



P-OAAN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE P-OAAN HANDRAIL INSTALLATION!

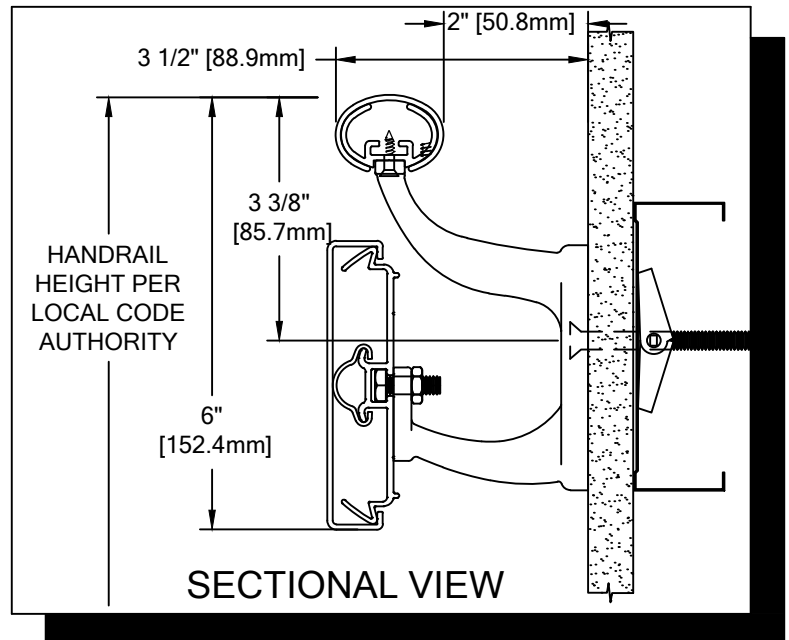
THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF P-OAAN HANDRAIL. CONTAINED WITHIN IS THE THE TECHNICAL INFORMATION AND INSTALLATION TECHNIQUES REQUIRED TO COMPLETE AN EFFICIENT, NEAT AND LONG-LASTING INSTALLATION.

P-OAAN HANDRAIL MUST BE INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID ANY PRODUCT WARRANTIES AND RESULT IN AN UNSUCCESSFUL INSTALLATION. FOR SPECIFIC QUESTIONS REGARDING THE INSTALLATION OF P-OAAN HANDRAIL PLEASE NOTIFY CUSTOMER SERVICE ON 1300 272 602.

INSPECT ALL MATERIALS FOR DAMAGE OR MISSING PARTS. IF YOU DISCOVER DAMAGED OR MISSING MATERIALS, PLEASE NOTIFY CUSTOMER SERVICE ON 1300 272 602.

IMPORTANT NOTES

1. ALL LINEAL MATERIAL TO BE SUPPLIED IN STOCK LENGTHS. ALUMINUM AND ACROVYN IN LENGTHS UP TO 10'-0". THIS MATERIAL IS TO BE FIELD CUT USING QUALITY EQUIPMENT TO INSURE THAT ALL CUTS ARE SQUARE. WHEN CUTTING MATERIAL SECTIONS, C/S RECOMMENDS USING AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT, TO MINIMIZE CHIPPING AND MAINTAIN JOINT ALIGNMENT.
2. ALL DIMENSIONS ARE TYPICAL.
3. FOR DRYWALL/PLASTER WALL CONSTRUCTION, IT IS RECOMMENDED FOR FASTENERS TO BE ENGAGED INTO METAL/WOOD STUDS TO MAINTAIN MAXIMUM PULLOUT STRENGTH.
4. INSTALL OUTSIDE CORNERS FIRST.
5. INSTALL LONGEST RUN OF HANDRAIL FIRST.
6. ALUMINUM RETAINER SPLICE SHOULD NOT EXCEED 3" [76.2mm] DISTANCE FROM A BRACKET.
7. THE DISTANCE BETWEEN AN ACROVYN SPLICE JOINT AND AN ALUMINUM RETAINER SPLICE JOINT SHOULD NOT BE LESS THAN 12" [304.8mm].
8. MATERIAL MUST REACH 65°F MIN. TO 75° MAX. 24 HOURS PRIOR TO INSTALLATION. THIS IS ESSENTIAL TO MINIMIZE EXPANSION AND CONTRACTION.
9. MAY REQUIRE USE OF FIRE PUTTY WHEN INSTALLED ON FIRE WALL WITH TOGGLE BOLTS.
10. THIS HANDRAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT.





