

REVISED / ISSUED / PLOTTED	DATE

GENERAL

- These notes are to be read in conjunction with the specifications drawings and all other documents pertaining to this project.
- This building has been designed in accordance with the 2011 edition of the Manitoba Building Code.
- The contractor shall be responsible for the design and installation of all necessary shoring, bracing and formwork. Formwork for new construction shall be bridged over existing services. Procedure must be approved by the design Engineer.
- Any unsound structural conditions observed or created during construction are to be reported to Engineer immediately.
- Coordinate size and location of all openings in structural members with trades involved. All openings not indicated on structural drawings to be approved by Engineer.
- Confirm the location of all sub-grade services prior to commencing site work.
- Verify all dimensions and elevations with architectural drawings prior to construction. Any discrepancies to be reported to engineer immediately. Do not scale drawings.
- Do not backfill against structure until main floor is in place.
- Confirm all existing conditions prior to construction. Any discrepancies or conflicts to be reported to Engineer immediately.

C-I-P CONCRETE PILES

- Cast-in-place piles are designed for an assumed skin friction of 17 kPa based on NTL report dated 7Feb2013.
- Concrete for cast-in-place piles shall be 32 MPa @ 28 days using sulfate resisting type 50 cement, 40mm maximum size aggregate, 90mm slump and 3% to 5% air entrainment. Vibrate the top 3m of each pile
- Piles shall be no more than 2% out of plumb; and no more than 50mm out of alignment.
- Pile reinforcing shall extend a minimum of 600mm into pilecap or grade beam/wall.

C-I-P CONCRETE FLOOR SLAB ON GRADE

- Cut the existing grade to an average depth of 450mm below existing.
- Compact and proof-roll the existing subgrade base.
- Install a 300mm layer of 20mm down crushed limestone in 2 lifts, each compacted to 98% Standard Proctor dry density.
- Place the specified 165mm reinforced concrete floor slab.

CONCRETE

- Concrete work shall be in accordance with CSA A23.1-09 for "Concrete Materials and Methods of Concrete Construction" including cold weather requirements when the temperature falls below 5°C.
- Provide one set of concrete test cylinders in accordance with CSA A23-09 for every 50 m³ of concrete placed and a minimum of one set for each structural component.
- Performance specification as per A23.1-09 Table 5: (Include Performance or Prescriptive, not both)
Concrete Strength @ 28 Days:
Precast Concrete 35 MPa
Piles & Pile Caps 32 MPa
All other concrete 32 MPa

Exposure Class:
Precast Concrete S-2
Piles & Pile Caps S-2
Parking Structures above grade C-1
Curbs/ Sidewalks/ Driveways C-2
All other concrete N
- Prescriptive specifications as per A23.1-09 Table 5:
a. Mix Properties
b. Range of Air Content 6% +/-1%
c. Slump Range 90mm +/- 20mm
d. Concrete Usage as per Plan
- Walls, piers and columns shall be poured a minimum of 24 hours before slabs and beams.
- Provide dovetail anchor slots in concrete walls and columns where masonry abuts.
- All structural slabs framing into concrete walls or beams shall have a minimum 40mm chase into supporting member by the height of the slab.
- Where concrete beams frame into concrete walls or other concrete beams and are poured later, provide 40mm chase (height and width to match beam).
- The use of calcium chloride is not permitted.
- Construction joint keys in grade beams shall be formed at pile locations only.
- Construction joint keys in structural slabs to be formed at 1/3 span. Provide key width equal to half the thickness of the slab. Provide 15M dowels @ 600 o/c top & bottom.
- Saw cuts for slab on grade shall be 38mm deep & 3mm wide. Cutting to be done not sooner than 12 hours, and not later than 24 hours after the slab is poured. Cuts to be filled with approved bituminous compound or caulking.
- Slip joint all paving against structural members with 12mm impregnated fibreboard.
- Coordinate the location of all items embedded in concrete work with Architectural, Mechanical & Electrical drawings.
- Engineer to be notified at least 48 hours in advance of all major pours.
- Refer to architectural drawings for concrete surfaces requiring architectural finishes.
- Where voidform is indicated on drawings use cardboard shearmat below structural slabs and low density polystyrene below walls and grade beams.
- Exterior sidewalks to be 100mm thk. concrete on compacted granular fill reinforced with 10m @ 300 o/c E.W. mid-depth. Provide toolled control joints @ max. 1500 o/c and construction joints @ max. 6100 o/c
- Concrete slab at exterior refuse container to be 150mm thick concrete on compacted granular fill reinforced with 15M @ 300 o/c E.W. mid. depth.

ADHESIVE ANCHORING SYSTEM

- Drill holes with ANSI B212.15 matched tolerance carbide tipped drill bits. Diamond coring holes is not permitted.
- Drilled hole specifications (diameter & depth) shall comply with manufacturer specifications and ICBP ER-5193.
- Allowable loads may be increased by 33-1/3% for short-term wind or seismic load resistance IAW ICBP ER-5193.
- When conducted, field proof test anchors 150-200% of manufacturer published allowable tension load. Torque testing is not permitted.
- Installation in holes with standing water is not permitted.
- Anchors will be tightened with a torque wrench. Use of an impact wrench is not permitted.
- Prepare base material and install all anchors as per manufacturer's requirements.

REINFORCING

- All bars to conform to CSA G30.12.
15M bars and larger to be grade 400
10M bars and supporting rods to be grade 300 or better
- All steel to be detailed in accordance with the current ACI Detailing Manual.
- Minimum clear cover to reinforcing:
- 20mm structural slabs
- 25mm interior face of walls
- 40mm face of grade beams
- 50mm exterior face of walls, bottom of grade beams & walls
- 75mm pile caps
- 75mm bottom of footings
- All reinforcing shall be held in place with proper accessories.
- In concrete beams, bend horizontal reinforcing 600mm around corners, or use extra corner bars 900mm x 900mm.
- Top steel in beams shall be lapped at centre span, bottom steel shall be lapped at support.
- All reinforcing steel shall be cleaned of all dirt, grease and other deleterious materials prior to placing.
- All reinforcing shall be new billet deformed bars.
- Minimum reinforcing for equipment bases 10M @ 300 o/c E.W.
- Reinforcing steel supplier to confer with contractor as to desired construction joint locations and supply dowels and bar lengths to accommodate these joints.
- Reinforcing steel supplier shall submit shop drawings for review of fabrication, sizes, dimensions, placement and splice locations.

STRUCTURAL STEEL

- All structural steel, including HSS sections, to be in accordance with G40.21-M350W.
- All welding shall conform to CSA W59; fabricators to be certified in accordance with the latest edition CSA W47.1.
- Fabrication and erection shall be in accordance with the latest edition CSA S16.1, "Steel Structures for Buildings".
- Steel erector shall be responsible for supplying and erecting all temporary bracing to provide stability for the structure as a whole, until all related structural framing is erected and completely installed.
- Fabricator shall notify the engineer of any proposed member substitutions or changed connection details.
- Holes required in steel sections must be approved by the engineer.
- All beams continuous over columns shall have 2 web stiffeners on each side, the same thickness as column unless noted, but not less than 10mm.
- No holes permitted in top of beams at columns where beams are continuous over columns, unless loss of section by holes is compensated by equal material area welded to side of flange.
- All structural steel shall receive at least one coat primer to CISC/CPMA standard 1-73.
- Use asphalt base paint (flinkote 410-02 or eq.) at columns below slab.
- All high strength bolts to be ASTM A325M.
- The shear capacity of all shear splices shall be at least equal to the shear capacity of the smaller beam, unless noted.
- The steel supplier shall shop weld 40mm x 3mm masonry anchors to all steel members in contact with masonry walls. Maximum spacing of ties shall be 800 o/c unless noted.
- Steel supplier is responsible for design and detailing of all structural steel connections not shown on drawings.
- Anchor bolts shall be supplied by structural steel supplier & set by general contractor. General contractor to supply and install 25mm non-shrink grout under all base plates.
- Expansion anchors to be zinc-plated steel wedge type with the following design values in 30 MPa concrete:
12mm@ - 9 kN shear, 9 kN pull-out
20mm@ - 18 kN shear, 18 kN pull-out
- All exposed portions of ledge angles and connections to be coated with bituminous paint.
- Provide 75 x 75 x 6mm angle framing around all deck openings greater than 450mm x 450mm unless noted.
- Structural steel supplier shall submit shop drawings for review of fabrication, sizes, dimensions and placement. All connections not shown on drawing are to be sealed by a Professional Engineer registered in the Province of Manitoba.

OPEN WEB STEEL JOISTS

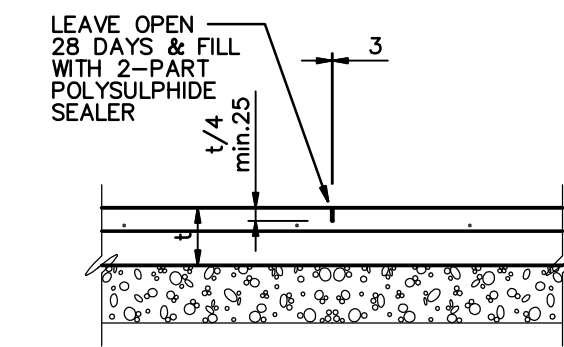
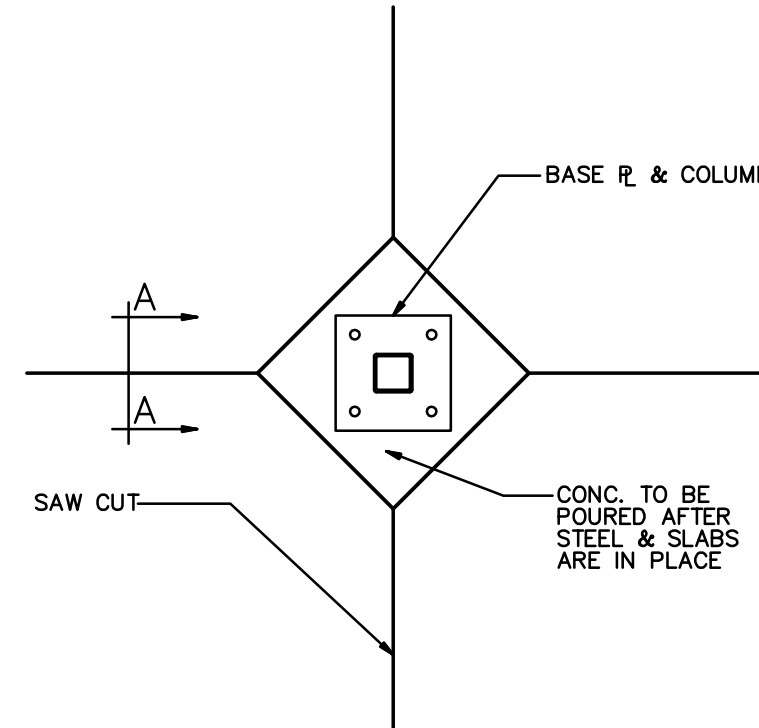
- Joists which are resistance welded shall conform to W55.2 and w55.3.
- Steel joists design shall allow for all snow build-ups prescribed by the 1995 edition of the NBC.
- Bridging shall conform to the latest code requirements.
- Bridging to be connected to all beams and walls.
- Joist supplier to design joists to support mechanical equipment all weights & locations to be confirmed by mechanical contractor.
- Design and supply joist seats and bearing plates to suit elevations and skews indicated on drawings.
- The steel joist supplier shall submit drawings bearing the seal of an engineer, registered in the Province of Manitoba for review of:
- fabrication drawings of each truss type c/w member sizes, dimensions, and design information.
- an erection drawing, showing the location of all truss and other information required by the contractor for the proper installation of the trusses.

STEEL DECK & LIGHT GAUGE METAL FRAMING

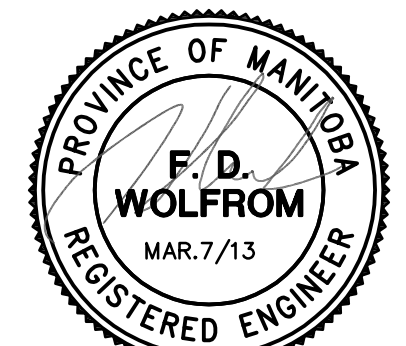
- Steel deck and light gauge metal framing to be designed in accordance with the latest issue of CSA 136 and CSA 136.1 to support the loads indicated on the drawings.
- Steel deck work to be performed in accordance with the latest edition of Canadian Sheet Steel Building Institute Standards for Roof and Floor Decks.
- Steel deck to be manufactured from ASTM A525 Grade A structural quality sheet steel; hot-dip galvanized to ZF025 wiped coat designation.
- Submit shop drawings sealed by a Professional Engineer registered in the Province of Manitoba, indicating decking plan, profiles, supports and design loads.
- Mechanically fasten side laps @ 300 o/c.
- Fasten deck to support members with 19mm fusion welds @ 300 o/c.
- Reinforce deck openings up to 450 square with L55x55x5 each side. Extend reinforcing angles a min. of two flutes beyond open'g. each side.

MISCELLANEOUS METAL

- Refer to architectural drawings for miscellaneous metal details.
- All steel to CSA G40.21-M300W
- Welded rebar anchors to be grade 300 weldable.
- All exposed miscellaneous metal to be reviewed for architectural appearance as per AISC, Specification for Architecturally Exposed Structural Steel.



SAWCUT DETAIL
SAW CUT 18 - 24 HOURS AFTER POURING SLAB



5	100% SUBMISSION	FEB.28/13	FDW
4	100% SUBMISSION	DEC.7/12	FDW
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CONSULTING ENGINEERS
345 WARDLAW AVENUE
WINNIPEG, CANADA R3L 0L5
(204)652-0911 FAX: (204) 652-8888
E-mail: don@wolfromeng.com

TRANSIT BUS PARKING & SERVICE GARAGE

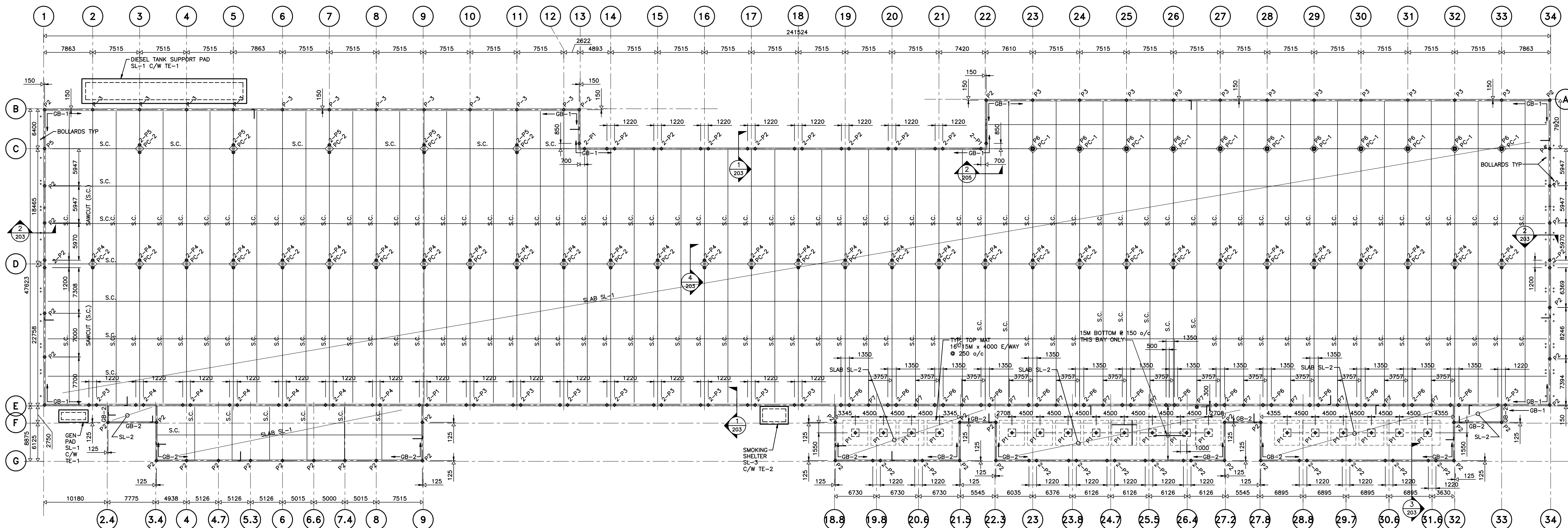
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
GENERAL NOTES

Project number	W12009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW

Scale AS NOTED **200**

REVISED / ISSUED / PLOTTED	DATE



FOUNDATION & MAIN FLOOR FRAMING PLAN

1 : 300

ALL PILES TO BE [P-1] PILES U/NOTED

TOP OF PILE ELEV. BELOW GR BMS = 99 400 U/NOTED
TOP OF PILE ELEV. BELOW GR BMS AT OFFICES = 99 450 U/NOTED
TOP OF PILE ELEV. BELOW PILECAPS = 99 100 U/NOTED

DESIGN LOADS

GARAGE AREA'S:
LIVE LOAD = 24.0 kPa UDL
= 110.0 kN AXLE POINT LOAD

OFFICE/LOCKER ROOMS:
LIVE LOAD = 4.8 kPa

MECHANICAL ROOM:
LIVE LOAD = 6.0 kPa

C-I-P PILE SCHEDULE:

- P-1: 400# CONC PILE x 13.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-2: 400# CONC PILE x 11.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-3: 400# CONC PILE x 12.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-4: 450# CONC PILE x 13.5M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-5: 450# CONC PILE x 14.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-6: 450# CONC PILE x 15.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c
- P-7: 400# CONC PILE x 9.0M LONG R/W 5-10M VERT. x 6.0M LONG 2-10M RINGS TOP REM. # 600 o/c

GRADE BEAM SCHEDULE:

- GB-1: 300 x 1800 DEEP CONC BM R/W 2-25M T & B 3-25M EXTRA BOTT ALONG '1' & '34' 4-10M HORIZ. INT 10M STRPS # 400 o/c 4-20M VERT. # EA. STEEL COL. LOC'N 10 TIES # 300 o/c 150 VOIDFORM BELOW
- GB-2: 250 x 600 DEEP CONC BM R/W 2-20M T & B 10M STRPS # 300 o/c 150 VOIDFORM BELOW

NOTE: PROVIDE 4-20M x 4.5M LONG DOWELS PROJECTING 1000 INTO ALL UPRISTAND GRADE BEAMS

PILECAP SCHEDULE:

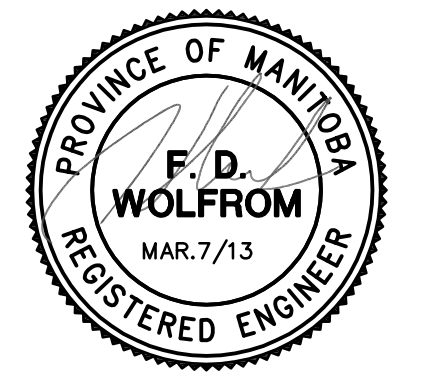
- PC-1: 600# x 600 DEEP CONC PILECAP R/W 6-20M VERT 4-10M RINGS 150 VOIDFORM BELOW
- PC-2: 500 x 1800 x 600 DEEP CONC PILECAP R/W 5-25M T & B 10M STRPS # 300 o/c 150 VOIDFORM BELOW

SLAB SCHEDULE:

- SL-1: 165 CONC SLAB R/W 15M # 400 o/c E/WAY TOP ON COMPACTED GRAN. FILL AS OUTLINED ON GENERAL NOTES SHEET '200'
- SL-2: 150 CONC SLAB R/W 15M # 250 o/c E/WAY BOTTOM ON 150 CARDBOARD SHEARMAT WRAPPED IN POLY 15M PERIMETER TOP DOWELS # 300 o/c
- SL-3: 125 CONC SLAB R/W 10M # 400 o/c E/WAY TOP ON COMPACTED GRAN. FILL AS OUTLINED ON GENERAL NOTES SHEET '200'

THICKENED EDGE SCHEDULE:

- TE-1: 400#400 THICK. EDGE R/W 2-15M TOP & BOTT 10M TIES # 300 o/c
- TE-2: 250#250 THICK. EDGE R/W 2-10M TOP & BOTT 10M TIES # 400 o/c



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CONSULTING ENGINEERS
345 WARDLAW AVENUE
WINNIPEG, CANADA R3L 0L5
(204)62-0911 FAX: 204-488-8888
E-mail: don@wolfromeng.com

TRANSIT BUS PARKING & SERVICE GARAGE

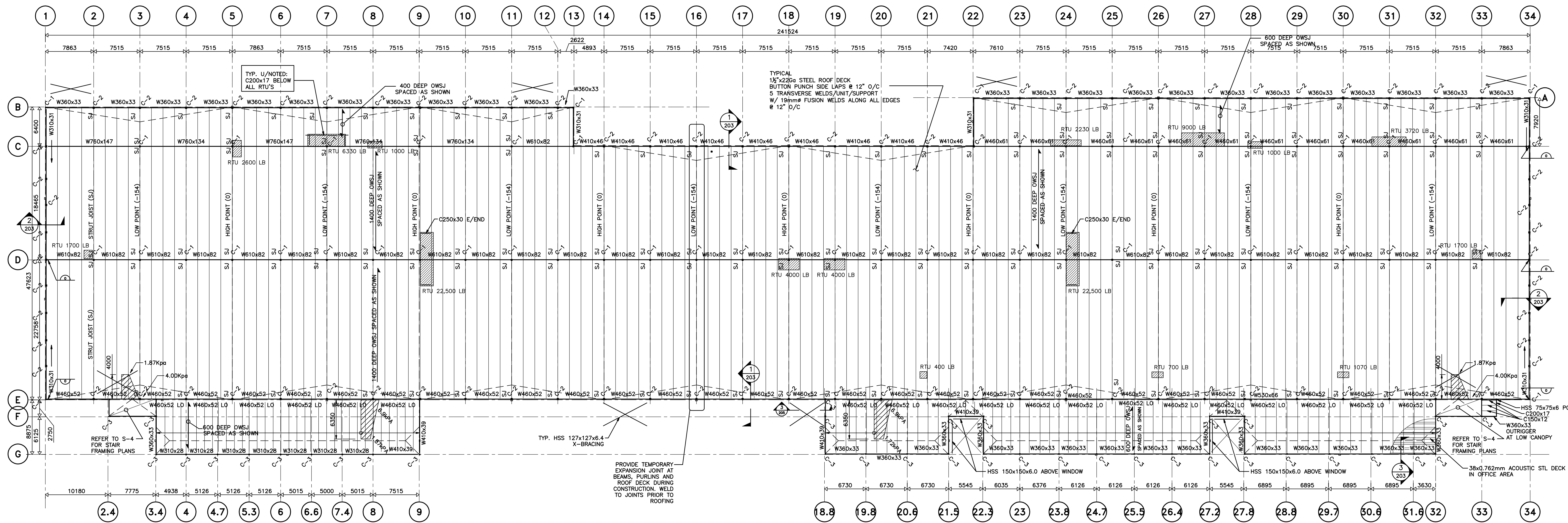
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
FOUNDATION & MAIN FLOOR FRAMING PLAN

Project number	W12009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW

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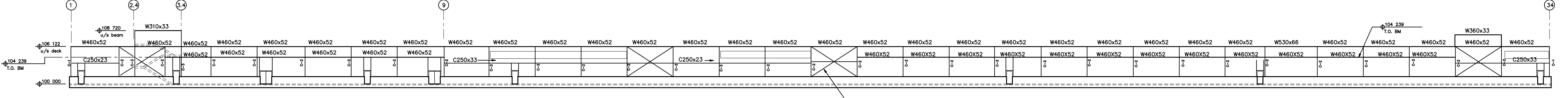
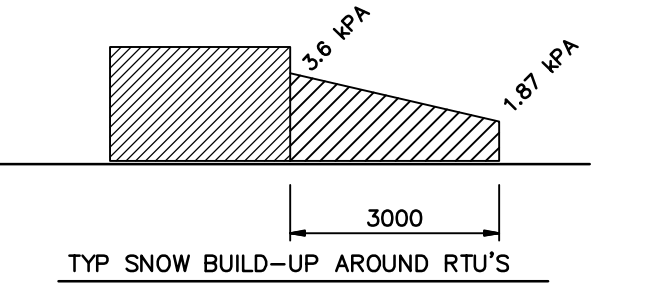
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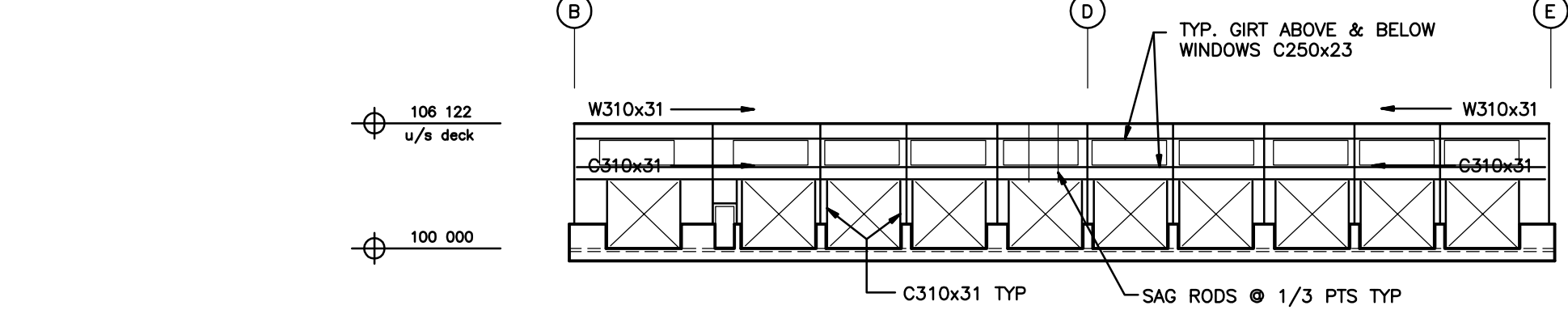
NOTE:
AT ALL STRUT JOISTS (S.J.)
PROVIDE Mf = 95 KN-M CONNECTION
AT ALL BM/COLUMN CONNECTIONS
LINES 1 & 34 PROVIDE Mf = 25
KN-M CONNECTION

ROOF FRAMING PLAN
1 : 300
DESIGN LOADS:
SNOW LOAD = 1.87 KPA
DEAD LOAD = 0.9 KPA
DESIGN WIND LOAD:
p=0.68 KPA

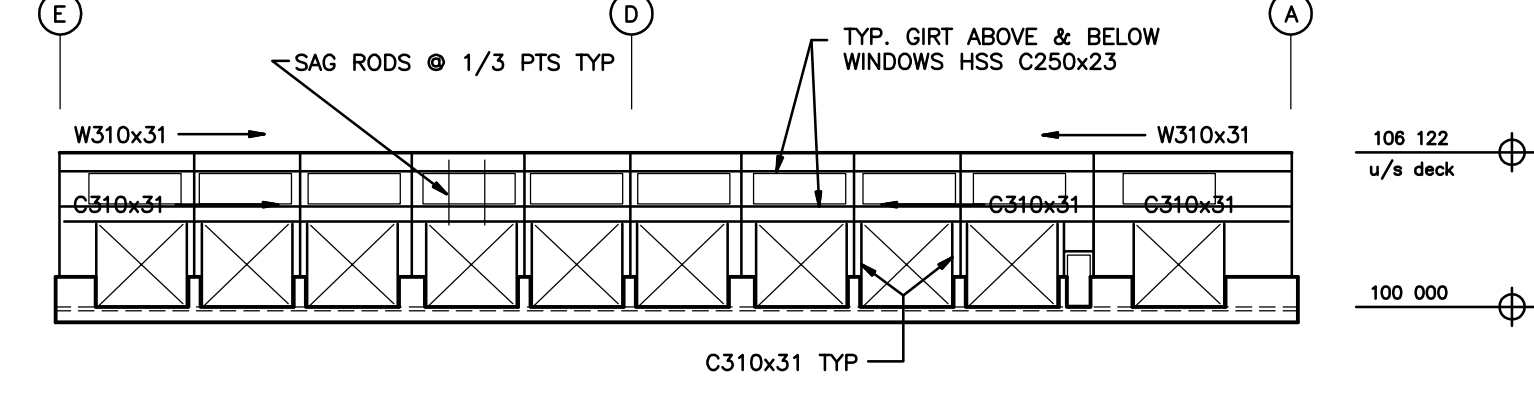
COLUMN SCHEDULE:
C-1: HSS 200x200x6.4
PL 22x500x500
4-22x 500 LG A.BOLTS
C-2: W250x67
PL 22x300x250
4-22x 500 LG A.BOLTS
C-3: HSS 125x125x6.4
PL 19x200x500
4-19x 400 LG A.BOLTS



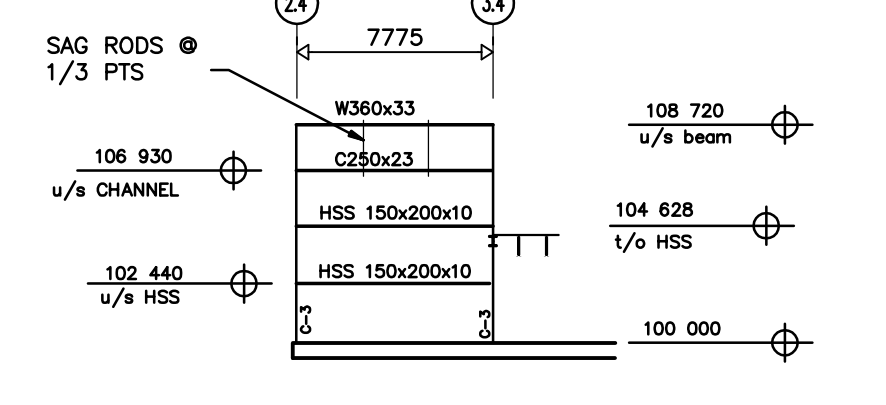
STEEL ELEVATION ALONG g/l 'E'
1 : 300



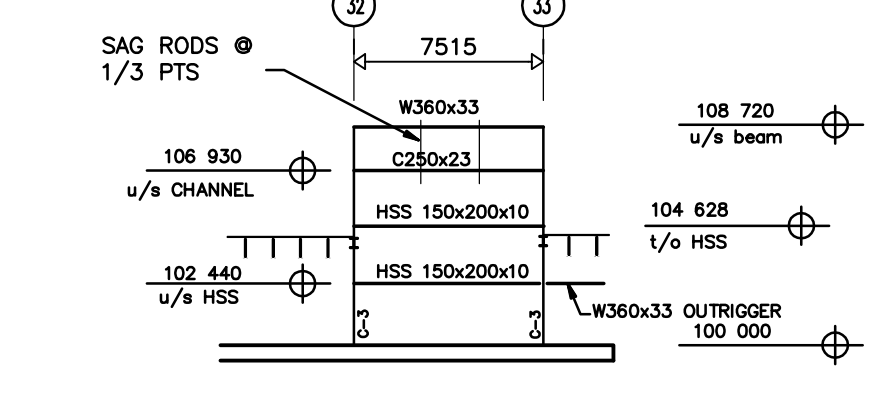
STEEL ELEVATION ALONG g/l '1'
1 : 300



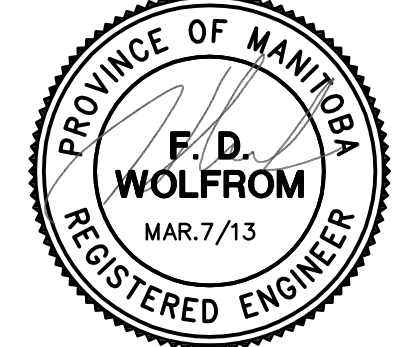
STEEL ELEVATION ALONG g/l '31'
1 : 300



STEEL ELEVATION ALONG g/l 'F'
1 : 300



STEEL ELEVATION ALONG g/l '1'
1 : 300



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CONSULTING ENGINEERS
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WINNIPEG, CANADA R3L 0L5
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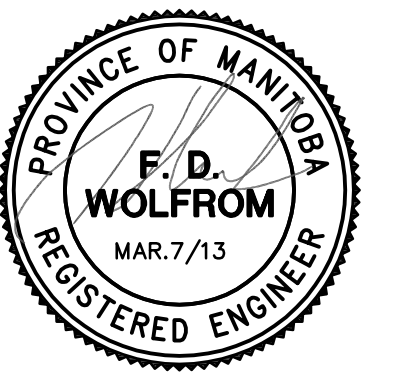
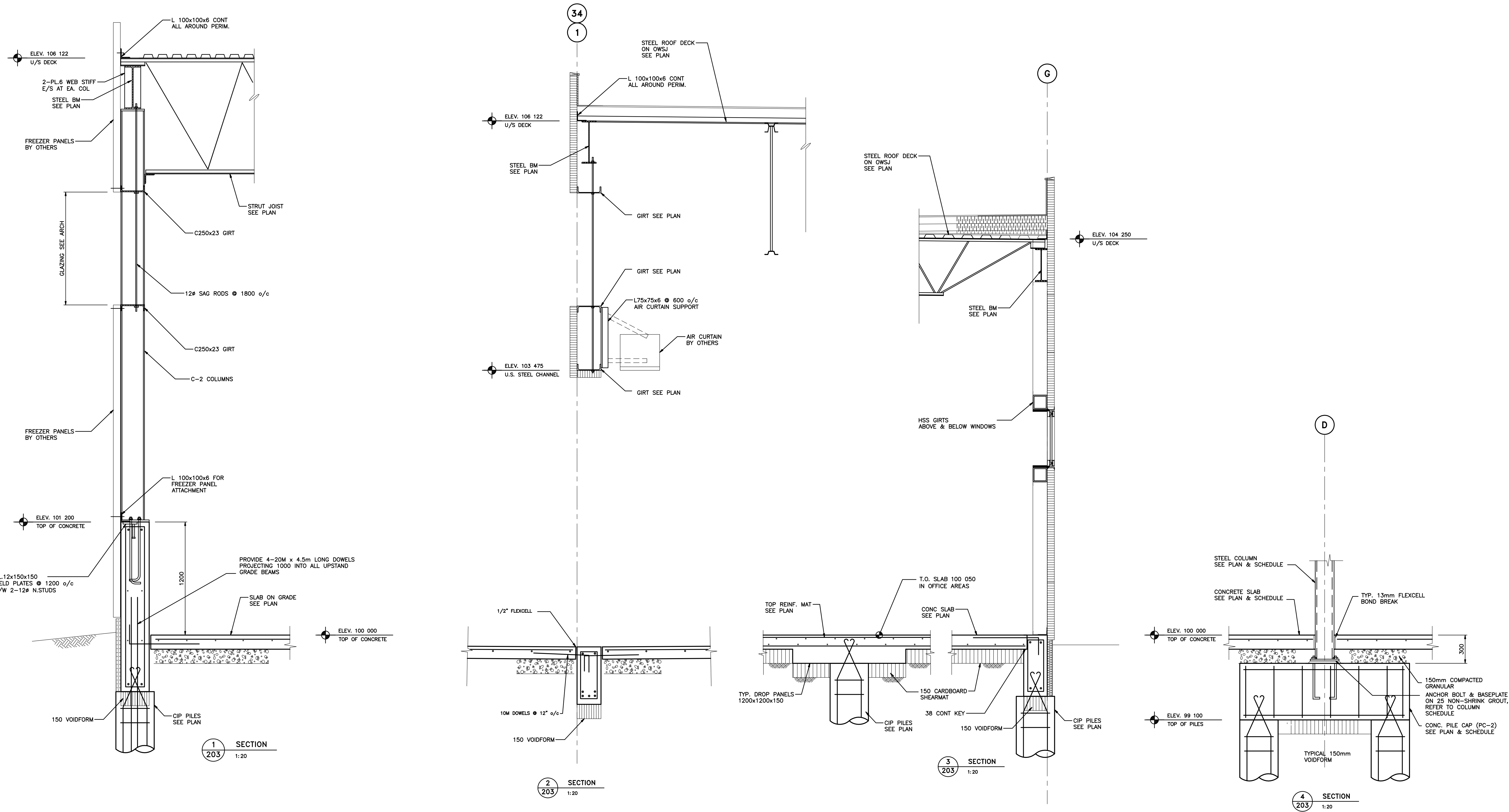
TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ROOF FRAMING PLAN

Project number	W12009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW

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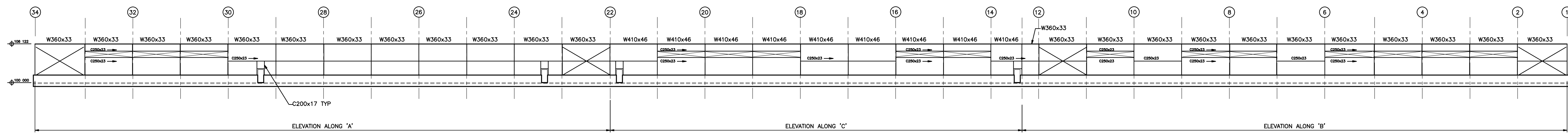
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
SECTIONS & DETAILS

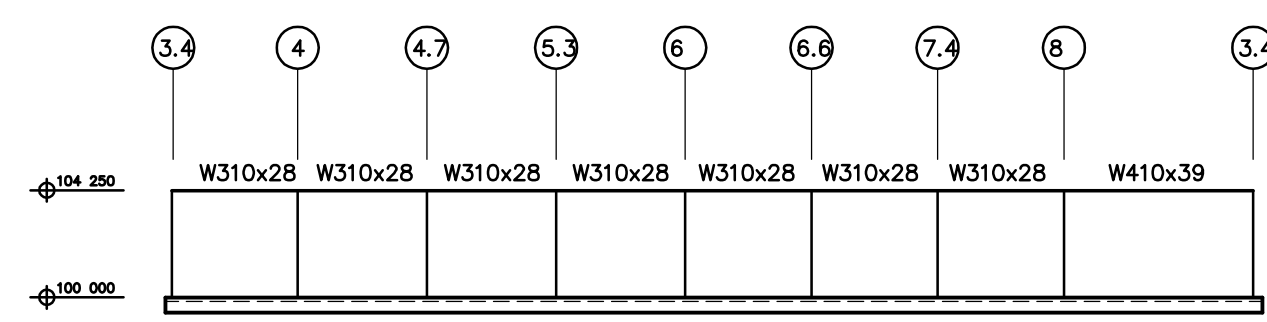
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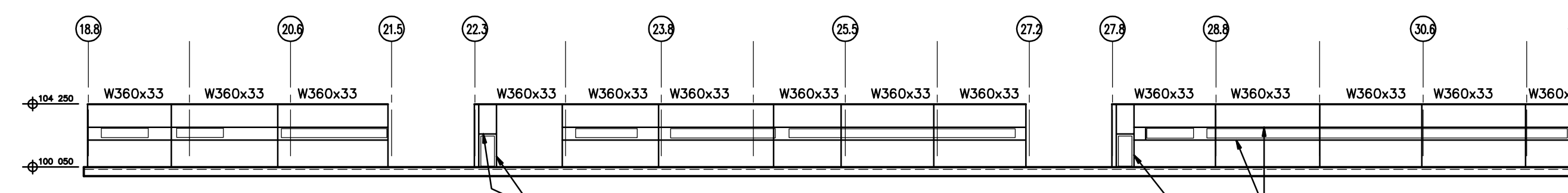
STEEL ELEVATION

1 : 300



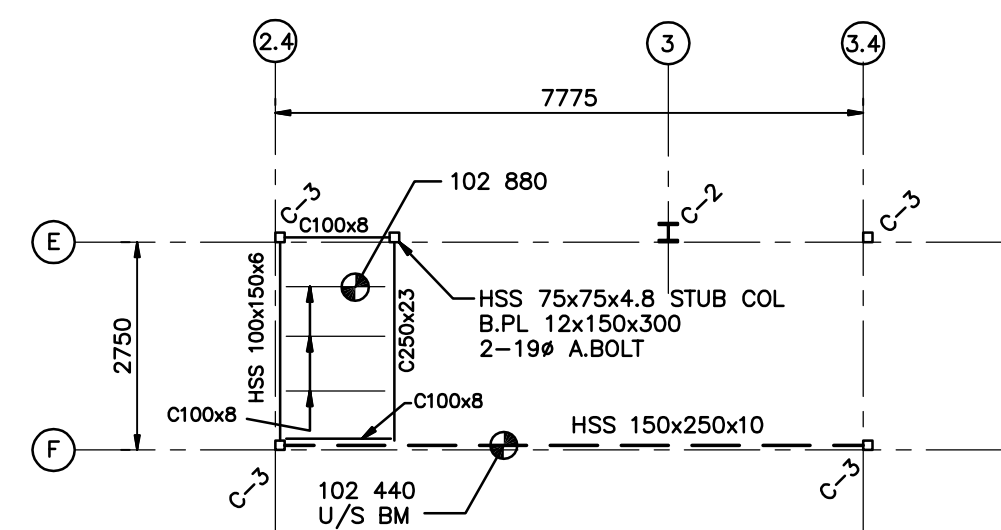
STEEL ELEVATION ALONG g/l 'G'

1 : 300



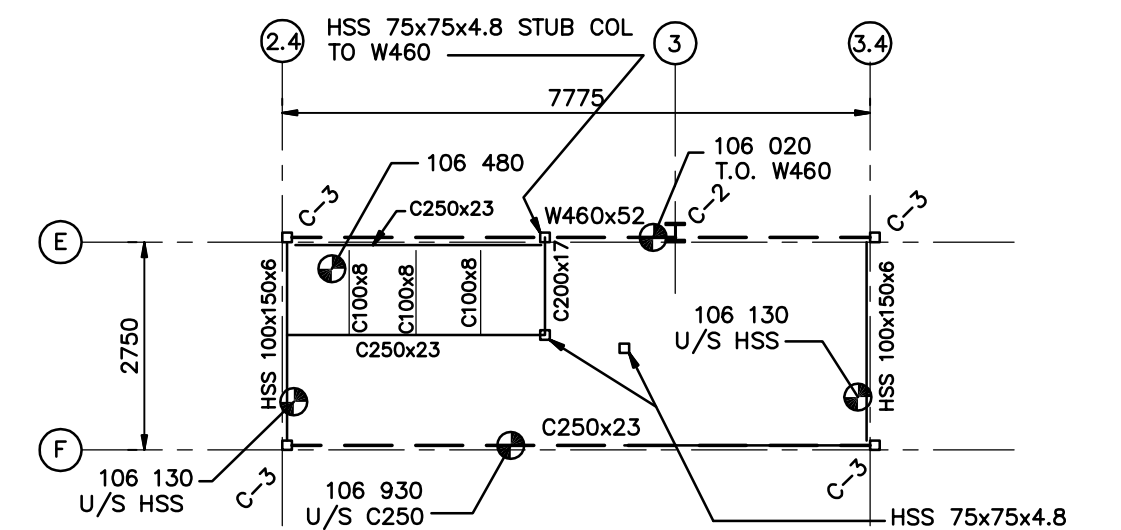
STEEL ELEVATION ALONG g/l 'G'

1 : 300



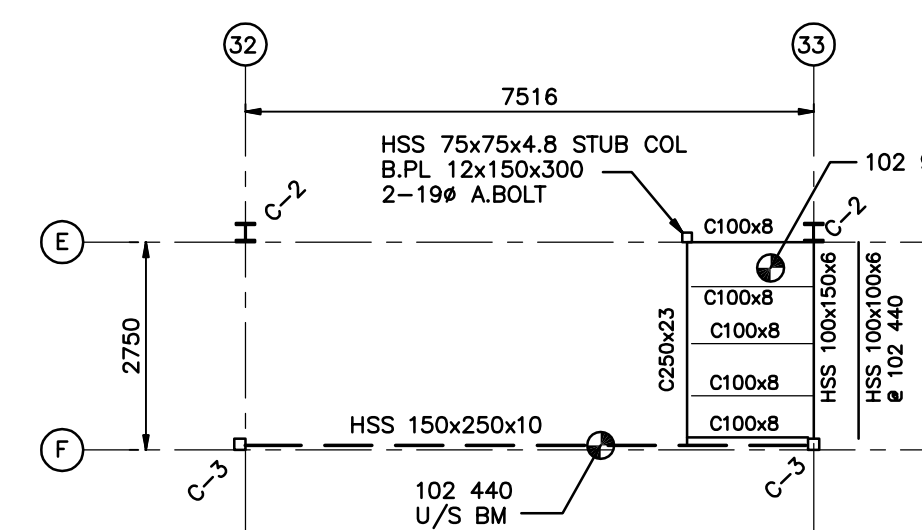
STAIR #2 FRAMING PLAN

1 : 100



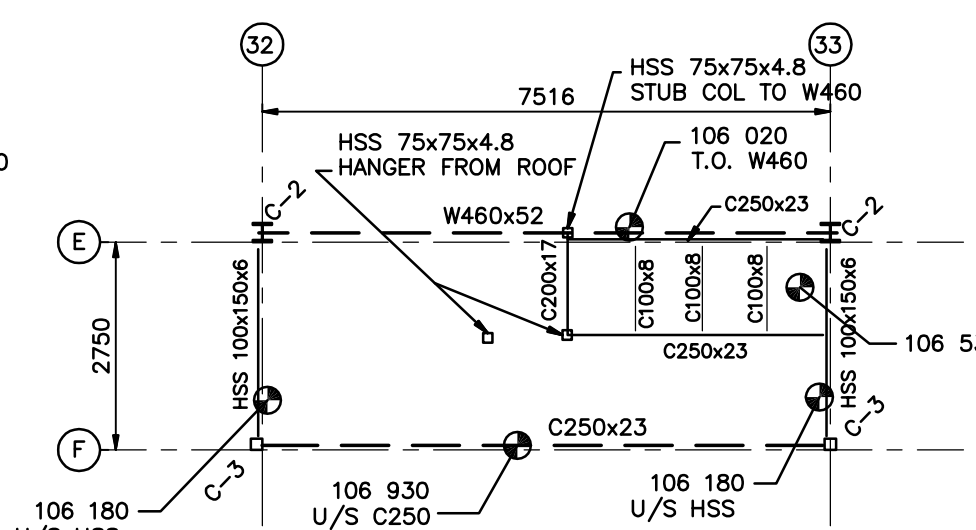
STAIR #2 FRAMING PLAN

1 : 100



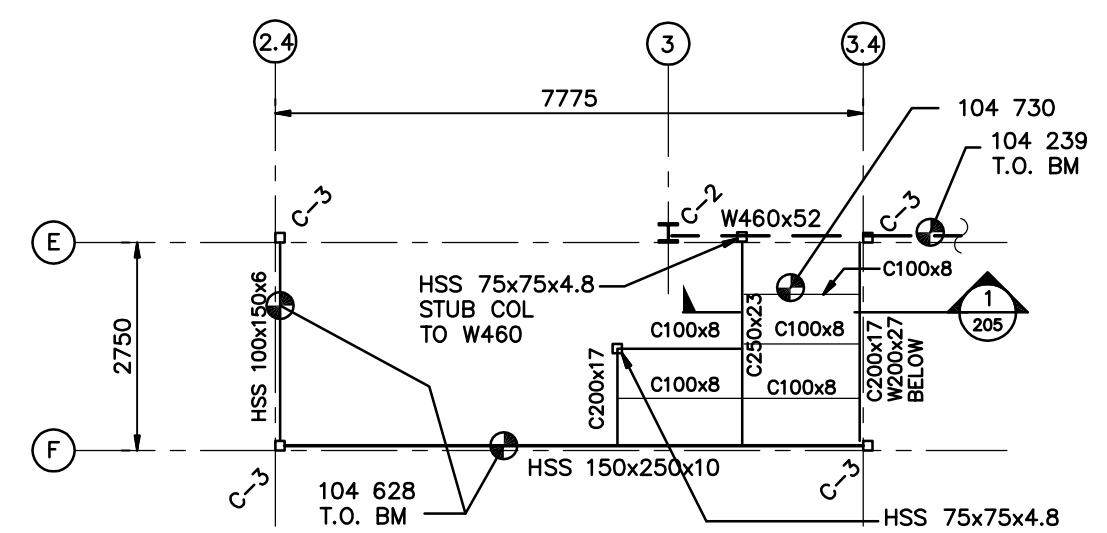
STAIR #1 FRAMING PLAN

1 : 100



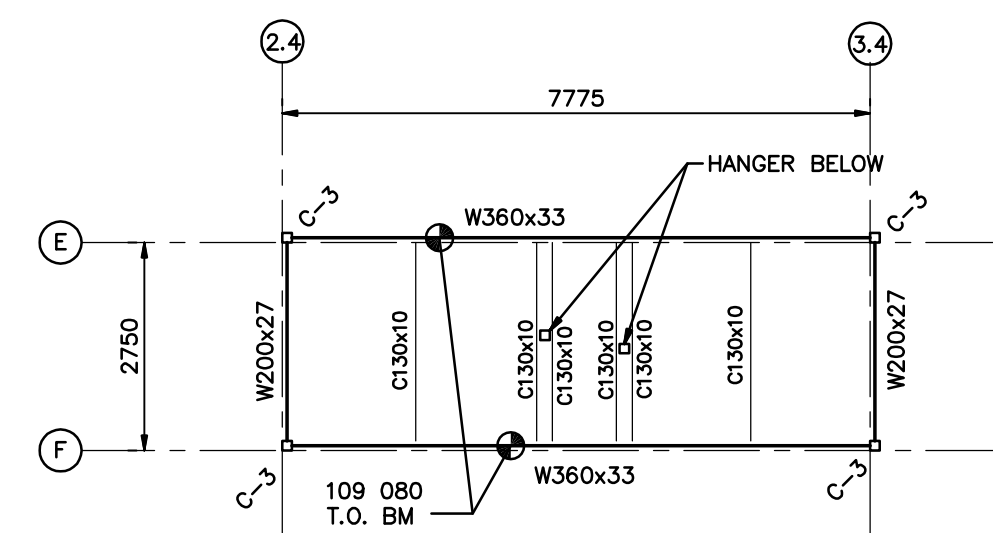
STAIR #1 FRAMING PLAN

1 : 100



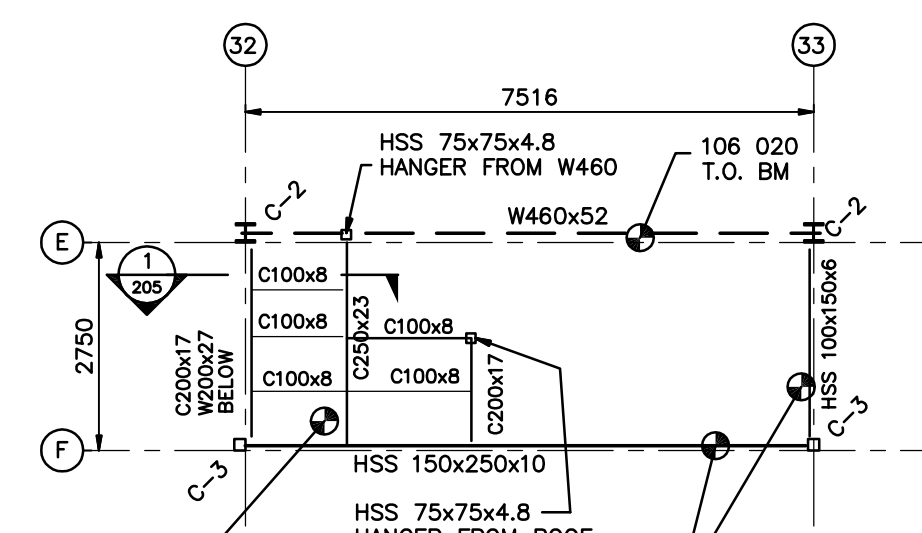
STAIR #2 ROOF FRAMING PLAN

1 : 100



STAIR #2 ROOF FRAMING PLAN

1 : 100



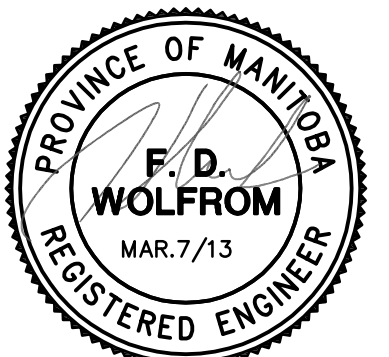
STAIR #1 ROOF FRAMING PLAN

1 : 100



STAIR #1 ROOF FRAMING PLAN

1 : 100



5	100% SUBMISSION	FEB. 28/13	FDW
4	100% SUBMISSION	DEC. 7/12	FDW
3	90% SUBMISSION	OCT. 5/12	FDW
2	ISSUED FOR FOUNDATION CONSTR.	JULY 26/12	FDW
1	ISSUED FOR FOUNDATION PERMIT	JULY 25/12	FDW
0	60% SUBMISSION	JULY 18/12	FDW
No.	REVISION	DATE	BY

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CONSULTING ENGINEERS
345 WARDLAW AVENUE
WINNIPEG, CANADA R3L 0L5
(204)625-0911 FAX: (204)625-0909
E-mail: don@wolfromeng.com

