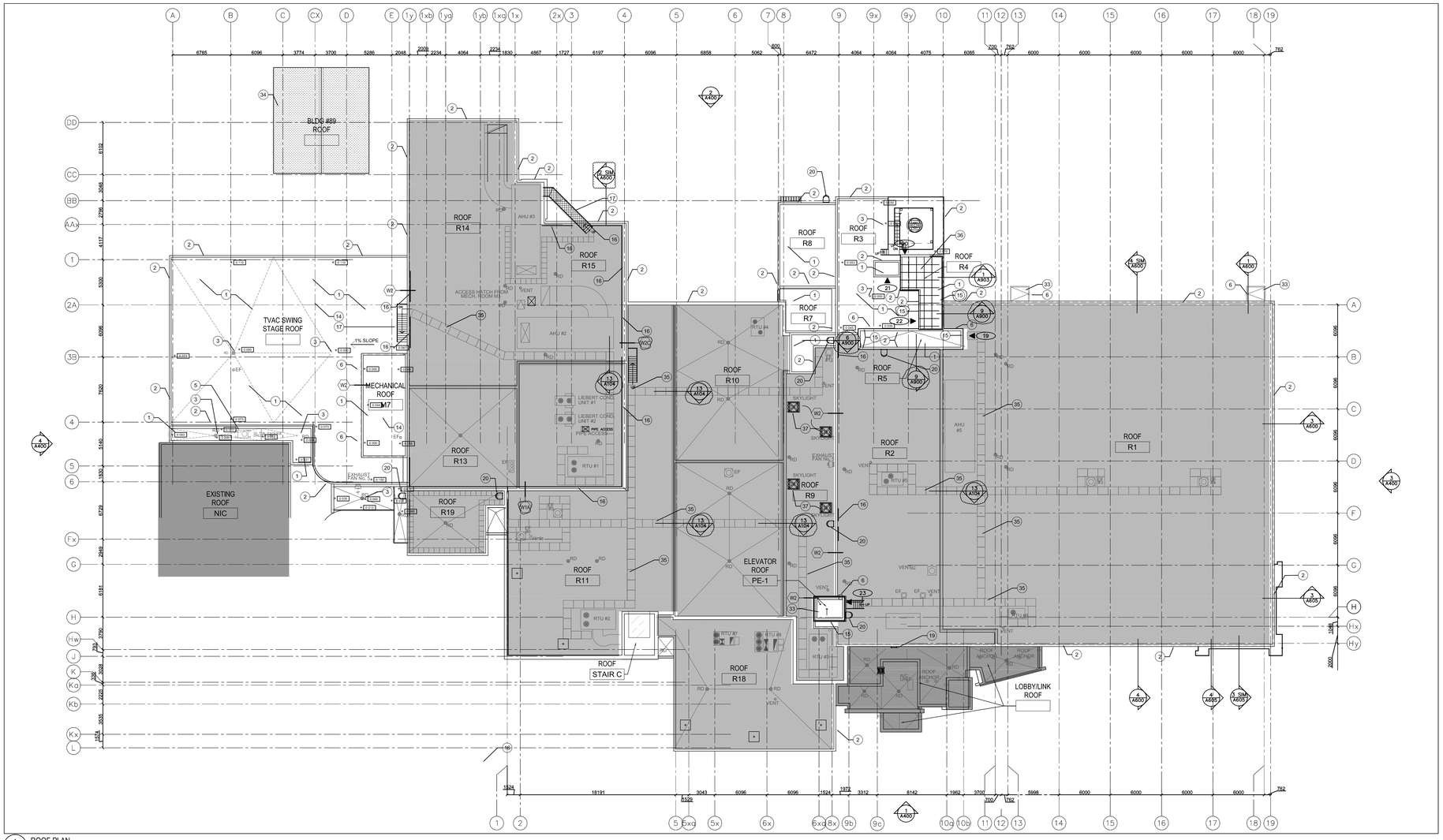
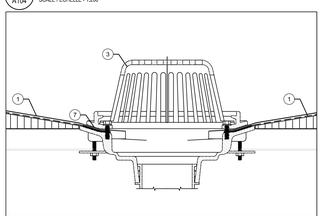
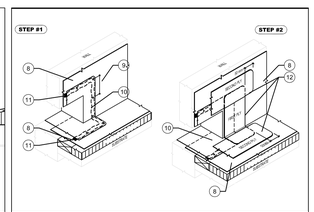


