

UMA Engineering Ltd.
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May 28, 2008

File Name: DYE-M (3.6)

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Dear Phyllis:

Re: Water Use License 1BR-DYE0409

UMA Engineering Ltd. is submitting the following proposed modifications as per Section H.1 of the existing license. The notification of modifications is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

The following modifications are being proposed as part of the clean up of the DYE-M, Cape Dyer DEW Line site.

- 1.) The camp will increase in size to a maximum of 165 people. Although the number of people at the camp will significantly increase, based on the water usage to date, the currently licensed quantity of water at DYE-M will be sufficient and there is no need at this time to apply for an increase in water usage. In addition, the two cells of the camp sewage lagoon are being expanded to support the increase in camp size. A figure indicating the limits of the expansion was provided by the contractor and is attached for reference.
- 2.) Nine additional buildings at the Lower Site are to be demolished, including the air terminal building, four warehouses, two atwell dormitories, the heated vehicle storage building and the garage. However, the demolition of module train C and the walkway from module train B to module train C identified for demolition in the original submission will be cancelled and the buildings will remain.

The demolition work will include excavation and disposal/treatment of contaminated soils below and near the additional facilities to be excavated and the on-site transport, handling, classification, consolidation and containerization of approximately 400 full or partially full barrels of liquid waste stored within the heated vehicle storage building.

The cancellation of the demolition of module train C and the walkway has an estimated volume of 462 m³ of non-hazardous debris and 610 m³ of PAP debris which will result in a corresponding reduction in the airspace requirement for the Upper Site Non-Hazardous Waste Landfill for the on-site disposal of non-hazardous debris and requirement for barge and intermediate containers for the off-site shipment of PAP debris. The demolition of the additional buildings at the lower site has an estimated debris volume of 2446 m³ of non-hazardous debris and 947 m³ of PAP debris resulting in a corresponding increased requirement for additional airspace within the Lower Site Non-Hazardous Waste Landfill for the on-site disposal of non-hazardous debris and for additional barge and intermediate containers for the off-site shipment of PAP debris.

Redesign of the Lower Site Non-Hazardous Waste Landfill for additional airspace capacity will be deferred until a significant portion of the landfill/buried debris excavation has been completed at the Lower Site

area. The Lower Site NHWLF airspace requirement is largely dependent on the actual quantities of non-hazardous wastes generated by landfill excavation versus the airspace design volume of the facility. Therefore, the redesign for expansion of the facility is being deferred until a later date.

The requirement for additional barge and intermediate containers will be partially offset by the cancellation of the demolition of module train C and the walkway. The requirement for additional barge and intermediate containers to address the remaining volume requirement will be deferred until additional demolition activity has been completed. Historically, the DLCU clean up of sites completed to date have had unused barge and intermediate containers remaining at project completion.

- 3.) On July 9, 2007 a Government of Nunavut Spill report was filed by DCC relating to the release of approximately 52,000 litres of hydrocarbon impacted water from Tank W22G at the DYE-M site. The release of hydrocarbon impacted water and diesel fuel was discharged within the bermed containment and flowed over into the surrounding area, impacting an estimated area of 2,200 m².

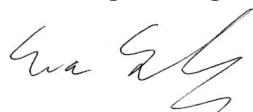
A subsurface investigation was subsequently carried out by the Owner to determine the extent of soil impacts resulting from the release. Results from the investigation identified significant petroleum hydrocarbon concentrations in the soil surrounding the containment and adjacent areas. The primary delineated contaminated soil limits requiring remedial excavation, as determined by the 2007 investigation results, are presented in the attached Figure 1.

The excavation of hydrocarbon impacted soils will be completed as early as possible in the 2008 construction season in order to facilitate complete excavation of hydrocarbon impacted soil and minimize further migration of hydrocarbon impacts to the surrounding area. Following contaminated soil excavation and confirmatory sampling, granular fill will be placed from any remaining containment berm into base of excavation. The excavation will be backfilled with Type 3 granular fill, compacted and graded to promote positive drainage and prevent ponding within the excavation area. Any and all free product encountered during contaminated soil excavation will be collected in accordance with hazardous materials collection practises. All water will be tested from within the excavations prior to discharge and will conform to the wastewater discharge criteria.

We trust the information provided is sufficient to meet the requirements of Section H.1 of the water use license. Please feel free to contact the undersigned if you have any questions or comments.

Sincerely,

UMA Engineering Ltd.

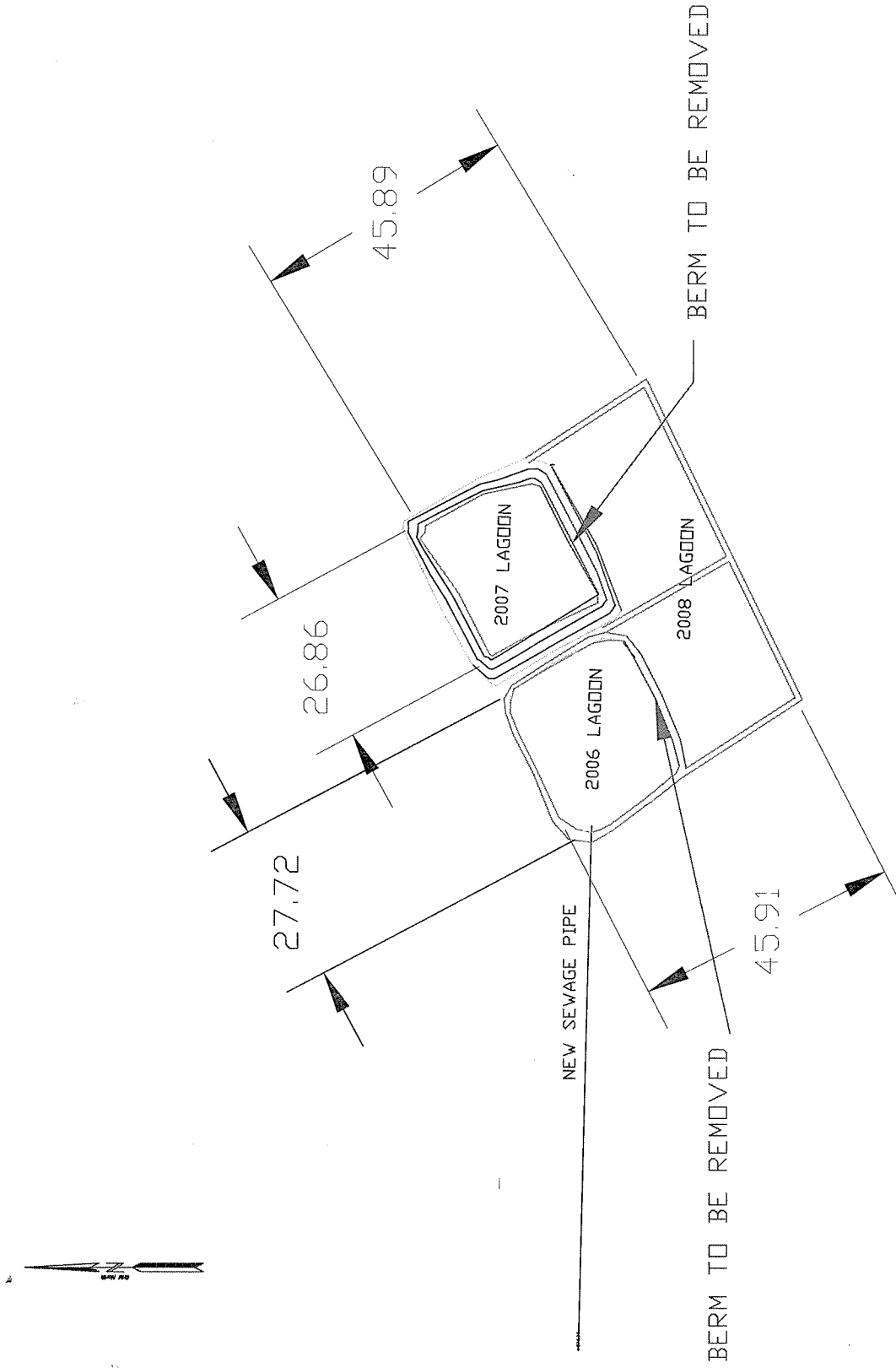


Eva Schulz, P. Ag.
Environmental Scientist
Eva.Schulz@uma.aecom.com

EMS

Encl. Sewage Lagoon Figure; Demolition Drawings; W22G Figures

cc: Douglas Craig, DCC



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DEFENSE
CONSTRUCTION
CANADA

DESIGN	SINC	PROJ DNC	DK
DRAWN	DW	CONST. MGR	DW
CHECK		INS-1-INS1 INS1-INS2	
APPROVED		APPROVED	

DRAWING TITLE:
**NEW SEWAGE
LAGOON-2008**

SCALE	NTS
CLIENT DRAWING NUMBER	0000
SAC-CAPITAL DRAWING NUMBER	REV. 00

Headquarters
Quartier général

General Notes:

- ALL STRUCTURES DESIGNATED FOR DEMOLITION TO BE DEMOLISHED TO TOP OF CONCRETE FOUNDATIONS UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. THESE INCLUDE ALL BUILDINGS, STRUCTURES, ELECTRICAL POWER CABLES, FUEL STORAGE TANKS AND PIPELINES NOT SCHEDULED FOR DEMOLITION.
- PIPELINES AND ANCILLARY EQUIPMENT TO BE REMOVED TO INCLUDE ALL ASSOCIATED PIPE SUPPORTS AND PIPELINE MARKERS.
- PROVIDE REGRADING AROUND ALL CONCRETE THAT IS DESIGNATED TO REMAIN, AS PER TYPICAL DETAIL ON THIS DRAWING, UNLESS NOTED OTHERWISE.



Legend:

- TO BE DEMOLISHED
- BODY OF WATER
- UTILITY POLE TO BE REMOVED
- POL LINE
- SEWAGE OUTFALL PIPE

1	08-03-14	DESIGN	REVISION No. 3	RAM
No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA AECOM HATCH

SCALE - ÉCHELLE 20 10 0 20 40 60m
PROJECT - PROJET DYE-M CAPE DYER

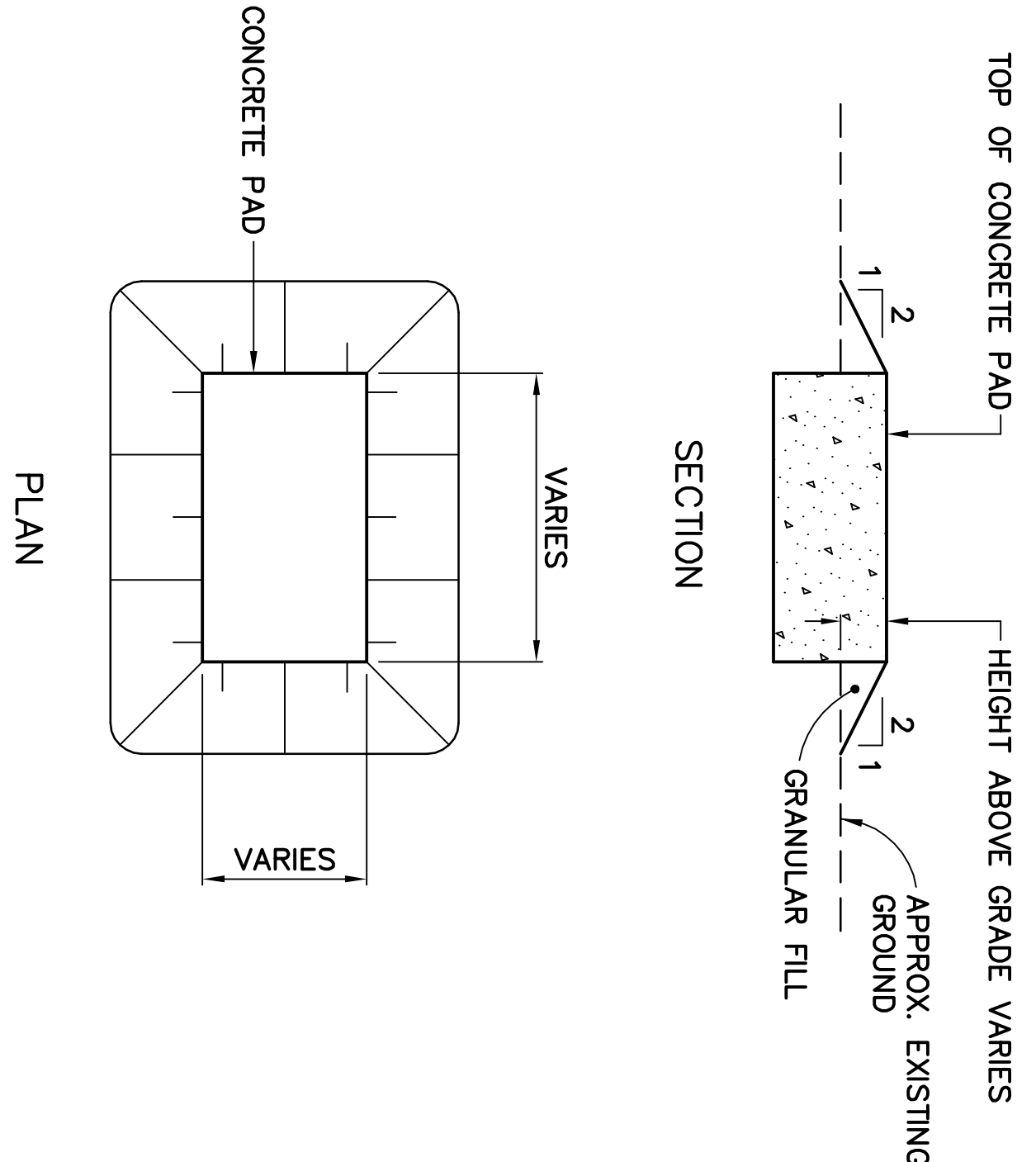
DEW LINE CLEAN UP

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TRADE - MÉTIER STRUCTURAL DATE 2003-12-16

