

# ECO-SCIENCE BUILDING RECAPITALIZATION TERRA NOVA NATIONAL PARK, NL

## ISSUED FOR TENDER MARCH 24, 2016

### DRAWING LIST:

#### ARCHITECTURAL

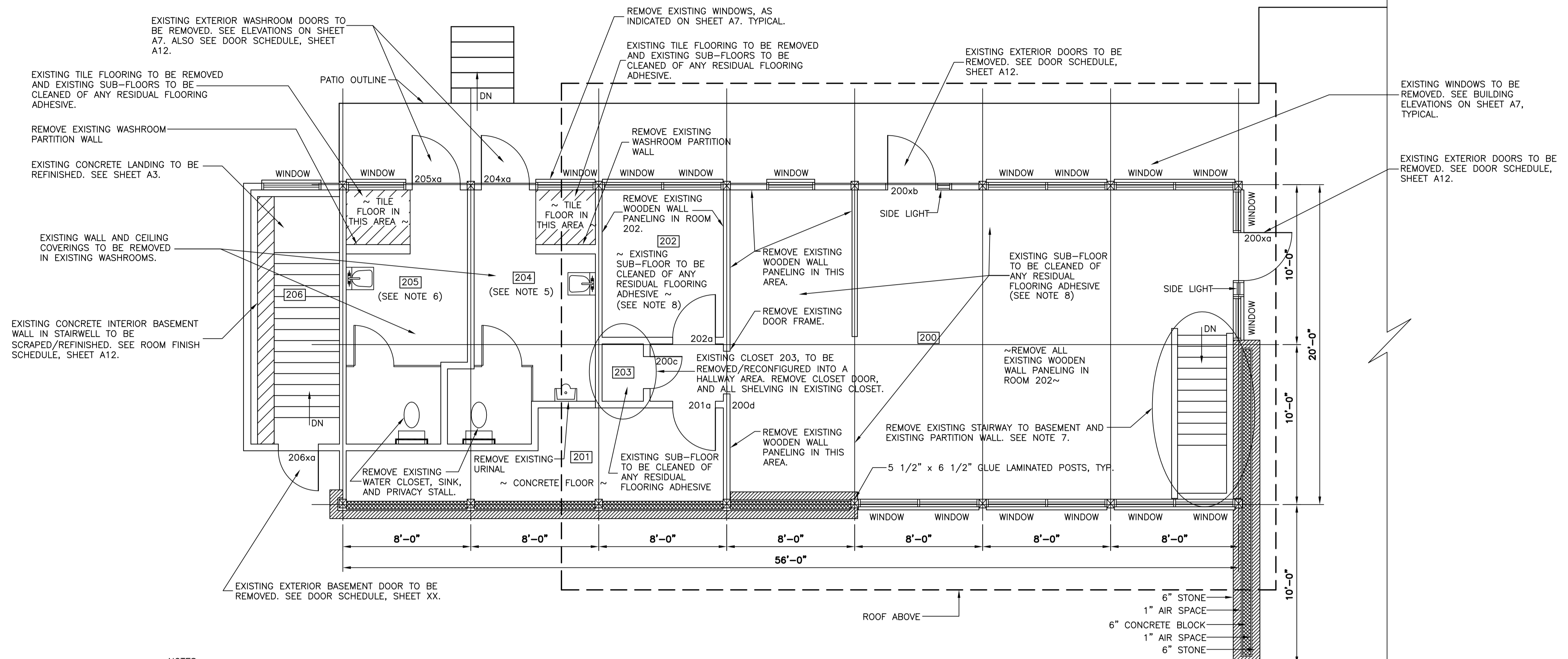
A1 - EXISTING ECO-SCIENCE BUILDING FLOOR PLAN c/w DEMOLITION - MAIN FLOOR  
A2 - EXISTING ECO-SCIENCE BUILDING FLOOR PLAN c/w DEMOLITION - BASEMENT  
A3 - NEW ECO-SCIENCE BUILDING FLOOR PLAN c/w RENOVATIONS - MAIN FLOOR  
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A8 - EXISTING ECO-SCIENCE BUILDING ELEVATIONS c/w RENOVATIONS - NORTH/EAST  
A9 - EXISTING DECK PLAN, ELEVATIONS, AND SECTIONS C/W DEMOLITION  
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A11 - DETAILS-1  
A12 - DETAILS-2

#### MECHANICAL

M1 - PARTIAL BASEMENT AND MAIN DEMOLITION FLOOR PLAN - MECHANICAL LAYOUT  
M2 - PARTIAL NEW FLOOR PLANS - PLUMBING LAYOUT  
M3 - PLUMBING SCHEDULES AND DETAILS  
M4 - VENTILATION LAYOUT  
M5 - VENTILATION SCHEDULES AND DETAILS  
M6 - VENTILATION DETAILS

#### ELECTRICAL

E1 - LEGEND  
E2 - BASEMENT & MAIN FLOOR PLAN DEMOLITION  
E3 - BASEMENT & MAIN FLOOR PLAN LIGHTING LAYOUT  
E4 - BASEMENT & MAIN FLOOR PLAN GENERAL POWER LAYOUT  
E5 - PANEL AND SCHEDULES  
E6 - DETAILS



- NOTES:**
- DO NOT SCALE FROM DRAWINGS.
  - ALL DIMENSIONS IN FEET AND INCHES, UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE, PRIOR TO PROCEEDING WITH ANY PORTION OF THE WORK.
  - THE EXISTING ECO-SCIENCE BUILDING PLAN AND DETAILS SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW AND VERIFY THE EXTENT OF WORK NECESSARY FOR THE COMPLETION OF THE WORK SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
  - CONTRACTOR TO MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION STRESSES, WEATHER PROTECTION, AND FOR SUFFICIENT TEMPORARY BRACING AND SHORING TO KEEP THE STRUCTURE PLUMB AND LEVEL, DURING ALL PHASES OF WORK.
  - EXISTING "MENS" WASHROOM TO BE CONVERTED TO UNISEX WASHROOM C/W INTERIOR ACCESS DOOR. SEE SHEET A3, FOR DETAILS.
  - EXISTING "WOMENS" WASHROOM TO BE CONVERTED TO A STORAGE AREA, C/W EXTERIOR ACCESS DOOR. SEE SHEET A3, FOR DETAILS.
  - REMOVE EXISTING FLOOR, TO NEAREST SUPPORT, TO ACCOMMODATE REMOVAL OF EXISTING STAIRWAY, AND INSTALLATION OF NEW.
  - EXISTING SUB-FLOOR TO BE RECONDITIONED AND LEVELED, IN PREPARATION FOR INSTALLATION OF NEW RESILIENT SHEET FLOORING.
  - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION REQUIRED TO REMOVE EXISTING ITEMS AND TO FACILITATE INSTALLATION OF NEW ITEMS ASSOCIATED WITH IT. REPAIR/PATCH ALL AREAS AFFECTED BY THIS WORK WITH MATERIALS/FINISH TO MATCH EXISTING.
  - COORDINATE WITH OWNER DURING ALL PHASES OF CONSTRUCTION.

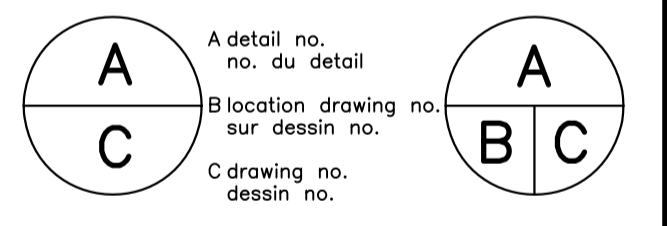
**LEGEND:**  
200 - ROOM NUMBER  
 200xa - DOOR NUMBER (SEE DOOR SCHEDULE)

**1 EXISTING MAIN FLOOR PLAN**  
 SCALE: 1/4" = 1'  
 0' 2' 4' 10' 20'

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
 This Permit Allows  
**Meridian Engineering Inc.**  
 To practice Professional Engineering  
 in Newfoundland and Labrador  
 Permit No. as issued by PEG: N0453  
 which is valid for the year 2016.



C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date



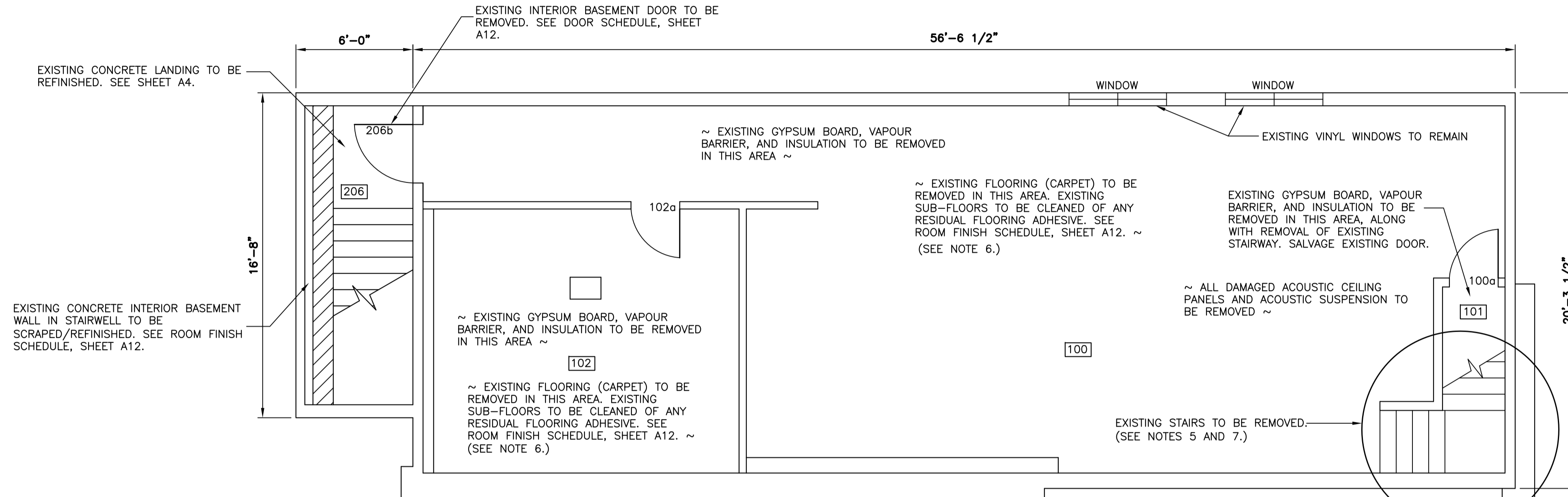
project projet  
**ECO-SCIENCE BUILDING  
 RECAPITALIZATION  
 T.N.N.P., NL**

drawing dessin  
**EXISTING ECO-SCIENCE  
 BUILDING FLOOR PLAN  
 C/W DEMOLITION  
 - MAIN FLOOR**

designed K. FITZGERALD concu  
 date MARCH 2016  
 drawn R. SNOW dessine  
 date MARCH 2016  
 approved J. STRICKLAND approuve  
 date MARCH 2016  
 Tender Soumission

PWC Project Manager Administrateur de projets TPC  
 project number no. du projet  
**PRO 000607**

drawing no. no. du dessin  
**A1**

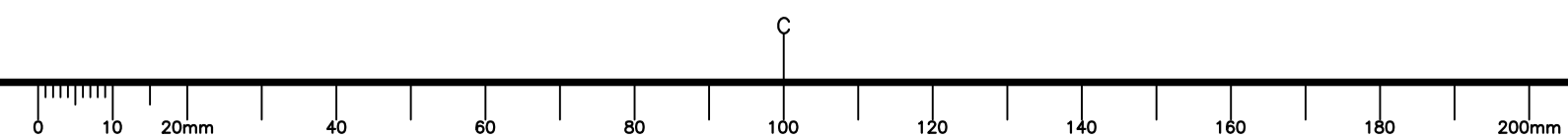


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- 2050mm (6'-8") OF CLEAR HEIGHT IS REQUIRED OVER NEW STAIRS. REMOVE EXISTING FINISHES, INCLUDING ACOUSTIC SUSPENDED CEILING, HEATING DUCTS, INTERIOR WALLS, AND CEILING PORTION; AS REQUIRED TO ACCOMMODATE NEW WORK.
- EXISTING SUB-FLOOR TO BE RECONDITIONED AND LEVELED, IN PREPARATION FOR INSTALLATION OF NEW RESILIENT SHEET FLOORING.
- REMOVE EXISTING CEILING, AND ALL FINISHES, TO NEAREST SUPPORT, TO ACCOMMODATE REMOVAL OF EXISTING STAIRWAY, AND INSTALLATION OF NEW.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION REQUIRED TO REMOVE EXISTING ITEMS AND TO FACILITATE INSTALLATION OF NEW ITEMS ASSOCIATED WITH IT. REPAIR/PATCH ALL AREAS AFFECTED BY THIS WORK WITH MATERIALS/FINISH TO MATCH EXISTING.
- COORDINATE WITH OWNER DURING ALL PHASES OF CONSTRUCTION.

**1 EXISTING FLOOR PLAN - BASEMENT**  
SCALE: 1/4" = 1'

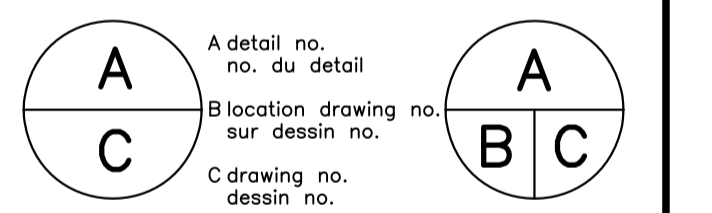
**LEGEND:**  
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200xa - DOOR NUMBER (SEE DOOR SCHEDULE)



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revisions		date



project projet

**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

drawing dessin

**EXISTING ECO-SCIENCE BUILDING FLOOR PLAN C/W DEMOLITION - BASEMENT**

designed K. FITZGERALD conçu

date MARCH 2016

drawn R. SNOW dessiné

date MARCH 2016

approved J. STRICKLAND approuvé

date MARCH 2016

Tender Soumission

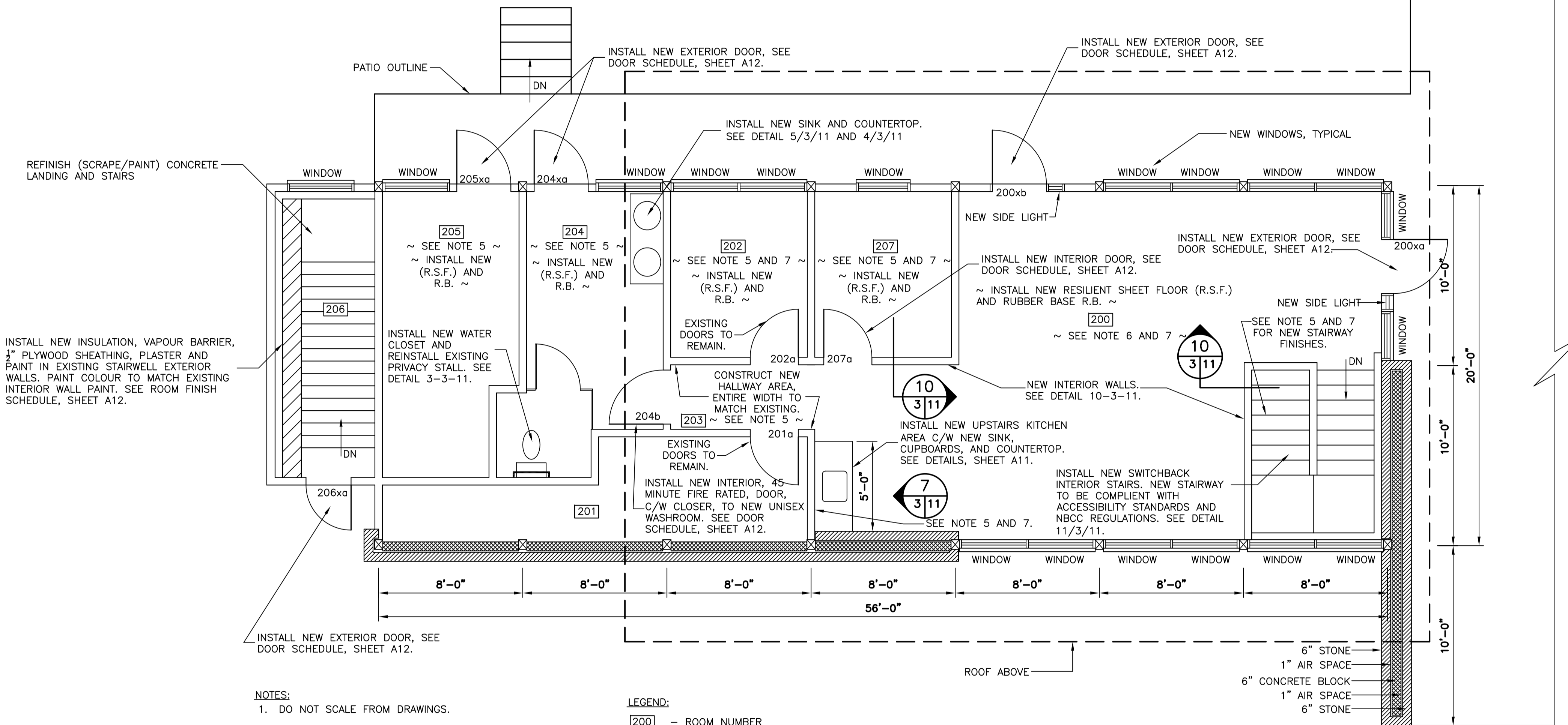
PWC Project Manager Administrateur de projets TPC

project number no. du projet

**PRO 000607**

drawing no. no. du dessin

**A2**



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  - ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION.
  - ALL DEMOLISHED/RENOVATED AREAS TO BE REPAIRED TO MATCH EXISTING MATERIALS AND FINISH UNLESS NOTED OTHERWISE. REFINISH ROOMS AS PER ROOM FINISH SCHEDULE.
  - NEW ROOM FINISHES IN THIS AREA INCLUDE NEW R.S.F., NEW RUBBER BASE, NEW GYPSUM BOARD ON WALLS AND CEILING, AND NEW PLASTER/PAINT ON WALLS AND CEILING. INSTALL NEW INSULATION AND VAPOUR BARRIER ON ALL EXTERIOR WALLS. ALL PAINT COLOURS TO MATCH EXISTING. SEE ROOM FINISH SCHEDULE, SHEET A12.
  - NEW ROOM FINISHES IN THIS AREA INCLUDE NEW R.S.F., NEW RUBBER BASE AND NEW PLASTER/PAINT ON WALLS AND CEILING. ALL PAINT COLOURS TO MATCH EXISTING. SEE ROOM FINISH SCHEDULE, SHEET A12.
  - INSTALL NEW 1/2" GYPSUM BOARD, C/W PLASTER AND PAINT, WHERE EXISTING WOODEN WALL PANELS HAVE BEEN REMOVED.

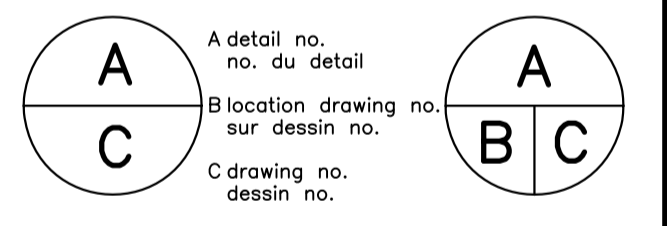
- LEGEND:**
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  - 200xa - DOOR NUMBER (SEE DOOR SCHEDULE)

**1 NEW MAIN FLOOR PLAN**  
 SCALE: 1/4" = 1'  
 0' 2' 4' 10' 20'

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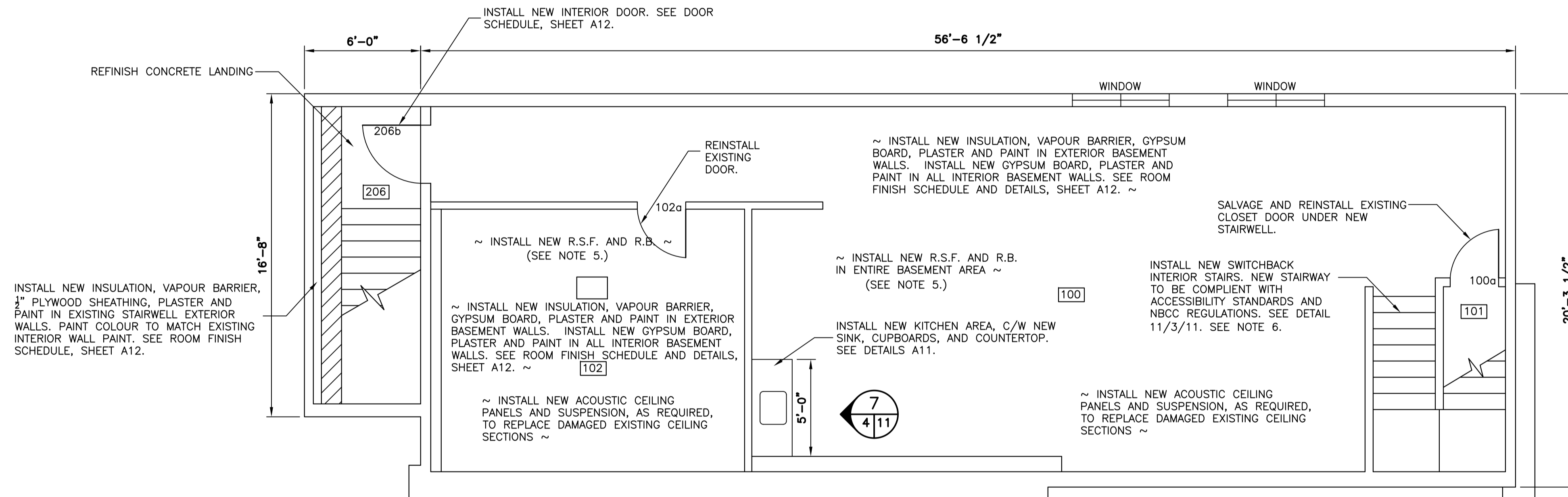
C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date



**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

**NEW ECO-SCIENCE BUILDING FLOOR PLAN C/W RENOVATIONS - MAIN FLOOR**

designed K. FITZGERALD	conçu
date MARCH 2016	
drawn R. SNOW	dessiné
date MARCH 2016	
approved J. STRICKLAND	approuvé
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>A3</b>	



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4. ALL DEMOLISHED/RENOVATED AREAS TO BE REPAIRED TO MATCH EXISTING MATERIALS AND FINISH UNLESS NOTED OTHERWISE. REFINISH ROOMS AS PER ROOM FINISH SCHEDULE.
5. EXISTING SUB-FLOOR TO BE RECONDITIONED AND LEVELED, PRIOR TO INSTALLATION OF NEW R.S.F.
6. 2050mm (6'-8") OF CLEAR HEIGHT IS REQUIRED OVER NEW STAIRS. REMOVE EXISTING FINISHES, INCLUDING ACOUSTIC SUSPENDED CEILING, HEATING DUCTS, INTERIOR WALLS, AND CEILING PORTION; AS REQUIRED TO ACCOMMODATE NEW WORK.

**LEGEND:**

- 100 - ROOM NUMBER
- 100a - DOOR NUMBER (SEE DOOR SCHEDULE)



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B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project project

**ECO-SCIENCE BUILDING  
 RECAPITALIZATION  
 T.N.N.P., NL**

drawing dessin

**NEW ECO-SCIENCE  
 BUILDING FLOOR PLAN  
 C/W RENOVATIONS  
 - BASEMENT**

designed K. FITZGERALD conçu

date MARCH 2016

drawn R. SNOW dessiné

date MARCH 2016

approved J. STRICKLAND approuvé

date MARCH 2016

Tender Soumission

PWC Project Manager Administrateur de projets TPC

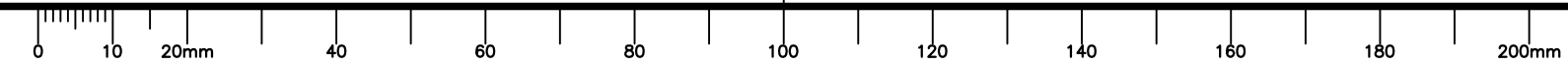
project number no. du projet

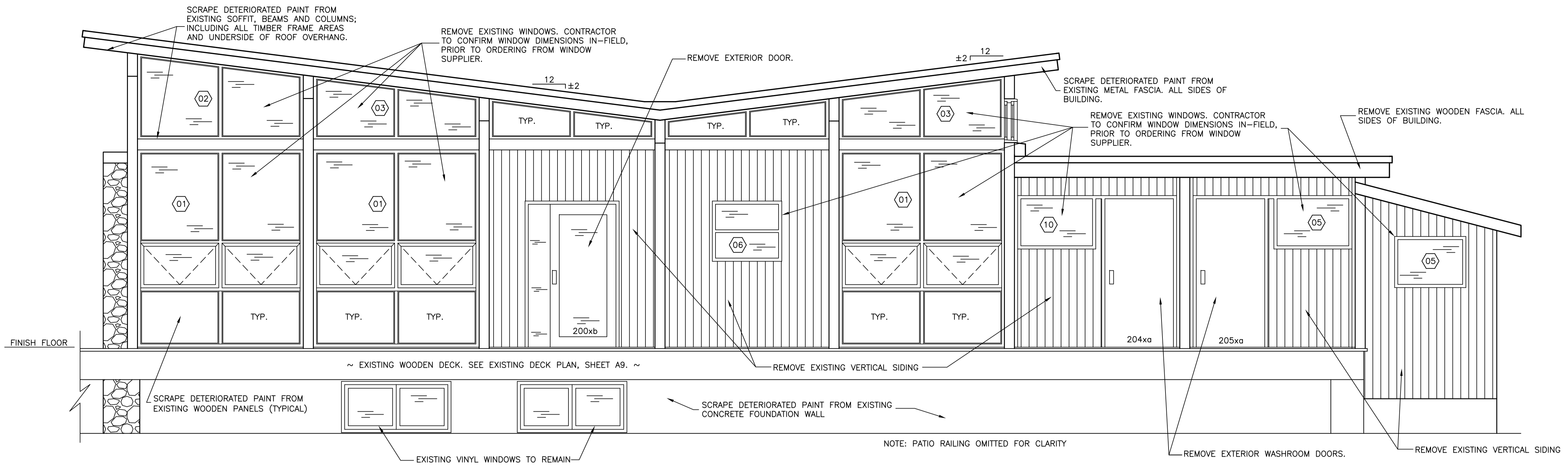
**PRO 000607**

drawing no. no. du dessin

**A4**

TIDS Document No. Not in System

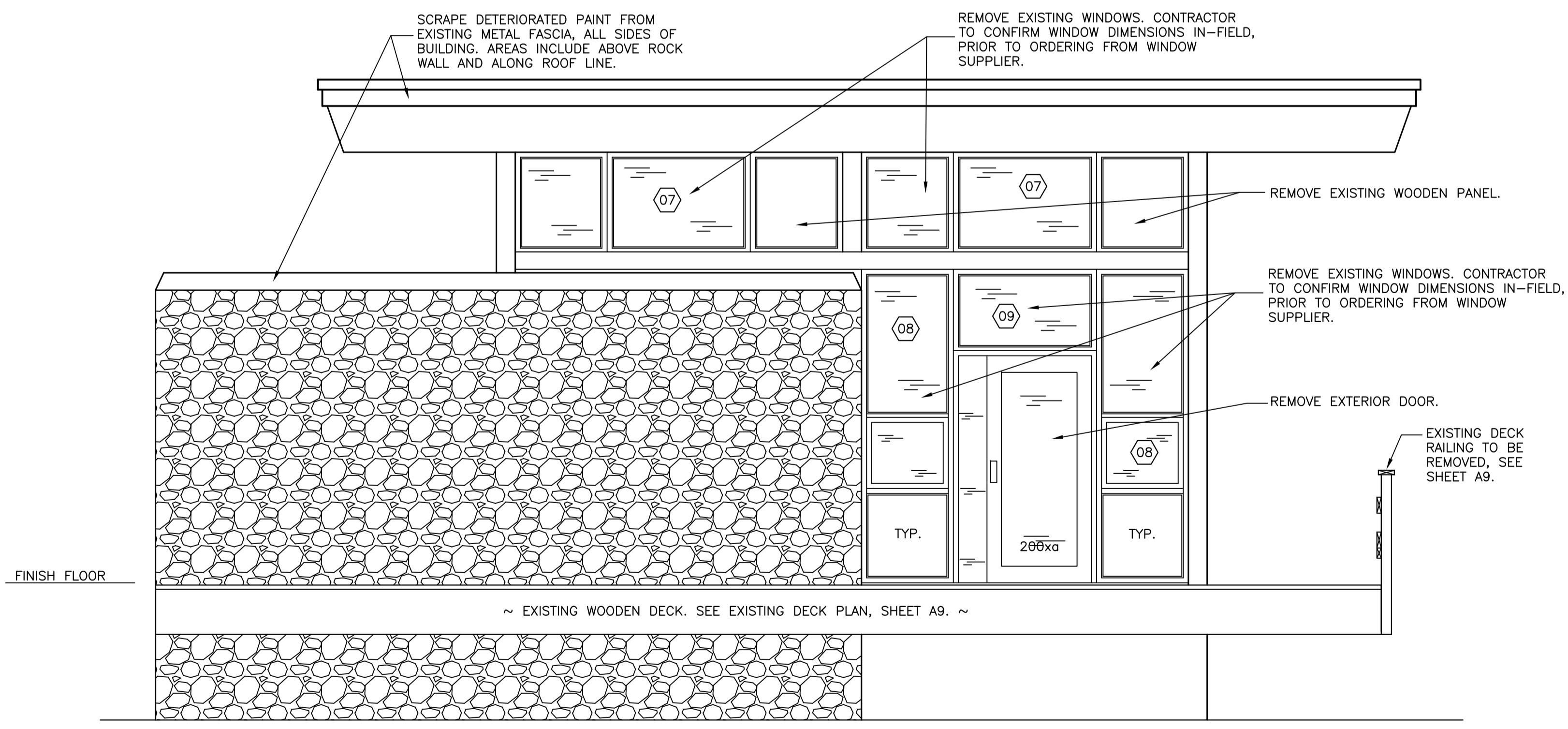




LEGEND:  
 (01) - WINDOW NUMBER (SEE WINDOW SCHEDULE)  
 200xa - DOOR NUMBER (SEE DOOR SCHEDULE)

**1 BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0 1' 2' 5' 10'

- NOTES:**
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  - REMOVE AND DISPOSE OF EXTERIOR WASHROOM SIGNS ("MEN" AND "WOMEN")



**2 BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0 1' 2' 5' 10'

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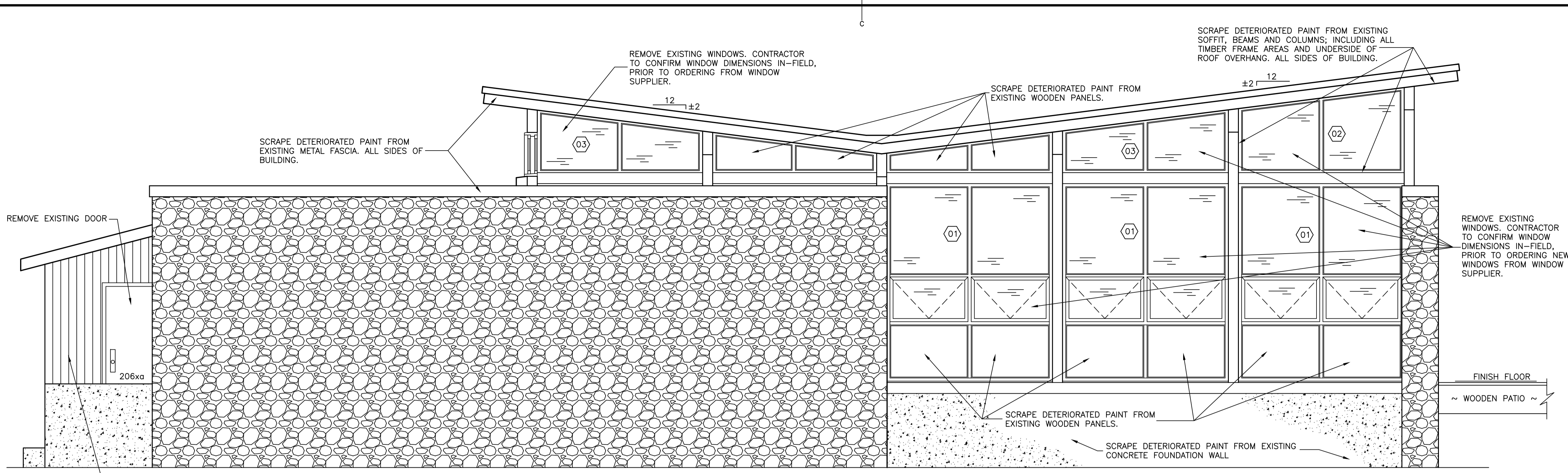
C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project projet  
**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**  
 drawing dessin

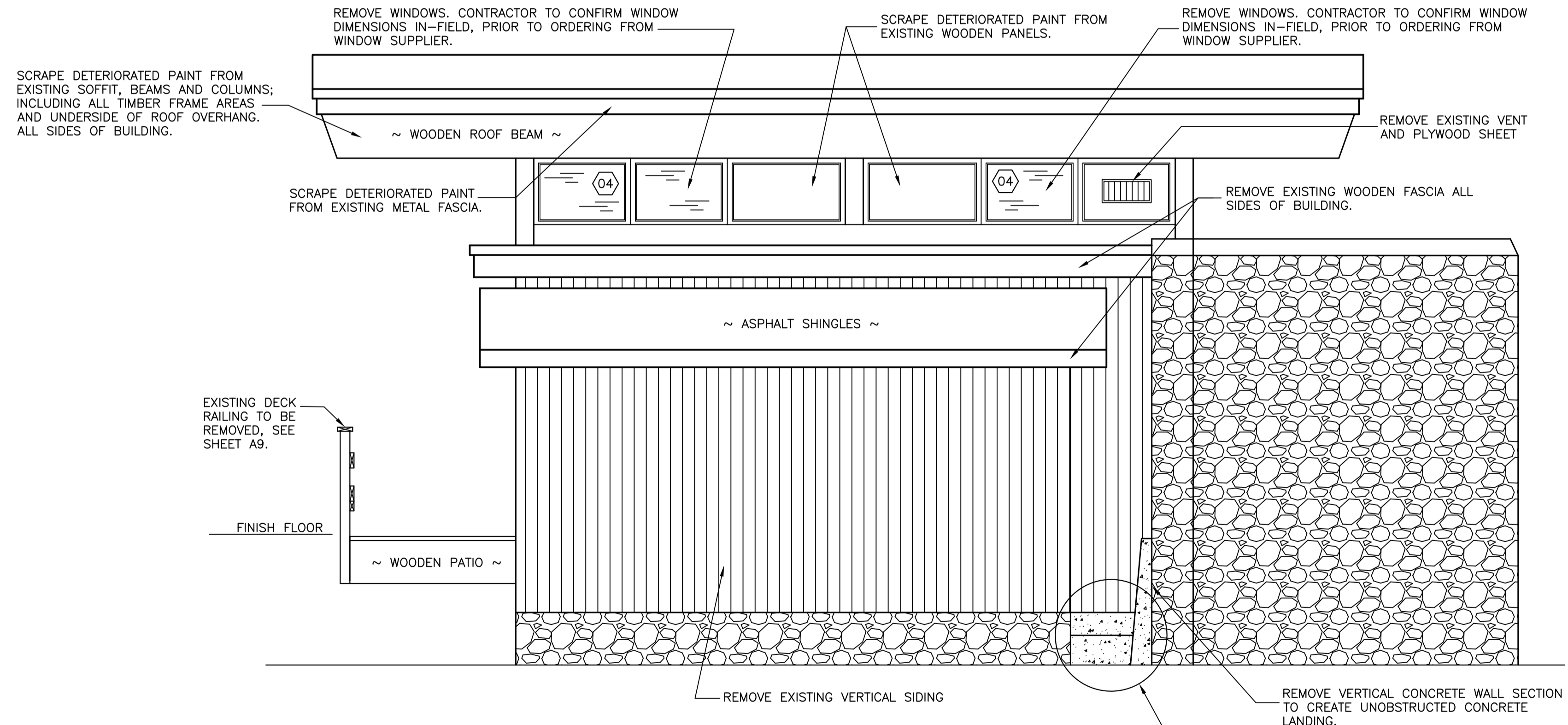
**EXISTING ECO-SCIENCE BUILDING ELEVATIONS C/W DEMOLITION - SOUTH/WEST**

designed K. FITZGERALD	conçu
date MARCH 2016	
drawn R. SNOW	dessiné
date MARCH 2016	
approved J. STRICKLAND	approuvé
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>A5</b>	



**1 BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0' 1' 2' 5' 10'

LEGEND:  
 (01) - WINDOW NUMBER (SEE WINDOW SCHEDULE)  
 200xa - DOOR NUMBER (SEE DOOR SCHEDULE)



**2 BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0' 1' 2' 5' 10'

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  - REMOVE LOOSE, FRAGMENTED, OR CRACKED CONCRETE TO EXPOSE A SOUND, COMPETENT SURFACE, TO THE ACCEPTANCE OF THE OWNER'S REPRESENTATIVE, PRIOR TO PLACEMENT OF NEW CONCRETE.

