

October 10, 2024

(23 pages)

ADDENDUM NO. 1**BID CALL NO. T2024-276****ADDITION AND RENOVATION AT BRAMPTON MEMORIAL ARENA**

This Addendum is part of the Bid Document.

1. Bid Closing:

The Closing Date has been extended from NOT LATER THAN 2:00:00 pm LOCAL TIME on FRIDAY OCTOBER 18, 2024, TO:

NOT LATER THAN 2:00:00 O’CLOCK P.M. LOCAL TIME ON FRIDAY OCTOBER 25, 2024.

2. Pertaining to Specifications and Drawings:

Refer to attached Consultant Addendum No. 1 (Total 21 pages)

3. Pertaining to Personnel Requirement – Mandatory Requirements:

DELETE, the following:

- Has completed or has significant experience on at least one projects valued not less than \$2 Million Dollars within past five (5) years

REPLACE With.

- Has completed or has significant experience on at least one projects valued not less than \$2 Million Dollars within past seven (7) years

Note: Experience years has been changed from five (5) years to seven (7) years.

4. Questions and Responses

Q.1 Is GC responsible for building permit application?

A.1 No. The Architect Consultant already applied for it.

Q.2 We reviewed specification and roofing specification was not covered in specification file, could you please provide roofing specification.

A.2 *The specification is provided under 07 1 30- Built up Asphalt Roofing.*

Q.3 Kindly provide base building contractors' contact information.

A.3 *Considering the building was built in 1950 and a heritage building, there is not much information regarding the base building contractor.*

Q.4 Is there an intended start date for this project?

A.4 *As soon as the PO is issued which will probably happen by December 2024*

Q.5 Is there an existing Building Automation System at this facility? If so, which BAS is in the building.

A.5 *The controls of HVAC system will be stand alone and not required to be tied to BAS.*

All other terms & conditions remain unchanged.

If you have any questions, please do not hesitate to contact the undersigned.

Bidders are required to acknowledge all Addenda.

Santosh Mishra, CSCMP
Senior Buyer, Purchasing, Corporate Services
Ph: 905-874-3482
Email: santosh.mishra@brampton.ca

ADDENDUM NO.01

The tender and contract documents for the Brampton Memorial Arena Expansion at 69 Elliot Street, Brampton, ON for the City of Brampton, are hereby amended as follows:

1.0 Bid Documents:

1.1 Architectural Drawings

1. **Delete** the previously issued drawings A7.1 and A7.2 to **ADD** the attached drawings A7.1 and A7.2 (Issued for Tender Addendum 1, R8 dated 2024.10.08)
2. **Delete** the previously issued drawing A9.1 to **ADD** the attached drawing A9.1 (Issued for Tender Addendum 1, R8 dated 2024.10.08)

1.2 Electrical Cut-sheets

1. **ADD** the attached BMAE - Interior Light Fixture Catalogue Cuts - Issued for Tender Addendum 1.

2.0 Bid Questions:

- 2.1 **Question 1** - There is a discrepancy in the washroom elevations and drawing A9.1 regarding ceramic wall tile. Elevations only show ceramic wall tile in the showers, but plan calls for ceramic tiles on all the walls in the washrooms. Please clarify

Answer 1 – For interior wall finishes, refer A9.1, R8 Issued for tender addendum. For updated washroom elevations, refer A7.1 and A7.2, R8 Issued for Tender Addendum 1.

- 2.2 **Question 2** - Drawing A9.1 calls for PCT2 tile in the shower and PCT tile in Washroom B. However, there is no spec for PCT tile. Also spec 09 30 13 PORCELAIN AND CERAMIC TILE page 2 call for 2in x 2in PT tile. Can you please clarify the sizes of the tiles and distinction between PCT2 and PCT tile?

Answer 2 – The wall finishes of room Washroom A-105, BF Washroom A - 106, Washroom B - 111 and BF Washroom B - 112 have been updated to PT (Porcelain tile) according to the specification 09 30 13 Porcelain and Ceramic Tile. For description of PT1 refer the floor finish legend Refer A9.1, R8 Issued for Tender Addendum 1.

- 2.3 **Question 3** - The L1A and L1B fixture catalogue reference are not consistent with the fixture description. DL1 and DL1A catalogue numbers do not appear to exist.

Answer 3 - Refer to the attached cut sheets BMAE - Interior Light Fixture Catalogue Cuts - Issued for Tender Addendum 1. Fixtures by the STL Lighting Group <https://www.stllighting.com/>

52 Scarsdale Road, Suite 212, Toronto, Ontario M3B 2R7 | T: 416.588.6370

50 Dalhousie Street, Brantford, Ontario N3T 2H8 | T: 519.754.1652

1340 Wellington Street West, Ottawa, Ontario K1Y 3B7 | T: 613.680.5557

ADDENDUM NO.01

2.4 **Question 4** - Drawing E302 does not include a scale. Can a reference dimension be provided to aid takeoff of conduit lengths?

Answer 4 – The drawing is at scale 1:100

2.5 **Question 5** - There is a reference on M&E drawings to connection to existing service in a basement. Are there any drawings showing the layout of this existing area? I did not gain access to this package in time to attend today's site meeting – will there be another opportunity scheduled?

Answer 5 - Which drawings specifically, please provide drawing numbers. We didn't receive any basement plans hence they are not included in our drawings.

END OF ADDENDUM No.1

GENERAL NOTES:

- HEIGHT OF ALL FIXTURES SHALL BE CONFIRMED (IN ACCORDANCE W/THE LATEST O.B.C. AND/OR APPLICABLE TOWN STANDARDS) PRIOR TO ROUGH-IN & INSTALL.
- SEE TYPICAL B.F. WATER CLOSET, URINAL, LAVATORY AND/OR SHOWER LAYOUT DIAGRAMS FOR ADDITIONAL ACCESSORY LOCATION & MOUNTING INFORMATION.
- FOR ALL OTHER MOUNTING HEIGHTS NOT SPECIFIED HERE, PLEASE SEE RESPECTIVE PLANS AND INTERIOR ELEVATION FOR MORE INFORMATION.
- REFER TO SPECIFICATION FOR FIXTURE AND/OR ACCESSORY TYPE IN ALL ROOM, TYP.

NOTE:

THE FOLLOWING ARE SBO (SUPPLIED AND INSTALLED BY THE OWNER):

- GARBAGE DISPOSAL BIN - GD
- SANITARY NAPKIN DISPOSAL BIN - SND

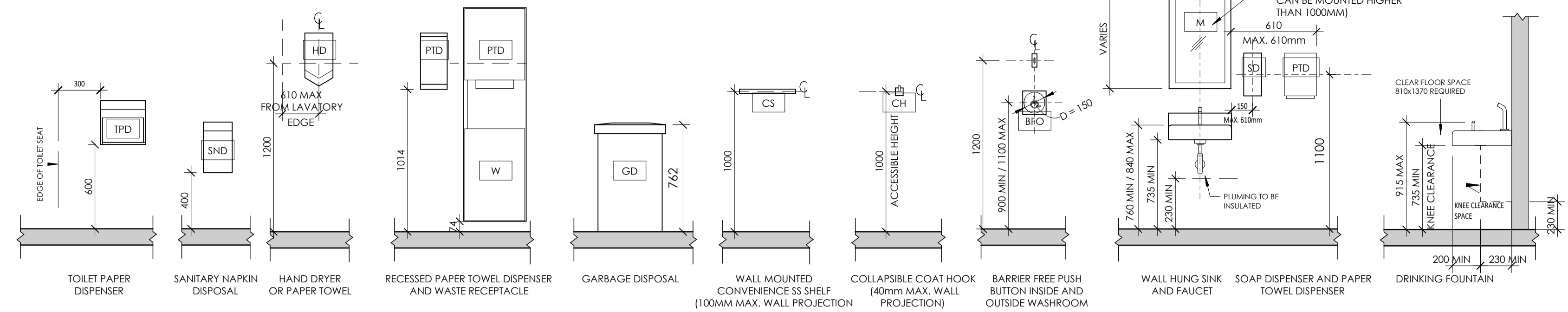
THE FOLLOWING ARE SBO (SUPPLIED BY THE OWNER AND INSTALLED BY GENERAL CONTRACTOR):

- SOAP DISPENSER - SD
- TOILET PAPER DISPENSER - TPD

W/R ABBREVIATIONS

ACT	ADULT CHANGE TABLE	SD	SOAP DISPENSER
BF	BARRIER FREE	SND	SANITARY NAPKIN DISPOSAL
CH	COAT HOOK	SC	SCREEN
CS	CONVENIENCE SHELF	SH	SHOWER SOAP HOLDER
DF	DRINKING FOUNTAIN	SHB	SHOWER BENCH
EC	EMERGENCY CALL BUTTON	TM	TILTED MIRROR
F.D.	FLOOR DRAIN	TPD	TOILET PAPER DISPENSER
F.E.C	FIRE EXTINGUISHER CABINET	UR	URINAL
GB	GRAB BAR	W	WASTE RECEPTACLE
GD	GARBAGE DISPOSAL	W.R.	WASHROOM
HD	HAND DRYER		
M	MIRROR		
PB	PUSH BUTTON		
PTD	PAPER TOWEL DISPENSER		

MOUNTING HEIGHTS FOR FIXTURES AND ACCESSORIES:



REVISIONS:

NO.	DATE	PARTICULAR
3	2024.05.14	ISSUED FOR CLIENT REVIEW
4	2024.07.11	ISSUER FOR 75% CD AND HERITAGE PERMIT
5	2024.07.26	ISSUER FOR 90% CD
6	2024.08.26	ISSUED FOR PERMIT & TENDER
7	2024.09.20	RE-ISSUED FOR TENDER
8	2024.10.08	ISSUED FOR TENDER ADDENDUM 1

NOTES:

R8

KEY PLAN:

CLIENT:

CITY OF BRAMPTON,
2 Wellington Street W
Brampton, ON. L6Y 4R2

PROJECT:

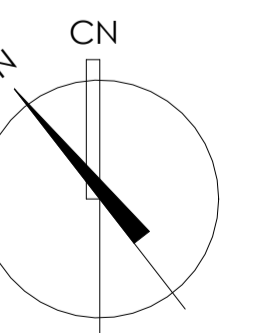
22344
Brampton Memorial Arena Expansion
69 Elliott St.
Brampton, ON L6Y 1W2

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KEY TO DETAIL LOCATION:

A - DETAIL NO.
B - DETAIL NO. ORIGIN

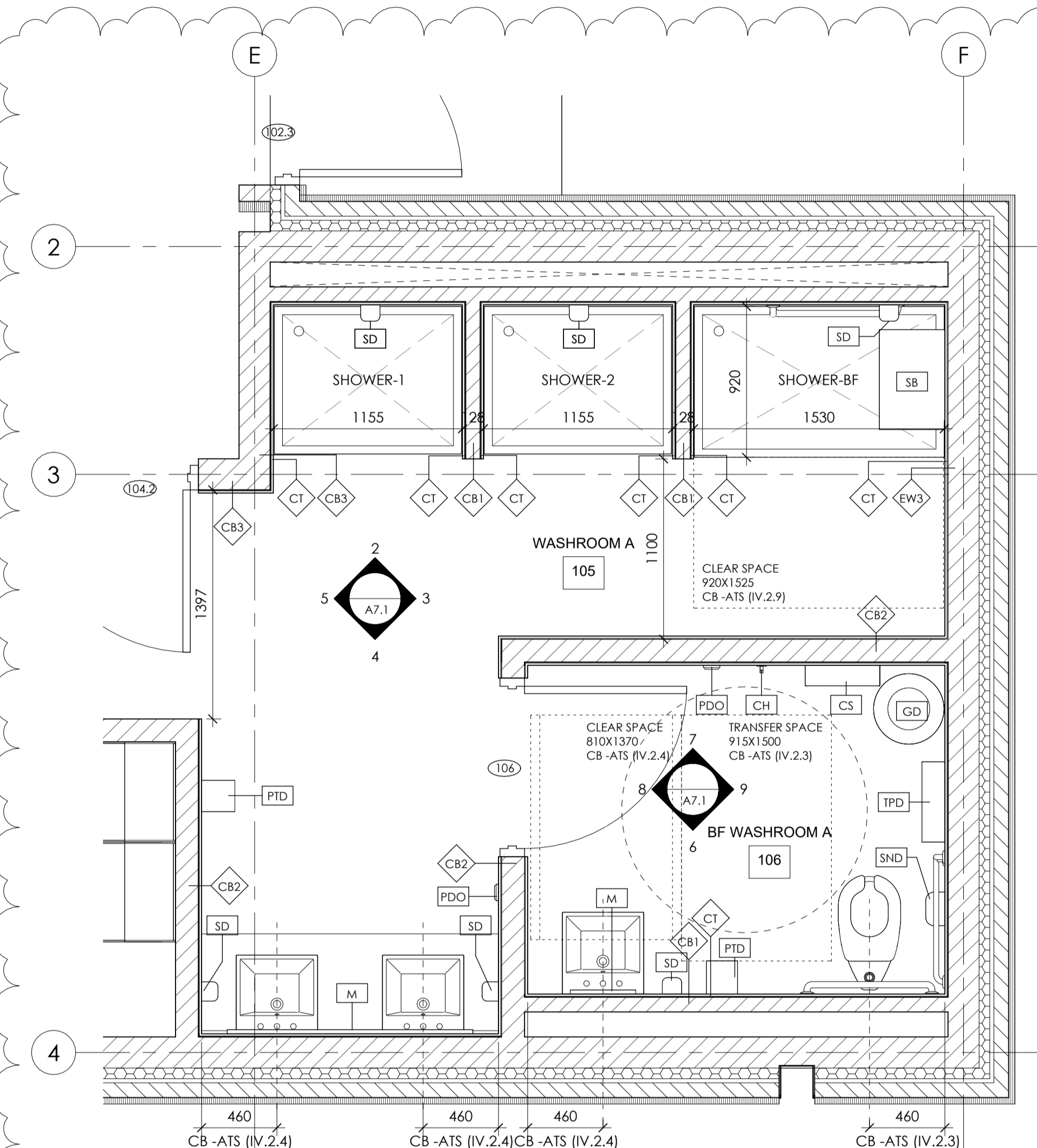
ARCHITECTS
THE VENTIN GROUP LTD



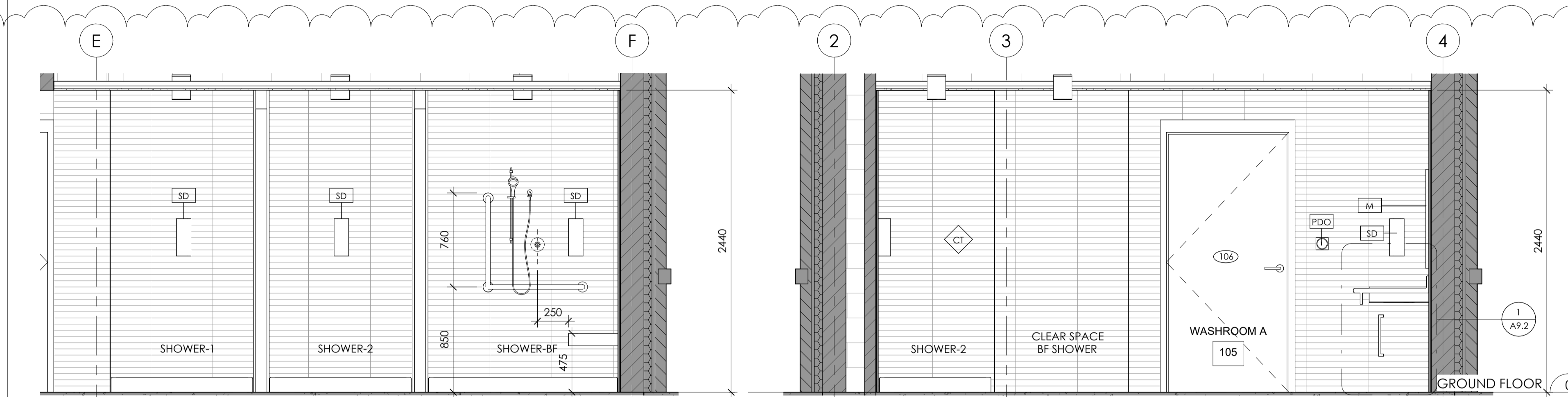
A7.1

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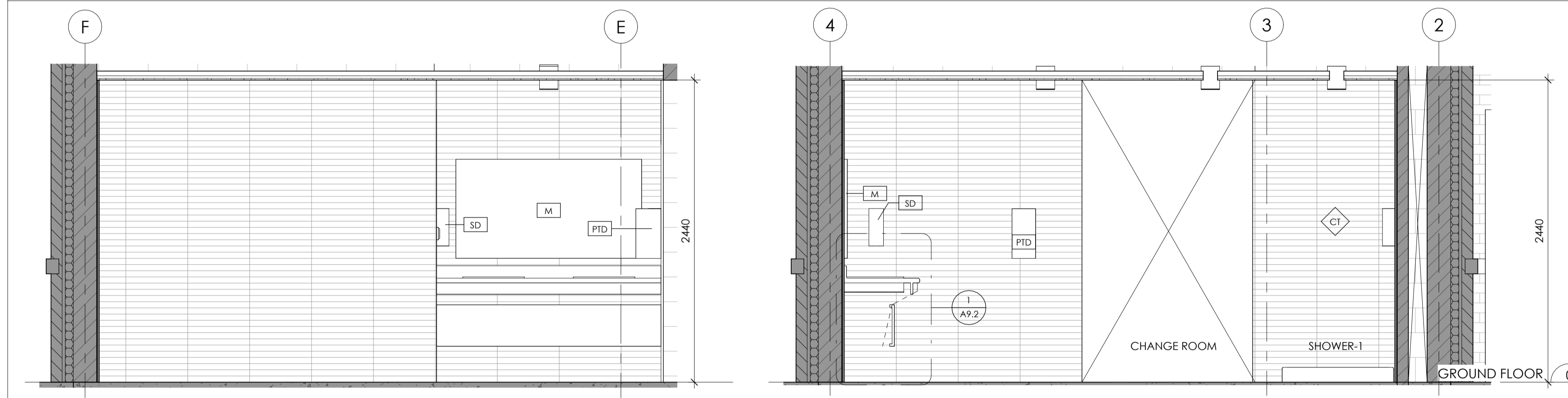


