<table>
<thead>
<tr>
<th>CODE</th>
<th>ELEMENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>INTERIOR INTERIOR</td>
<td>Carbon steel</td>
</tr>
<tr>
<td>B1</td>
<td>ES280909460</td>
<td>carbon steel B1 (Black)</td>
</tr>
<tr>
<td>C1</td>
<td>Exposed Structural Deck</td>
<td>carbon steel C1 (Black)</td>
</tr>
<tr>
<td>D1</td>
<td>PLYWOOD PLATES</td>
<td>Plywood plates with exposed aggregate, F.S. 10000 B1 (Black)</td>
</tr>
<tr>
<td>E1</td>
<td>Stone Treads and Risers</td>
<td>316L stainless steel, 2mm stainless steel external fascia</td>
</tr>
<tr>
<td>F1</td>
<td>Lintel Rail</td>
<td>316L stainless steel, 2mm thickness</td>
</tr>
<tr>
<td>G1</td>
<td>Support Column</td>
<td>316L stainless steel, 2mm thickness</td>
</tr>
<tr>
<td>H1</td>
<td>INTERIOR INTERIOR</td>
<td>316L stainless steel, 2mm thickness</td>
</tr>
<tr>
<td>J1</td>
<td>All dimensions are in millimetres unless otherwise stated.</td>
<td>TBD</td>
</tr>
<tr>
<td>K1</td>
<td>TO MATCH APPROVED SAMPLE: VES-XX-SA-XX0024</td>
<td>TBD</td>
</tr>
<tr>
<td>L1</td>
<td>Granite 'Jet Mist'</td>
<td>(Colour to be confirmed in mockup)</td>
</tr>
<tr>
<td>M1</td>
<td>Carbon steel</td>
<td>#7 mirror finish and with copper colour PVD</td>
</tr>
<tr>
<td>N1</td>
<td>TO MATCH APPROVED SAMPLE: Wausau Tile H15-266 (To be confirmed in mock up)</td>
<td>1.4m/1.5m maximum panel width</td>
</tr>
</tbody>
</table>

**Related Companies**
- Related Companies
- Tel: 212.801.1000 Fax: 212.801.1048
- Oxford Properties Group
- 320 Park Avenue, 17th Floor Tel: 212.986.7514 Fax: 212.9863.7510
- Construction Manager: Tishman Construction Corporation
- Executive Architect: Kohn Pedersen Fox Associates PC
- Design Architect: Ove Arup & Partners P.C.
- LEARN RAIL: Lean Rail
- PEDESTAL TERRACE VERTICAL SURFACE: Stainless Steel
- GUARDRAIL LEAN RAIL FASCIA: Stainless Steel
- PLATFORM PAVING: Cast steel painted finish
- GUARDRAIL POST: Stainless steel
- GUARDRAIL UPHARDS: Stainless steel
- GUARDRAIL LEAN RAIL: End fittings
- GUARDRAIL GLASS: Laminated clear glazing, low iron
- PEDIMENT VALENCY SURFACE: Stainless Steel
- PEDIMENT TERRACE HORIZONTAL SURFACE: Stainless Steel
- PEDIMENT TERRACE VERTICAL SURFACE: Stainless Steel
- PEDIMENT LIGHTING CABINS: Stainless Steel
- PEDIMENT MEDALLIONS: Stainless Steel
- ELEVATOR CAR EXTERNAL FRAMING SURFACES: Stainless Steel
- ELEVATOR ENTRANCE / BALCONY FRAMING: Non-Structural Finish
- ELEVATOR CAR GLASS: Laminated clear glazing, low iron
- ELEVATOR ENTRANCE / BALCONY GLASS: Cast steel painted finish
- ELEVATOR CAR MIRROR: Same as C-111
- ELEVATOR CAR FLOOR: Same as C-111
- ELEVATOR CEILING: Same as C-111
- SECURITY GATES: TBD
NOTES:

- PROJECT SET OUT ON A RADIAL GRID WITH ROTATIONALLY SYMMETRICAL AND MIRRORED SEGMENTS.
- THERE ARE 20 GRIDLINES FROM VA TO VK.
- AT GRIDLINE VA-VA SPINE ELEMENT SUPPORTS AN ELEVATOR TRACK.
- THE PROJECT IS SYMMETRICAL ABOUT GRIDLINE VA-VF; THEREFORE, ALL SEGMENTS BETWEEN GRIDLINES VA-VB AND VK-VA ARE NAMED "SPINE SEGMENT".
- THE SEGMENTS BETWEEN V.B-V.C AND V.J-V.K ARE NAMED "TRANSITION SEGMENTS" AS THEY TRANSITION BETWEEN THE TYPICAL AND SPINE GEOMETRIES.
PROJECT HAS 12 LEVELS, EACH LEVEL GROWS IN CIRCUMFERENCE AS YOU ASCEND THE PROJECT.

WORKPOINTS SET OUT TO TOP OF STEEL WHICH IS 215MM BELOW FINISHED FLOOR LEVEL ON PLATFORMS.

ARCHITECTURAL DRAWINGS INDICATE LEVEL NUMBERING FOR SIGNAGE PACKAGE. SEE CONCEPT DIAGRAM ON SHEET A-002.00

STRUCTURAL DRAWINGS INDICATE CONSTRUCTION LEVEL NUMBERING.

