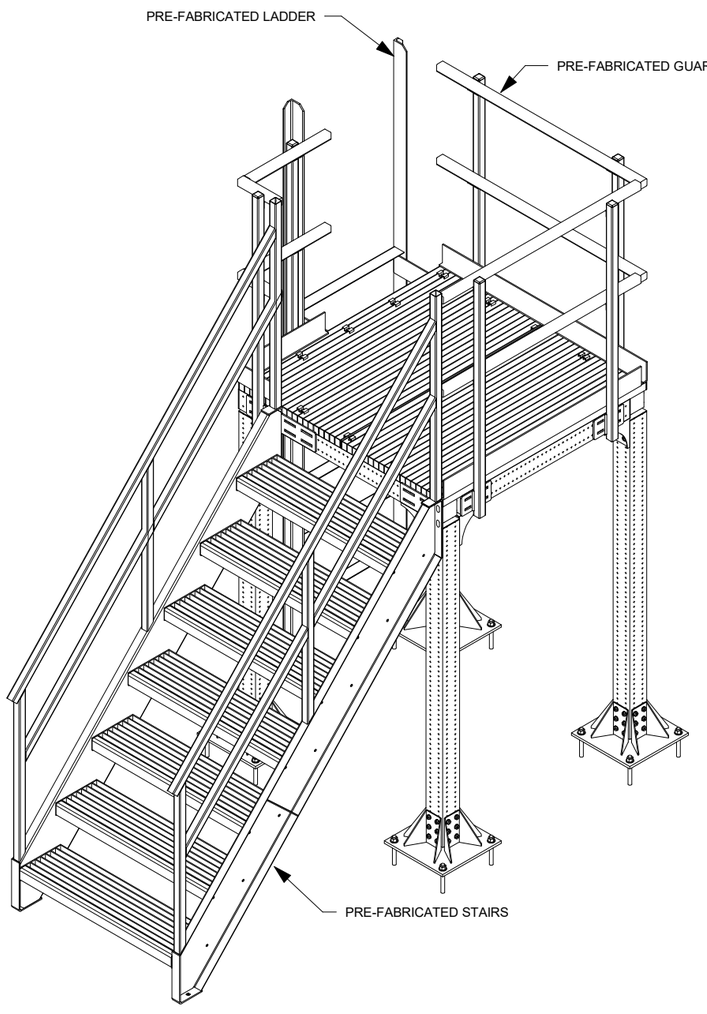


1 ISOMETRIC VIEW
NTS

# BILL OF MATERIALS

| MARK | QTY | ITEM NUMBER | PRODUCT DESCRIPTION | LENGTH (mm) | LENGTH (in) | CUT TYPE |
|---|---|---|---|---|---|---|
| 1 | 2 | 2268369 | I.-Girder MT-90 OC | 1200 | 3' - 11 1/4" | HPR |
| 2 | 4 | 2268369 | I.-Girder MT-90 OC | 1650 | 5' - 4 15/16" | HPR |
| 3 | 2 | 2268369 | I.-Girder MT-90 OC | 1000 | 3' - 3 3/8" | HPR |
| 4 | 4 | 2272103 | 4-hole Baseplate MT-B-GL-O4 OC | | | |
| 5 | 8 | 2272069 | Adjustable Angle Connector MT-C-GL A OC | | | |
| 6 | 160 | 2272084 | Thread Forming Bolt MT-TFB OC | | | |
| 7 | 16 | Special | Fastener - Grating Clip | | | |
| 8 | 16 | Special | Screw Grating Fastener (2TEK3SS) | | | |
| 9 | 2 | Special | Serrated 19W4 (1 1/2" x 1/8") HDG Grating | 1219 | 4' - 0" | |
| 10 | 12 | 2273699 | Girder End Cap MT-EC-90 | | | |
| 11 | 16 | 2210278 | STUD ANCHOR KB-TZ2 5/8" x 4 3/4" SS304 | | | |

**DESIGN BASIS:**

A. APPLICABLE CODE:
(1) INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

B. VERTICAL LOADS:
(1) DEAD LOAD: 10 PSF (GRATING)
(2) LIVE LOAD: 60 PSF

C. LATERAL LOADS:
(1) WIND CRITERIA: PER ASCE 7-16
HEIGHT ABOVE GROUND (z): 0 FT
ULTIMATE DESIGN WIND SPEED: 120 MPH
WIND EXPOSURE: C

**ANCHOR NOTE(S):**

A. EFFECTIVE EMBEDMENT DEPTH (h/eff) FOR 5/8" DIA. ANCHOR SHALL BE 2 3/4". INSTALL ANCHOR PER ESR- 4266 AND MANUFACTURERS IFU'S.
B. MINIMUM CONCRETE SLAB THICKNESS SHALL BE 5". MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE, AT THE TIME OF INSTALLATION, SHALL BE 3,000 PSI. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 5". CONCRETE TO BE DESIGNED BY OTHERS.
C. CONTRACTOR IS RESPONSIBLE FOR DRILLING HOLE FOR INSTALLATION OF CONCRETE ANCHOR. IF REINFORCEMENT IS ENCOUNTERED, CONTACT EOR FOR INSTRUCTION BEFORE PROCEEDING.



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
|---|---|---|---|---|
| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
| | | | | |
| | | | | |

PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 1 - 4'Wx4'Dx6'H

SHEET DESCRIPTION:
ISOMETRIC AND BOM

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
|---|---|---|---|
| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**
PROJECT - - JOB 01 - SHEET 01

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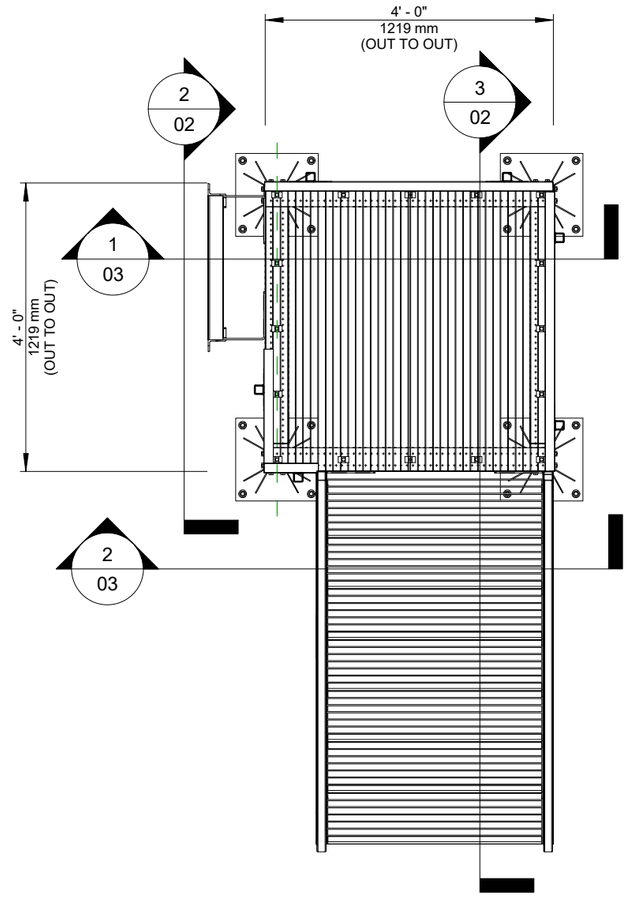
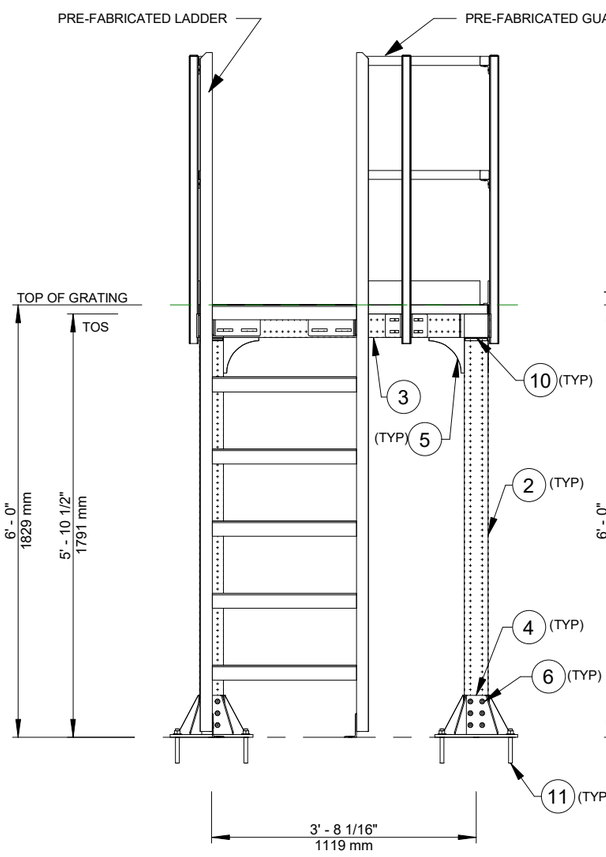
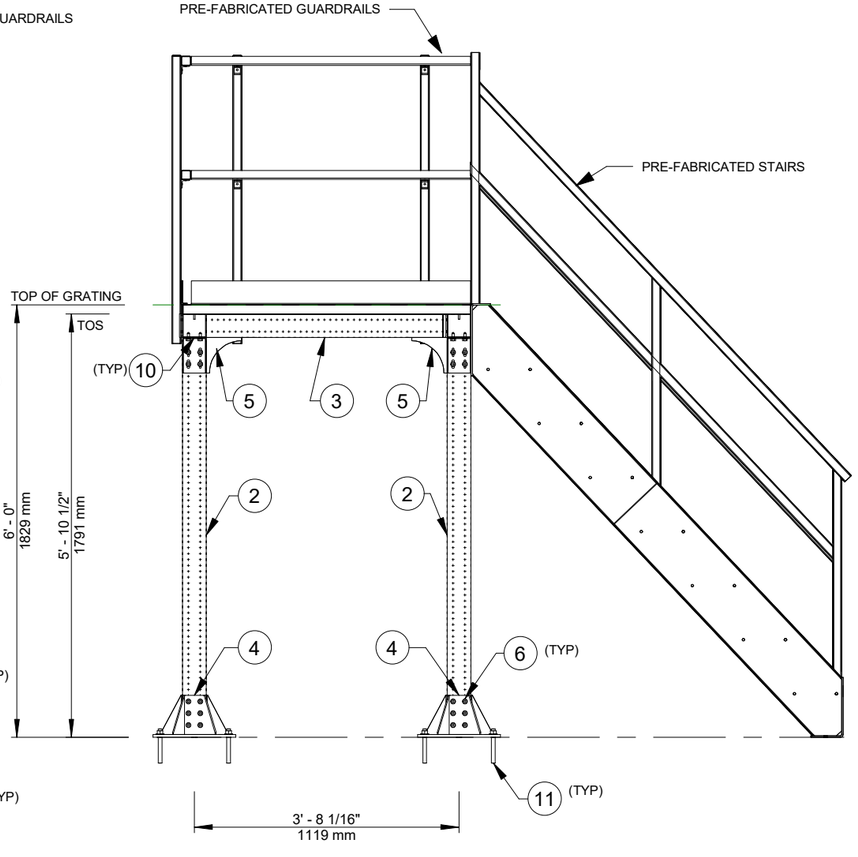



1 PLAN
1/2" = 1'-0"




2 SECTION 1
1/2" = 1'-0"




3 SECTION 2
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 1 - 4'Wx4'Dx6'H

SHEET DESCRIPTION:
PLAN AND SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
|---|---|---|---|
| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:
PROJECT - - TOR 01 - SHEET 02

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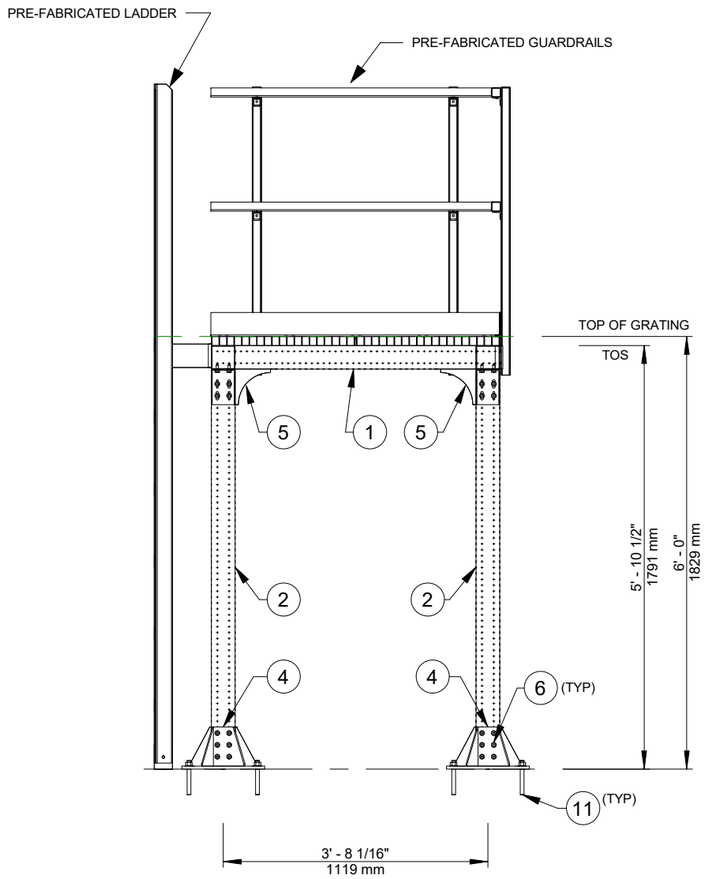
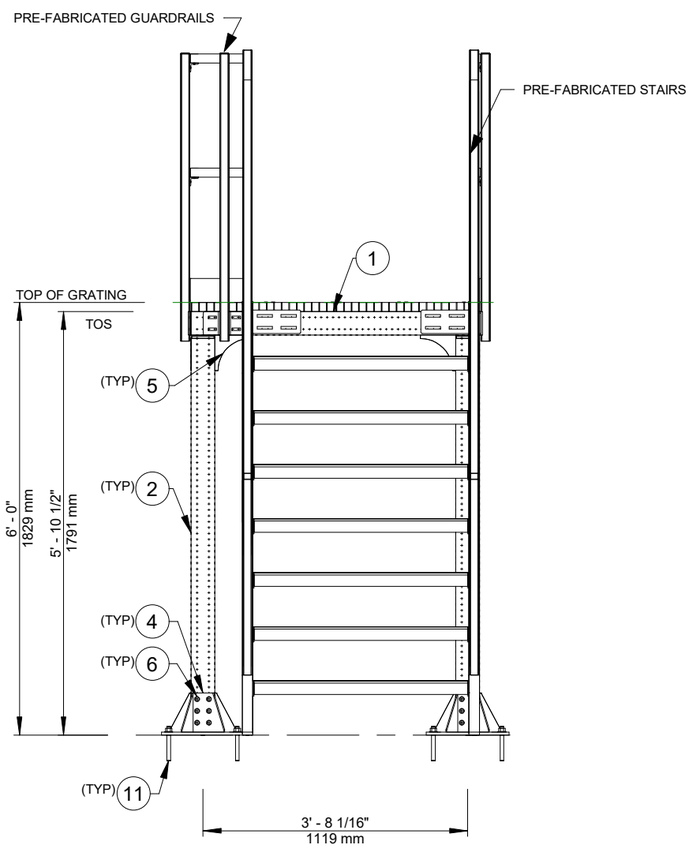