P-OAAN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

COMPONENTS & WALL FASTENERS



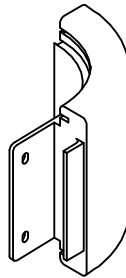
ACROVYN HANDRAIL COVER
(24U800xxx)



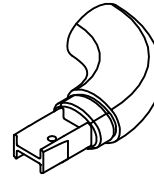
RC-10 CUSHION
(24U952108)



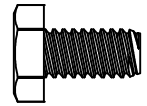
ACROVYN CRASH
RAIL COVER
(24U009xxx)



CRASH RAIL END CAP
(24I087xxx)



HANDRAIL END CAP
(24I840xxx-RH, SHOWN)
(24I841xxx-LH)



FASTENER #1
1/4 X 3/4"
HEX BOLT
(90H052002)



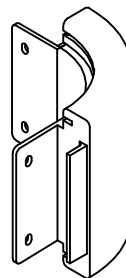
FASTENER #2
1/4 X 3/4" FLAT WASHER
(90H006003)



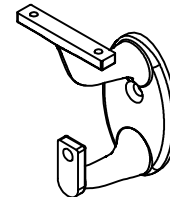
ACROVYN HANDRAIL
RETAINER
(24A221000)



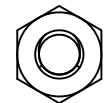
ACROVYN CRASH
RAIL RETAINER
(24A294000)



CRASH RAIL OUTSIDE
CORNER ASSEMBLY



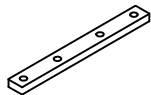
PLATFORM MOUNTING
BRACKET
(24M994xxx)



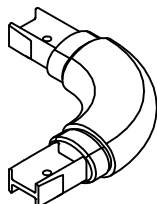
FASTENER #3
1/4-20 HEX NUT
(90H010001)



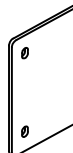
FASTENER #4
#6 X 5/8" PHILLIPS
FLAT HEAD SMS
(90H231002)



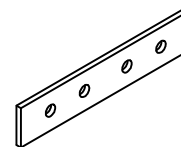
HANDRAIL
SPLICE PLATE
(90H150010)



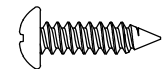
HANDRAIL OUTSIDE
CORNER ASSEMBLY



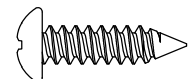
CRASH RAIL END CAP
MOUNTING PLATE
(90H145010)



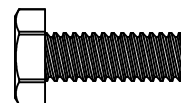
CRASH RAIL
RETAINER SPLICE BAR
(24I976000)



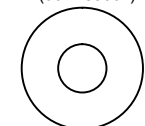
FASTENER #5
#8 X 5/8" PHILLIPS
PAN HEAD SMS
(90H043002)



FASTENER #6
10-16 X 30 mm
WAFER HEAD SCREW
(90H739002)



FASTENER #8
1/4 X 1/2"
HEX BOLT
(90H008002)