ARCHITECTURAL DRAWINGS INDICATE CONSTRUCTION LEVEL NUMBERING.
NOT IN CONTRACT / WORK DESIGN IS DEEMED TO BE APPLIED UNDER SEPARATE APPLICATION

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TEL: 212.896.3000

CONSTRUCTION MANAGER

TISHMAN CONSTRUCTION CORPORATION

100 PARK AVENUE
TEL: 212.708.6800

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LEGEND
INTERLAYER
CAVITY BEHIND SOFFIT CLADDING

LEVEL 4.5 PLAN (DISPLAY 4)

LEVEL 4.5 (DISPLAY 4)
NOTES
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LEVEL 7 (DISPLAY 7)
LEVEL 7 PLAN
(DISPLAY 7)

LEVEL 13 PLAN

2 Document Issue 3 12/22/14
3 Document Issue 10 05/29/15
5 Document Issue 12 25/03/16
NOTES
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North Elevation

Level 16 (B, D, F, H, K)
59.284 m / 194' - 6"

Level 15
LEVEL 8
(A, C, E, G, J)
56.080 m / 184' - 0"

Level 14
LEVEL 7.5
LEVEL 14 (B, D, F, H, K)
46.468 m / 152' - 5 1/2"

Level 13
LEVEL 7
(A, C, E, G, J)
37.390 m / 122' - 8"

Level 12
LEVEL 6.5
LEVEL 12 (B, D, F, H, K)
40.416 m / 132' - 7"

Level 11
LEVEL 6
LEVEL 11 (A, C, E, G, J)
34.720 m / 113' - 11"

Level 10
LEVEL 5.5
LEVEL 10
5.5
LEVEL
40.416 m / 132' - 7"

Level 9
LEVEL 5
LEVEL 5 (A, C, E, G, J)
31.694 m / 104' - 0"

Level 8
LEVEL 4.5
LEVEL 8 (B, D, F, H, K)
26.176 m / 85' - 10 1/2"

Level 7
LEVEL 4
LEVEL 4 (A, C, E, G, J)
24.92 0.672 m / 162' - 11 1/2"

Level 6
LEVEL 3.5
LEVEL 6 (B, D, F, H, K)
28.48 2.876 m / 173' - 5 1/2"

Level 5
LEVEL 3
LEVEL 5 (A, C, E, G, J)
21.014 m / 68' - 11 1/2"

Level 4
LEVEL 2.5
LEVEL 4 (B, D, F, H, K)
23.862 m / 78' - 3 1/2"

Level 3
LEVEL 2
LEVEL 3 (A, C, E, G, J)
18.878 m / 61' - 11"

Level 2
LEVEL 1
LEVEL 2 (A, C, E, G, J)
16.564 m / 54' - 4"

Level 1
LEVEL 0.5
LEVEL 1 (A, C, E, G, J)
13.716 m / 45' - 0"

Level 0.5
LEVEL 0
LEVEL 0.5 (A, C, E, G, J)
10.363 m / 34' - 0"

Level 0
LEVEL G
LEVEL
9.216 m / 30' - 5"

PLAZA SURFACE LEVEL
12.344 m / 40' - 6"

SLAB LEVEL
10.363 m / 34' - 0"

PRELIMINARY

Project No.

CONSTRUCTION

Drawn By

Sheet Number

HYE-VS-A-201

NORTH ELEVATION

1 NORTH ELEVATION
LEGEND

All dimensions are in millimetres unless otherwise stated.

Heatherwick Studio shall be notified in writing of any discrepancies.

DATE:

12/07/2016:

DATE:

APPROVED
Under Directive 2 of 1975

Damian Titus
NOTES

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CUT PLANE LEVEL 1250mm ABOVE FFL

CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE
OF PLATFORM AS SHOWN

CHANNEL FOR SECURITY GATES
SEE DRAWINGS A-555 AND A-556
GATE DRIVE MECHANISM TBD

36° 36° 36°

LEVEL 02
18.878 m  /  61' - 11"

LEVEL 1.5
18.878 m  /  61' - 11"

LEVEL 1.5 (DISPLAY 1)

DIMENSIONS SHOWN TO CENTRE
OF PLATFORM POSTS AND EDGE
OF CORNER POSTS
SEE DIAGRAM ON A-401

DIMENSIONS TO CENTRELINE
OF PLATFORM GUARDRAIL

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CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

DIMENSIONS SHOWN TO CENTRE OF PLATFORM GUARDRAIL
DIMENSION SHOWN TO CENTRE OF PLATFORM POSTS AND EDGE OF CORNER POSTS
SEE DIAGRAM ON A-401

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

NOTES
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LEVEL 1.5
18.878 m / 61' - 11"

LEVEL 2.0
21.014 m / 68' - 11 1/2"

EXECUTIVE ARCHITECT

EXECUTIVE ARCHITECT

EXECUTIVE ARCHITECT

DATE:

12/07/2016

12/07/2016

12/07/2016

APPROVED
Under Directive 2 of 1975

APPROVED
Under Directive 2 of 1975

APPROVED
Under Directive 2 of 1975

DATE:

Damian Titus

Damian Titus

Damian Titus

REP. 34 OF 86

REP. 34 OF 86

REP. 34 OF 86

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HUDSON YARDS VESSEL

OND VESSEL,

NEW YORK, NY

TYPICAL PLATFORM LEVEL 03

A-403.00

HYE-VS-A-403

1 : 20

1 : 20

1 : 20

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2 Document Issue 10 05/29/15
3 Document Issue 12 25/03/16

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1 Document Issue 2 08/29/14
2 Document Issue 10 05/29/15
3 Document Issue 12 25/03/16
CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

DIMENSION SHOWN TO CENTRE
OF PLATFORM GUARDRAIL

DIMENSIONS TO CENTRELINE
OF PLATFORM GUARDRAIL

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CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