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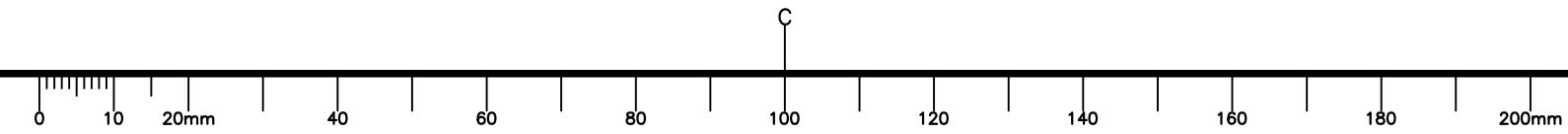
C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date

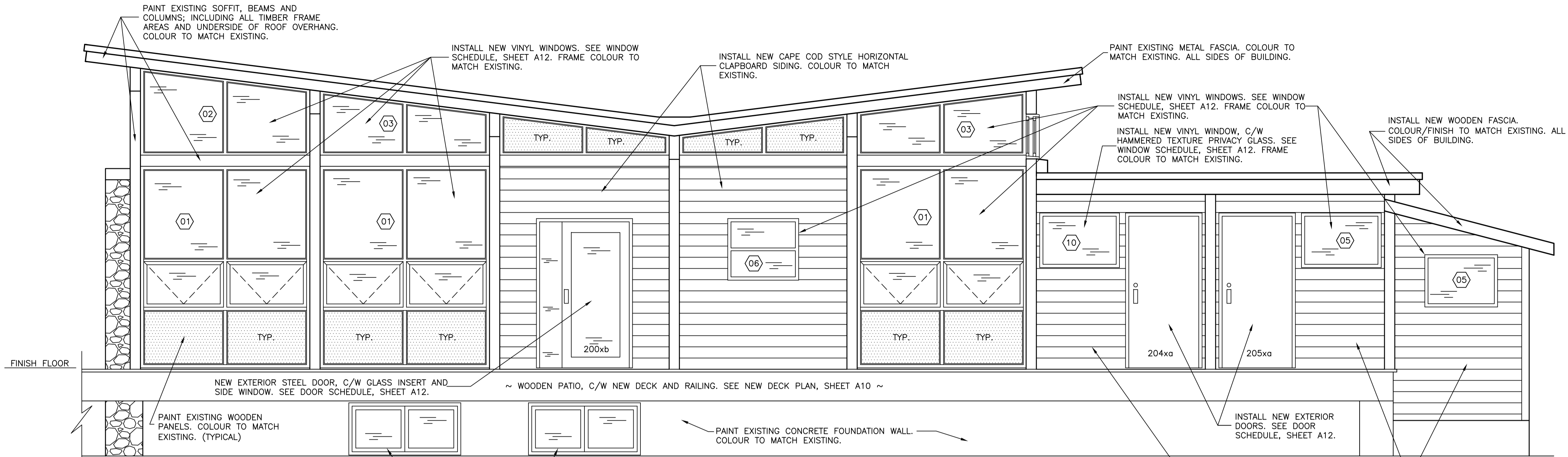
A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

drawing EXISTING ECO-SCIENCE BUILDING ELEVATIONS C/W DEMOLITION - NORTH/EAST

designed K. FITZGERALD	concu
date MARCH 2016	
drawn R. SNOW	dessine
date MARCH 2016	
approved J. STRICKLAND	approuve
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>A6</b>	

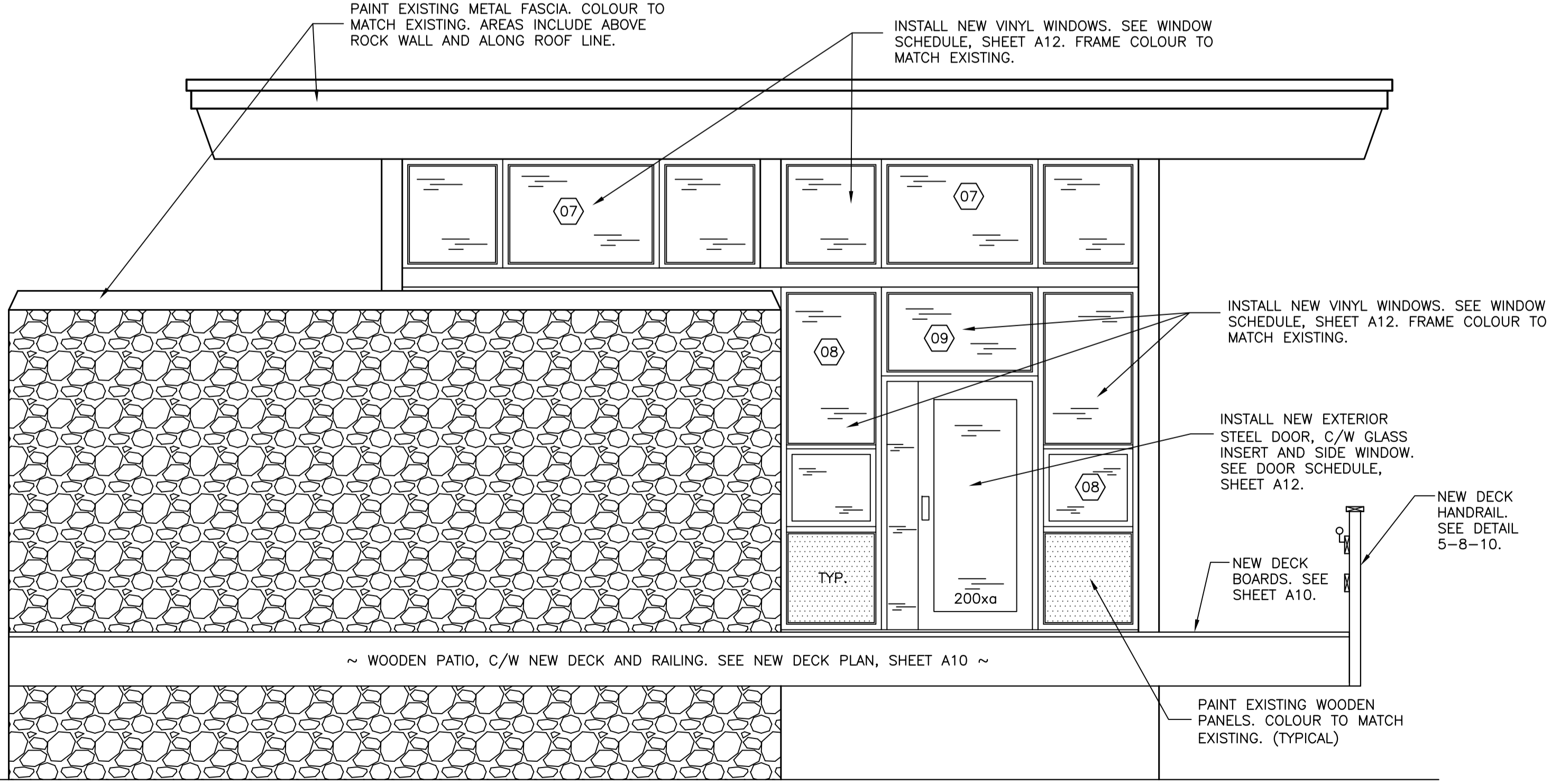




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**1 NEW BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0' 1' 2' 5' 10'



**2 NEW BUILDING ELEVATION**  
 SCALE: 3/8" = 1'  
 0' 1' 2' 5' 10'

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A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

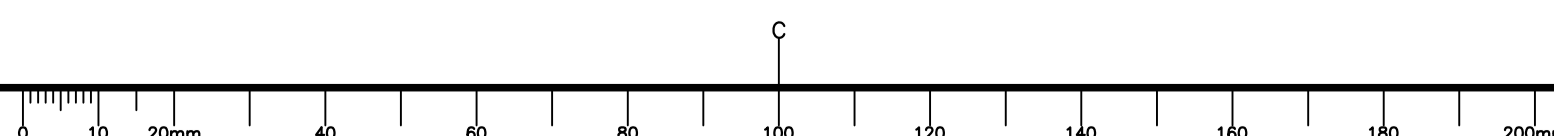
project \_\_\_\_\_ projet \_\_\_\_\_

**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

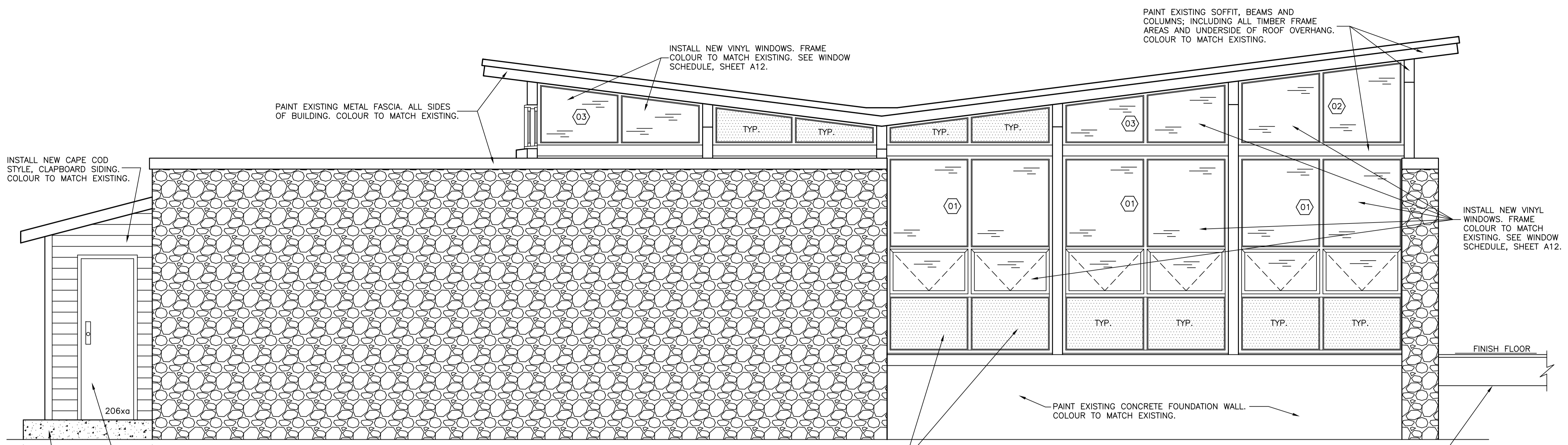
drawing \_\_\_\_\_ dessin \_\_\_\_\_

**EXISTING ECO-SCIENCE BUILDING ELEVATIONS C/W RENOVATIONS - SOUTH/WEST**

designed K. FITZGERALD	conçu
date MARCH 2016	
drawn R. SNOW	dessiné
date MARCH 2016	
approved J. STRICKLAND	approuvé
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
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drawing no.	no. du dessin
<b>A7</b>	



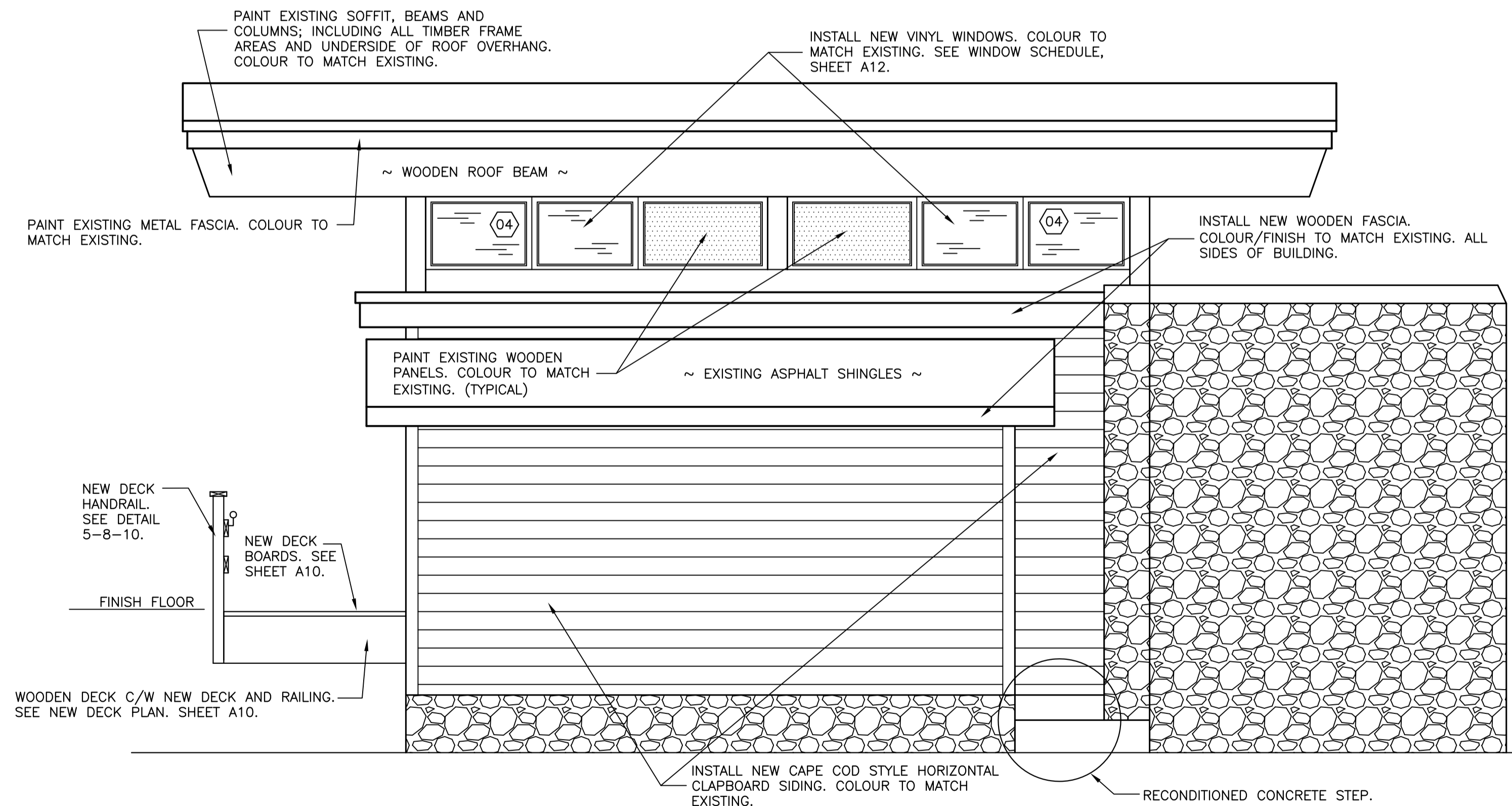




**LEGEND:**  
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 200xa - DOOR NUMBER (SEE DOOR SCHEDULE)

**1 NEW BUILDING ELEVATION**  
 SCALE: 3/8" = 1'

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  - ENSURE EXISTING CONCRETE IS ROUGHENED TO AN AMPLITUDE OF 5mm (MIN.), AND "WELDCRETE" BONDING AGENT (OR APPROVED EQUAL) IS APPLIED TO ALL CONCRETE INTERFACES.

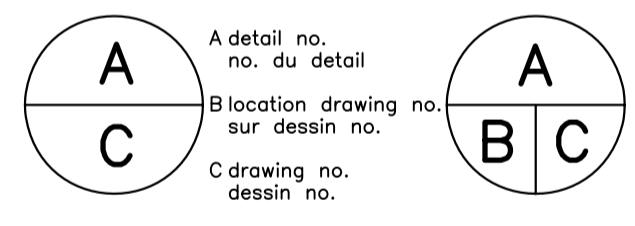


**2 NEW BUILDING ELEVATION**  
 SCALE: 3/8" = 1'

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
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A	ISSUED FOR 80% REVIEW	16/02/16
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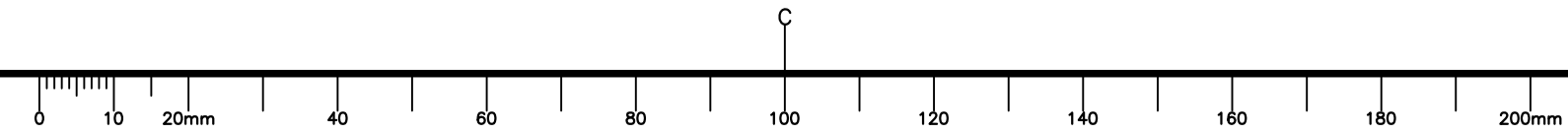


**ECO-SCIENCE BUILDING  
 RECAPITALIZATION  
 T.N.N.P., NL**

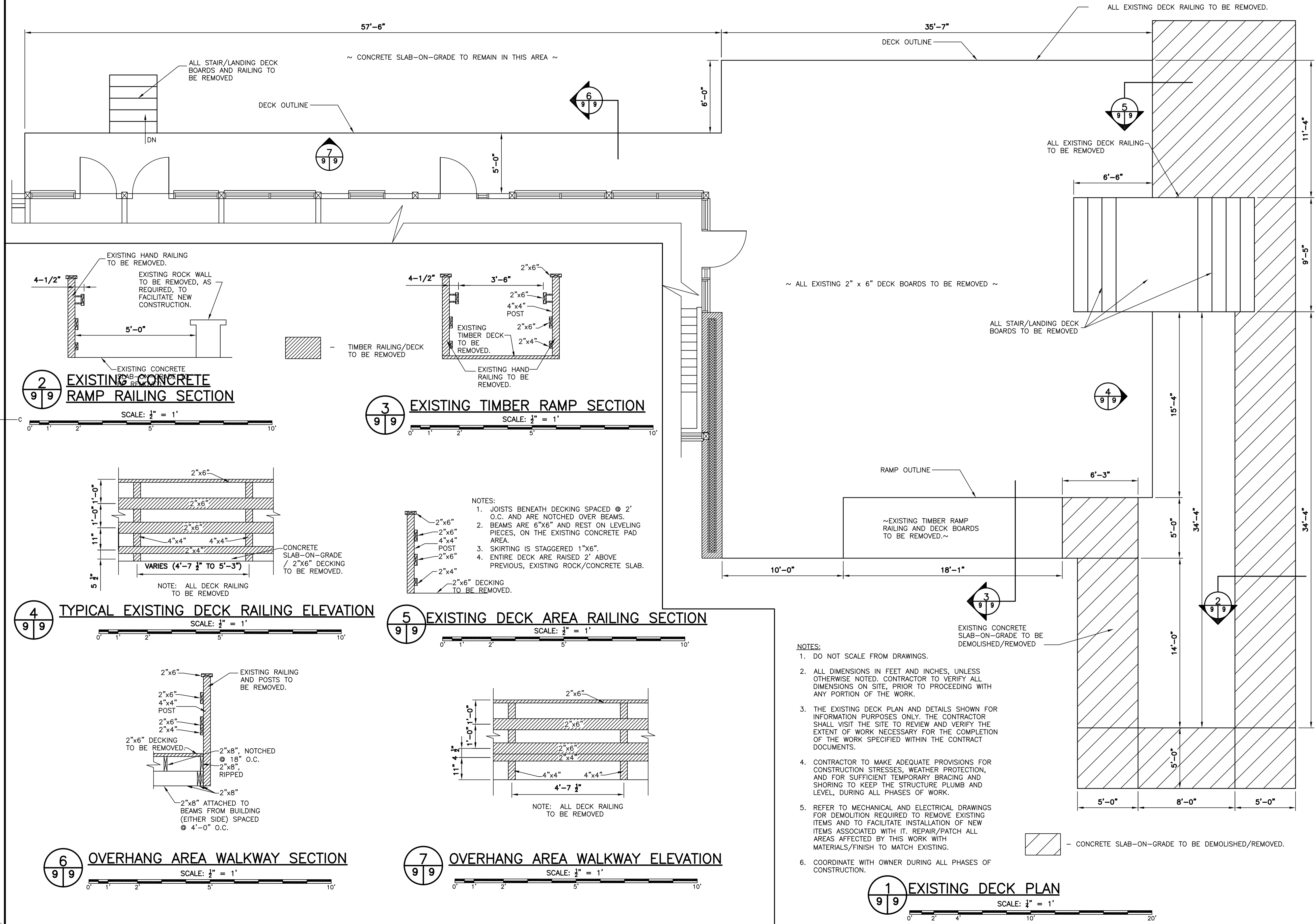
**EXISTING ECO-SCIENCE  
 BUILDING ELEVATIONS  
 C/W RENOVATIONS  
 - NORTH/EAST**

designed K. FITZGERALD	concu
date MARCH 2016	
drawn R. SNOW	dessine
date MARCH 2016	
approved J. STRICKLAND	approuve
date MARCH 2016	
Tender	Soumission

PWC Project Manager / Administrateur de projets TPC  
 project number / no. du projet  
**PRO 000607**  
 drawing no. / no. du dessin  
**A8**



NOTES:  
 1. ALL EXISTING DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO CONFIRM ALL DIMENSIONS IN FIELD.



PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
 This Permit Allows  
**Meridian Engineering Inc.**  
 To practice Professional Engineering in Newfoundland and Labrador.  
 Permit No. as Issued by PEG - N0453  
 which is valid for the year 2018.



C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	18/02/16
revisions		date

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project project

**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

drawing dessin

**EXISTING DECK PLAN, ELEVATIONS, AND SECTIONS C/W DEMOLITION**

designed K. FITZGERALD	concu
date MARCH 2016	
drawn R. SNOW	dessine
date MARCH 2016	
approved J. STRICKLAND	approuve
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>A9</b>	

**NOTES:**

- DO NOT SCALE FROM DRAWINGS.
- ALL DIMENSIONS IN FEET AND INCHES, UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE, PRIOR TO PROCEEDING WITH ANY PORTION OF THE WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION.
- ALL DEMOLISHED/RENOVATED AREAS TO BE REPAIRED TO MATCH EXISTING MATERIALS AND FINISH UNLESS NOTED OTHERWISE.

CONSTRUCT NEW TIMBER RAILING AROUND ENTIRE PERIMETER OF EXISTING DECK AREA, INCLUDING ALONG ALL RAMPS AND STAIRS. SEE DETAILS 2, 3, 4, AND 5 BELOW.

NEW TIMBER RAILING ALONG ENTIRE PERIMETER OF EXISTING DECK.

NEW DECK OUTLINE

2  
10/10

CONCRETE SLAB OUTSIDE RAMP AREA TO BE MIN 4" (100MM) THICK C/W 6" (150MM) COMPACTED GRANULAR BASE

CONSTRUCT NEW CURB RAMP TO ASPHALT PARKING LOT, WITH FLARED SIDES. SEE DETAIL 9-10-11.

~ INSTALL NEW 2" x 6" DECK BOARDS, ORIENTATION AND SPACING AS PER EXISTING ~

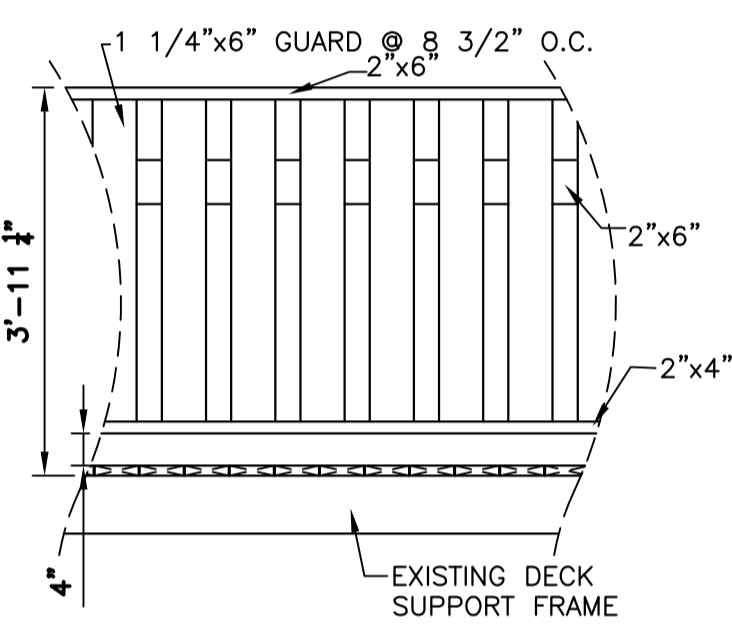
5  
10/10

NEW DECK OUTLINE

DN

INSTALL NEW DOORWAY THRESHOLDS AND ENSURE A SMOOTH TRANSITION FROM NEW DECK TO BUILDING INTERIOR. SEE DETAIL 1-10-11.

INSTALL NEW DOORWAY THRESHOLDS AND ENSURE A SMOOTH TRANSITION FROM NEW DECK TO BUILDING INTERIOR. SEE DETAIL 1-10-11.

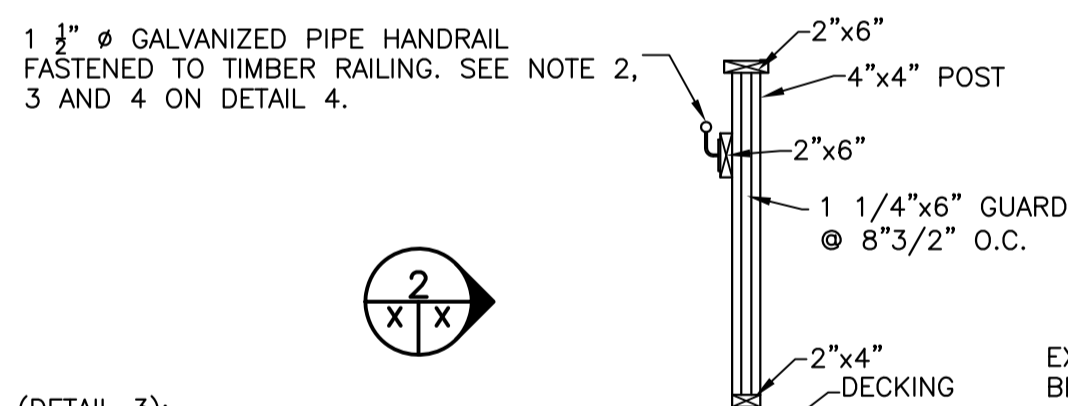


2 NEW TIMBER RAILING - ELEVATION (TYPICAL)

SCALE: 1/2" = 1'

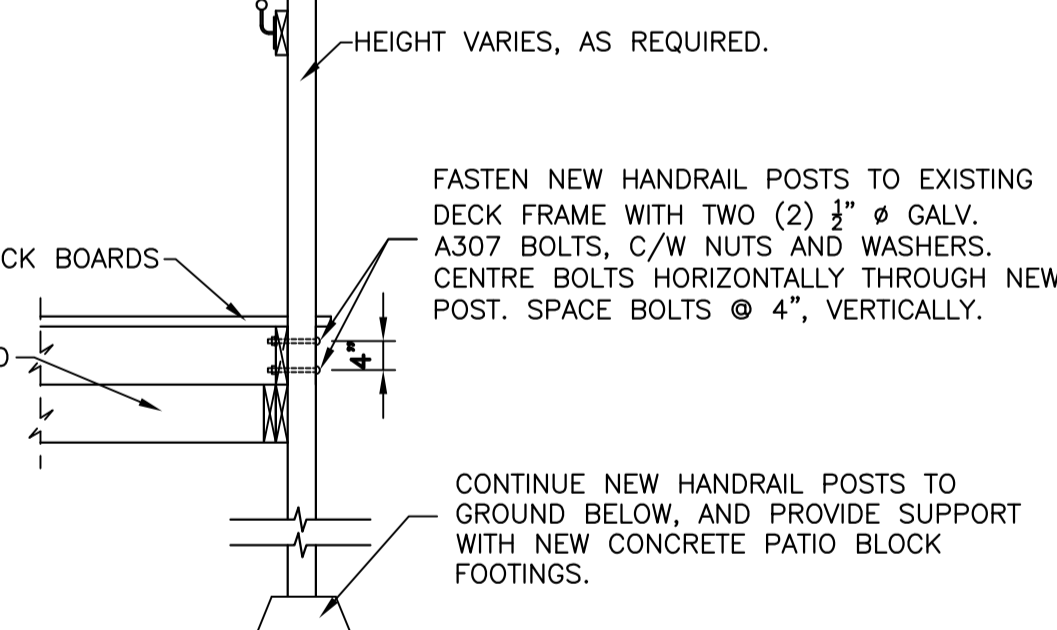
4 HANDRAIL POST CONNECTION TO EXISTING DECK

SCALE: 1/2" = 1'



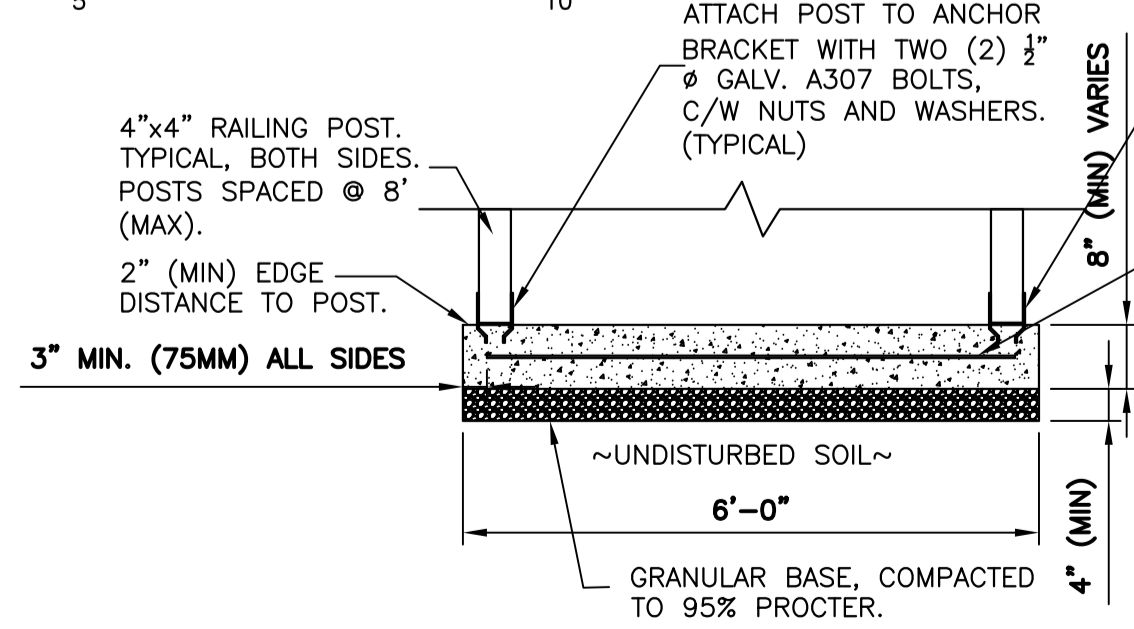
3 NEW TIMBER RAILING - SECTION (TYPICAL)

SCALE: 1/2" = 1'



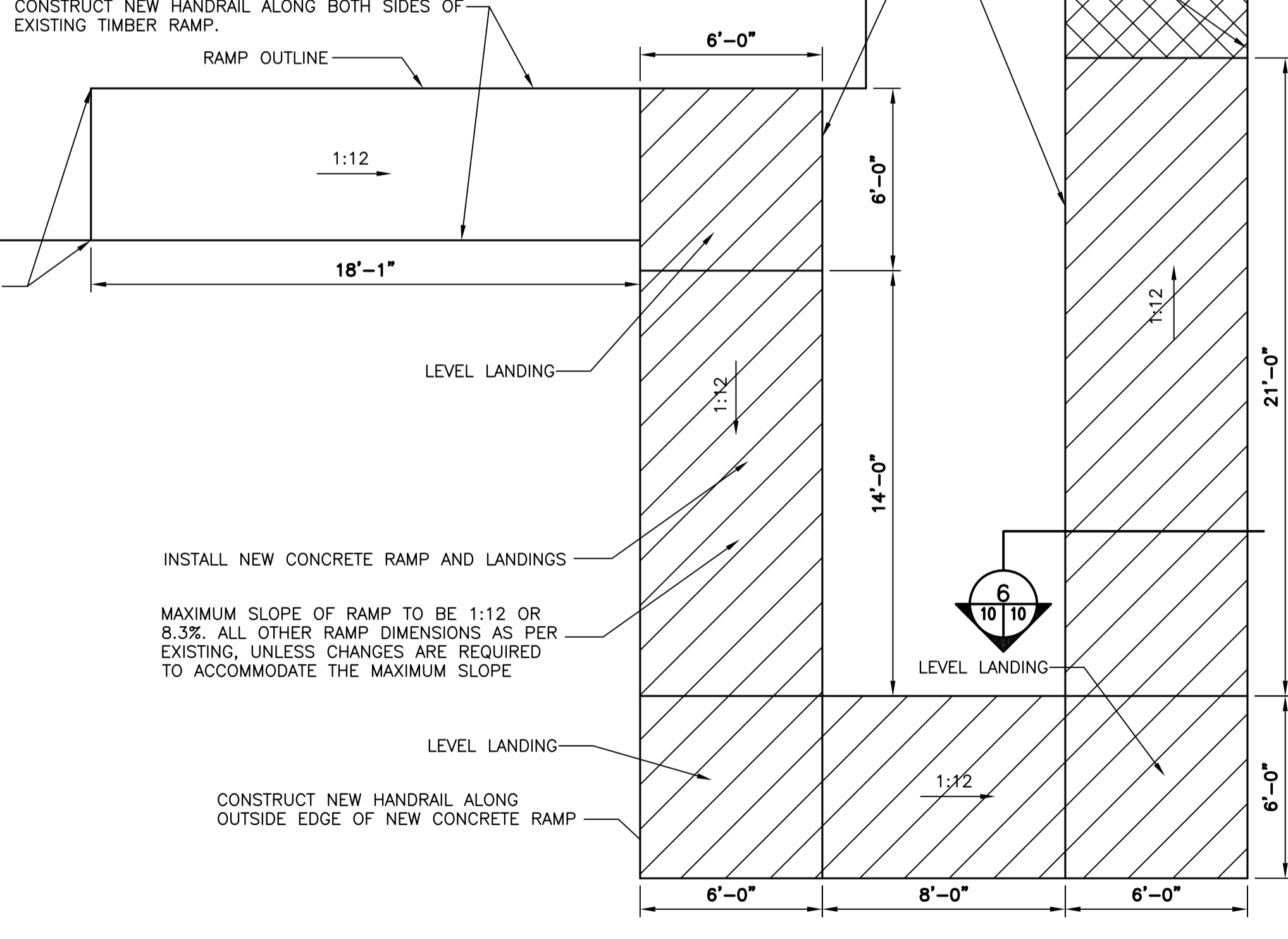
5 HANDRAIL POST CONNECTION TO EXISTING DECK - SOUTH DECK

SCALE: 1/2" = 1'



