### DEPT OF BLDGS Job Number Scan Code

**APPROVED**

Under Directive 2 of 1975

**Date:**

12/07/2016:

**Damian Titus**

---

### Building Area

<table>
<thead>
<tr>
<th>Building</th>
<th>Commercial Use</th>
<th>Residential Use</th>
<th>Community Facilities</th>
<th>Total Area by Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower C</td>
<td>2,613.74</td>
<td>1,453.74</td>
<td>0.00</td>
<td>4,152.37</td>
</tr>
<tr>
<td>Tower A &amp; Retail podium</td>
<td>7,393.70</td>
<td>1,636.70</td>
<td>0.00</td>
<td>9,068.70</td>
</tr>
<tr>
<td>Tower D</td>
<td>1,741.70</td>
<td>1,741.70</td>
<td>0.00</td>
<td>3,483.40</td>
</tr>
<tr>
<td>Culture Shed</td>
<td>7,683.60</td>
<td>7,683.60</td>
<td>0.00</td>
<td>15,367.20</td>
</tr>
<tr>
<td>Tower E</td>
<td>1,189.60</td>
<td>694.60</td>
<td>0.00</td>
<td>1,984.20</td>
</tr>
</tbody>
</table>

Total FARR by Use:

- 4,883,834
- 1,229,660
- 76,302

Total FARR by Use:

- 8,572
- 2,157
- 0.13

Total FARR by all uses:

- 6,191,796

Total FARR by all uses:

- 10,863

---

1. Areas shown on plan are in accordance with the Department of Buildings. These areas are calculated to provide an overview of the area of the building, including the footprint, setback, and frontage. The information is based on the Department of Buildings requirements.

2. Areas shown on plan are in accordance with the Department of Buildings. These areas are calculated to provide an overview of the area of the building, including the footprint, setback, and frontage. The information is based on the Department of Buildings requirements.

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FOR REFERENCE ONLY

**THIS PAGE WAS ORIGINALLY PREPARED UNDER NB APPLICATION #121186251**

**BY KOHN PEDERSON FOX ASSOCIATES, PC**
1. Precast concrete leanrail with exposed aggregate
   (Profile and surface finish to be confirmed in mockup)
2. Precast concrete paver with exposed aggregate
   (Profile and surface finish to be confirmed in mockup)
3. Carbon steel
   3mm thickness
   (Heavy shot peened finish to be confirmed in mockup)
   Exposed weld to match stainless steel colour
4. Moulded precast concrete stair tread with exposed aggregate
   2mm thickness
   316L stainless steel
   Smooth surface finish TBD (Profile and surface finish to be confirmed in mockup)
   (Colour to be confirmed in mockup)
5. Granite 'Jet Mist'
   Elements to span distances between guardrail posts
6. To match approved sample: VES-XX-SA-XX0024
   Smooth surface finish TBD (Profile and surface finish to be confirmed in mockup)
   (Colour to be confirmed in mockup)
7. To match 'Wausau Tile' H15-266  (To be confirmed in mock up)
   (Colour to be confirmed in mock-up)

1.4m/1.5m maximum panel width

Benchmark sample 'Wausau Tile' H15-266  (To be confirmed in mock up)
Grey to match RAL 7021 (Black Grey)

Heatherwick Studio shall be notified in writing of any discrepancies
NOTES:

- PROJECT SET OUT ON A RADIAL GRID WITH ROTATIONALLY SYMMETRICAL AND MIRRORED SEGMENTS.
- THERE ARE 10 GRIDLINES V.A - V.K.
- AT GRIDLINE VA-VA SPINE ELEMENT SUPPORTS AN ELEVATOR TRACK.
- THE PROJECT IS SYMMETRICAL ABOUT GRIDLINE V.A-V.F THEREFORE ALL SEGMENTS BETWEEN GRIDLINES V.A-V.B AND V.K-V.A 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.

