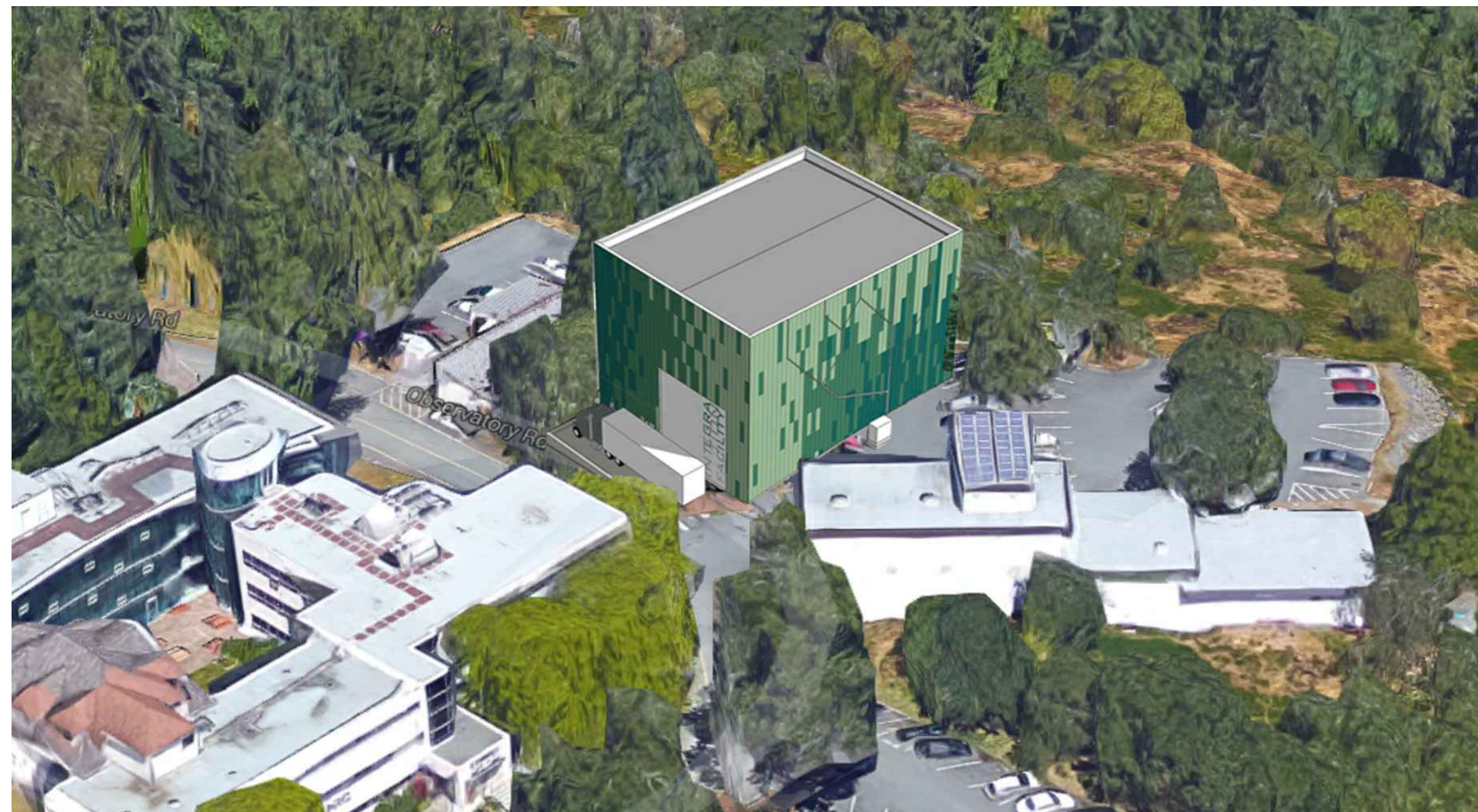


NRC HERZBERG ASTRONOMY AND ASTROPHYSICS ATP INTEGRATION FACILITY PHASE 2

5071 West Saanich Road
Victoria, British Columbia, Canada



SITE LOCATION PLAN



BIRD'S EYE VIEW OF SOUTHWEST CORNER

PROJECT TEAM

OWNER	HERZBERG ASTRONOMY AND ASTROPHYSICS NATIONAL RESEARCH COUNCIL CANADA
PROJECT MANAGER	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
DESIGN MANAGER	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
ARCHITECT	CHERNOFF THOMPSON ARCHITECTS
STRUCTURAL	CWMM CONSULTING ENGINEERS LTD.
MECHANICAL	AME GROUP
ELECTRICAL	AES ENGINEERING
CIVIL	WESTBROOK CONSULTING

DRAWING LIST: PHASE 2

ARCHITECTURAL

WA01	COVER SHEET
WA02	PROJECT DATA
WA03	EXISTING SITE PLAN
WA04	NEW SITE PLAN
WA05	GROUND FLOOR SLAB EDGE PLAN
WA06	GROUND FLOOR PLAN
WA07	PLAN AT 5.7M
WA07a	CRANE TOLERANCES, PLAN
WA07b	CRANE TOLERANCES, EAST SECTION
WA07c	CRANE TOLERANCES, BUILDING SECTIONS
WA08	ROOF PLAN
WA09	REFLECTED CEILING PLAN
WA10	NORTH & SOUTH BUILDING ELEVATIONS
WA11	EAST & WEST BUILDING ELEVATIONS
WA12	SOUTH BUILDING SECTIONS
WA13	EAST BUILDING SECTIONS
WA13a	WEST BUILDING SECTIONS
WA14	WALL SECTIONS
WA15	SECTION DETAILS
WA15A	SECTION DETAILS
WA16	SECTION DETAILS
WA17	PLAN DETAILS
WA18	PLAN/SECTION DETAILS
WA18 A	MISCELLANEOUS DETAILS
WA19	STAIRS
WA20	EXISTING SITE SERVICES BUILDING
WA21	INTERIOR ELEVATION/DOOR SCHEDULE
WA22	RENDERINGS

STRUCTURAL

WS101	GENERAL NOTES SHEET - 1
WS102	GENERAL NOTES SHEET - 2
WS103	TYPICAL DETAILS
WS201	FOUNDATION AND GROUND FLOOR PLAN
WS202	ROOF PLAN & CATWALK PLAN AND DETAILS
WS203	MEZZANINE PLANS & DETAILS
WS301	SECTIONS & DETAILS SHEET 1
WS302	SECTIONS & DETAILS SHEET 2
WS303	SECTIONS & DETAILS SHEET 3
WS401	SECTIONS & DETAILS SHEET 4
WS402	SECTIONS & DETAILS SHEET 5
WS403	CLT PANEL CONNECTION REQUIREMENTS

MECHANICAL

WM01	SITE PLAN
WM02	MECHANICAL MOTOR LIST
WM03	MECHANICAL SCHEDULES
WM04	FOUNDATION PLAN
WM05	PLUMBING AND FIRE PROTECTION PLAN
WM06	PLUMBING ROOF PLAN
WM07	SITE SERVICES BUILDING FIRE PROTECTION PLAN
WM08	HVAC GROUND FLOOR AND MEZZANINE PLAN
WM09	HVAC REFLECTED CEILING PLAN
WM10	MECHANICAL SECTIONS
WM11	MECHANICAL DETAILS

ELECTRICAL

WE1.0	ELECTRICAL LAYOUT AND LEGEND -WOOD OPTION
WE2.0	ELECTRICAL LAYOUTS - WOOD OPTION
WE3.0	SITE SERVICE BUILDING ELECTRICAL LAYOUT AND SINGLE LINE DIAGRAM
WE4.0	SCHEDULES

CIVIL

WC01	PHASE 2 SERVICING PLAN DETAILS
WC02	PHASE 2 GRADING PLAN DETAILS



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Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

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PAUL PREETIPAL

Drawing title/Titre du dessin

COVER SHEET

Project No./No. du
projet

R.077596.001

Sheet/ Feuille

WA 01

OF 22

Revision no./
La Révision
no.

3

PROJECT DATA

LEGAL DESCRIPTION:	LOT A LAKE LAND DISTRICT PLAN 17972 SECTION 62-64.
CIVIC ADDRESS:	5071 WEST SAANICH ROAD, VICTORIA, BRITISH COLUMBIA CANADA V9E 2E7
SITE AREA:	65.9268 HA
ZONING:	P-1 ASSEMBLY

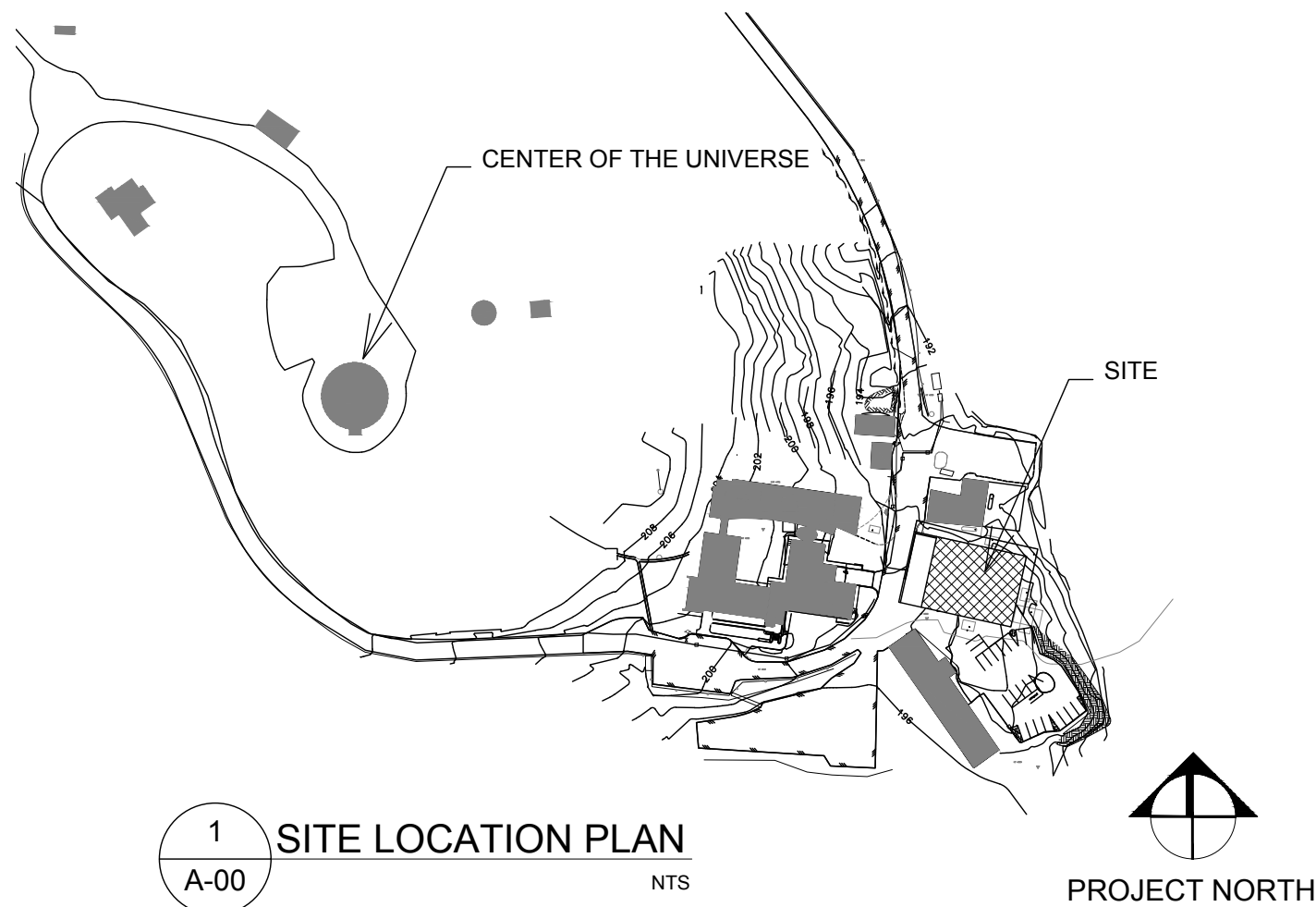
BUILDING CODE ANALYSIS

CODE REFERENCE:	NBC 2015
MAJOR OCCUPANCY:	GROUP F2 (MEDIUM HAZARD INDUSTRIAL OCCUPANCY)
CONSTRUCTION REQUIREMENT:	COMBUSTIBLE CONSTRUCTION PROVIDED
BUILDING AREA:	700.86 SQ. METERS
AREA OF MEZZANINE:	34.5 SQ. METERS
BUILDING HEIGHT:	1 STOREY
BUILDING CODE CLASSIFICATION:	3.2.2.72 (GROUP F, DIVISION 2) UP TO 2 STOREY, SPRINKLERED. MEZZANINE – NO FIRE RATING REQUIRED FOR NON-COMBUSTIBLE CONSTRUCTION.
GRADE:	194.7M
FIRST STOREY:	MAIN FLOOR (ELEVATION: 196.4M)
PRINCIPAL ENTRANCE:	DOOR 101a ON WEST WALL
TRAVEL DISTANCE	45M
SPRINKLER:	PROVIDED ACCORDING TO NFPA13
FIRE SEPARATION:	0HR FRR BETWEEN ELECTRICAL ROOM AND THE REST OF THE BUILDING
OCCUPANT LOAD CALCULATIONS REGULAR USE: MAXIMUM INCLUDING VISITORS:	2 TO 12 20
PLUMBING FIXTURE CALCULATION BASED ON TABLE 3.7.1 REQUIRED: PROVIDED: ACCESSIBILITY	1 MALE + 1 FEMALE 1 UNIVERSAL TOILET ROOM + 1 UNIVERSAL UNISEX WASHROOM
ACCESSIBLE ENTRANCE IS PROVIDED AT THE WEST ENTRANCE. UNIVERSAL TOILET ROOM IS PROVIDED.	

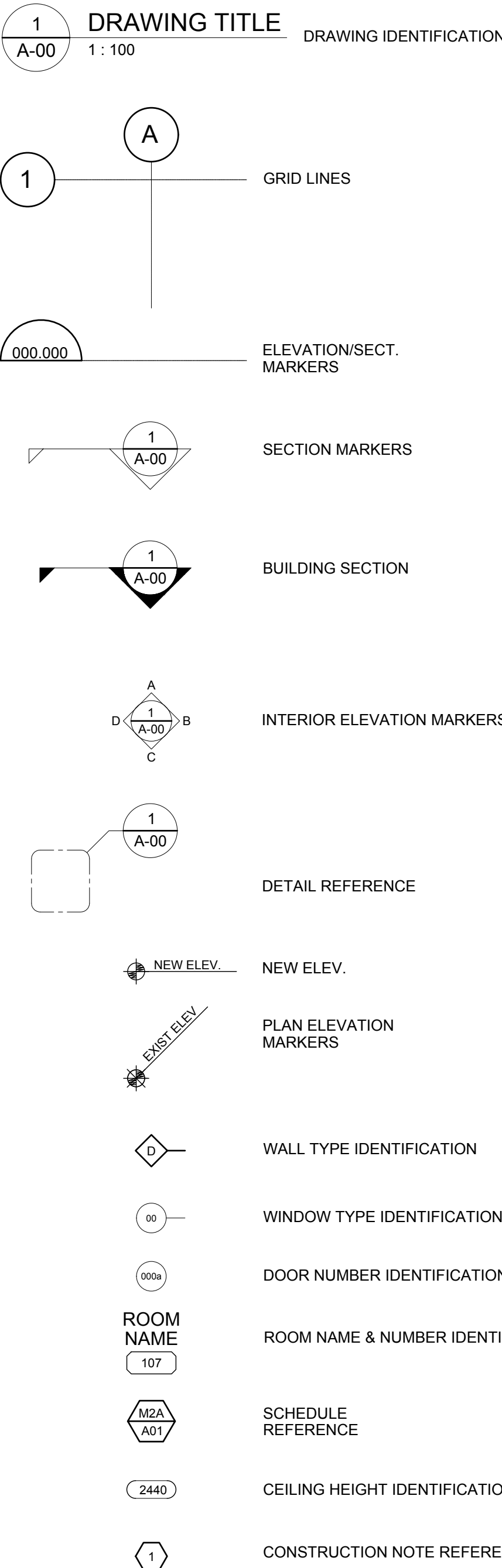
SPATIAL SEPARATION
OWING TO THE CLOSE PROXIMITY OF THE ADJACENT SITE SERVICES BUILDING AND THE NEW INTEGRATION FACILITY, A 2HR EXTERIOR WALL OF NON-COMBUSTIBLE CONSTRUCTION AND CLADDING IS REQUIRED ON THE NORTH WALL OF THE NEW BUILDING, MATCHING THE LENGTH OF THE ADJACENT BUILDING. SPRINKLER IS REQUIRED FOR BOTH BUILDINGS, AS SUCH, A NEW SPRINKLER SYSTEM IS PROVIDED TO THE EXISTING SITE SERVICES BUILDING.

DEMOLITION NOTES:

- DEMOLITION DRAWING ONLY SHOWS THE GENERAL SCOPE OF DEMOLITION. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING AND CARRYING OUT ALL NECESSARY DEMOLITION NOT SHOWN IN ORDER TO CLEAR UP THE PROJECT SITE READY FOR NEW BUILDING & NEW SITE IMPROVEMENT WORK.
- DEMOLISH EXISTING PARKING AS SHOWN ON DEMOLITION PLAN.
- DISCONNECT AND CAP OFF ALL UTILITY SERVICES INCLUDING GAS, WATER, SANITARY, STORM AND ELECTRICAL SERVICES. ALSO REFER TO MECHANICAL, ELECTRICAL & CIVIL DRAWINGS FOR SCOPE OF WORK.
- PROTECT EXISTING TREES TO BE RETAINED AS NEEDED DURING DEMOLITION.
- ALL DEMOLISHED MATERIAL AND DEBRIS TO BE REMOVED PROMPTLY FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
- SELLING OF ANY MATERIALS ON SITE IS NOT PERMITTED.
- CONTRACTOR TO REMOVE ALL EXISTING LANDSCAPE AND PAVING ON SITE BUT NOT LIMITING TO THOSE SHOWN ON DRAWINGS TO PREPARE THE SITE FOR NEW SITE WORK.
- COMPLY WITH ALL BYLAWS AND ACQUIRE ALL NECESSARY PERMITS.
- COMPLY WITH ALL WORKER'S COMPENSATION BOARD OF BC. ACCIDENT PREVENTION REGULATIONS.



ARCHITECTURAL SYMBOLS



GENERAL CONSTRUCTION NOTES:

- UNLESS NOTED ON DRAWINGS, TYPICAL INTERIOR WALL TO BE TYPE W1. TYPICAL EXTERIOR WALL TO BE TYPE EW 1.
- ALL INTERIOR PARTITIONS TO BE CONSTRUCTED TO THE UNDERSIDE OF GWB CEILING UNLESS NOTED OTHERWISE.
- ALL FIRE SEPARATION TO BE TERMINATE AT AN EXTERIOR WALL, OR UNDERSIDE OF FLOOR SLAB
- ALL GWB TO BE MOISTURE RESISTANT. ALL WALL TILES AREA TO BE INSTALLED ON FIBER CEMENT BACKING BOARD.
- WALL TYPES ARE TO BE CONTINUOUS ABOVE DOORS U.N.O.
- WALL DIMENSIONS TO CENTRE OF STUD WALL, TO FACE OF GWB FOR WALL OPENING.
- ALL DOOR FRAMES TO BE 2" AWAY FROM FINISHED FACE OF WALL U.N.O.
- ALL EXTERIOR STEEL FABRICATION EXPOSED TO VIEW TO BE HOT-DIPPED GALVANIZED.
- PROVIDE DEFLECTION HEADER FOR ALL INTERIOR STEEL STUD WALLS, UNDER STRUCTURAL BEAMS AND DECK.
- PROVIDE 100MM HIGH CONCRETE HOUSE KEEPING PAD TO ALL FLOOR MOUNTED EQUIPMENT. (COORDINATE WITH MECHANICAL.)
- PROVIDE FIRE RETARDANT PLYWOOD (1220mmX2438mmX19mm THK. PAINTED) WITH FSR OF NOT MORE THAN 25 ON ALL SIDES OF ELECTRICAL ROOM, MECHANICAL ROOM, COMMUNICATION ROOM, AND BEHIND ALL ELECTRICAL PANELS ON PERIMETER WALLS. SEE 1/A06 AND 1/E1.0 FOR LOCATIONS OF ELECTRICAL PANELS.

EXTERIOR WALL TYPES:

EW1		TYP. METAL CLADDING - METAL PANEL CLADDING ON - HORIZONTAL Z-GIRT / 25mm GAP - Z-GIRT ON NEOPRENE GASKET SEPARATOR - 86 mm THK SPRAY-ON INSULATION (R-22) - 15.9mm EXTERIOR GRADE WATER-RESISTANT GWB - 87 mm (3 PLY) CLT WALL PANEL (CLT GRADE V2.1)
EW1a		TYP. METAL CLADDING WITH FURRING WALL INSIDE - METAL PANEL CLADDING ON - HORIZONTAL Z-GIRT / 25mm GAP - Z-GIRT ON NEOPRENE GASKET SEPARATOR - 86 mm THK SPRAY-ON INSULATION (R22) - 15.9mm WATER-RESISTANT GWB - 105 mm (3 PLY) CLT WALL PANEL
EW2		2 HR. FRR EXTERIOR WALL ASSEMBLY: - METAL PANEL CLADDING ON - HORIZONTAL Z-GIRT / 25mm GAP - Z-GIRT ON NEOPRENE GASKET SEPARATOR - 86 mm THK SPRAY-ON INSULATION (R22) - 190 CMU WALL - 87 mm (3 PLY) CLT WALL PANEL (CLT GRADE V2.1)
EW3		TYP. BELOW GRADE WALL - 12 THK CEMENT BOARD (DOWN 400mm BELOW GRADE) - GAP - DRAINAGE MAT - VERT. Z-GIRT FOR CEMENT BOARD - 50 MM THK RIGID INSULATION - SBS TORCH-ON WATERPROOFING MEMBRANE - CONCRETE WALL BELOW GRADE USE CEMENT BOARD

INTERIOR WALL TYPE SCHEDULE

W1		TYP. 92mm STUD WALL - 15.9mm THK GWB - 92 STL STUD @ 400 O.C. FILLED WITH ACOUSTIC BATT INSULATION - 15.9mm THK GWB
W2		TYP. PLUMBING WALL - 15.9mm THK GWB - 152mm STL STUD @ 400 O.C. FILLED WITH ACOUSTIC BATT INSULATION - 15.9mm THK GWB
W3		TYP. DOUBLE STUD WALL - 15.9mm THK GWB - 92mm STL STUD @ 400 O.C - 60 GAP - 92 mm STL STUD @ 400 O.C. - 15.9mm THK GWB
W4		TYPICAL FURRING WALL - 15.9mm THK GWB - 92mm STL STUD @ 400 O.C

ROOF TYPE SCHEDULE

R1		TYP. FLAT ROOF - 2 PLY SBS ROOFING MEMBRANE - 1 LAYER PROTECTION BOARD - 141MM RIGID INSULATION (R28) - SELF-ADHESIVE VAPOUR RETARDANT MEMBRANE - 15.9MM EXTERIOR GRADE GYPSUM ROOF BOARD - CLT PANEL ON ROOF STRUCTURE SLOPE TO DRAIN
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FLOOR TYPE SCHEDULE

F1		TYP. RAFT SLAB / SLAB ON GRADE - REINFORCED CONCRETE SLAB WITH SLOPED TO DRAIN - 10 MIL POLY VAPOUR BARRIER - COMPACTED CRUSHED GRAVEL AS PER GEOTECHNICAL REQUIREMENT
F2		MEZZANINE FLOOR CONSTRUCTION: - 62mm CONCRETE TOPPING ON - 38mm DEEP COMPOSITE STEEL DECK

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5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA

NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY

Consultant Signature Only

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PAUL PREETIPAL

Drawing title/Titre du dessin

PROJECT DATA

Project No./No. du projet R.077596.001	Sheet/ Feuille WA02 OF 22	Revision no./ La Révision no. 3
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2	ISSUED FOR TENDER	2019.03.08
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Client/client		

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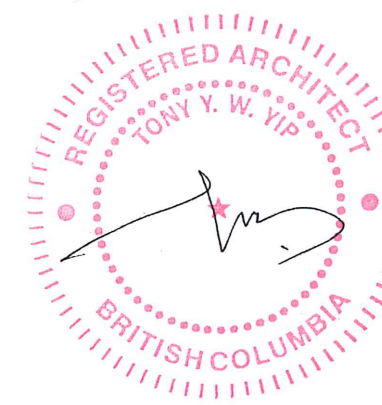
PWGSC Project Manager/Administrateur de Projets TPSGC
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Regional Manager, Architectural and Engineering Services
Gestionnaire Régionale, Services d'architectural et de génie, TPSGC
PAUL PREETIPAL

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EXISTING SITE PLAN

Project No./No. du projet R.077596.001	Sheet/ Feuille WA03 OF 22	Revision no./ La Révision no. 2
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Revision		

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ATP INTEGRATION FACILITY**

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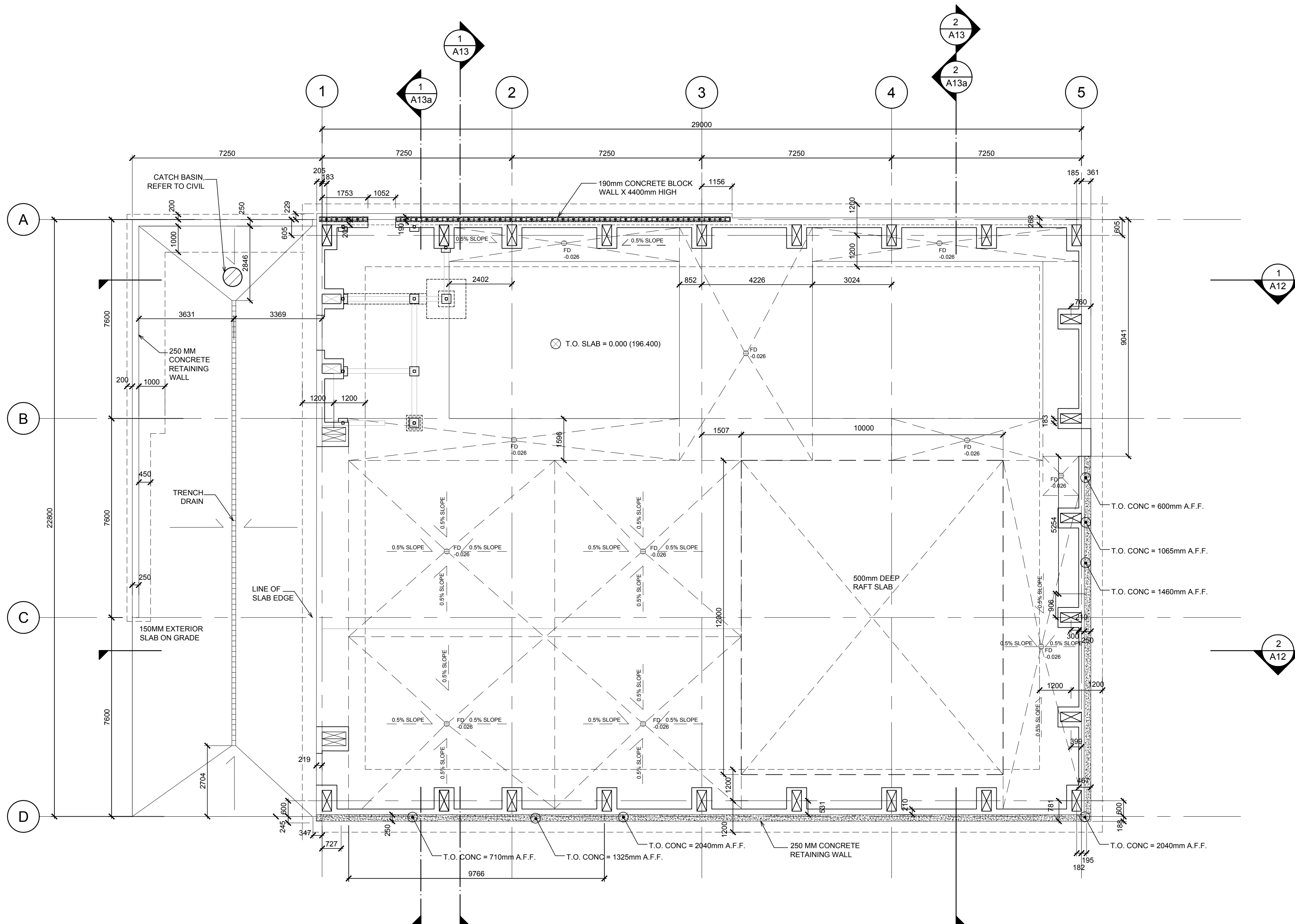
NEW SITE PLAN

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projet
R.077596.001

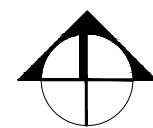
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Revision no./
La Révision
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OF 22



1
A05
SLAB EDGE PLAN
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PROJECT
NORTH

Project title/Titre du projet
5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA

NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY

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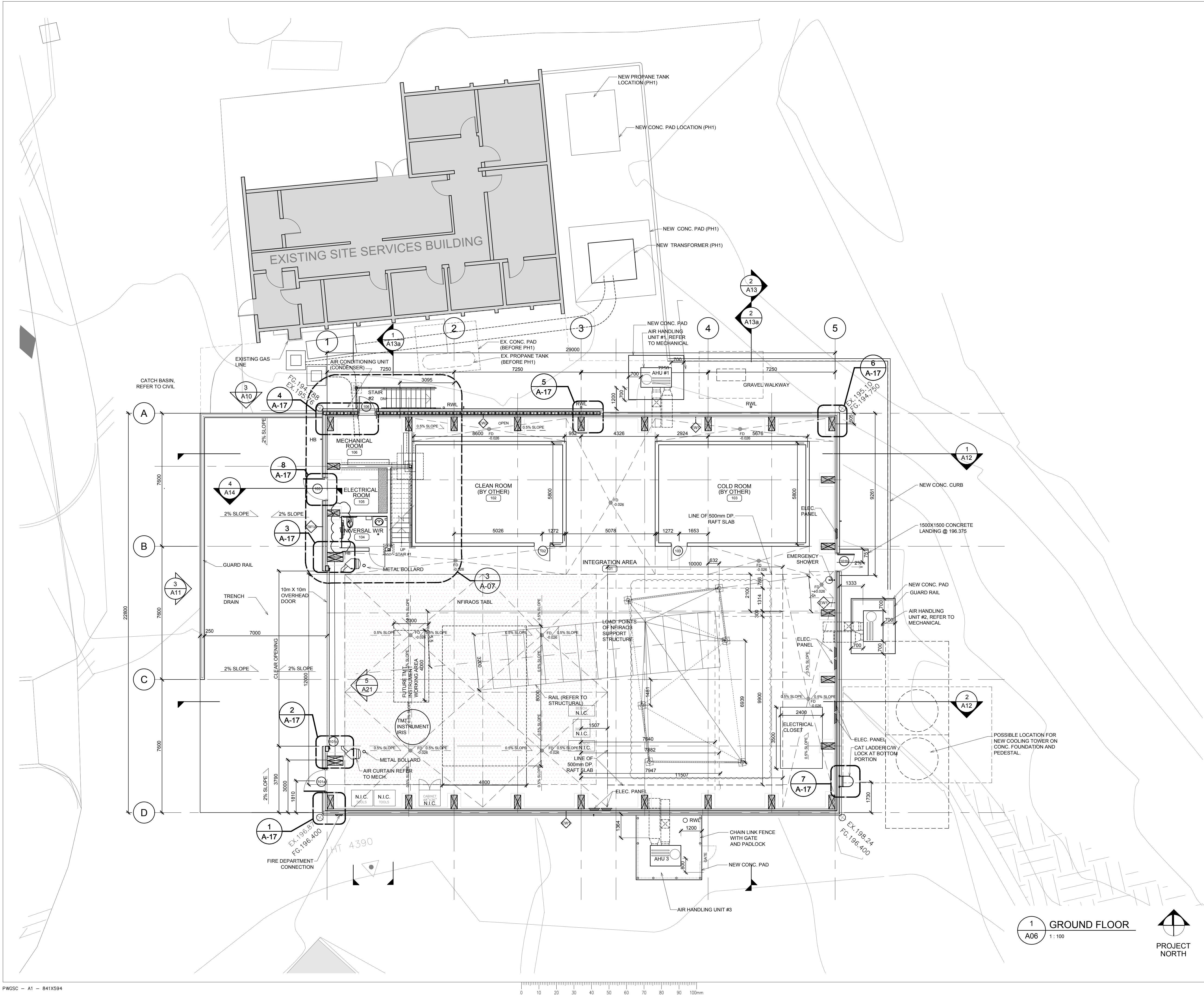
Drawing title/Titre du dessin

GROUND FLOOR SLAB EDGE PLAN

Project No./No. du
projet
R.077596.001

Sheet/Feuille
WA05
OF 22

Revision no./
La Révision
no.
3



Revision/Revision	Description/Description	Date/Date
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ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY

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PAUL PRETIPAL

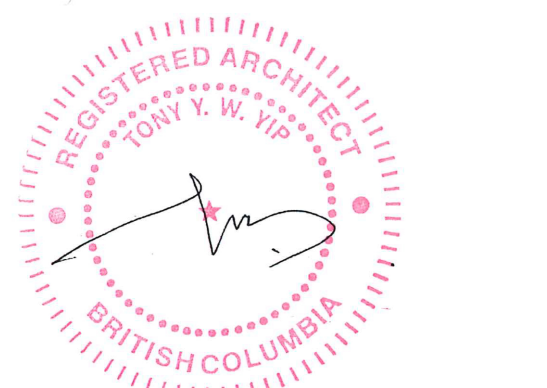
Drawing title/Titre du dessin

GROUND FLOOR PLAN

Project No./No. du
projet
R.077596.001

Sheet/Feuille
WA06
OF 21

Revision no./
La Révision
no.
3



Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
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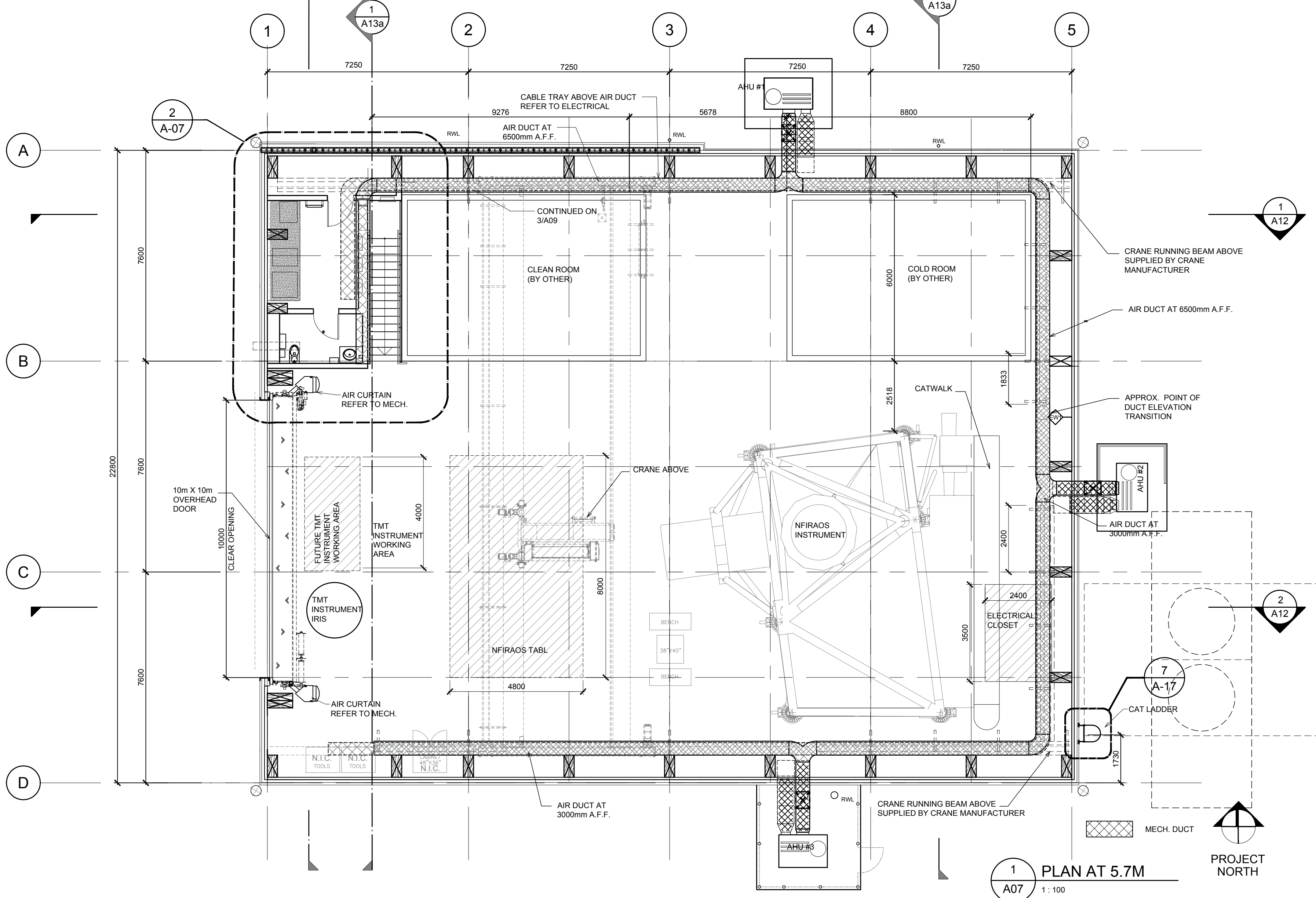
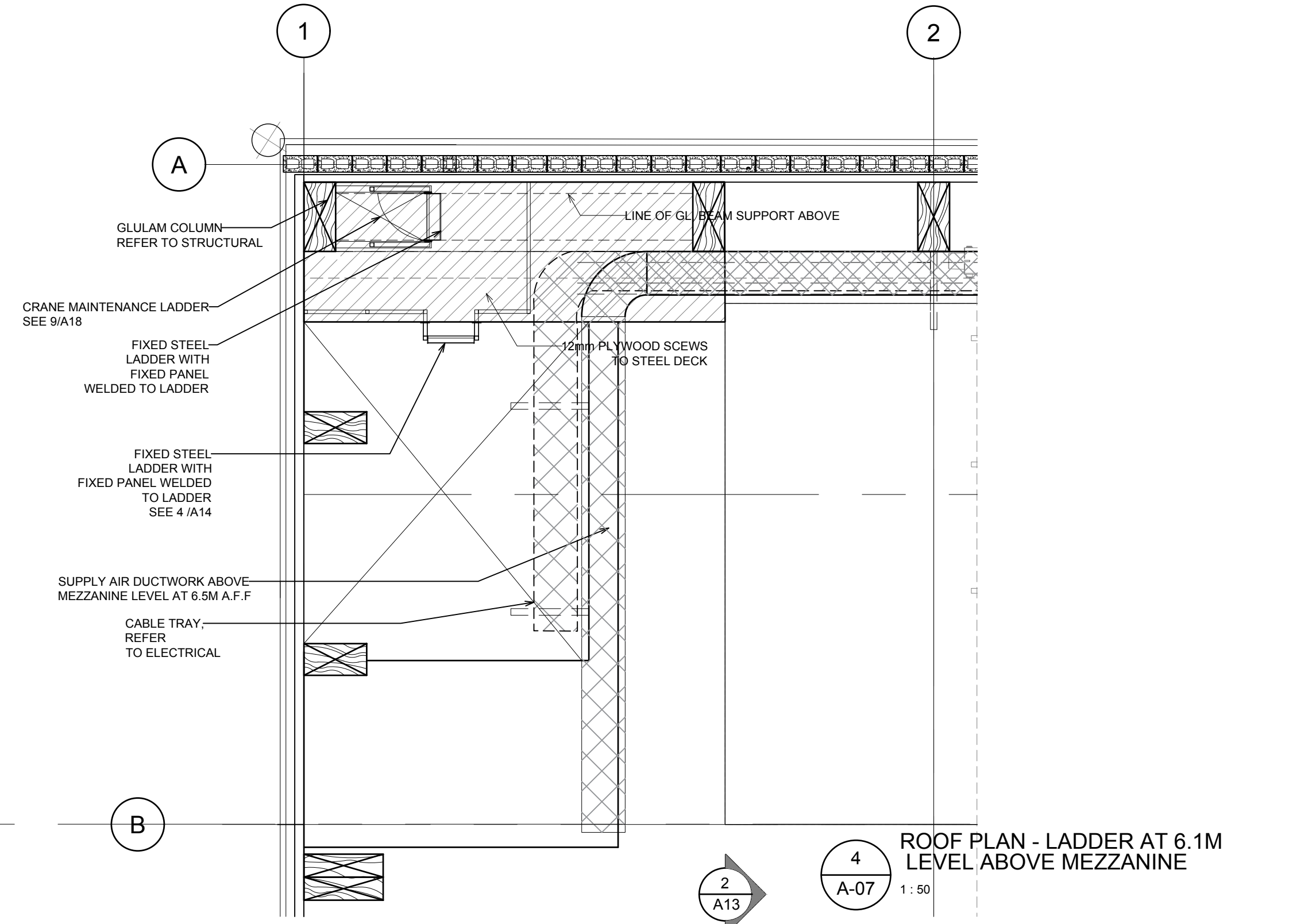
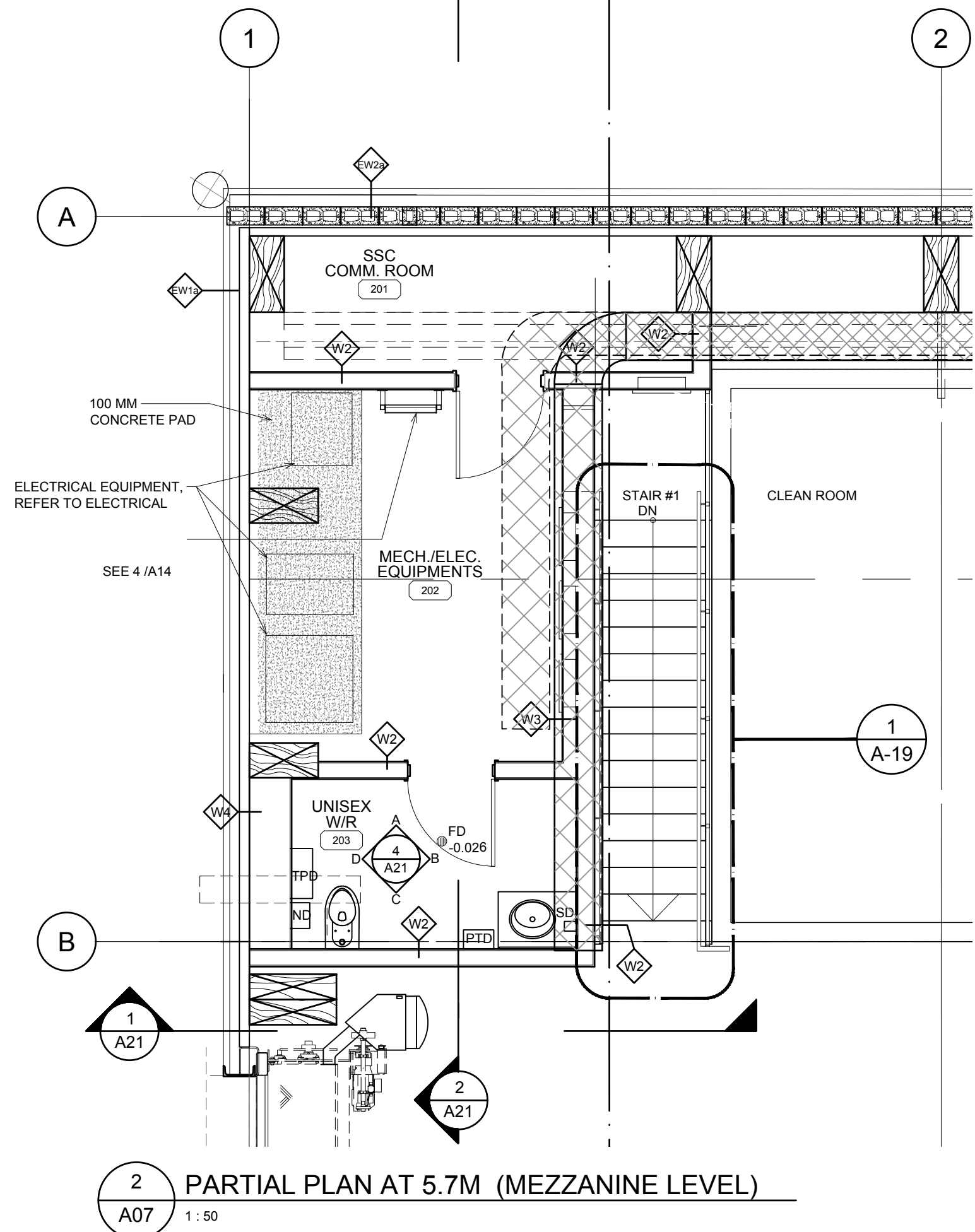
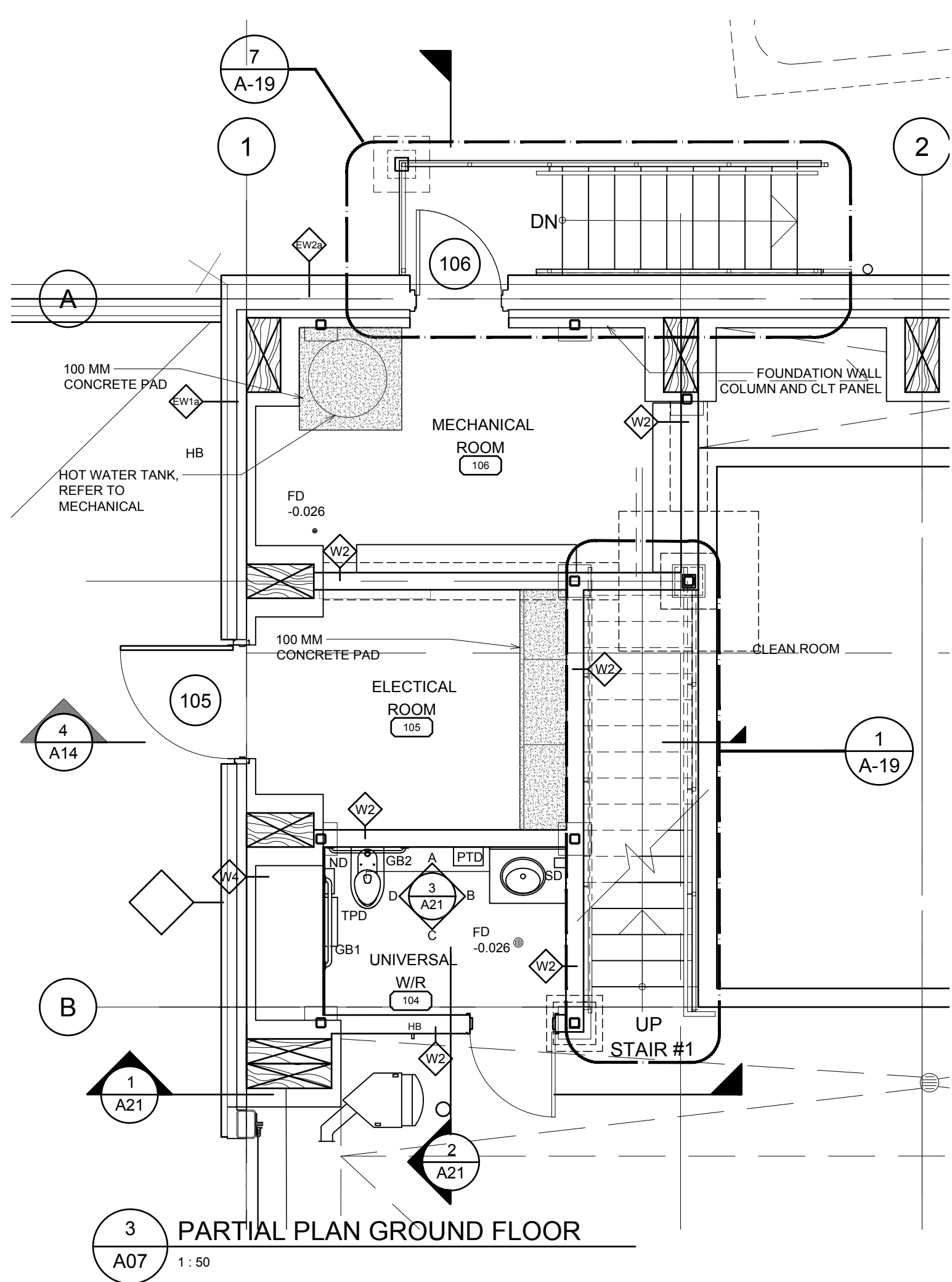
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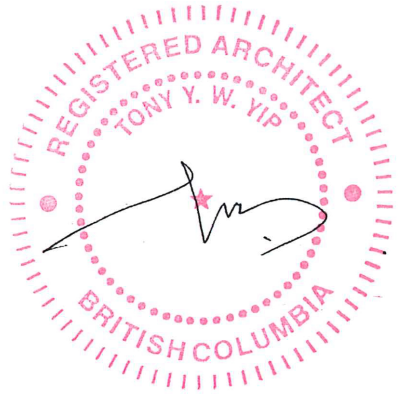
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PLAN AT 5.7M

Project No./No. du projet R.077596.001	Sheet/Feuille WA07 OF 22	Revision no./ La Révision no. 2
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2 ISSUED FOR TENDER 2019.03.08

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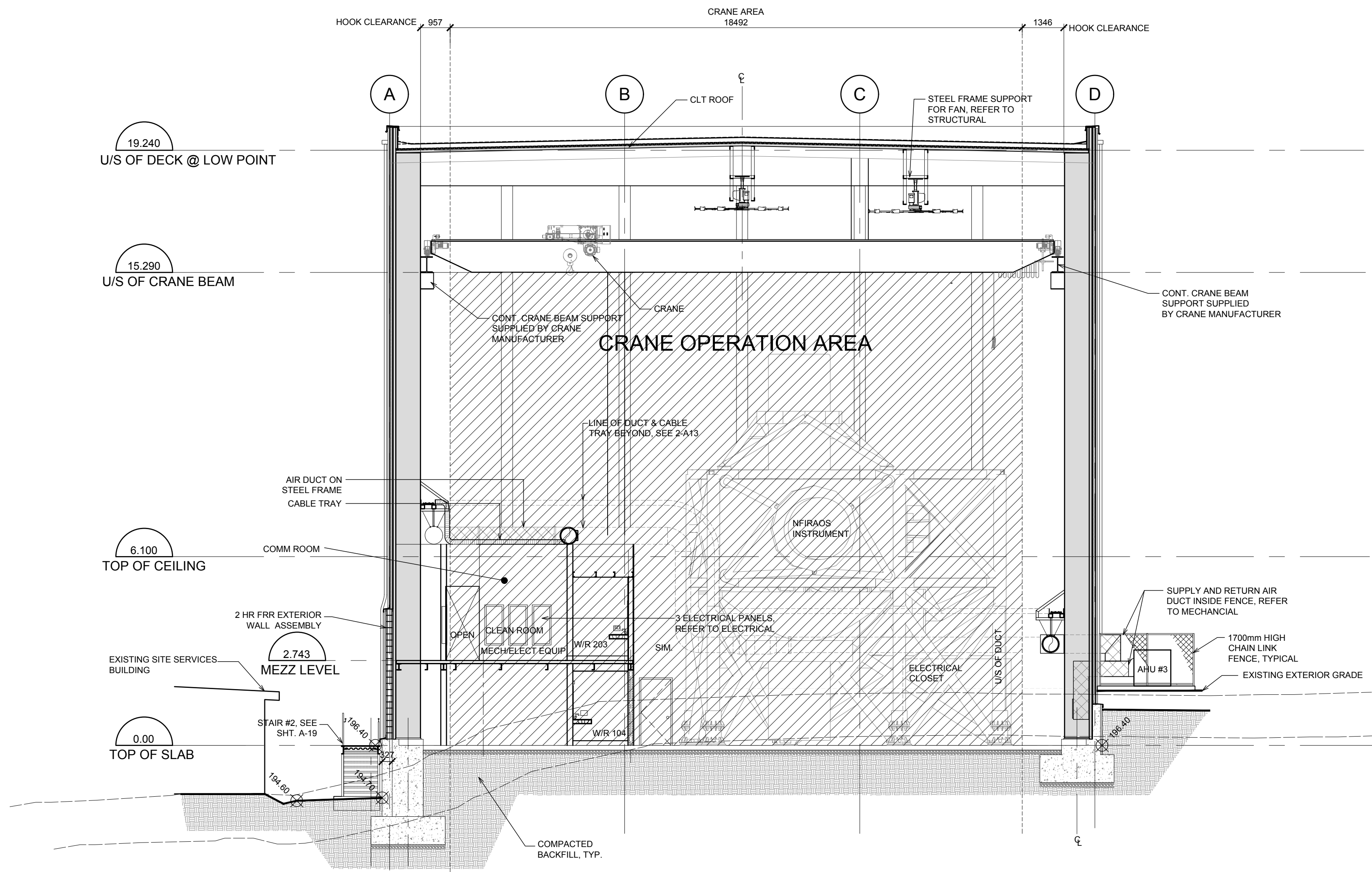
CRANE TOLERANCES,
EAST SECTION

Project No./No. du projet
R.077596.001

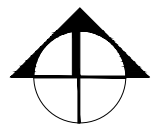
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WA07b

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La Révision
no.
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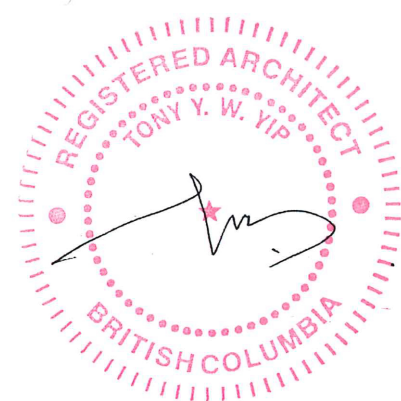
OF 22



1
A07b
CRANE TOLERANCES
EAST SECTION
1:100



PROJECT
NORTH



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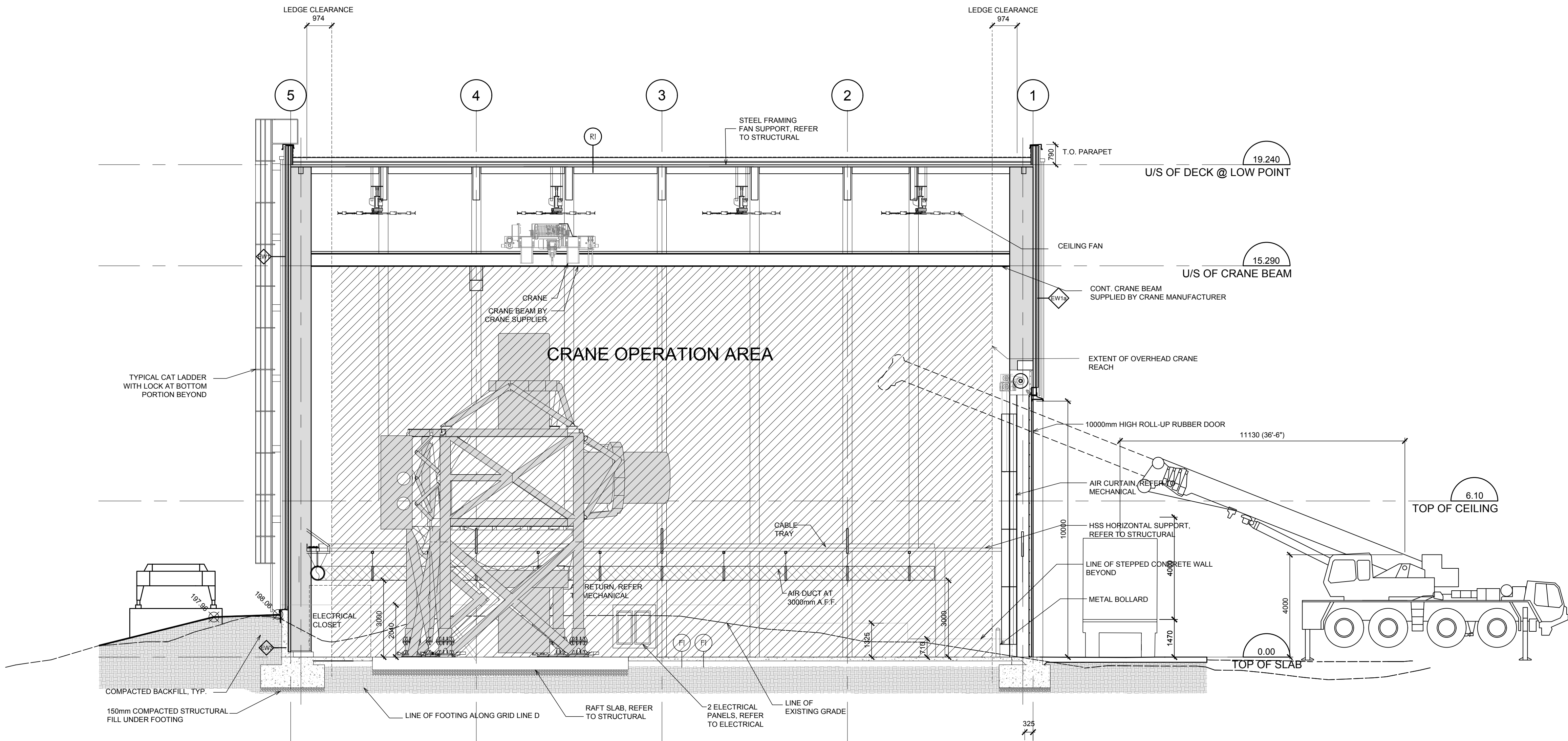
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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

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**CRANE TOLERANCES,
BUILDING SECTIONS**

SOUTH SECTIONS

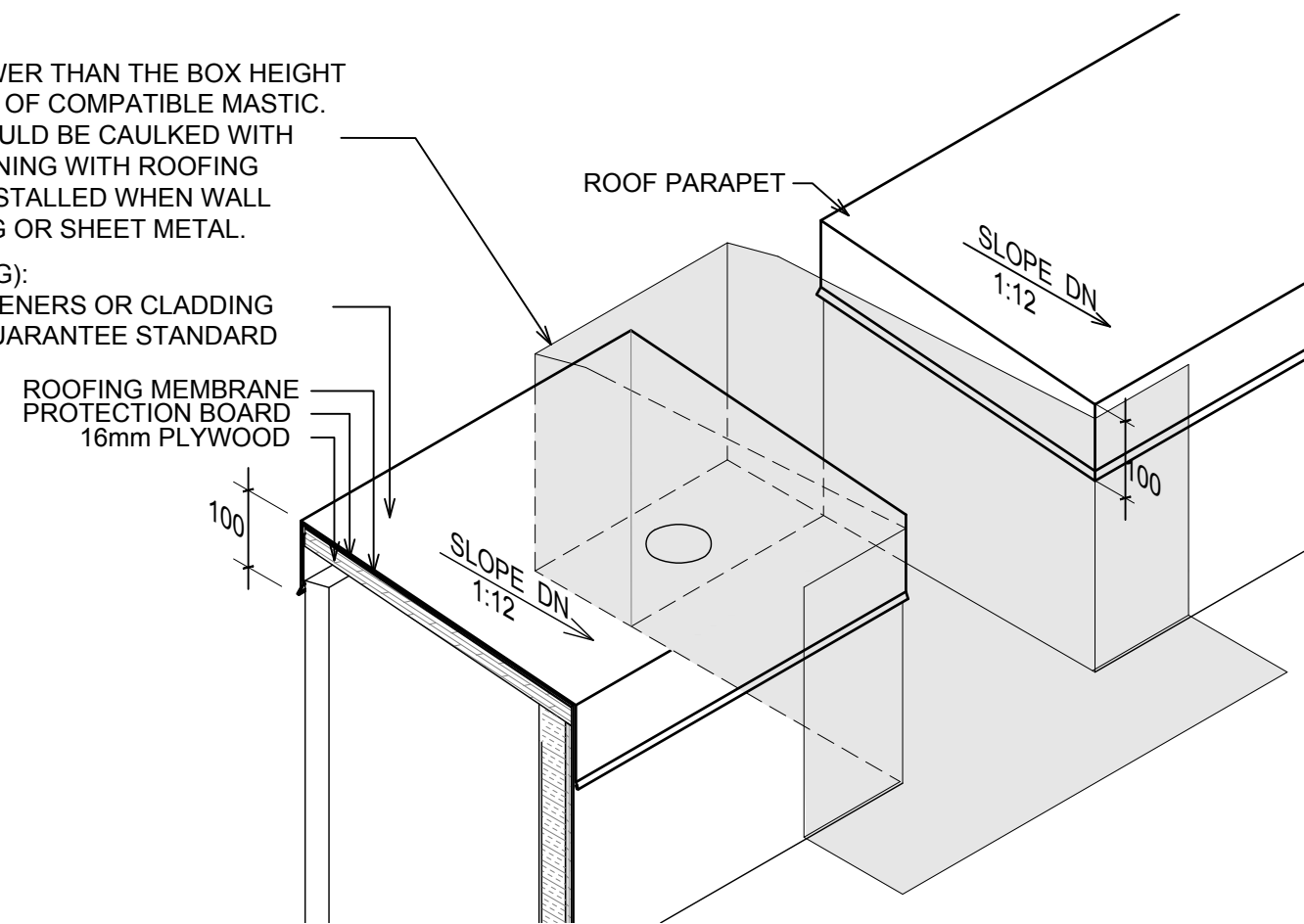
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R.077596.001	WA07c	3
	OF 22	



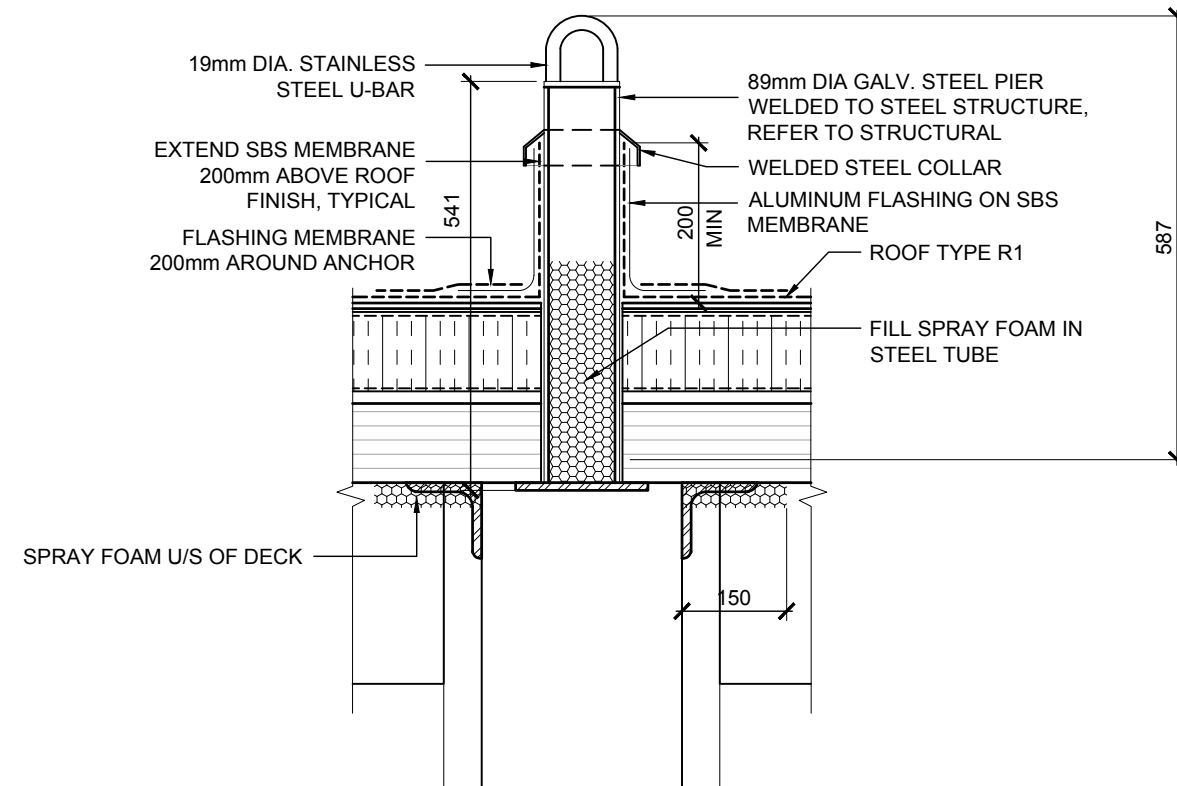
1 CRANE TOLERANCES SOUTH SECTION
A-07c 1:100

METAL SCUPPER WITH HOPPER (TYP):
THE OUTSIDE FACE OF SCUPPER TO BE 37.7MM (1½") LOWER THAN THE BOX HEIGHT
WITH A 12.7MM (½") DRIP EDGE. INSTALLED IN A THIN BED OF COMPATIBLE MASTIC.
INTERFACE BETWEEN OUTSIDE WALL AND SCUPPER SHOULD BE CAULKED WITH
APPROPRIATE SEALANT. WATERPROOF THE ENTIRE OPENING WITH ROOFING
MEMBRANE PRIOR TO INSTALLING THE SCUPPER BOX. INSTALLED WHEN WALL
FINISH IS COMPLETE PRIOR TO COMPLETION OF ROOFING OR SHEET METAL.

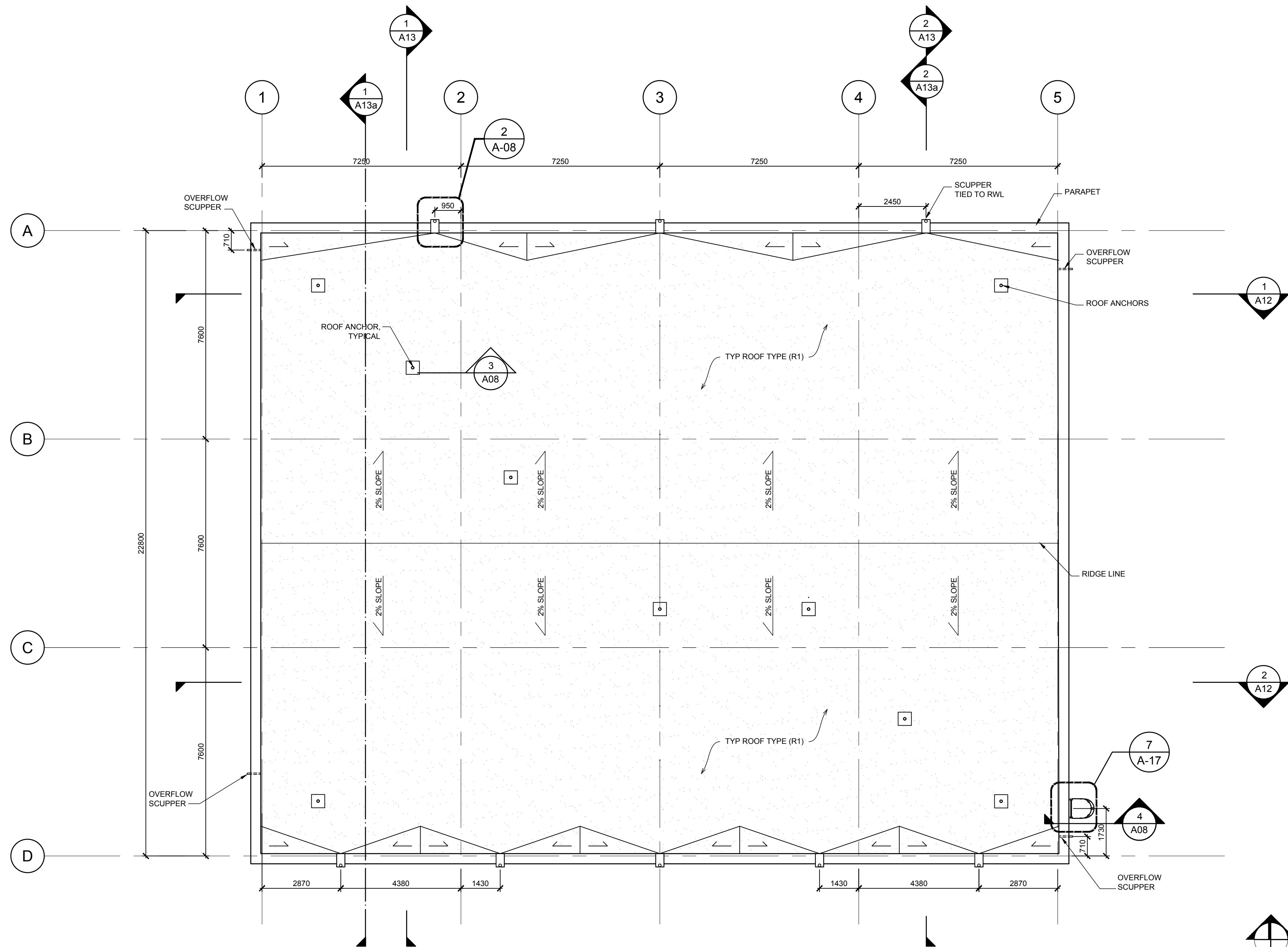
METAL FLASHING (COLOR TO MATCH EXTERIOR CLADDING):
FASTEN WITH CONTINUOUS CONCEALED CLIP-TYPE FASTENERS OR CLADDING
SCREWS EVENLY SPACED BETWEEN SEAMS. SEE RGC GUARANTEE STANDARD
A6.10 FOR REQUIREMENTS. FLASHING 8 AND 9 MAY
BE ONE PIECE.