6 NEW CONCRETE RAMP SECTION C/W POST CONNECTION

SCALE: 1/2" = 1'



1 NEW DECK PLAN

SCALE: 1/2" = 1'

NEW CONCRETE RAMP/LANDING  
NEW CONCRETE SLAB-ON-GRADE

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PERMIT HOLDER  
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B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date

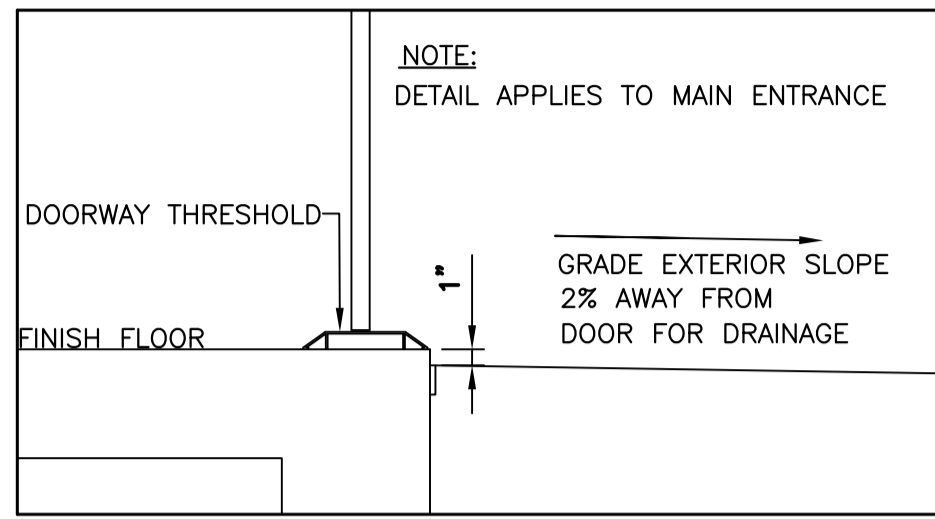
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C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project  
project  
**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

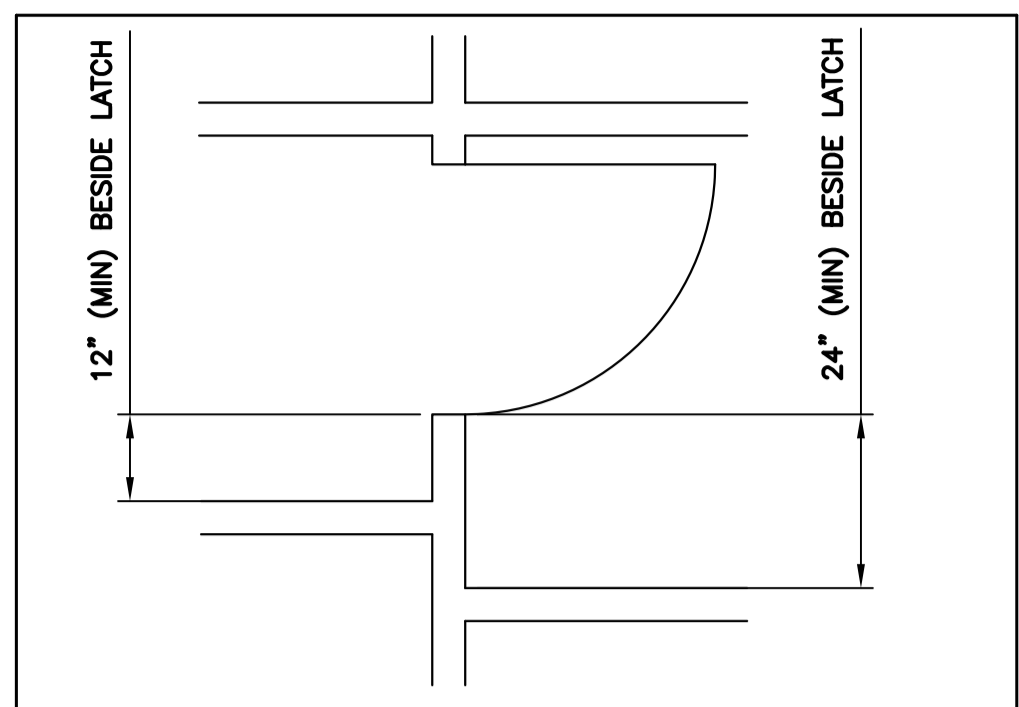
drawing  
dessin  
**NEW DECK PLAN, ELEVATIONS, AND SECTIONS C/W RENOVATIONS**

designed K. FITZGERALD  
date MARCH 2016  
drawn R. SNOW  
date MARCH 2016  
approved J. STRICKLAND  
date MARCH 2016  
Tender  
PWC Project Manager  
project number  
no. du projet

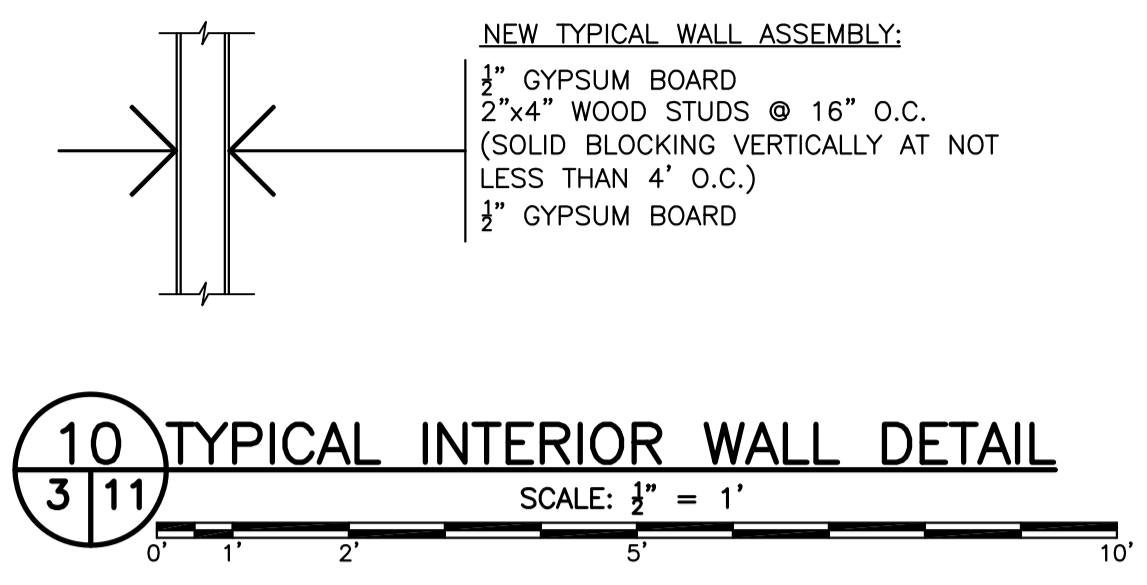
concu  
dessine  
approuve  
Soumission  
Administrateur de projets TPC  
no. du projet  
**PRO 000607**  
drawing no.  
no. du dessin  
**A10**



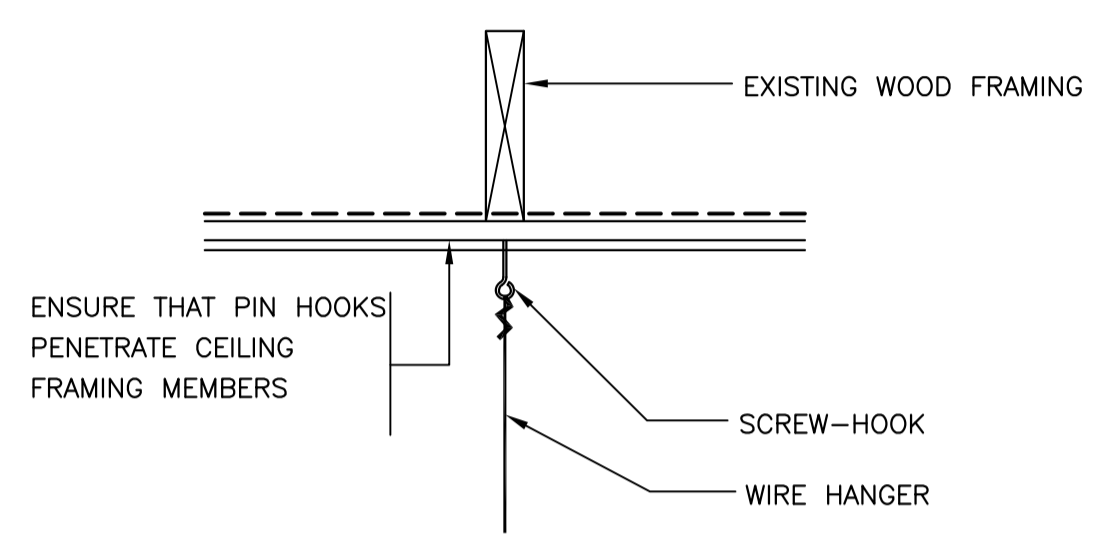
**1** DOORWAY THRESHOLD  
10/11 SCALE: 1" = 1'



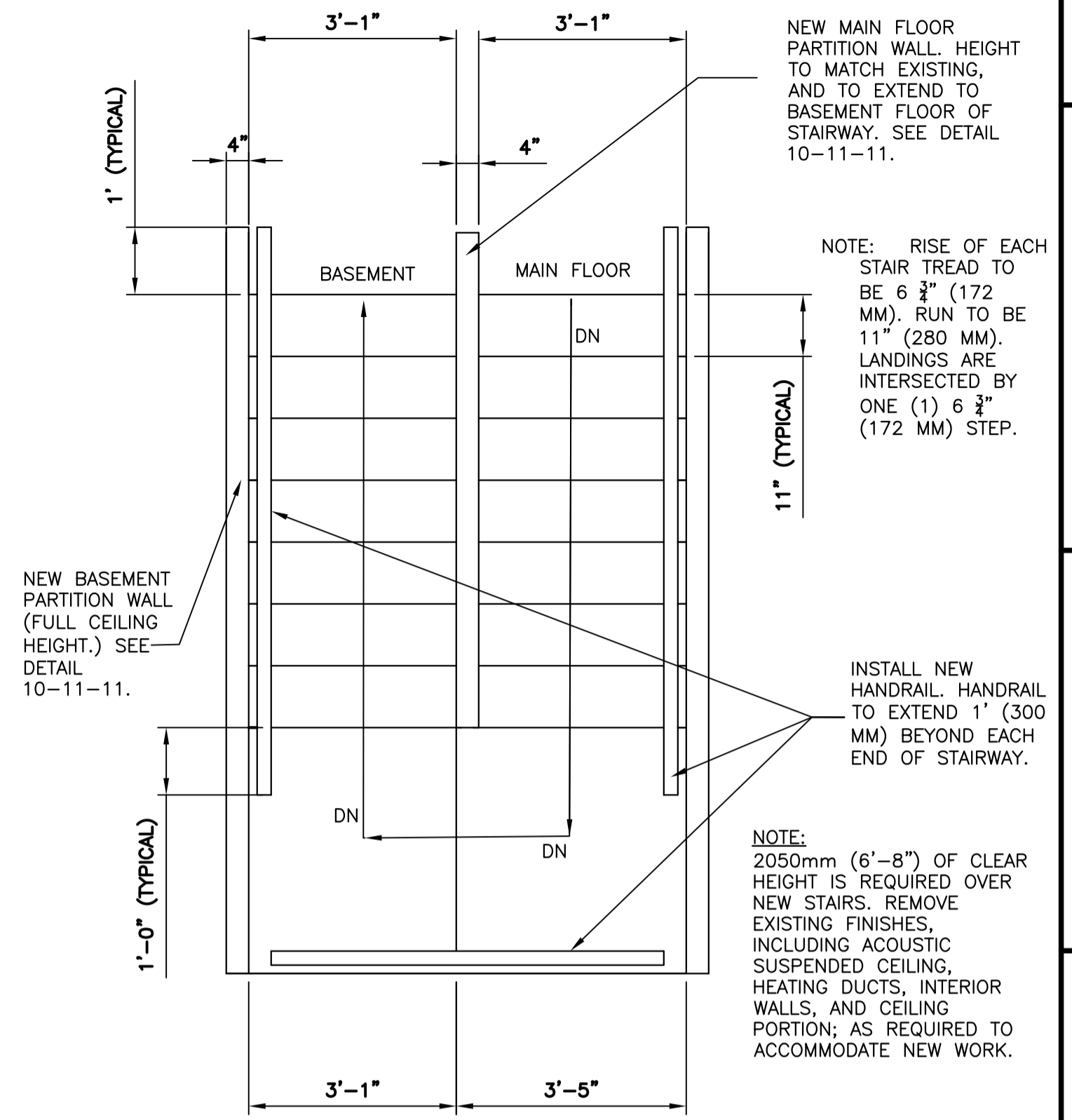
**2** PLAN - DOORWAYS (TYPICAL)  
11/11 SCALE: 1" = 1'



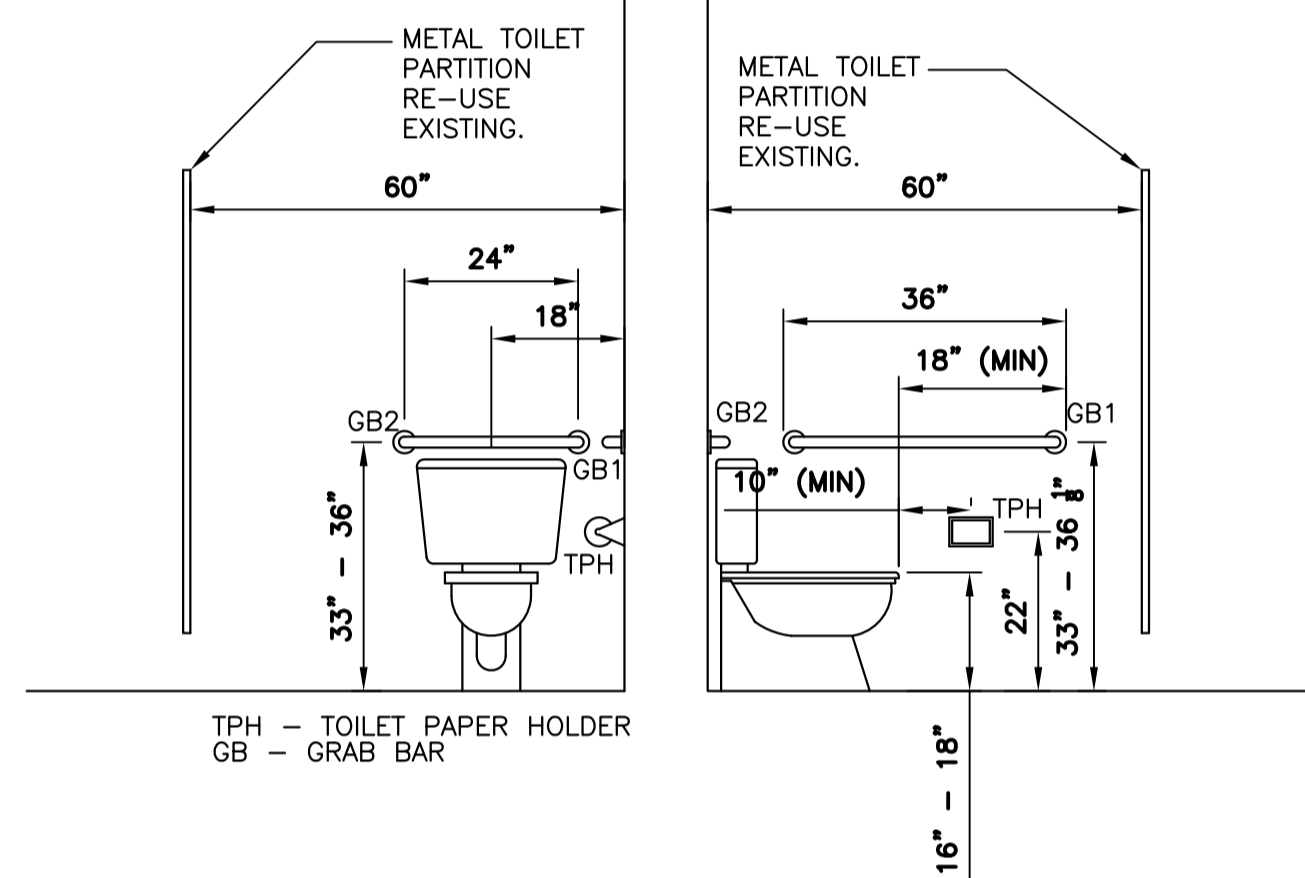
**10** TYPICAL INTERIOR WALL DETAIL  
3/11 SCALE: 1/2" = 1'



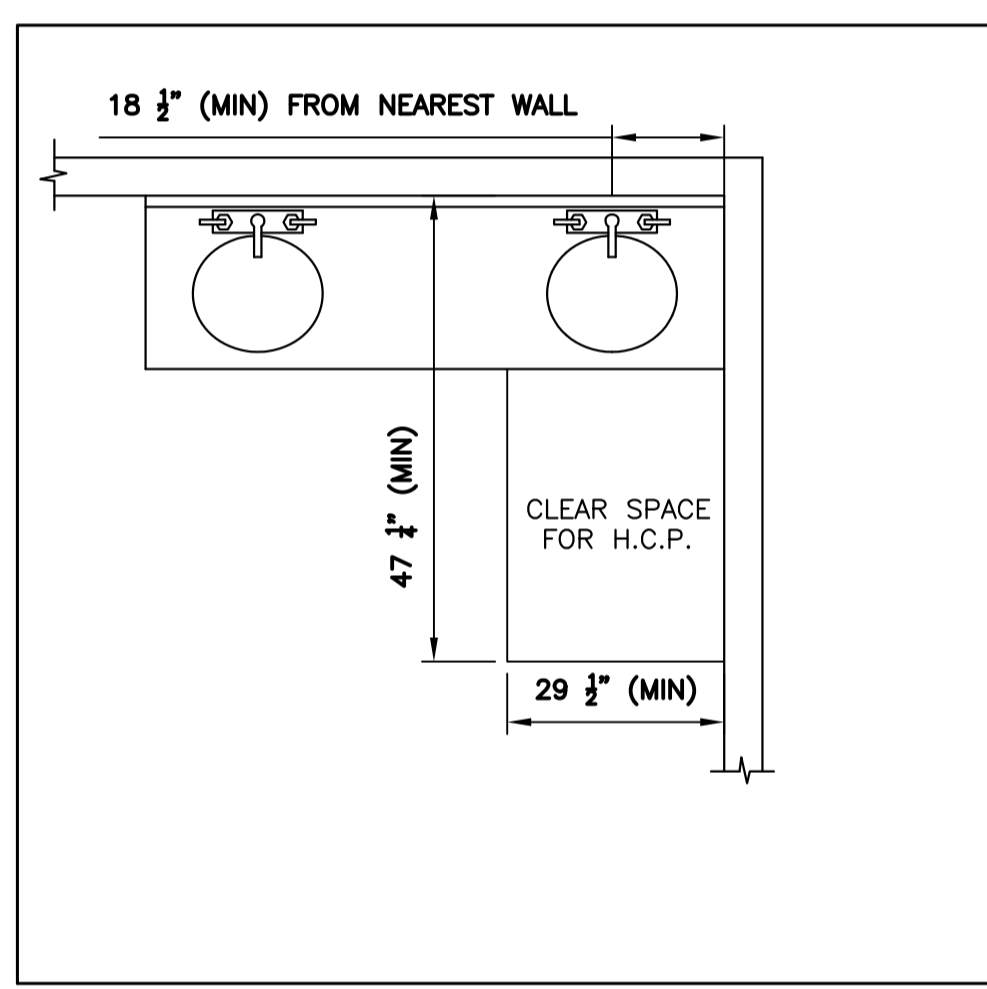
**12** TYPICAL ACOUSTICAL PANEL  
3/11 SUSPENDED CEILING DETAIL  
SCALE: N.T.S.



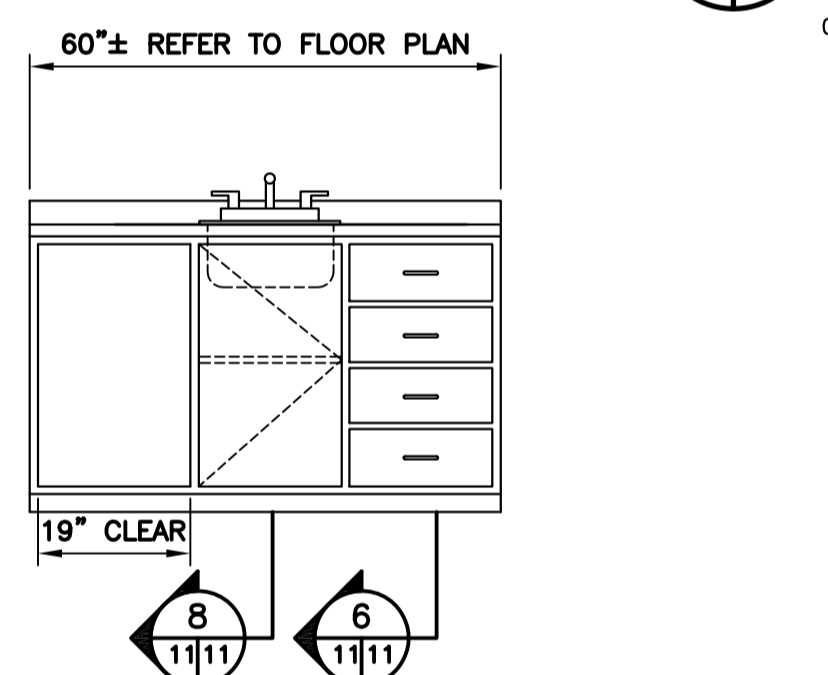
**11** NEW STAIRWAY CONFIGURATION - PLAN  
3/11 SCALE: 1/2" = 1'



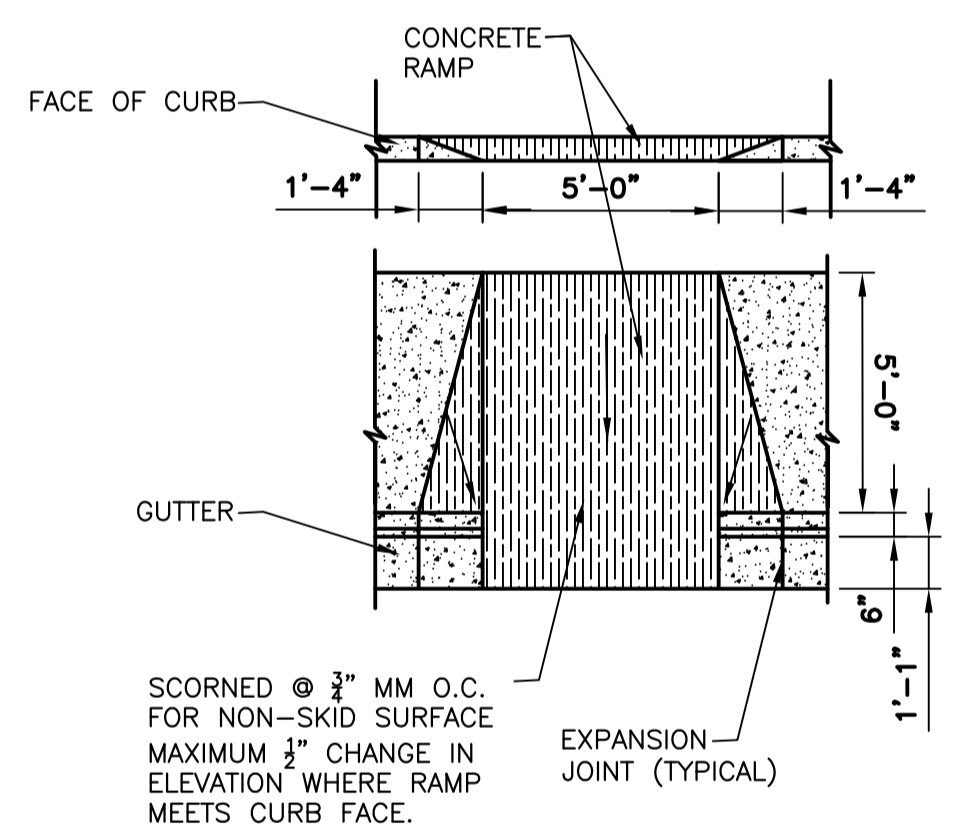
**3** ELEVATION - WASHROOM  
3/11 SCALE: 1/2" = 1'



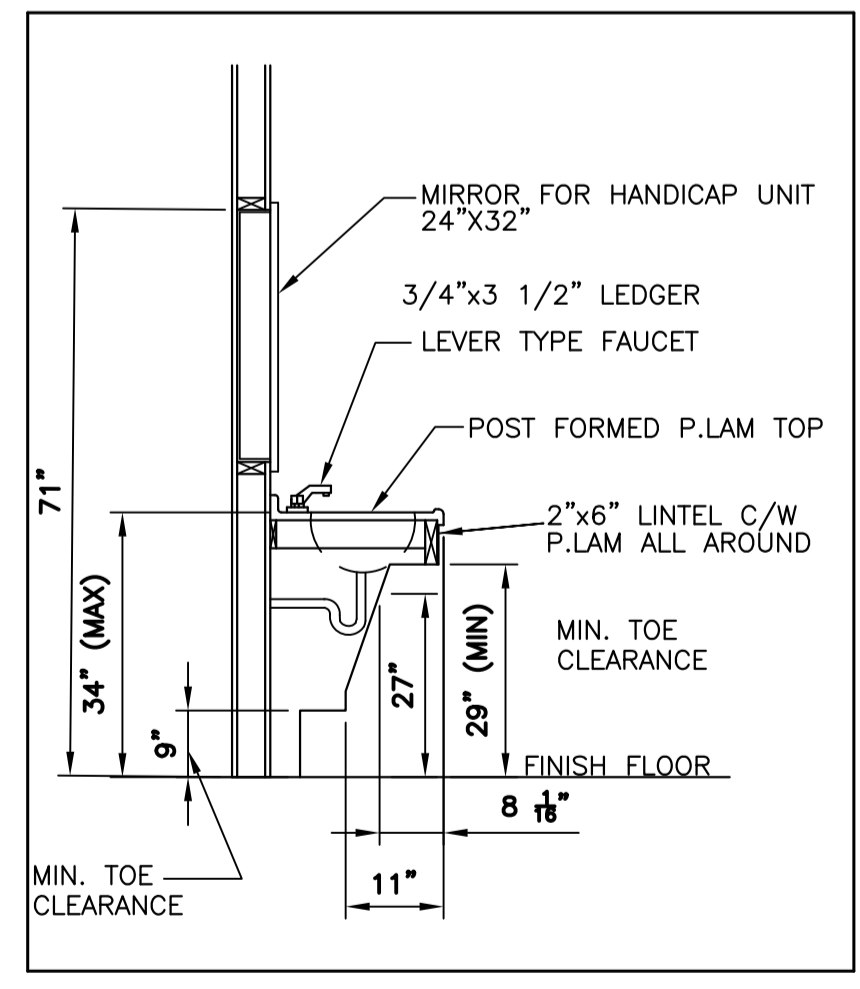
**5** HANDRAIL POST CONNECTION  
3/11 TO EXISTING DECK  
SCALE: 1/2" = 1'



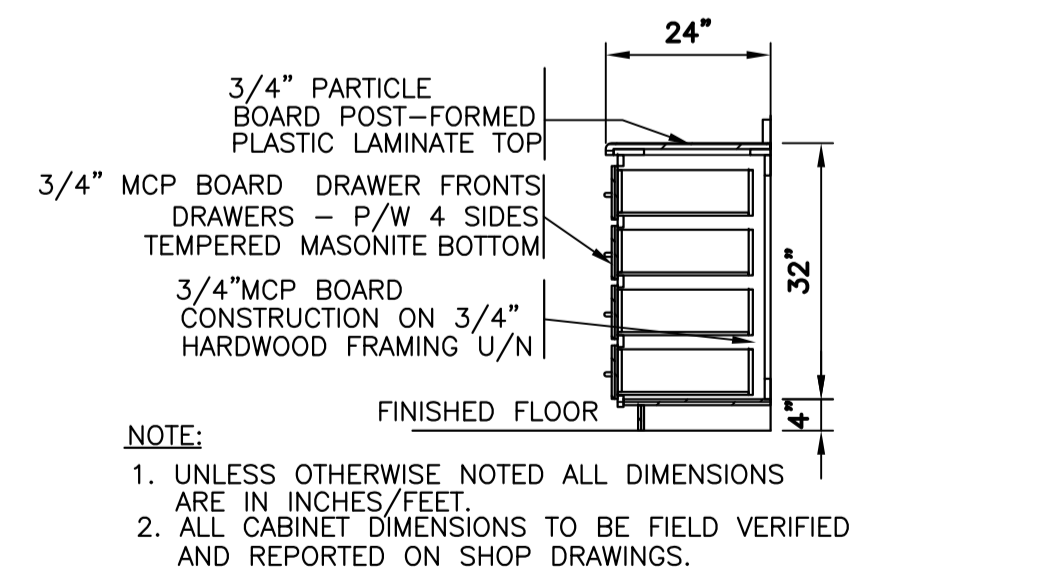
**7** ELEVATION - CABINETS  
3/11 4/11 SCALE: 1/2" = 1'



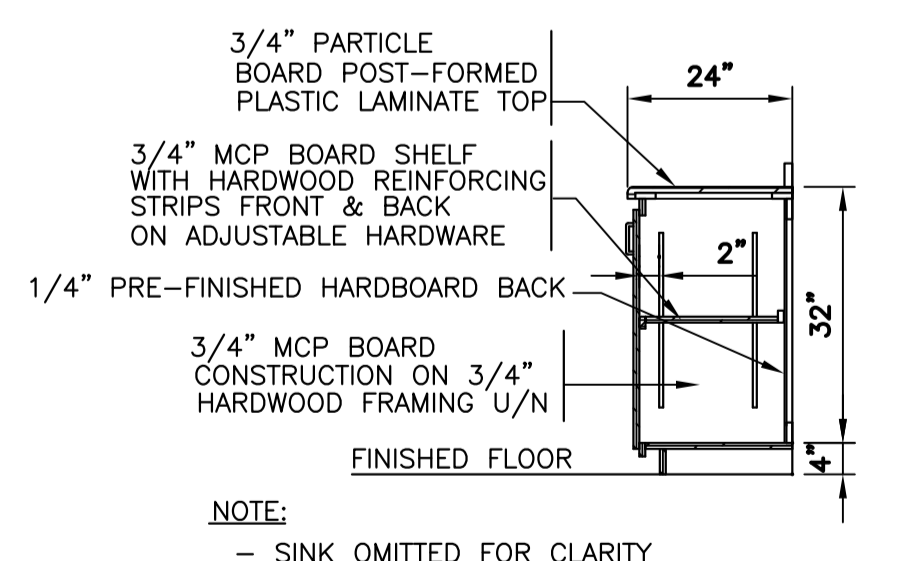
**9** NEW CURB RAMP DETAILS  
10/11 SCALE: 1/2" = 1'



**4** SECTION - WASHROOM VANITY  
3/11 SCALE: 1/2" = 1'



**6** SECTION - CABINETS  
11/11 SCALE: 1/2" = 1'



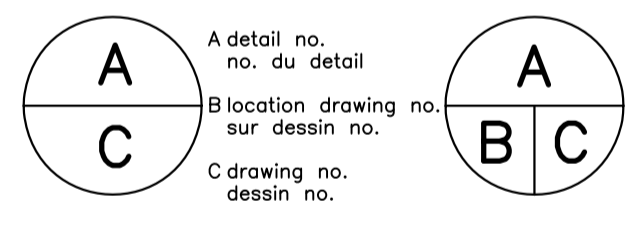
**8** SECTION - CABINETS  
11/11 SCALE: 1/2" = 1'

- NOTES:
- DO NOT SCALE FROM DRAWINGS.
  - ALL DIMENSIONS ARE IN INCHES/FEET UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK.
  - ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION AND THE CSA 086.1, LATEST EDITION.
  - PROVIDE ALL NECESSARY TRIM/FINISH FOR ALL NEW DOORS, WINDOWS, OPENINGS, PATCH/REPAIR WORK, ETC.
  - ALL CABINET DIMENSIONS TO BE FIELD VERIFIED AND REPORTED ON SHOP DRAWINGS.

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
Meridian Engineering Inc.  
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG No. 0453 which is valid for the year 2016.



C	ISSUED FOR TENDER	24/03/16
B	ISSUED FOR 100% REVIEW	04/03/16
A	ISSUED FOR 80% REVIEW	16/02/16
revisions		date



ECO-SCIENCE BUILDING  
RECAPITALIZATION  
T.N.N.P., NL

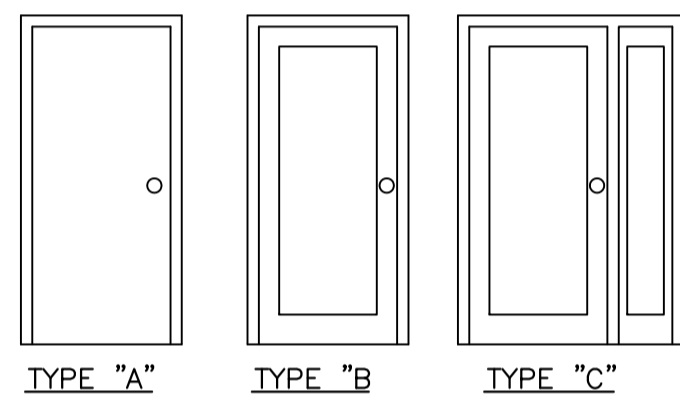
designed K. FITZGERALD	conçu
date MARCH 2016	
drawn R. SNOW	dessiné
date MARCH 2016	
approved J. STRICKLAND	approuvé
date MARCH 2016	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>A11</b>	

**DOOR SCHEDULE**

DOOR SIZE			DOOR				FRAME (OR SCREEN)		FIRE LABEL OR GRILL	HARDWARE GROUP	REMARKS
NUMBER	WIDTH	HEIGHT	TYPE	MATERIAL	CORE	FINISH	TYPE	FINISH			
100a	762	1969	A	-	-	PAINT/PRIME	-	PAINT	-	-	EXISTING TO BE SALVAGED AND REINSTALLED. REPAINT.
102a	762	1969	A	-	-	PAINT/PRIME	-	PAINT	-	-	EXISTING TO REMAIN. DOOR IS NOT INSTALLED ON HINGES. CONTRACTOR TO REINSTALL. REPAINT.
200xa	813	2057	C	METAL/GLASS	-	PAINT/PRIME	METAL	PAINT	-	H1	EXISTING TO BE REPLACED WITH NEW, AS INDICATED. C/W 9" WIDE GLASS SIDE LIGHT.
200xb	813	2057	C	METAL/GLASS	-	PAINT/PRIME	METAL	PAINT	-	H1	EXISTING TO BE REPLACED WITH NEW, AS INDICATED. C/W 9" WIDE GLASS SIDE LIGHT.
200c	610	2007	A	-	-	-	-	PAINT	-	-	EXISTING DOOR AND FRAME TO BE REMOVED.
200D	-	-	-	-	-	-	-	PAINT	-	-	EXISTING FRAME TO BE REMOVED. DOOR CURRENTLY REMOVED FROM FRAME
201a	813	2032	A	-	-	PAINT/PRIME	-	PAINT	-	-	EXISTING DOOR TO REMAIN. REPAINT.
202a	813	2007	A	-	-	PAINT/PRIME	-	PAINT	-	-	EXISTING TO REMAIN. REPAINT.
204xa	914	2007	A	METAL	INSULATED	PAINT/PRIME	WOOD	PAINT	-	H1	EXISTING TO BE REPLACED WITH NEW, AS INDICATED.
204b	914	2032	A	METAL	INSULATED	PAINT/PRIME	METAL	PAINT	45 MIN.	H4	NEW DOOR AND FRAME. FIRE RATED 45 MINUTES, MIN.
205xa	914	2007	A	METAL	INSULATED	PAINT/PRIME	WOOD	PAINT	-	H1	EXISTING TO BE REPLACED WITH NEW, AS INDICATED.
206xa	914	2032	A	METAL	INSULATED	PAINT/PRIME	WOOD	PAINT	-	H1	EXISTING TO BE REPLACED WITH NEW, AS INDICATED.
206b	914	2134	B	WOOD	SOLID	PAINT/PRIME	WOOD	PAINT	-	H2	EXISTING TO BE REPLACED WITH NEW, AS INDICATED.
207a	813	2007	A	WOOD	SOLID	PAINT/PRIME	WOOD	PAINT	-	H2	NEW DOOR TO MATCH EXISTING DOOR 202a.