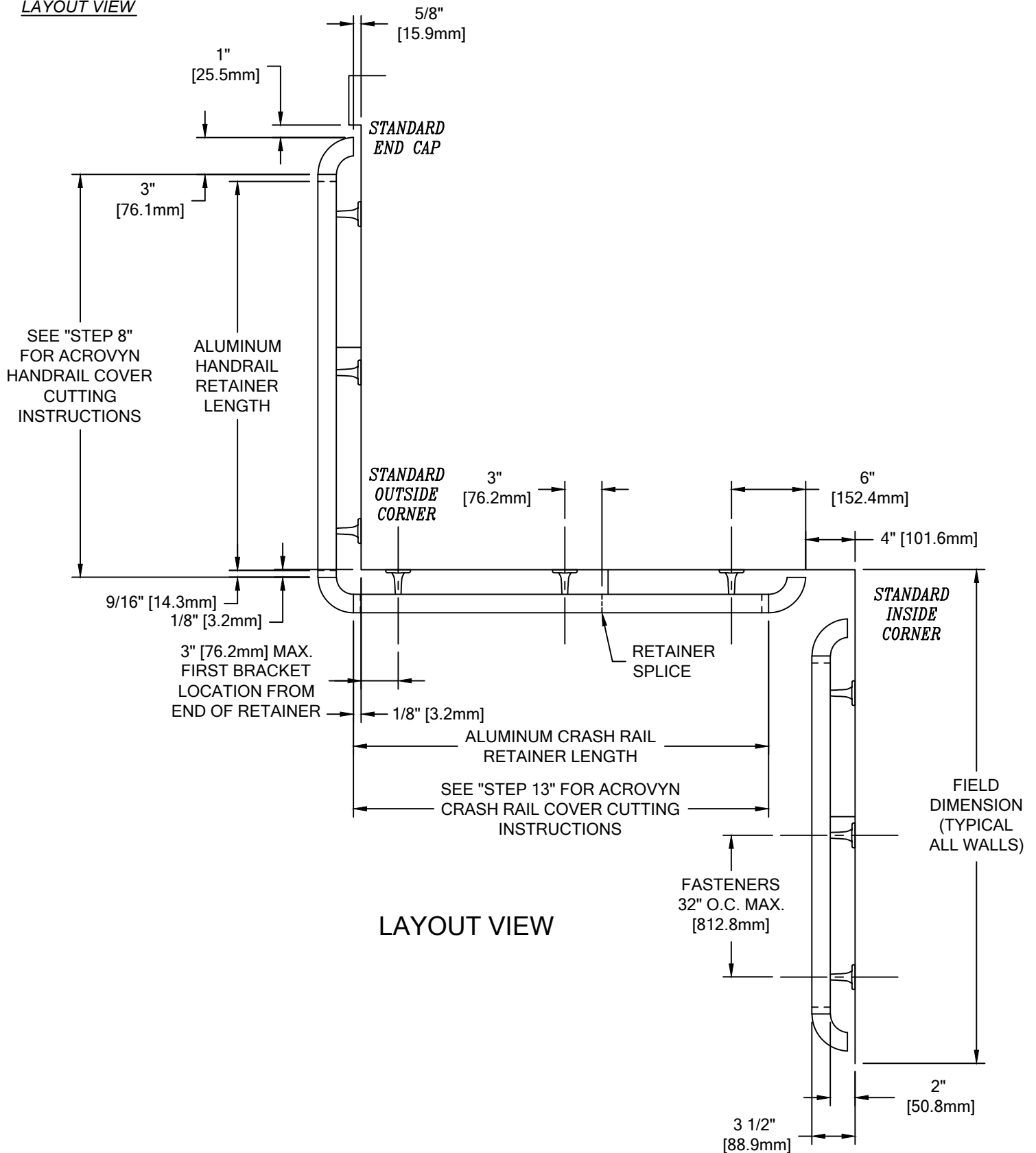
FASTENER #7
1/4" FLAT WASHER
(90H007003)

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETERS		C/S PART NUMBER
		WALL	RETAINER	
STEEL STUD/GYPSUM WALL	1/4-20 X 3" FLAT HEAD BOLT WITH TOGGLE	3/4"	N/A	90H138004
CONCRETE/CONCRETE BLOCK	1/4" X 1 3/4" FLAT HEAD MASONRY ANCHOR	3/16"	N/A	90H037004
WOOD STUD/GYPSUM WALL	#14 X 3" PHILLIPS FLAT HEAD WOOD SCREW	7/32"	N/A	90H536002
20 GA. STEEL STUD/GYPSUM WALL (OSHDP)	1/4-20 X 3" FLAT HEAD BOLT 1/4" TOGGLER WING (SEE NOTE 2)	1/2"	N/A	90H282002 90H062004