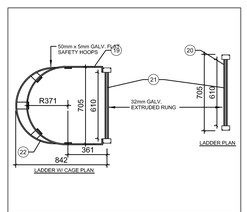
1 A104 ROOF PLAN
SCALE / ECHELLE - 1:200



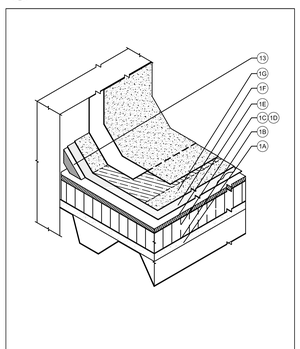
2 A104 ROOF DRAIN
SCALE / ECHELLE - 1:5



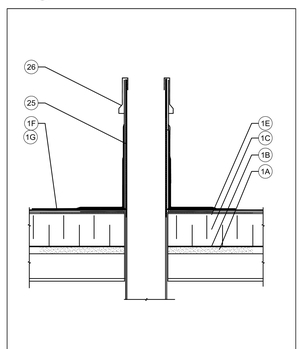
3 A104 SCUPPER DETAIL
SCALE / ECHELLE - N.T.S.



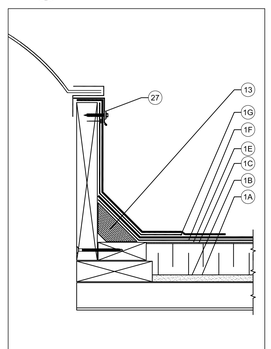
4 A104 ROOF LADDER PLAN
SCALE / ECHELLE - 1:20



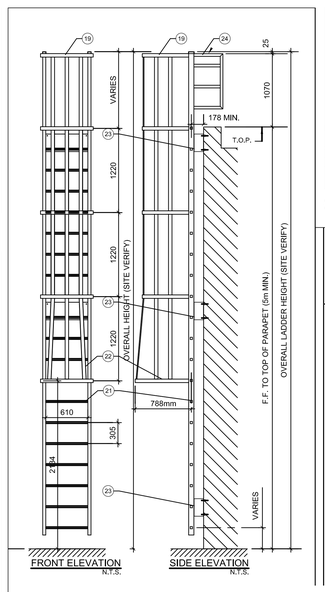
5 A104 TYPICAL ROOF CONSTRUCTION
SCALE / ECHELLE - N.T.S.



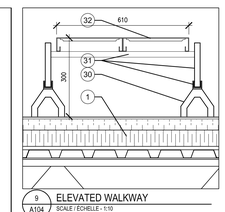
6 A104 PIPE/VENT DETAIL
SCALE / ECHELLE - 1:5



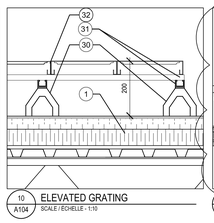
7 A104 ROOF CURB DETAIL
SCALE / ECHELLE - 1:5



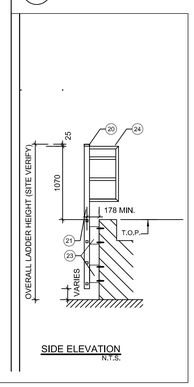
8 A104 ROOF LADDER
SCALE / ECHELLE - N.T.S.