1 PLAN - WASHROOM 105 AND BF WASHROOM 106
A7.1 1:25



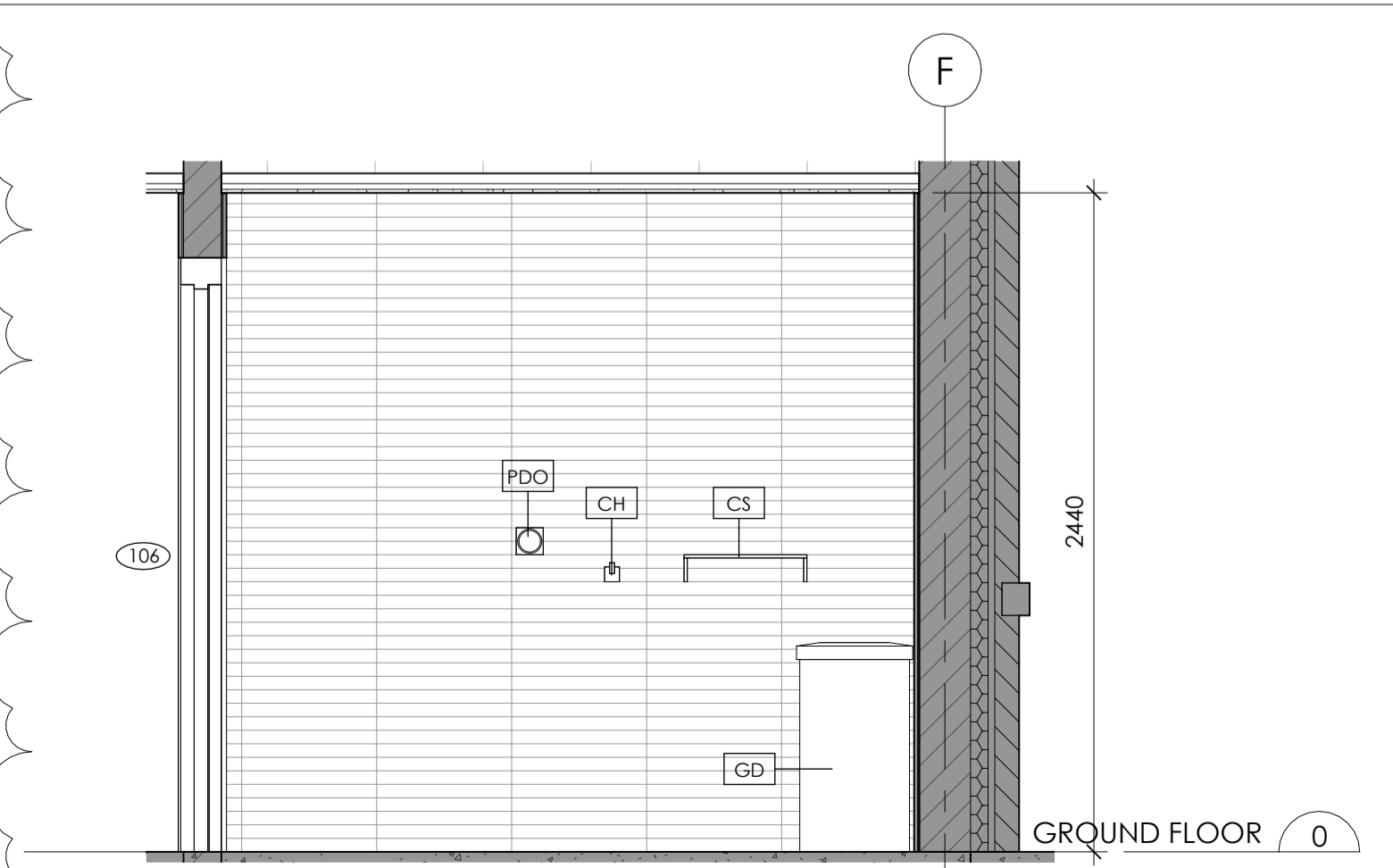
2 105 - Elevation 1
A7.1 1:25

3 105 - Elevation 2
A7.1 1:25

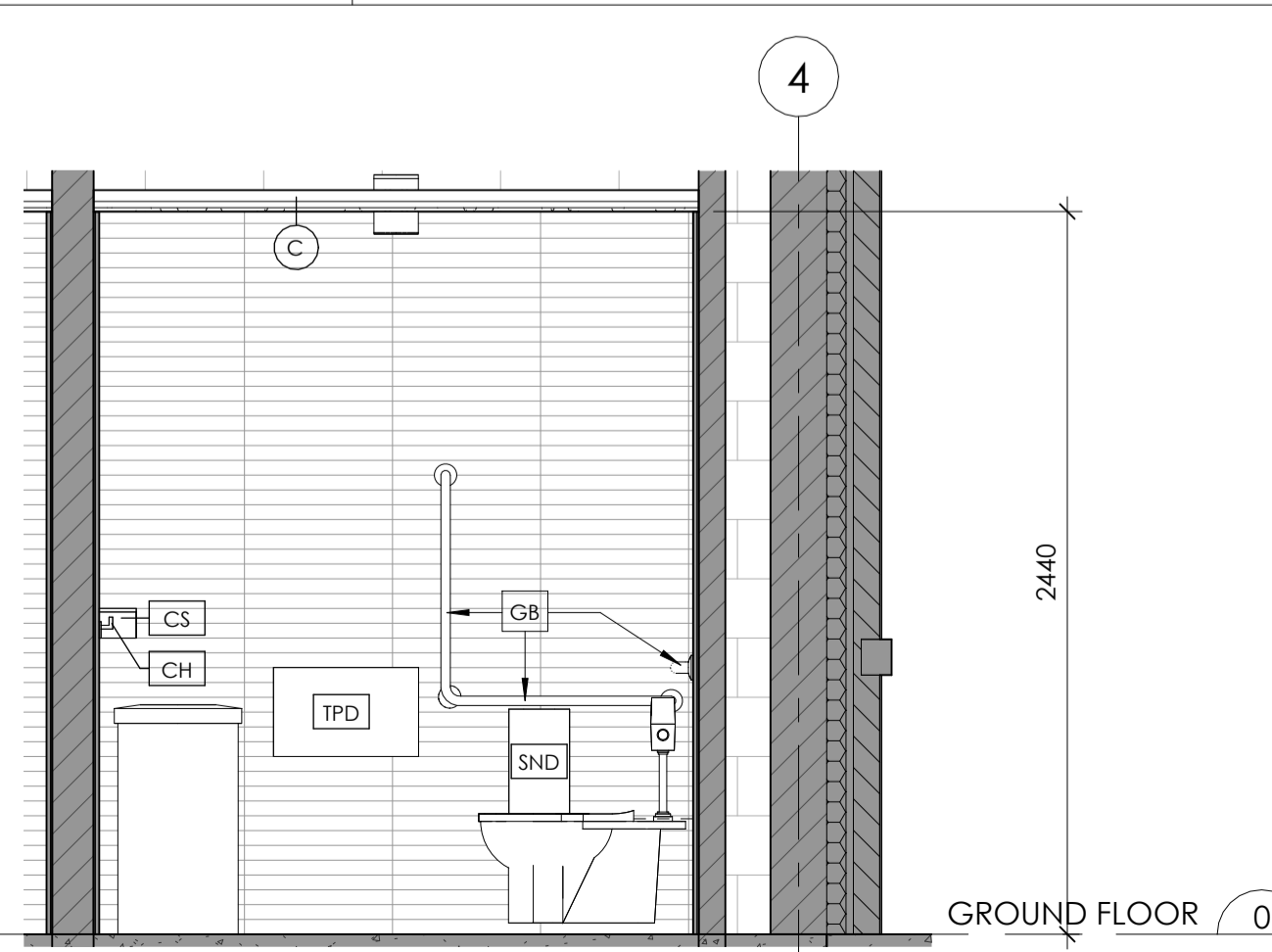


4 105 - Elevation 3
A7.1 1:25

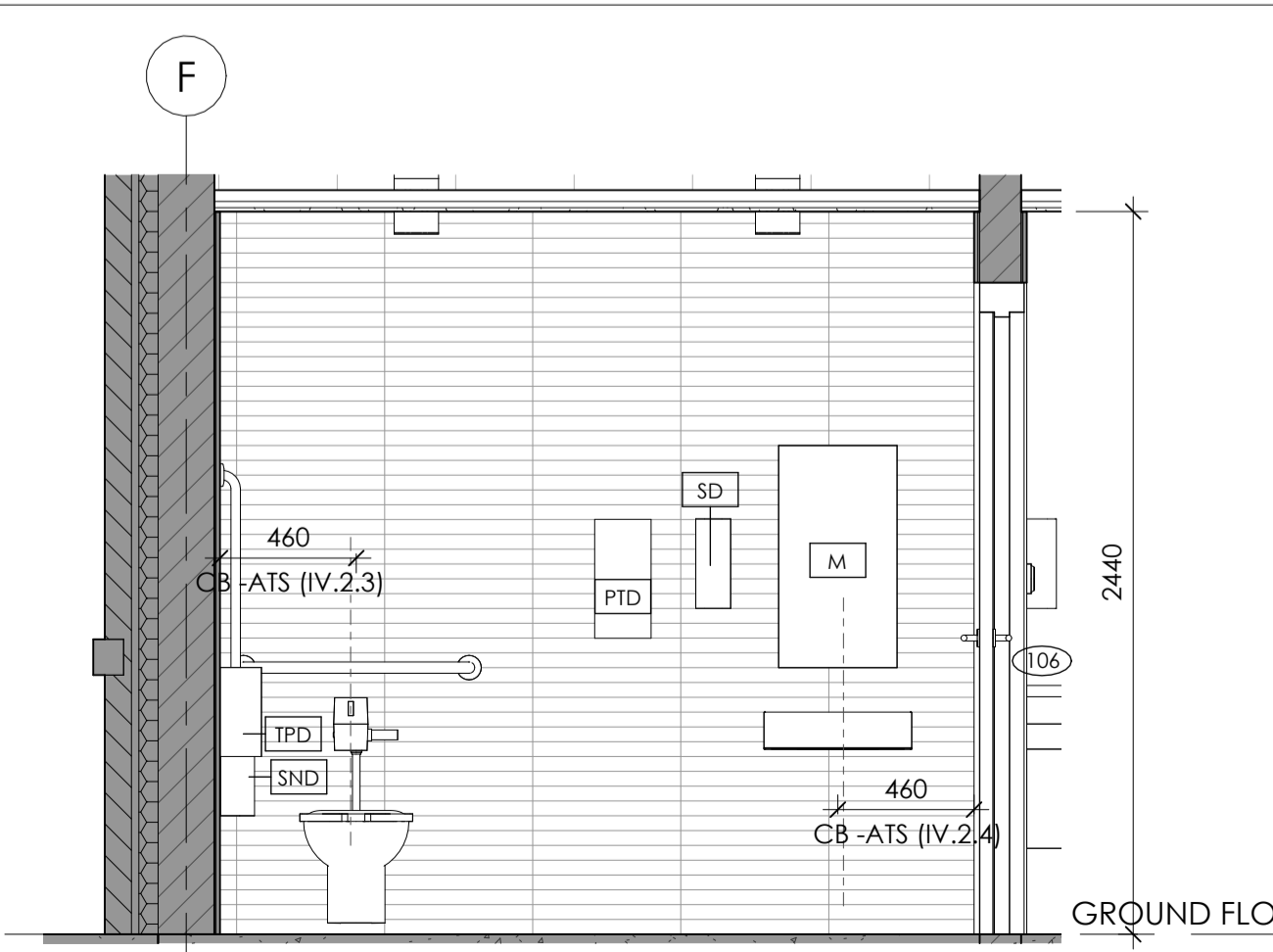
5 105 - Elevation 4
A7.1 1:25



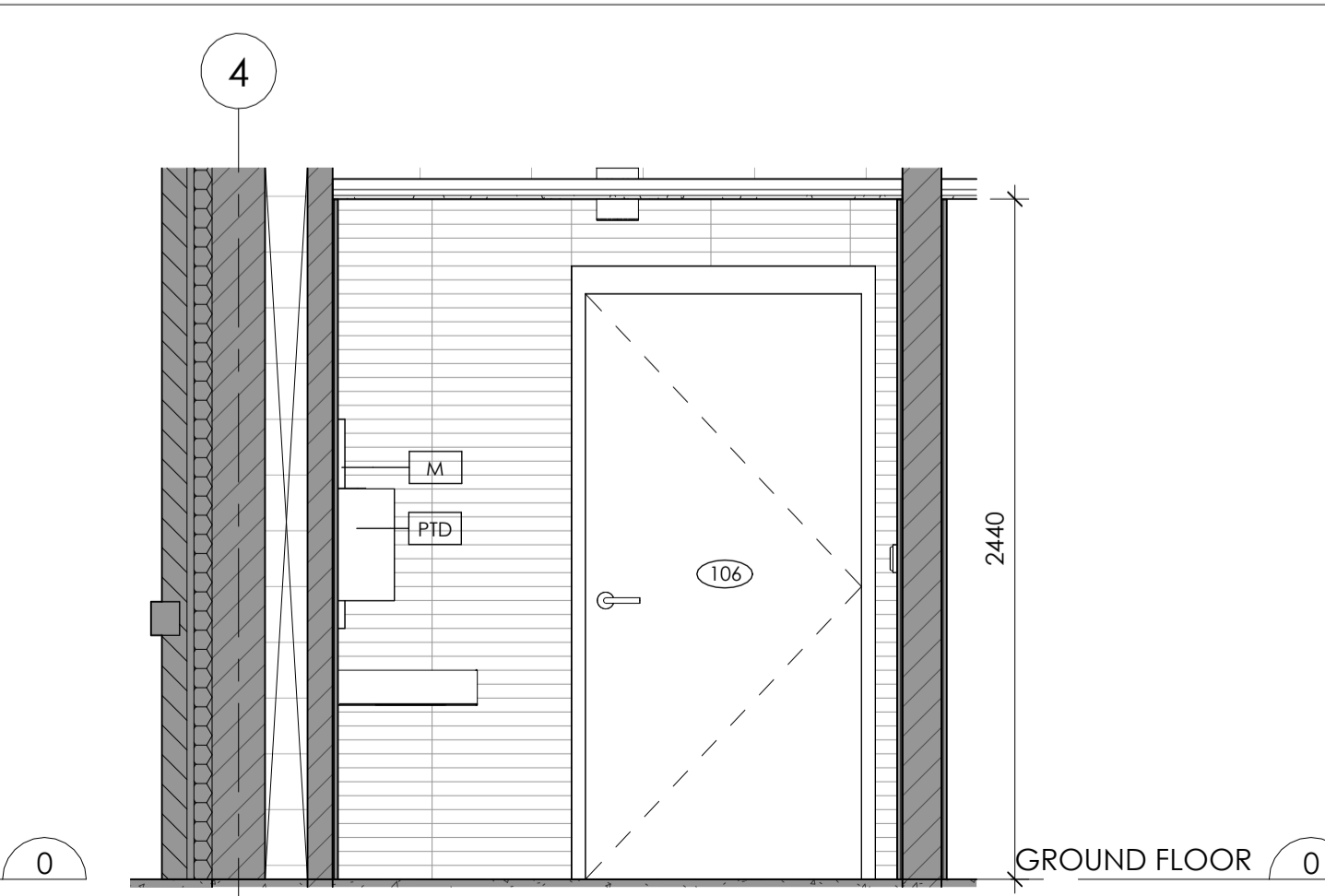
7 106 - Elevation 1
A7.1 1:25



9 106 - Elevation 2
A7.1 1:25



6 106 - Elevation 3
A7.1 1:25

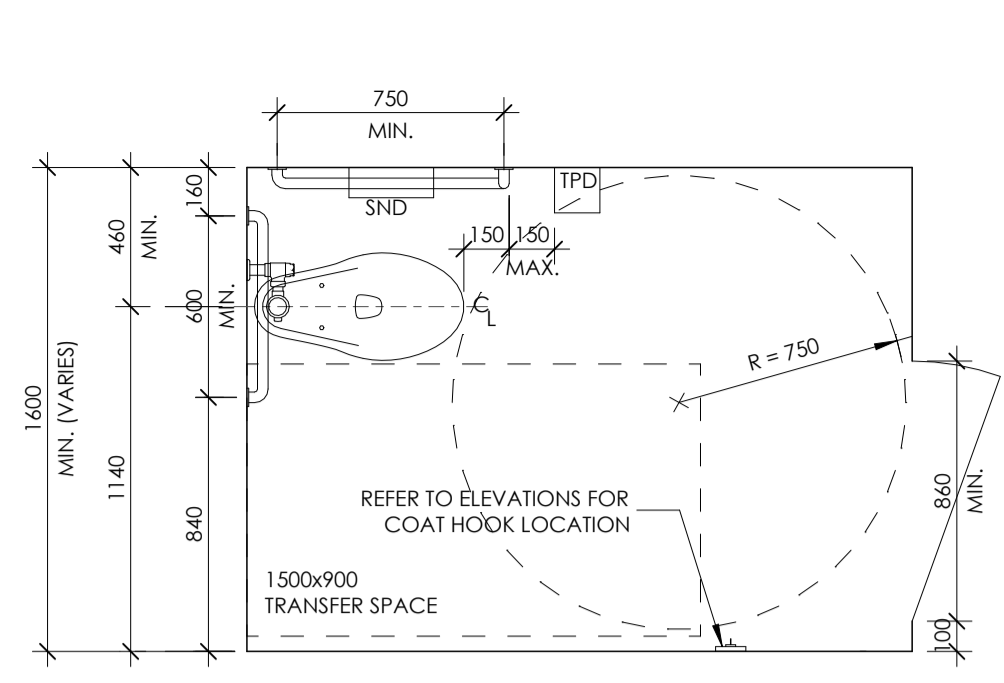


8 106 - Elevation 4
A7.1 1:25

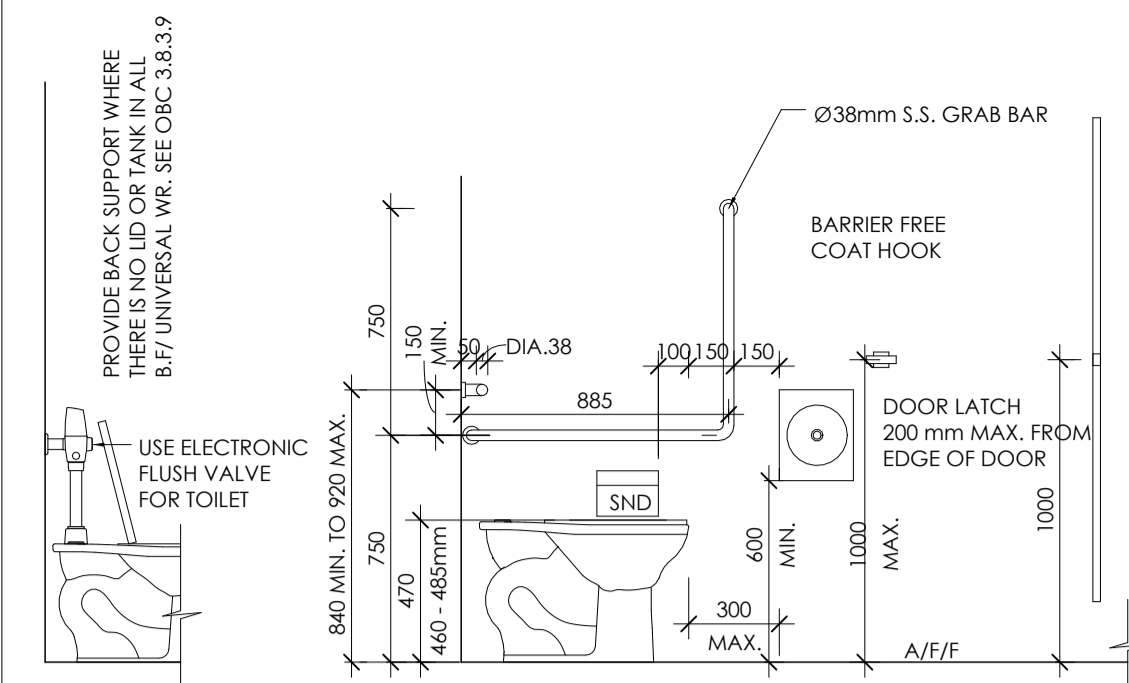
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INTERNAL ELEVATIONS

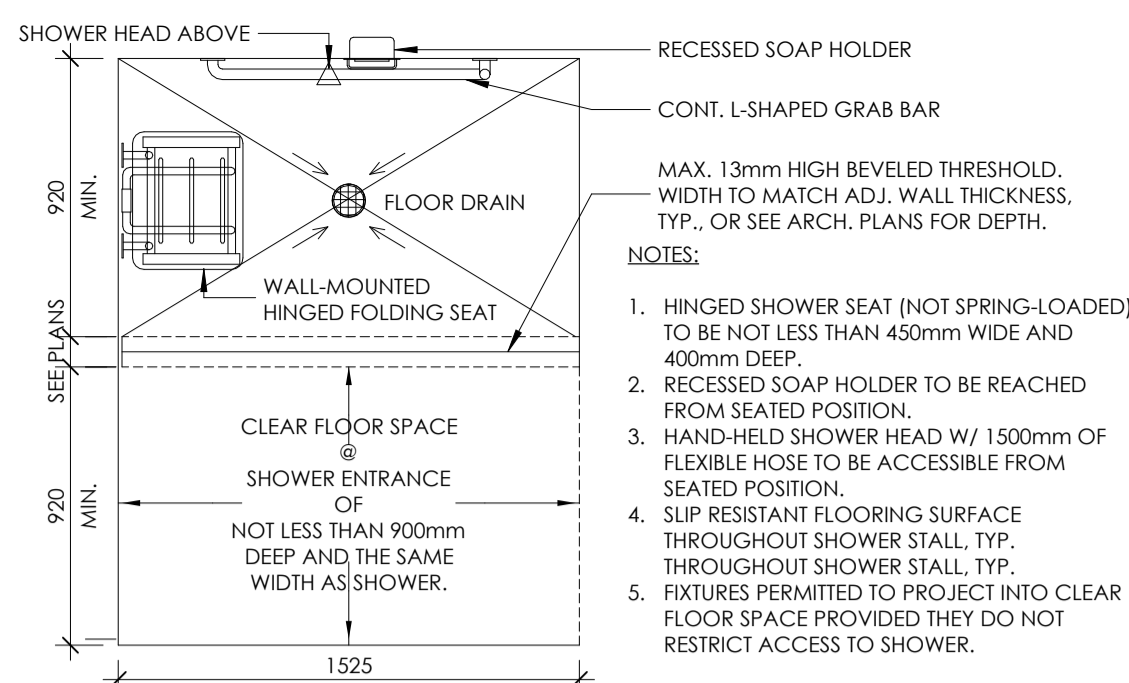
All dimensions and measurements must be checked and verified by the General Contractor. Reproduction of drawings and related documents in whole or in part is forbidden without written permission of the Ventin Group.



