

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

6"  
1'  
6"  
2'  
6"  
2'  
4'  
4'  
8'  
4'  
16'

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GENERAL NOTES:

1. ACCEPTABLE MATERIAL UNLOADING AREA WITHIN 30.5M (100FT) OF HOISTWAY WITH "ROLLABLE" ACCESS (PLANKED OR PAVED) OR UNINTERRUPTED USE OF A CRANE OR FORKLIFT AND OPERATOR AT NO COST TO ELEVATOR CONTRACTOR. DRY AND ENCLOSED STORAGE AREA OF ADEQUATE SIZE FOR ELEVATOR MATERIALS NEAR HOISTWAY.
  2. ELEVATOR CONTRACTOR MAY REQUEST THE USE OF A CRANE TO PLACE THE MACHINE, CONTROLLER, AND MACHINE SUPPORTS (WHERE APPLICABLE) INTO THE MACHINE/CONTROL ROOM OR HOISTWAY OVERHEAD PRIOR TO ENCLOSING THESE AREAS. COORDINATE WITH ELEVATOR FIELD SUPERVISOR.
  3. FURNISH ADEQUATE ON-SITE WASTE CONTAINERS FOR THE PROPER DISPOSAL OF ELEVATOR PACKAGING MATERIAL.
- HOISTWAY/PIT NOTES:
1. CLEAR, PLUMB, HOISTWAY WITH VARIATIONS NOT EXCEEDING +/- 25MM (+/- 1") WITHIN THE FIRST 30.5M (100FT). THIS MAY INCREASE 0.8MM (1/32") FOR EACH ADDITIONAL 3.05M (10FT) UP TO A MAXIMUM OF +/- 50MM (+/- 2").
  2. PIT FLOOR TO BE DRY, LEVEL, FREE OF BUMPS AND DEBRIS.
  3. HOISTWAY ENCLOSURE TO BE FIRE RATED PER NATIONAL CODE REQUIREMENTS AND APPLICABLE BUILDING CODES.
  4. ALL PROJECTIONS, RECESSES OR SETBACKS OVER 100MM (4"), EXCEPT ON SIDE USED FOR LOADING/UNLOADING SHALL BE PROTECTED BY BEVEL GUARDS WITH AN ANGLE NOT LESS THAN 75 DEGREES FROM HORIZONTAL.
  5. WHERE HOISTWAY PENETRATES MORE THAN 3 STORIES PROVIDE SMOKE/HOT GAS VENTING WITH A FREE AREA NOT LESS THAN 3.5% OF TOTAL HOISTWAY AREA OR 3 SF FOR EACH ELEVATOR (WHICHEVER IS GREATER). THE TOTAL REQUIRED VENT AREA SHALL BE EQUIPPED WITH DAMPERS THAT REMAIN POWERED CLOSED UNTIL ACTIVATED OPEN BY THE FIRE ALARM SYSTEM PANEL. THE DAMPERS SHALL OPEN UPON LOSS OF POWER. (REFER TO CODE EXCEPTIONS FOR BUILDINGS WITH AUTOMATIC SPRINKLER SYSTEMS).
  6. DRIED-IN HOISTWAY(S) AND MACHINE/CONTROL ROOM(S) - WEATHER TIGHT.
  7. SUPPORTS AT EACH FLOOR, IN THE PIT AND IN THE OVERHEAD FOR CAR AND COUNTERWEIGHT GUIDE RAIL FASTENING, PROVIDE INTERMEDIATE SUPPORTS WHERE FLOOR HEIGHTS EXCEED SPACING REQUIREMENTS SHOWN ON DRAWINGS. SUPPORTS NOT TO DEFLECT IN EXCESS OF 6.4MM (1/4") UNDER SEISMIC CONDITIONS.
  8. GUIDE RAIL BRACKET SUPPORTS IN CONCRETE. INSERTS OR IMBEDS, IF USED, WILL BE PROVIDED BY ELEVATOR CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. VERIFY LOCATION ON ELEVATOR CONTRACTOR'S SHOP DRAWINGS.
  9. BLOCKOUT/CUTOUT THROUGH WALL AS REQUIRED, TO INSTALL HALL BUTTON BOXES, SIGNAL FIXTURES, AND HATCH DUCT. PROVIDE FOR ANY REPAIRS SUCH AS GROUTING, PATCHING, PAINTING, OR FIRE PROOFING. COORDINATE BLOCKOUT/CUTOUT WITH ELEVATOR CONTRACTOR.
  10. IF FRONT HOISTWAY WALLS ARE CONCRETE OR MASONRY, FORM ROUGH OPENINGS 216MM (8.5") GREATER IN ON EACH SIDE AND 15" GREATER IN HEIGHT THAN CLEAR OPENING. GROUT ROUGH OPENING AFTER ELEVATOR