[16' - 10 3/8"] 5140
[18' - 11 1/8"] 5769
[10' - 0 9/16"] 3062
[3' - 9"] 1143

LEVEL 07
31.694 m  /  104' - 0"
CUT PLANE LEVEL 1250mm ABOVE FFL

CUT PLANE LEVEL 500mm ABOVE FFL

2

A-409

[22' - 1 1/2”] 6744

[13’ - 4 3/16”] 4069

3

A-409

LEVEL 09

37.390 m  /  122' - 8"

LEVEL 09

37.390 m  /  122' - 8"

36° 36° 36°

T T T

T

T

36°

16' - 0 1/16” 4878

3' - 9” 1143

CLIENT

PROJECT MINIMUM EGRESS WIDTH

PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

DIMENSIONS SHOWN TO CENTRE OF PLATFORM GUARDRAIL

DIMENSIONS SHOWN TO CENTRE OF PLATFORM POSTS AND EDGE OF CORNER POSTS

SEE DIAGRAM ON A-401

DIMENSIONS TO CENTRELINE OF PLATFORM GUARDRAIL

DIMENSIONS TO CENTRELINE OF PLATFORM POSTS AND EDGE OF CORNER POSTS

SEE DIAGRAM ON A-401

NOTES

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CUT PLANE LEVEL 14

LEVEL 14
52.876 m  /  173' - 5 1/2"

[14' - 10 5/8"]
4537

[29' - 10 11/16"]
9110

[21' - 2 3/4"]
6470

[3' - 9"]
1143

DIMENSIONS TO CENTRE OF PLATFORM GUARDRAIL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE
OF PLATFORM AS SHOWN

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CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE
OF PLATFORM AS SHOWN

LEVEL 03
21.014 m  /  68' - 11 1/2"
LEVEL 02
18.878 m  /  61' - 11"
LEVEL 04
23.862 m  /  78' - 3 1/2"

DIMENSION SHOWN TO CENTRE
OF PLATFORM POSTS AND EDGE
OF CORNER POSTS
SEE DIAGRAM ON A-401

ELEVATOR BARRIER FDNY
EMERGENCY ACCESS ONLY.
SETTING-OUT TO BE BASED ON
ELEVATOR TRACK DEVELOPMENT
(SEE A-546)

ACCESS TO THIS PLATFORM RESTRICTED BY A BARRIER AT TOP OF STAIRS LEADING TO PLATFORM (SEE A-422).
OPEN BAR TO BE AUTHORIZED PERSONNEL FOR THEIR MAINTENANCE OR CLEANING ACCESS TO THIS AREA.

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CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

DIMENSIONS TO CENTRELINE OF PLATFORM GUARDRAIL
BARRIER TO RESTRICT ACCESS TO SPINE PLATFORM 03 - ON GRID LINE

BARREN DESIGN T.B.D.

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CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

CUT PLANE LEVEL 1250mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH

PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

EQ 19' - 9 1/2" 6032

EQ 9' - 9" 2972

EQ 5 1/2" 140

EQ 6 1/4" 158

EQ 6 1/2" 165

LEVEL 06 29.202 m  /  95' - 9 1/2"

LEVEL 07 31.694 m  /  104' - 0"

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CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL.

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE
OF PLATFORM AS SHOWN

DIMENSION SHOWN TO CENTRE
OF PLATFORM POSTS AND EDGE
SEE DIAGRAM ON A-401

ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESS ONLY
SETTING-OUT TO BE BASED ON
ELEVATOR TRACK DEVELOPMENT
(SEE A-546)

AREA WITH VERTICAL CLEARANCE
LESS THAN 80" (2032mm)

ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESS ONLY

SHEET 54 OF 86
DEPT OF BLDGS Job Number Scan Code
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

DIMENSIONS SHOWN TO CENTRE
OF PLATFORM POSTS AND EDGE
OF CORNER POSTS
SEE DIAGRAM ON A-401

DIMENSIONS TO CENTRELINE
OF PLATFORM GUARDRAIL

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DIMENSIONS TO CENTRELINE OF PLATFORM GUARDRAIL

TRANSITION PLATFORMS 6.5B (SHOWN HERE) AND 6.5K ARE IDENTICAL TO TYPICAL PLATFORMS 6.5D, 6.5F AND 6.5H

TRANSITION PLATFORMS 12B (SHOWN HERE) AND 12K ARE IDENTICAL TO TYPICAL PLATFORMS 12D, 12F AND 12H

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1 : 20
1 PLAN
2 LONG SECTION
3 CROSS SECTION

DIMENSIONS SHOWN TO CENTRE OF PLATFORM POSTS AND EDGE OF CORNER POSTS
SEE DIAGRAM ON A-401

HAVING SETTLED OUT FROM CENTRE OF PLATFORM AS SHOWN PROJECT MINIMUM EGRESS WIDTH

CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESS ONLY
ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESS ONLY

LEVEL 13
49.672 m / 162' - 11 1/2"

LEVEL 14
52.876 m / 173' - 5 1/2"

LEVEL 7

LEVEL 7.5

DIMENSIONS SHOWN TO CENTRELINE OF PLATFORM GUARDRAIL

ELEVATOR BARRIER FDNY
EMERGENCY ACCESS ONLY.
SETTING-OUT TO BE BASED ON ELEVATOR TRACK DEVELOPMENT (SEE A-546)

ELEVATOR BARRIER
EMERGENCY PERSONNEL ACCESS ONLY

DIMENSIONS TO CENTRELINE OF PLATFORM GUARDRAIL

ELEVATOR BARRIER FDNY
EMERGENCY ACCESS ONLY.
CUT PLANE LEVEL 1300mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE
OF PLATFORM AS SHOWN