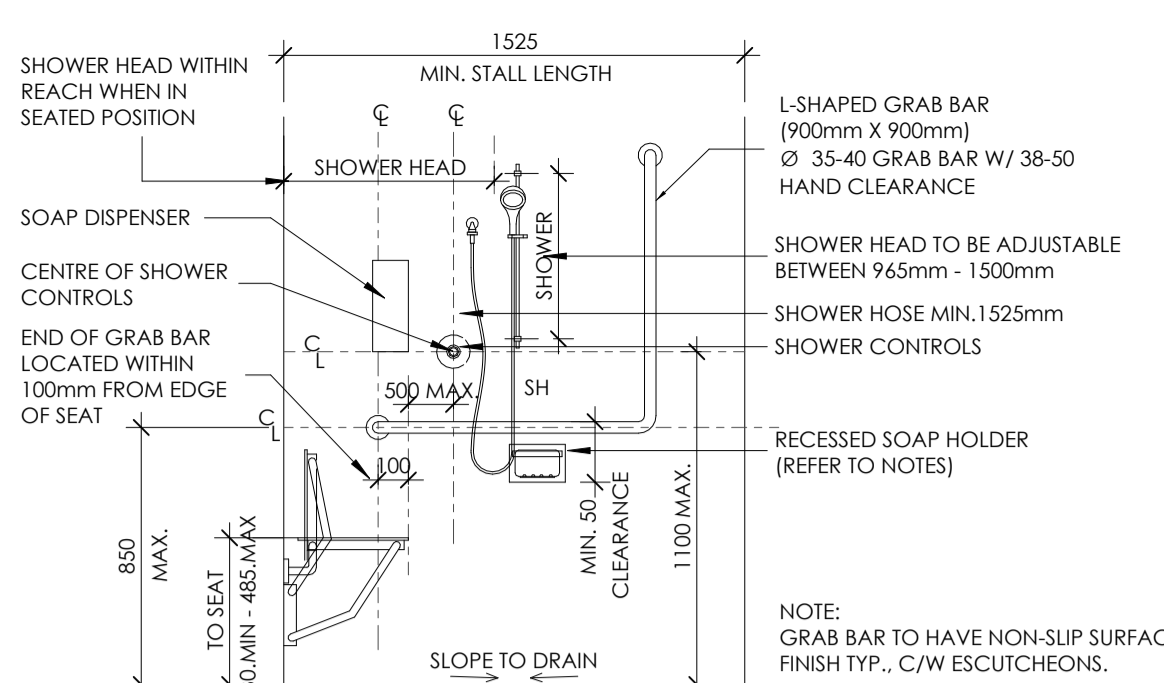
10 TYP. BF WASHROOM PLAN
A7.2 1:25



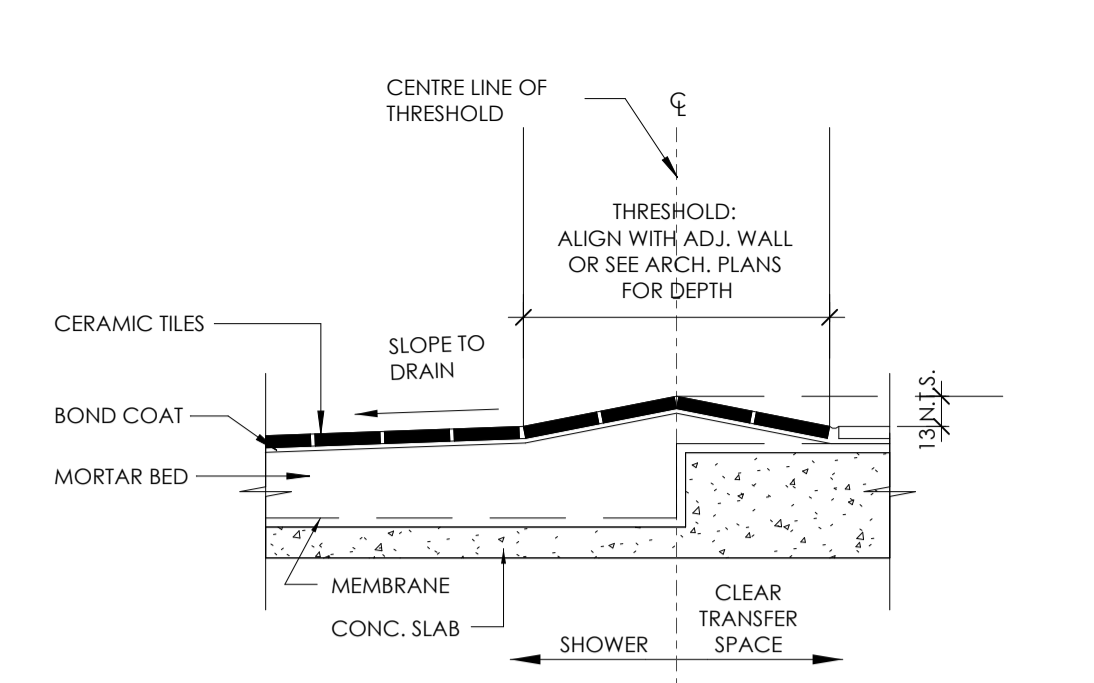
13 TYP. BF WASHROOM ELEVATION
A7.2 1:25



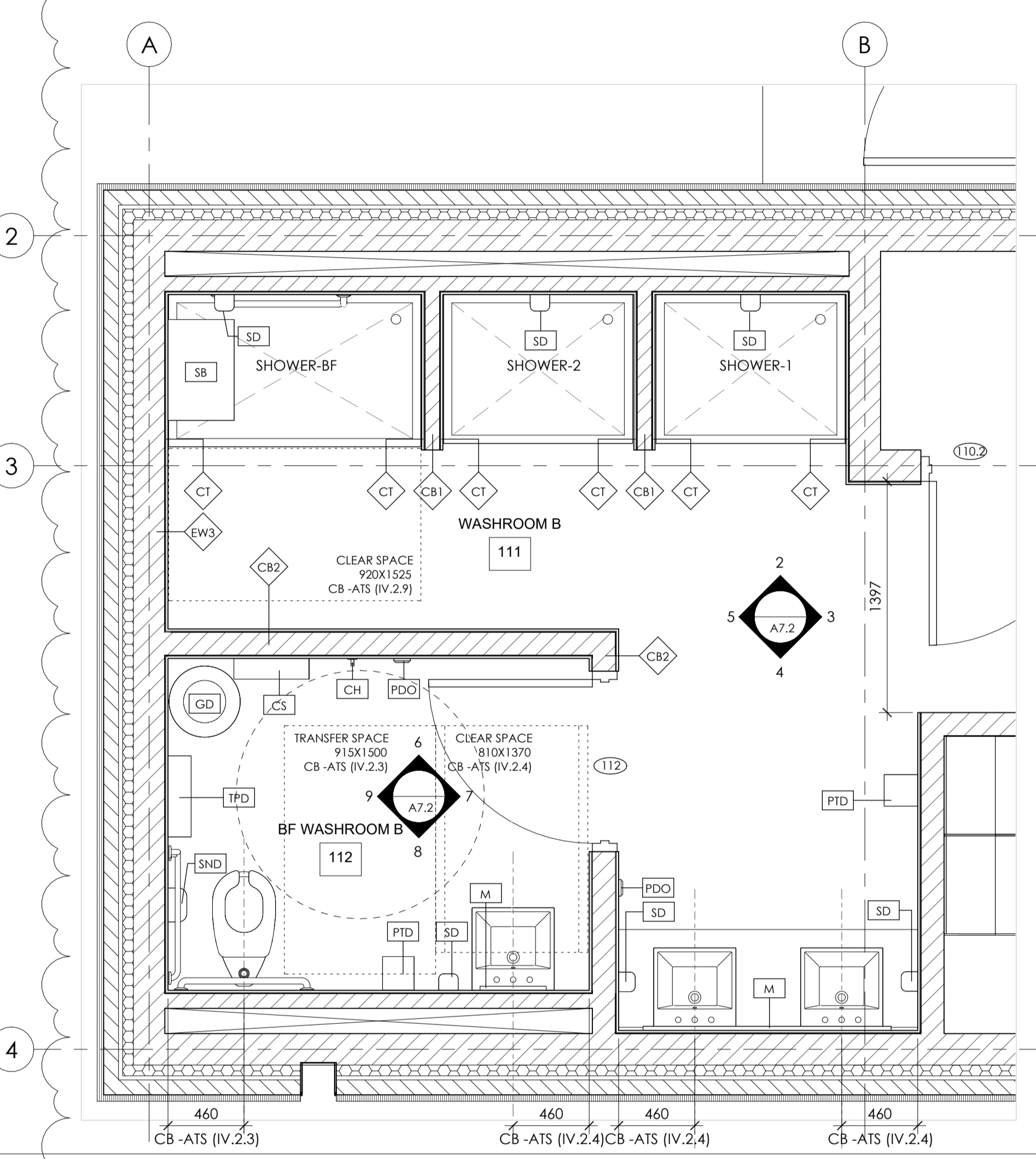
12 TYP. BF SHOWER
A7.2 1:25



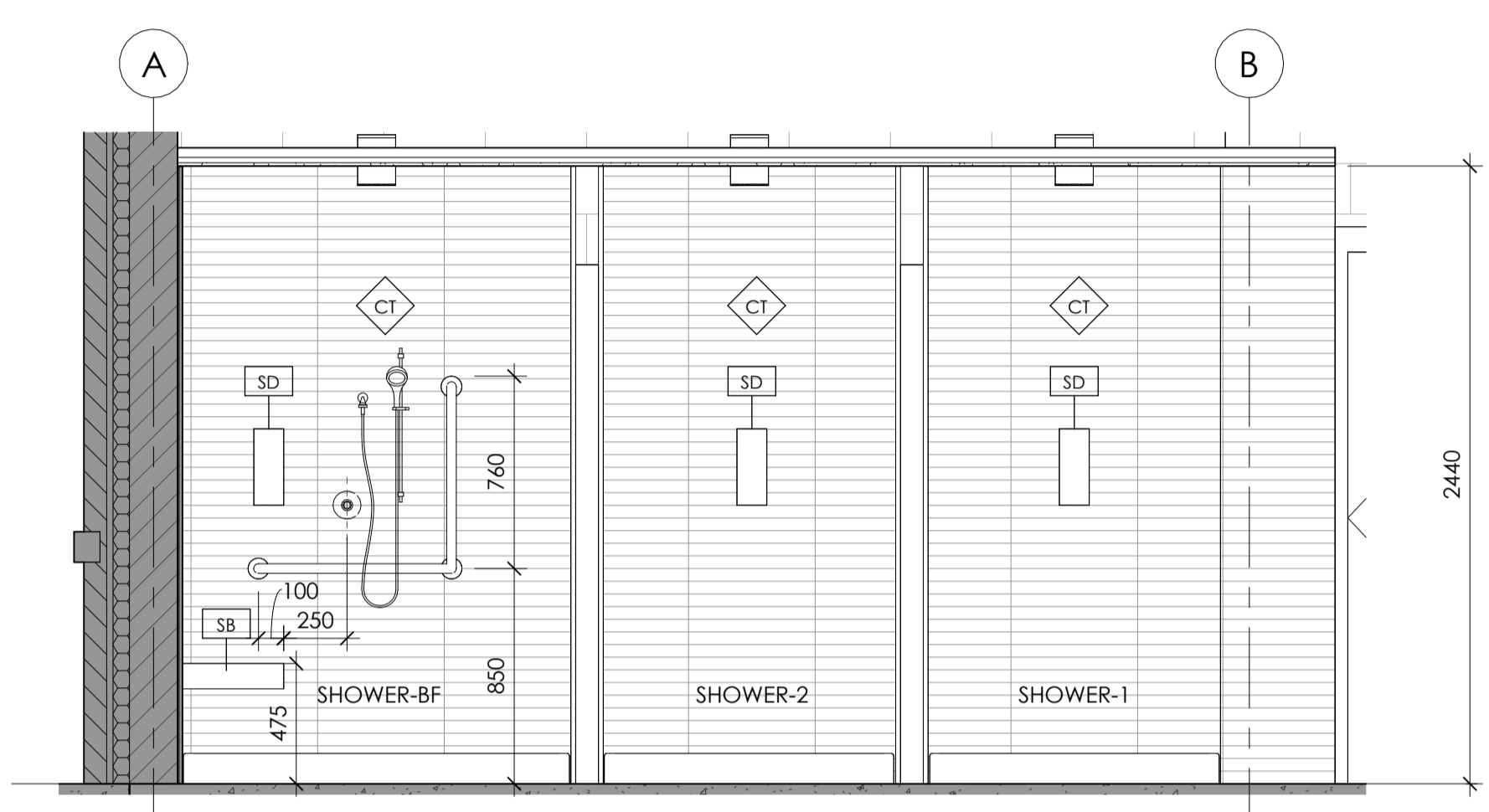
11 TYP. SHOWER DETAIL
A7.2 1:5



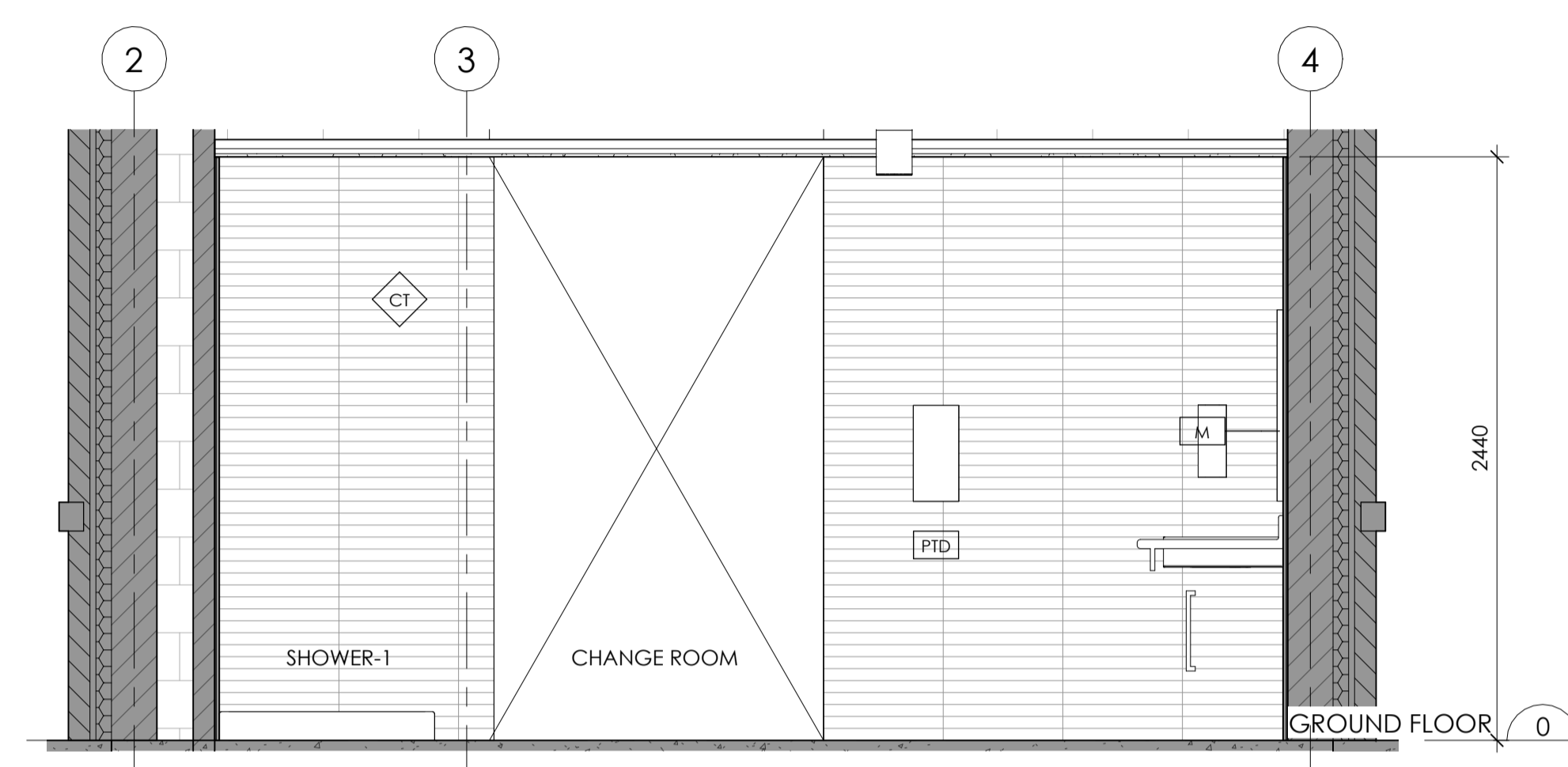
11 TYP. SHOWER DETAIL
A7.2 1:5



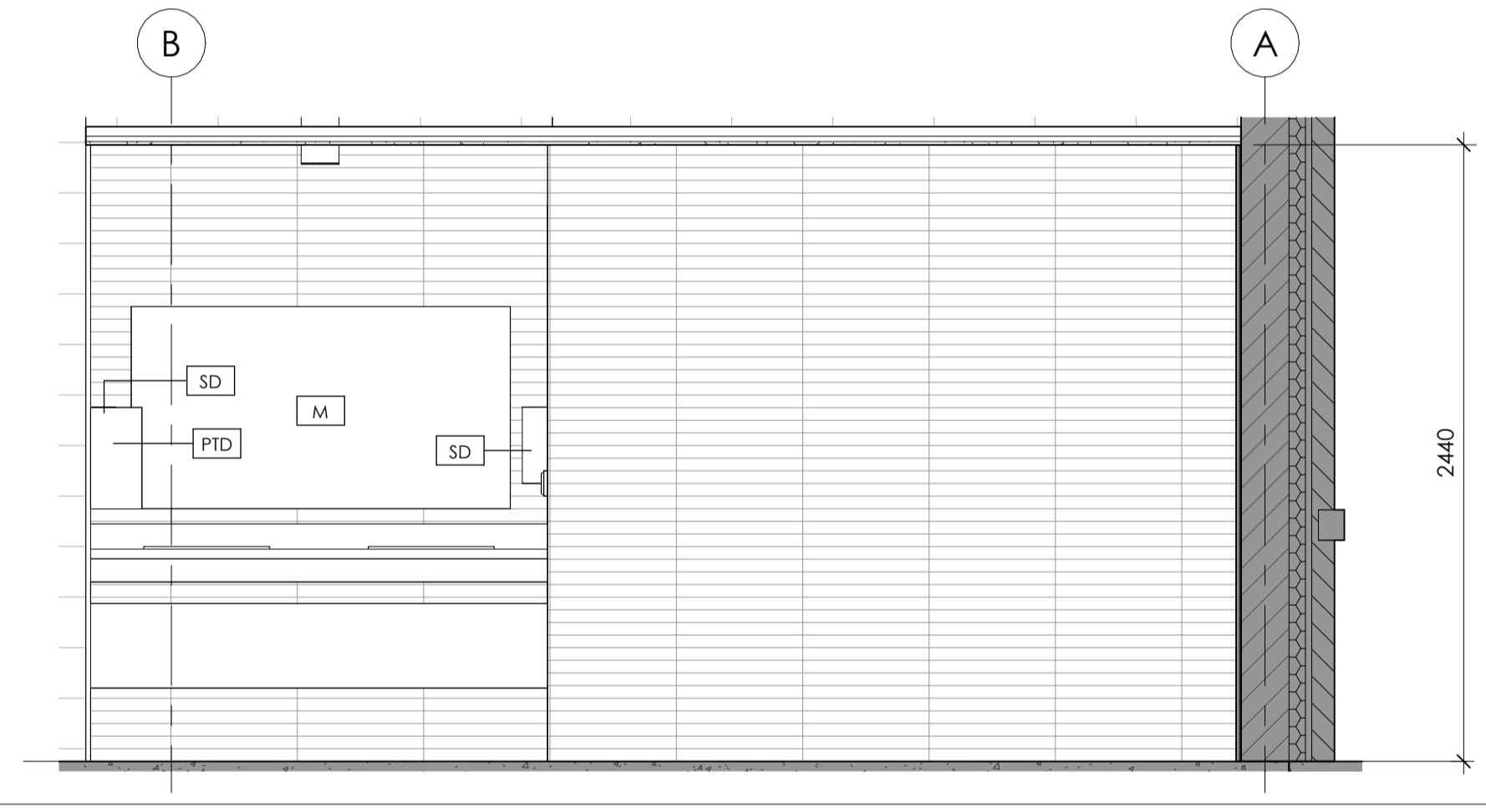
PLAN - WASHROOM 111 AND BF WASHROOM 112
A7.2 1:25