- ENTRANCE FRAMES HAVE BEEN INSTALLED.
11. IF FRONT HOISTWAY WALLS ARE DRYWALL; WALLS ARE TO BE BUILT AFTER DOORFRAMES AND SILLS ARE SET IN PLACE.
  12. SUPPLY SILL SUPPORT ANGLES IF REQUIRED PER ELEVATOR CONTRACTOR LAYOUT DRAWING.
  13. GROUTING AROUND ENTRANCE FRAMES AND FINISHED FLOOR AND GROUT TO SILL LINE AFTER INSTALLATION OF ENTRANCE.
  14. CONSTRUCTION BARRICADES OUTSIDE OF ELEVATOR HOISTWAY(S) AND BETWEEN ELEVATORS INSIDE OF HOISTWAY(S) AS REQUIRED. BARRICADES TO BE FREESTANDING AND REMOVABLE, LOCATED AT EACH HOISTWAY OPENING AT EACH FLOOR. BARRICADES SHALL BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS.
  15. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES FROM RAILS AND IMPACT LOADS ON BUFFERS. REFER TO PRELIMINARY LOADS INDICATED IN DRAWINGS. REFER TO ELEVATOR CONTRACTOR LAYOUT DRAWINGS FOR FINAL REACTION FORCE VALUES.
  16. ADEQUATE SEALING AND WATERPROOFING OF PIT TO PREVENT INTRUSION OF GROUNDWATER.
  17. WHERE THERE IS A DIFFERENCE IN LEVEL BETWEEN THE FLOORS OF ADJACENT PITS, A METAL GUARD SHALL BE INSTALLED NOT LESS THAN 2000 MM (79") ABOVE THE LEVEL OF THE HIGHER PIT FLOOR.WHERE THE DIFFERENCE IN LEVEL IS 600 MM (24") OR LESS, A STANDARD RAILING CONFORMING TO ASME A17.1 RULE 2.10.2 SHALL BE PERMITTED.
  18. PROVIDE SUMP WITH GRATING LEVEL WITH PIT FLOOR. IN ELEVATORS PROVIDED WITH FIREFIGHTER'S EMERGENCY OPERATIONS, PROVIDE PUMP OR INDIRECT DRAIN WITH CAPACITY TO REMOVE 11.4 M<sup>3</sup>/HR (50 GPM). COORDINATE LOCATION W/ELEVATOR CONTRACTOR. SUMP OR PUMP LINE CANNOT BE CONNECTED DIRECTLY TO STORM DRAIN OR SEWER.
  19. GFCI CONVENIENCE OUTLET AND LIGHT FIXTURE WITH GUARD IN PIT. MINIMUM LIGHTING TO BE 100 LUX (10FC).
  20. PIT ACCESS LADDER FOR EACH ELEVATOR THAT DOES NOT HAVE A WALK-IN PIT.
  21. HOISTING BEAM(S), TRAP DOORS AND OTHER MEANS OF ACCESS TO MACHINERY SPACE OF ADEQUATE SIZE FOR MAINTENANCE AND EQUIPMENT REMOVAL. REFER TO ELEVATOR CONTRACTOR LAYOUT DRAWINGS FOR FINAL LOCATION AND LOADING REQUIREMENTS.
  22. ADEQUATE SUPPORTS FOR MACHINE BEAMS, INCLUDING WALL POCKETS AND PATCHING AFTER BEAMS ARE SET IN PLACE. REFER TO