CLIENT:

- Related Companies
- 60 Columbus Circle
- New York, NY 10023
- Tel: 212.801.1000
- Fax: 212.801.1048

ARCHITECT:

- Kohn Pedersen Fox Associates PC
- Architects & Planning Consultants
- 11 West 42nd Street
- Tel: 212.977.6500
- Fax: 212.956.2526

DESIGN ARCHITECT:

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- London WC1X 8BH
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- Tel: 44(0)20 7833 8800

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- Fax: 917.661.7801

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FIRE ALARM, FIRE PROTECTION, SECURITY

- Ove Arup & Partners P.C.
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- New York, NY 10005
- Tel: 212.896.3000

CONSTRUCTION MANAGER:

- Tishman Construction Corporation
- 100 Park Avenue
- Tel: 212.708.6800
V.E
V.F
V.G
V.H
V.J
V.K
V.L
V.M
V.N
V.O
V.P
V.Q
V.R
V.S
V.T
V.U
V.V
V.W
V.X
V.Y
V.Z

LEGEND
INTERLAYER
CAVITY BEHIND SOFFIT CLADDING

LEVEL 1.5 PLAN
(DISPLAY 1)

18.878m / 61'-11 1/4"

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HUDSON YARDS VESSEL

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NOTES
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1 Document Issue 1 05/15/14
2 Document Issue 2 08/29/14
3 Document Issue 3 12/22/14
4 Document Issue 10 05/29/15
5 Document Issue 12 25/03/16

EXECUTIVE ARCHITECT

damian titus

12/07/2016:

APPROVED
UNDER DIRECTIVE 2 OF 1975

DEPT OF BLDGS Job Number Scan Code

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

LEVEL 1.5 PLAN
(DISPLAY 1)

SHEET 08 OF 86

25/03/2016 18:41:33 C:\BIM\731_VESSEL_MASTER_laurence.rvt

LEVEL 1.5 (DISPLAY 1)
NOTES

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LEGEND

INTERLAYER
CAVITY BEHIND SOFFIT CLADDING

LEVEL 3 PLAN (DISPLAY 3)
LEVEL 1 PLAN
(DISPLAY 1)

LEVEL 2 PLAN
(DISPLAY 2)

LEVEL 3 PLAN
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LEVEL 4 PLAN
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LEVEL 5 PLAN
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LEVEL 86 PLAN
(DISPLAY 86)
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PLATFORM COMPONENT DIAGRAM

- O.G. HANDRAIL
- O.G. POST
- O.G. GLASS
- O.G. LEANRAIL
- O.G. UPSTAND
- PC-4
- G-1
- SS-4
- S-1
- G-1
- SS-1
- G-1
- SS-3
- G-1
- SS-3
- G-1
- SS-4
- G-1
- SS-2
- G-1
- SS-2
- G-1
- SS-3
- G-1
- SS-3
- G-1
- SS-4
- S-2
- I.G. HANDRAIL
- I.G. POST
- I.G. GLASS
- I.G. UPSTAND
- O.G. INBOARD LEANRAIL FASCIA
- I.G. LEANRAIL FASCIA
- I.G. LEANRAIL
- I.G. HANDRAIL (SHOWN ON OPPOSITE SIDE OF GLASS)
- I.G. POST
- I.G. GLASS
- I.G. UPSTAND (SHOWN ON OPPOSITE SIDE OF GLASS)
- SOFFIT CLADDING FASCIA
- EXPOSED STRUCTURAL DECK
- INTERLAYER BARRIER (IB.G.)
- INNER GUARDRAIL (I.G.)
- OUTER GUARDRAIL (O.G.)
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL

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

[Diagram with dimensions and notes]
CUT PLANE LEVEL 1250mm ABOVE FFL

CUT PLANE LEVEL 500mm ABOVE FFL

CUT PLANE LEVEL 1250mm ABOVE FFL

CUT PLANE LEVEL 500mm ABOVE FFL

PROJECT MINIMUM EGRESS WIDTH

PAVING SET OUT FROM CENTRE
OF PLATFORM AS SHOWN

LEVEL 08 34.720 m  /  113' - 11"

