



CITY AND COUNTY OF SAN FRANCISCO  
 San Francisco Municipal Transportation Agency  
 Request for Proposals  
 THE PROCUREMENT OF  
 30-Foot, 40-FOOT AND 60-FOOT LOW FLOOR  
 DIESEL HYBRID COACHES

Proposal Section	Title	Bid Submission Requirements
<b>3-B</b>	Internal Dimensions and Layout	<p>1) Supply plan in left and right elevations of proposed seating, stanchion and handrail layout. The seat spacing, aisles, front platform, and tie-down areas should be dimensioned. Supply aisle width between front and rear wheelhouses, hip to knee distance for all forward-facing seating, correct stepwell dimensions, location of modesty panels and location of driver's wrap-around barrier and driver's seat. Note locations of any floor slopes and the amount of slope in percent grade. It is strongly preferred that the plan view and left and right elevations are shown on an 11 x 17 inch drawing.</p> <p>2) Supply a dimensioned plan view of wheelchair tie down locations and the turning diagram of the ADA mobility aid device moving from the raised ramp through the front platform area to the area between the front wheelhouses.</p> <p>3) Provide a drawing of ramp showing width at the platform, length between the raised barriers, height of the barriers, slope of the ramp (kneeled), and total deployed distance from the side of the bus.</p> <p>4) Provide a drawing clearly showing the wheelchair maneuvering room in as much detail as shown in Attachment 11, Vol. 2. See also Section 3.7.5.1, Maneuvering Room of the Technical Specifications – Vol. 2.</p>

Please find attached our seating questionnaire describing the key features of the proposed seat. We are also including detailed drawings with regards to seat position and wheelchair maneuverability. New Flyer is proposing our patented wheelchair ramp with Improved accessibility, incorporating the lowest entrance step height of any available bus design today, a wider entrance door (33.8" clear opening between handles) and 1:7 slope.

## SALES INFORMATION BULLETIN

#526-001 | Model: XcelSior | Length: specific to MUNI Propulsions:All

# Passenger Seating

Please refer to the attached drawing for details regarding the proposed seat layout. In addition, New Flyer has included additional information regarding the seating features:

Seat Manufacturer & Model	American Seating Vision
Seating Capacity	32
Standee Capacity	39
Average Hip-to-Knee	31.8
Average Foot Room*	14"
Wheelchair Restraint System	Reliant 3-point system
Wheelchair Restraint Belts Model	Secura Swiv lock belts
Locking Mechanism on Flip-Up Seats	Up and Down
Seating Insert Material	Anti Graffiti Compliant
Seating Upholstery Fabric	Fiberglass Onserts
Seat Frame Material	Exposed stainless steel frames
Seat Back Panel Material	Stainless Steel
Seat Grab Rail Material	Stainless Steel
Arm Rest on Longitudinal Flip-Up Seats	Stainless Steel
Arm Rest on Standard Longitudinal Seats	Stainless Steel
Stop Request Type on Longitudinal Flip-up seats	Special MUNI Blue Stop Request

### Specials:

Trash deflector	Included at rear cross seat
Drain holes	Required
Anti-graffiti coating	Required
Docket 90 compliant	Not Required
Remote Release Belts	Required



**3. PASSENGER SEATING**

**3.1. Mounting Passenger Seats**

The vehicle is equipped with a combination of two, three and five-passenger transverse and longitudinal sets. The seats located in the wheelchair area are of a flip-

up and lock design. The center section of the five-passenger rear seat is designed to flip up to allow access to the engine and transmission compartments. All other seats are fixed and are supported by pedestals and the side wall seat rail. See "Fig. 17-2: Seating Layout" on page 7.