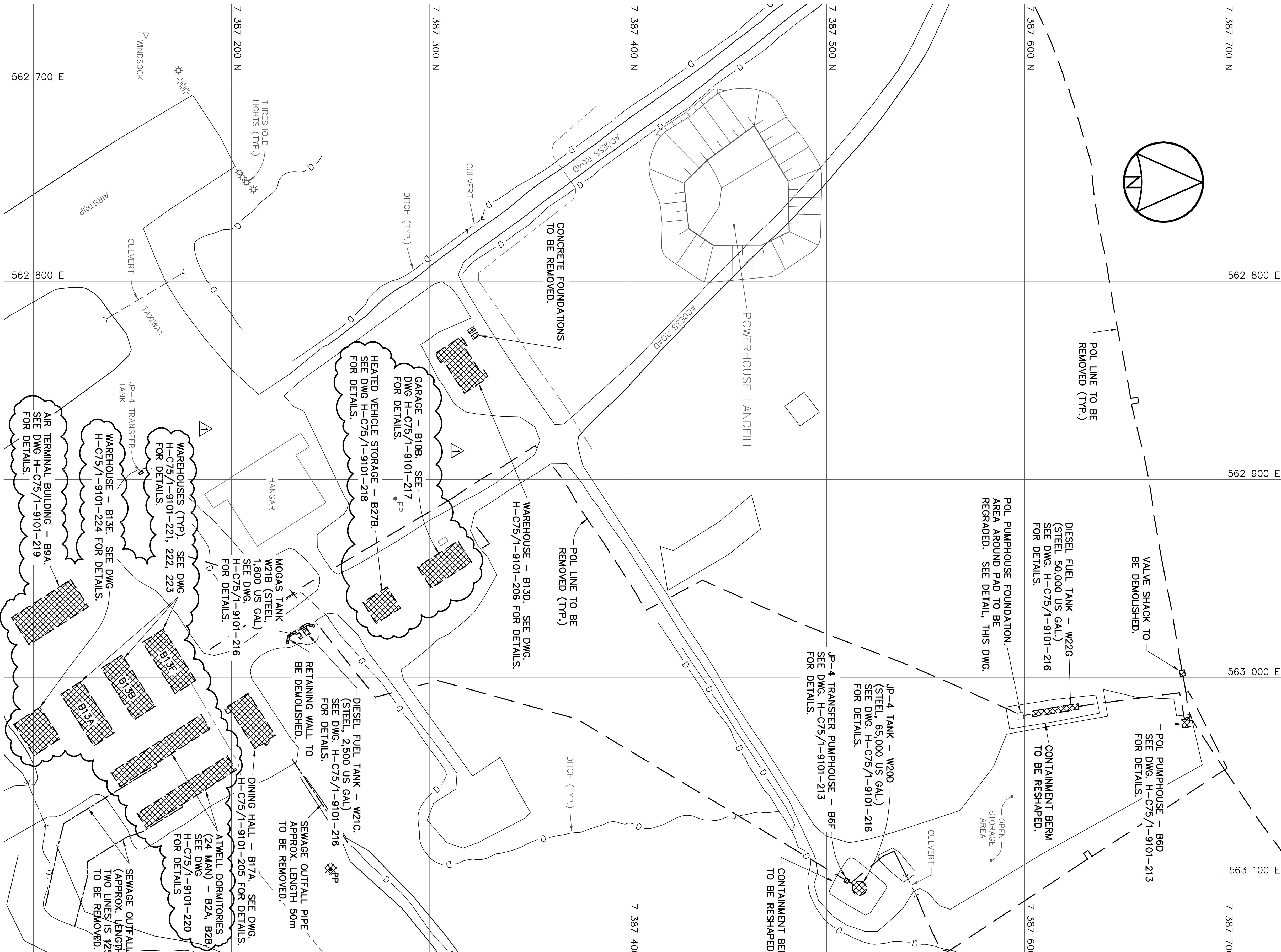
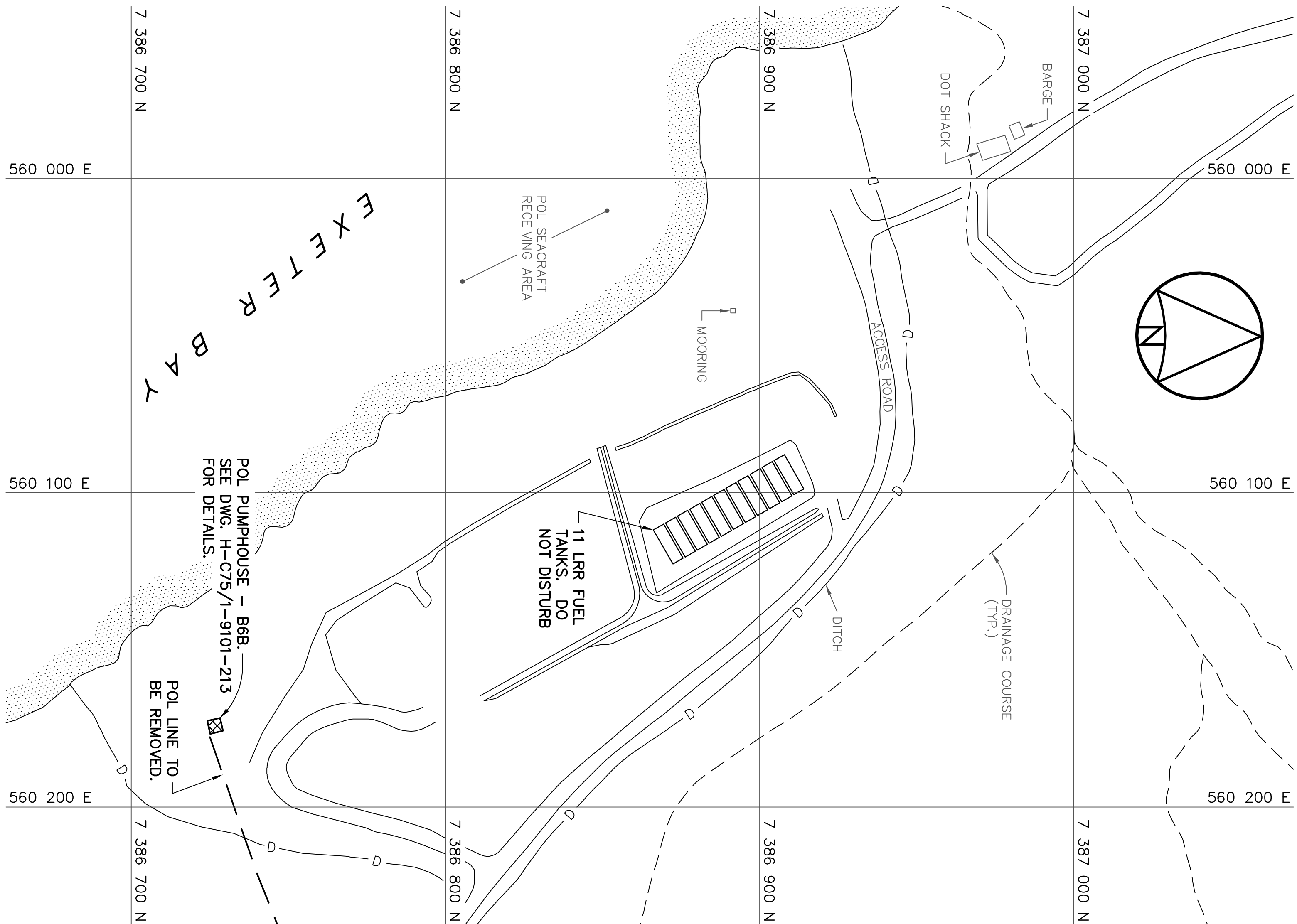
SUBJECT - SUJET
LOWER SITE
BEACH AND STATION AREAS
DEMOLITION SITE PLANS

PRODUCTION	CONCURRENCE - ASSÉNIEMENT
DESIGNED BY/par CV	DES OFF AGENT CONCEPT
DRAWN BY/par CH	SECT HD
CHECKED BY/par RM	CHER SECT
VERIFIED BY/par RM	DES MGR
COORDINATION	GEST CONCEPT
5MS	REVIEWED - REVU
DWG. NO. - DESIGN NO. H-C75/1-9101-201	



TYPICAL CONCRETE PAD REGRADING DETAIL

N.T.S.



STATION AREA

BEACH AREA

- General Notes:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN REVISION No. 3	RAM
No.	DATE	REVISION	REVISION
		APPR.	

DRAFT

UMA | AECOM | HATCH

SCALE - ÉCHELLE 1 0.5 0 1 2 3m
PROJECT - PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP
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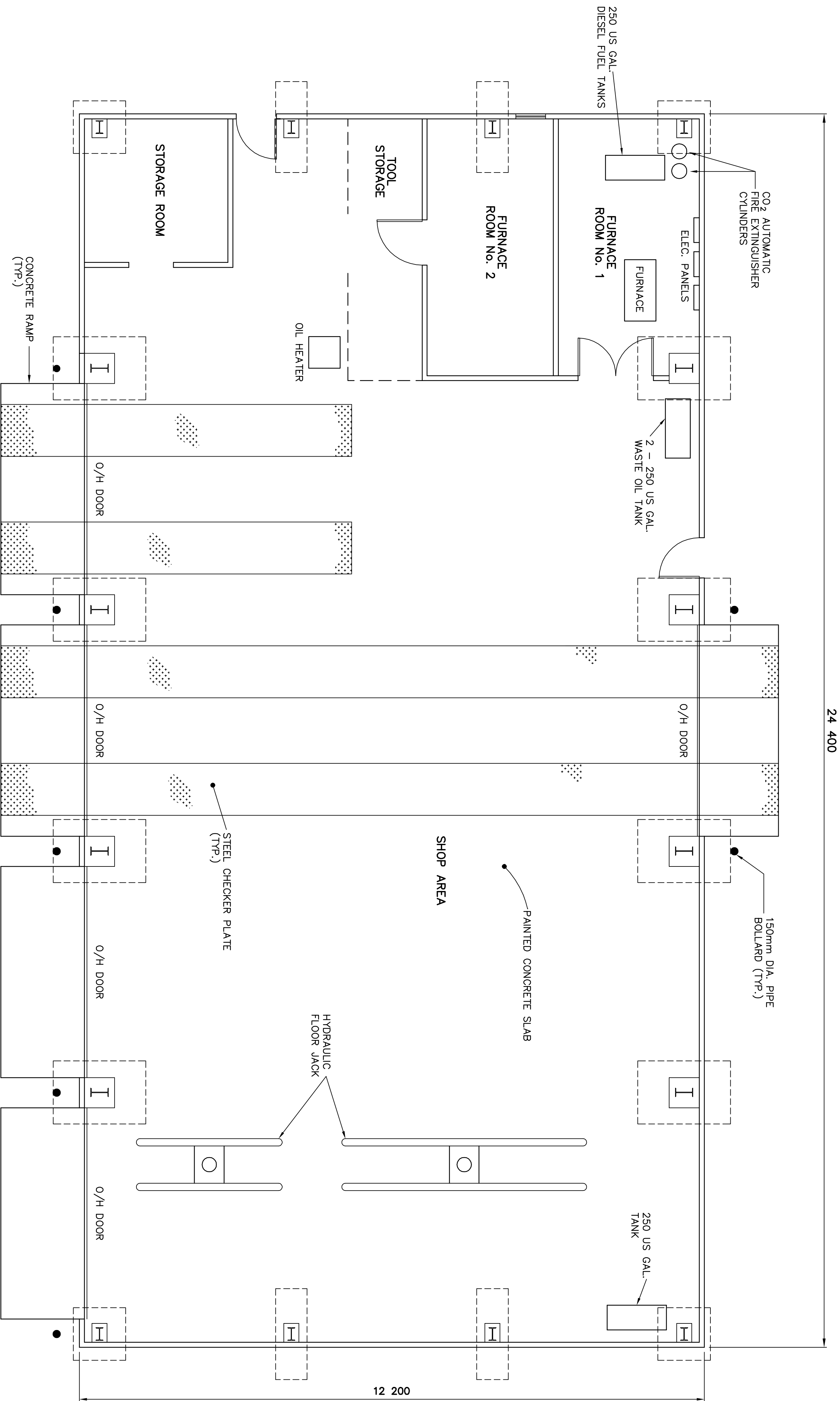
TRADE - MÉTIER	STRUCTURAL	DATE	2008-03-14
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SUBJECT - SUJET

GARAGE
PLAN AND SECTION

PRODUCTION	CONCURRENCE - ASSENTIMENT
DESIGNED ÉTUDE	DES OFF AGENT CONCEPT
DRAWN DRESSINE	SECT HD CHER SECT
CHECKED VÉRIFIÉ	DES MGR GEST CONCEPT
COORDINATION	REVIEWED - REVU

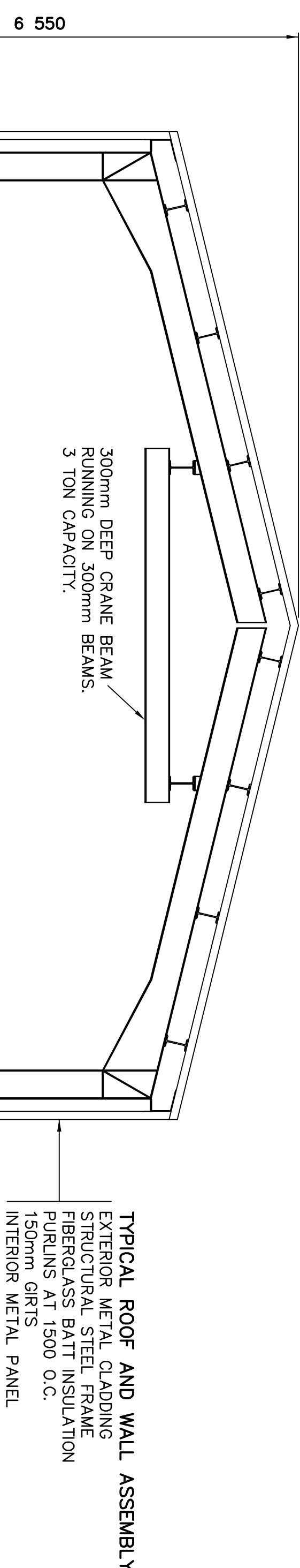
DWG. NO. - DESSIN NO.
H-C75/1-9101-217



FLOOR PLAN

NOTE:
CONCRETE PAD AND RAMPS TO REMAIN AND BE
REGRADED WITH 150mm TYPE 2 GRANULAR FILL
MATERIAL AS CONTINUOUS COVER. REMOVE ALL
PAINT FROM CONCRETE SLAB AND RAMPS PRIOR
TO REGRAIDING.

