



901-2011 ADDENDUM 2

DESIGN-BUILD OF TRANSIT BUS PARKING AND SERVICING GARAGE

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE REQUEST FOR PROPOSAL

ISSUED: January 16, 2012
BY: Dave Krahn, P.Eng.
TELEPHONE NO. (204) 453-2301

THIS ADDENDUM SHALL BE INCORPORATED INTO THE REQUEST FOR PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Ar20070420

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Proposal may render your Proposal non-responsive.

Clarification of Addendum 2: Various purposes, including correcting heating and air conditioning requirements for each space, noting the addition of a value engineering component, and updating bus dimensions and building clearances for bus passage.

PART B – BIDDING PROCEDURES

- Add: B22.6 As of the date of this addendum, five (5) proponents have indicated they will be bidding.
- Add: B23.8 Note that the evaluation team includes personnel from the City of Winnipeg, Dillon Consulting Limited, and GPP Architecture.

PART D – SUPPLEMENTAL CONDITIONS

- Add: D2.5(n) Immediately following the acceptance of the successful proponent's bid, and thus their preliminary design work including major systems, structural concepts, and site works, the Contract Administrator will facilitate a value engineering review. This will include a technical committee comprised of the Contract Administrator's technical specialists and City departments (Transit, Public Works for external site and roadways, Water and Waste for site servicing, Planning, Property and Development for building management best practices). The Contractor will then present their design to the committee, including life cycle costing. The committee may propose alternatives to major systems including mechanical/electrical, external site works and landscaping, or minor features of the building structure. The alternatives will be evaluated by the Contract Administrator.

Page numbering may be changed as a result.

PART E – SPECIFICATIONS

Replace: E18.2 Refer to the suggested Space Function Relationship Diagram in Appendix E

Space Reference Number and Name	Approx. Square Feet
A-1.1(R1) Bus Service Bays (approximately 295 x 25)	7,375
A-2.1(R1) Main Garage (approximately 135 x 715)	96,525
A-2.2(R1) Bus Parking Assignment Kiosk	40
A-3.1(R1) Vehicle Inspection/Repair (approximately 280 x 20)	5,600
A-4.1(R1) Storage	2,700
A-5.1(R1) M&E Room	1,000
A-6.1(R1) Service Lunchroom	500
A-6.2(R1) Large Locker Room	300
A-6.3(R1) Small Locker Room	200
A-7.1(R1) Multi-use Space	1,500
A-7.2(R1) Large Change Room	500
A-7.3(R1) Small Change Room	300
A-8.1(R1) Dispatch Office/Drivers Waiting Area	2,000
E-1.1 Tank Farm (exterior space, 3,625 sf)	
Subtotal	118,540
Net to Gross Factor 15%	17,781
Total Estimate Interior Space	136,321

Replace: E18.2 (Replace the following Room Data Sheets).

A-1.1 with A-1.1(R1)

A-2.1 with A-2.1(R1)

A-2.2 with A-2.2(R1)

A-3.1 with A-3.1(R1)

A-4.1 with A-4.1(R1)

A-5.1 with A-5.1(R1)

A-6.1 with A-6.1(R1)

A-7.1 with A-7.1(R1)

A-7.2 with A-7.2(R1)

A-7.3 with A-7.3(R1)

A-8.1 with A-8.1(R1)

Delete: E21.26.2(c)

Delete: E21.26.2(f)

Add: E24.8.2

- (c) Within the "Environment" section of each Room Data Sheet, the temperature noted is the heating setpoint temperature.

Revise: E24.9.3 to read:

E24.9.3 Room Data sheets have been prepared as comprehensive data and included in an alternate area of this Specification.