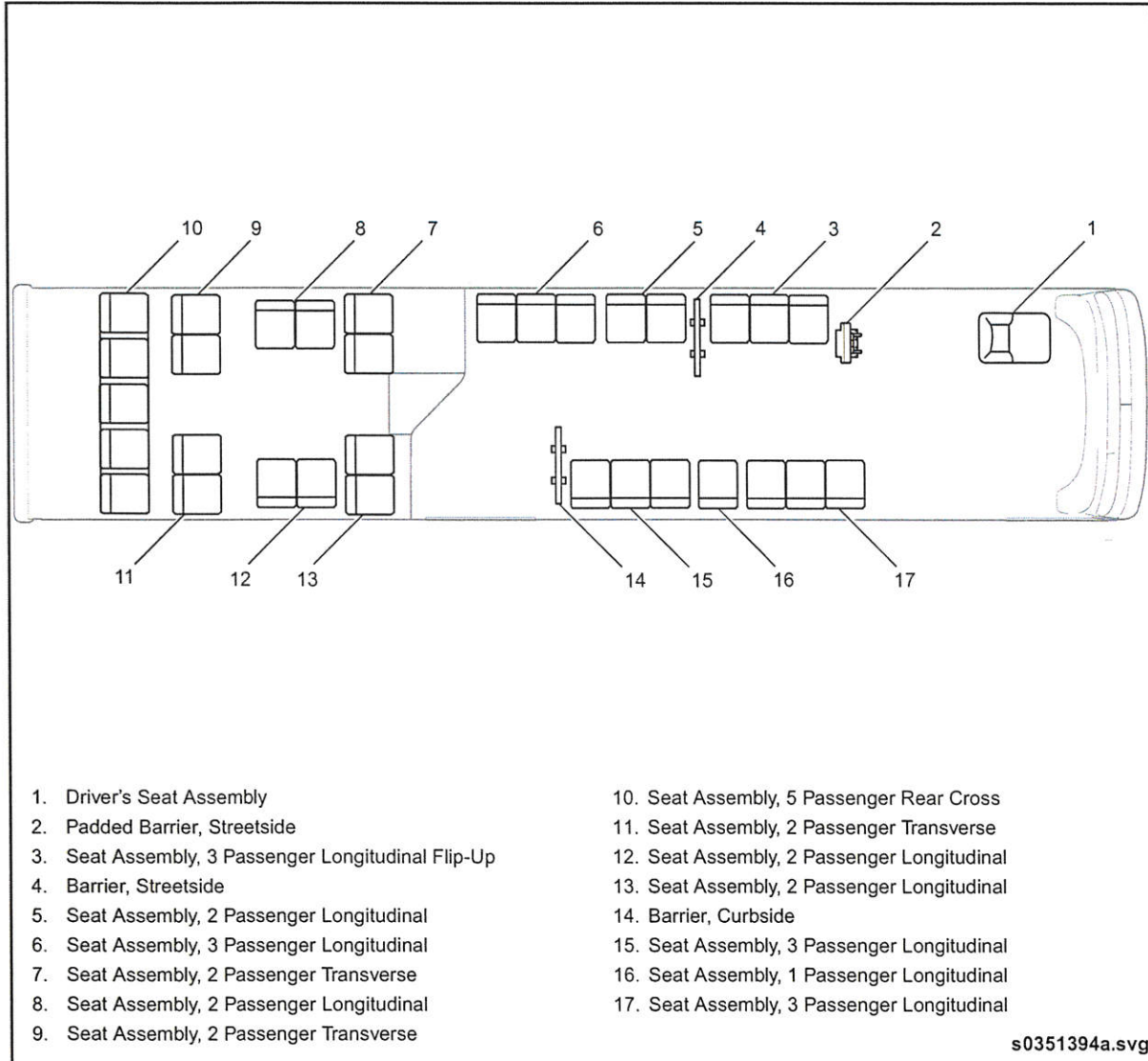
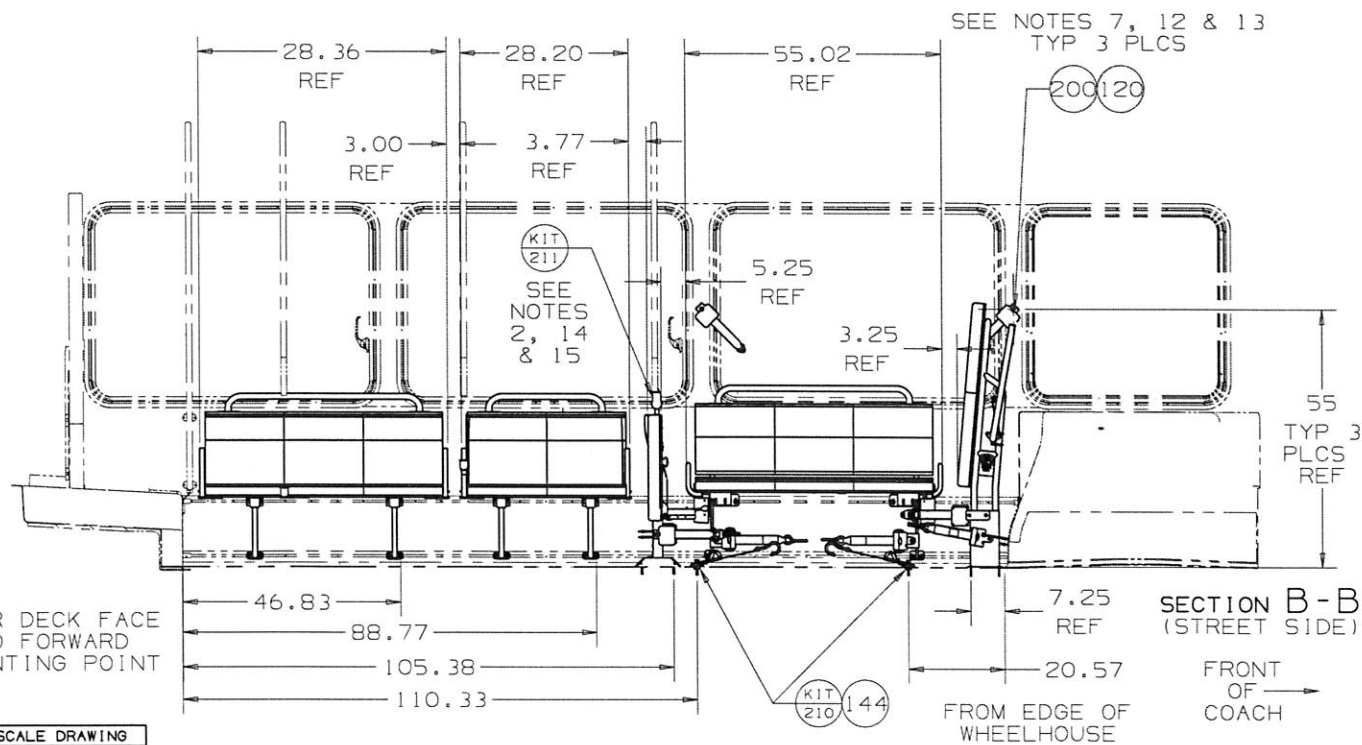
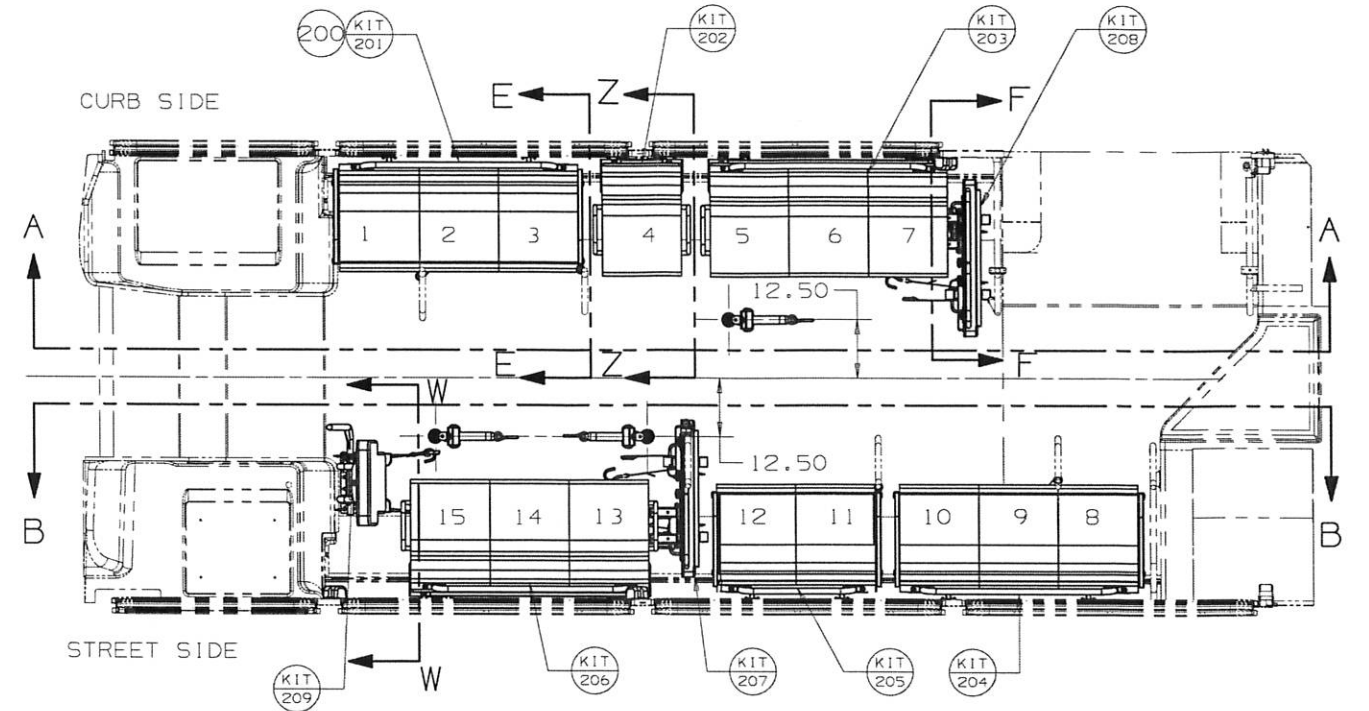
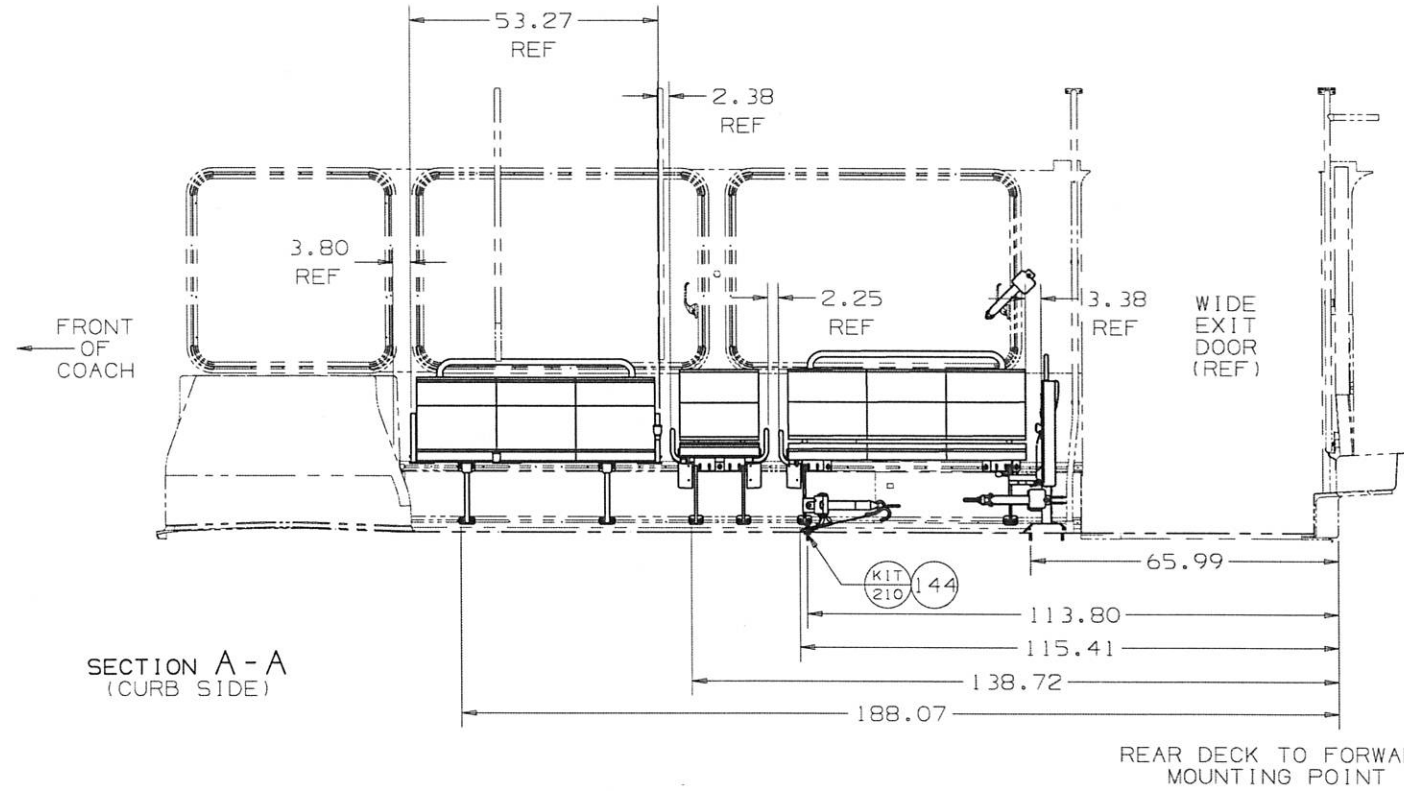