- ELEVATOR LAYOUT DRAWINGS FOR BUILDING INTERFACE AND MOUNTING OF BEAMS.
23. THE ALLOWABLE DEFLECTIONS OF MACHINERY AND SHEAVE BEAMS AND THEIR IMMEDIATE SUPPORTS UNDER STATIC LOAD SHALL NOT EXCEED 1/1666 OF THE SPAN.
  24. DIVIDER BEAMS BETWEEN ADJACENT ELEVATORS AT EACH FLOOR, PIT AND OVERHEAD. DIVIDER BEAMS NEED NOT BE FIREPROOFED.
  25. IF APPLICABLE, FOR VERTICAL BI-PARTING FREIGHT ENTRANCES, PROVIDE CHANNEL FRAMES AND SILLS AT ALL OPENINGS ALONG WITH SEPARATE DISCONNECT SWITCH AND FEEDER TO DOOR CONTROL PANEL. CHANNEL FRAMES TO BE PLUMB WITHIN 3.2MM (1/8") FOR EVERY 2.4M (8FT).
  26. WHERE THERE IS A BLIND HOISTWAY, AN EMERGENCY DOOR SHALL BE INSTALLED AT EVERY THIRD FLOOR, BUT NOT MORE THAN 11M (36FT) FROM SILL TO SILL. THE CLEAR OPENING MUST BE AT LEAST 700MM (28") WIDE AND 2030MM (80") HIGH.
  27. FOR MRL APPLICATIONS INSTALL A PERMANENT LIGHT FIXTURE AT THE TOP OF THE HOISTWAY TO PROVIDE 200 LUX (19 FC) MEASURED AT THE CAR TOP WHEN THE ELEVATOR IS AT THE TOP LANDING. REFER TO ELEVATOR CONTRACTOR SHOP DRAWINGS FOR LIGHT SWITCH LOCATION.

MACHINE/CONTROL ROOM NOTES:

1. MACHINE/CONTROL ROOM DOOR(S) SHALL BE SELF-CLOSING, SELF-LOCKING AND OPERABLE FROM INSIDE WITHOUT A KEY. DOOR SHALL BE FIRE RATED AS REQUIRED BY CODE WITH A MINIMUM RECOMMENDED SIZE OF 914 MM X 2134 MM (36" X 84).
2. WHERE REQUIRED BY CODE, PROVIDE GOVERNOR ACCESS DOOR AT THE TOP OF THE HOISTWAY. IT SHALL BE SELF-CLOSING, SELF-LOCKING AND OPERABLE FROM INSIDE WITHOUT A KEY. REFER ELEVATOR CONTRACTOR LAYOUT DRAWINGS FOR EXACT SIZE AND LOCATION.
3. BLOCK-OUTS THROUGH MACHINE ROOM FLOOR AND/OR WALLS FOR ELECTRICAL WIRING DUCTS. VERIFY LOCATION ON ELEVATOR CONTRACTOR SHOP DRAWINGS.
4. MINIMUM LIGHTING TO BE 200 LUX (20FC). MACHINE/CONTROL ROOM OR CONTROL SPACE TEMPERATURE TO BE MAINTAINED BETWEEN 13°C (55°F) AND 32°C (90°F). MACHINERY SPACE (TOP OF OVERHEAD) TEMPERATURE TO BE MAINTAINED BETWEEN 0°C (32°F) AND 40°C (104°F). ACCEPTABLE HUMIDITY LEVELS IN THE ABOVE DESCRIBED AREAS SHALL BE MAINTAINED AT 95% OR LESS, NON-CONDENSING.
5. REINFORCED MACHINE ROOM FLOOR CAPABLE OF SUPPORTING STATIC LOADS IMPOSED BY ELEVATOR EQUIPMENT. FLOORS SHALL SUSTAIN CONCENTRATED LOAD OF 225# ON ANY 3 SQUARE INCH AREA.
6. MINIMUM HEADROOM CLEARANCES: 2,438MM (8'-0") CLEAR RECOMMENDED UNDER MACHINE/CONTROL ROOM CEILING, 7'-6" UNDER ENCROACHING BEAMS (INCLUDING FIREPROOFING).
7. MACHINE/CONTROL ROOM FIRE SPRINKLER RUNS MUST TERMINATE WITHIN THE BOUNDS OF THE MACHINE ROOM. SHUT OFF VALVES SHALL BE LOCATED OUTSIDE THE BOUNDS OF THE MACHINE ROOM. MAINTAIN MINIMUM 7'-0" CLEAR HEADROOM UNDER PIPE RUNS.
8. CLASS "ABC" FIRE EXTINGUISHERS IN ELECTRICAL MACHINERY AND CONTROL SPACE. EXTINGUISHERS SHALL BE LOCATED CONVENIENT TO ACCESS DOOR.
9. ONLY EQUIPMENT USED IN CONJUNCTION WITH THE FUNCTION OF THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR MACHINE ROOM. ACCESS THROUGH ELEVATOR MACHINE ROOM TO ADJACENT ROOMS OR AREAS SHALL NOT BE PERMITTED. PERMANENT AND UNOBSTRUCTED ACCESS TO MACHINE ROOM SHALL BE PROVIDED FOR AUTHORIZED PERSONNEL.