- (a) The Room Data Sheets are to be read in conjunction with the information within this Mechanical Specification Section. Requirements of both the Room Data Sheets and these Mechanical Specifications shall be met.
- (b) Refer to the following Room Data Sheets attached with this RFP:
- (i) A-1.1 Bus Service Bays
 - Make-up Air and Exhaust Air for General Fume and Odor Control
 - Make-up Air and Exhaust Air for Diesel Refuelling Stations
 - Make-up Air and Exhaust Air for Bus Wash Humidity Removal
 - Make-up Air and Exhaust Air for Bus Drying System
 - Drying system for buses exiting washrack.
 - Make-up Air and Exhaust Air for Bus Vacuum Cleaning System
 - Ross and White Cyclone Vacuum Bus Interior Cleaning System ICS-VA-30-23000 (including air filtration and recycling)
 - (ii) A-2.1 Main Garage
 - Make-up Air and Exhaust Air for General Fume and Odor Control
 - (iii) A-2.2 Bus Parking Assignment Kiosk
 - (iv) A-3.1 Vehicle Inspection/Repair
 - Make-up Air and Exhaust Air for General Fume and Odor Control
 - Make-up Air and Exhaust Air for Diesel Tailpipe Exhaust System and Dust/Fume Extraction
 - Tailpipe connections are at high level.
 - Existing System is Nederman.
 - Allow for flexible arm supports
 - Provide adjustable welding hood inlet with flexible arm support, for Dust/Fume Extraction
 - (v) A-4.1 Storage
 - Make-up Air and Exhaust Air for General Fume and Odor Control
 - (vi) A-5.1 M&E Room
 - Provide free-cooling for electrical rooms
 - Provide combustion air for rooms containing fuel-fired appliances.
 - (vii) A-6.1 Service Lunchroom
 - (viii) A-6.2 Large Locker Room
 - ~~Energy Recovering Ventilator~~
 - (ix) A-6.3 Small Locker Room
 - ~~Energy Recovering Ventilator~~
 - (x) A-7.1 Multi-use Space
 - Ventilated Stereo Shelf
 - (xi) A-7.2 Large Change Room
 - ~~Energy Recovering Ventilator~~

- (xii) A-7.3 Small Change Room
 - ~~Energy Recovering Ventilator~~
- (xiii) A-8.1 Dispatch Office/Drivers Waiting Area
- (xiv) E-1.1 Tank Farm

Revise: E25.5.15(a)(ii) to read:

- (ii) ~~LED and~~ LCD Enunciators (LED to show grouped detection per floor/fire compartment, vertical (stair/elevator) shaft etc.)

Revise: E25.5.21(d) to read:

- (d) Provide wall mounted combination switches (occupancy sensors c/w dimmer switches) to control lights in ~~the following areas~~ intermittent use public spaces (locker rooms, change rooms, etc.)

Revise: E25.5.26(b) to read:

- (b) Provide **cabling and infrastructure for** full WiFi coverage throughout entire facility to allow *Infodev* radio system access for buses. **No active components (routers, etc.) required.**

APPENDICES

Replace: Within Appendix F – Typical Bus Dimensions, replace the drawing of the Model D40LFR with attached drawing of the Model D40LFR (2010). Note this bus is slightly longer.

QUESTIONS AND RESPONSES FROM JANUARY 9, 2012 BIDDERS CONFERENCE

#	Question	Response
1	Can we get a copy of the insurance noted in D16?	The insurance clause is written specifically to provide as much information as possible for the Contractor's insurers. However, should further information be required, please e-mail your request to the Contract Administrator, Dave Krahn (dkrahn@dillon.ca) and cc Coleen Groening (cgroening@winnipeg.ca)
2	Is there cooling required in the garage.	No – see cooling clarification in Addendum 2.
3	What about cooling in other parts of the building? The RFP indicates air conditioning is required in the garage and nowhere else.	This is incorrect. See cooling clarification in Addendum 2.
4	Is the closing date still firm?	Yes