1 SECTION 3
1/2" = 1'-0"




2 SECTION 4
1/2" = 1'-0"

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REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 1 - 4'Wx4'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:

| PROJECT | | JOB | | SHEET |
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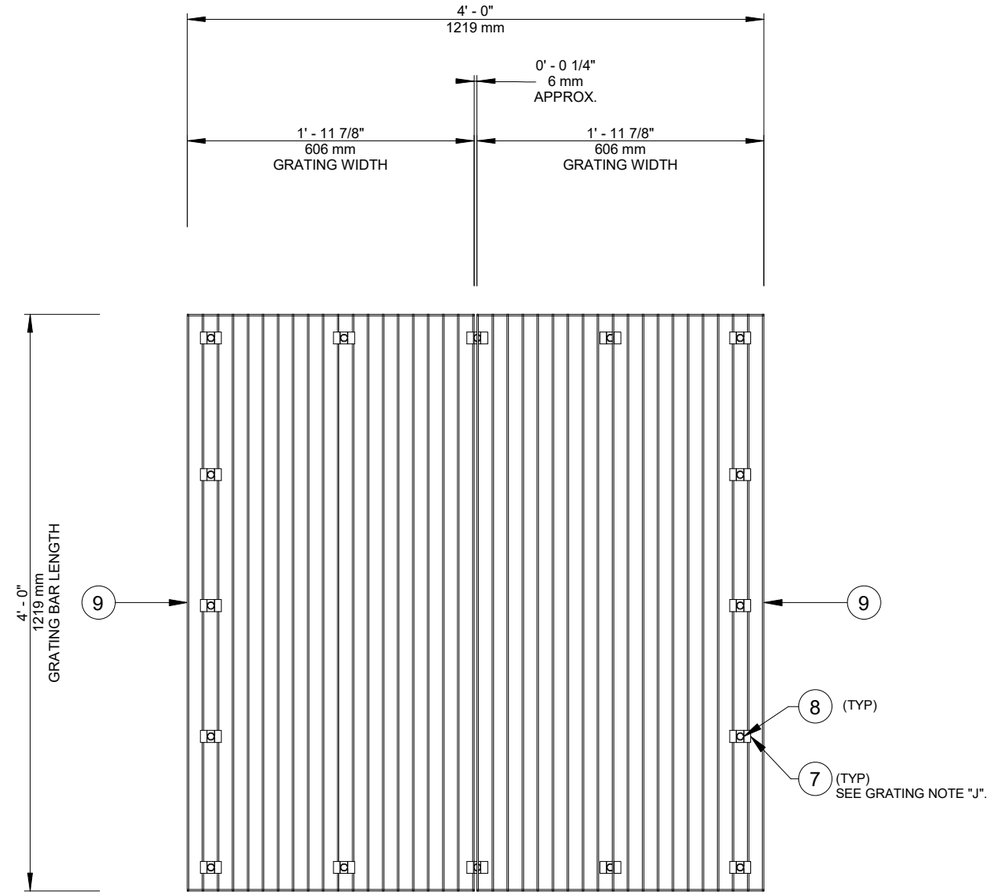
# GRATING - BOM

| MARK | ITEM NUMBER | Count | DESCRIPTION |
|---|---|---|---|
| 9 | Special | 2 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |




1 GRATING PLAN
1" = 1'-0"

**BAR GRATING NOTE(S):**

A. ALL STEEL GRATING SHALL BE GALVANIZED WELDED BAR GRATING WITH 1/8" (MIN.) THICK BEARING BARS SPACED AT 1-3/16" O.C. MAX AND CROSS BARS AT 4" O.C. MAX.
B. ALL GRATING SHALL BE SECURED TO BEARING SUPPORT USING GRATING CLIPS AND SCREWS AS SHOWN ON THE GRATING PLANS.
C. DEPTH AND THICKNESS OF THE GRATING SHALL BE AS INDICATED IN THE B.O.M.
D. ALL MANUFACTURING AND FABRICATION TOLERANCE AND ALL WELDING SPECIFICATIONS MUST COMPLY WITH CURRENT NAAMM METAL BAR GRATING MANUALS.
E. TOLERANCE ± 1/4" UNLESS OTHERWISE NOTED.
F. GALVANIZED PER ASTM A123.
G. BANDING TO BE ADDED AT TRIMMED AREAS.
H. THE GIVEN INTERIOR DIMENSIONS ARE FOR THE AVOIDANCE OF OBSTACLES. FOR THE EASE OF CONSTRUCTION, THE GRATING MANUFACTURER MAY ADAPT A DIMENSION TO THE NEAREST BANDING BAR UNLESS OTHERWISE NOTED.
J. GRATING CLIPS TO BE INSTALLED AT 12" AT EACH GIRDER. WITH A MINIMUM OF 2 CLIPS, PER GRATING PANEL, AT EACH GIRDER



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 1 - 4'Wx4'Dx6'H

SHEET DESCRIPTION:
GRATING

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

| PROJECT | JOB | SHEET |
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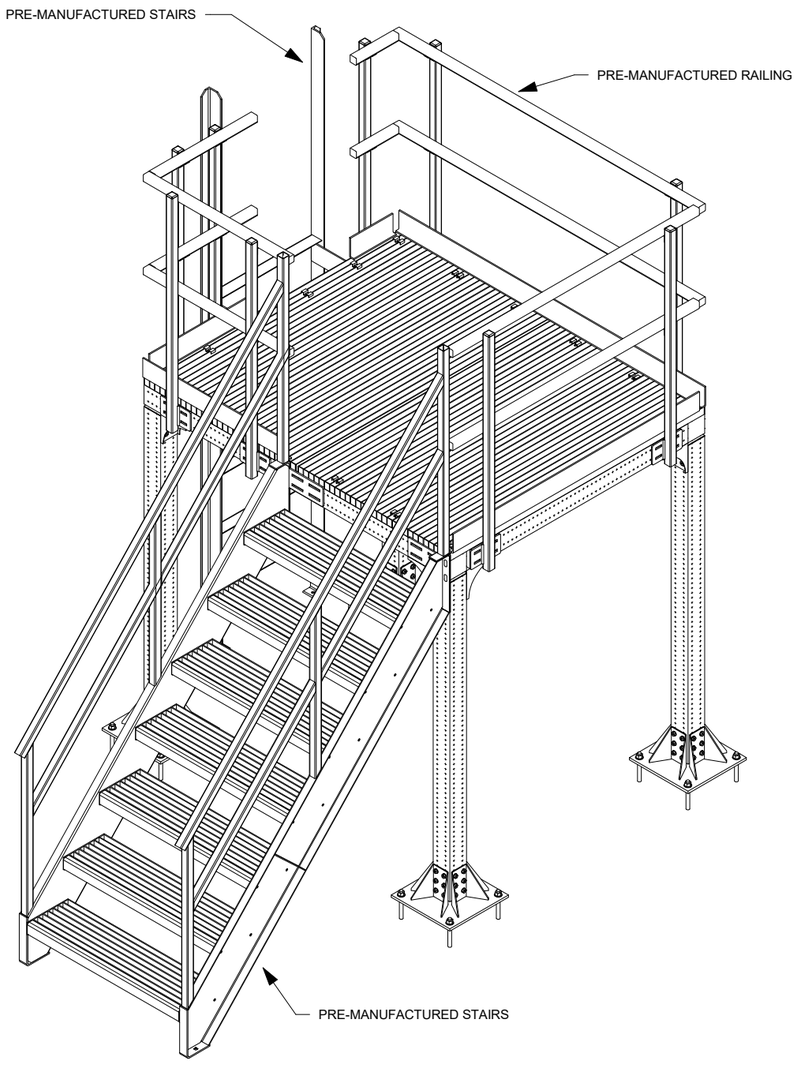


1 ISOMETRIC VIEW
NTS

# BILL OF MATERIALS

| MARK | QTY | ITEM NUMBER | PRODUCT DESCRIPTION | LENGTH (mm) | LENGTH (in) | CUT TYPE |
|---|---|---|---|---|---|---|
| 1 | 2 | 2268369 | I.-Girder MT-90 OC | 1825 | 5' - 11 7/8" | HPR |
| 2 | 4 | 2268369 | I.-Girder MT-90 OC | 1650 | 5' - 4 15/16" | HPR |
| 3 | 2 | 2268369 | I.-Girder MT-90 OC | 1300 | 4' - 3 3/16" | HPR |
| 4 | 4 | 2272103 | 4-hole Baseplate MT-B-GL-O4 OC | | | |
| 5 | 8 | 2272069 | Adjustable Angle Connector MT-C-GL A OC | | | |
| 6 | 160 | 2272084 | Thread Forming Bolt MT-TFB OC | | | |
| 7 | 20 | Special | Fastener - Grating Clip | | | |
| 8 | 20 | Special | Screw Grating Fastener (2TEK3SS) | | | |
| 9 | 2 | Special | Serrated 19W4 (1 1/2" x 1/8") HDG Grating | 1524 | 5' - 0" | |
| 10 | 12 | 2273699 | Girder End Cap MT-EC-90 | | | |
| 11 | 16 | 2210278 | STUD ANCHOR KB-TZ2 5/8" x 4 3/4" SS304 | | | |

**DESIGN BASIS:**

A. APPLICABLE CODE:
(1) INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

B. VERTICAL LOADS:
(1) DEAD LOAD: 10 PSF (GRATING)
(2) LIVE LOAD: 60 PSF

C. LATERAL LOADS:
(1) WIND CRITERIA: PER ASCE 7-16
HEIGHT ABOVE GROUND (z): 0 FT
ULTIMATE DESIGN WIND SPEED: 120 MPH
WIND EXPOSURE: C

**ANCHOR NOTE(S):**

A. EFFECTIVE EMBEDMENT DEPTH (h/eff) FOR 5/8" DIA. ANCHOR SHALL BE 2 3/4". INSTALL ANCHOR PER ESR- 4266 AND MANUFACTURERS IFU'S.
B. MINIMUM CONCRETE SLAB THICKNESS SHALL BE 5". MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE, AT THE TIME OF INSTALLATION, SHALL BE 3,000 PSI. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 5". CONCRETE TO BE DESIGNED BY OTHERS.
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/14/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 2 - 6'Wx5'Dx6'H

SHEET DESCRIPTION:
ISOMETRIC AND BOM

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
|---|---|---|---|
| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

| PROJECT | | EOR | | SHEET |
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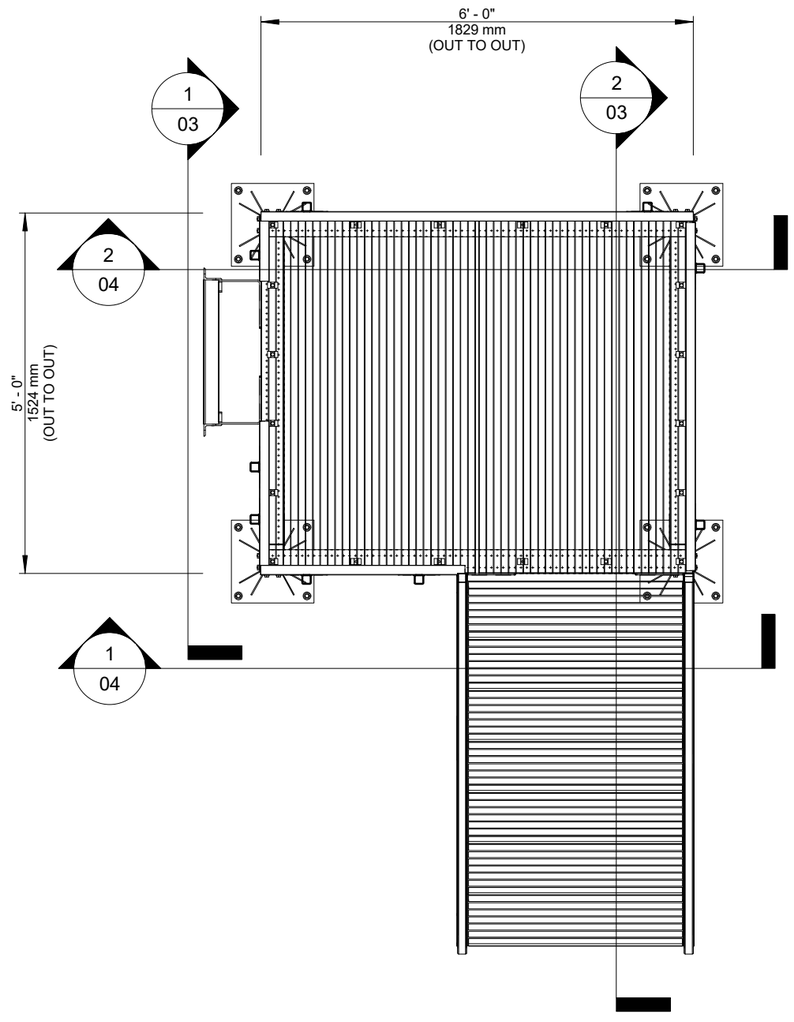


1 PLAN
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/14/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 2 - 6'Wx5'Dx6'H

SHEET DESCRIPTION:
PLAN

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
|---|---|---|---|
| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

| PROJECT | | TOR | | SHEET |
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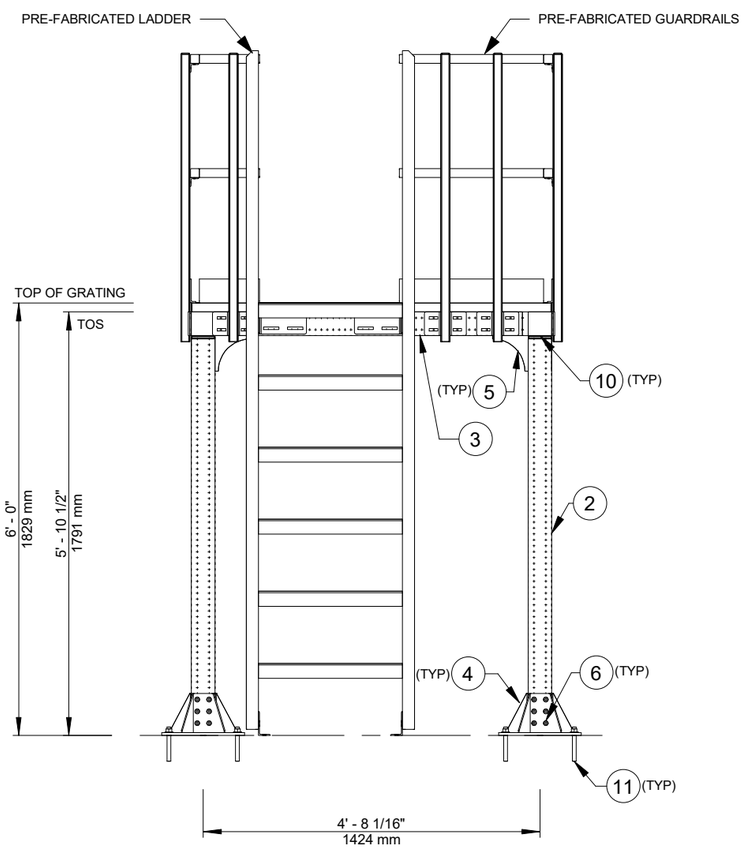
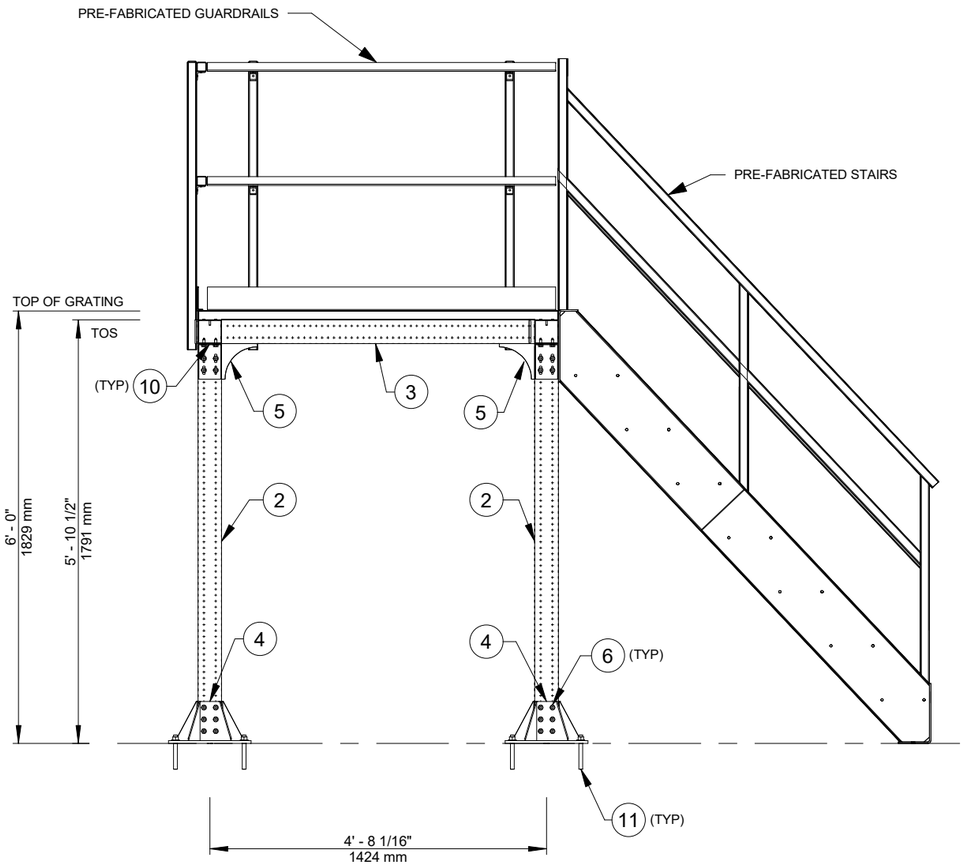