Fig. 17-2: Seating Layout

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NOTE: FOR INSTALLATION DRAWINGS PLEASE REFER TO ATTACHED MRP BOM SHEET FOR PARTS LISTING

DRAWING N°  
525277



DESIGN REF NOTES:

- AMESCO 6468 SEATS WITH CANTILEVER MOUNTING
- STAINLESS STEEL GRABRAILS
- W/C RESTRAINTS: DUAL FACING WHEELCHAIR ON STREET SIDE WITH W/C PADDED BARRIER WITH CALIPER & REMOTE RELEASE, FOLD DOWN ARM & BELTS, SLIDE N CLICK POCKETS & BARRIER WITH REMOTE RELEASE. FORWARD FACING WHEELCHAIR ON CURB SIDE WITH W/C BARRIER WITH CALIPER, REMOTE RELEASE & SLIDE N CLICK.
- Q'STRAIT ORT DELUXE J-HOOK BELTS
- PUSH BUTTON ON SEAT 6, 14 & 15
- FOR 40' XCELSIOR
- DIESEL, DIESEL ELECTRIC, CNG
- NON WARM WALL
- LAYOUT VALID WITHOUT FLOOR HEATERS
- WIDE EXIT DOOR

DO NOT SCALE DRAWING	
DIMENSIONS IN ( ) ARE IN m.m.	
THD ANGLE	
DRAWN BY YUN WEI	
DATE (DD-MMM-YY)	DESCRIPTION
27-JUN-13	RELEASE TO PRODUCTION

REV	DESCRIPTION	ECO
A	RELEASE TO PRODUCTION	ECN-022313

QTY	U/M	ITEM	PART NO.	DESCRIPTION	WEIGHT
1	EA	200	525278	KIT-SEATING L/D 6468	-
3	EA	144	10B05024	BOLT-HEX 5/16 UNC X 1.50	-
0.010	EA	120	8110440	LOCTITE-242	-
8	EA	89	419999	SCREW-TRILOB PHC 1/4X2	-
8	EA	88	50W04000	WASHER-FLAT 1/4 NOM	-
47	EA	79	356596	T-BOLT-SEAT MOUNTING	0.05 LBS
8	EA	36	20B06032	BOLT-HEX SST 3/8UNC 2.00	-
47	EA	32	8410536	NUT-CRN 3/8UNC GR5	0.03 LBS
102	EA	30	50W06000	WASHER FLAT SS 3/8 NOM	-

MATERIAL	UNSPEC'D TOLS.	DEC. IN.	TITLE
	.X	+.12	TMPLT-SEATING L/D 6468
	.XX	+.06	
	.XXX	+.03	
WEIGHT	HOLE DIA.	+.015	
	BEND RADII.	+.03	
	ANGLE TOL.	±1'	
TREATMENT	SIMILAR TO		
NONE	498337		

NEW FLYER		PART N°
SCALE 1:20		525277
D		SHEET 1 OF 4

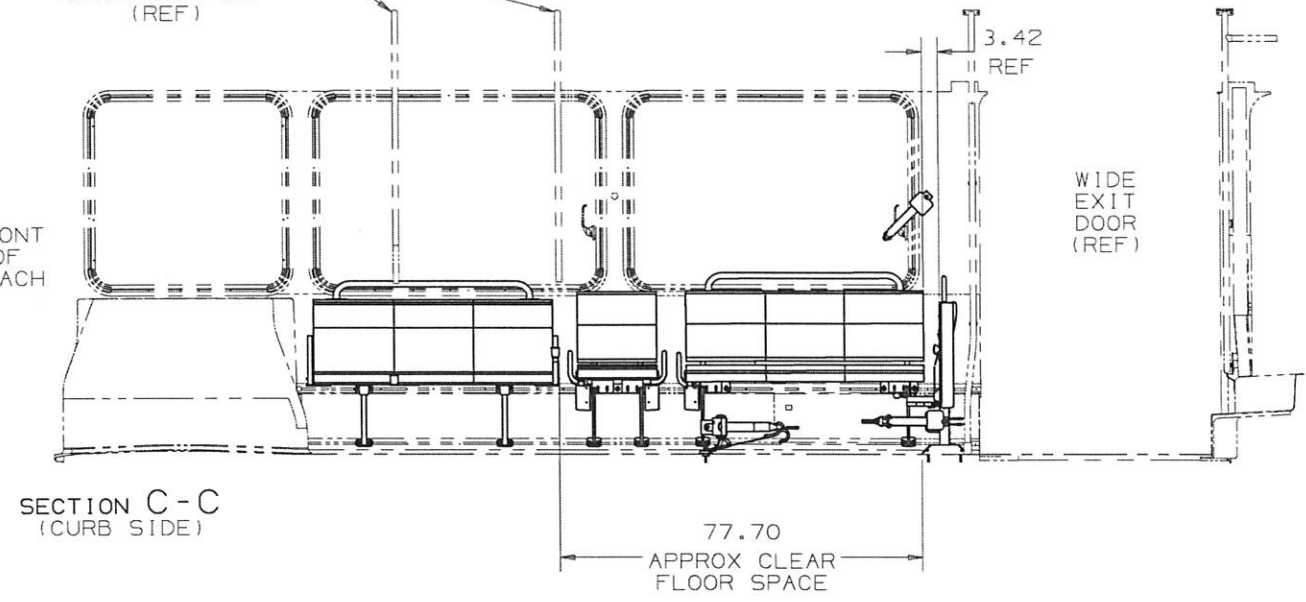
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DRAWING N°  
525277

SEAT STANCHION WITH WELD-ON STANCHION CUP (REF)

FRONT OF COACH



60 Ø W/C TURNING AREA (REF)

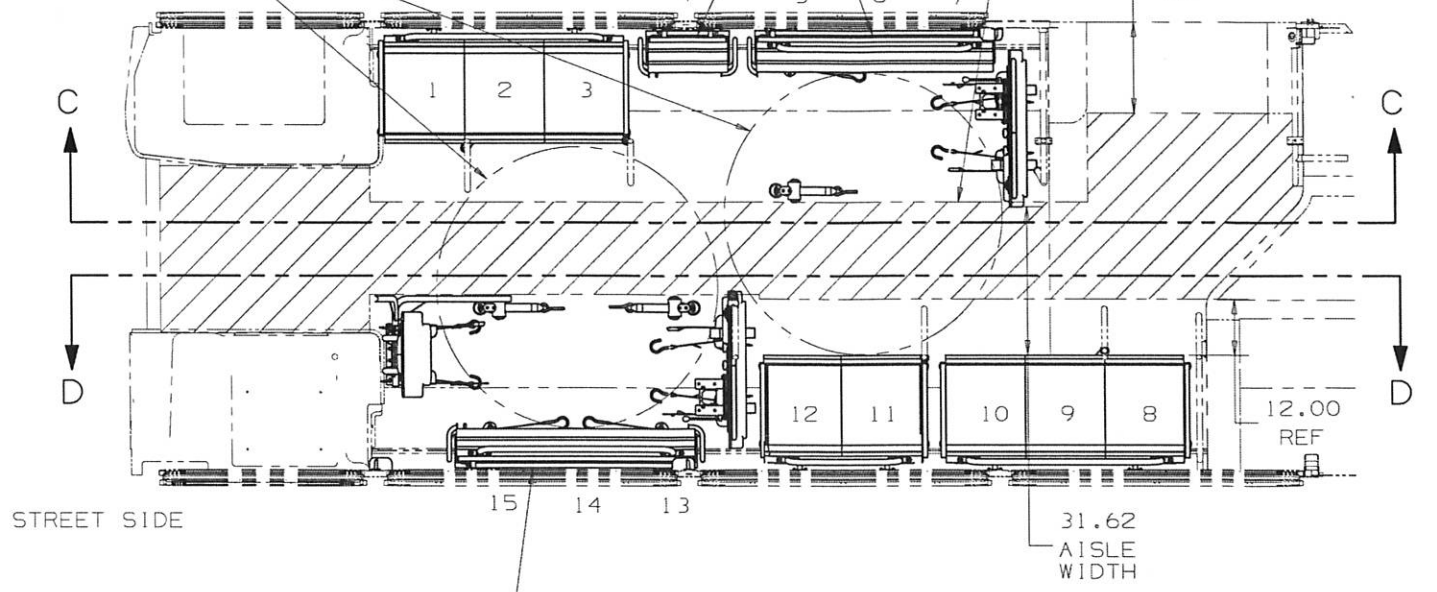
CURB SIDE

C

D

STREET SIDE

SEATS IN THE FLIPPED UP POSITION



SEAT STANCHION WITH WELD-ON STANCHION CUP (REF)