ELEVATOR CAR

AREA WITH VERTICAL CLEARANCE
LESS THAN 80" (2032mm)

ELEVATOR ENTRANCE

DIMENSION SHOWN TO CENTRE
OF PLATFORM GUARDRAIL
DIMENSIONS TO CENTRELINE
OF PLATFORM GUARDRAIL

ELEVATOR ENTRANCE

SPA PLATFORM LEVEL 15
HYE-VS-A-435
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH
PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

DIMENSIONS SHOWN TO CENTRE OF PLATFORM POSTS AND EDGE OF CORNER POSTS
SEE DIAGRAM ON A-401

NOTES:
TRANSITION PLATFORMS 8.5B (SHOWN HERE) AND 8.5K ARE IDENTICAL TO TYPICAL PLATFORMS 8.5D, 8.5F AND 8.5H

TRANSITION PLATFORMS 16B (SHOWN HERE) AND 16K ARE IDENTICAL TO TYPICAL PLATFORMS 16D, 16F AND 16H

LEVEL 8.5 (DISPLAY 8)

LEVEL 8
A-520

POST (BEYOND) GLASS HANDRAIL WITH LIGHTING
LEANRAIL
SHADOW GAP
UPSTAND
PRECAST PAVER

MIN TOP OF LEANRAIL
+1220 mm
4' - 0 1/16"

TOP OF HANDRAIL
+950 mm
3' - 1 3/8"

TOP OF UPSTAND
+100 mm
3 15/16"

FINISHED FLOOR LEVEL
+0 mm
0"

TOP OF STEEL
-215 mm
-8 7/16"

NOTES
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MIN TOP OF LEANRAIL +1220 mm / 4' - 0"
TOP OF HANDRAIL +950 mm / 3' - 1 3/8"
TOP OF UPSTAND +100 mm / 3 15/16"
FINISHED FLOOR LEVEL +0 mm / 0"
TOP OF STEEL -215 mm / -8 7/16"

2 A-520 [14' - 10 5/16"]

4529 POST (BEYOND) GLASS
HANDRAIL WITH LIGHTING
LEANRAIL SHADOW GAP
UPSTAND PRECAST PAVER

2 KEY DIAGRAM

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PLATFORM CROSS SECTION (LEVEL 13)

Hudson Yards Vessel

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Structural Engineer Thornton Tomasetti, Inc.
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Fire Alarm, Fire Protection, Security
Ove Arup & Partners P.C.
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Construction Manager Tishman Construction Corporation
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Tel: 212.708.6800

Executive Architect

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NEW YORK, NY

D.O.B. BUILDING PERMIT FILING

Sheet 65 OF 86
REFER TO A-600 SERIES

VARIES CLEAR HEIGHT MAINTAINED ON ALL STAIRS

- Top of Lean Rail: 2134 mm (7' - 0")
- Top of Hand Rail: 2134 mm (7' - 0") +1220 mm (4' - 0")
- Top of Upstand: 2134 mm (7' - 0") +100 mm (3 15/16"")
- Top of Steel Plate: 2134 mm (7' - 0") -300 mm (-11 13/16")

THIS SETTING OUT IS DESCRIBED IN DRAWINGS A-100 TO A-116. ANY DEVIATION FROM THIS GEOMETRY MUST BE REVIEWED.
LEANRAIL DETAIL (PIVOTAL)

THE GUARDRAILS ON THE VESSEL ARE SET OUT AS TO TRANSITION FROM PLATFORM TO STAIR IN ONE JOINT.

BECAUSE THE ANGLE OF THE LEANRAIL CHANGES AT THIS JOINT IN BOTH PLAN AND ELEVATION, A COMPOUND MITRE IS REQUIRED TO JOIN THE PLATFORM LEANRAIL TO THE STAIR LEANRAIL. THIS RESULTS IN DIFFERENCE IN ROTATION OF THE LEANRAIL PROFILE SHAPE BETWEEN EACH CONNECTING PLATFORM AND STAIR JOINT.

A-525

THE GUARDRAIL CONNECTION DETAIL (TO BE DEVELOPED BY THE GUARDRAIL TRADE CONTRACTOR) WILL ACCOMODATE THIS ROTATION.

MIN TOP OF LEANRAIL
+1220 mm
4' - 0 1/16"

A-525

Client
Related Companies
60 Columbus Circle
New York, NY 10023
Tel: 212.986.7514 Fax: 212.986.3751

TOP OF HANDRAIL
+950 mm
3' - 1 3/8"

A-525

TOP OF UPSTAND
+100 mm
3 15/16"

A-525

CENTERLINE OF GLASS
0°

EXAMPLE ROTATION BETWEEN PLATFORM
LEANRAIL AND STAIR SHOWN BLACK

OVERHANG OF PRECAST ELEMENT REQUIRED TO COVER EDGE OF INBOARD FASCIA

REMOVABLE STAINLESS STEEL FASCIA MOUNTED ON BACKING SUPPORT

DIMENSION OF CLADDING VARIES WITH LEANRAIL ROTATION ANGLE TO PROVIDE PROFILE ROTATION POINT

ALIGN BOTTOM EDGE
PRECAST LEANRAIL

OVERALL HEIGHT OF LEANRAIL VARIES WITH ROTATION ANGLE

GLASS
R 19 mm
[8 1/2"

1 : 5

STAIR PITCH LINE
TOP OF UPSTAND
+100 mm
3 15/16"