ELECTRICAL NOTES

1. POWER FOR CONSTRUCTION ADJACENT TO HOISTWAYS AND MACHINE/CONTROL ROOMS (110/220 VOLT, SINGLE PHASE, FOR WELDERS AND HOISTS) AND SUFFICIENT 3-PHASE POWER TO RUN ELEVATOR(S) AT THE SAME TIME.
2. WHERE MACHINE/CONTROL ROOM(S) ARE REMOTE FROM THE HOISTWAY, ELECTRICAL DUCT RUNS WILL BE IN THE OVERHEAD/CEILING AREA.
3. GFCI CONVENIENCE OUTLET AND TELEPHONE OUTLET LOCATED IN MACHINE/CONTROL ROOM FOR EACH ELEVATOR. DEDICATED TELEPHONE LINE CAPABLE OF OUTGOING AND INCOMING CALLS FOR EMERGENCY PHONE SYSTEMS AND REMOTE MONITORING.
4. PROVIDE A LOCKABLE, FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER SUITABLE FOR 3-PHASE POWER FOR THE ELEVATOR CONTROL AND A SEPARATE LOCKABLE, FUSED SINGLE-PHASE DISCONNECT SWITCH FOR CAR LIGHTING CIRCUIT FOR EACH ELEVATOR. LOCATE AND MARK WITH APPROPRIATE SIGNAGE.
5. PROVIDE SUITABLE FEEDER AND BRANCH WIRING CIRCUITS FROM THE BUILDING SERVICE TO THE CONTROLLER, INCLUDING MAIN LINE SWITCH, FOR SIGNAL SYSTEMS, POWER OPERATED DOORS, CAR LIGHTING AND CONVENIENCE OUTLETS.
6. FIRE ALARM INITIATING DEVICES IN EACH ELEVATOR LOBBY, FOR EACH HOISTWAY AND MACHINE ROOM, TO INITIATE FIREFIGHTER'S RETURN FEATURE. DEVICE AT TOP OF HOISTWAY IF SPRINKLED. PROVIDE A DISCRETE SIGNAL FROM EACH OF THE FOLLOWING ZONES OR DETECTORS: MAIN LOBBY, ALL OTHER LOBBIES, EACH HOISTWAY, AND EACH MACHINE ROOM.
7. MEANS TO AUTOMATICALLY DISCONNECT POWER TO AFFECTED ELEVATOR DRIVE UNIT AND CONTROLLER PRIOR TO ACTIVATION OF MACHINE ROOM, OVERHEAD FIRE SPRINKLER SYSTEMS, AND/OR OF HOISTWAY OVERHEAD FIRE SPRINKLER SYSTEMS.
8. WHERE ELEVATOR TOTAL RISE IS GREATER THAN OR EQUAL TO 18 M (60 FT), PROVIDE TWO-WAY VOICE COMMUNICATIONS MEANS THAT SHALL ENABLE EMERGENCY PERSONNEL WITHIN THE BUILDING TO ESTABLISH COMMUNICATIONS TO EACH CAR INDIVIDUALLY WITHOUT INTERVENTION BY A PERSON WITHIN THE CAR.