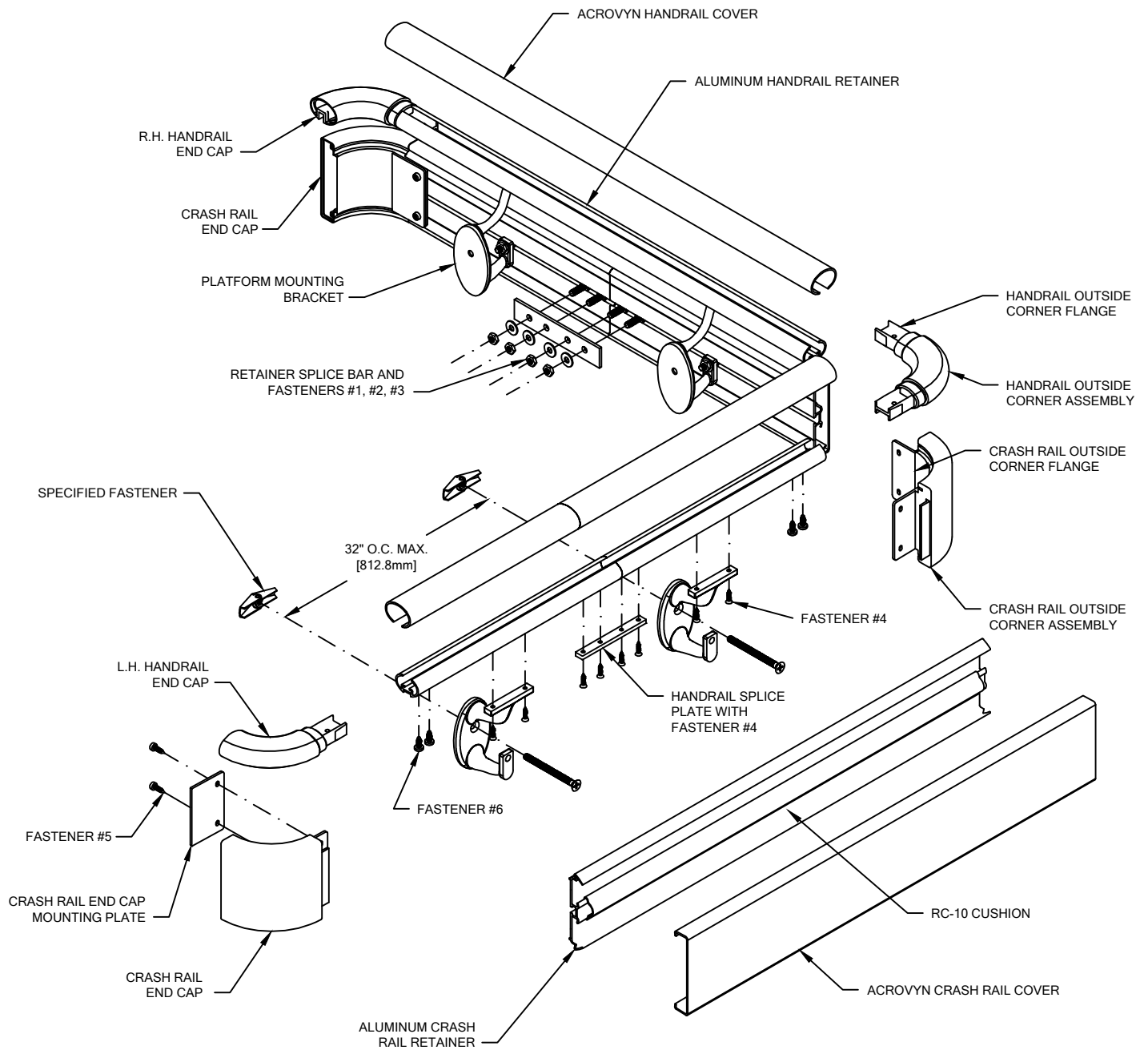
P-OAAN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