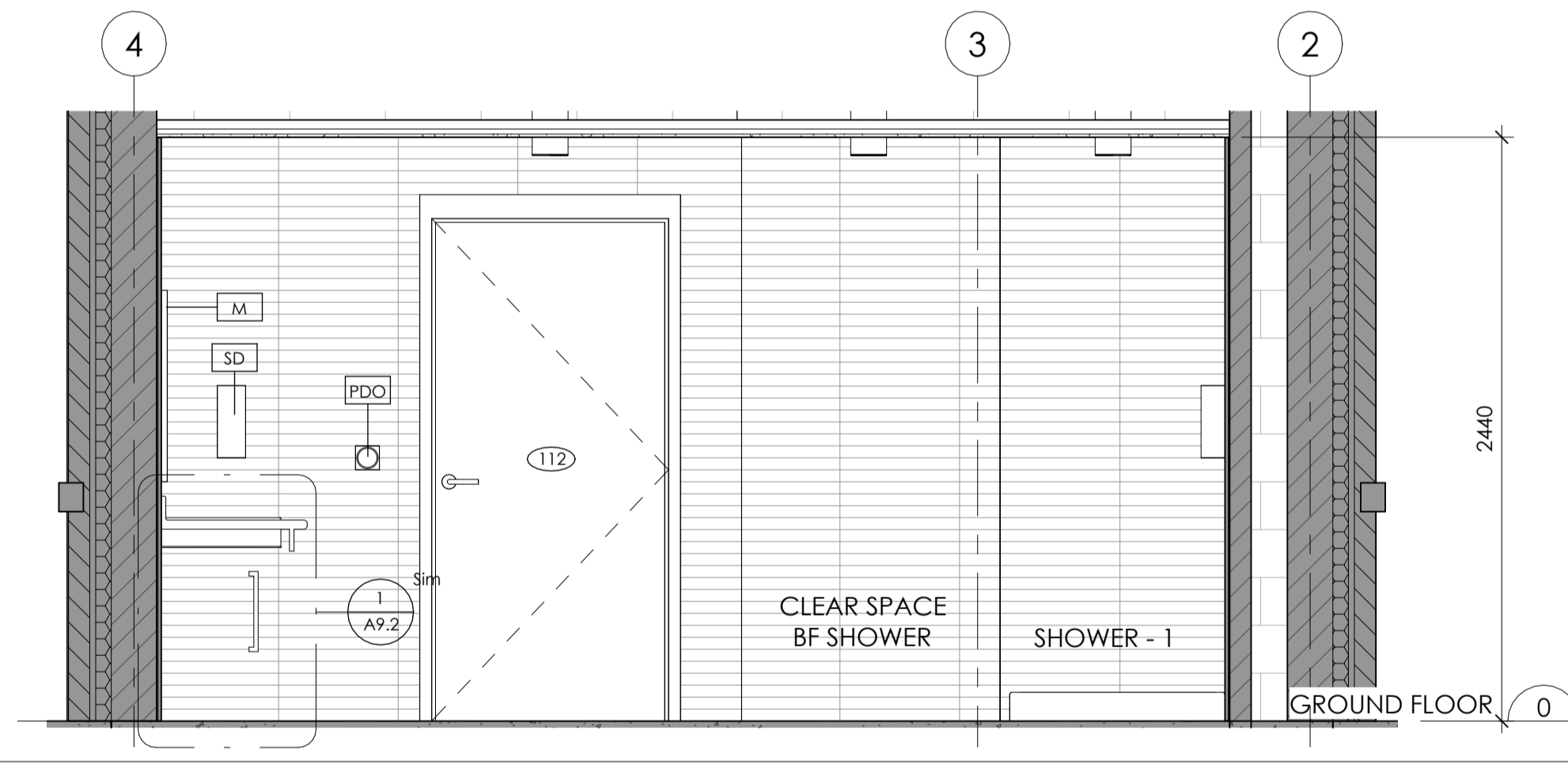
2 111 - Elevation 1
A7.2 1:25



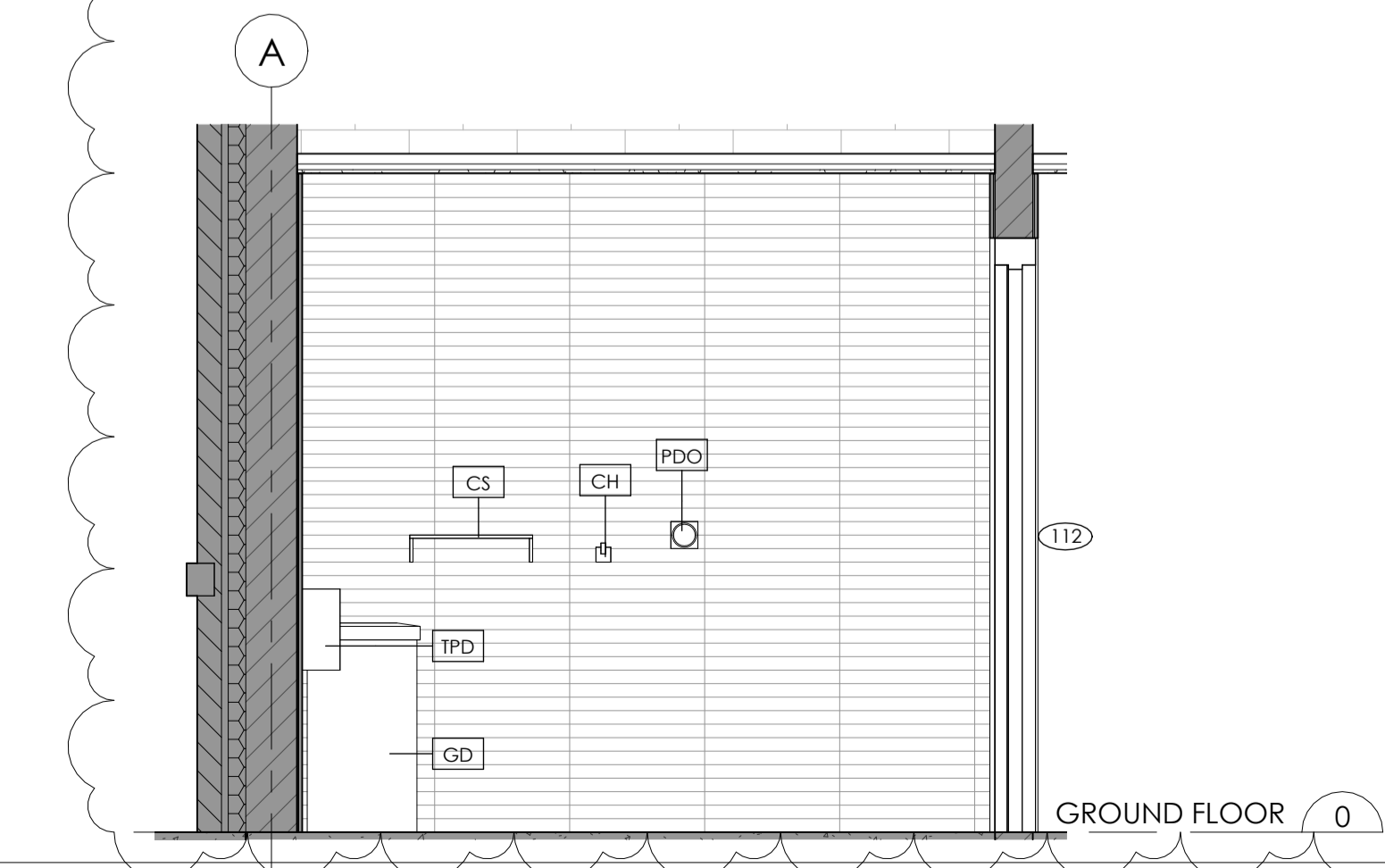
3 111 - Elevation 2
A7.2 1:25



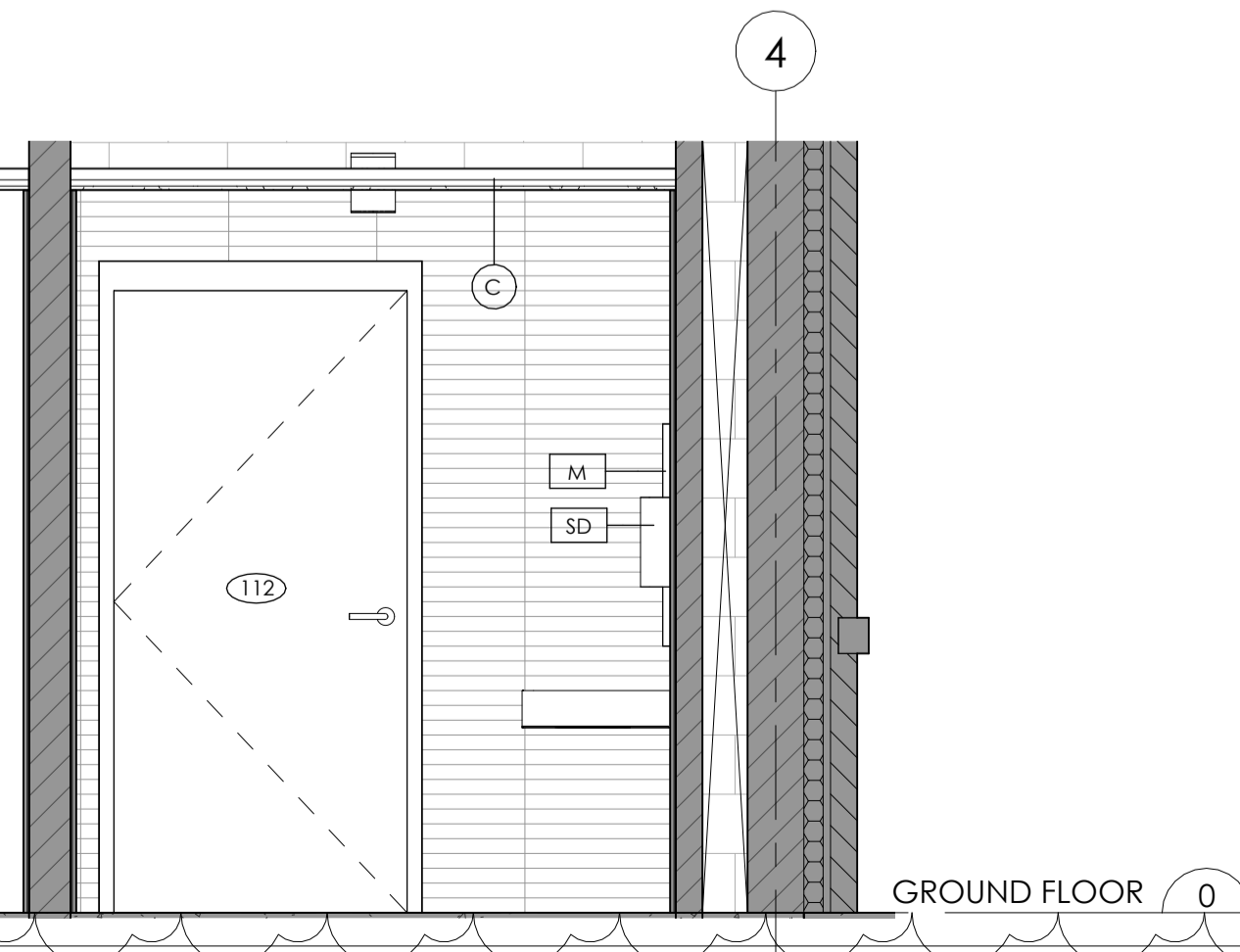
4 111 - Elevation 3
A7.2 1:25



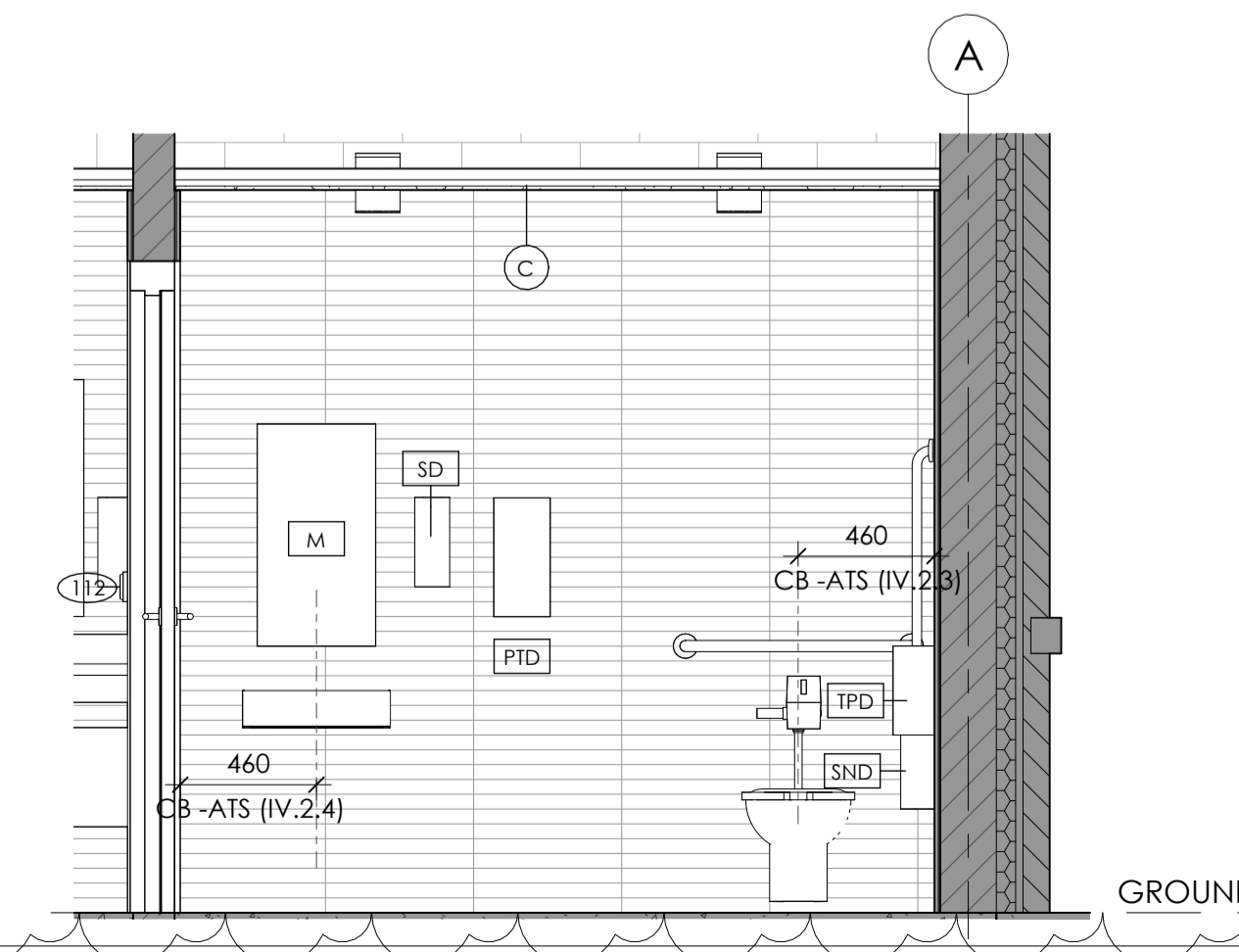
5 111 - Elevation 4
A7.2 1:25



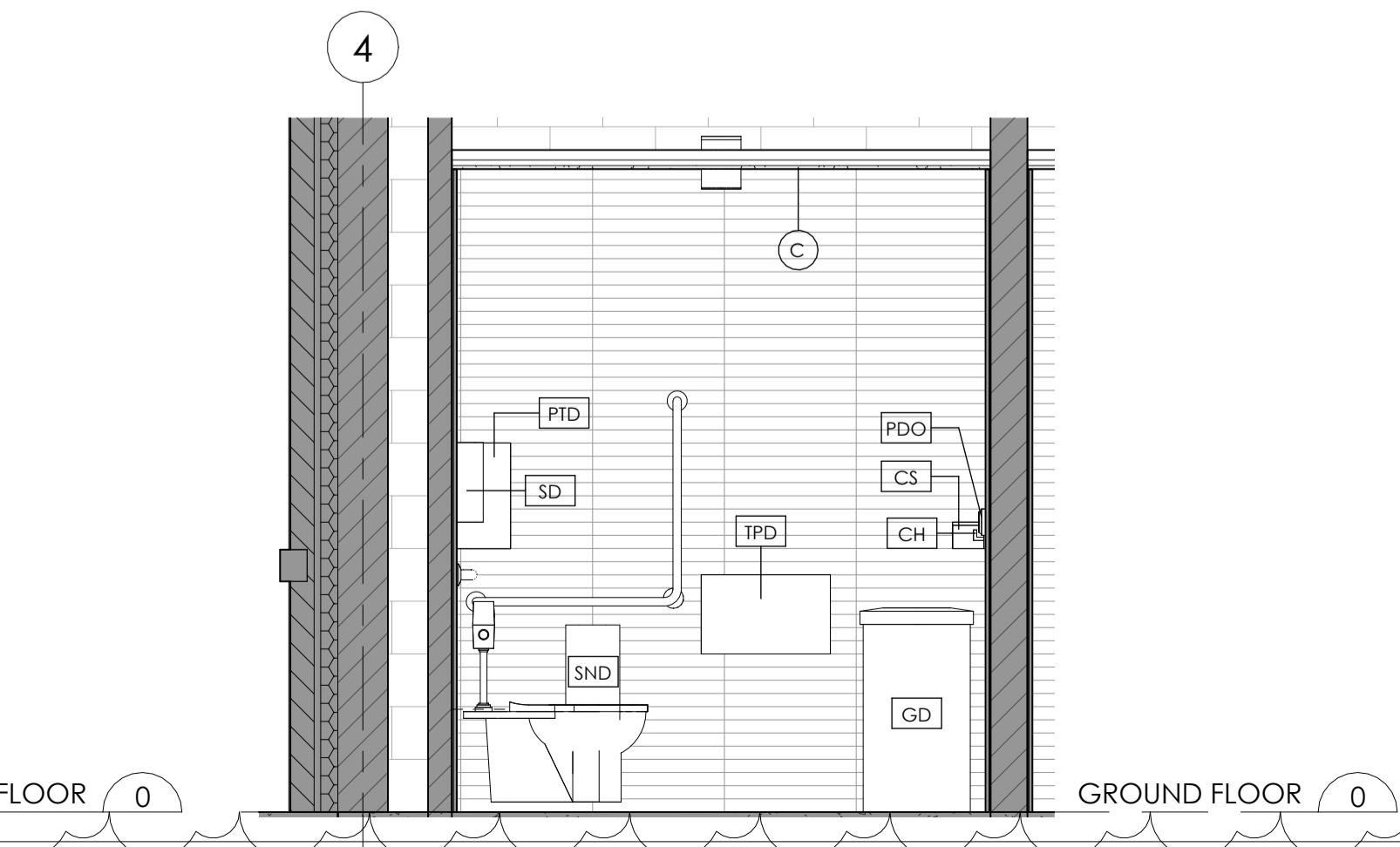
6 112 - Elevation 1
A7.2 1:25



7 112 - Elevation 2
A7.2 1:25



8 112 - Elevation 3
A7.2 1:25



9 112 - Elevation 4
A7.2 1:25

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NOTES:

R8

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CITY OF BRAMPTON,
2 Wellington Street W
Brampton, ON. L6Y 4R2

PROJECT:
22344
Brampton Memorial Arena Expansion
69 Elliott St.