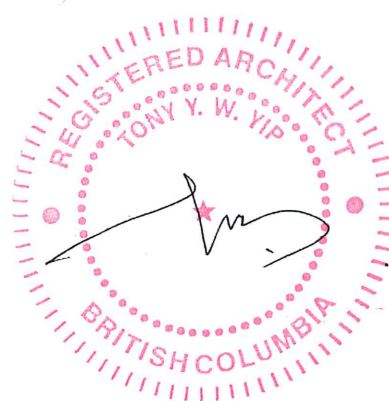
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A08
1:10
TYPICAL SCUPPER DRAIN
INSTALLATION DETAIL



3
A08
1:10
TYPICAL ROOF
ANCHOR DETAIL



1
A08
1:100
ROOF PLAN



2	ISSUED FOR TENDER	2019.03.08
1	ISSUED FOR 100% CD REVIEW	2018.03.14
Revision/	Description/Description	Date/Date
Revision		

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

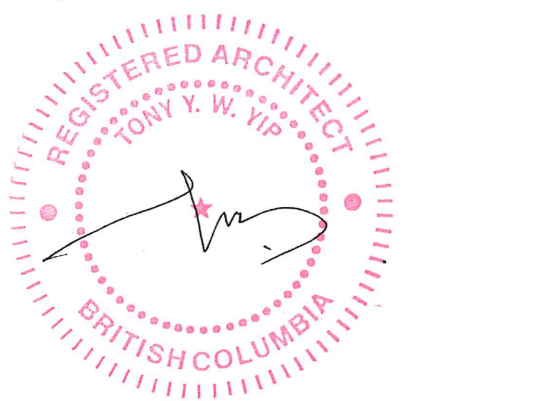
Drawn by/Dessine par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PRETIPAL

Drawing title/Titre du dessin

Project No./No. du projet R.077596.001	Sheet/ Feuille WA08 OF 22	Revision no./ La Révision no. 2
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Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

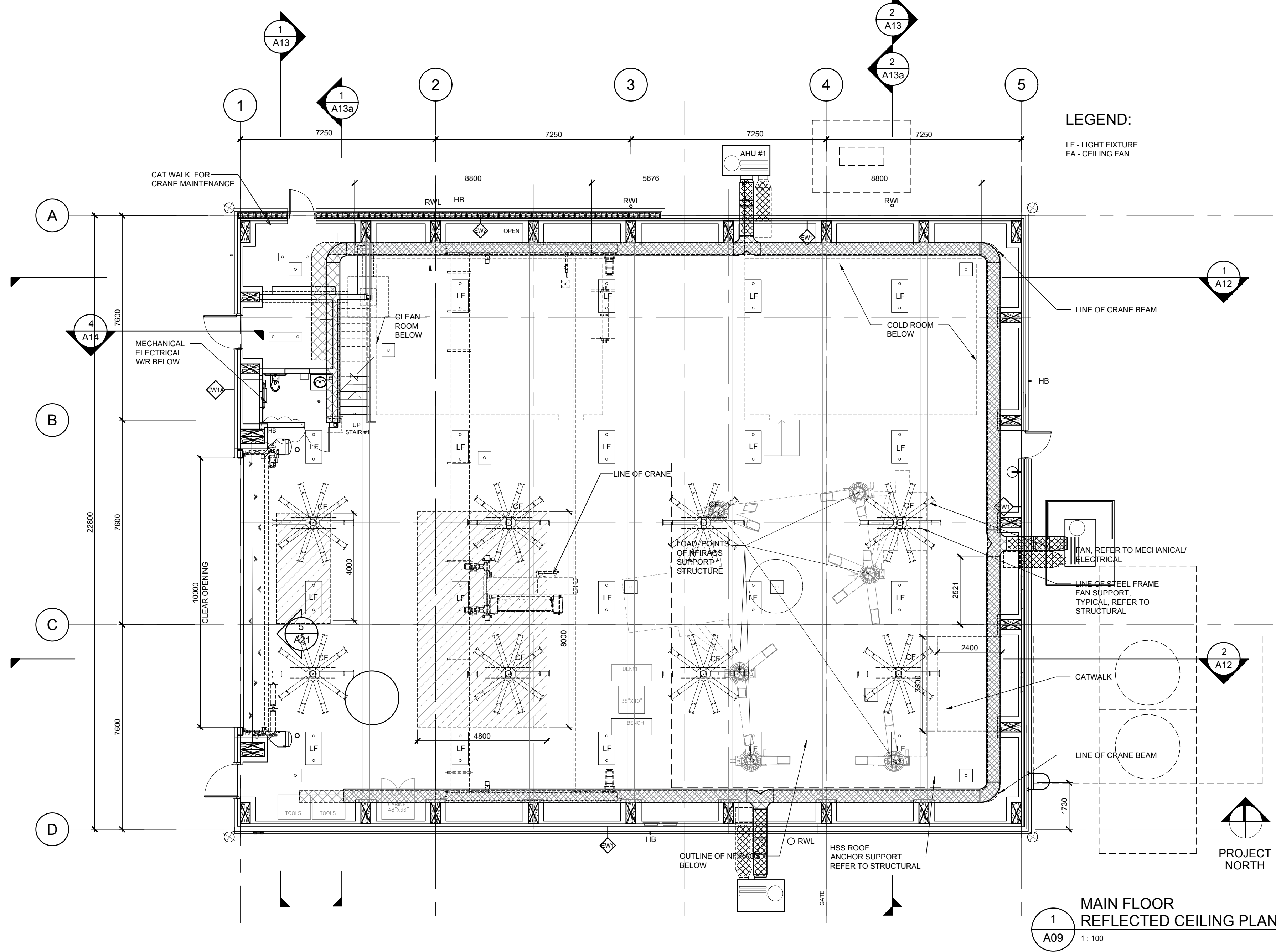
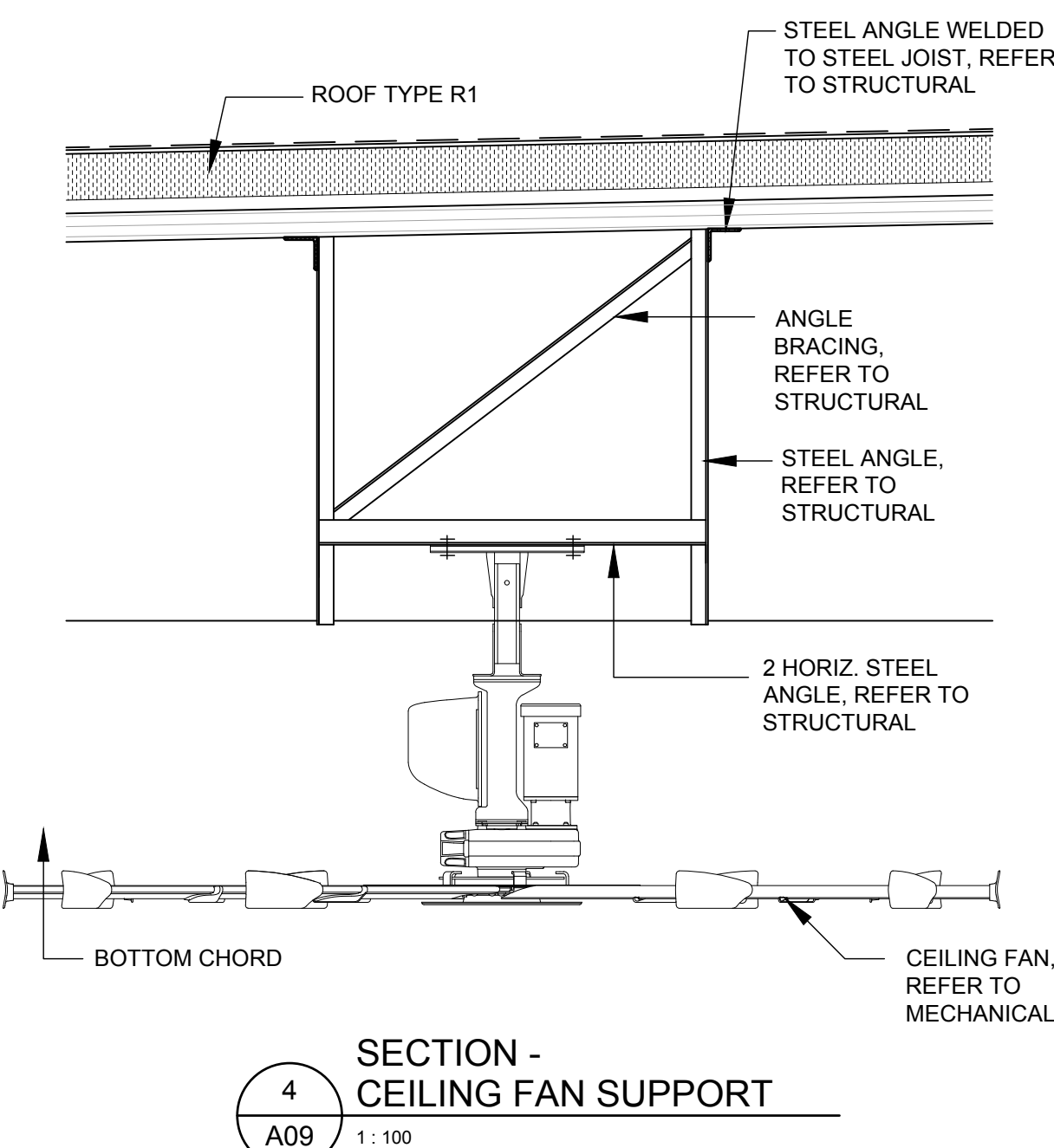
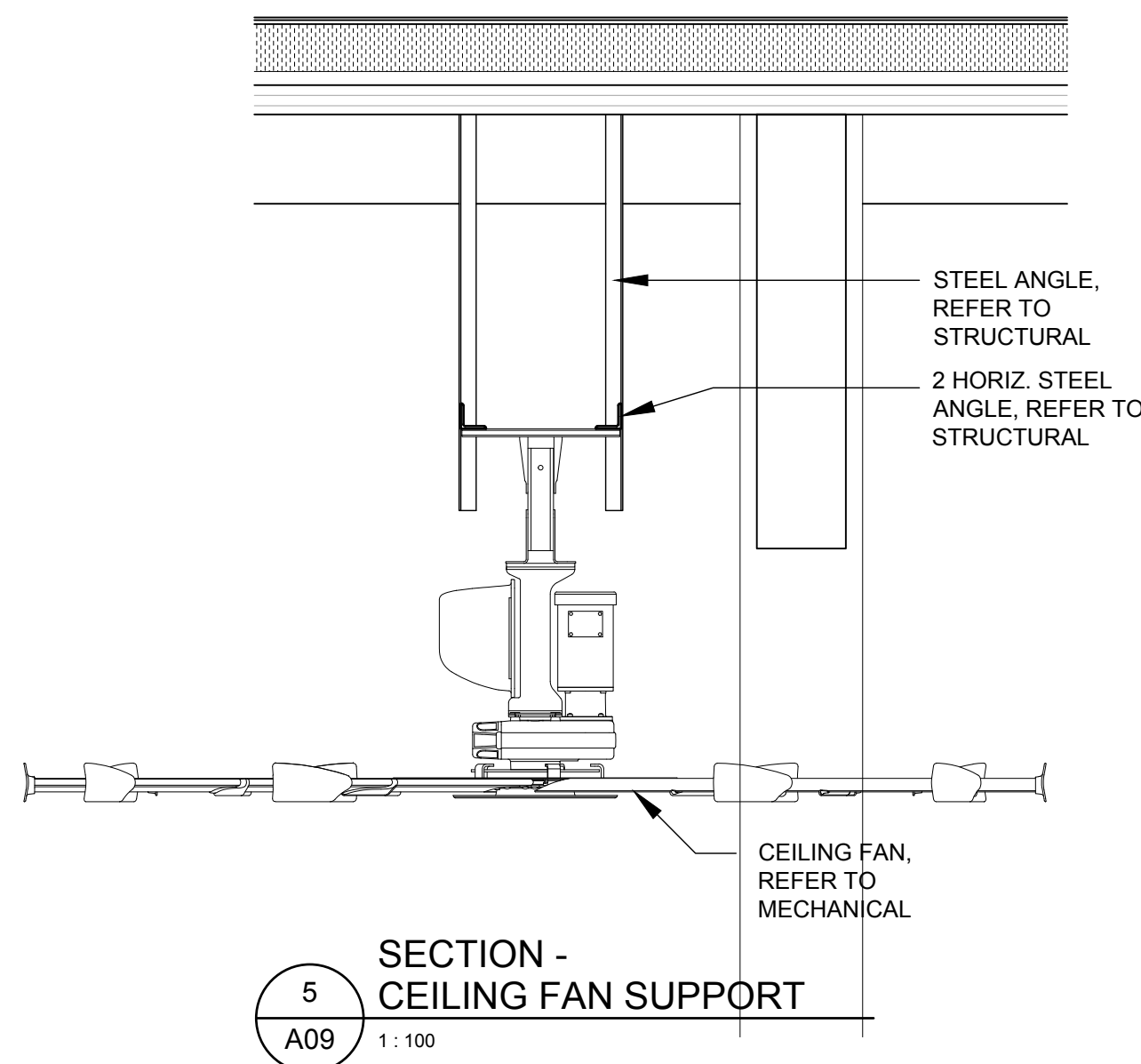
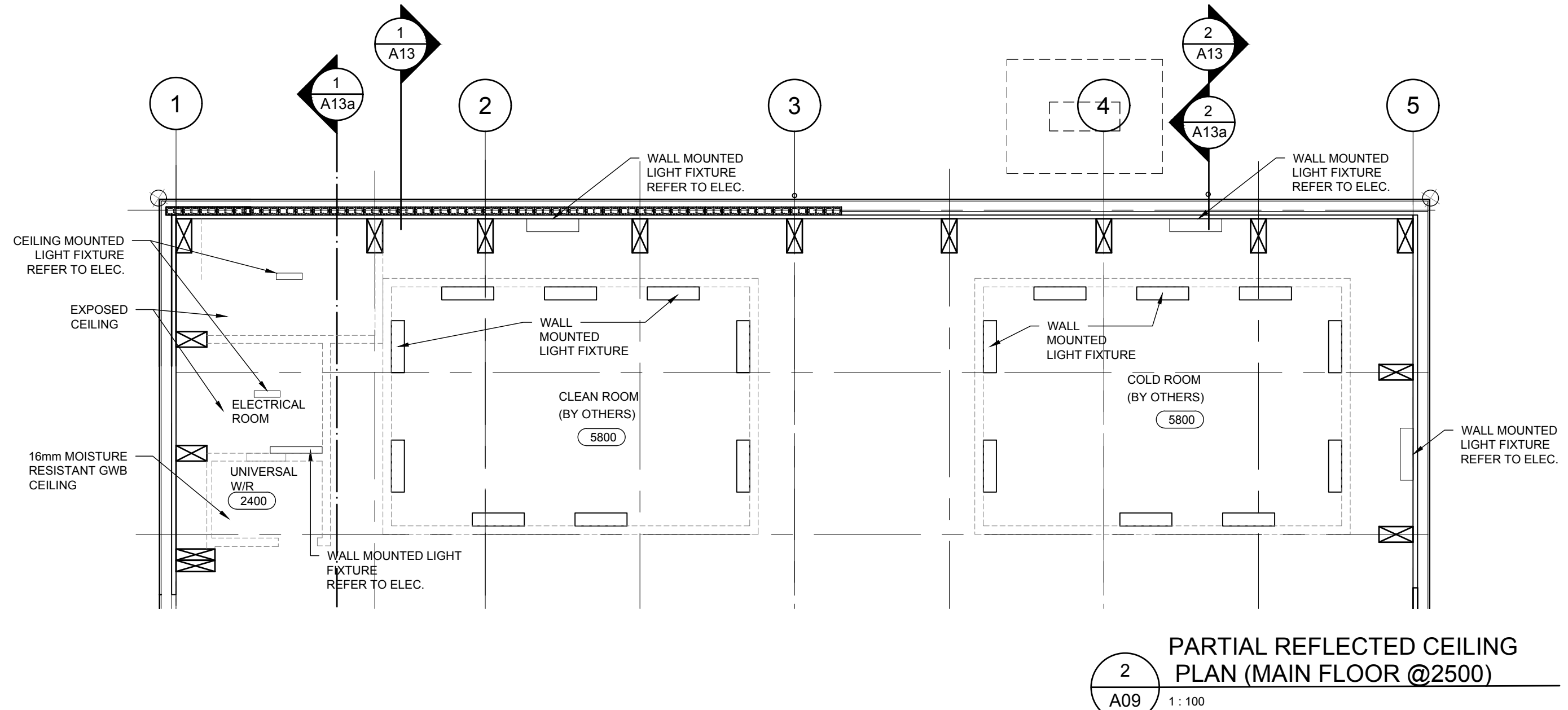
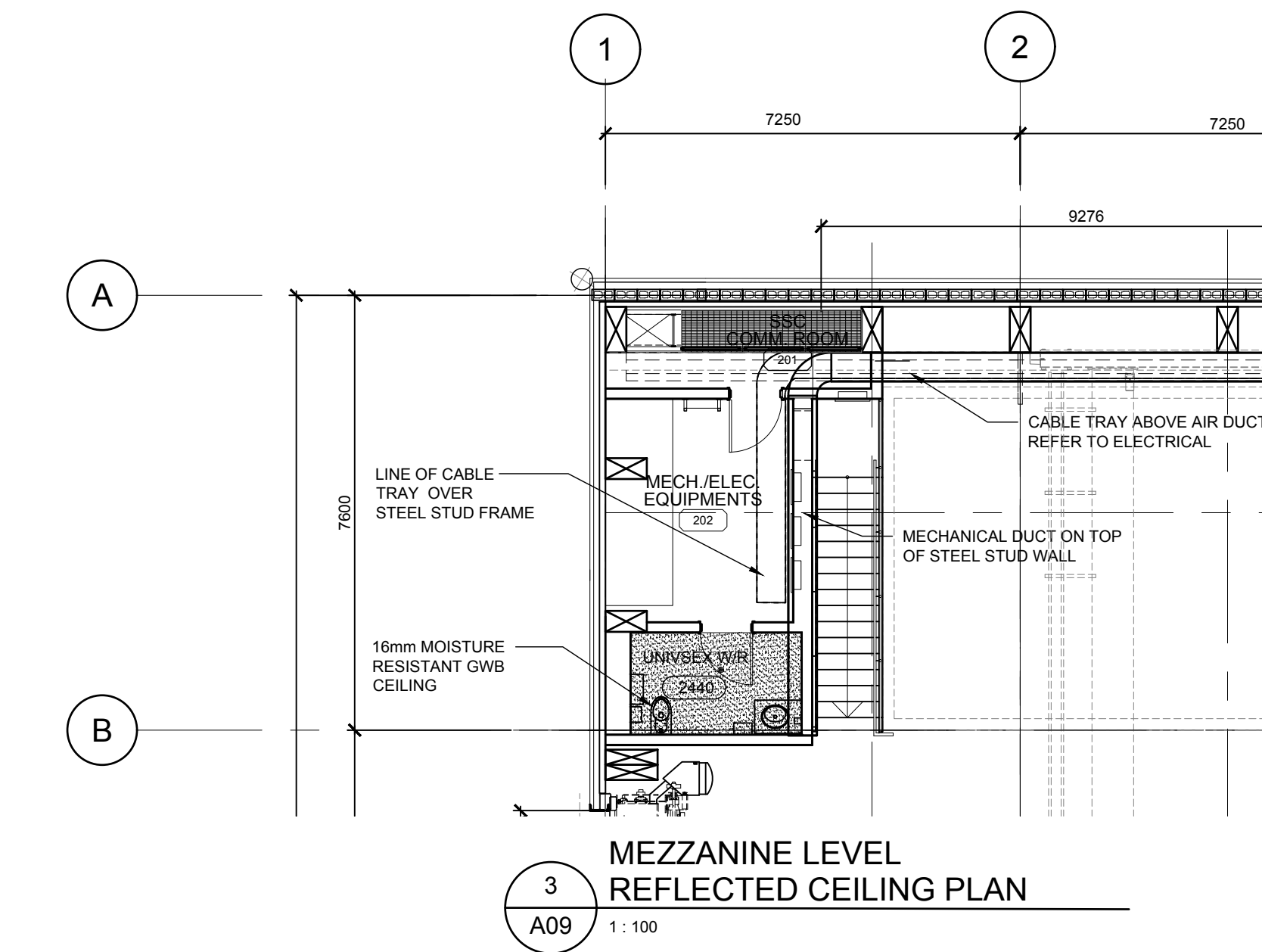
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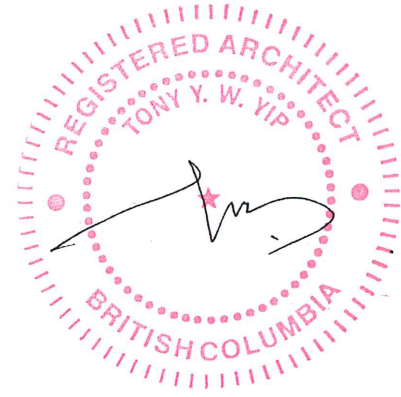
Project No./No. du
projet
R.077596.001

Sheet/Feuille
WA09

Revision no./
La Révision
no.
3

OF 22





Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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Designed by/Concept par
T.Y.

Drawn by/Dessine par
S.K.

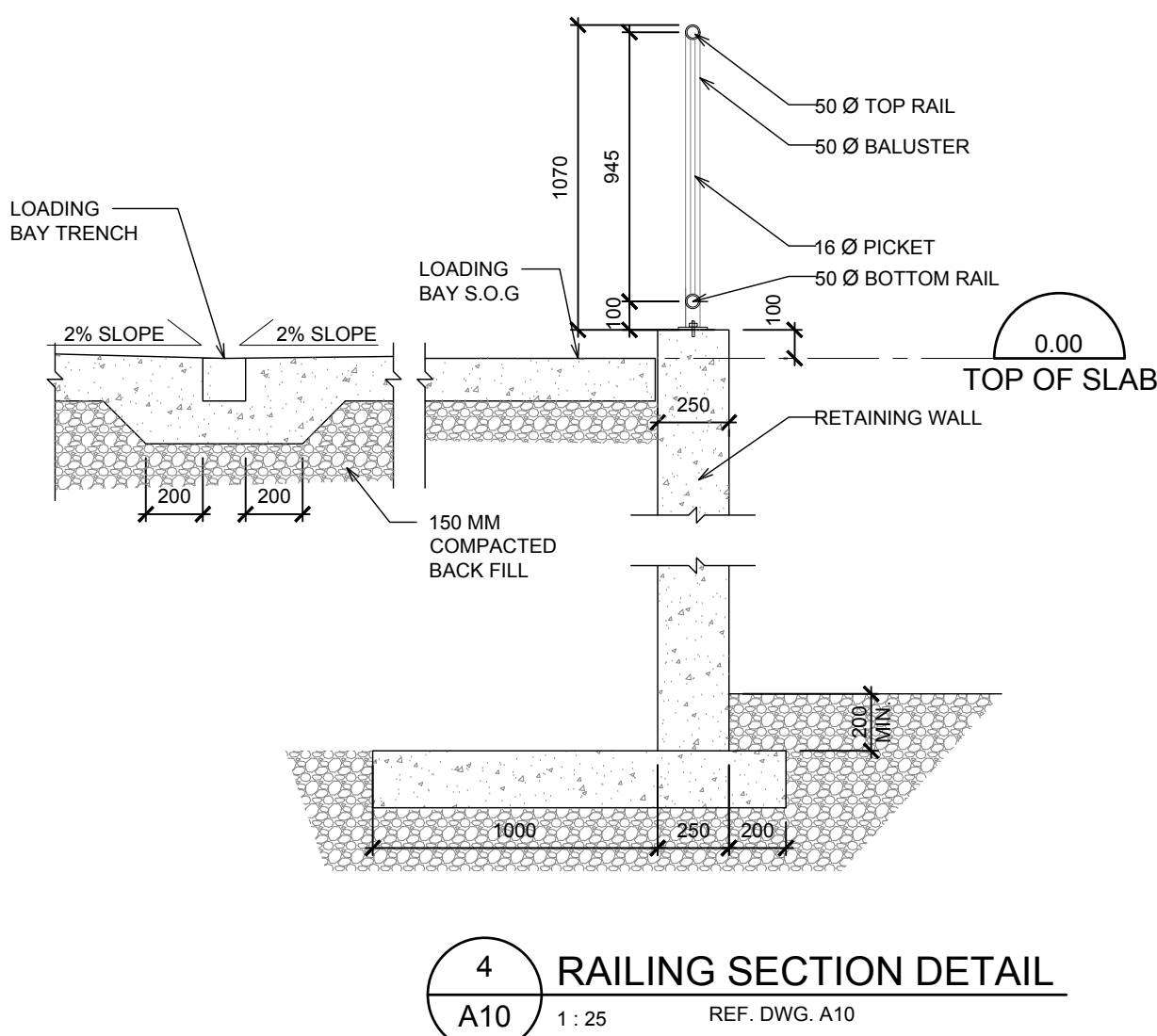
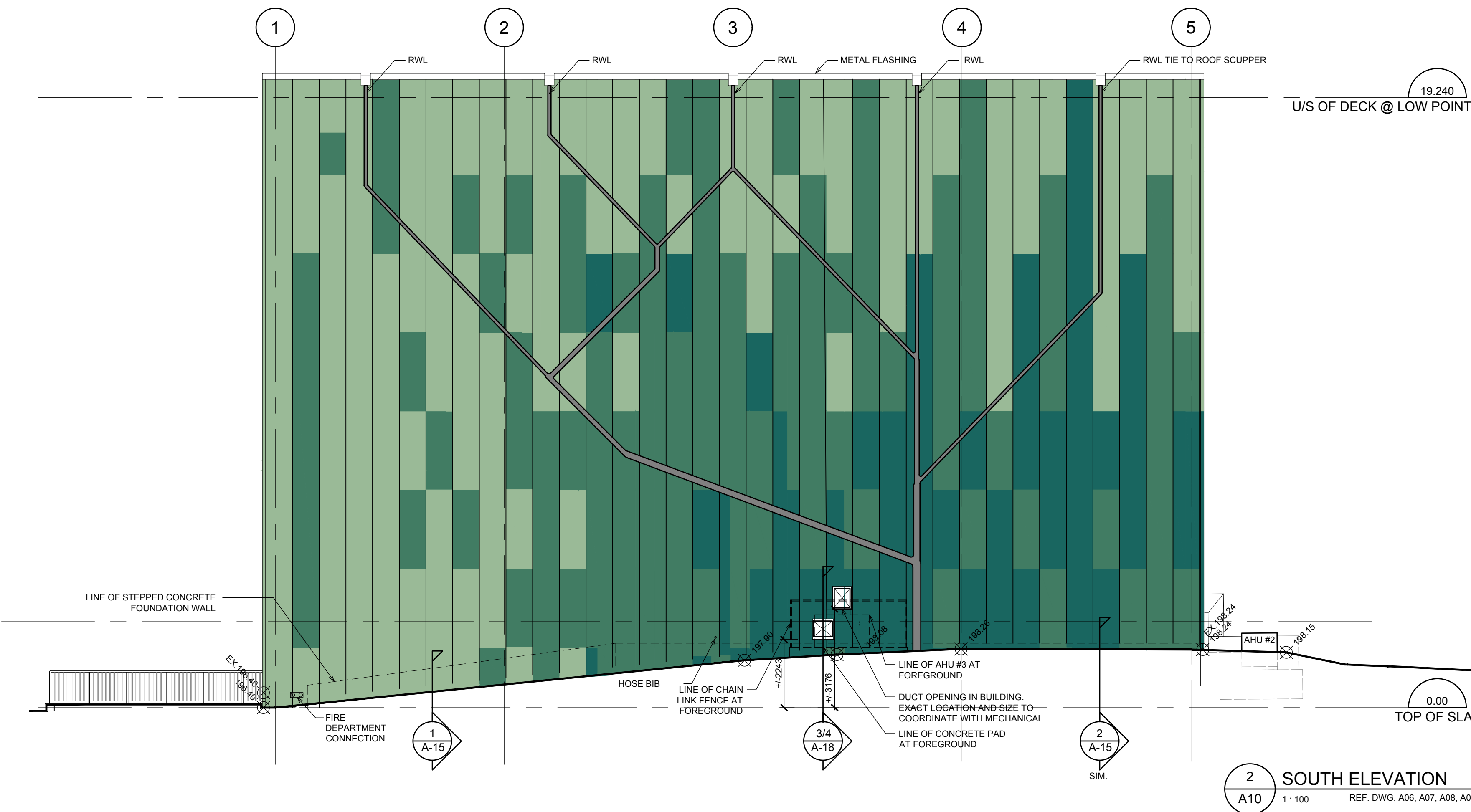
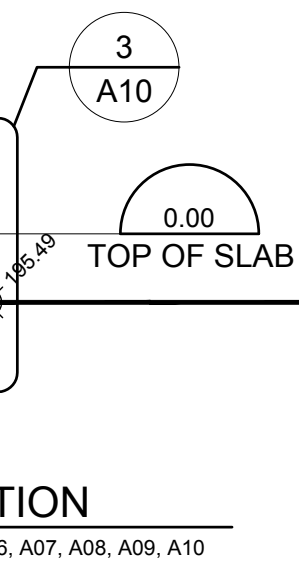
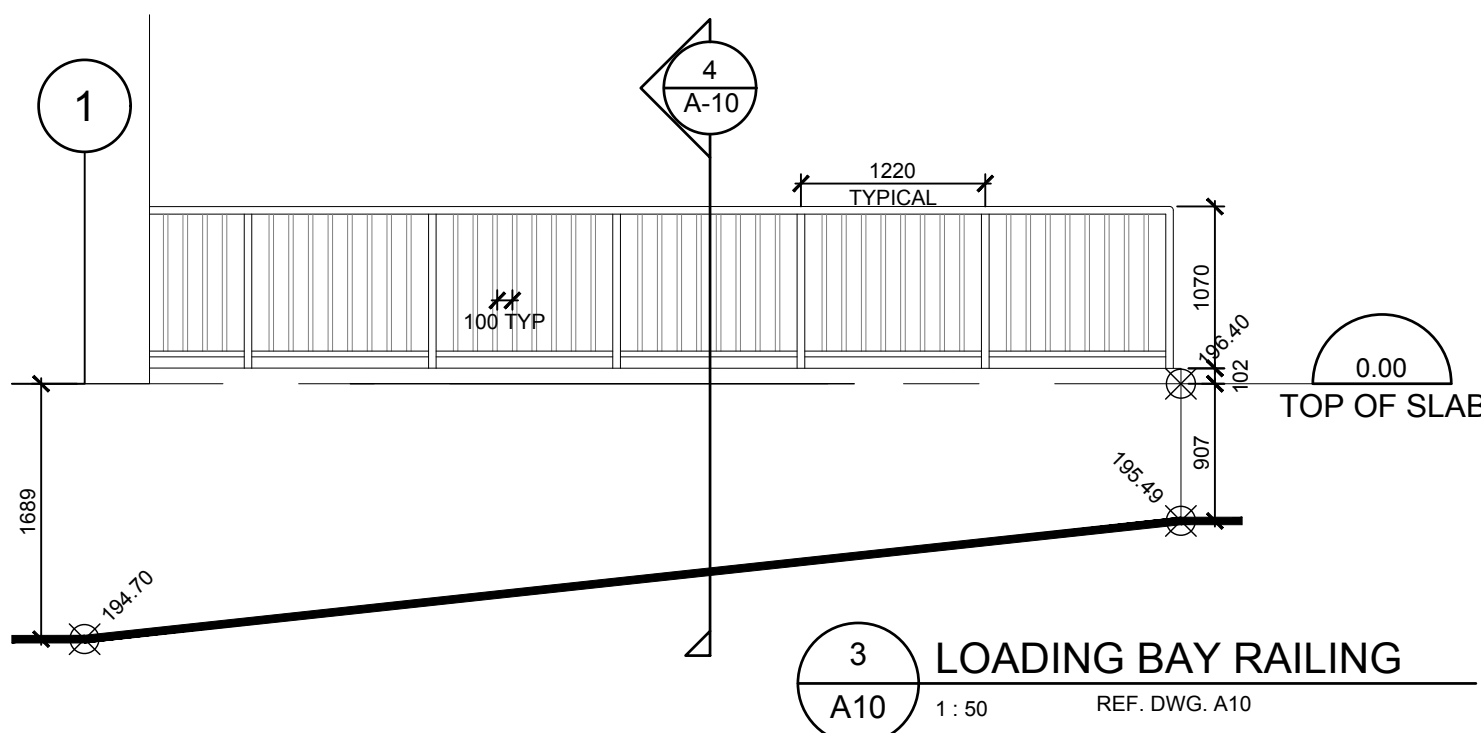
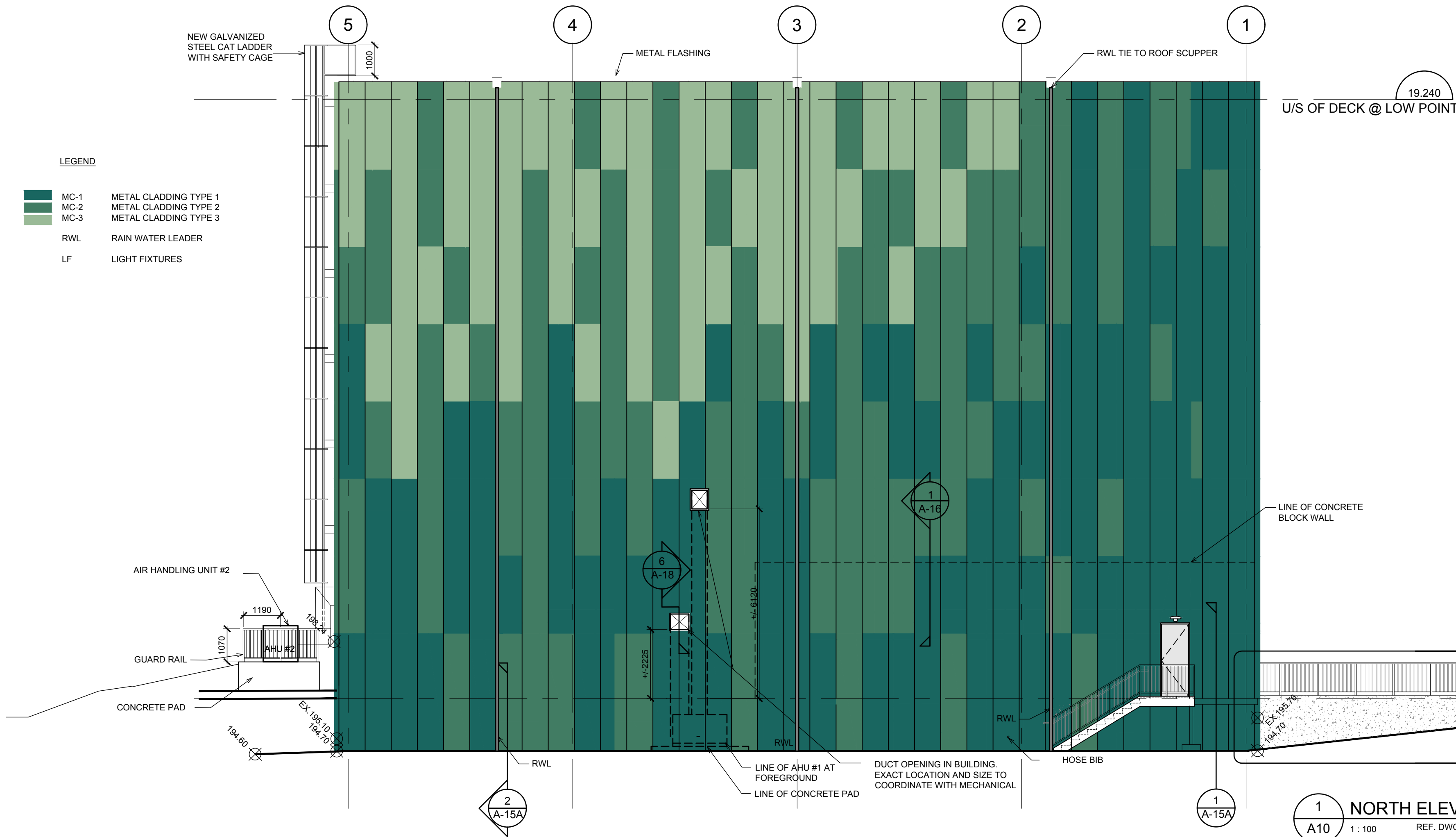
PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

**NORTH & SOUTH
BUILDING ELEVATIONS**

Project No./No. du projet R.077596.001	Sheet/Feuille WA10 OF 22	Revision no./ La Révision no. 3
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Client/client

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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T.Y.

Drawn by/Dessine par
S.K.

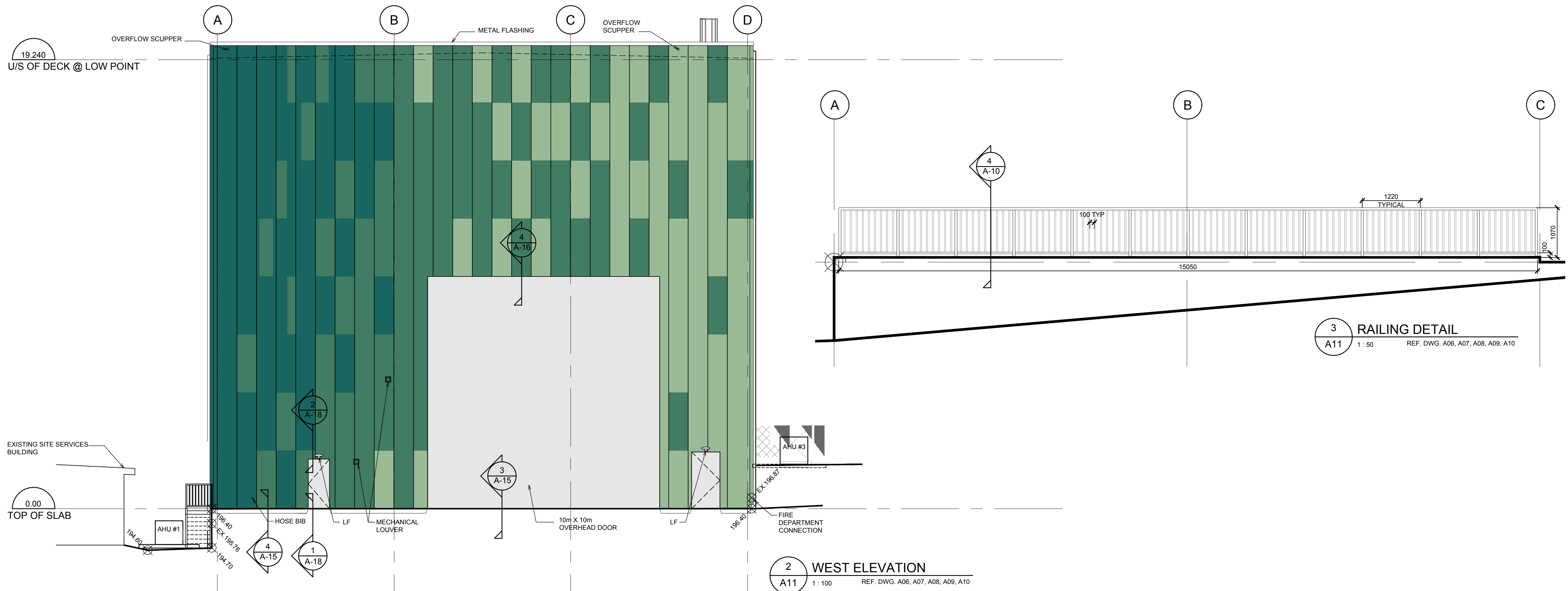
TPWGC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

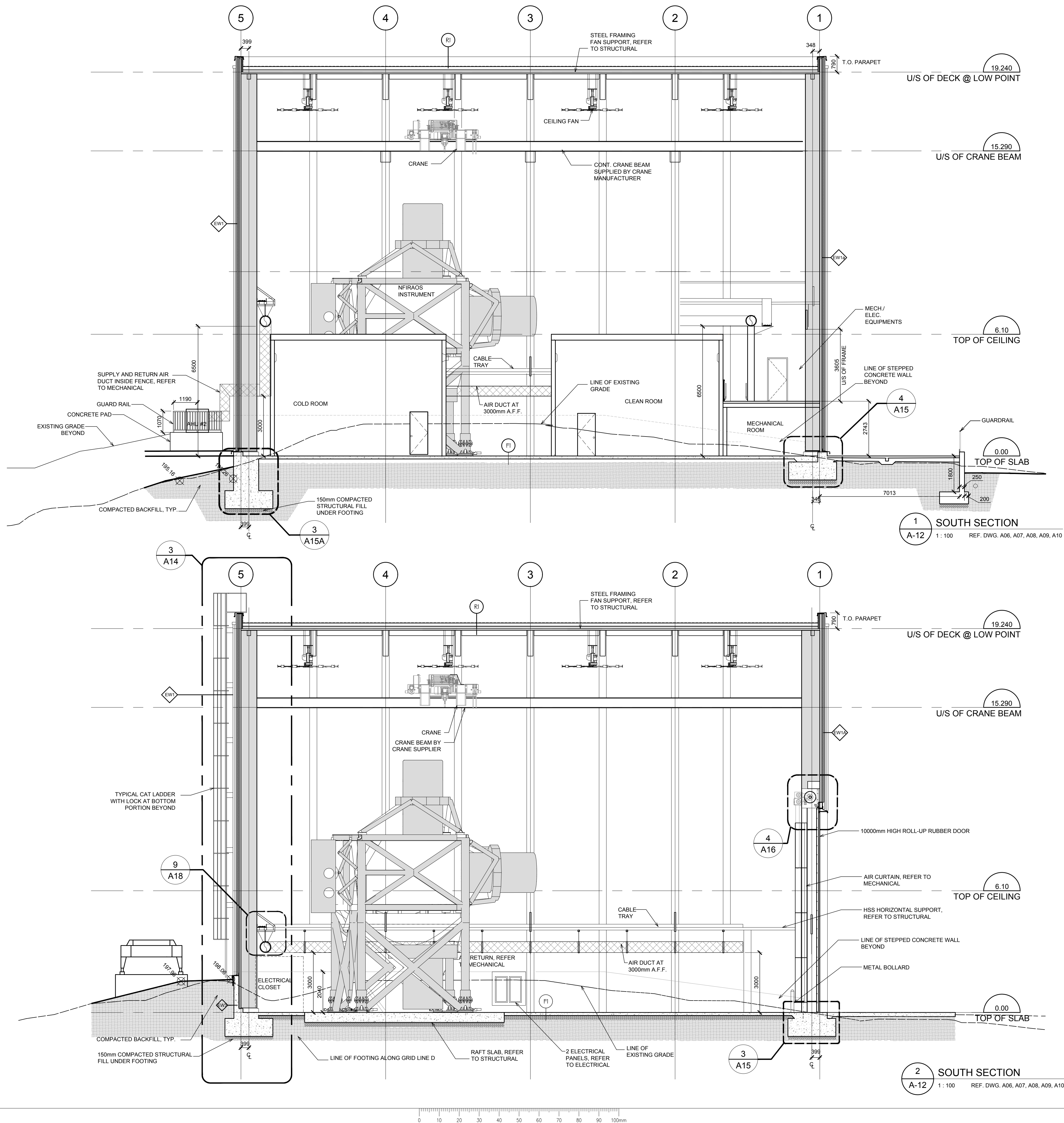
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