1 SECTION 1
1/2" = 1'-0"




2 SECTION 2
1/2" = 1'-0"

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| NO: | DESCRIPTION: | DRW | CHK | DATE: |
|---|---|---|---|---|
| A | ISSUED FOR REVIEW | IDP | GAB | 06/14/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 2 - 6'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:
PROJECT - JOB - 02 - SHEET 03

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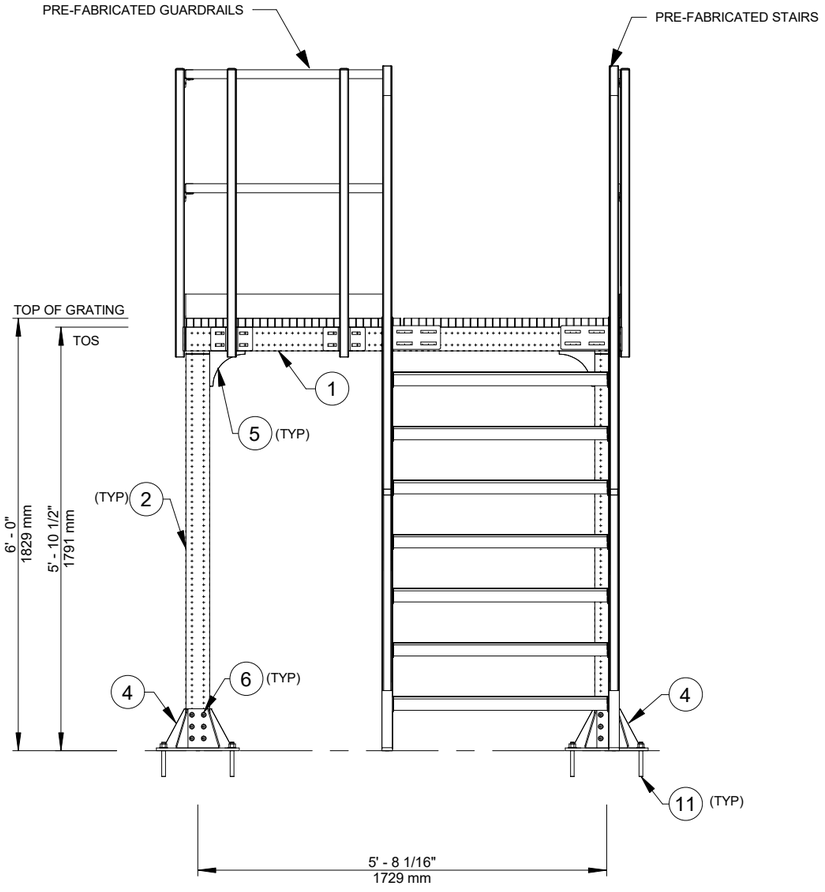
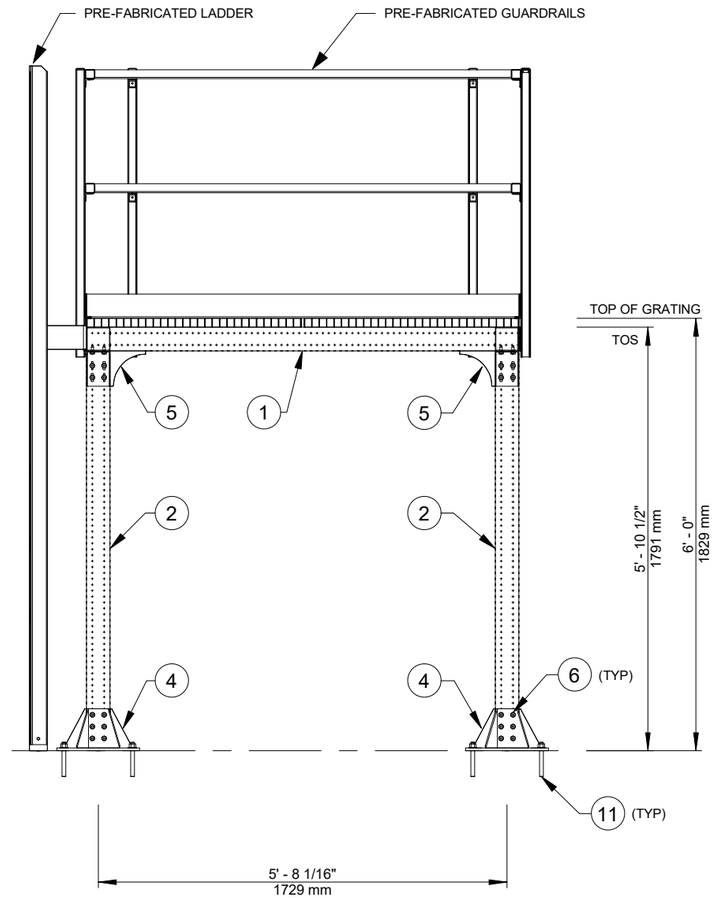



1 SECTION 3
1/2" = 1'-0"




2 SECTION 4
1/2" = 1'-0"

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 2 - 6'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:

| PROJECT | | JOB | | SHEET |
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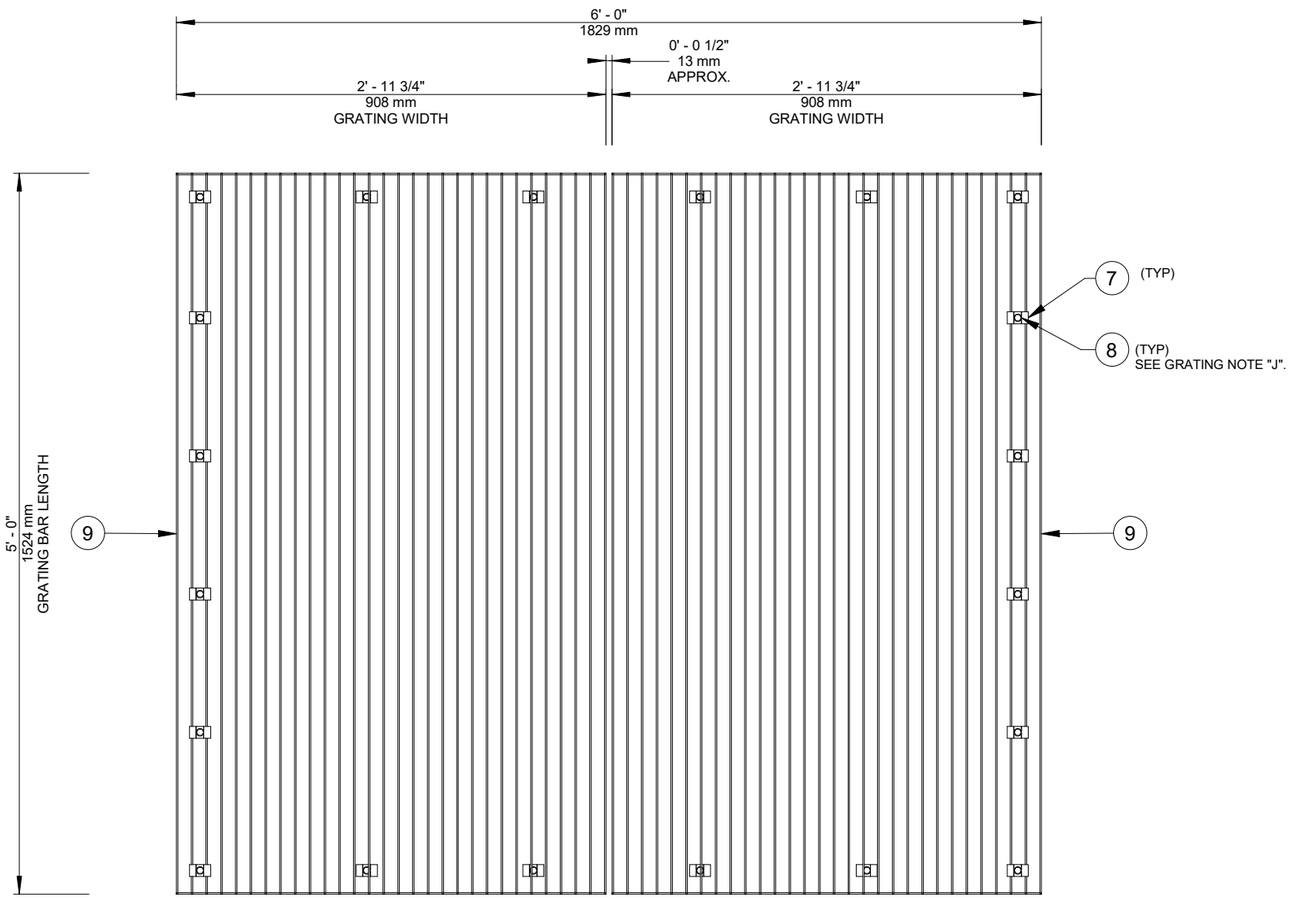
# GRATING - BOM

| MARK | ITEM NUMBER | Count | DESCRIPTION |
|---|---|---|---|
| 9 | Special | 2 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |




1 GRATING PLAN
1" = 1'-0"

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E. TOLERANCE ± 1/4" UNLESS OTHERWISE NOTED.
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REVISION HISTORY

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 2 - 6'Wx5'Dx6'H

SHEET DESCRIPTION:
GRATING

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

| PROJECT | | TOR | | SHEET |
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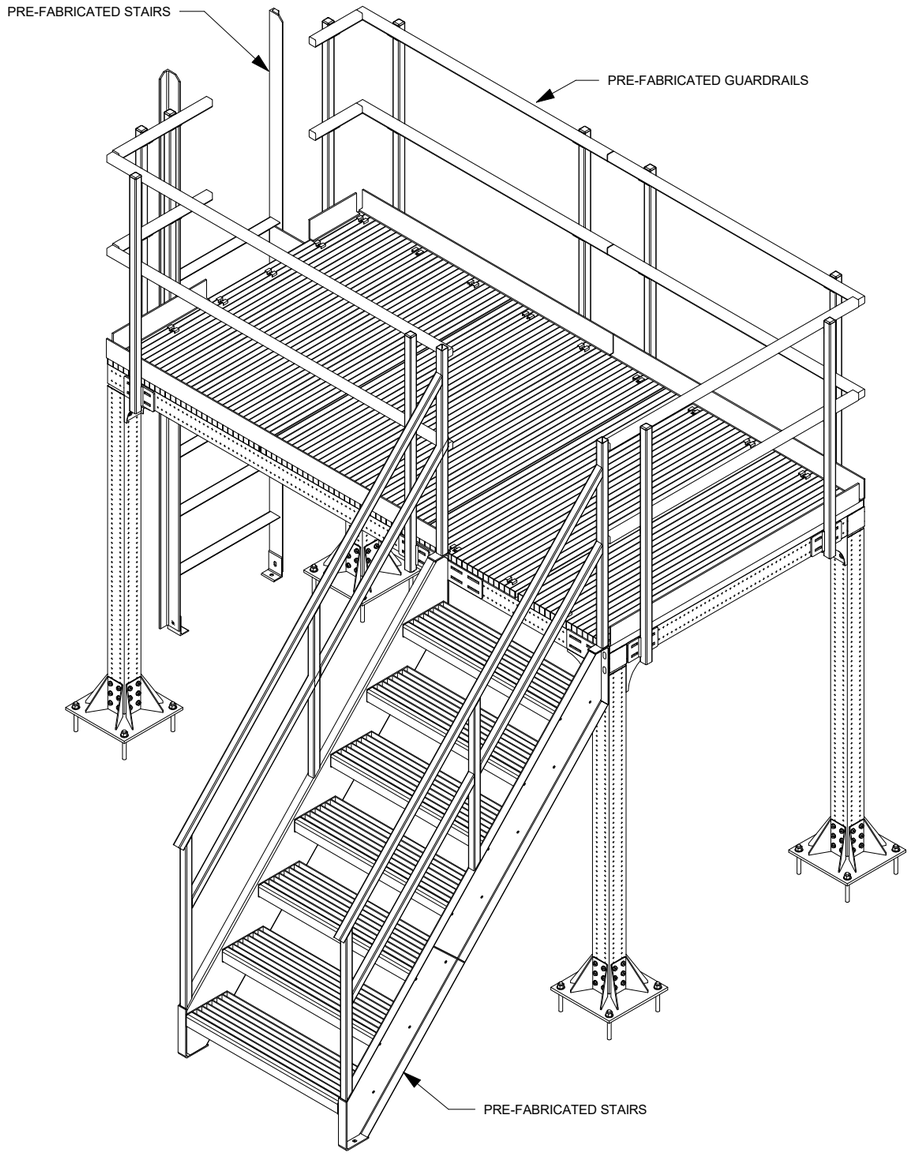


1 ISOMETRIC VIEW
NTS

# BILL OF MATERIALS

| MARK | QTY | ITEM NUMBER | PRODUCT DESCRIPTION | LENGTH (mm) | LENGTH (in) | CUT TYPE |
|---|---|---|---|---|---|---|
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| 3 | 2 | 2268369 | I.-Girder MT-90 OC | 1300 | 4' - 3 3/16" | HPR |
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| 5 | 8 | 2272069 | Adjustable Angle Connector MT-C-GL A OC | | | |
| 6 | 160 | 2272084 | Thread Forming Bolt MT-TFB OC | | | |
| 7 | 28 | Special | Fastener - Grating Clip | | | |
| 8 | 28 | Special | Screw Grating Fastener (2TEK3SS) | | | |
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**ANCHOR NOTE(S):**

A. EFFECTIVE EMBEDMENT DEPTH (h/eff) FOR 5/8" DIA. ANCHOR SHALL BE 2 3/4". INSTALL ANCHOR PER ESR- 4266 AND MANUFACTURERS IFU'S.

B. MINIMUM CONCRETE SLAB THICKNESS SHALL BE 5". MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE, AT THE TIME OF INSTALLATION, SHALL BE 3,000 PSI. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 5". CONCRETE TO BE DESIGNED BY OTHERS.