NOTE: ALL DOOR SIZES TO BE CONFIRMED, IN-FIELD, BY THE CONTRACTOR, PRIOR TO ORDERING FROM DOOR SUPPLIER.  
ALL DOOR HARDWARE TO BE AS PER EXISTING FOR EXISTING DOORS TO BE REPLACED.

**DOOR TYPES:**



**HARDWARE GROUPS:**

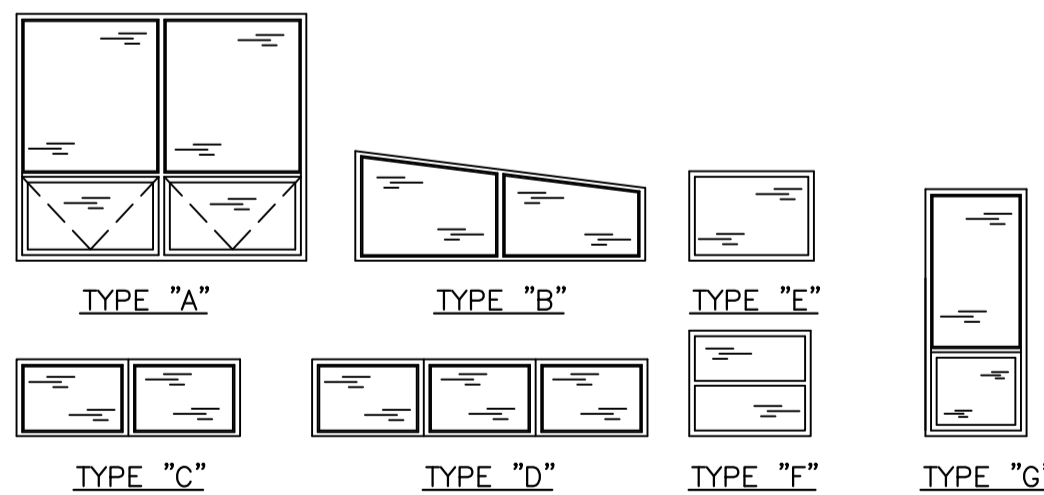
- H1**
  - 3 HINGES
  - KEY IN LEVER LEVERSET, TP9250 AND PD:
  - OR APPROVED EQUAL
  - 1 CLOSER
  - 1 THRESHOLD (13mm)
  - 1 SET WEATHER STRIP
- H2**
  - 3 HINGES
  - STOREROOM LEVERSET, LSDA 1400
  - OR APPROVED EQUAL
  - 1 CLOSER
  - 1 STOP
- H3**
  - 3 HINGES
  - PASSAGE LEVERSET, LSDA 1100
  - OR APPROVED EQUAL
  - 1 STOP
- H4**
  - 3 HINGES
  - KEY IN LEVER LEVERSET, LSDA 1000
  - OR APPROVED EQUAL
  - 1 CLOSER
  - 1 STOP

**WINDOW SCHEDULE**

NUMBER	QUANTITY	SIZE	FINISH	MATERIAL	TYPE	REMARKS
01	6	1917 X 2305	TAN	VINYL	A	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING. LOWER WINDOW PANES TO OPEN, AS PER EXISTING.
02	2	1193 X 902 X 2305	TAN	VINYL	B	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
03	4	883 X 597 X 2305	TAN	VINYL	B	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
04	2	610 X 1847	TAN	VINYL	C	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
05	2	610 X 1015	TAN	VINYL	E	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
06	1	1252 X 1550	TAN	VINYL	F	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
07	2	895 X 2883	TAN	VINYL	D	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING. INCLUDES REPLACEMENT OF WOODEN PANEL WITH NEW GLASS WINDOW PANE. SIDE PANES TO OPEN, AS PER EXISTING.
08	2	1917 X 845	TAN	VINYL	G	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
09	1	723 X 1193	TAN	VINYL	E	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING.
10	1	610 X 1015	TAN	VINYL	E	EXISTING TO BE REMOVED/REPLACED. COLOUR TO MATCH EXISTING. GLASS PANE TO BE HAMMERED TEXTURE PRIVACY GLASS.

NOTE:  
1. ALL WINDOW SIZES TO BE CONFIRMED, IN-FIELD, BY THE CONTRACTOR, PRIOR TO ORDERING FROM WINDOW SUPPLIER.  
2. FOR R.S.O., CHECK WITH MANUFACTURER'S RECOMMENDATIONS.

**WINDOW TYPES:**



**MIRROR SCHEDULE**

LOCATION	NO. REQ'D.	SIZE	HEIGHT
204 WASHROOM.	1	24" x 32" (600 X 800MM)	39 1/2" (1000MM)

**ROOM FINISH SCHEDULE**

ROOM		FLOOR		WALLS			CEILING	
NAME (EXISTING)	NUMBER	MATERIAL (EXISTING)	FINISH	BASE	MATERIAL (EXISTING)	FINISH	MATERIAL (EXISTING)	FINISH
BASEMENT MAIN AREA (N/A)	100	R.S.F.	-	R.B.	G.B.	PLASTER/PAINT	(S.C.)	-
UNDER STAIRS STORAGE (N/A)	101	R.S.F.	-	-	G.B.	-	G.B.	-
BASEMENT STORAGE (N/A)	102	R.S.F.	-	R.B.	G.B.	PAINT	(S.C.)	-
MAIN AREA (INFORMATION-PUBLIC AREA)	200	R.S.F.	-	R.B.	G.B.(G.B.)	PLASTER/PAINT	(G.B.)	PLASTER/PAINT
FURNACE ROOM (FURNACE ROOM)	201	-	-	-	-	-	-	-
OFFICE #1 (OFFICE)	202	R.S.F.	-	R.B.	G.B.	PLASTER/PAINT	G.B.	PLASTER/PAINT
HALLWAY (CLOSET)	203	R.S.F.	-	R.B.	(G.B.)	PLASTER/PAINT	(G.B.)	PLASTER/PAINT
WASHROOM (MEN'S TOILET ROOM)	204	R.S.F.	PAINT	R.B.	G.B.	PLASTER/PAINT	G.B.	PLASTER/PAINT
STAIRWELL (STAIRWELL)	206	(CC)	PAINT	R.B.	P.W. (CC)	PAINT	P.W.	PAINT
OFFICE #2 (INFORMATION - PUBLIC AREA)	207	R.S.F.	-	R.B.	G.B.	PLASTER/PAINT	G.B.	PLASTER/PAINT

(EXISTING) - REFERS TO EXISTING MATERIAL TO BE REFINISHED, AS INDICATED ON THE DRAWINGS.  
CC - CONCRETE R.B. - RUBBER BASE R.S.F. - RESILIENT SHEET FLOORING P.W. - 1/2" PLYWOOD SHEATING  
G.B. - 1/2" GYPSUM BOARD S.C. - SUSPENDED CEILING W.P. - WOOD WALL PANEL

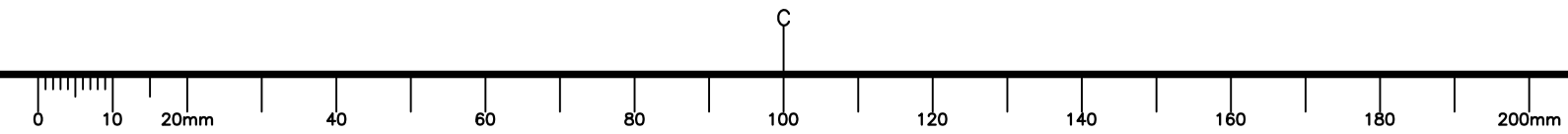
PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PEG** PERMIT HOLDER  
 This Permit Allows  
 Meridian Engineering Inc.  
 To practice Professional Engineering in Newfoundland and Labrador.  
 Permit No. as issued by PEG\_N0463 which is valid for the year 2016.

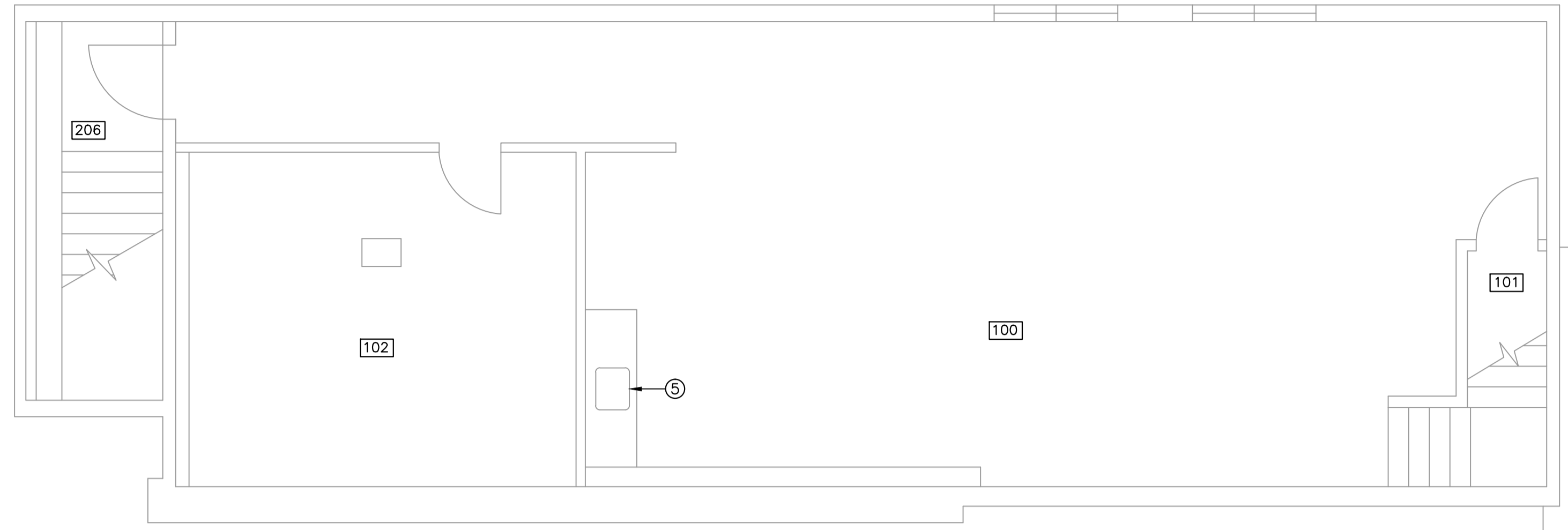


revisions	date
C	ISSUED FOR TENDER 24/03/16
B	ISSUED FOR 100% REVIEW 04/03/16
A	ISSUED FOR 80% REVIEW 16/02/16

A detail no. no. du detail  
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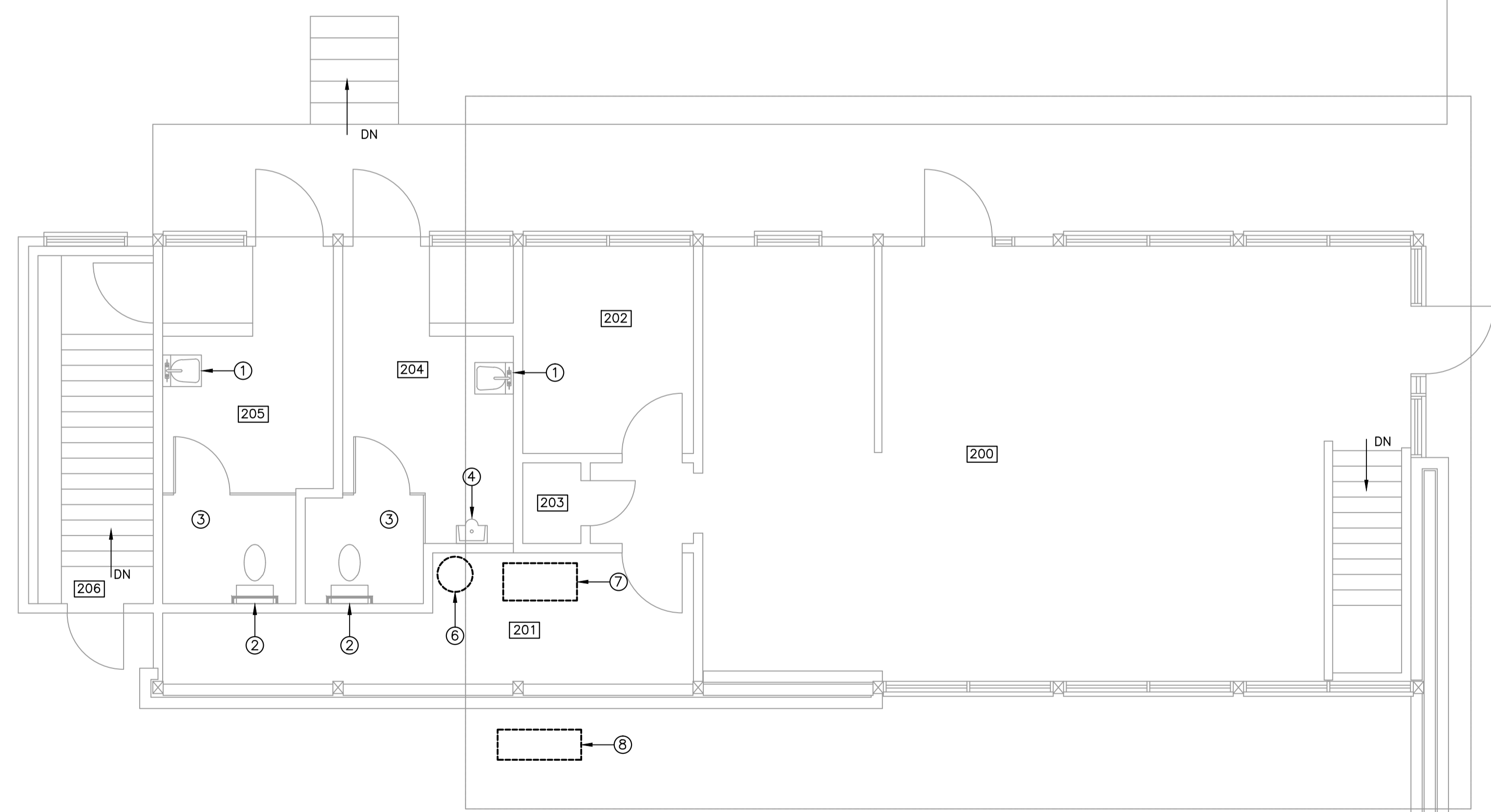
project projet  
**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**  
 drawing dessin  
**DETAILS - 2**  
 designed K. FITZGERALD conçu  
 date MARCH 2016  
 drawn R. SNOW dessiné  
 date MARCH 2016  
 approved J. STRICKLAND approuvé  
 date MARCH 2016  
 Tender Soumission  
 PWC Project Manager Administrateur de projets TPC  
 project number no. du projet  
**PRO 000607**  
 drawing no. no. du dessin  
**A12**





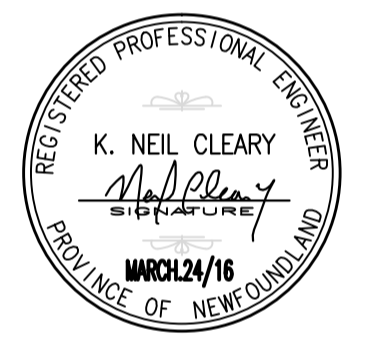
PARTIAL DEMOLITION BASEMENT FLOOR PLAN - MECHANICAL LAYOUT  
SCALE: 1:50

- DEMOLITION FLOOR PLAN NOTES:**
- ① REMOVE EXISTING LAVATORY SINK, AND CAP PIPING. DISPOSE OF LAVATORY SINK OFF SITE.
  - ② REMOVE EXISTING WATER CLOSET, CAP PIPING AND DISPOSE OF WATER CLOSET OFF SITE.
  - ③ CAP AND ABANDON EXISTING FLOOR DRAIN IN THIS APPROXIMATE LOCATION.
  - ④ REMOVE EXISTING URINAL, ABANDON PIPING, AND DISPOSE OFF SITE.
  - ⑤ REMOVE EXISTING COUNTERTOP SINK AND ASSOCIATED PIPING. DISPOSE OF SINK OFF SITE.
  - ⑥ EXISTING HOT WATER TANK TO REMAIN.
  - ⑦ REMOVE EXISTING FURNACE AND ASSOCIATED DUCTWORK AND FITTINGS.
  - ⑧ FUEL TANK AND ALL ASSOCIATED PIPING TO BE DISPOSED OF IN AN ENVIRONMENTAL FASHION. COMPLETION OF A "DISMANTLING DECOMMISSIONING OR DESTRUCTION NOTICE" REQUIRED FOR THE FUEL TANK TO BE REMOVED.



PARTIAL DEMOLITION MAIN FLOOR PLAN - MECHANICAL LAYOUT  
SCALE: 1:50

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
This Permit Allows  
**CROSBIE ENGINEERING LIMITED**  
To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by PEG-NL 00123  
which is valid for the year 2016.



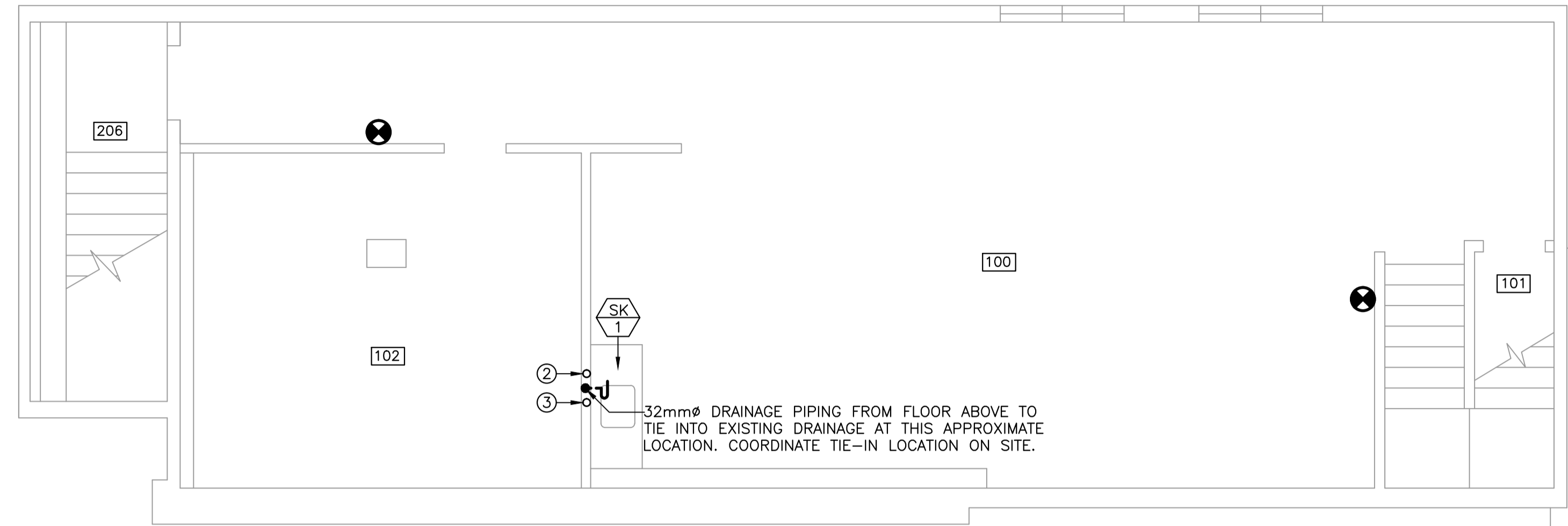
O	ISSUED FOR TENDER	MAR 24/16
B	ISSUED FOR 100% REVIEW	MAR 04/16
A	ISSUED FOR 80% REVIEW	FEB 16/16
revisions		date

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C	C drawing no. dessin no.	

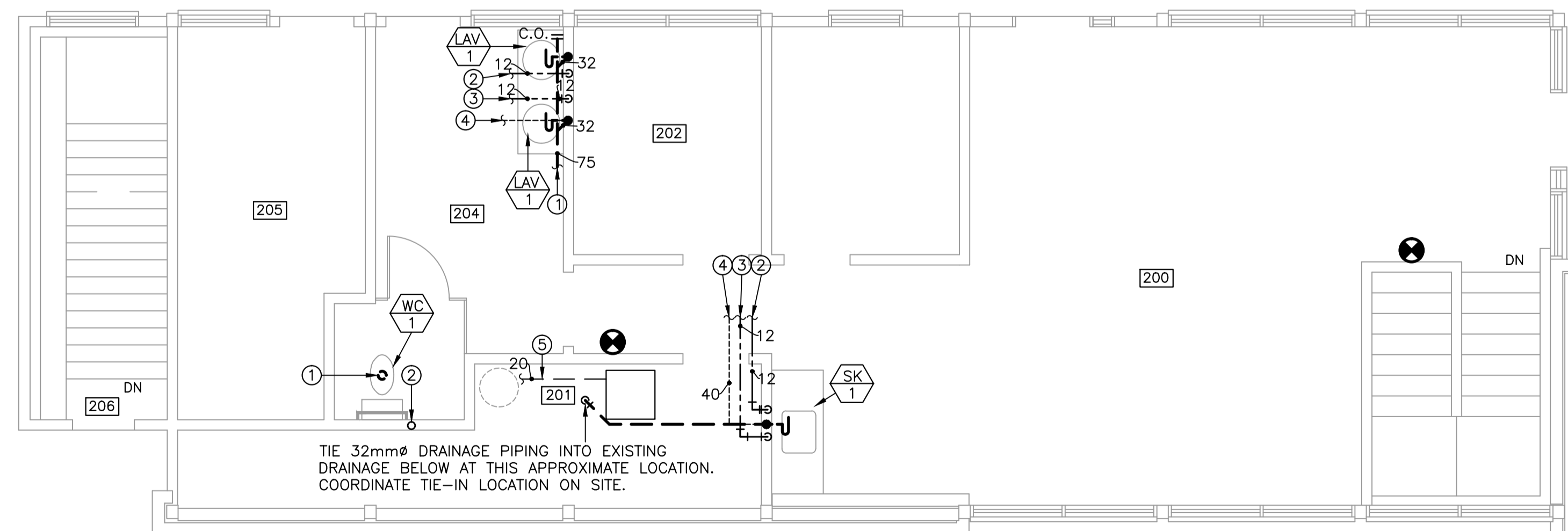
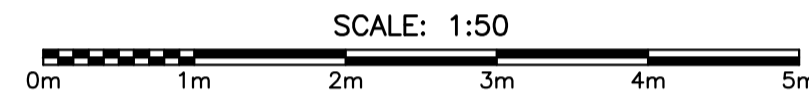
project projet  
**ECO-SCIENCE BUILDING  
RECAPITALIZATION  
T.N.N.P., NL**

drawing dessin  
**PARTIAL BASEMENT AND  
MAIN DEMOLITION  
FLOOR PLAN -  
MECHANICAL LAYOUT**

designed N.C.	conçu
date MARCH 2016	
drawn M.K.	dessiné
date MARCH 2016	
approved	approuvé
date	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>M1</b>	



PARTIAL NEW BASEMENT FLOOR PLAN – PLUMBING LAYOUT



PARTIAL NEW MAIN FLOOR PLAN – PLUMBING LAYOUT



MECHANICAL PLUMBING LEGEND:

PLUMBING

- FLOOR DRAIN C/W TRAP SEAL PRIMER
- FLOOR DRAIN C/W FUNNEL DRAIN
- PLUMBING FIXTURE TAG INDICATING TYPE (SEE SCHEDULE)
- PLUMBING VENT
- SEWAGE AND DRAINAGE
- C.O. CLEANOUT BROUGHT UP TO FINISHED FLOOR
- C.O. CLEANOUT BEHIND ACCESS DOOR
- BALL VALVE
- CAP AT END OF PIPE
- PIPE UP
- PIPE DOWN
- TEE FITTING
- ELBOW BEND
- PLUMBING FIXTURE TAG INDICATING TYPE (SEE SCHEDULE)
- DOMESTIC COLD WATER PIPE
- DOMESTIC HOT WATER PIPE
- SHUT OFF VALVE
- CONDENSATE C/W INSULATION

FIRE PROTECTION

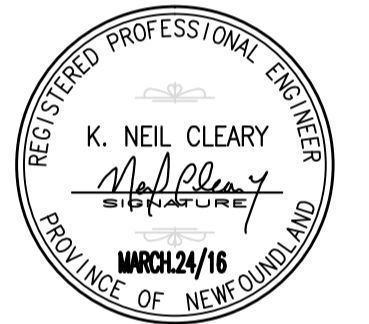
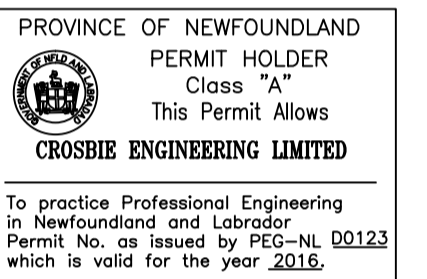
- FIRE EXTINGUISHER WALL MOUNTED
- MPDC – MULTI-PURPOSE DRY CHEMICAL 5 LB.

NEW FLOOR PLAN NOTES:

- ① TIE NEW DRAINAGE PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. CONFIRM EXACT LOCATION ON SITE.
- ② TIE NEW DOMESTIC COLD WATER PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. CONFIRM EXACT LOCATION ON SITE.
- ③ TIE NEW DOMESTIC HOT WATER PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. CONFIRM EXACT LOCATION ON SITE.
- ④ TIE NEW VENT PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. CONFIRM EXACT LOCATION ON SITE.
- ⑤ 20mmØ INSULATED CONDENSATE DRAIN LINE WITH PVC JACKET TO RUN FROM HRV-1 TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM.

GENERAL NOTES:

1. PIPING SHOWN DIAGRAMMATICALLY ONLY. PROVIDE ALL ADDITIONAL OFFSETS AND FITTINGS AS REQUIRED.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES TO BE SLEEVED AND SEALED.
3. COORDINATE WITH ALL OTHER TRADES.



O	ISSUED FOR TENDER	MAR24/16
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revisions		date

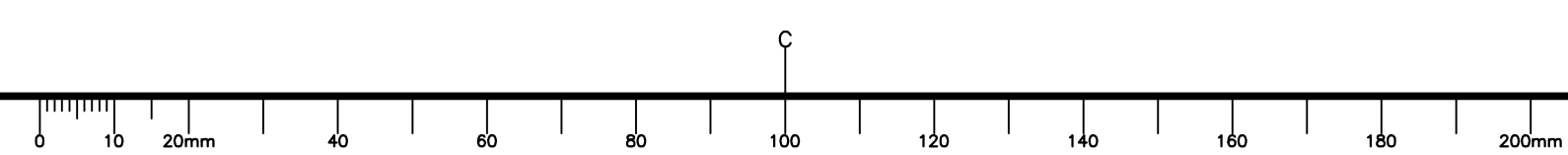
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	C drawing no. dessin no.	
project		projet

ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

drawing / dessin

PARTIAL NEW FLOOR PLANS – PLUMBING LAYOUT

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drawn M.K.	dessiné
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approved	approuvé
date	
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PWC Project Manager / Administrateur de projets TPC	
project number / no. du projet	
<b>PRO 000607</b>	
drawing no. / no. du dessin	
<b>M2</b>	

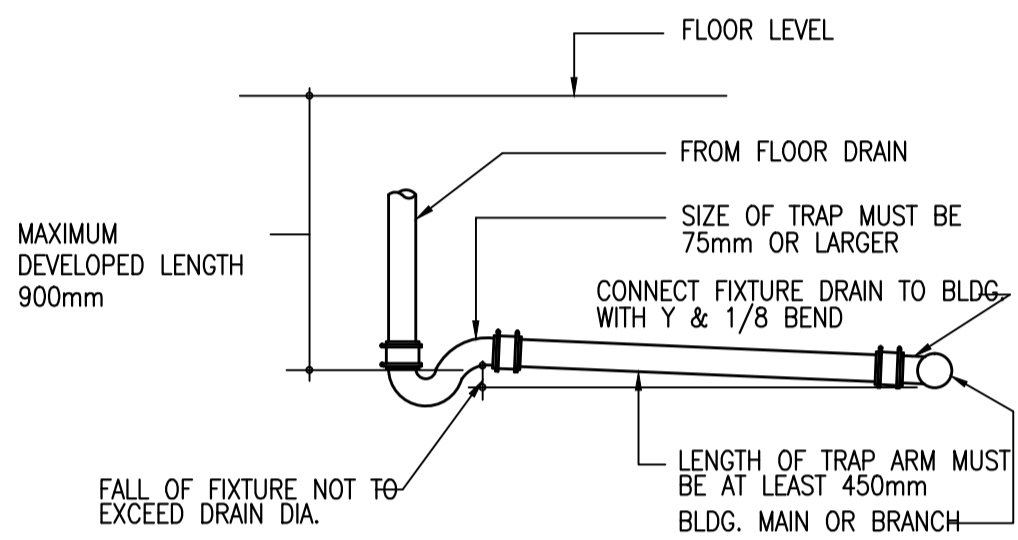


PLUMBING FIXTURE AND TRIM SCHEDULE

FIXTURE TAG	MANUF.	MODEL NO.	COLOUR	WATER CLOSET & URINAL TRIM				SINK & LAVATORY TRIM				SHOWER & BATH TRIM			MOUNTING	ROUGHING				REMARKS
				SUPPLY/VALVE	TANK	CARRIER	SEAT	FAUCET	WASTE	TRAP	SUPPLIES	CARRIER	HEAD	FAUCET OR MIXING VALVE		WASTE & OVERFLOW	WASTE	VENT	HOT WATER	
WC-1	AMERICAN STANDARD	CADET FLOWISE 2467.100	WHITE	DELTA 47T1316SD	-	-	BEMIS 2L2150T	-	-	-	-	-	-	-	FLOOR MTD.	75mm	40mm	-	12mm	BARRIER FREE, ELONGATED 419mm HIGH BOWL.
LAV-1	AMERICAN STANDARD	CADET 9494.001	WHITE	-	-	-	-	DELTA 21T134	DELTA 33T290	DELTA 33T311	DELTA 47T2512SD	-	-	-	COUNTER MTD.	32mm	40mm	12mm	12mm	BARRIER FREE, ALL PIPES TO BE INSULATED WHERE EXPOSED.
TP	PPP INC.	P1-500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12mm	C/W DISTRIBUTION UNIT WITH 2-4 OUTLETS AS REQ'D BY NUMBER OF TRAPS SERVED. NOT REQ'D FOR ONLY ONE TRAP.
SK-1	KINDRED	LBS6808-1	S.S.	-	-	-	-	DELTA 26T3134	CRUMB CUP STRAINER	DELTA 33T360	DELTA 47T2512SD	-	-	-	COUNTER MTD.	50mm	40mm	12mm	12mm	

FLOOR DRAIN SCHEDULE

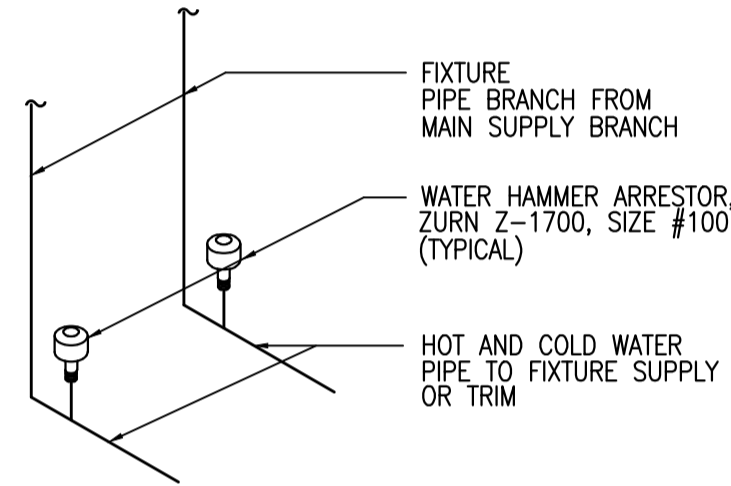
TAG NO.	MODEL NO.	MANUF.	GRATING FLASHING	CLAMP	TRAP	TRAP SEAL PRIMER	SPECIAL REQUIREMENTS	AREA OF APPLICATION	REMARKS
FD-1	ZN-415-B-P	ZURN	YES	YES	REQ'D	REQ'D	-	SEE DRAWING	OUTLET SIZE AS PER DRAWING.



TRAPPED FLOOR DRAIN WITHOUT VENT

SCALE = N.T.S.

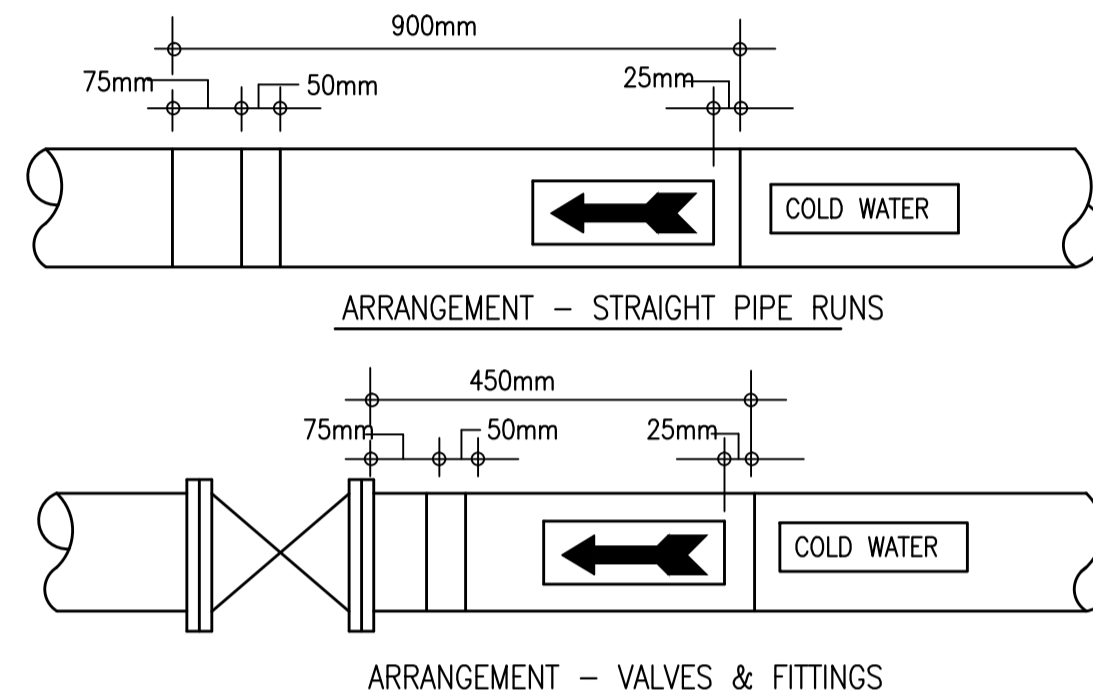
10 M-3



WATER HAMMER ARRESTOR DETAIL

SCALE = N.T.S.