TRANSIT BUS PARKING & SERVICE GARAGE

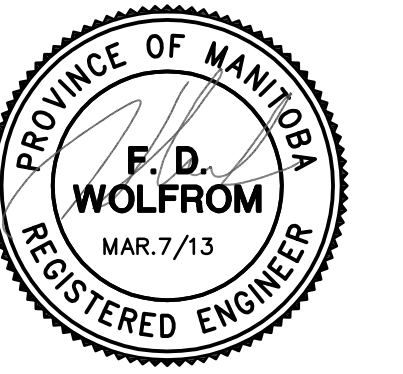
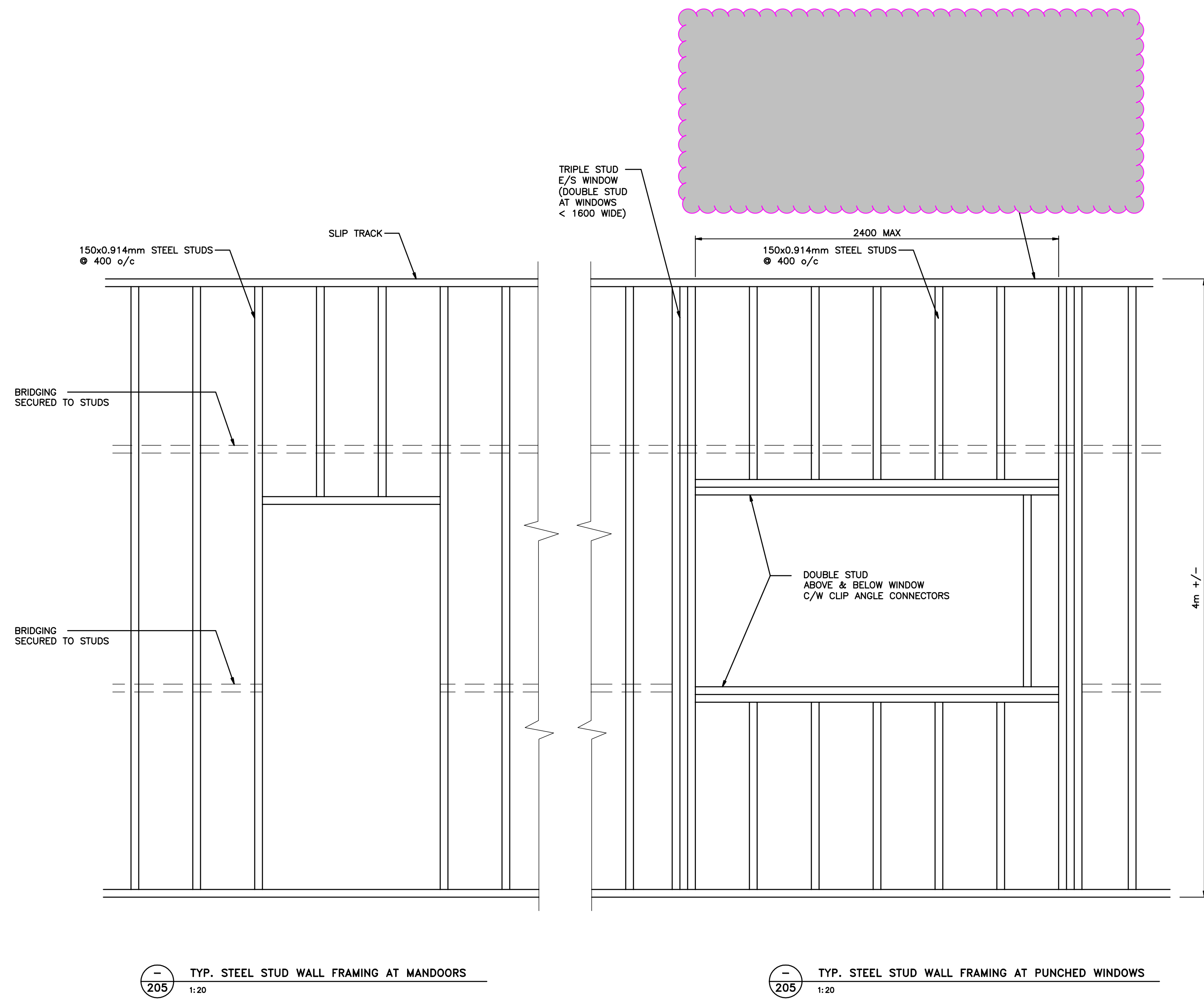
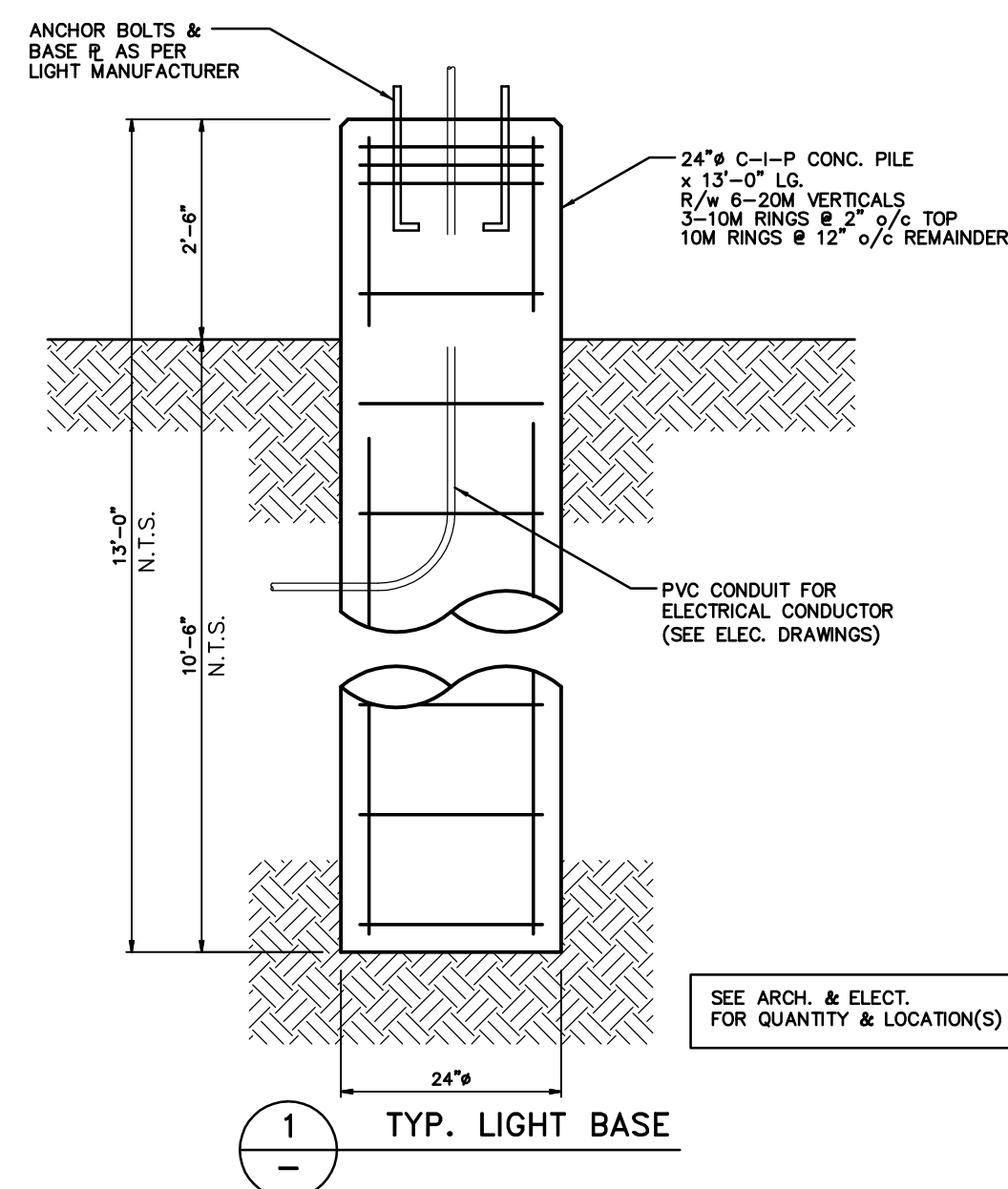
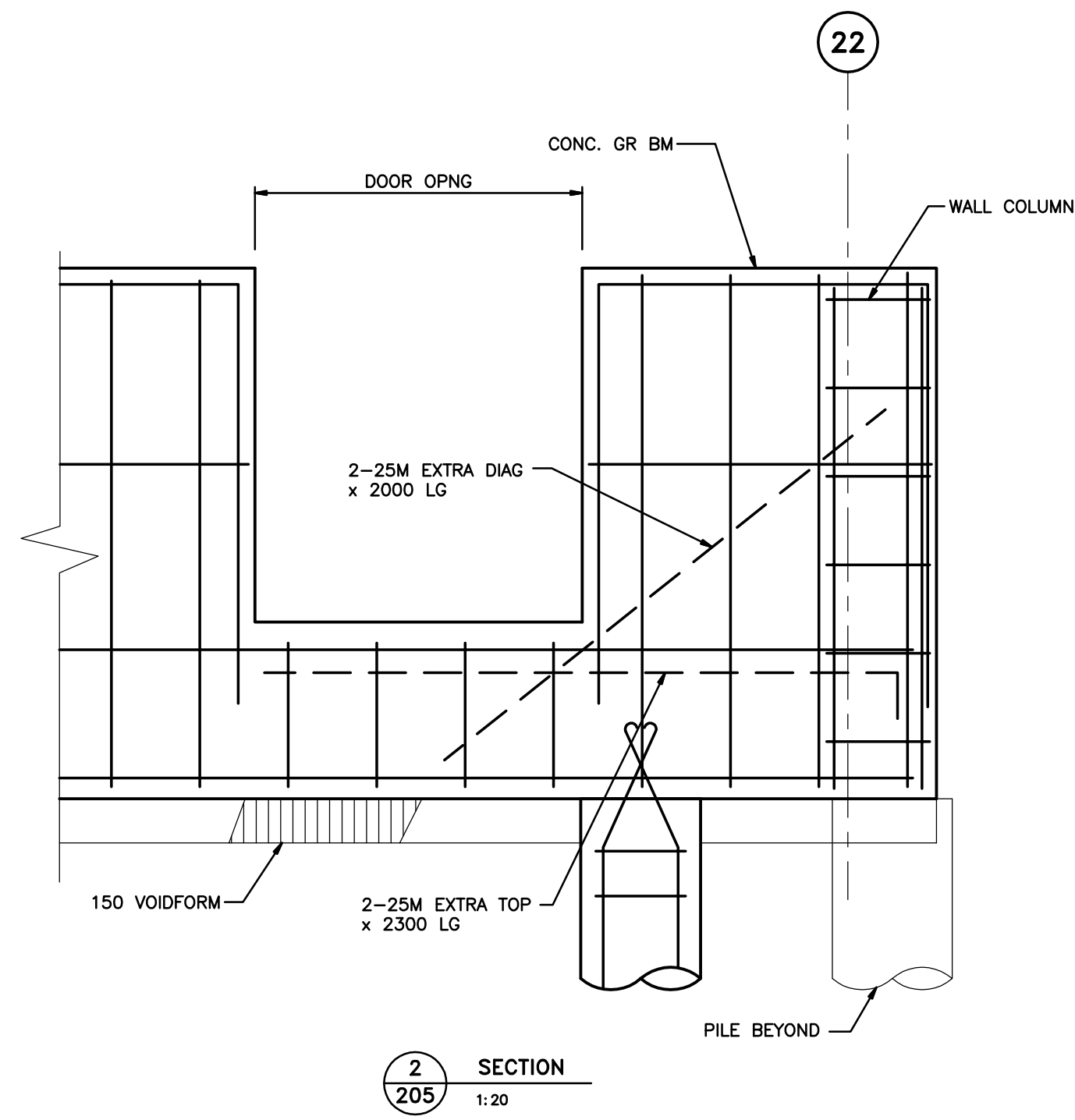
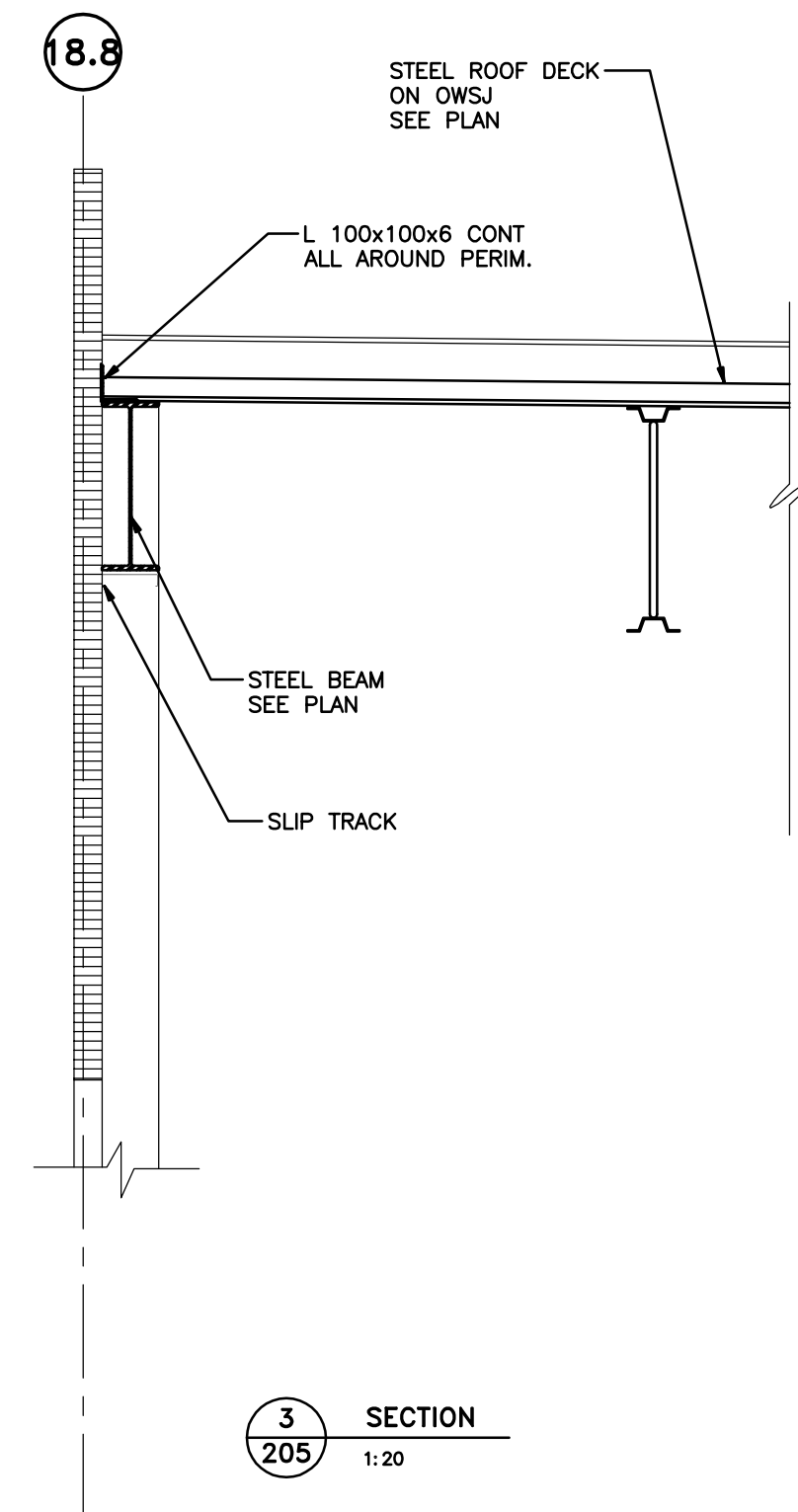
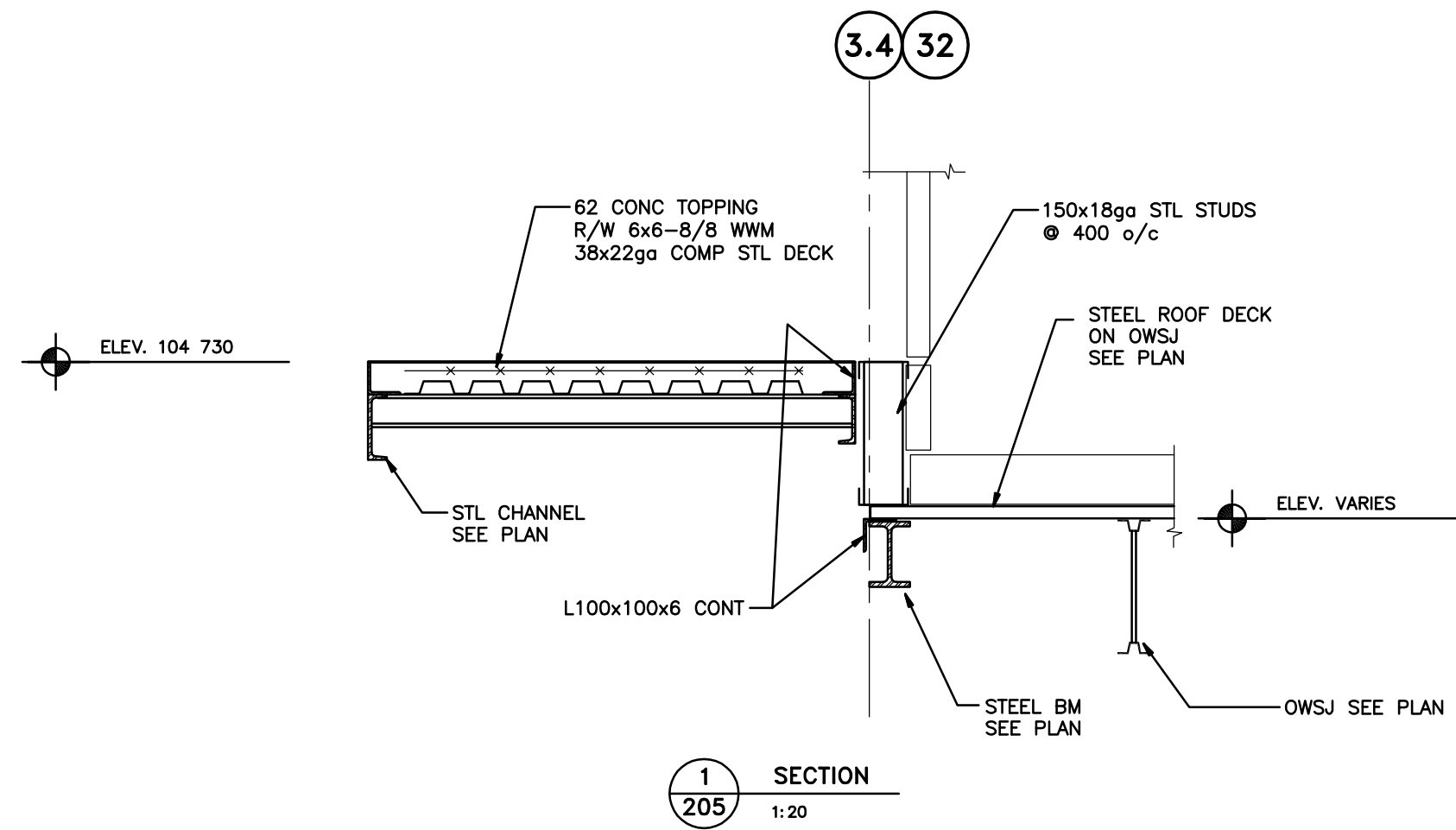
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
**STEEL ELEVATIONS
STAIR FRAMING PLANS**

Project number	W12009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW

Scale AS NOTED

REVISED / ISSUED / PLOTTED	DATE



No.	REVISION	DATE	BY
5	100% SUBMISSION	FEB. 28/13	FDW
4	100% SUBMISSION	DEC. 7/12	FDW
3	90% SUBMISSION	OCT. 5/12	FDW
2	ISSUED FOR FOUNDATION CONSTR.	JULY 26/12	FDW
1	ISSUED FOR FOUNDATION PERMIT	JULY 25/12	FDW
0	60% SUBMISSION	JULY 18/12	FDW

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CONSULTING ENGINEERS
345 WARSZAWA AVENUE
WINNIPEG, CANADA R3L 0L5
(204)621-0111 FAX: 204-488-8888
E-mail: don@wolfromeng.com

TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
SECTIONS & DETAILS

Project number	W12009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW

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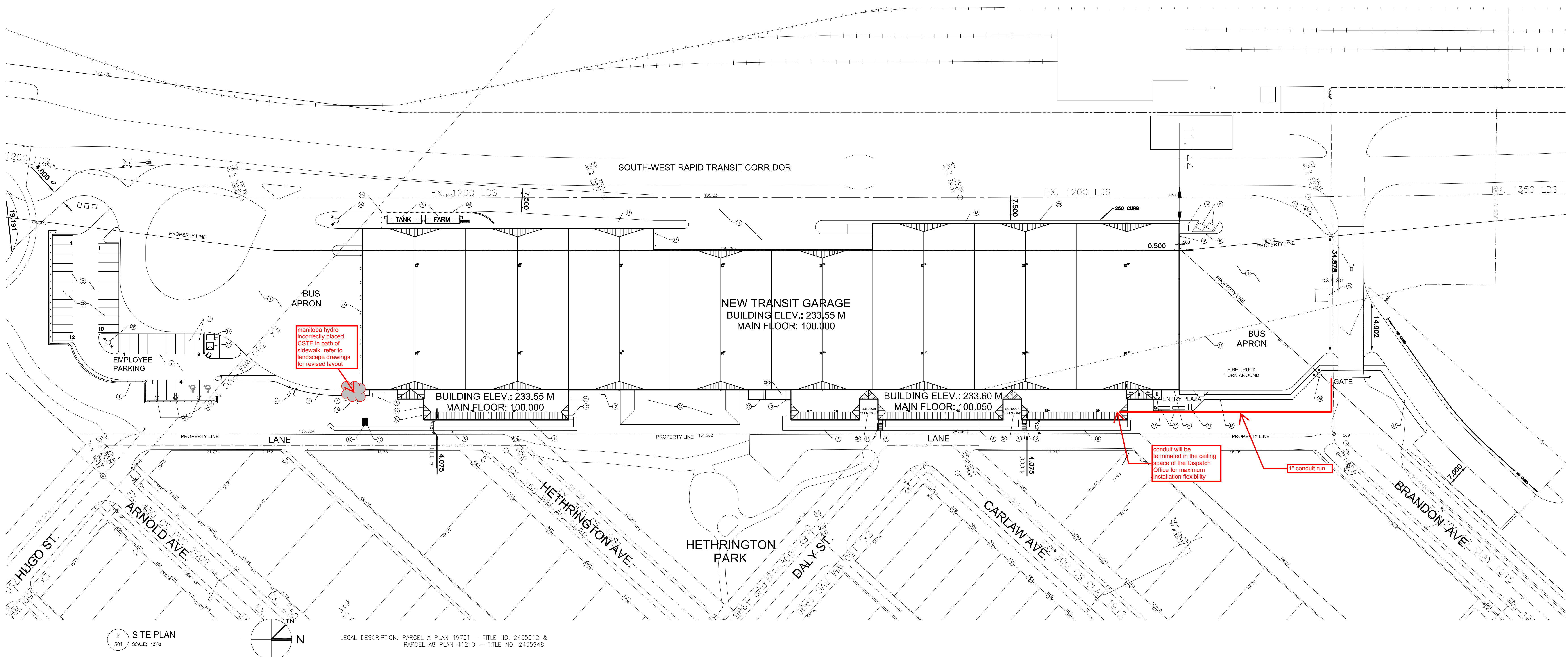
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:

EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO 0/1/2 OF CONC. BLOCK, CONCRETE FOUNDATION OR 0/1/2 OF STEEL STUD UNLESS OTHERWISE NOTED.
SHADING INDICATES SLOPED INSULATION.
WORK BY CENTURY PETROLEUM CONSTRUCTION IS UNDER NEGOTIATION

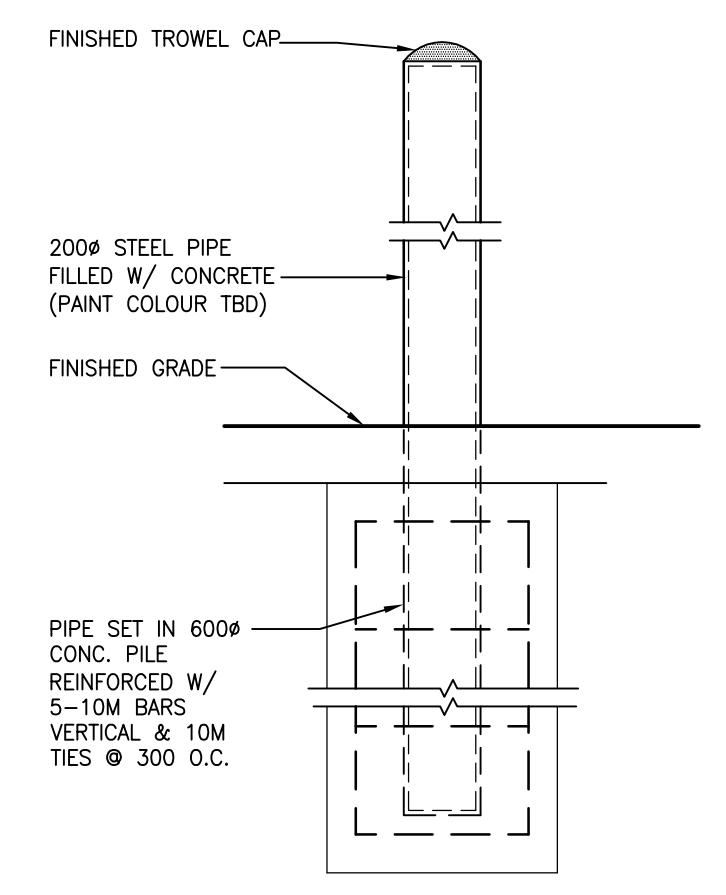
KEY NOTES:

- 1 CONCRETE BUS APRON RE: CIVIL
- 2 ASPHALT PARKING LOT RE: CIVIL
- 3 DIESEL FUEL TANKS, RE: CENTURY
- 4 PARKING FENCE, RE: LANDSCAPE
- 5 GABION RETAINING WALL, RE: LANDSCAPE
- 6 STAIRS, RE: LANDSCAPE
- 7 TRANSFORMER ON CONCRETE PAD, RE: ELECTRICAL
- 8 GENERATOR ON CONC PAD, RE: ELECTRICAL
- 9 820mm WATER MAIN INTO BUILDING, RE: MECHANICAL, RE: CIVIL
- 10 420mm WASTE WATER OUT OF BUILDING, RE: MECHANICAL, RE: CIVIL
- 11 GAS LINE TO BE RELOCATED, RE: CIVIL
- 12 CONCRETE PAD, RE: STRUCTURAL
- 13 CONCRETE SIDEWALK, RE: CIVIL
- 14 WASHER FLUID TANK, RE: CENTURY
- 15 TRASH & RECYCLE BIN, N.I.C.
- 16 SHAW CABLE PEDESTAL
- 17 BUS PARKING ASSIGNMENT PREFABRICATED KIOSK
- 18 STEEL PIPE BOLLARD, RE: DETAIL: 3/301
- 19 ENCLOSURE AROUND TRASH & RECYCLE BINS, RE: LANDSCAPE
- 20 STEEL GUARD RAIL, RE: LANDSCAPE
- 21 NATURAL GAS SERVICE INTO BUILDING, RE: CIVIL, RE: MECHANICAL
- 22 SMOKING SHELTER ON CONCRETE PAD, RE: 4/306.2, RE: STRUCTURAL
- 23 ENTRANCE CANSOPY
- 24 FIRE DEPARTMENT CONNECTION
- 25 PAINTED PARKING STALLS
- 26 MTS SERVICE PEDESTAL
- 27 CAR RECEPTACLE
- 28 PEDESTAL LIGHT, RE: ELECTRICAL, RE: STRUCTURAL
- 29 WEATHERPROOF PAD MOUNTED TRANSFORMER
- 30 BENCH, RE: LANDSCAPE
- 31 BIKE RACK, RE: LANDSCAPE
- 32 EXISTING VIA RAIL BUILDING TO BE REMOVED
- 33 CARPOOL PARKING
- 34 CONCRETE PAVERS, RE: LANDSCAPE
- 35 LANDSCAPE BERM, RE: CIVIL, RE: LANDSCAPE
- 36 VEHICLE GUARDRAIL/BARRIER, RE: CIVIL DRAWINGS

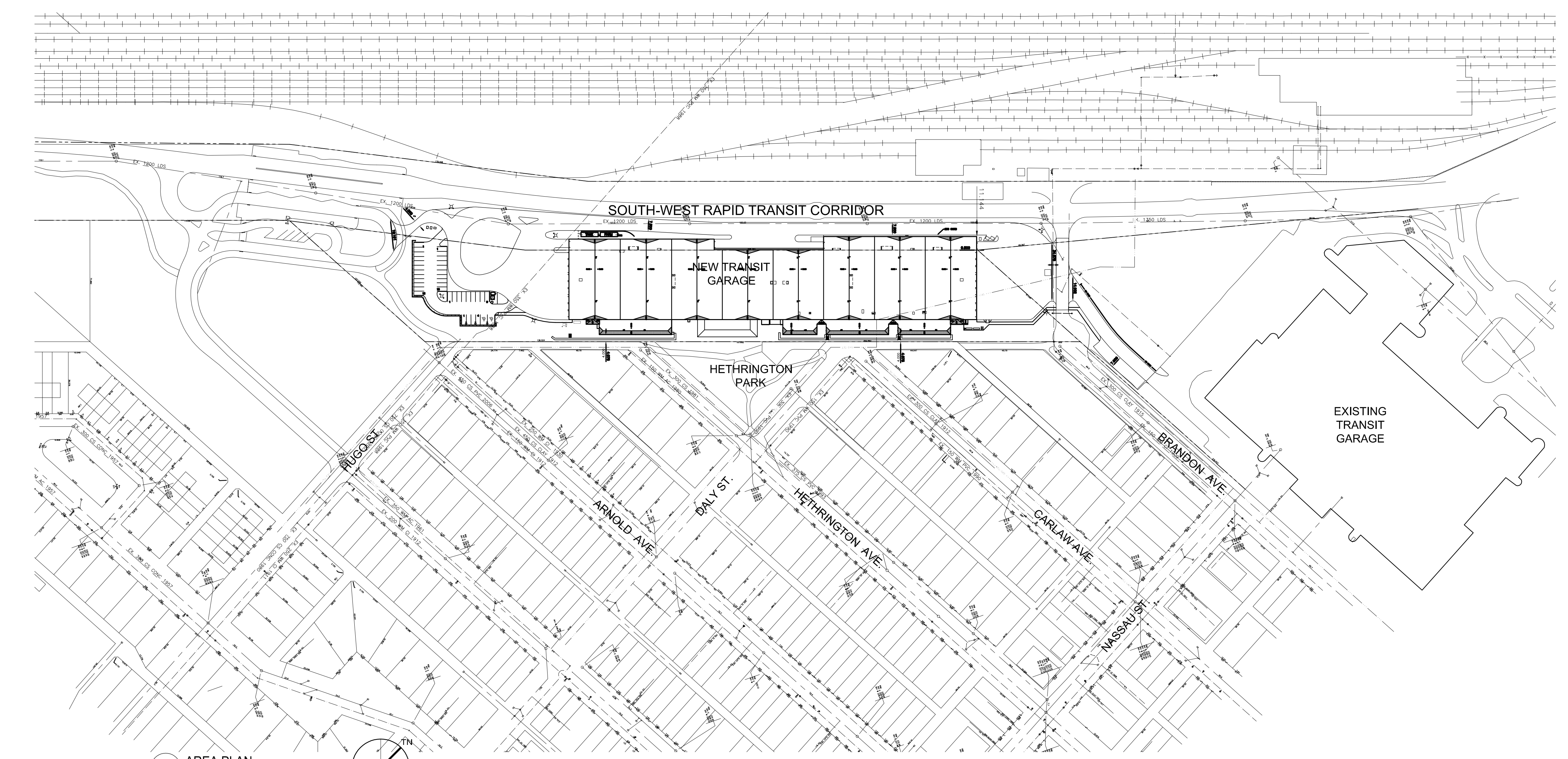


2 SITE PLAN
SCALE: 1:500

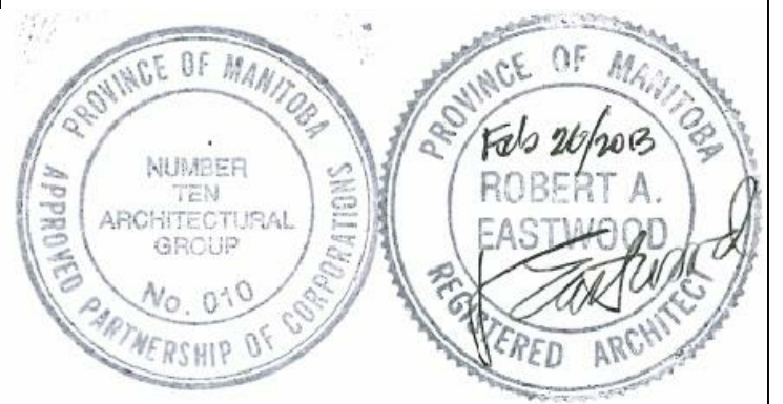
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3 TYP BOLLARD DETAIL
SCALE: 1:20



1 AREA PLAN
SCALE: 1:1000



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TRANSIT BUS PARKING & SERVICE GARAGE

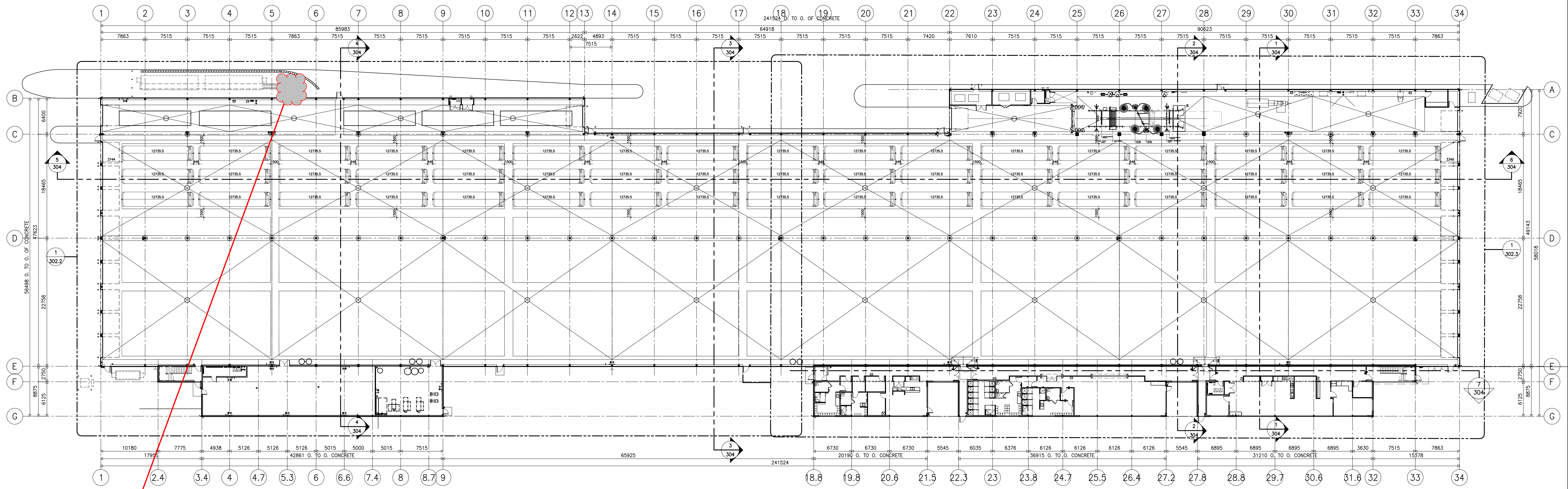
600 Brandon Ave, Winnipeg, Manitoba

SITE PLAN, AREA PLAN	
Project number	2012021
Date	DEC.7. 2012
Drawn by	M.S., R.C.
Checked by	R.E., K.F.

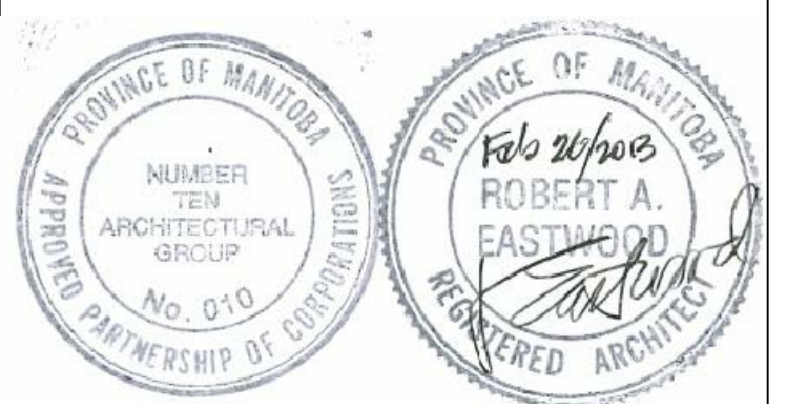
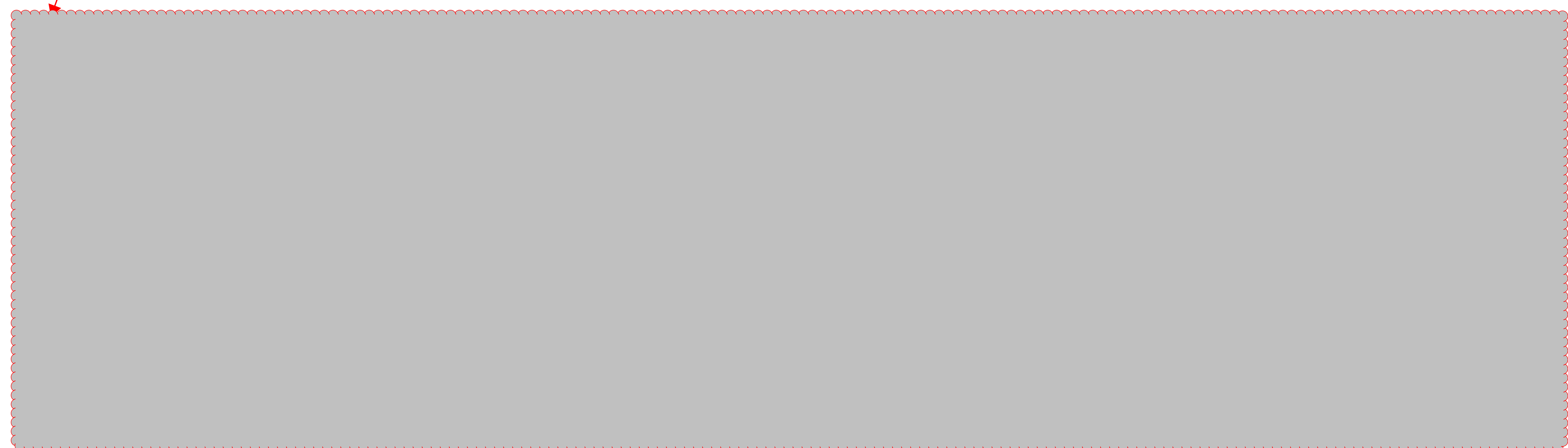
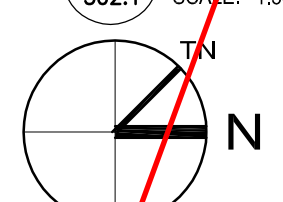
REVISION / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	19/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:

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1 OVERALL FLOOR PLAN
302.1 SCALE: 1:300



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architectural group

winnipeg MB regina SK victoria BC
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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

OVERALL FLOOR PLAN

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

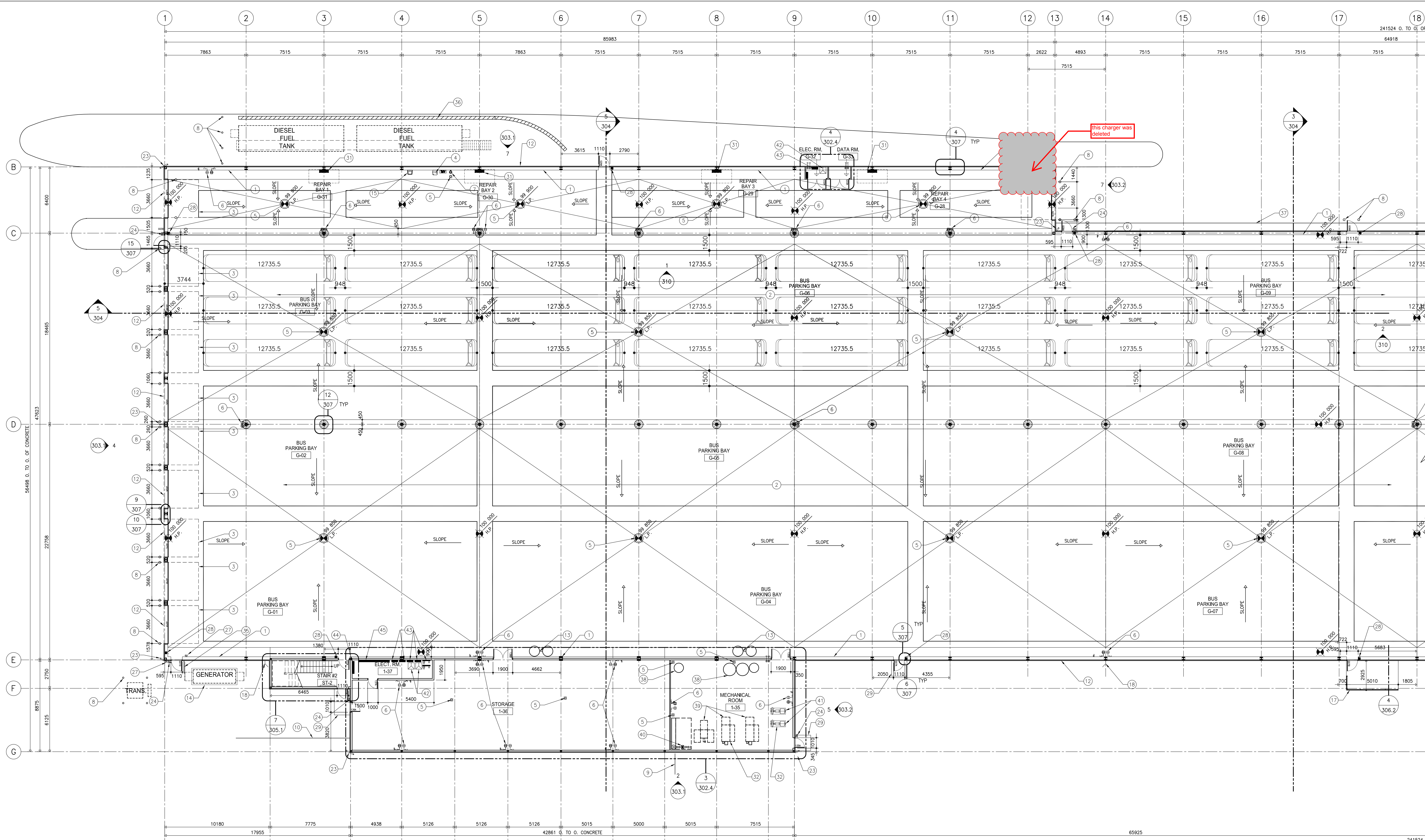
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:

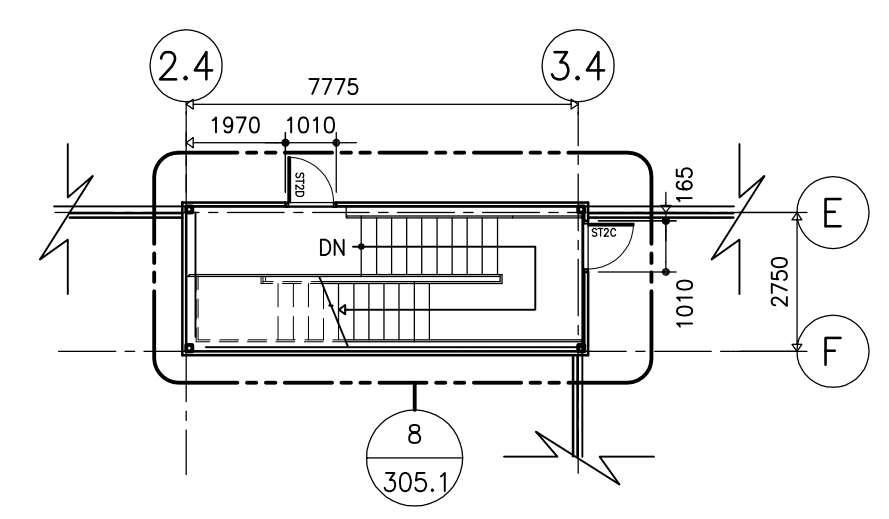
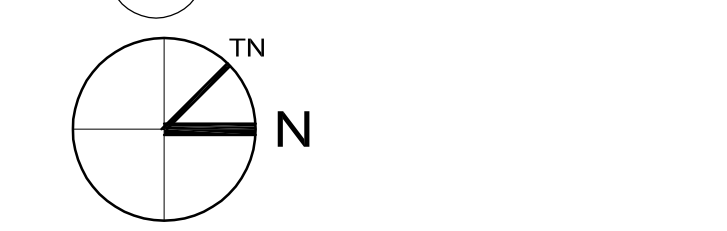
EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO 0/1/2 OF CONC. BLOCK, CONCRETE FOUNDATION OR O/F OF PLAN UNLESS OTHERWISE NOTED.
SHADING INDICATES SLOPED INSULATION.
WORK BY CENTURY PETROLEUM CONSTRUCTION IS UNDER NEGOTIATION.

KEY NOTES:

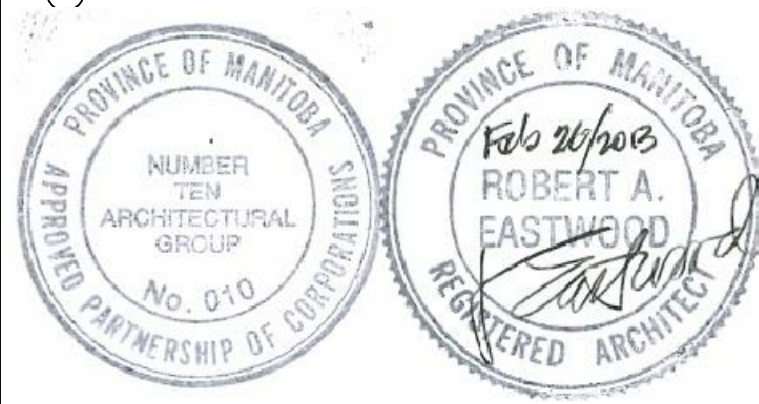
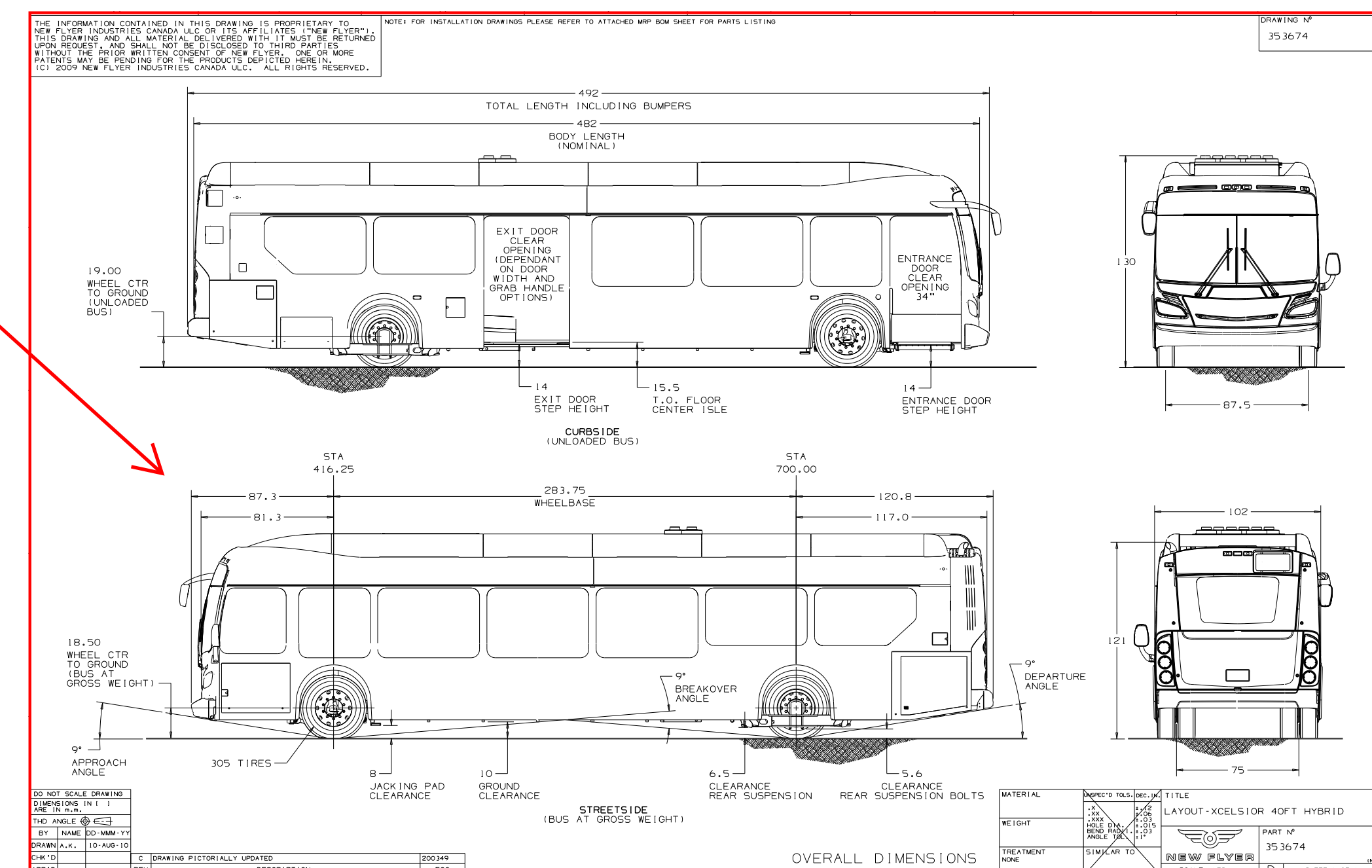
- 1 LINE OF CONCRETE UPSTAND, RE: STRUCTURAL
- 2 CONCRETE FLOOR SLOPED FOR DRAINAGE AS PER PLAN
- 3 LINE OF OVERHEAD DOOR & TRACK ABOVE (TYP)
- 4 DRINKING FOUNTAIN RE: MECHANICAL
- 5 FLOOR DRAIN
- 6 HOSE BIB, RE: MECHANICAL
- 7 EMERGENCY EYE WASH, RE: MECHANICAL
- 8 STEEL PIPE BOLLARD RE: 3/301
- 9 WATER MAIN INTO BUILDING RE: MECHANICAL, RE: CIVIL
- 10 WASTE WATER OUT OF BUILDING RE: MECHANICAL, RE: CIVIL
- 11 SLOPE CONCRETE UP 50mm TO DOOR SILL
- 12 CLERESTORY WINDOWS RE: ELEVATIONS
- 13 GRIT INTERCEPTOR PIT, RE: MECHANICAL
- 14 GENERATOR C/W CONCRETE PAD, RE: STRUCTURAL, ELECTRICAL
- 15 HAND SINK RE: MECHANICAL
- 16 FUEL STATION
- 17 SMOKING SHELTER ON CONCRETE PAD RE: STRUCTURAL
- 18 EXTERIOR HOSE BIB
- 19 WINDSHIELD WASHER FLUID TANK, RE: CENTURY
- 20 DEF TANK, RE: CENTURY
- 21 OIL TANK, RE: CENTURY
- 22 FIRE DEPARTMENT CONNECTION
- 23 CCTV SECURITY CAMERA
- 24 CARD READER
- 25 VAULT HOUSING AND MOBILE BIN (NIC)
- 26 CAR WASH CURTAIN
- 27 DOOR ACTUATOR
- 28 FIRE ALARM PULL STATION
- 29 CONCRETE PAD AT EXIT DOOR
- 30 RECESS TOPPING TO ACCEPT PAN FOR WALK OFF MAT
- 31 ELECTRIC BUS CHARGER (MB HYDRO PCN)
- 32 PROVIDE 150mm HIGH CONCRETE HOUSE KEEPING PAD AS REQUIRED
- 33 5 HOSE REEL CABINET, RE: CENTURY
- 34 GAS PUMP, RE: CENTURY
- 35 GUARDRAIL, RE: LANDSCAPE
- 36 VEHICLE GUARDRAIL, RE: CIVIL DRAWINGS
- 37 PAINTED SIDEWALK
- 38 HWT, RE: MECH
- 39 BOILERS, RE: MECH
- 40 SPRINKLER TREE, RE: MECH
- 41 PUMPS, RE: MECH
- 42 CEILING MOUNTED TRANSFORMER
- 43 ELECTRICAL PANELS
- 44 TRANSFER SWITCH
- 45 MAIN DISTRIBUTION



1 PART. FLOOR PLAN SOUTH
SCALE: 1:150



2 STAIR #2 UPPER FLOOR PLAN
SCALE: 1:150



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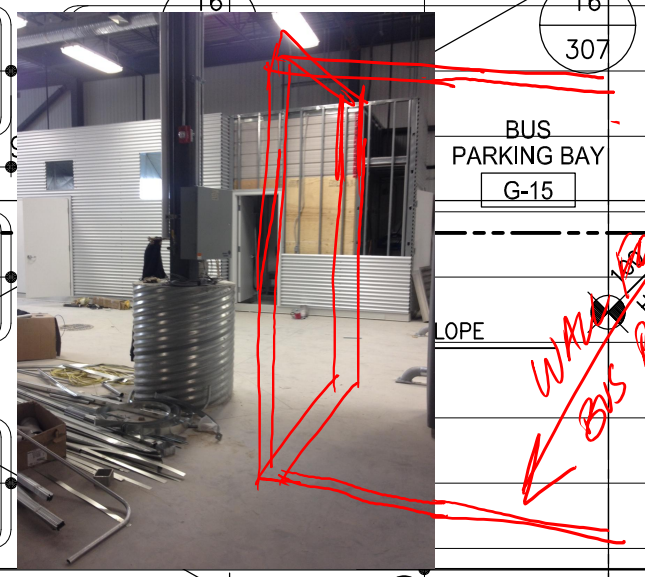
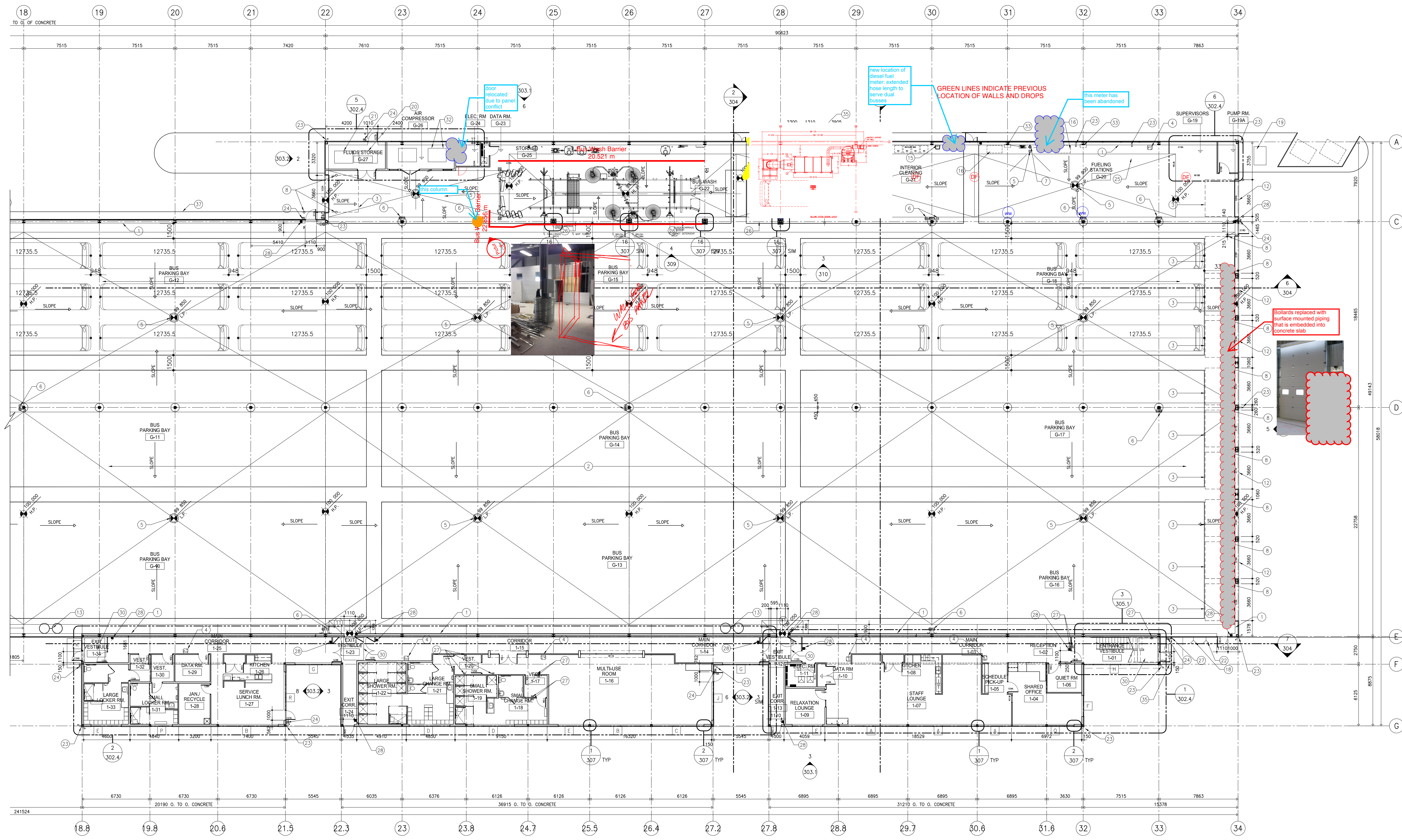
PART. FLOOR PLAN SOUTH

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

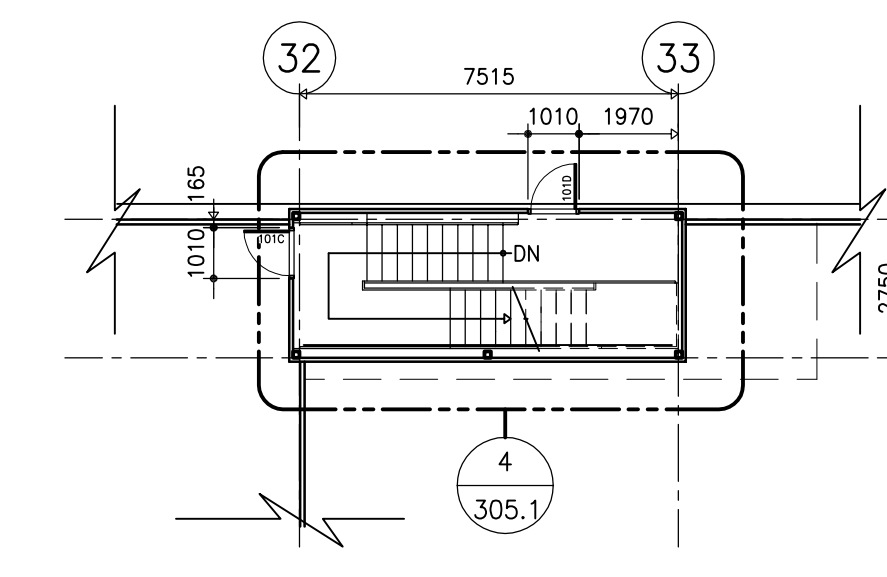
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

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- KEY NOTES:**
- LINE OF CONCRETE UPSTAND, RE: STRUCTURAL
 - CONCRETE FLOOR SLOPED FOR DRAINAGE AS PER PLAN
 - LINE OF OVERHEAD DOOR & TRACK ABOVE (TYP)
 - DRINKING FOUNTAIN RE: MECHANICAL
 - FLOOR DRAIN
 - HOSE BIB, RE: MECHANICAL
 - EMERGENCY EYE WASH, RE: MECHANICAL
 - STEEL PIPE BOLLARD RE: 3/301
 - WATER MAIN INTO BUILDING RE: MECHANICAL RE: CIVIL
 - WASTE WATER OUT OF BUILDING RE: MECHANICAL RE: CIVIL
 - SLOPE CONCRETE UP 50mm TO DOOR SILL
 - CLERESTORY WINDOWS RE: ELEVATIONS
 - GRIT INTERCEPTOR PIT, RE: MECHANICAL
 - GENERATOR C/W CONCRETE PAD, RE: STRUCTURAL ELECTRICAL
 - HAND SINK RE: MECHANICAL
 - FUEL STATION
 - SMOKING SHELTER ON CONCRETE PAD RE: STRUCTURAL
 - EXTERIOR HOSE BIB
 - WINDSHIELD WASHER FLUID TANK, RE: CENTURY
 - DEF TANK, RE: CENTURY
 - OIL TANK, RE: CENTURY
 - FIRE DEPARTMENT CONNECTION
 - CCTV SECURITY CAMERA
 - CARD READER
 - VAULT HOUSING AND MOBILE BIN (NIC)
 - CAR WASH CURTAIN
 - DOOR ACTUATOR
 - FIRE ALARM PULL STATION
 - CONCRETE PAD AT EXIT DOOR
 - RECESS TOPPING TO ACCEPT PAN FOR WALK OFF MAT
 - ELECTRIC BUS CHARGER (MB HYDRO PCN)
 - PROVIDE 150mm HIGH CONCRETE HOUSE KEEPING PAD AS REQUIRED
 - 5 HOSE REEL CABINET, RE: CENTURY
 - GAS PUMP, RE: CENTURY
 - GUARDRAIL, RE: LANDSCAPE
 - VEHICLE GUARDRAIL, RE: CIVIL DRAWINGS
 - PAINTED SIDEWALK
 - HWT, RE: MECH
 - BOILERS, RE: MECH
 - SPRINKLER TREE, RE: MECH
 - PUMPS, RE: MECH
 - CEILING MOUNTED TRANSFORMER
 - ELECTRICAL PANELS
 - TRANSFER SWITCH
 - MAIN DISTRIBUTION



1 PART. FLOOR PLAN NORTH
 302.3 SCALE: 1:150



2 STAIR #1 UPPER FLOOR PLAN
 302.3 SCALE: 1:150

Z:\scans\stamp2.jpg

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TRANSIT BUS PARKING & SERVICE GARAGE
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PART. FLOOR PLAN NORTH

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 80% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:

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WORK BY CENTURY PETROLEUM CONSTRUCTION IS UNDER NEGOTIATION

KEY NOTES:

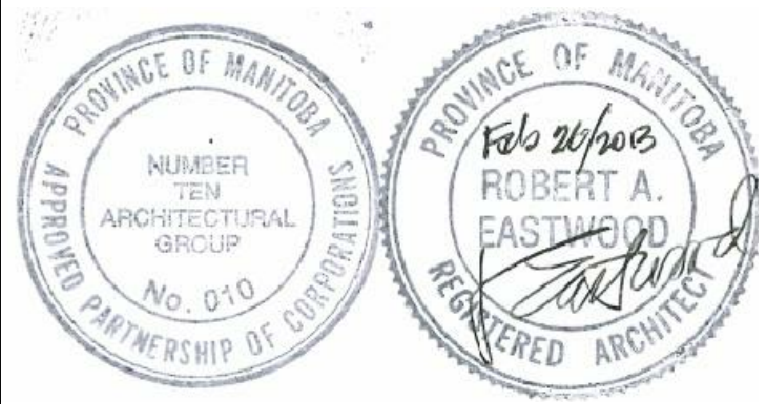
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- 2 CONCRETE FLOOR SLOPED FOR DRAINAGE AS PER PLAN
- 3 LINE OF OVERHEAD DOOR & TRACK ABOVE (TYP)
- 4 DRINKING FOUNTAIN RE: MECHANICAL
- 5 FLOOR DRAIN
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- 7 EMERGENCY EYE WASH, RE: MECHANICAL
- 8 STEEL PIPE BOLLARD RE: 3/301
- 9 WATER MAIN INTO BUILDING RE: MECHANICAL RE: CIVIL
- 10 WASTE WATER OUT OF BUILDING RE: MECHANICAL RE: CIVIL
- 11 SLOPE CONCRETE UP 50mm TO DOOR SILL
- 12 CLERESTORY WINDOWS RE: ELEVATIONS
- 13 GRIT INTERCEPTOR FIT, RE: MECHANICAL
- 14 GENERATOR C/W CONCRETE PAD, RE: STRUCTURAL ELECTRICAL
- 15 HAND SINK RE: MECHANICAL
- 16 FUEL STATION
- 17 SMOKING SHELTER ON CONCRETE PAD RE: STRUCTURAL
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- 44 TRANSFER SWITCH
- 45 MAIN DISTRIBUTION

BUS WASH AREA SUPERCEDED BY PREVIOUS PAGE



1 PART. FLOOR PLAN NORTH
SCALE: 1:150

2 STAIR #1 UPPER FLOOR PLAN
SCALE: 1:150



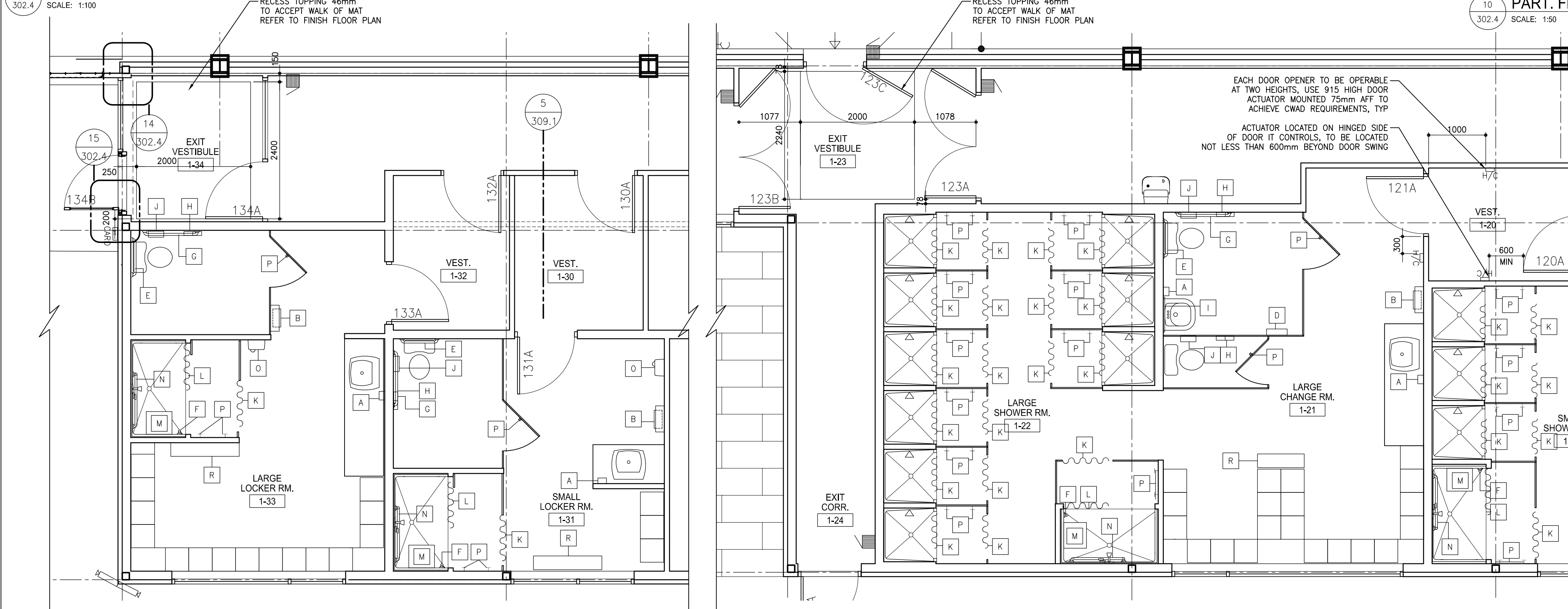
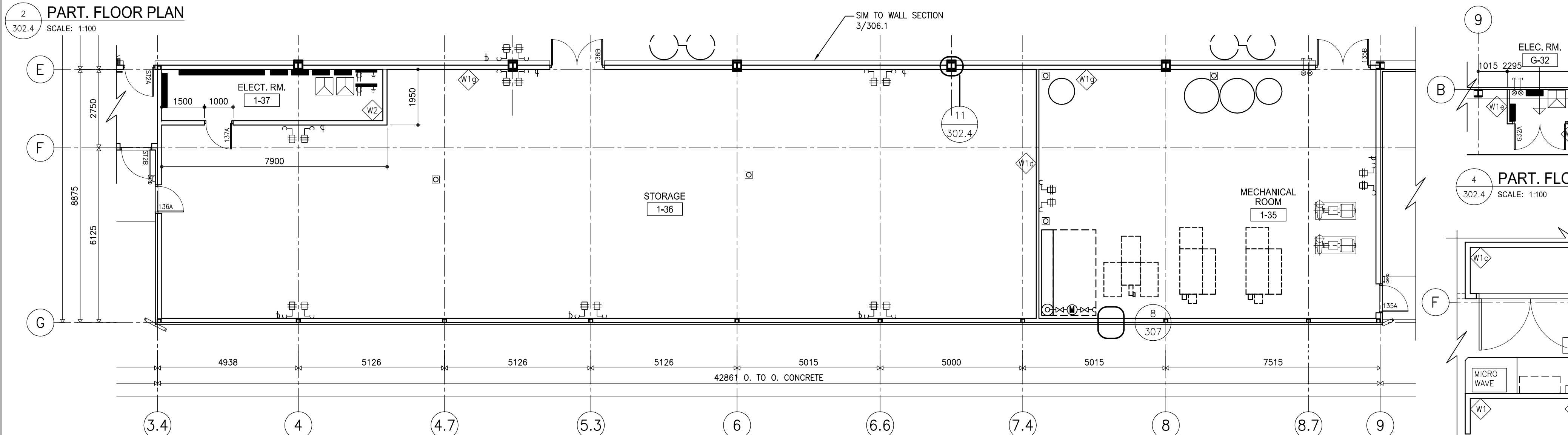
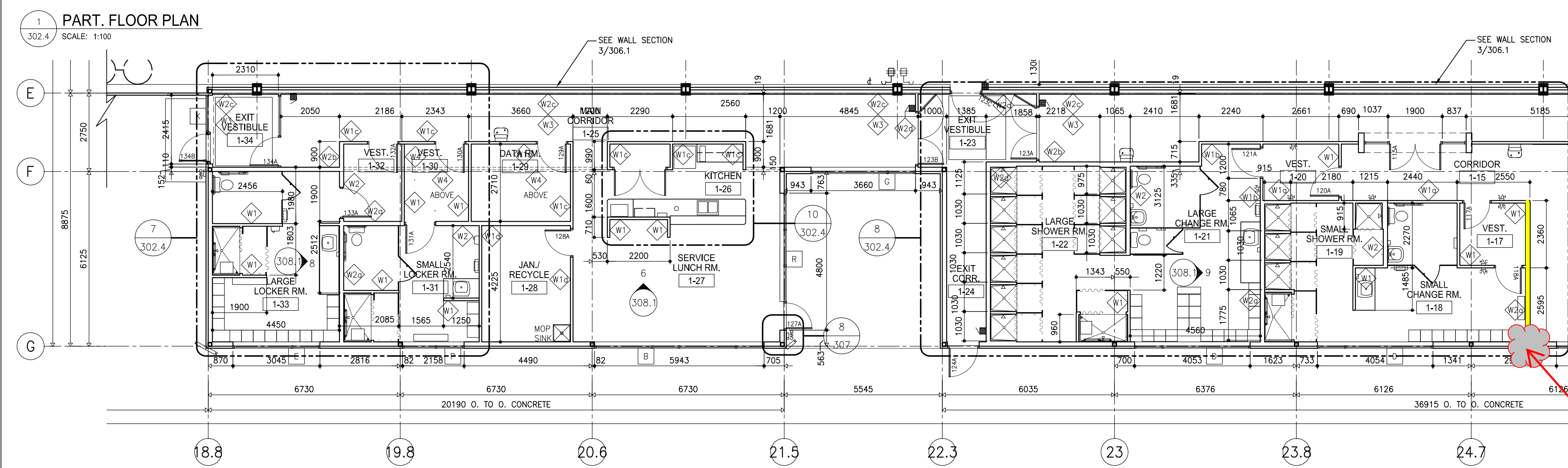
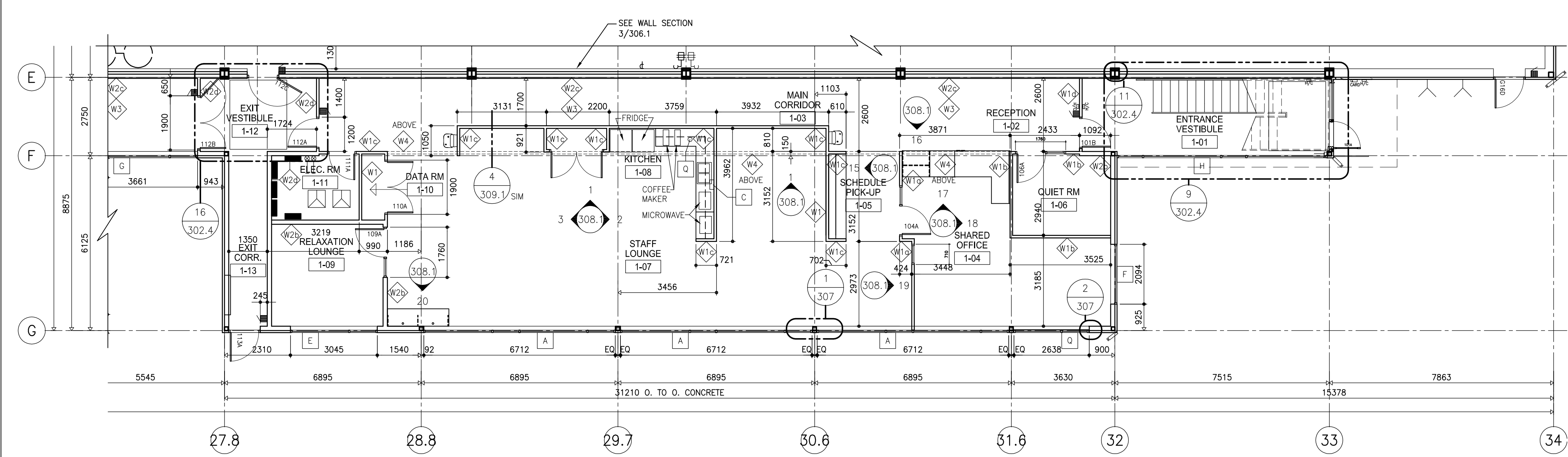
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PART. FLOOR PLAN NORTH

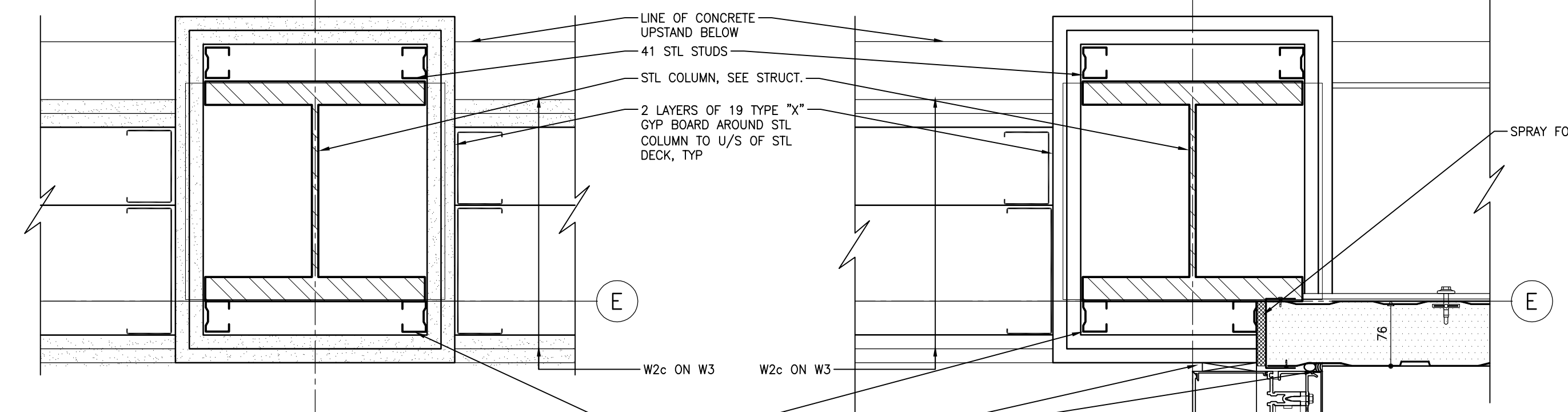
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Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.