NWISO NUMBER	COMMENTS
B10B	ASBESTOS REMOVAL REQUIRED.



SECTION

- General Notes:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 3. REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 4. MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.
 5. REMOVE ALL STORED BARRELS TO PROCESSING AREA PRIOR TO DEMOLITION.

Legend:

1	08-03-14	DESIGN	REVISION No. 3	<i>RAM</i>
No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA | AECOM | HATCH

SCALE – ECHELLE AS SHOWN
PROJECT – PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

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TRADE – MÉTIER	STRUCTURAL	DATE	2008-03-14
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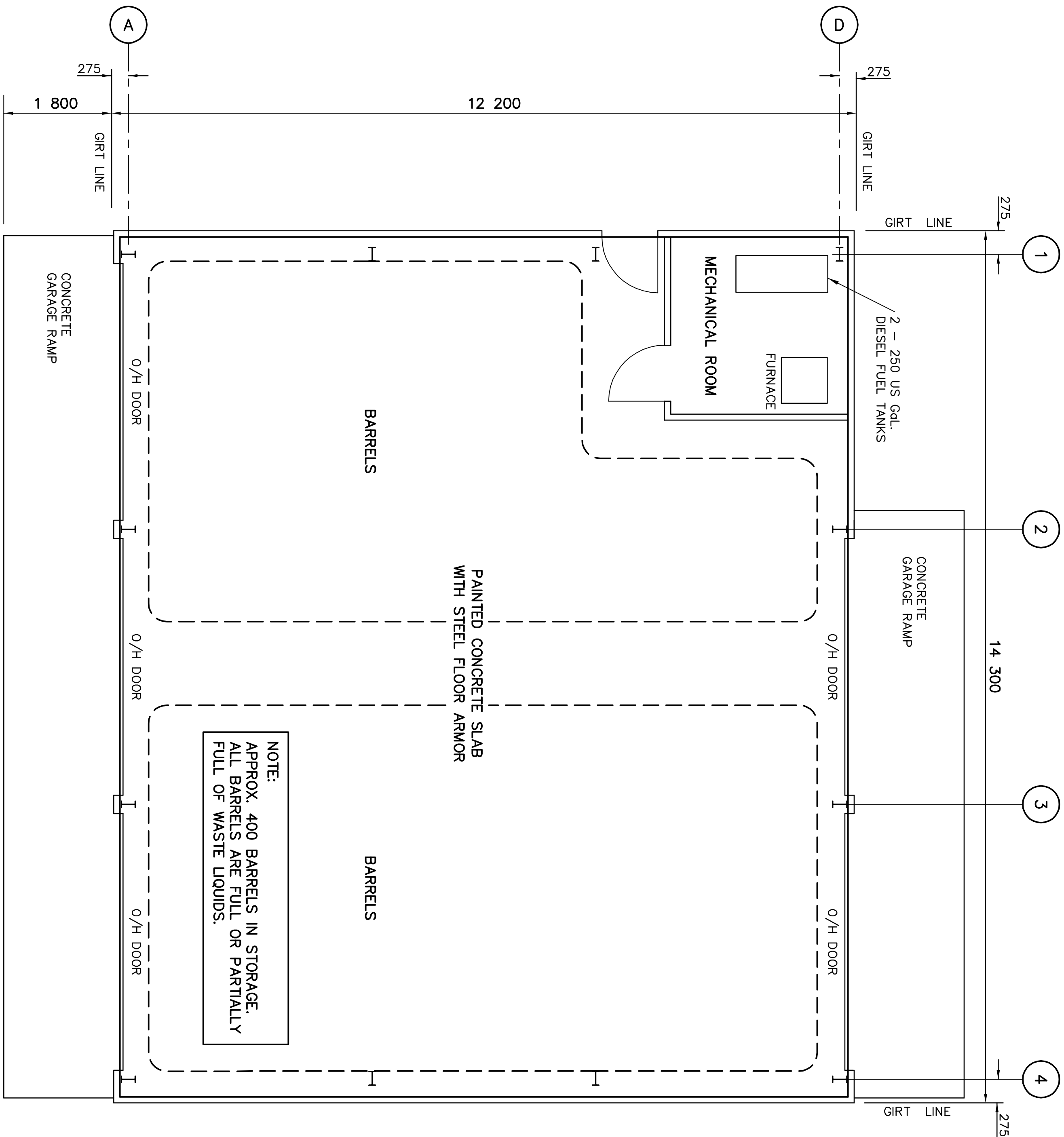
SUBJECT – SUJET
HEATED VEHICLE STORAGE
PLAN, SECTION AND ELEVATIONS

PRODUCTION		CONCURRENCE – ASSESSMENT	
DESIGNED ÉTUDE	<i>DM</i>	DES. OFF. AGENT CONCEPT	
DRAWN DRESSINE	<i>IC</i>	SECT. HD CHIEF SECT	
CHECKED VÉRIFIÉ	<i>RAM</i>	DES. MGR GEST. CONCEPT	
COORDINATION	<i>SMG</i>	REVIEWED – REVU	
DWG. NO. – DESSIN NO. H-C75/1-9101-218			

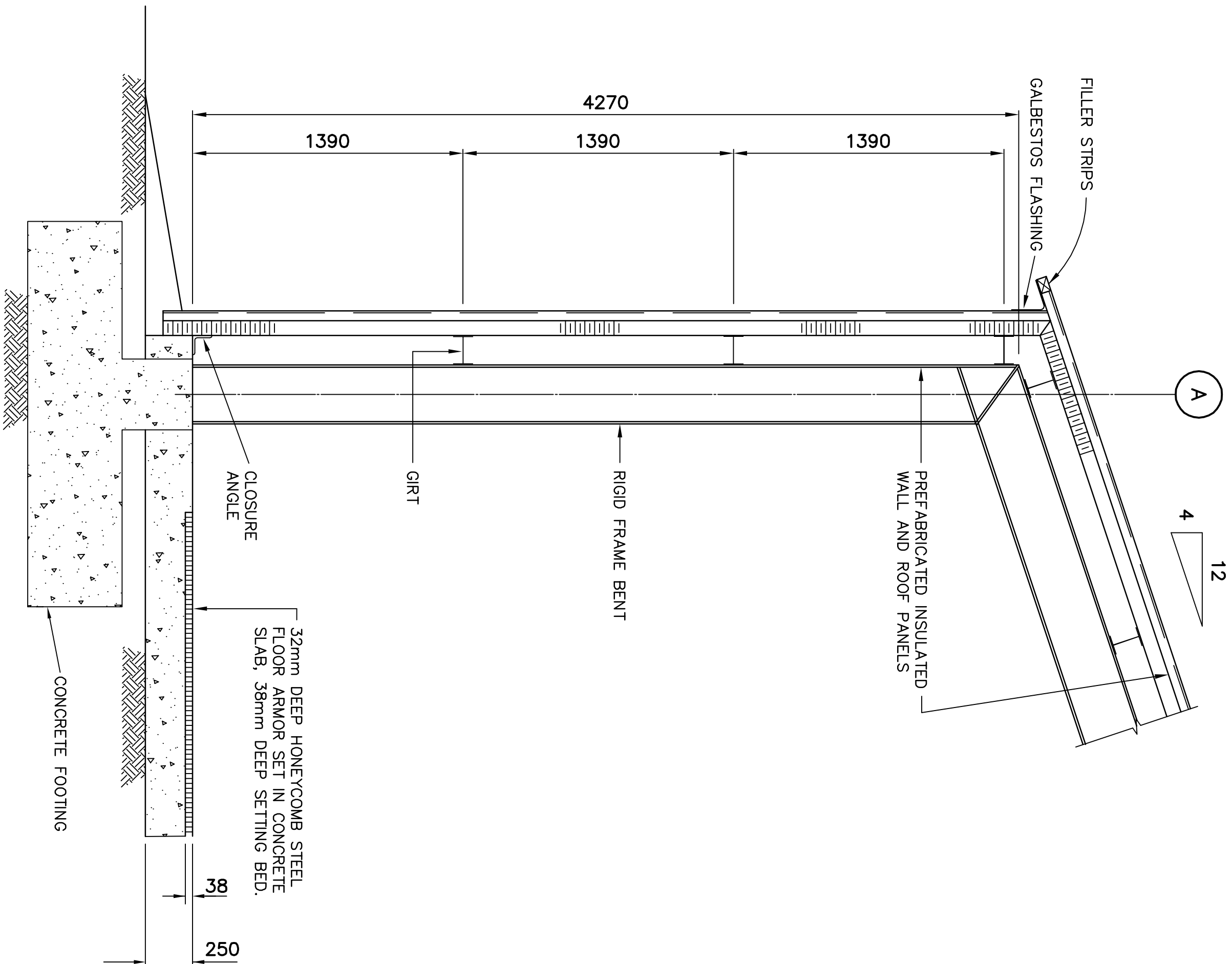
NWSO NUMBER	COMMENTS
BZ7B	ASBESTOS REMOVAL REQUIRED.

NOTE:
REMOVE 25mm THICKNESS OF PCB CONTAMINATED CONCRETE FROM STAINED AREAS ON CONCRETE SLAB INSIDE NORTHWEST DOOR AND ON CONCRETE PAD NORTHWEST OF BUILDING.

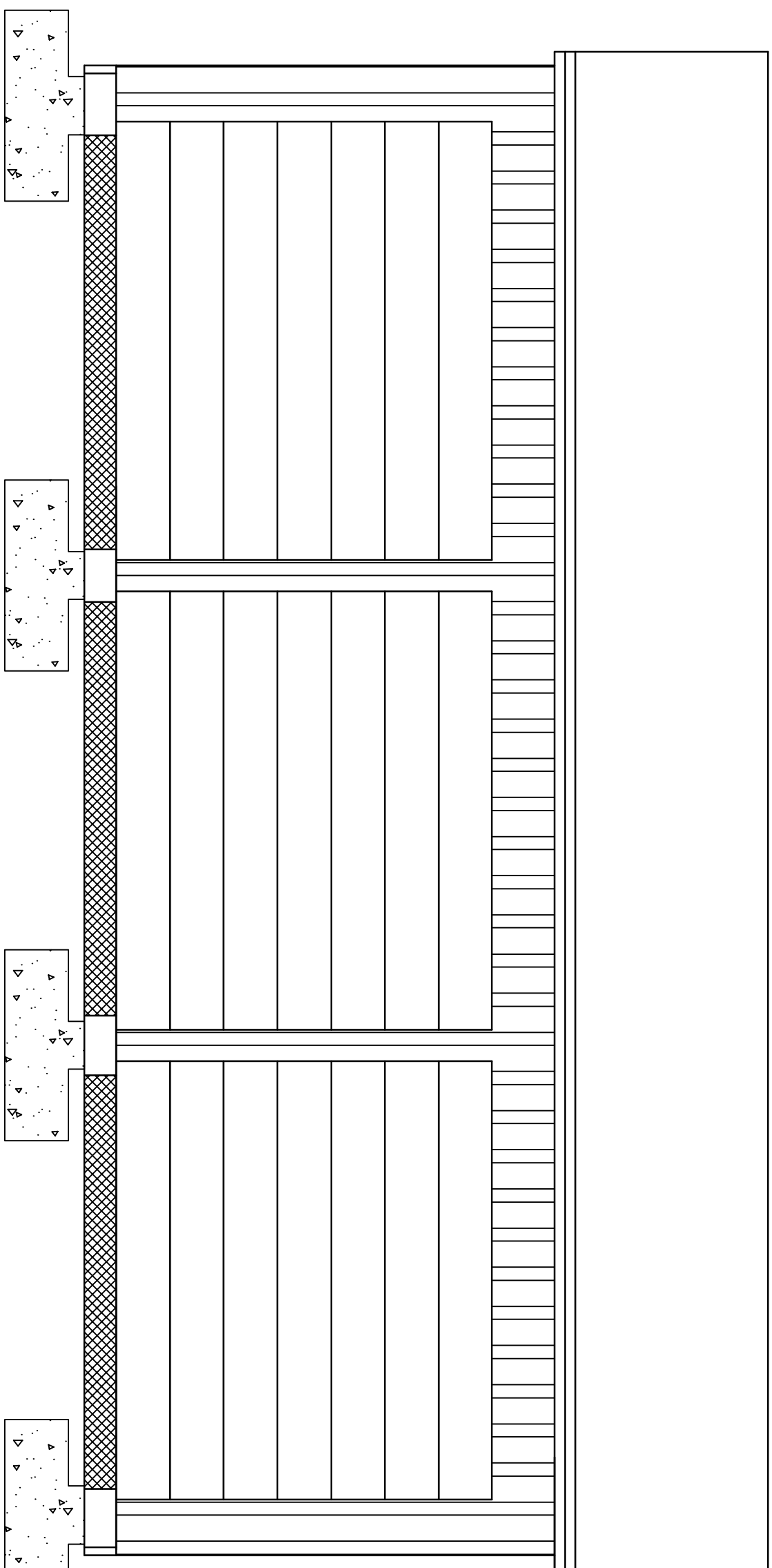
NOTE:
CONCRETE PAD AND RAMPS TO REMAIN AND BE REGRADED WITH 150mm TYPE 2 GRANULAR FILL MATERIAL AS CONTINUOUS COVER. REMOVE ALL PAINT FROM CONCRETE SLAB AND RAMPS PRIOR TO REGRAIDING.