LEVEL 08 34.720 m  /  113' - 11"

[16' - 7"

5055

[15' - 3 15/16"

4672

[3' - 9"

1143

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36° 36° 36°

V.D
A-412

CUT PLANE LEVEL 1250mm ABOVE FFL

CUT PLANE LEVEL 1250mm ABOVE FFL

V.F
V.H

LEVEL 12 46.468 m  /  152' - 5 1/2"

LEVEL 12 46.468 m  /  152' - 5 1/2"

[3' - 9"

1143

PROJECT MINIMUM EGRESS WIDTH

PAVING SETTING OUT FROM CENTRE OF PLATFORM AS SHOWN

[15' - 2"

4622

[28' - 5 1/2"

8674
APPROVED
Under Directive 2 of 1975
Date:
Damian Titus
12/07/2016:
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 01 16.564 m / 54' - 4"

LEVEL 02 18.878 m / 61' - 11"

LEVEL G

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

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

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

ELEVATOR BARRIER
EMERGENCY PERSONNEL ACCESS ONLY

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

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

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

ELEVATOR BARRIER
EMERGENCY PERSONNEL ACCESS ONLY

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HUDSON YARDS VESSEL
530 WEST 33RD STREET
NEW YORK, NY

EXECUTIVE ARCHITECT
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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

[16' - 7"
5055

[24' - 6 1/8"
7471

[14' - 7 1/8"
4448

[6 5/16"
161

[6 1/2"
165

[6 7/16"
163

[3' - 9"
1143
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

[2' - 0"
[15' - 10 11/16"
4844

EQ

[26' - 11 1/4"
8210

EQ

[17' - 7 7/16"
5371

EQ

[6 1/2"
165

EQ

[6 3/8"
162

EQ

[5 7/8"
148

EQ

[6 7/16"
164

EQ

[6 1/2"
165

EQ

[3' - 9"
1143

LEVEL 10
40.416 m  /  132' - 7"

LEVEL 11
43.442 m  /  142' - 6 1/2"

NOTES:
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TRANSITION PLATFORMS 10B (SHOWN HERE) AND 10K ARE IDENTICAL TO TYPICAL PLATFORMS 10D, 10F AND 10H

TRANSITION PLATFORMS 5.5B (SHOWN HERE) AND 5.5K ARE IDENTICAL TO TYPICAL PLATFORMS 5.5D, 5.5F AND 5.5H
CUT PLANE LEVEL 1250mm ABOVE FFL
CUT PLANE LEVEL 500mm ABOVE FFL

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

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

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ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESS ONLY

ELEVATOR BARRIER EMERGENCY PERSONNEL ACCESSONLY
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1250mm ABOVE FFL

DIMENSIONS SHOWN TO CENTRE OF PLATFORM GUARDRAIL
SEE DIAGRAM ON A-401

NOTES:
· 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.

TRANSITION PLATFORMS 14B (SHOWN HERE) AND 14K ARE IDENTICAL TO TYPICAL PLATFORMS 14D, 14F AND 14H

TRANSITION PLATFORMS 7.5B (SHOWN HERE) AND 7.5K ARE IDENTICAL TO TYPICAL PLATFORMS 7.5D, 7.5F AND 7.5H
CUT PLANE LEVEL 500mm ABOVE FFL
CUT PLANE LEVEL 1300mm ABOVE FFL

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

ELEVATOR CAR

LEVEL 15
56.080 m  /  184' - 0"
LEVEL 16
59.284 m  /  194' - 6"

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

DIMENSIONS TO CENTRELINE OF PLATFORM GUARDRAIL

ELEVATOR ENTRANCE

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

NOTES
· 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.