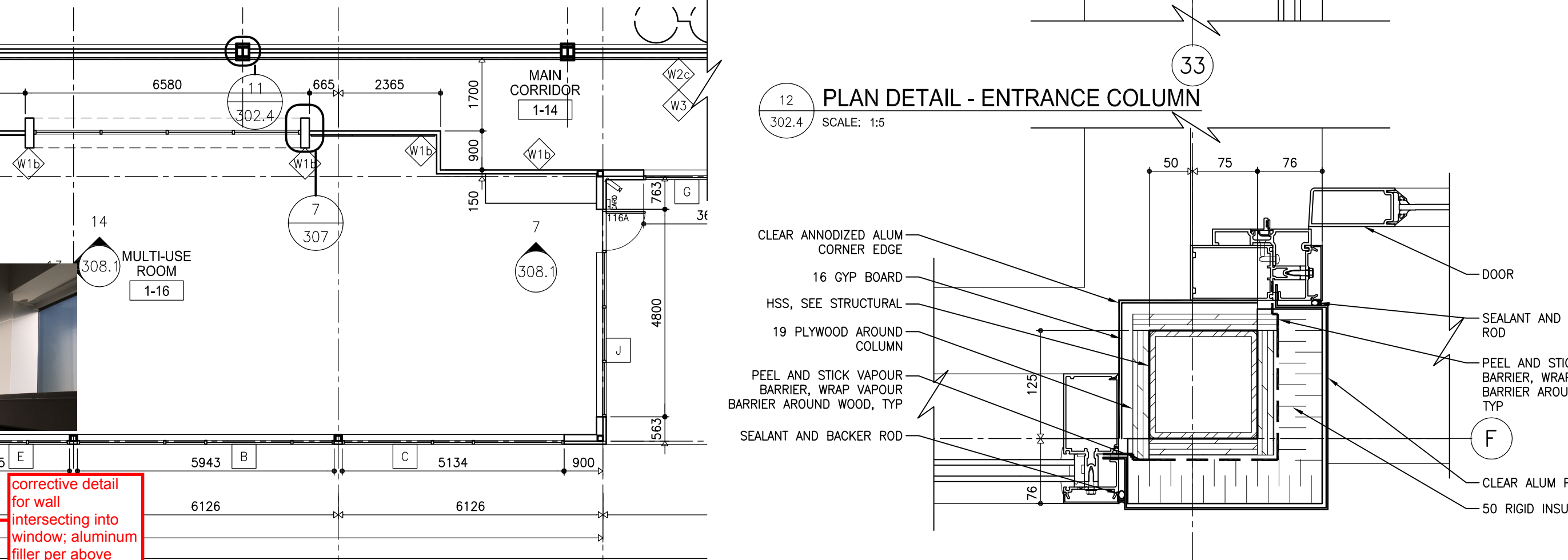
WASHROOM SYMBOL LEGEND

A	SOAP DISPENSER, WALL MOUNTED, NIC TOP OF UNIT MOUNTED AT 1290mm A.F.F.	G	GRAB BAR - 914mm (36") L. BESIDE TOILET; MOUNTED AT 850mm A.F.F. HORIZONTALLY AND CENTERED WITH THE FRONT EDGE OF THE TOILET.
B	CLOTH ROLL TOWEL DISPENSER, WALL MOUNTED; NIC	H	TOILET PAPER DISPENSER - 2 ROLL MOUNT BASE AT 600mm A.F.F. AND SIDE EDGE NO FURTHER THAN 300mm FROM FRONT EDGE OF TOILET
C	PAPER TOWEL DISPENSER, SURFACE MOUNT BASE OF UNIT AT 1170mm (46") A.F.F.	I	MIRROR - 610mm x 914mm (24" x 36") FOR UTR MOUNT WITH BASE AT 1000mm A.F.F.
D	PAPER TOWEL DISP/WASTE RECEPTACLE, SURFACE MOUNT; FOR UTR NIC. TOP OF UNIT MOUNTED AT 1530mm A.F.F.	J	FEMININE NAPKIN DISPOSAL - SURFACE MOUNT TOP AT 760mm A.F.F.
E	GRAB BAR - 610mm (24") L. CENTERED BEHIND TOILET AND MOUNTED AT 915mm A.F.F.	K	SHOWER ROD-1, HOOKS-7, CURTAIN -1 (70" W) SHOWER ROD-1, HOOKS-12, CURTAIN -1 (70" W)
F	GRAB BAR - 762mm (30") L. BESIDE TOILET; MOUNTED VERTICALLY WITH THE LOWER EDGE 60mm ABOVE THE HORIZONTAL GRAB BAR AND CENTERED VERTICALLY 150mm PAST THE FRONT EDGE OF THE TOILET. IN SHOWER STALL; INSTALLED VERTICALLY BESIDE SHOWER SEAT WITH BASE AT 750mm A.F.F.	L	FOLD DOWN SHOWER SEAT - SEAT HEIGHT AT 450mm A.F.F.
		M	L-SHAPED GRAB BAR 36" x 30" (CUSTOM)
		N	ELECTRIC HAND DRYER - SEE ELECTRICAL
		O	COLLAPSIBLE COAT HOOK, 1200mm O.C. FOR BARRIER FREE WC STALLS/SHOWERS. 1600mm O.C. ALL OTHER LOCATIONS
		P	TRASH RING MANAGER
		R	BENCH

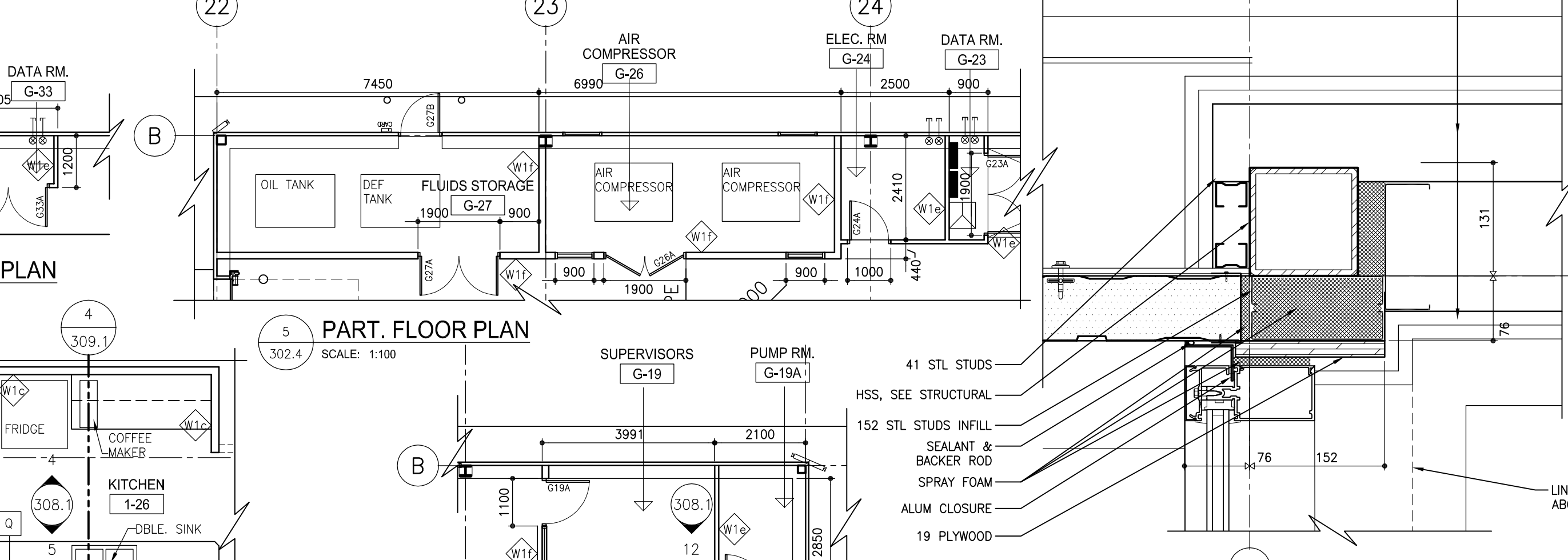
FOR FURTHER ACCESSORIES REFER TO 308.1



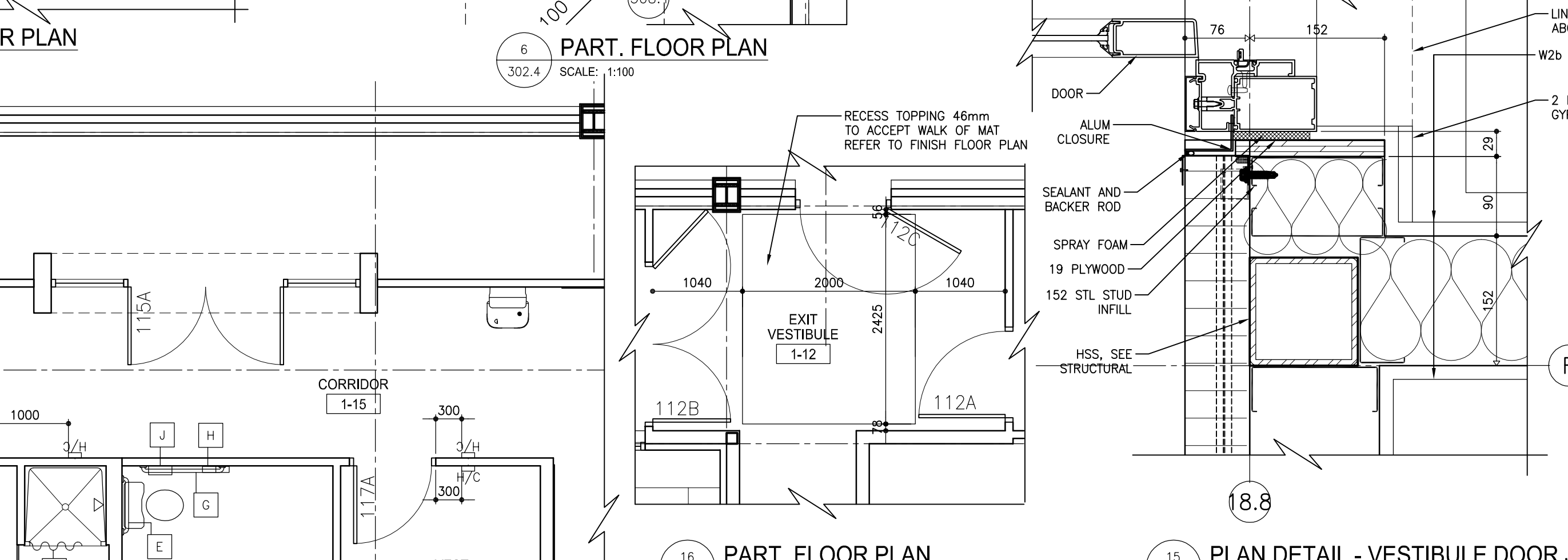
UL Des X528 2HR RATING PLAN DETAIL - TYPICAL OFFICE CORRIDOR COLUMN



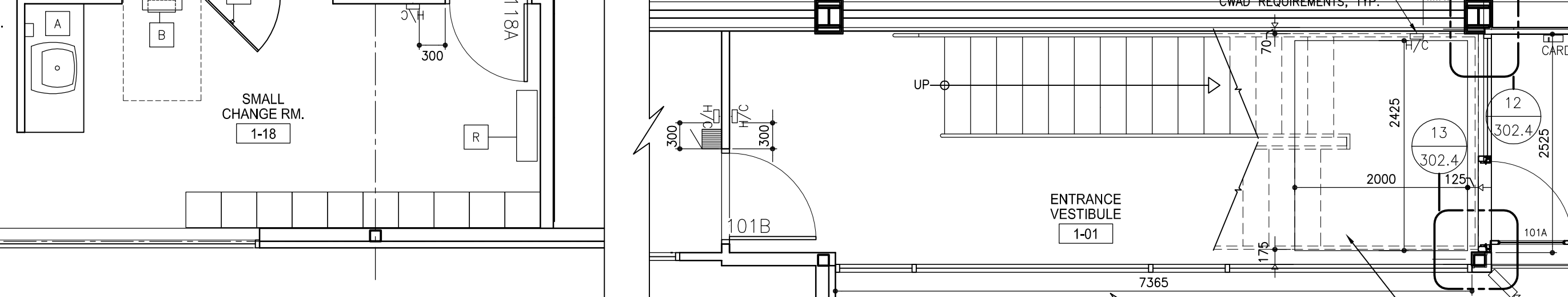
PLAN DETAIL - ENTRANCE COLUMN



PLAN DETAIL - ENTRANCE DOOR JAMB



PLAN DETAIL - VESTIBULE COLUMN



PLAN DETAIL - VESTIBULE DOOR JAMB

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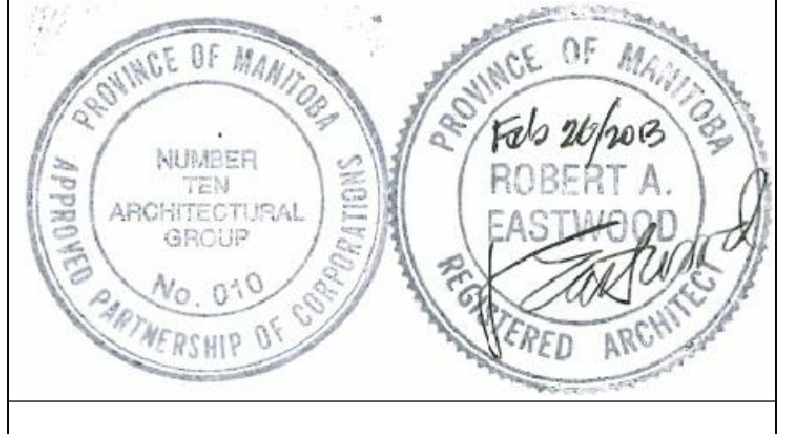
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 80% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:
EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO O/C OF CONC. BLOCK, CONCRETE FOUNDATION OR O/C OF STEEL STUD UNLESS OTHERWISE NOTED.

INTERIOR WALL TYPES

- W1 16 G.W.B.
- W2 92 STEEL STUDS @ 400 O.C.
- W3 16 G.W.B.
- W4 92 STEEL STUDS @ 400 O.C.
- W5 89 SOUND BATT INSULATION
- W6 16 G.W.B.
- W7 16 G.W.B.
- W8 92 STEEL STUDS @ 400 O.C.
- W9 89 SOUND BATT INSULATION
- W10 16 G.W.B.
- W11 16 G.W.B.
- W12 92 STEEL STUDS @ 400 O.C.
- W13 89 SOUND BATT INSULATION
- W14 16 G.W.B.
- W15 92 STEEL STUDS @ 400 O.C.
- W16 89 SOUND BATT INSULATION
- W17 16 G.W.B.
- W18 92 STEEL STUDS @ 400 O.C.
- W19 89 SOUND BATT INSULATION
- W20 16 G.W.B.
- W21 92 STEEL STUDS @ 400 O.C.
- W22 89 SOUND BATT INSULATION
- W23 16 G.W.B.
- W24 92 STEEL STUDS @ 400 O.C.
- W25 89 SOUND BATT INSULATION
- W26 16 G.W.B.
- W27 92 STEEL STUDS @ 400 O.C.
- W28 89 SOUND BATT INSULATION
- W29 16 G.W.B.
- W30 92 STEEL STUDS @ 400 O.C.
- W31 89 SOUND BATT INSULATION
- W32 16 G.W.B.
- W33 92 STEEL STUDS @ 400 O.C.
- W34 89 SOUND BATT INSULATION
- W35 16 G.W.B.
- W36 92 STEEL STUDS @ 400 O.C.
- W37 89 SOUND BATT INSULATION
- W38 16 G.W.B.
- W39 92 STEEL STUDS @ 400 O.C.
- W40 89 SOUND BATT INSULATION
- W41 16 G.W.B.
- W42 92 STEEL STUDS @ 400 O.C.
- W43 89 SOUND BATT INSULATION
- W44 16 G.W.B.
- W45 92 STEEL STUDS @ 400 O.C.
- W46 89 SOUND BATT INSULATION
- W47 16 G.W.B.
- W48 92 STEEL STUDS @ 400 O.C.
- W49 89 SOUND BATT INSULATION
- W50 16 G.W.B.
- W51 92 STEEL STUDS @ 400 O.C.
- W52 89 SOUND BATT INSULATION
- W53 16 G.W.B.
- W54 92 STEEL STUDS @ 400 O.C.
- W55 89 SOUND BATT INSULATION
- W56 16 G.W.B.
- W57 92 STEEL STUDS @ 400 O.C.
- W58 89 SOUND BATT INSULATION
- W59 16 G.W.B.
- W60 92 STEEL STUDS @ 400 O.C.
- W61 89 SOUND BATT INSULATION
- W62 16 G.W.B.
- W63 92 STEEL STUDS @ 400 O.C.
- W64 89 SOUND BATT INSULATION
- W65 16 G.W.B.
- W66 92 STEEL STUDS @ 400 O.C.
- W67 89 SOUND BATT INSULATION
- W68 16 G.W.B.
- W69 92 STEEL STUDS @ 400 O.C.
- W70 89 SOUND BATT INSULATION
- W71 16 G.W.B.
- W72 92 STEEL STUDS @ 400 O.C.
- W73 89 SOUND BATT INSULATION
- W74 16 G.W.B.
- W75 92 STEEL STUDS @ 400 O.C.
- W76 89 SOUND BATT INSULATION
- W77 16 G.W.B.
- W78 92 STEEL STUDS @ 400 O.C.
- W79 89 SOUND BATT INSULATION
- W80 16 G.W.B.
- W81 92 STEEL STUDS @ 400 O.C.
- W82 89 SOUND BATT INSULATION
- W83 16 G.W.B.
- W84 92 STEEL STUDS @ 400 O.C.
- W85 89 SOUND BATT INSULATION
- W86 16 G.W.B.
- W87 92 STEEL STUDS @ 400 O.C.
- W88 89 SOUND BATT INSULATION
- W89 16 G.W.B.
- W90 92 STEEL STUDS @ 400 O.C.
- W91 89 SOUND BATT INSULATION
- W92 16 G.W.B.
- W93 92 STEEL STUDS @ 400 O.C.
- W94 89 SOUND BATT INSULATION
- W95 16 G.W.B.
- W96 92 STEEL STUDS @ 400 O.C.
- W97 89 SOUND BATT INSULATION
- W98 16 G.W.B.
- W99 92 STEEL STUDS @ 400 O.C.
- W100 89 SOUND BATT INSULATION

NOTES:
WHERE NO WALL TYPE IS DESIGNATED USE W2 AND CONFIRM WITH ARCHITECT.
CONSULT REFLECTED CEILING PLAN TO DETERMINE IF FIRE RATING IS APPLICABLE TO THIS WALL.
REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL FINISHES & PARTITION CONSTRUCTION REQUIREMENTS.
CALK & GRIPTOR AROUND PERIMETER AND ALL PENETRATIONS FOR ALL FIRE RATED PARTITIONS.
PROVIDE BLOCKING IN WALLS FOR MILKROOM WASHROOM ACCESSORIES & EQUIPMENT AS REQUIRED.



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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave., Winnipeg, Manitoba

STAFF AREA PLANS

Project number	2012021
Date	JULY 3, 2012
Drawn by	M.S., R.C.
Checked by	R.E.

Scale AS NOTED **302.4**

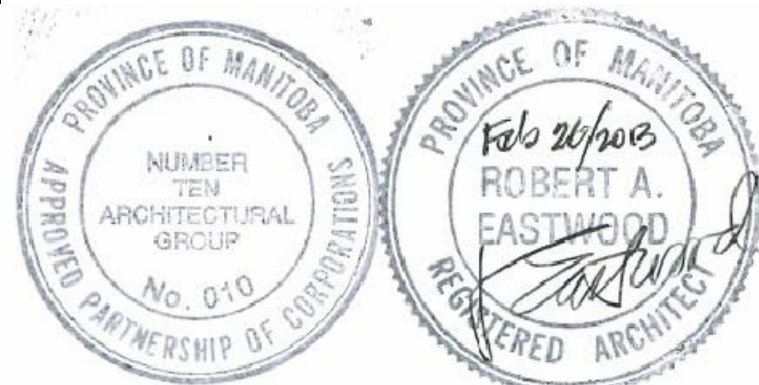
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ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:
EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO O/F OF CONC. BLOCK CONCRETE FOUNDATION OR O/F OF STEEL STUD UNLESS OTHERWISE NOTED.
SHADING INDICATES SLOPED INSULATION.

- REFLECTED CEILING PLAN LEGEND**
- 3000 Ceiling Height (Above Finished Floor)
 - BL-A Fluorescent luminaire, 'B1-A' denotes panel circuit No. and switch.
 - NA Night light fluorescent luminaire.
 - EM Emergency lighting fluorescent luminaire.
 - Ceiling mounted luminaire.
 - Exterior Light Fixture

- FIRE SEPARATIONS**
- 1 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONST'N)
 - 2 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONST'N)
 - TO U/S OF STRUC OR SOUND RATED WALLS CONSTRUCTED TO U/S CEILING W/ SOUND Baffle ABOVE (REFER TO FLOOR PLANS FOR WALLTYPE CONSTRUCTION)
 - 3/4 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONSTRUCTION)

- KEY NOTES:**
- 1 EXPOSED STEEL DECK AND O.W.S.J.
 - 2 LINE OF AIR CURTAIN ABOVE DOOR, TYP
 - 3 LINE OF OVER-HEAD DOOR & TRACK ABOVE, TYP
 - 4 ENCLOSED ACRYLIC SHOWER STALL C/W WATER PROOF FIXTURE
 - 5 STEEL BEAM



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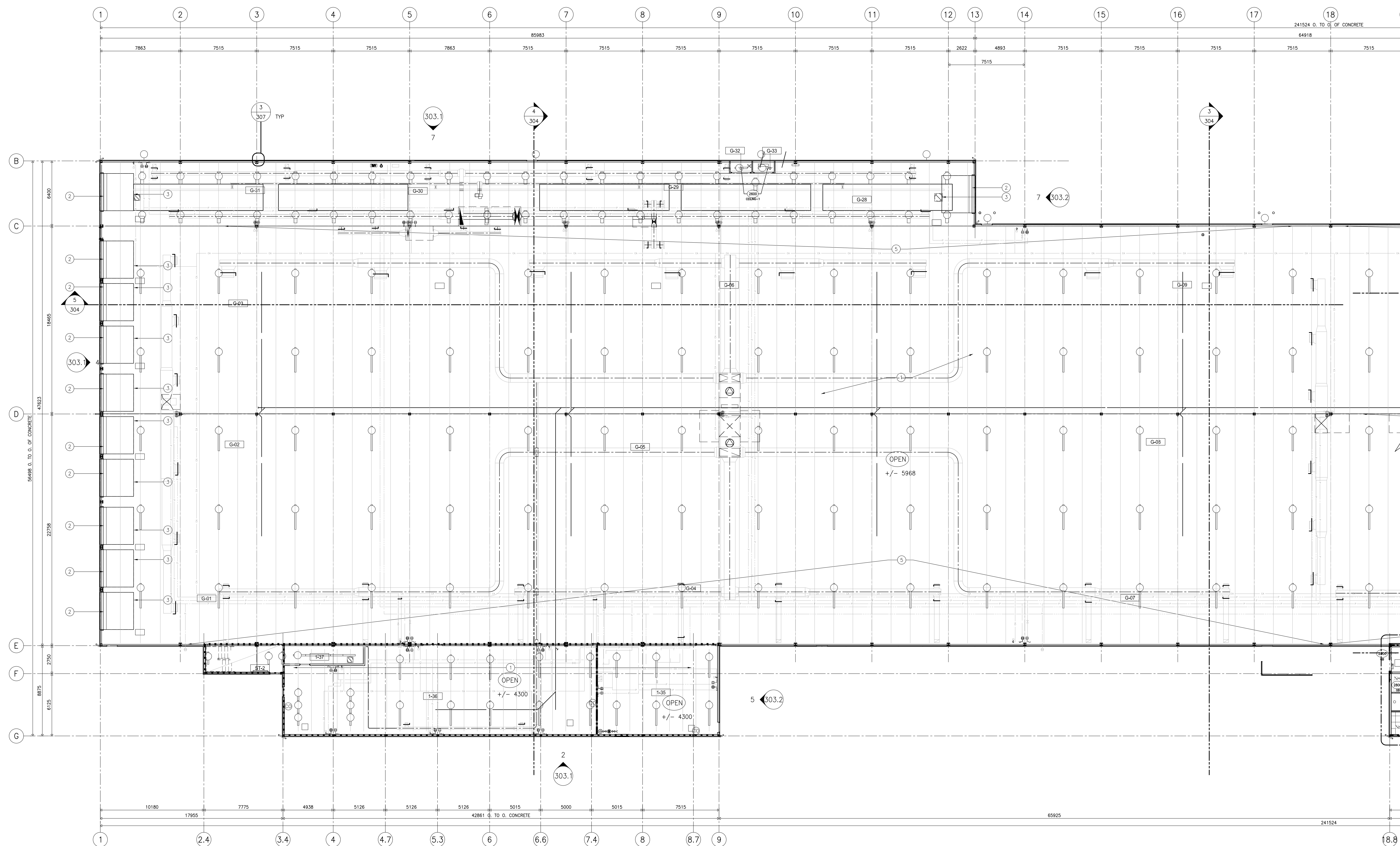
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

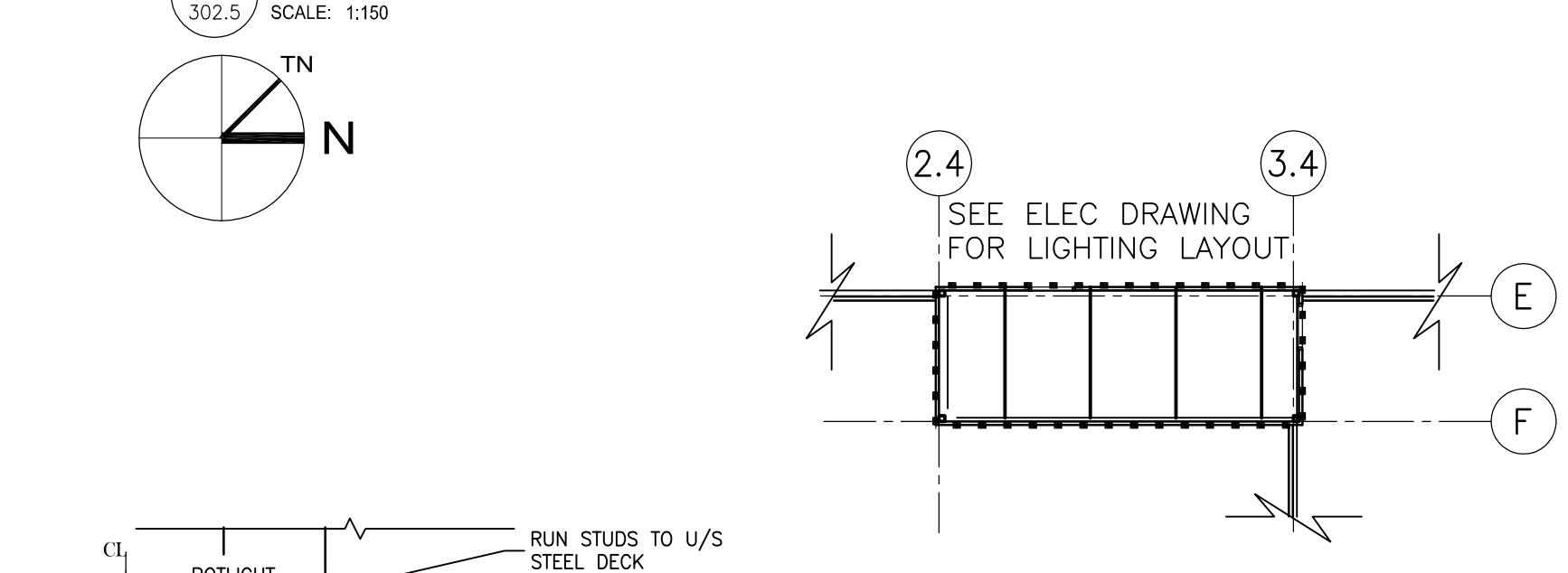
PART. REFLECTED CEILING PLAN SOUTH

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

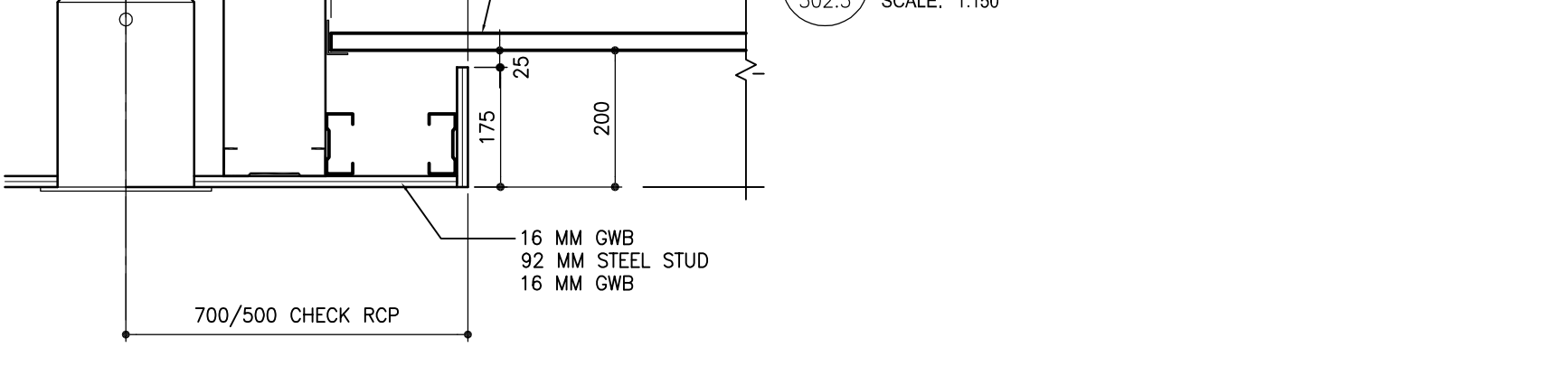
Scale AS NOTED **302.5**



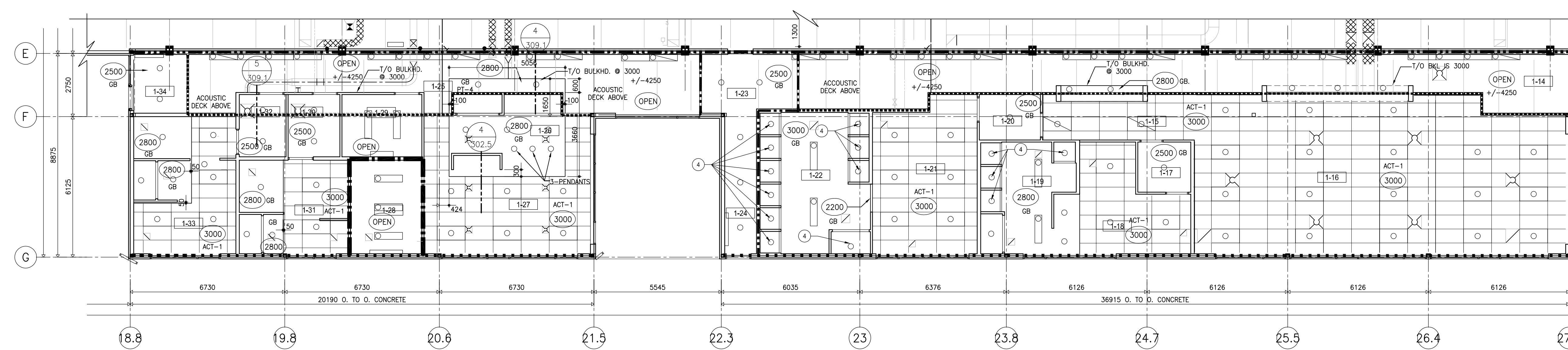
1 PART. REFLECTED CEILING PLAN SOUTH
SCALE: 1:150



2 PART. REFLECTED CEILING FLOOR PLAN
SCALE: 1:150



4 TYPICAL BULKHEAD SECTION
SCALE: 1:10



3 REFLECTED CEILING PART. PLAN
SCALE: 1:100

P:\2012\2012021 - City of Winnipeg Transit Garage\3.0 Concept Documents\Working Drawings\302.5-RCP.dwg

REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
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ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

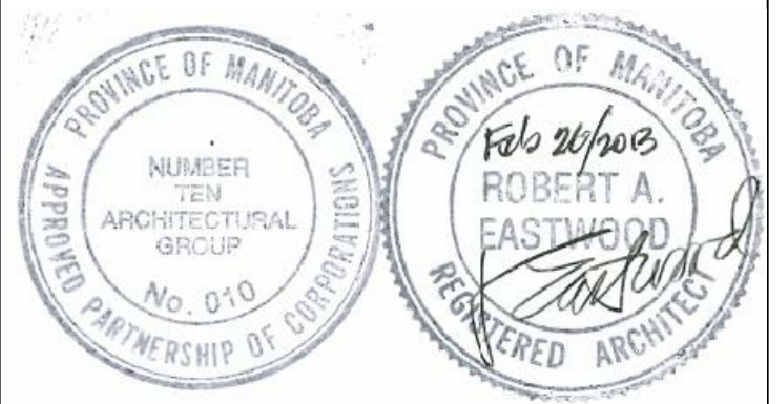
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SHADING INDICATES SLOPED INSULATION.

REFLECTED CEILING PLAN LEGEND

- 3000 Ceiling Height (Above Finished Floor)
- BT-A Fluorescent luminaire, 'BT-A' denotes panel circuit No. and switch.
- NA Night light fluorescent luminaire.
- EM Emergency lighting fluorescent luminaire.
- Ceiling mounted luminaire.
- Exterior Light Fixture

- FIRE SEPARATIONS**
- 1 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONST'N)
 - 2 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONST'N)
 - TO U/S OF STRUC OR SOUND RATED WALLS
CONSTRUCTED TO U/S CEILING W/ SOUND Baffle ABOVE (REFER TO FLOOR PLANS FOR WALLTYPE CONSTRUCTION)
 - 3/4 HOUR FIRE SEPARATION
WALLS CONSTRUCTED TO U/S STRUCTURE (REFER TO FLOOR PLANS FOR WALLTYPE CONSTRUCTION)

- KEY NOTES:**
- 1 EXPOSED STEEL DECK AND O.W.S.J.
 - 2 LINE OF AIR CURTAIN ABOVE DOOR, TYP
 - 3 LINE OF OVERHEAD DOOR & TRACK ABOVE, TYP
 - 4 ENCLOSED ACRYLIC SHOWER STALL C/W WATER PROOF FIXTURE
 - 5 STEEL BEAM



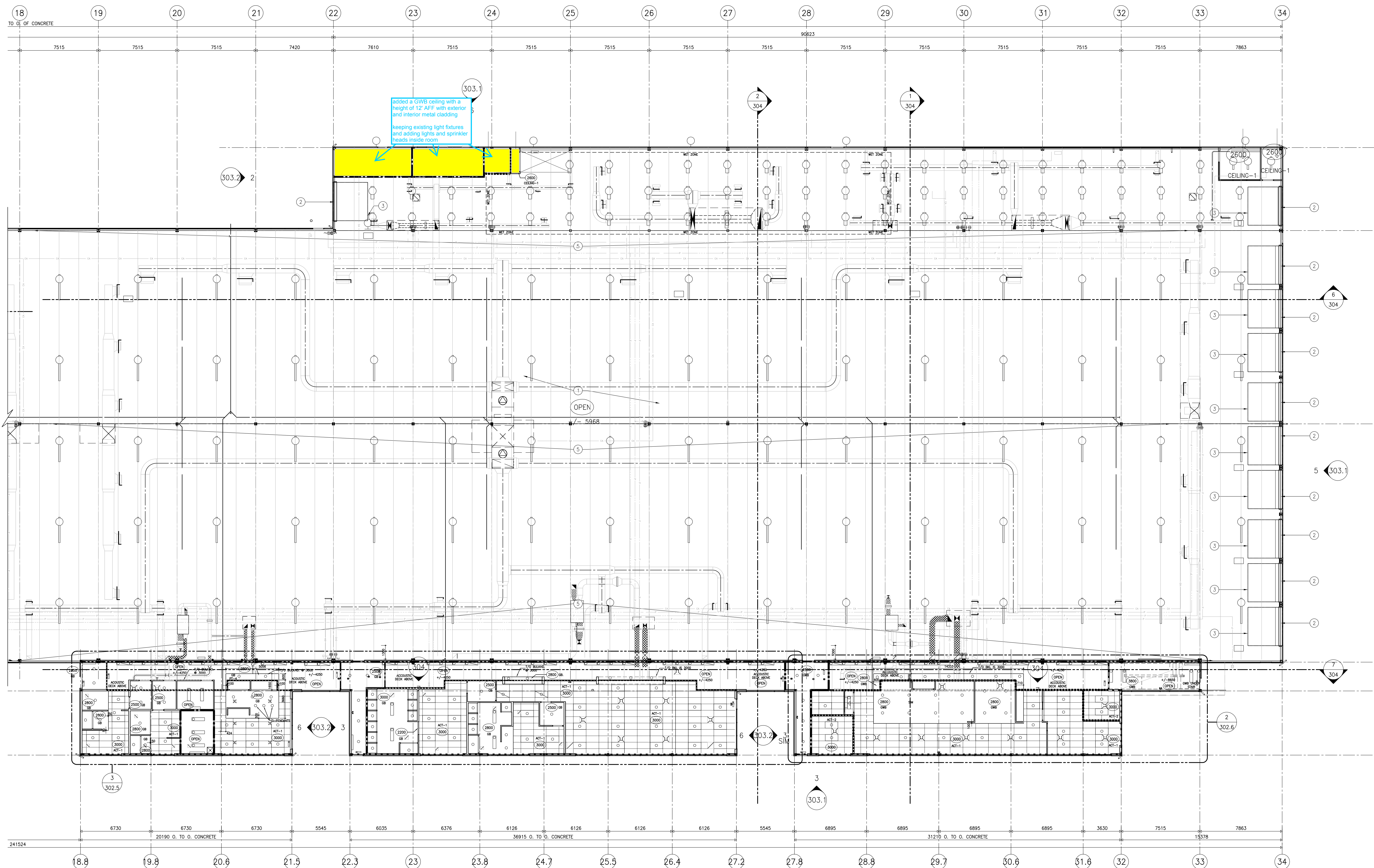
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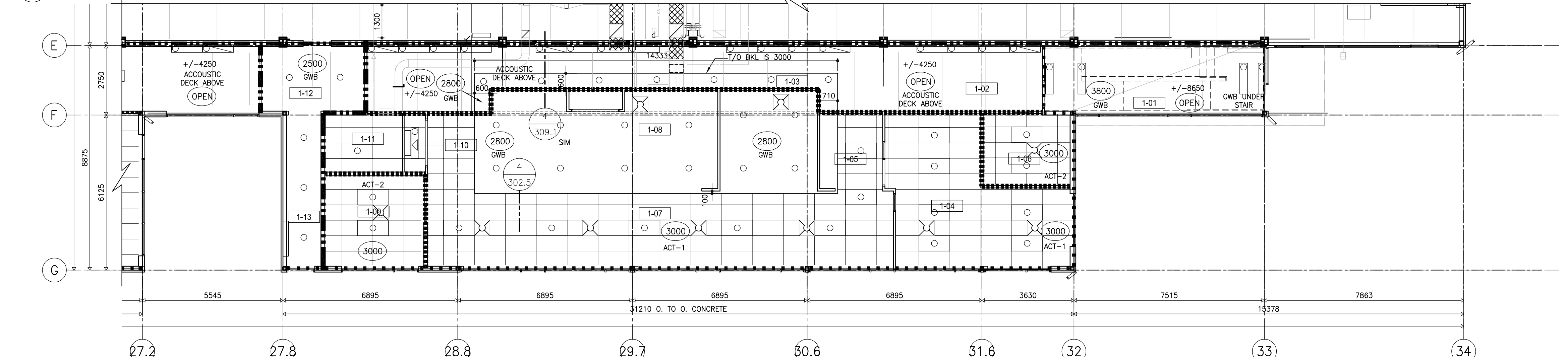
TRANSIT BUS PARKING & SERVICE GARAGE
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PART. REFLECTED CEILING PLAN NORTH

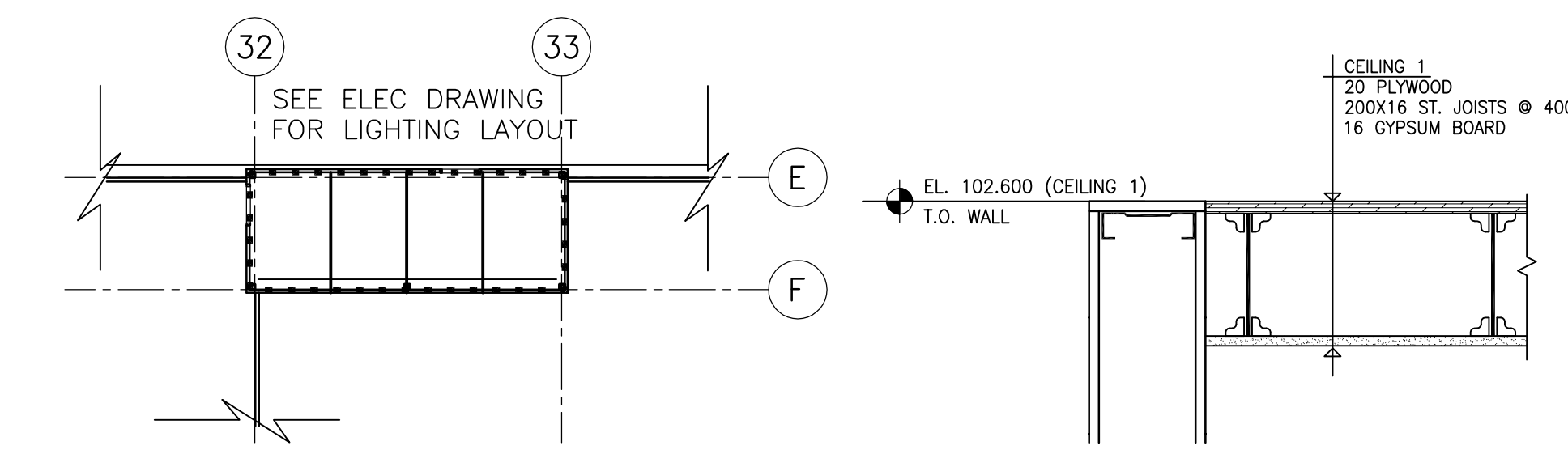
Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.



1 PART. REFLECTED CEILING PLAN NORTH
SCALE: 1:150



2 REFLECTED CEILING PART. PLAN
SCALE: 1:100



3 PART. REFLECTED CEILING PLAN
SCALE: 1:150

4 SECTION OF CLG TYPE 1
SCALE: 1:10

P:\2012\2012021 - City of Winnipeg Transit Garage\3.0 - Concept Documents\Working Drawings\Current Drawings\302.6-4-RCP.dwg

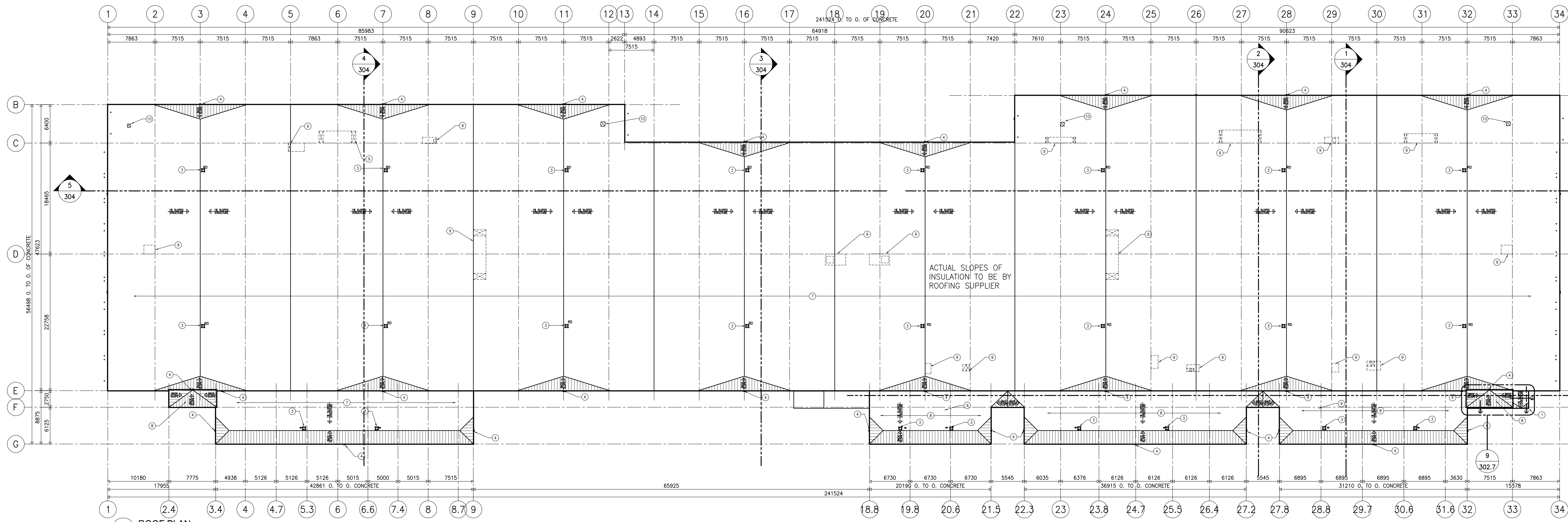
REVISED / ISSUED / PLOTTED	DATE
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ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

GENERAL NOTES:

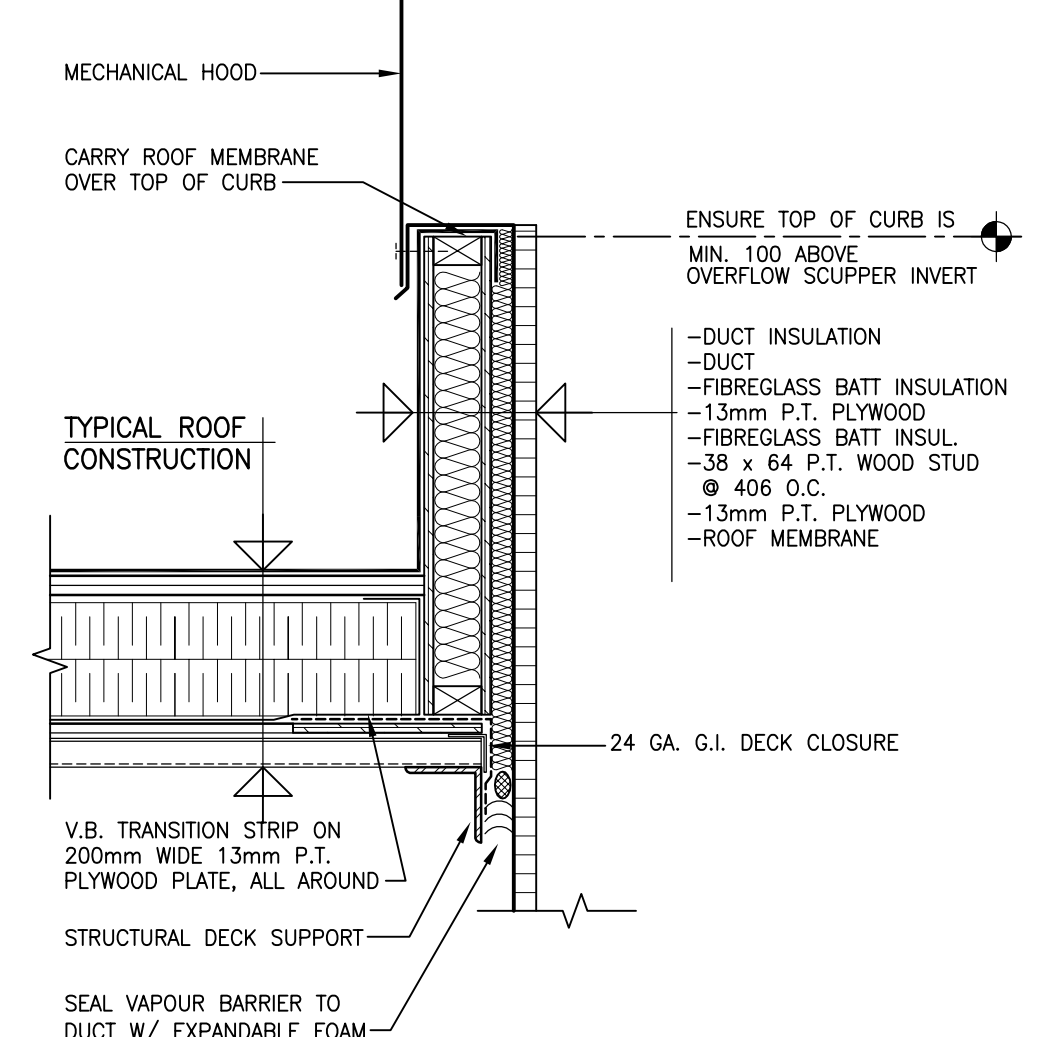
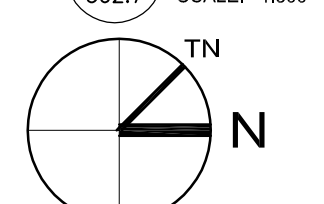
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SHADING INDICATES SLOPED INSULATION.
PROVIDE CRICKETS AT LOCATIONS THAT INTERFERE WITH ROOF DRAINAGE.
OVERFLOW SCUPPERS ON THE GARAGE ROOF ARE TO BE 70mm ABOVE THE LOW POINT

KEY NOTES:

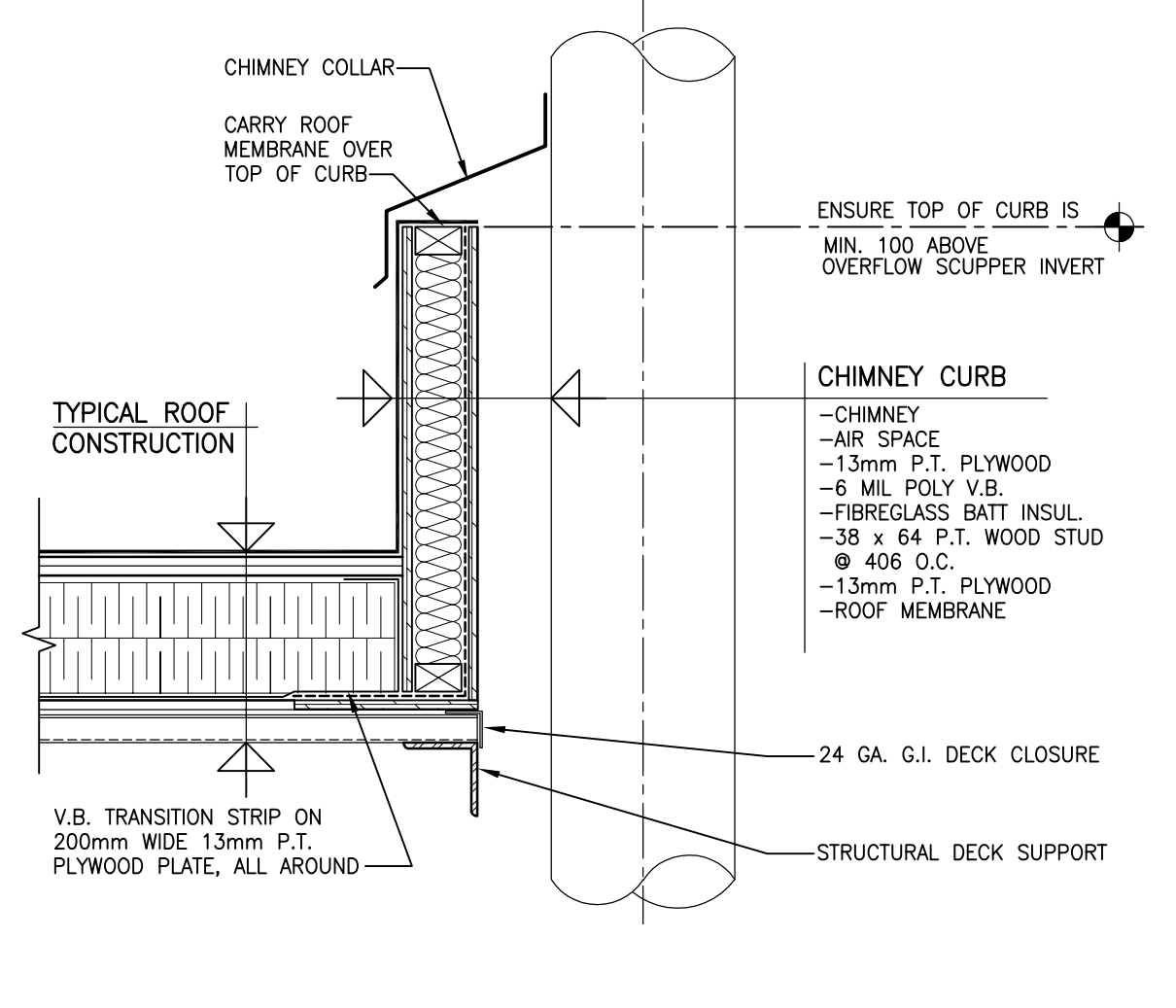
- ① LINE OF ROOF, EXTERIOR SOFFIT, OR CANOPY BELOW
- ② NOT USED
- ③ ROOF DRAIN, RE: MECHANICAL
- ④ OVERFLOW SCUPPER RE: 7 & 8/302.5
- ⑤ BACKSLOPE INSULATION AT ROOF PARAPET
- ⑥ ROOF DUCT PENETRATIONS, RE: 3 & 4/A1.3.4, RE: MECH.
- ⑦ ROOF TYPE 1
- ⑧ ROOF TYPE 2
- ⑨ ROOF TOP MECHANICAL UNIT, RE: 4 & 5/302.5, RE: MECH.
- ⑩ ROOF TOP MECHANICAL HOOD, RE: 2/302.5, RE: MECH.