LAYOUT VIEW



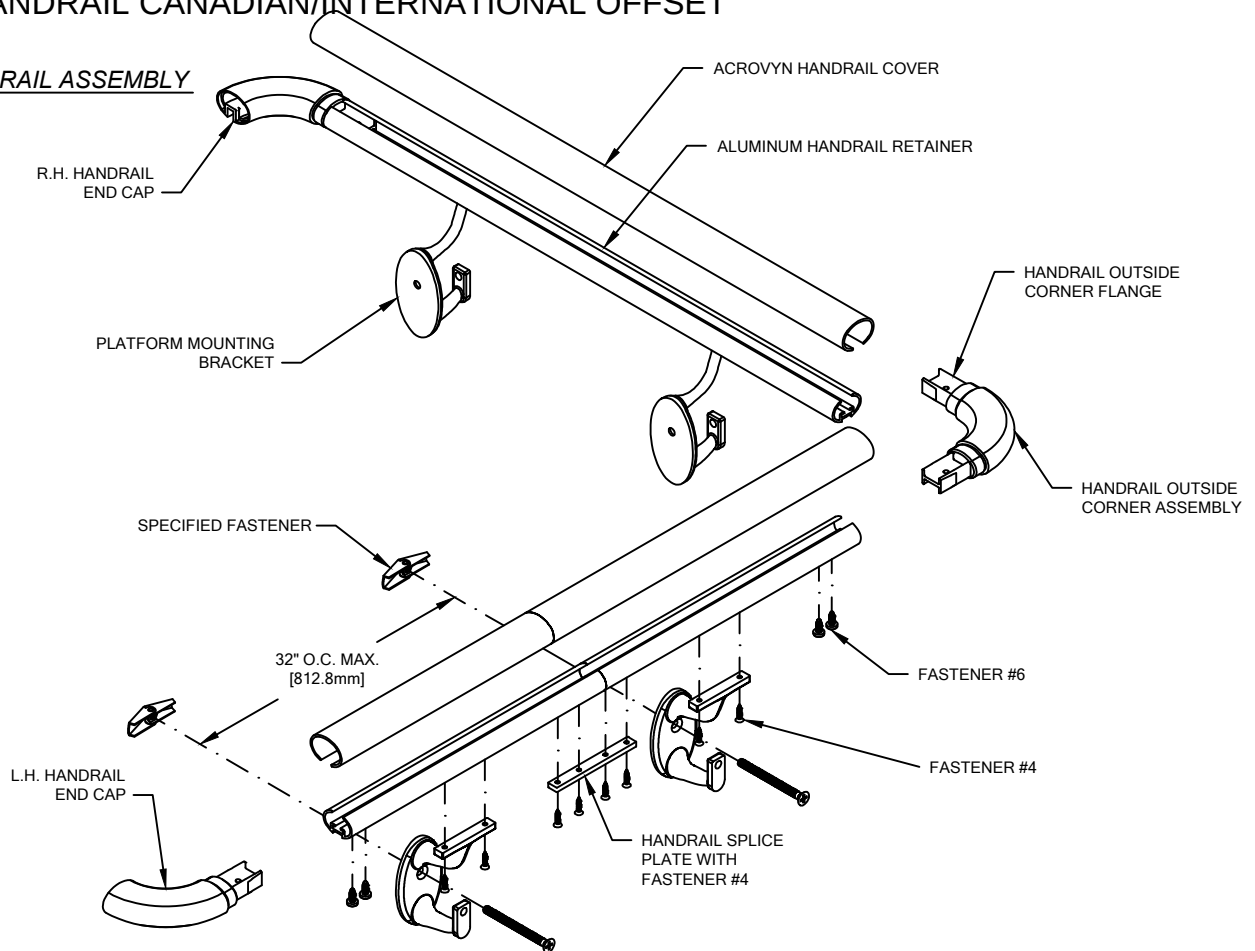
P-OAAN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

TYPICAL ASSEMBLY



P-OAAN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

TYPICAL HANDRAIL ASSEMBLY



1. USING "LOCAL CODE" REQUIREMENTS, ESTABLISH HANDRAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 3-3/8" [85.7mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE HOLE FOR THE MOUNTING BRACKET FASTENERS.

2. DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.

3. INSTALL MOUNTING BRACKETS USING APPROPRIATE FASTENERS. USE A LEVEL TO ENSURE THAT THE BRACKETS ARE LEVEL.

NOTE: SEE LAYOUT VIEW TO AID IN MOUNTING BRACKET LOCATION.

4. CUT THE CONTINUOUS ALUMINUM RETAINER TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW).

NOTE: IT IS RECOMMENDED THAT THE ACROVYN GUARD AND ALUMINUM RETAINER BE CUT WITH AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT.

5. ATTACH END CAPS AND OUTSIDE CORNERS

- INSERT THE END CAP INTO THE RETAINER.
- DRILL 1/8" DIAMETER PILOT HOLE THROUGH THE BOTTOM OF THE RETAINER AND END CAP, 7/8" [22.2mm] AND 1-9/16" [39.7mm] FROM THE END OF THE RETAINER.
- REMOVE END CAP AND DRILL 11/64" CLEARANCE HOLES FOR #10 X 3/4" PHILLIPS PANHEAD SHEET METAL SCREW.
- ATTACH END CAP TO RETAINER WITH THE ABOVE MENTIONED SCREWS, UP THROUGH THE BOTTOM OF THE RETAINER.

6. DRILL 1/16" PILOT HOLES INTO THE RETAINER FOR MOUNTING BRACKET ATTACHMENT. MOUNTING BRACKETS ARE TO BE LOCATED 3" [76.2mm] FROM EACH END OF THE RETAINER AND 32" [812.8mm] ON CENTER ALONG LENGTH, AS REQUIRED.