C. CONTRACTOR IS RESPONSIBLE FOR DRILLING HOLE FOR INSTALLATION OF CONCRETE ANCHOR. IF REINFORCEMENT IS ENCOUNTERED, CONTACT EOR FOR INSTRUCTION BEFORE PROCEEDING.



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
|---|---|---|---|---|
| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 3 - 10'Wx5'Dx6'H

SHEET DESCRIPTION:
ISOMETRIC AND BOM

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**
PROJECT - JOB - 03 - SHEET 01

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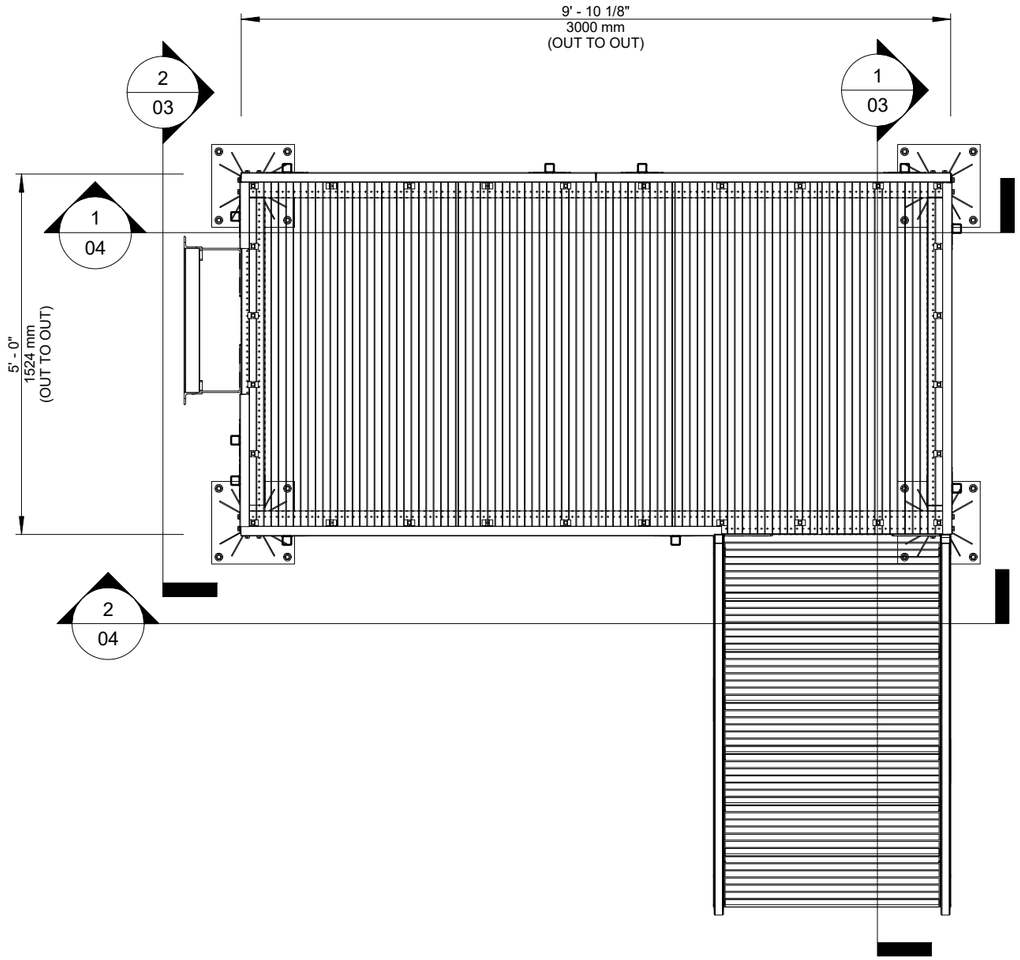


1 PLAN
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

REVISION HISTORY

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 3 - 10'Wx5'Dx6'H

SHEET DESCRIPTION:
PLAN

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PAPER SIZE: ANSI B

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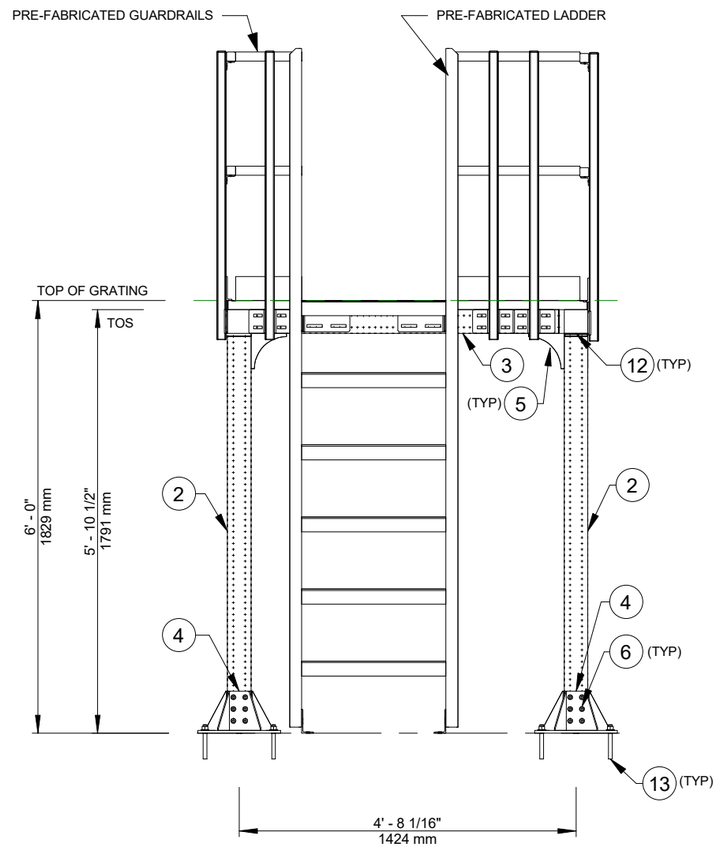
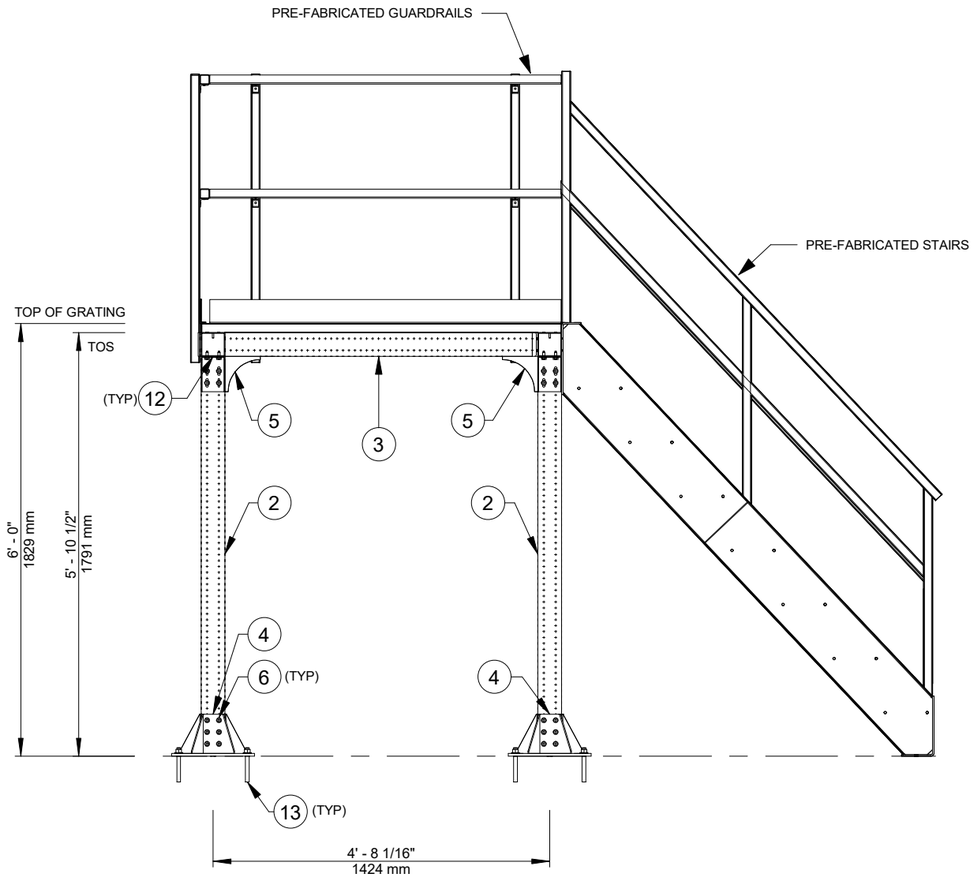



2 SECTION 1
1/2" = 1'-0"




1 SECTION 2
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 3 - 10'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

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PROJECT NUMBER: PROJECT - JOB - 03 - SHEET 03

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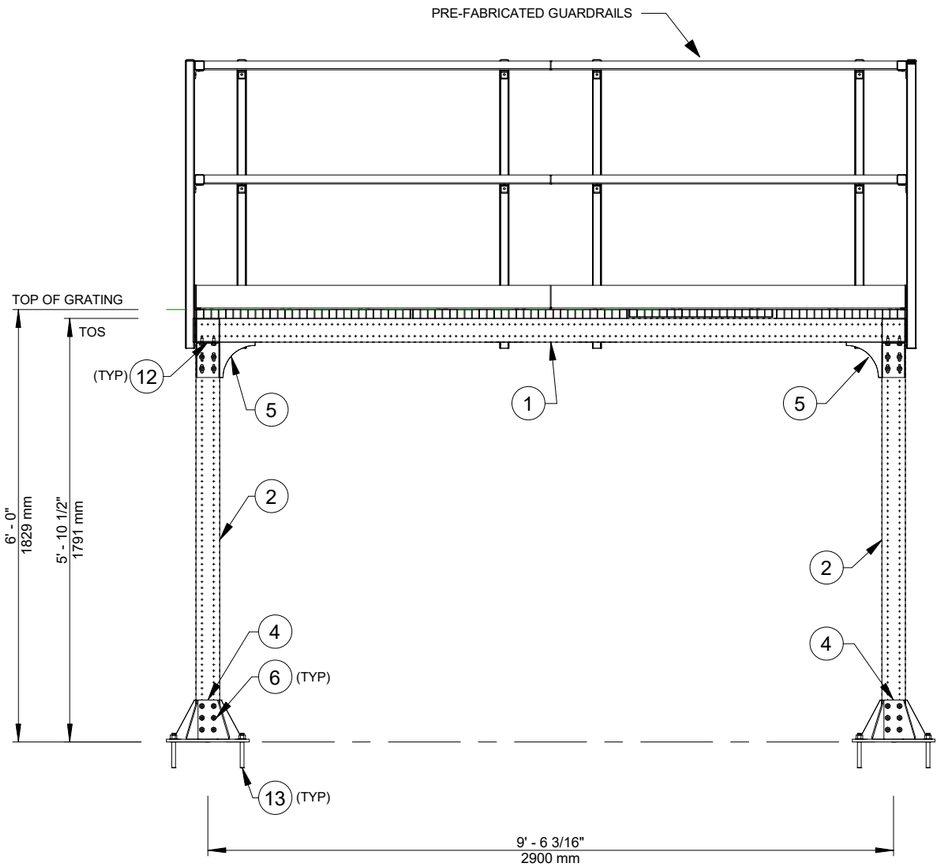
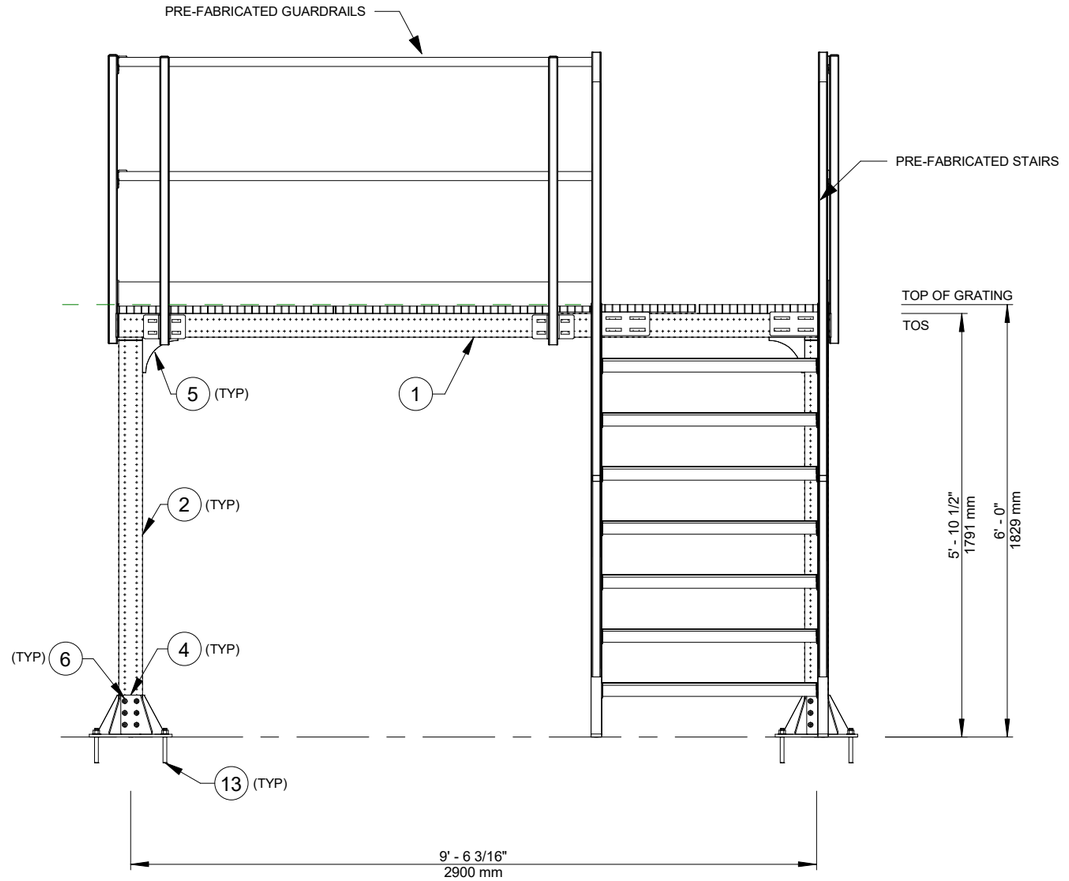



1 SECTION 3
1/2" = 1'-0"




2 SECTION 4
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
|---|---|---|---|---|
| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 3 - 10'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:

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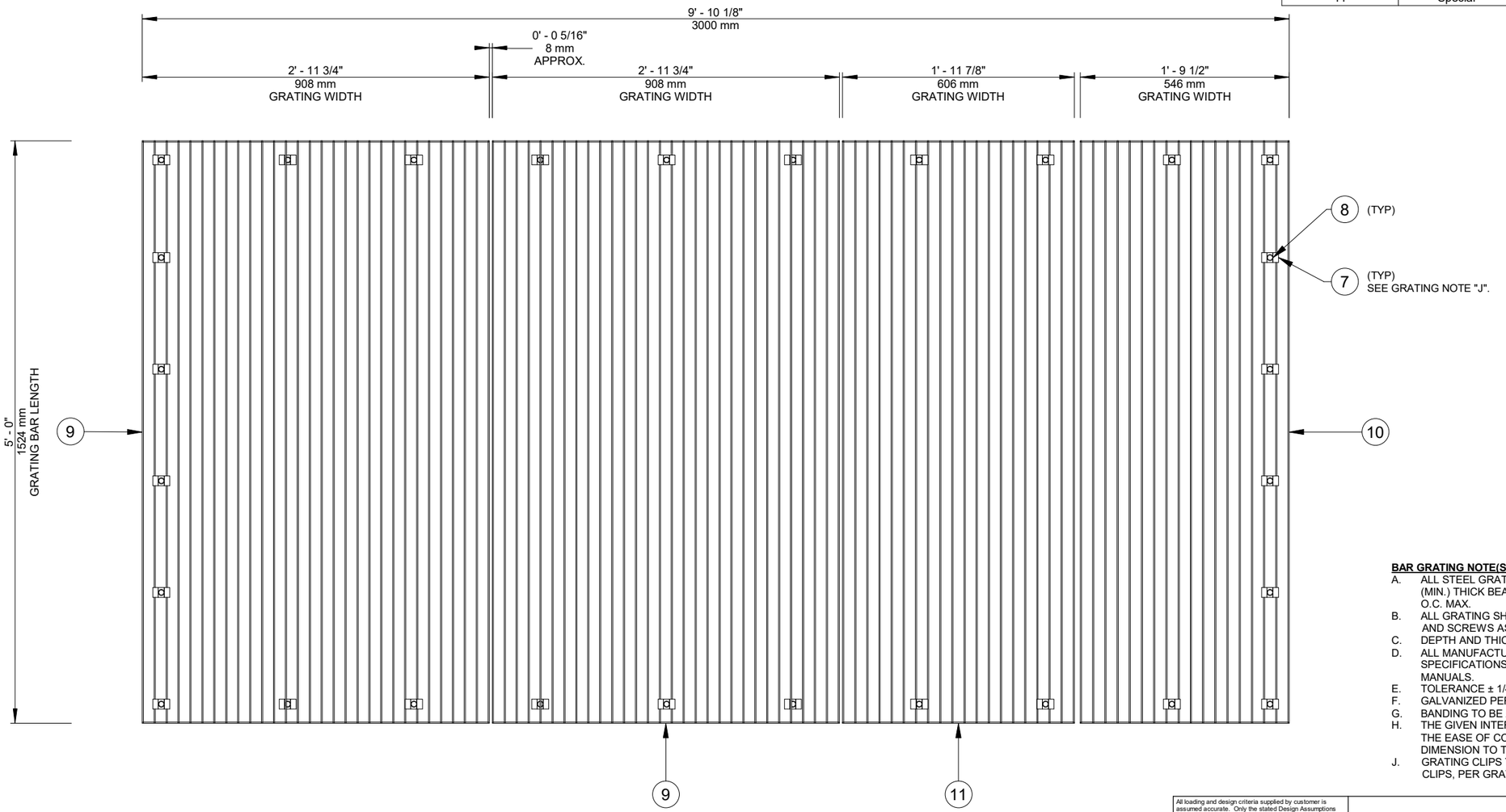
# GRATING - BOM

| MARK | ITEM NUMBER | Count | DESCRIPTION |
|---|---|---|---|
| 9 | Special | 2 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |
| 10 | Special | 1 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |
| 11 | Special | 1 | Serrated 19W4 (1 1/4" x 1/8") HDG Grating |




1 GRATING PLAN
1" = 1'-0"

**BAR GRATING NOTE(S):**

A. ALL STEEL GRATING SHALL BE GALVANIZED WELDED BAR GRATING WITH 1/8" (MIN.) THICK BEARING BARS SPACED AT 1-3/16" O.C. MAX AND CROSS BARS AT 4" O.C. MAX.
B. ALL GRATING SHALL BE SECURED TO BEARING SUPPORT USING GRATING CLIPS AND SCREWS AS SHOWN ON THE GRATING PLANS.
C. DEPTH AND THICKNESS OF THE GRATING SHALL BE AS INDICATED IN THE B.O.M.
D. ALL MANUFACTURING AND FABRICATION TOLERANCE AND ALL WELDING SPECIFICATIONS MUST COMPLY WITH CURRENT NAAMM METAL BAR GRATING MANUALS.
E. TOLERANCE ± 1/4" UNLESS OTHERWISE NOTED.
F. GALVANIZED PER ASTM A123.
G. BANDING TO BE ADDED AT TRIMMED AREAS.
H. THE GIVEN INTERIOR DIMENSIONS ARE FOR THE AVOIDANCE OF OBSTACLES. FOR THE EASE OF CONSTRUCTION, THE GRATING MANUFACTURER MAY ADAPT A DIMENSION TO THE NEAREST BANDING BAR UNLESS OTHERWISE NOTED.
J. GRATING CLIPS TO BE INSTALLED AT 12" AT EACH GIRDER. WITH A MINIMUM OF 2 CLIPS, PER GRATING PANEL, AT EACH GIRDER



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 3 - 10'Wx5'Dx6'H

SHEET DESCRIPTION:
GRATING

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

| PROJECT | | JOB | | SHEET |
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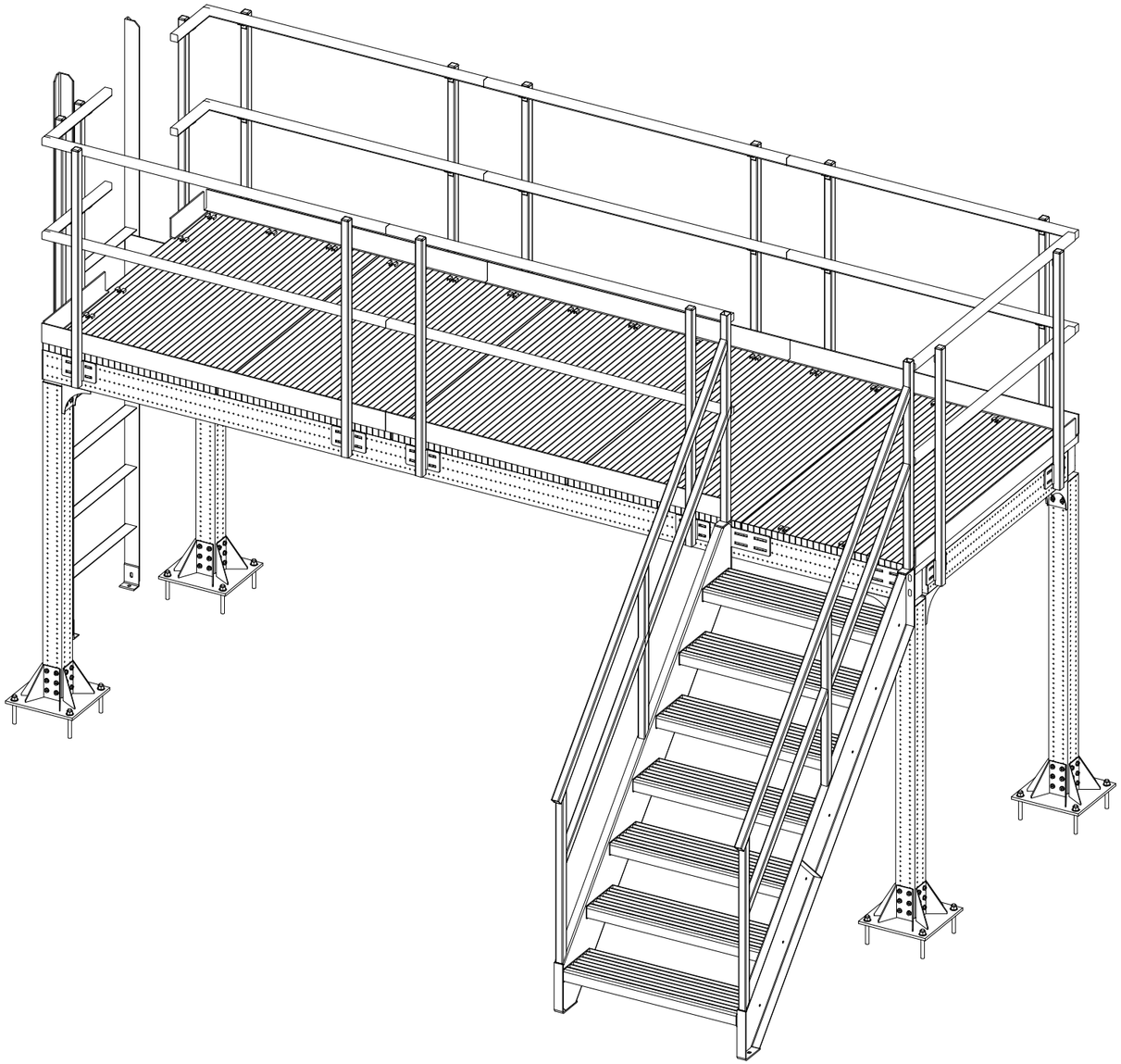

1 ISOMETRIC VIEW
NTS

# BILL OF MATERIALS

| MARK | QTY | ITEM NUMBER | PRODUCT DESCRIPTION | LENGTH (mm) | LENGTH (in) | CUT TYPE |
|---|---|---|---|---|---|---|
| 1 | 2 | 2268491 | I.-Girder MT-100 OC | 4551 | 14' - 11 3/16" | HPR |
| 2 | 4 | 2268369 | I.-Girder MT-90 OC | 1600 | 5' - 3" | HPR |
| 3 | 2 | 2268491 | I.-Girder MT-100 OC | 1300 | 4' - 3 3/16" | HPR |
| 4 | 4 | 2272103 | 4-hole Baseplate MT-B-GL-O4 OC | | | |
| 5 | 8 | 2272069 | Adjustable Angle Connector MT-C-GL A OC | | | |
| 6 | 160 | 2272084 | Thread Forming Bolt MT-TFB OC | | | |
| 7 | 38 | Special | Fastener - Grating Clip | | | |
| 8 | 38 | Special | Screw Grating Fastener (2TEK3SS) | | | |
| 9 | 4 | 2273699 | Girder End Cap MT-EC-90 | | | |
| 10 | 8 | 2273700 | Girder End Cap MT-EC-100 | | | |
| 11 | 5 | Special | Serrated 19W4 (1 1/2" x 1/8") HDG Grating | 1524 | 5' - 0" | |
| 12 | 16 | 2210278 | STUD ANCHOR KB-TZ2 5/8" x 4 3/4" SS304 | | | |

**DESIGN BASIS:**

A. APPLICABLE CODE:
(1) INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

B. VERTICAL LOADS:
(1) DEAD LOAD: 10 PSF (GRATING)
(2) LIVE LOAD: 60 PSF

C. LATERAL LOADS:
(1) WIND CRITERIA: PER ASCE 7-16
HEIGHT ABOVE GROUND (z): 0 FT
ULTIMATE DESIGN WIND SPEED: 120 MPH
WIND EXPOSURE: C

**ANCHOR NOTE(S):**

A. EFFECTIVE EMBEDMENT DEPTH (h/eff) FOR 5/8" DIA. ANCHOR SHALL BE 2 3/4". INSTALL ANCHOR PER ESR- 4266 AND MANUFACTURERS IFU'S.
B. MINIMUM CONCRETE SLAB THICKNESS SHALL BE 5". MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE, AT THE TIME OF INSTALLATION, SHALL BE 3,000 PSI. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 5". CONCRETE TO BE DESIGNED BY OTHERS.
C. CONTRACTOR IS RESPONSIBLE FOR DRILLING HOLE FOR INSTALLATION OF CONCRETE ANCHOR. IF REINFORCEMENT IS ENCOUNTERED, CONTACT EOR FOR INSTRUCTION BEFORE PROCEEDING.



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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
ISOMETRIC AND BOM

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PAPER SIZE: ANSI B

**PROJECT NUMBER:**

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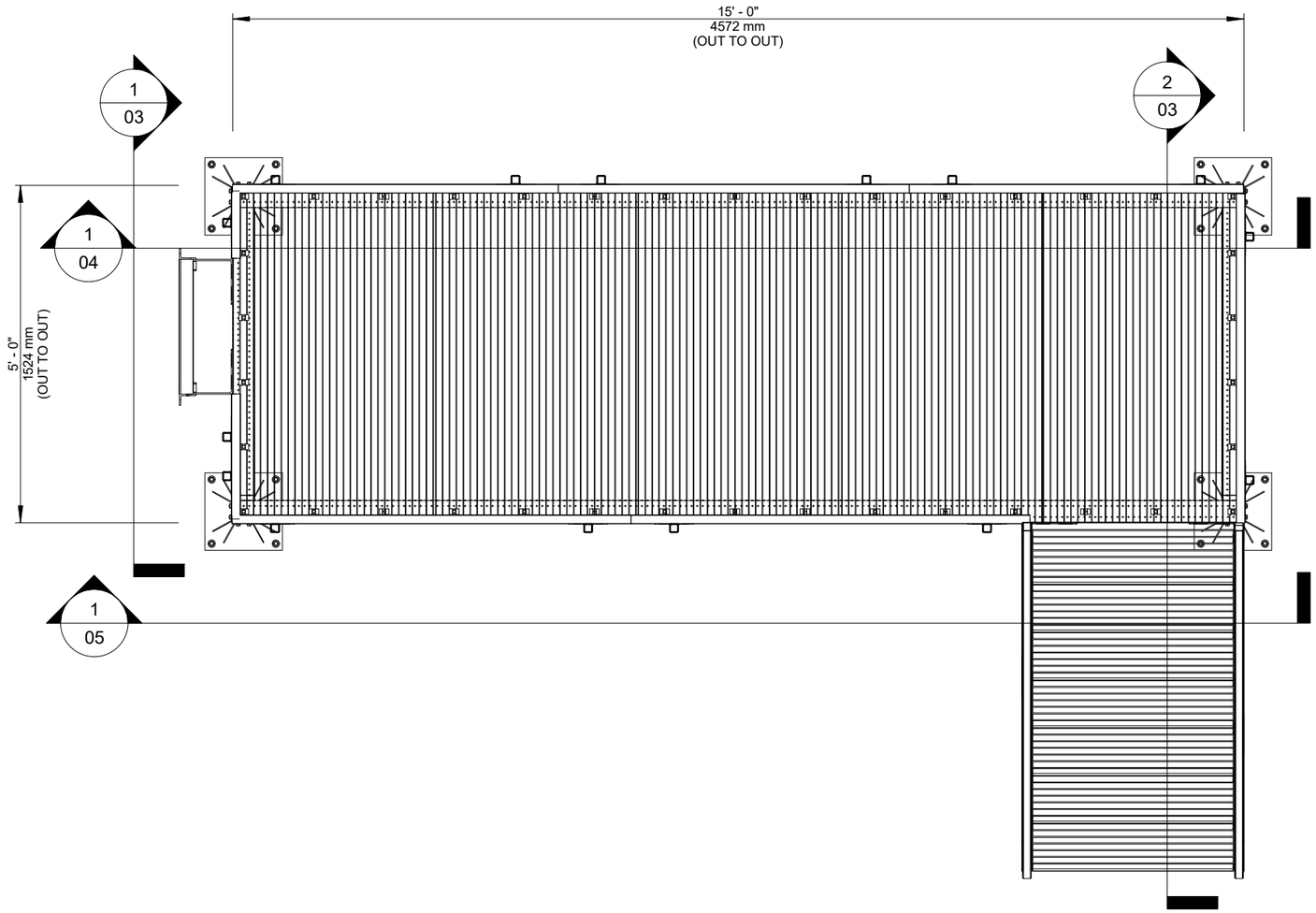


1 PLAN
1/2" = 1'-0"

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
PLAN

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
|---|---|---|---|
| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