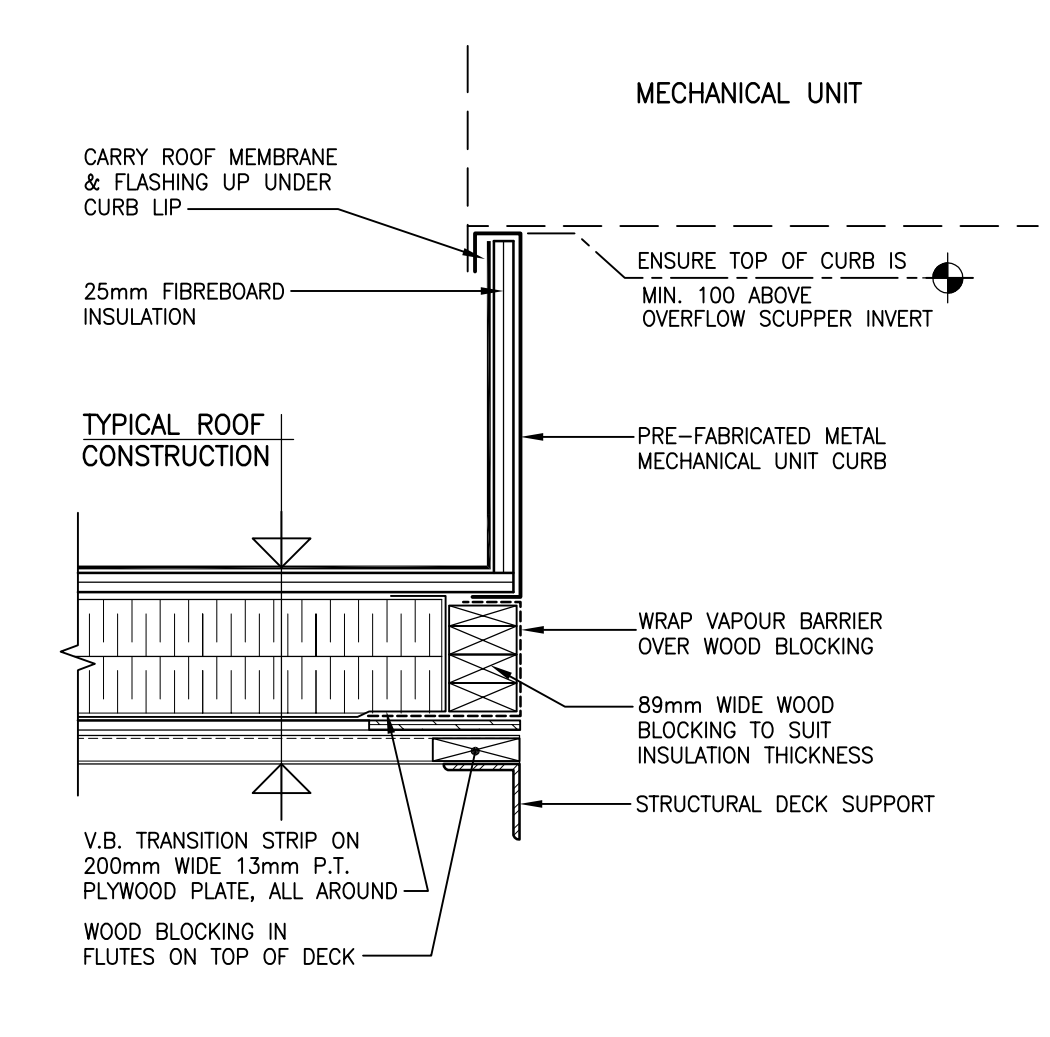
1 ROOF PLAN
SCALE: 1:300



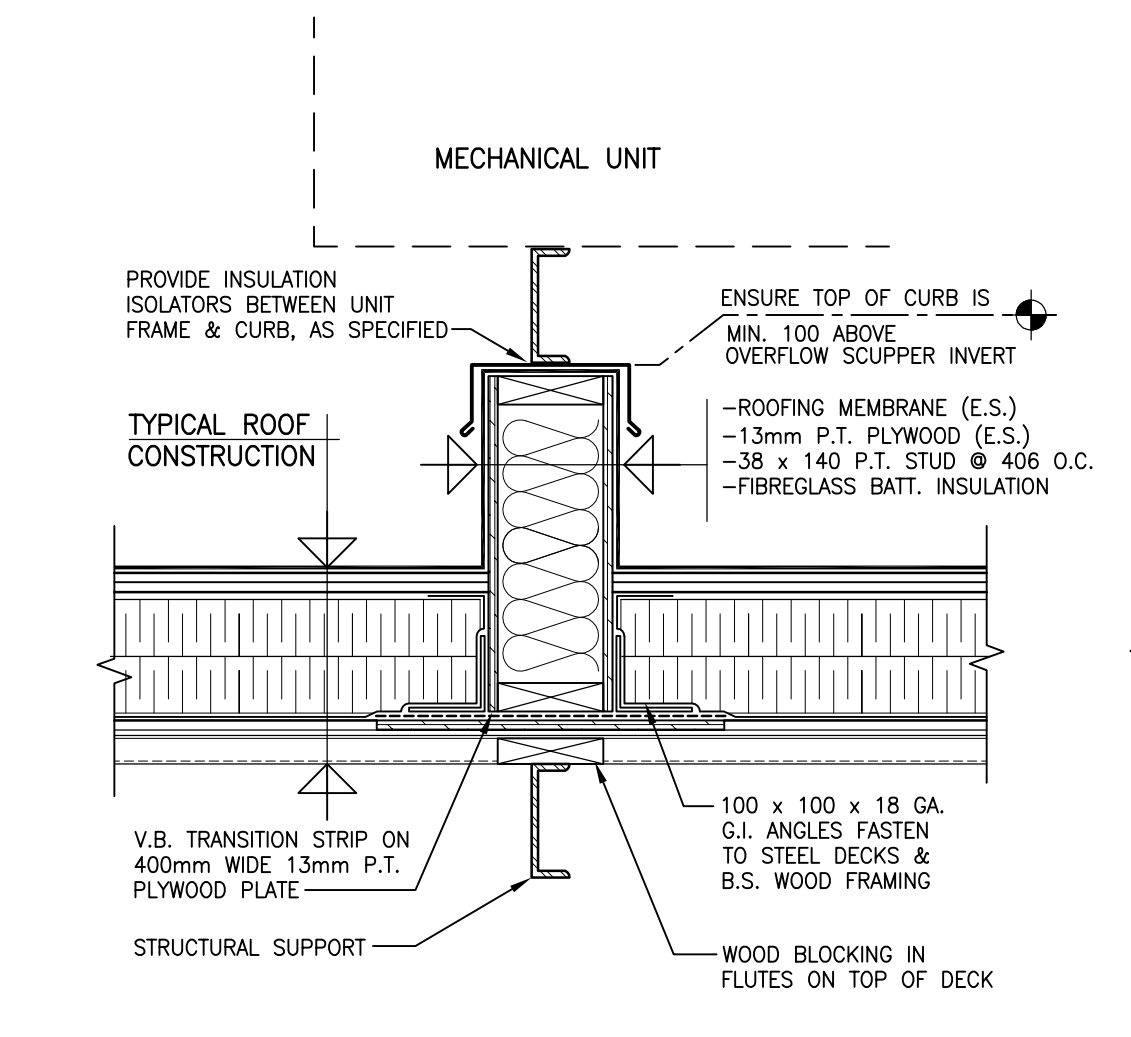
2 TYP. DUCT PENETRATION
SCALE: 1:10



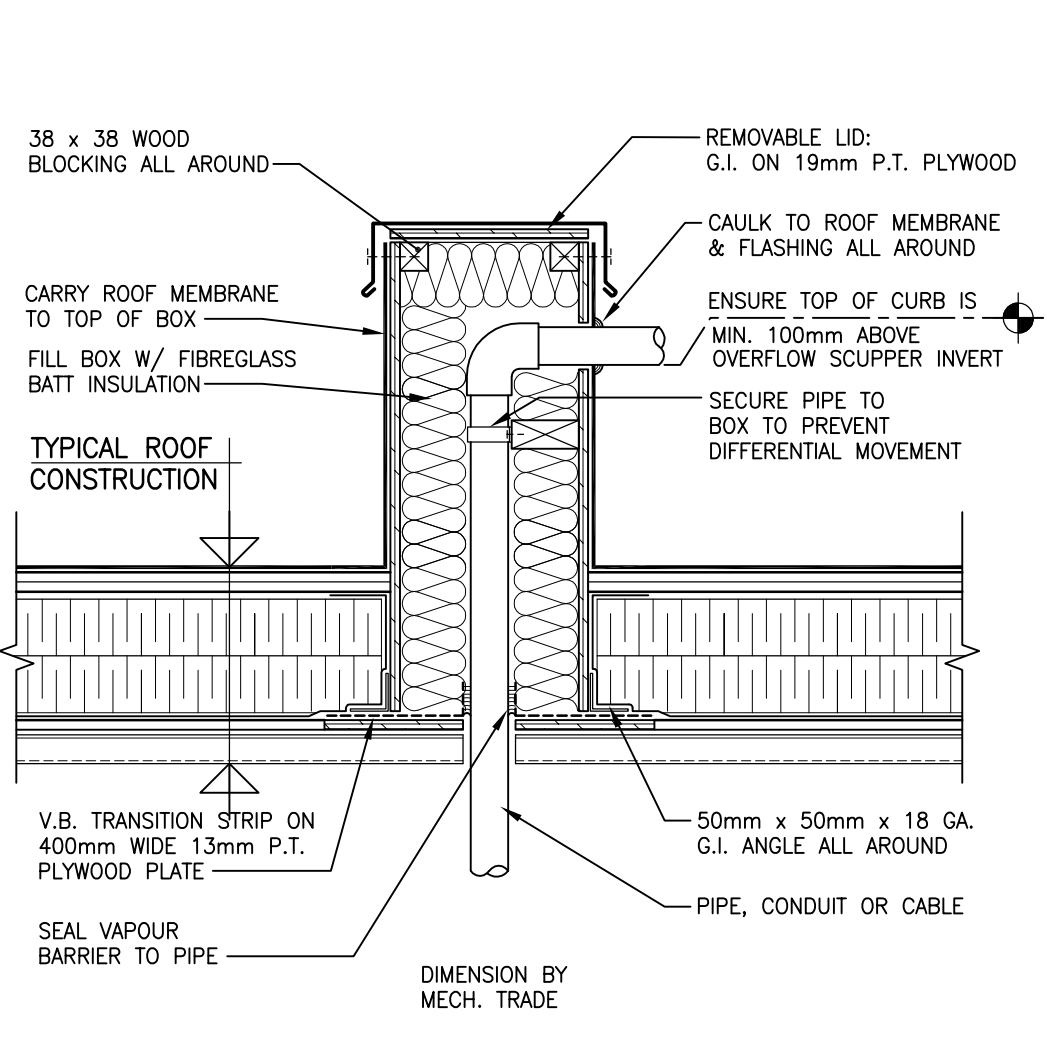
3 TYP. CHIMNEY PENETRATION
SCALE: 1:10



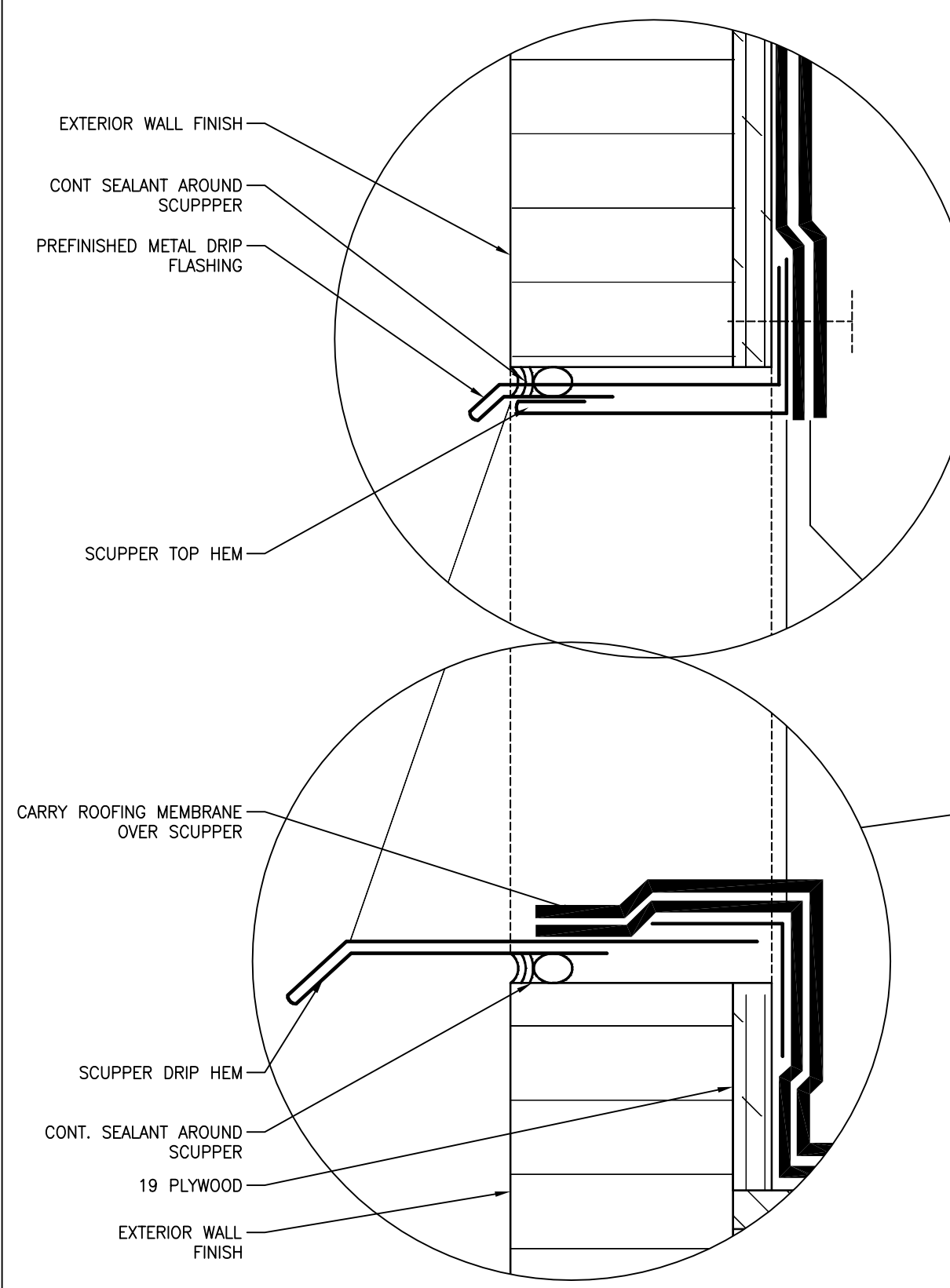
4 TYP. MECHANICAL EQUIPMENT PRE-FAB CURB
SCALE: 1:10



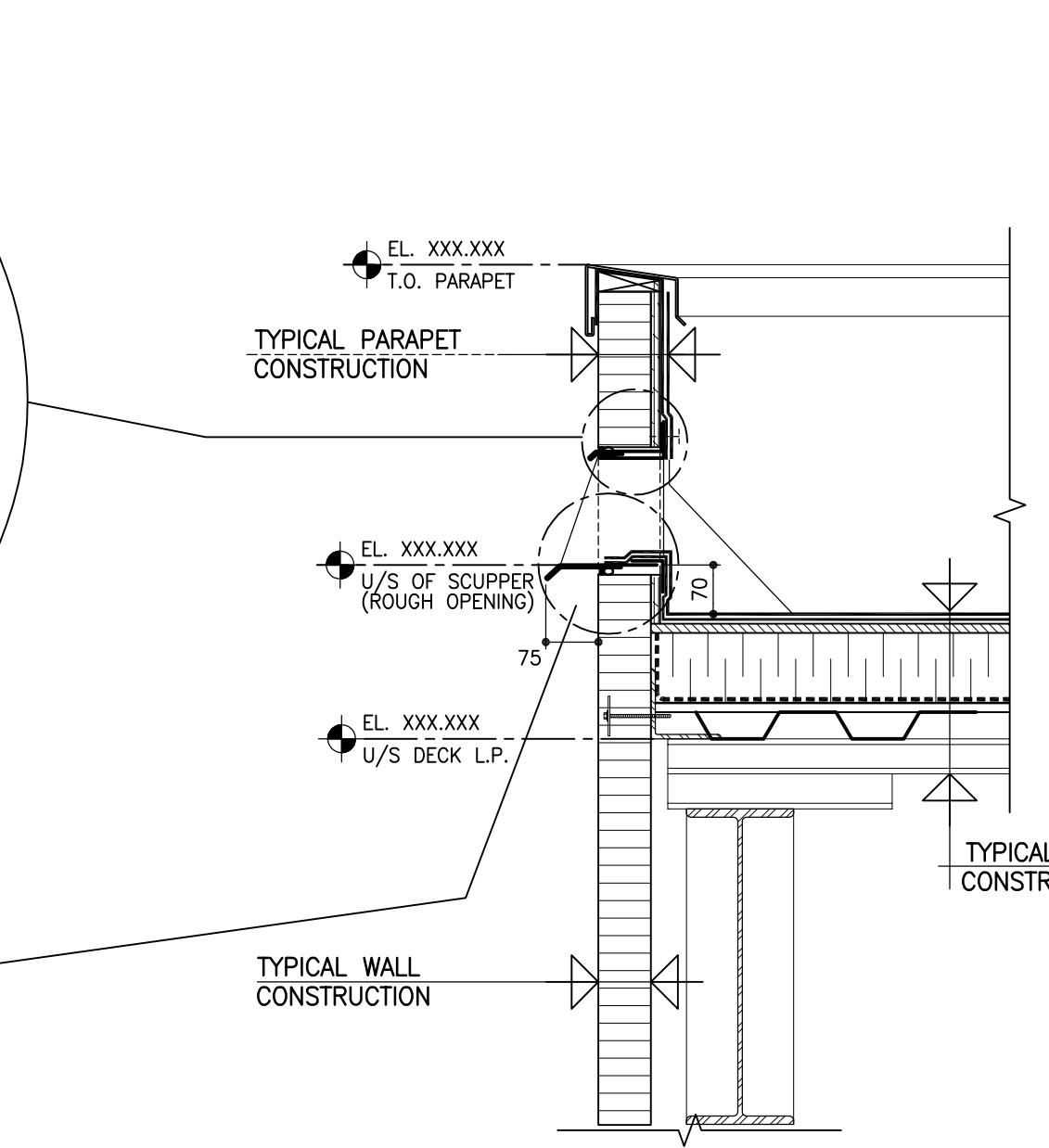
5 TYP. MECHANICAL EQUIPMENT SUPPORT
SCALE: 1:10



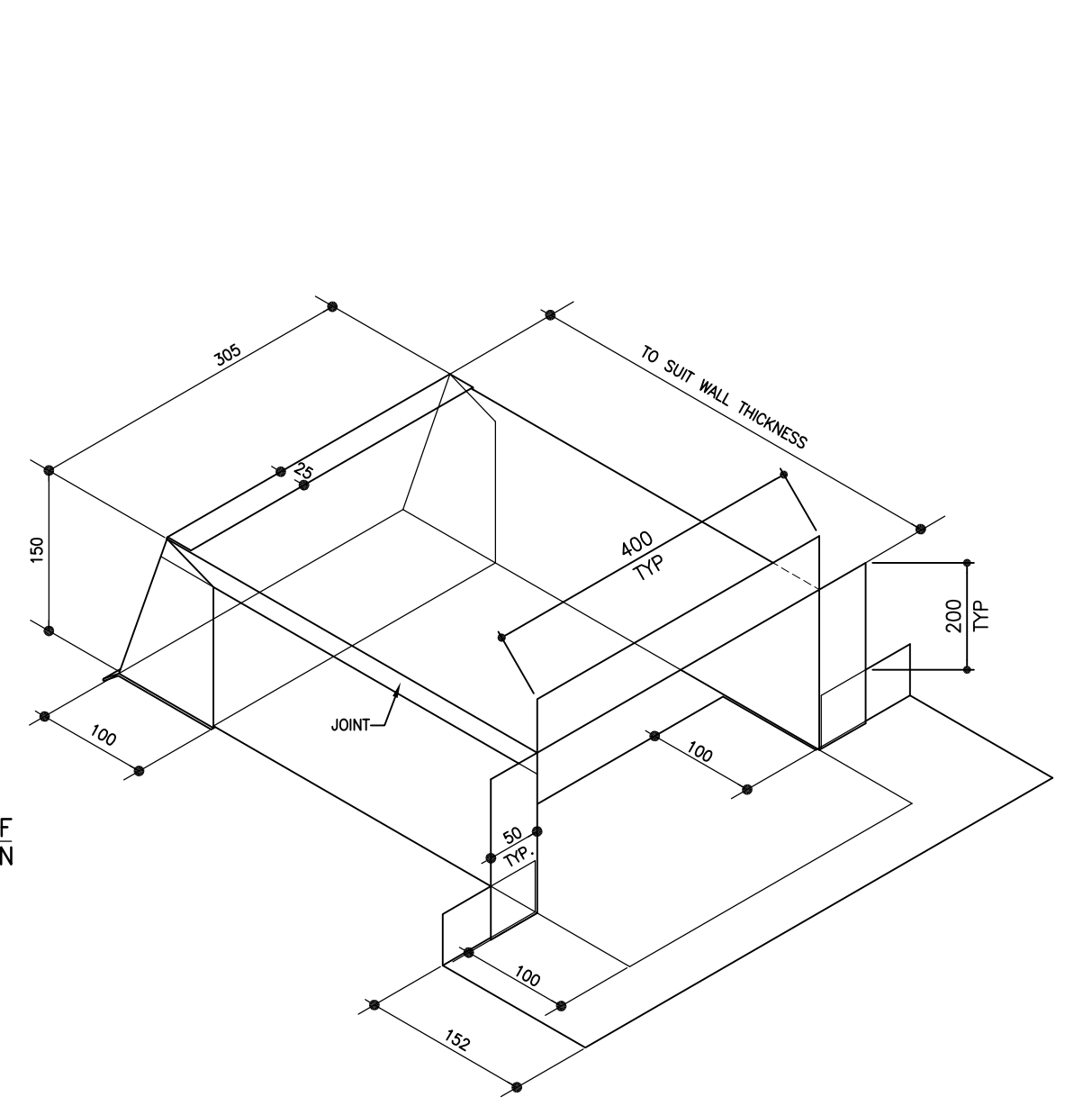
6 TYPICAL SERVICE PENETRATION
SCALE: 1:10



7 OVERFLOW SCUPPER - SECTION
SCALE: 1:10



8 OVERFLOW SCUPPER
SCALE: NTS



9 ENLARGED ROOF PLAN @ CANOPY
SCALE: 1:50



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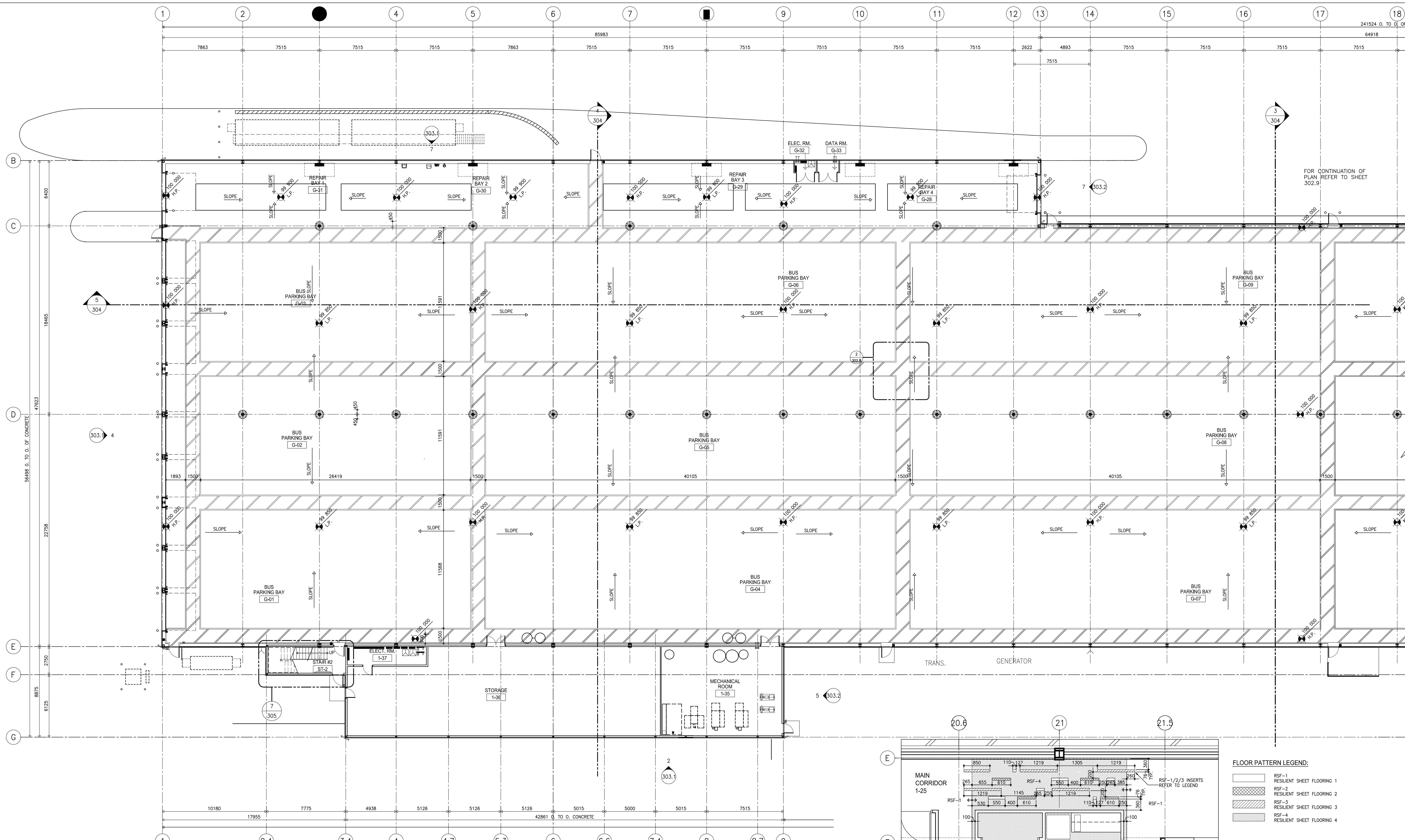
ROOF PLAN

Project number	2012021
Date	JULY 3, 2012
Drawn by	M.S.
Checked by	R.E.

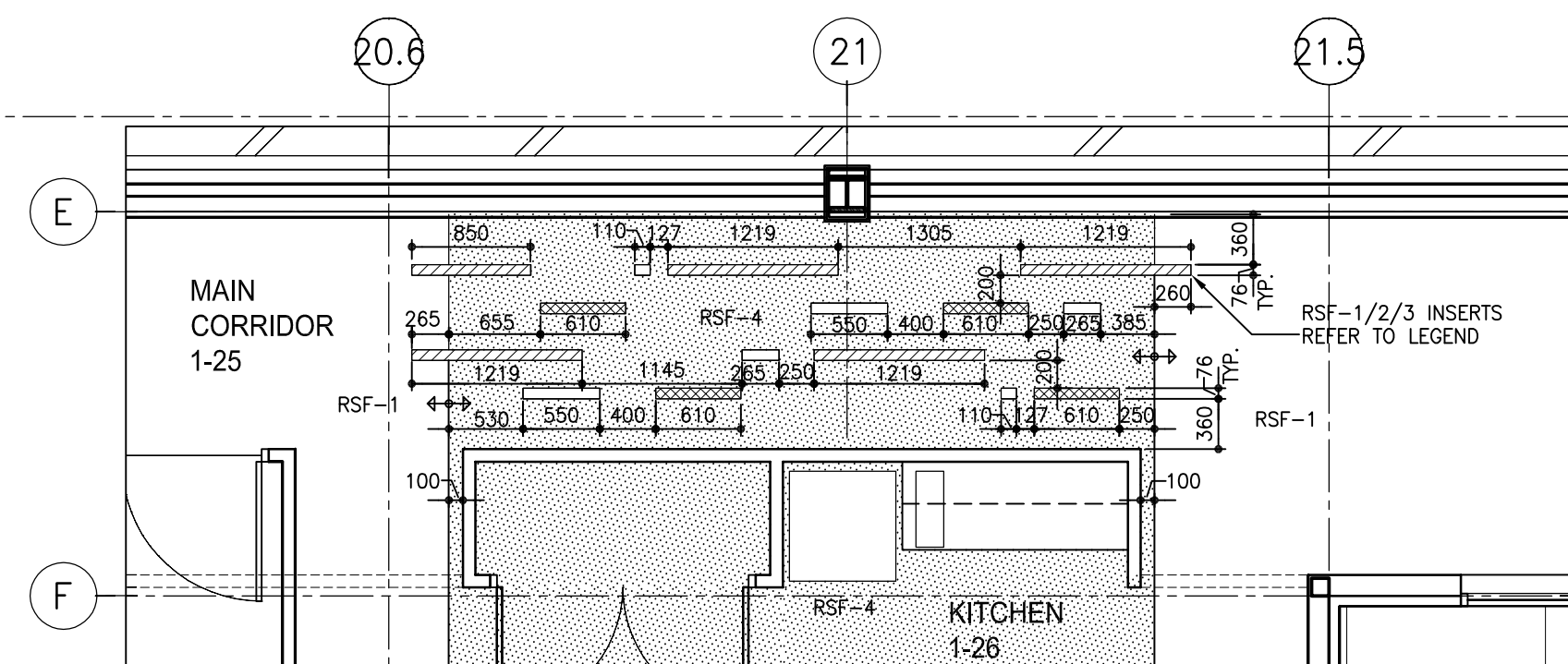
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 80% REVIEW	19/07/2012
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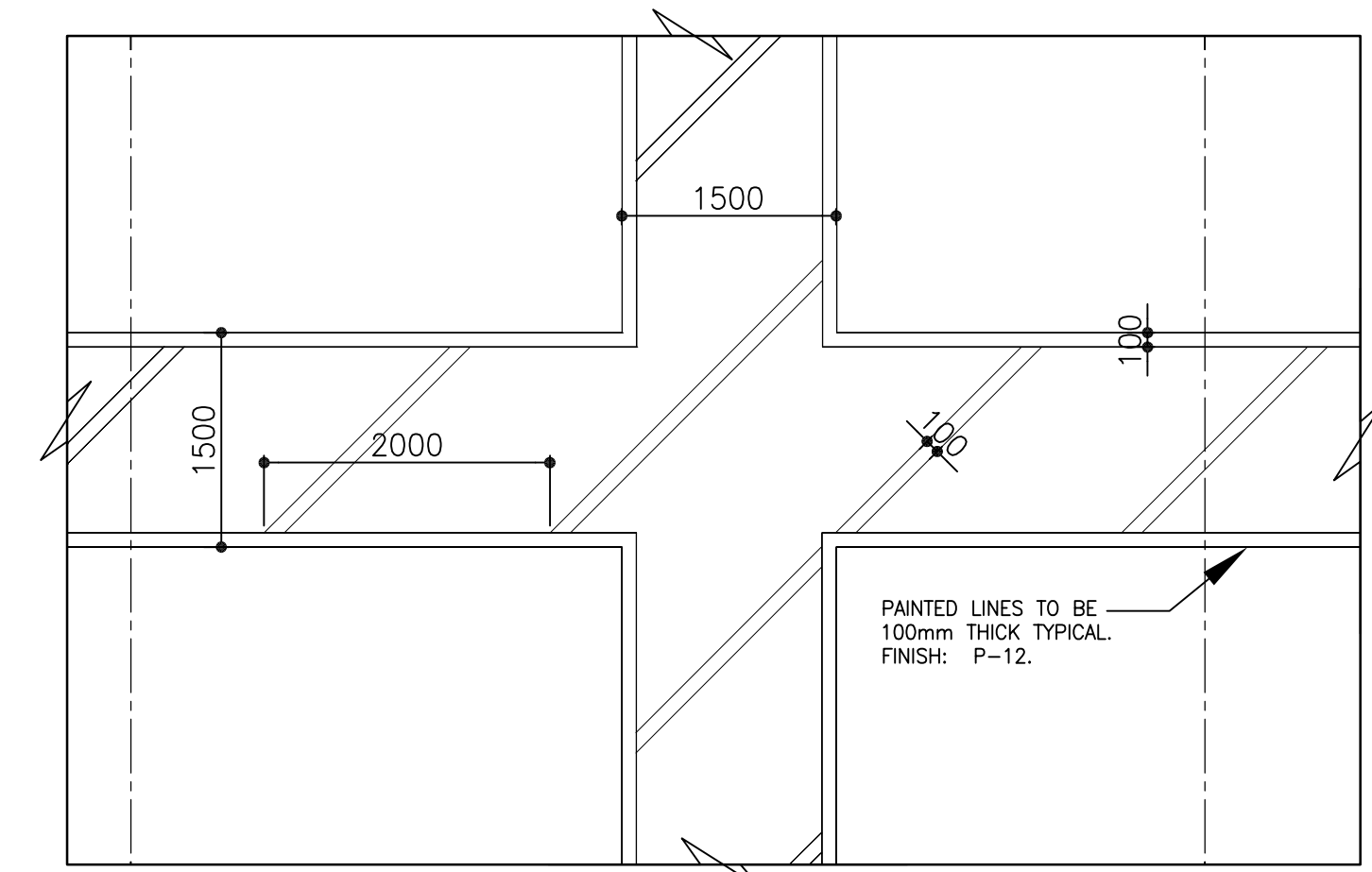
1 PART. FLOOR PLAN
SCALE: 1:150



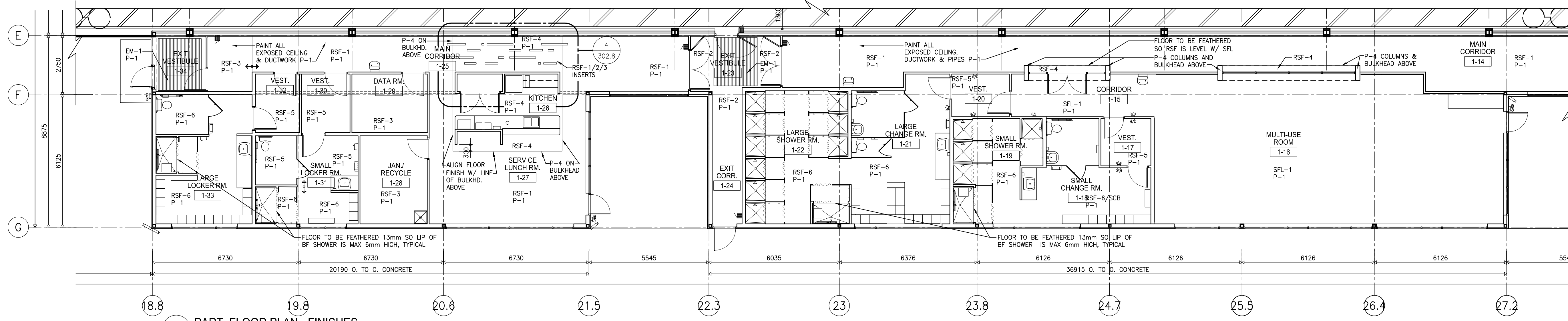
FLOOR PATTERN LEGEND:

[Pattern]	RSF-1 RESIDENT SHEET FLOORING 1
[Pattern]	RSF-2 RESIDENT SHEET FLOORING 2
[Pattern]	RSF-3 RESIDENT SHEET FLOORING 3
[Pattern]	RSF-4 RESIDENT SHEET FLOORING 4

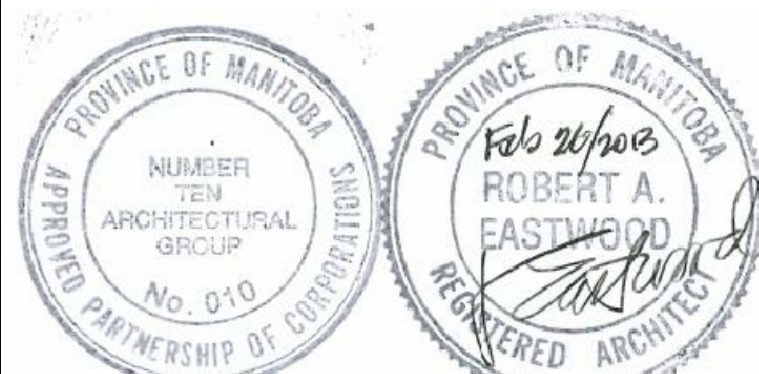
4 ENLARGED PART. FLOOR PLAN - FLOOR FINISHES
SCALE: 1:50



2 DETAIL - TYPICAL GARAGE FLOOR PAINT PATTERN
SCALE: 1:50



3 PART. FLOOR PLAN - FINISHES
SCALE: 1:100



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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

PART. FINISH FLOOR PLAN SOUTH

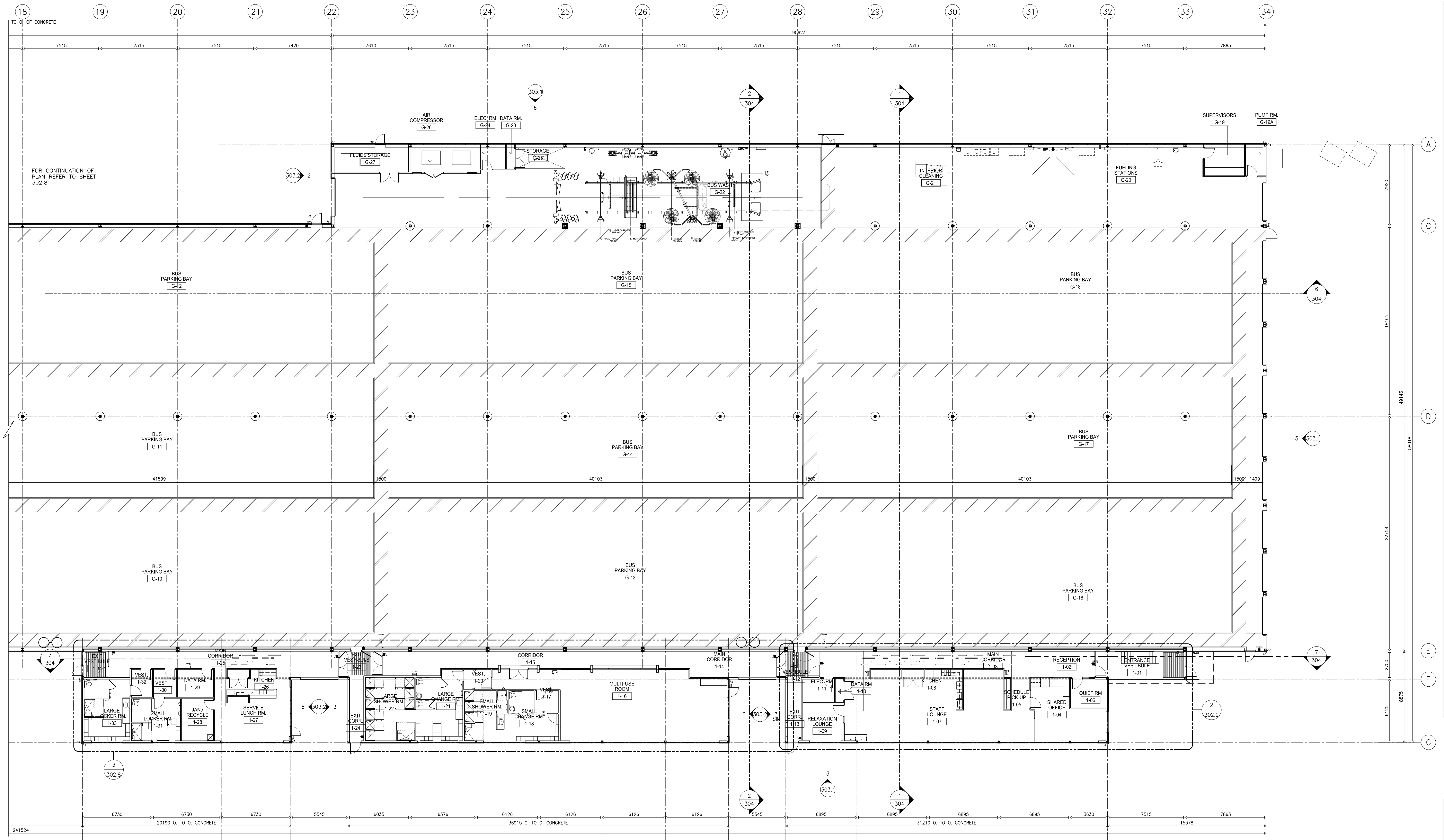
Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

Scale AS NOTED **302.8**

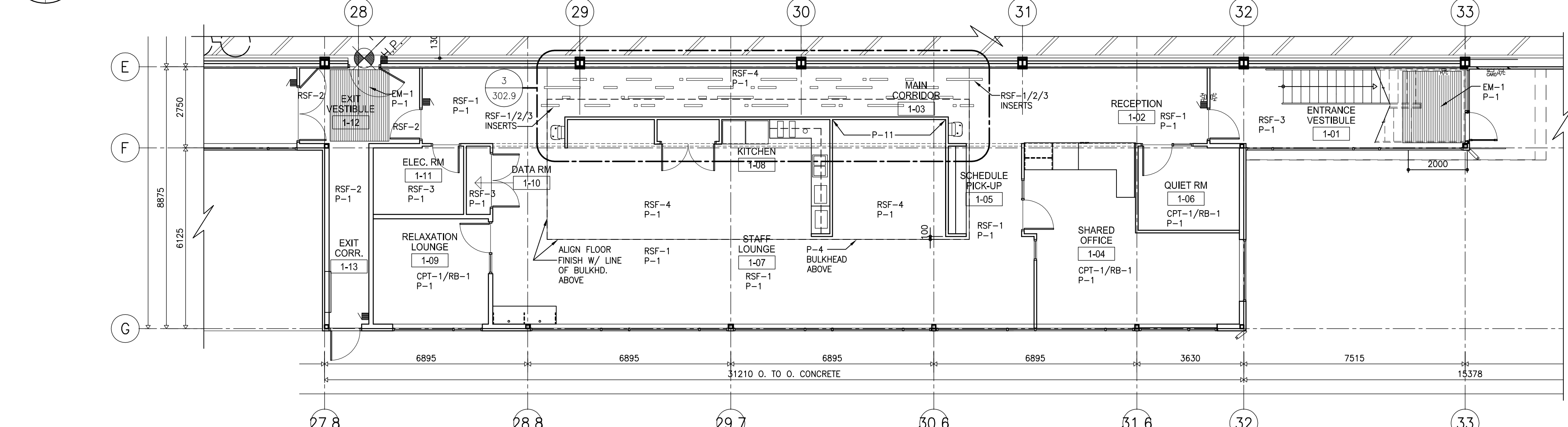
P:2012021021 - City of Winnipeg Transit Garage 3.0 - Contract Documents Working Drawings - 302.8 - FINISH FLOOR PLAN

REVISION/ISSUED/ PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2013
ISSUED FOR 80% REVIEW	19/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

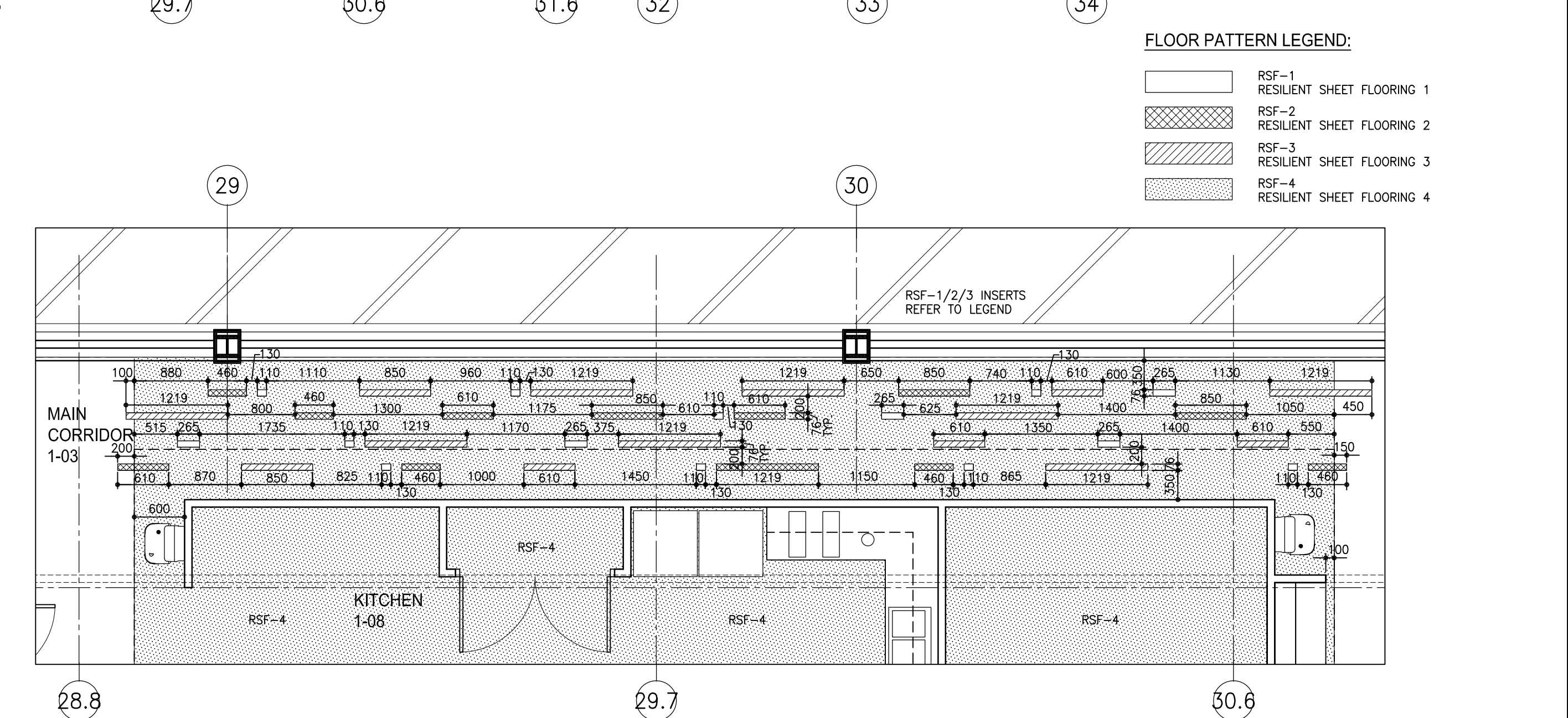
GENERAL NOTES:
EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO O/F OF CONC. BLOCK, CONCRETE FOUNDATION OR O/F OF STEEL STUD UNLESS OTHERWISE NOTED.



1 PART. FLOOR PLAN NORTH
SCALE: 1:150



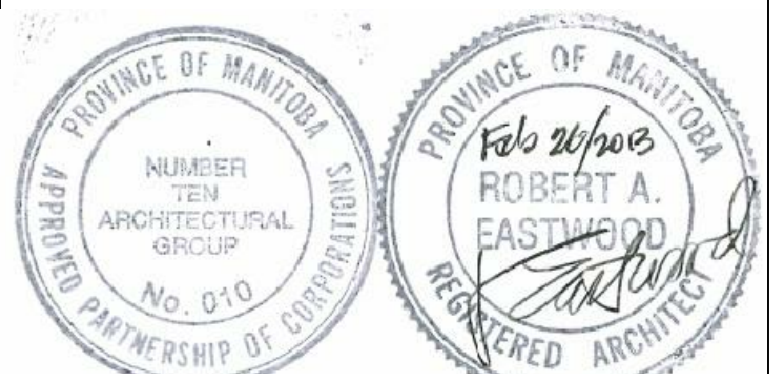
2 PART. FLOOR PLAN - FINISHES
SCALE: 1:100



3 ENLARGED PART. FLOOR PLAN - FLOOR FINISHES
SCALE: 1:50

FLOOR PATTERN LEGEND:

[Pattern]	RSF-1 RESIDENT SHEET FLOORING 1
[Pattern]	RSF-2 RESIDENT SHEET FLOORING 2
[Pattern]	RSF-3 RESIDENT SHEET FLOORING 3
[Pattern]	RSF-4 RESIDENT SHEET FLOORING 4



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TRANSIT BUS PARKING & SERVICE GARAGE

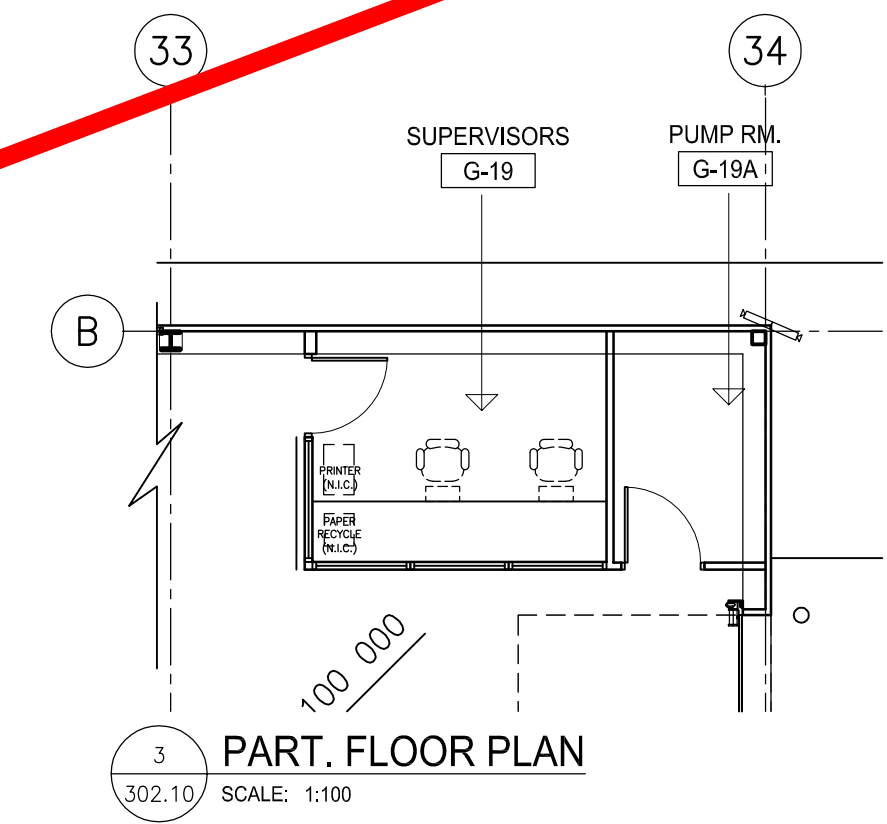
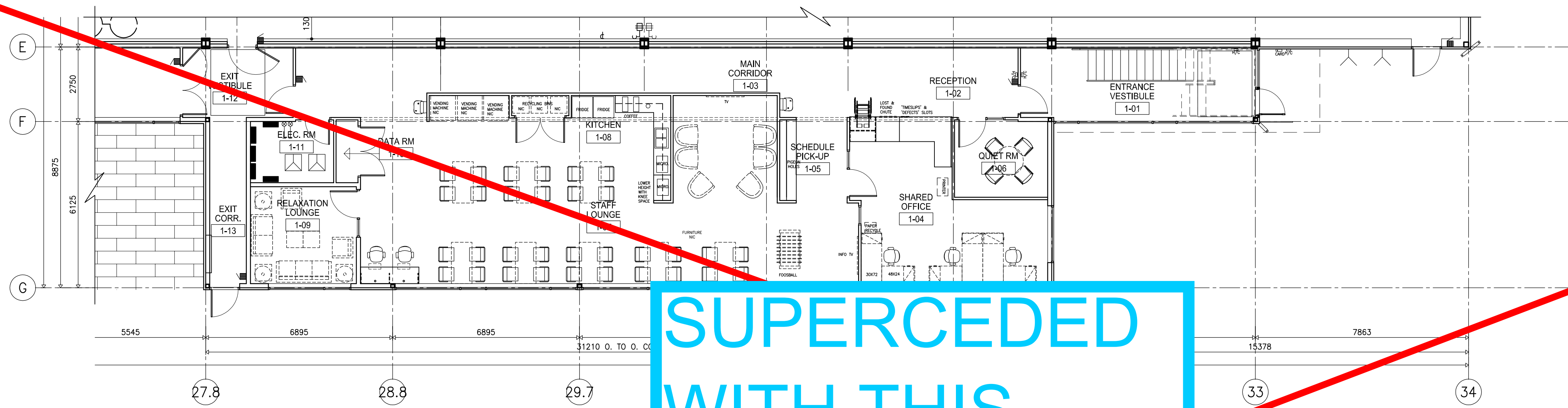
600 Brandon Ave, Winnipeg, Manitoba

PART. FINISH FLOOR PLAN NORTH

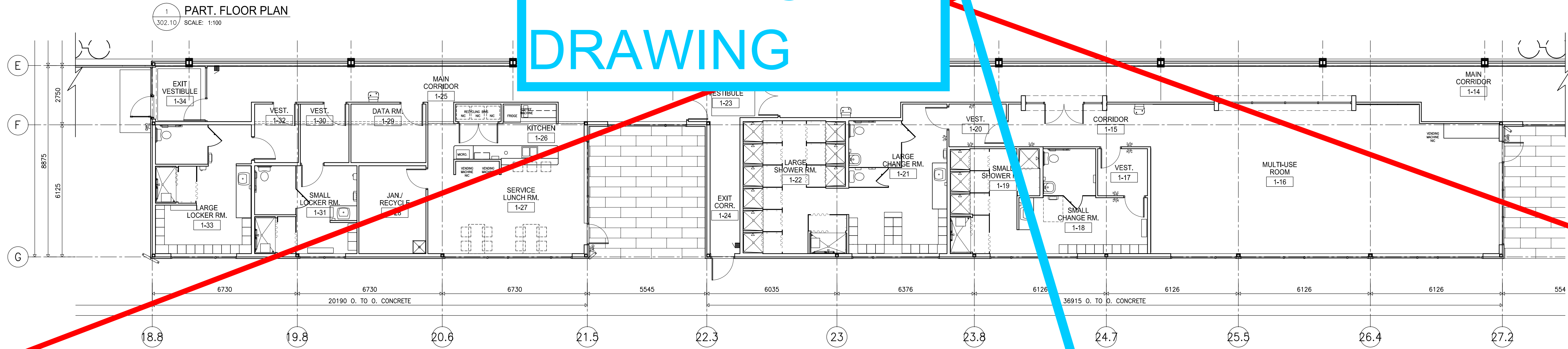
Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S.
Checked by	R.E.

GENERAL NOTES:

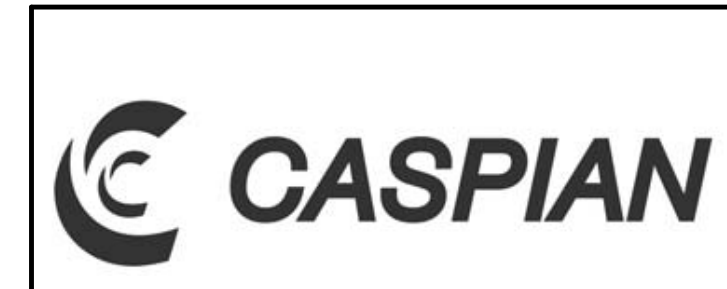
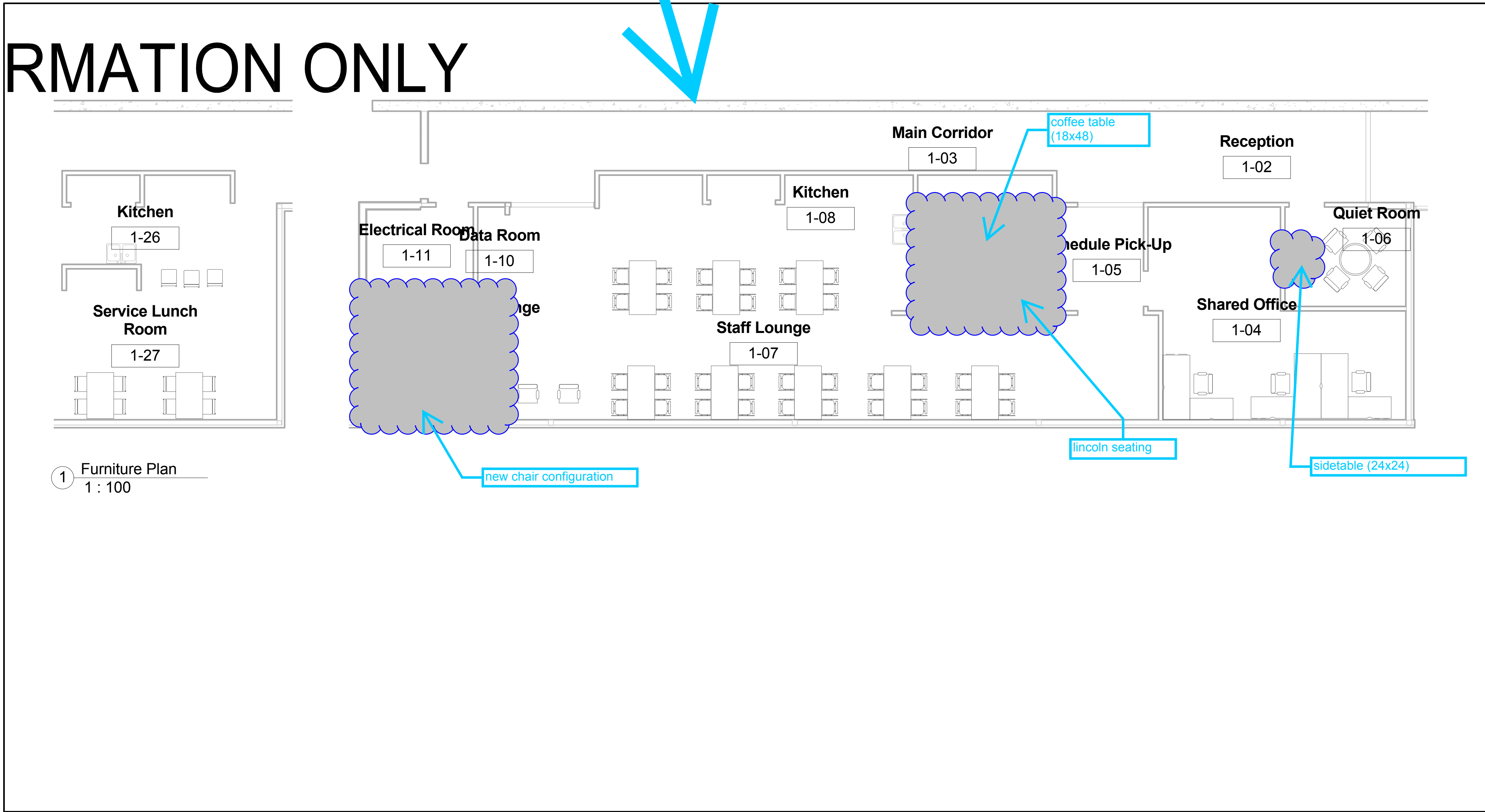
EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO O/F OF CONG. BLOCK, CONCRETE FOUNDATION OR O/F OF STEEL STUD UNLESS OTHERWISE NOTED.



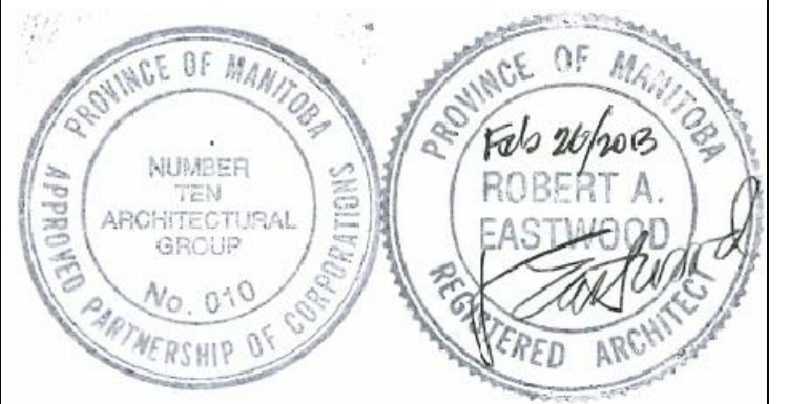
**SUPERCEDED
WITH THIS
DRAWING**



**ISSUED FOR INFORMATION ONLY
FURNITURE N.I.C.**



City of Winnipeg		Furniture Layout	
Transit Garage		Project number	19403-11
Date	Issue Date	Author	A124
Checked by	Checker	Scale	1 : 100



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**TRANSIT BUS PARKING
& SERVICE GARAGE**

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FURNITURE PLAN

Project number	2012021
Date	NOVEMBER 15, 2012
Drawn by	R.C.
Checked by	R.E.