CENTERLINE OF GLASS
0°

EXAMPLE ROTATION BETWEEN PLATFORM
LEANRAIL AND STAIR SHOWN BLACK

OVERHANG OF PRECAST ELEMENT REQUIRED TO COVER EDGE OF INBOARD FASCIA

REMOVABLE STAINLESS STEEL FASCIA MOUNTED ON BACKING SUPPORT

DIMENSION OF CLADDING VARIES WITH LEANRAIL ROTATION ANGLE TO PROVIDE PROFILE ROTATION POINT

ALIGN BOTTOM EDGE
PRECAST LEANRAIL
STAIR AND PLATFORM NAMING DIAGRAM

STAIR SCHEDULE

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1 Document Issue 1 05/15/14

2.0-SP(M) 17 16 178 7" 1545 5' - 0 13/16" 5156 16' - 11"

3.0-SP(M) 18 17 178 7" 1450 4' - 9 1/16" 5201 17' - 0 3/4"

4.0-TY(M) 17 16 178 7" 1545 5' - 0 13/16" 5156 16' - 11"

5.0-SP 17 16 178 7" 1571 5' - 1 7/8" 5045 16' - 6 5/8"

6.0-J / 6.5-K

7.0-J / 7.5-K

LEVEL 1.0

LEVEL 1.5

LEVEL 2.0

LEVEL 2.5

LEVEL 3.0

LEVEL 3.5

LEVEL 4.0

LEVEL 4.5

LEVEL 5.0

LEVEL 5.5

LEVEL 6.0

LEVEL 6.5

LEVEL 7.0

LEVEL 7.5

LEVEL 8.0
- Notes on the drawing:
  - Do not scale this drawing work to figured dimension only.
  - All dimensions are in millimetres unless otherwise stated.
  - All dimensions to be confirmed prior to fabrication.
  - Heatherwick Studio shall be notified in writing of any discrepancies requesting verification.

- Dimensions and measurements are provided in the drawing, indicating various levels, soffits, and dimensions related to the pedestal paving plan.
SLAB LEVEL
10.363 m / 34' - 0"

PLAZA SURFACE LEVEL
12.344 m / 40' - 6"

PEDESTAL LEVEL
13.716 m / 45' - 0"
14.564 m / 48' - 4"
18.878 m / 61' - 11"

GRILLAGE LEVEL
10.897 m / 35' - 9"

GRILLAGE DESIGN BY STRUCTURAL ENGINEERS (SHOWN INDICATIVELY)

STONE PAVING
SOLID STONE BLOCK
STEP
RAMP
TERRACE
ROUGH TEXTURED SURFACE
EXIT STAIR
TERRACE
SOLID STONE BLOCK

NOTE: Do not scale this drawing work to figured dimension only.

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FIRE ALARM, FIRE PROTECTION, SECURITY
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CONSTRUCTION MANAGER: TISHMAN CONSTRUCTION CORPORATION
100 Park Avenue
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CORNER DETAIL TO BE DEVELOPED
WITH LANDSCAPE CONSULTANT
AND STONE TRADE CONTRACTOR

WALKING SURFACE
FLAMED FINISH
STONE BEDDING DETAIL TBD

[Diagram with dimensions and notes]
TOP OF GRILLE FLUSH WITH WALKING SURFACE
SECONDARY GRILLE SUPPORTS SET BACK BELOW LIGHTING FIXTURE TO LIGHTING CONSULTANT SPECIFICATION
DRAINAGE TO LIGHTING PIT TO BE DEVELOPED WITH MEP ENGINEERS
STONE PAVER SET IN TO ACCESS HATCH
2" MINIMUM CLEAR SPACE AROUND EACH LIGHT FIXTURE OR AS REQUIRED BY LIGHTING CONSULTANT SPECIFICATION
FRAME TO BE DEVELOPED EQUIPMENT ACCESSED VIA HATCH
STONE LINING TO PIT TO MATCH WALKING SURFACES
ACCESS TO VOID BELOW
ACCESS HATCH OPENING STRATEGY DESIGN TO BE DEVELOPED
FRAMING TO ACCESS OPENING TO BE AS DISCREET AS POSSIBLE AND TO MATCH GRILLE FINDS IN APPEARANCE
OUTLINE OF LIGHTING FIXTURES TO LIGHTING CONSULTANT SPECIFICATION BELOW GRILLE

NOTES
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· All dimensions are in millimetres unless otherwise stated.
· All dimensions to be confirmed prior to fabrication.
· Heatherwick Studio shall be notified in writing of any discrepancies requesting verification.
## Structural Drawing List

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STANDARD DOGBONE COMPONENTS

SPINE DOGBONE COMPONENTS
NOTES:
- THE INFORMATION ON THIS DRAWING IS PRELIMINARY AND TO BE FINALIZED BASED ON DYNAMIC SIMULATION AND AN APPROVED SET OF VIBRATION CRITERIA FOR EACH INTENDED OPERATING SCENARIO. THE FOLLOWING PARAMETERS ARE TO BE FINALIZED:
  - NUMBER, SIZE, LOCATION AND PROPERTIES TO BE COORDINATED WITH TMD SUPPLIER
  - ACCESS OPENINGS AND REQUIRED REINFORCEMENT
  - MOUNTING DETAILS AND ACCESS FOR INSTALLATION, MAINTENANCE AND ADJUSTMENT.
NOTES:
- THE INFORMATION ON THIS DRAWING IS PRELIMINARY AND TO BE FINALIZED BASED ON COORDINATION WITH AUTOMATIC GATE SUPPLIER. THE FOLLOWING PARAMETERS ARE TO BE FINALIZED:
  - GATE OPENING DIMENSIONS
  - ACCESS OPENINGS IN STRUCTURE, IF ANY, AND REQUIRED REINFORCEMENT
  - MOUNTING DETAILS AND ACCESS FOR INSTALLATION, MAINTENANCE AND ADJUSTMENT.