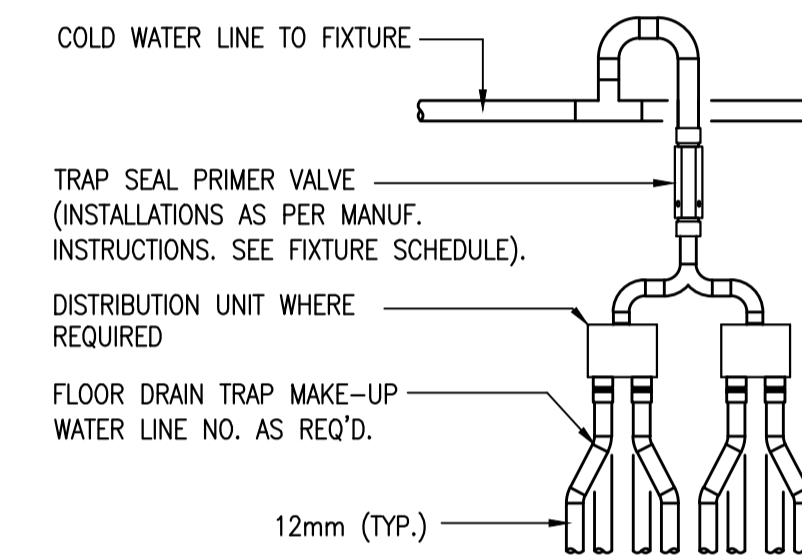
7 M-3



PIPING SYSTEM IDENTIFICATION

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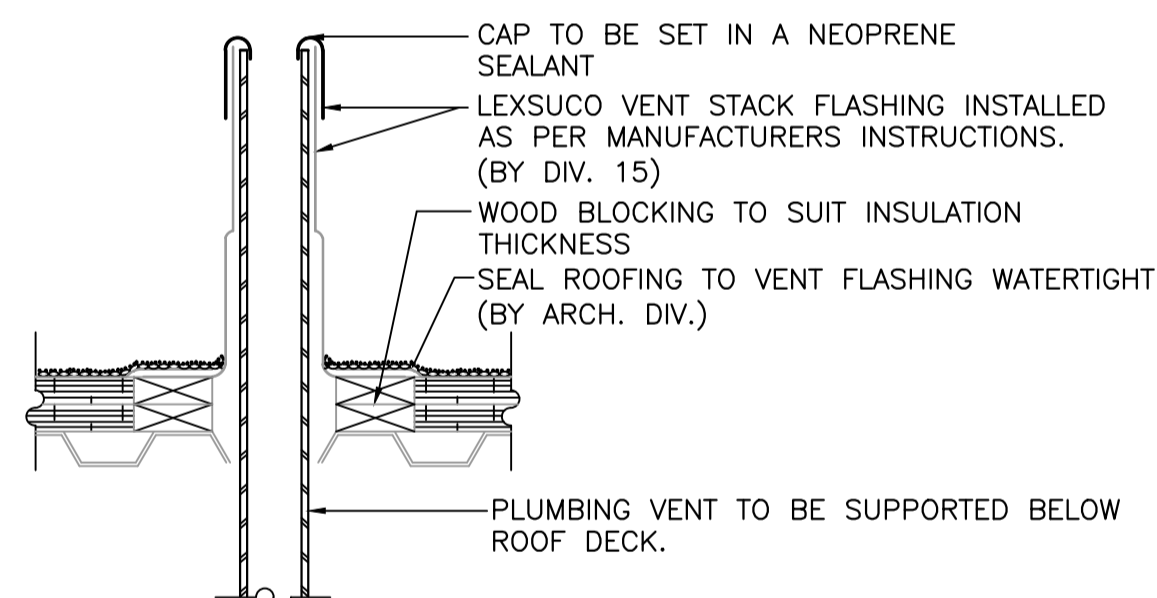
4 M-3



TYPE 1 - TRAP PRIMER DETAIL

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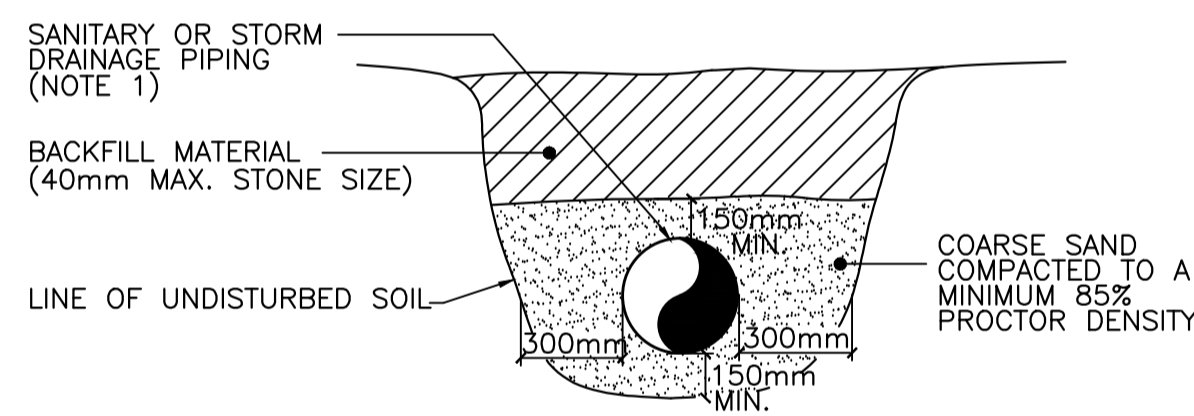
1 M-3



TYPICAL PLUMBING VENT FLASHING

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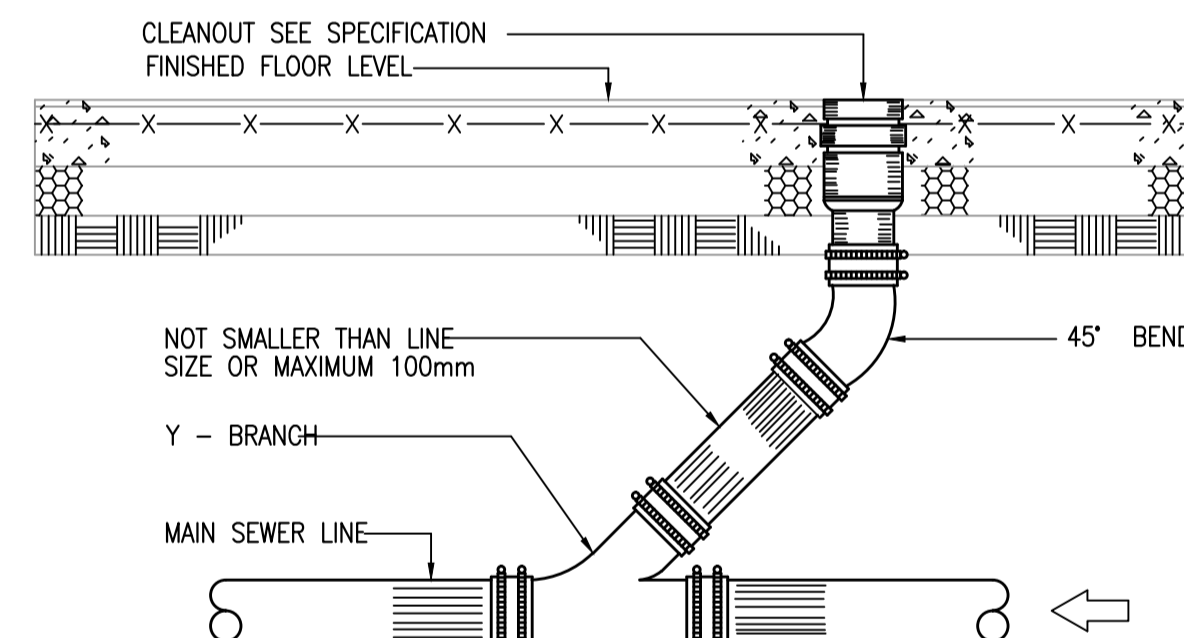
11 M-3



TYP. SINGLE PIPE DRAINAGE TRENCH

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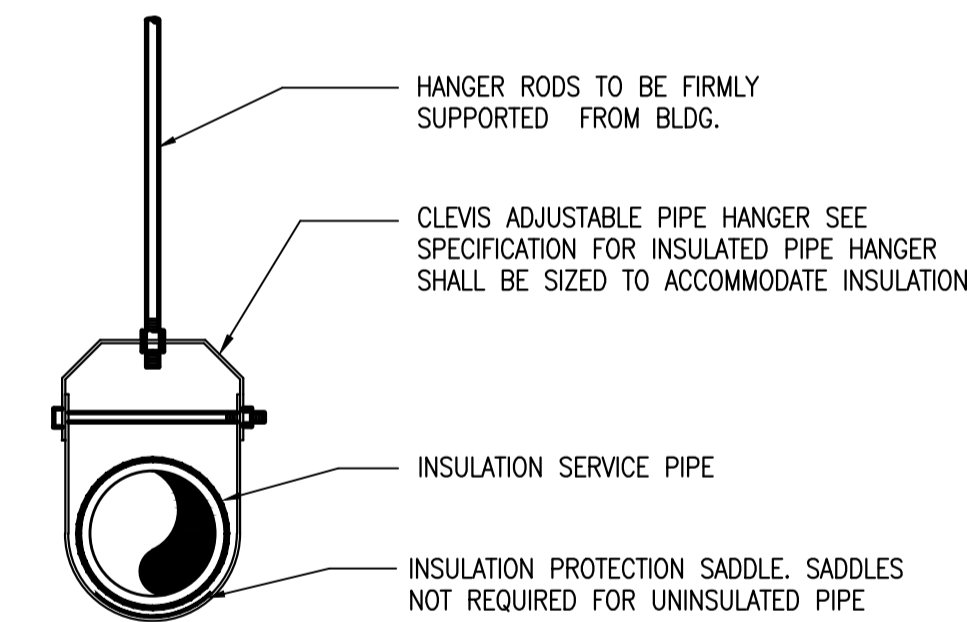
8 M-3



TYP. CLEANOUT SLAB ON GRADE

SCALE = N.T.S.

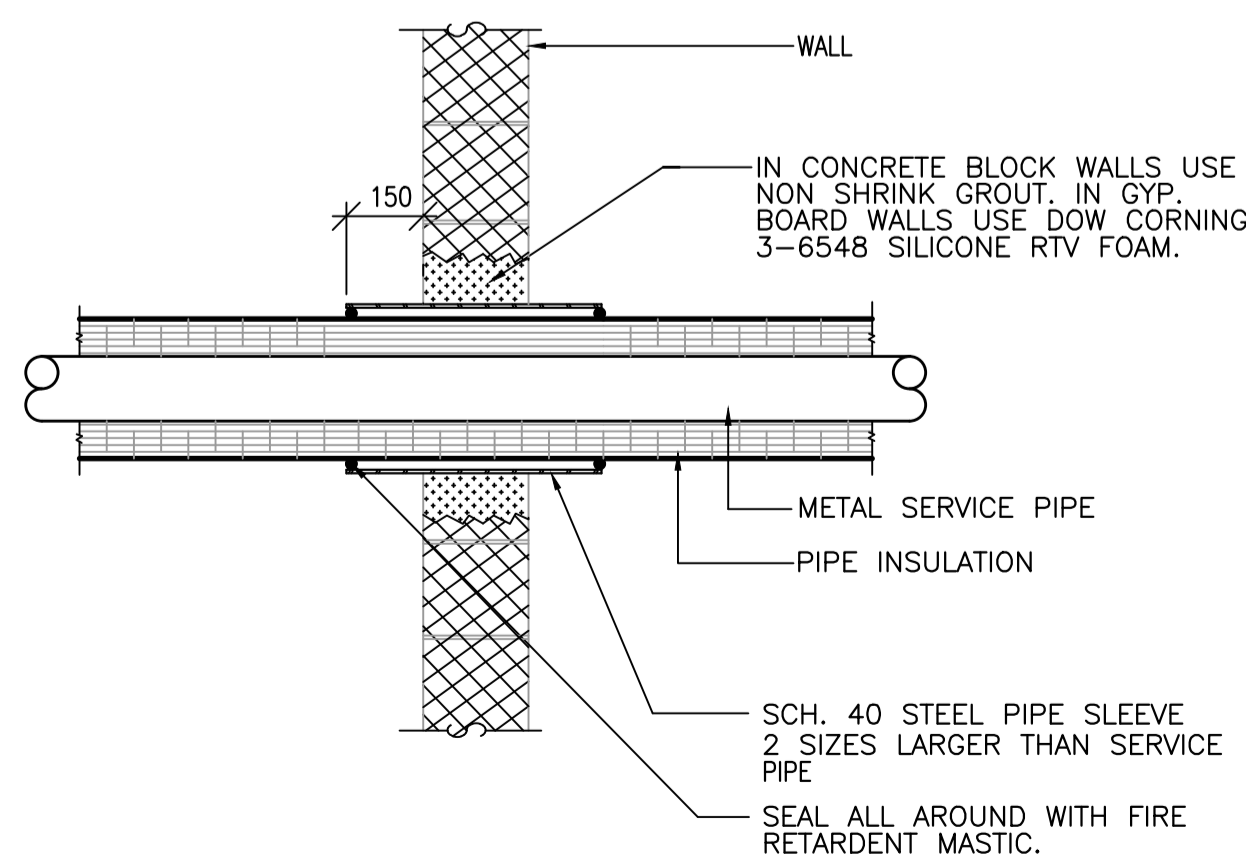
5 M-3



TYPICAL CLEVIS PIPE HANGER

SCALE = N.T.S.

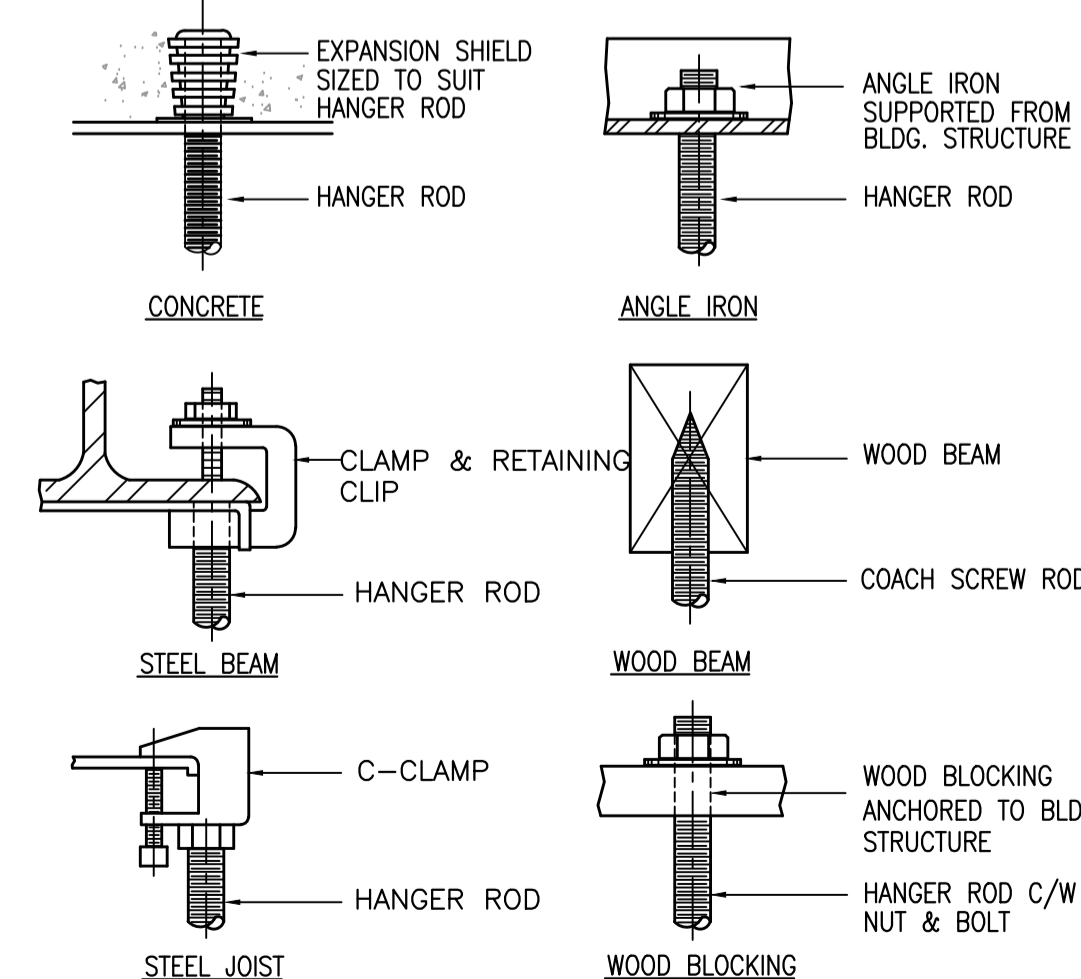
2 M-3



SERVICE PIPE PENETRATING NON-RATED WALL

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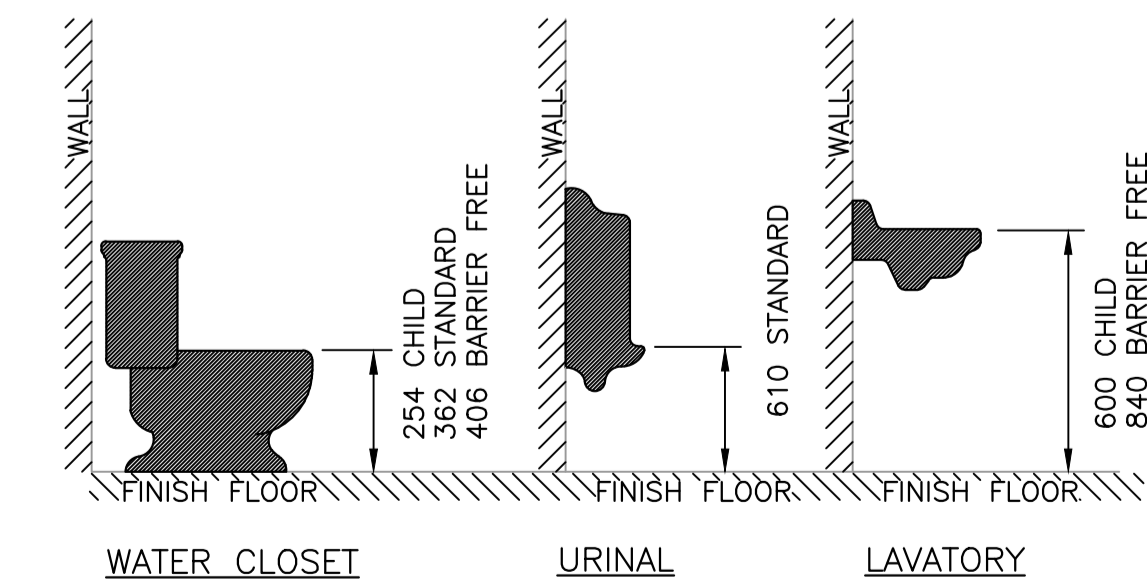
9 M-3



DETAIL - TYP. HANGER ROD SUPPORTS

SCALE = N.T.S.

6 M-3



PLUMBING FIXTURE MTG. STANDARDS

SCALE = N.T.S.

3 M-3

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" This Permit Allows CROSBIE ENGINEERING LIMITED To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL 00123 which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER K. NEIL CLEARLY Signature WRC24/16 PROVINCE OF NEWFOUNDLAND

O	ISSUED FOR TENDER	WR24/16
B	ISSUED FOR 100% REVIEW	WR04/16
A	ISSUED FOR 80% REVIEW	FEB/16/16

A	A detail no. du detail	A
B	B location drawing no. sur dessin no.	B C
C	C drawing no. dessin no.	

project project

ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

drawing dessin

PLUMBING SCHEDULES AND DETAILS

designed N.C. conçu

date MARCH 2016

drawn M.K. dessiné

date MARCH 2016

approved approuvé

date

Tender Soumission

PWC Project Manager Administrateur de projets TPC

project number no. du projet

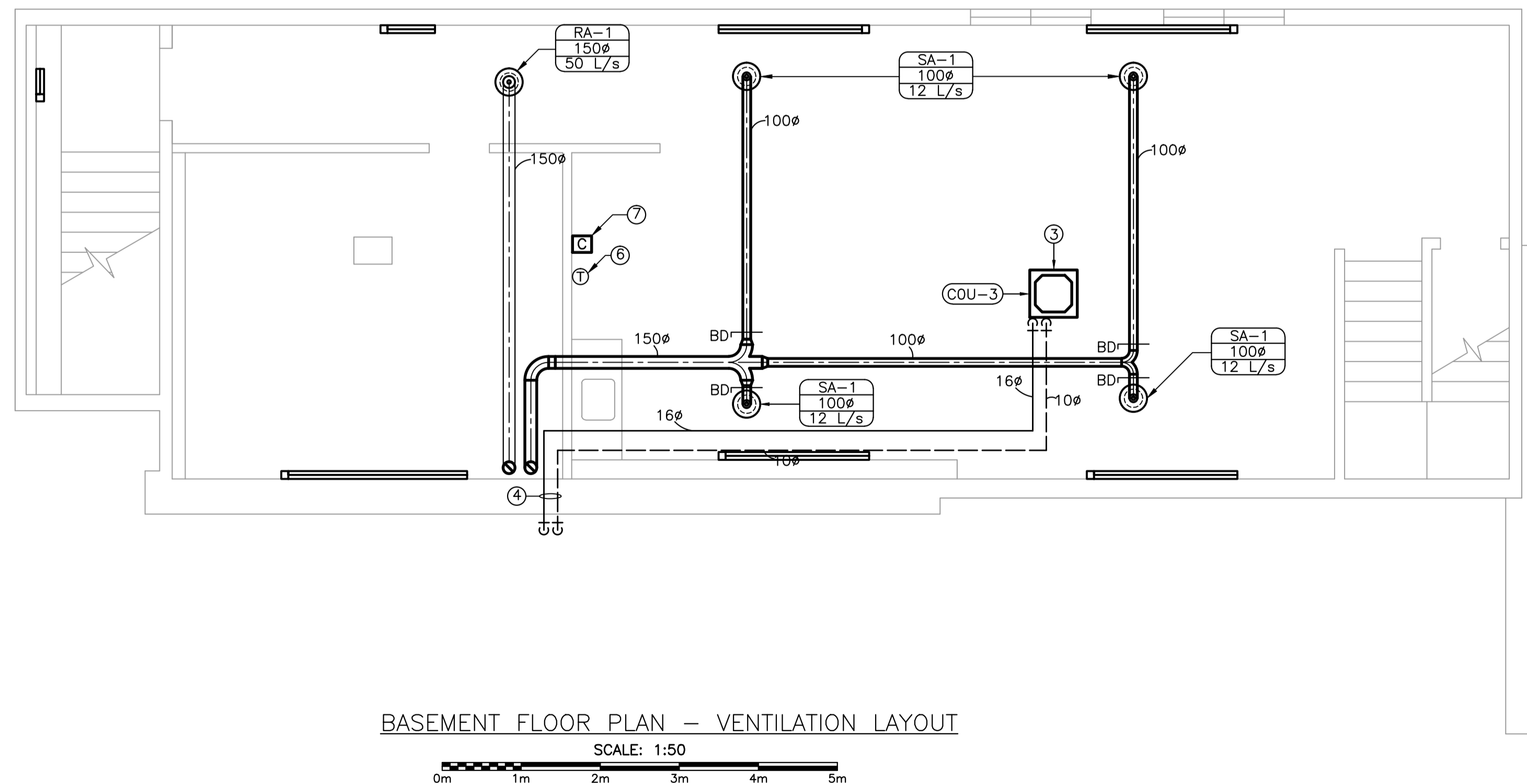
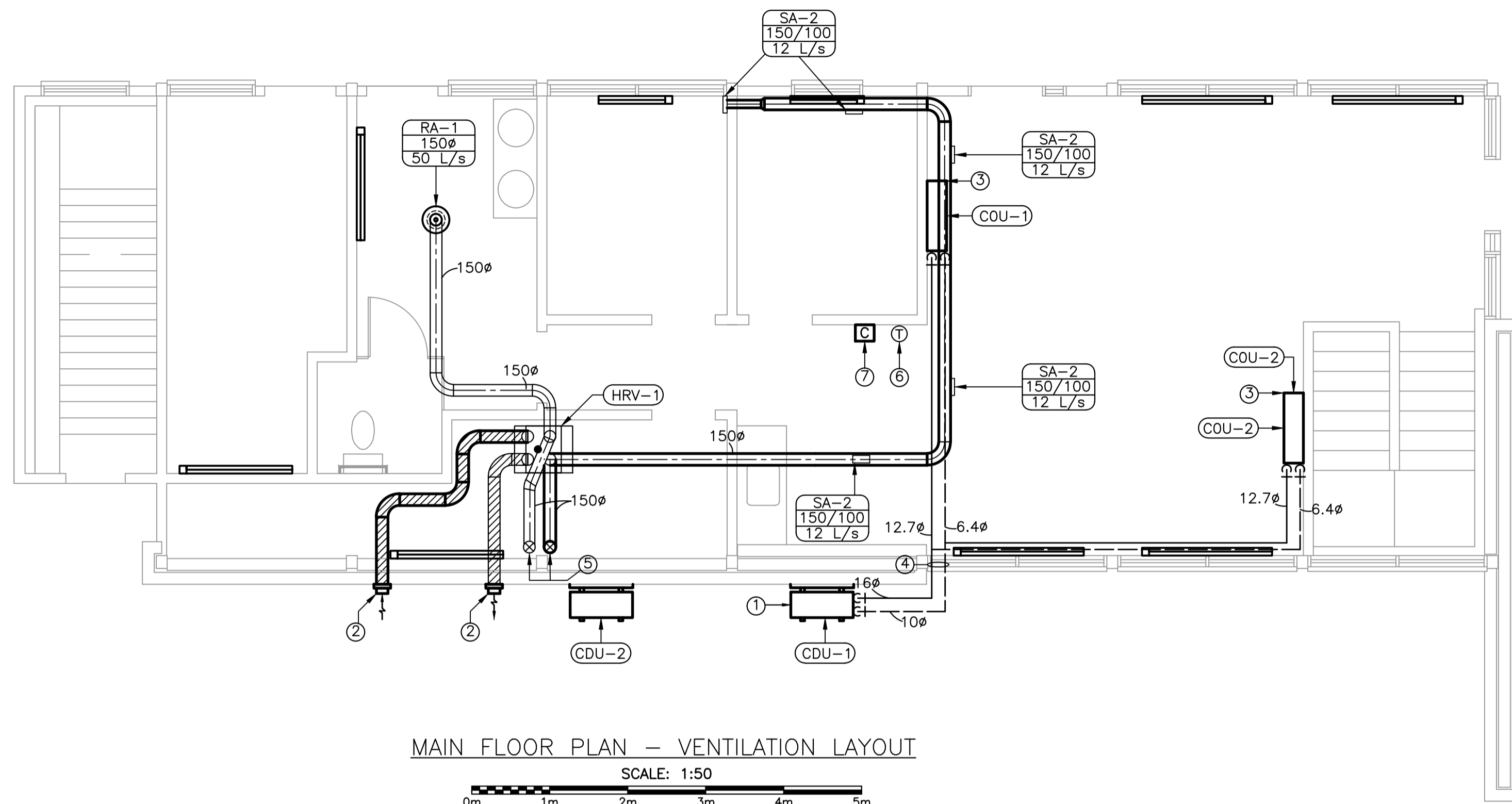
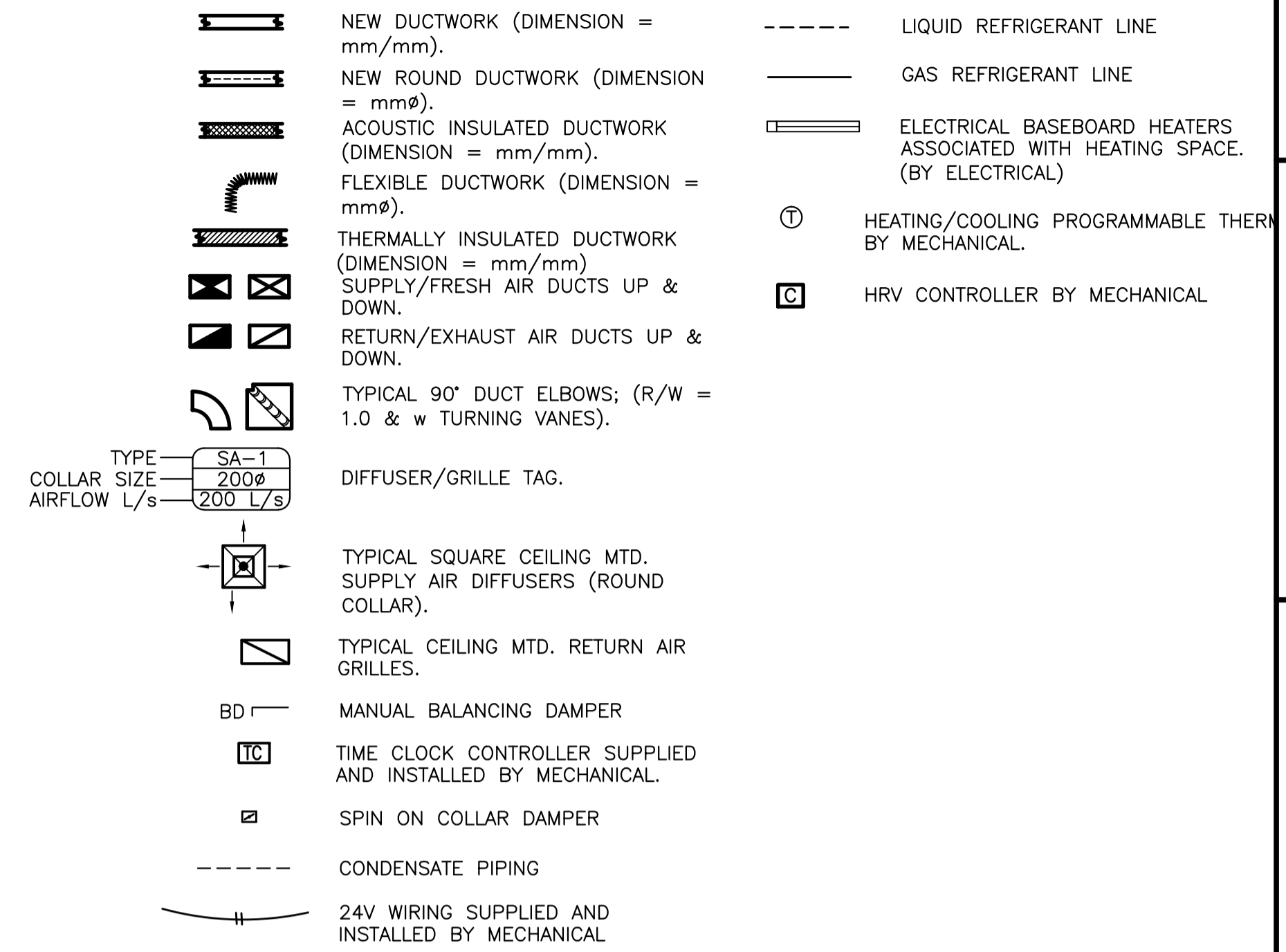
PRO 000607

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M3



MECHANICAL VENTILATION LEGEND:

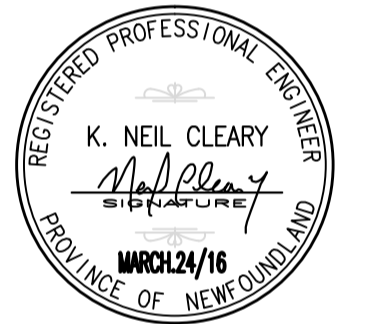
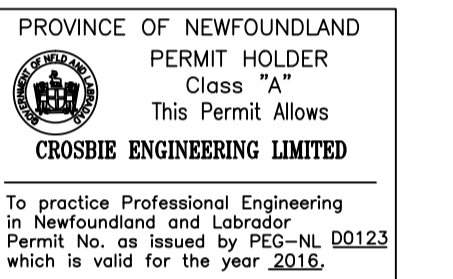


DRAWING NOTES:

- CONDENSER SECTION OF NEW SPLIT AIR CONDITIONING SYSTEM TO BE LOCATED ON EXTERIOR WALL.
- GREENHECK MODEL WC WALL CAP C/W BIRD SCREEN
- WALL MOUNTED/CEILING CASSETTE SECTION OF NEW SPLIT AIR CONDITIONING SYSTEM.
- PROVIDE PIPE SLEEVE FOR EXTERIOR PENETRATIONS. SEE SPEC. PROVIDE SEALANT & CAULKING.
- SUPPLY AND EXHAUST DUCTS DOWN TO BASEMENT LEVEL. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE. PROVIDE FIRE DAMPERS IN FLOOR.
- CASSETTES CONTROLLED BY MECHANICAL REMOTE CONTROLLER SUPPLIED WITH UNIT.
- HRV DEHUMIDISTAT. RUN LOW VOLTAGE WIRING BACK TO HRV.

GENERAL NOTES:

- CONTRACTOR TO PROVIDE ALL CUTTING, PATCHING AND PAINTING TO MATCH EXISTING. COORDINATE ON SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND DISPOSALS OF WORK AREA ON A DAILY BASIS. AFTER EACH WORKING SHIFT BUILDING TO BE CLEANED AND FREE OF DEBRIS. BUILDING GARBAGE BINS ARE NOT TO BE USED.
- WORK TO BE CARRIED OUT IN CONSIDERATION OF CLIENT COMFORT AND OPERATIONS.
- LABEL ALL EQUIPMENT WITH LAMACOID TAGS.
- FIRE STOP CAULKING FOR PIPE PENETRATIONS ROOM TO ROOM AND WEATHERPROOF CAULKING AT EXTERIOR WALL.
- MOLDED PVC JACKET INSULATION COVERING FOR REFRIGERANT PIPING OUTSIDE.
- ALL PIPING TO BE INSULATED.