Scale AS NOTED **302.10**

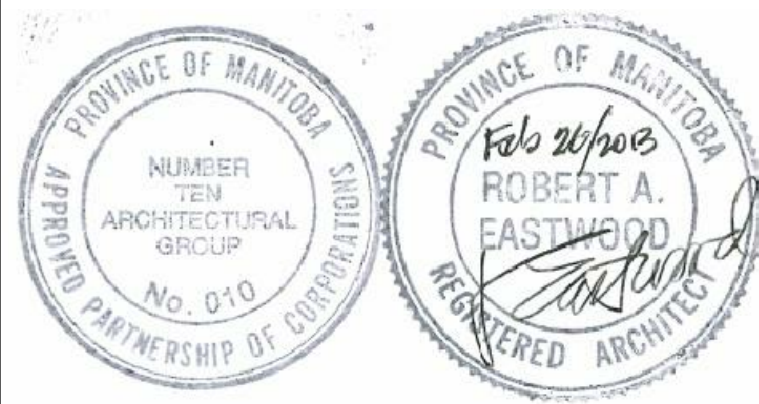
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 80% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

KEYNOTE LEGEND

- 1 VERTICAL INSULATED METAL PANEL TYPE 1
- 2 HORIZONTAL INSULATED METAL PANEL TYPE 2
- 3 GLAZING IN EXTERIOR ALUMINUM FRAME
- 4 GLAZING IN OPERABLE EXTERIOR ALUMINUM FRAME
- 5 HOLLOW METAL DOOR
- 6 PRE-FINISHED METAL OVERHEAD DOOR
- 7 PRE-FINISHED METAL FLASHING
- 8 CANOPY
- 9 PRE-FINISHED OVER FLOW SCUPPER
- 10 LINE OF CONCRETE UPSTAND BEHIND WALL PANEL, RE: STRUCTURAL
- 11 LOCATION OF CROSS BRACING, RE: STRUCTURAL
- 12 LANDSCAPE BERM, RE: CIVIL
- 13 SIGN BOX, IN NEGOTIATION
- 14 STAINLESS STEEL LASER CUT LETTERS, IN NEGOTIATION
- 15 VINYL GRAPHIC APPLIED TO DOOR, TYP
- 16 SMOKING SHELTER
- 17 CCTV SECURITY CAMERA
- 18 CARD READER
- 19 DOOR ACTUATOR
- 20 WASH BAY CURTAIN
- 21 WINDOW
- 22 GROMMET C/W ANCHOR CLIPS
- 23 WEIGHT CHAIN
- 24 50mm POCKET TO ACCOMMODATE PIPE
- 25 900x900 MECHANICAL LOUVER
- 26 FIRE DEPARTMENT CONNECTION
- 27 HOSE BIB, RE: MECHANICAL
- 28 EXTERIOR LIGHT FIXTURE, RE: ELEC.
- 29 CONTINUOUS SILL & HEAD FLASHING, TYP
- 30 CONTROL JOINT

FINISH LEGEND

- Horizontal Insulated Metal Panel - Type 2 Colour A
- Horizontal Insulated Metal Panel - Type 2 Colour B
- Horizontal Insulated Metal Panel - Type 2 Colour C
- Vertical Insulated Metal Panel - Type 1 Colour A



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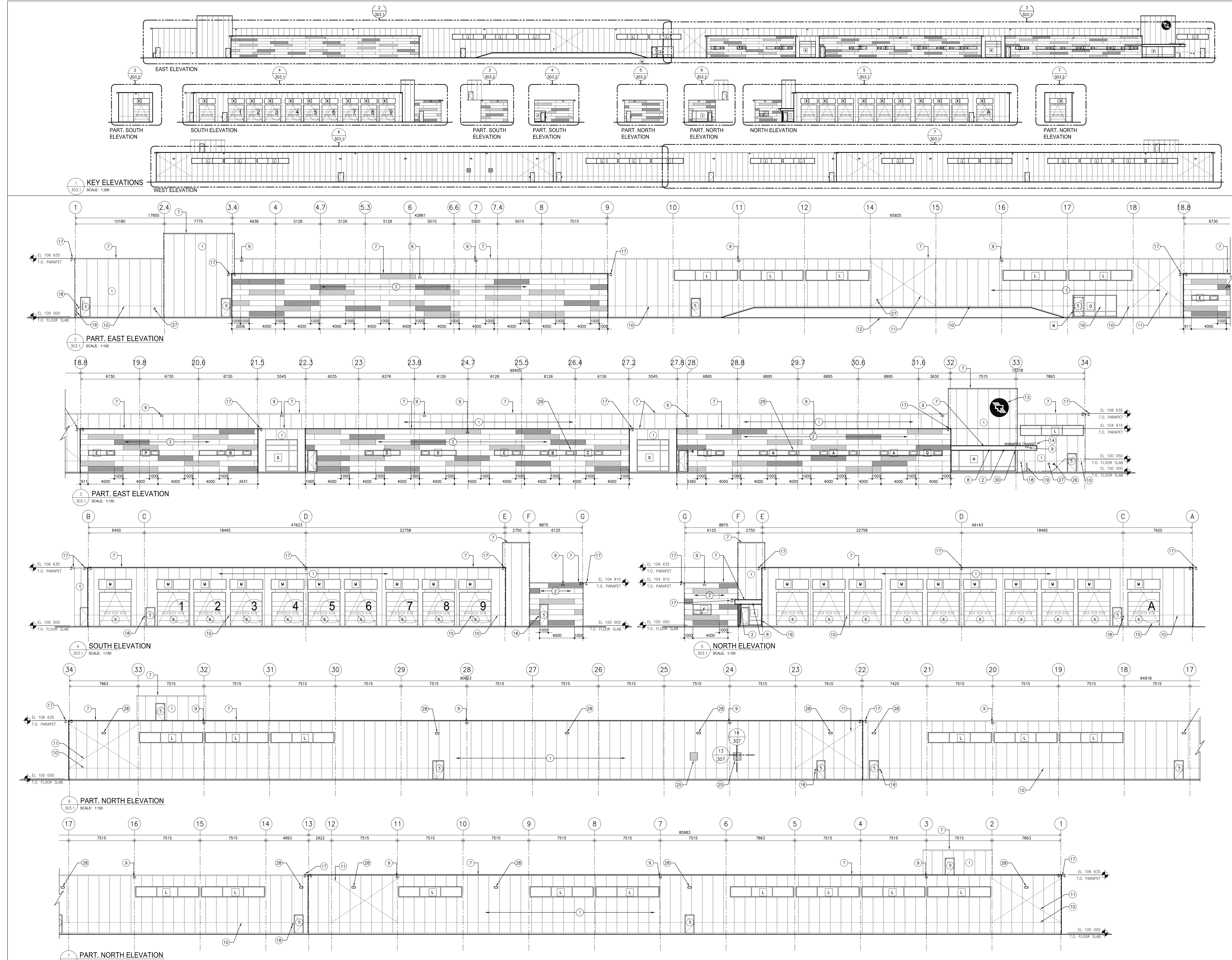
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TRANSIT BUS PARKING & SERVICE GARAGE

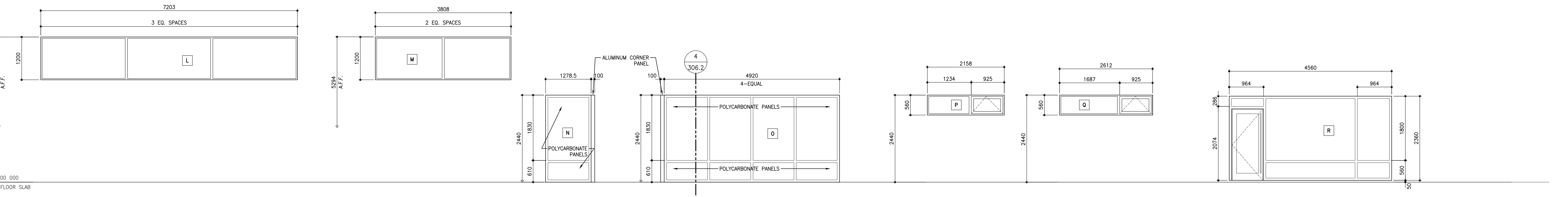
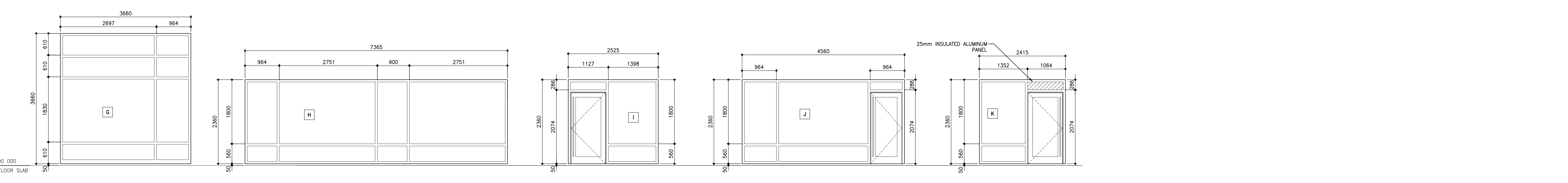
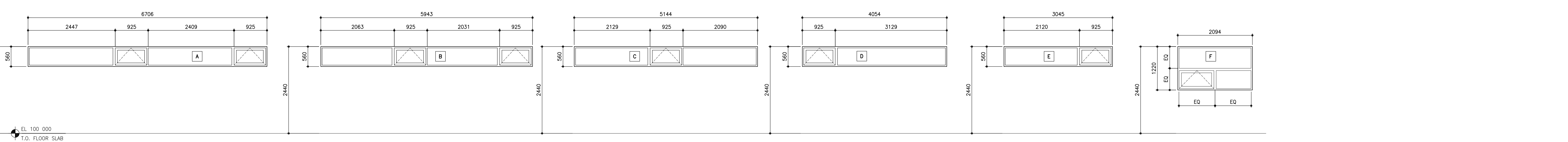
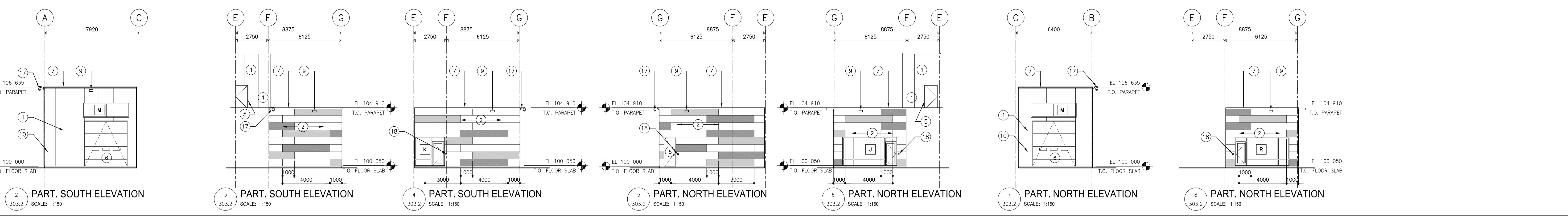
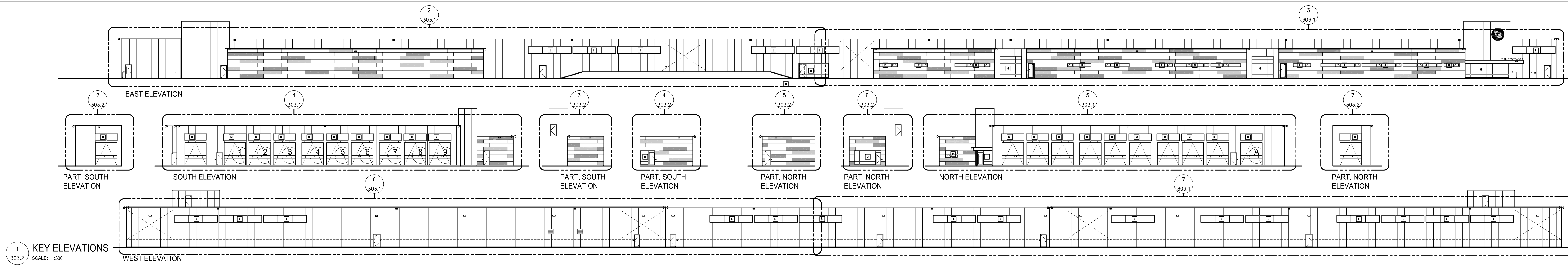
600 Brandon Ave, Winnipeg, Manitoba

BUILDING ELEVATIONS

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S., R.C.
Checked by	R.E.



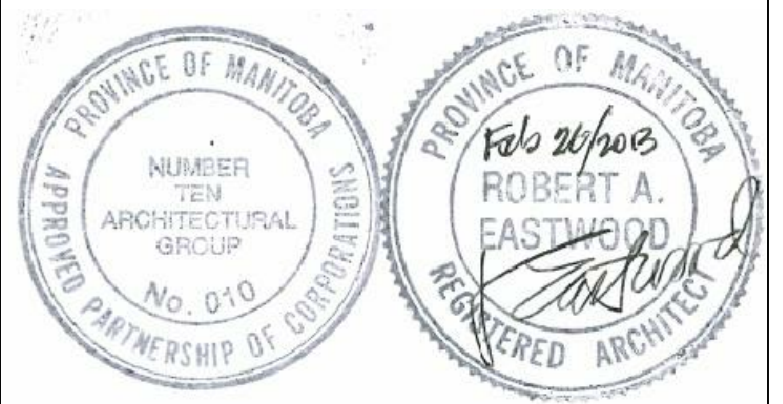
REVISED/ISSUED/PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



8 WINDOW ELEVATIONS
SCALE: 1:50

- KEYNOTE LEGEND**
- VERTICAL INSULATED METAL PANEL TYPE 1
 - HORIZONTAL INSULATED METAL PANEL TYPE 2
 - GLAZING IN EXTERIOR ALUMINUM FRAME
 - GLAZING IN OPERABLE EXTERIOR ALUMINUM FRAME
 - HOLLOW METAL DOOR
 - PRE-FINISHED METAL OVERHEAD DOOR
 - PRE-FINISHED METAL FLASHING
 - CANOPY
 - PRE-FINISHED OVER FLOW SCUPPER
 - LINE OF CONCRETE UPSTAND BEHIND WALL PANEL, RE: STRUCTURAL
 - LOCATION OF CROSS BRACING, RE: STRUCTURAL
 - LANDSCAPE BERM, RE: CIVIL
 - LANDSCAPE, RE: LANDSCAPE
 - SIGN BOX, IN NEGOTIATION
 - STAINLESS STEEL LASER CUT LETTERS, IN NEGOTIATION
 - VINYL GRAPHIC APPLIED TO DOOR, TYP
 - SMOKING SHELTER
 - CCTV SECURITY CAMERA
 - CARD READER
 - DOOR ACTUATOR
 - WASH BAY CURTAIN
 - WINDOW
 - GROMMET C/W ANCHOR CLIPS
 - WEIGHT CHAIN
 - 50mm POCKET TO ACCOMMODATE PIPE
 - 900x900 MECHANICAL LOUVRE
 - FIRE DEPARTMENT CONNECTION
 - HOSE BIB, RE: MECHANICAL
 - EXTERIOR LIGHT FIXTURE, RE: ELEC.
 - CONTINUOUS SILL & HEAD FLASHING, TYP
 - CONTROL JOINT

- FINISH LEGEND**
- HORIZONTAL INSULATED METAL PANEL - TYPE 2 COLOUR A
 - HORIZONTAL INSULATED METAL PANEL - TYPE 2 COLOUR B
 - HORIZONTAL INSULATED METAL PANEL - TYPE 2 COLOUR C
 - VERTICAL INSULATED METAL PANEL - TYPE 1 COLOUR A



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KEY ELEVATIONS
BUILDING ELEVATIONS
WINDOW TYPES

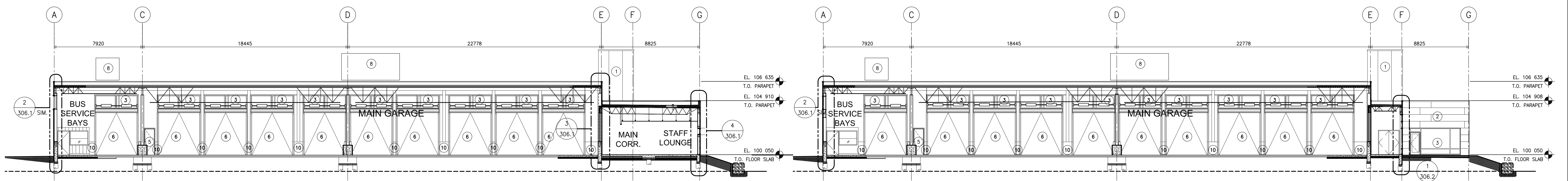
Project number	2012021
Date	JULY 3, 2012
Drawn by	M.S., R.C.
Checked by	R.E.

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REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR FOUNDATION PERMIT	18/07/2012
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

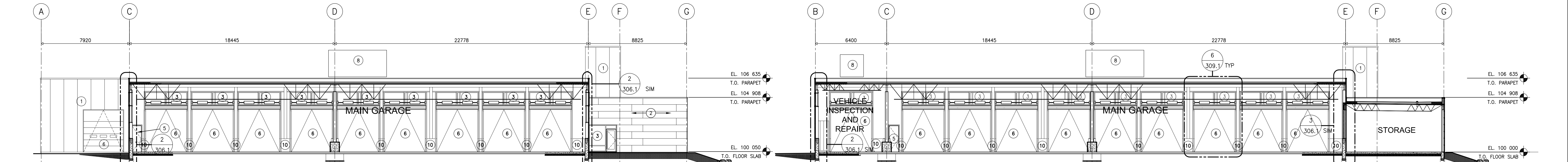
KEYNOTE LEGEND

- 1 VERTICAL INSULATED METAL PANEL TYPE 1
- 2 HORIZONTAL INSULATED METAL PANEL TYPE 2
- 3 GLAZING IN EXTERIOR ALUMINUM FRAME
- 4 OPEN TO BEYOND
- 5 HOLLOW METAL DOOR, PAINTED
- 6 PRE-FINISHED METAL OVERHEAD DOOR
- 7 PRE-FINISHED METAL FLASHING
- 8 ROOF TOP MECHANICAL UNIT
- 9 PRE-FINISHED OVER FLOW SCUPPER
- 10 1200 HIGH CONCRETE UPSTAND



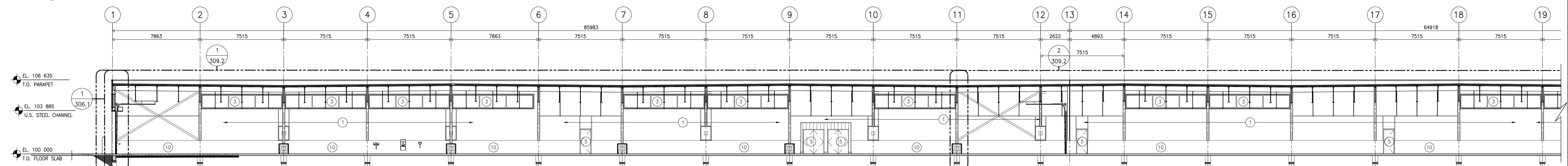
1 BUILDING SECTION
304 SCALE: 1:150

2 BUILDING SECTION
304 SCALE: 1:150

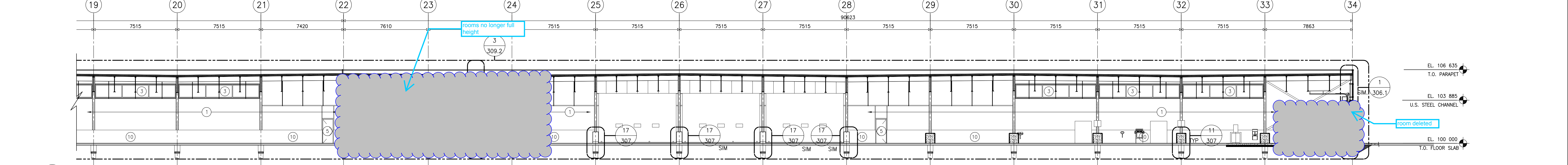


3 BUILDING SECTION
304 SCALE: 1:150

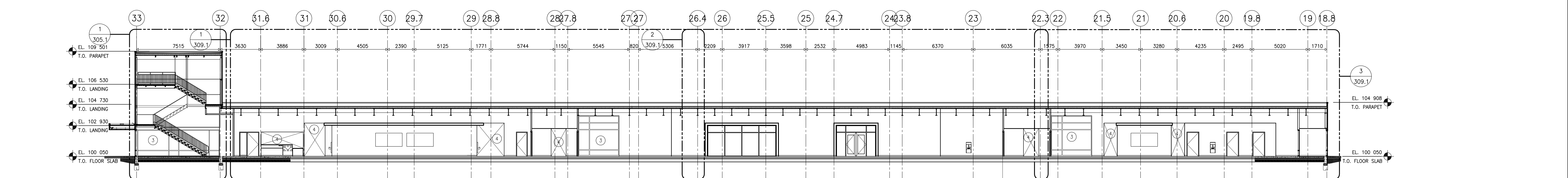
4 BUILDING SECTION
304 SCALE: 1:150



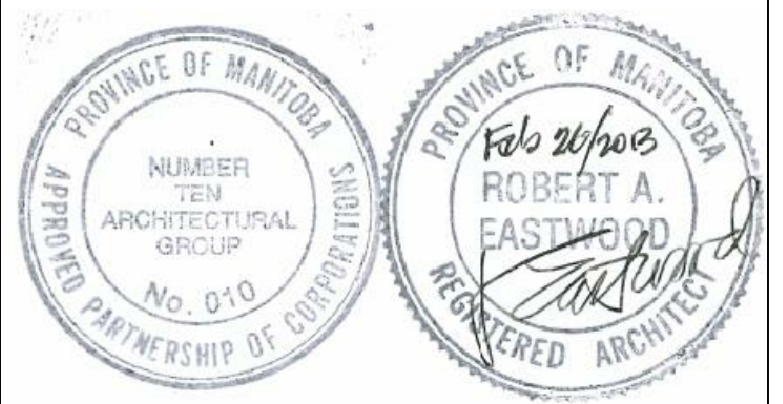
5 PART. BUILDING SECTION
304 SCALE: 1:150



6 PART. BUILDING SECTION
304 SCALE: 1:150



7 PART. BUILDING SECTION
304 SCALE: 1:150



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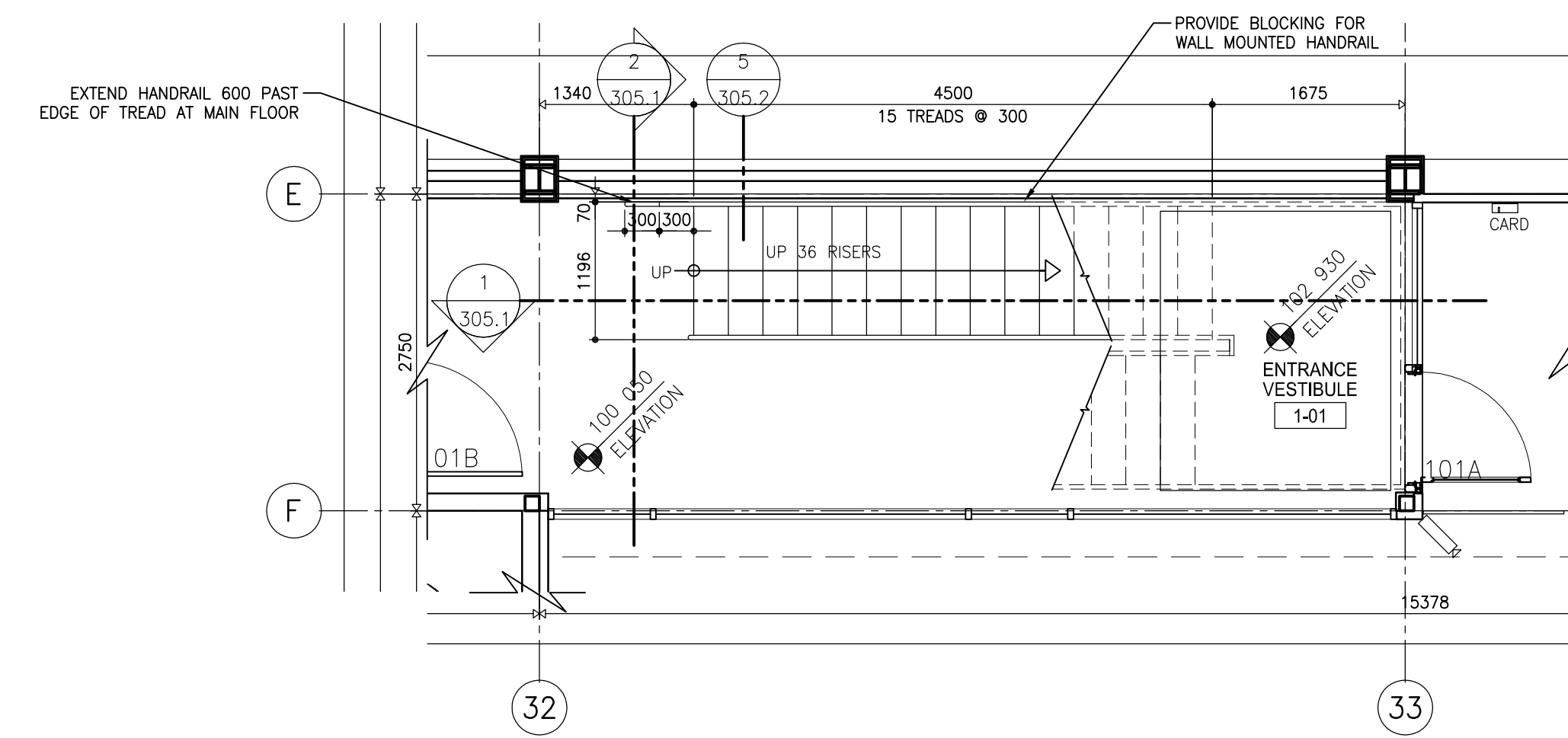
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

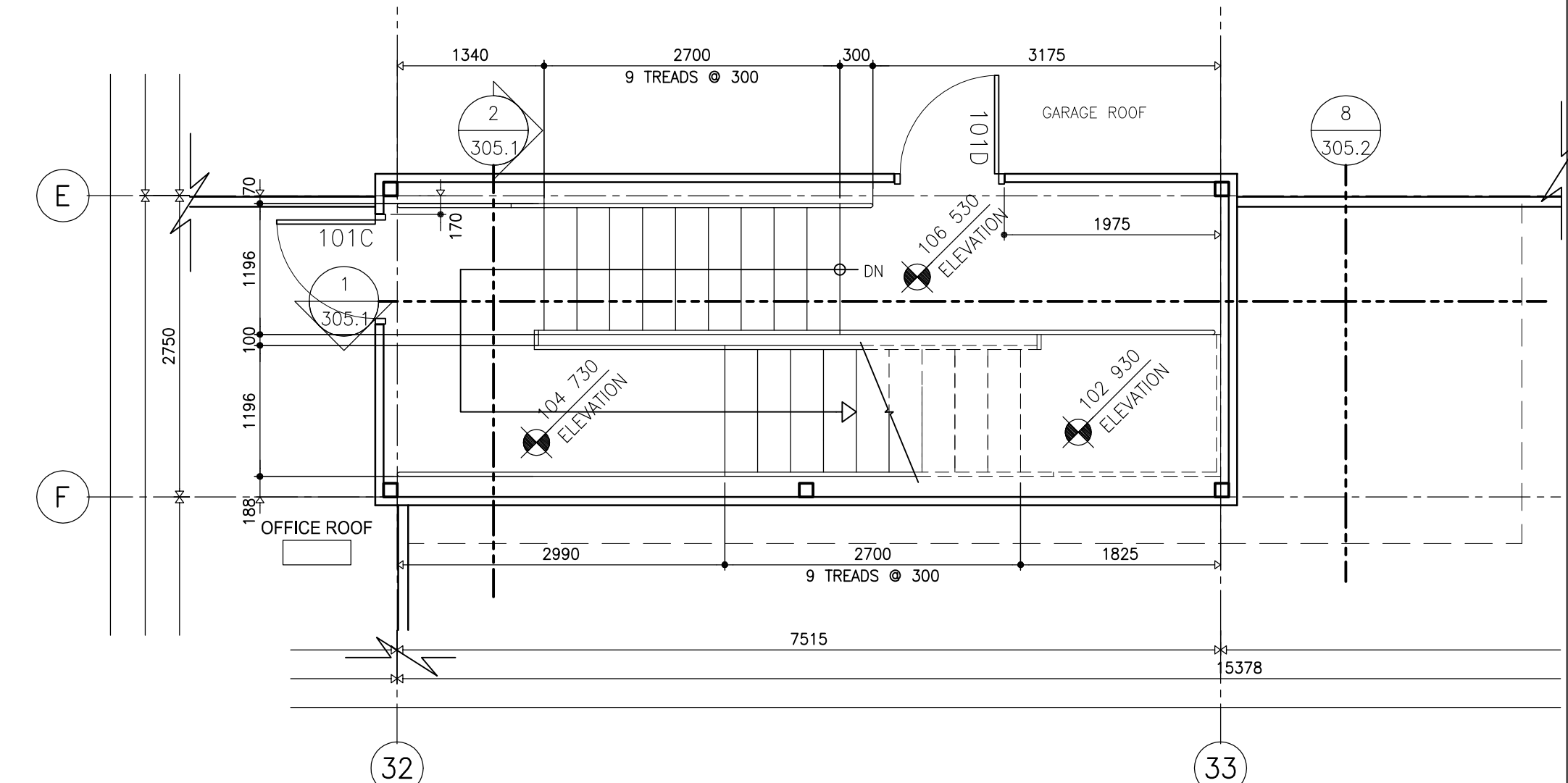
BUILDING SECTIONS

Project number	2012021
Date	JULY 18, 2012
Drawn by	M.S., R.C.
Checked by	R.E.

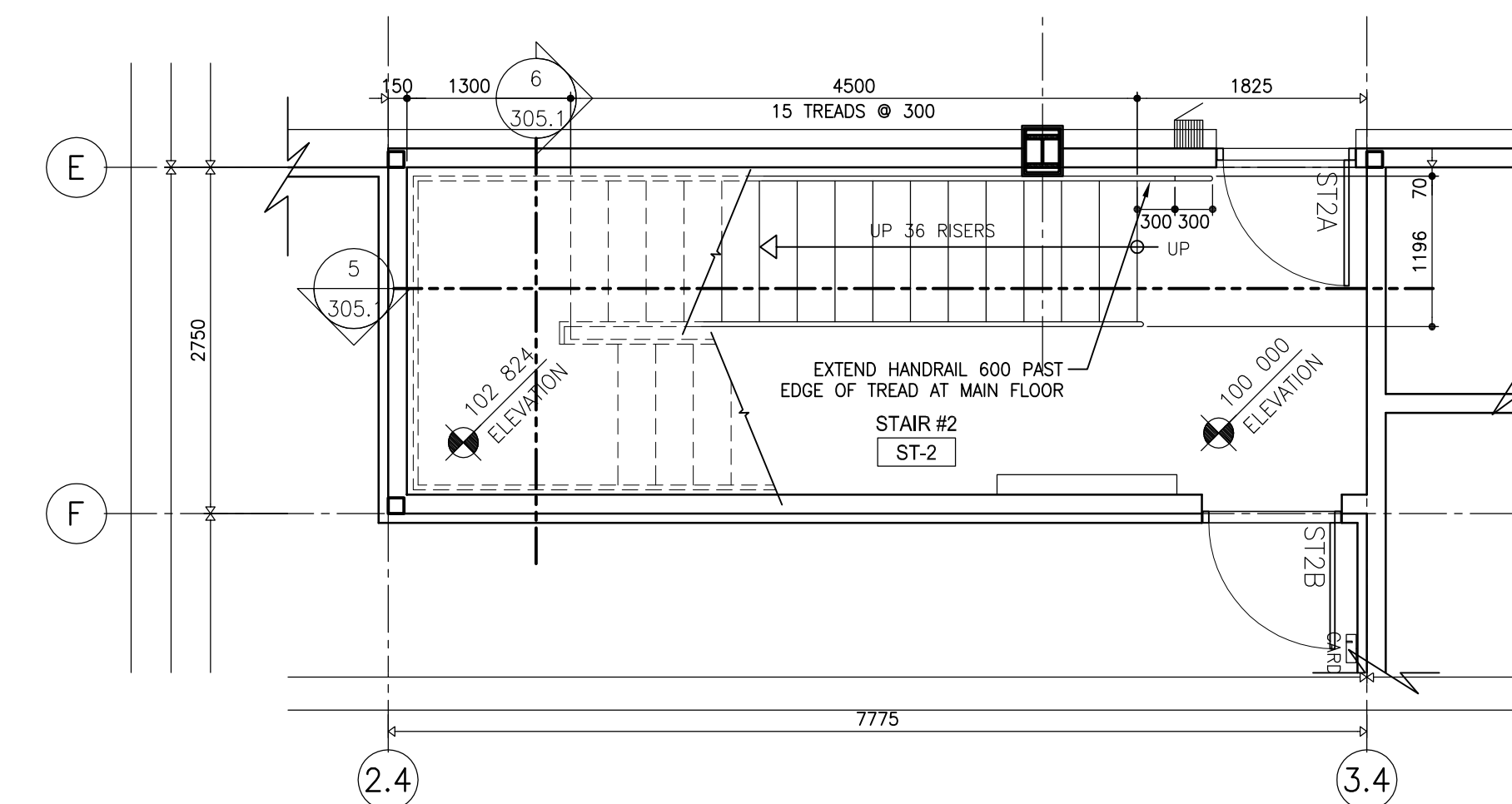
REVISION / ISSUED / PLOTTED	DATE
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



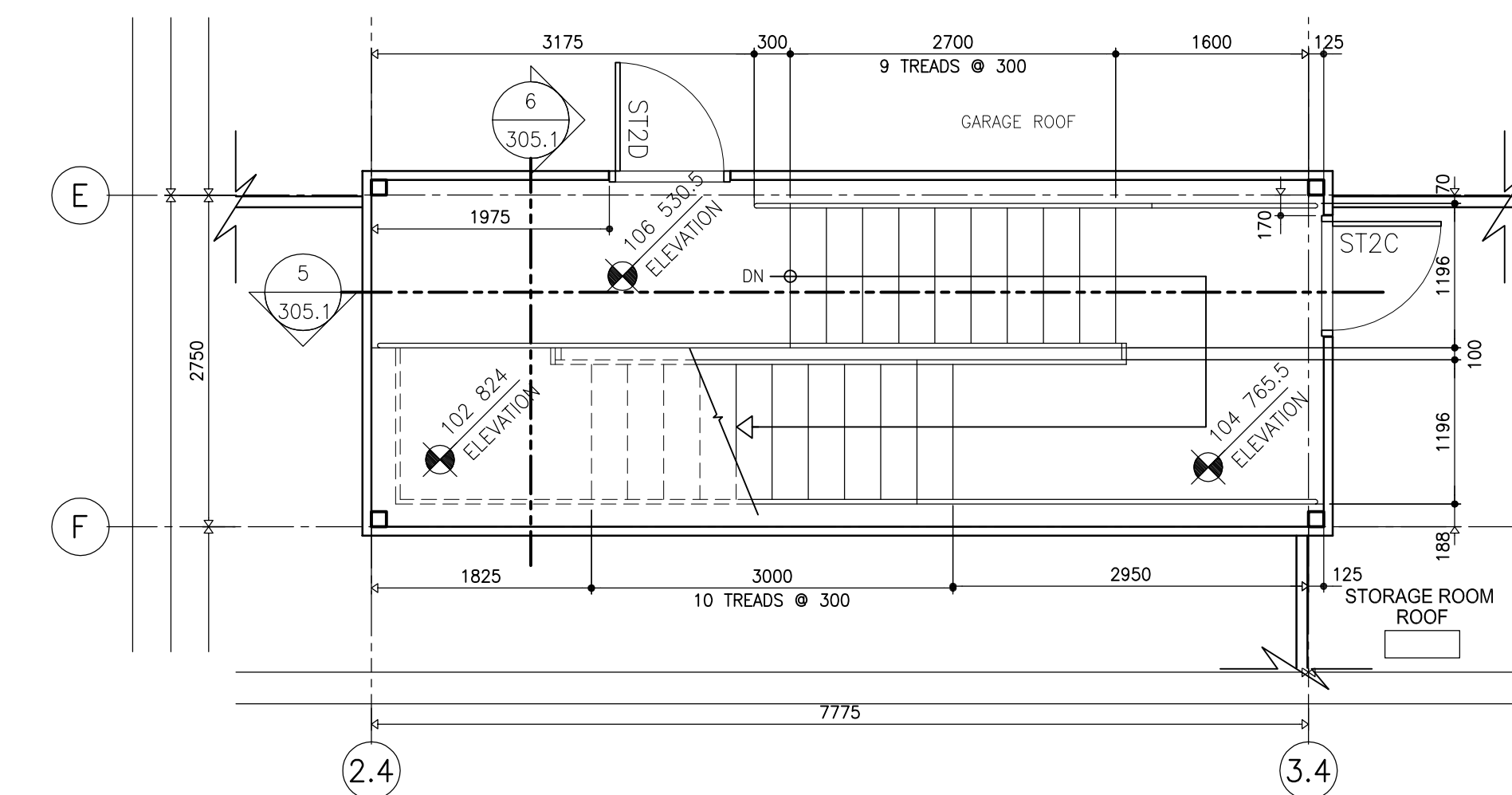
3 PART. STAIR PLAN ENTRANCE VESTIBULE 1-01
305.1 SCALE: 1:50



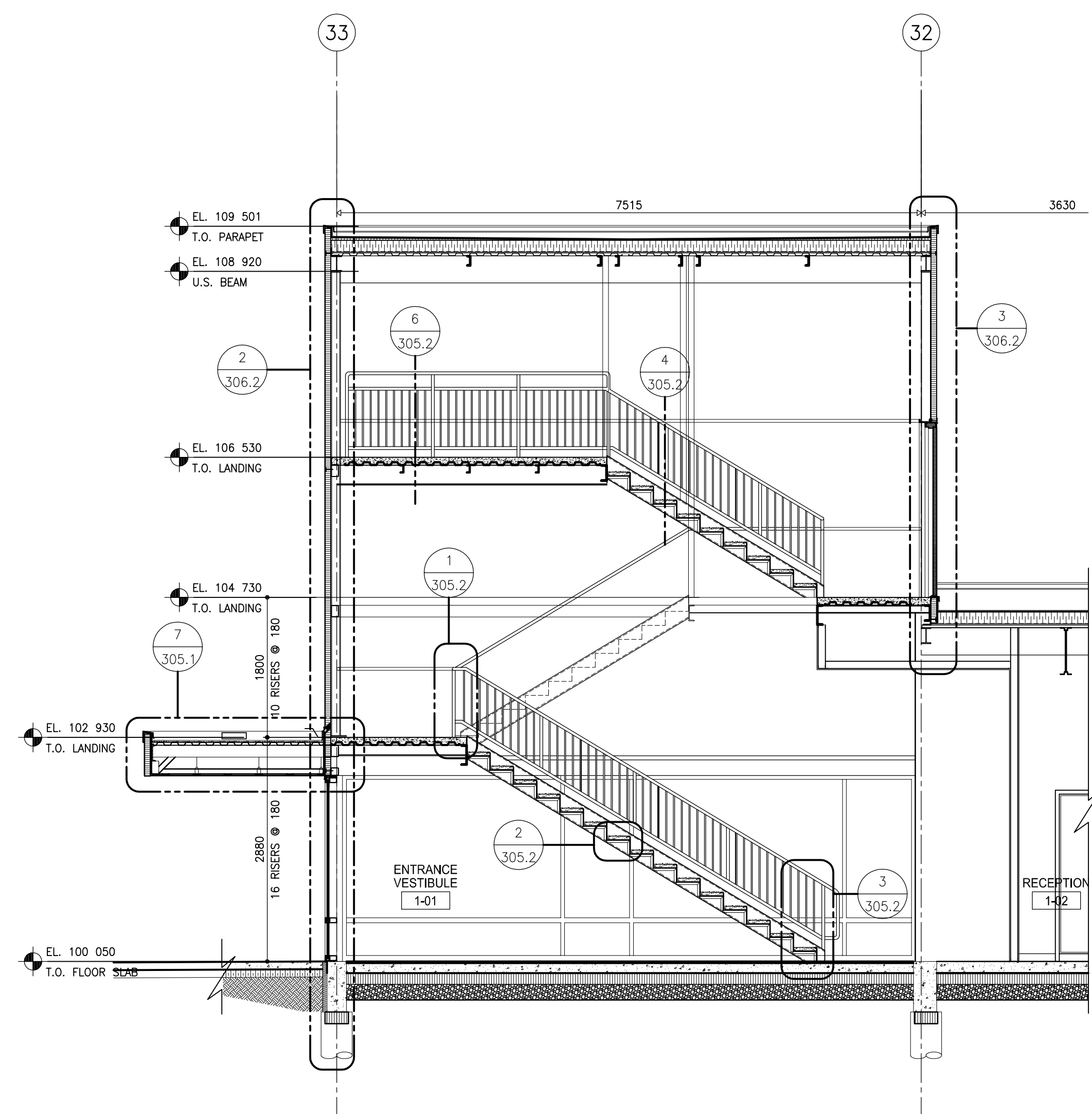
4 PART. UPPER STAIR PLAN ENTRANCE VESTIBULE 1-01
305.1 SCALE: 1:50



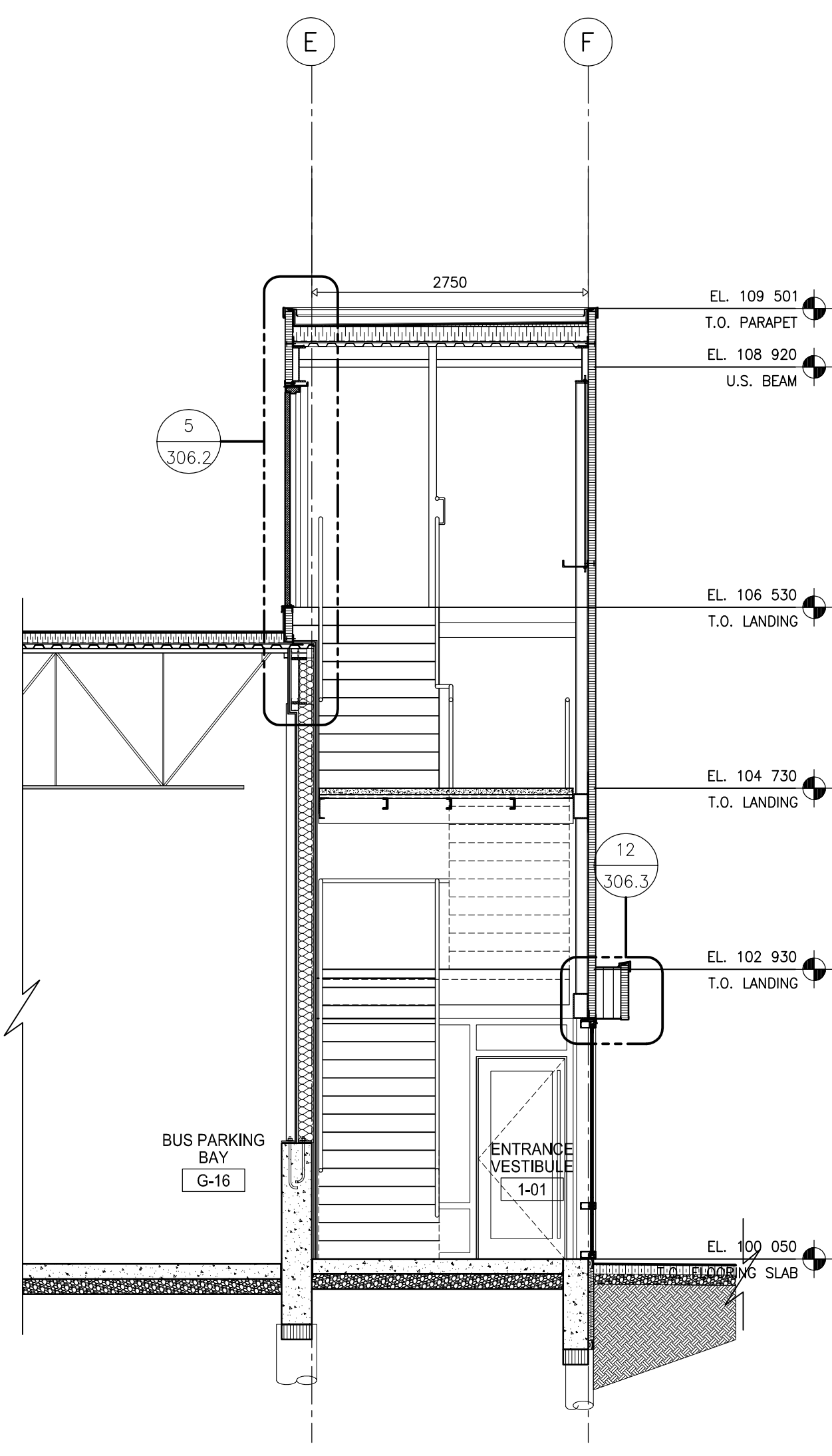
7 PART. STAIR PLAN ST-2
305.1 SCALE: 1:50



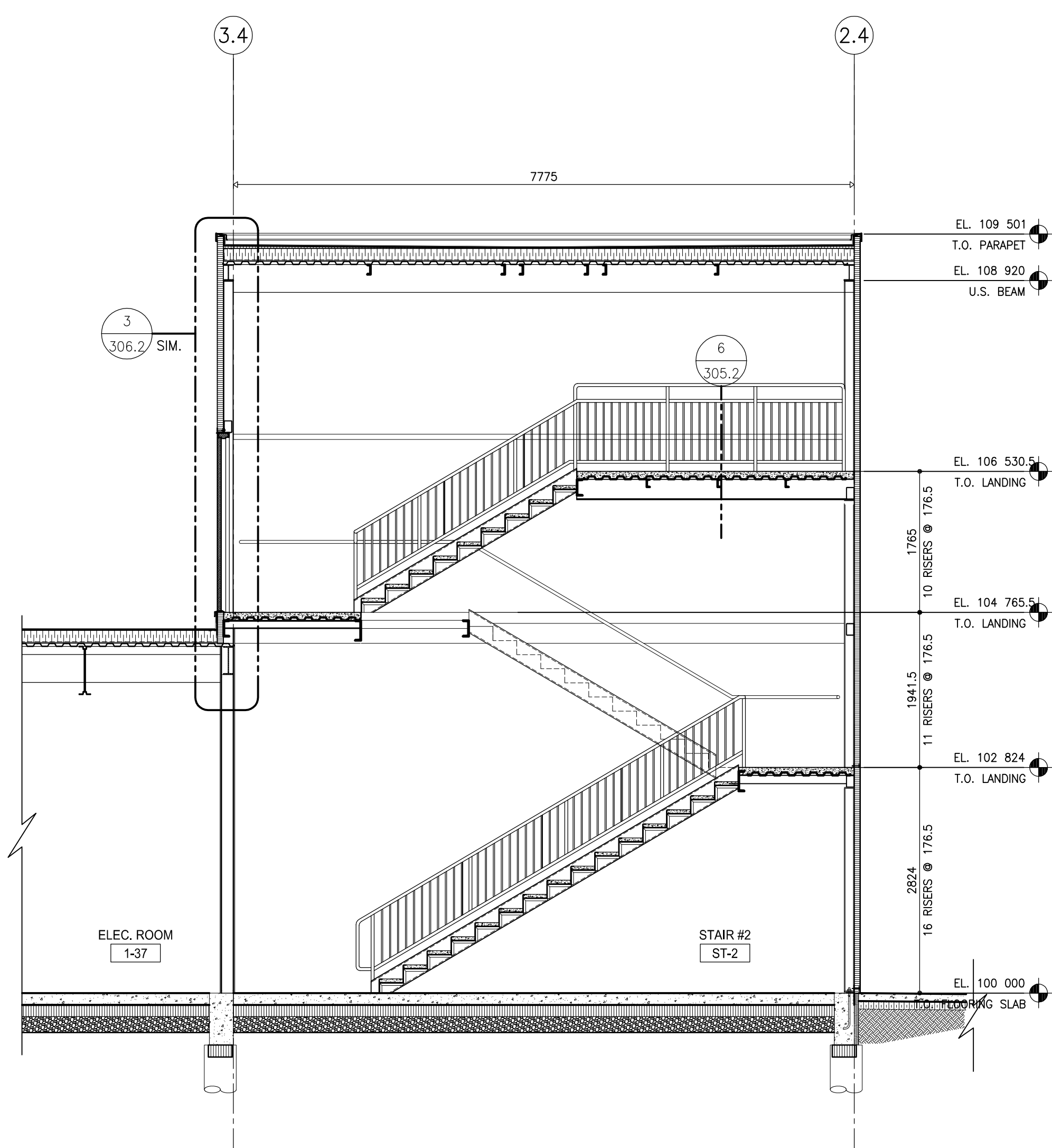
8 PART. UPPER STAIR PLAN ST-2
305.1 SCALE: 1:50



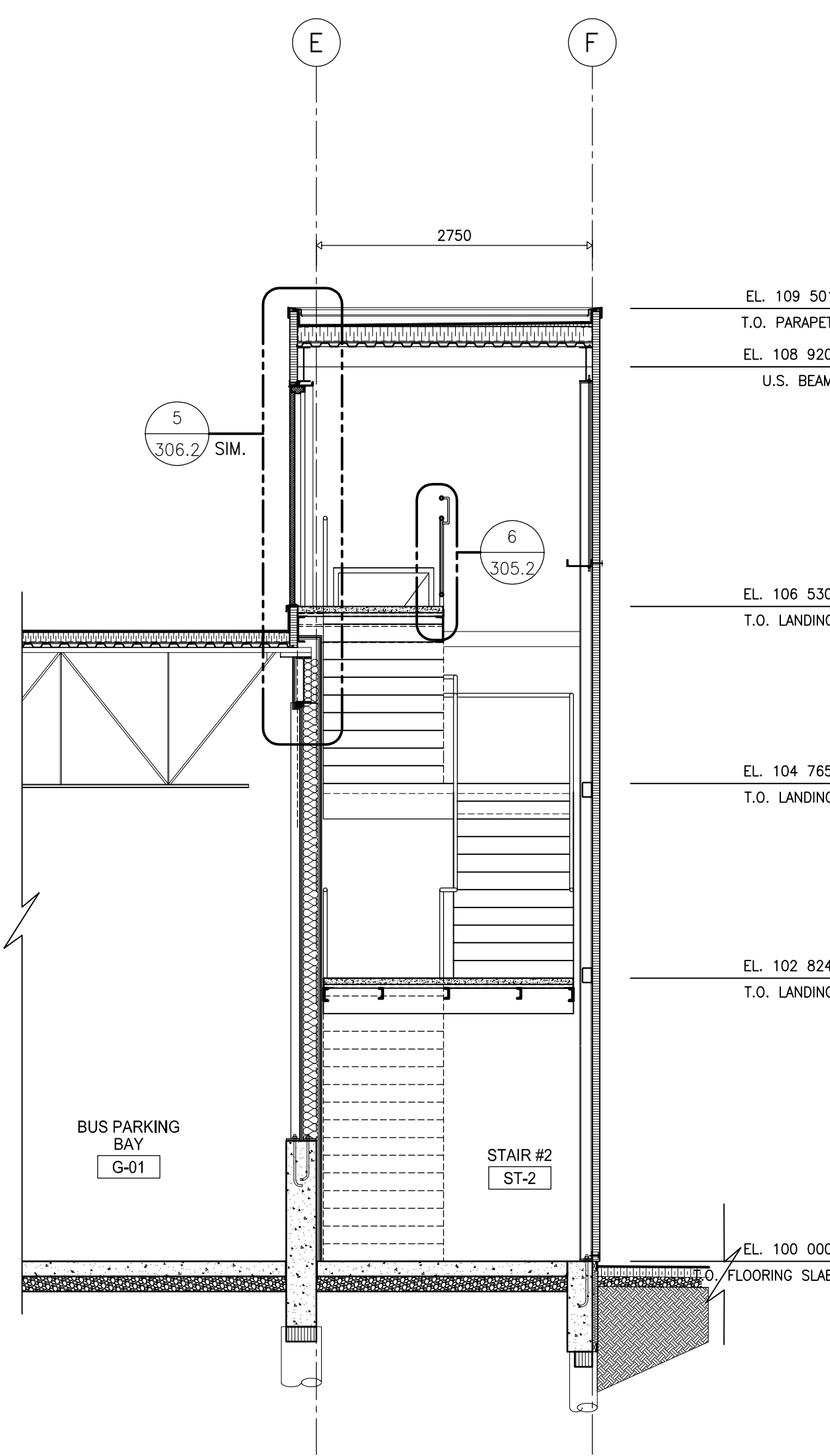
1 SECTION STAIR ENTRANCE VESTIBULE 1-01
305.1 SCALE: 1:50



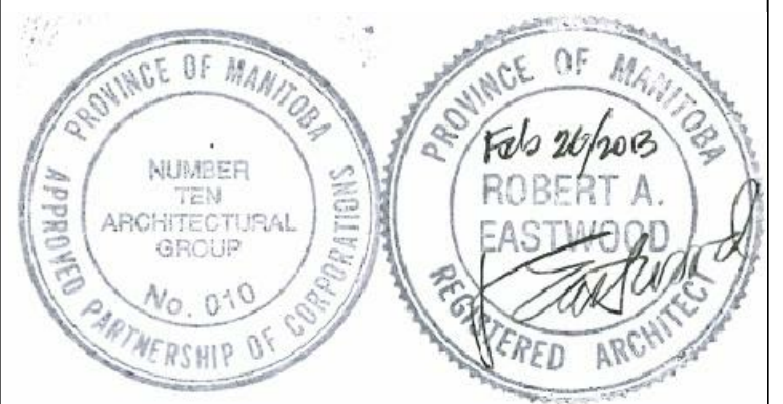
2 SECTION STAIR ENTRANCE VESTIBULE 1-01
305.1 SCALE: 1:50



5 SECTION STAIR ST-2
305.1 SCALE: 1:50



6 SECTION STAIR ST-2
305.1 SCALE: 1:50



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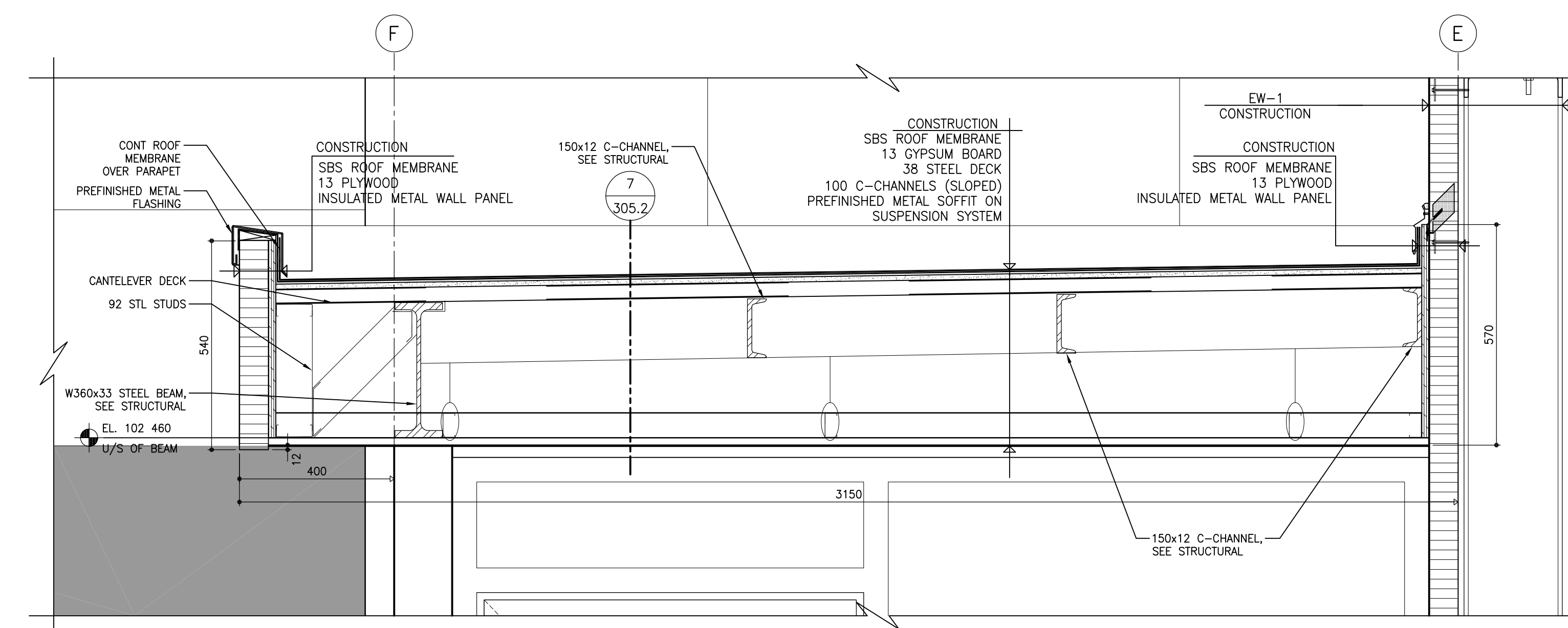
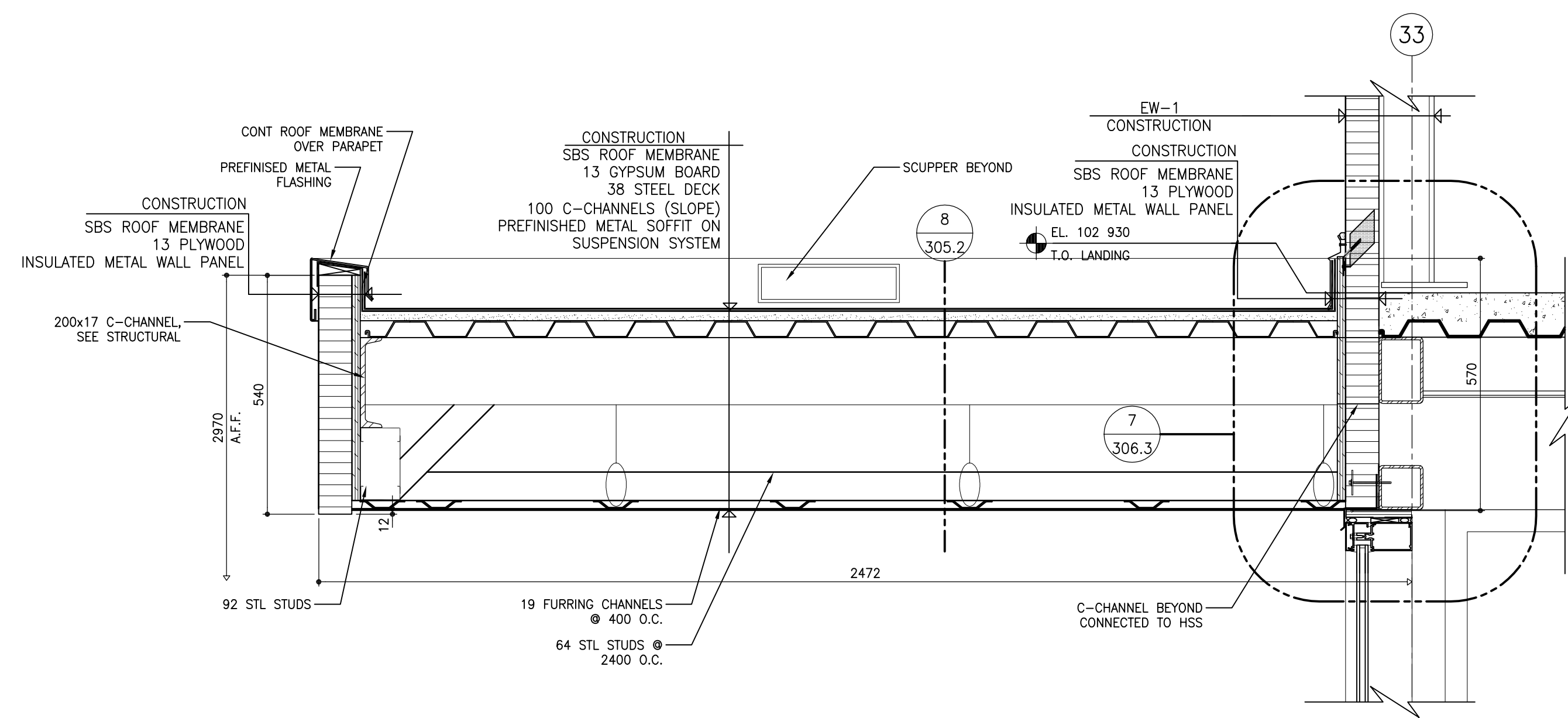
600 Brandon Ave, Winnipeg, Manitoba

STAIRS SECTIONS AND PLANS

Project number	2012021
Date	JULY 18, 2012
Drawn by	R.C.
Checked by	R.E.