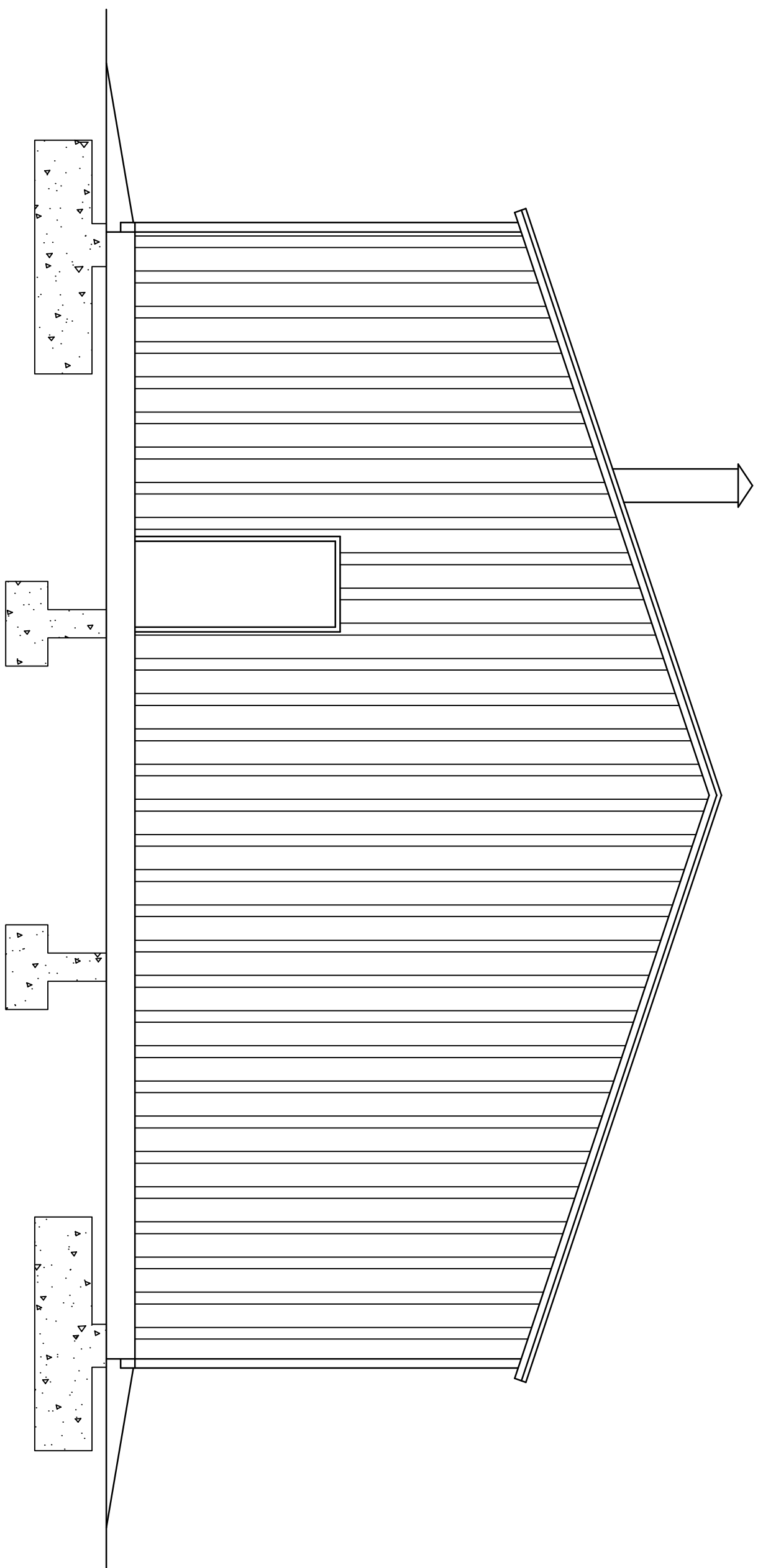
SECTION



PLAN



FRONT ELEVATION



SIDE ELEVATION

Headquarters
Quartier général

- General Notes:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 3. REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 4. MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN	REVISION No. 3	<i>RAM</i>
No.	DATE	REVISION	REVISION	APPR.

DRAFT

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SCALE - ÉCHELLE 1 0.5 0 1 2 3m
PROJECT - PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

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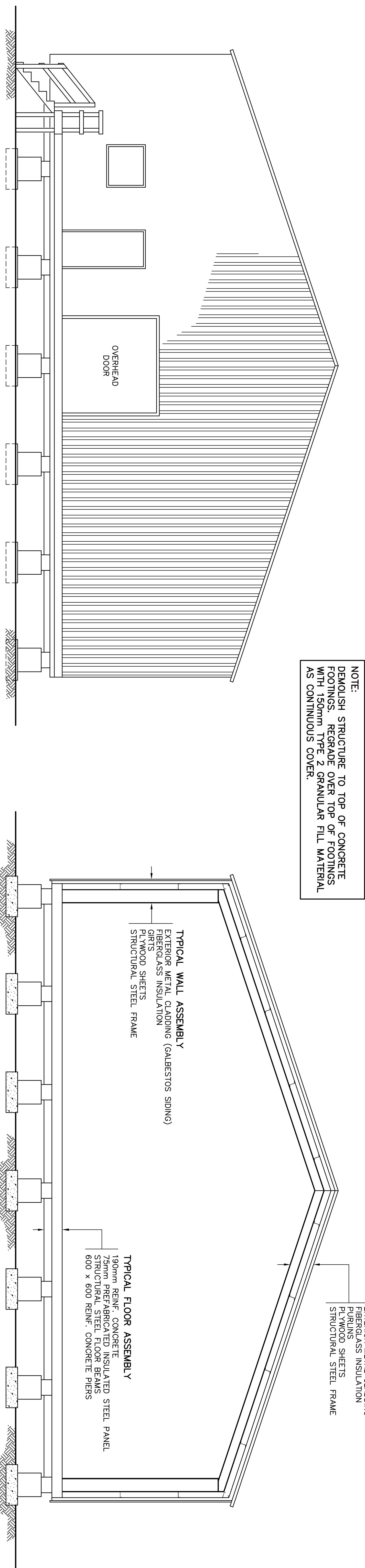
TRADE - MÉTIER STRUCTURAL DATE 2008-03-14

SUBJECT - SUJET
AIR TERMINAL BUILDING
PLAN, SECTION AND ELEVATION

PRODUCTION		CONCURRENCE - ASSESSMENT	
DESIGNED ETUDIÉ	<i>DM</i>	DES. OFF. AGENT CONCEPT	
DRAWN DRESSÉ	<i>IC</i>	SECT. HD. CHIEF SECT.	
CHECKED VÉRIFIÉ	<i>RAM</i>	DES. MGR. GEST. CONCEPT	
COORDINATION	<i>SMG</i>	REVIEWED - REVU	
DWG. NO. - DESIGN NO. H-C75/1-9101-219			



PLAN



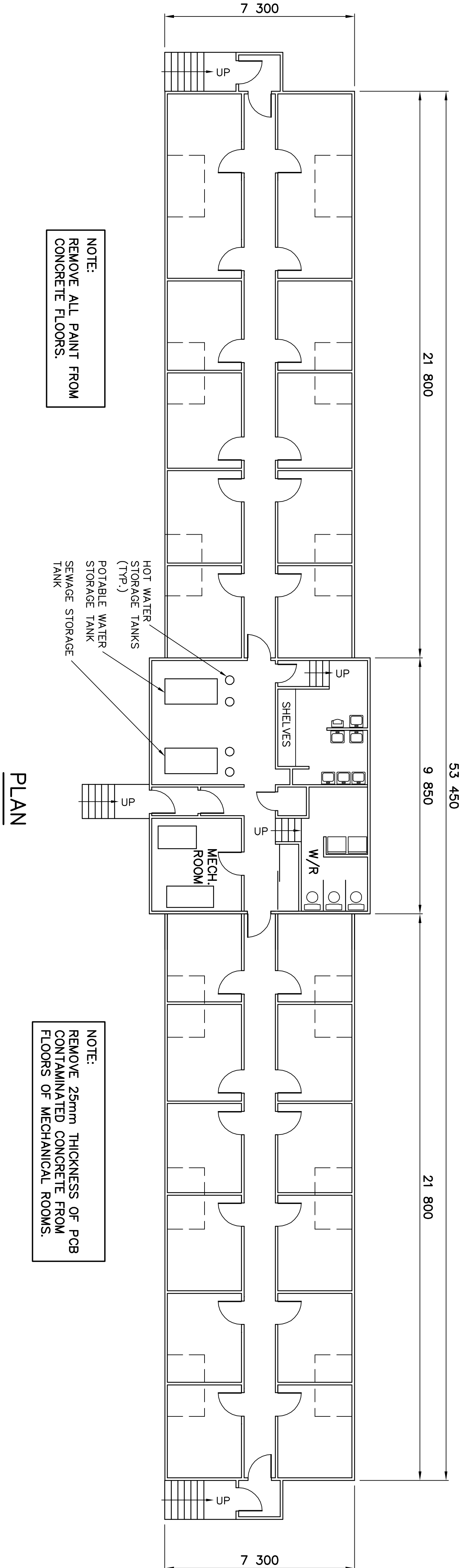
ELEVATION

SECTION

NWSO NUMBER	COMMENTS
B9A	ASBESTOS REMOVAL REQUIRED.

- General Notes:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

NWSO NUMBER	COMMENTS
B2A	CONCRETE FOOTINGS/POSTS, METAL ARCH, BUILDING WITH EXTERIOR WALLS AND PITCHED ROOF. ADDED ASBESTOS REMOVAL REQUIRED.
B2B	PCB CONTAMINATED CONCRETE IN MECHANICAL ROOMS.



SECTION

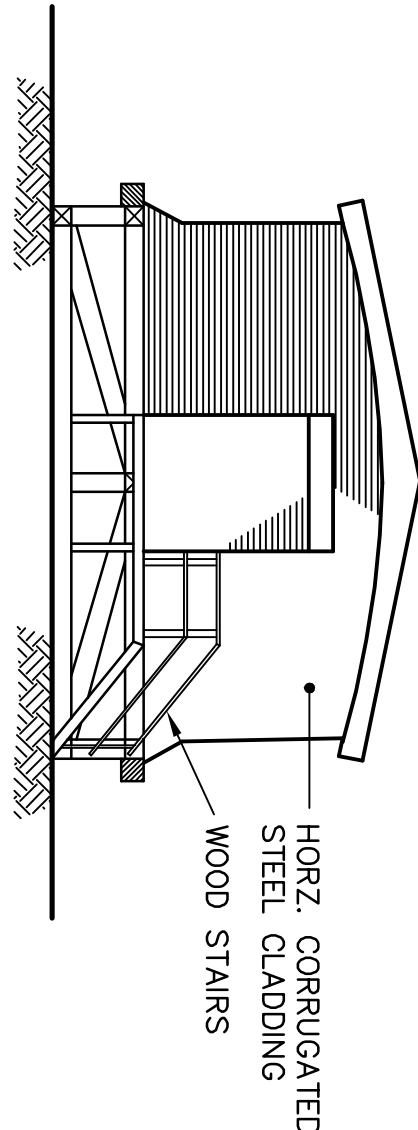
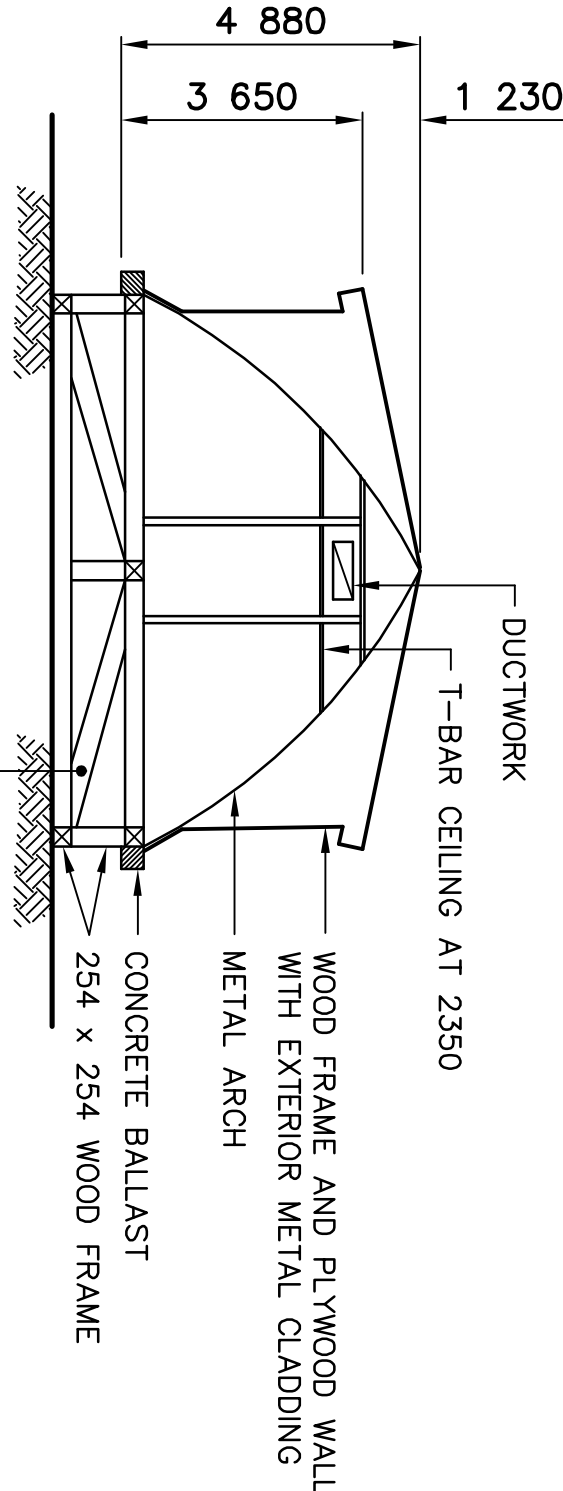
END ELEVATION

PLAN

NOTE:
DEMOLISH STRUCTURE TO TOP OF CONCRETE FOOTINGS.