EAST & WEST BUILDING ELEVATIONS

Project No./No. du projet R.077596.001	Sheet/Feuille WA11 OF 22	Revision no. La Révision no. 3
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Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

**SOUTH
BUILDING SECTIONS**

Project No./No. du projet R.077596.001	Sheet/Feuille WA12 OF 21	Revision no./ La Révision no. 3
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CHERNOFF THOMPSON
ARCHITECTS



3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22
Revision/ Client/client	Description/Description	Date/Date

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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Drawn by/Dessine par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

EAST BUILDING SECTIONS

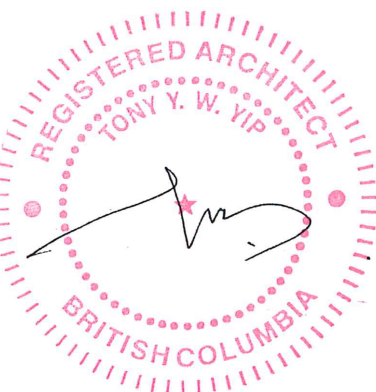
Project No./No. du projet	R.077596.001
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Sheet/Feuille

WA13

OF 22

Revision no./
La Révision
no. **3**



Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

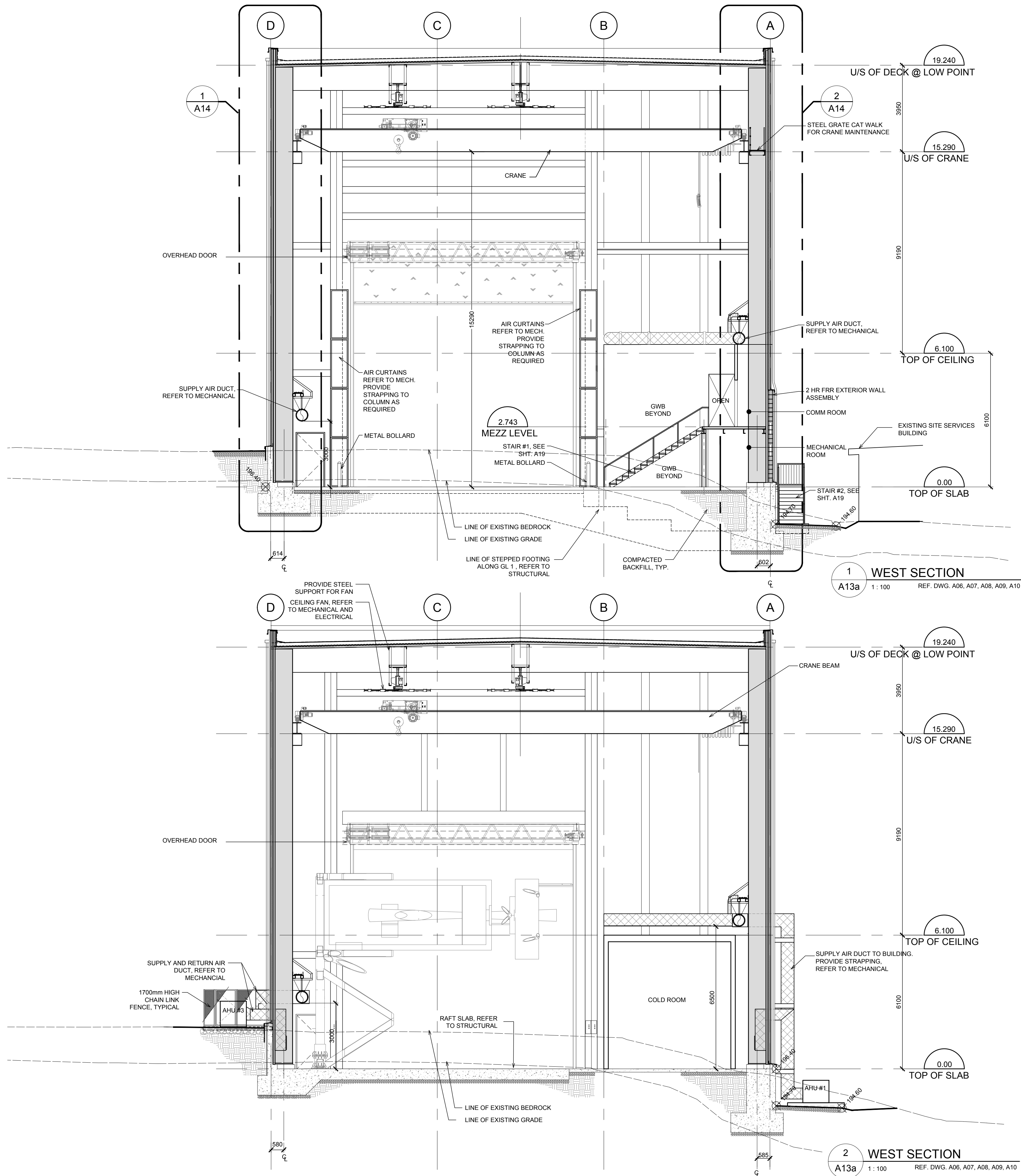
PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

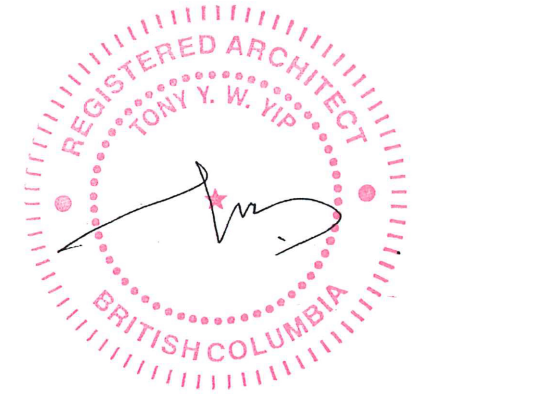
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PAUL PRETIPAL

Drawing title/Titre du dessin

**WEST
BUILDING SECTIONS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.077596.001	WA13a	3





Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

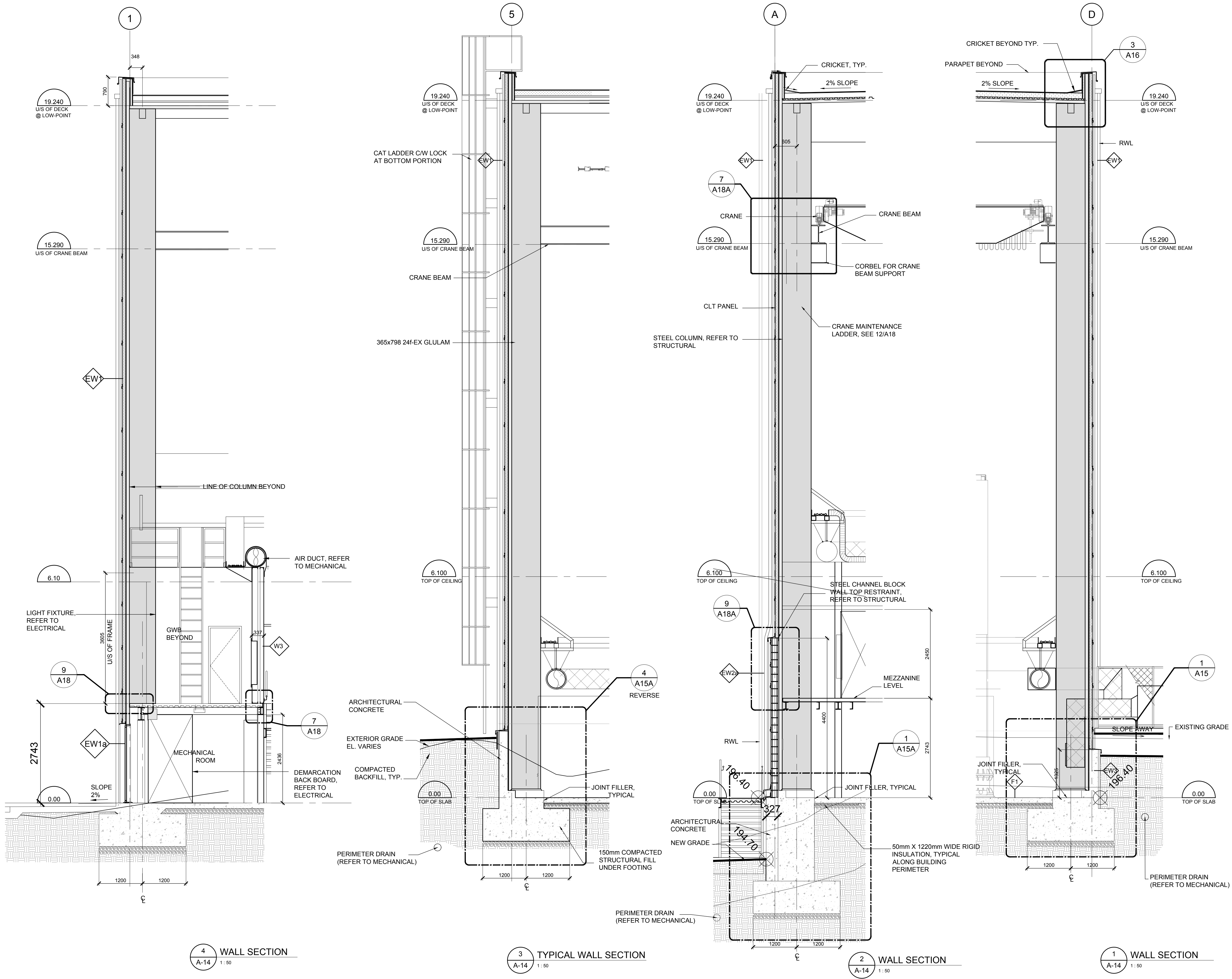
Drawing title/Titre du dessin

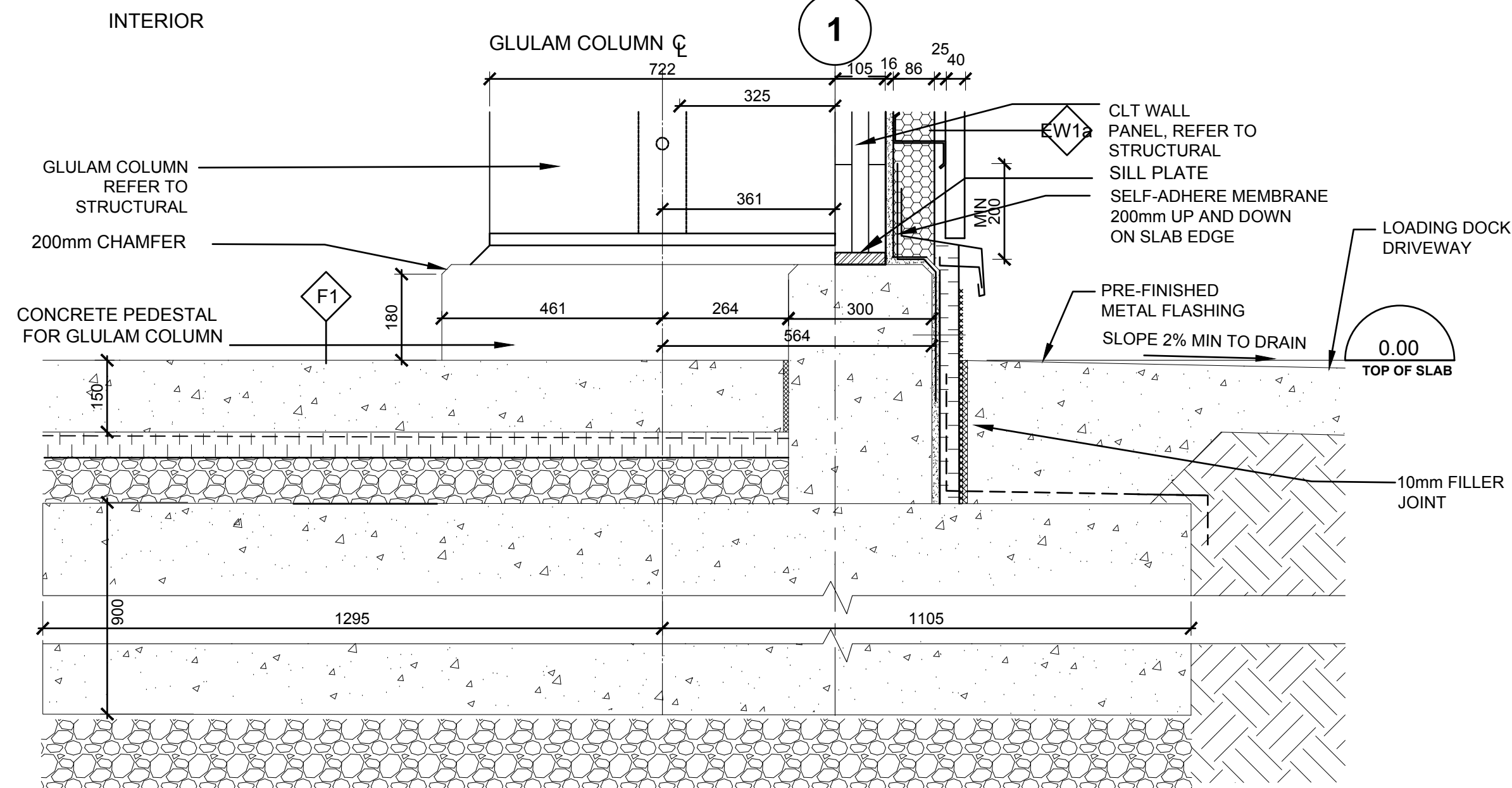
WALL SECTIONS

Project No./No. du
projet
R.077596.001

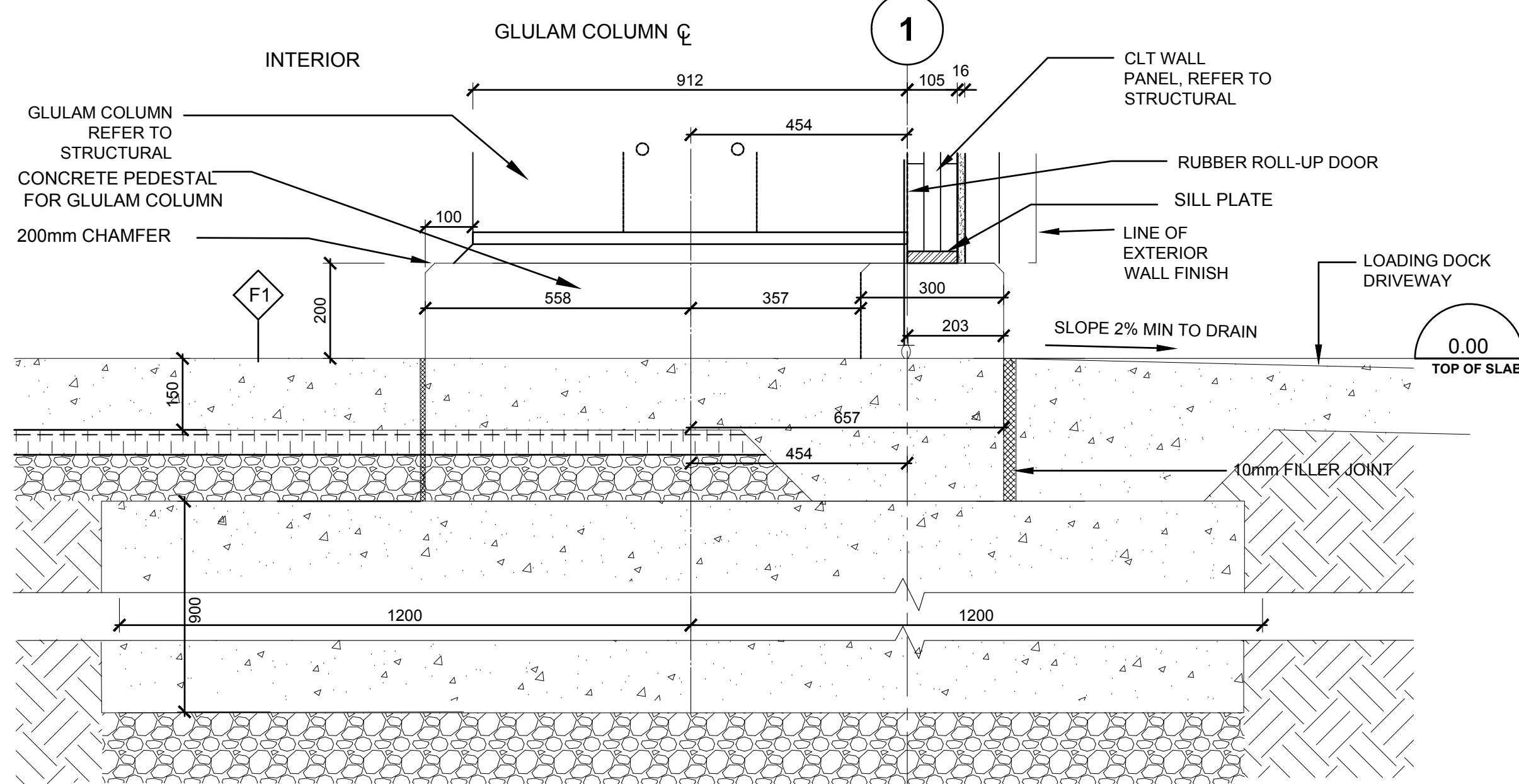
Sheet/Feuille
WA14
OF 22

Revision no./
La Révision
no.
3

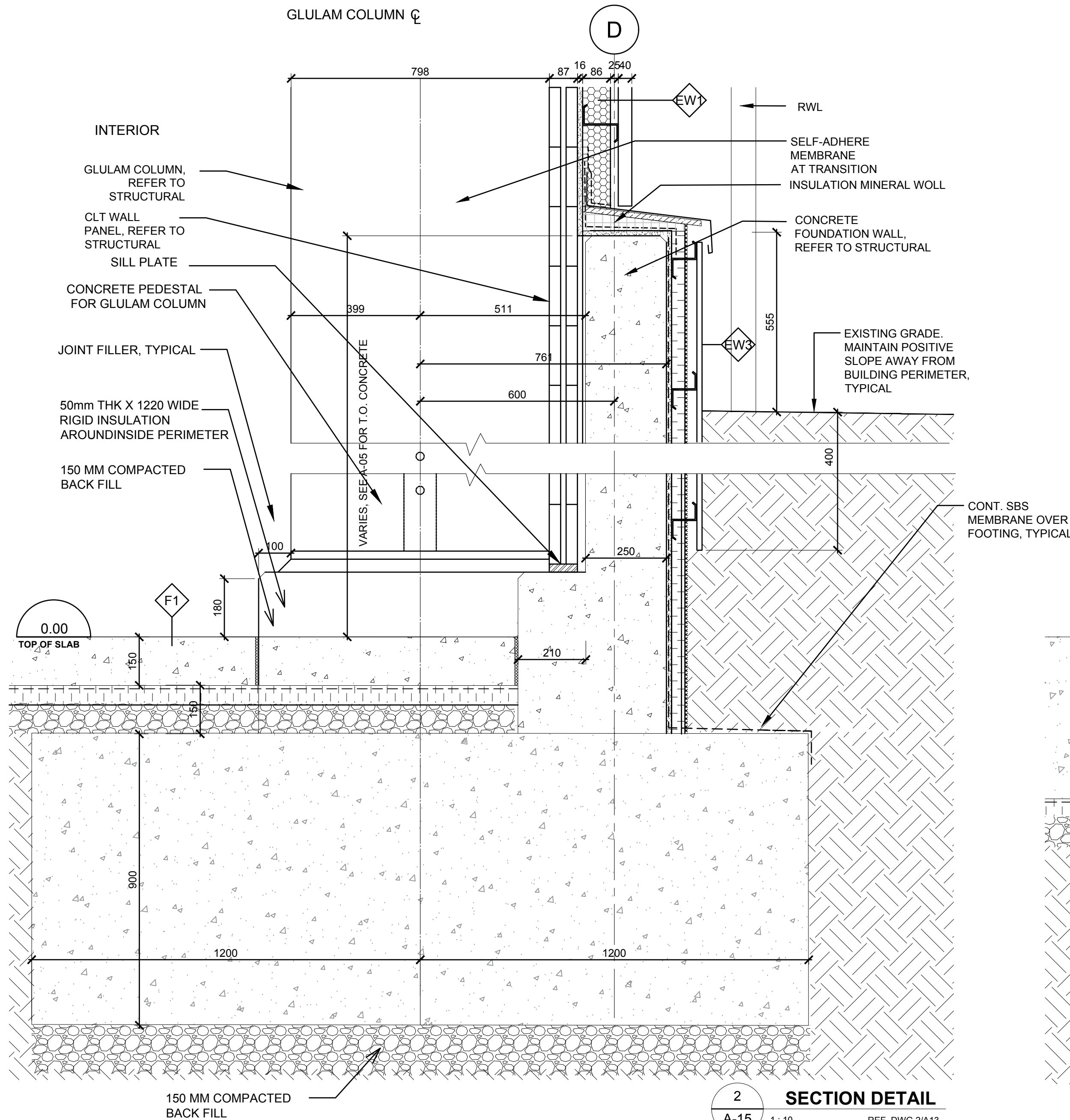




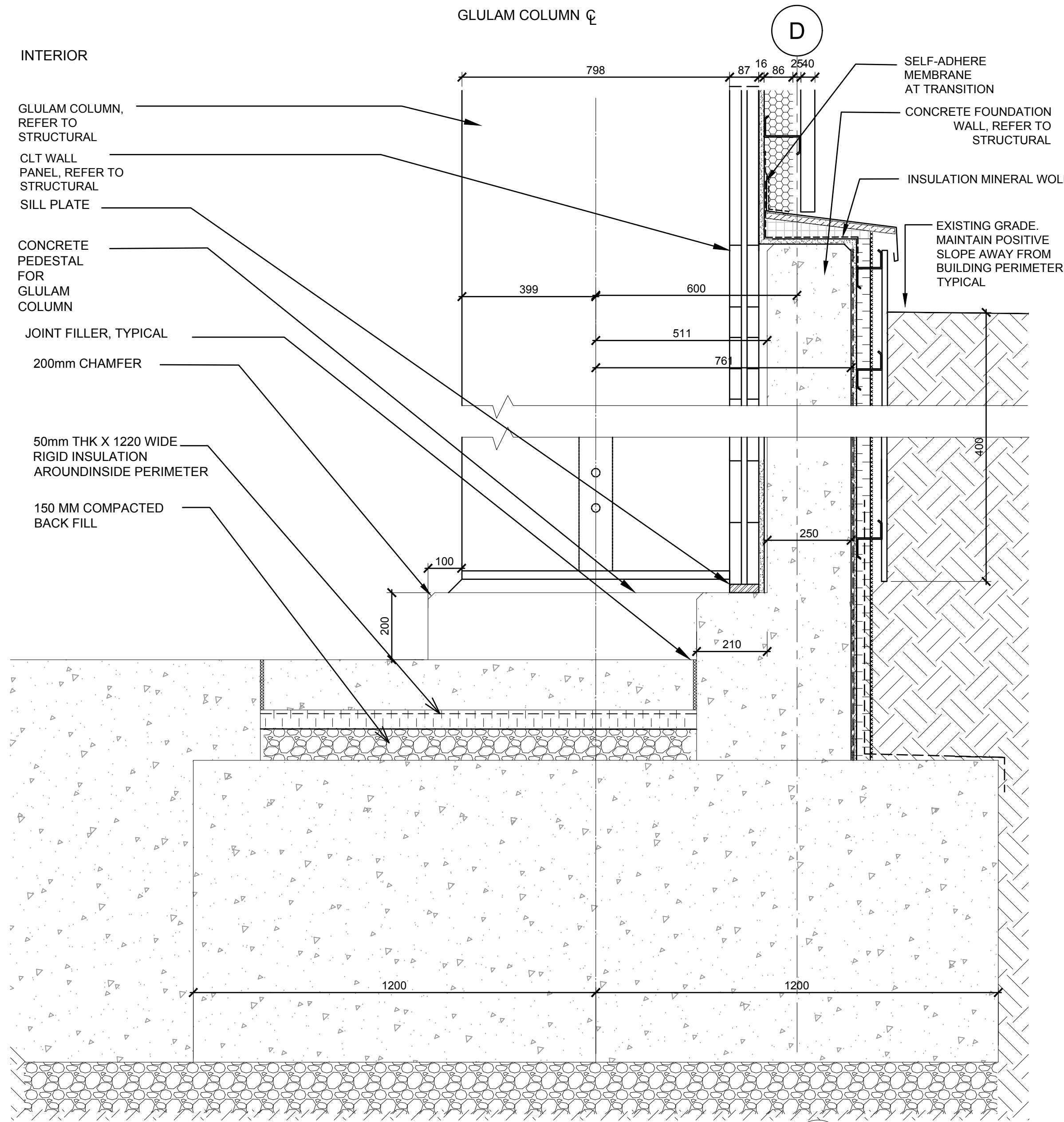
4 SECTION DETAIL
A-15 1:10 REF. DWG 1/A12



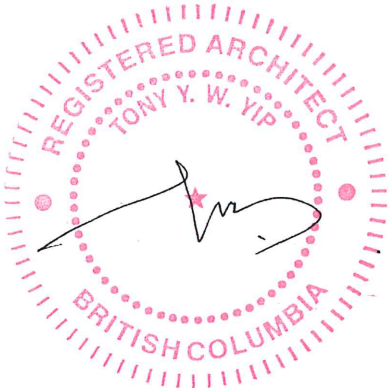
3 SECTION DETAIL / OVERHEAD DOOR
A-15 1:10 REF. DWG 2/A12



2 SECTION DETAIL
A-15 1:10 REF. DWG 2/A13



1 SECTION DETAIL
A-15 1:10 REF. DWG 1/A14



Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA

NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

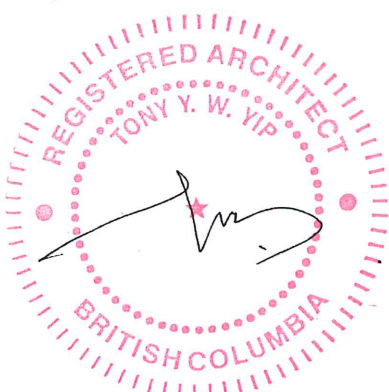
PWGC Project Manager/Administrateur de Projets TPSC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSC
PAUL PRETIPAL

Drawing title/Titre du dessin

SECTION DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.077596.001	WA15	3
	OF 22	



Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

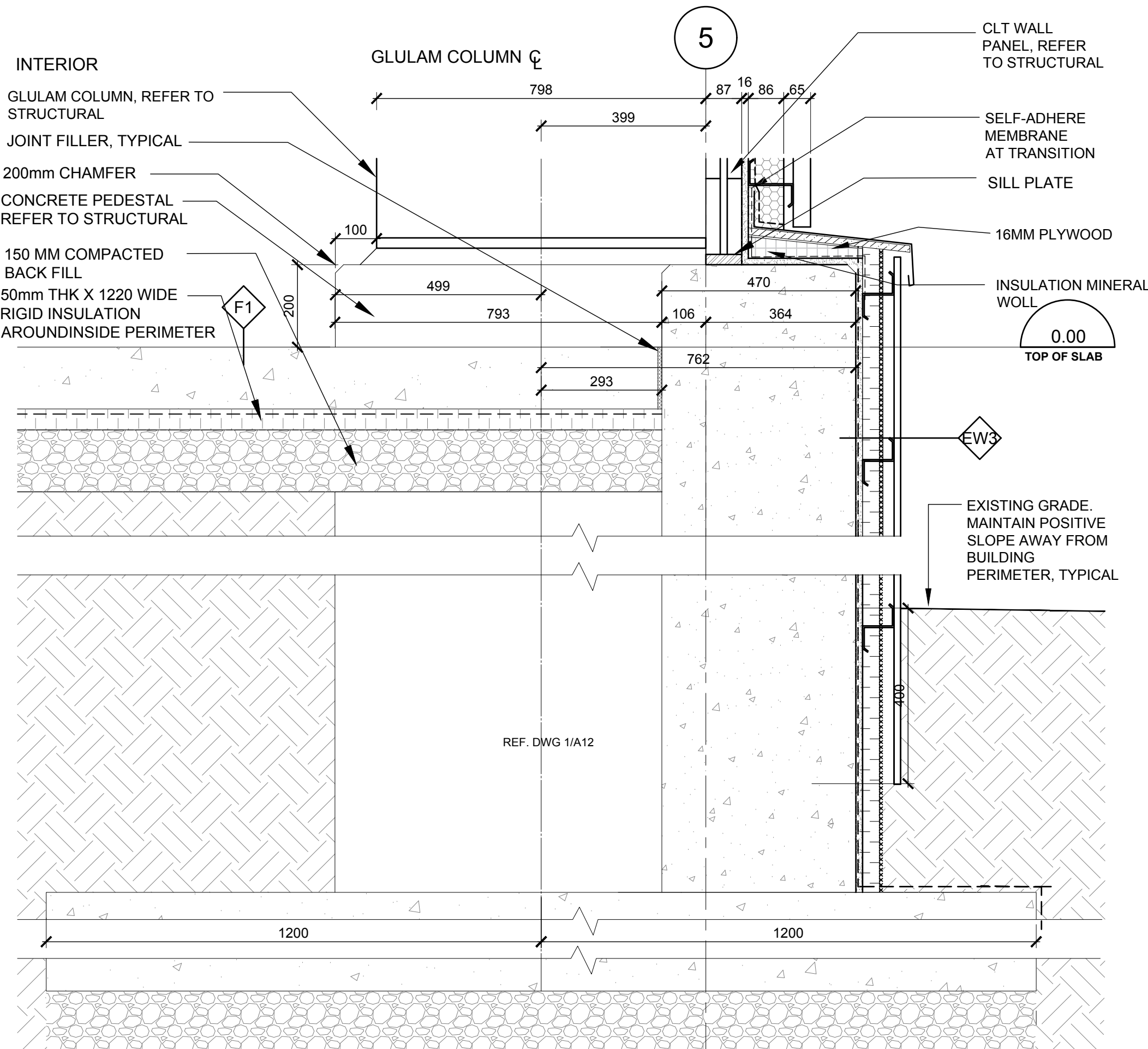
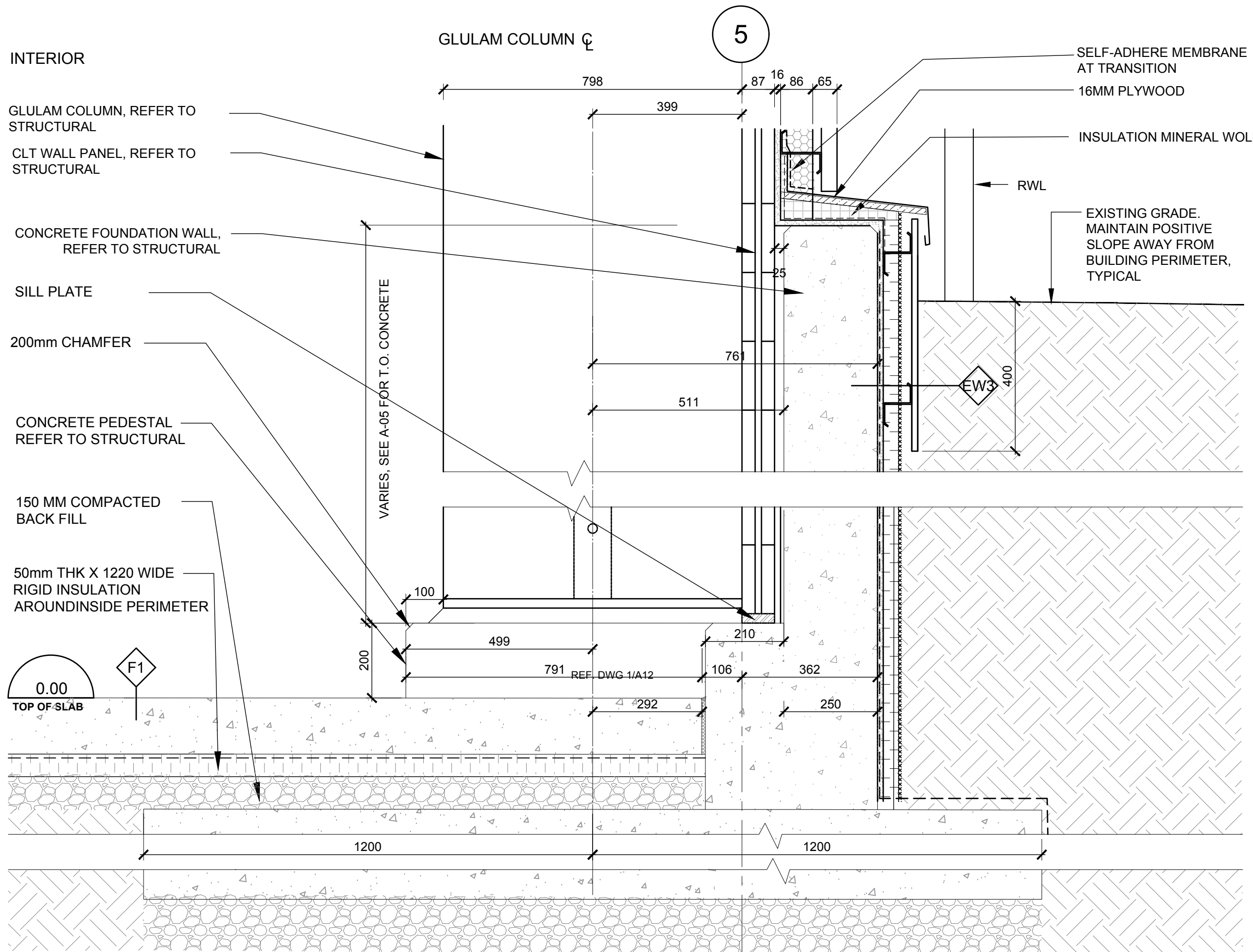
SECTION DETAILS

Project No./No. du
projet
R.077596.001

Sheet/ Feuille
WA15 A

Revision no./
La Révision
no.
3

OF 22



4 SECTION DETAIL
A-15 A 1:10 REF. DWG 3/A14

190CMU WALL, REFER TO STRUCTURAL
GLULAM COLUMN, REFER TO STRUCTURAL
CLT WALL PANEL, REFER TO STRUCTURAL
CONCRETE FOUNDATION WALL, REFER TO STRUCTURAL
INSULATION MINERAL WOLL

0.00 TOP OF SLAB

EXISTING GRADE, MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING PERIMETER, TYPICAL