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revisions		date

A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B C
C	C drawing no. dessin no.	

project projet

ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

drawing dessin

VENTILATION LAYOUT

designed N.C. conçu

date MARCH 2016

drawn M.K. dessiné

date MARCH 2016

approved approuvé

date

Tender Soumission

PWC Project Manager Administrateur de projets TPC

project number no. du projet

PRO 000607

drawing no. no. du dessin

M-4

MINI SPLIT SYSTEM EQUIPMENT SCHEDULE

DWG TAG	MANUFACTURER	MODEL	COOLING BTU/h	SEER (EER)	FAN DATA					COMPRESSOR DATA		ELECTRICAL DATA		FILTERS	EQUIP MOUT.	REFRIG. PIPING	
					CAPACITY	EXT. SP	WATTS	FLA	R.P.M.	RLA	LRA	CCT. BRKR.	VOLT/Ph/Hz			LIQUID	GAS
COU#1	MITSUBISHI (OR APPR. EQUAL)	PKA-A18HA4	18,000	-	150-200 L/s	N/A	-	-	-	-	-	MOCp = 15 MCA = 1	208-230/1/60	SUPPLIED WITH UNIT	WALL MOUNTED	6.4mm	12.7mm
COU#2	MITSUBISHI (OR APPR. EQUAL)	PKA-A18HA4	18,000	-	150-200 L/s	N/A	-	-	-	-	-	MOCp = 15 MCA = 1	208-230/1/60	SUPPLIED WITH UNIT	WALL MOUNTED	6.4mm	12.7mm
COU#3	MITSUBISHI (OR APPR. EQUAL)	PLA-A24BA4	24,000	-	200-300 L/s	N/A	-	-	-	-	-	MOCp = 15 MCA = 1	208-230/1/60	SUPPLIED WITH UNIT	CEILING CASSETTE	10mm	16mm
CDU#1	MITSUBISHI (OR APPR. EQUAL)	PUZ-A36HA4	36,000	14.2 (7.8)	-	N/A	-	-	-	-	-	MOCp = 40 MCA = 25	208-230/1/60		WALL MOUNTED	10mm	16mm
CDU#2	MITSUBISHI (OR APPR. EQUAL)	PUZ-A24HA4	24,000	17 (10.6)	-	N/A	-	-	-	-	-	MOCp = 30 MCA = 18	208-230/1/60	SUPPLIED WITH UNIT	WALL MOUNTED	10mm	16mm

NOTES -

- SPLIT - TYPE A/C SYSTEM, FAN COIL UNITS (COU) AND CONDENSER (CDU). FAN COIL TO BE C/W REFRIGERANT SOLENOID VALVE. UNITS TO BE C/W INDIVIDUAL POWER POINT CONNECTION BOXES & ELECTRICAL DISCONNECT SWITCHES, CONTROL WIRING, EXTR LOW TEMPERATURE KIT.
- COORDINATE INSTALLATION ON-SITE. INSTALL ALL EQUIPMENT AND PIPING TO MANUFACTURER'S GUIDELINES.
- TYPICAL ZONE DUCTLESS SPLIT-TYPE AIR CONDITIONING SYSTEM, WITH WALL MOUNTED TYPE FAN COIL UNIT. SYSTEM TO BE C/W R-410A REFRIGERANT (PRE-CHARGED), REFRIGERANT PIPING, SOLENOID VALVES. "INTELLIGENT" WALL MTD. CONTROLLER, ELECTRICAL DISCONNECTS, MOUNTING PLATES, VARIABLE COMPRESSOR SPEED, AUTO RESTART, SELF DIAGNOSTIC FEATURE SYSTEM. MAINTAIN ALL REQ'D CLEARANCES AND INSTALL TO MANUFACTURER'S GUIDELINES. SUPPLY AND INSTALL CONDENSATE PUMP (C/W RESERVOIR & FLOAT CONTROL) WITH CONNECTION WIRING TO FAN COIL UNIT (COU), GRAVITY DRAINAGE IS PREFERRED IF CONFIGURATION ALLOWS. ULTRA LOW AMBIENT TO BE INCLUDED (-40°C). OUTDOOR WIND GUARD TO BE INSTALLED ON OUTDOOR UNIT.
- UNIT TO BE COMPLETE WITH 10 YEAR WARRANTY ON PARTS AND SERVICE.

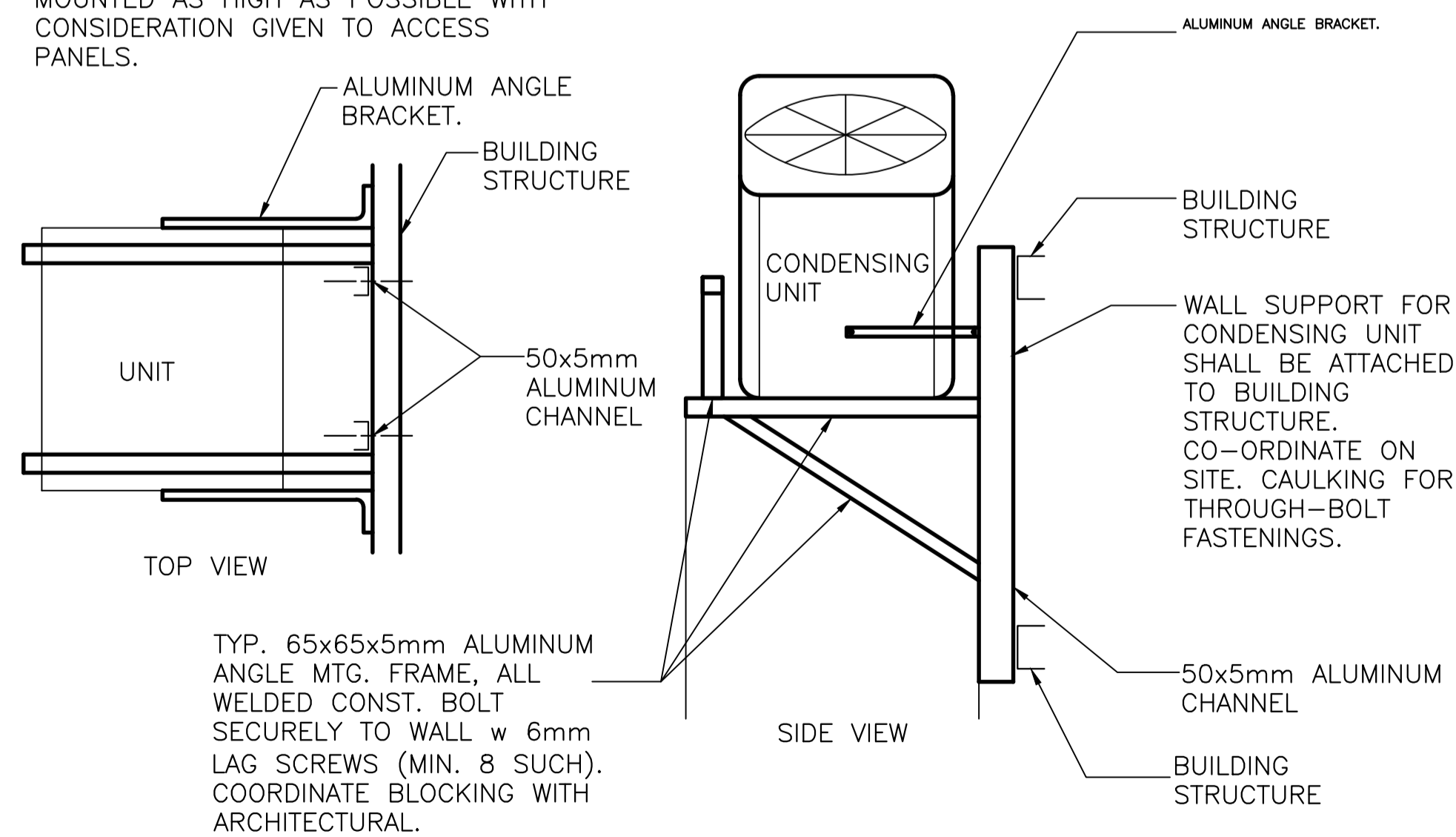
HRV EQUIPMENT SCHEDULE

DWG TAG	MANUFACTURER	MODEL	OUTSIDE AIR PERFORMANCE					EXHAUST AIR PERFORMANCE					ELECTRICAL			REMARKS				
			WINTER(°C) DB	FLOW (l/s)	ESP (Pa)	TOTAL SP (w.g.)	RPM	FAN (Bhp)	FAN (hp)	WINTER(°C) DB	FLOW (l/s)	ESP (Pa)	TOTAL SP (w.g.)	RPM	FAN (Bhp)		FAN (hp)	VOLTAGE	MCA	MOP
HRV-1	FANTECH	VHR 2005R	-	95	100	.4	-	-	-	-	95	100	.4	-	-	-	120/1/60	1.8	-	C/W ELECTRICAL DISCONNECT, DE-HUMIDISTATE. SUPPLY AND INSTALL EXHAUST AIR /FRESH AIR WALL CAPS(2 SUCH) C/W BIRDSCREEN.

GRILLE/REGISTER AND DIFFUSER SCHEDULE

TAG NO.	MANUFACTURER	MODEL NO.	SIZE	DISCHARGE PATTERN	NUMBER OF SLOTS	MOUNTING TYPE	REMARKS
SA-1	IMPERIAL	VT0110	4"	-	-	T- BAR CEILING	ADJUSTABLE AIR DIFFUSER, SUITABLE FOR HRV.
SA-2	E.H. PRICE	500 SERIES	150X100	-	-	DUCT MOUNTED	C/W O.B.D
RA-1	IMPERIAL	VT0110	6"	-	-	T- BAR CEILING	ADJUSTABLE AIR DIFFUSER, SUITABLE FOR HRV.

NOTE: ANGLE BRACKETS TO BE MOUNTED AS HIGH AS POSSIBLE WITH CONSIDERATION GIVEN TO ACCESS PANELS.



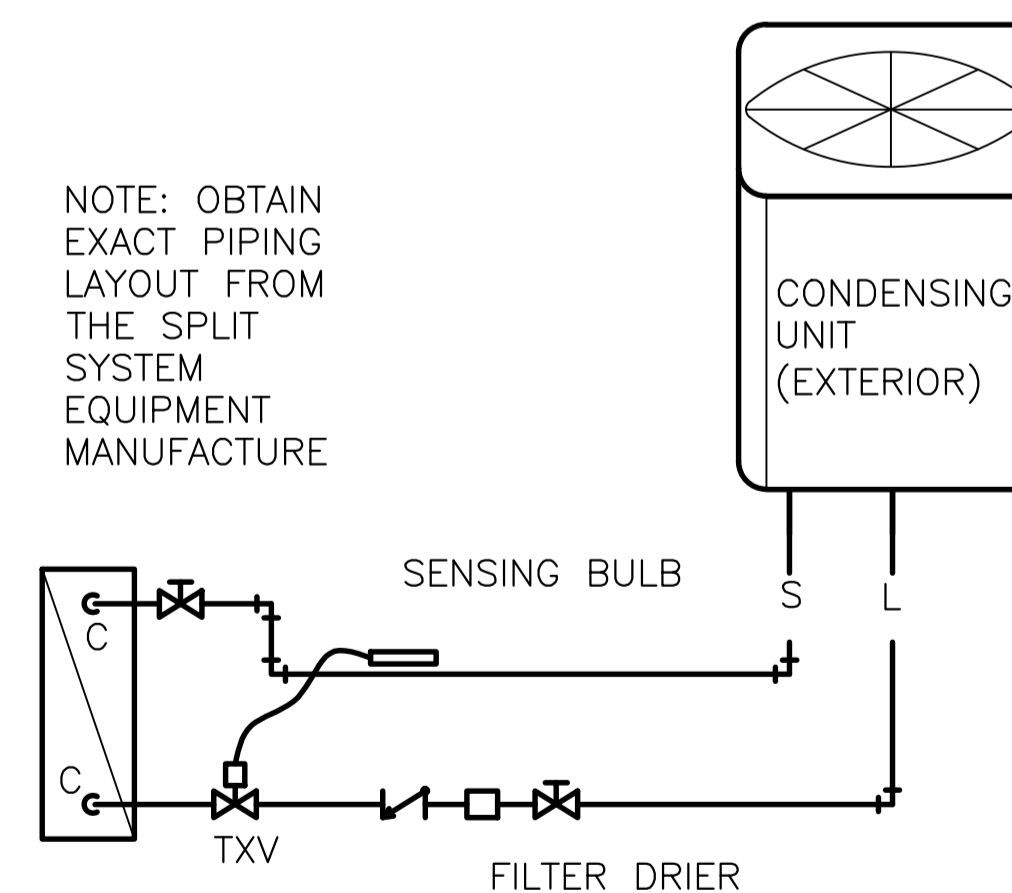
TYP. 65x65x5mm ALUMINUM ANGLE MTG. FRAME, ALL WELDED CONST. BOLT SECURELY TO WALL w 6mm LAG SCREWS (MIN. 8 SUCH). COORDINATE BLOCKING WITH ARCHITECTURAL.

CONDENSING UNIT WALL BRACKET-GENERAL

SCALE = N.T.S.

1  
M-5

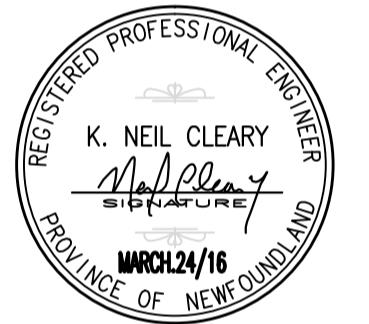
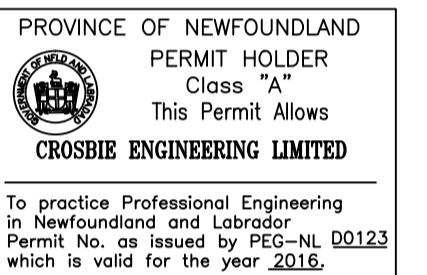
NOTE: OBTAIN EXACT PIPING LAYOUT FROM THE SPLIT SYSTEM EQUIPMENT MANUFACTURE



REFRIGERATION PIPING SCHEMATIC

SCALE = N.T.S.

2  
M-5



O	ISSUED FOR TENDER	MR24/16
B	ISSUED FOR 100% REVIEW	MR04/16
A	ISSUED FOR 80% REVIEW	FEB16/16

A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

project / projet

ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

drawing / dessin

VENTILATION SCHEDULES AND DETAILS

designed N.C. / conçu

date MARCH 2016

drawn M.K. / dessiné

date MARCH 2016

approved / approuvé

date

Tender / Soumission

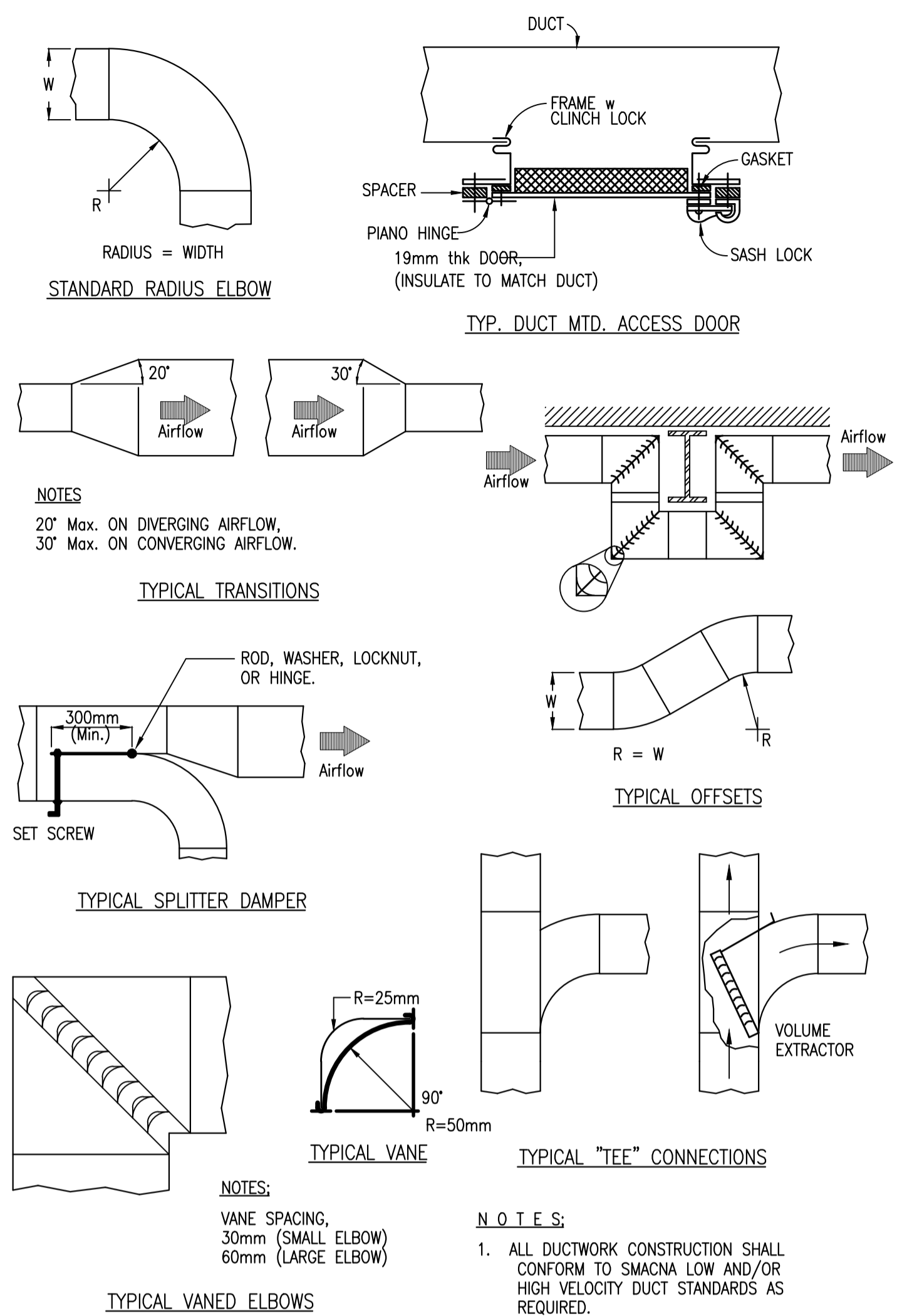
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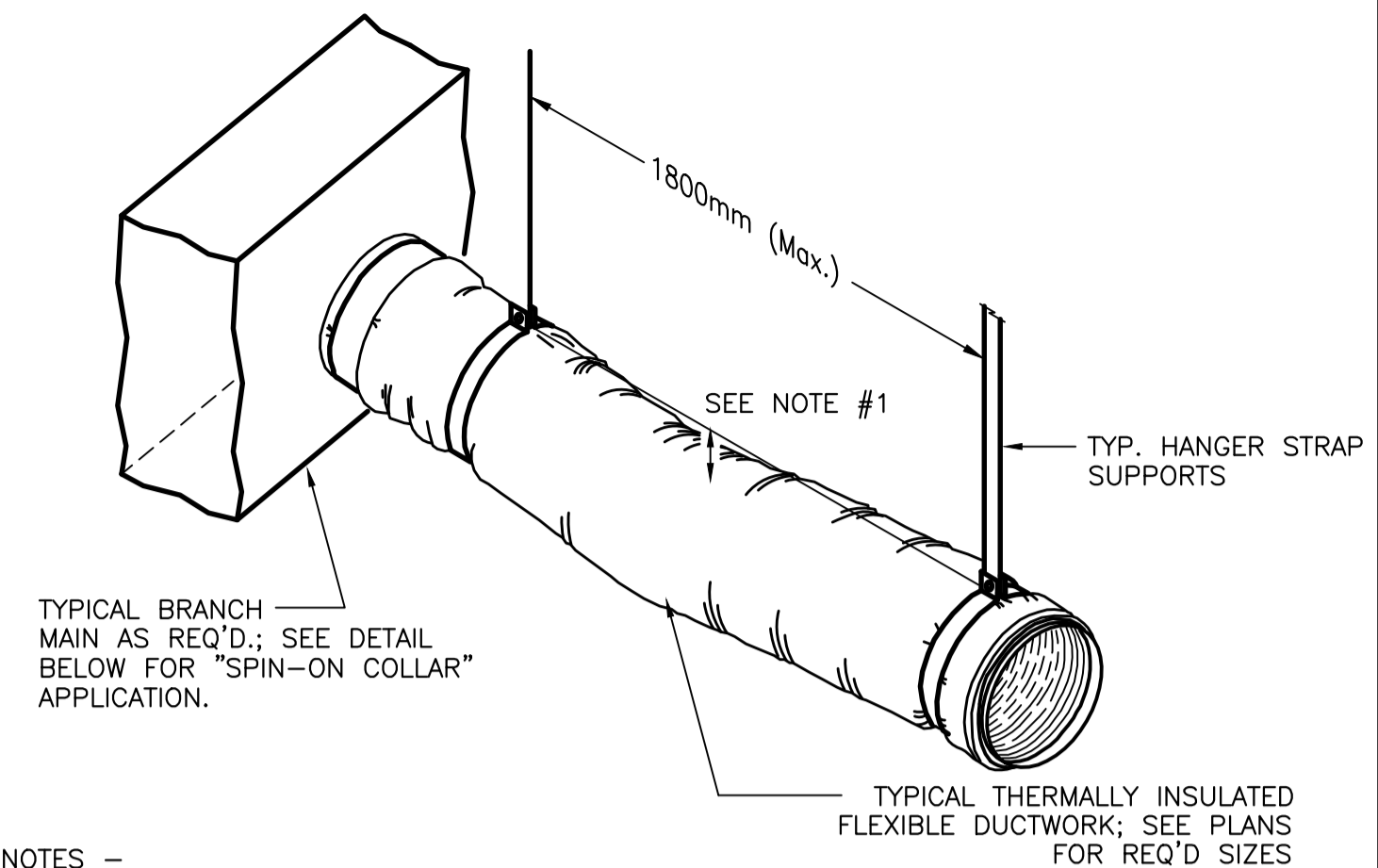
PRO 000607

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M5

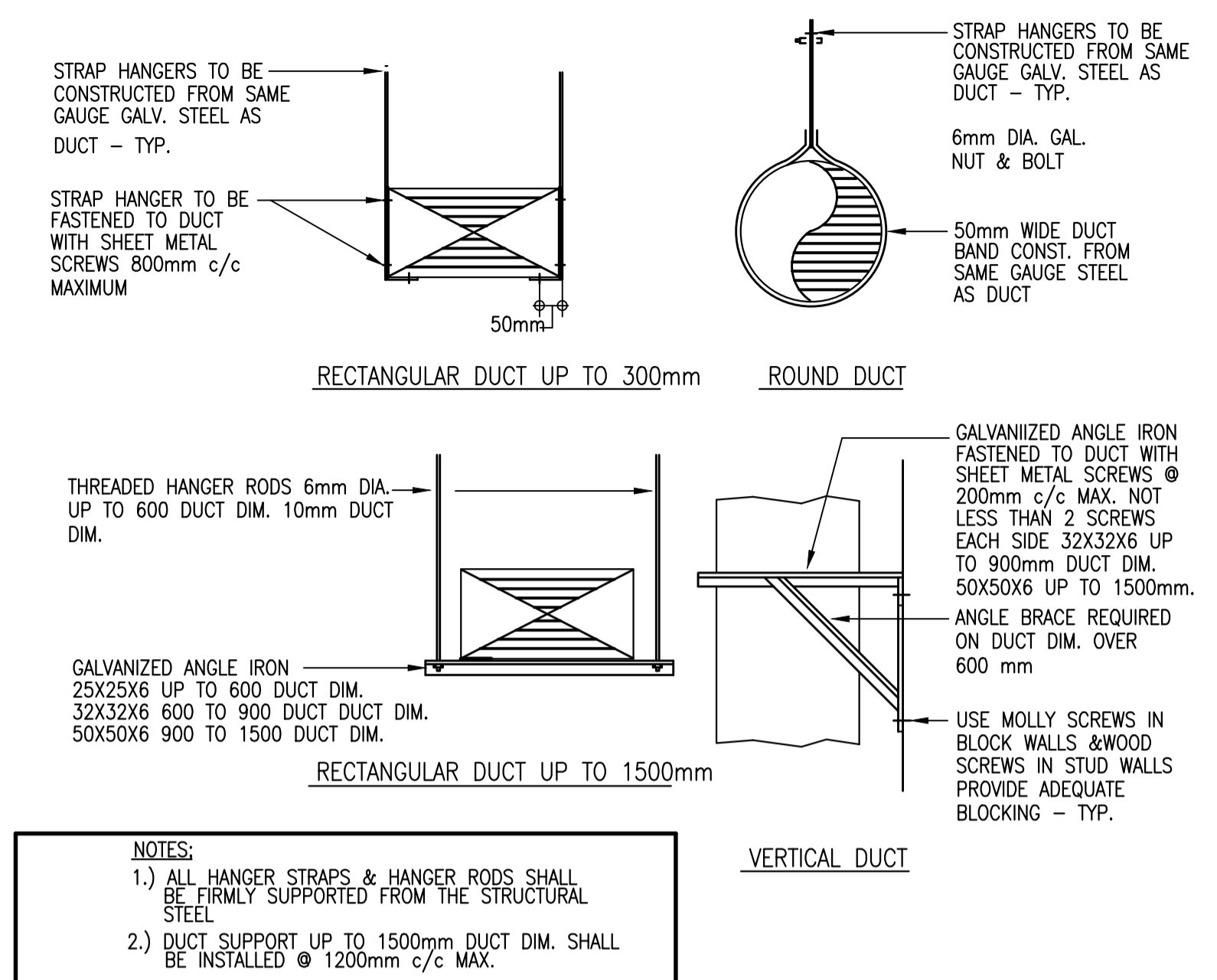


**TYPICAL DUCT CONSTRUCTION DETAILS** 7  
SCALE = N.T.S. M-6



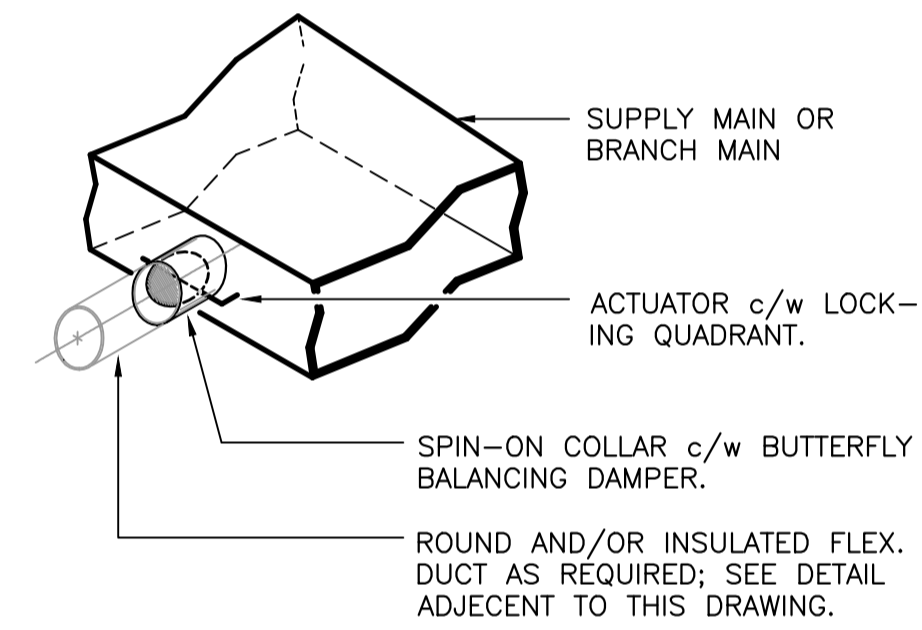
- NOTES -**
- 1.) MAXIMUM SAG OF FLEXIBLE DUCTWORK TO NOT EXCEED 12mm PER 300mm OF SUPPORT SPACING.
  - 2.) INSTALL ALL THERMALLY INSULATED FLEXIBLE DUCTWORK AS PER MANUFACTURER'S RECOMMENDATIONS AND SMACNA STANDARDS.
  - 3.) SINGLE UNINTERRUPTED LENGTH OF FLEXIBLE DUCTWORK SHALL GENERALLY NOT EXCEED 1800mm. COORDINATE ON-SITE.
  - 4.) ALL BENDS, TURNS OR CHANGES OF DIRECTION w FLEXIBLE DUCTWORK SHALL BE GRADUAL, ABRUPT TURNS, ELBOWS, ETC. WHICH MAY REDUCE INSIDE DIAMETER AND RESTRICT AIRFLOW ARE NOT PERMITTED.

**TYPICAL INSULATED FLEXIBLE DUCTWORK** 4  
SCALE = N.T.S. M-6

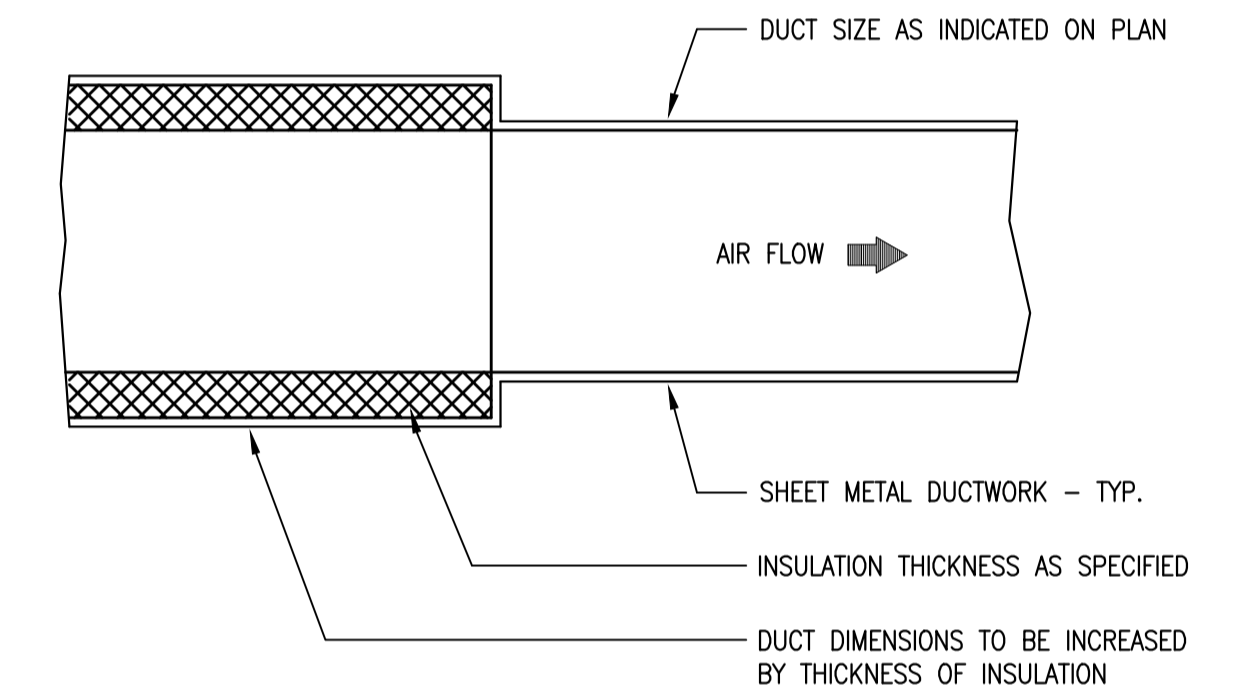


- NOTES:**
- 1.) ALL HANGER STRAPS & HANGER RODS SHALL BE FIRMLY SUPPORTED FROM THE STRUCTURAL STEEL
  - 2.) DUCT SUPPORT UP TO 1500mm DUCT DIM. SHALL BE INSTALLED @ 1200mm c/c MAX.

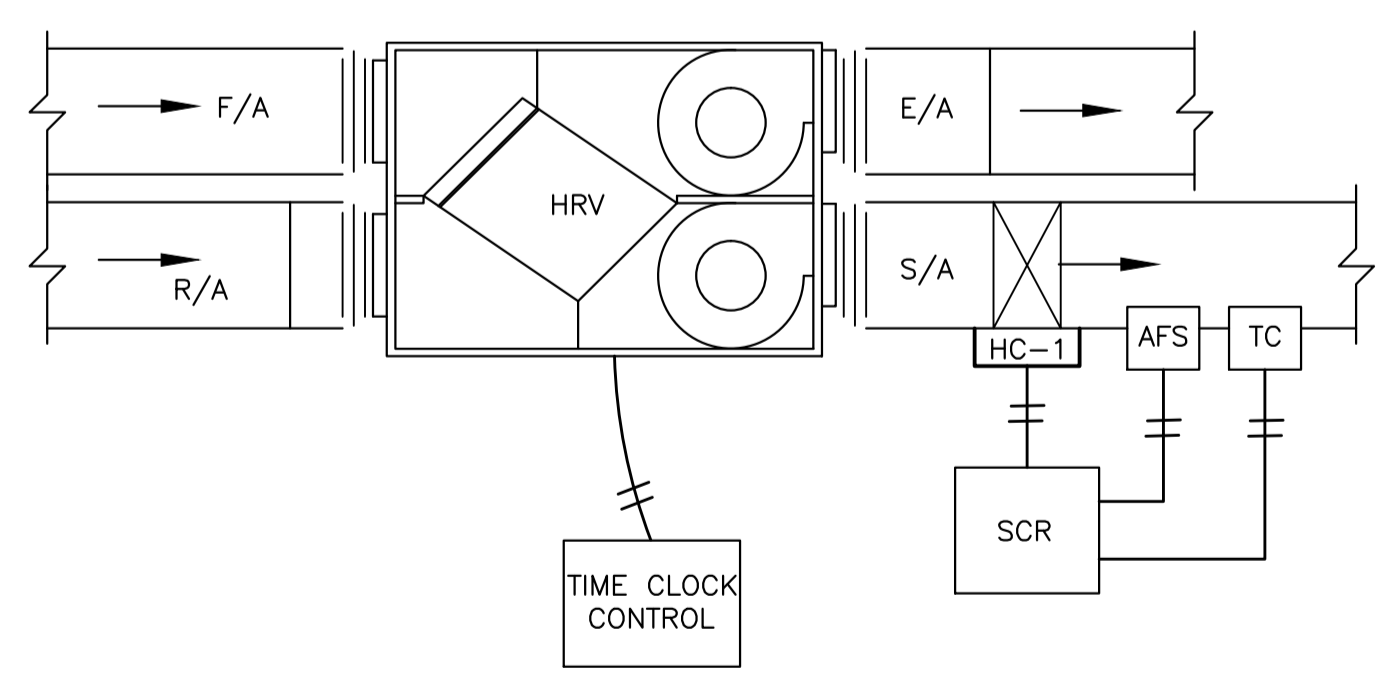
**DETAIL - TYP. DUCT SUPPORTS** 1  
SCALE = N.T.S. M-6



**TYPICAL SPIN-ON COLLAR DETAIL** 5  
SCALE = N.T.S. M-6

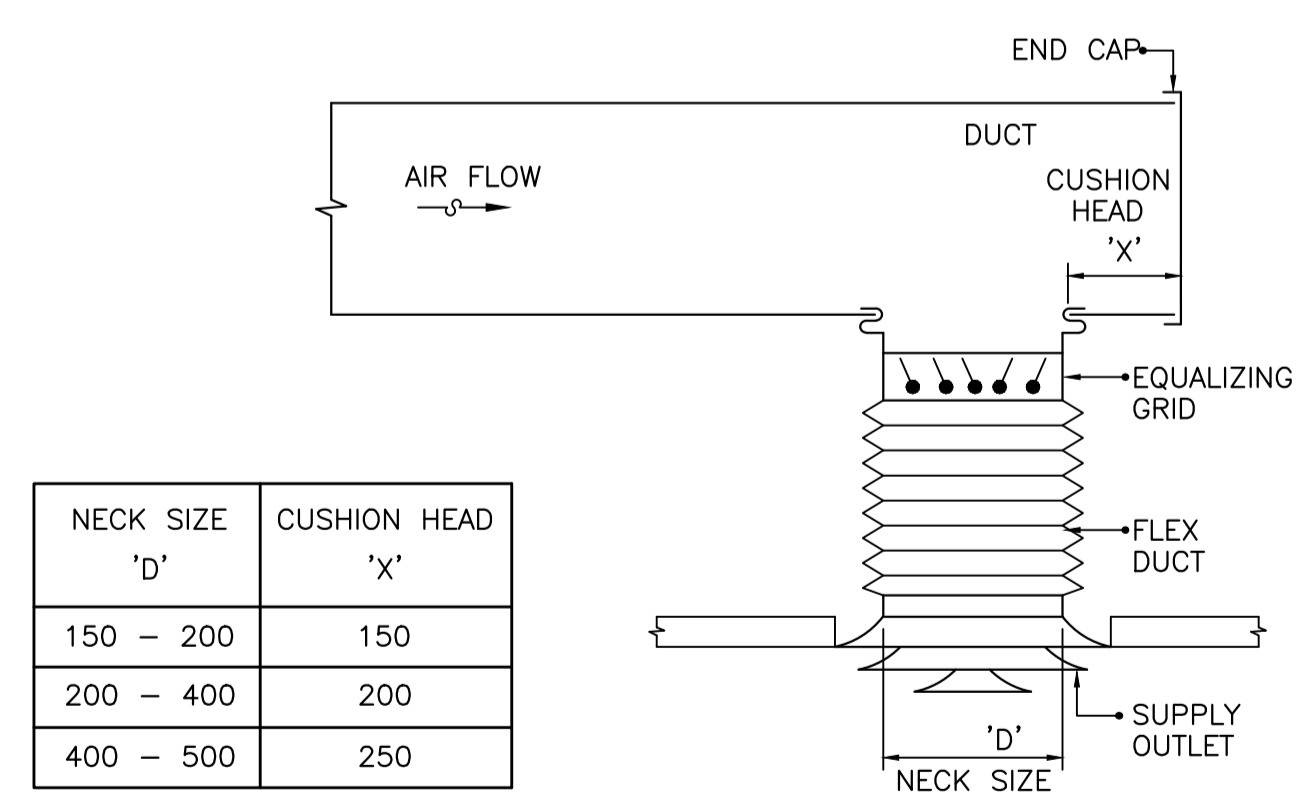


**DETAIL - TYP. ACOUSTIC LINED DUCTWORK** 2  
SCALE = N.T.S. M-6

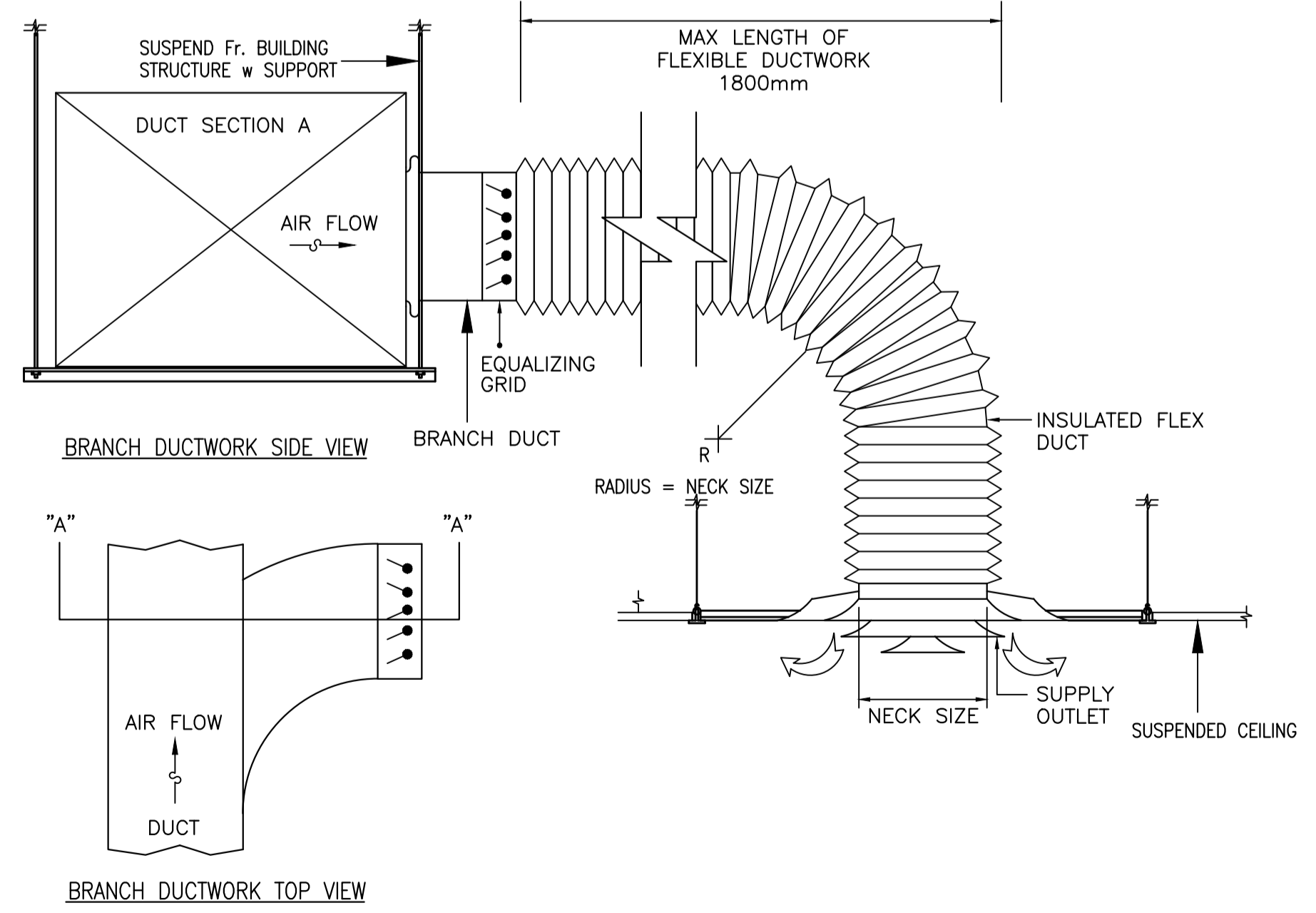


- SEQUENCE: 1. TIME OF DAY CONTROL OF HRV. TIME CLOCK  
2. WHEN UNIT STARTS EXHAUST INTAKE DAMPERS OPEN.
- NOTE: ALL 24 VOLT CONTROL WIRING BY MECHANICAL.