Brampton, ON L6Y 1W2

ORIGINAL PAGE SIZE: ARCH D - 24" x 36"
KEY TO DETAIL LOCATION:
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B - DETAIL NO. ORIGIN

ONTARIO ASSOCIATION OF ARCHITECTS
Christopher Urban Hall
Licence 5396

VG ARCHITECTS
THE VENTIN GROUP LTD

SCALE: As indicated

INTERNAL ELEVATIONS

A7.2

FCI DATE: 2024-10-08 11:46:51 AM
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REVISIONS:		
NO.	DATE	PARTICULAR
6	2024.08.26	ISSUED FOR PERMIT & TENDER
7	2024.09.20	RE-ISSUED FOR TENDER
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NOTES:

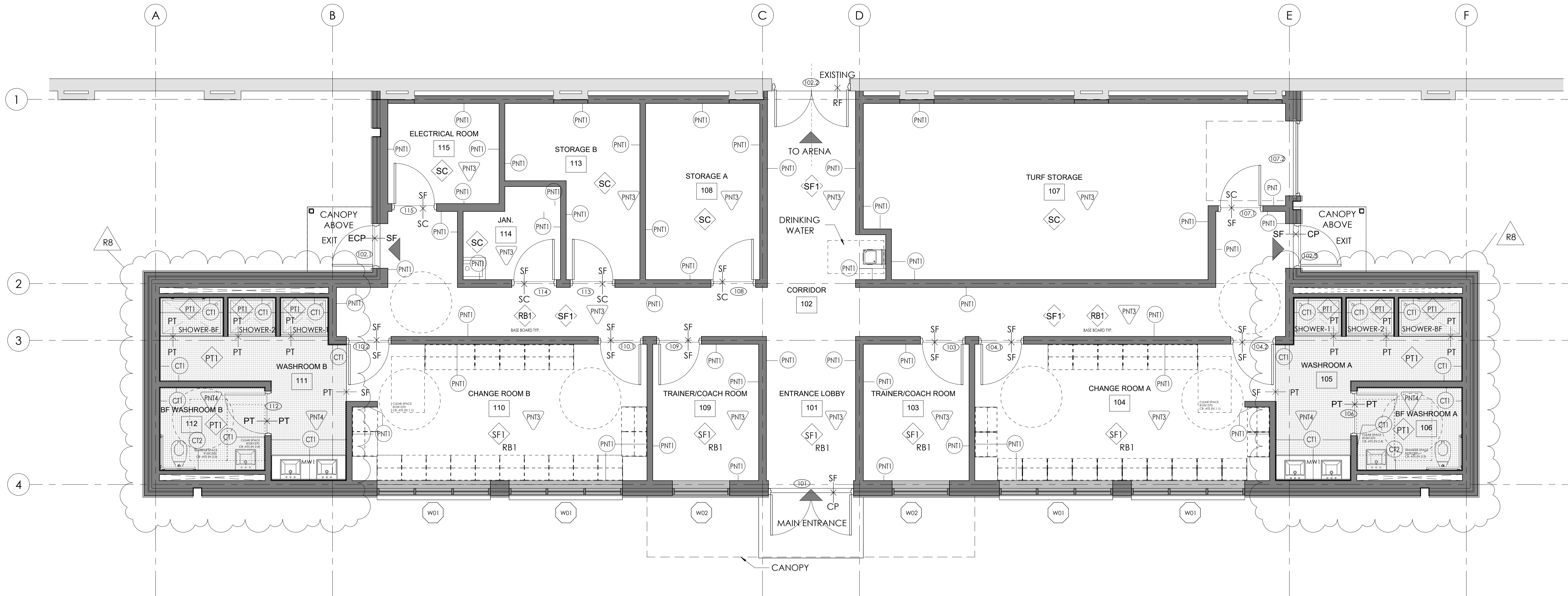
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1 A - Level 1 FINISHES PLAN
A9.1 1:50