NOTE:
REMOVE 25mm THICKNESS OF PCB CONTAMINATED CONCRETE FROM FLOORS OF MECHANICAL ROOMS.

NOTE:
REMOVE ALL PAINT FROM CONCRETE FLOORS.



1	08-03-14	DESIGN REVISION No. 3	RAM
No.	DATE	REVISION	APPR.

DRAFT

UMA | AECOM | HATCH

SCALE - ÉCHELLE	2 1 0 2 4 6m
PROJECT - PROJET	DYE-M CAPE DYER

DEW LINE CLEAN UP

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TRADE - MÉTIER	STRUCTURAL	DATE	2008-03-14
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SUBJECT - SUJET

ATWELL DORMITORY
PLAN, SECTION AND ELEVATION

PRODUCTION	CONCURRENCE - ASSESSMENT
DESIGNED ÉTUDE	DES OFF AGENT CONCEPT
DRAWN DRESSINE	SECT HD CHER SECT
CHECKED VÉRIFIÉ	DES MGR GEST CONCEPT
COORDINATION	REVISED - REVU
DWG. NO. - DESSIN NO. H-C75/1-9101-220	

- General Notes:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN REVISION No. 3	RAM
No.	DATE	REVISION	REVISION
			APPR.

DRAFT

UMA | AECOM | HATCH

SCALE - ÉCHELLE 1 0.5 0 1 2 3m

PROJECT - PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

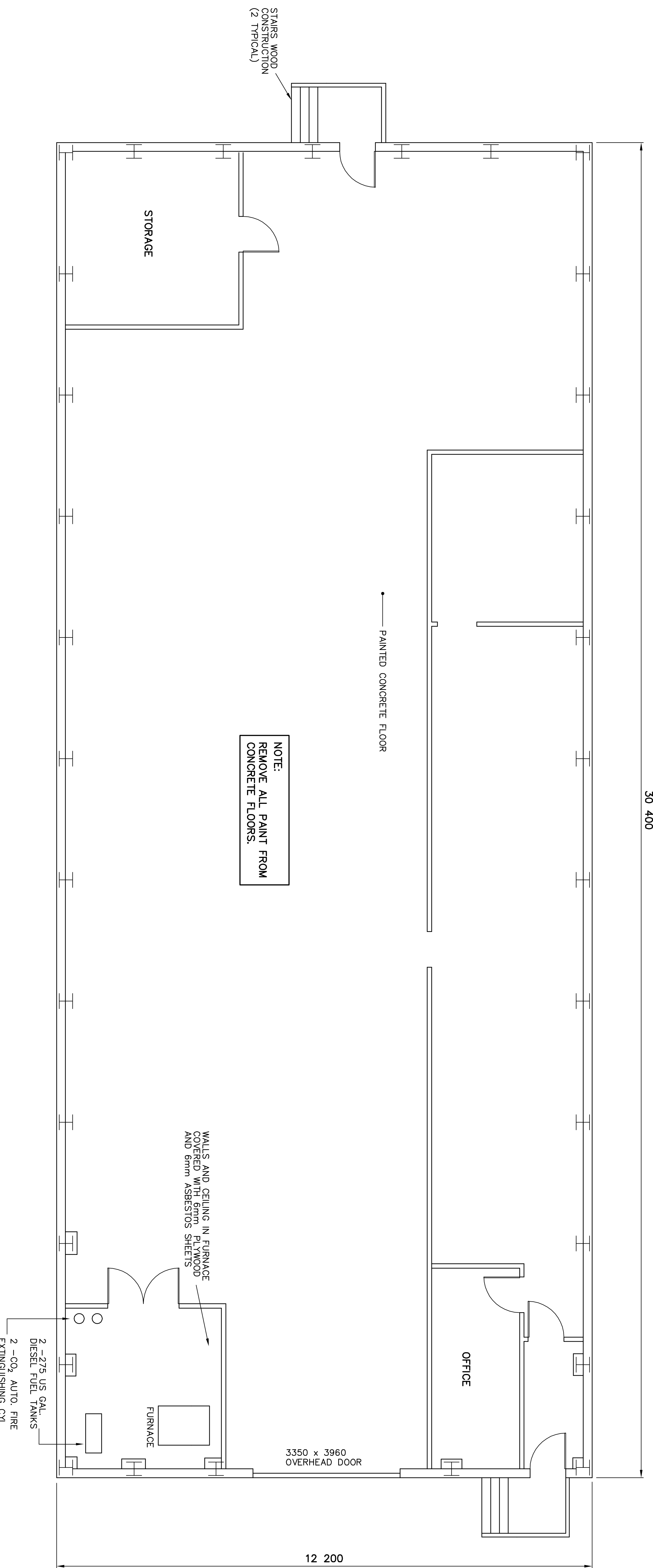
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TRADE - MÉTIER STRUCTURAL DATE 2008-03-14

SUBJECT - SUJET

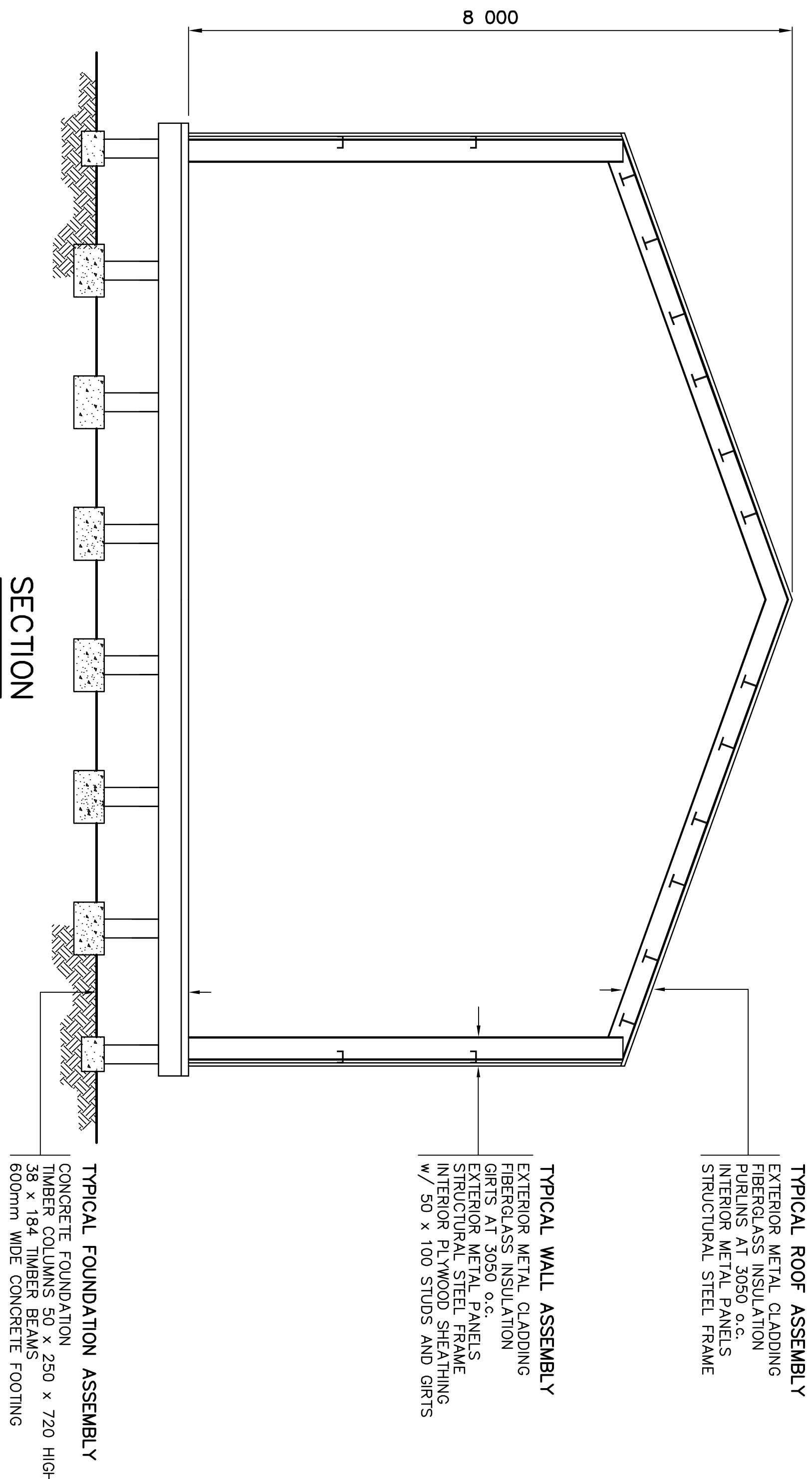
WAREHOUSE - B13A
PLAN AND SECTION

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED	DM	DES. OFF.	AGENT CONCEPT
ETUDE	IC	SECT. HD.	CHIEF SECT.
DRAWN	IC	SECT. HD.	CHIEF SECT.
DRESSING	IC	SECT. HD.	CHIEF SECT.
CHECKED	RAM	DES. MGR.	GEST. CONCEPT
VERIFIED	RAM	DES. MGR.	GEST. CONCEPT
COORDINATION	RAM	DES. MGR.	GEST. CONCEPT
DWG. NO. - DESSIN NO. H-C75/1-9101-221			



PLAN

NOTE:
DEMOLISH STRUCTURE TO TOP OF CONCRETE
FOOTINGS. REGRADE OVER TOP OF FOOTINGS
WITH 150mm TYPE 2 GRANULAR FILL MATERIAL
AS CONTINUOUS COVER.



- General Notes:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN REVISION No. 3	RAM
No.	DATE	REVISION	REVISION
			APPR.

DRAFT

UMA | AECOM | HATCH

SCALE - ÉCHELLE 1 0.5 0 1 2 3m

PROJECT - PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

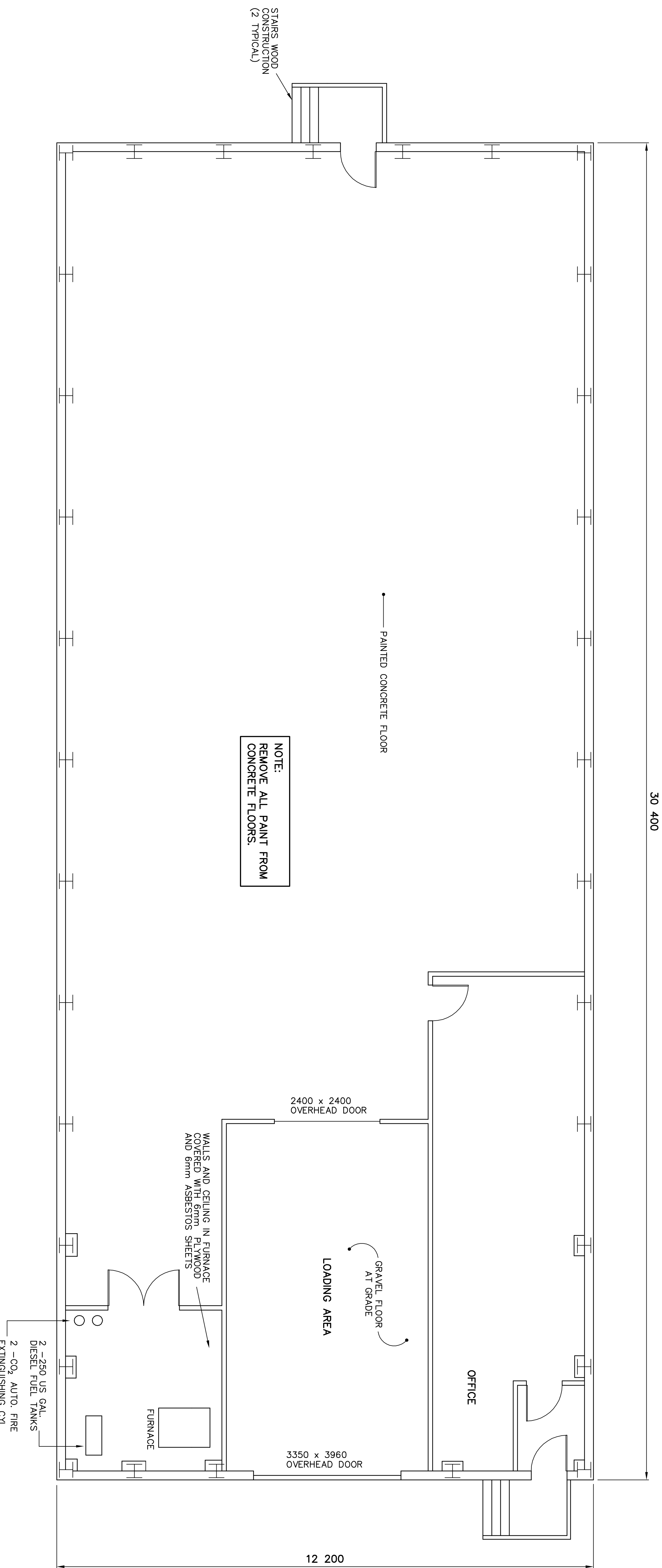
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TRADE - MÉTIER STRUCTURAL DATE 2008-03-14