WHEELCHAIR BARRIER STANCHION WITH BOLT-ON STANCHION CUP (REF)

FRONT OF COACH

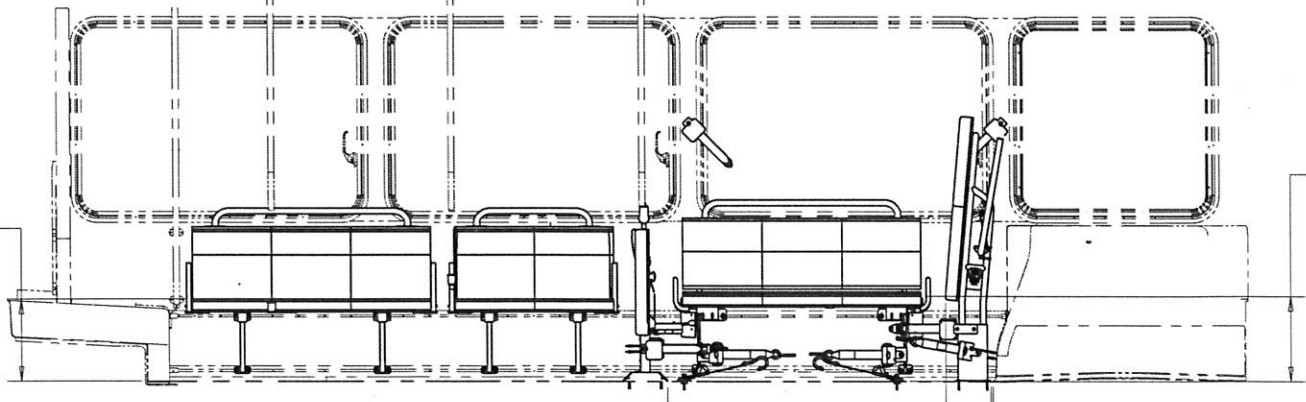
(17.48) SEAT HEIGHT, REF TYP 3 PCLS

(18.09) TYP 3 PCLS, REF SEAT HEIGHT

59.59 APPROX CLEAR FLOOR SPACE

.50

SECTION D-D (STREET SIDE)



NOTES:

1. ALL H/K DIMENSIONS HAVE ±.50 TOLERANCE, WHERE H/K = HIP TO KNEE

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DIMENSIONS IN ( ) ARE IN m.m.	
THD ANGLE	
DRAWN BY YUN WEI	
DATE (DD-MMM-YY) 27-JUN-13	REV

A	RELEASE TO PRODUCTION	ECN-022313
	DESCRIPTION	ECO

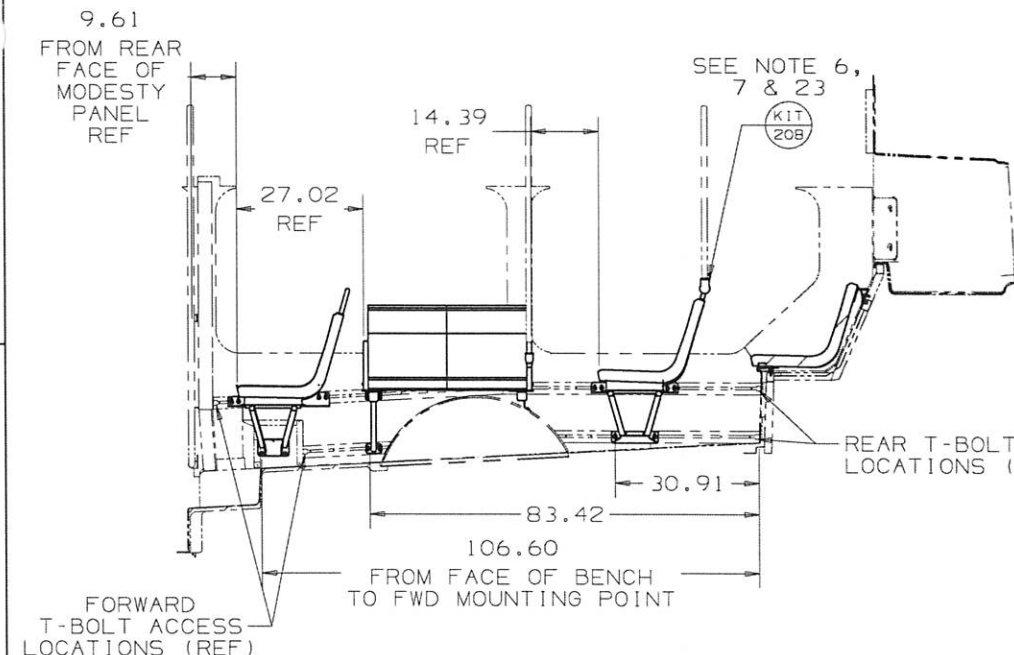
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WEIGHT	.X .XX .XXX	±.12 ±.06 ±.03	TMPLT-SEATING L/D 6468
TREATMENT	SIMILAR TO 498337	HOLE DIA. ±.03 BEND RADII ±.03 ANGLE TOL. ±1°	PART N° 525277
SCALE 1:20			D SHEET 2 OF 4

REPORT ALL ERRORS TO ENG. DEPT.

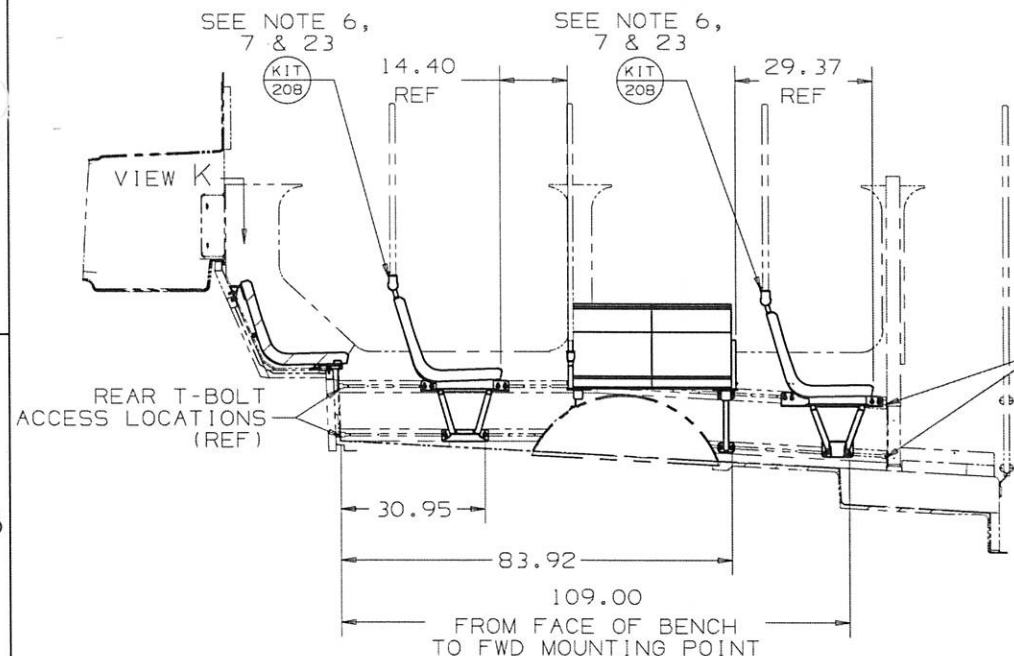
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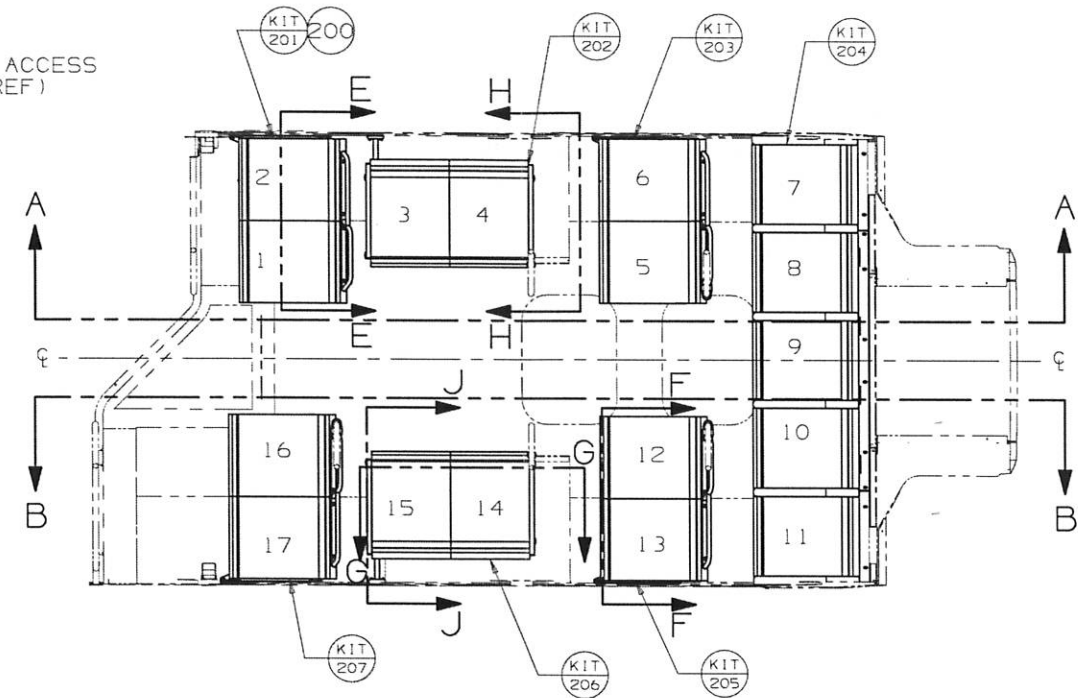
DRAWING N°  
525353