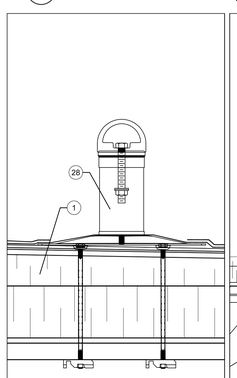


9 A104 ELEVATED WALKWAY
SCALE / ECHELLE - 1:10

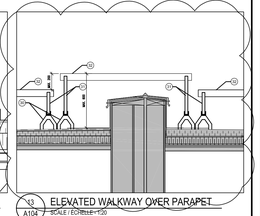


10 A104 ELEVATED GRATING
SCALE / ECHELLE - 1:10

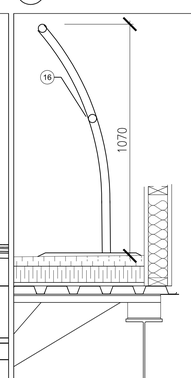




11 A104 ROOF ANCHOR
SCALE / ECHELLE - 1:5



13 A104 ELEVATED WALKWAY OVER PARAPET
SCALE / ECHELLE - 1:20



12 A104 GUARDRAIL
SCALE / ECHELLE - 1:10

DRAWING NOTES:

1. R1 ROOF NEW MODIFIED BITUMEN ROOFING SYSTEM
   - A- 13MM EXTERIOR GYPSUM SHEATHING (FASTENED OVER THE EXISTING METAL DECKING + FIRE TAPE ON JOINTS)
   - B- BASE SHEET VAPOUR BARRIER – SANDED SURFACE
   - C- 127MM POLYISOCYANURATE INSULATION (ADHERED)
   - D- TAPERED INSULATION TO ACHIEVE MIN 1%
   - E- 6MM ASPHALT BASED OVERLAY BOARD (ADHERED + FIRE TAPE ON JOINTS)
   - F- 1-PLY MODIFIED BITUMEN BASE SHEET MEMBRANE (TORCH APPLIED)
   - G- 1-PLY MODIFIED BITUMEN CAP SHEET MEMBRANE (TORCH APPLIED) WITH GRAY ELASTOMETRIC TOP COATING (BLACK COLOUR FOR WALKABLE SURFACE AREAS)
2. NEW METAL FLASHINGS REPLACE EXISTING WOOD BACKING AS REQUIRED.
3. NEW ROOF DRAINS IN ORIGINAL LOCATIONS. REFER DETAILS AND MECHANICAL SERIES DRAWINGS
4. NEW ALUMINUM CAGED ROOF ACCESS LADDER
5. RE-INSTALLED MECHANICAL UNIT. REFER MECHANICAL SERIES DRAWINGS
6. NEW SCUPPERS IN EXISTING LOCATIONS
7. CONTINUOUS BEAD OF WATERBLOCK
8. ROOFING MEMBRANE
9. GALVANIZED ROOFING FASTENERS AT 100MM O/C
10. WELDED METAL SCUPPER SLEEVE
11. CONTINUOUS ROOF SEALANT
12. SELF ADHEREING MEMBRANE FLASHING
13. CONTINUOUS FIBRE CANT
14. NEW ROOF ANCHOR RESTRAINT LOCATION
15. FIXED PIPE RAILING AT 1070 ABOVE ROOF MEMBRANE
16. STAND ALONE METAL GUARDRAIL SYSTEM COMPLETE WITH COUNTER WEIGHTS. TOP RAIL 1070MM ABOVE ROOF SURFACE REFER DETAIL 12/A104
17. RE-INSTALL EXISITING METAL STAIRS AND PLATFORMS TO EXISTING LOCATIONS, GRIND DOWN ALL SURFACES AND RE-PAINT
18. PATCH IN NEW ROOF TO MATCH EXISTING
19. NEW METAL ROOF LADDER (OPEN)
20. NEW METAL ROOF LADDER (CAGED)
21. 32MM STEEL RUNGS
22. STEEL FLAT BAR FRAMING 65MM X 10MM
23. 5 MM STEEL WALL BRACKETS. WITH THRU WALL ATTACHMENTS
24. 38 MM STEEL GRAB BARS. SERRATED
25. EXISTING VENT
26. ALUM. SPIN CAP
27. NEW 24 Ga. METAL FLASHINGS
28. NEW ROOF ANCHOR SECURED TO STRUCTURE
29. RESERVED
30. RUBBER ROOF SUPPORT PADS
31. GALV. U-CHANNEL STRUT SUPPORTS
32. GALV. HEAVY DUTY GRATING BOLTED TO STRUTS
33. R2 ROOF NEW MODIFIED BITUMEN ROOFING SYSTEM
    EXISTING ROOF STRUCTURE
    13mm ROOF SHEATHING
    VAPOUR BARRIER
    75mm RIGID INSULATION
    6mm PROTECTION BOARD
    2 PLY MOD-BIT ROOF MEMBRANE
34. R3 ROOF METAL ROOFING SYSTEM
    PRE-FINISHED METAL ROOF PANELS ON EXISTING METAL CLIPS
    127mm POLYISOCYANURATE INSULATION
    A/V BARRIER AT ALL SEAMS AND PENETRATIONS
    EXISTING LINER PANEL
35. NEW ELEVATED WALKWAYS REFER TO DETAILS 11/12 A104
36. OPEN STEEL GRATE WALKABLE SURFACE ABOVE ROOF
37. NEW ROOF MEMBRANE UP AND OVER PARAPET. RE-INSTALL EXISTING SKYLIGHTS AND SEAL SIM. TO DETAIL 7/A-104