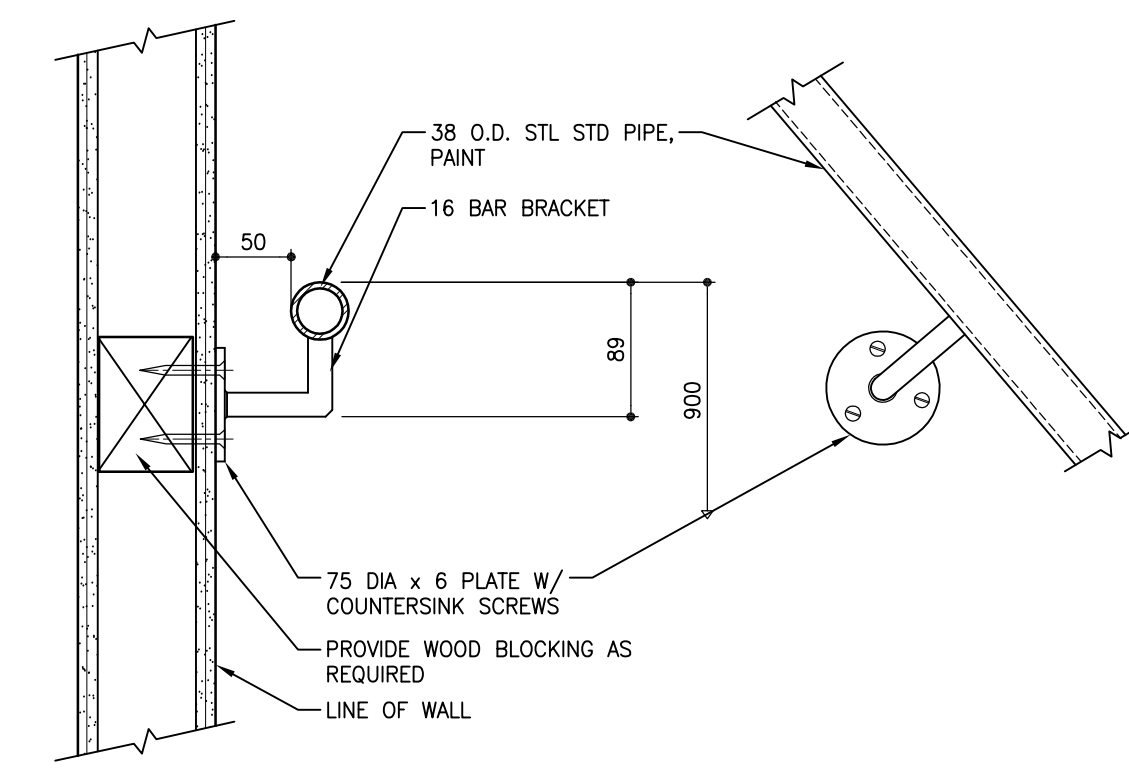
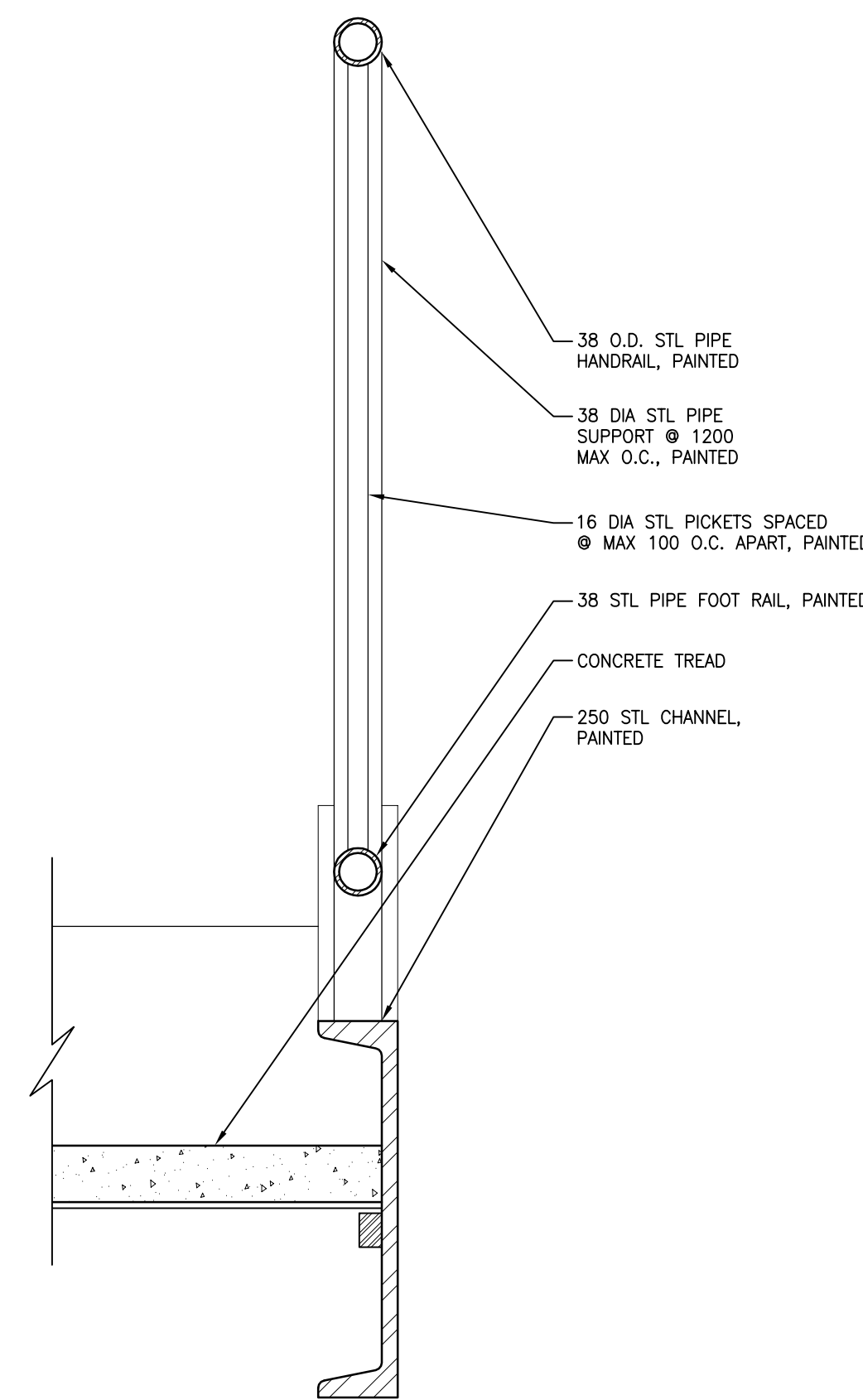
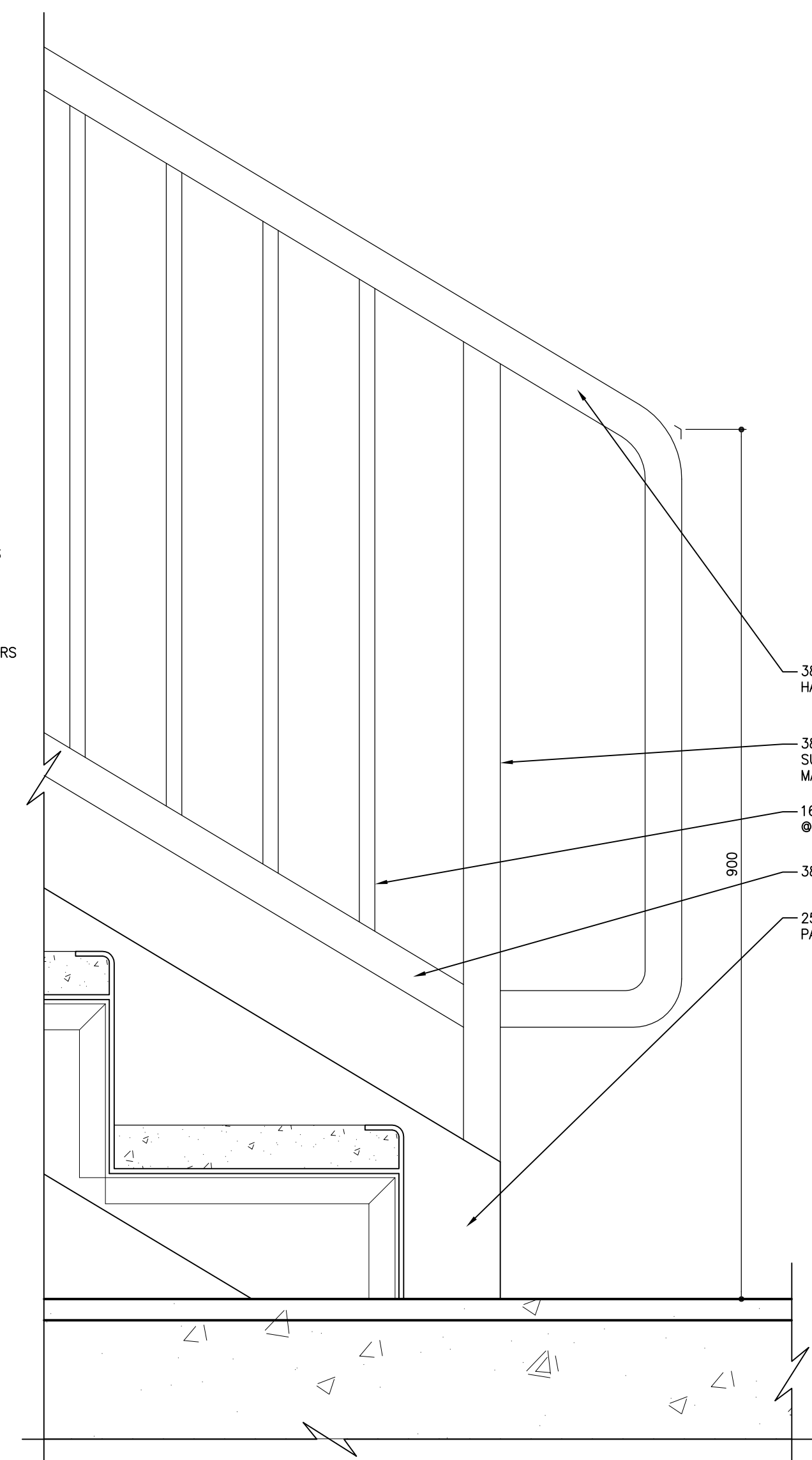
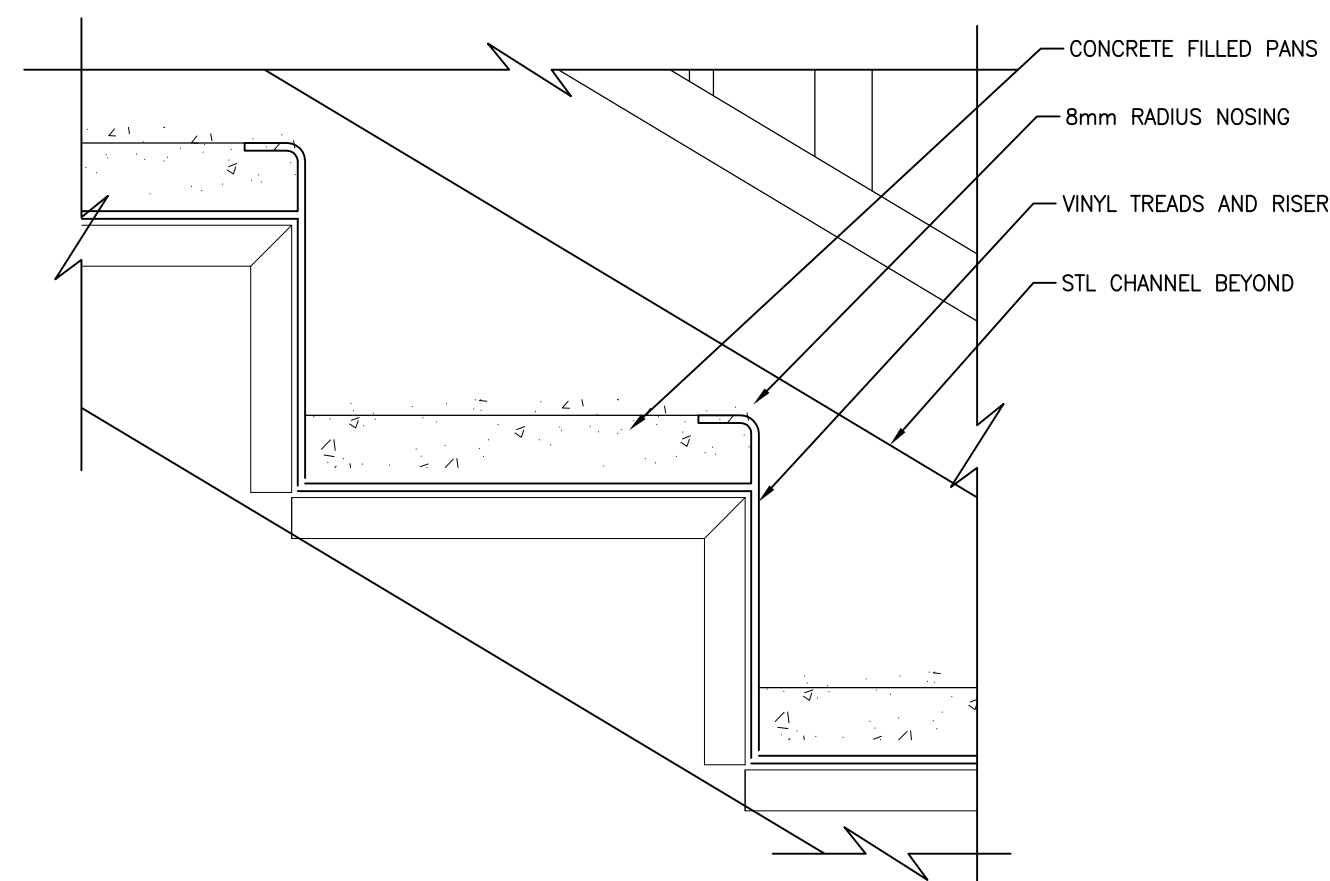
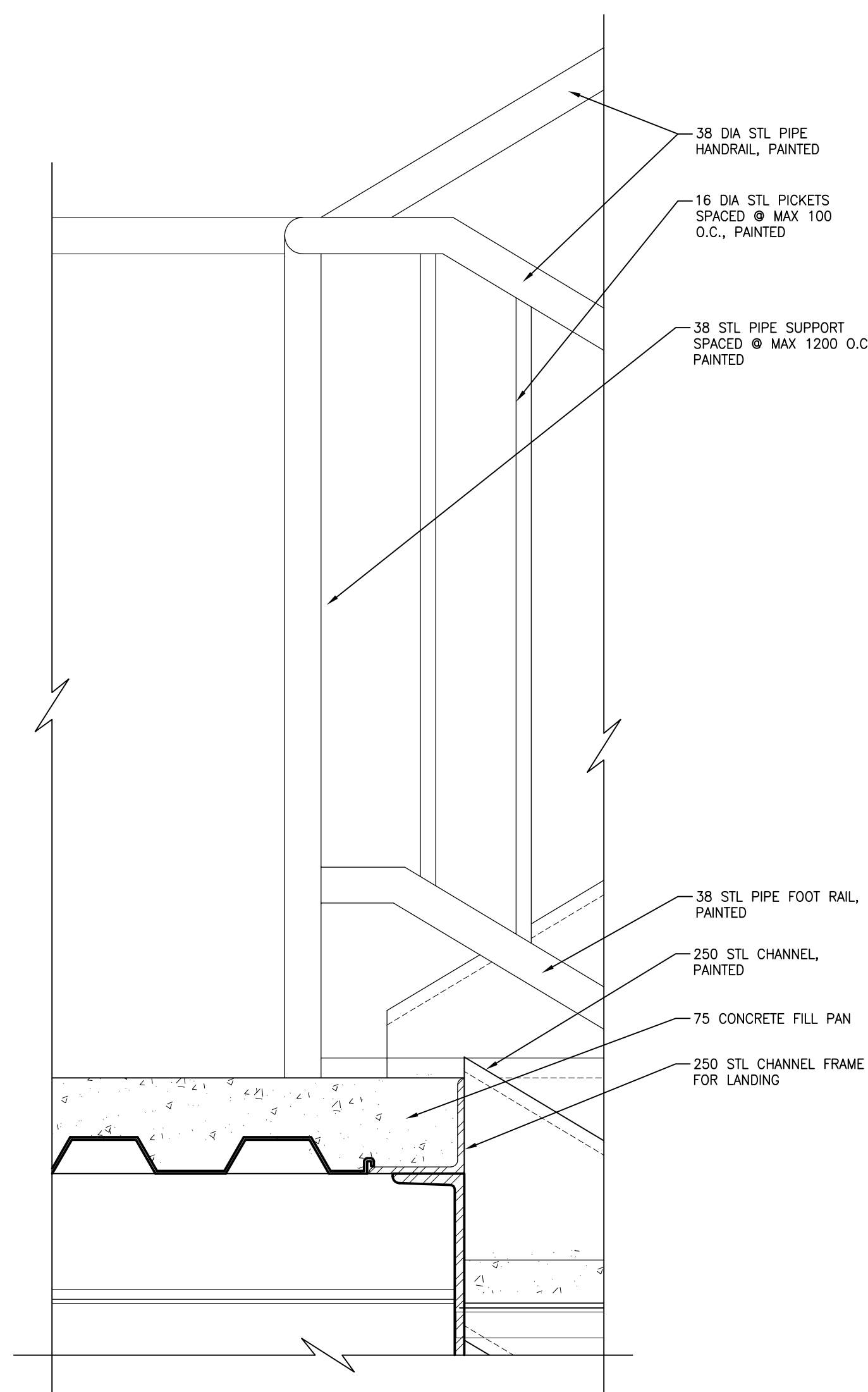
Scale AS NOTED **305.1**

REVISION / ISSUED / PLOTTED	DATE
ISSUED FOR 60% REVIEW	18/07/2012
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

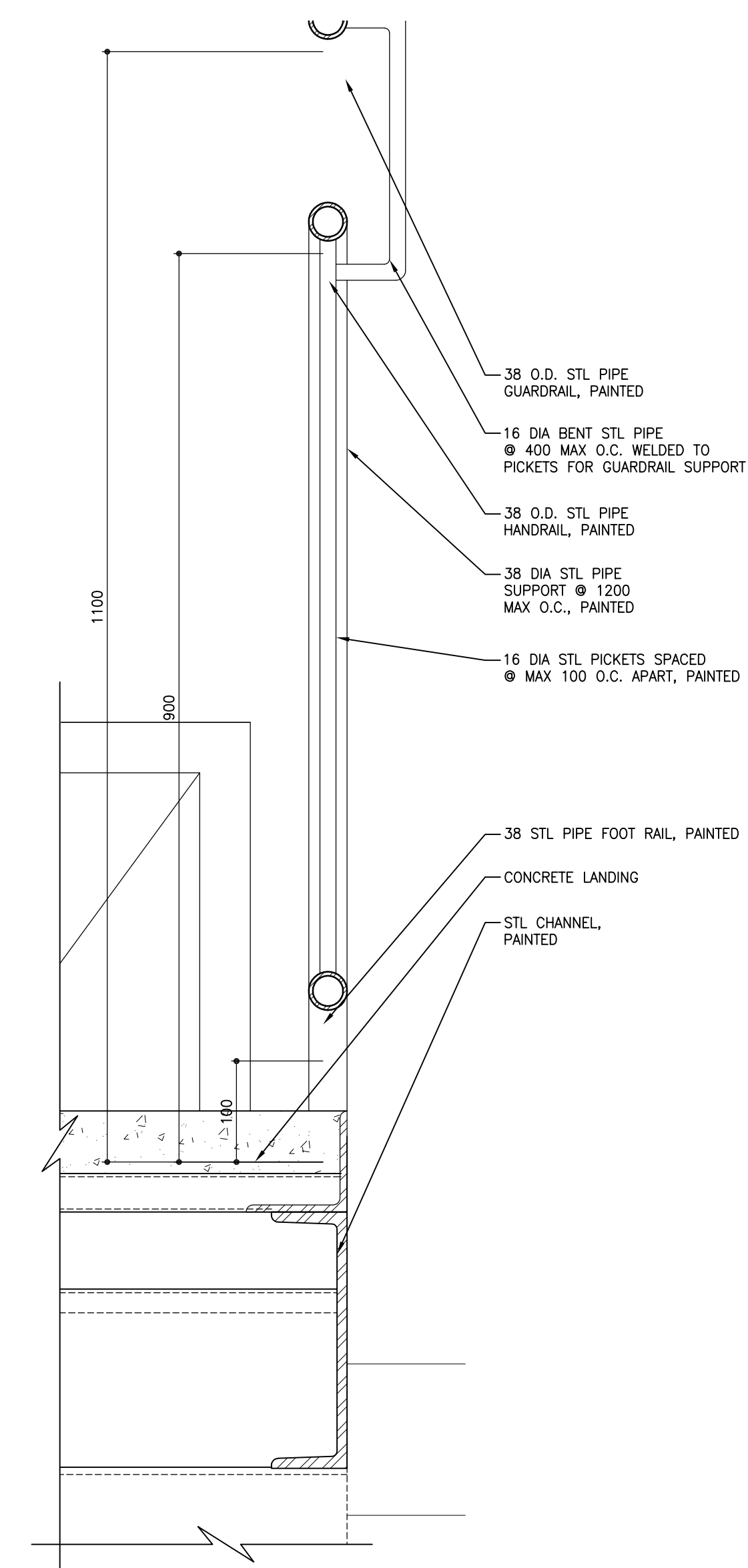


7 SECTION DETAIL - NORTH CANOPY OVERHANG
SCALE: 1:10

8 SECTION DETAIL - NORTH CANOPY OVERHANG
SCALE: 1:10



5 SECTION DETAIL TYPICAL HANDRAIL @ WALL, TYP
SCALE: 1:5



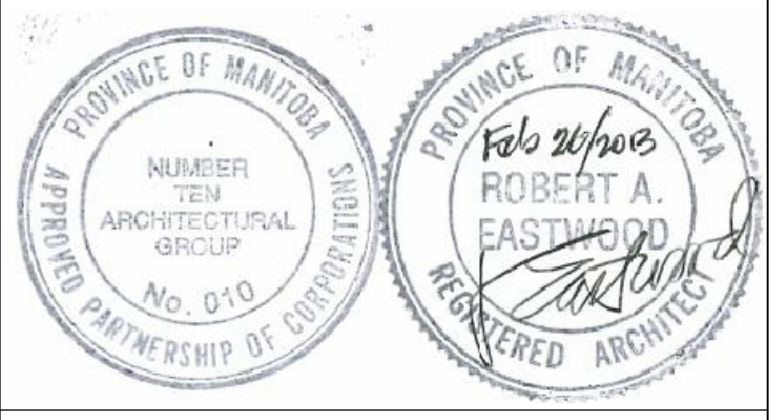
6 SECTION DETAIL TYPICAL HANDRAIL W/ GUARDRAIL
SCALE: 1:5

1 SECTION DETAIL TYPICAL LANDING
SCALE: 1:5

2 SECTION DETAIL TYPICAL STAIR TREAD
SCALE: 1:5

3 SECTION DETAIL TYPICAL HANDRAIL
SCALE: 1:5

4 SECTION DETAIL TYPICAL HANDRAIL
SCALE: 1:5



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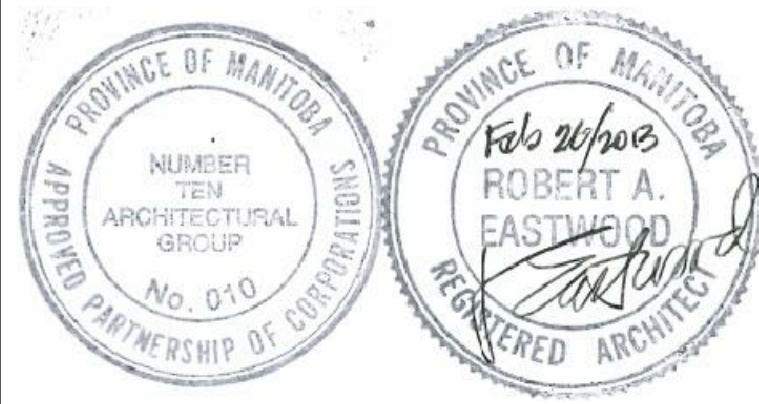
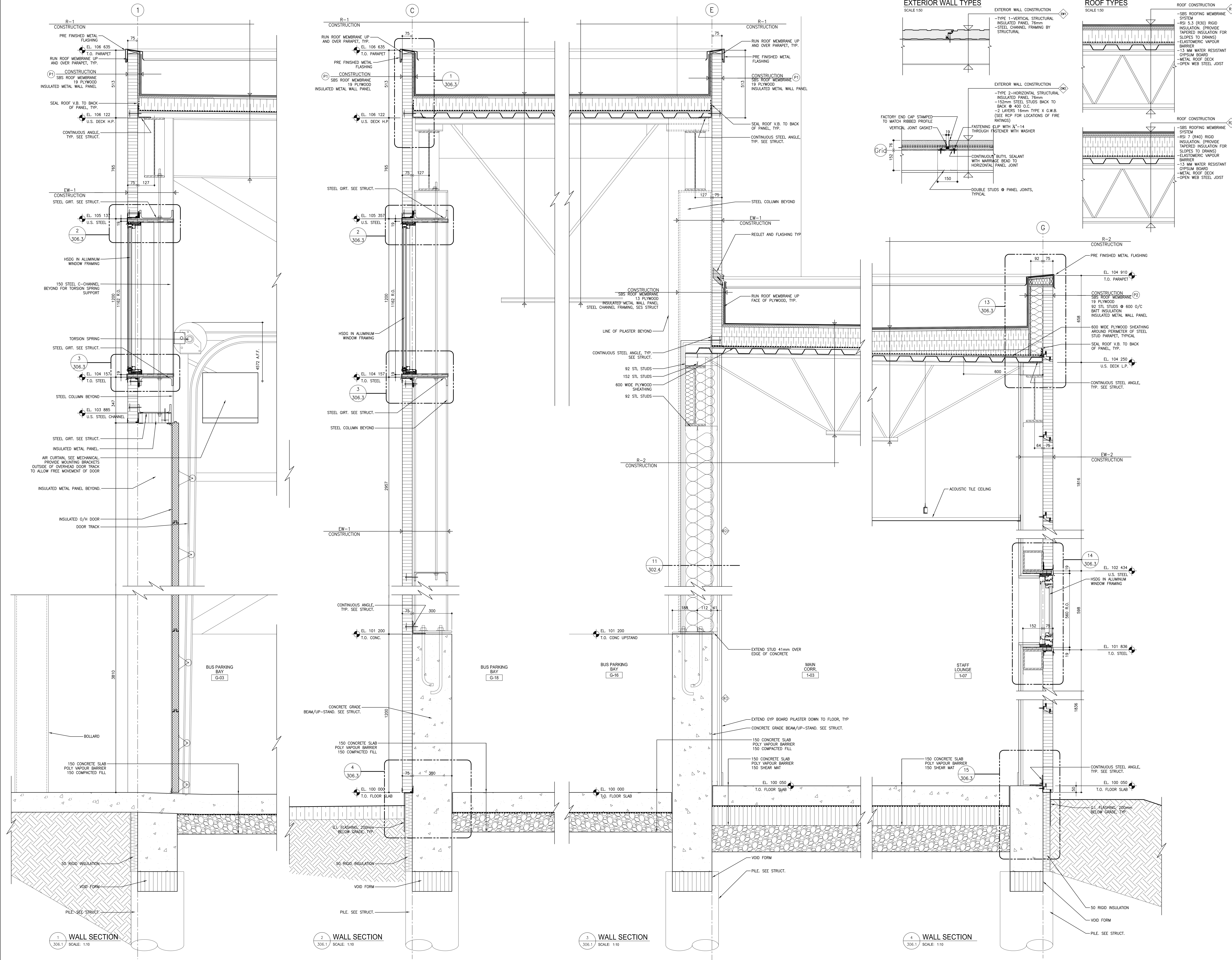
600 Brandon Ave, Winnipeg, Manitoba

STAIR AND CANOPY
SECTION AND PLAN DETAILS

Project number	2012021
Date	JULY 18, 2012
Drawn by	R.C.
Checked by	R.E.

Scale AS NOTED **305.2**

REVISION / ISSUED / PLOTTED	DATE
ISSUED FOR 60% REVIEW	18/07/2013
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



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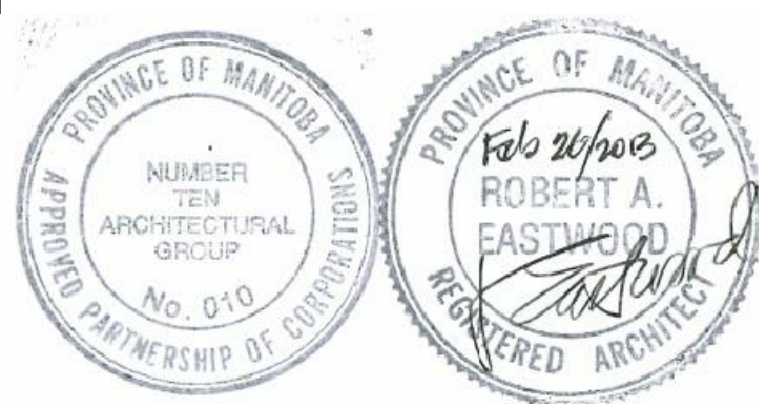
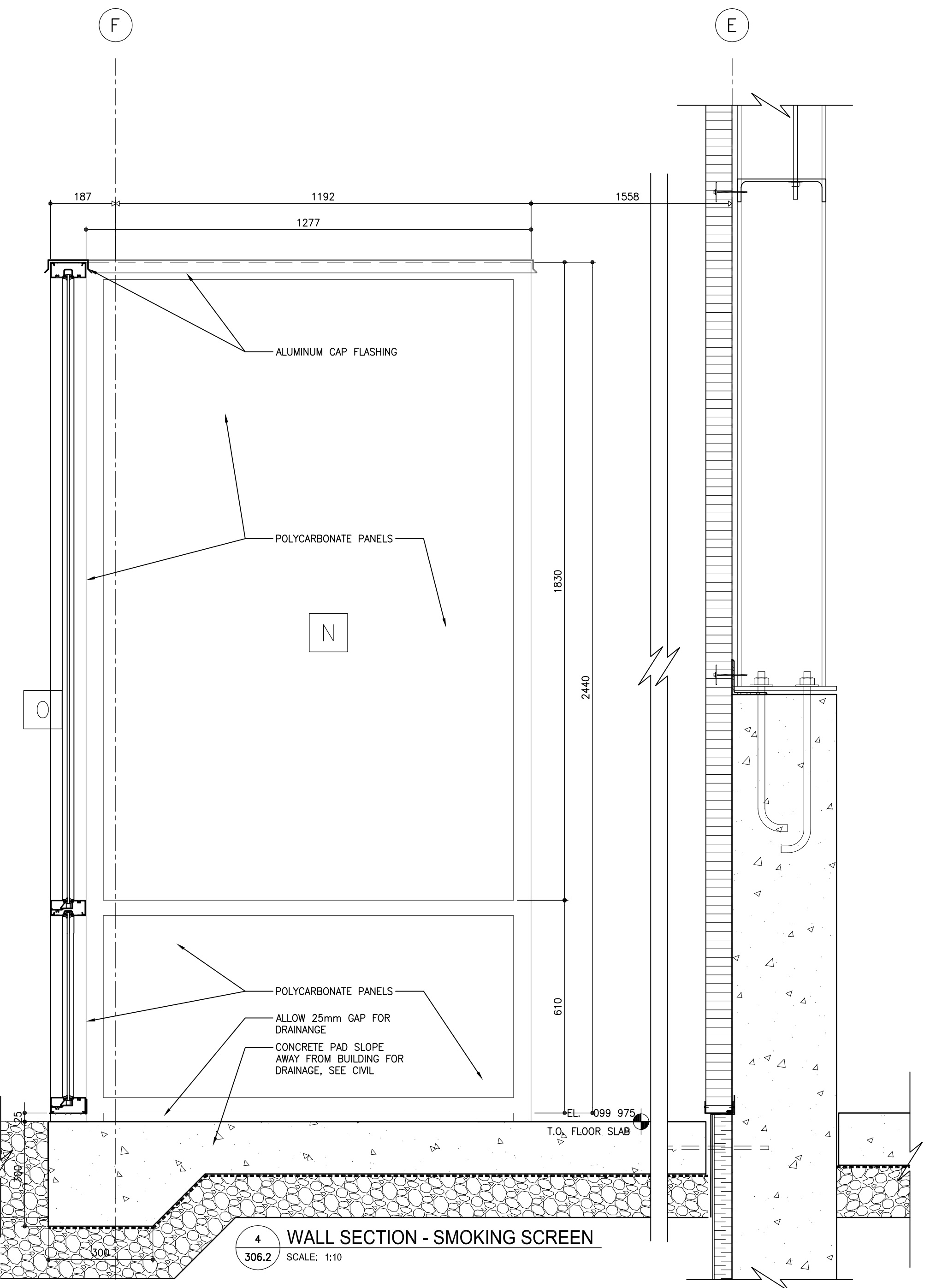
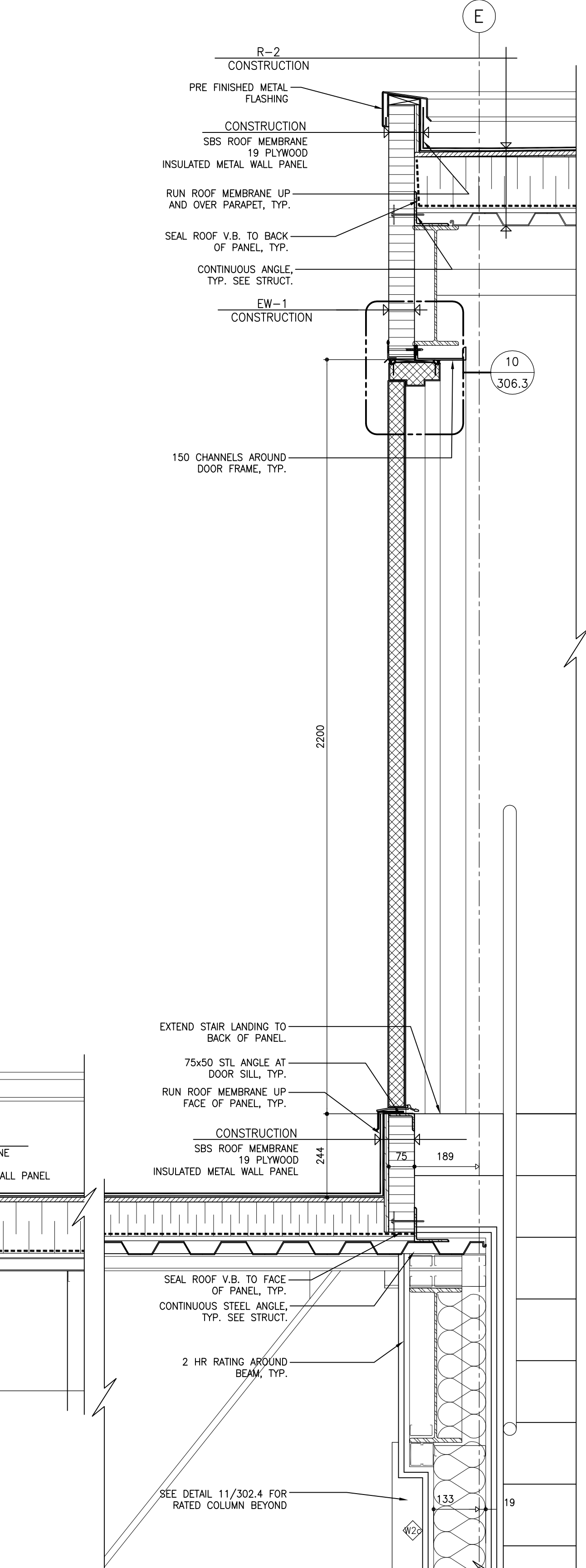
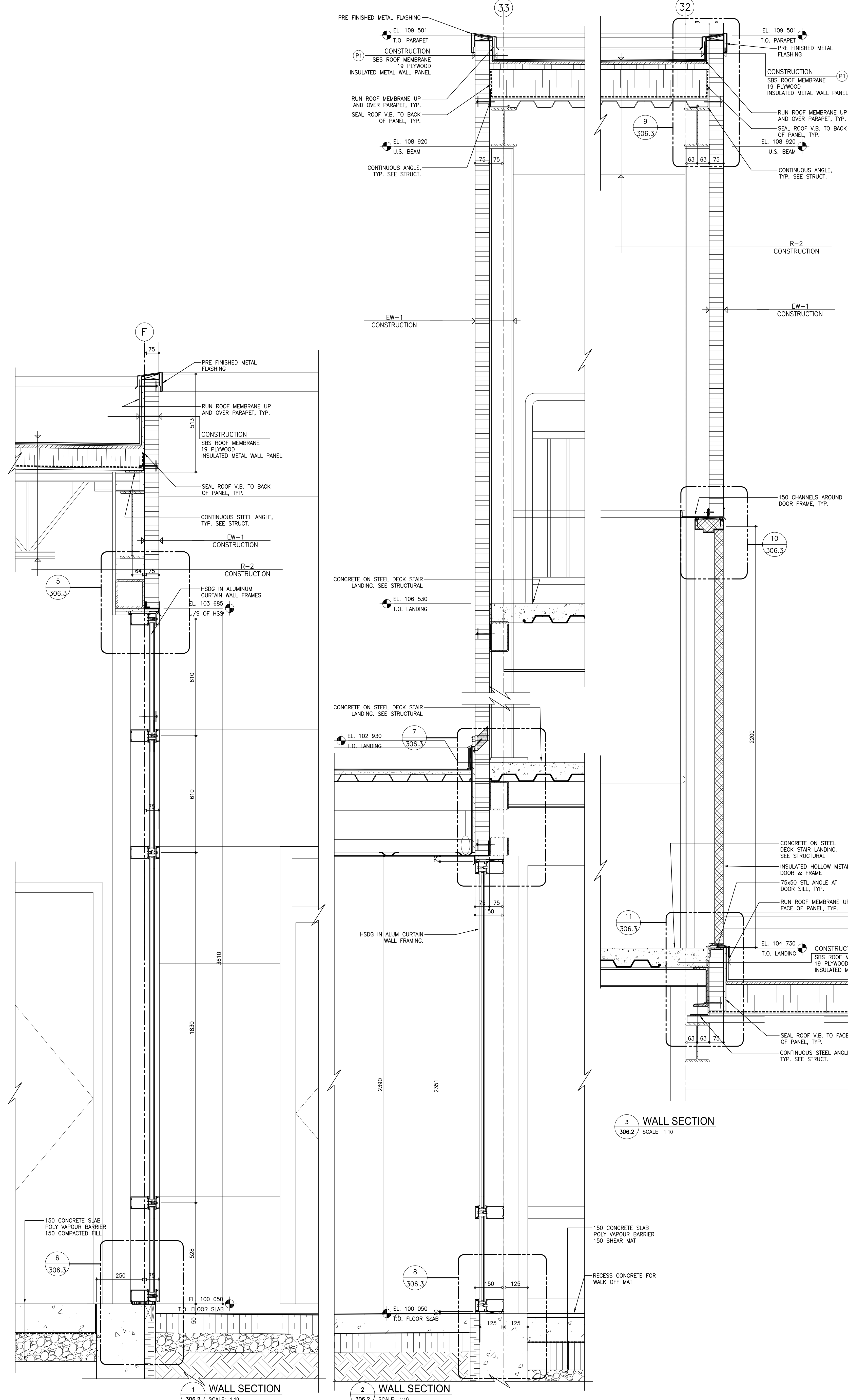
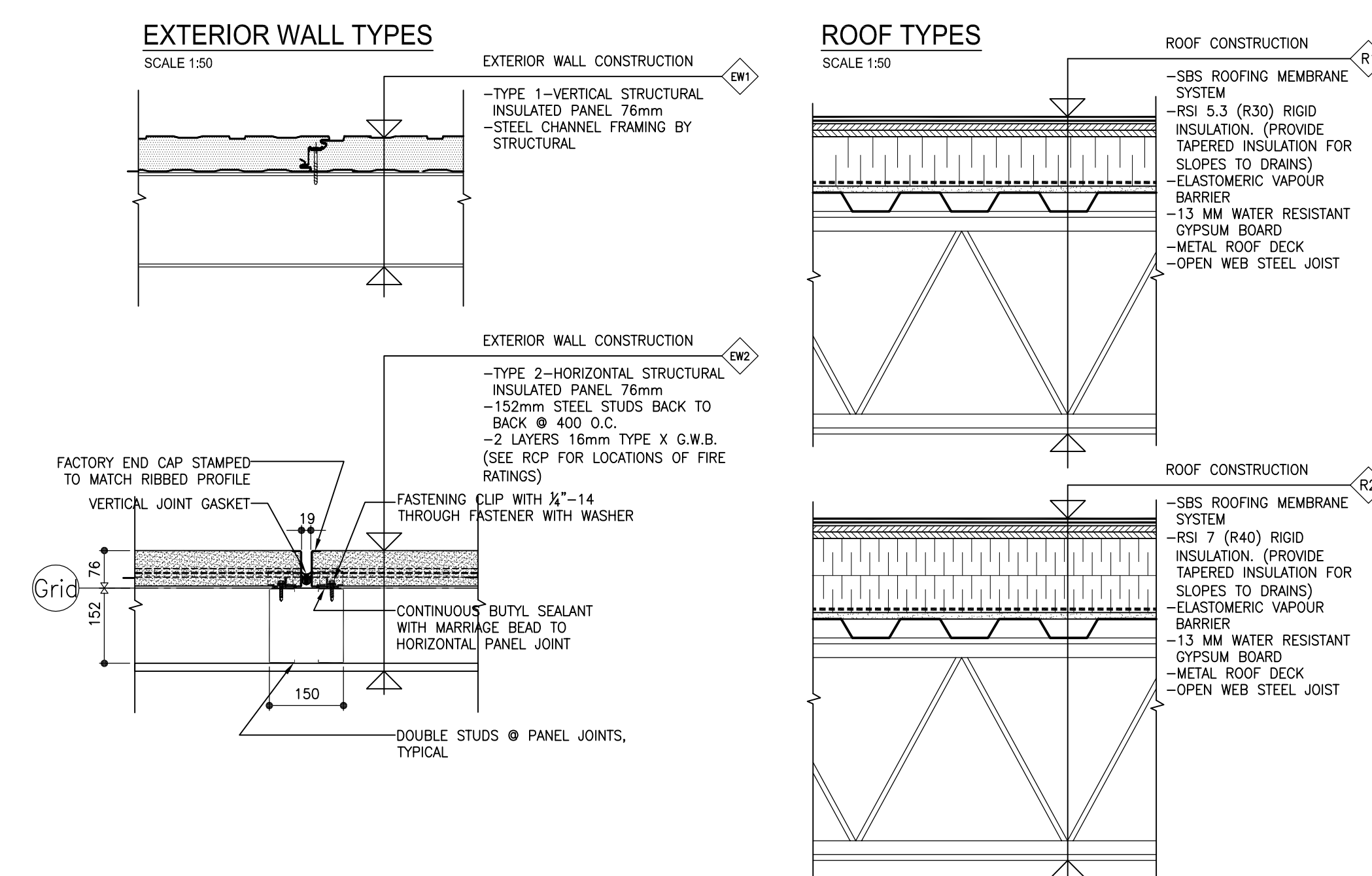
TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

WALL SECTIONS	
Project number	2012021
Date	DEC. 7, 2012
Drawn by	M.S., R.C.
Checked by	R.E., K.F.

Scale AS NOTED **306.1**

P:2012/2012021 - City of Winnipeg Transit Garage 3.0 Contract Documents/Working Drawings/Current Drawings/306.1-3-WALL SECTIONS.dwg

REVISION / ISSUED / PLOTTED	DATE
ISSUED FOR 60% REVIEW	18/07/2013
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



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numberTEN
architectural group

WINNIPEG MB REGINA SK VICTORIA BC
204 942.0981 306 721.1501 250 360.2106

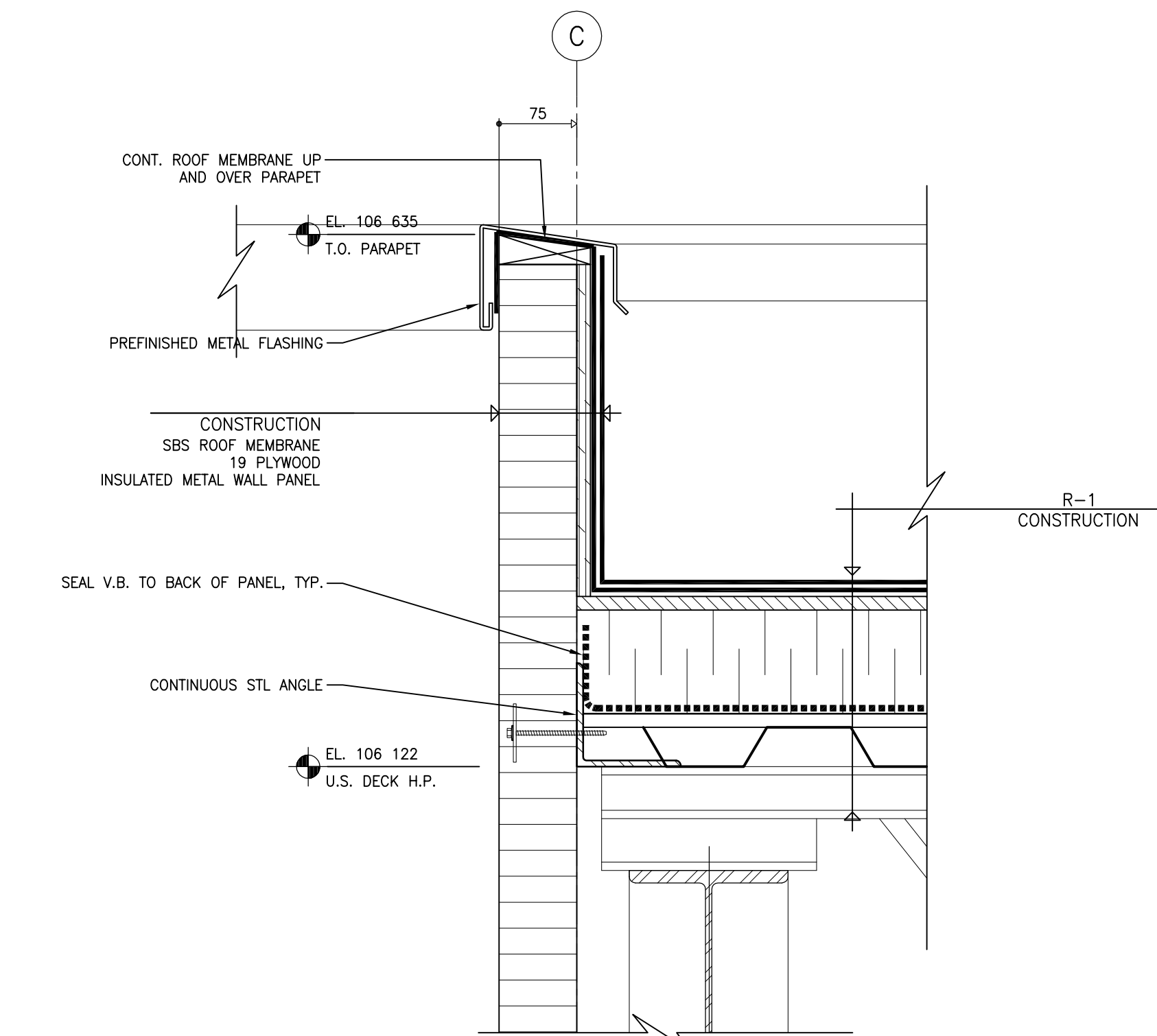
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TRANSIT BUS PARKING & SERVICE GARAGE

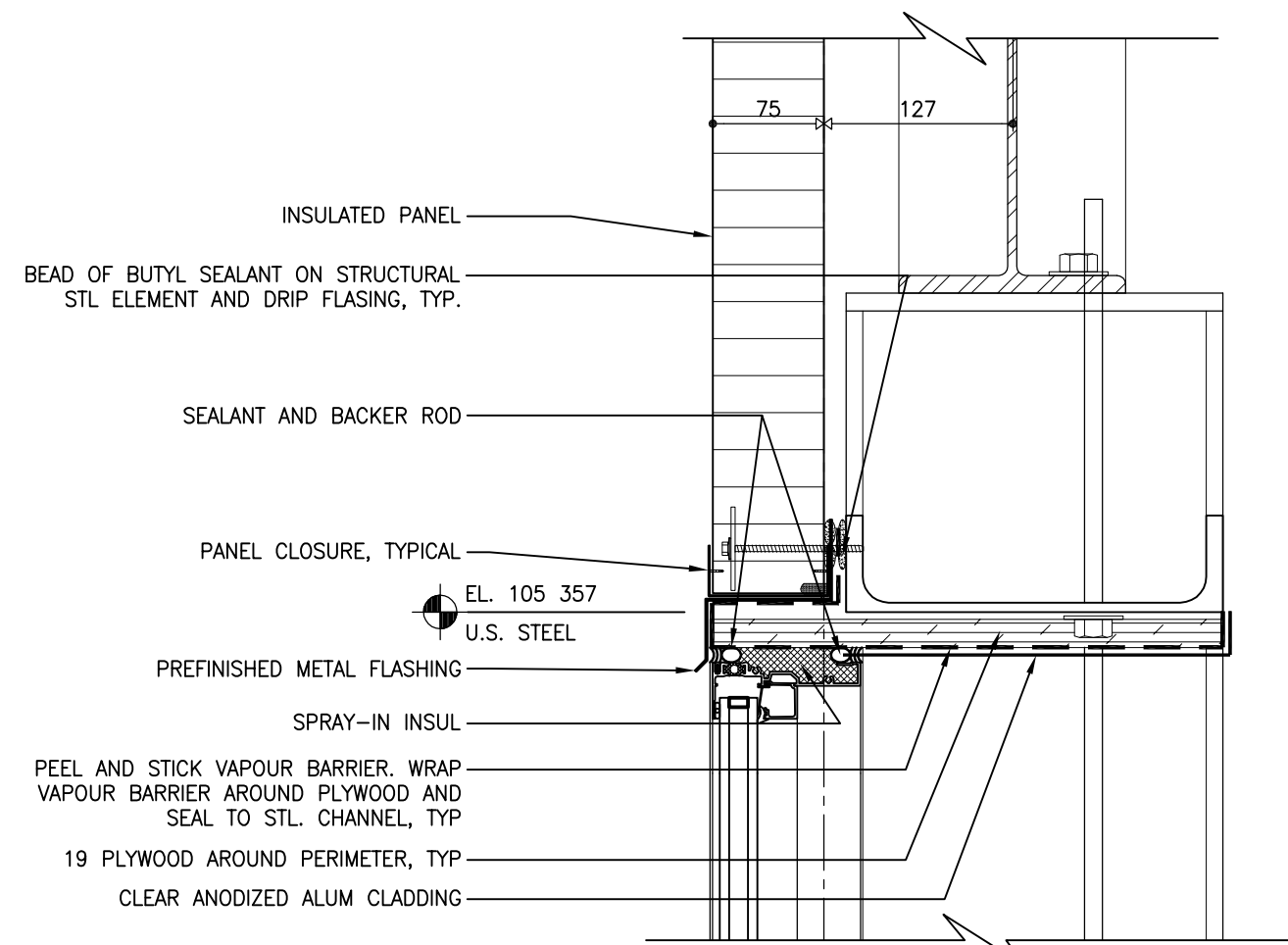
600 Brandon Ave, Winnipeg, Manitoba

WALL SECTIONS	
Project number	2012021
Date	DEC. 7, 2012
Drawn by	M.S., R.C.
Checked by	R.E., K.F.

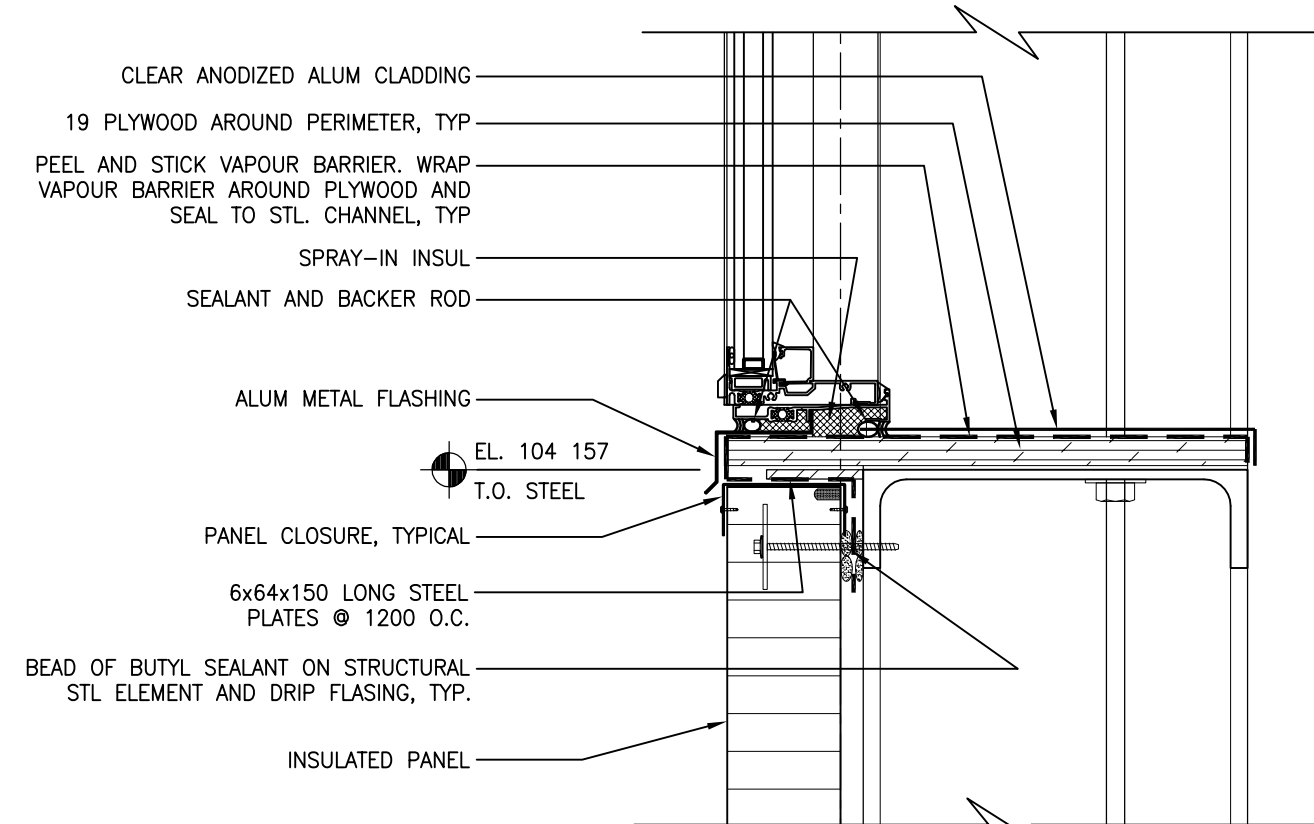
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 60% REVIEW	18/07/2013
ISSUED FOR 90% SUBMISSION	22/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



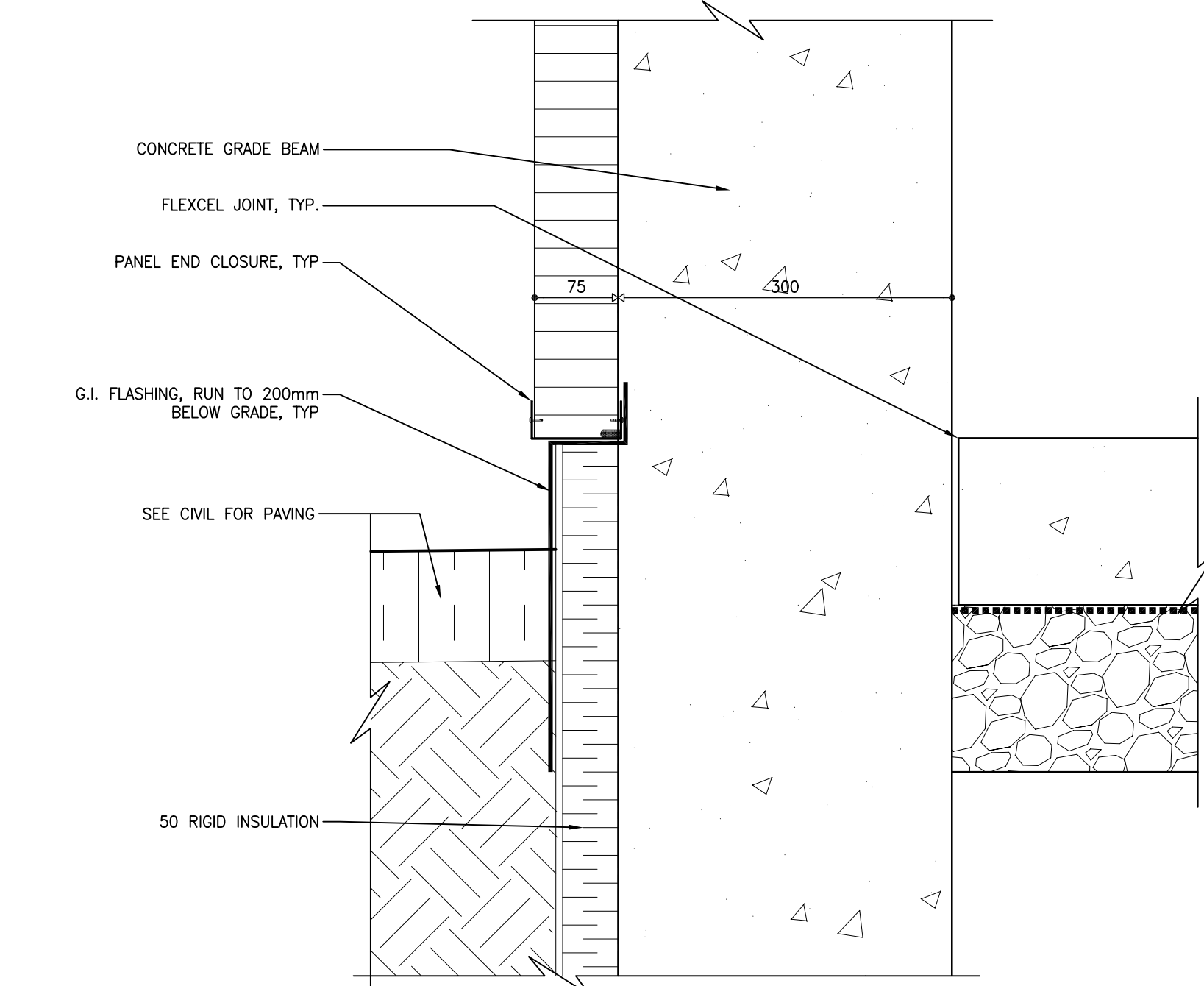
1 SECTION DETAIL - TYP GARAGE PARAPET
306.3 SCALE: 1:5



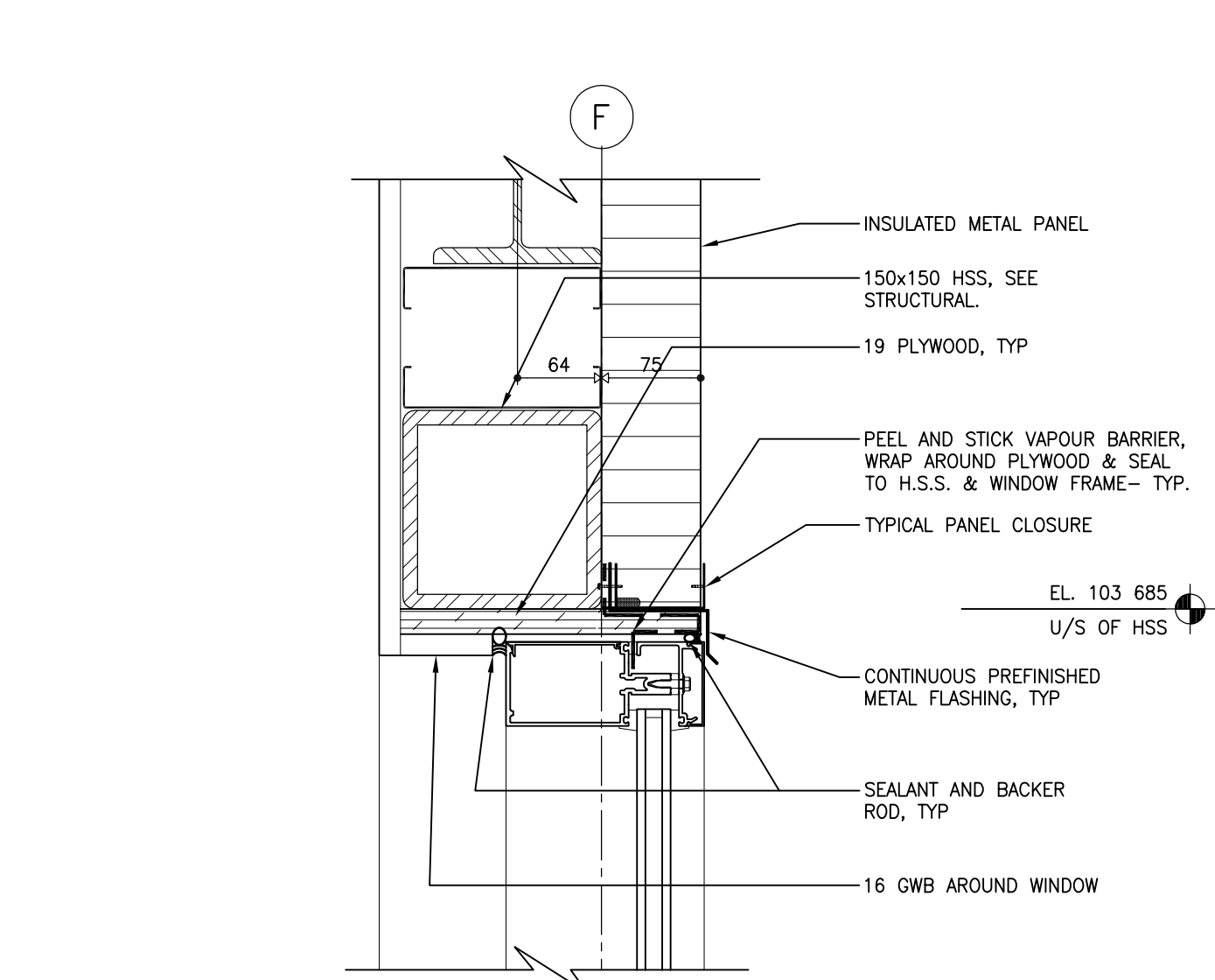
2 SECTION DETAIL - WINDOW HEAD
306.3 SCALE: 2