SECTION A-A  
(CURB SIDE)



SECTION B-B  
(STREET SIDE)



**DESIGN REFERENCE NOTES:**

- AMSECO 6468 SEATS WITH CANTILEVER MOUNTING EXCEPT 2P LONG WHEELHOUSE AND REAR CROSS SEATS
- STAINLESS STEEL GRABRAILS
- FOR 35', 40' & 60' XCELSIOR
- DIESEL, DIESEL ELECTRIC, CNG
- NON WARM WALL
- VALID WITH OR WITHOUT REAR WINDOW

- NOTES (WHERE APPLICABLE):
1. DRILL AND TAP FOR 3/8-16 HARDWARE.
  2. DRILL .228 DIA HOLE.
  3. DRILL .406 DIA HOLE THRU WHEEL ARCH.
  4. DRILL .358 DIA HOLE.
  5. DRILL .531 DIA HOLE. TRIM AWAY FLOORING SO THAT THE INSERT CAN SIT FLUSH WITH THE STRUCTURE OF THE REAR SHELF.
  6. APPLY 1 TO 2 DROPS OF LOCTITE (ITEM 120) TO THREADS OF HARDWARE. IF ANY HARDWARE IS ALREADY SUPPLIED WITH LOCTITE, NO LOCTITE WILL BE REQUIRED. IF ANY HARDWARE IS LOOSENED FOR ADJUSTMENTS, RE-APPLY NEW LOCTITE TO THREADS.
  7. TRIM STANCHION TO FIT. ENSURE THAT STANCHION IS NOT CUT TOO SHORT & THAT IT FITS TIGHTLY IN THE TEE CLAMPS.
  8. REFER TO SEAT VENDOR DRAWINGS FOR MORE DETAILS WITH REGARDS TO INSTALLING SEATS AND RESTRAINTS
  9. KIT 525354 IS A TEMPLATE. REFER TO ORACLE BOM FOR CONTRACT SPECIFICATIONS.
  10. SALES TO SEND SEAT SPECIFICATION DRAWING 265402-XXXX TO CUSTOMER, WHERE XXXX IS THE CONTRACT SR NUMBER.
  11. ALL H/K DIMENSIONS HAVE ±.50 TOLERANCE, WHERE H/K = HIP TO KNEE.
  12. TORQUE HARDWARE TO 30-35 FT-LBS (TORQUE FOR GRADE B BOLT-WET).
  13. SPLIT BALLOONS SUCH AS <sup>(KIT XXX)</sup> REFER TO ITEM XXX IN KIT ITEM 200. ALL SPLIT BALLOONS ARE REFERENCED ITEMS.
  14. TORQUE HARDWARE TO 5-7 FT-LBS AND APPLY 1 TO 2 DROPS OF LOCTITE (ITEM 120) TO THREADS OF VENDOR SUPPLIED BOLT WHERE APPLICABLE.
  15. TORQUE HARDWARE TO 22 FT-LBS.
  16. TORQUE HARDWARE TO 12 FT-LBS.
  17. DRILL .390 DIA HOLE THRU.
  18. SLIDE ALL SEAT RAIL T-BOLTS (ITEM 79) FOR BOTH STREET SIDE AND CURB SIDE SEATS INTO SEAT RAIL BEFORE INSTALLING ANY SEATS.
  20. DRILL 0.50 DIA THRU HOLE USING STANCHION CUP AS A TEMPLATE.

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YUN WEI  
DATE (DD-MMM-YY)  
28-JUN-13

REV	A	RELEASE TO PRODUCTION	ECN-022313
REV		DESCRIPTION	ECO

SEE NOTE 9

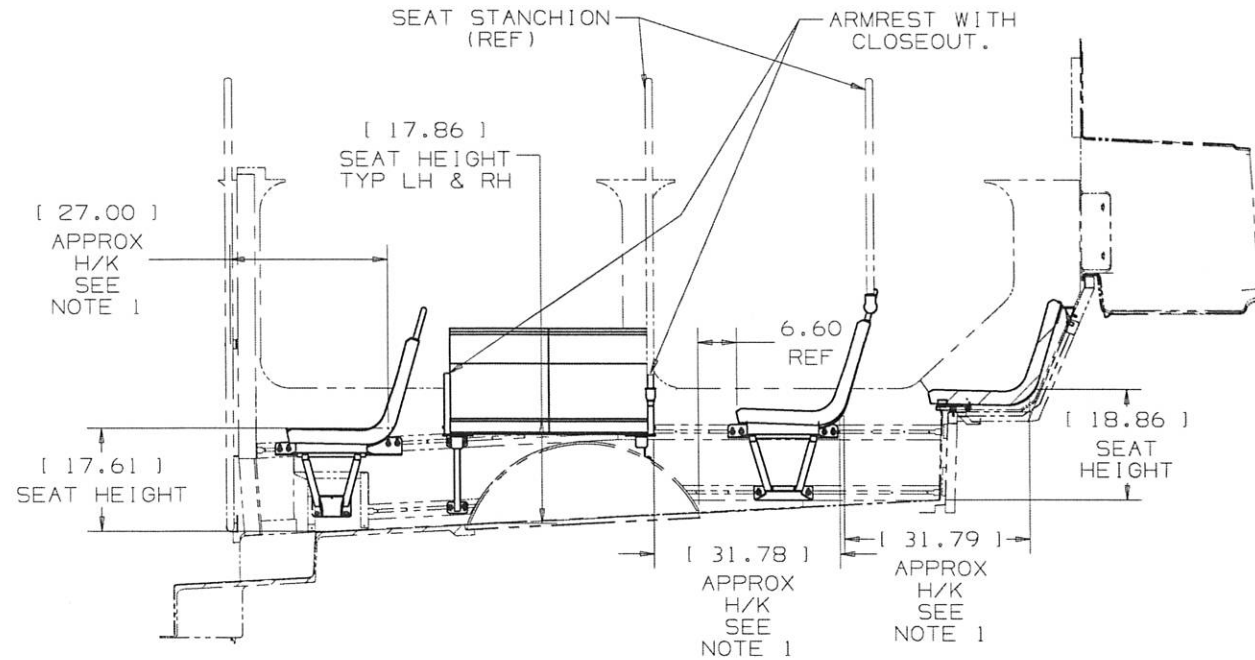
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10	ML	121	242702	ADHESIVE-SIKA 221 WHITE	-
0.01	EA	120	8110440	LOCTITE-242	-
30	EA	79	356596	T-BOLT-SEAT MOUNTING	0.05 LBS
6	EA	48	083651	INSERT 5/16-18 STEEL	-
2	EA	47	34500010	SCREW TPG NO. 10 X 5/8	-
2	EA	45	50W00000	WASHER FLAT SS 10	-
14	EA	44	34504016	SCREW-1/4-20 X 1.0	-
12	EA	43	50W04000	WASHER-FLAT 1/4 NOM	-
6	EA	41	14S05016	SCREW 5/16 X 1.00 SS	-
4	EA	40	34S05016	SCREW-5/16-18X1.0 S/TAP	-
8	EA	36	20B06020	BOLT SS 3/8 X 1.25 L	-
8	EA	35	50N06000	NUT SST 3/8 UNC	-
10	EA	33	50W05000	WASHER FLAT SS 5/16 NOM	-
30	EA	32	8410536	NUT-CRN 3/BUNC GR5	0.03 LBS
76	EA	30	50W06000	WASHER FLAT SS 3/8 NOM	-