3 SECTION DETAIL
A-15 A 1:10 REF. DWG 1/A12

SILL PLATE INTERIOR

200mm CHAMFER

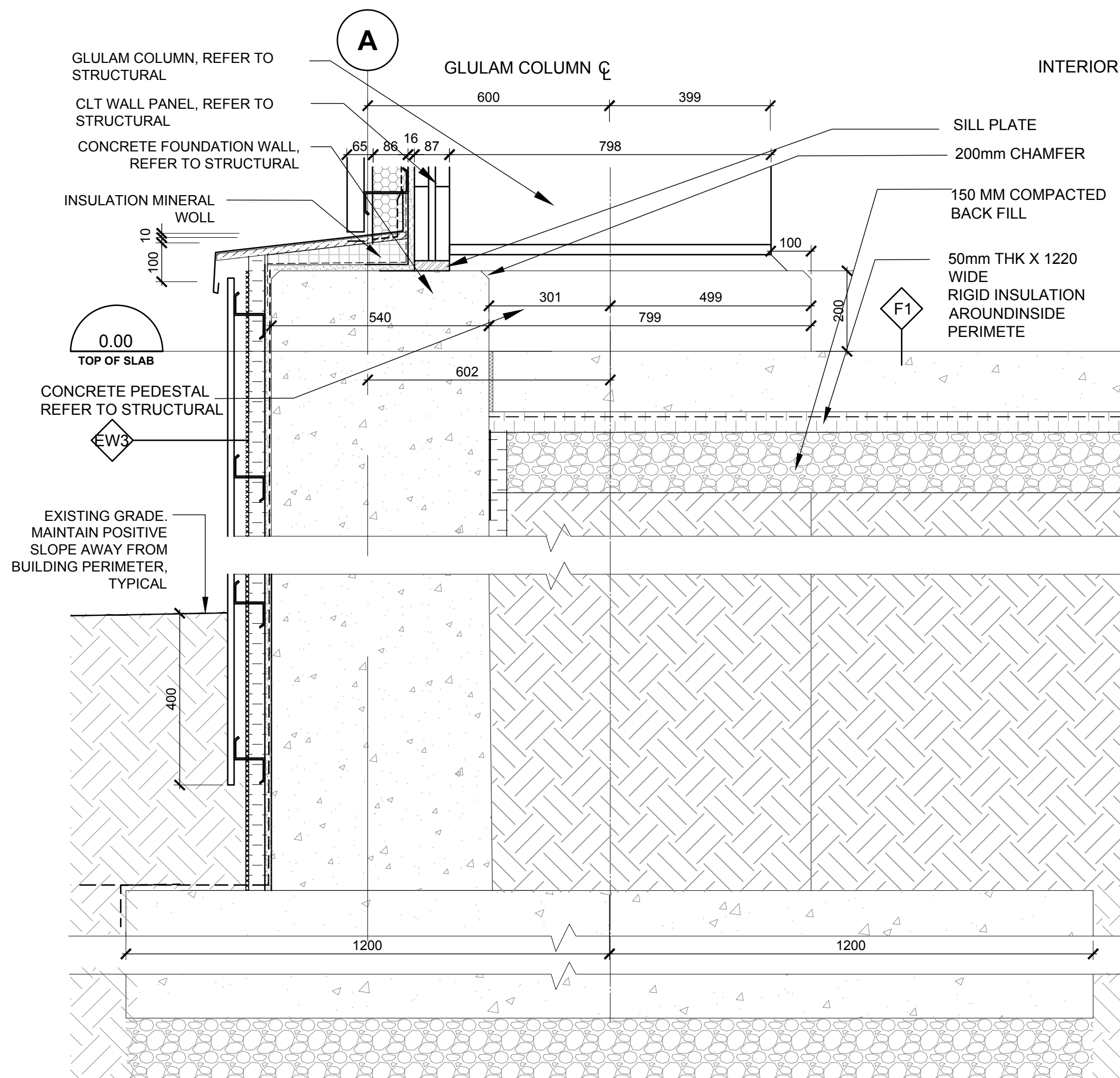
150 MM COMPACTED BACK FILL

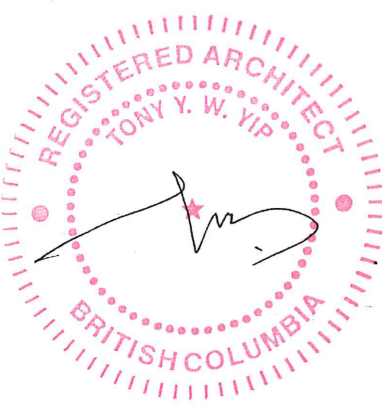
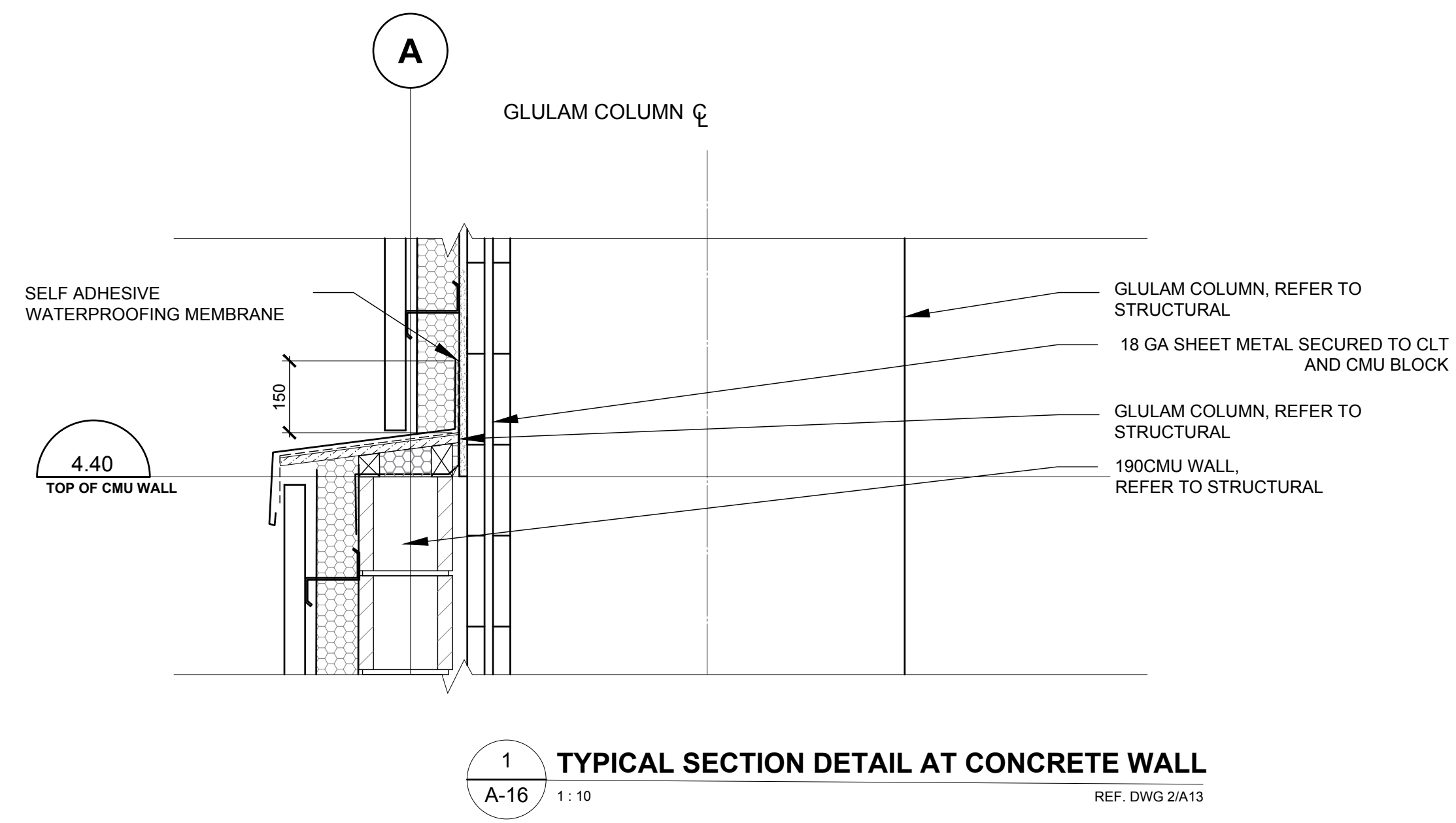
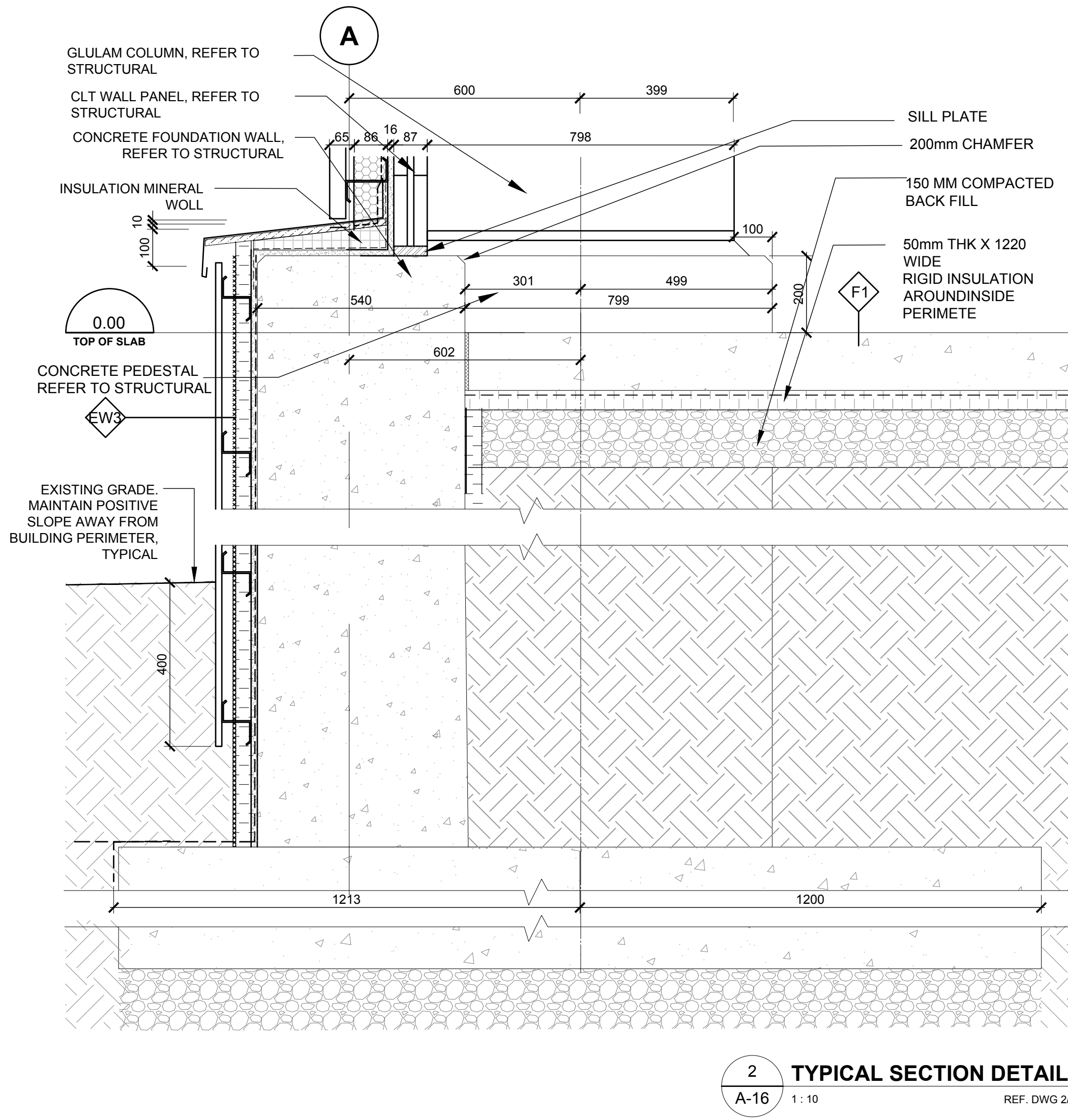
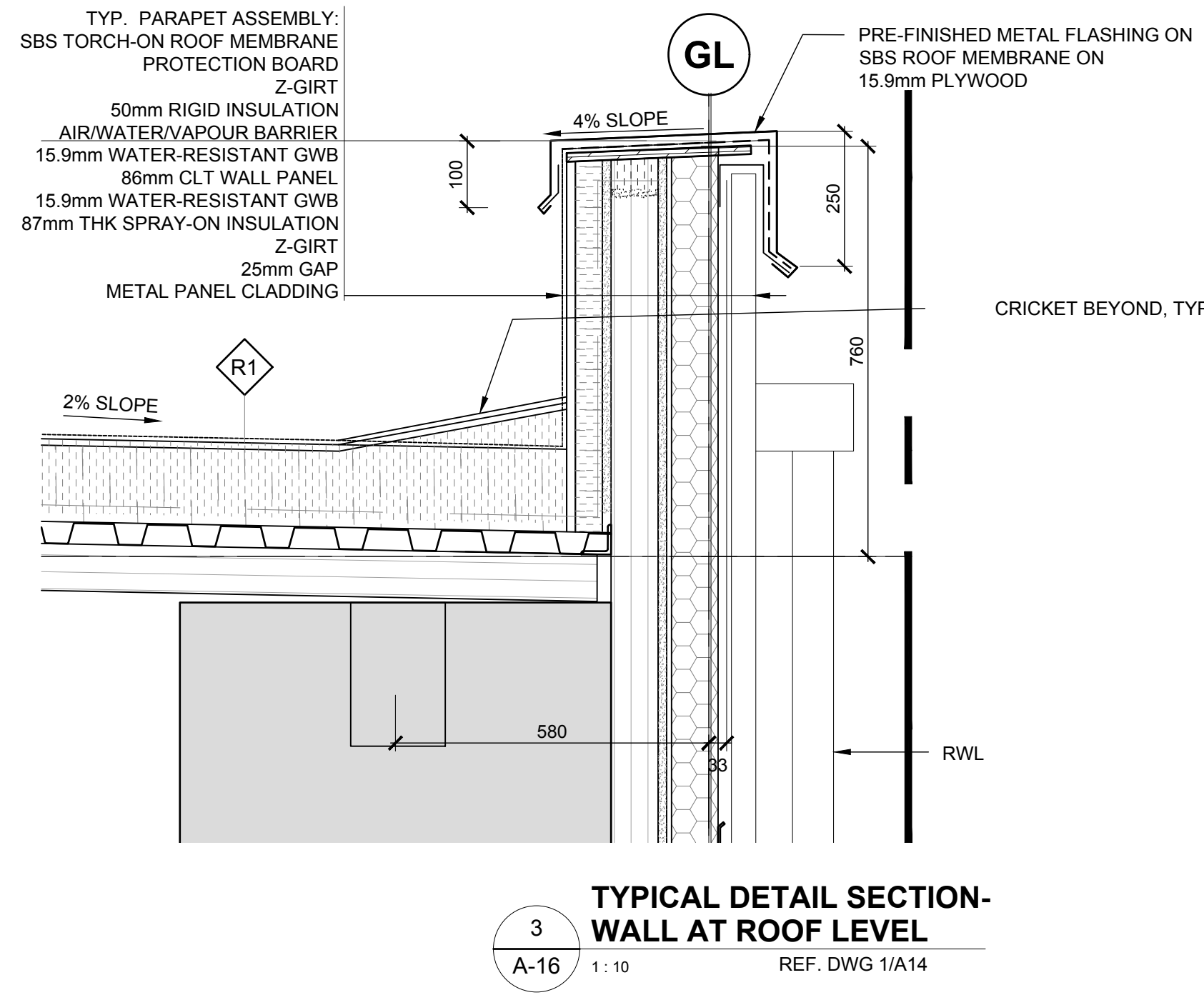
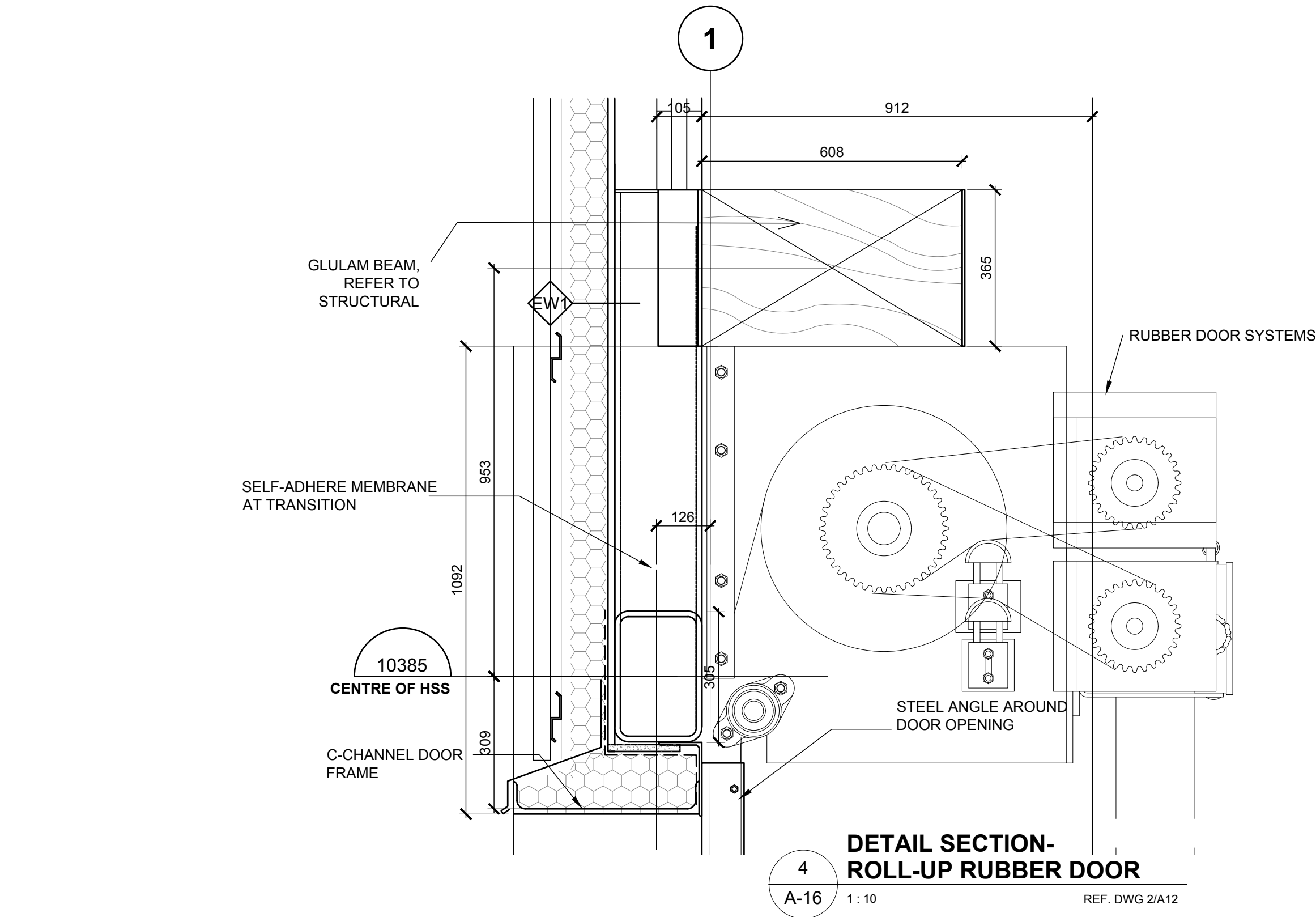
50mm THK X 1220 WIDE RIGID INSULATION AROUND INSIDE PERIMETER

F1

1 TYPICAL SECTION DETAIL AT CONCRETE WALL
A-15 A 1:10 REF. DWG 2/A14

2 SECTION DETAIL
A-15 A 1:10 REF. DWG 2/A13





Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

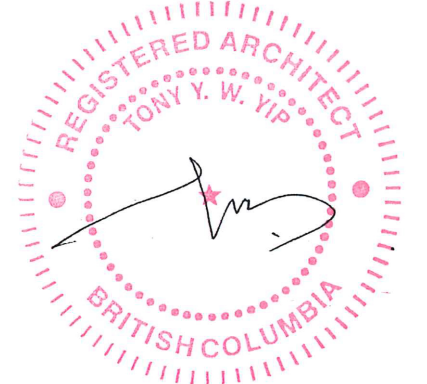
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

SECTION DETAILS

Project No./No. du projet R.077596.001	Sheet/Feuille WA16 OF 22	Revision no./La Révision no. 3
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Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2019.03.14
1	ISSUED FOR 99% CD REVIEW	2018.02.22