NOT FOR CONSTRUCTION

HUDSON YARDS VESSEL
530 WEST 33RD STREET
NEW YORK, NY

EXECUTIVE ARCHITECT
HEATHERWICK STUDIO
356-364 GRAYS INN ROAD
LONDON WC1X 8BH
UNITED KINGDOM

CONCEPT ARCHITECT
KOHN PEDERSEN FOX ASSOCIATES PC
ARCHITECTS & PLANNING CONSULTANTS
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NEW YORK, NY

CONSTRUCTION MANAGER
TISHMAN CONSTRUCTION CORPORATION
100 PARK AVENUE
NEW YORK, NY

THORNTON TOMASETTI, INC.
51 MADISON AVENUE
NEW YORK, NY

OVE ARUP & PARTNERS P.C.
77 WATER STREET
NEW YORK, NY

OXFORD PROPERTIES GROUP
320 PARK AVENUE, 17TH FLOOR
NEW YORK, NY

RELATED COMPANIES
60 COLUMBUS CIRCLE
NEW YORK, NY

ARCHITECT
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CLIENT
RELATED COMPANIES
60 COLUMBUS CIRCLE
NEW YORK, NY

EXECUTIVE ARCHITECT
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NEW YORK, NY

ARCHITECT
KOHN PEDERSEN FOX ASSOCIATES PC

CLIENT
RELATED COMPANIES
60 COLUMBUS CIRCLE
NEW YORK, NY
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 GUARDRAIL

NOTES:
TRANSITION PLATFORMS 16B (SHOWN HERE) AND 16K ARE IDENTICAL TO TYPICAL PLATFORMS 16D, 16F AND 16H
TRANSITION PLATFORMS 8.5B (SHOWN HERE) AND 8.5K ARE IDENTICAL TO TYPICAL PLATFORMS 8.5D, 8.5F AND 8.5H

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A-520

POST (BEYOND) GLASS

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

· Do not scale this drawing work to figured dimension only.
· All dimensions are in millimetres unless otherwise stated.
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· Heatherwick Studio shall be notified in writing of any discrepancies requesting verification.

平台横断面 (水平03)

方案图

1 Document Issue 1 05/15/14
2 Document Issue 2 08/29/14
3 Document Issue 3 12/22/14
4 Document Issue 10 05/29/15
5 Document Issue 12 25/03/16

Chief Architect

Kohn Pedersen Fox Associates PC

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Heatherwick Studio

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结构工程师

Thornton Tomasetti, Inc.

51 Madison Avenue

New York, NY 10010

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土木、机械、电气、管道、

消防报警、防火保护、安全

Ove Arup & Partners P.C.

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施工总承包

Tishman Construction Corporation

100 Park Avenue

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REFER TO A-600 SERIES

VARIES CLEAR HEIGHT MAINTAINED ON ALL STAIRS

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"

STAIR PITCH LINE +0 mm / 0"

TOP OF STEEL -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

LEVEL 04 +23.862 m / +78' - 3 1/2"

LEVEL 03 +21.014 m / +68' - 11 1/2"

INTERLAYER ABOVE SHOWN DASHED

UP INTERLAYER BARRIER CENTRE LINE

INNER / OUTER GUARDRAIL CENTRE LINE

HANDRAIL CENTRE LINE

STAIR DETAILS (STAIR TYPE 03-TY)
STAIR BASE DETAIL

All dimensions to be confirmed prior to fabrication.

STAIR TOP DETAIL

All dimensions are in millimetres unless otherwise stated.

Heatherwick Studio shall be notified in writing of any discrepancies.

KEY DIAGRAM

STAIR CROSS SECTION

Do not scale this drawing work to figured dimension only.

STAIR TYPICAL DETAIL

STAIR SECTION

APPROVED
Under Directive 2 of 1975
Date:

Damian Titus
12/07/2016:
STAIR PITCH LINE

RECESS

HANDRAIL TERMINATES INTO UPSTAND STONE PAVING

HANDRAIL CENTRE LINE

HANDRAIL TERMINATION T.B.D

[5 7/8"] R 149 mm

[3 15/16"] R 100 mm

[1' - 10 1/8"] 561

[1' - 1 3/4"] 349
THE GUARDRAILS ON THE VESSEL ARE SET OUT 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.