ROOM FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	WALL FINISH	WALL BASE FINISH	FLOOR FINISH	CEILING FINISH	FURNITURE	MILLWORK	COMMENTS
101	ENTRANCE LOBBY	PNT1	RB1	SF1	EXP / PNT3	-	-	
102	CORRIDOR	PNT1	RB1	SF1	EXP / PNT3	-	-	
103	TRAINER/COACH ROOM	PNT1	RB1	SF1	EXP / PNT3	-	-	
104	CHANGE ROOM A	PNT1	RB1	SF1	GB / PNT4	Athletic Lockers	-	
105	WASHROOM A	CT1	-	PT1	GB / PNT4	-	Counter	
106	BF WASHROOM A	CT1/CT2	-	PT1	EXP / PNT3	-	-	CT2 ON WEST WALL
107	TURF STORAGE	PNT1	-	SC	EXP / PNT3	-	-	
108	STORAGE A	PNT1	-	SC	EXP / PNT3	-	-	
109	TRAINER/COACH ROOM	PNT1	RB1	SF1	EXP / PNT3	-	-	
110	CHANGE ROOM B	PNT1	RB1	SF1	EXP / PNT3	Athletic Lockers	-	
111	WASHROOM B	CT1	-	PT1	GB / PNT4	-	Counter	
112	BF WASHROOM B	CT1/CT2	-	PT1	GB / PNT4	-	-	CT2 ON WEST WALL
113	STORAGE B	PNT1	-	SC	EXP / PNT3	-	-	
114	JAN.	PNT1	-	SC	EXP / PNT3	-	-	
115	ELECTRICAL ROOM	PNT1	-	SC	EXP / PNT3	-	-	

WALL, TRIM & MILLWORK FINISHES		FLOOR FINISHES	
PNT 1	Paint - General Walls, Colour: TBD	PT 1	Porcelain Floor Tile - Quebec - Antifracile Fleck by Olympia Size: 50mm X 50mm Mosaic Pattern: Stack Bond
PNT 2	Paint - H.M. Frames and H.M. Doors Colour: TBD	SC	Sealed Concrete
PNT 3	Paint - Ceiling Colour - Exposed Ceilings Ducts, OWS, etc. Colour: TBD	SF	Sports Floor: Type: Omnisports 3.5, Grey Omnisports by Advantage Sport Colour: Grey
PNT 4	Paint - Ceiling Colour - Gypsum Ceiling Colour: TBD	CT 1	Ceramic Wall Tile: Farrow Dorset White by Stone Tile Size: 50 X 500 with min. grout joint Pattern: Stack Bond
CT 1	Ceramic Wall Tile: Farrow Dorset White by Stone Tile Size: 50 X 500 with min. grout joint Pattern: Stack Bond	CT 2	Ceramic Wall Tile: Farrow Norfolk Blue by Stone Tile Size: 50 X 500 with min. grout joint Pattern: Stack Bond
RB 1	Rubber Cove Wall Base Colour: TBD		

MATERIALS AND FINISH LEGEND	
TAG	ITEM
ACT	ACOUSTIC CEILING TILE
AL	ALUMINIUM
ECP	CONCRETE PAVERS - EXTERIOR
CPT	CARPET TILE
CT	CERAMIC TILE
CW	CURTAIN WALL
CL	CLEAR GLASS
ET	ETCHED OR TRANSLUCENT GLASS
FRG	FIER-RATED GLASS
GL	GLASS / GLAZING
GWB	GYPSUM BOARD
HRD WD	ENGINEERED WOOD
HM	HOLLOW METAL
IGU	INSULATED GLASS UNIT(S)
PT	PORCELAIN TILE
PREFIN	PREFINISHED
PNT	PAINT
PC	POLISHED CONCRETE
SC	SEALED CONCRETE
SF	SPORTS FLOOR
STN	STAIN
STL	STEEL
RT	RUBBER TILE
TG	TEMPERED GLASS
VP	VINYL PLANK
WD	WOOD

FLOOR FINISH DETAIL
1:1

MATERIALS AND FINISH LEGEND
1:1

Autodesk Docs / Brampton Memorial Arena Expansion (BMAE) / 22344_BMAE_ARCH[R22].rvt

VG ARCHITECTS
THE VENTIN GROUP LTD

ONTARIO ASSOCIATE ARCHITECTS
CHRISTOPHER J. VAN HALL
LICENCE 5396

SCALE: As indicated ROOM FINISH PLAN AND SCHEDULE

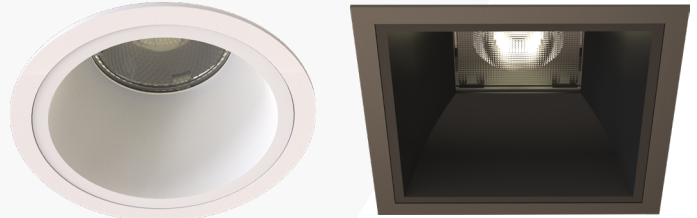
TAKEO 4"

Architectural Downlight



TAKEO ARCHITECTURAL DOWNLIGHTS

are part of a family of high performance luminaires that mixes a small, low profile, aesthetically pleasing form factor with high performance optical control and color quality. The shallow fixture height and narrow-flanged trim blends quietly into most ceiling spaces, while the field interchangeable optics and magnetically attached reflectors allow for easy change or updates. The TAKEO fixture family will work in your most demanding commercial, residential and hospitality area.



FEATURES

- Minimal 5/16" trim flange blends into ceilings
- Swing out brackets provide easy, secure installation
- Driver mounted separately from fixture maximize thermal performance and lifetime

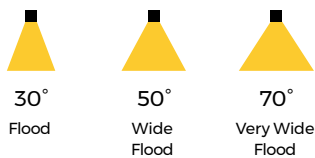
GOOD TO KNOW

- Also available in 6" and 8" round and square form factors
- New construction and remodel with the same LED module
- Combination of recessed optics from a shallow housing provides low glare rating, UGR<19

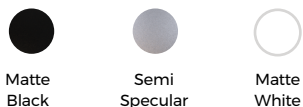
SPECIFICATIONS

Optical

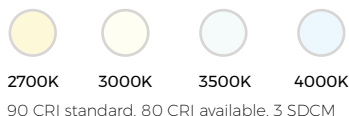
- Beam Angle



- Reflector Finish



- Color Temperature



Mechanical

- Two-piece construction; LED Module & Housing
- Round or Square fixture bodies
- Available with a self-flanged trim
- Trims install with swing out arms and set screws
- Install in ceilings between 1/4" and 1-3/8" thick
- Available in textured matte white or matte black

Housing

- New construction steel frame supplied with universal bar hangers and butterfly brackets
- Bar hangers are adjustable from 13-1/4" to 24-1/2"
- Fixture and driver are serviceable from below the ceiling

Electrical

- Universal 120-277V, 50/60Hz, 0-10V or 120V, 60Hz Triac/ELV dimming driver available
- Drivers connect to LED modules using plenum rated, quick connect cable

Thermal

- Die cast aluminum heat sink
- Ambient fixture operating range: -20°C to 40°C (-4°F to 104°F)

Compliance

- ETL listed for Wet locations

Warranty

- 5 Year limited parts warranty



TAKEO 4"

Architectural Downlight



Build Your Specification

A complete luminaire includes Product Codes for a Fixture and Housing, ordered separately

PRODUCT CODE

Fixture

TAK	SIZE / SHAPE	NOMINAL LUMEN OUTPUT	BEAM ANGLE	CRI / CCT	FIXTURE FINISH	REFLECTOR FINISH
TAK SERIES	4R 4" Round	12L 1200 lumens	4R - 4" Round	827 80 / 2700K	BL Textured Matte Black	BL Matte Black
TAK TAKEO	4S 4" Square	16L 1600 lumens	FL Flood (30°)	830 80 / 3000K	WH Textured Matte White	SS Semi Specular
			WF Wide Flood (50°)	835 80 / 3500K	CF Custom Finish	WH Matte White
			4S - 4" Square	840 80 / 4000K		CF Custom Finish
			VF Very Wide Flood (70°)	927 90 / 2700K		
				930 90 / 3000K		
				935 90 / 3500K		
				940 90 / 4000K		

1 Specify RAL # from K5 classic collection

Housing

TAK	SIZE / SHAPE	NOMINAL LUMEN OUTPUT	TYPE	VOLTAGE / DRIVER	OPTIONS
TAK SERIES	4R 4" Round	12L 1200 lumens	NC New Construction Non-IC	PD120V 120V only, Phase dimming Triac & ELV	EM Emergency battery backup, consult factory for installation options
TAK TAKEO	4S 4" Square	16L 1600 lumens	RM Remodel Non-IC	010UNV Universal 120-277V, 0-10V dimming	
			REM Remote, consult factory		

TAKEO 4"

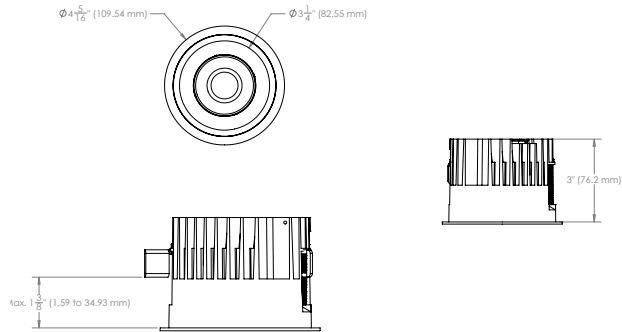
Architectural Downlight

VEROZZA
A NEKO LIGHTING GLOBAL PARTNER

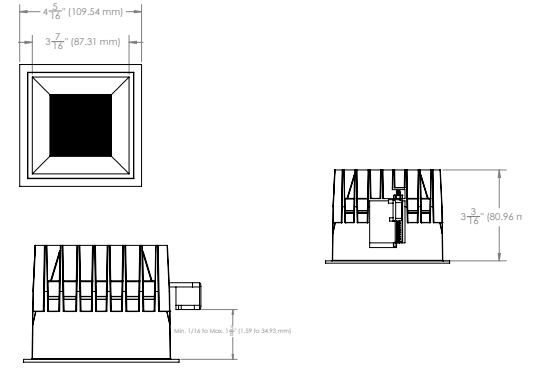
DIMENSIONS

Fixture

Takeo 4" Round

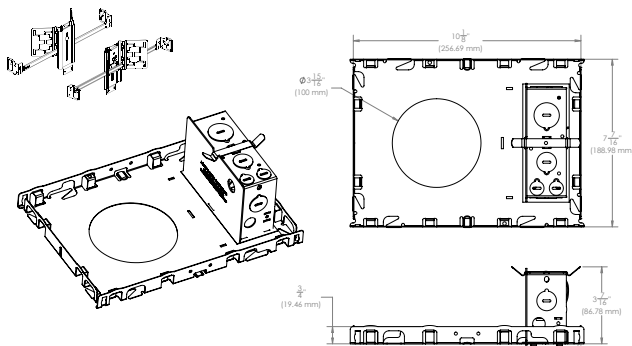


Takeo 4" Square

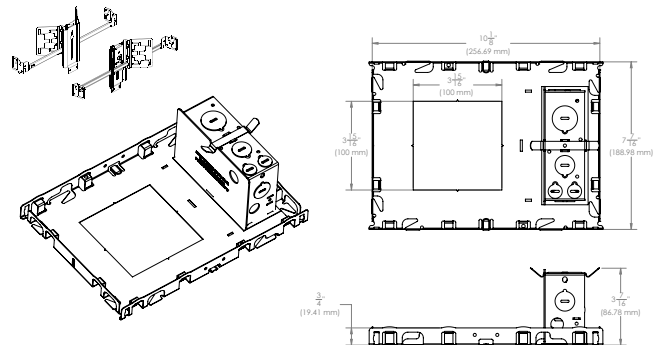


Housing

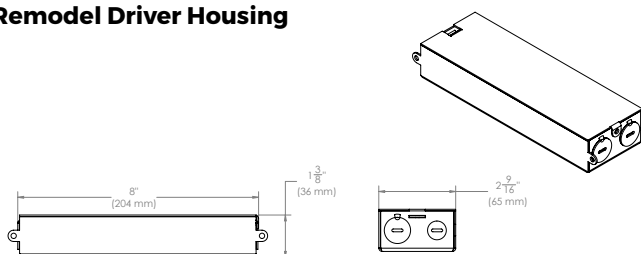
Non-IC New Construction | Round



Non-IC New Construction | Square



Remodel Driver Housing

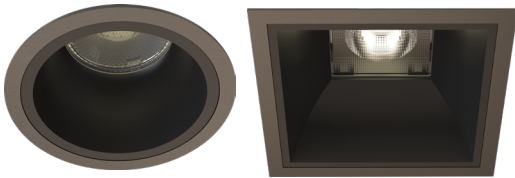


Fixture	Ceiling Cutout
Takeo 4R, 4" Round	$\Phi 4"$ (100mm)
Takeo 4S, 4" Square	4" x 4" (100 x 100mm)

TAKEO 4" Architectural Downlight



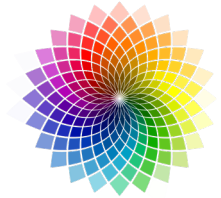
FIXTURE FINISH



BL = Black

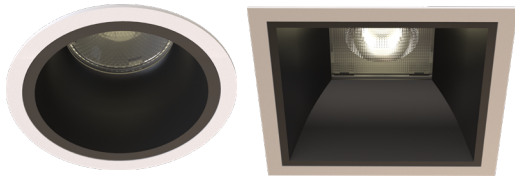


WH = White



CF = Custom Finish

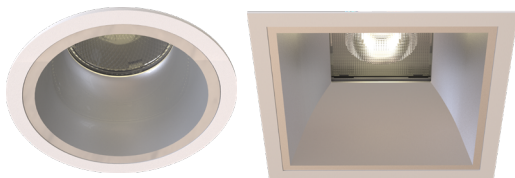
REFLECTOR FINISH



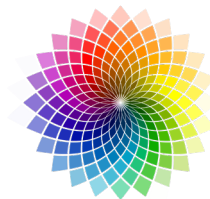
BL = Black



WH = White



SS = Semi Specular



CF = Custom Finish

TAKEO 4"

Architectural Downlight



PHOTOMETRIC PERFORMANCE

Technical Information table

Fixture	Input Voltage	Input Current	Input Power	THD	Power Factor
TAK-4X-12L	120/277V	75mA/32mA	9W	<20%	>0.9
TAK-4X-16L	120/277V	108mA/47mA	13W	<20%	>0.9

Nominal Performance

Fixture	Beam Angle	80CRI, 4000K	
		Lumens	LPW
Takeo 4" Round 12L, Semi-Specular Reflector	FL = Flood (30°)	1239	139
	WF = Wide Flood (50°)	1054	119
Takeo 4" Square 12L, Semi-Specular Reflector	VF = Very Wide Flood (60°)	939	100
Takeo 4" Round 16L, Semi-Specular Reflector	FL = Flood (30°)	1612	132
	WF = Wide Flood (50°)	1369	112
Takeo 4" Square 16L, Semi-Specular Reflector	VF = Very Wide Flood (60°)	1211	93

Multiplier Tables

CRI	Conversion Factor
80	1
90	0.85

CCT	Conversion Factor
2700K	0.88
3000K	0.93
3500K	0.96
4000K	1.00

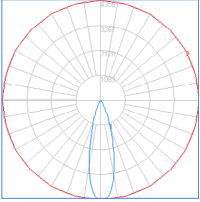
Reflector Finish	Conversion Factor
Semi-Specular (SS)	0.97
Matte White (WH)	1.00
Matte Black (BL)	0.88

TAKEO 4"

Architectural Downlight



PHOTOMETRY

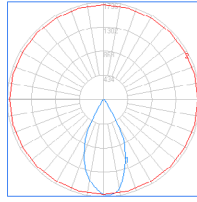
TAK-4R-12L-FL-840-WH-SS


IES Test Information	
Test File	T100-9W-840-30
Lumens	1239
CBCP (cd)	4353
Power (W)	9
Efficacy (LPW)	139
CRI	80
CCT	4000K
Spacing Criteria (S/H)	0.5
Beam Angle (°)	28