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A-1.1(R1)	Bus Service Bays	1	7,375 s.f.	1	BRT side/ A-2.1 & E-1.1
Activity Description Fuelling, washing / drying, cleaning, fluid fill, fare revenue collection & advert replacement		Acoustic Treatment Sound Iso. <u>Yes</u> DBA <u>N/A</u> Sound Ins. <u>Yes</u> Rev. Time <u>Reduced.</u>		Occupancy / Loading Standards Up to (5) five staff at various locations	
Access Locked exterior, unrestricted interior man doors, secured garage doors (2)		Security Building perimeter security as per existing bus garage		Flexibility Single purpose space	
Structure Height <u>15</u> clr passage ft <u>20</u> clr u/s str ft Clear Span <u>minimal interior post or pillars</u> Floor Loading <u>industrial</u> psf Spec. Req. Structure must provide unobstructed single central bus lane		Environment Heating <u>Temp. 18c</u> View <u>Out</u> Ext. <u>Yes</u> Humidity <u>Std</u> View <u>Out</u> Int. <u>Yes</u> View <u>In</u> <u>Yes</u> Spec. Req: Garage environment must have fume and odor control as well as humidity and temperature control		Equipment Floor anchored vault, Computer / printer, supervisors Plexiglas protected low partition desk enclosure, Fluid fill station, Cyclone Cleaner, Bus Washer and Bus Dryer, fluids storage tanks in M&E room (see mechanical), 2 <u>sets of</u> single bus garage doors c/w automatic door actuators (see specs. & existing garage for complete list of requirements)	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>Yes</u> PA <u>Yes</u> CCTV <u>Yes</u> Wireless <u>Yes</u> Other for heavy draw equipment as specified		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other Task lighting at counter space as well as general lighting that will provide lighting between busses w/o causing canyon shadows		Room Finishes Floor: sealed concrete Walls: bottom 4 feet to be of robust construction, capable of resisting and redirecting a low speed bus impact Ceiling: exposed	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>Floor Drain System c/w separator system</u> Exhaust <u>Diesel fume evacuation</u> Air <u>Std</u> Other 6 compr. air drops, 6 hose bibs, drinking fountain, Emerg. Shwr/Eye/Face washer, hand wash sink, Infra-red heaters, rainwater harvest. <u>Mechanical cooling not required. Free cooling may be considered, using fresh outside air or ground source cooling.</u>		Comments Space divided into three sections, each of which must accommodate two busses in a single row: 1) fuel/fluids/revenue/advert. 2) cyclone cleaner, bus washer & dryer. 3) fluids storage All bidders will be responsible to attend existing bus garage to provide same type, quantity and quality of infrastructure, equipment, fitments, fixtures and furnishings as per existing bus garage unless otherwise specified. Fare collection safe to match existing. Heat traced slab at exit and 20 feet beyond exit c/w catch basin for melt water. Fluids storage must be in separate M&E room along outside wall within this space which must have outside access and acoustic separation.			