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

DIMENSION OF CLADDING VARIES WITH LEANRAIL ROTATION ANGLE TO PROVIDE ALIGN BOTTOM EDGE OVERALL HEIGHT OF LEANRAIL VARIES WITH ROTATION ANGLE

LEANRAIL INBOARD FASCIA VARIES TO PROVIDE CONSISTENT GAP INBOARD FASCIA HEIGHT ON PLATFORM

HEIGHT OF INBOARD FASCIA VARIES ON PLATFORMS TO ALIGN CORNER WITH STAIR ELEMENT

TOP OF HANDRAIL

 Handrail (See Drawing A-530)

GLASS

Post

Thornton Tomasetti, Inc.

Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security

Ove Arup & Partners P.C.

1:1.5

1:2

1:5

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Tishman Construction Corporation

100 Park Avenue

Tel: 212.708.6800

Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security

Ove Arup & Partners P.C.
All dimensions to be confirmed prior to fabrication.

Handrail extends minimum one tread depth beyond the first step.

STAIR TYPE 3.5

STAIR TYPE 3.0-TY

STAIR TYPE 5.5-TY

STAIR WIDTH DIMENSIONS GIVEN BETWEEN GUARDRAIL CENTRE LINES

Heatherwick Studio shall be notified in writing of any discrepancies.

Oxford Properties Group

Kohn Pedersen Fox Associates PC

Heatherwick Studio

Structural Engineer

Civil, Mechanical, Electrical, Plumbing,

Confidential

Document Issue 12 25/03/16

NOT FOR REPRODUCE

LEVELS

LEVEL 1.5

LEVEL 1.0

LEVEL 2.5

LEVEL 5.5

LEVEL 7.0

LEVEL 8.5

36°

1 : 20

4790

4200

36°

1 : 20

1462

1469

4937

1 : 20

130

130

130

130

8' - 0 3/16"
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 FINS IN APPEARANCE

LIGHTING GRILLE DESIGN TO BE DEVELOPED
STONE PAVER SET INTO ACCESS HATCH
FRAMING TO ACCESS OPENING TO BE AS DISCREET AS POSSIBLE AND TO MATCH GRILLE FINS IN APPEARANCE
OUTLINE OF LIGHTING FIXTURES TO LIGHTING CONSULTANT SPECIFICATION BELOW GRILLE
STRUCTURAL DRAWING LIST

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OVERALL DEPTH

WIDTH OF FLANGES

SQUARENESS

PLATE DISTORTION

WEB OR FLANGE STRAIGHTNESS

LENGTH (ON CENTRE LINE)

CURVED OR CAMBERED

SQUARENESS OF ENDS (FOR FULL CONTACT BEARING)

POSITION OF Holes

POSITION OF VESSEL AT BASE

LEVEL OF COLUMN AT BASE

WEB STIFFENERS [PLANE TO PLATE AFTER WELDING]

WEB STIFFENERS [STRAIGHTNESS IN PLANE WITH PLATE AFTER WELDING]

GAP BETWEEN BEARING SURFACES

ALIGNMENT OF ADJACENT PERIMETER COLUMNS

LANDING LEVEL
1. STANDARD DOGBONE COMPONENTS

2. SPINE DOGBONE COMPONENTS
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 the TMD supplier.
- Access openings and required reinforcement.
- Mounting details and access for installation, maintenance and adjustment.