Candlepower Distribution	
Angle (°)	Average (cd)
10	3138
20	1024
30	232
40	69
50	16
60	3
70	1
80	0
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1123	90.6%
0-60	1236	99.8%
0-90	1239	100.0%

Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	284	1.6	0.5
6.6	2	71	3.3	1
9.8	3	32	4.9	1.5
13.1	4	18	6.6	2
16.4	5	11	8.2	2.5

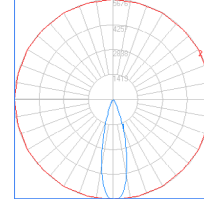
TAK-4R-12L-WF-840-WH-SS


IES Test Information	
Test File	T100-9W-840-50
Lumens	1054
CBCP (cd)	1693
Power (W)	9
Efficacy (LPW)	119
CRI	80
CCT	4000K
Spacing Criteria (S/H)	0.8
Beam Angle (°)	49

Candlepower Distribution	
Angle (°)	Average (cd)
10	1547
20	1087
30	455
40	65
50	27
60	8
70	3
80	1
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	890	84.4%
0-60	1046	99.2%
0-90	1054	100.0%

Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	99	3.0	0.9
6.6	2	25	5.9	1.8
9.8	3	11	8.9	2.7
13.1	4	6	12.1	3.7
16.4	5	4	15.1	4.6

TAK-4R-16L-FL-840-WH-SS


IES Test Information	
Test File	T100-13W-840-30
Lumens	1612
CBCP (cd)	5670
Power (W)	12
Efficacy (LPW)	132
CRI	80
CCT	4000K
Spacing Criteria (S/H)	0.5
Beam Angle (°)	28

Candlepower Distribution	
Angle (°)	Average (cd)
10	4089
20	1333
30	300
40	90
50	20
60	4
70	1
80	0
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1462	90.7%
0-60	1609	99.8%
0-90	1612	100.0%

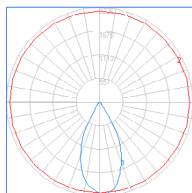
Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	371	1.6	0.5
6.6	2	93	3.3	1
9.8	3	41	4.9	1.5
13.1	4	23	6.6	2
16.4	5	15	8.2	2.5

TAKEO 4"

Architectural Downlight



PHOTOMETRY

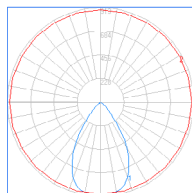
TAK-4R-16L-WF-840-WH-SS


IES Test Information	
Test File	T100-13W-840-50
Lumens	1369
CBCP (cd)	2145
Power (W)	12
Efficacy (LPW)	112
CRI	80
CCT	4000K
Spacing Criteria (S/H)	0.8
Beam Angle (°)	50

Candlepower Distribution	
Angle (°)	Average (cd)
10	1977
20	1414
30	607
40	85
50	35
60	11
70	4
80	1
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1151	84.1%
0-60	1359	99.3%
0-90	1369	100.0%

Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	127	3.0	0.9
6.6	2	32	5.9	1.8
9.8	3	14	9.2	2.8
13.1	4	8	12.1	3.7
16.4	5	5	15.1	4.6

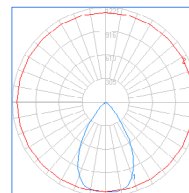
TAK-4S-12L-VF-840-WH-SS


IES Test Information	
Test File	TS100-9W-840-30
Lumens	939
CBCP (cd)	890
Power (W)	9
Efficacy (LPW)	100
CRI	80
CCT	4000K
Spacing Criteria (S/H)	1
Beam Angle (°)	63

Candlepower Distribution	
Angle (°)	Average (cd)
10	885
20	768
30	502
40	206
50	49
60	4
70	1
80	0
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	615	65.5%
0-60	937	99.8%
0-90	939	100.0%

Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	51	3.9	1.2
6.6	2	13	8.2	2.5
9.8	3	6	11.8	3.6
13.1	4	3	16.1	4.9
16.4	5	2	20.0	6.1

TAK-4S-16L-VF-840-WH-SS


IES Test Information	
Test File	TS100-13W-840-50
Lumens	1211
CBCP (cd)	1157
Power (W)	13
Efficacy (LPW)	93
CRI	80
CCT	4000K
Spacing Criteria (S/H)	1
Beam Angle (°)	62

Candlepower Distribution	
Angle (°)	Average (cd)
10	1146
20	990
30	646
40	266
50	64
60	5
70	1
80	0
90	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	793	65.5%
0-60	1209	99.8%
0-90	1211	100.0%

Cone data				
Fixture Height		Avg	Beam Diameter	
ft	m	(fc)	ft	m
3.3	1	68	3.9	1.2
6.6	2	17	7.9	2.4
9.8	3	8	11.8	3.6
13.1	4	4	15.7	4.8
16.4	5	3	19.7	6

BSS214 | **bodhi**

3" square LED luminaire with flush lens

Project: _____ Type: **L1A & L1B**



Highlighted fields denote QuickShip Options. See complete 7-Day QuickShip Terms and Conditions available at www.bartcolighting.com/quickship-products/. Purchase order must reference "QuickShip".

FEATURES

The BSS214 is a linear LED luminaire for general lighting applications. The 3" square extrusion is fitted with a flush, frosted lens and machined aluminum end caps. Surface, cable or wall mounting options are available, as well as a variety of dimming drivers and light outputs, to maximize the versatility of this clean design luminaire. The BSS214 is Controls Capable, being offered with a variety of integrated control options.

Fixture with certain options available for 7-Day QuickShip.

SPECIFICATIONS

Fixture constructed of an extruded aluminum housing, extruded, frosted acrylic lens and machined aluminum end caps.

Model variations offered for surface, wall mount and cable suspended applications.

Standard finishes as shown below.

Available in nominal lengths of 2'-8' single fixtures and continuous runs.

Basic continuous run fixtures provided with 18 ga. wiring harness for 6 Amp maximum load (consult factory for runs requiring multiple circuits, sensor integration, etc.).

Standard integral 120-277V driver offered with 0-10V dimming or non-dim (other dimming driver options available).

Integral 120-277V emergency battery backup available for 4' or 8' nominal non-dim or 0-10V (consult factory for all other lengths/drivers).

Standard outputs are 555, 720, and 950 lumens per foot.

LEDs available in 2700K, 3000K, 3500K and 4000K, within a 3 step MacAdam ellipse, all with 90+ CRI typical.

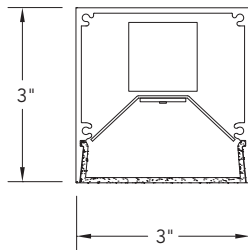
Life: 50,000 hours L₇₀.

Bartco Lighting Controls Capable fixture available with integrated controls from a variety of suppliers.

Limited five year warranty.

UL and C-UL listed for dry and damp locations.

SECTION



PERFORMANCE

Note: All data reflects fixture with 3500K LEDs

NOMINAL LENGTH	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	L: low	555	5.6	2071	100
	R: regular	720	7.7	2690	93
	H: high	950	10.6	3535	88



BSS214 -

NOMINAL FIXTURE LENGTH*	CORRELATED COLOR TEMPERATURE	DRIVER	LIGHT OUTPUT (lumens per foot)	MOUNT	OPTIONS	FINISH
2: 22-3/4"	27: 2700K-90+ CRI	ND: non-dimming	L: low - 555	SM: surface mount	ED: emergency driver (4' or 8' non-dim or 0-10V only)	AW: architectural white (semi-matte)
3: 33-3/4"	30: 3000K-90+ CRI	D: 0-10V, 1% [Dimming]	R: regular - 720	WD: wall mount - direct	WS1A: Wattstopper FS-205, 100%-0% ‡	WH: white (semi-gloss)
4: 44-3/4"	35: 3500K-90+ CRI	DTR: triac, 1%, (120V ONLY)	H: high - 950	WI: wall mount - indirect	WS1B: Wattstopper FS-205, 100%-50% ‡	BL: black (semi-matte)
5: 55-3/4"	40: 4000K-90+ CRI	DLV: electronic low voltage, 1%, (120V ONLY)	CF: consult factory for custom output	C4: cable mount 4' cable length	EN1: Enlighted FS-D22 ‡	MB: matte black
6: 66-3/4"		HES: Lutron EcoSystem, soft-on/fade-to-black, 1%		C8: cable mount 8' cable length	ES4: Philips EasySense SNS211 MC ‡	ESS: environmental satin silver
7: 77-3/4"		EL: eldoLED ECOdrive 0-10V, 1%			CA1: Casambi CBU-A2D ‡	BZ: bronze
8: 88-3/4"		ES: eldoLED SOLOdrive 0-10V, 0.1%			NL1: nLight RES7 ‡	PR: primer
		ELD: eldoLED ECOdrive DALI, 1%			NL2: nLight RIO ‡	CF: consult factory for custom finish
		ESD: eldoLED SOLOdrive DALI, 0.1%			LA1: Lutron Athena A-WN-D01-RF-WH ‡	SA: satin anodize (may require additional lead time)
					LA2: Lutron Athena A-WN-D01-OCC-WH ‡	

* Actual dimension dependent on run configuration.

‡ See Integrated Controls section for driver compatibility information.

MOUNTING

	ORDERING CODE	DESCRIPTION
	SM	SURFACE MOUNT Use appropriate fastener through $\varnothing 3/16"$ holes in housing.
	WD	WALL MOUNT - DIRECT ORIENTATION Mounting option includes: <ul style="list-style-type: none"> • 1-7/8" H x 4-1/2" W aluminum bracket projects the fixture housing 3/4" from the wall surface.
	WI	WALL MOUNT - INDIRECT ORIENTATION Mounting option includes: <ul style="list-style-type: none"> • 1-7/8" H x 4-1/2" W aluminum bracket projects the fixture housing 3/4" from the wall surface.
	C4 and C8	CABLE MOUNT Mounting option includes: <ul style="list-style-type: none"> • $\varnothing 1/16"$ x 48" (C4) or 96" (C8) aircraft cables • 60" (C4) or 108" (C8) power cable (in coordinating finish) • Bracket bars • $\varnothing 5"$ white canopies • Ceiling couplers • Side exit cable grippers

OPTIONS

ORDERING CODE	DESCRIPTION	SPECIFICATIONS
ED	EMERGENCY LED DRIVER	<ul style="list-style-type: none"> • Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes. • Available for 4' or 8' nominal length non-dim or 0-10V fixture only (consult factory for all other lengths/drivers). • Indicator light/test switch located on housing side for surface mount and upper side for cable suspended mount.

OPTIONS - INTEGRATED CONTROLS

Note: Control option takes up 4" of the overall lens length.
Controls are mounted to flush filler piece.



	ORDERING CODE	LIGHT OUTPUT SETTING	MODEL	CONTROL PROTOCOL	FUNCTIONS	COMPATIBLE DRIVERS
 legrand <small>WATTSTOPPER®</small>	WS1A	100% – 0% ¹	FS-205	N/A	PIR occupancy and light level sensor.	For use with on/off or 0-10V dimming drivers only.
	WS1B	100% – 50% ¹				
 Enlighted	EN1	Set during commissioning	FS-D22	Bluetooth Wireless	PIR occupancy, ambient light sensing, daylight harvesting, and environment monitoring for use within an Enlighted control network.	Provided with Advance sensor ready series 0-10V dimming drivers.
 PHILIPS <small>EasySense</small>	ES4	Set during commissioning	SNS211 MC	Bluetooth Wireless	Occupancy, daylight harvesting and task tuning sensor with advance grouping, for use within a MasterConnect network.	Provided with Advance sensor ready series 0-10V dimming drivers.
 CASAMBI	CA1	Set during commissioning	CBU-A2D	Bluetooth Wireless	0-10V/DALI driver controller, for use within a Casambi ecosystem.	For use with 0-10V or DALI drivers. Consult factory for details.
 nLIGHT	NL1	Set during commissioning	RES7 ²	Radio Wireless	Dimming, PIR occupancy detection and daylight harvesting, for use within an nLight AIR network.	Provided with Advance sensor ready series or eldoLED 0-10V drivers.
	NL2		RIO ²		Dimming, for use within an nLight AIR network.	
 LUTRON	LA1	Set during commissioning	A-WN-D01-RF-WH	Radio Wireless	Dimming only for use with an Athena control system.	Provided with Advance sensor ready series or eldoLED 0-10V or eldoLED DALI-2 drivers.
	LA2		A-WN-D01-OCC-WH		Dimming, PIR occupancy and daylight sensor for use with an Athena control system.	

1. Consult factory for custom light output setting.

2. Consult your Acuity representative for application-specific model number.

BSS214 | **bodhi**

3" square LED luminaire with flush lens

LENGTH / MOUNTING DIMENSIONS

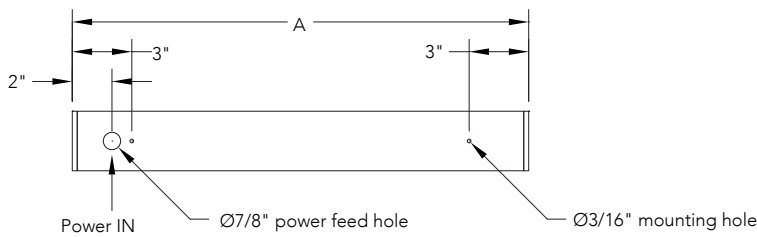
ORDERING CODE	LENGTH A	LENGTH B	LENGTH C	LENGTH D	LENGTH E
2	22-3/4"	22-1/2"	22-1/4"	16-3/4"	19-1/2"
3	33-3/4"	33-1/2"	33-1/4"	27-3/4"	30-1/2"
4	44-3/4"	44-1/2"	44-1/4"	38-3/4"	41-1/2"
5	55-3/4"	55-1/2"	55-1/4"	49-3/4"	52-1/2"
6	66-3/4"	66-1/2"	66-1/4"	60-3/4"	63-1/2"
7	77-3/4"	77-1/2"	77-1/4"	71-3/4"	74-1/2"
8	88-3/4"	88-1/2"	88-1/4"	82-3/4"	85-1/2"

RUN CONFIGURATION INFORMATION

ORDERING CODE	DESCRIPTION
SN	Single
ST	Starter
AD	Adder
TR	Terminator

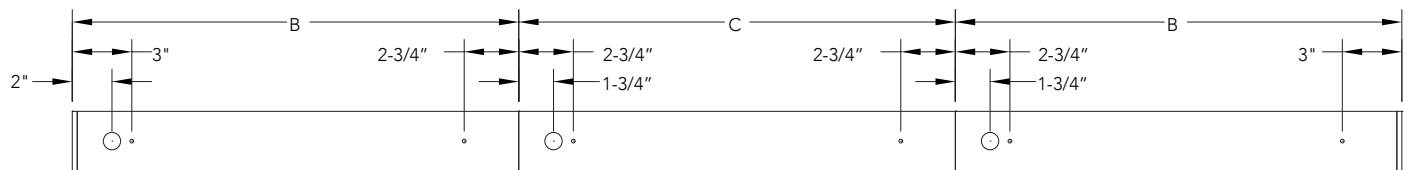
RUN INFORMATION

Back Plan - Surface Mount Single Fixture Option



SN

Back Plan - Surface Mount Continuous Run Option

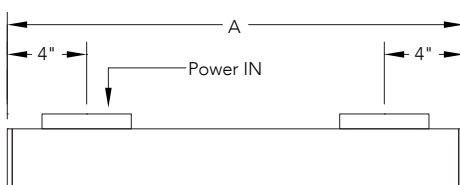


ST

AD

TR

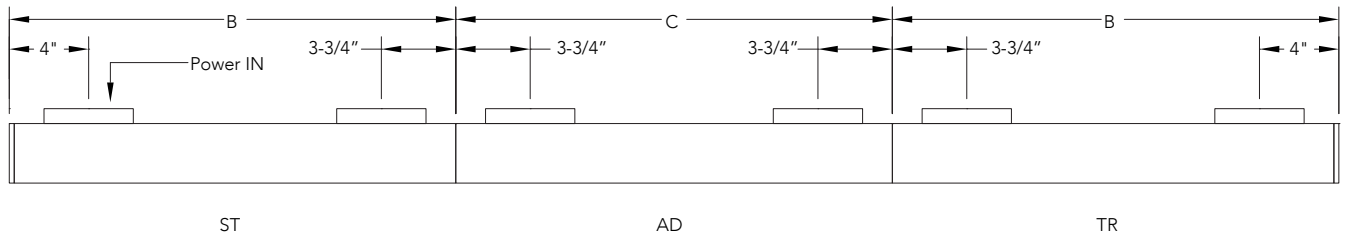
Plan - Wall Mount Single Fixture Option



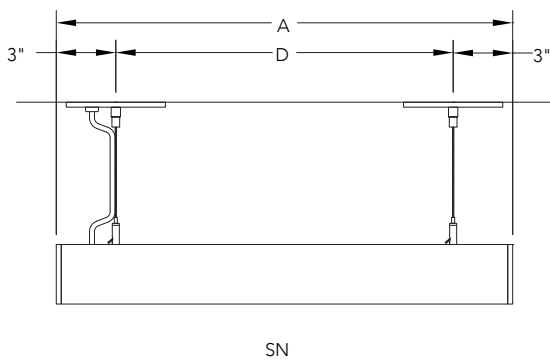
SN

RUN INFORMATION

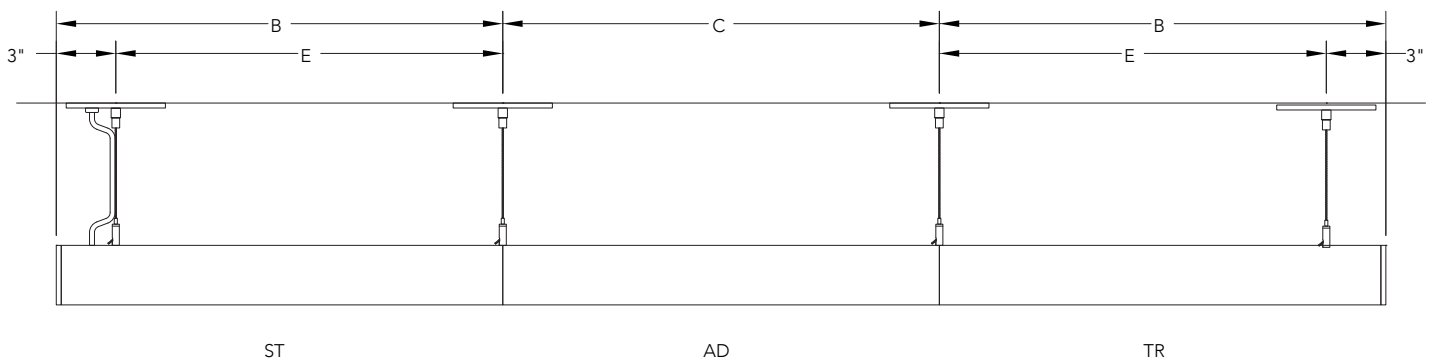
Plan - Wall Mount Continuous Fixture Option



Side View - Cable Mount Single Fixture Option



Side View - Cable Mount Continuous Run Option





PROJECT NAME

CATALOG NO.