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A-2.1(R1)	Main Garage	1	96,525 s.f.	1	Center of complex adj to all spaces
Activity Description Storage of busses		Acoustic Treatment Sound Iso. <u>N/R</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>reduced</u>		Occupancy / Loading Standards Up to (5) five staff at various location and a max. of 35 drivers	
Access Locked exterior, unrestricted interior man doors, secured garage doors		Security Building perimeter security as per existing bus garage		Flexibility Single purpose space	
Structure Height <u>15</u> <u>clr passage ft 20</u> <u>cl#</u> <u>w/s str #</u> Clear Span <u>minimal interior post or pillars</u> Floor Loading <u>industrial</u> psf Spec. Req. One single central row of columns in direction of bus travel acceptable.		Environment Heating <u>Temp. 18c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>Yes</u> View In <u>Yes</u> Spec. Req: Garage environment must have fume and odor control as well as humidity and temperature control		Equipment Numbered single width bus garage doors c/w automatic door actuators (i.e. non-contact such as ultrasonic). All doors to permit forklift access.	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>Yes</u> Wireless <u>Yes</u> Other for heavy draw equipment as required		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> - <u>clerestory</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other General lighting that will provide lighting between busses w/o causing canyon shadows		Room Finishes Floor: sealed concrete Walls: bottom 4 feet to be of robust construction, capable of resisting and redirecting a low speed bus impact Ceiling: exposed	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>Floor Drain c/w Separator system</u> Exhaust <u>Diesel fuel evacuation</u> Air <u>Std</u> Other Providing winter heat curtains <u>and summer A/C</u> . Provide hose bibs and Compressed Air Outlets. <u>Mechanical cooling not required. Free cooling may be considered, using fresh outside air or ground source cooling.</u>		Comments Capacity to store 135 standard length busses or equivalent combination articulated/std. bus. Current optimized configuration use to illustrate footprint: 9 rows of 15 busses each w 5 foot wide cross-aisle every third bus, 10 foot clearance <u>from</u> both entry and exit doors to closest bus, 5 foot wide aisle full length <u>on sides of garage and between each row of busses.</u> 3 foot clearance <u>between front and rear of busses in each row (excepting cross-aisles as above).</u> Three sided concrete-built sand storage area at exit door location (see existing main base garage). Design must permit that functioning bus can manoeuver around bus stalled at any doorway.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-2.2(R1)	Bus Parking Assignment Kiosk	1	5 x 8 = 40 s.f.	1	BRT entry drive and apron
Activity Description Provide space for one staff to direct buses to appropriate garage door		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 1 staff per shift x 3 shifts	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>n/a</u> View In <u>Yes</u> Spec. Req:		Equipment One build-in counter	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>Yes</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sheet vinyl Walls: sheet drywall (painted) Ceiling: exposed	
Mechanical Services Hot W. <u>No</u> Cold W. <u>No</u> Drain <u>No</u> Exhaust <u>Std</u> Air <u>Std</u> Other Mechanical cooling not required.		Comments Small inexpensive relocatable kiosk built w/o foundation, directly onto concrete apron. Must have openable windows that allow occupant to open and call out garage door numbers to drivers of passing buses approaching from two directions.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-3.1(R1)	Vehicle Inspection / Repair	1	5,600 s.f.	1	LRC side/ A-2.1
Activity Description Limited maintenance & offline repair, secure cleaning, application of vinyl wrap advert.		Acoustic Treatment <u>Sound Iso.</u> <u>Yes</u> <u>DBA</u> <u>N/A</u> <u>Sound Ins.</u> <u>Yes</u> <u>Rev. Time</u> <u>Reduced</u>		Occupancy / Loading Standards Up to (3) three staff at various locations	
Access Locked exterior, unrestricted interior man doors, secured garage door (1)		Security Building perimeter security as per existing bus garage		Flexibility Single purpose space	
Structure <u>Height</u> <u>18</u> <u>clr passage ft</u> <u>20</u> <u>clr u/s str ft</u> <u>Clear Span</u> <u>minimal interior post or pillars</u> <u>Floor Loading</u> <u>industrial</u> <u>psf</u> <u>Spec. Req.</u> Structure must provide unobstructed single central bus lane		Environment <u>Heating</u> <u>Temp.</u> <u>18c</u> <u>View Out Ext.</u> <u>Yes</u> <u>Humidity</u> <u>Std</u> <u>View Out Int.</u> <u>Yes</u> <u>View In</u> <u>Yes</u> <u>Spec. Req:</u> Garage environment must have fume and odor control as well as humidity and temperature control		Equipment (see specs. & existing garage for complete list of requirements). Doors to permit forklift access.	
Electrical Services <u>Power</u> <u>Yes</u> <u>TV</u> <u>No</u> <u>Comp</u> <u>Yes</u> <u>AV</u> <u>No</u> <u>Tel</u> <u>Yes</u> <u>PA</u> <u>Yes</u> <u>CCTV</u> <u>No</u> <u>Wireless</u> <u>Yes</u> <u>Other</u> for heavy draw equipment as specified. 3 welding plugs		Illumination <u>Ft. Candles</u> <u>workshop</u> <u>Daylight</u> <u>Yes</u> <u>- clerestory</u> <u>Flour.</u> <u>Yes</u> <u>Quartz</u> <u>No</u> <u>Incand.</u> <u>No</u> <u>Special</u> <u>No</u> <u>Other</u> Task lighting at counter space as well as general lighting that will provide lighting between busses w/o causing canyon shadows		Room Finishes Floor: sealed concrete Walls: bottom 4 feet to be of robust construction, capable of resisting and redirecting a low speed bus impact Ceiling: exposed	
Mechanical Services <u>Hot W.</u> <u>Yes</u> <u>Cold W.</u> <u>Yes</u> <u>Drain</u> <u>Floor Drain System</u> <u>c/w separator system</u> <u>Exhaust</u> <u>Diesel fume evacuation</u> <u>Air</u> <u>Std</u> <u>Other</u> Providing winter heat curtains <u>and summer A/C</u> . High mounted tailpipe exhaust system on rail (Neiderman), handwash sink <u>Mechanical cooling not required. Free cooling may be considered, using fresh outside air or ground source cooling.</u>		Mechanical Services (cont'd): Local fume extraction unit, 4 Hose Bibs 4 compressed air drops, drinking fountain, Emerg. Shwr/eye/face washer, Bulks fluids, waste oil and fluids dispensing reel type system Comments Space could be 20 feet wide to accommodate a sing row of busses with access on both sides. 6 compressed air drops @ 40' apart. Outdoor drive-in.			