Client/client

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PAUL PREETIPAL

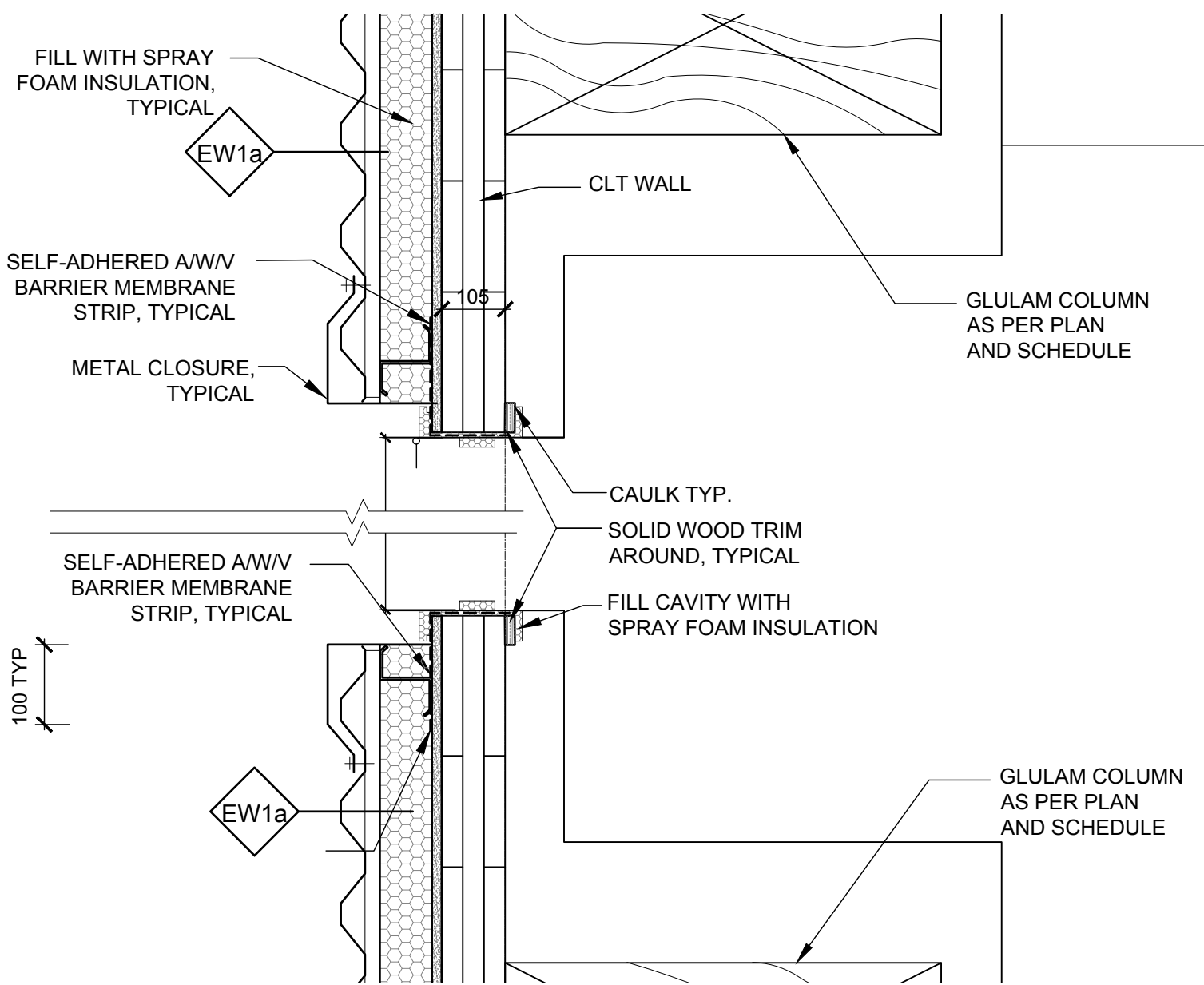
Drawing title/Titre du dessin

PLAN DETAILS

Project No./No. du
projet
R.077596.001

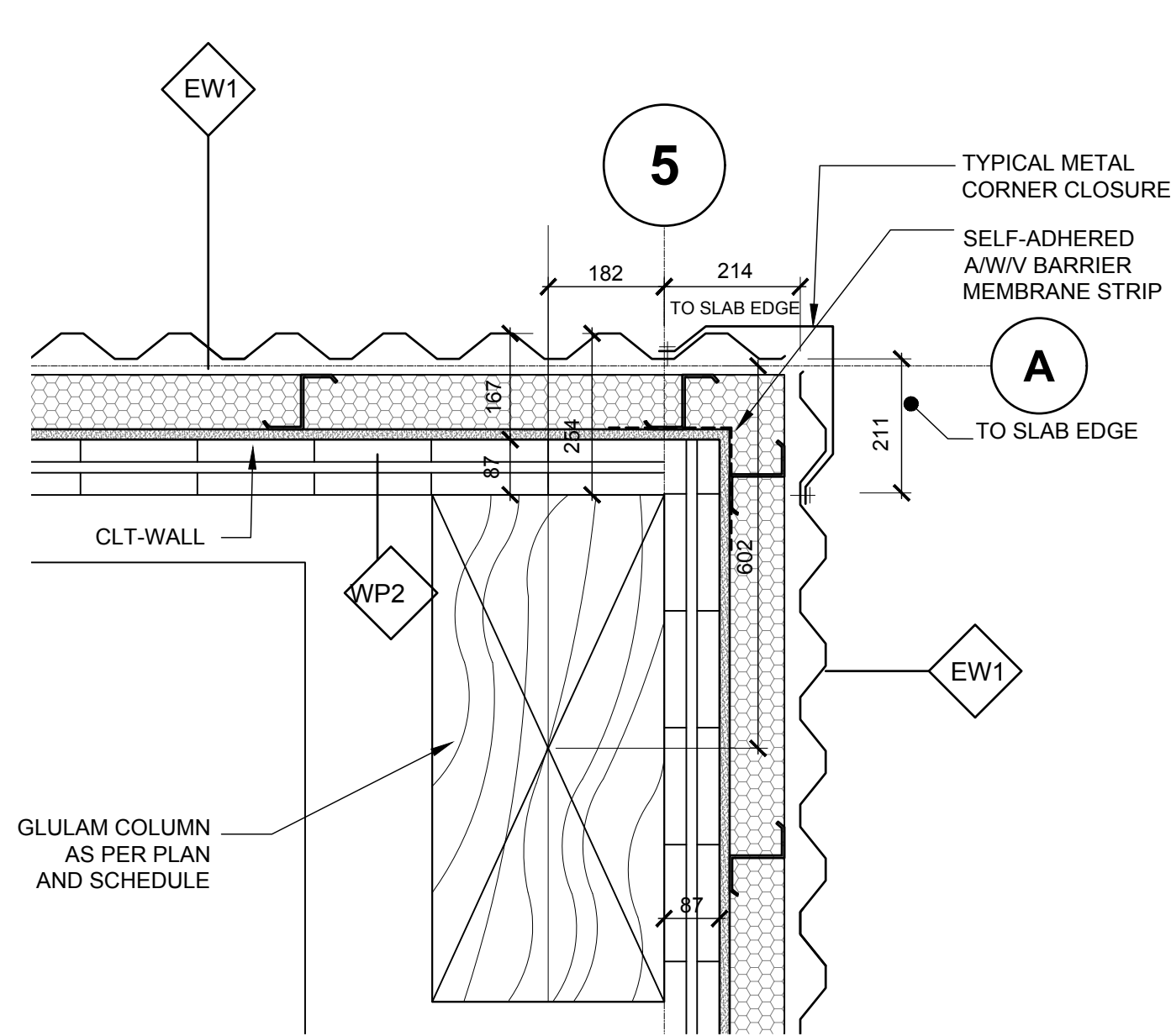
Sheet/ Feuille
WA17
OF 22

Revision no./
La Revision
no.
3



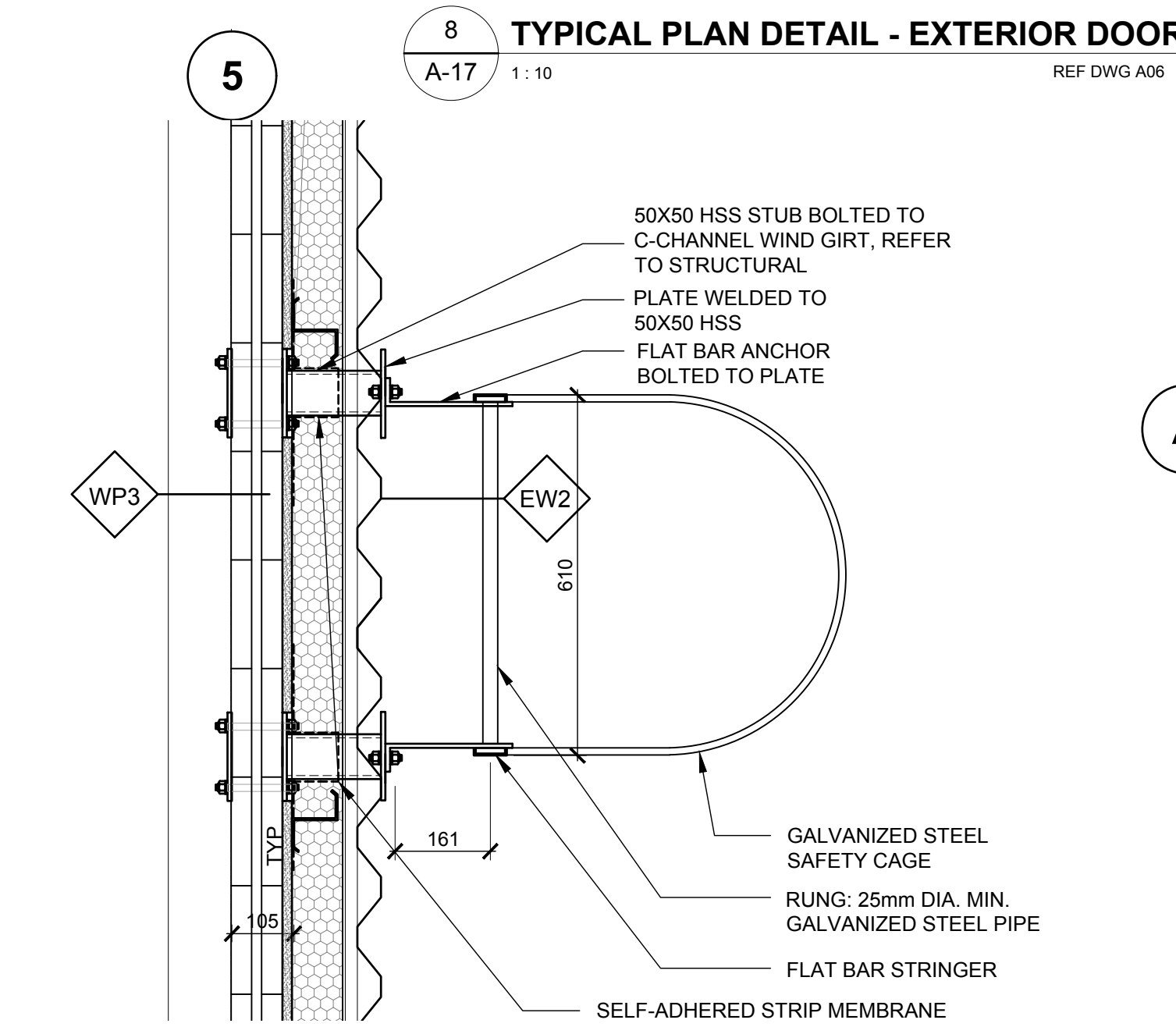
8 TYPICAL PLAN DETAIL - EXTERIOR DOOR

A-17 1:10 REF DWG A06



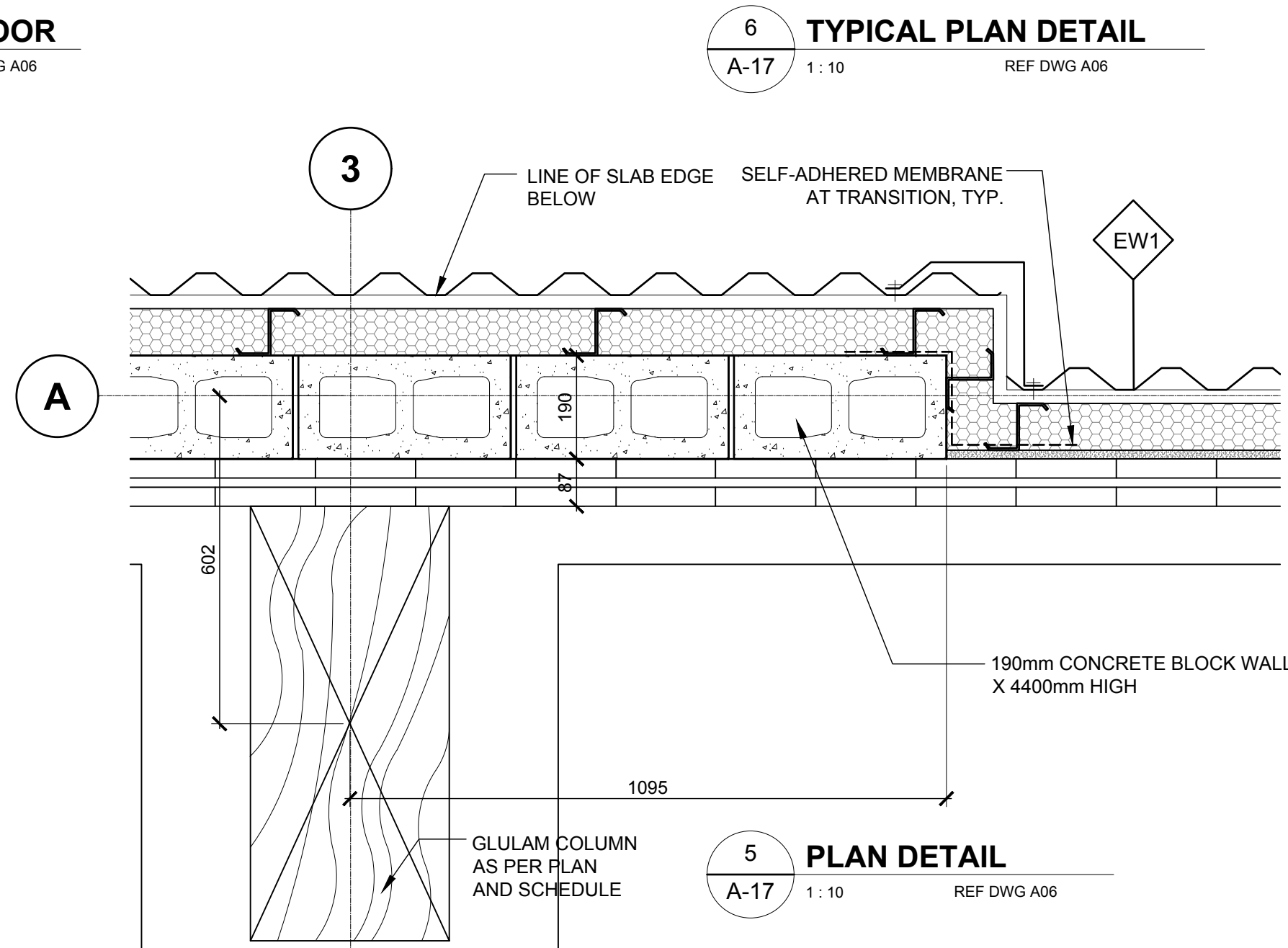
6 TYPICAL PLAN DETAIL

A-17 1:10 REF DWG A06



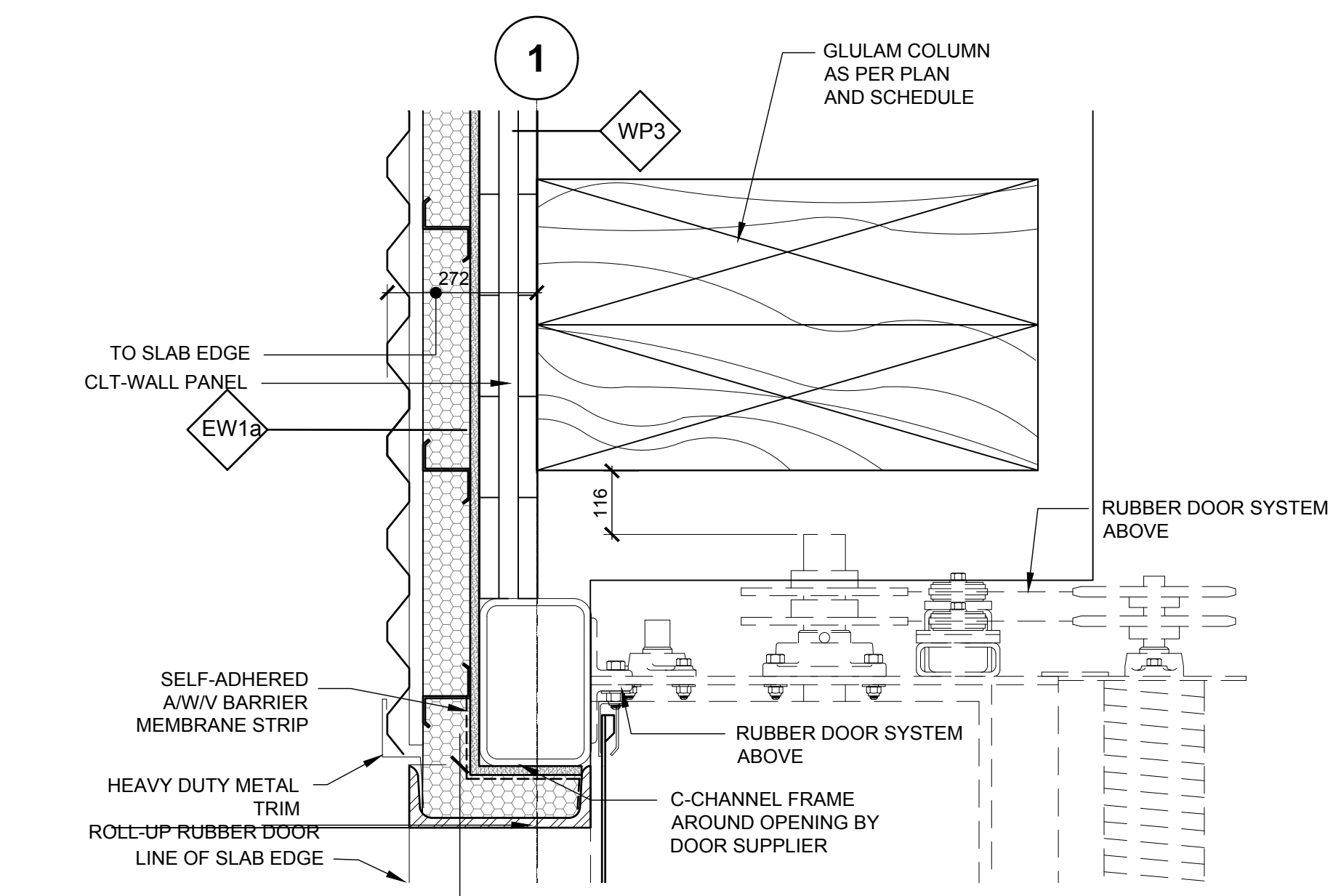
7 PLAN DETAIL - CAT LADDER

A-17 1:10 REF DWG A06



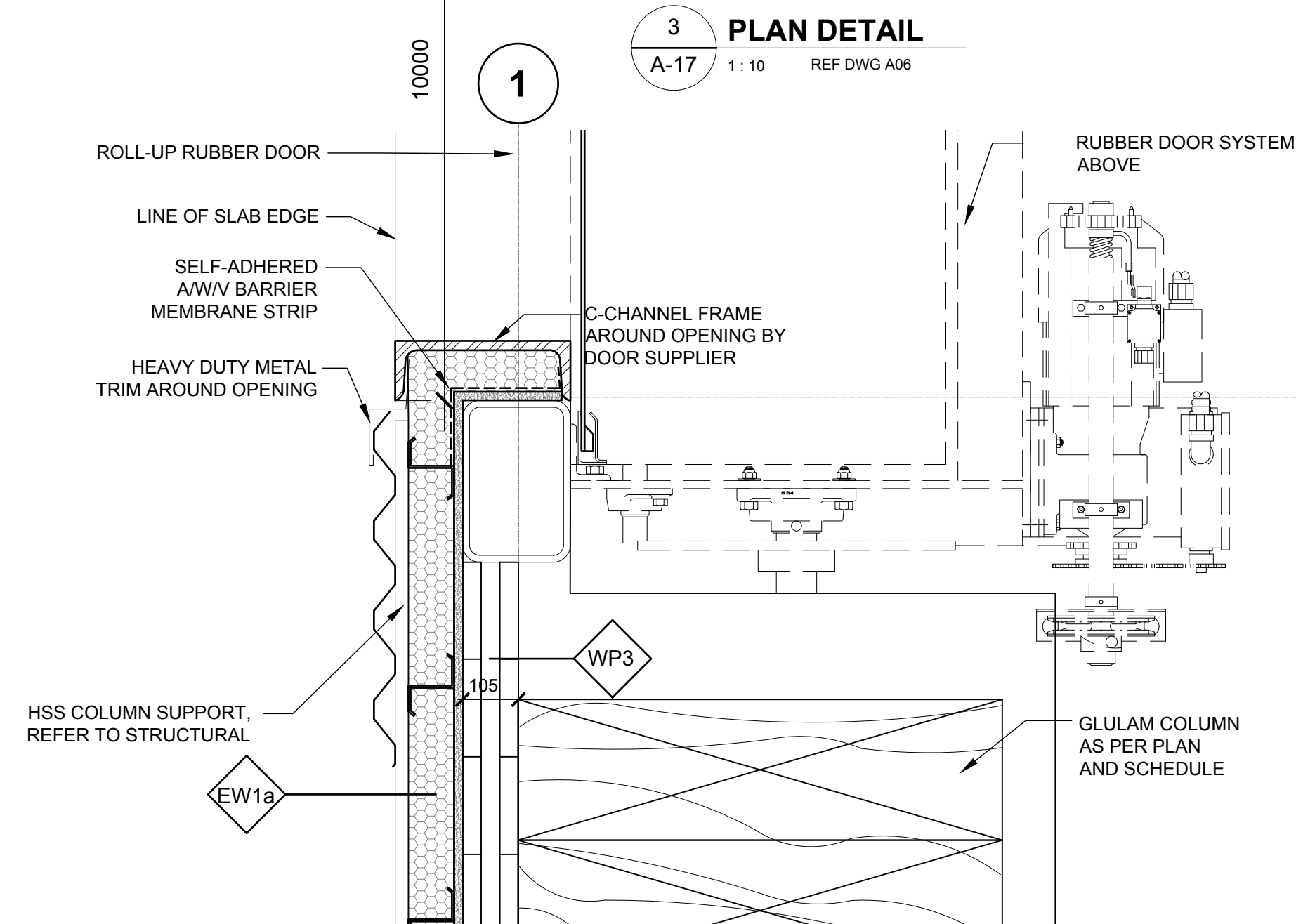
3 PLAN DETAIL

A-17 1:10 REF DWG A06



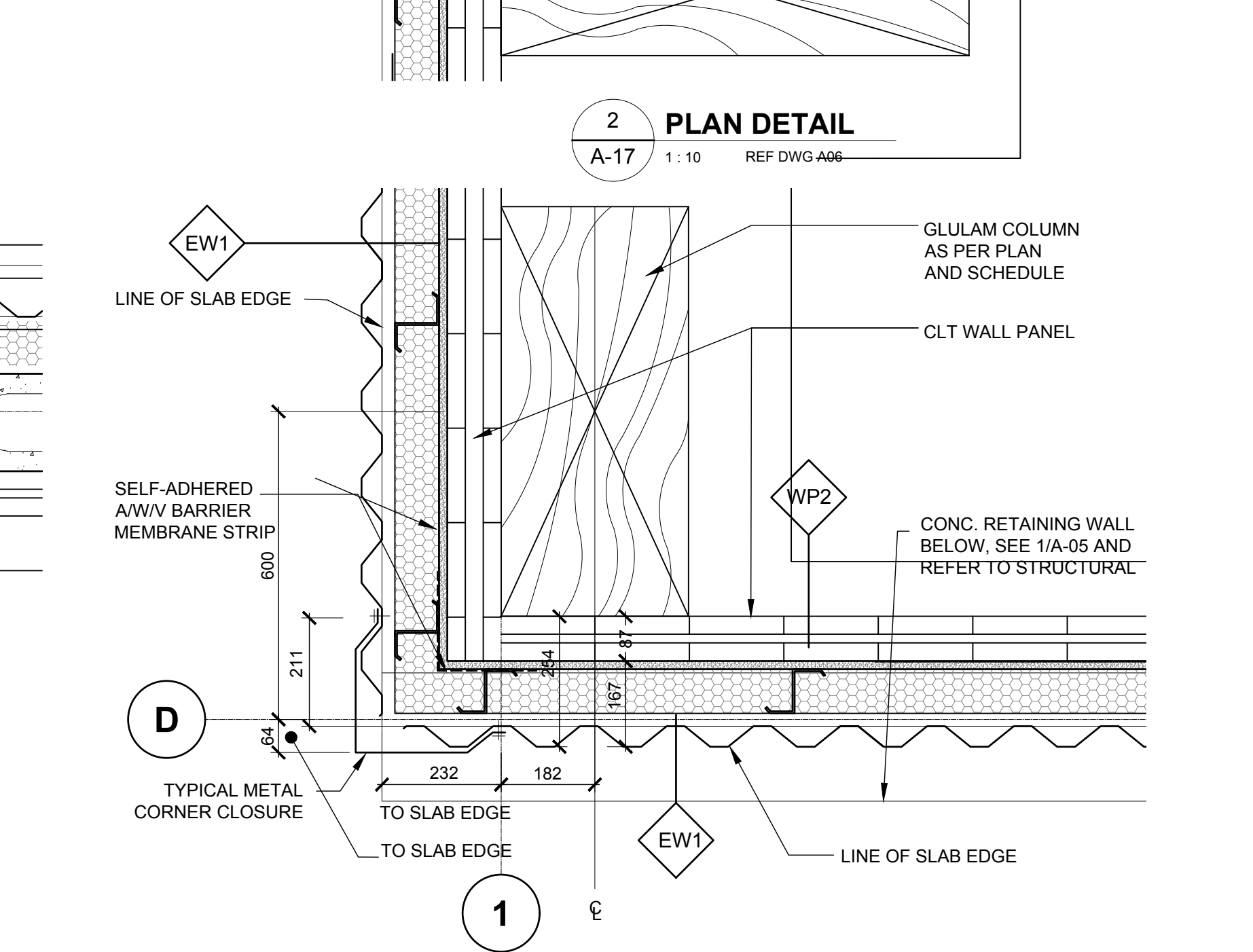
1 PLAN DETAIL

A-17 1:10 REF DWG A06



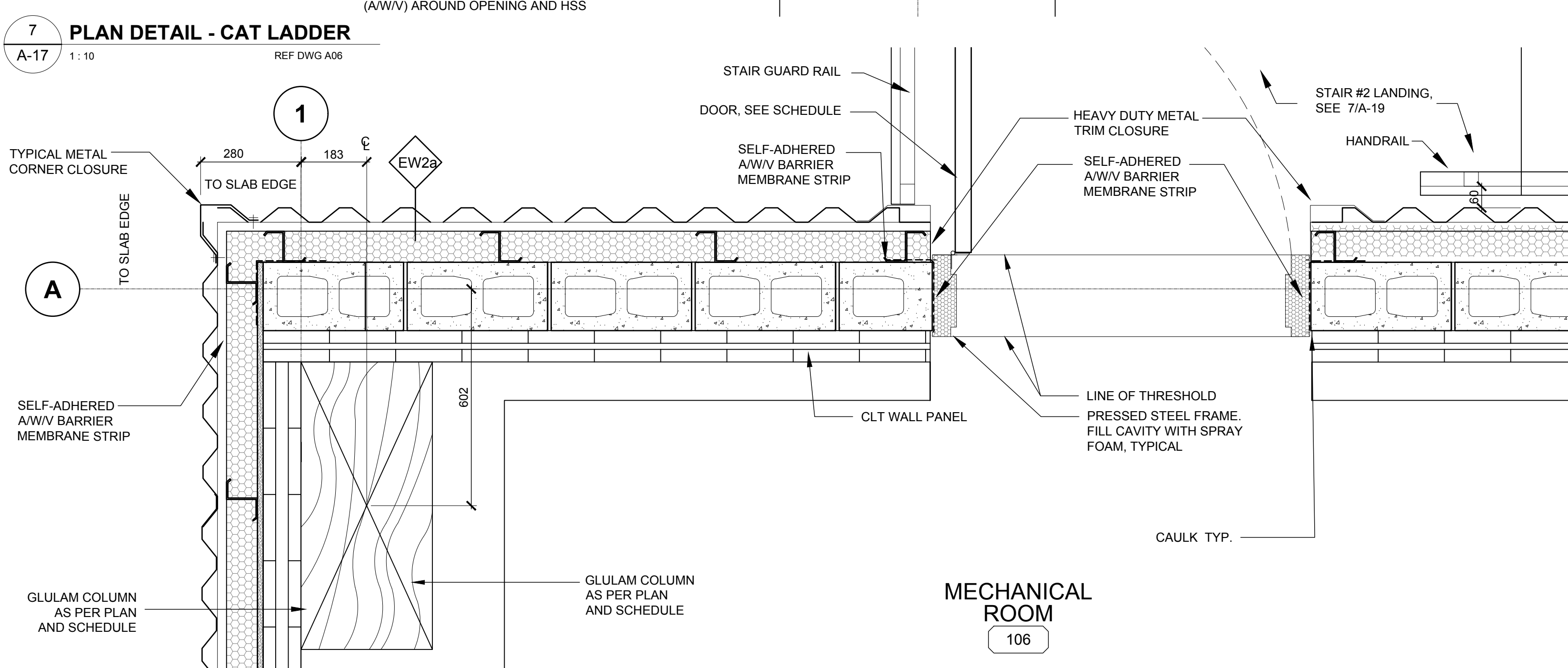
2 PLAN DETAIL

A-17 1:10 REF DWG A06



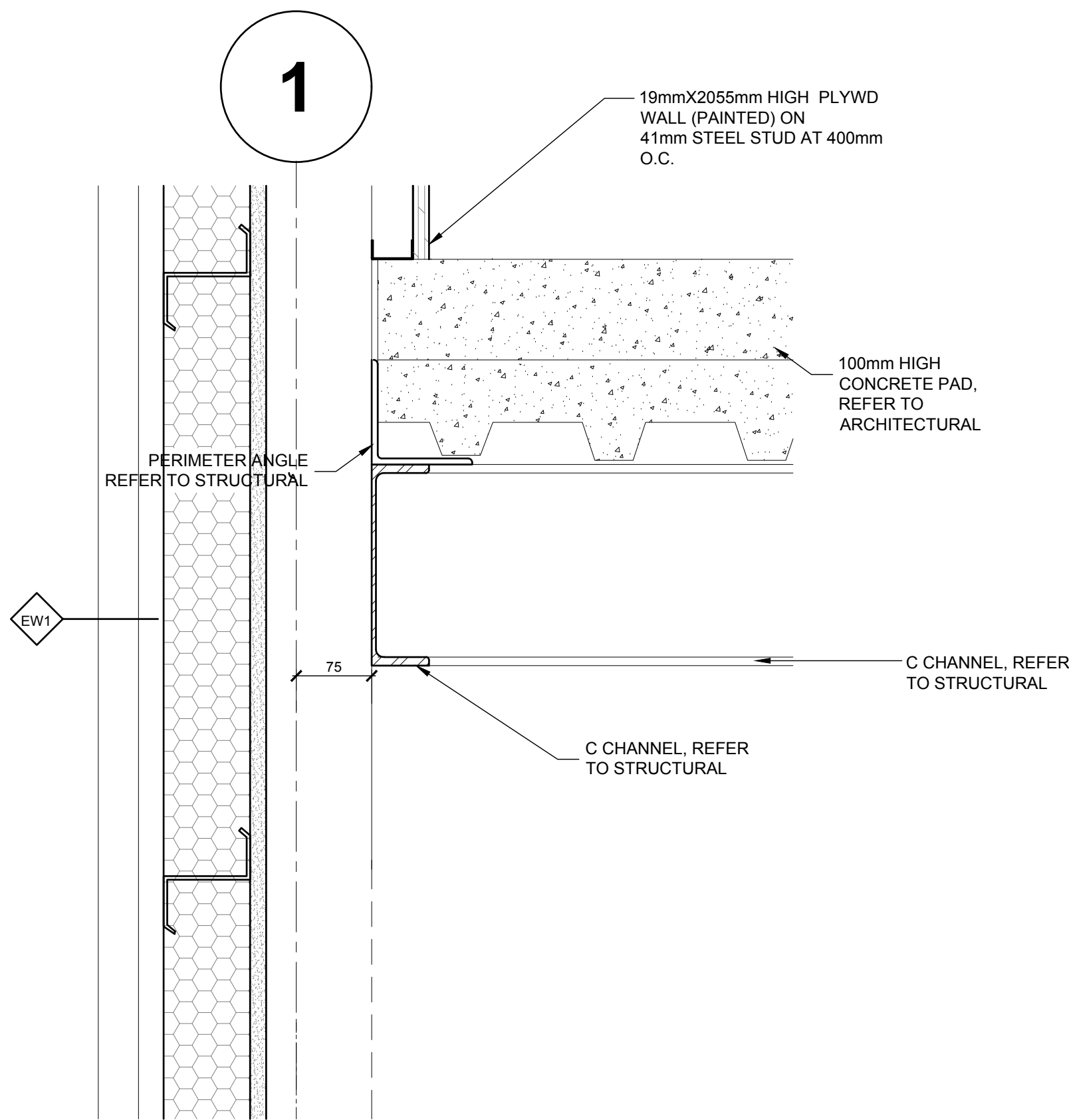
1 TYPICAL PLAN DETAIL

A-17 1:10 REF DWG A06



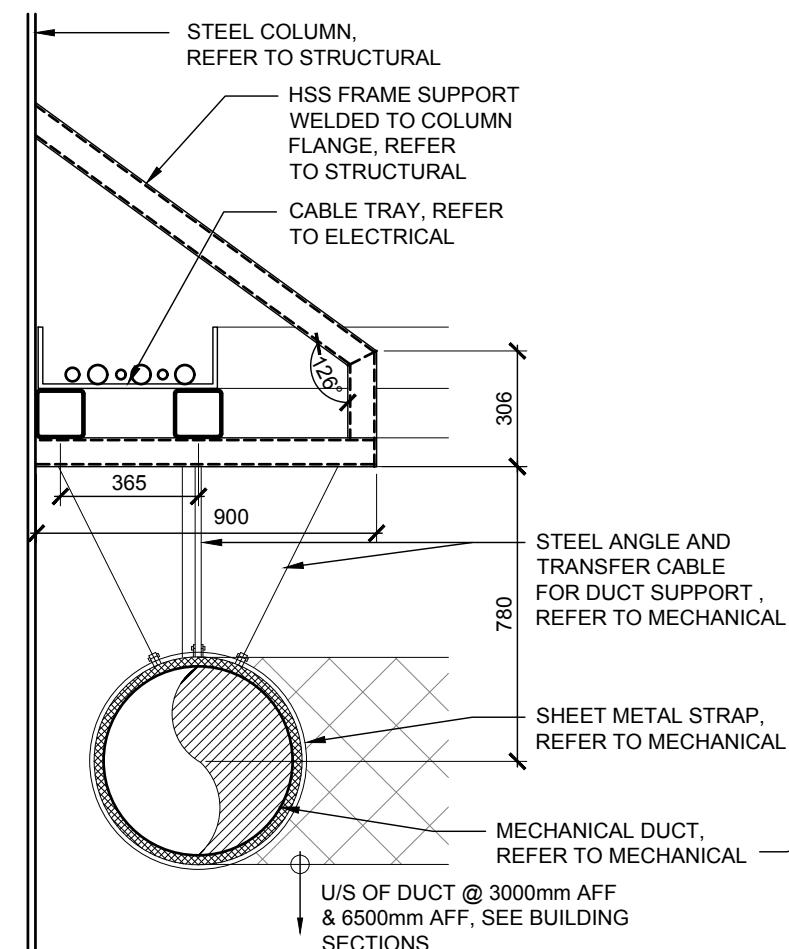
4 TYPICAL PLAN DETAIL

A-17 1:10 REF DWG A06



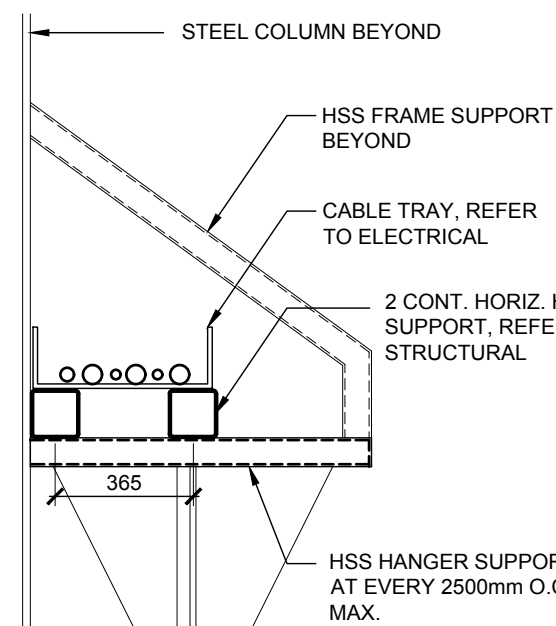
DETAIL SECTION -
MEZZANINE FLOOR

9 A-18 1:5 REF DWG 4/A14



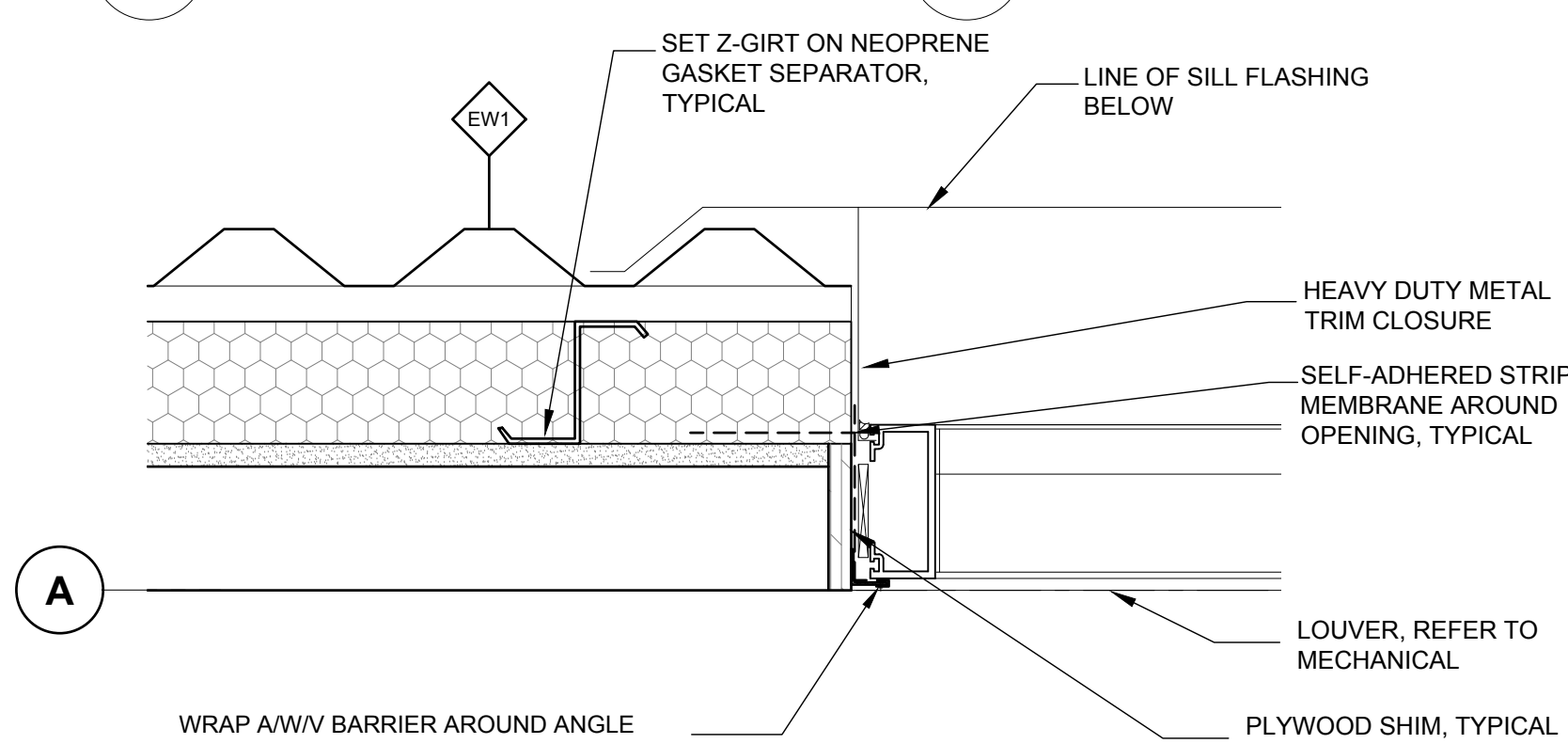
DETAIL SECTION -
AIR DUCT SUPPORT @ COLUMN

9 A-18 1:20



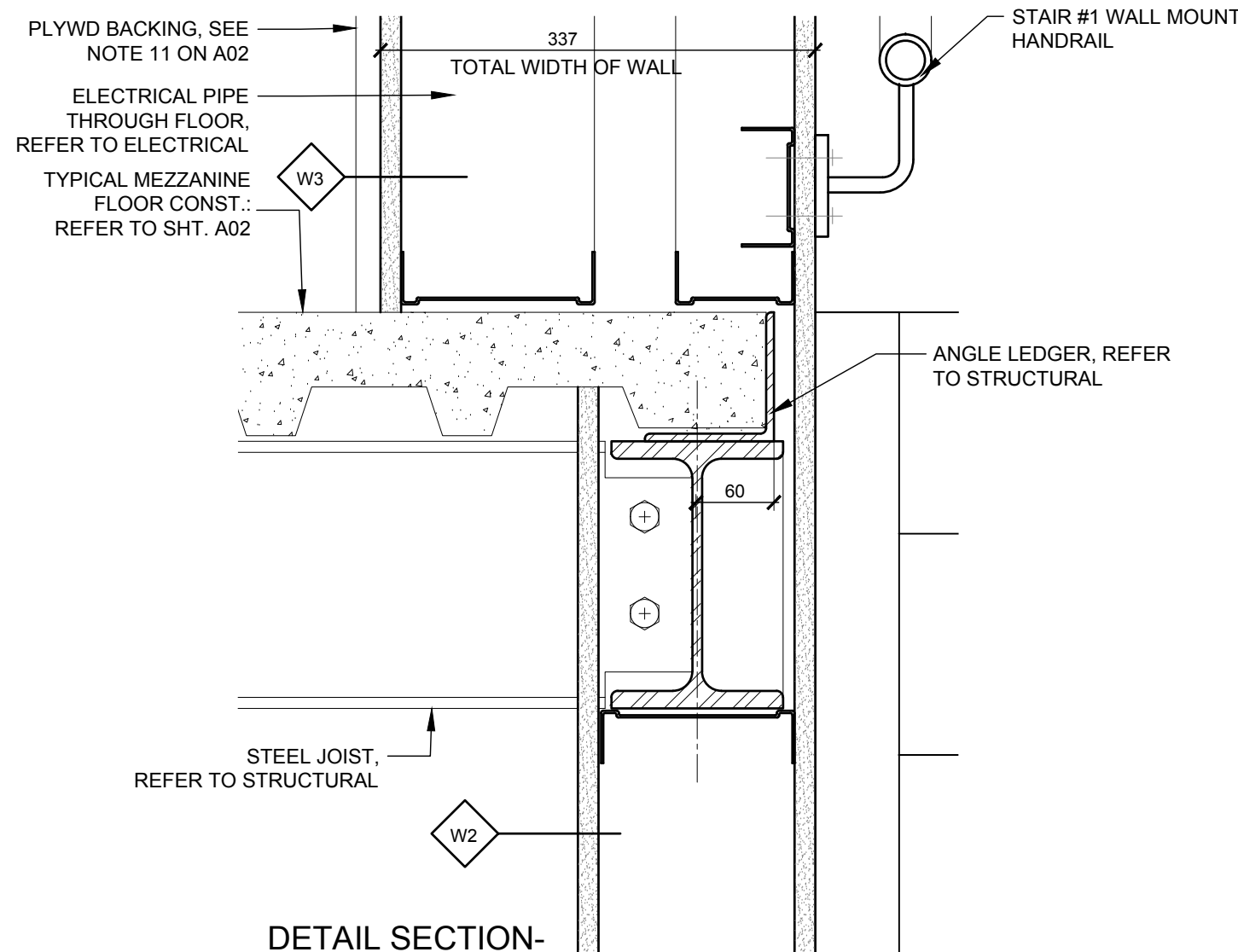
DETAIL SECTION -
AIR DUCT SUPPORT BETW COLUMNS

9A A-18 1:20



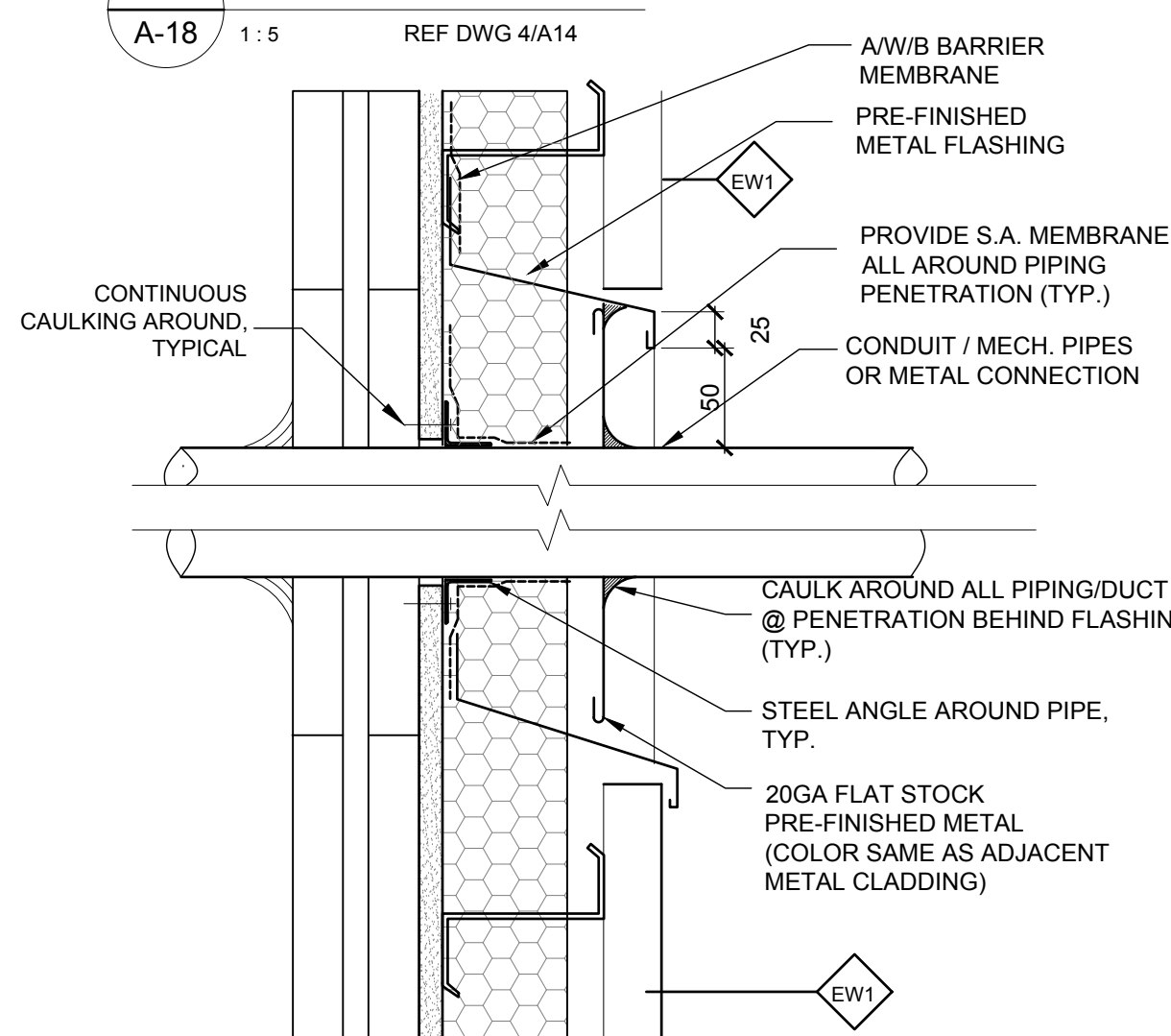
PLAN DETAIL - TYPICAL LOUVER JAMB

8 A-18 1:5



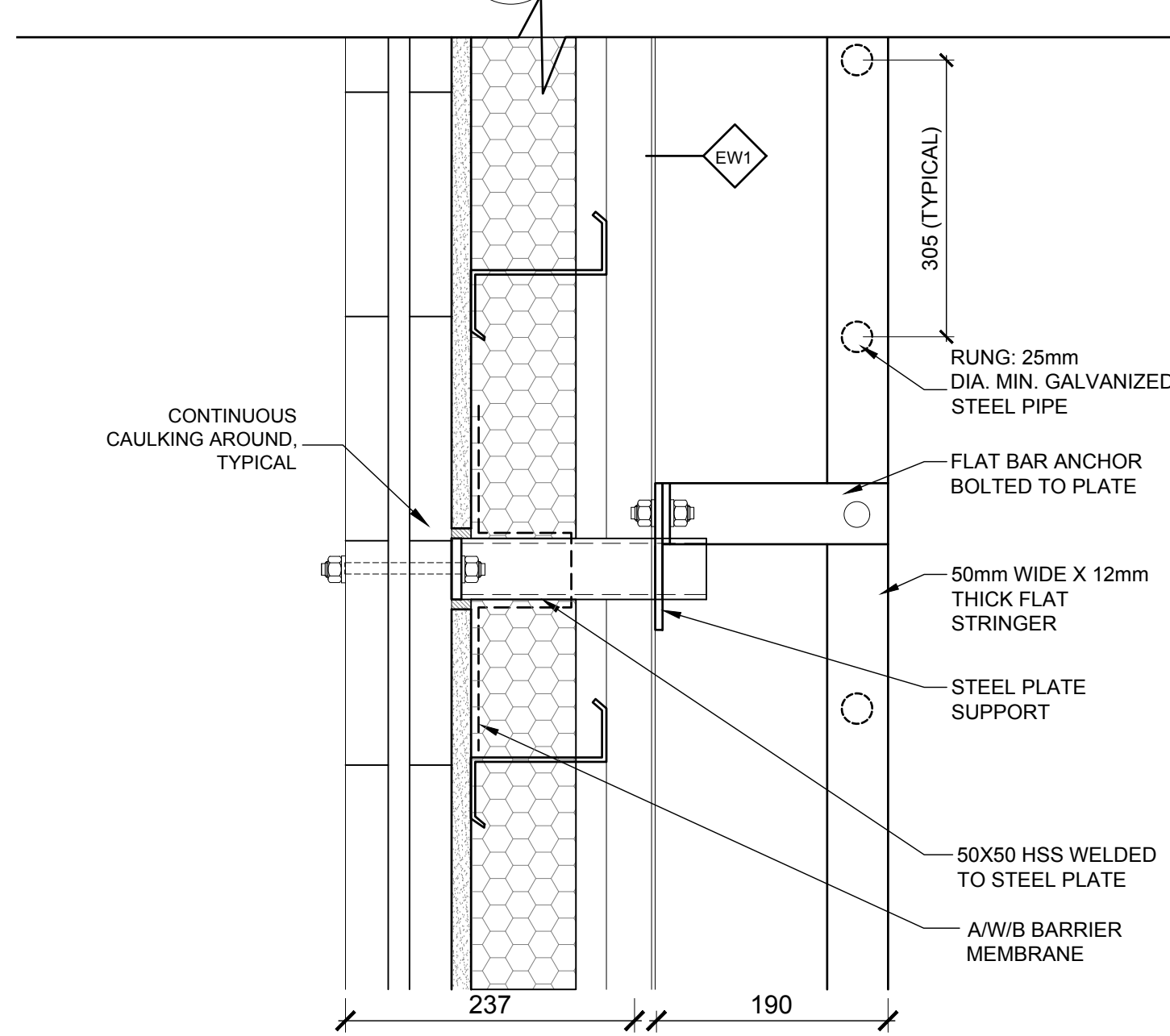
DETAIL SECTION -
MEZZANINE DECK

7 A-18 1:5 REF DWG 4/A14



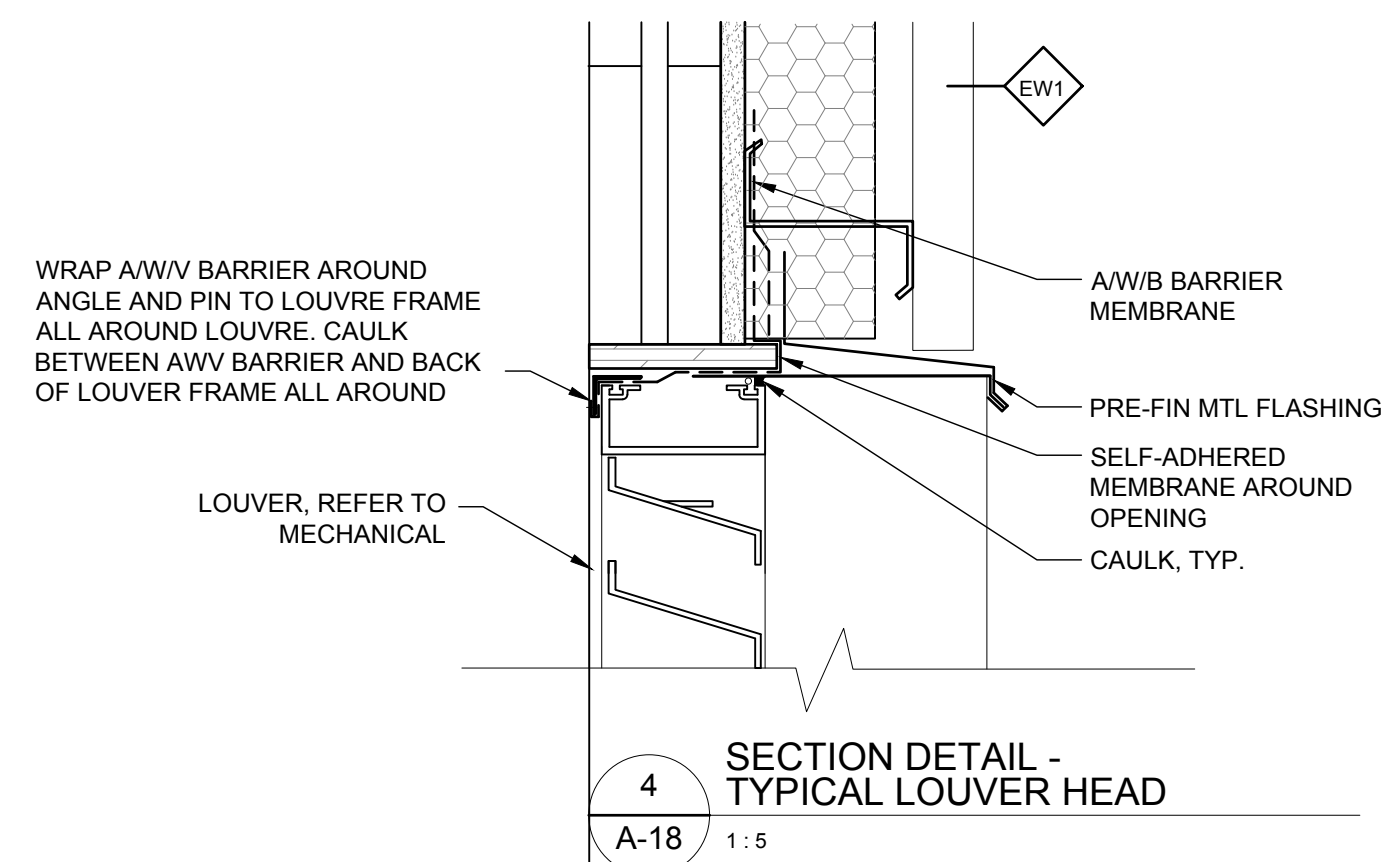
SECTION DETAIL -
TYPICAL WALL PENETRATION