MATERIAL N/A	UNSPEC'D TOLS. .X .XX HOLE DIA. BEND RADII. ANGLE TOL.	DEC. IN. ±.12 ±.06 ±.015 ±.03 ±1°	TITLE TMPLT-SEATING U/D 6468
WEIGHT N/A	SIMILAR TO		PART N° 525353
TREATMENT N/A	NEW FLYER		SCALE 1:20
			SHEET 1 OF 3

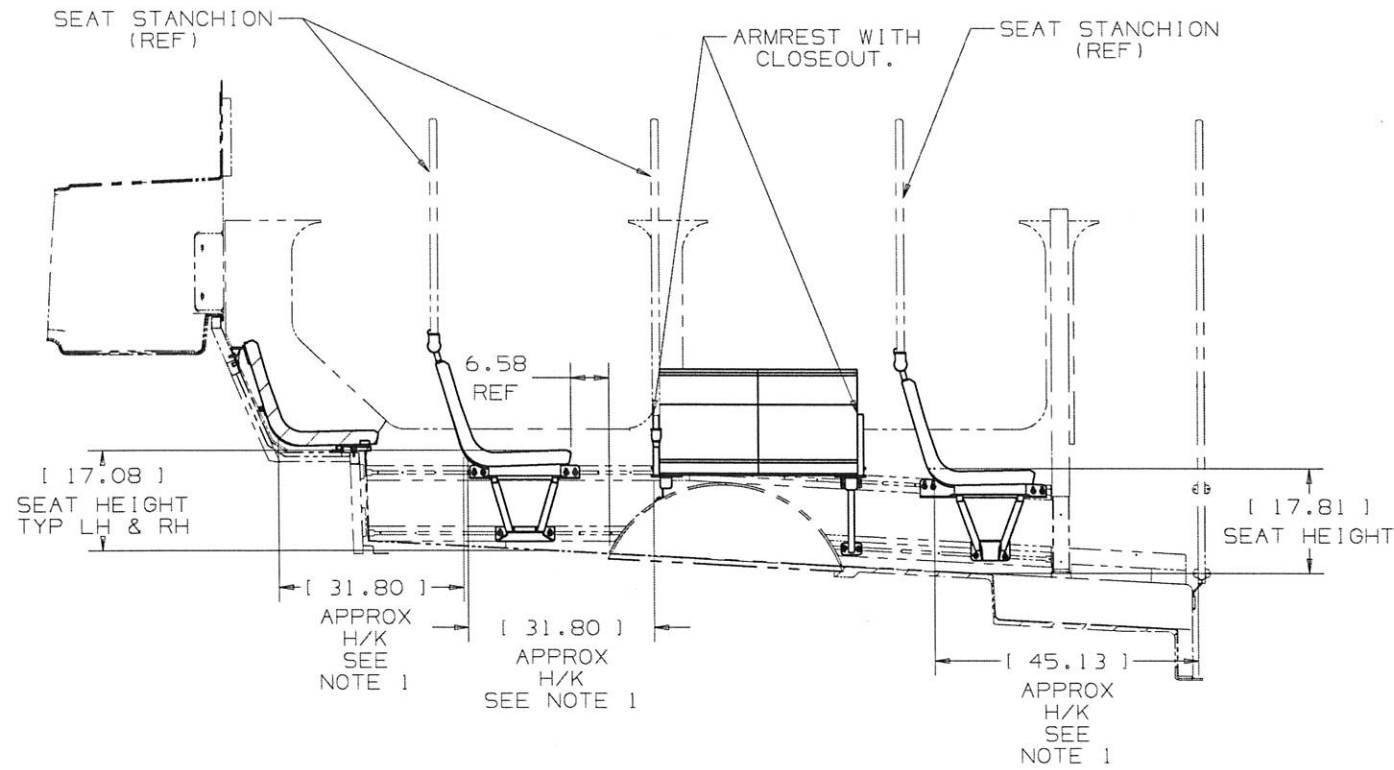
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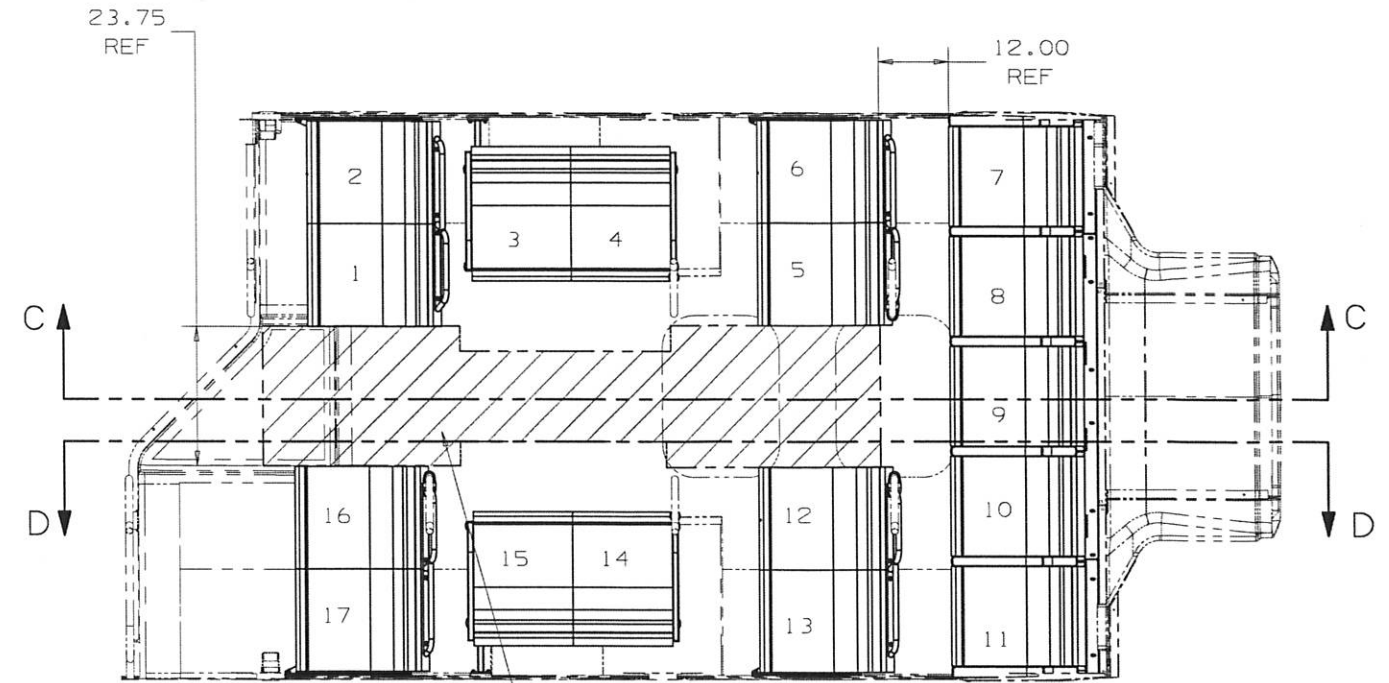
DRAWING N°  
525353



SECTION C-C  
(CURB SIDE)



SECTION D-D  
(STREET SIDE)



OPEN FLOOR AREA = 2235.27 IN<sup>2</sup>  
= 15.52 FT<sup>2</sup>

NOTES:

1) ALL H/K DIMENSIONS HAVE ±.50 TOLERANCE, WHERE H/K = HIP TO KNEE

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DATE (DD-MMM-YY) 28-JUN-13	REV