**AXONOMETRIC VIEW OF UPPER LEVELS**

**ELEVATION**
SECTION

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.
VARNISH AT BOTTOM CORNERS OF RISER TYP E/S

FIELD INSTALLED TREADS WITH ABSOLUTE SUPPORT AT FIELD INSTALLED TREADS IN A 3'-0" [900] MIN DISTANCE FROM ANY HANDRAIL POST TO STRINGER JOINT

FLUSH BOLTED TREAD WITH ANGLE SUPPORT (AT FIELD INSTALLED TREADS ONLY)

LONGITUDINAL STIFF'NER CONNECTION PLATES

RAMP TOP PLATE CONNECTION PLATES

3'-0" [900] STRINGER JOINT

TYP E/S EXCEPT AT BOLTED TREADS

BOLTED STRINGER JOINT

FLUSH MOUNT FASTENER

1/2" [13] STRINGER JOINT

STAIR TREAD AND RISER PL [5/16"] TYP

S-501.00

S-501

RAMP TOP PLATE

MIN DISTANCE FROM ANY HANDRAIL POST TO STRINGER JOINT

9'-0" [2700] MAX STRINGER LENGTH

ANY STRINGER POST TO STRINGER JOINT

WEEP HOLE AT BOTTOM CORNERS OF RISER TYP E/S
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.
1. TYPICAL DOGBONE INTERLAYER PLAN

2. TYPICAL DOGBONE INTERLAYER ELEVATION

3. AXONOMETRIC SECTION

4. DETAIL

5. DETAIL

6. DETAIL

7. DETAIL

8. DETAIL

9. DETAIL

10. DETAIL

11. DETAIL

NOTE: FINAL WELD CONFIGURATION AND SEQUENCE TO BE BASED ON REVIEW OF FABRICATOR DETAILS.
NOTES:
- DETAILS FOR CLOSURE PLATES TO MEP OPENINGS TO BE DEVELOPED WITH ARCHITECT
- WHERE APPROPRIATE OPENINGS FOR PULL BOXES AND SPLICES MAY BE COMBINED
1. **BASE PLAN**

- Upper Ring Connection
- Bottom Flange
- MEP Opening

2. **AXONOMETRIC**

- Upper Ring Connection
- Bottom Flange
- GROUT BED

3. **BASE ELEVATION**

- MEP Opening
- Upper Ring Connection
- Bottom Flange

4. **BASE ELEVATION**

- Bottom Flange
- GROUT BED
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]

S-711

DETAIL

PLATE WASHER 2" [40]

BASE FLANGE 3" [70]

GROUT 3" [70]

GRILLAGE BEAM FLANGE 1 3/8" 150KSI ANCHOR ROD

PRELIMINARY NOT FOR CONSTRUCTION

HUDSON YARDS VESSEL

STANDARD BASE DETAILS S-711.00
SECTION

1

SECTION

2

WALL CORNERS

STIFFENER

PL 25 X 250

TYP

SHELL PLATES

30 THICK U/N

INTERIOR FULL HEIGHT PLATES 30 THICK U/N

R3'-5" [R1035]

3'-11" [1195]

1'-7 5/8" [500]

2 3/4" [70]

5'-9" [1742]

TYP

6'-8" [2040]

7'-2" [2188]

6'-2" [1875]

9" [237]

1'-4" [400]

4'-9" [1435]

5'-6" [1675]

1'-5" [433]

121191183

ES774904122

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

**Assumed Tonnage is 2300-2500t (Metric).** Detailed breakdown based on an average of 2400t (Metric) shown below.

#### Breakdown by Level

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**Total** 2400 2640

#### Breakdown by Plate

**Primary Plates**

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<td>803</td>
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**Stiffeners/Diaphragms (8mm)**