6 A-18 1:5



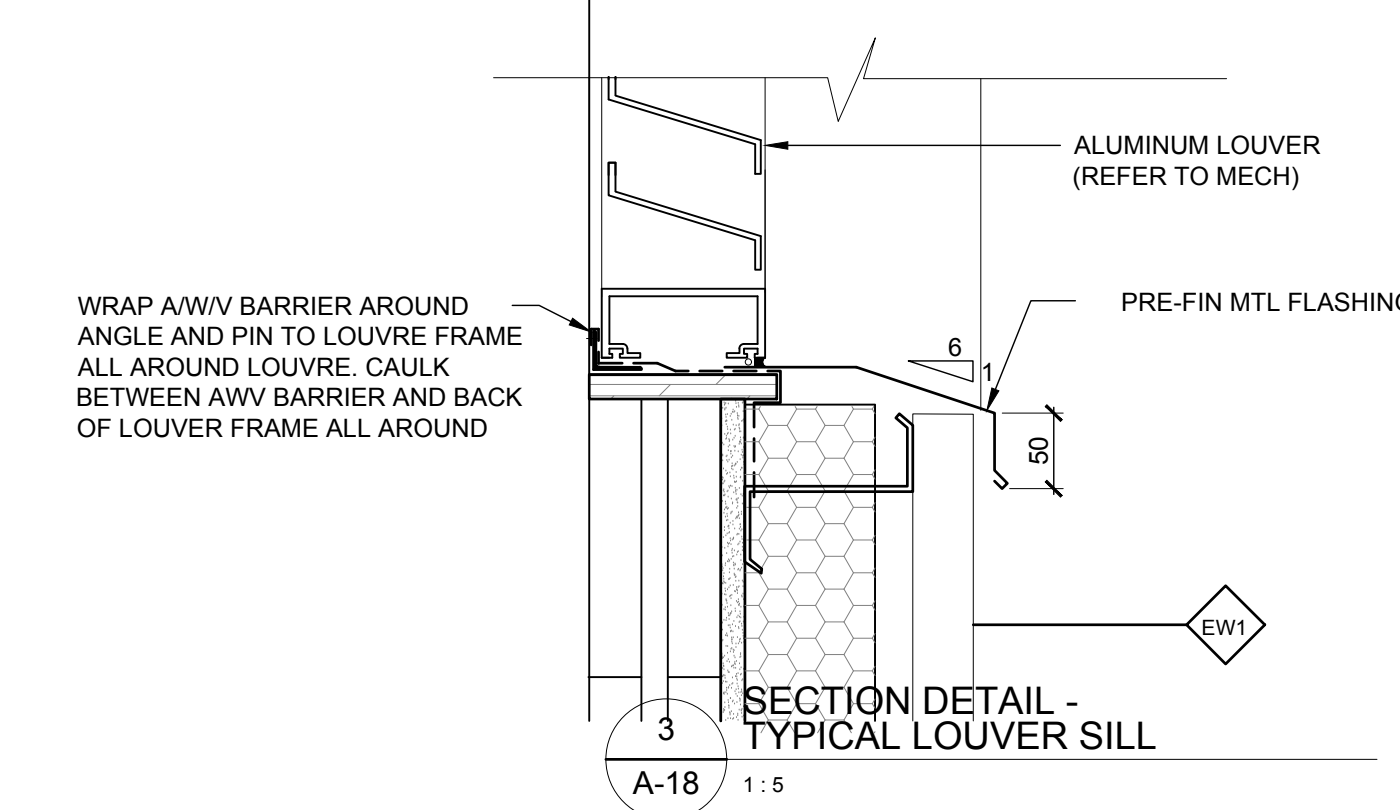
SECTION DETAIL - EXTERIOR
FIXED STEEL LADDER SUPPORT

5 A-18 1:5 REFER TO 7/A-17



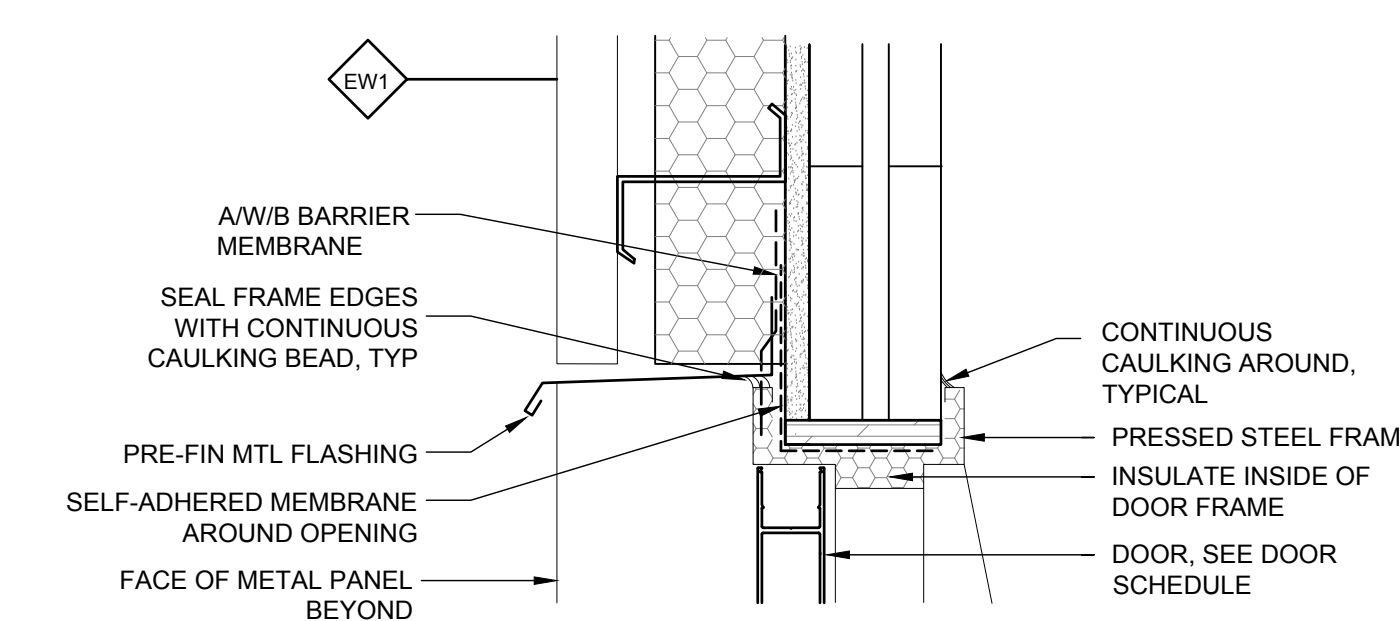
SECTION DETAIL -
TYPICAL LOUVER HEAD

4 A-18 1:5



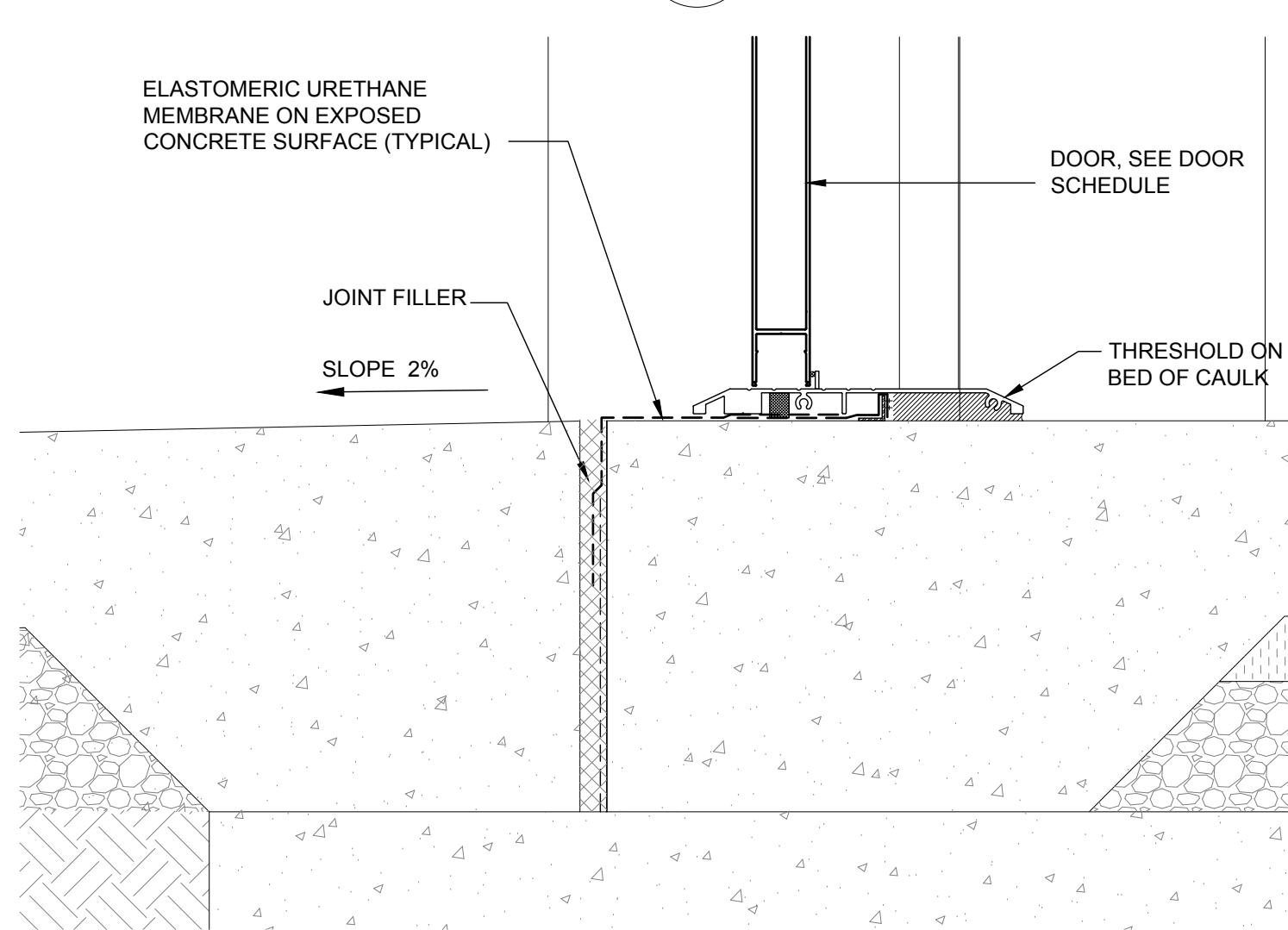
SECTION DETAIL -
TYPICAL LOUVER SILL

3 A-18 1:5



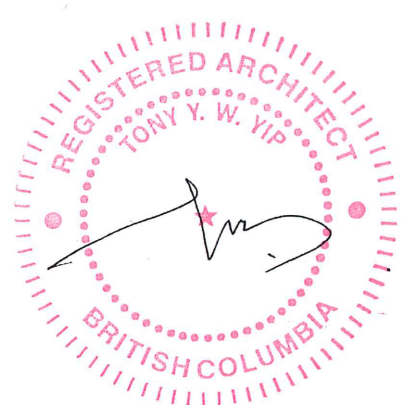
SECTION DETAIL -
TYPICAL DOOR HEAD

2 A-18 1:5



SECTION DETAIL -
TYPICAL DOOR THRESHOLD

1 A-18 1:5



Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 99% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

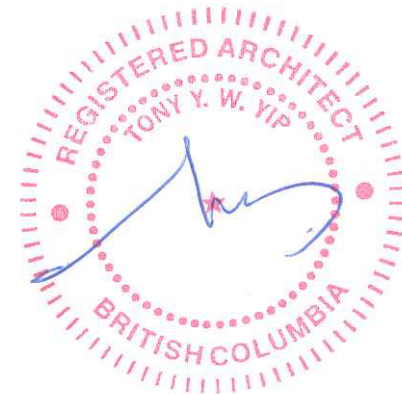
**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

Consultant Signature Only

Designed by/Concept par
T.Y.
Drawn by/Dessiné par
S.K.
PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PAUL PREETIPAL
Drawing title/Titre du dessin

PLAN/SECTION DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.077596.001	WA18 OF 22	3



Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	2019.03.08
1	ISSUED FOR 100% CD REVIEW	2018.03.14

Project title/Titre du projet
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ATP INTEGRATION FACILITY**

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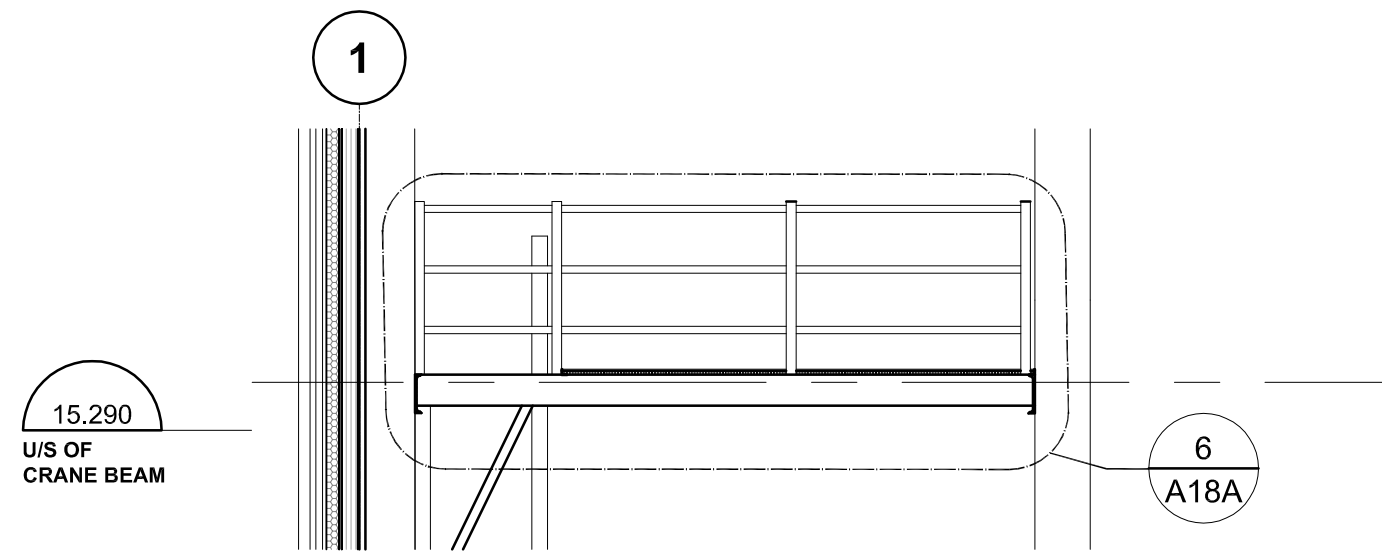
PWGSC Project Manager/Administrateur de Projets TPSCG
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSCG
PAUL PREETIPAL

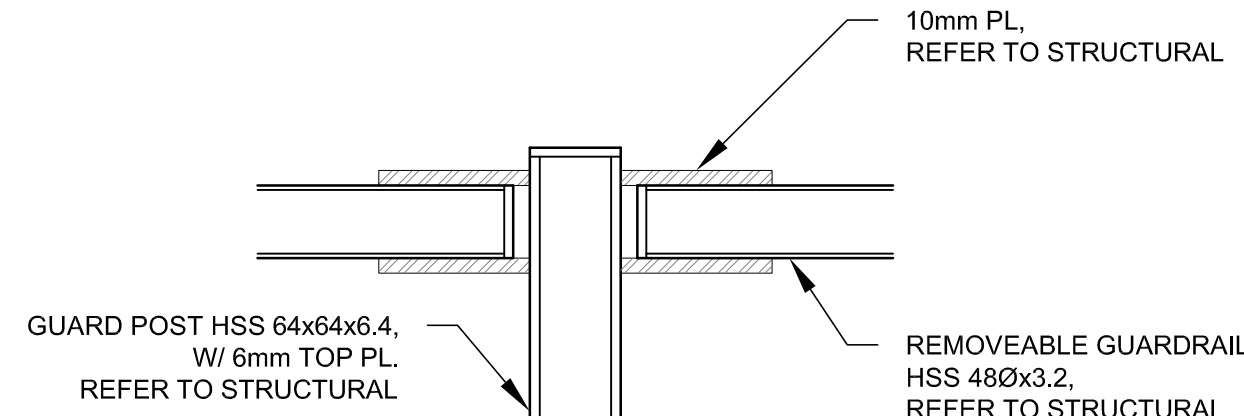
Drawing title/Titre du dessin

MISCELLANEOUS DETAILS

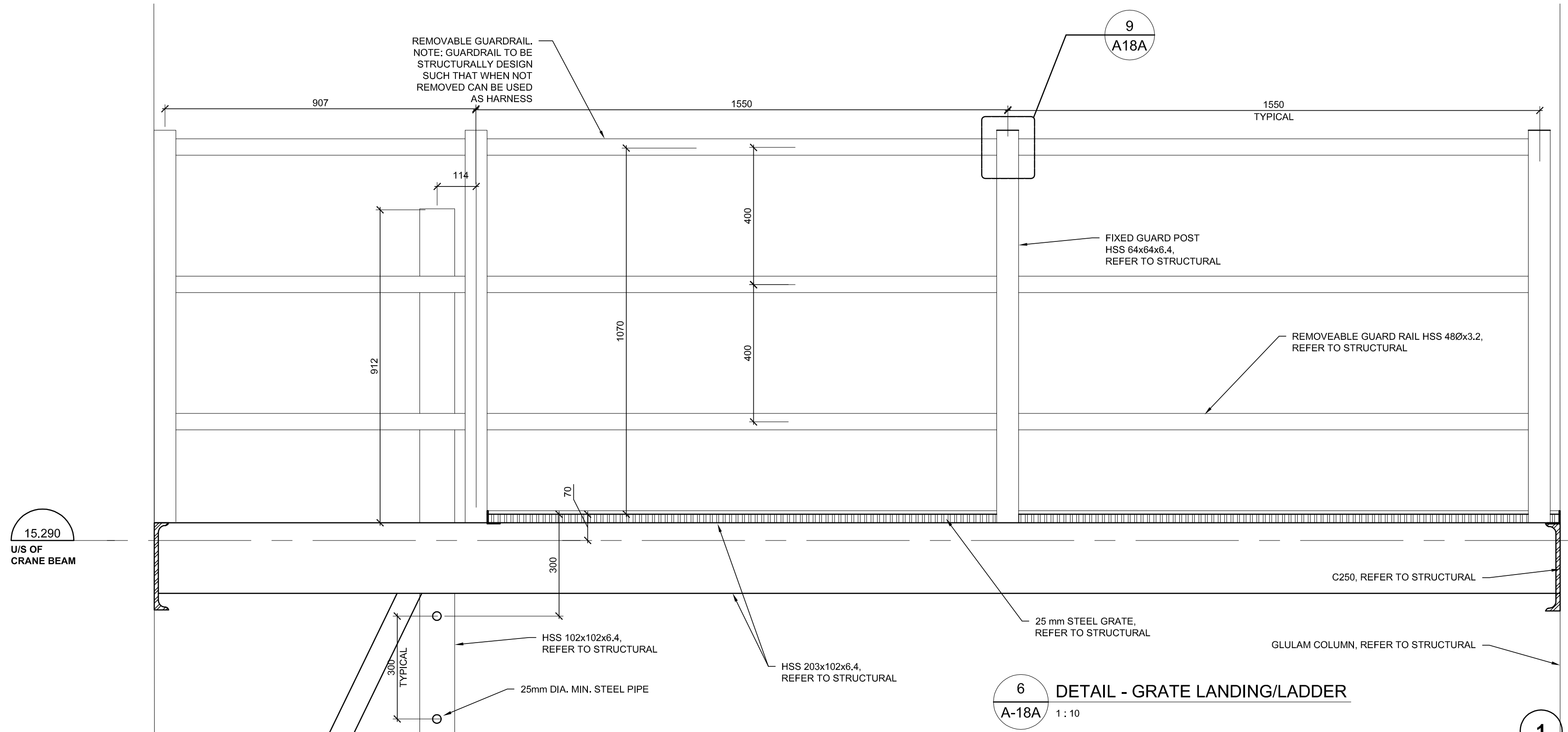
Project No./No. du projet R.077596.001	Sheet/Fauille WA18A OF 22	Revision no./ Révision no. 2
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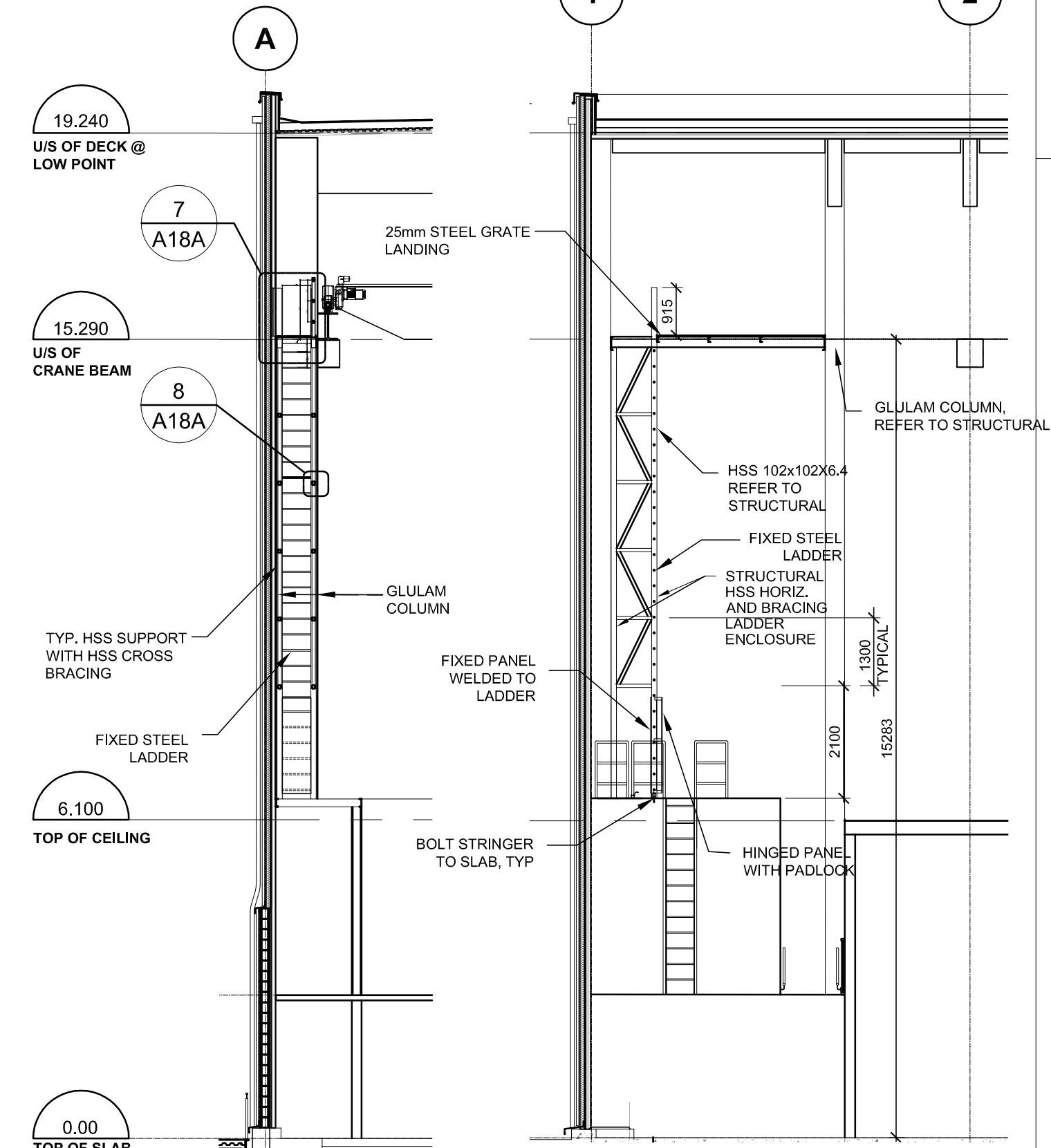
5 SECTION/ELEVATION/LADDER
A-18A 1:50



9 TYPICAL GUARDRAIL TO GUARDPOST CONNECTION
A-18A 1:50

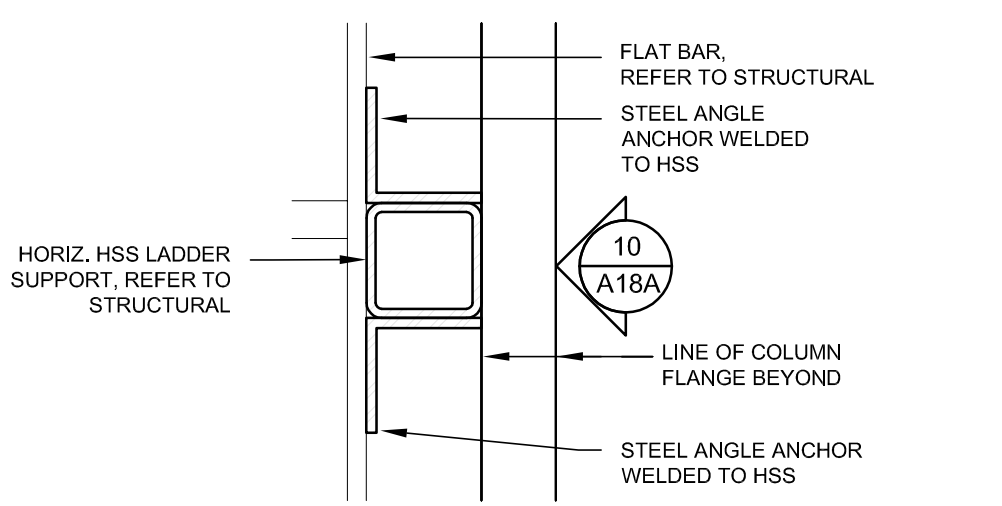


6 DETAIL - GRATE LANDING/LADDER
A-18A 1:10

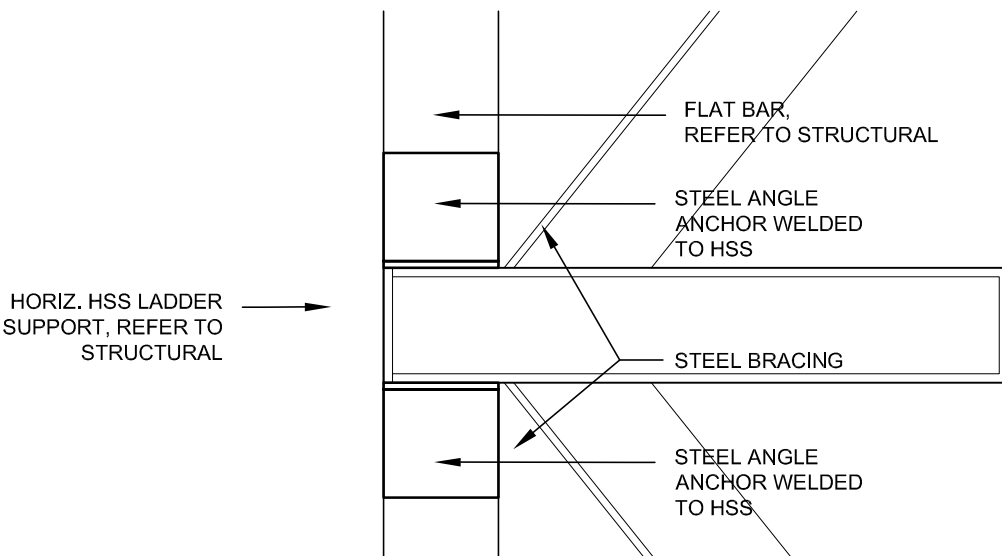


4 SECTION/ELEVATION
A-18A 1:100

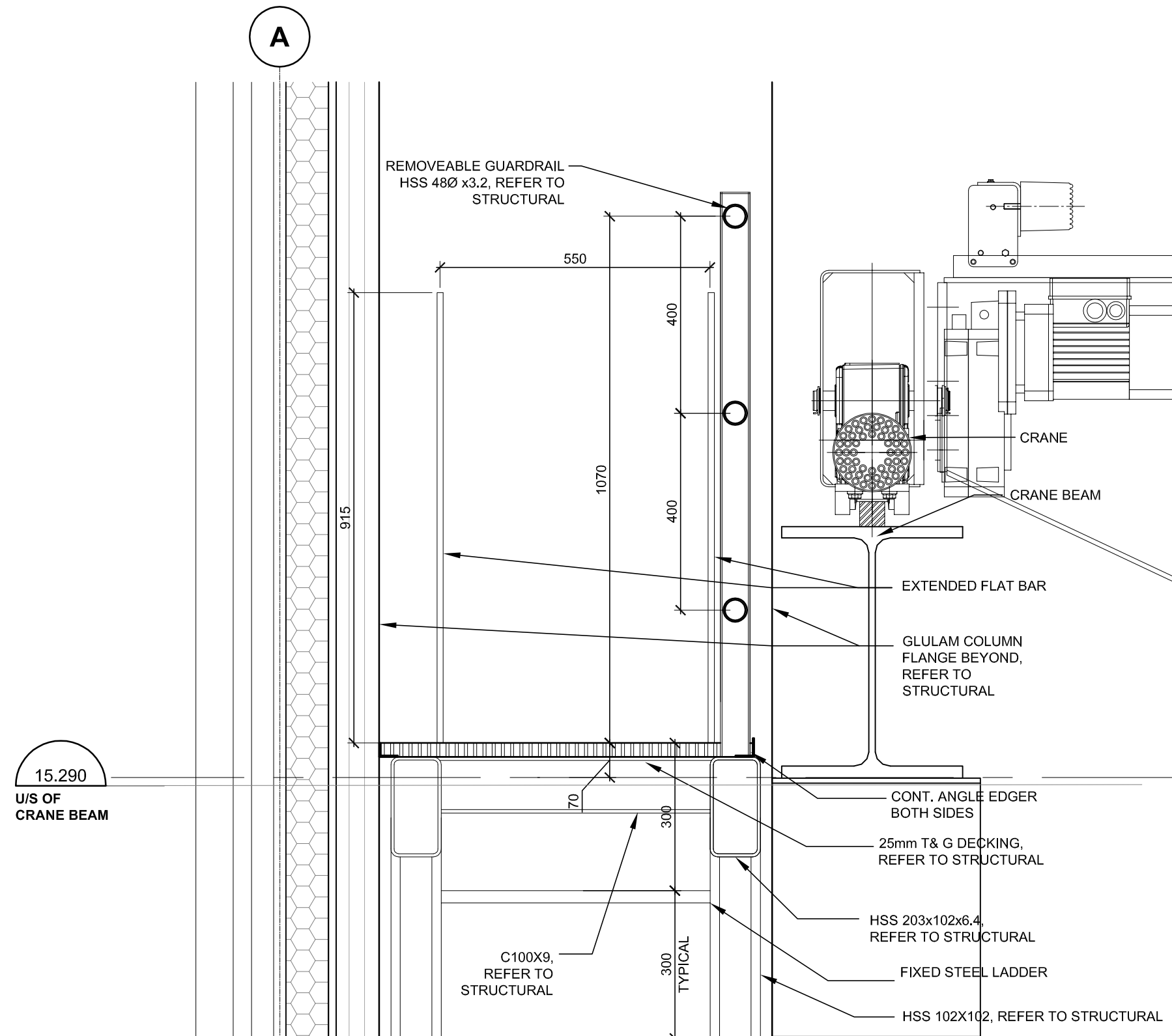
3 SECTION/ELEVATION
A-18A 1:100



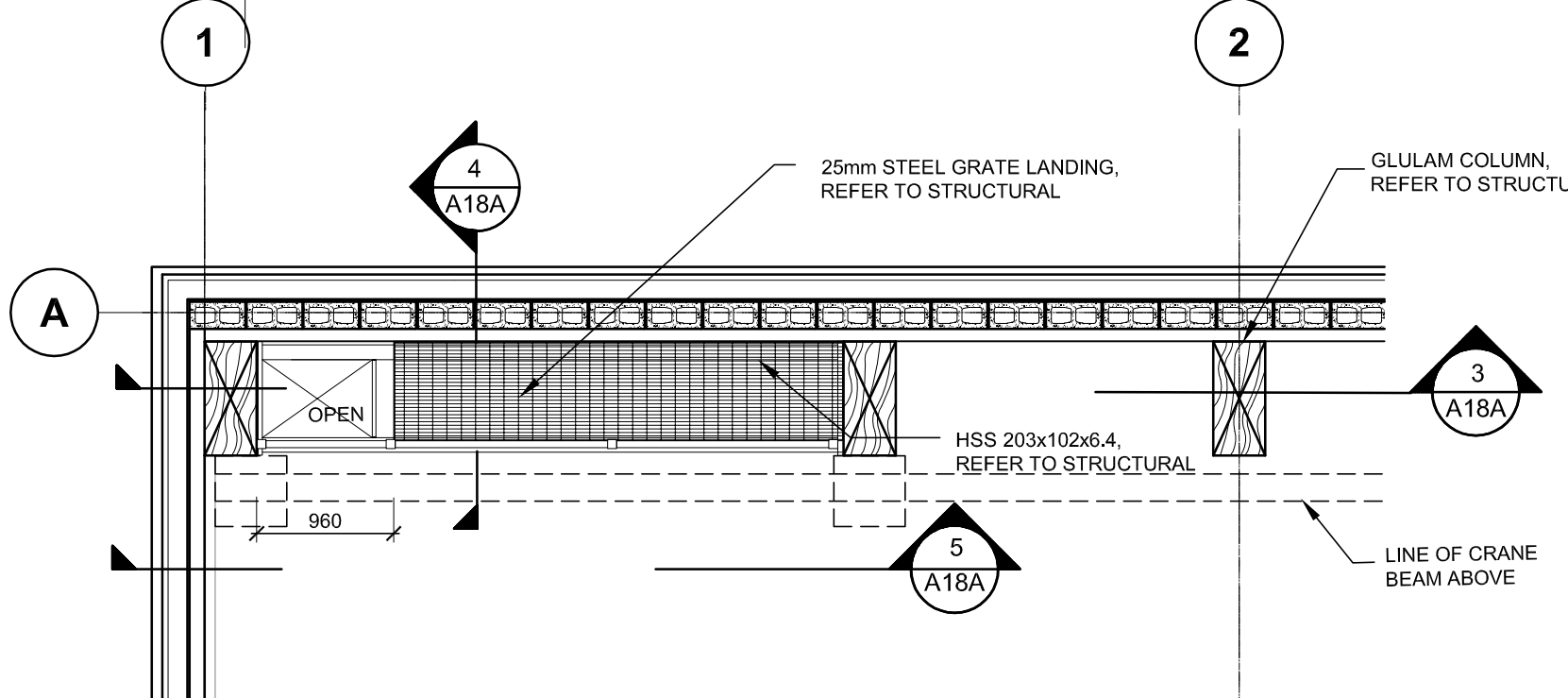
8 SECTION DETAIL - LADDER ANCHOR
A-18A 1:10



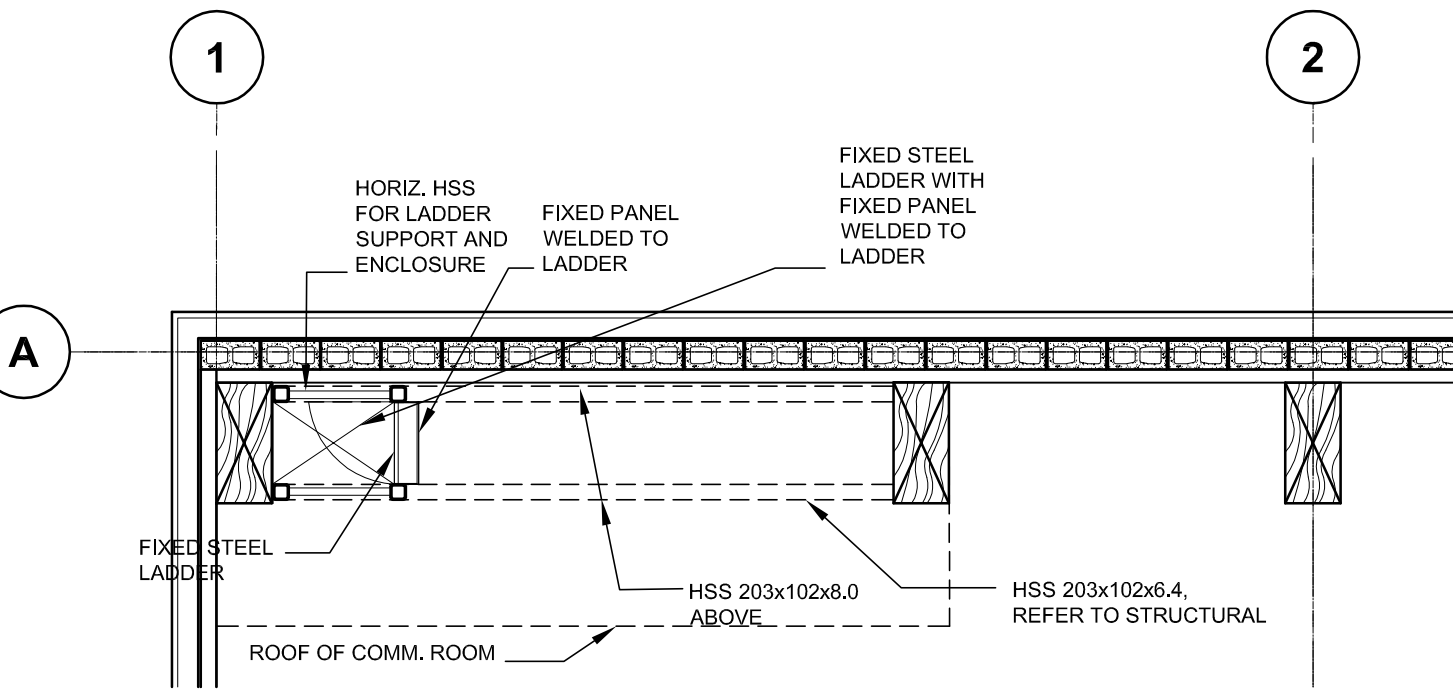
10 SECTION DETAIL - LADDER ANCHOR
A-18A 1:10



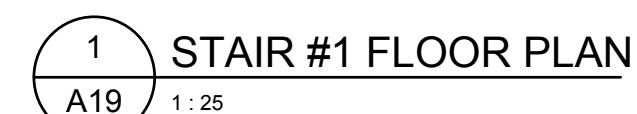
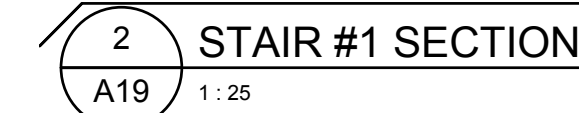
7 DETAIL - GRATE LANDING/LADDER
A-18A 1:10



2 PARTIAL FLOOR PLAN -
LADDER @ LANDING LEVEL
A-18A 1:50 REF DWG A06



1 PARTIAL FLOOR PLAN -
LADDER @ 6.1M LEVEL
A-18A 1:50 REF DWG A06

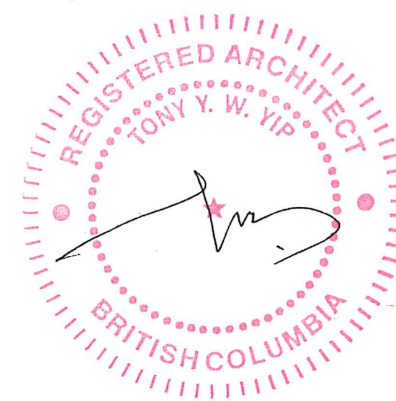


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STAIRS

R.077596.001	WA19 OF 22	no. 3
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Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
2	ISSUED FOR 100% CD REVIEW	2018.03.14
1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

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ATP INTEGRATION FACILITY**

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Designed by/Concept par
T.Y.