STANDBY POWER NOTES

1. EACH ELEVATOR PROVIDED WITH BATTERY RESCUE DEVICE IN LIEU OF EMERGENCY POWER. PROVIDE TWO NORMALLY OPEN AUXILIARY CONTACTS INSTALLED IN EACH MAINLINE DISCONNECT LOCATED IN CONTROL ROOM.

ADDITIONAL MACHINE ROOM POWER AND DISCONNECT REQUIREMENTS		
SYSTEM	VOLTAGE	CIRCUIT
CAR LIGHTING, FAN & CONVENIENCE RECEPTACLE	120 - 1 - 60	20 A
MACHINE ROOM LIGHTING & GFCI RECEPTACLE	120 - 1 - 60	20 A
PIT LIGHTING & GFCI RECEPTACLE	120 - 1 - 60	20 A
MACHINE ROOM AC UNIT	REFER TO MECHANICAL	REFER TO MECHANICAL
INTERCOM (IF APPLICABLE)	120 - 1 - 60	15 A

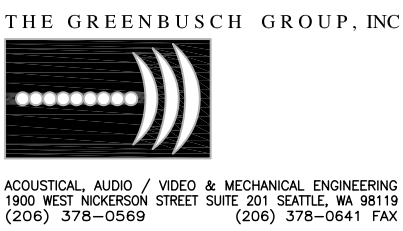
POWERFEEDER REQUIREMENTS (MAIN POWER SUPPLY: 480-3-60 ASSUMED)								
ELEVATOR	CAPACITY (LBS)	SPEED (FPM)	MOTOR (HP)	RATED DRIVE (HP)	MOTOR AMPS		HEAT REJECTED	
					RUNNING (A)	ACCELERATING (A)	MACHINE SPACE (BTUH)	CONTROL SPACE (BTUH)
ELEVATOR #1	5,000	200	19.1	40	27	54	3,000	6,000

NOTES:  
1. POWER AND CURRENT ARE BASED ON THREE PHASE AC POWER SUPPLY.  
2. USE COPPER CONDUCTORS ONLY.  
3. EACH CONTROLLER TO BE PROVIDED MAIN POWER THROUGH DISCONNECTING MEANS MEETING NEC REQUIREMENTS.  
4. DISCONNECTING MEANS TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.  
5. HEAT RELEASE BASED ON 80 UPSTARTS/HR.  
6. MACHINE SPACE TEMPERATURE TO BE MIN. 55°F, MAX. 90°F.  
7. RELATIVE HUMIDITY TO BE MAX 80%.  
8. ALL VALUES SHOWN ARE BASED UPON ONE MANUFACTURER'S STANDARD EQUIPMENT AND ARE PROVIDED FOR PRELIMINARY PLANNING PURPOSES ONLY. FINAL VALUES WILL NEED TO BE COORDINATED WITH BID WINNING MANUFACTURER.

BID DOCUMENT  
NOVEMBER/2015

BID DOCUMENT	7/6/2015
100% CONSTRUCTION DOCUMENT	1/26/15
	12/30/14
99% CONSTRUCTION DOCUMENT	12/17/14
95% CONSTRUCTION DOCUMENT	9/30/14
65% DESIGN DEVELOPMENT	6/27/14
SCHEMATIC DESIGN	03/28/14
Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:



Drawing Title  
ELEVATOR SCHEDULES AND WORK BY OTHERS

Approved Project Director  
APPROVER

Project Title  
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING  
4815 NORTH ASSEMBLY ST.  
SPOKANE, WASHINGTON 99205