TYPE **L2**

DATE

NOTE

LINEAR LED STRIP

ILL-S2 Series

Linear Luminaires

DESCRIPTION

The Alphalite ILL Series makes it an ideal choice for size restricted architecture applications. The ILL Series can be the illumination solution in commercial, industrial, retail and residential applications. Fixtures can be used in storage/utility areas, coves, display cases, shops, task and general area lighting.

APPLICATION

Versatile solution for general purpose applications. Ideal for parking garages, corridors, hallways, stairwells, offices, closets, storage rooms, warehouse, manufacturing facilities, and spaces that demand energy demand reduction and high quality light.



SPECIFICATION FEATURES

Benefits

- Lower installation costs and maintenance costs
- Attractive ROI
- Ideal for use with sensors and advanced controls
- Lower energy costs
- High quality light for a more productive space
- Convenient access to replaceable, standard components reduces life cycle costs

Construction

Reflector utilizes highly reflective powder coat finish. Diffuser lens provides even and consistent light while eliminating pixelation. Tool-less removal of diffuser allows access to LED array. LED module and driver are replaceable. Housing and optics maintain damp location rating with all internal components.

Finish

Highly reflective finish. Baked white paint, applied after fabrication.

Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Optics

The ILL's LED light engine and integrated optics delivers enhanced light quality and distribution. Precision-formed diffuser and reflector are designed LED light consistently, reducing glare and pixelation.

Certifications / Regulatory

All components used have UL approval. DLC Listed. UL Class 2 Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty

7-year limited warranty. See complete warranty terms for details.

Quick Ship Product

- ILL-2L(20S2)/835
- ILL-2L(20S2)/840
- ILL-4H(35S2)/830
- ILL-4H(35S2)/835
- ILL-4VH(45S2)/840
- ILL-8H(54S2)/840
- ILL-4H(35/25/18S2)/850
- ILL-4VH(64/56/46S2)/835
- ILL-4VH(64/56/46S2)/850
- ILL-8H(90/75/65S2)/835
- ILL-8H(90/75/65S2)/840
- ILL-8H(90/75/65S2)/850

ORDERING INFORMATION

Sample Number: ILL-8H(65S2)/840

ILL	8	H	8	40	(Blank)	(Blank)
Series	Form Factor	Lumen Package	CRI	CCT	Input Voltage	Dimming
ILL - Linear LED Strip	2 - 2' 4 - 4' 8 - 8'	VL - Very Low Wattage L - Low Wattage H - High Lumen VH - Very High Lumen *See energy data for details	8 - 82+ CRI	35 - 3500K 40 - 4000K 50 - 5000K A - Adjustable CCT (5000/4000/3500K)	(Blank) - 120-277V C - 120-347V	(Blank) - 0-10V Continuous Dimming

Options

Accessories

- WG - Wire Guard
- WIEC-18/5 - Quick Disconnect Wiring
- ZCN - End Connector

Driver Options

CT - Cold temperature driver, -40°F-131°F (-40°C-55°C)

Controls

- PIR - On/off PIR High Bay motion sensor
- PIRD - On/off PIR high bay motion and daylight sensor
- OS - Step dimming PIR motion sensor and daylight sensor
- MMS - Multifunction Motion Sensor (Motion detection/Photocell/Dimming)
- MMS-DL - Multifunction Motion Sensor (Motion detection/Photocell/Dimming/Daylight harvesting)
- DL - Integrated daylight harvesting
- SMC - Smart Control System

Remarks: Sensor configuration tool remote control required, not included

Emergency Backup

- (Lumen will maintain over the 90-minute duration)
- EM700 - 700lm
- EM1400 - 1400lm
- EM2000 - 2000lm

Assembly in USA

BAA - Assembly in USA



11920 Altamar Pl., Santa Fe Springs, CA 90670
Tel: 888.287.9228 | Fax: 888.258.9183 | support@alphalite.com | alphalite.com

SUMMARY

Input Voltage	120-277V
Input Power	See energy data for details
Power Factor	>0.90
THD (Max.)	10%
Efficacy	>130 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	>80
CCT	3500,4000,5000K 3500/4000/5000K Selectable
Operating Temp.	-4°F ~ 133°F (-20°C ~ +55°C)
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)	
2'	ILL-2L(20S2)/835	20	2463	130	
	ILL-2L(20S2)/840				
	ILL-2L(20S2)/850				
4'	ILL-4L(25S2)/835	25	3250	130	
	ILL-4L(25S2)/840				
	ILL-4L(25S2)/850				
	ILL-4H(35S2)/835	35	4550	130	
	ILL-4H(35S2)/840				
	ILL-4H(35S2)/850				
	ILL-4H(45S2)/835	45	5850	130	
	ILL-4H(45S2)/840				
	ILL-4H(45S2)/850				
	8'	ILL-4H(35/25/18S2)/835*	35/25/18	4725/3375/2430	135
ILL-4H(35/25/18S2)/840*					
ILL-4H(35/25/18S2)/850*					
ILL-4VH(64/56/46S2)/835*		64/56/46	8000/7000/5750	130	
ILL-4VH(64/56/46S2)/840*					
ILL-4VH(64/56/46S2)/850*					
ILL-4H(35/25/18S2)/8A		30/25/18	3900/3250/2358	130	
ILL-4VH(64/56/46S2)/8A		64/56/46	8320/7280/5980	130	
8'		ILL-8L(54/46/38S2)/835*	54/46/38	7290/6210/5130	135
		ILL-8L(54/46/38S2)/840*			
	ILL-8L(54/46/38S2)/850*				
	ILL-8H(90/75/65S2)/835*	90/75/65	11700/9750/8450	130	
	ILL-8H(90/75/65S2)/840*				
ILL-8H(90/75/65S2)/850*					

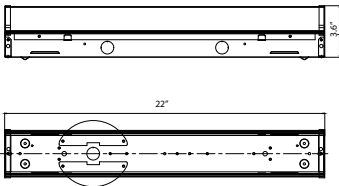
* DLC 5.1 Standard Listed

PHYSICAL PARAMETERS

DIMENSION

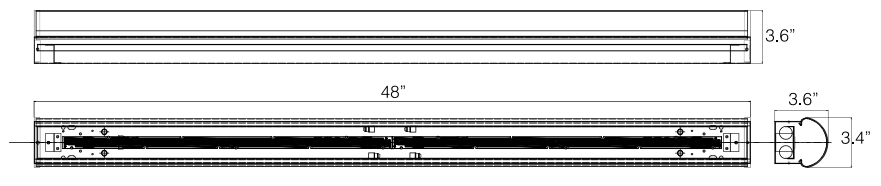
ILL-2

2.91 Lbs.



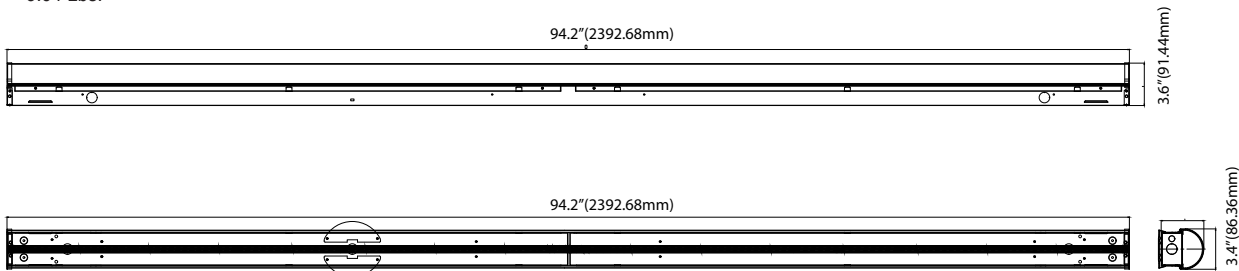
ILL-4

4.52 Lbs.



ILL-8

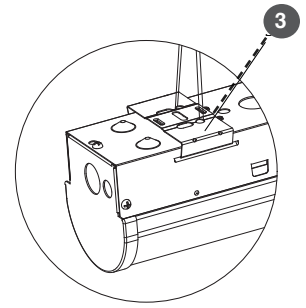
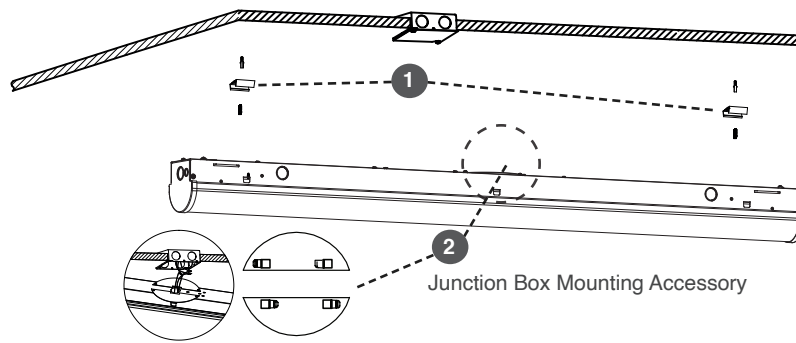
9.04 Lbs.



MOUNTING INFORMATION

ILL-S2 Series

- 1: Surface/wall Mount
- 2: Junction Box Mount
- 3: Suspension Mount
- 4: Chain Mount
- 5: Pendant Mount



CONTROL OPTION

-DMMS/MMS control pre-commissioning

Sample Number: -MMS (5-3M-L3-S10M)

10	3M	L3	S10M	(Blank)
Detection Area 5 - 50% 1 - 10%	Hold Time 20M - 20 min. 3M - 3 min. 90S - 90 sec. 30S - 30 sec. 5S - 5 sec. N - ∞	Low Mode L5 - 50% L3 - 30% L2 - 20% L1 - 10%	Stand-by Period SN - ∞ S1H - 1 hr. S30M - 30 min. S10M - 10 min. S5M - 5 min. S5S - 5 sec. (Blank) - Disable	Daylight Sensor (Blank) - Disable D100 - 100 lux D50 - 50 lux D25 - 25 lux D10 - 10 lux D5 - 5 lux D2 - 2 lux
<p>Detection Area: Detection area can be reduced to fit precisely each application.</p> <p>Hold Time: The time period the luminaire remains at 100% illumination after no motion detected.</p> <p>Low Mode: The selected low light level after the hold time.</p> <p>Stand-by Period: The time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected.</p> <p>Daylight Sensor: The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold. When set to "Disable" mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level.</p> <p>**Noted that daylight sensor is active only when the luminaire switches off**</p>				

-OS control pre-commissioning

Sample Number: -OS (L2-5M-L3-S10M)

L2	(Blank)	5M	L3	S10M	(Blank)	(Blank)	(Blank)
Lens / Coverage L2 - 8'H (48' dia.) L3 - 20'H (40' dia.) L4 - 40'H (60' dia.) L7 - 40'H (100' dia.)	High Mode (Blank) - 100% H9 - 90% H8 - 80% H7 - 70%	Hold Time #M - 1-30 min. 30S - 30 sec.	Low Mode L5 - 50% L3 - 30% L2 - 20% L1 - 10%	Stand-by Period SN - ∞ S#H - 1-5 hrs. S#M - 1-59 min. (Blank) - Disable	Ramp Up (Blank) - Disable #Up - 1-60 sec.	Fade Down (Blank) - Disable #Dn - 1-60 sec.	Photocell On/Off (Blank) - Disable PS - Active
<p>High Mode: The selected high light level when motion detected.</p> <p>Hold Time: Time period the luminaire remains at "High Mode" after no motion detected.</p> <p>Low Mode: The selected low light level after the hold time.</p> <p>Stand-by Period: Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected.</p> <p>Ramp Up: Time period for light level to increase from LOW to HIGH.</p> <p>Fade Down: Time period for light level to decrease from HIGH to LOW.</p> <p>Photocell On/Off: When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off set-point, there must be at least 10fc of dead band between the two settings. The Photocell set-point is automatically set to maintain at least 10fc of dead band above the Hold time set-point to help avoid load cycling.</p>							

APOLLO Vanity

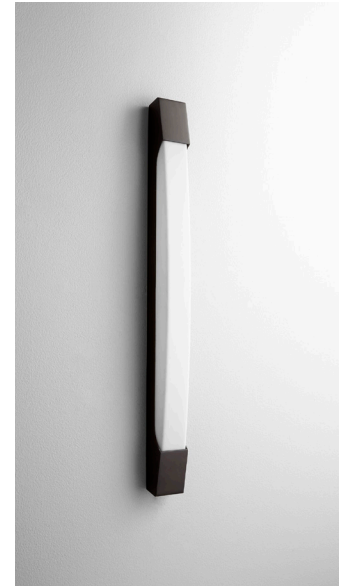
3-524-xx

oxygen

FIXTURE TYPE WS1 LOCATION _____
 PROJECT _____ DATE _____



-22 Oiled Bronze



Alternative position

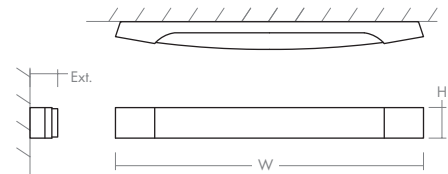


-14 Polished Chrome



-24 Satin Nickel

LIGHT SOURCE 2 x 10.1W LED, 3000K, CRI 90
LUMINAIRE POWER 24.1W at 120V
RATED LIFE 60000 hr RL
OPTIONAL COLOR TEMPERATURES 2700K, 3500K, 4000K
LUMEN OUTPUT Delivered: 1727 lm (LM-79)
INPUT VOLTAGE 120V to 277V AC, 50/60Hz
DRIVER OUTPUT 700mA, 29.4W max power
DIMMING TRIAC and ELV dimming at 120V AC;
 0-10V dimming, 100% to 1% current output
CONSTRUCTION Plated Steel and Acrylic
DIFFUSER - Matte White Acrylic
FINISHES Polished Chrome (-14), Oiled Bronze (-22),
 Satin Nickel (-24)
MOUNTING 4" Square J-Box* with a single device mud ring
 *Deep J-Box (Required to house driver)
STANDARDS UL Dry/Damp listed, ADA Compliant, CEC Title 24 Compliant,
 Conforms to UL STD 1598, Certified CAN/CSA STD C22.2 No 250.0.



DIMENSIONS

W: 27.75"
H: 2.75"
Ext: 2.50"
M.C: 1.38" From top of fixture

Order example for standard fixture:

3-524-24 (x- Voltage - xxx-Sequence # - xx-Finish)

3: 120V to 277V

Order example for optional color temperatures: **3-524-2724**

27: 2700K, 35: 3500K, 40: 4000K