7. FASTEN THE ALUMINUM RETAINER TO THE WALL BRACKETS IN SUCCESSION BY INSERTING TWO #6 X 5/8" PHILLIPS FLAT HEAD SHEET METAL SCREWS THROUGH THE UNDERSIDE OF THE BRACKET INTO THE RETAINER. CAUTION: OVER-TORQUEING MAY CAUSE THE FASTENERS TO STRIP.

8. CUT THE ACROVYN COVER TO THE PROPER LENGTH. THE COVER LENGTH IS DETERMINED BY MEASURING THE DISTANCE BETWEEN THE INSTALLED END CAPS AND/OR OUTSIDE CORNER ASSEMBLIES.

NOTE: IT IS RECOMMENDED THAT THE ACROVYN COVER BE CUT SLIGHTLY LONGER (1/32" [0.8mm] UP TO 5'-0" [1.5m], 1/16" [1.6mm] OVER 5'-0" [1.5m]) THAN THE MEASURED DISTANCE. THIS ADDITIONAL LENGTH WILL PROVIDE FOR A TIGHTER GUARD-TO-END CAP FIT.

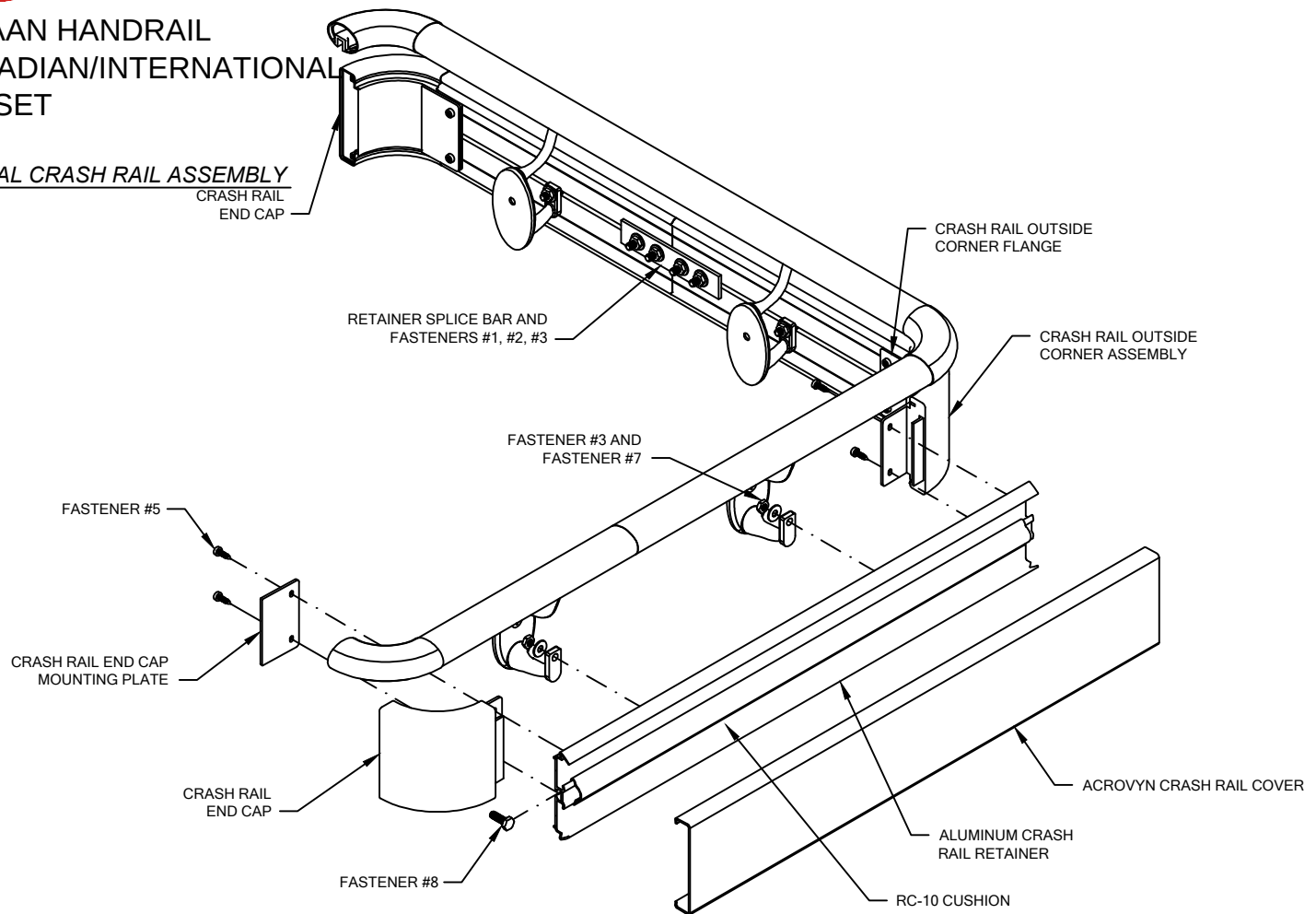
9. STARTING AT ONE END, SNAP THE ACROVYN COVER ONTO THE RETAINER ALONG THE LENGTH OF THE HANDRAIL.