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**Soffit support (8-15mm)**

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**Splices**

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**Vessel Pedestal**

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**Elevator Support Steel**

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**Notes:**
- **Drawing Title:** U-1.2D+1.6L+S-T4-60-40
- **Plot Time:** 03/23/15 1:26 PM
- **DOCUMENT ISSUE:** 02
- **Oxford Properties Group**
  - **Address:** 77 Water Street
  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Design Architect:** Thornton Tomasetti, Inc.
  - **Address:** 261 7th Avenue
  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED STATES
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Mechanical, Electrical, Plumbing, Structural:**
  - **Address:** 77 Water Street
  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Architecture:**
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  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Civil Engineering:**
  - **Address:** 77 Water Street
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  - **State:** NEW YORK
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  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Environmental:**
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  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Interior:**
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  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Project Management:**
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  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Construction:**
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  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Mechanical:**
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  - **State:** NEW YORK
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  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Electrical:**
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  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Plumbing:**
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  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
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  - **State:** NEW YORK
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  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
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- **Mechanical, Electrical, Plumbing, Structural:**
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- **Mechanical, Electrical, Plumbing, Structural, Construction, Architecture:**
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  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
- **Mechanical, Electrical, Plumbing, Structural, Construction, Architecture, Interior:**
  - **Address:** 77 Water Street
  - **City:** NEW YORK, NY
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  - **Country:** UNITED KINGDOM
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  - **Fax:** 212.986.7510
- **Mechanical, Electrical, Plumbing, Structural, Construction, Architecture, Interior, Project Management:**
  - **Address:** 77 Water Street
  - **City:** NEW YORK, NY
  - **State:** NEW YORK
  - **Country:** UNITED KINGDOM
  - **Telephone:** 212.986.7514
  - **Fax:** 212.986.7510
NEW YORK CITY ENERGY CODE COMPLIANCE
PROGRESS INSPECTIONS (CONTINUED)

INSP/TEST | PERIOD | DEPARTMENT | INSPECTION SECTIONS | REQUIREMENTS
--- | --- | --- | --- | ---
1 | CHECK I | CHECK I | CHECK I | CHECK I

Date: 12/07/2016

Damian Titus
Under Directive 2 of 1975
Approved

NOTE 1. In accordance with Sections 101.7 and 101.8, this Inspection Report is required for new work, and shall be made available for review at the time of construction. The inspection of new work shall be made by a duly licensed professional engineer. The inspection report shall be signed by the professional engineer. The inspection report shall include a description of the work performed, including the dates of inspection and the name and signature of the professional engineer. The inspection report shall be made available to the owner of the building at completion of the work. The inspection report shall be kept on file for at least three years from the date of completion of the work.
INTERIOR LIGHTING DESIGN ENERGY ANALYSIS

OCCUPANCY: BACK OF HOUSE
PROJECT: BACK OF HOUSE SPACES TO SUPPORT EXTERIOR STAIRWELL.

NYCECC - 2014

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<th>PROPOSED DESIGN VALUE</th>
<th>CODE-PRESERVED VALUE</th>
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DEPT OF BLDGS Job Number Scan Code

INTERIOR LIGHTING CONTROL NARRATIVE

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

EXTERIOR LIGHTING DESIGN ENERGY ANALYSIS

OCCUPANCY: EXTERIOR STAIR
PROJECT: 6 STORY, LEVEL, EXTERIOR STAIRWELL.

NYCECC - 2014

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APPROVED
Under Directive 2 of 1975

Date:
Damian Titus
12/07/2016:

EXTERIOR LIGHTING CONTROL NARRATIVE

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

ALL STAIRWELL LIGHTING SHALL BE ON SWITCHED LIGHTS FOR 24 HOUR OPERATION.

LIGHTING FIXTURE SCHEDULE

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<th>UNITS</th>
<th>LAMPS</th>
<th>CONTROL GEAR</th>
<th>TOTAL LUMENS</th>
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<td>LED 6W</td>
<td>6W</td>
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<td>FLU 32W</td>
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SYMBOL LIST (POWER AND LIGHTING)

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APPROVED
Under Directive 2 of 1975

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

Damian Titus

APPROVED

Under Directive 2 of 1975
Under Directive 2 of 1975

Date: 12/07/2016

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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:
1- ELEVATION VIEW DRAIN DETAIL FOR PAVERS ON MUD SET

3-PLAN VIEW DRAIN DETAIL

4- ELEVATION VIEW DRAIN DETAIL FOR PAVERS ON PEDESTALS