PROJECT NUMBER:

| PROJECT | | TOR | | SHEET |
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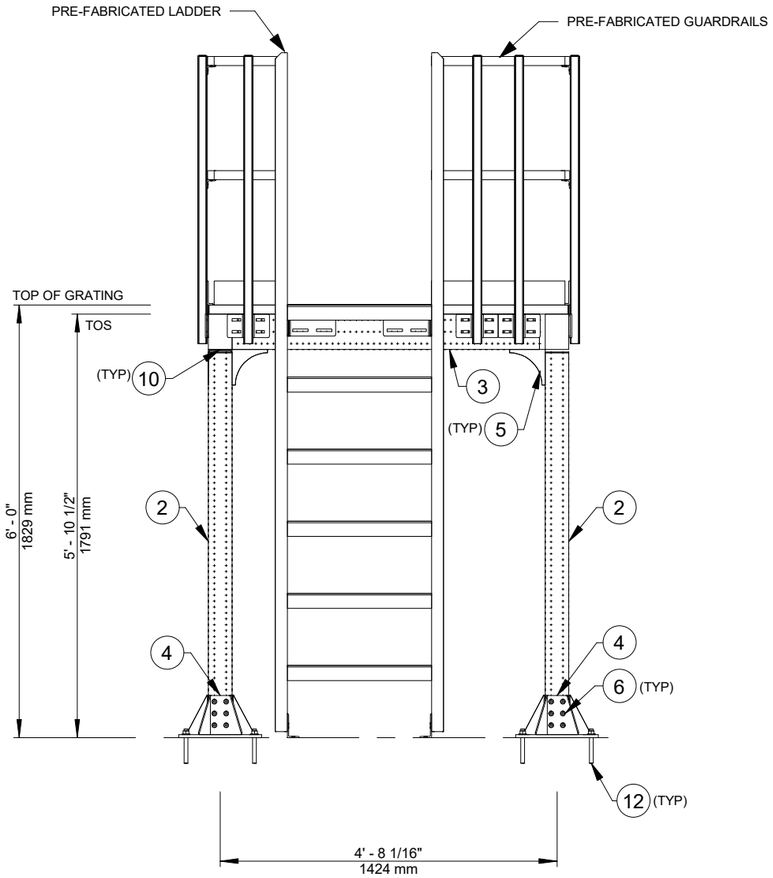
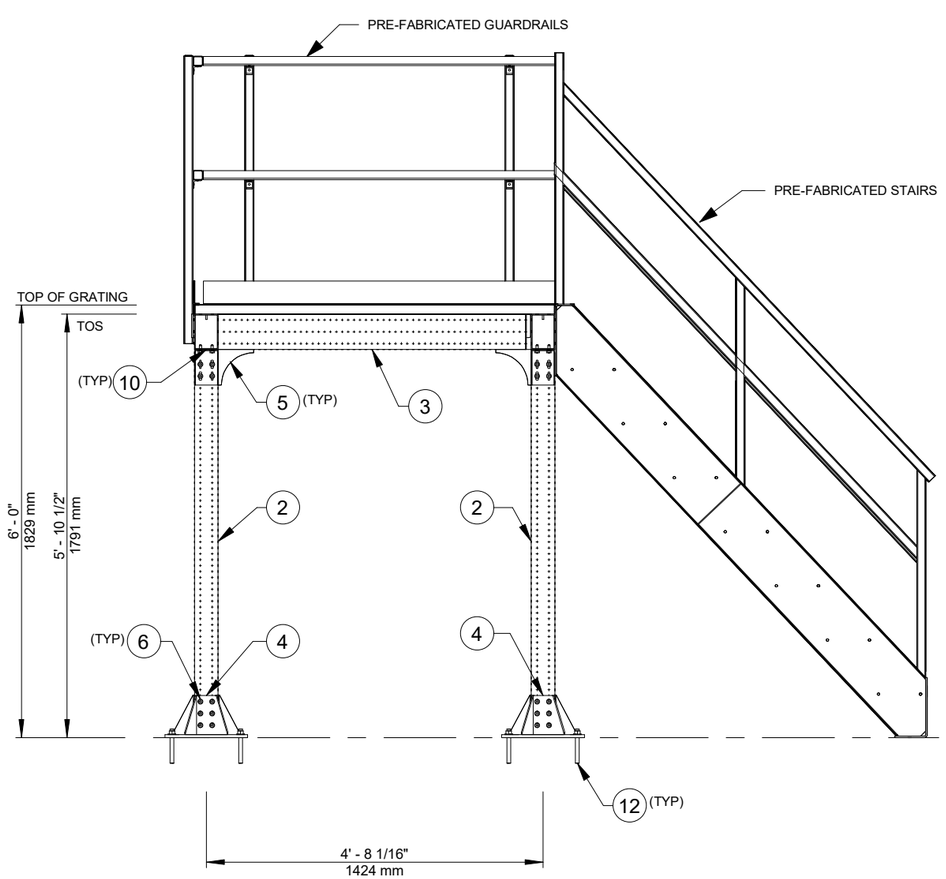



1 SECTION 1
1/2" = 1'-0"




2 SECTION 2
1/2" = 1'-0"

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
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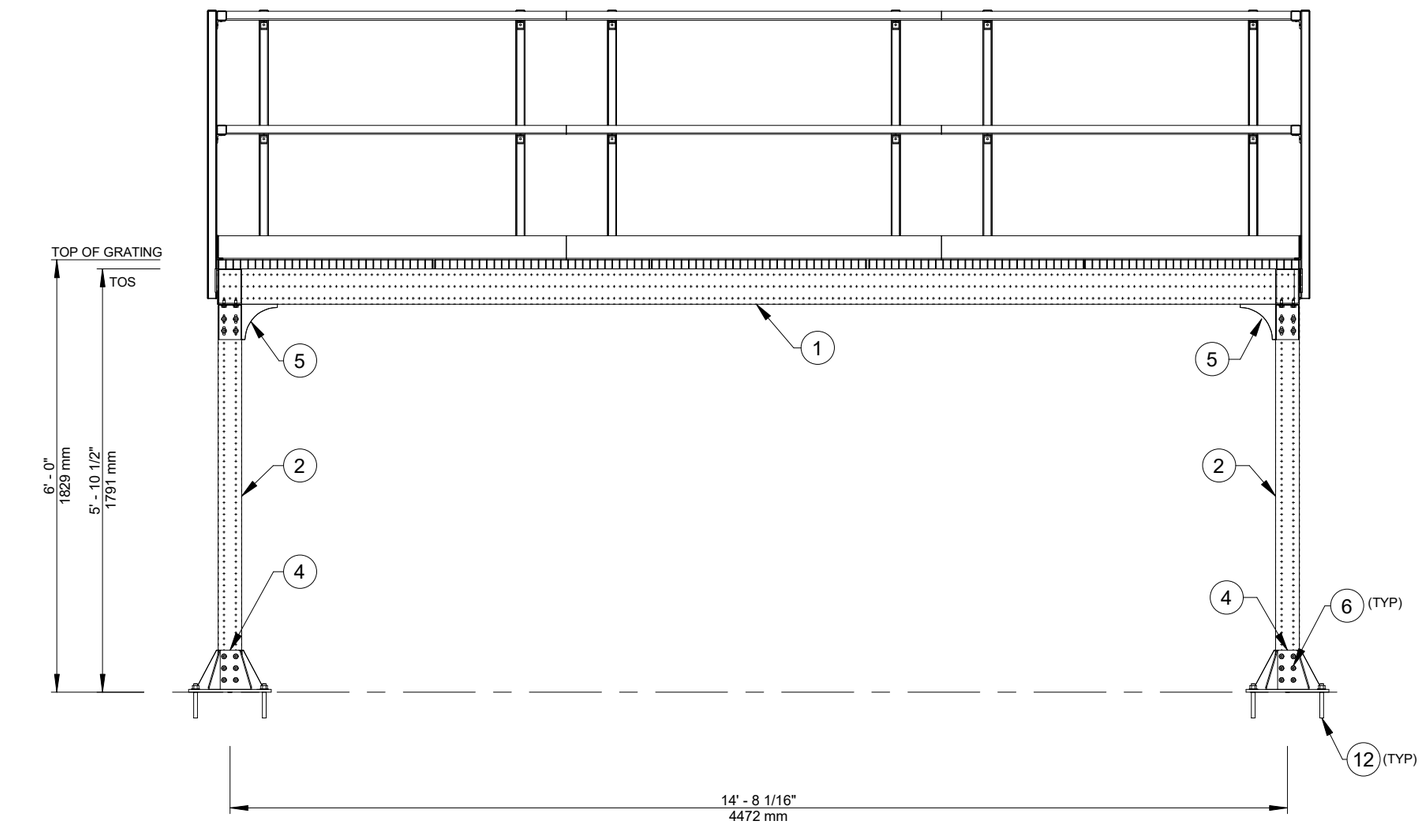


1 SECTION 3
1/2" = 1'-0"

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

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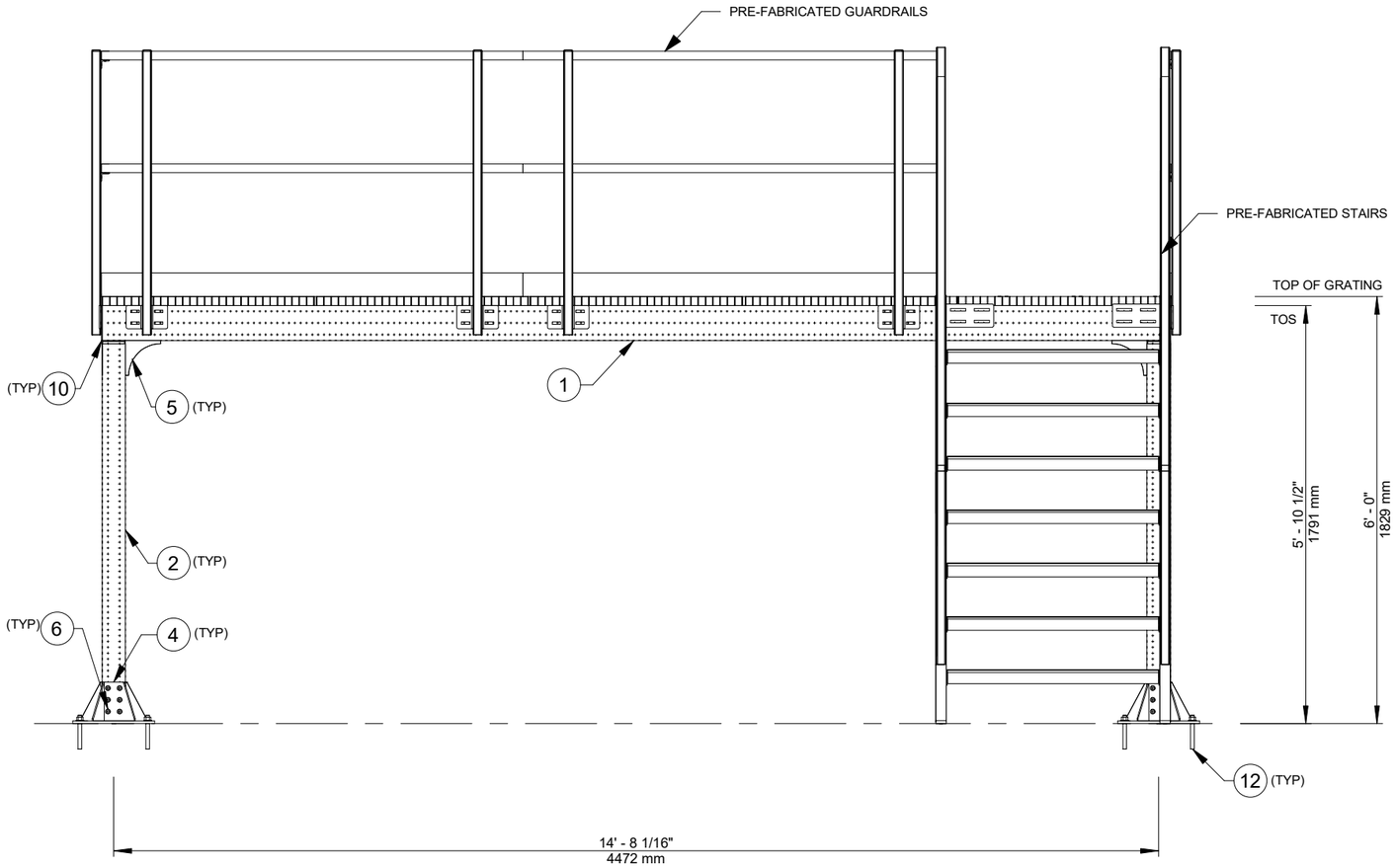


1 SECTION 4
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
SECTIONS

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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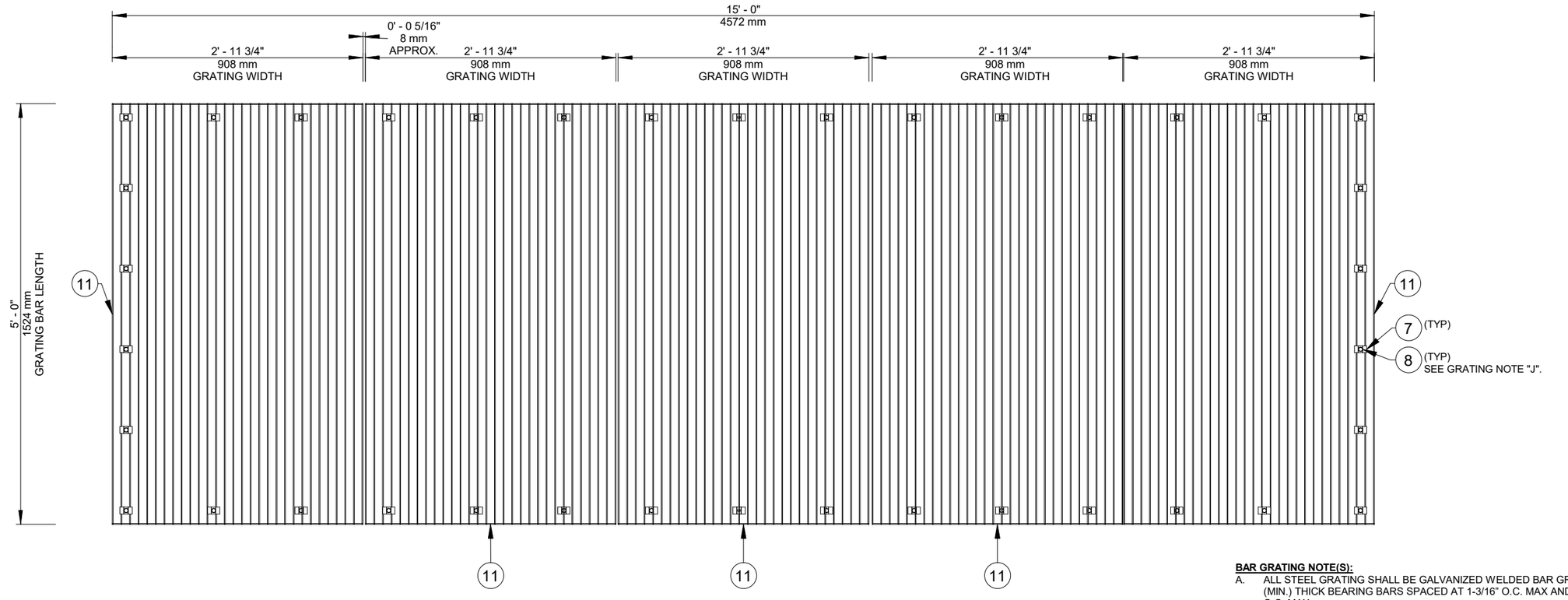
# GRATING - BOM

| MARK | ITEM NUMBER | Count | DESCRIPTION |
|---|---|---|---|
| 11 | Special | 5 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |