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REV	DESCRIPTION	ECO

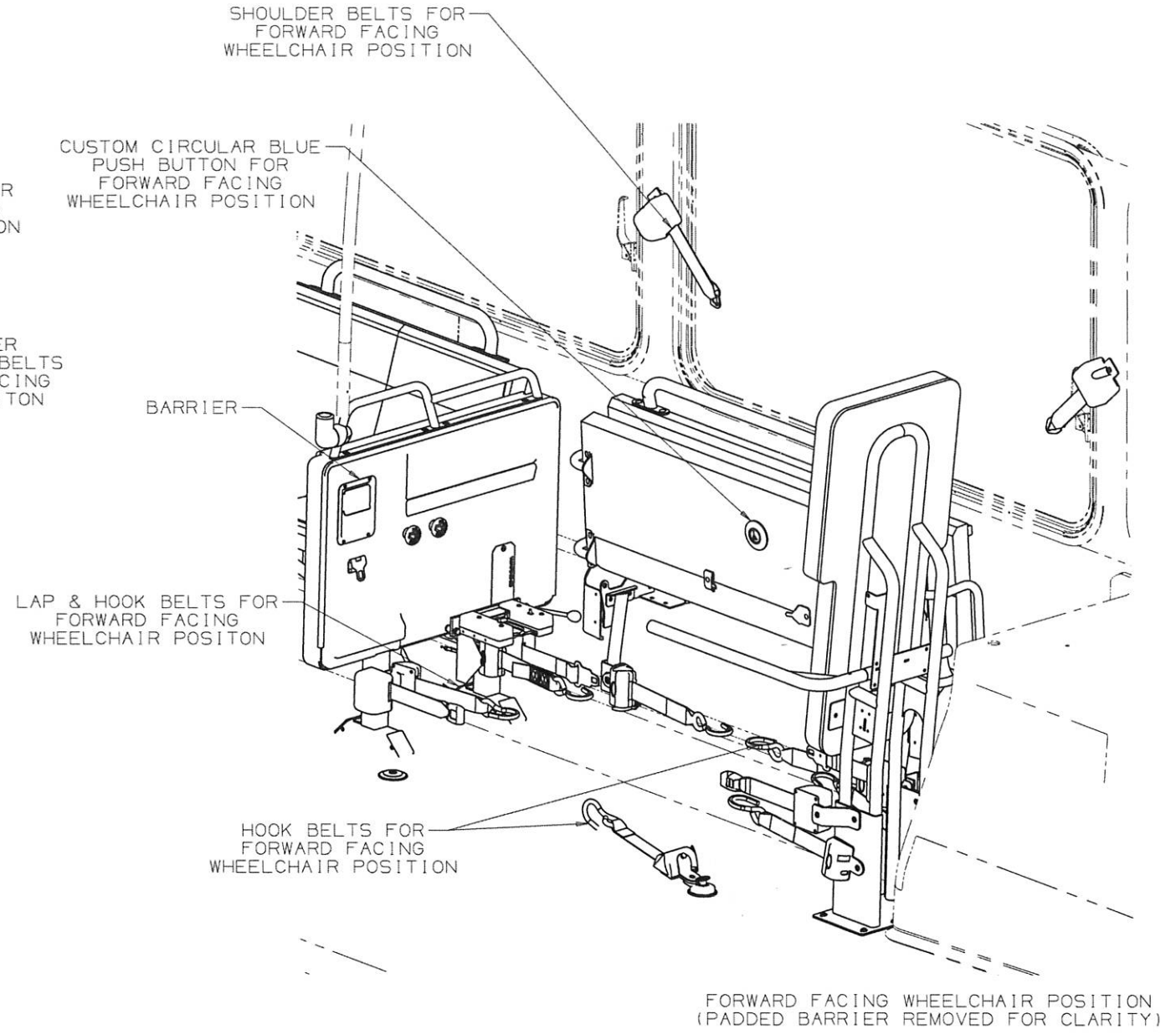
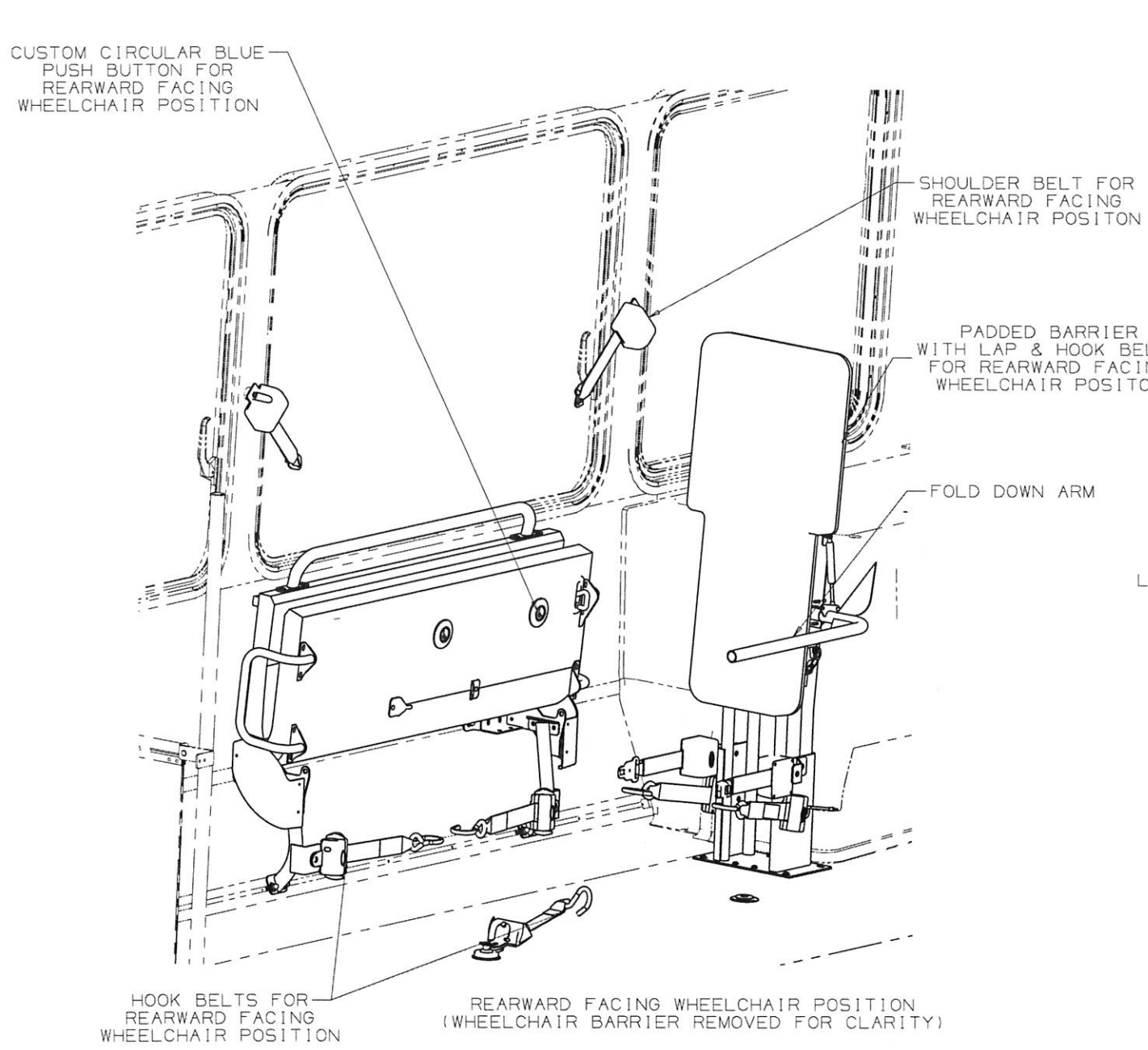
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WEIGHT N/A	HOLE DIA. ±.015	BEND RADII. ±.03	PART N° 525353
TREATMENT N/A	SIMILAR TO -	ANGLE TOL. ±1°	NEW FLYER SCALE 1:16
			D SHEET 2 OF 3


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525277



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THD ANGLE   
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YUN WEI  
DATE (DD-MMM-YY)  
27-JUN-13

A	RELEASE TO PRODUCTION	ECN-022313
REV	DESCRIPTION	ECO

MATERIAL	UNSPEC'D TOLS.	DEC. IN.	TITLE
WEIGHT	.X .XX .XXX	±.12 ±.06 ±.03	TMPLT-SEATING L/D 6468
TREATMENT	SIMILAR TO 498337	HOLE DIA. BEND RADII. ANGLE TOL.	 PART N° 525277
SCALE 1:10			D SHEET 4 OF 4

REPORT ALL ERRORS TO ENG. DEPT.





**NEW FLYER**



**XCELSIOR**  
BETTER BY DESIGN

## SALES INFORMATION BULLETIN

#580-001 | Model: XcelSior | Lengths: All | Propulsions: All

# Genuine New Flyer Wheelchair Ramp

## Product Features

New Flyer's patented wheelchair ramp design is a flip-out, aluminum, non-slip platform located at the entrance door of the bus. While this ramp is based on our reliable New Flyer ramp that has been in revenue service since 1993, it has been improved to now be a self-contained modular system.

The ramp system consists primarily of four components:

- Stainless steel ramp box and aluminum cover
- Hydraulic pump, reservoir and integrated manifold block
- Ramp mechanism assembly (operates entirely within stainless ramp box)
- Aluminum light-weight non-slip ramp platform

All four components operate to articulate the ramp from the stowed position in the floor to the curb or street level.

## Benefits

- Industry-leading 1:7 slope that significantly exceeds ADA regulations
- Designed with the manual operation feature to ensure that the bus will remain in revenue service during an electrical or hydraulic ramp failure

## Operations

The ramp is hydraulically operated. It is completely installed within the vehicle floor and structure and is not subjected to road damage. Brake and accelerator interlocks are provided through the opening of any door. A flashing LED light and audible signal at the entrance door serve as a warning to passengers that the ramp is operating. The ramp can also be manually deployed or raised by a pull strap. The wheelchair ramp is powered by its own self-contained hydraulic power source.