Drawn by/Dessiné par
S.K.

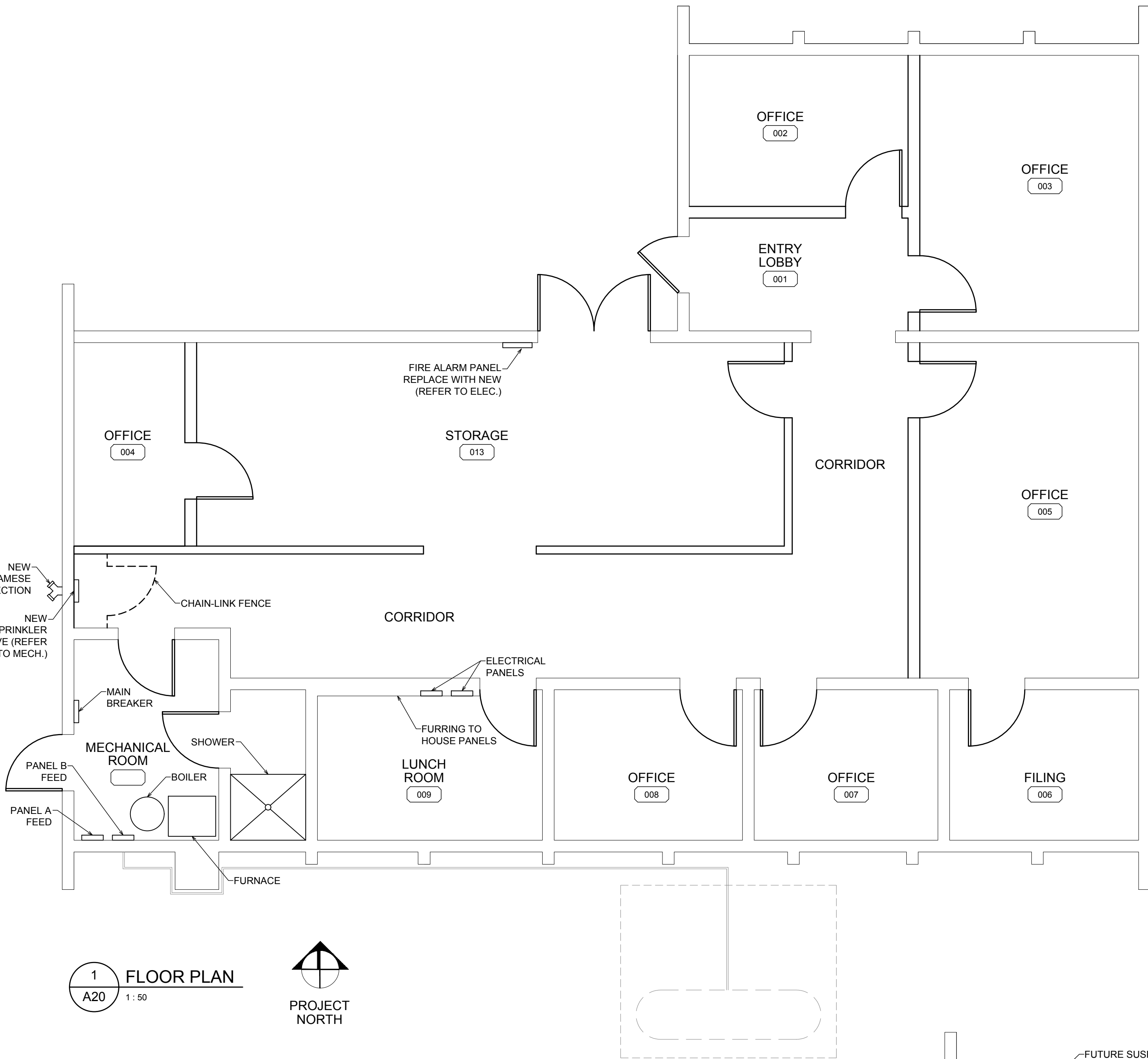
PWGSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PAUL PREETIPAL

Drawing title/Titre du dessin

EXISTING SITE SERVICES BUILDING

Project No./No. du projet R.077596.001	Sheet/ Feuille WA20 OF 22	Revision no./ La Révision no. 3
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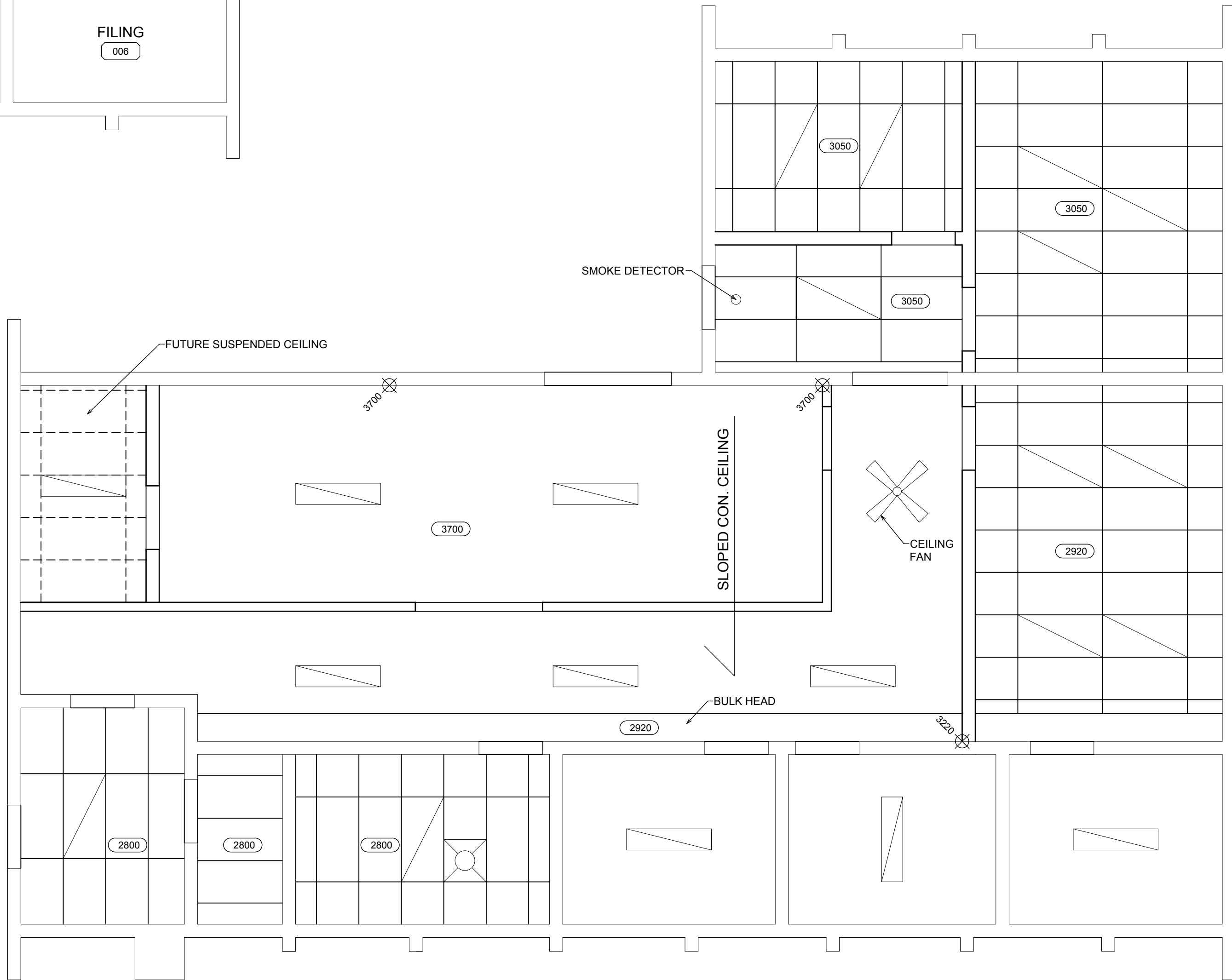


1 FLOOR PLAN
A20 1:50



CONSTRUCTION NOTES FOR SITE SERVICES BUILDING:

- Paint all new sprinkler pipes that are installed under exposed concrete ceiling. Paint all exposed ceiling after installation.
- All new sprinkler pipes to be install in ceiling space for rooms where there is t-bar ceiling. Re and Re existing t-bar ceiling for installation. Replace damaged ceiling tiles, if any, with new ceiling tiles after construction.
- Provide new openings in walls for sprinkler pipes as needed. Caulk all wall openings on both sides of walls after installation. Make good and re-paint wall around the openings for all exposed pipe locations.
- Provide new opening at the footing wall for installation of sprinkler main.
- Provide slab opening for sprinkler main. Make good slab after installation.
- Provide new opening for siamese connection at the outside wall. Provide non-shrink grout and caulk around pipes. Paint disturbed wall area.
- Provide new blocking for installation of new fire alarm panel. Re-paint wall and blocking after installation.



2 REFLECTED CEILING PLAN
A20 1:50





Revision/	Description/Description	Date/Date
3	ISSUED FOR TENDER	2019.03.08
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1	ISSUED FOR 90% CD REVIEW	2018.02.22

Project title/Titre du projet
**5071 WEST SAANICH ROAD
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ASTRONOMY AND ASTROPHYSICS
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S.K.

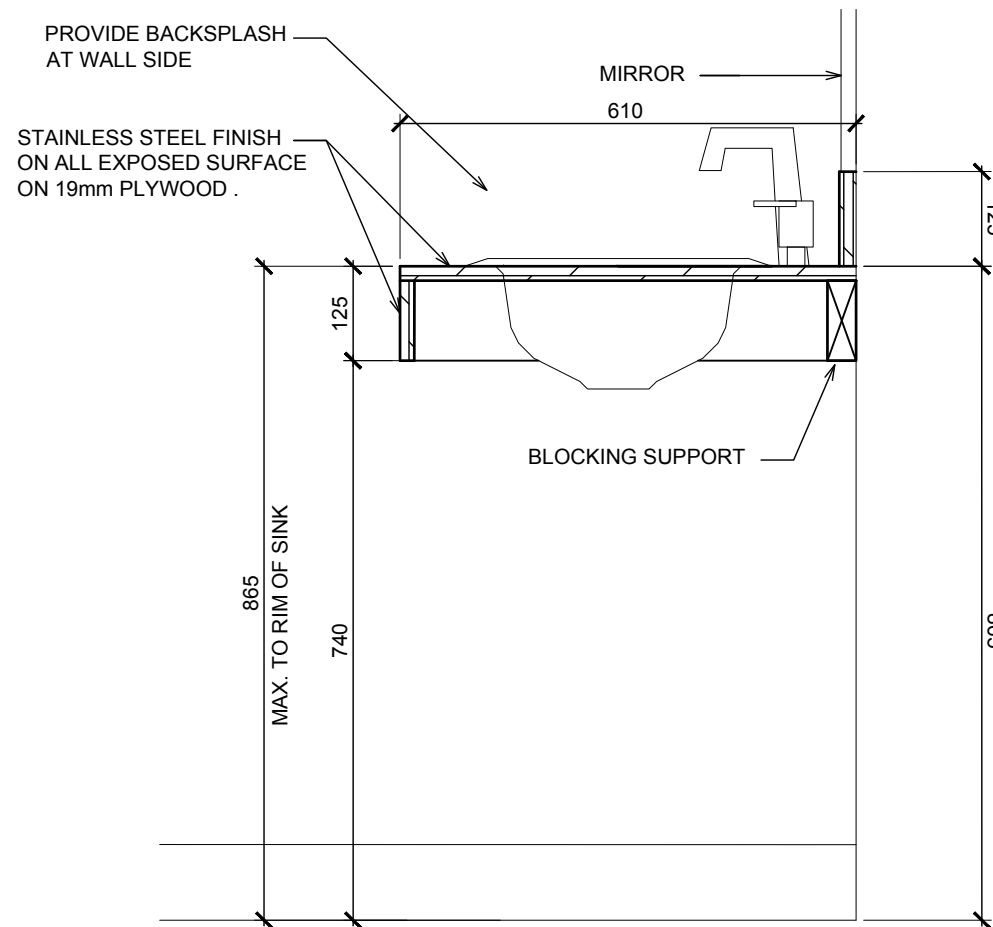
PWGSC Project Manager/Administrateur de Projets TPSC
PATRICK TRUONG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSC
PAUL PREETIPAL

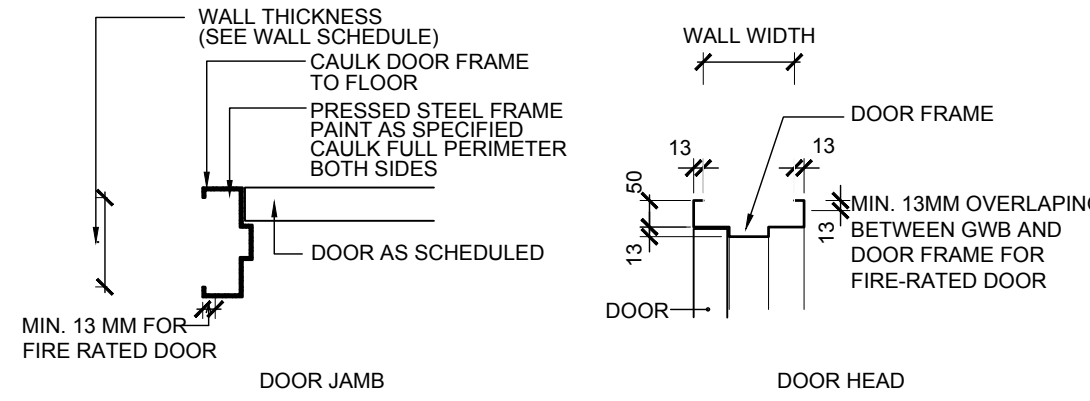
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**INTERIOR ELEVATION/
DOOR SCHEDULE**

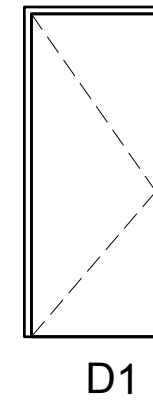
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.077596.001	WA21 OF 22	3



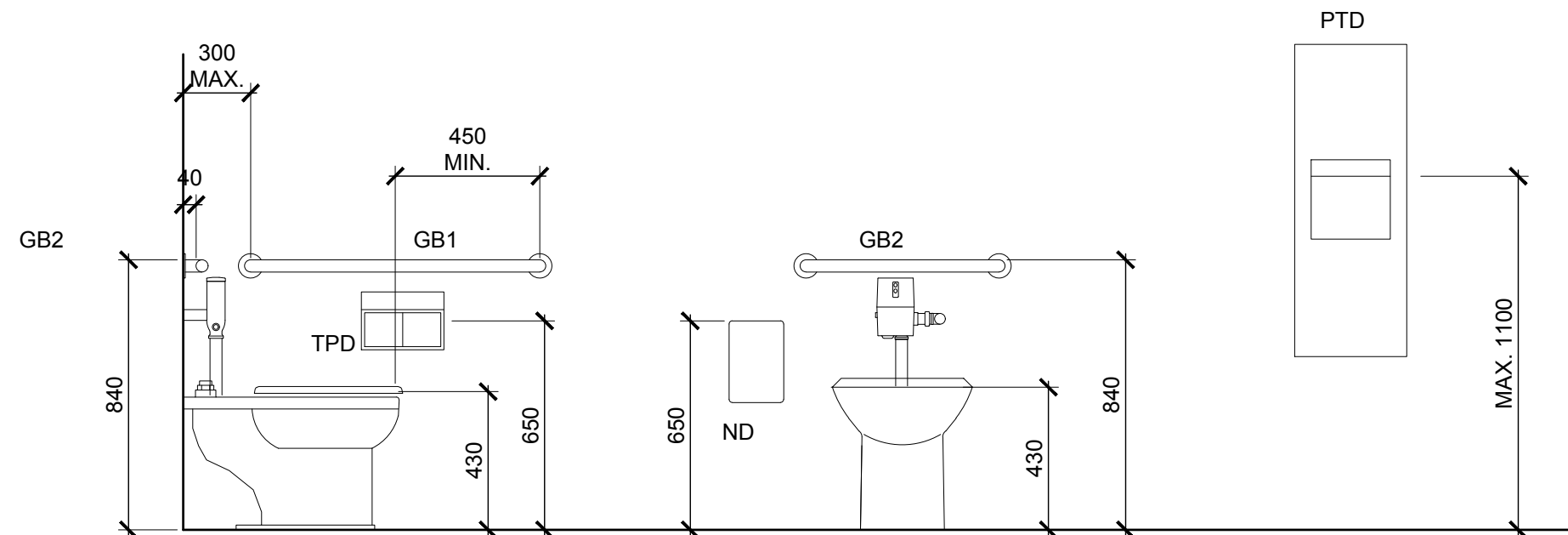
9 TYPICAL VANITY DETAIL
A21 1:10



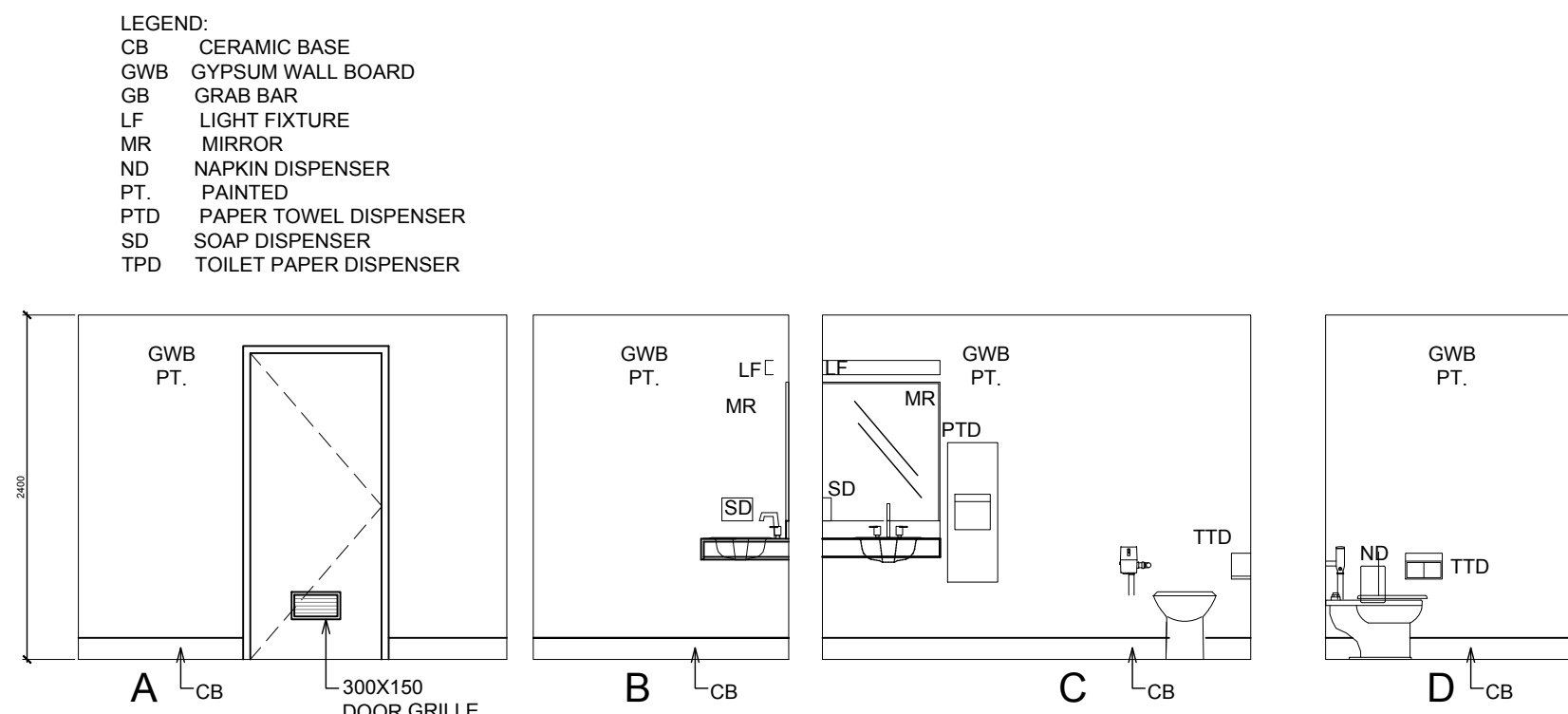
8 TYPICAL INTERIOR DOOR JAMB/HEAD
A21 1:50



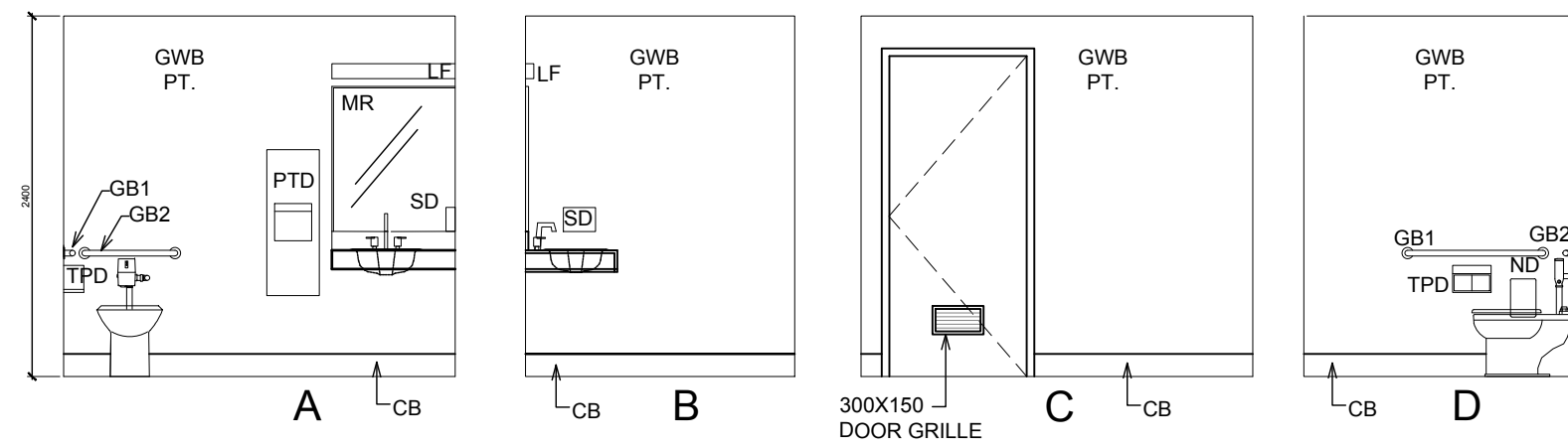
7 TYPICAL DOOR ELEVATION
A21 1:50



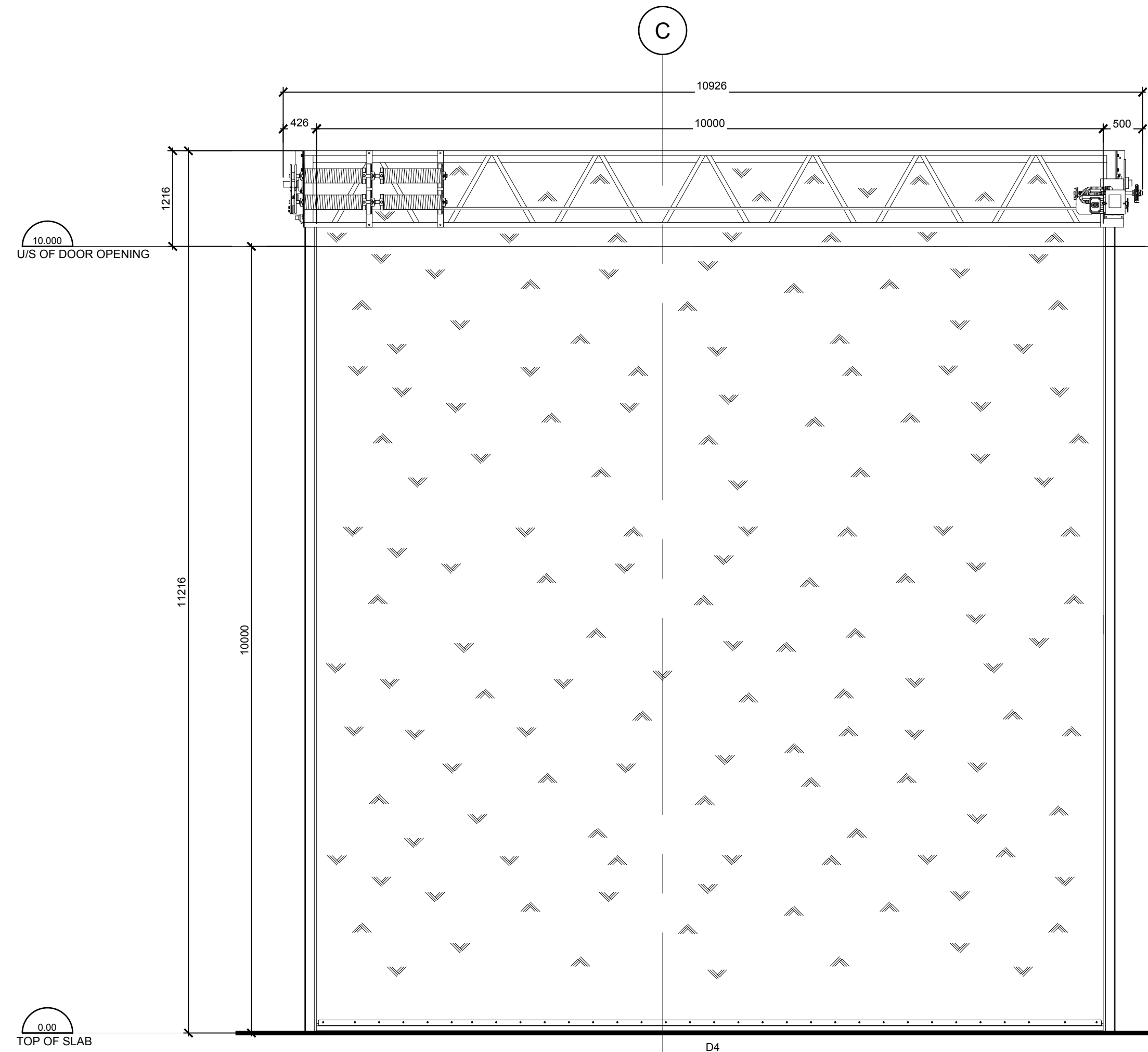
6 FIXTURES ELEVATION
A21 1:50



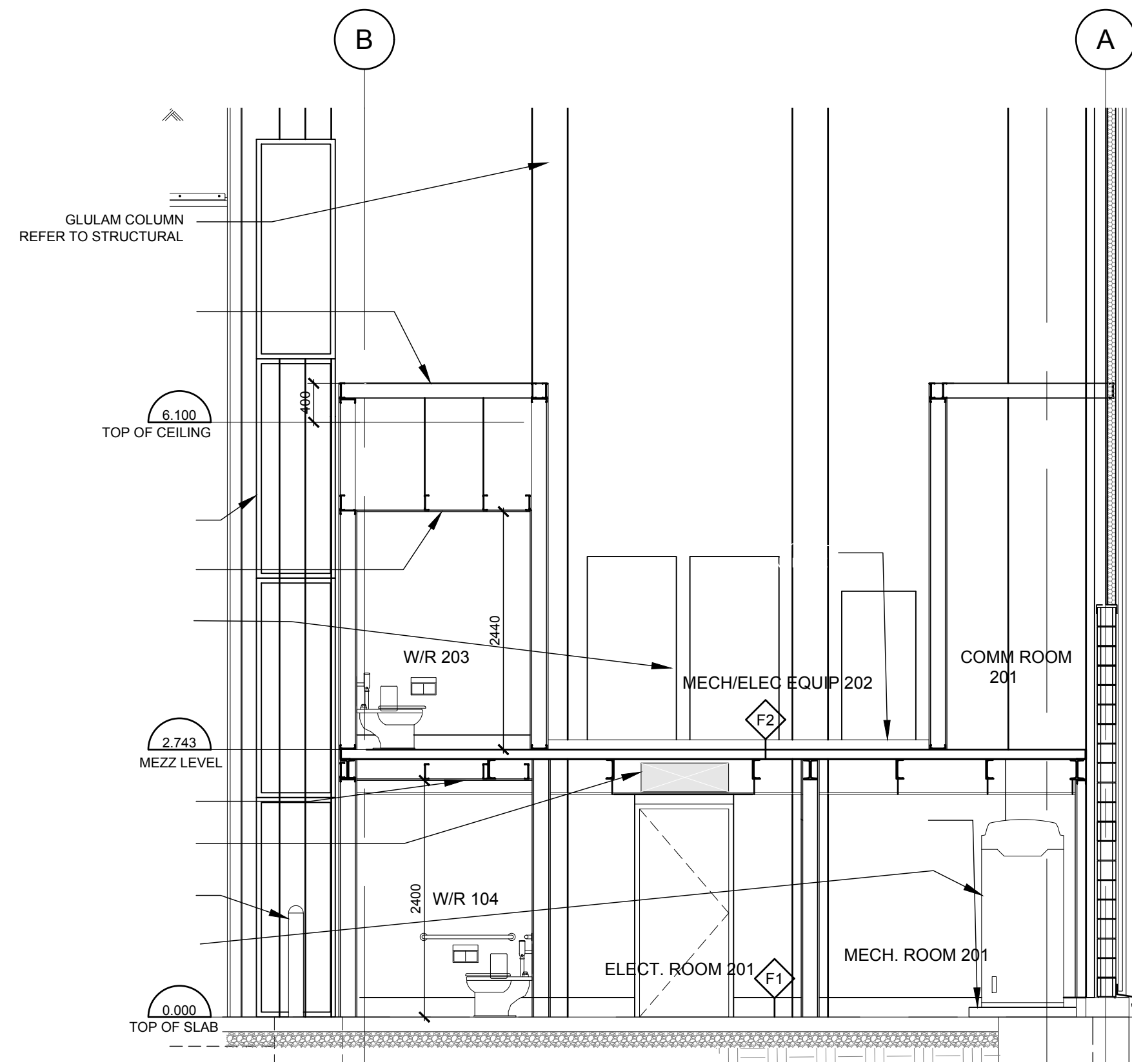
4 UNISEX W/C INTERIOR ELEVATION
A21 1:50



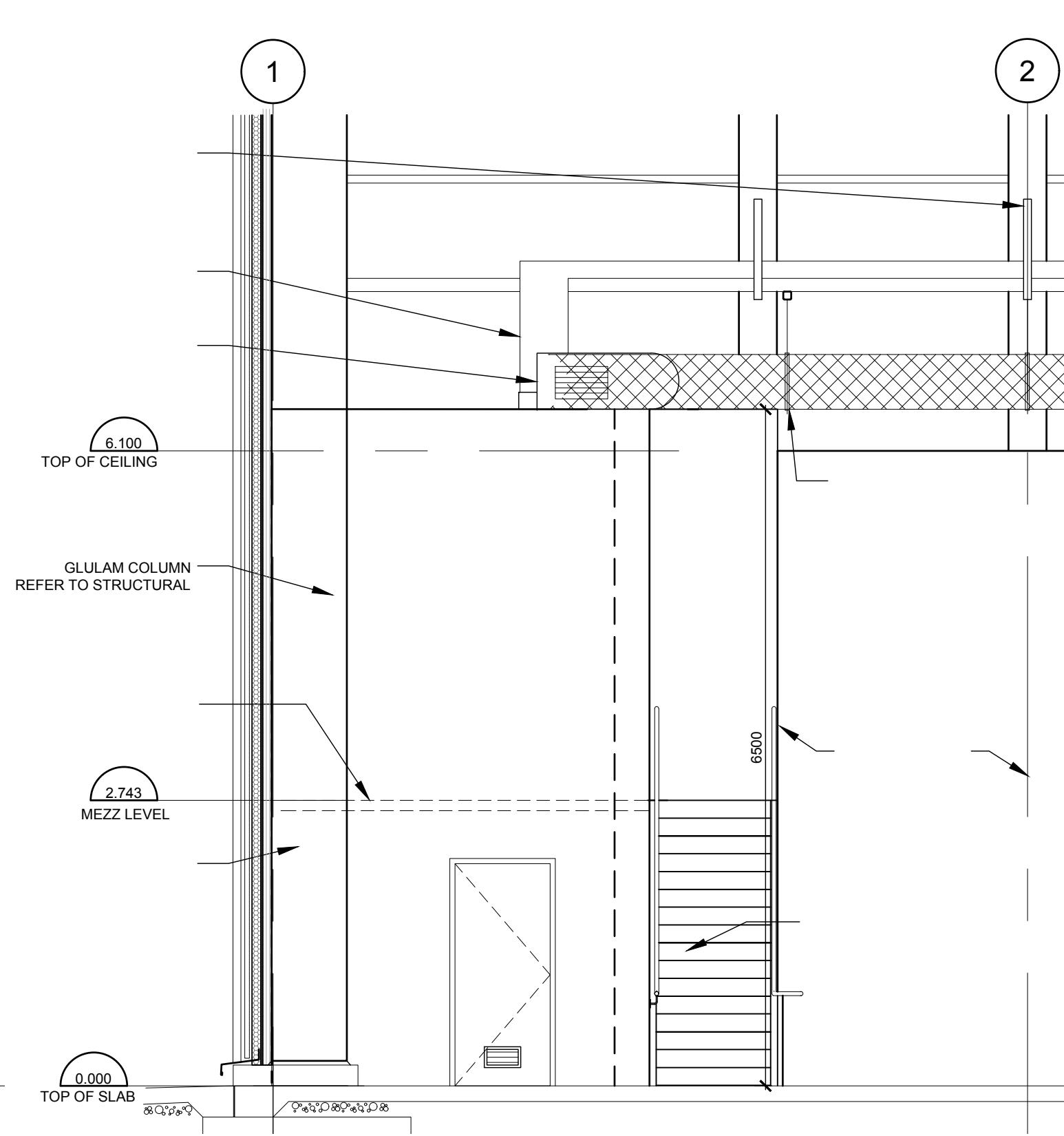
3 UNIVERSAL W/C INTERIOR ELEVATION
A21 1:50



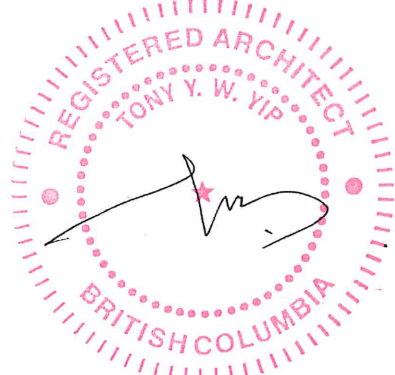
5 OVERHEAD DOOR INTERIOR ELEVATION
A21 1:50



2 SECTION / INTERIOR ELEVATION
A21 1:50



1 SECTION / INTERIOR ELEVATION
A21 1:50



2	ISSUED FOR TENDER	2019.03.08
1	ISSUED FOR 100% CD REVIEW	2018.03.14
Revision/ Révision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
**5071 WEST SAANICH ROAD
VICTORIA, BC, CANADA**

**NRC HERZBERG
ASTRONOMY AND ASTROPHYSICS
ATP INTEGRATION FACILITY**

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PAUL PRETIPAL

Drawing title/Titre du dessin

RENDERINGS

Project No./No. du projet R.077596.001	Sheet/ Feuille WA22 OF 22	Revision no./ La Révision no. 2
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1 VIEW FROM OBSERVATORY ROAD ROAD
A21 NTS



2 VIEW FROM NORTH EAST CORNER
A21 NTS



3 VIEW FROM EXISTING P.M.S. PARKING LOT
A21 NTS