1 GRATING PLAN
3/4" = 1'-0"

**BAR GRATING NOTE(S):**

A. ALL STEEL GRATING SHALL BE GALVANIZED WELDED BAR GRATING WITH 1/8" (MIN.) THICK BEARING BARS SPACED AT 1-3/16" O.C. MAX AND CROSS BARS AT 4" O.C. MAX.
B. ALL GRATING SHALL BE SECURED TO BEARING SUPPORT USING GRATING CLIPS AND SCREWS AS SHOWN ON THE GRATING PLANS.
C. DEPTH AND THICKNESS OF THE GRATING SHALL BE AS INDICATED IN THE B.O.M.
D. ALL MANUFACTURING AND FABRICATION TOLERANCE AND ALL WELDING SPECIFICATIONS MUST COMPLY WITH CURRENT NAAMM METAL BAR GRATING MANUALS.
E. TOLERANCE ± 1/4" UNLESS OTHERWISE NOTED.
F. GALVANIZED PER ASTM A123.
G. BANDING TO BE ADDED AT TRIMMED AREAS.
H. THE GIVEN INTERIOR DIMENSIONS ARE FOR THE AVOIDANCE OF OBSTACLES. FOR THE EASE OF CONSTRUCTION, THE GRATING MANUFACTURER MAY ADAPT A DIMENSION TO THE NEAREST BANDING BAR UNLESS OTHERWISE NOTED.
J. GRATING CLIPS TO BE INSTALLED AT 12" AT EACH GIRDER. WITH A MINIMUM OF 2 CLIPS, PER GRATING PANEL, AT EACH GIRDER



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 4 - 15'Wx5'Dx6'H

SHEET DESCRIPTION:
GRATING

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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**

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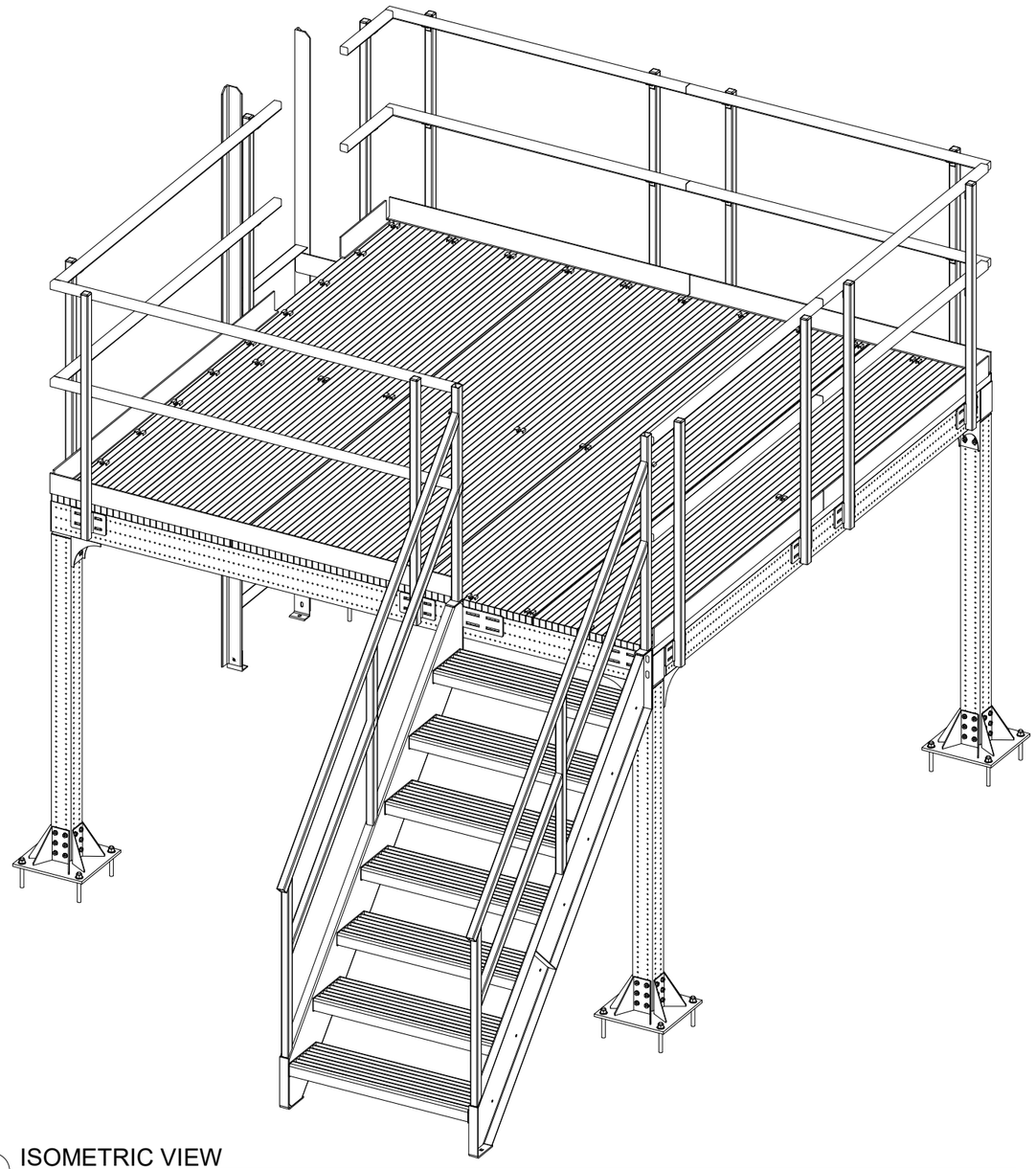

1 ISOMETRIC VIEW
NTS

# BILL OF MATERIALS

| MARK | QTY | ITEM NUMBER | PRODUCT DESCRIPTION | LENGTH (mm) | LENGTH (in) | CUT TYPE |
|---|---|---|---|---|---|---|
| 1 | 2 | 2268491 | I.-Girder MT-100 OC | 3048 | 10' - 0" | HPR |
| 2 | 3 | 2268491 | I.-Girder MT-100 OC | 2825 | 9' - 3 1/4" | HPR |
| 3 | 4 | 2268369 | I.-Girder MT-90 OC | 1600 | 5' - 3" | HPR |
| 4 | 4 | 2272103 | 4-hole Baseplate MT-B-GL-O4 OC | | | |
| 5 | 10 | 2272069 | Adjustable Angle Connector MT-C-GL A OC | | | |
| 6 | 176 | 2272084 | Thread Forming Bolt MT-TFB OC | | | |
| 7 | 47 | Special | Fastener - Grating Clip | | | |
| 8 | 47 | Special | Screw Grating Fastener (2TEK3SS) | | | |
| 9 | 2 | Special | Serrated 19W4 (1 1/2" x 1/8") HDG Grating | 3048 | 10' - 0" | |
| 10 | 2 | Special | Serrated 19W4 (1 1/2" x 1/8") HDG Grating | 3048 | 10' - 0" | |
| 11 | 4 | 2273699 | Girder End Cap MT-EC-90 | | | |
| 12 | 8 | 2273700 | Girder End Cap MT-EC-100 | | | |
| 13 | 16 | 2210278 | STUD ANCHOR KB-TZ2 5/8" x 4 3/4" SS304 | | | |

**DESIGN BASIS:**

A. APPLICABLE CODE:
(1) INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

B. VERTICAL LOADS:
(1) DEAD LOAD: 10 PSF (GRATING)
(2) LIVE LOAD: 60 PSF

C. LATERAL LOADS:
(1) WIND CRITERIA: PER ASCE 7-16
HEIGHT ABOVE GROUND (z): 0 FT
ULTIMATE DESIGN WIND SPEED: 120 MPH
WIND EXPOSURE: C

**ANCHOR NOTE(S):**

A. EFFECTIVE EMBEDMENT DEPTH (h/eff) FOR 5/8" DIA. ANCHOR SHALL BE 2 3/4". INSTALL ANCHOR PER ESR- 4266 AND MANUFACTURERS IFU'S.
B. MINIMUM CONCRETE SLAB THICKNESS SHALL BE 5". MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE, AT THE TIME OF INSTALLATION, SHALL BE 3,000 PSI. MINIMUM CONCRETE EDGE DISTANCE SHALL BE 5". CONCRETE TO BE DESIGNED BY OTHERS.
C. CONTRACTOR IS RESPONSIBLE FOR DRILLING HOLE FOR INSTALLATION OF CONCRETE ANCHOR. IF REINFORCEMENT IS ENCOUNTERED, CONTACT EOR FOR INSTRUCTION BEFORE PROCEEDING.



REVISION HISTORY

| NO: | DESCRIPTION: | DRW | CHK | DATE: |
|---|---|---|---|---|
| A | ISSUED FOR REVIEW | IDP | GAB | 06/18/2021 |
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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 5 - 10'Wx10'Dx6'H

SHEET DESCRIPTION:
ISOMETRIC AND BOM

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PAPER SIZE: ANSI B

**PROJECT NUMBER:**
PROJECT - - TOR 05 - SHEET 01

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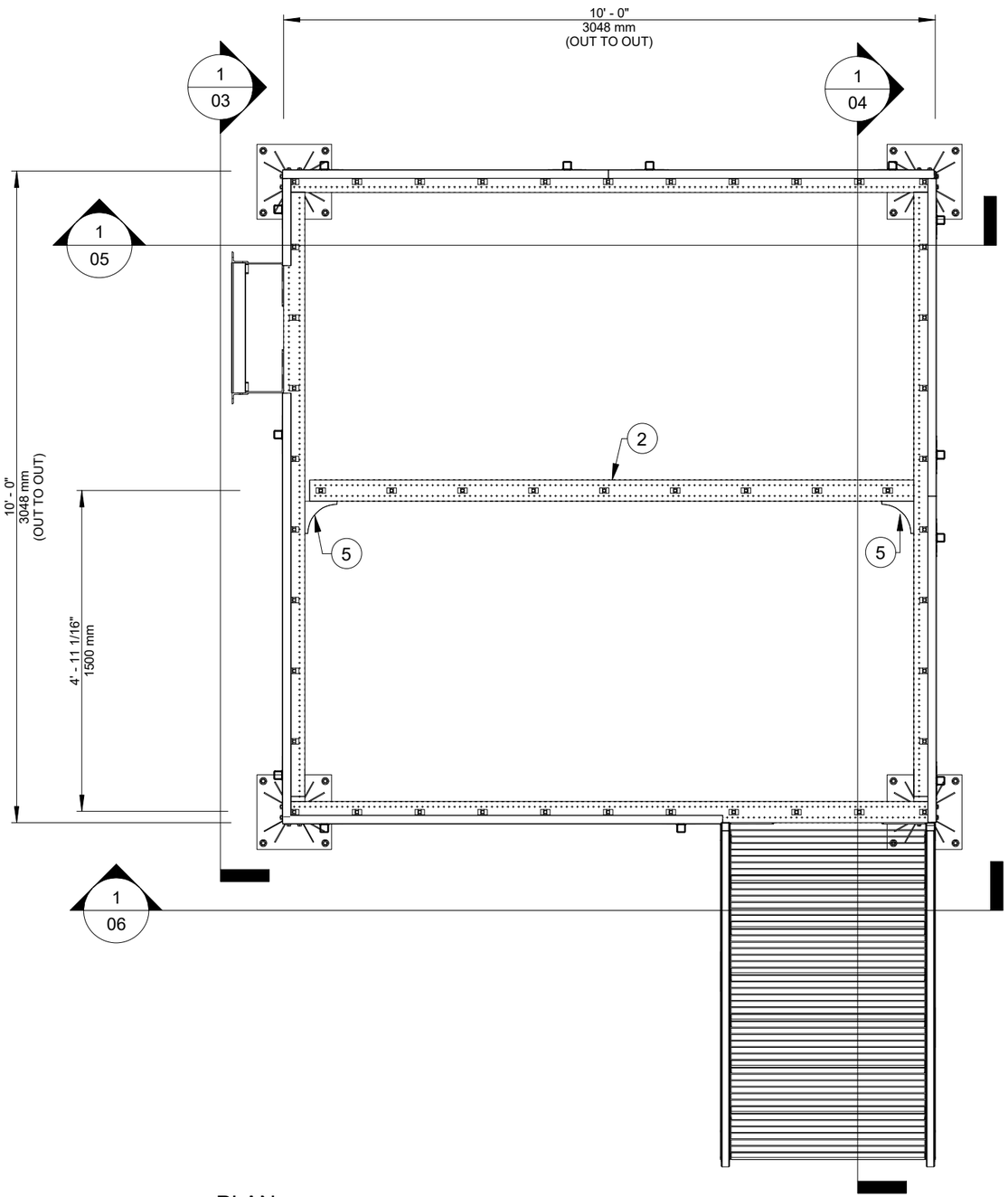


1 PLAN
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 5 - 10'Wx10'Dx6'H

SHEET DESCRIPTION:
PLAN

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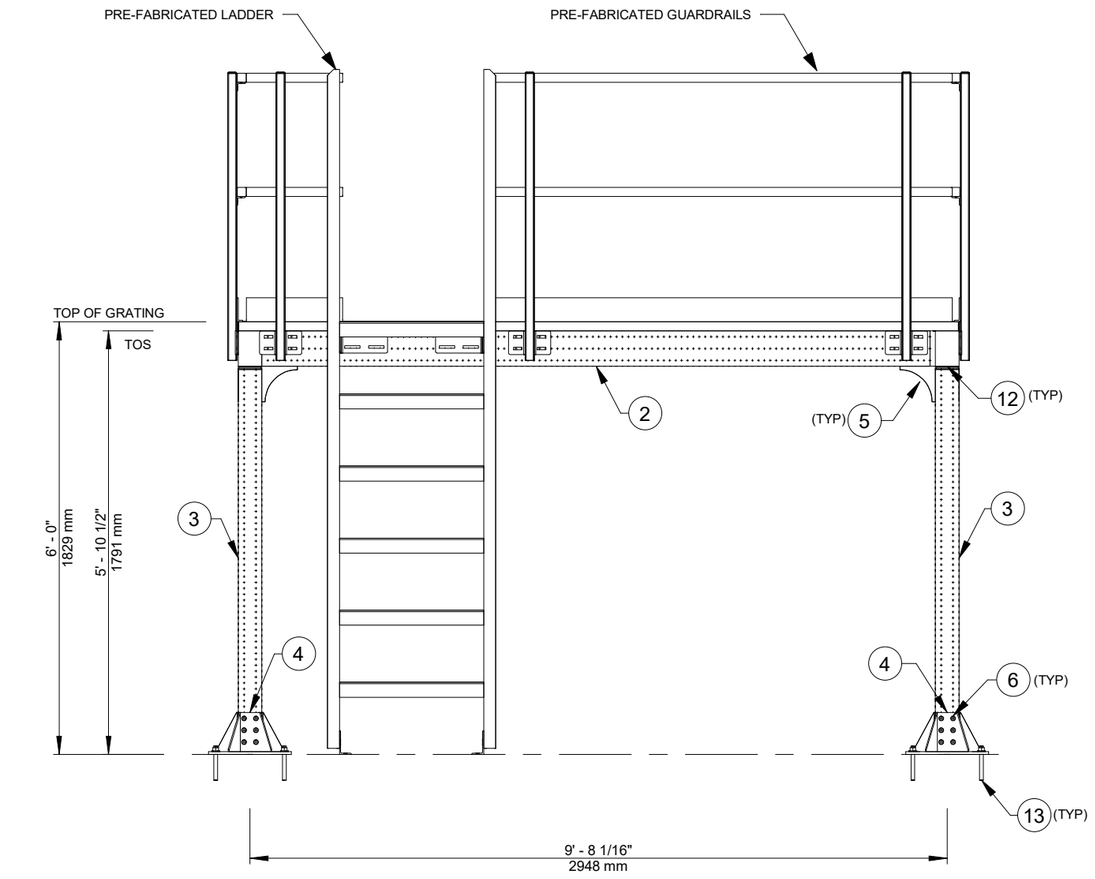