A-4.1(R1)
ROOM DATA SHEET
Preliminary Programming

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-4.1(R1)	Storage	1	2,700 s.f.	1	LRC side/ A-2.1
Activity Description Storage of garage related items		Acoustic Treatment Sound Iso. <u>No</u> DBA <u>N/A</u> Sound Ins. <u>No</u> Rev. Time <u>No</u>		Occupancy / Loading Standards Unoccupied	
Access From interior		Security Locked		Flexibility Single purpose space	
Structure Height <u>20</u> clr u/s str ft Clear Span <u>N/R</u> Floor Loading <u>industrial</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>No</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Fume and Odor control as well as Temp control		Equipment Double Doors for forklift access. Compressor to serve bldg..	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other		Illumination Ft. Candles <u>Std</u> Daylight <u>No</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sealed concrete Walls: bottom 4 feet to be of robust construction, capable of resisting and redirecting a low speed vehicle impact Ceiling: exposed	
Mechanical Services Hot W. <u>No</u> Cold W. <u>Yes</u> , washdown hose & spigot Drain Floor Drain System c/w seperator system Exhaust <u>Std</u> Air <u>Std</u> Other 6 Compressed air drops & 6 hose bibs Mechanical cooling not required. Free cooling may be considered, using fresh outside air or ground source cooling.		Comments Access from inside only.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-5.1(R1)	M&E Room	1 (as req'd)	1,000 s.f.	1	LRC side/ A-2.1
Activity Description Location for Mechanical & Electrical equipment		Acoustic Treatment Sound Iso. <u>No</u> DBA <u>N/A</u> Sound Ins. <u>Yes</u> Rev. Time <u>No</u>		Occupancy / Loading Standards Unoccupied	
Access Locked exterior door set		Security Locked		Flexibility Single purpose space	
Structure Height <u>20</u> clr u/s str ft Clear Span <u>Yes</u> Floor Loading <u>industrial</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>No</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Temperature Control		Equipment Double Doors for forklift access. Mechanical and Electrical equipment and compressors as required by individual system design. HWT, cable trays, etc.	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>Yes</u> Wireless <u>Yes</u> Other		Illumination Ft. Candles <u>Std</u> Daylight <u>No</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sealed concrete Walls: bottom 4 feet to be of robust construction, capable of resisting and redirecting a low speed vehicle impact Ceiling: exposed	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>Floor Drain system c/w separator system</u> Exhaust <u>Std</u> Air <u>Std</u> Other 4 Compr. air drops, hose bibs HVAC req'd for Emerg. Generator, free cooling for M&E rooms, Combustion air for fuel fired appliances.		Comments Location for City's Fibre optic, Metasys & Pegasus systems. Location for following systems: - Compressed air system(s) - Domestic Hot Water System(s) - Water Service Entry/Water Meter - Fire Sprinkler tree(s) - Indoor Bulk Fluids Storage - Possible Air Handling Units/Fans Other secondary IT or M&E rooms or closets as req'd by design			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-6.1(R1)	Service Lunchroom	1	500 s.f.	1	LRC side/A-2.1, 6.2 ,6.3
Activity Description Provide space for garage staff to take lunch & work breaks		Acoustic Treatment Sound Iso. <u>N/R</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 5 staff per shift x 3 shifts & shift overlap – total 8 staff seating (2 table of 4)	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>Limited size</u> Spec. Req: Temperature Control		Equipment Lower and upper kitchen style cabinetry. Full size fridge, sink, microwave	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>Yes</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other For appliances		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other Task lighting at counter space		Room Finishes Floor: sheet vinyl Walls: sheet drywall (painted) Ceiling: acoustic tile	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>Kitchen drain</u> Exhaust <u>Std</u> Air <u>Std</u> Other Water & drain for vending machines and countertop coffee machine Energy Recovering Ventilator Mechanical cooling required. Cooling Temp. 25c.		Comments Space should have direct access to exterior and have exterior eating area. Vending Machine Area			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-6.2(R1)	Large Locker Room	1	300 s.f.	1	LRC side / A-6.1