ROOF CONSTRUCTION		
TAG	TYPE	CONSTRUCTION
R1		• 13MM EXTERIOR GYPSUM SHEATHING • VAPOUR BARRIER • 127MM POLYISOCYANURATE INSULATION • TAPERED INSULATION TO ACHIEVE MIN 1% • 6MM ASPHALT BASED OVERLAY BOARD • 1-PLY MODIFIED BITUMEN BASE SHEET MEMBRANE • 1-PLY MODIFIED BITUMEN CAP SHEET MEMBRANE
R2		• EXISTING ROOF STRUCTURE • 13mm ROOF SHEATHING • VAPOUR BARRIER • 75mm RIGID INSULATION • 6mm PROTECTION BOARD • 1-PLY MODIFIED BITUMEN BASE SHEET MEMBRANE • 1-PLY MODIFIED BITUMEN CAP SHEET MEMBRANE
R3		• PRE-FINISHED METAL ROOF PANELS ON EXISTING METAL CLIPS • 127MM POLYISOCYANURATE INSULATION • A/V BARRIER AT ALL SEAMS AND PENETRATIONS • EXISTING METAL LINER PANEL
R4		• EXISTING ROOF STRUCTURE • 13mm ROOF SHEATHING • VAPOUR BARRIER • RIGID INSULATION - ALIGN TO EXISTING • TAPERED INSULATION - ALIGN TO EXISTING • 6mm PROTECTION BOARD • 2 PLY MODIFIED BITUMEN ROOF MEMBRANE - TIE NEW MEMBRANE INTO EXISTING.

LEGEND:

EXISTING ROOFING NOT IN SCOPE

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Canadian Space Agency / Agence spatiale canadienne
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No.	Revision	Date
5.		
4.	ISSUED FOR ADDENDUM #1	2016.07.26
3.	ISSUED FOR TENDER	2016.05.05
2.	ISSUED FOR 99% REVIEW	2016.02.02
1.	ISSUED FOR 66% REVIEW	2015.11.17

ONTARIO ASSOCIATION OF ARCHITECTS
DINO DI SANO
LICENCE
7209
PROFESSIONAL STAMP

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

project / projet
DAVID FLORIDA LABORATORY
BUILDING No. 65, SHIRLEY'S BAY, ONTARIO
BUILDING ENVELOPE REFIT PROJECT

drawing / dessin
ROOF FLOOR PLAN

designed	D.S./S.J	concu
date	04-08-2016	
drawn	B.H/M.B	dessine
date	04-08-2016	
reviewed	B.H.	examine
date	04-08-2016	
approved	D.S.	approuve
date	04-08-2016	
scale	as noted	
project no.	CSA15-G1	no. du projet
drawing no.	A-104	no. du dessin