LEVEL L03
LEVEL L02
LEVEL L01

GATE LINE
GATE EQUIPMENT INCREASED U/S INDIVIDUAL GT ASSIGNED
GATE GUIDE SYSTEM AND COVER PLATES
REMOVABLE CLADDING FINISHES

SECTION

NOTE:
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GATE OPENING DIMENSIONS
ACCESS OPENINGS IN STRUCTURE, IF ANY, AND REQUIRED REINFORCEMENT
MOUNTING DETAILS AND ACCESS FOR INSTALLATION, MAINTENANCE AND ADJUSTMENT.
Details for Facade Elements:

1. Typical Section Details
2. Typical Section Details
3. Detail
4. Detail
5. Detail
6. Detail
7. Detail
8. Detail

FACADE ELEMENTS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

For dimensions, see S-510.
**TYPICAL SECTIONS DETAILS**

1. **DETAIL**
   - Ramp top plates
   - Connection plates
   - Longitudinal stiffeners
   - Connection plates

2. **DETAIL**
   - Ramp top plate
   - Connection plates
   - Longitudinal stiffeners
   - Connection plates

3. **DETAIL**
   - Ramp top plate
   - Connection plates
   - Longitudinal stiffeners
   - Connection plates

**NOT FOR CONSTRUCTION**

**DATE:**

**DOCUMENT ISSUE 01**

**DOCUMENT ISSUE 02**

**DOCUMENT ISSUE 08**

**Filename:** C:\Users\MGedig\Documents\Work\Vessel\CAD\AutoCAD\Submittal 03172015\HYE-VS-S-501R2.dwg

**Plotted by:** Gedig, Michael

**Plot Time:** 3/23/2015 1:25 PM

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**NEW YORK, NY**
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  - NUMBER, SIZE, LOCATION AND PROPERTIES TO BE COORDINATED WITH TMD SUPPLIER
  - ACCESS OPENINGS AND REQUIRED REINFORCEMENT
  - MOUNTING DETAILS AND ACCESS FOR INSTALLATION, MAINTENANCE AND ADJUSTMENT.

SECTION

1. TMD MOUNT PLAN

- OPENING FOR INSTALLATION OF THE MOUNTING COVER PLATE
- MOUNTING BOLT

2. TMD VOLUME

- TBD

MAIN OPENING FOR INSTALLATION OF TMD WITH BOLTED COVER PLATE

ADDITIONAL OPENINGS FOR ACCESS TO MOUNTING BOLTS IF REQUIRED

OPENING REINFORCEMENT IF REQUIRED

TMD MOUNTING BOLT

3'-7" TBD

OPENING TBD

4'-7" TBD

OPENING TBD

TMD VOLUME TBD

01

Date

Project No.

Drawn By

No.

Key Plan

Issue

Date

Filename: C:\Users\MGedig\Documents\Work\Vessel\CAD\AutoCAD\Submittal 03172015\DI-08 03232015\HYE-VS-S-503R1.dwg

Plotted by: Gedig, Michael

Plot Time: 3/23/2015 1:25 PM
## MAIN INTERLAYER PLATES

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## WALKWAY PLATES

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## DIAPHRAGM PLATES

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## MAIN STIFFENER PLATES

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## WALKWAY STIFFENER PLATES

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*Number and location of plates is indicative only.
NOTE: FINAL WELD CONFIGURATION AND SEQUENCE TO BE BASED ON REVIEW OF FABRICATOR DETAILS.
SECTION 2

1 ELEVATION AT PULL BOX

SECTION 4

1 ELEVATION

SECTION

3 ELEVATION

SECTION

NOTES:
- DETAILS FOR CLOSURE PLATES TO MEP OPENINGS TO BE DEVELOPED WITH ARCHITECT
- WHERE APPROPRIATE OPENINGS FOR PULL BOXES AND SPLICES MAY BE COMBINED

PLURAL PLATE  1

ESPLICE PLATE  1

EDGE REINFORCING PLATE TYP.

28 - M36 A490M SC-B

PERMANENT MEP ACCESS OPENING

TEMPORARY OPENING FOR MEP INSTALLATION AND SPINE SPLICE INSTALLATION

1'-6" [457]

2'-9" [838]

3'-4" [1016]

4" [100]

TYP.

6" [152]
OUTLINE OF BASE BOTTOM FLANGE

FLANGE STIFFENERS TO BE COORDINATED WITH GRILLAGE BELOW WEB OF GRILLAGE BEAM BELOW STIFFENER PL 25 X 250 TYP

SHELL PLATES 30 THICK U/N PL 30 8" [200]

2'-4" [716] 2'-0" [600]

5 S-711

S-711 DETAIL

BASE FLANGE 3" [70] GROUT 3" [70] GRILLAGE BEAM FLANGE 1 3/8" [35] 150KSI ANCHOR ROD

2" [40] 4" [100] PLATE WASHER

CONCRETE COVER ON GRILLAGE ADDITIONAL CONCRETE COVER AT PEDESTAL AS REQUIRED

SHIM ALLOWANCE TYP STIFFENER TO FLANGE TYP

STIFFENER PL 30 X 200 X 700 TYP

WALL CORNERS TYP

PL 30 30 X 200 X 700 TYP

SLEEVE GROUT
**BASE PLAN**

**BASE ELEVATION**

**AXONOMETRIC**

- **MEP OPENINGS**
  - Upper Ring Connections
  - Lower Ring Connections

- **Bolted Flange Interface** to Vessel

- **Grout Bed**

- **T.O. Grillage**
  - **T.O. Reveal**
  - Base Elevation

- **T.O. C.I.P.**
  - **Concrete Slab**
  - **T.O. Pedestal**
  - Finished Surface