**HRV CONTROL SYSTEM** 8  
SCALE = N.T.S. M-6



**DIFFUSER CONNECTIONS AND CUSHION HEAD** 6  
SCALE = N.T.S. M-6



**DIFFUSER FLEXIBLE DUCTWORK CONNECTIONS DETAIL** 3  
SCALE = N.T.S. M-6

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" This Permit Allows CROSBIE ENGINEERING LIMITED To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL 00123 which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER K. NEIL CLEARLY MARCH 24/16 PROVINCE OF NEWFOUNDLAND

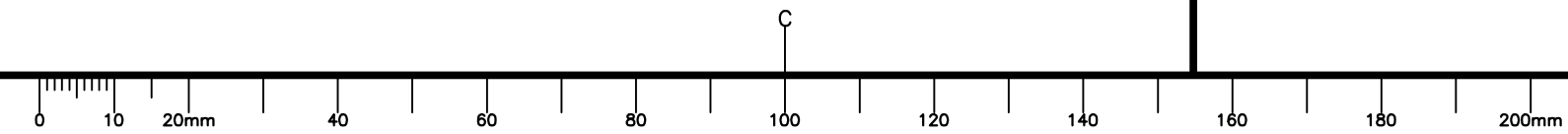
O	ISSUED FOR TENDER	MAR 24/16
B	ISSUED FOR 100% REVIEW	MAR 04/16
A	ISSUED FOR 80% REVIEW	FEB 16/16
revisions		date

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL

VENTILATION DETAILS

designed N.C.	conçu
date MARCH 2016	
drawn M.K.	dessiné
date MARCH 2016	
approved	approuvé
date	
Tender	Soumission
PWC Project Manager Administrateur de projets TPC	
project number no. du projet	
<b>PRO 000607</b>	
drawing no. no. du dessin	
M6	



LEGEND

LIGHTING

- INCANDESCENT/HID/LED/COMPACT FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- INCANDESCENT/HID/LED/COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- FLUORESCENT LIGHTING FIXTURE. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- FLUORESCENT LIGHTING FIXTURE. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION. HATCHING DENOTES UNSWITCHED NIGHT LIGHT.
- FLUORESCENT/HID/LED TRACK LIGHTING. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- HID/LED/ EXTERIOR POLE MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- SINGLE POLE TOGGLE SWITCH. 15 AMP, SPECIFICATION GRADE, WHITE C/W STAINLESS STEEL COVERPLATE. SEE SPEC. FOR MORE INFORMATION. MOUNT 1200mm ABOVE FINISHED FLOOR.  
"a" OR "b" INDICATES CIRCUIT TO BE CONTROLLED.  
"p" INDICATES PILOT LIGHT  
"k" INDICATES KEY OPERATED
- "3" INDICATES THREE WAY SWITCH, SIMILAR TO ABOVE.  
"4" INDICATES FOUR WAY SWITCH, SIMILAR TO ABOVE.
- INCANDESCENT/LED DIMMER TO SUIT LIGHTING FIXTURE BEING DIMMED. RATED 120 VOLT, SPECIFICATION GRADE C/W COVERPLATE. MOUNT 1200mm ABOVE FINISHED FLOOR.
- CEILING MOUNTED OCCUPANCY SENSOR. SEE SPECIFICATION FOR DETAILS
- WALL MOUNTED OCCUPANCY SENSOR, SEE SPECIFICATION FOR DETAILS
- PHOTOCCELL. SEE CONTROLS FOR DESCRIPTION.

EMERGENCY/EXIT LIGHTING

- EMERGENCY LIGHTING BATTERY UNIT "LUMACELL" #RG12S200-2LD7 OR EQUAL. 120 VOLT AC, 12 VOLT DC. BATTERY TO MOUNT 300MM BELOW CEILING. BE RATED FOR 200 WATTS (66W FOR 90 MINUTES MINIMUM) C/W TWO 4W MR-16 LED HEADS & COME WITH A 10 YEAR RATED LIFE MINIMUM. #1 INDICATES BATTERY PACK DESIGNATION.
- REMOTE HEAD "LUMACELL" #MQM2LD7 (DOUBLE) OR EQUAL, 12 VOLT, C/W 4 WATT, MR16 LED LAMPS. WALL MOUNT 300mm BELOW FINISHED CEILING. #1 INDICATES CONNECTION TO BATTERY PACK #1
- EXIT SIGN. " LUMACELL" LA1WU SERIES (RUNNING MAN) NRCAN/CSA COMPLIANT. UNIVERSAL MOUNT 120 VOLT AC & 12 VOLT DC, C/W 25 YEAR LED TYPE LAMPS. SEE LIGHTING FIXTURE SCHEDULE AND SPECIFICATION. ARROWS INDICATE DIRECTION OF TRAVEL
- COMBO EXIT SIGN COMPLETE WITH TWO HEADS. " LUMACELL" LAC-1-W-1250-2-LD7 SERIES NRCAN/CSA COMPLIANT. UNIVERSAL MOUNT 120 VOLT AC & 12 VOLT DC, C/W EXIT SIGN (RUNNING MAN) AND TWO 4 WATT, MR16, 25 YEAR LED TYPE LAMPS. SELF-POWERED.

WIRING DEVICES

- DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF COVERPLATE. "C" INDICATES CEILING MOUNTED. COORDINATE EXACT LOCATION ON SITE. "HRV" INDICATES FOR HRV UNIT, COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL PRIOR TO ROUGH-IN.
- GFCI DUPLEX RECEPTACLE. 120 VOLT, 15 AMP, WHITE, SPECIFICATION GRADE C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR.
- DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 150mm TO CENTER ABOVE COUNTER. "WP" INDICATES WEATHERPROOF COVERPLATE.
- GFCI DUPLEX RECEPTACLE. 120 VOLT, 15 AMP, WHITE, SPECIFICATION GRADE C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 150mm TO CENTER ABOVE COUNTER.
- DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 20 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF COVERPLATE. "RT" INDICATES FOR ROOFTOP UNIT, LOCATED WITHIN 7.5 METERS OF THE ROOFTOP ELECTRICAL EQUIPMENT, NOT LESS THAN 750mm ABOVE FINISHED ROOF. C/W WEATHERPROOF FS BOX AND COVERPLATE. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL PRIOR TO ROUGH-IN.
- GFCI DUPLEX RECEPTACLE. 120 VOLT, 20 AMP, WHITE, SPECIFICATION GRADE C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR.
- DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 20 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 150mm TO CENTER ABOVE COUNTER. "WP" INDICATES WEATHERPROOF COVERPLATE.
- GFCI DUPLEX RECEPTACLE. 120 VOLT, 20 AMP, WHITE, SPECIFICATION GRADE C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 150mm TO CENTER ABOVE COUNTER.
- DUPLEX U-GROUND RECEPTACLE FOR MICROWAVE. 120 VOLT, 15 AMP, SPECIFICATION GRADE WHITE & C/W WHITE NYLON COVERPLATE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 50 AMP, 208 VOLT RANGE RECEPTACLE. CONFIRM EXACT ELECTRICAL REQUIREMENTS ON SITE WITH OWNER. PROVIDE COVERPLATE.
- 30 AMP, 208 VOLT DRYER RECEPTACLE. CONFIRM EXACT ELECTRICAL REQUIREMENTS ON SITE WITH OWNER. PROVIDE COVERPLATE.
- RECESS MULTIMEDIA FLOOR BOX C/W DUPLEX RECEPTACLE AND VOICE/DATA OUTLET.
- CEILING RECESSED DUPLEX RECEPTACLE AND VOICE/DATA OUTLET.

DATA/TELEPHONE/CABLE

- SINGLE TELEPHONE OUTLET C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CORRIDOR CEILING SPACE, C/W INSULATING BUSHINGS & TELEPHONE CABLE.
- SINGLE DATA OUTLET C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CORRIDOR CEILING SPACE, C/W INSULATING BUSHINGS & DATA CABLE.
- DUAL TELEPHONE/DATA OUTLET C/W COVERPLATE. WALL MOUNT 400mm. A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE ABOVE C/W INSULATING BUSHINGS & CABLES. SEE SPECIFICATION.
- CABLE TELEVISION OUTLET C/W COVERPLATE. WALL MOUNT 400mm A.F.F. UNLESS OTHERWISE NOTED. PROVIDE 21mm EMT RUN FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE, C/W INSULATING BUSHINGS & CABLE T.V CABLE.

ELECTRIC HEATING

- ELECTRIC HEATER. SEE HEATER FIXTURE SCHEDULE AND/OR SPECIFICATION FOR DESCRIPTION.
- ELECTRIC HORIZONTAL UNIT HEATER. SEE HEATER FIXTURE SCHEDULE AND/OR SPECIFICATION FOR DESCRIPTION.
- LOW VOLTAGE ELECTRONIC THERMOSTAT. MOUNT 1200mm ABOVE FINISH FLOOR.

CONTROLS & MISCELLANEOUS

- DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION UNLESS NOTED OTHERWISE, EEMAC 2 (SPRINKLER PROOF) FOR INTERIOR AND EEMAC 4X FOR EXTERIOR.
- ELECTRIC MOTOR. SUPPLIED BY MECHANICAL DIVISION, WIRED BY ELECTRICAL DIVISION.
- MANUAL STARTER SUPPLIED AND INSTALLED BY MECHANICAL DIVISION WIRED BY ELECTRICAL DIVISION. WALL MOUNT 1400mm ABOVE FINISHED FLOOR.
- COMBINATION MAGNETIC STARTER SUPPLIED AND INSTALLED BY MECHANICAL DIVISION WIRED BY ELECTRICAL DIVISION. WALL MOUNT 1400mm ABOVE FINISHED FLOOR.
- EXHAUST FAN SPEED CONTROLLER. SUPPLIED AND INSTALLED BY MECHANICAL DIVISION AND WIRED BY ELECTRICAL DIVISION.
- DAMPER MOTOR. SUPPLIED AND INSTALLED BY MECHANICAL DIVISION AND WIRED BY ELECTRICAL DIVISION.
- DESTRATIFICATION FAN 120 VOLT & C/W CORD & PLUG. SURFACE MOUNT ON CEILING. PROVIDE CEILING DUPLEX RECEPTACLE NEAR FAN.
- DESTRATIFICATION FAN SPEED CONTROLLER.
- ELECTRIC HAND DRYER.
- AUTOMATIC DOOR OPERATOR SUPPLIED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL.
- INDICATES LOW VOLTAGE WIRING
- INDICATES LINE VOLTAGE WIRING. SHORT LINE INDICATES LINE CONDUCTOR, LONG LINE INDICATES NEUTRAL CONDUCTOR AND DASHED LINE INDICATES GROUND CONDUCTOR.
- JUNCTION BOX

R - DENOTES EXISTING DEVICE TO BE REMOVED. WIRING AND CONDUIT TO BE REMOVED.  
M - DENOTES EXISTING DEVICE TO REMAIN

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE ALL CUTTING, PATCHING AND PAINTING TO MATCH EXISTING. SEE SPECIFICATION FOR DETAILS. COORDINATE ON SITE.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. DO NOT SCALE FROM DRAWINGS. CONTRACTOR TO ASSESS WORK AREA IN ADVANCE WITH OWNER REPRESENTATIVE FOR COORDINATION OF RELATED DAILY WORK SCHEDULES, PARKING, BUILDING ACCESS, AND STORAGE OF EQUIPMENT.
3. WORK SHALL BE SCHEDULED DURING NORMAL WORKING HOURS CONTRACTOR MAY WORK AFTER NORMAL WORKING HOURS AS COORDINATED BY OWNER REPRESENTATIVE. BUILDING TO REMAIN OPERATIONAL DURING CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND DISPOSALS OF WORK AREA ON A DAILY BASIS. AFTER EACH WORKING SHIFT BUILDING TO BE CLEANED AND FREE OF DEBRIS. BUILDING GARBAGE BINS ARE NOT TO BE USED.
5. ANY ELECTRICAL SYSTEM SHUTDOWN TO BE SCHEDULED AFTER NORMAL BUSINESS HOURS AND SHALL BE COORDINATED WITH OWNER REPRESENTATIVE. SUFFICIENT NOTICE SHALL BE GIVEN. 5 WORKING DAYS NOTICE IS REQUIRED FOR ANY DISRUPTION.
6. WORK TO BE CARRIED OUT IN CONSIDERATION OF CLIENT COMFORT AND OPERATIONS.
7. ALL WIRING TO BE INSTALLED IN CONDUIT AS INDICATED.
8. ACCESS TO FACILITY TO BE COORDINATED WITH OWNER REPRESENTATIVE.
9. PROVIDE TYPED REVISED PANELBOARD DIRECTORIES FOR ALL PANELBOARDS WHERE BRANCH CIRCUITS WERE EITHER REMOVED OR ADDED.
10. LABEL ALL EQUIPMENT WITH LAMACOID TAGS ACCORDING TO PWGSC STANDARDS.
11. ALL EXISTING ELECTRICAL EQUIPMENT REMOVED TO BE TURNED OVER TO OWNER. IF OWNER REFUSES THEN CONTRACTOR TO REMOVE FROM SITE AND DISPOSE.
12. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS ISSUED FOR CONSTRUCTION AND STAMPED AND SIGNED BY THE PROJECT ENGINEER.

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER  
Class "A"  
This Permit Allows  
CROSBIE ENGINEERING LIMITED  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG-NL 00123 which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER  
KENNETH R.P. NEIL  
SIGNATURE  
MAR. 24 / 16  
DATE  
NEWFOUNDLAND & LABRADOR

O	ISSUED FOR TENDER	MAR.24/16
B	ISSUED FOR 100% REVIEW	MAR.04/16
A	ISSUED FOR 80% REVIEW	FEB.16/16
revisions		date

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

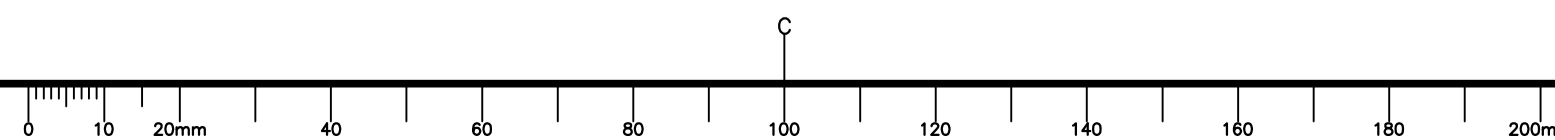
project project

ECO-SCIENCE BUILDING RECAPITALIZATION  
T.N.N.P., NL

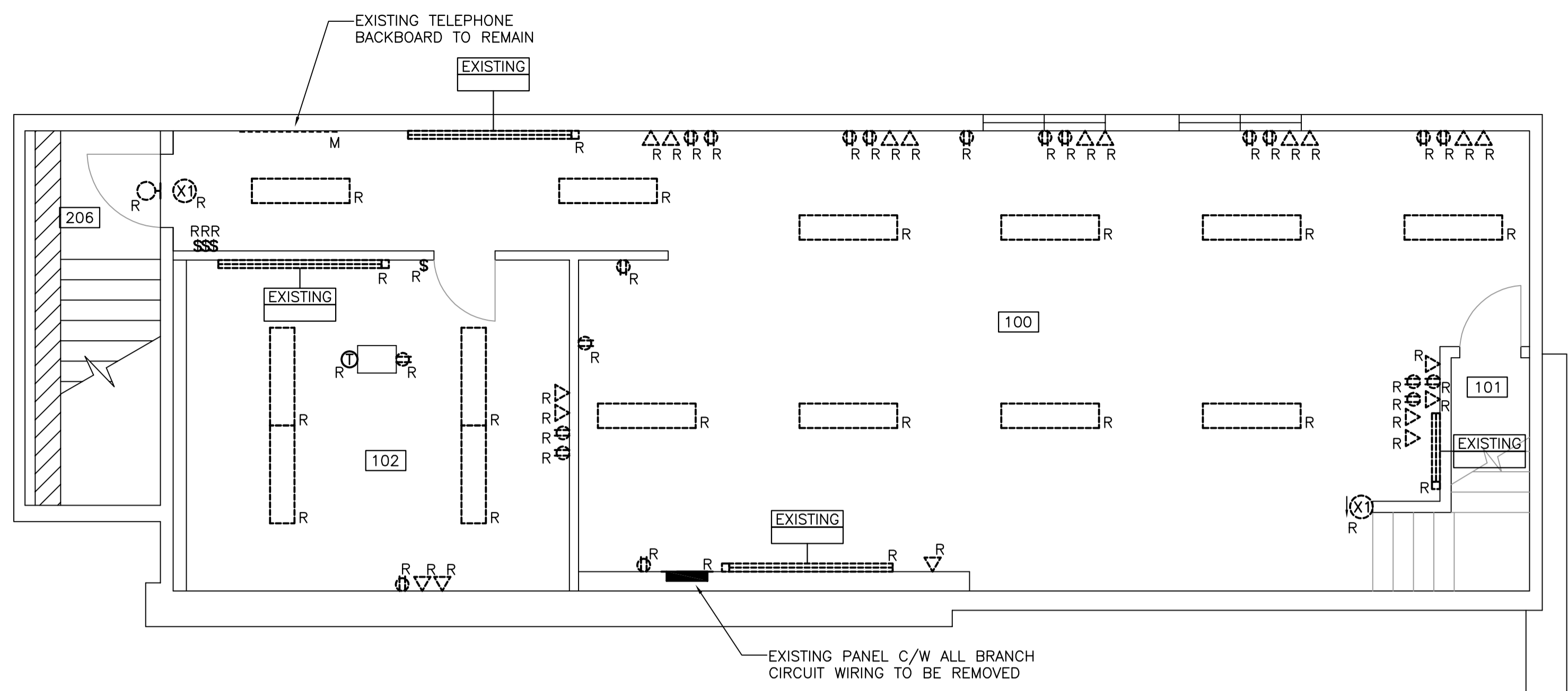
drawing dessin

LEGEND

designed K.N.	conçu
date MARCH 2016	
drawn B.COLLETT	dessiné
date MARCH 2016	
approved	approuvé
date	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>E1</b>	



CONTRACTOR TO REMOVE ALL EXISTING LIGHTING FIXTURES, EXIT & EMERGENCY LIGHTING, RECEPTACLES, OUTLETS, HEATERS, THERMOSTATS, TOGGLE SWITCHES AND WIRING DEVICES WITHIN THIS AREA UNLESS OTHERWISE NOTED, AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. COORDINATE ON SITE.



**BASEMENT PLAN - DEMOLITION**  
SCALE: 1:50

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" This Permit Allows CROSSBIE ENGINEERING LIMITED To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL 00123 which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER KENNETH R.P. NEIL SIGNATURE DATE MAR.24/16 NEWFOUNDLAND & LABRADOR

0	ISSUED FOR TENDER	MAR.24/16
B	ISSUED FOR 100% REVIEW	MAR.04/16
A	ISSUED FOR 80% REVIEW	FEB.16/16
revisions		date

A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B C
C	C drawing no. dessin no.	

project projet

**ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL**

drawing dessin

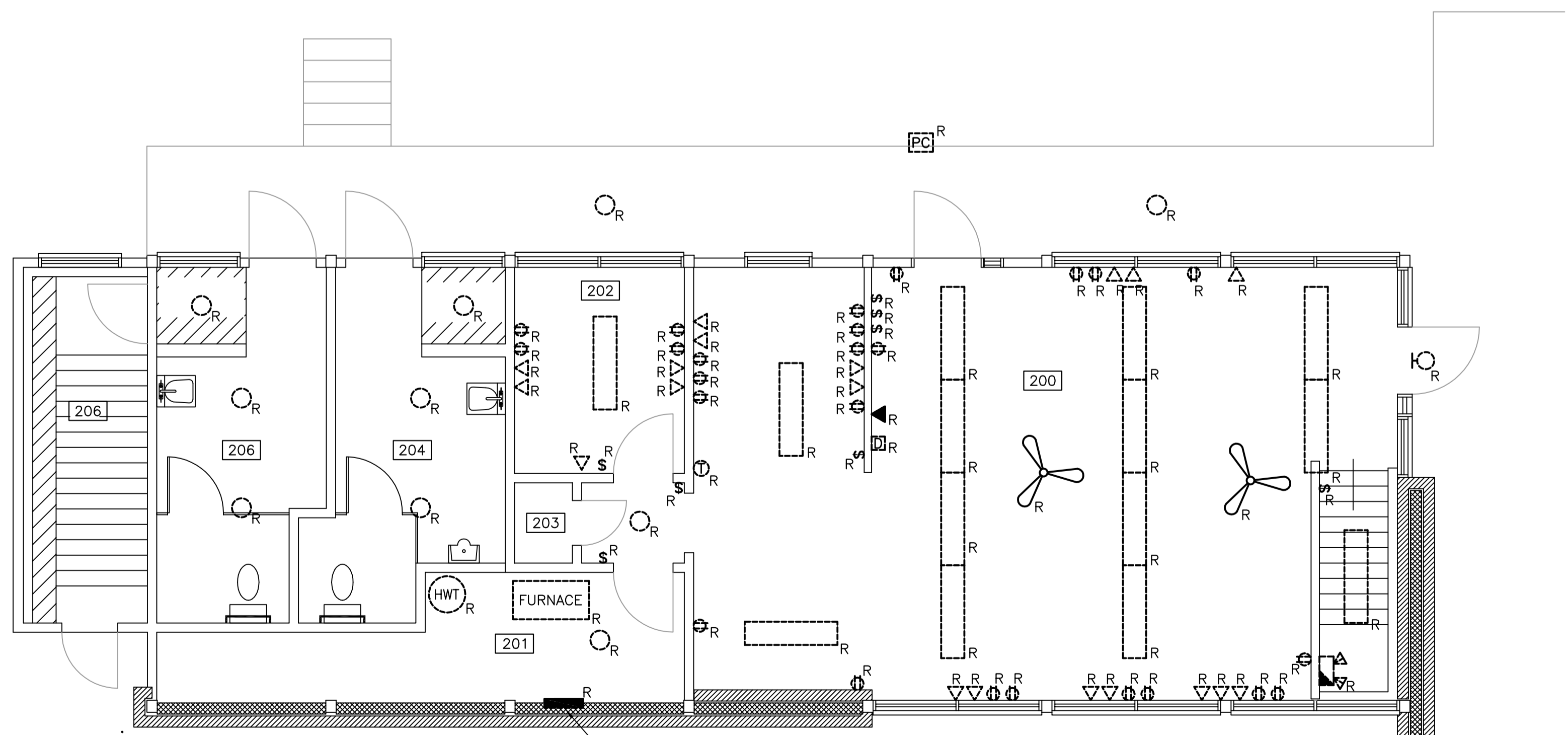
**BASEMENT & MAIN FLOOR PLAN DEMOLITION**

designed K.N. conclu  
date MARCH 2016  
drawn B.COLLETT dessine  
date MARCH 2016  
approved approuve  
date  
Tender Soumission

PWC Project Manager / Administrateur de projets TPC  
project number / no. du projet  
**PRO 000607**

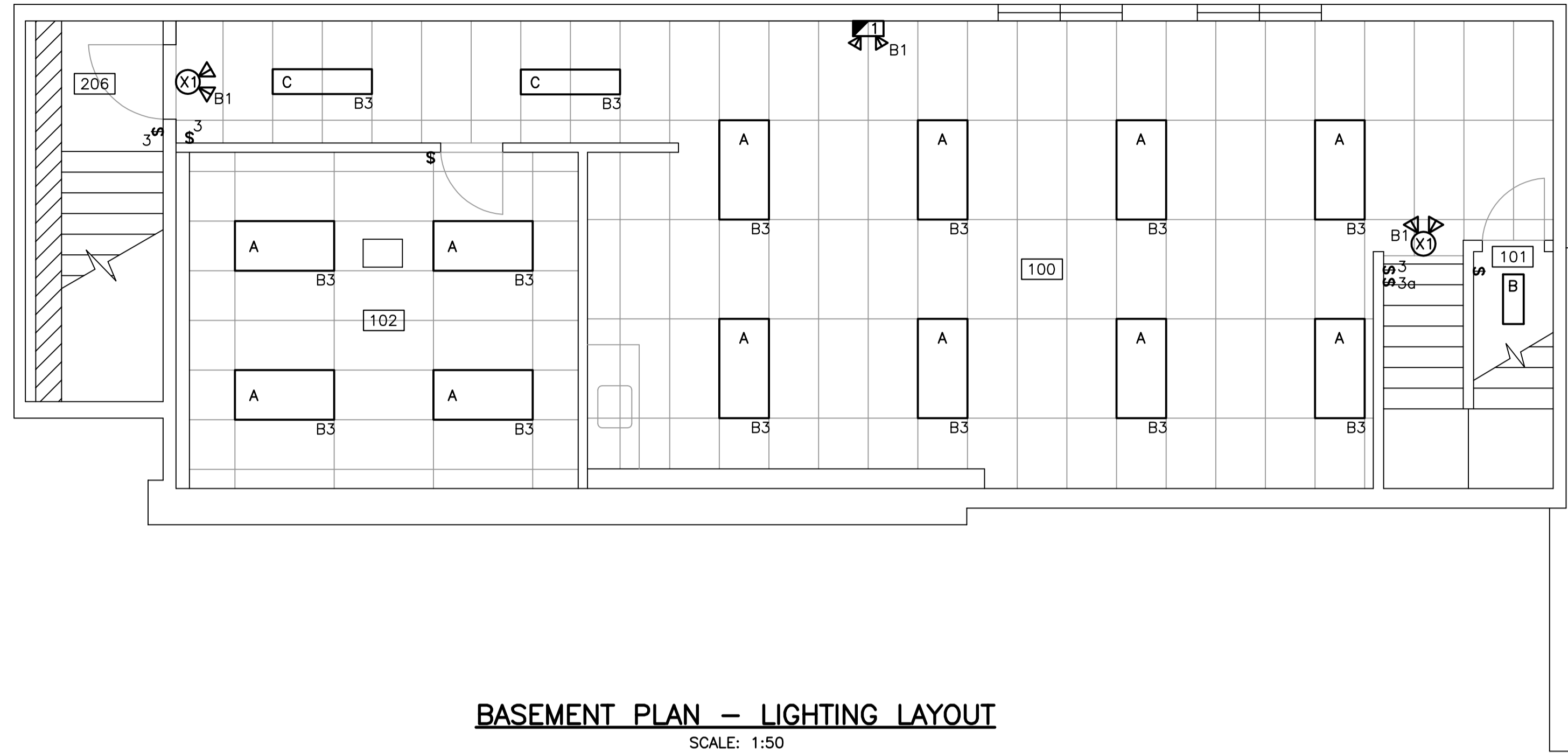
drawing no. / no. du dessin  
**E2**

CONTRACTOR TO REMOVE ALL EXISTING LIGHTING FIXTURES, EXIT & EMERGENCY LIGHTING, RECEPTACLES, OUTLETS, HEATERS, THERMOSTATS, TOGGLE SWITCHES AND WIRING DEVICES WITHIN THIS AREA UNLESS OTHERWISE NOTED, AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. COORDINATE ON SITE.