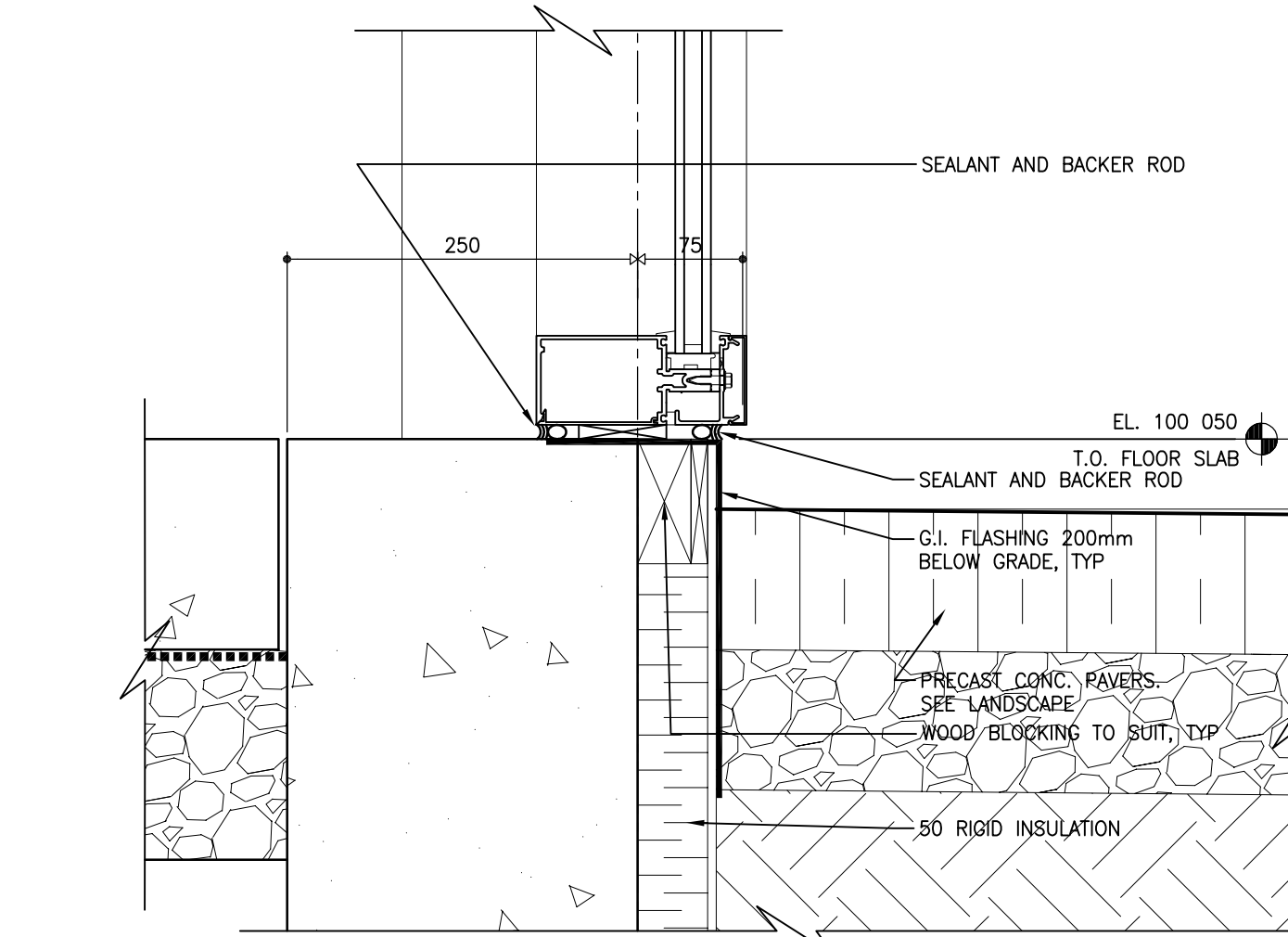
3 SECTION DETAIL - WINDOW SILL
306.3 SCALE: 1:5



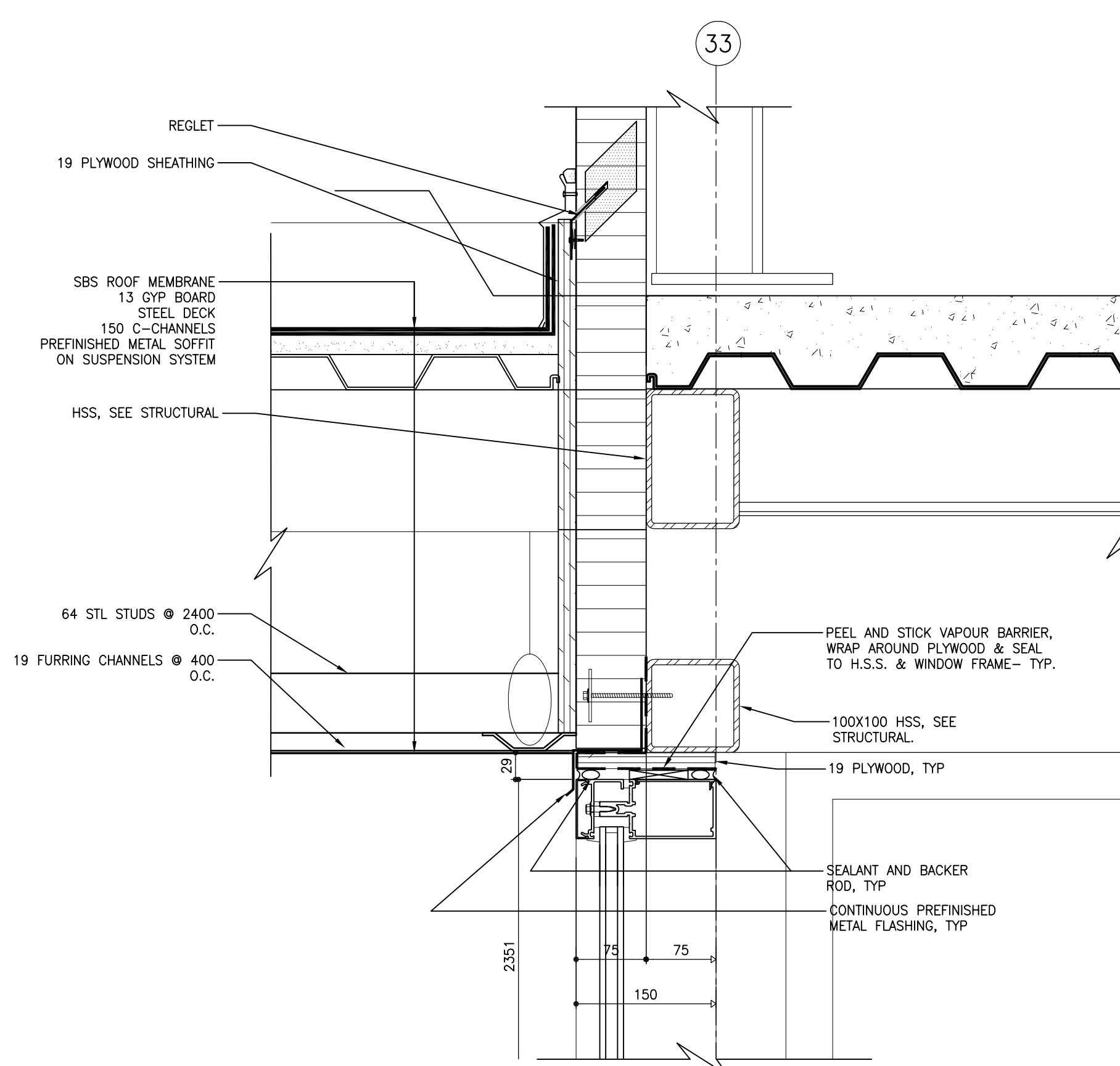
4 SECTION DETAIL - TYP BASE @ GARAGE
306.3 SCALE: 1:5



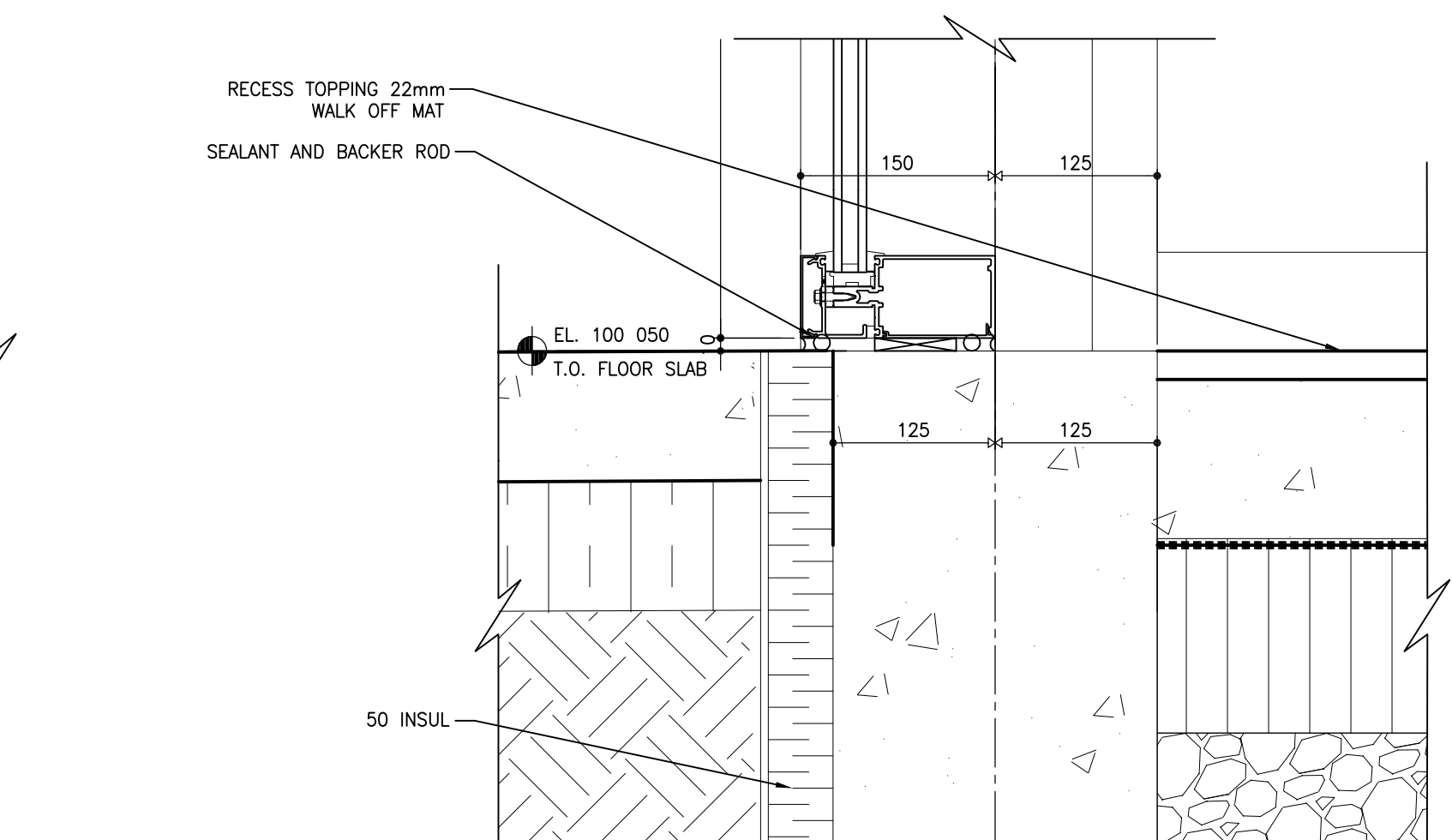
5 SECTION DETAIL - CURTAINWALL HEAD
306.3 SCALE: 1:5



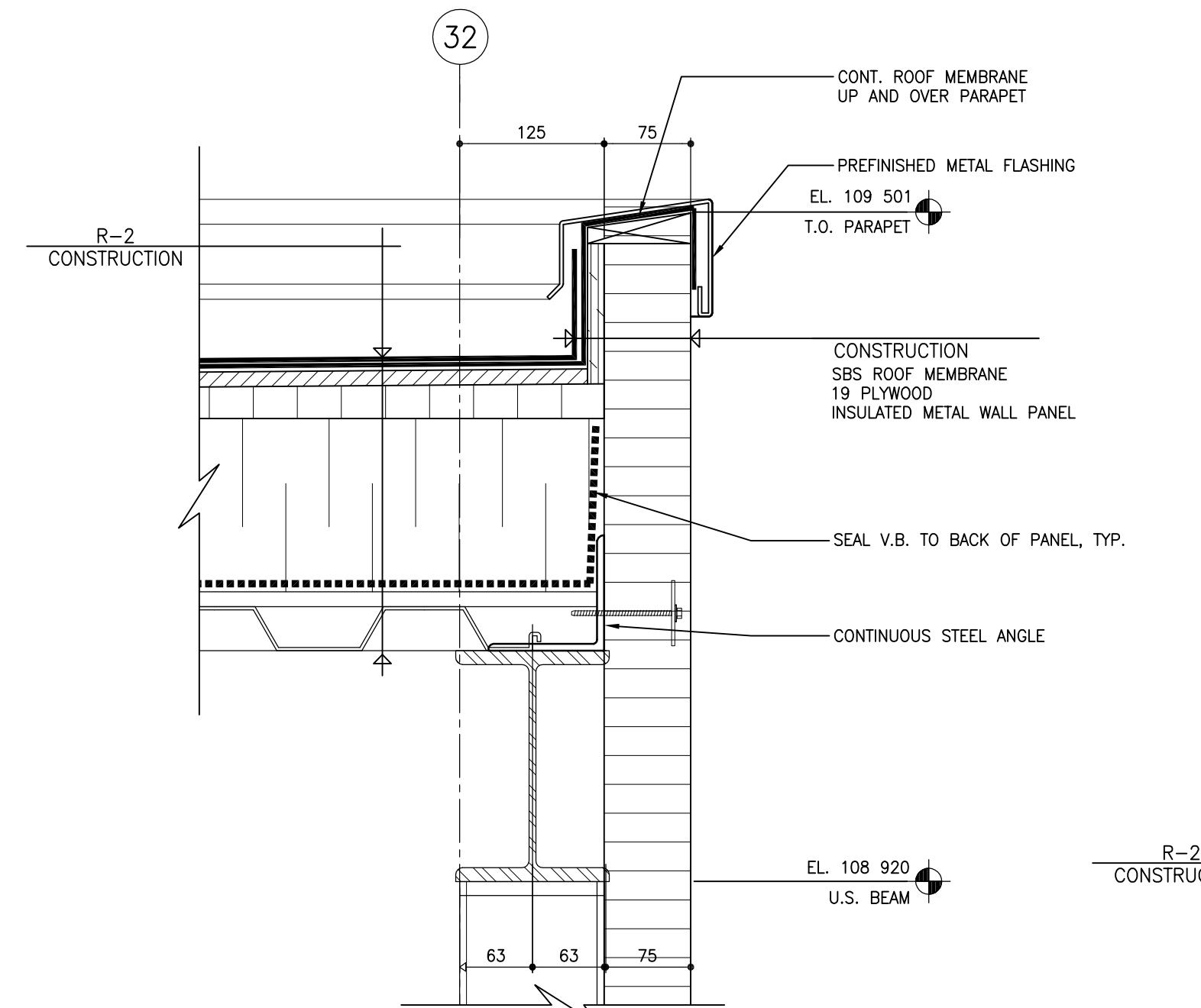
6 SECTION DETAIL - CURTAINWALL SILL
306.3 SCALE: 1:5



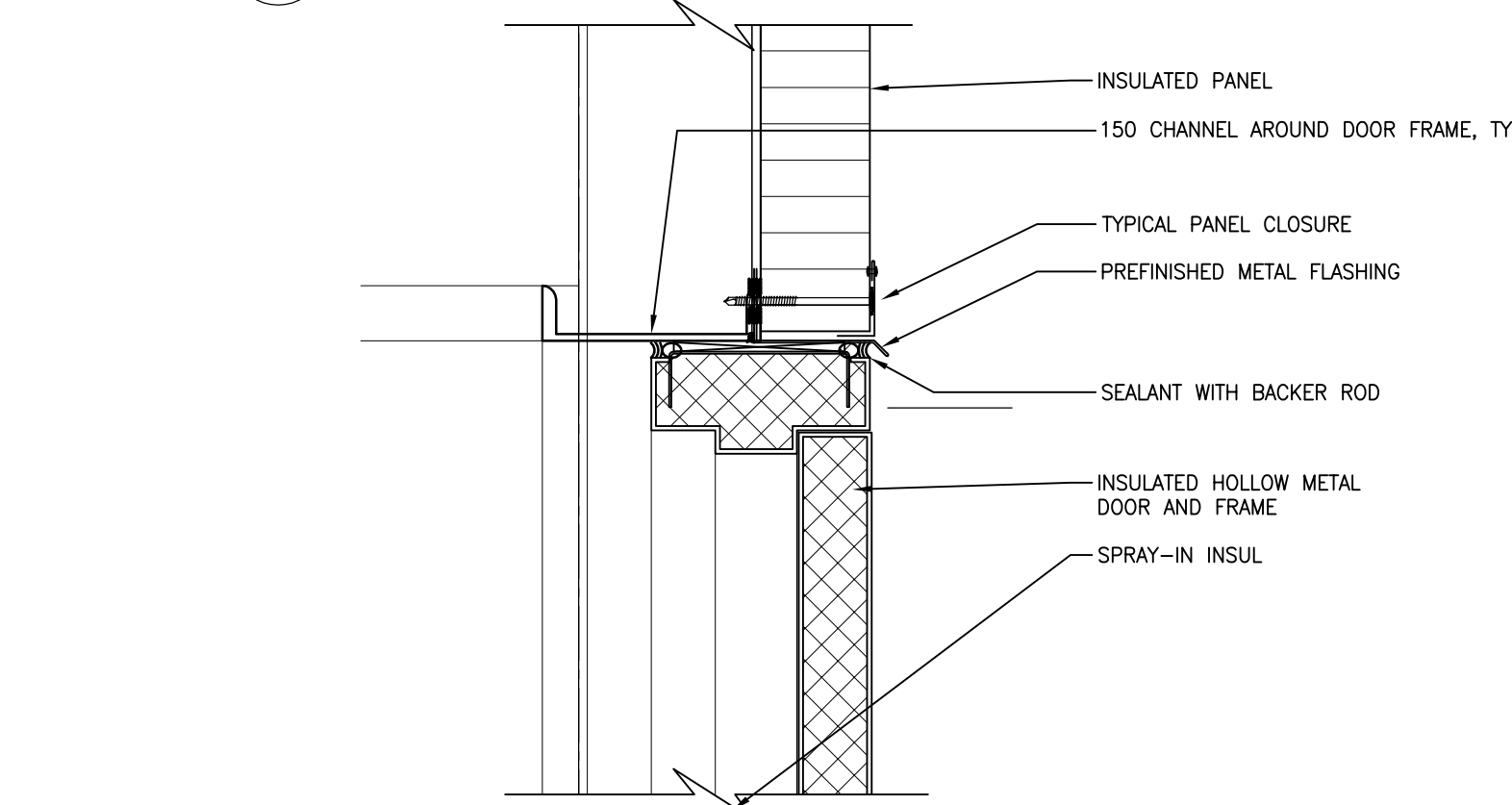
7 SECTION DETAIL - WINDOW HEAD/OVERHANG
306.3 SCALE: 1:5



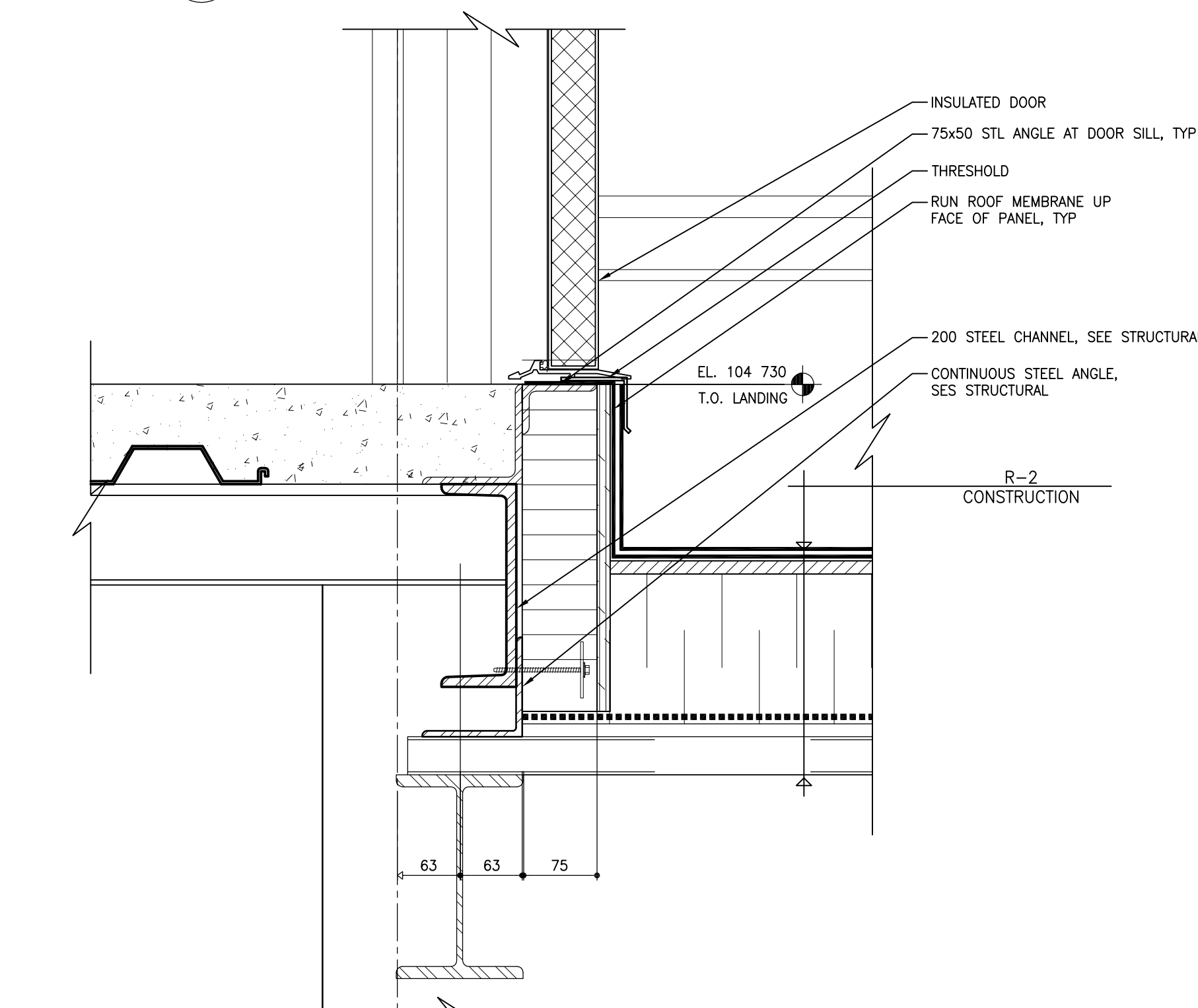
8 SECTION DETAIL - WINDOW SILL
306.3 SCALE: 1:5



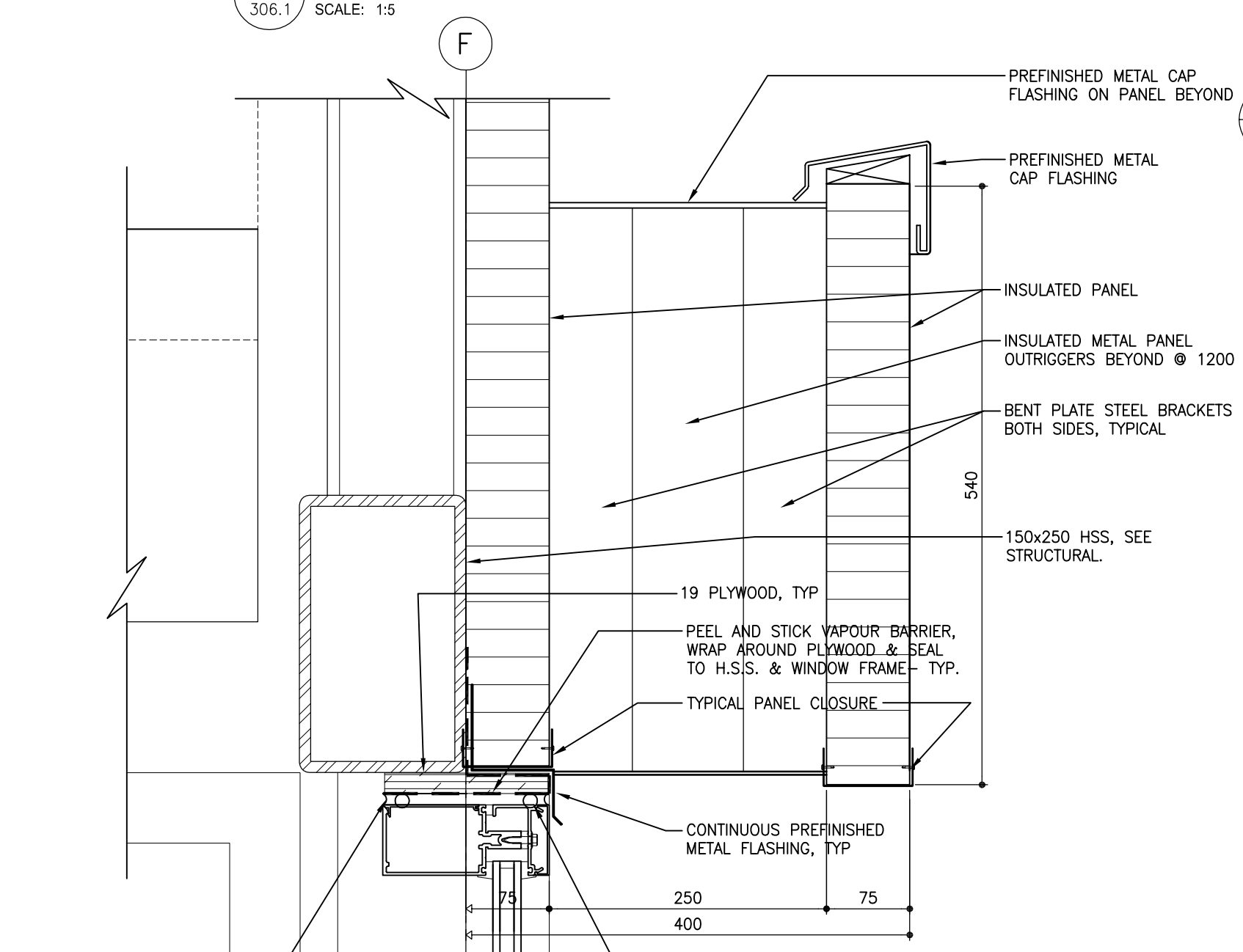
9 SECTION DETAIL - TYPICAL STAIR PARAPET
306.3 SCALE: 1:5



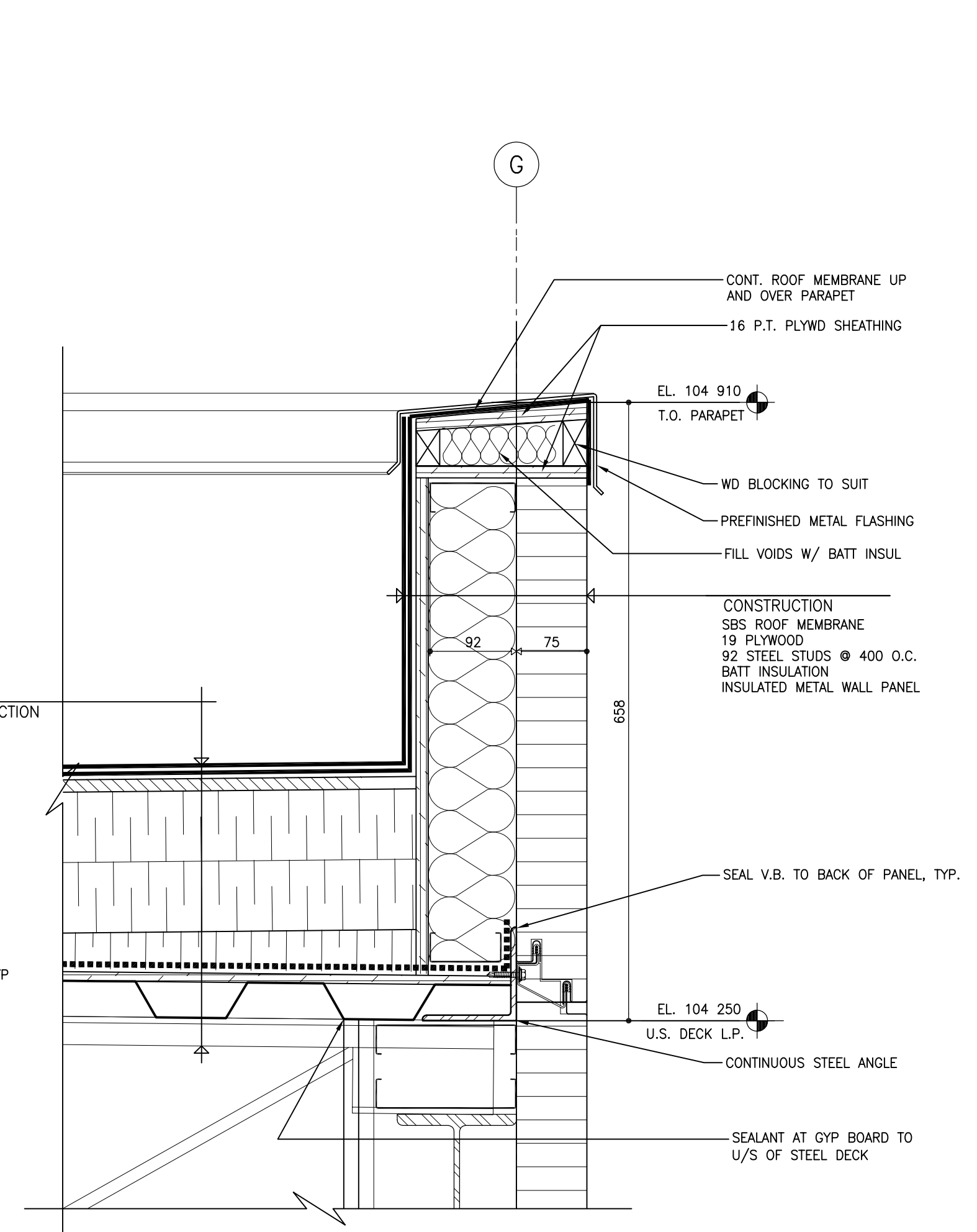
10 SECTION DETAIL - DOOR HEAD
306.3 SCALE: 1:5



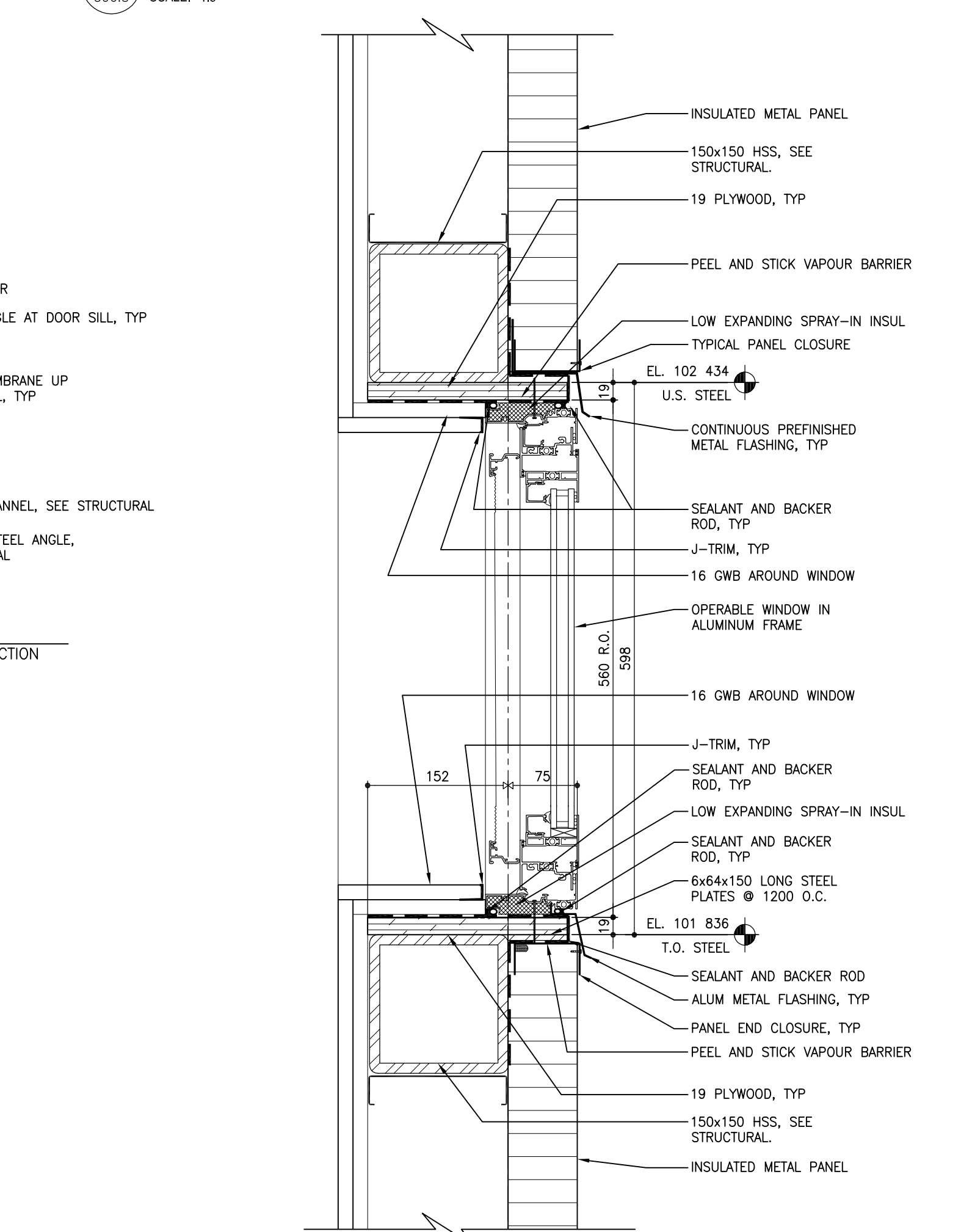
11 SECTION DETAIL - DOOR SILL THRESHOLD
306.3 SCALE: 1:5



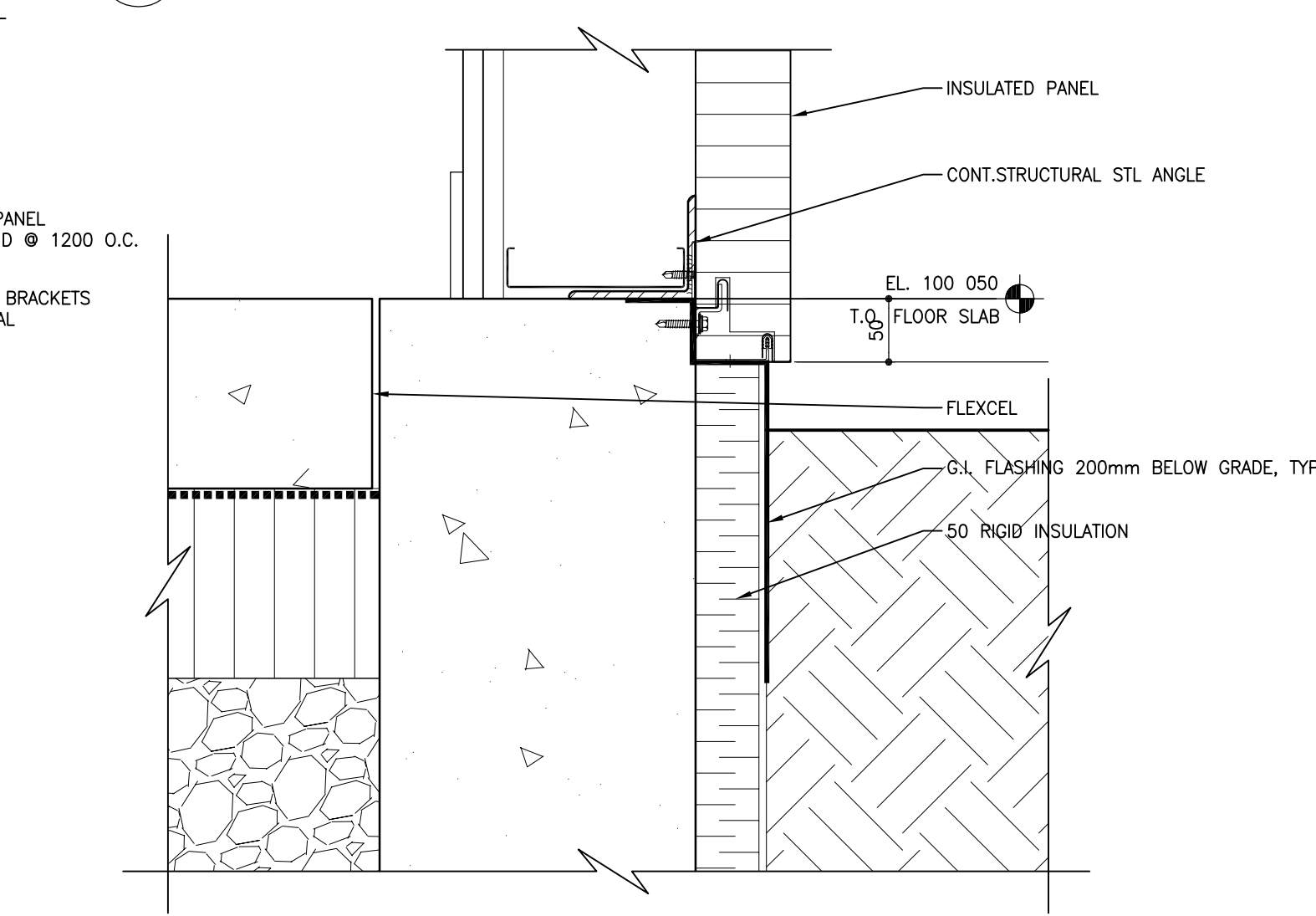
12 SECTION DETAIL - WINDOW HEAD/OVERHANG
306.3 SCALE: 1:5



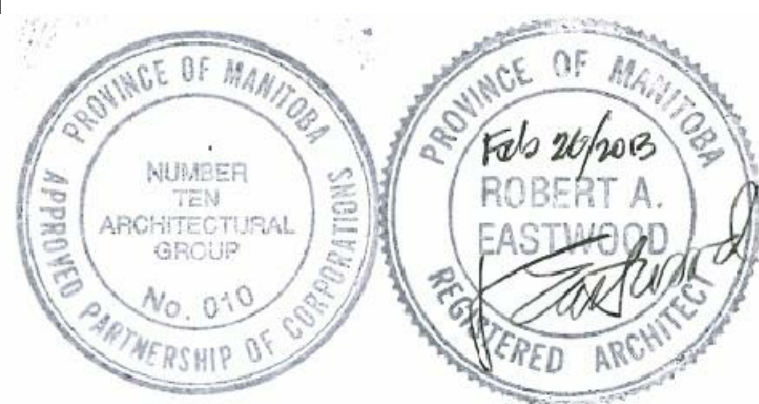
13 SECTION DETAIL - TYP OFFICE PARAPET
306.3 SCALE: 1:5



14 SECTION DETAIL - TYP OFFICE WINDOW GLAZING
306.3 SCALE: 1:5



15 SECTION DETAIL - TYP BASE @ OFFICE
306.3 SCALE: 1:5



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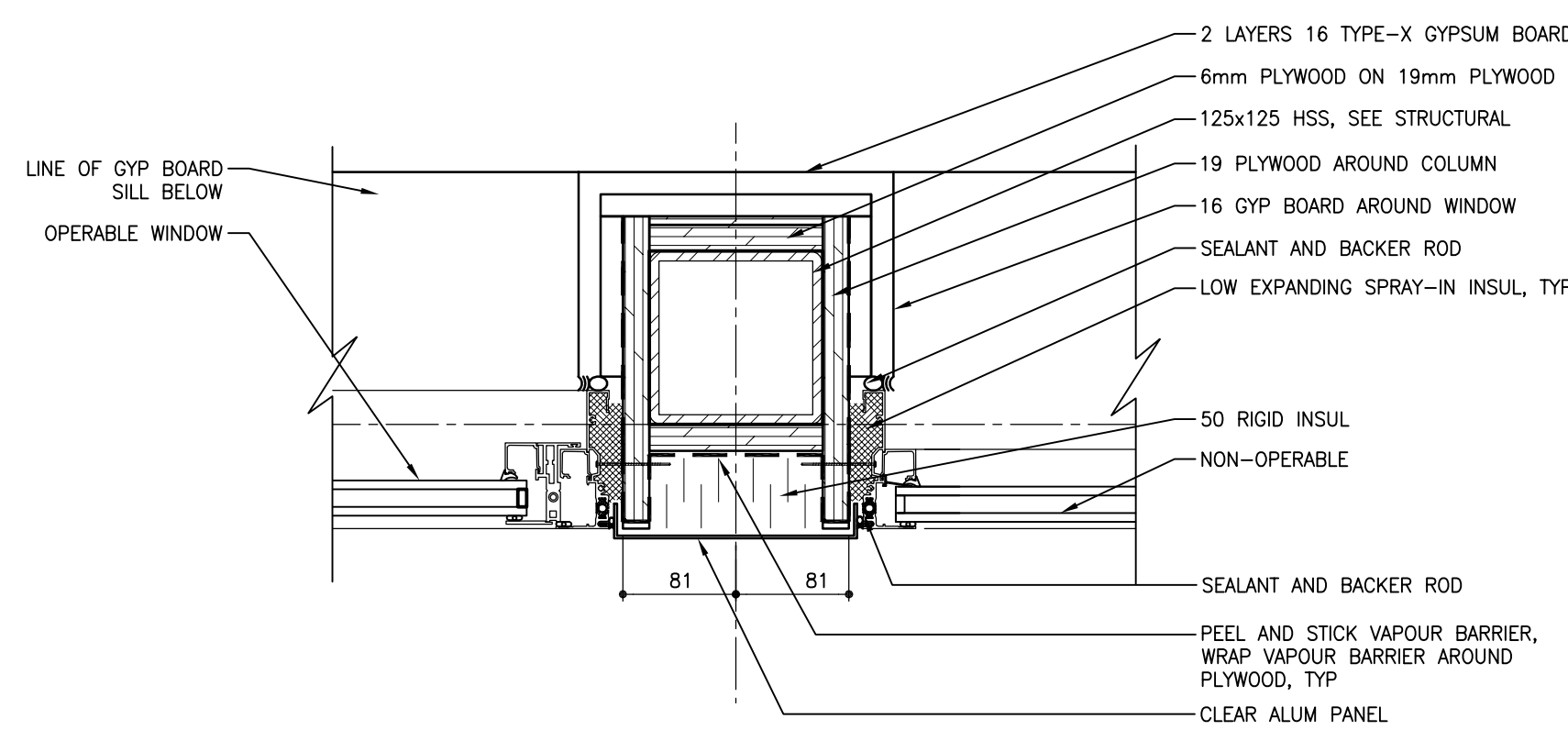
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architectural group
winnipeg MB regina SK victoria BC
204 942.0981 306 721.1501 250 360.2106
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TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

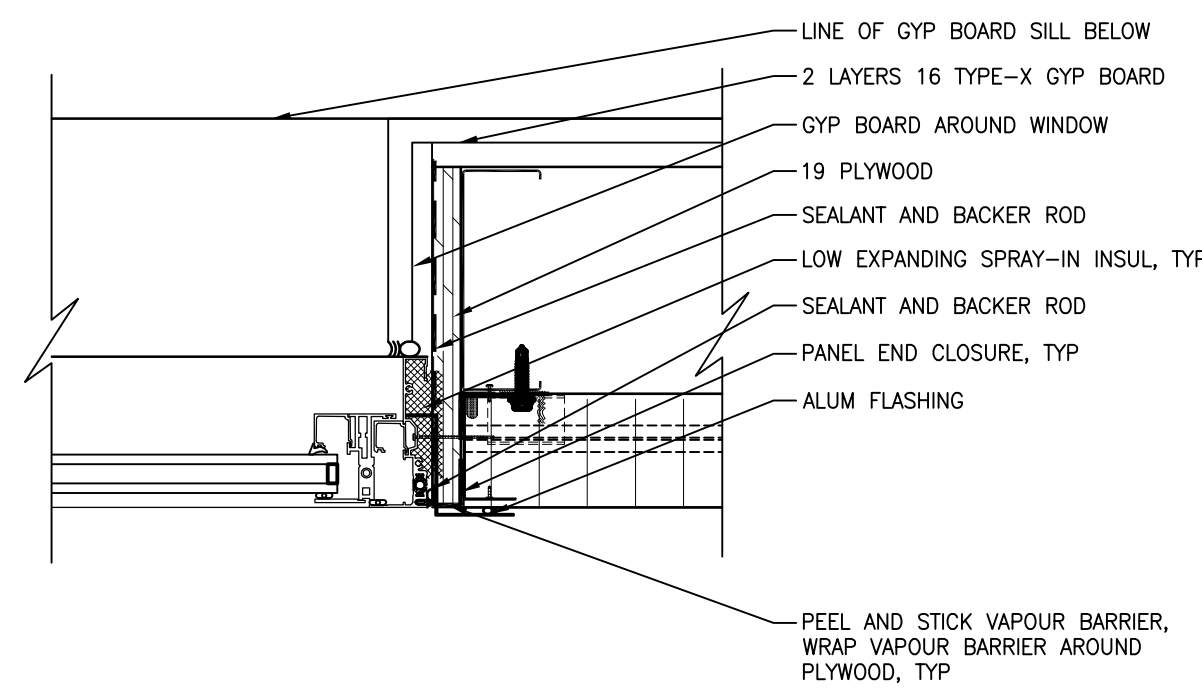
SECTION DETAILS

Project number	2012021
Date	DEC. 7, 2012
Drawn by	M.S., R.C.
Checked by	R.E., K.F.

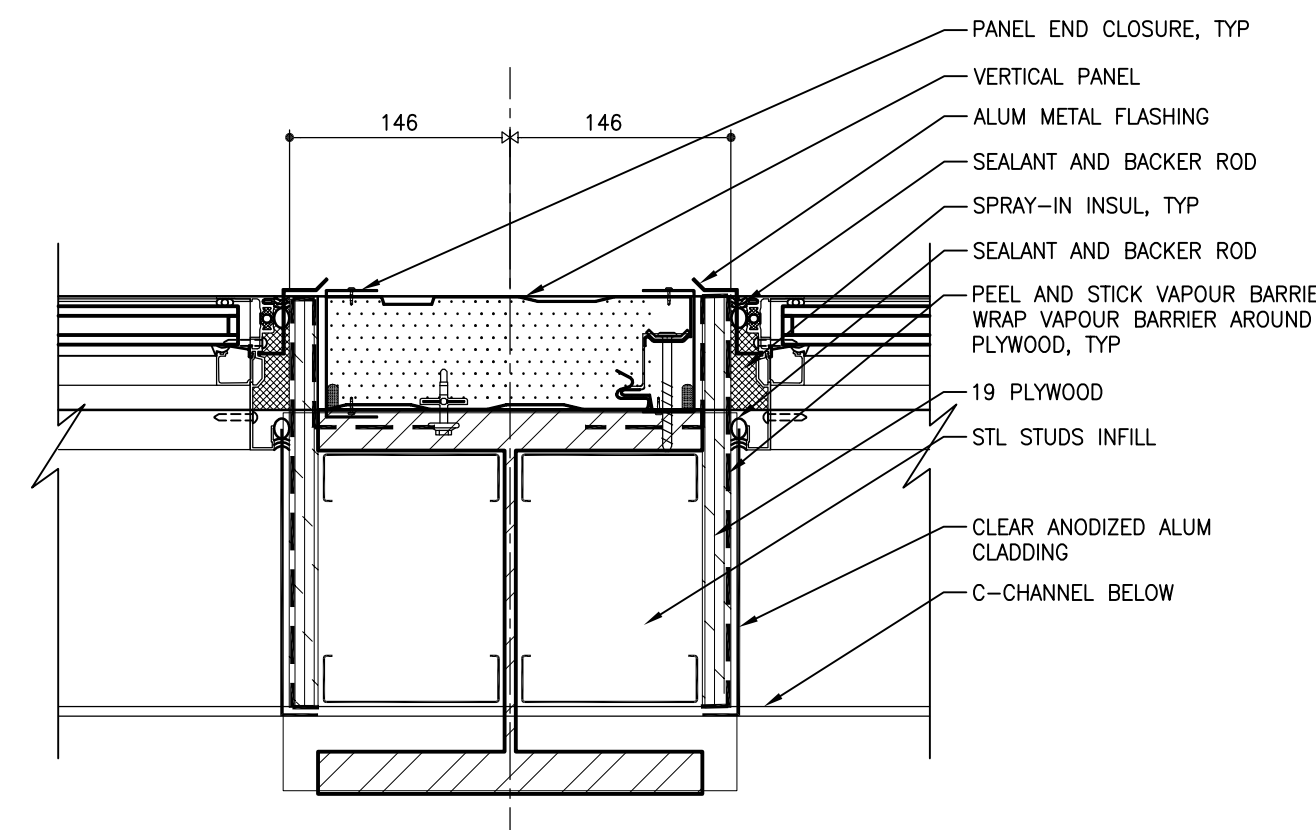
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 90% SUBMISSION	22/10/2013
ISSUED FOR 100% REVIEW	07/12/2013
ISSUED FOR CONSTRUCTION	27/02/2013



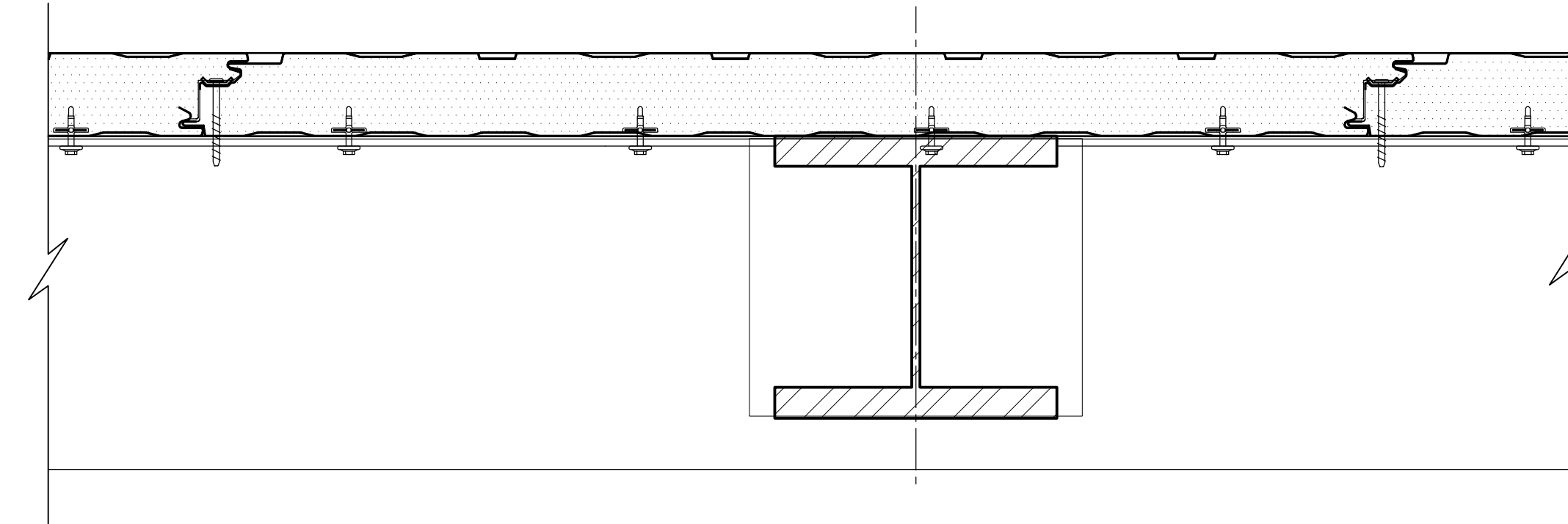
1 PLAN DETAIL - TYPICAL OFFICE OPERABLE/STANDARD WINDOW JAMB @ COLUMN
307 SCALE: 1:5



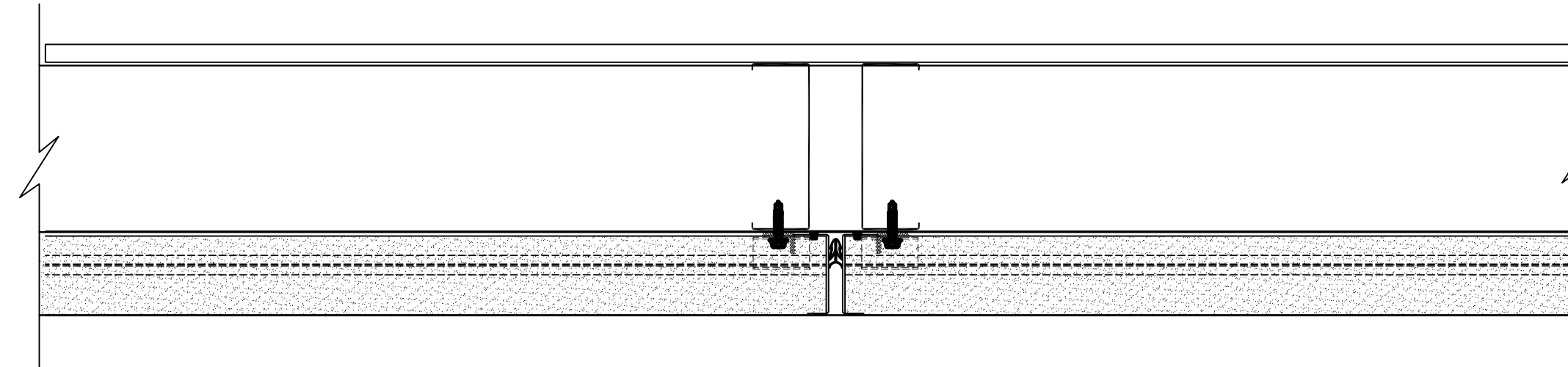
2 PLAN DETAIL - TYPICAL OFFICE OPERABLE/STANDARD WINDOW JAMB @ WALL
307 SCALE: 1:5