**Notes:**

- **PRELIMINARY**
  - **NOT FOR CONSTRUCTION**

- **HUDSON YARDS VESSEL**

- **FILENNAME:** C:\Users\MGedig\Documents\Work\Vessel\CAD\AutoCAD\Submittal 03172015\DI-08 03232015\HYE-VS-S-720R1.dwg

- **Plotted by:** Gedig, Michael
  - **Plot Time:** 3/23/2015 1:26 PM
**ASSUMED TONNAGE IS 2300-2500T (METRIC).**

**DETAILED BREAKDOWN BASED ON AN AVERAGE OF 2400T (METRIC) SHOWN BELOW.**

<table>
<thead>
<tr>
<th>Level</th>
<th>Metric Tons</th>
<th>Imperial Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>35</td>
<td>39</td>
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<tr>
<td>15</td>
<td>100</td>
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<td>2</td>
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<td>171</td>
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<tr>
<td>1</td>
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**Total**

Metric: 2400
Imperial: 2640

**Breakdown by Plate**

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<tr>
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<tr>
<td>12mm</td>
<td>315</td>
<td>347</td>
</tr>
<tr>
<td>15mm</td>
<td>730</td>
<td>803</td>
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<tr>
<td>20mm</td>
<td>280</td>
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<tr>
<td>25mm</td>
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<tr>
<td>Stiffeners/Diaph.</td>
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<td>248</td>
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<tr>
<td>Soffit sup. (8-15mm)</td>
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<td>Splices</td>
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**Total**

Metric: 2400
Imperial: 2640

**Vessel Pedestal**

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>Elevator Steel</td>
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<tr>
<td>Grillage</td>
<td>630</td>
<td>695</td>
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**Tonage Breakdown**

<table>
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<tr>
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<tr>
<td>Elevator Steel</td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>Grillage</td>
<td>630</td>
<td>695</td>
</tr>
</tbody>
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**Notes:**

- Assumed tonnage is 2300-2500T (Metric).
- Detailed breakdown based on an average of 2400T (Metric).
<table>
<thead>
<tr>
<th>Draw No.</th>
<th>X</th>
<th>Y</th>
<th>W</th>
<th>Z</th>
<th>M3 MIN</th>
<th>M3 MAX</th>
<th>M1 MIN</th>
<th>M1 MAX</th>
<th>M2 MIN</th>
<th>M2 MAX</th>
<th>S</th>
<th>T</th>
<th>Width</th>
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**Fire Alarm, Fire Protection, Security**

New York, NY 10023

ES593739919

S-861.00
**Connection Forces**

### U-1.2D+1.6L+S-T1-60-40

<table>
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### U-1.2D+1.6L+S-T2

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### U-1.2D+1.6L+S+T1+60+40

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### U-1.2D+1.6L+S+T4+60+40

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### U-0.9D+1.6W8

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**Connection Forces**

### U-1.2D+1.6L+S+T1

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### U-1.2D+1.6L+S+T4

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### U-0.9D+1.6W8

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</tbody>
</table>

### Tel: 44(0)20 7833 8800

Fax: 212.977.6500

Tel: 212.977.6500

Fax: 212.977.6500

Tel: 212.977.6500

Fax: 212.977.6500

**Connection Forces**

### M1 MAX

<table>
<thead>
<tr>
<th>No.</th>
<th>977</th>
<th>978</th>
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### M1 MIN

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<tr>
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### M2 MAX

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### M2 MIN

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### M3 MAX

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### M3 MIN

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**Plot Time:**

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</table>

**Architect:**

100 Park Avenue
| M1 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

**Related Companies**

- Thornton Tomasetti, Inc.
- VESSEL
- ES637371979
- 121191183
PROFESSIONAL'S STATEMENT
IN THE MATTER OF THIS PROJECT, WE ARE PROFESSIONAL
ARCHITECTS LICENSED TO PRACTICE UNDER THE NEW YORK CITY ENGINEER CODE.

BUILDING DEPARTMENT NOTE
THIS PLAN IS APPROVED UNDER THE NEW YORK CITY ENGINEER CODE.

KEY PLAN:

HUDSON YARDS
530 WEST 33RD STREET
COUNTY: NEW YORK
BLOCK: 702
LOT: 175

W 33RD STREET
11TH AVENUE
W 30TH STREET
10TH AVENUE

APPROVED
UNDER DIRECTIVE 2 OF 1975

Date: 12/07/2016

Damian Titus
INTERIOR LIGHTING DESIGN ENERGY ANALYSIS

OCCUPANCY: BACK OF HOUSE
PROJECT IS BACK OF HOUSE SPACES TO SUPPORT EXTERIOR STARVELL.
NYCECC - 2014

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>PROPOSED DESIGN VALUE</th>
<th>CODE-PRESCRIBED VALUE</th>
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</thead>
<tbody>
<tr>
<td>LIGHTING POWER DENSITY</td>
<td>12089 W</td>
<td>10748 W</td>
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</table>

INTERIOR LIGHTING CONTROL NARRATIVE

LIGHTING FIXTURES ARE TO BE CONTROLLED VIA MANUAL OR AUTO-OFF TIMER SWITCH SET FOR 30 MINUTE INTERVALS.

---

EXTERIOR LIGHTING DESIGN ENERGY ANALYSIS

OCCUPANCY: EXTERIOR STAR
PROJECT B FOR 16 LEVELS, EXTERIOR STARVELL.