Activity Description Provide space for garage staff to change into work clothes		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 5 staff per shift x 3 shifts	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>No</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Temperature & Humidity Control		Equipment 15 Full Height 16 inch wide lockers, one shower, water closets, urinals and sinks as per code	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other Electric in-floor heat		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sheet vinyl (heated) Walls: sheet drywall (painted) Ceiling: acoustic tile	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain for fixtures Exhaust <u>Std</u> Air <u>Std</u> Other Drinking fountain, Energy Recovering Ventilator Mechanical cooling is not required if Energy Recovery Ventilators are used to temper incoming air. Free cooling could be considered. Cooling Temp. 25c.		Comments Natural Clerestory lighting. Space could have direct access to Service Lunch Room. If Multi Use Space is eliminated from project, washroom functions of this space to remain to serve Dispatch Office requirements. Lockers and shower facilities only to be removed.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-6.3(R1)	Small Locker Room	1	200 s.f.	1	LRC side / A-6.1
Activity Description Provide space for garage staff to change into work clothes		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 1 staff per shift x 3 shifts	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Temperature & Humidity Control		Equipment 3 Full Height 16 inch wide lockers, one shower stall, water closets and sinks as per code	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other Electric in-floor heating		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sheet vinyl Walls: sheet drywall (painted) Ceiling: acoustic tile	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain for fixtures Exhaust <u>Std</u> Air <u>Std</u> Other Drinking fountain, Energy Recovering Ventilator Mechanical cooling is not required if Energy Recovery Ventilators are used to temper incoming air. Free cooling could be considered. Cooling Temp. 25c.		Comments Natural Clerestory lighting. Space could have direct access to Service Lunch Room. Benches in front of locker as required. If Multi Use Space is eliminated from project, washroom functions of this space to remain to serve Dispatch Office requirements. Lockers and shower facilities only to be removed.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-7.1(R1)	Multi-use Space	1	1,500 s.f.	1	LRC side/A-2.1, 7.2, 7.3
Activity Description Provide space for all transit staff to exercise and attend fitness classes		Acoustic Treatment Sound Iso. <u>High</u> DBA <u>N/A</u> Sound Ins. <u>High</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 10 individuals using fitness equipment or 30 individuals taking fitness classes	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>10</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>Yes</u> Spec. Req: Temperature Control		Equipment Cushioned aerobic sports flooring, mirrors on two walls, vending machine for juices.	
Electrical Services Power <u>Yes</u> TV <u>Yes</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>Yes</u> PA <u>Yes</u> CCTV <u>Yes</u> Wireless <u>Yes</u> Other 4 duplex outlets along front window c/w coaxial (tv) cabling		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sports floor (above) Walls: sheet drywall (painted) Ceiling: acoustic tile	
Mechanical Services Hot W. <u>No</u> Cold W. <u>Yes</u> Drain <u>Fountain only</u> Exhaust <u>High air exchange</u> Air <u>Std</u> Other Drinking Fountain w ater bottle spigot, ventilated stereo shelf Mechanical cooling required. Cooling Temp. 25c.		Comments Bottom of windows at 4' above ff. Vertical blinds on windows. Space should have direct access to exterior. Recessed, vented and lockable stereo recess. 4 recessed ceiling mounted speakers wired back to stereo recess. Shelf for pre-moistened equipment wipes.			