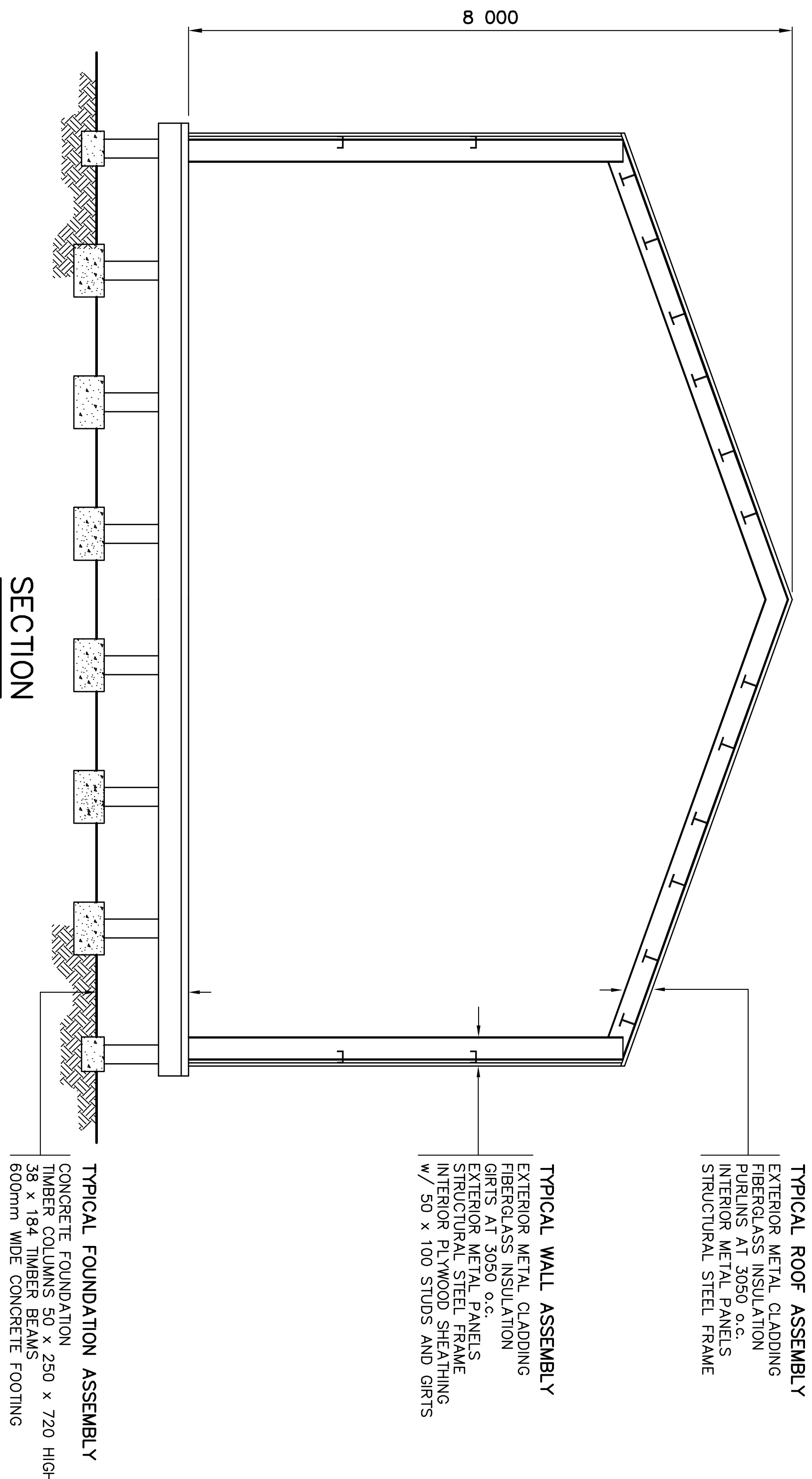
SUBJECT - SUJET

WAREHOUSE - B13B
PLAN AND SECTION

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED	DM	DES. OFF.	AGENT CONCEPT
ETUDIE	IC	SECT. HD.	CHÉF. SECT.
DRAWN	IC	SECT. HD.	CHÉF. SECT.
DRESSING	IC	SECT. HD.	CHÉF. SECT.
CHECKED	RAM	DES. MGR.	GEST. CONCEPT
VERIFIED	RAM	DES. MGR.	GEST. CONCEPT
COORDINATION	RAM	DES. MGR.	GEST. CONCEPT
DWG. NO. - DESSIN NO. H-C75/1-9101-222			



PLAN



NOTE:
DEMOLISH STRUCTURE TO TOP OF CONCRETE FOOTINGS. REGRADE OVER TOP OF FOOTINGS WITH 150mm TYPE 2 GRANULAR FILL MATERIAL AS CONTINUOUS COVER.

- General Notes:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - FACILITIES TO BE DEMOLISHED MAY CONTAIN PCB AND LEAD CONTAMINATED PAINT. REFER TO SECTION 02060 OF THE SPECIFICATIONS.
 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN REVISION No. 3	<i>RAM</i>
No.	DATE	REVISION	REVISION
			APPR.

DRAFT

UMA | AECOM | HATCH

SCALE - ÉCHELLE 1 0.5 0 1 2 3m

PROJECT - PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

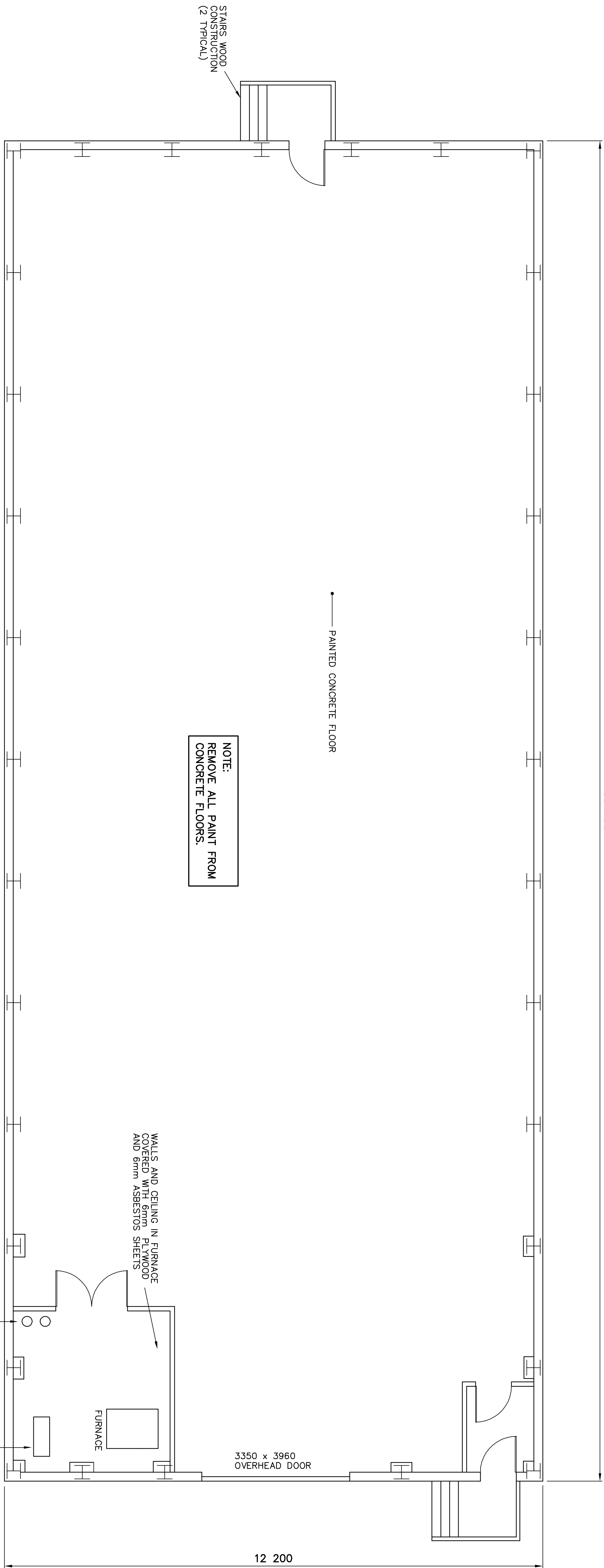
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TRADE - MÉTIER STRUCTURAL DATE 2008-03-14

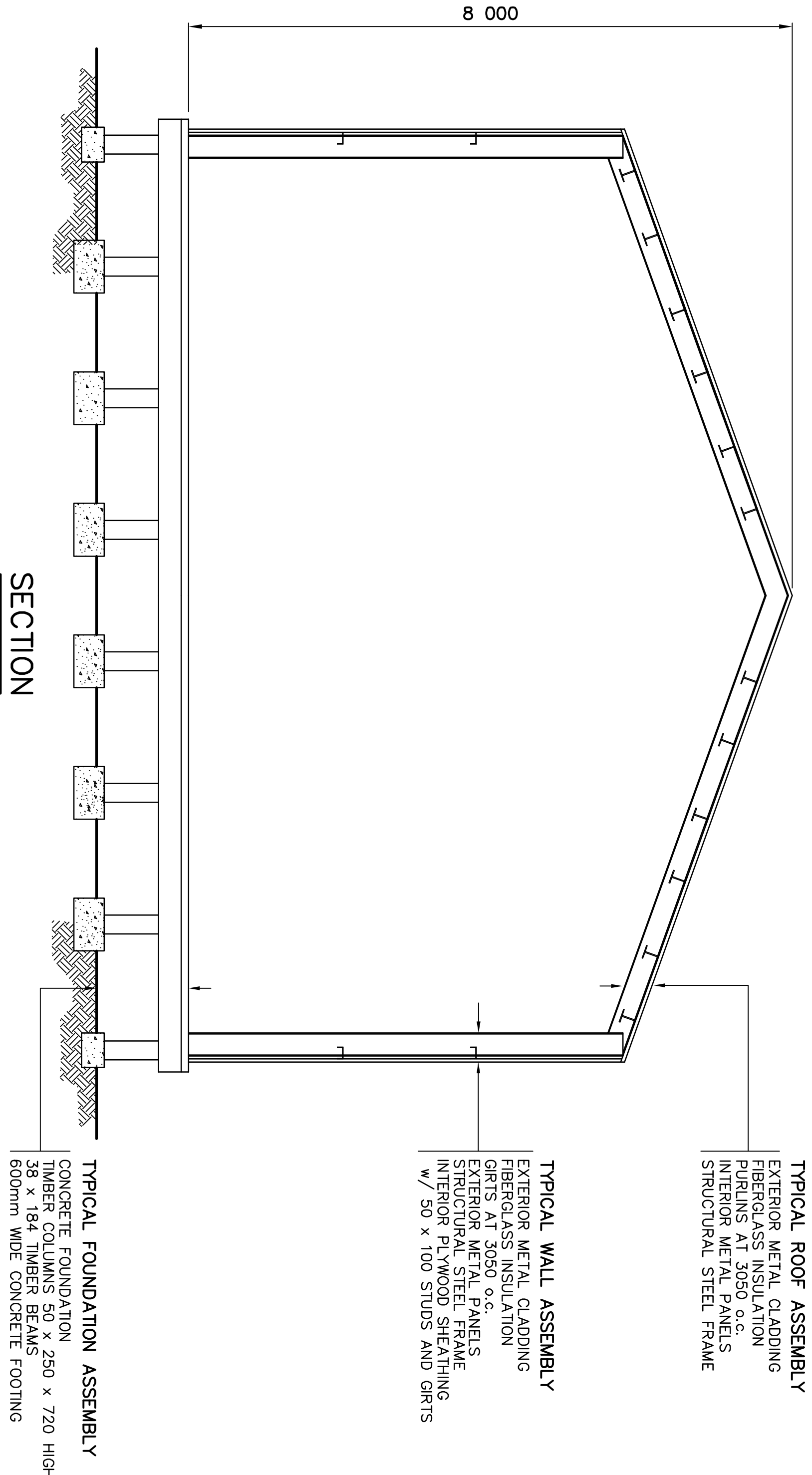
SUBJECT - SUJET

WAREHOUSE - B13F
PLAN AND SECTION

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED	<i>DJM</i>	DES. OFF.	AGENT CONCEPT
ETUIE			
DRAWN	<i>IC</i>	SECT. HD.	SECT. SECT.
DRESSING		CHEF. SECT.	
CHECKED	<i>RAM</i>	DES. MGR.	GEST. CONCEPT
VERIFIED			
COORDINATION	<i>SMG</i>	REVIEWED - REVU	
DWG. NO. - DESSIN NO. H-C75/1-9101-223			



PLAN



SECTION

NWSO NUMBER	COMMENTS
B13F	ASBESTOS REMOVAL REQUIRED. ADDITIONAL PARTIONS. 32.7m WOOD FRAME/PLYWOOD. MEZZANINE 3.8m x 18.4m x 2.6m A.F.F.