NYCECC - 2014

<table>
<thead>
<tr>
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<th>PROPOSED DESIGN VALUE</th>
<th>CODE-PRESCRIBED VALUE (LIGHTING ZONE: 4)</th>
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<tbody>
<tr>
<td>EXTERIOR LIGHTING POWER</td>
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<td>606 W</td>
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</table>

EXTERIOR LIGHTING CONTROL NARRATIVE

ALL EXTERIOR LIGHTING SHALL BE PROVIDED WITH A CONTROL THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN EXCESSIVE LIGHT IS AVAILABLE VIA PHOTO SENSOR ON THE EXTERIOR.

ALL STARVELL LIGHTING SHALL BE UN-SWITCHED NIGHT LIGHTS FOR 24 HOUR OPERATION.

---

LIGHTING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
<th>LAMPS</th>
<th>CONTROL GEAR</th>
<th>TOTAL WATS</th>
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</thead>
<tbody>
<tr>
<td>PRE2E</td>
<td>-</td>
<td>HI-OUTPUT SHADO LED FIXTURE</td>
<td>EA</td>
<td>1</td>
<td>LED 127W</td>
<td>277W</td>
</tr>
<tr>
<td>STE4</td>
<td>-</td>
<td>NON-DIMMABLE, OUTDOOR, INDOOR SURFACE MOUNT LED</td>
<td>LT</td>
<td>1</td>
<td>LED 12V</td>
<td>27W</td>
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<tr>
<td>STE15</td>
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<td>DIMMABLE, OUTDOOR PAR36 SURFACE MOUNT LED</td>
<td>LT</td>
<td>1</td>
<td>LED 12V</td>
<td>27W</td>
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<tr>
<td>DFL22</td>
<td>-</td>
<td>NON-DIMMABLE LIGHT FIXTURE FOR EXHAUST SPACE</td>
<td>EA</td>
<td>2</td>
<td>FLU 52W</td>
<td>277W</td>
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<tr>
<td>EXIT</td>
<td>-</td>
<td>EXIT LIGHT</td>
<td>FACE</td>
<td>1</td>
<td>LED 2.7W</td>
<td>27W</td>
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SYMBOL LIST (POWER AND LIGHTING)

- STAND ALONE WALL MOUNDED THERMOMETER WITH INTEGRAL ASTRONOMICAL TIME CLOCK. LETTER DESIGNATED ZONE.
APPROVED
Under Directive 2 of 1975
Date: 12/07/2016.

Damian Titus
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:

PROFESSIONAL'S STATEMENT
TO THE BEST OF OUR PROFESSIONAL JUDGMENT AND PROFESSIONAL EXPERTISE, THIS PLAN MEETS THE REQUIREMENTS OF THE CODES AND STANDARDS OF THE CITY OF NEW YORK.

BUILDING DEPARTMENT NOTE
THIS Plan IS APPROVED EXCEPT AS INDICATED ON THE SHEET IN QUESTION HEREIN. APPROVAL IS SUBJECT TO THE DIRECTION OF THE APPLICABLE CODES.
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:
**Interior Lighting Compliance Certificate**

**Exterior Lighting Compliance Certificate**

**Mechanical Compliance Certificate**

---

**Inspection Checklist**

**Introduction**

Date: 12/07/2016

**Damian Titus**

---

**Hudson Yards Vessel**

**Related Companies**

---

**Page Plumbing Corp.**

---

**JBB**

---

**Building Department Note**

---

**Professional’s Statement**

---
<table>
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<th>Description</th>
<th>Details</th>
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<td>DEPT OF BLDGS</td>
<td>Job Number - Scan Code</td>
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APPROVED
Under Directive 2 of 1975

Date: 12/07/2016

Damian Titus
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:

MECHANICAL MER PART PLAN
Under Directive 2 of 1975

Date: 12/07/2016

Damian Titus

APPROVED

LEVEL 1 PIPING PART PLAN

PRESIDENT LEVEL PIPING PART PLAN
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:
APPROVED
Under Directive 2 of 1975
Date:

Damian Titus
12/07/2016:
APPROVED
Under Directive 2 of 1975

Date:
Damian Titus
12/07/2016:
1- ELEVATION VIEW DRAIN DETAIL FOR PAVERS ON MUD SET

3-PLAN VIEW DRAIN DETAIL

4- ELEVATION VIEW DRAIN DETAIL FOR PAVERS ON PEDESTALS
GENERAL SPECIFICATIONS

1. REFERENCES TO GENERAL CONDITIONS AND SUPPLEMENTAL.

2. REFERECE TO THE CONTRACT DOCUMENTS

3. GENERAL

4. QUESTIONS CONCERNING THE CONTRACT DOCUMENTS

5. GENERAL SPECIFICATIONS

6. APPURTENANCES

7. CONTRACTOR'S WORK

8. APPLICABLE LAW

PLUMBING SPECIFICATIONS

1. GENERAL

2. APPURTENANCES

3. CONTRACTOR'S WORK

4. APPLICABLE LAW

5. APPURTENANCES

PLUMBING PUMPS

1. DESCRIPTION

2. INSTALLATION

3. OPERATION

4. MAINTENANCE

5. SPECIFICATIONS

6. COMPLIANCE WITH SCHEDULE

7. GENERAL

8. APPURTENANCES

9. CONTRACTOR'S WORK

10. APPLICABLE LAW

11. APPURTENANCES

PLUMBING MATERIALS

1. DESCRIPTION

2. INSTALLATION

3. OPERATION

4. MAINTENANCE

5. SPECIFICATIONS

6. COMPLIANCE WITH SCHEDULE

7. GENERAL

8. APPURTENANCES

9. CONTRACTOR'S WORK

10. APPLICABLE LAW

11. APPURTENANCES