1 SECTION 1
1/2" = 1'-0"

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 5 - 10'Wx10'Dx6'H

SHEET DESCRIPTION:
SECTIONS

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PAPER SIZE: ANSI B

PROJECT NUMBER:
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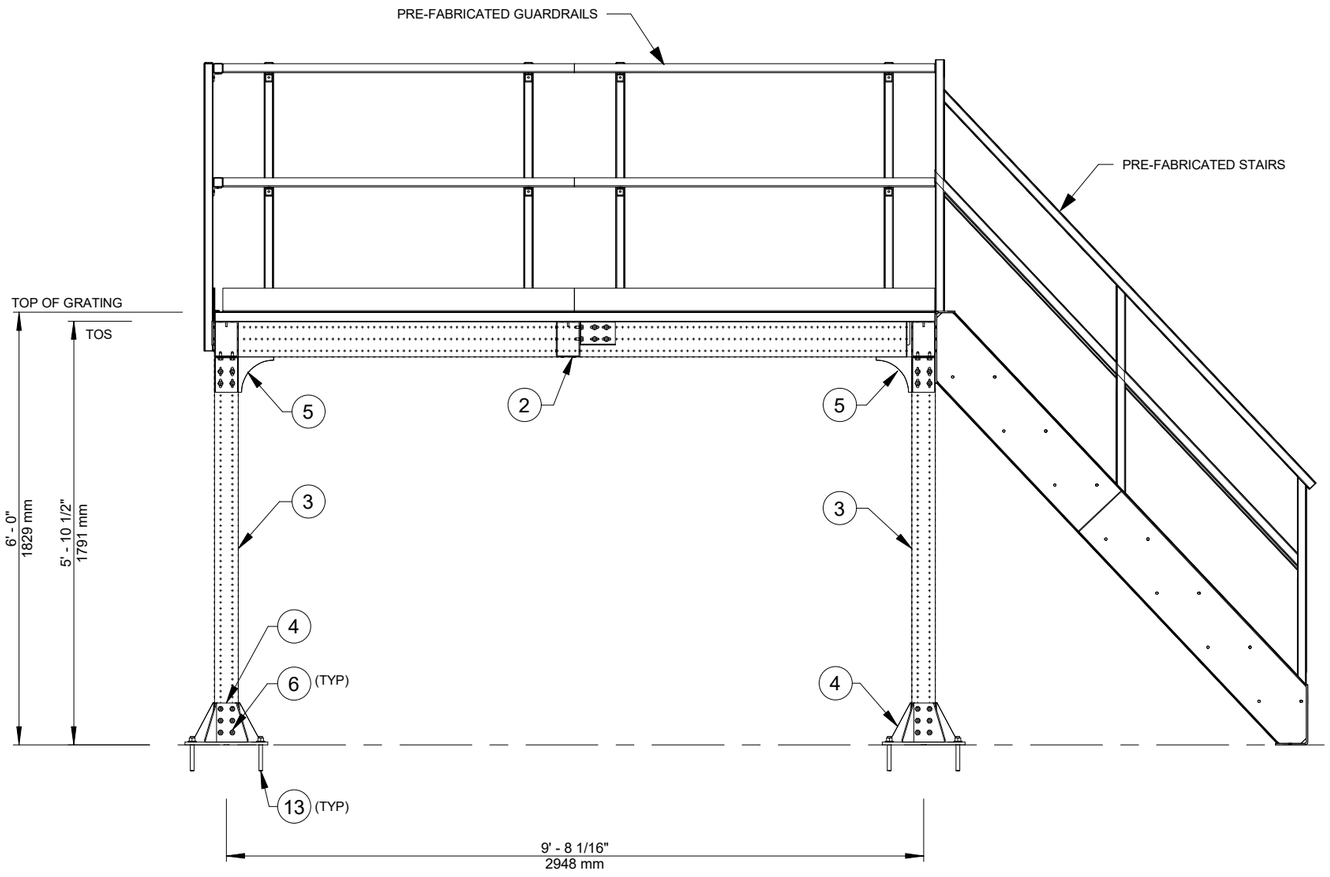


1 SECTION 2
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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SHEET DESCRIPTION:
SECTIONS

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PAPER SIZE: ANSI B

PROJECT NUMBER:
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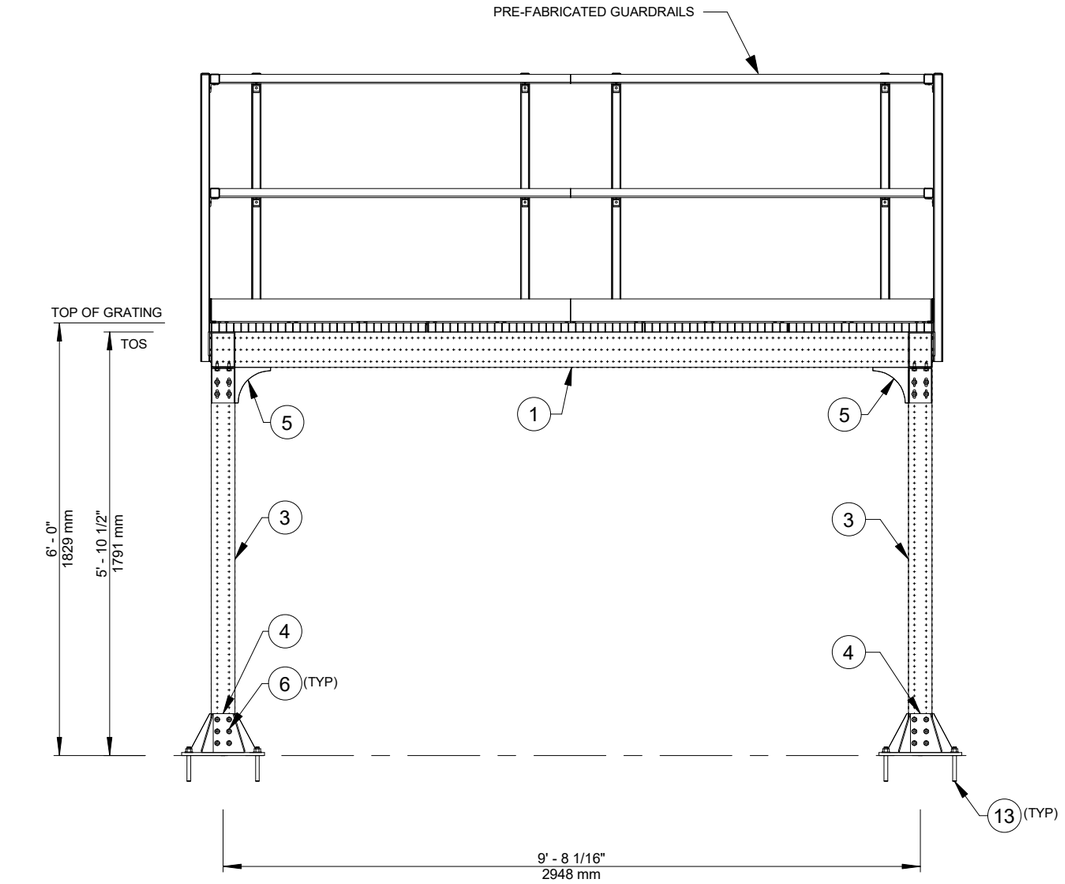


1 SECTION 3
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

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SECTIONS

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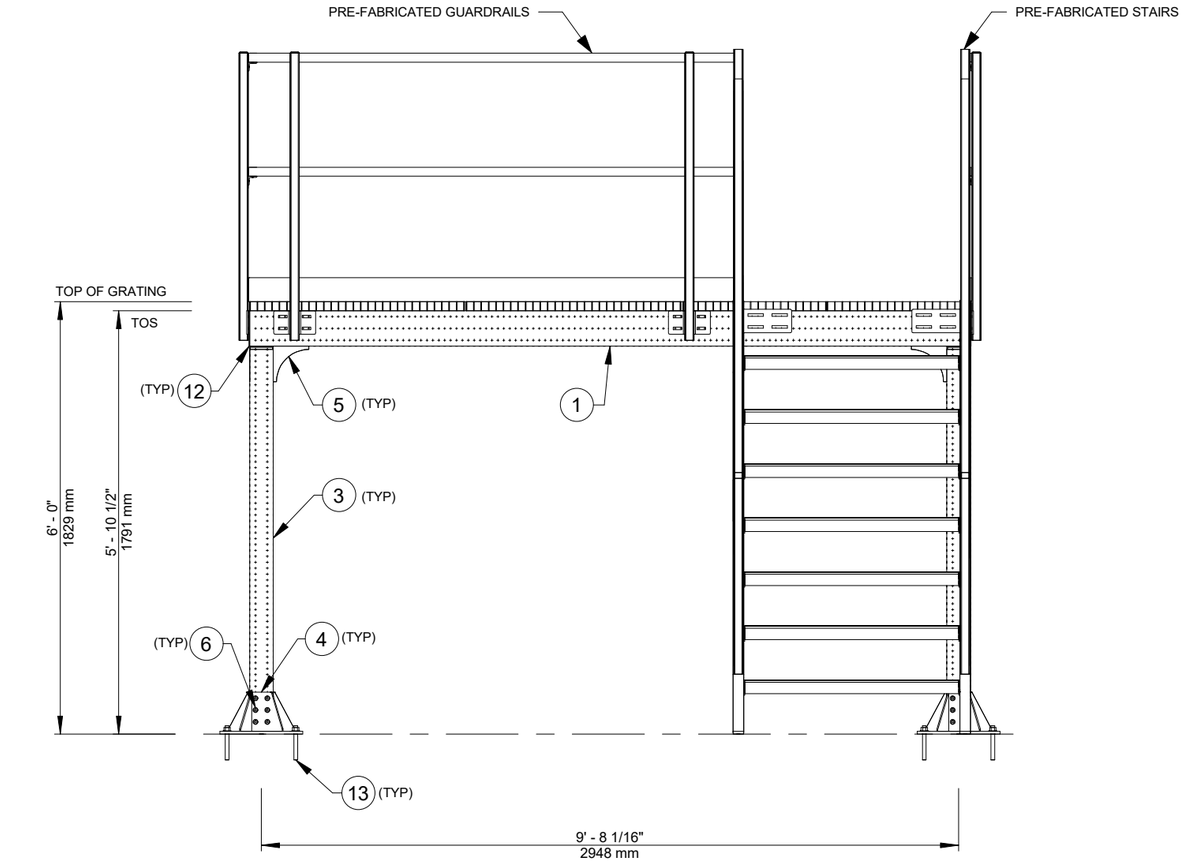


1 SECTION 4
1/2" = 1'-0"

All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

REVISION HISTORY

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PROJECT NAME:
MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 5 - 10'Wx10'Dx6'H

SHEET DESCRIPTION:
SECTIONS

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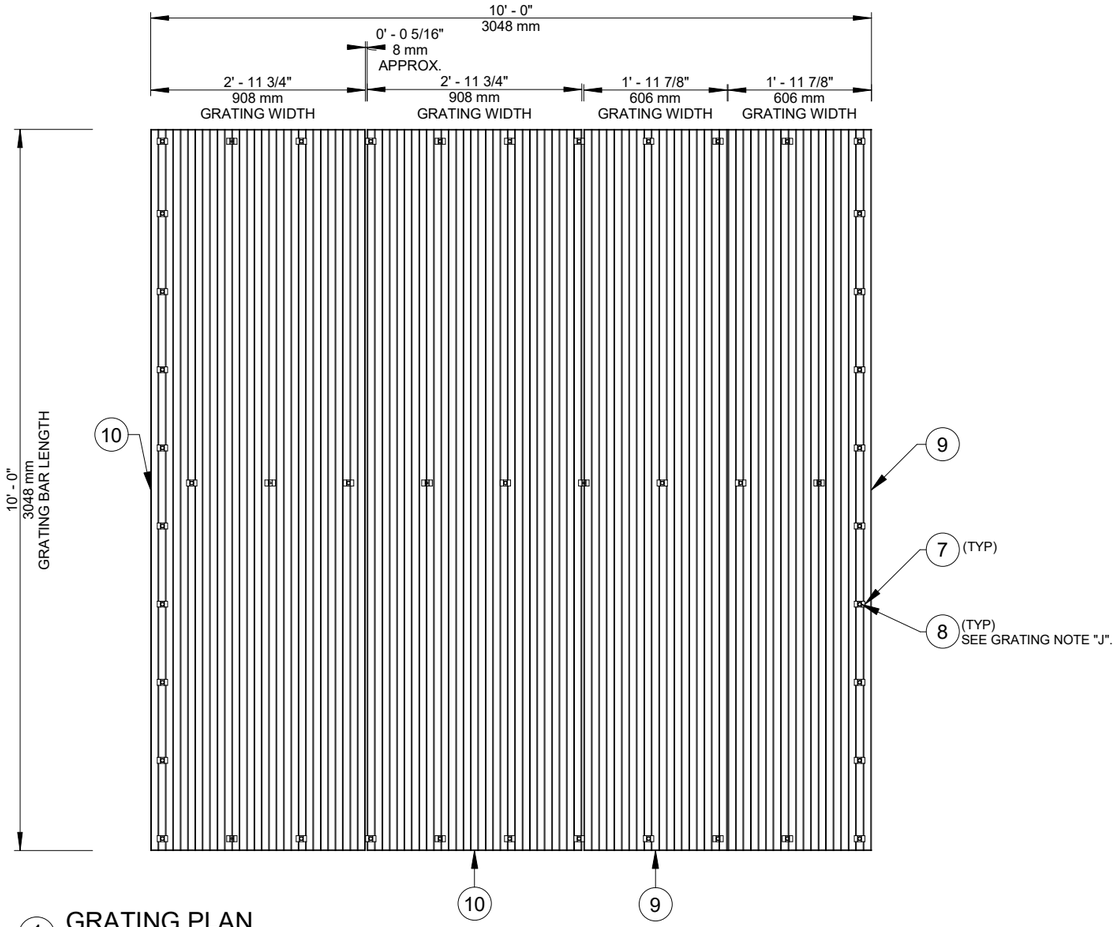
# GRATING - BOM

| MARK | ITEM NUMBER | Count | DESCRIPTION |
|---|---|---|---|
| 9 | Special | 2 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |
| 10 | Special | 2 | Serrated 19W4 (1 1/2" x 1/8") HDG Grating |




1 GRATING PLAN
1/2" = 1'-0"

**BAR GRATING NOTE(S):**

A. ALL STEEL GRATING SHALL BE GALVANIZED WELDED BAR GRATING WITH 1/8" (MIN.) THICK BEARING BARS SPACED AT 1-3/16" O.C. MAX AND CROSS BARS AT 4" O.C. MAX.
B. ALL GRATING SHALL BE SECURED TO BEARING SUPPORT USING GRATING CLIPS AND SCREWS AS SHOWN ON THE GRATING PLANS.
C. DEPTH AND THICKNESS OF THE GRATING SHALL BE AS INDICATED IN THE B.O.M.
D. ALL MANUFACTURING AND FABRICATION TOLERANCE AND ALL WELDING SPECIFICATIONS MUST COMPLY WITH CURRENT NAAMM METAL BAR GRATING MANUALS.
E. TOLERANCE ± 1/4" UNLESS OTHERWISE NOTED.
F. GALVANIZED PER ASTM A123.
G. BANDING TO BE ADDED AT TRIMMED AREAS.
H. THE GIVEN INTERIOR DIMENSIONS ARE FOR THE AVOIDANCE OF OBSTACLES. FOR THE EASE OF CONSTRUCTION, THE GRATING MANUFACTURER MAY ADAPT A DIMENSION TO THE NEAREST BANDING BAR UNLESS OTHERWISE NOTED.
J. GRATING CLIPS TO BE INSTALLED AT 12" AT EACH GIRDER. WITH A MINIMUM OF 2 CLIPS, PER GRATING PANEL, AT EACH GIRDER



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MT PLATFORM TYPICALS

PROJECT DESCRIPTION:
PL-CONCEPT 5 - 10'Wx10'Dx6'H

SHEET DESCRIPTION:
GRATING

| DRAWN: | CHECKED: | DESIGNED: | REVIEWED: |
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| IDP | GAB | MKH | YY |

PAPER SIZE: ANSI B

**PROJECT NUMBER:**
PROJECT - JOB - 05 - SHEET 07

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