- General Notes:
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 - REFER TO DEMOLITION TABLES IN SPECIFICATIONS FOR LIST OF MAJOR BUILDING CONTENTS.
 - MECHANICAL EQUIPMENT/DUCTING NOT SHOWN.

Legend:

1	08-03-14	DESIGN REVISION No. 3	RAM
No.	DATE	REVISION	REVISION
			APPR.

DRAFT

UMA | AECOM | HATCH

SCALE – ÉCHELLE N.T.S.

PROJECT – PROJET
DYE-M CAPE DYER

DEW LINE CLEAN UP

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CANADA 2008, AS REPRESENTED BY THE
MINISTER OF NATIONAL DEFENCE.

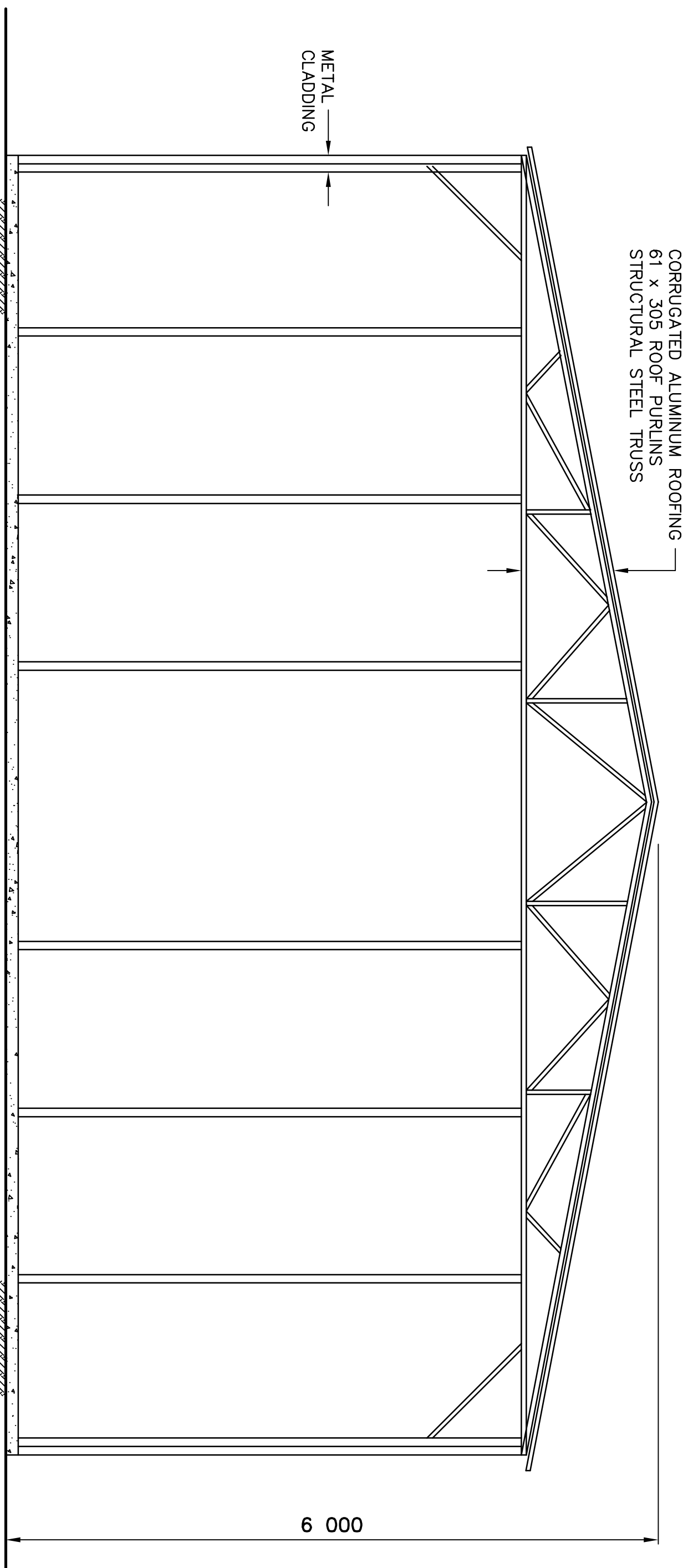
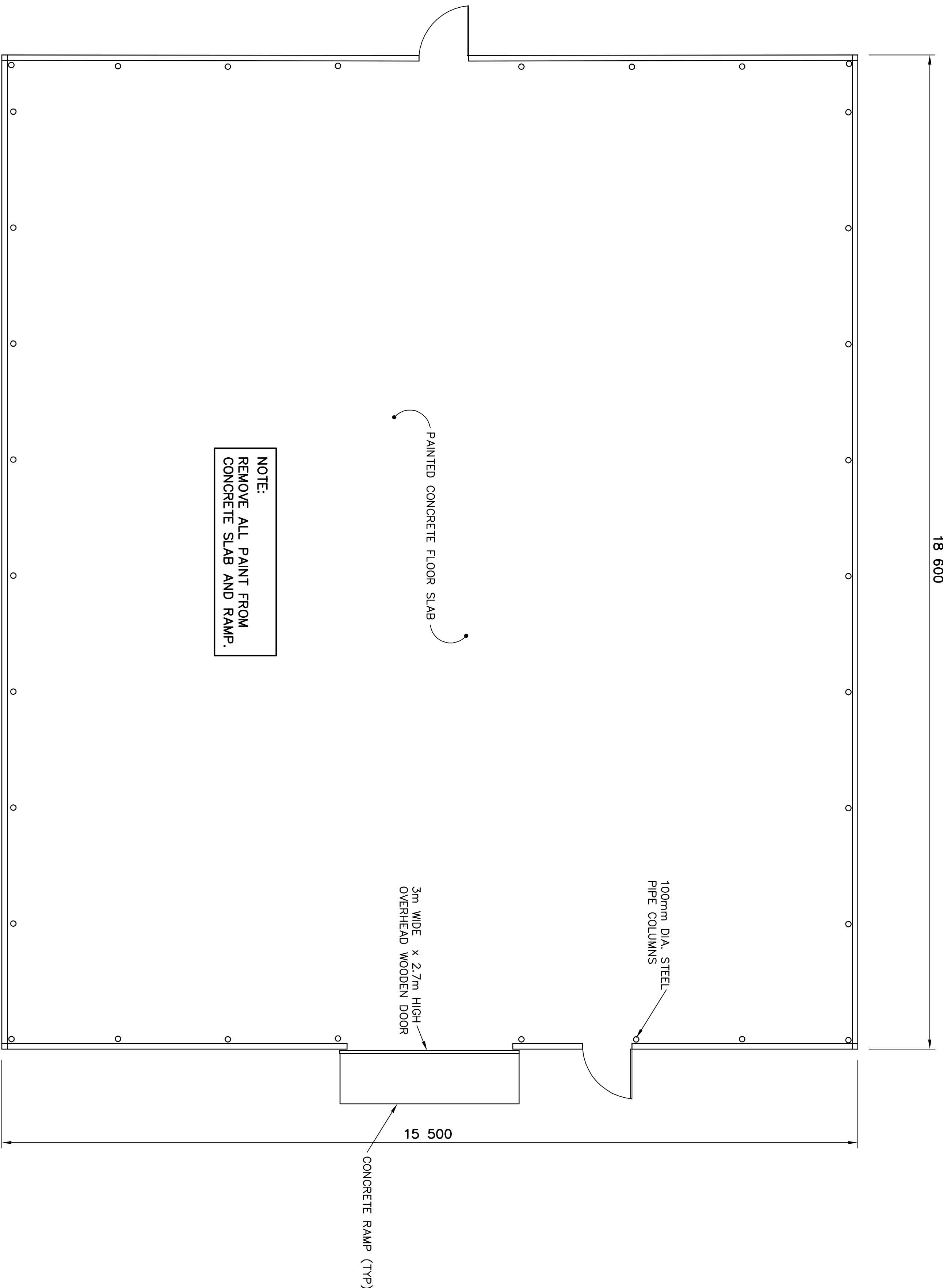
TRADE – MÉTIER	STRUCTURAL	DATE	2008-03-14
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SUBJECT – SUJET

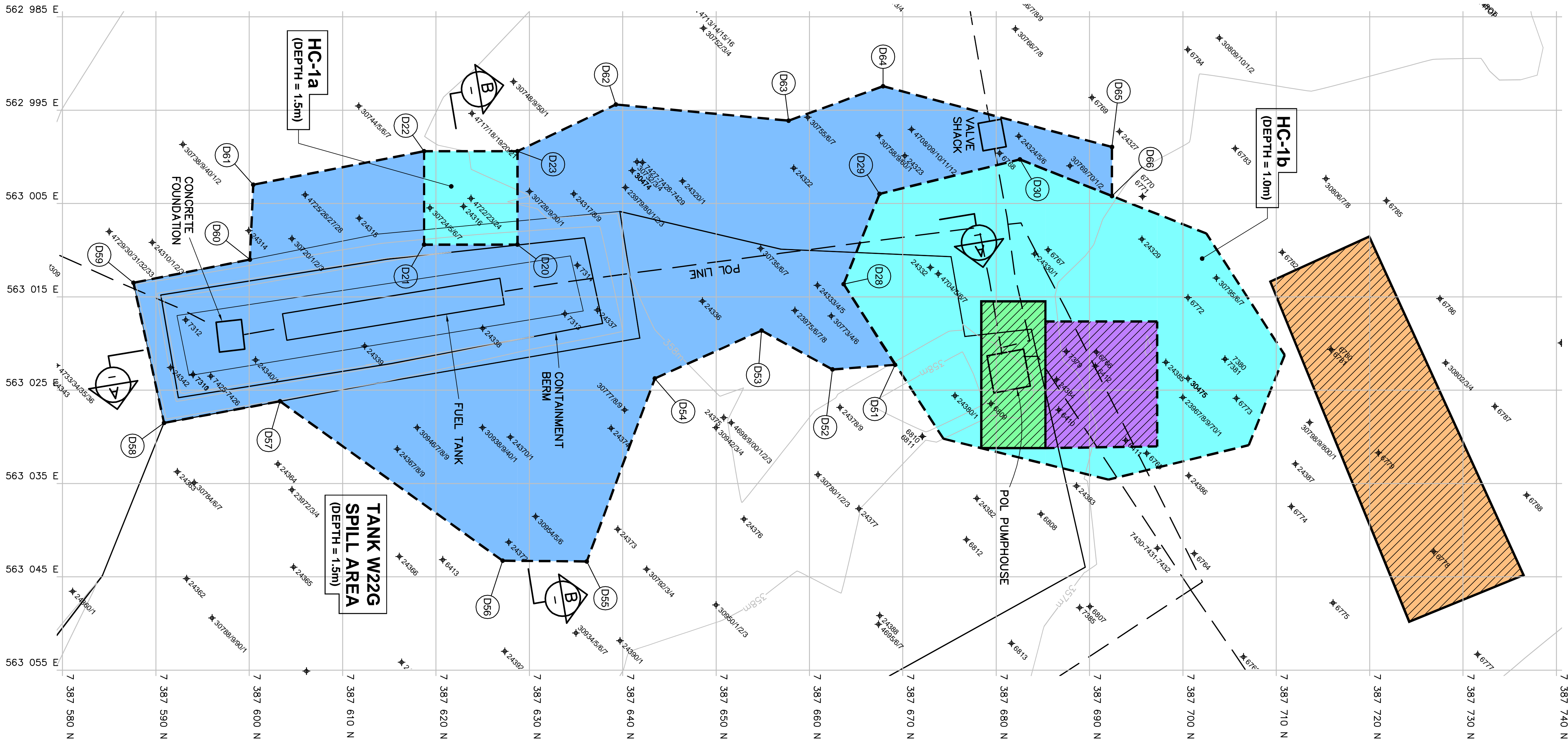
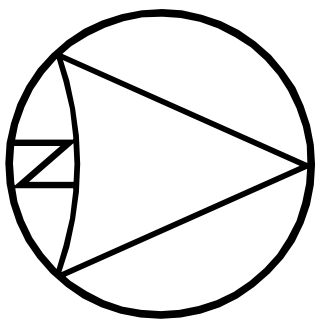
WAREHOUSE – B13E
PLAN AND SECTION

PRODUCTION		CONCURRENCE – ASSESSMENT	
DESIGNED ÉTUDE	DYM	DES. OFF. AGENT CONCEPT	
DRAWN DESSINE	IC	SECT. HD. CHIEF SECT.	
CHECKED VÉRIFIÉ	RAM	DES. MGR. GEST. CONCEPT	
COORDINATION	SMS	REVIEWED – REVU	
DWG. NO. – DESSIN NO. H-C75/1-9101-224			