*Ramp deployed at ride height street level*



*Ramp deployed kneeled (1:7) street level*



**NEW FLYER**



**XCELSIOR**  
BETTER BY DESIGN

## SALES INFORMATION BULLETIN

### Operating Procedures

Operator's control is located on the lower right side of the driver's instrument panel. A guarded three-position switch performs the following functions:

#### 1. Deploy

This position turns the pump on and sends a flow of oil through the manifold block to the ramp mechanism assembly. The ramp then moves from the stowed position and starts through its arc until fully deployed.

#### 2. Float

This is the normal position of the switch and, in this position, the hydraulic pump is inoperative. The ramp will float to either the DEPLOY or STOW position. Manual operation is possible in the FLOAT position.

#### 3. Stow

This position turns the pump on and sends a flow of oil through the manifold block to the ramp mechanism assembly to move the wheelchair ramp into the stowed position (flush with the floor).

### Service / Repair

The self-contained, modular design of this ramp allows for quick removal and installation of the ramp via eight mounting bolts and one electrical connector. The harness removal can only be done at the front of the bus through the service panel (or defrost service panel). To remove the harness, two ty straps need to be cut off and then the two connectors need to be disconnected. The harness conduit retaining nut needs to be removed and each of the two connectors need to be pulled through the retaining nut separately. Two p-clips will need to be removed from under the bus structure to free the harness. This allows bench servicing if a ramp system requires repair.

The stainless steel box protects the inner components from the damaging effects of being exposed to the elements.

### Testing

Durability testing: This new design has been cycled 50,000 times which equates to a 12 year life span.

### Warranty

Genuine New Flyer wheelchair ramps have a warranty of one year or 50,000 miles (80,467 km).

### SPECIFICATIONS

Width	32.00 inches (81.28 cm)
Length	47.50 inches (120.65 cm)
Length Beyond Bus Body	44.73 inches (113.61 cm)
Supporting Load	660 lbs. (299.40 kg)
Degree of Slope kneeling position	8° degrees to grade
Degree of Slope kneeling position (to a 6 inch curb)	2° degrees to curb
Operation Switch (3-Pole Toggle)	1. "Deploy" 2. "Float" 3. "Stow"
Type	Hydraulic (electrically powered)
Cycle Times 1. Deploy 2. Stow 3. Total	10 seconds 10 seconds 20 seconds
System Fluid Capacity	1 quart (946.35 ml)
Hydraulic System	Independent Hydraulic Power pack w/ Integrated Manifold
Hydraulic Fluid	ATF
Operating Hydraulic Pressure	1800 psi
Hydraulic Cylinder	One (deploy & stow)
Hydraulic Cylinder Size	1.5" (38.1 mm) dia. Bore x 3.5" (88.9 mm) Stroke 0.75" (19.05 mm) dia. Rod Double acting welded construction 2500 psi (working pressure rated)
Weight of Complete Lift Assembly	130 lbs (58.97 kg)



H G F E D C B A

10 9 8 7 6 5 4 3 2

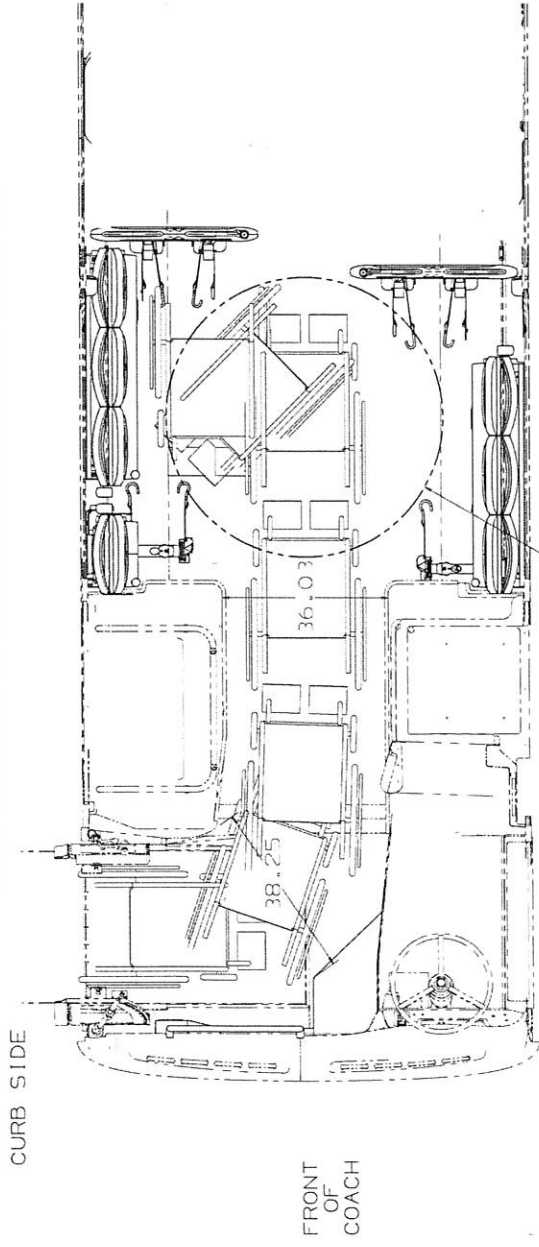
10 9 8 7 6 5 4 3 2

H G F E D C B A

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NOTE FOR INSTALLATION DRAWINGS PLEASE REFER TO ATTACHED W/P FOR PARTS LISTING

WHEELCHAIR MANEUVERABILITY FROM ENTRANCE TO CURB SIDE WHEELCHAIR POSITION

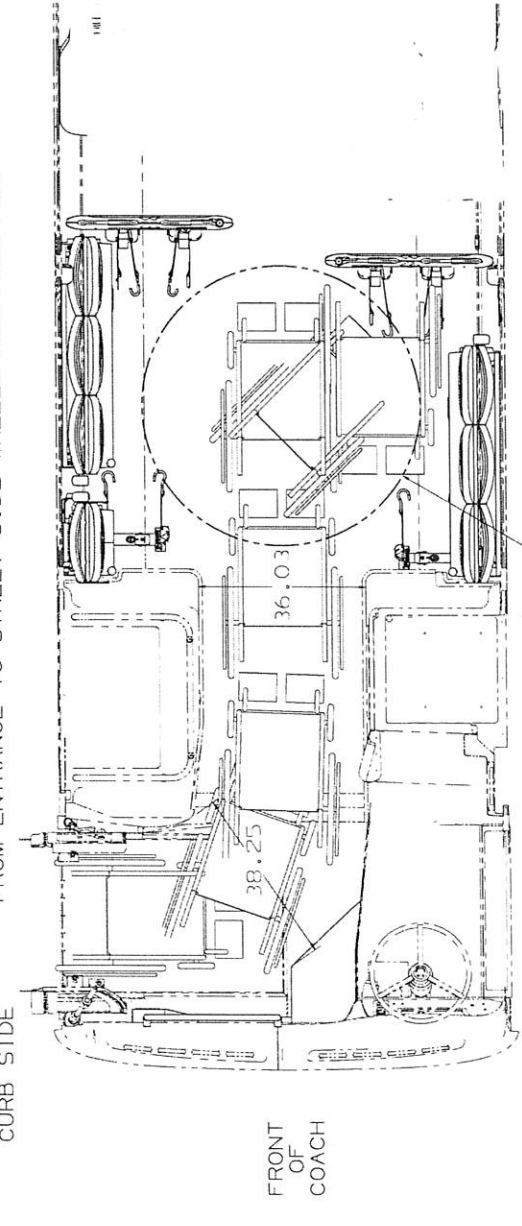


60.00  $\phi$   
W/C TURNING DIAMETER

FRONT OF COACH

STREET SIDE

WHEELCHAIR MANEUVERABILITY FROM ENTRANCE TO STREET SIDE WHEELCHAIR POSITION



60.00  $\phi$   
W/C TURNING DIAMETER

FRONT OF COACH

STREET SIDE

NOTE: LAYOUT BASED ON  
ING LAYOUT P/N 440123

MATERIAL	ALUMINUM	TITLE	BID - WHEELCHAIR MANEUVERABILITY
WEIGHT	10.00	SCALE	1:10
TREATMENT	ANODIZED	PART #	440123
DATE	02/28/11	SCALE	1:10
		SHEET 1 OF 1	

DATE	02/28/11	DESCRIPTION	9
APP'D		REV	
CHK'D		DATE	
DRWN	1.14	22 MAR 11	
THE ABOVE IS A COPY			
DATE	02/28/11		
BY			
FOR			
APPROVED			

H G F E D C B A