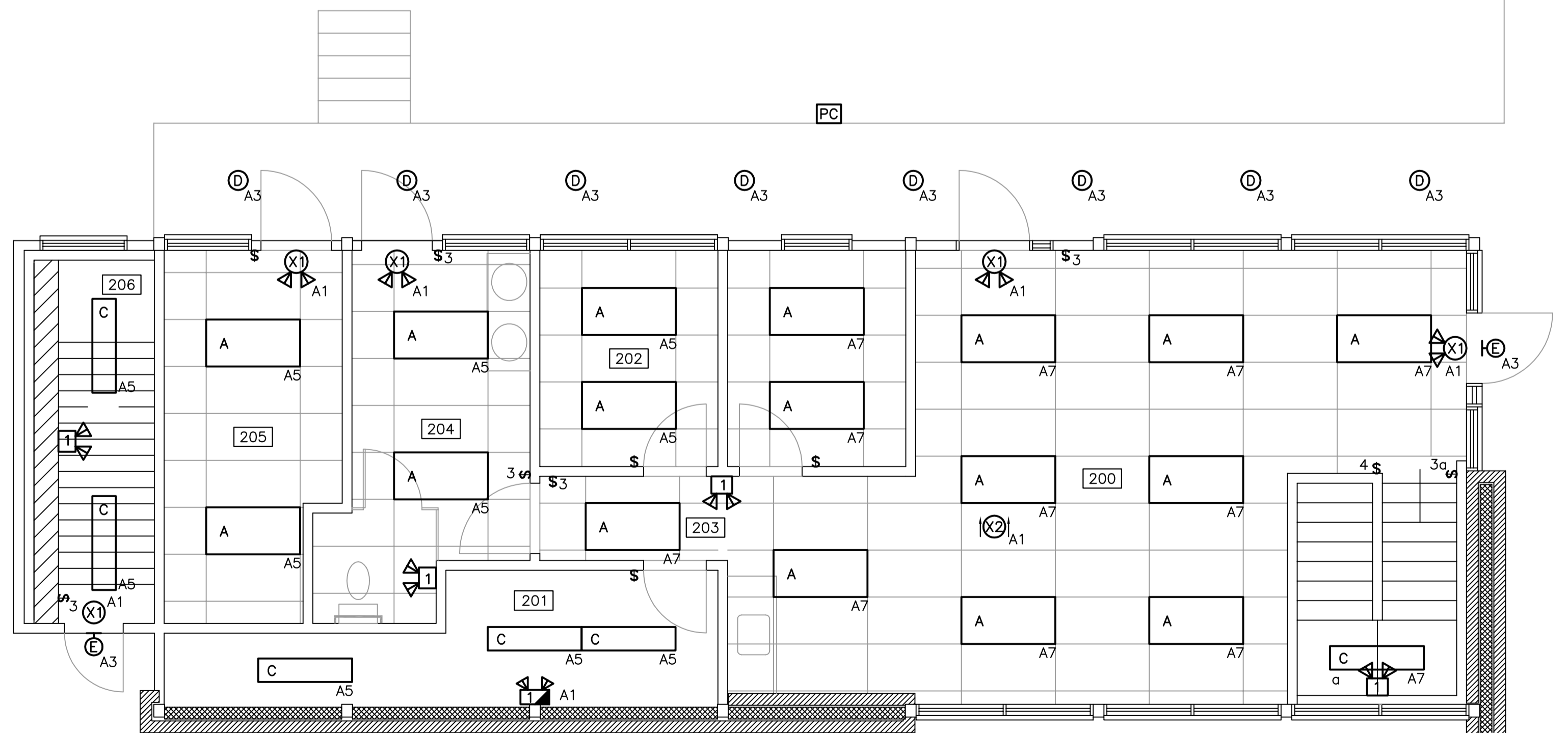
**MAIN FLOOR PLAN - DEMOLITION**  
SCALE: 1:50





**BASEMENT PLAN – LIGHTING LAYOUT**

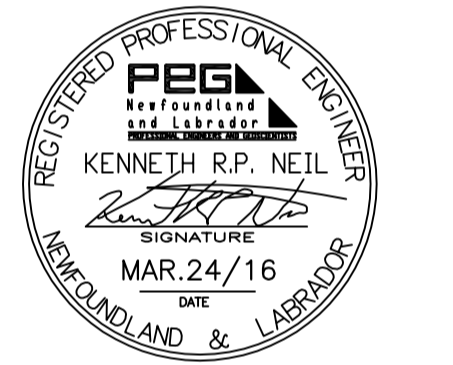
SCALE: 1:50  
0m 1m 2m 3m 4m 5m



**MAIN FLOOR PLAN – LIGHTING LAYOUT**

SCALE: 1:50  
0m 1m 2m 3m 4m 5m

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
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C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

project project

**ECO-SCIENCE BUILDING  
RECAPITALIZATION  
T.N.N.P., NL**

drawing dessin

**BASEMENT &  
MAIN FLOOR  
PLAN LIGHTING  
LAYOUT**

designed K.N. conçu

date MARCH 2016

drawn B.COLLETT dessiné

date MARCH 2016

approved approuvé

date

Tender Soumission

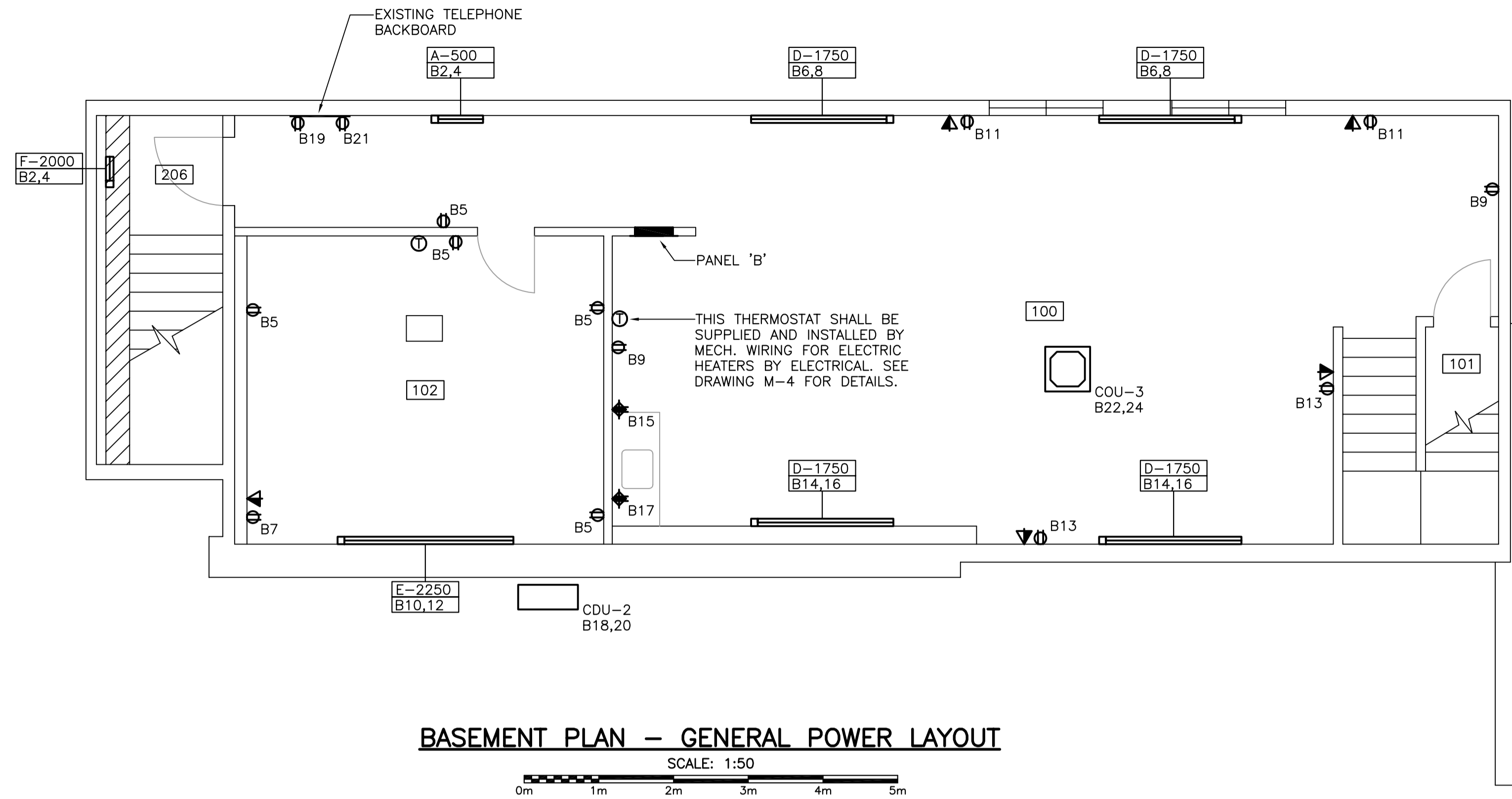
PWC Project Manager Administrateur de projets TPC

project number no. du projet

**PRO 000607**

drawing no. no. du dessin

**E3**

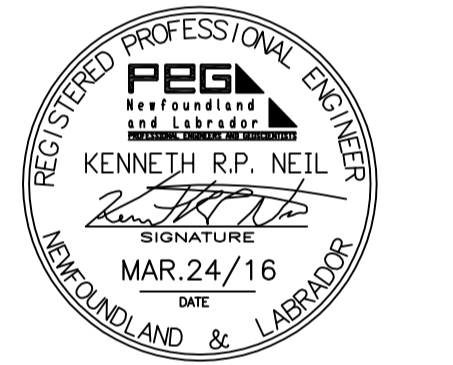


**BASEMENT PLAN – GENERAL POWER LAYOUT**

SCALE: 1:50



PROVINCE OF NEWFOUNDLAND  
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C	C drawing no. dessin no.	

project project

**ECO-SCIENCE BUILDING  
RECAPITALIZATION  
T.N.N.P., NL**

drawing dessin

**BASEMENT & MAIN  
FLOOR PLAN GENERAL  
POWER LAYOUT**

designed K.N. conçu

date MARCH 2016

drawn B.COLLETT dessiné

date MARCH 2016

approved approuvé

date

Tender Soumission

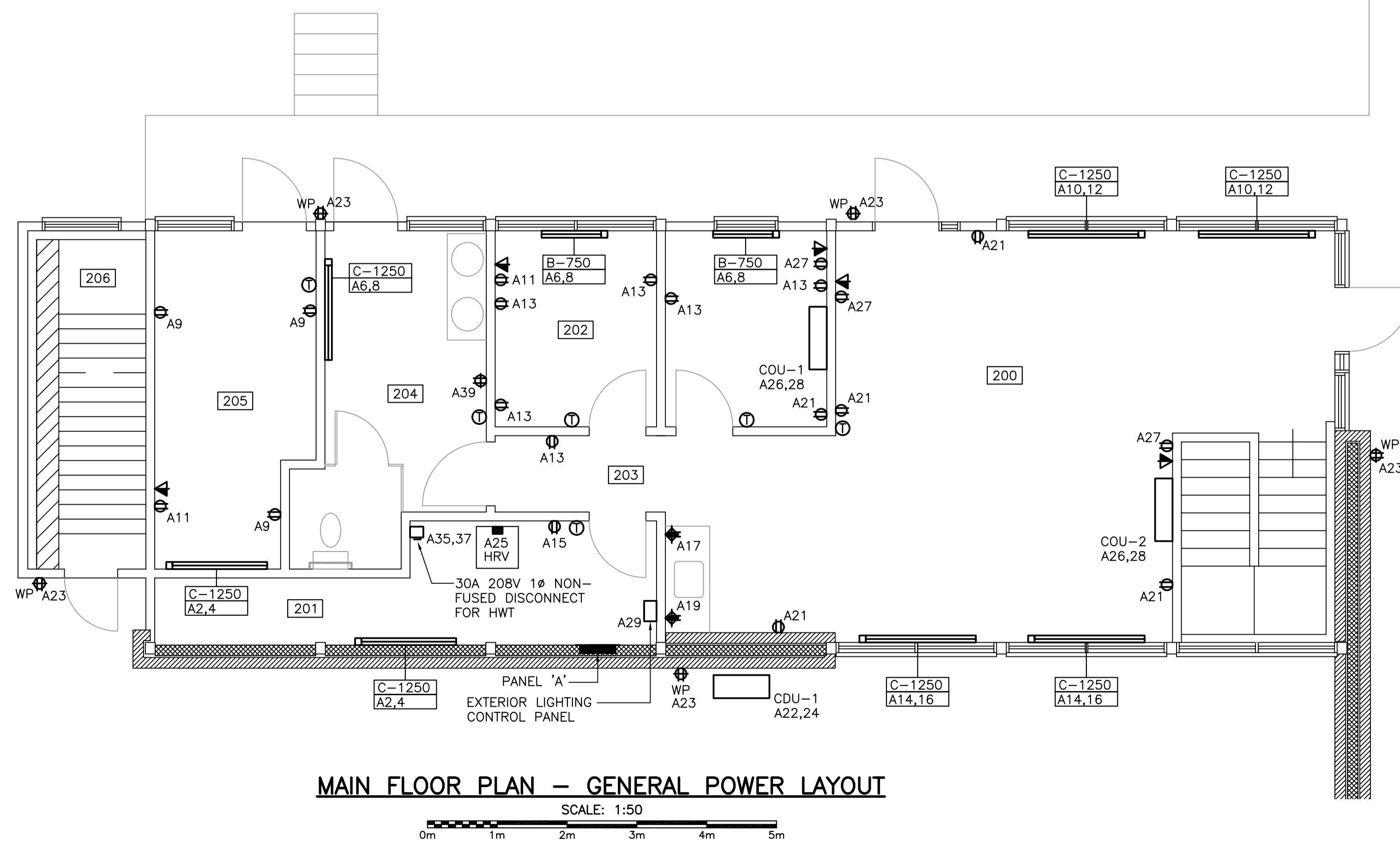
PWC Project Manager Administrateur de projets TPC

project number no. du projet

**PRO 000607**

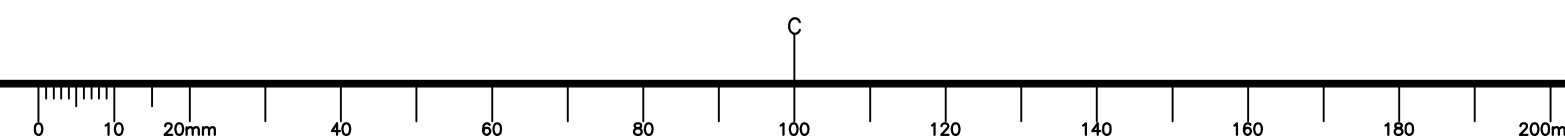
drawing no. no. du dessin

**E4**



**MAIN FLOOR PLAN – GENERAL POWER LAYOUT**

SCALE: 1:50



VOLTS	120/208	PANEL NAME	'A'	MAINS RATED	200 AMPS
PHASE	3	LOCATION	MAIN FLOOR	MOUNTING	FLUSH
WIRE	4	FED FROM	TRANSFORMER	ENTER AT	BOTTOM
				CIRCUITS	60

DESIGNATION	WATTAGE			WIRE	BKR	CCT	A	B	C	CCT	BKR	WIRE	WATTAGE			DESIGNATION
	Ø A	Ø B	Ø C										Ø A	Ø B	Ø C	
* EXIT & EMERGENCY LIGHTING	320			12	15	1				2	30	10	1250			HEAT-201,205
EXTERIOR LIGHTING		200		12	15	3				4	2	12	1250			
LIGHTS-201,202,204,205,206			500	12	15	5				6	30	10	1375	1375		HEAT-202,204
LIGHTS-200,203	500			12	15	7				8	2	10	1375			
REC-205		360		12	15	9				10	30	10	1250			HEAT-200
REC-204,205			700	12	15	11				12	2	10	1250			
REC-200,202	600			12	15	13				14	30	10	1250			HEAT-200
REC-201		120		12	15	15				16	2	10	1250			
REC-COUNTERTOP			240	12	20	17				18	20					SPARE
REC-COUNTERTOP	240			12	20	19				20	2					
REC-200		600		12	15	21				22	40	8	2080	2080		CDU-1
REC-EXTERIOR			480	12	15	23				24	2					
REC-HRV	220			12	15	25				26	15	12	210			COU-1 & COU-2
REC-200		1050		12	15	27				28	2	12	210			
EXTERIOR LIGHTING CONTROL PANEL			250	12	15	29				30	15					SPARE
POTABLE WATER PUMP	1500			12	20	31				32	2					
HOT WATER TANK		1500		12	20	33				34	100	3	8030	5645		PANEL 'B'
REC-204		120		12	15	39				40	15					SPARE
SPARE				15	41					42	15					SPARE
SPARE				15	43					44	15					SPARE
SPARE				15	45					46	20					SPARE
SPARE				15	47					48						
SPARE				20	49					50						
										52						
										54						
										56						
										58						
										60						

Ø A TOTAL :	14880
Ø B TOTAL :	18020
Ø C TOTAL :	14020
TOTAL LOAD	46920 KW
	130 AMP

\* - INDICATES LOCK-ON DEVICE  
\*\* - INDICATES GROUND FAULT CIRCUIT BREAKER

VOLTS	120/208	PANEL NAME	'B'	MAINS RATED	100 AMPS
PHASE	3	LOCATION	BASEMENT	MOUNTING	FLUSH
WIRE	4	FED FROM	PANEL 'A'	ENTER AT	BOTTOM
				CIRCUITS	42

DESIGNATION	WATTAGE			WIRE	BKR	CCT	A	B	C	CCT	BKR	WIRE	WATTAGE			DESIGNATION
	Ø A	Ø B	Ø C										Ø A	Ø B	Ø C	
* EXIT & EMERGENCY LIGHTING	260			12	15	1				2	20	12	1250			HEAT-100,206
LIGHTS-100,101,102		800		12	15	3				4	2	12	1250			
REC-100,102			480	12	15	5				6	30	10	1750	1750		HEAT-100
REC-102	700			12	15	7				8	2	10	1125			
REC-100		240		12	15	9				10	20	12	1125	1125		HEAT-102
REC-100			700	12	15	11				12	2	10	1125			
REC-100	700			12	15	13				14	30	10	1750	1750		HEAT-100
REC-COUNTERTOP		240		12	20	15				16	2					
REC-COUNTERTOP			240	12	20	17				18	30	10	1500	1500		CDU-2
REC-201 (TELEPHONE EQUIPMENT)	120			12	15	19				20	2	12	120	120		COU-3
REC-201 (DATA EQUIPMENT)		120		12	15	21				22	15	12				
SPARE				15	23					24	2					
SPARE				15	25					26	15					SPARE
SPARE				15	27					28	15					SPARE
SPARE				15	29					30	15					SPARE
SPARE				20	31					32	20					SPARE
				15	33					34						
				15	35					36						
				15	37					38						
				15	39					40						
				15	41					42						

Ø A TOTAL :	8030
Ø B TOTAL :	5645
Ø C TOTAL :	5915
TOTAL LOAD	19.6 KW
	55 AMP

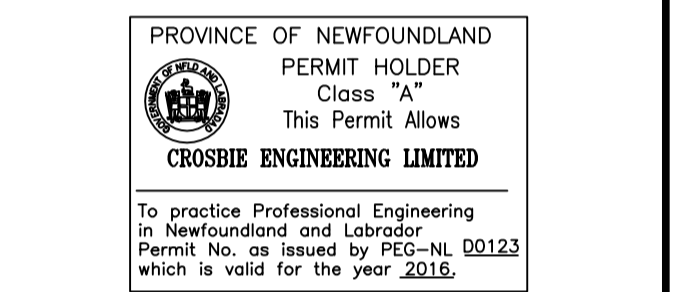
\* - INDICATES LOCK-ON DEVICE  
\*\* - INDICATES GROUND FAULT CIRCUIT BREAKER

LIGHTING FIXTURE SCHEDULE							
SYMBOL	LIGHT SOURCE	MOUNTING	LAMPS	VOLTS	MANUFACTURER	CAT. NO.	REMARKS
A	LED	RECESSED TROFFER	4000 LUMENS	120	LITHONIA	2GTL 4 40L EZ1 LP835	
B	LED	CEILING SURFACE	2000 LUMENS	120	LITHONIA	LBL 2 20L EZ1 LP835	
C	LED	CEILING SURFACE	4000 LUMENS	120	LITHONIA	LBL 4 40L EZ1 LP835	
D	LED	CEILING SURFACE	3600 LUMENS	120	LITHONIA	OLWCM 36	
E	LED	WALL SURFACE	13 WATT LED	120	LITHONIA	OLW X1 LED 13W 40K	
(X1)	LED	UNIVERSAL	1 x 2 WATT	120	READY LITE	RA1WU-SP-NBC2010	RUNNING MAN, SINGLE FACE
(X2)	LED	UNIVERSAL	2 x 2 WATT	120	READY LITE	RA2WU-SP-NBC2010	RUNNING MAN, DOUBLE FACE

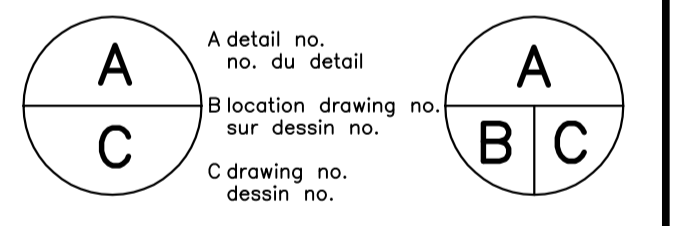
NOTES (LIGHTING FIXTURE SCHEDULE):  
1. RECESSED FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL BE COMPLETE WITH A FIRE RATED METAL CAN OR GYPROC BOX TO MAINTAIN THE FIRE RATING INTEGRAL OF THE CEILING. COORDINATE WITH GENERAL CONTRACTOR.

ELECTRIC HEATER SCHEDULE							
TYPE	DESCRIPTION	VOLTS	WATTS	MANUFACTURER	CAT. NO.	MOUNTING	REMARKS
A	BASEBOARD	240, 1Ø	500	OUELLET	OFM0500	WALL SURFACE	SEE NOTE 1, 2 & 3
B	BASEBOARD	240, 1Ø	750	OUELLET	OFM0750	WALL SURFACE	SEE NOTE 1, 2 & 3
C	BASEBOARD	240, 1Ø	1250	OUELLET	OFM1250	WALL SURFACE	SEE NOTE 1, 2 & 3
D	BASEBOARD	240, 1Ø	1750	OUELLET	OFM1750	WALL SURFACE	SEE NOTE 1, 2 & 3
E	BASEBOARD	240, 1Ø	2250	OUELLET	OFM2250	WALL SURFACE	SEE NOTE 1, 2 & 3
F	FAN FORCED	240, 1Ø	2000	OUELLET	OAC2000	WALL SURFACE	SEE NOTE 1, 2 & 4

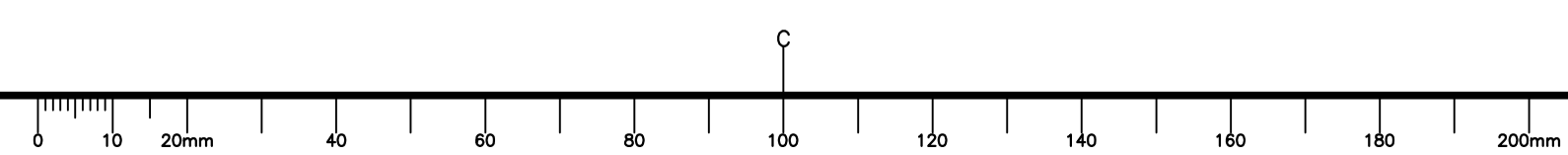
NOTES (ELECTRIC HEATER SCHEDULE):  
1. BOTTOM OF ELECTRIC HEATERS TO BE MOUNTED 25mm ABOVE FINISHED FLOOR.  
2. ALL HEATERS TO BE WHITE IN COLOR.  
3. HEATER C/W BUILT-IN 24VAC RELAY AND TRANSFORMER KIT.  
4. HEATER C/W BUILT-IN THERMOSTAT.



0	ISSUED FOR TENDER	MAR.24/16
B	ISSUED FOR 100% REVIEW	MAR.04/16
A	ISSUED FOR 80% REVIEW	FEB.16/16
revisions		date

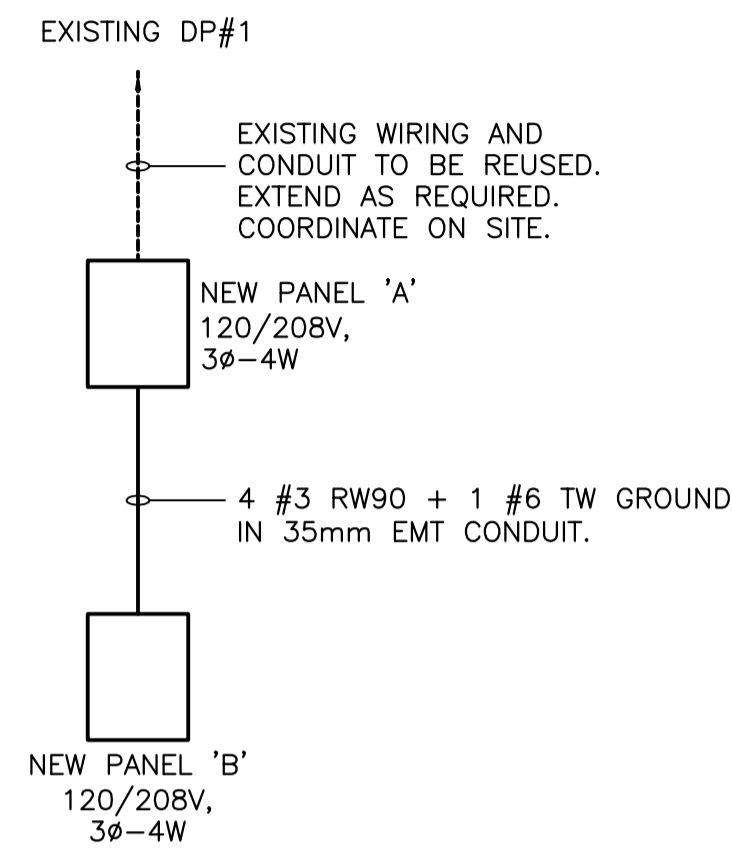


project	projet
<b>ECO-SCIENCE BUILDING RECAPITALIZATION T.N.N.P., NL</b>	
drawing	dessin
<b>PANEL AND SCHEDULES</b>	
designed K.N.	conçu
date	MARCH 2016
drawn	B.COLLETT
date	MARCH 2016
approved	approuvé
date	
Tender	Soumission
PWC Project Manager	Administrateur de projets TPC
project number	no. du projet
<b>PRO 000607</b>	
drawing no.	no. du dessin
<b>E5</b>	

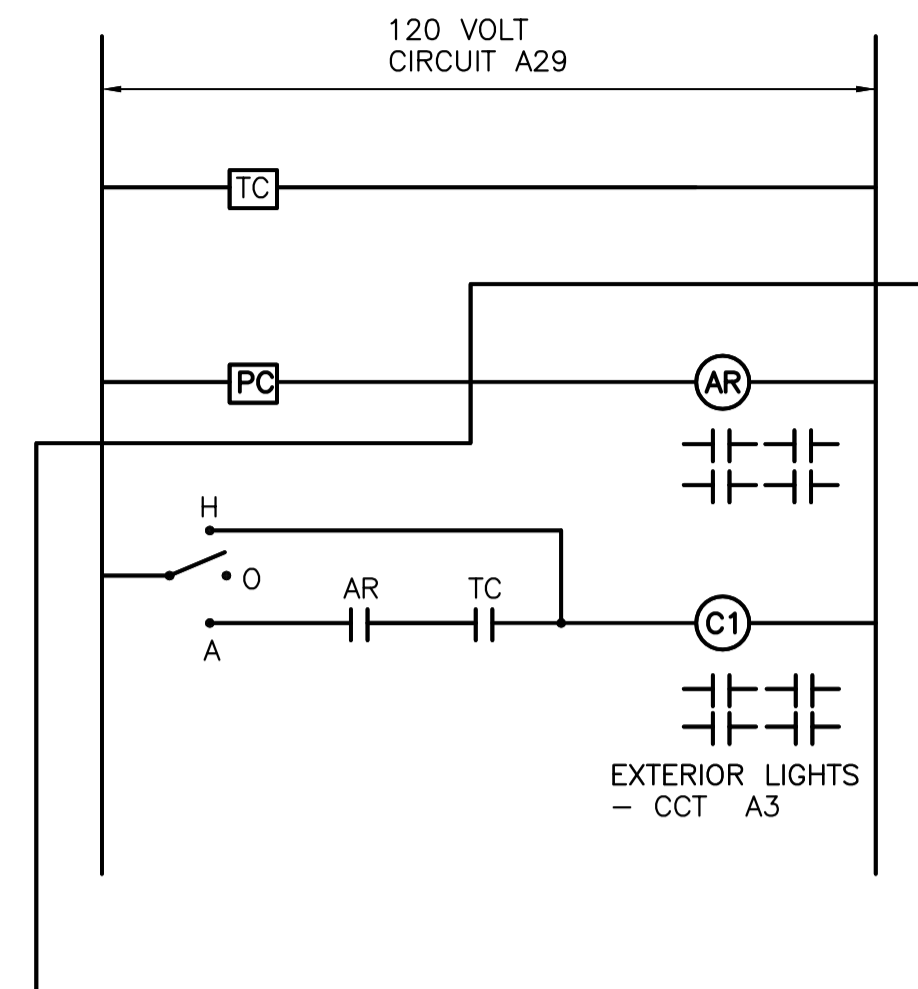




DASHED LINE INDICATES EXISTING  
SOLID LINE INDICATES NEW



**PARTIAL ELECTRICAL SINGLE LINE DIAGRAM**  
N.T.S.



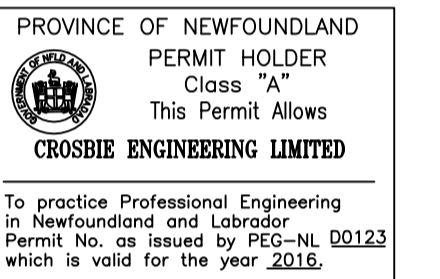
EEMAC 2 ENCLOSURE. C/W HINGED COVER & LOCKING DOOR. PROVIDE LAMICOID NAMEPLATES READING "EXTERIOR LIGHTING CONTROL PANEL" AND LIST SEQUENCE OF OPERATION:  
- HAND POSITION - LIGHTING ON  
- OFF POSITION - LIGHTING OFF  
- AUTO POSITION - LIGHTS ARE CONTROLLED BY TIME CLOCK AND PHOTOCELL.

MOUNT NAMEPLATES OVER SWITCHES. SURFACE MOUNT CONTROL PANEL 1.4m A.F.F. IN ELECTRICAL ROOM.

**LEGEND**

- PC** PHOTOCELL. "INTERMATIC CAT. NO. K1121 OR EQUAL. 120 VOLT. WALL MOUNT 300mm. BELOW BLDG. EAVE.
- AR** AUXILIARY RELAY C/W 4 N.O. CONTACTS.
- C1** 2 POLE CONTACTOR. 120 VOLT, 20 AMP.
- H-O-A** HAND-OFF-AUTO SELECTOR SWITCH. MOUNT IN ENCLOSURE DOOR.
- TC** TIME CLOCK "PARAGON" EC7000/120 OR EQUAL. 120 VOLT, C/W 4-N.O. CONTACTS. WALL MOUNT 1400mm. IN ELECTRICAL ROOM. SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR.

**EXTERIOR LIGHTING CONTROL PANEL**  
N.T.S.



0	ISSUED FOR TENDER	MAR.24/16
B	ISSUED FOR 100% REVIEW	MAR.04/16
A	ISSUED FOR 80% REVIEW	FEB.16/16
revisions		date

A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B C
C	C drawing no. dessin no.	

project project

**ECO-SCIENCE BUILDING  
RECAPITALIZATION  
T.N.N.P., NL**

drawing dessin

**DETAILS**

designed K.N. conçu

date MARCH 2016

drawn B.COLLETT dessiné

date MARCH 2016

approved approuvé

date

Tender Soumission

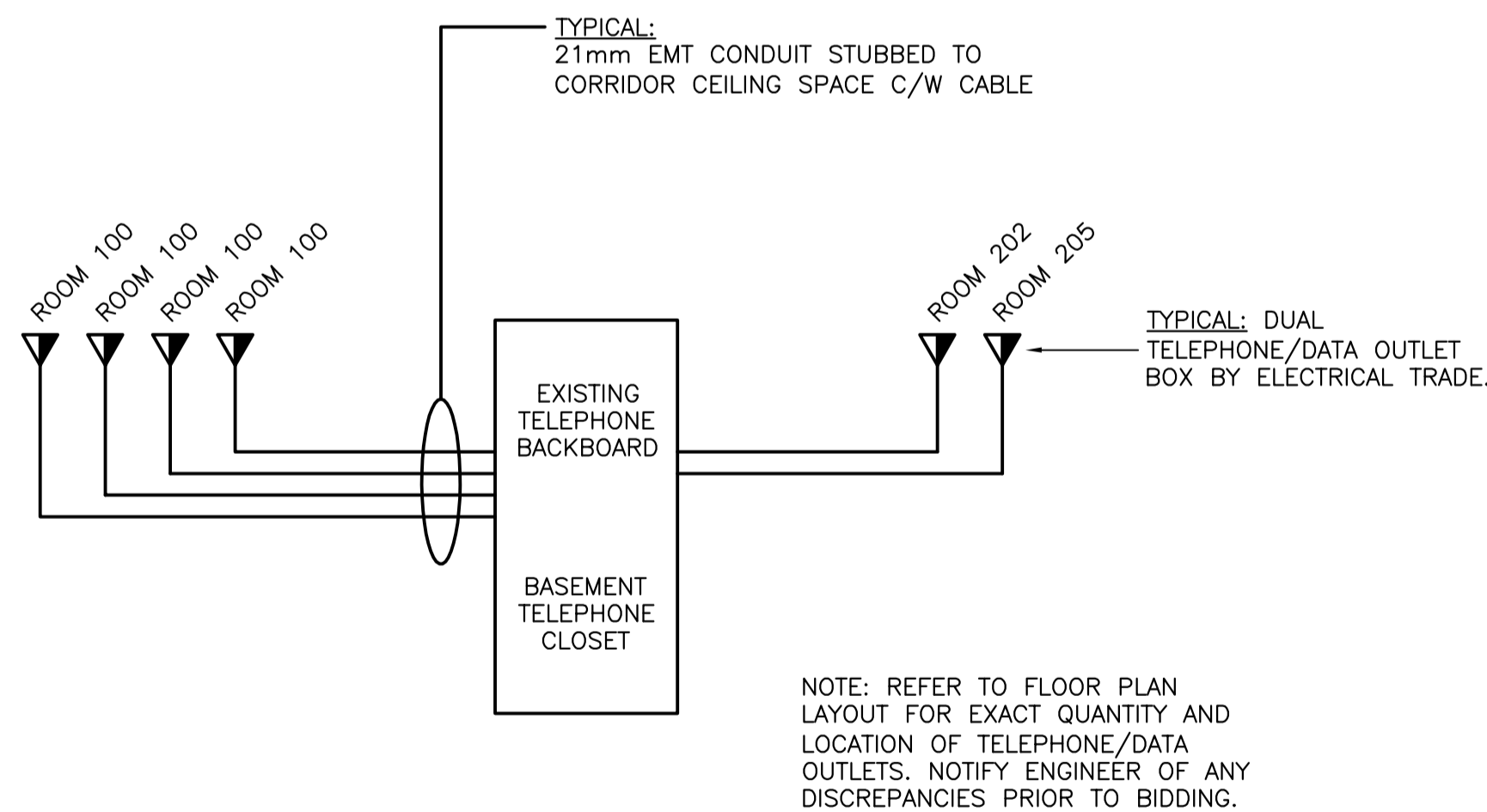
PWC Project Manager Administrateur de projets TPC

project number no. du projet

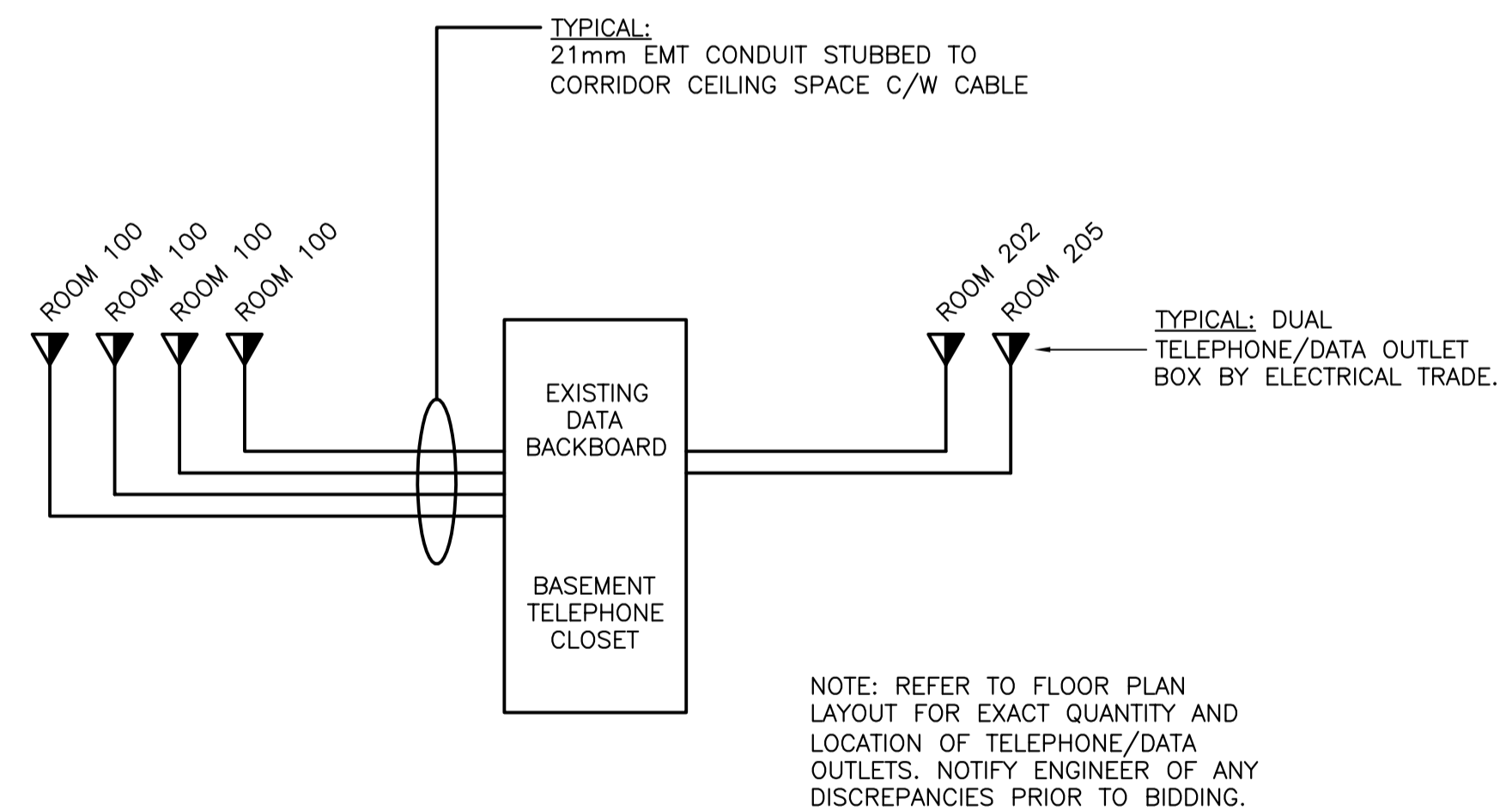
**PRO 000607**

drawing no. no. du dessin

**E6**



**TELEPHONE RISER DIAGRAM**  
N.T.S.



**DATA RISER DIAGRAM**  
N.T.S.