A-7.2(R1)
ROOM DATA SHEET
Preliminary Programming

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-7.2(R1)	Large Change Room	1	500 s.f.	1	LRC side / A-7.1
Activity Description Provide space for transit staff to change and shower		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 40 staff	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Temperature & Humidity Control		Equipment 40 Half Height 16 inch wide lockers, 10 showers, water closets, urinals and sinks as per code	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other Electric in-floor heat		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sheet vinyl (heated) Walls: sheet drywall Ceiling: sheet drywall	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>for shower</u> Exhaust <u>Std</u> Air <u>Std</u> Other Drinking Fountain, , Energy Recovering Ventilator Mechanical cooling is not required if Energy Recovery Ventilators are used to temper incoming air. Free cooling could be considered. Cooling Temp. 25c.		Comments Natural Clerestory lighting. Space could have direct access to Multi-use Space. Benches in front of lockers as required.			

Space Ref No.	Space Name	No. of Units	Approx.Net Area	Net Total	Location / Adjac
A-7.3(R1)	Small Change Room	1	300 s.f.	1	LRC side / A-7.1
Activity Description Provide space for staff to change and shower		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 20 staff	
Access Unrestricted		Security		Flexibility Single purpose space	
Structure Height <u>8</u> ft or m. Clear Span <u>N/A</u> Floor Loading <u>100</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>No</u> View In <u>No</u> Spec. Req: Temperature & Humidity control		Equipment 20 Half Height 16 inch wide lockers, 5 showers, water closets, urinals and sinks as per code	
Electrical Services Power <u>Yes</u> TV <u>No</u> Comp <u>No</u> AV <u>No</u> Tel <u>No</u> PA <u>Yes</u> CCTV <u>No</u> Wireless <u>Yes</u> Other Electric in-floor heat		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other		Room Finishes Floor: sheet vinyl (heated) Walls: drywall Ceiling: drywall	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain for fixtures Exhaust <u>Std</u> Air <u>Std</u> Other Drinking fountain, Energy Recovering Ventilator Mechanical cooling is not required if Energy Recovery Ventilators are used to temper incoming air. Free cooling could be considered. Cooling Temp. 25c.		Comments Natural Clerestory lighting. Space could have direct access to Multi-use Space			

Space Ref No.	Space Name	No. of Units	Approx. Net Area	Net Total	Location / Adjac
A-8.1(R1)	Dispatch Office / Drivers Waiting Area	1	2,000 s.f.	1	LRC side / A-2.1
Activity Description Dispatch office space (to assign drivers their routes) & area for drivers awaiting start of shift		Acoustic Treatment Sound Iso. <u>Std</u> DBA <u>N/A</u> Sound Ins. <u>Std</u> Rev. Time <u>N/A</u>		Occupancy / Loading Standards Up to 4 office staff & up to 40 driver waiting to depart or relaxing after a shift	
Access Unrestricted		Security N/A		Flexibility Single purpose space	
Structure Height <u>10 ft</u> or m. Clear Span <u>N/A</u> Floor Loading <u>std office</u> psf Spec. Req.		Environment Heating Temp. <u>20c</u> View Out Ext. <u>Yes</u> Humidity <u>Std</u> View Out Int. <u>Yes</u> View In <u>Yes</u> Spec. Req: Temperature Control		Equipment Lounge - Lower and upper kitchen style cabinetry. 2 Full size fridge, sink, 2 microwave, coffee maker, 2 televisions, 2 water fountains. Office – bulletin space and corkboard (to match existing)	
Electrical Services Power <u>Yes</u> TV <u>Yes</u> Comp <u>Yes</u> AV <u>No</u> Tel <u>Yes</u> PA <u>Yes</u> CCTV <u>Yes (office)</u> Wireless <u>Yes</u> Other For appliances. 3 data connections in office.		Illumination Ft. Candles <u>Std</u> Daylight <u>Yes</u> Flour. <u>Yes</u> Quartz <u>No</u> Incand. <u>No</u> Special <u>No</u> Other Task lighting at counter space		Room Finishes Lounge & dispatch area floor: sheet vinyl Office, relaxation lounge & private office floor: carpet Walls: drywall Ceiling: acoustic tile	
Mechanical Services Hot W. <u>Yes</u> Cold W. <u>Yes</u> Drain <u>Kitchen drain</u> Exhaust <u>Std</u> Air <u>Std</u> Other Water & drain for Vending Machine and countertop coffee machine, 2 drinking fountains Mechanical cooling required. Cooling Temp. 25c.		Comments This area is to have four cells. A 3 person office(approx. 350 sf) component with 15' long millwork counter, lost and found locker and 135 pigeon-hole slot cabinet for driver assignments (replicate similar millwork at existing installation), a relaxation lounge 250 sf (adjacent to main staff lounge but acoustically isolated) and a private office (100sf. which can be located off corridor) and staff lounge (1300sf) located close to lockers so staff can use these for day use. Staff lounge to have areas for table seating, 3 online computer stations, area for 4 vending machines (c/w power) and games area (for foosball, etc.). Visually screened outdoor smoking area 25' from bldg. and NOT along path others must use to access bldg.			