-fit decking above the rosette is possible (see bottom picture).

The ▸ **Stalu deck, 0.61 m wide,** is an extremely lightweight and durable aluminium deck with a sturdy, riveted steel cap.

When scaffolding planks are used, longitudinal ledgers are required at deck level, as are horizontal diagonal braces in accordance with structural strength requirements. The ▸ **O-board bearer,** Ref. No. 2615, is used for scaffolding plank joints which are not covered.





**1 U-steel deck T4, 0.32 m wide**

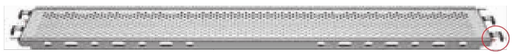
U-suspension





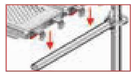
**2 Steel tube, dia. 33.7 mm**

**3 U-steel deck, 0.19 m wide**



**4 O-steel deck T9, 0.32 m wide**

O-suspension



**5 O-steel deck T9, 0.19 m wide**

**6 U-Xtra-N deck, 0.61 m wide**

**7 U-robust deck, 0.61 m wide**

**8 U-robust deck, 0.32 m wide**

**9 O-robust deck T9, 0.61 m wide**

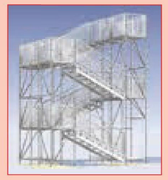
**10 U-stalu deck T9, 0.61 m wide**

## Stairway towers 500 and 750

Separate stringers and standard decking ensure variable widths for the stairway (1.09 m, 1.57 m, 2.07 m). This keeps the weight and the volume of the components low and permits a high proportion of standard Layher Allround material to be used. The 16-standard ground plan of the stairway towers 500 and 750 allows both temporary and stationary stairway tower structures of high loading capacity to be built.

The stairway tower 500 is used for preference in non-public areas, e.g. as access to the construction site, as non-public road crossings during construction work or as additional escape stairway tower. In special cases it also can be used in public areas.

▸ **U-stairway stringer 500:**
– Permissible load 5.0 kN/m²
with a stair flight width of 2.07 m.
– Stairway dimensions: Riser s = 20.0 cm
Tread a = 27.5 cm
Undercut u = 4.5 cm



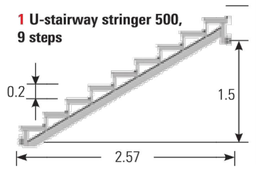
The stairway tower 750 with child protected guardrail is thanks to its riser measures mainly used in public areas and event constructions as access to stages and grandstands. Its features are the high load-bearing capacity and the reduced stairway riser.

▸ **U-stairway stringer 750:**
– Permissible load 7.5 kN/m²
with a stair flight width of 2.07 m.
– Stairway dimensions: Riser s = 16.6 cm
Tread a = 31.5 cm
Undercut u = 0.5 cm

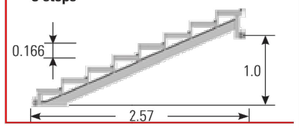
A height adjustment outside the 2.0 m or 1.5 m standard dimension is achieved with 5-step stairway stringers (1.0 m high). Alternatively, the stairway stringers 500 and 750 can also be combined in the stairway tower structure.

The stairway tower structures must be verified for each single structure as regards structural strength.

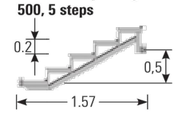
**1 U-stairway stringer 500, 9 steps**



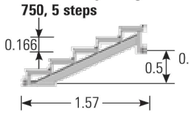

**2 U-stairway stringer 750, 8 steps**



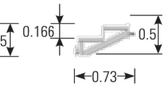

**3 U-stairway stringer 500, 5 steps**




**4 U-stairway stringer 750, 5 steps**

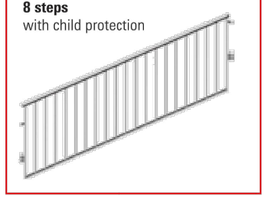



**5 U-stairway stringer 750, 2 steps**



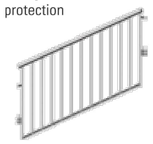

**6 Guardrail for stairs 500, 9 steps**
with child protection

**7 Guardrail for stairs 750, 8 steps**
with child protection



**8 Guardrail for stairs 500, 5 steps**
with child protection

**9 Guardrail for stairs 750, 5 steps** with child protection



**10 Guardrail for stairs 750, 2 steps** with child protection

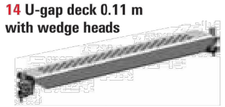
**11 Guardrail with child protection**

**12 U-ledger with gap cover**

**13 U-gap cover with claws**

**15 Guardrail fixing device**

**14 U-gap deck 0.11 m with wedge heads**



The gap deck and U-ledger with gap cover is needed at the start and end of a stairway to an intermediate landing (in conjunction with U-steel decks).


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


Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/23/16

STATE OF MAINE
DANIEL J. CLARK
No. 12873
LICENSED PROFESSIONAL ENGINEER
11/22/2016


COPYRIGHT © 2016
THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF CLARK–REDER ENGINEERING, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE COPIED OR USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED, WITHOUT THE WRITTEN CONSENT OF CLARK REDER ENGINEERING, INC.


SNOW SLED HILL

PORTLAND, ME

ISSUE/REVISIONS

| | REVISION DESCRIPTION - DATE |
|---|---|
| | |
| | |
| | |
| | |
| | |

DATE: 11/01/2016
CRE PROJECT NO: 16.612.18(1)
DRAWN BY: JMR / TWL

DETAILS

S3.3