Location  
SPOKANE, WASHINGTON 99205

Date  
7/6/2015

Checked  
DT

Drawn  
JA

Project Number  
668-313

Building Number  
40A

Drawing Number  
VT100

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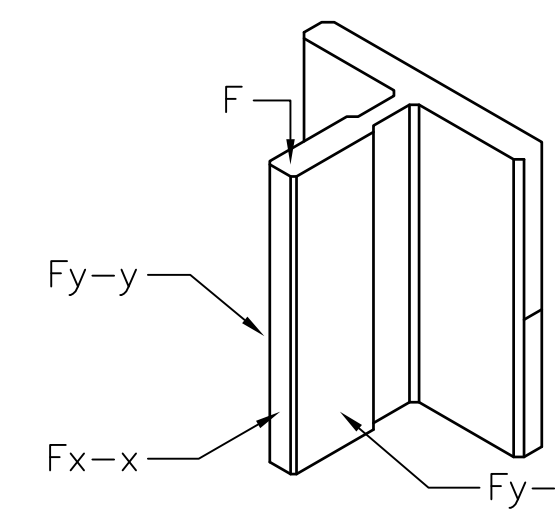
Office of  
Construction  
and Facilities  
Management







CAR RAIL FORCES	Fx-x	Fy-y
SEISMIC ZONE 3 (CAR)	3.1	1.6
SEISMIC ZONE 3 (CWT)	3.3	1.7
MAXIMUM ALLOWABLE DEFLECTION PER ASME A17.1, AT RAIL BRACKET SUPPORT LOCATIONS IS 0.09" FOR LOADING AND RUNNING LOADS AND 0.19" FOR SEISMIC LOADS/SAFETY APPLICATION.		

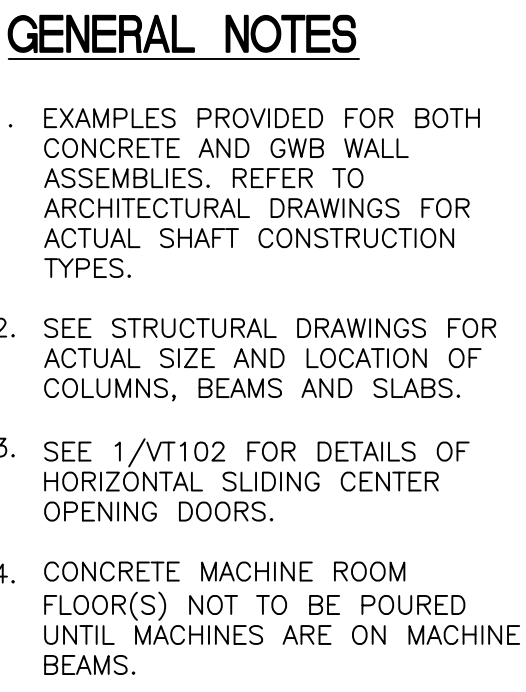


4. FOR EQUIPMENT IN THE CONTROL ROOM, A CLEARANCE OF NOT LESS THAN 18" SHALL BE PROVIDED IN THE DIRECTION(S) REQUIRED FOR MAINTENANCE, AND A CLEAR PATH OF NOT LESS THAN 18". SHALL BE PROVIDED TO ALL COMPONENTS THAT REQUIRE MAINTENANCE.

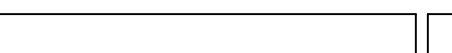

- ## OVERHEAD NOTES

- Office of  
Construction  
and Facilities  
Management





### 3 **GWB WALL ASSEMBLIES ENTRANCE DETAILS**

		<b>CONSULTANTS:</b>				<b>ARCHITECT/ENGINEERS:</b>		<b>Drawing Title</b> ELEVATOR DETAILS		<b>Project Title</b> INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING 4815 NORTH ASSEMBLY ST. SPOKANE, WASHINGTON 99205		<b>Project Number</b> 668-313		<div>Office of Construction and Facilities Management</div>			
BID DOCUMENT 100% CONSTRUCTION DOCUMENT		7/6/2015 1/26/15 12/30/14 12/17/14 9/30/14 6/27/14 03/28/14 Revisions: Date		 THE GREENBUSH GROUP, INC. ARCHITECT, PLANNING / ARCH & MECHANICAL ENGINEERING 1000 WEST HENDERSON STREET SUITE 201 SPOKANE, WA 99201 (509) 378-0569 (509) 378-0641 FAX		14410 SE Petrovitsky Rd. Suite 206 Renton, Washington 98058 425-291-7053		Approved Project Director APPROVER		Location SPOKANE, WASHINGTON 99205		<b>Drawing Number</b> VT102					
										Date 7/6/2015		Checked DT		Drawn JA		Dwg. of	