NOTE: MANUFACTURER RECOMMENDS ALL PRINTED "PRODUCT IDENTIFICATION" ON THE REAR OF THE ACROVYN PROFILE SHALL BE ORIENTED IN THE SAME DIRECTION DURING INSTALLATION TO ENSURE PROPER ALIGNMENT AT SPLICE BUTT JOINTS.



**P-OAAN HANDRAIL
CANADIAN/INTERNATIONAL
OFFSET**

TYPICAL CRASH RAIL ASSEMBLY



10. CUT THE CONTINUOUS ALUMINUM CRASH RAIL RETAINER TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW).

NOTE: IT IS RECOMMENDED THAT THE ACROVYN GUARD AND ALUMINUM RETAINER BE CUT WITH AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT.

11. CUT RC-10 CUSHION TO LENGTH NOTING REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND INSTALL ONTO ALUMINUM RETAINER.

12. ATTACH CRASH RAIL END CAPS AND OUTSIDE CORNERS:

- SLIDE 1/4-20 X 3/4" HEX HEAD BOLTS IN RECEIVER SLOT OF THE CRASH RAIL RETAINER FOR ALL WALL BRACKETS.
- USE CRASH RAIL END CAP AS A TEMPLATE TO DRILL 1/16" PILOT HOLES IN RETAINER.
- ATTACH END CAP AND MOUNTING PLATE TO THE RETAINER USING #8 X 5/8" PHILLIPS PAN HEAD SHEET METAL SCREW. DO NOT USE END CAP MOUNTING PLATE AT OUTSIDE CORNERS.

NOTE: TO AID IN LOCATING THE END CAPS CORRECTLY, CUT A 4" [101.6mm] SECTION OF GUARD FROM SCRAP AND SNAP IT ON THE RETAINER. LOCATE THE CAP SO IT ALIGNS FLUSH WITH TOP AND BOTTOM OF THE GUARD.

12. ATTACH THE ALUMINUM CRASH RAIL RETAINER TO THE WALL BRACKETS BY ALIGNING THE HEX HEAD BOLT WITH THE MOUNTING BRACKETS AND INSERTING THE HEX HEAD BOLT INTO THE MOUNTING BRACKET HOLE. PLACE A 1/4" FLAT WASHER AND 1/4-20 HEX NUT ONTO THE HEX HEAD BOLT AND TIGHTEN AS REQUIRED.

13. CUT THE ACROVYN COVER TO THE PROPER LENGTH. THE COVER LENGTH IS DETERMINED BY MEASURING THE DISTANCE BETWEEN THE INSTALLED END CAPS AND/OR OUTSIDE CORNER ASSEMBLIES.

NOTE: IT IS RECOMMENDED THAT THE ACROVYN COVER BE CUT SLIGHTLY LONGER (1/32" [0.8mm] UP TO 5'-0" [1.5m], 1/16" [1.6mm] OVER 5'-0" [1.5m]) THAN THE MEASURED DISTANCE. THIS ADDITIONAL LENGTH WILL PROVIDE FOR A TIGHTER GUARD-TO-END CAP FIT.

14. STARTING AT ONE END, SNAP THE ACROVYN COVER ONTO THE RETAINER ALONG THE LENGTH OF THE CRASH RAIL.

NOTE: MANUFACTURER RECOMMENDS ALL PRINTED "PRODUCT IDENTIFICATION" ON THE REAR OF THE ACROVYN PROFILE SHALL BE ORIENTED IN THE SAME DIRECTION DURING INSTALLATION TO ENSURE PROPER ALIGNMENT AT SPLICE BUTT JOINTS.

9/19/11
CDN/DP