NWSO NUMBER	COMMENTS
B13E	AS SHOWN



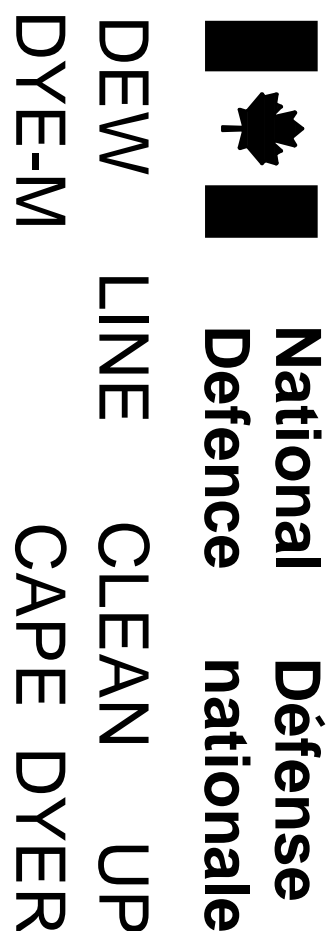
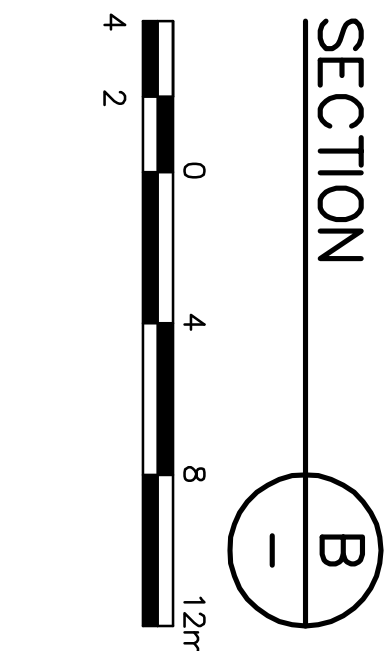
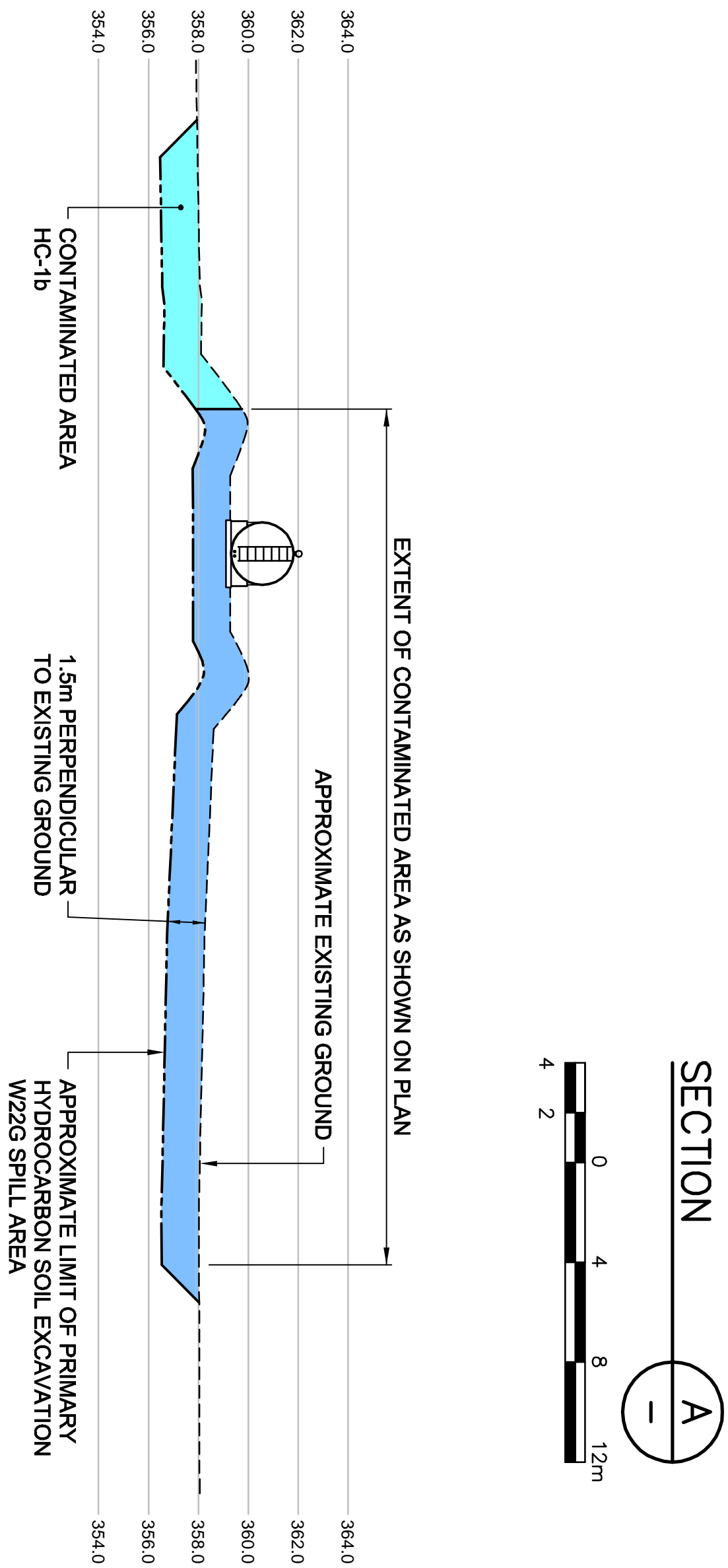
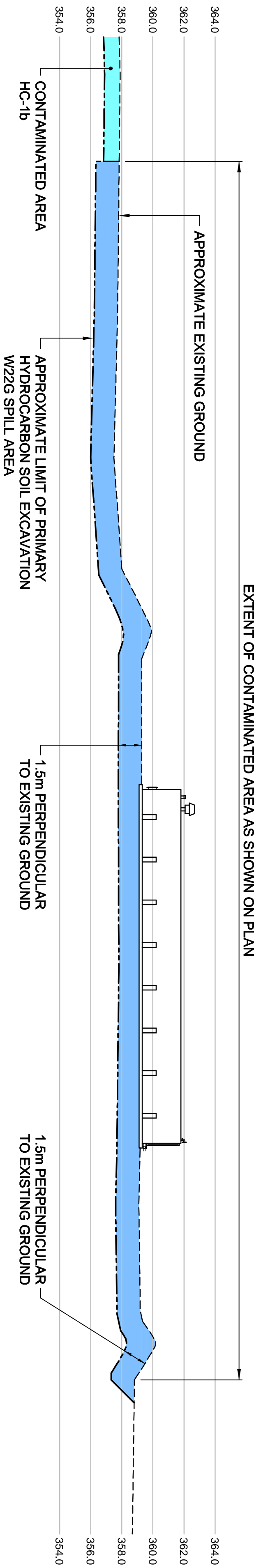
NOTE:
DEMOLISH STRUCTURE TO TOP OF CONCRETE
FLOOR SLAB. CONCRETE RAMP TO REMAIN.

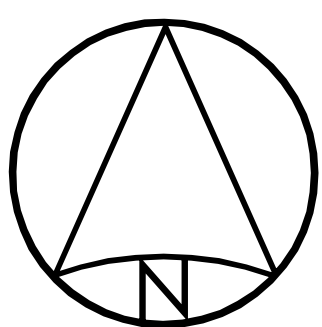


- LEGEND:**
- DCC TIER I CONTAMINATED SOILS
 - HYDROCARBON – TYPE A / DCC TIER I CONTAMINATED SOILS
 - HYDROCARBON – TYPE B CONTAMINATED SOILS
 - HYDROCARBON – TYPE B / DCC TIER I CONTAMINATED SOILS
 - TANK W22G SPILL AREA HYDROCARBON – TYPE B CONTAMINATED SOILS
 - REFERENCE POINT (NOT SURVEYED)
 - SOIL SAMPLE TAG LOCATION

COORDINATE POINTS TANK W22G SPILL AREA			
NO.	COORDINATES		
	NORTHING	EASTING	
D20	7 387 628.7	563 009.4	
D21	7 387 618.7	563 009.4	
D22	7 387 618.7	562 999.4	
D23	7 387 628.7	562 999.4	
D28	7 387 663.7	563 013.6	
D29	7 387 667.5	563 004.0	
D30	7 387 682.6	563 000.3	
D51	7 387 669.2	563 022.3	
D52	7 387 662.5	563 022.8	
D53	7 387 654.9	563 018.6	
D54	7 387 643.5	563 023.7	
D55	7 387 636.2	563 043.3	
D56	7 387 627.2	563 043.3	
D57	7 387 603.3	563 026.2	
D58	7 387 590.9	563 028.5	
D59	7 387 587.6	563 013.5	
D60	7 387 600.1	563 011.0	
D61	7 387 600.4	563 003.0	
D62	7 387 639.3	562 994.4	
D63	7 387 657.8	562 996.1	
D64	7 387 667.9	562 992.4	
D65	7 387 692.4	562 998.9	
D66	7 387 692.4	563 004.2	

CONTAMINATED SOIL EXCAVATIONS			
AREA NAME	APPROX. AREA OF CONTAMINATION (m ²)	DEPTH OF EXCAVATION (m)	APPROX. VOLUME OF EXCAVATION (m ³)
TANK W22G SPILL AREA	2425	1.5	3900





DEW LINE CLEAN UP
DYE-M CAPE DYER

PLOT SHOWING ADDITIONAL INFORMATION
FOR CLARIFICATION DURING CLEAN UP
OF CONTAMINATED SOIL AREAS.

PLOT DATE: MARCH 28, 2008

LOWER SITE - SHEET 5 OF 12 (REVISION 2)

LEGEND:

- DCC TIER I CONTAMINATED SOILS
- DCC TIER II CONTAMINATED SOILS
- HYDROCARBON – TYPE A CONTAMINATED SOILS
- HYDROCARBON – TYPE A / DCC TIER I CONTAMINATED SOILS
- HYDROCARBON – TYPE A / DCC TIER II CONTAMINATED SOILS
- HYDROCARBON – TYPE B CONTAMINATED SOILS
- HYDROCARBON – TYPE B / DCC TIER I CONTAMINATED SOILS
- HYDROCARBON – TYPE B / DCC TIER II CONTAMINATED SOILS
- BTEX CONTAMINATED SOILS
- CEPA CONTAMINATED SOILS
- HAZARDOUS CONTAMINATED SOILS
- REFERENCE POINT (NOT SURVEYED)
- SOIL SAMPLE TAG LOCATION

COORDINATE POINTS POL-1, POL-2 AND POL-3		
NO.	COORDINATES	
	NORTHING	EASTING
D1	7 387 736.5	563 044.8
D2	7 387 724.2	563 049.8
D3	7 387 709.4	563 013.4
D4	7 387 720.0	563 008.5
D5	7 387 697.2	563 031.0
D6	7 387 685.3	563 031.2
D7	7 387 678.4	563 031.2
D8	7 387 678.4	563 015.5
D9	7 387 685.3	563 015.5
D10	7 387 685.3	563 017.6
D11	7 387 697.2	563 017.6

COORDINATE POINTS HC-1a, HC-1b AND HC-1c		
NO.	COORDINATES	
	NORTHING	EASTING
D20	7 387 628.7	563 009.4
D21	7 387 618.7	563 009.4
D22	7 387 618.7	562 999.4
D23	7 387 628.7	562 999.4
D24	7 387 710.9	563 021.2
D25	7 387 707.1	563 030.9
D26	7 387 692.0	563 034.6
D27	7 387 674.4	563 030.2
D28	7 387 663.7	563 013.6
D29	7 387 667.5	563 004.0
D30	7 387 682.6	563 000.3
D31	7 387 702.5	563 008.2
D32	7 387 696.3	563 098.5
D33	7 387 689.2	563 098.5
D34	7 387 682.9	563 084.5
D35	7 387 699.4	563 084.5

COORDINATE POINTS HC-2		
NO.	COORDINATES	
	NORTHING	EASTING
D40	7 387 656.3	563 067.4
D41	7 387 636.8	563 084.7
D42	7 387 627.7	563 096.3
D43	7 387 586.7	563 123.8
D44	7 387 562.5	563 118.8
D45	7 387 528.5	563 086.9
D46	7 387 533.2	563 076.7
D47	7 387 552.6	563 075.7
D48	7 387 568.5	563 068.3
D49	7 387 634.8	563 055.7
D50	7 387 653.2	563 057.7

COORDINATE POINTS TANK W22G SPILL AREA		
NO.	COORDINATES	
	NORTHING	EASTING
D51	7 387 669.2	563 022.3
D52	7 387 662.5	563 022.8
D53	7 387 654.9	563 018.6
D54	7 387 643.5	563 023.7
D55	7 387 636.2	563 043.3
D56	7 387 627.2	563 043.3
D57	7 387 603.3	563 026.2
D58	7 387 590.9	563 028.5
D59	7 387 587.6	563 013.5
D60	7 387 600.1	563 011.0
D61	7 387 600.4	563 003.0
D62	7 387 639.3	562 994.4
D63	7 387 657.8	562 996.1
D64	7 387 667.9	562 992.4
D65	7 387 692.4	562 998.9
D66	7 387 692.4	563 004.2

CONTAMINATED SOIL EXCAVATIONS			
AREA NAME	APPROX. AREA OF CONTAMINATION (m ²)	DEPTH OF EXCAVATION (m)	APPROX. VOLUME OF EXCAVATION (m ³)
DCC TIER I			
POL-2	108	0.3	32
HYDROCARBON – TYPE B			
HC-1a	100	1.5	199
HC-1b	1125	1.0	1157
HC-1c	166	1.2	239
HYDROCARBON – TYPE A / DCC TIER I			
POL-1	492	0.3	156
HYDROCARBON – TYPE B / DCC TIER I			
POL-3 (SUBSURFACE)	161	0.5 (FROM 1.0 TO 1.5)	87
BTEX			
*HC-2 (SURFACE)	4900	0.75	4000
*HC-2 (SUBSURFACE)	4900	0.95 (FROM 0.75 TO 1.7)	4800
TANK SPILL			
TANK W22G SPILL AREA	2425	1.5	3900

*THE TOP PORTION OF AREA HC-2 (SURFACE TO 0.75m DEPTH) IS CLEAN SOIL AND DOES NOT REQUIRE TREATMENT. THE REMAINDER OF THE AREA (0.75m TO 1.7m DEPTH) IS TO BE EXCAVATED AND TREATED BY SOIL TURNING.

LOWER SITE POL AREA – (POL) (DWG. 109)