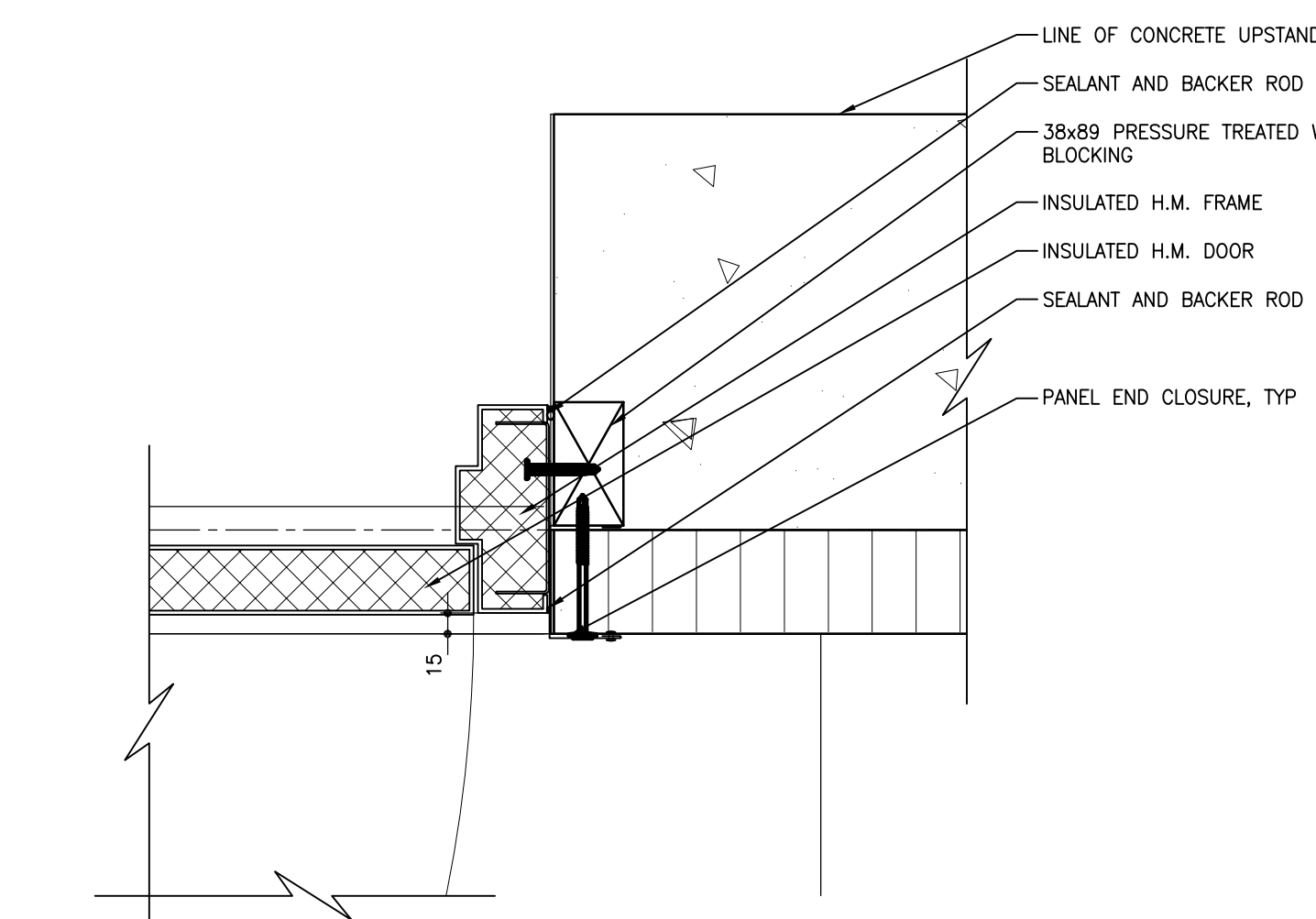
3 PLAN DETAIL - TYPICAL GARAGE WINDOW JAMB
307 SCALE: 1:5



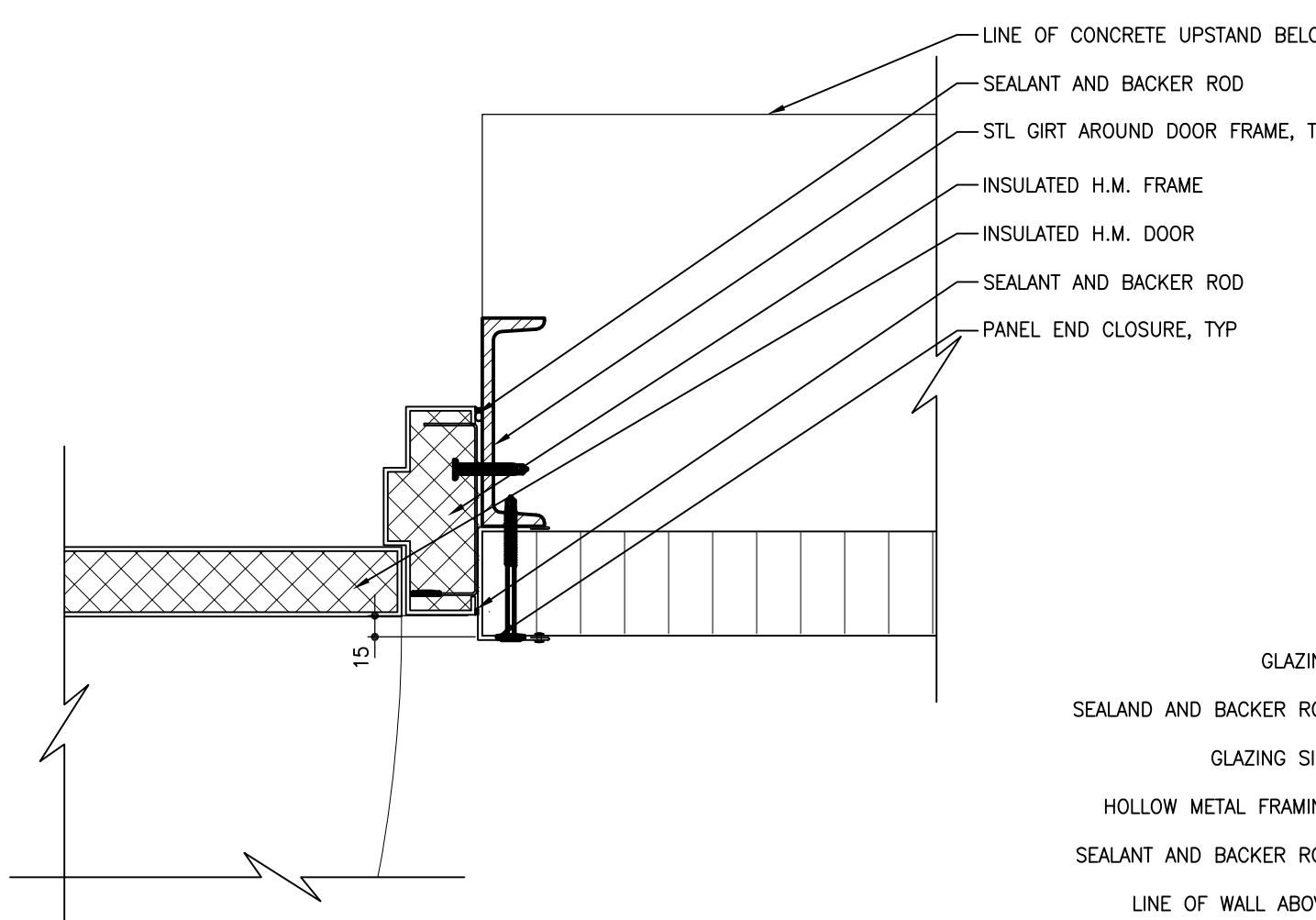
4 PLAN DETAIL - TYPICAL VERTICAL PANEL JOINT
307 SCALE: 1:5



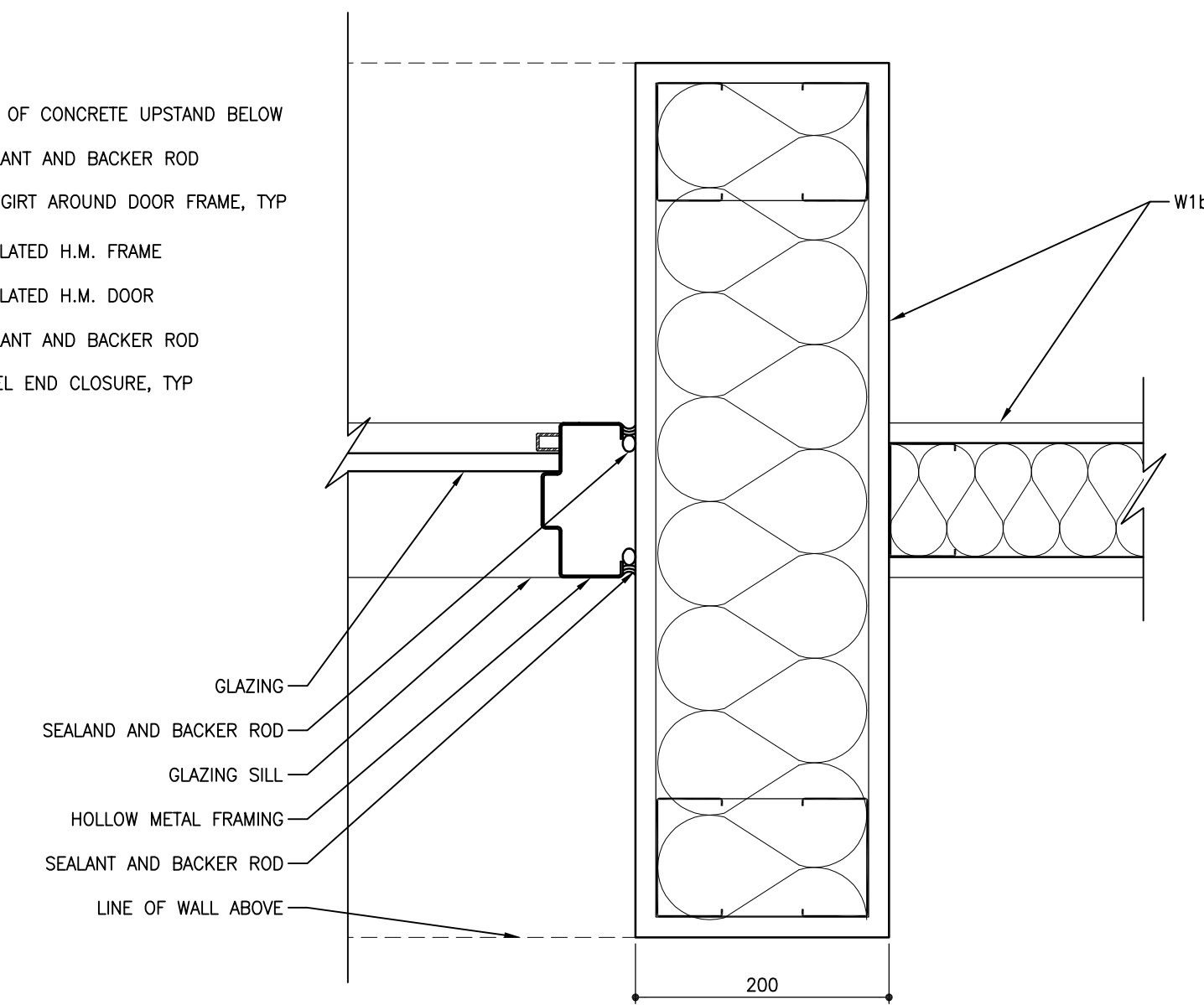
8 PLAN DETAIL - TYPICAL HORIZONTAL PANEL JOINT
307 SCALE: 1:5



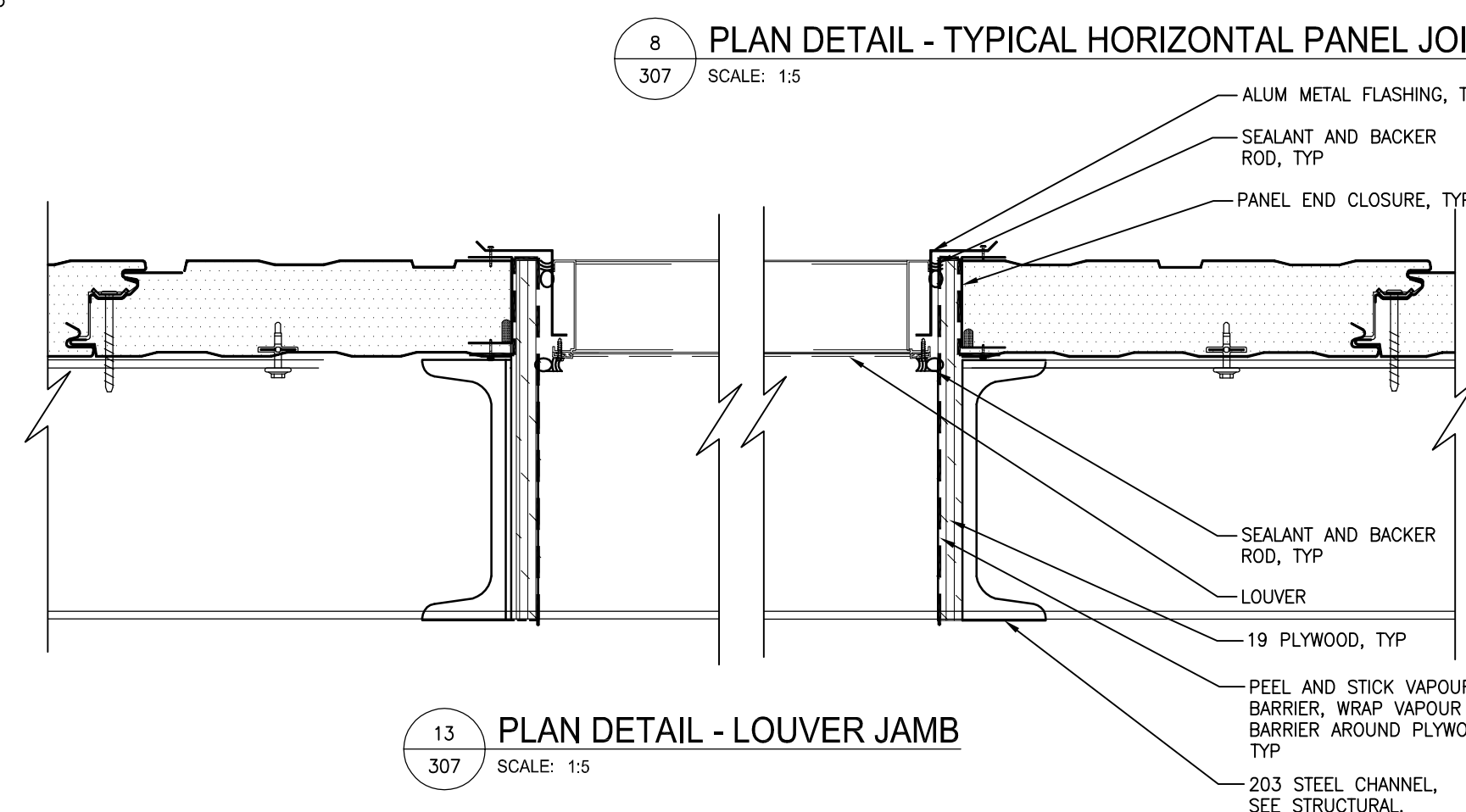
5 PLAN DETAIL - TYPICAL EXIT DOOR JAMB @ 100 000
307 SCALE: 1:5



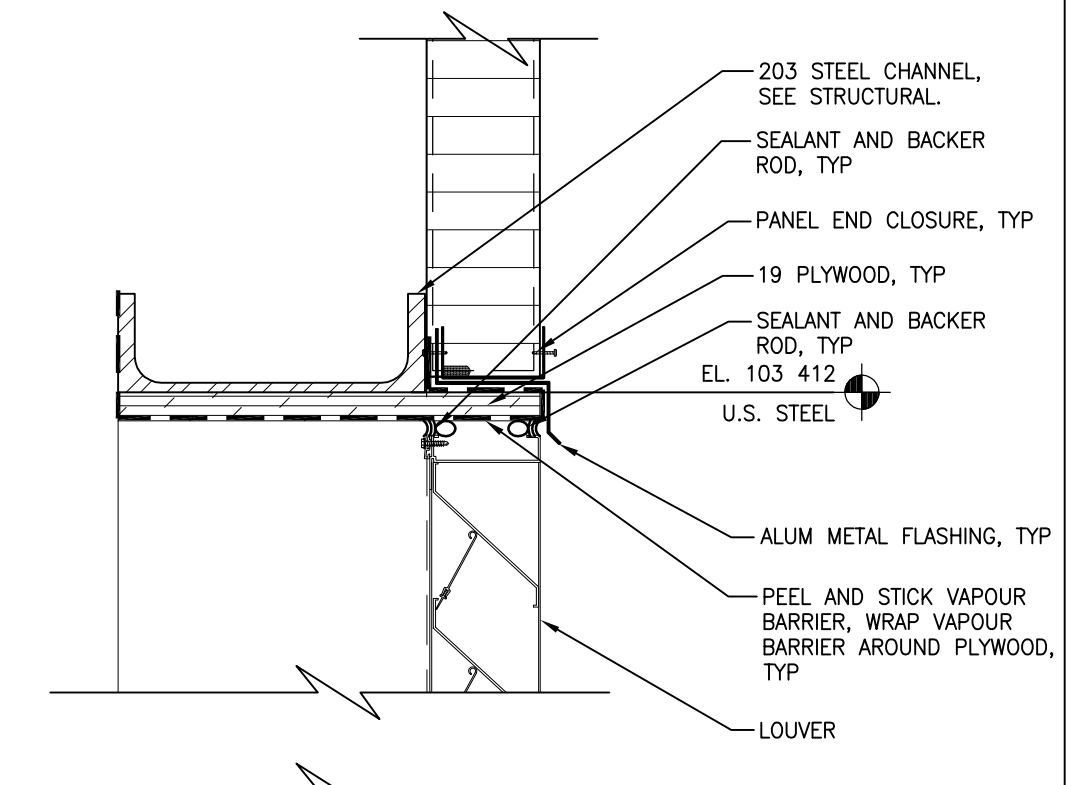
6 PLAN DETAIL - TYPICAL EXIT DOOR JAMB @ 101 200
307 SCALE: 1:5



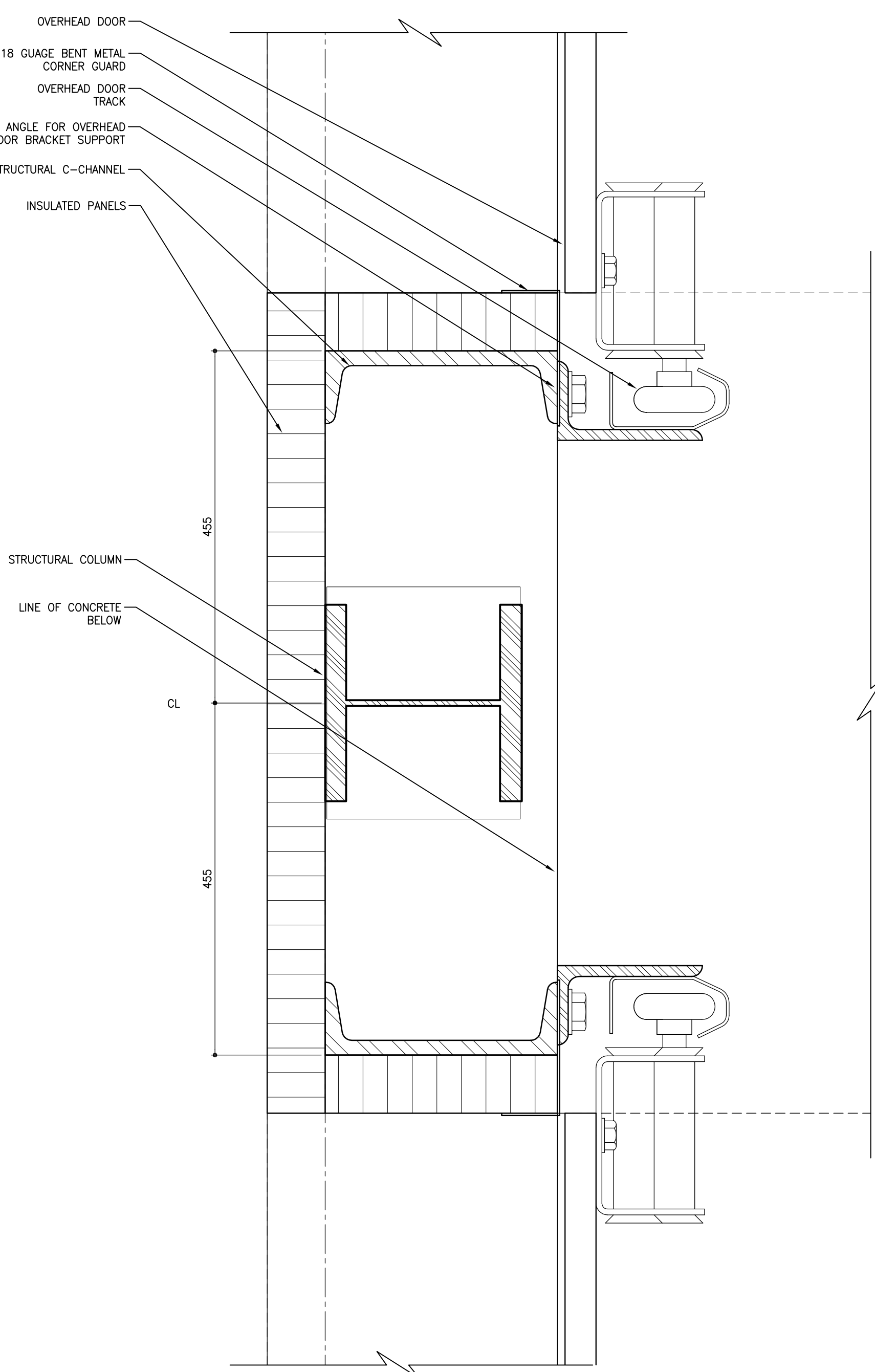
7 PLAN DETAIL - TYPICAL BORDER
307 SCALE: 1:5



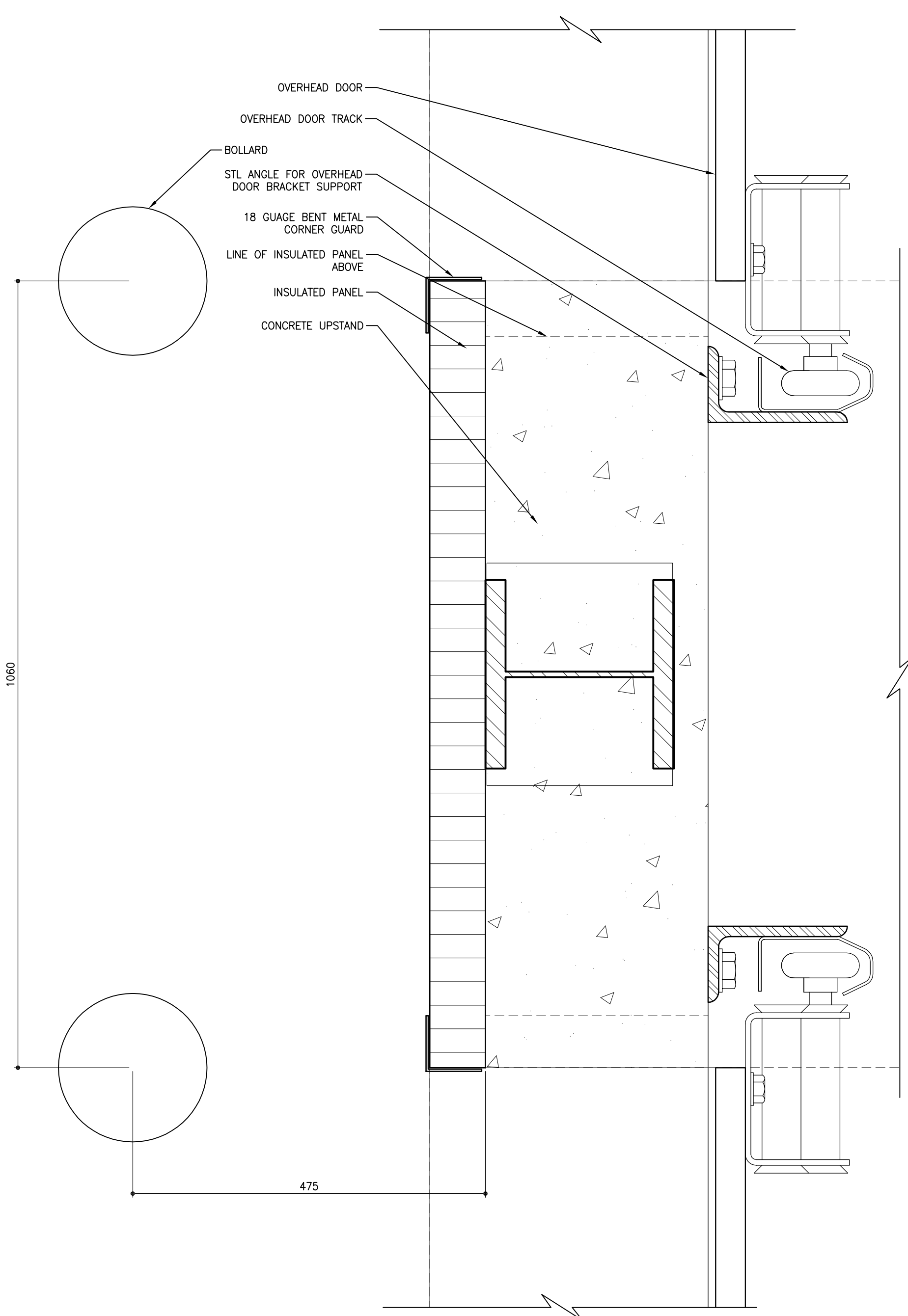
13 PLAN DETAIL - LOUVER JAMB
307 SCALE: 1:5



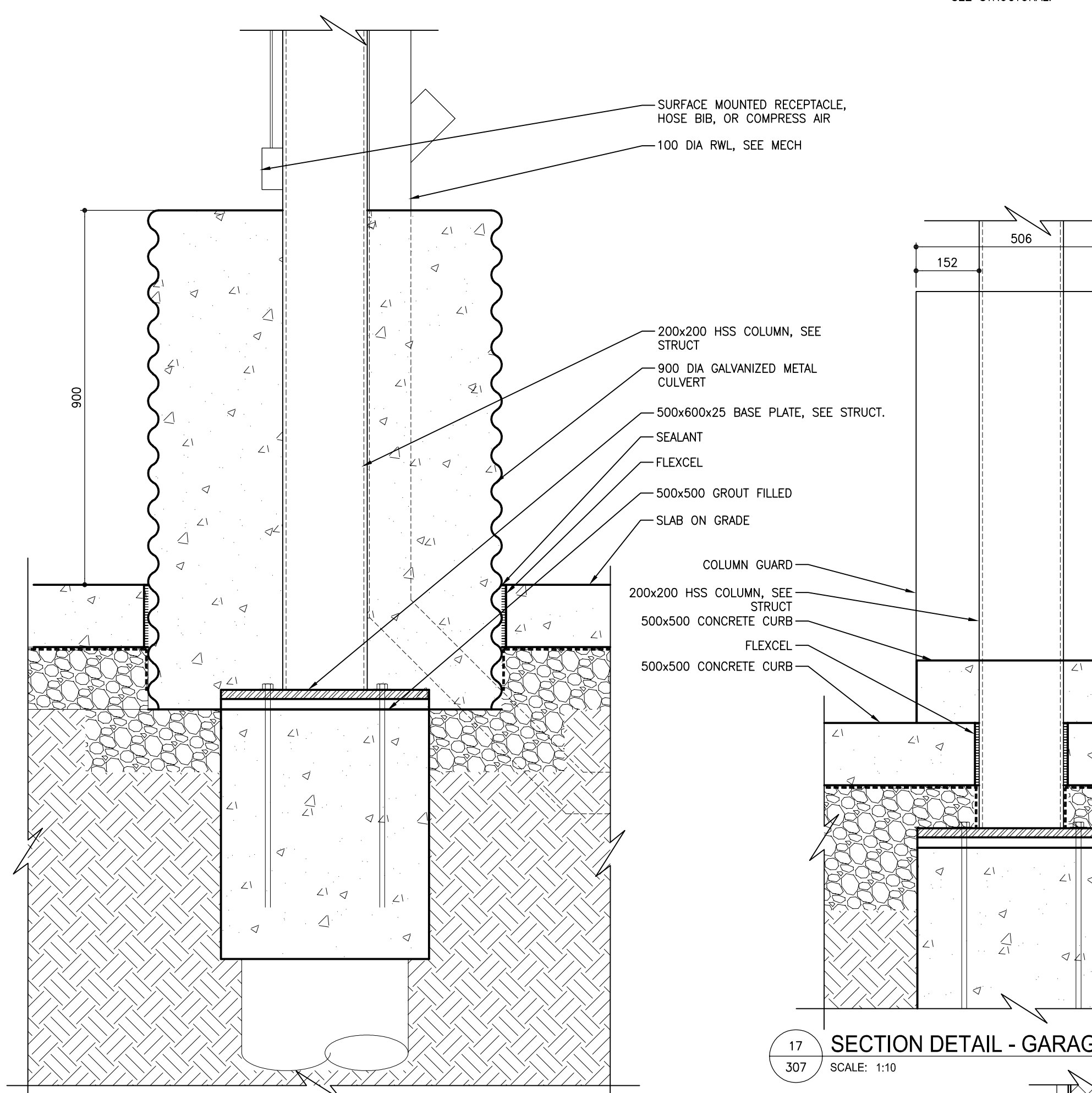
14 SECTION DETAIL - LOUVER HEAD/SILL
307 SCALE: 1:5



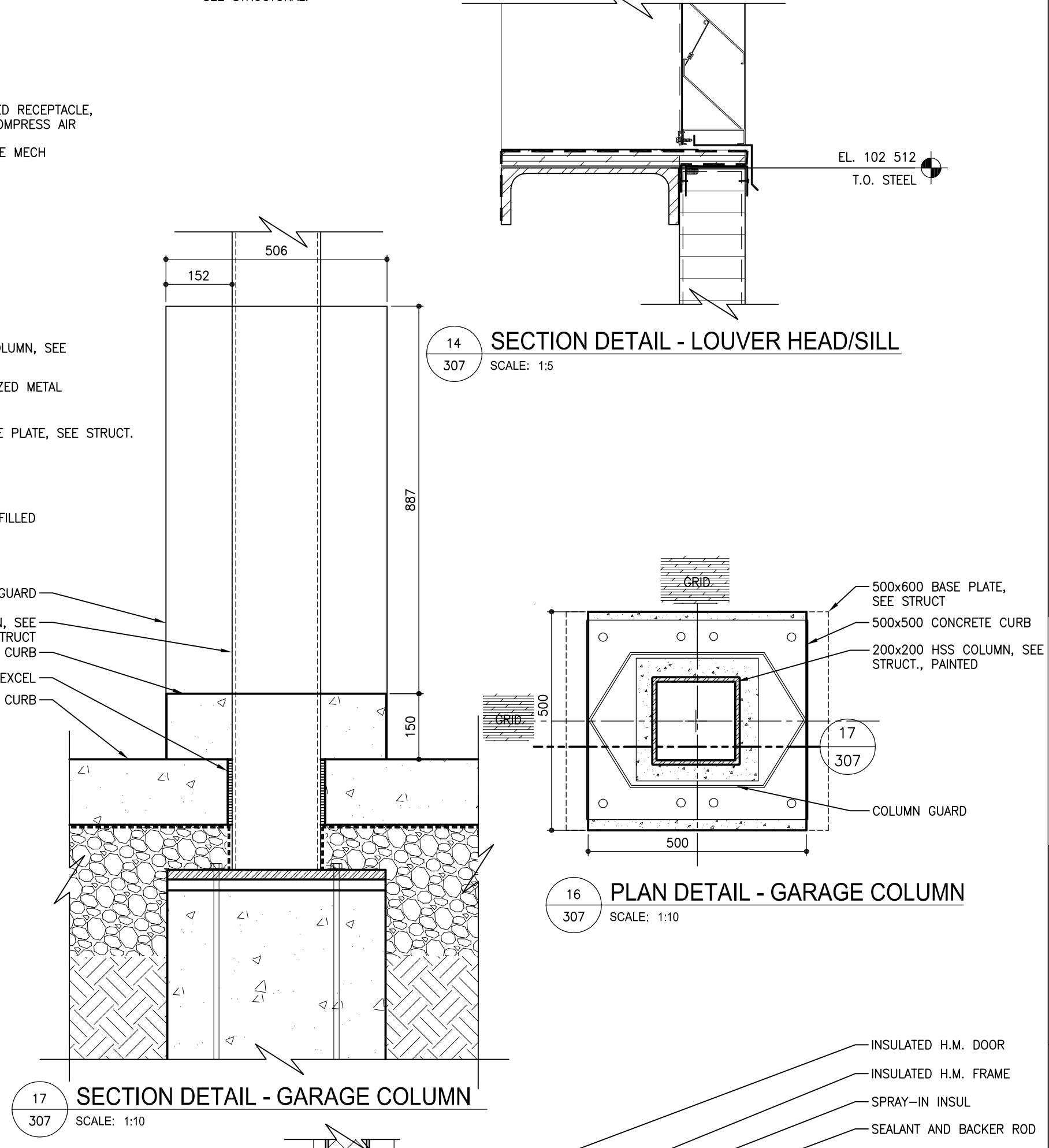
9 PLAN DETAIL - TYPICAL OVERHEAD DOOR JAMB @ EL. 101200
307 SCALE: 1:5



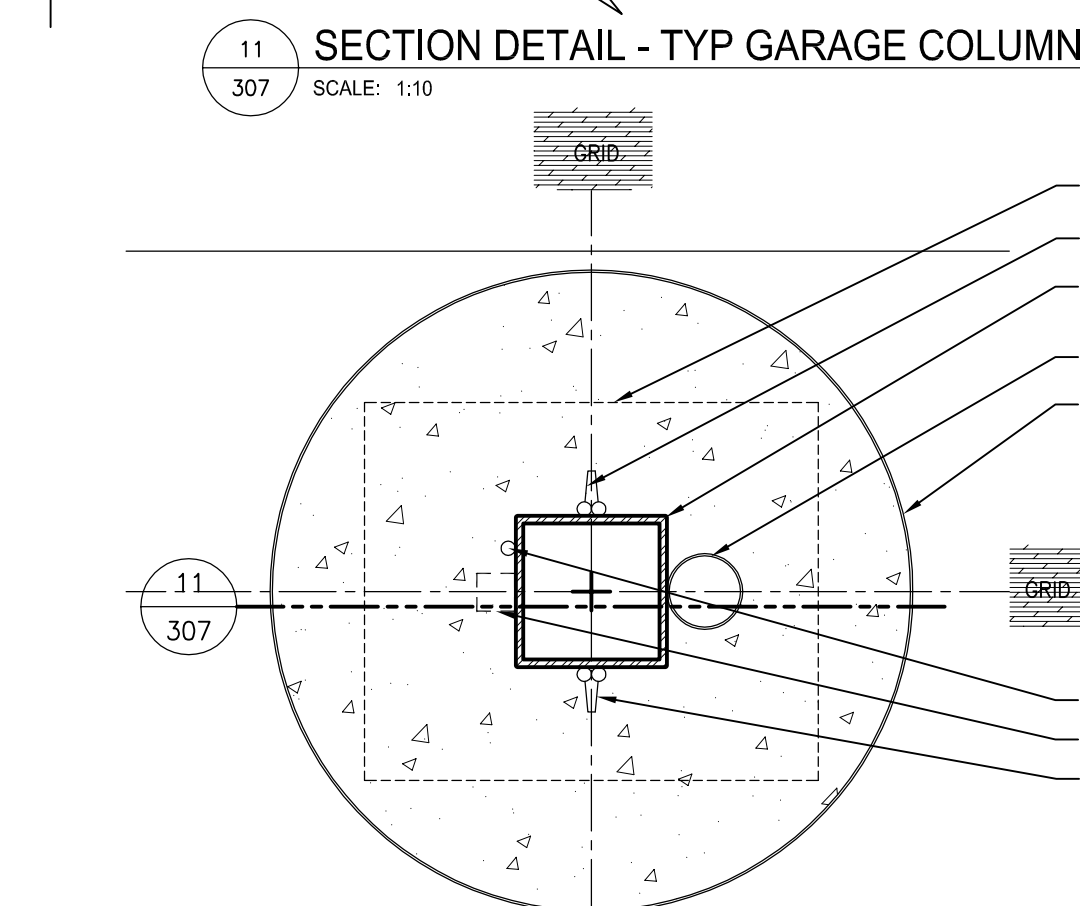
10 PLAN DETAIL - TYPICAL OVERHEAD DOOR JAMB @ EL. 100000
307 SCALE: 1:5



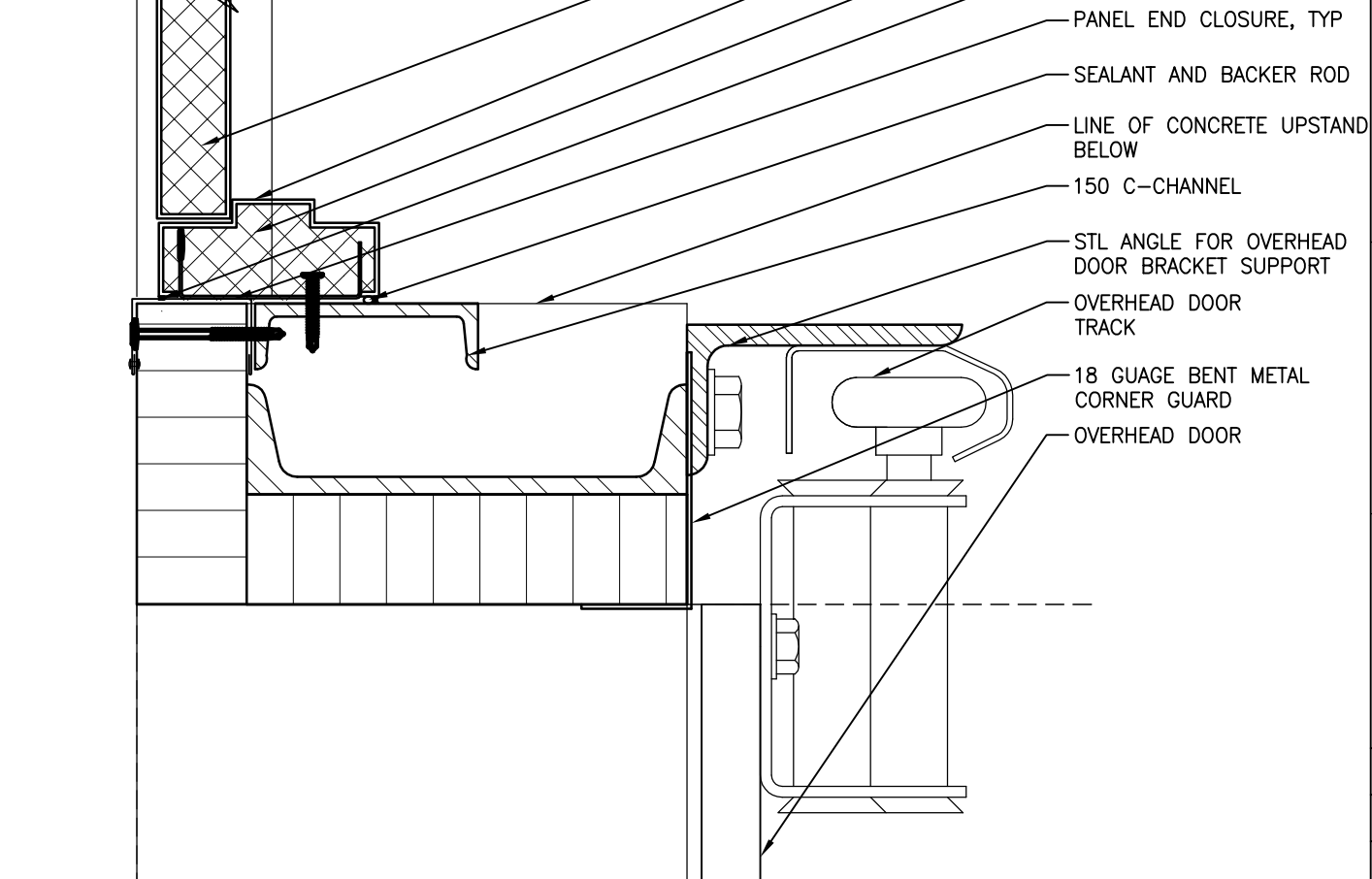
11 SECTION DETAIL - TYP GARAGE COLUMN
307 SCALE: 1:10



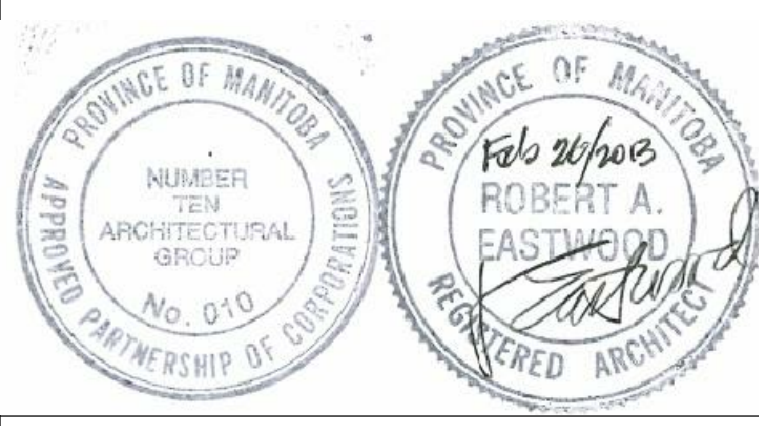
17 SECTION DETAIL - GARAGE COLUMN
307 SCALE: 1:10



12 PLAN DETAIL - TYPICAL GARAGE COLUMN
307 SCALE: 1:10



15 PLAN DETAIL - GARAGE/DOOR JAMB
307 SCALE: 1:5



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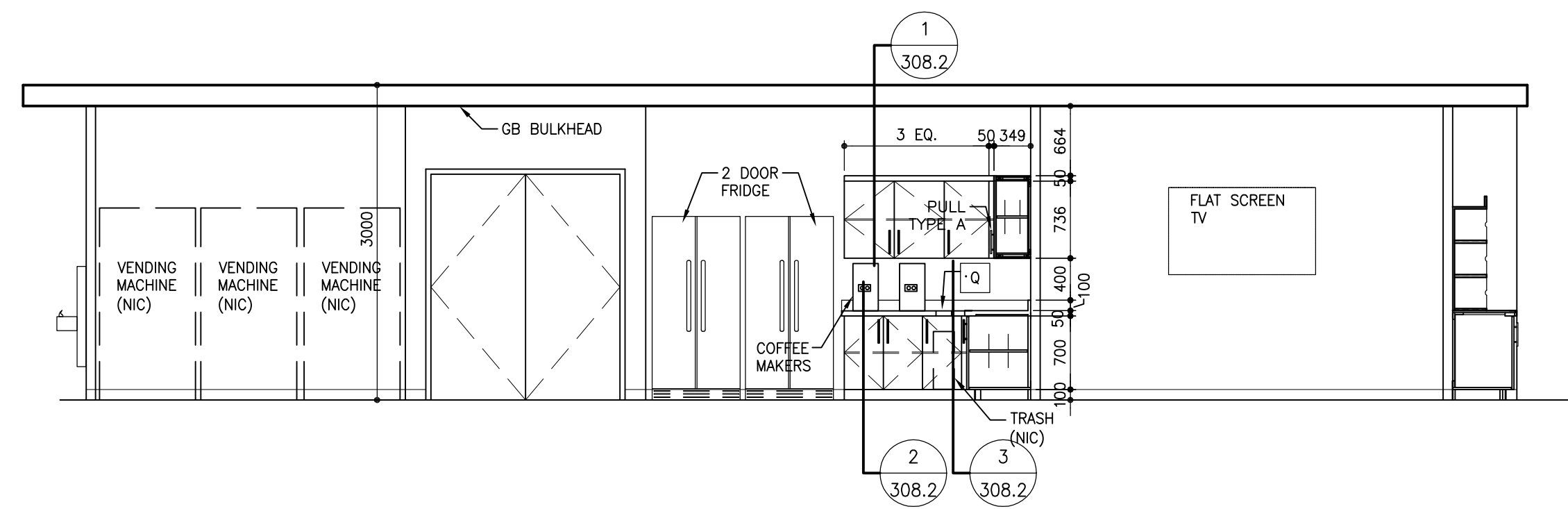
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

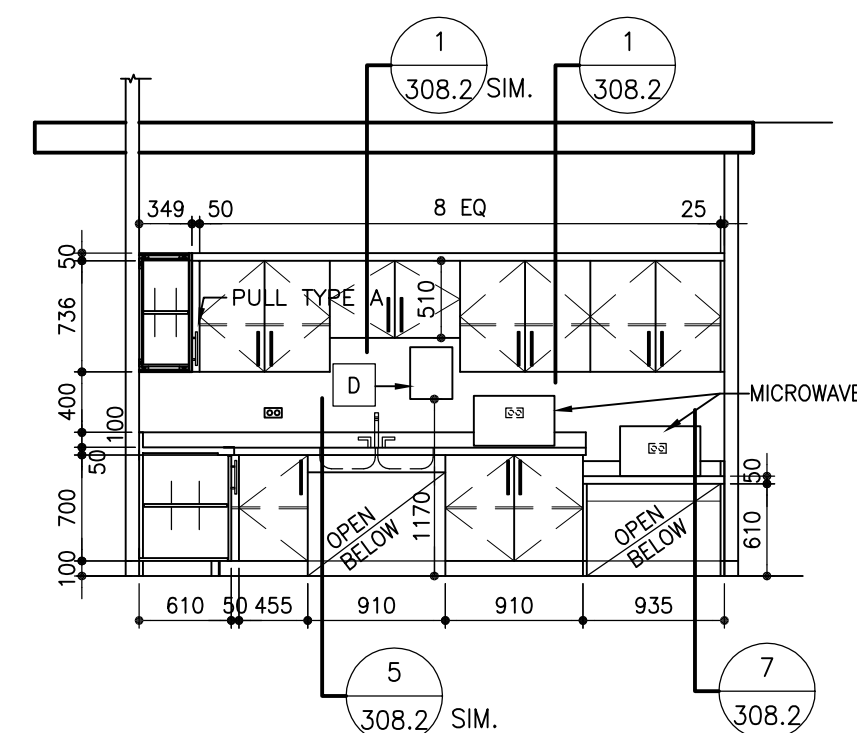
PLAN & SECTION DETAILS

Project number	2012021
Date	JULY 16, 2012
Drawn by	M.S., R.C.
Checked by	R.E.

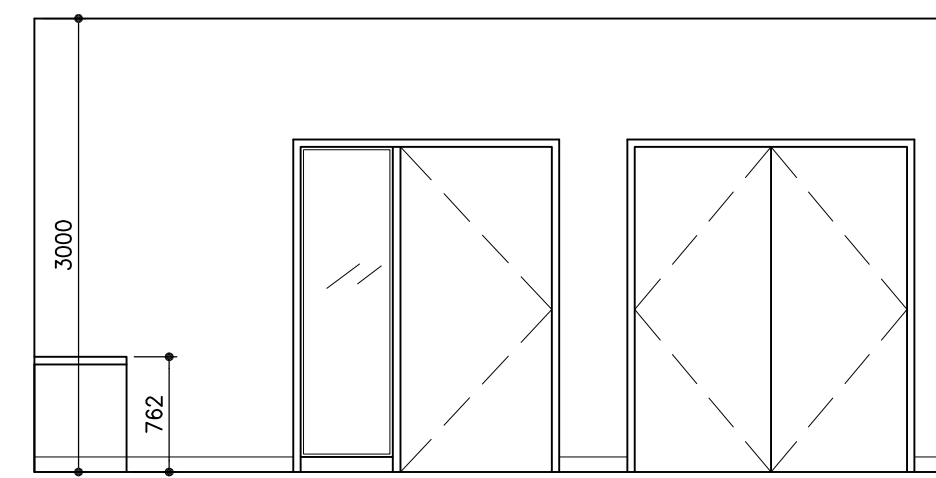
Scale AS NOTED



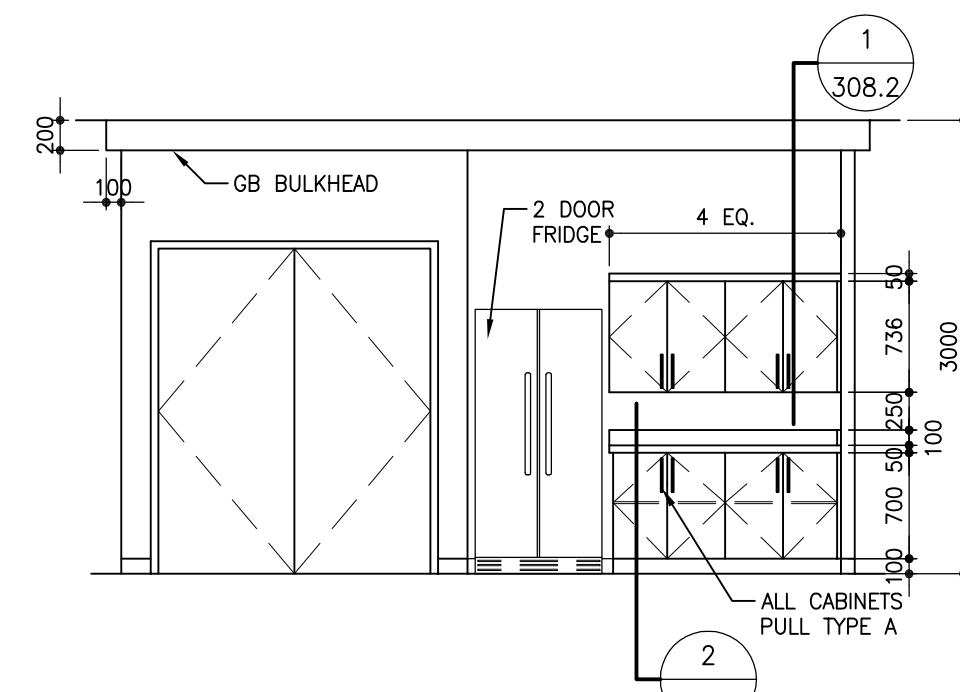
1 ELEVATION - KITCHEN 1-08 WEST
SCALE: 1:50



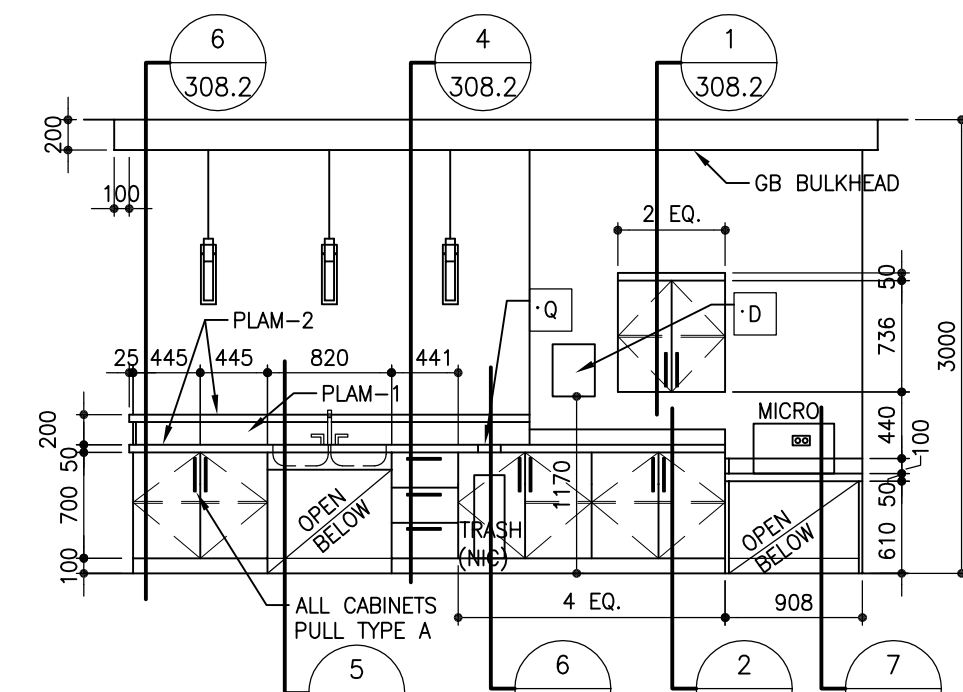
2 ELEVATION - KITCHEN 1-08 NORTH
SCALE: 1:50



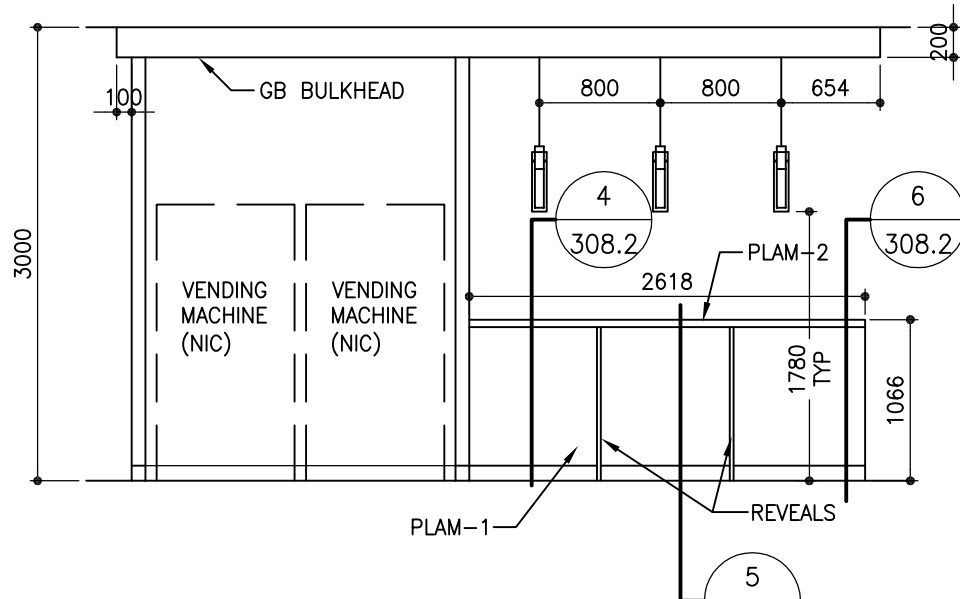
3 ELEVATION - STAFF LOUNGE 1-07 SOUTH
SCALE: 1:50



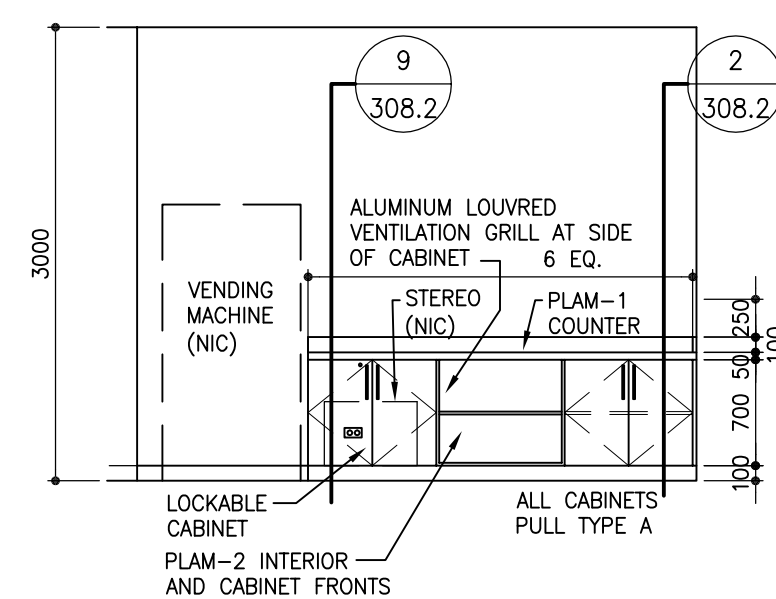
4 ELEVATION - KITCHEN 1-26 WEST
SCALE: 1:50



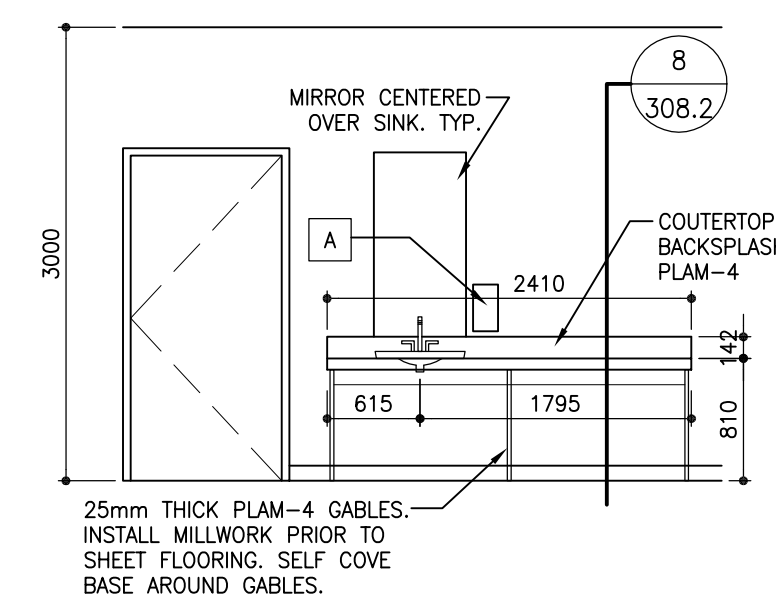
5 ELEVATION KITCHEN 1-26 EAST
SCALE: 1:50



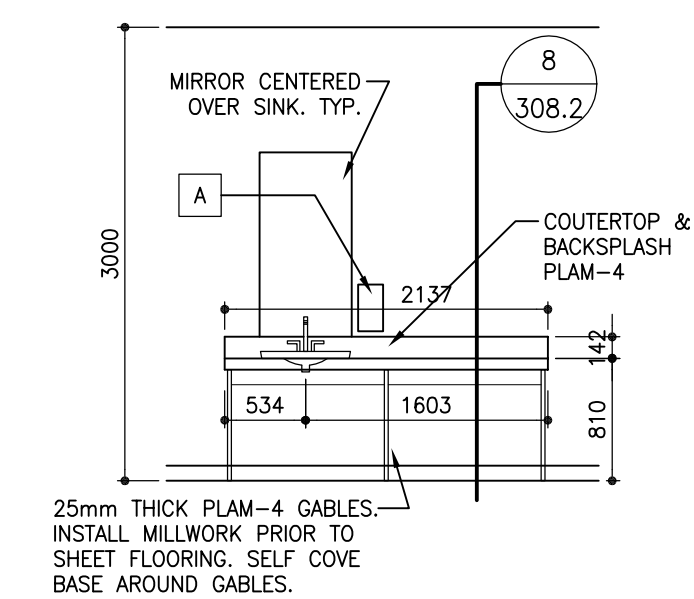
6 ELEVATION - SERVICE LUNCH RM. 1-27 WEST
SCALE: 1:50



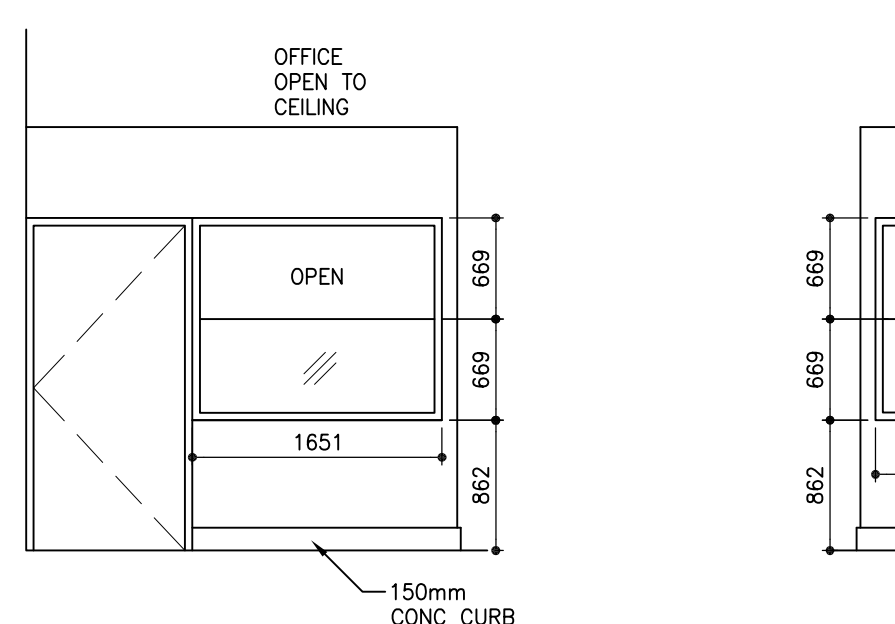
7 ELEV. - MULTI-USE RM. 1-16 WEST
SCALE: 1:50



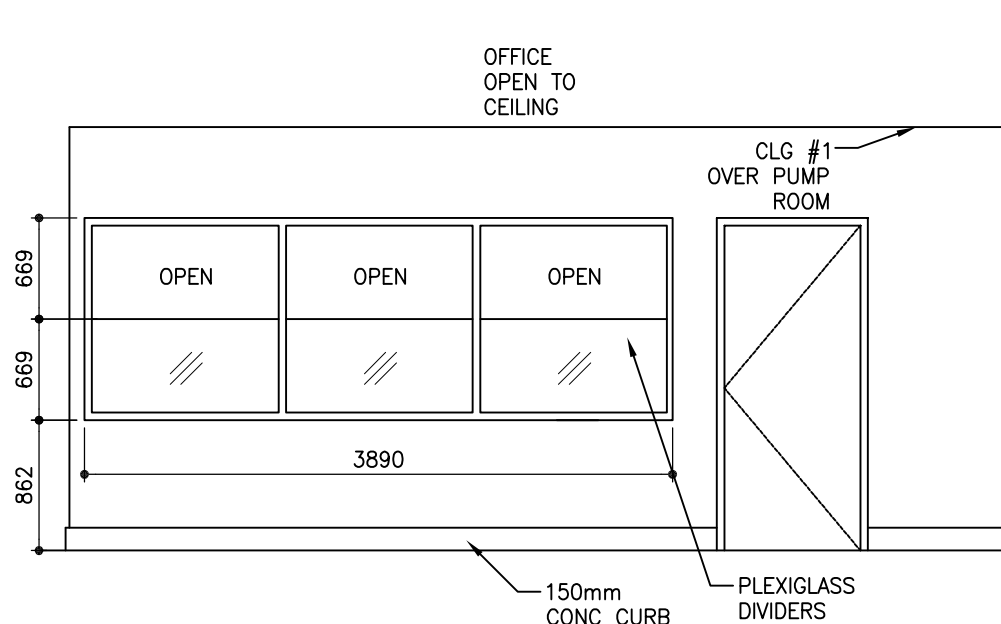
8 ELEV. LARGE LOCKER RM 1-33 NORTH
SCALE: 1:50



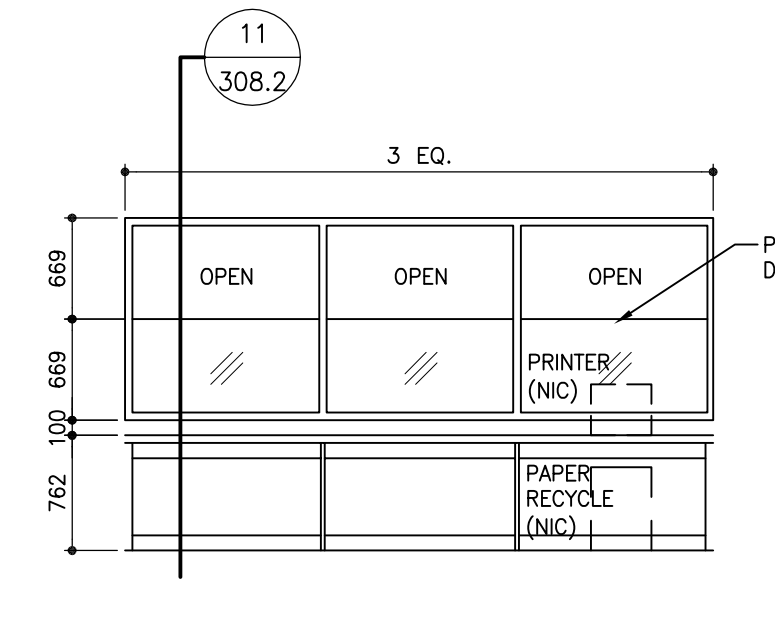
9 ELEV. LARGE CHG RM 1-21 NORTH
SCALE: 1:50



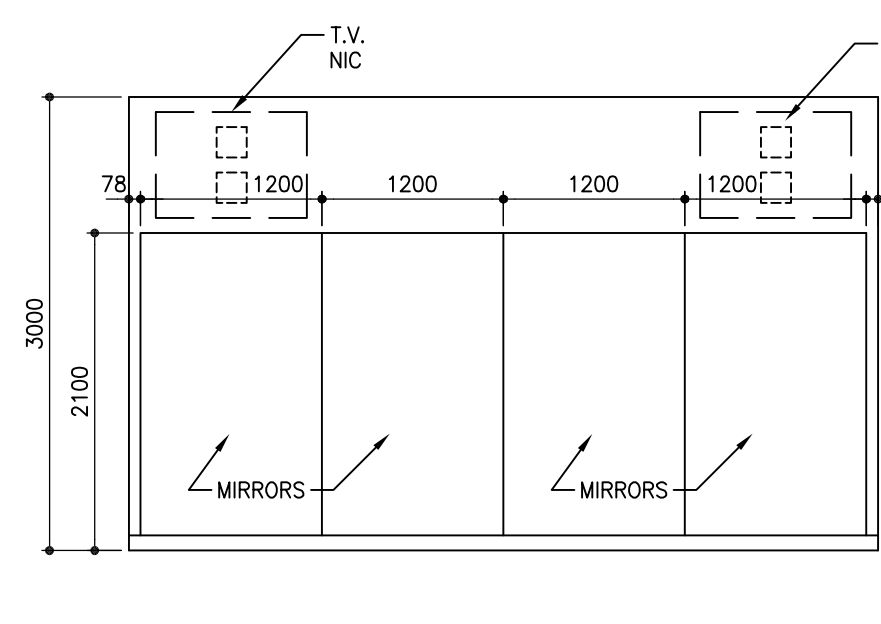
10 ELEVATION - OUTSIDE SUPERVISORS G-19 NORTH
SCALE: 1:50



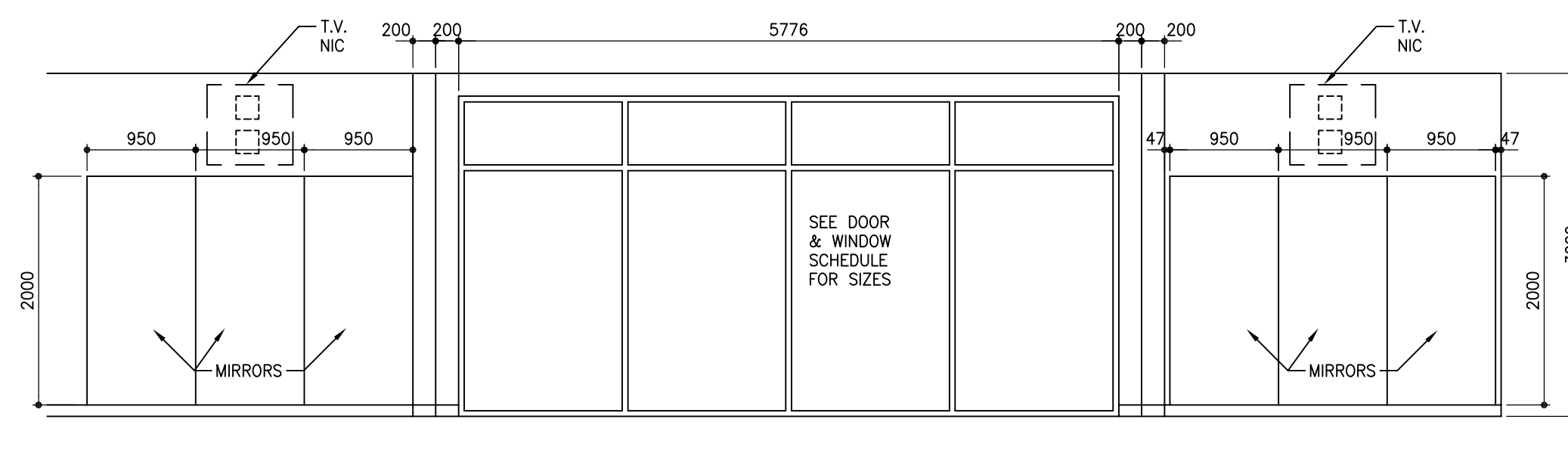
11 ELEVATION - OUTSIDE SUPERVISORS G-19 WEST
SCALE: 1:50



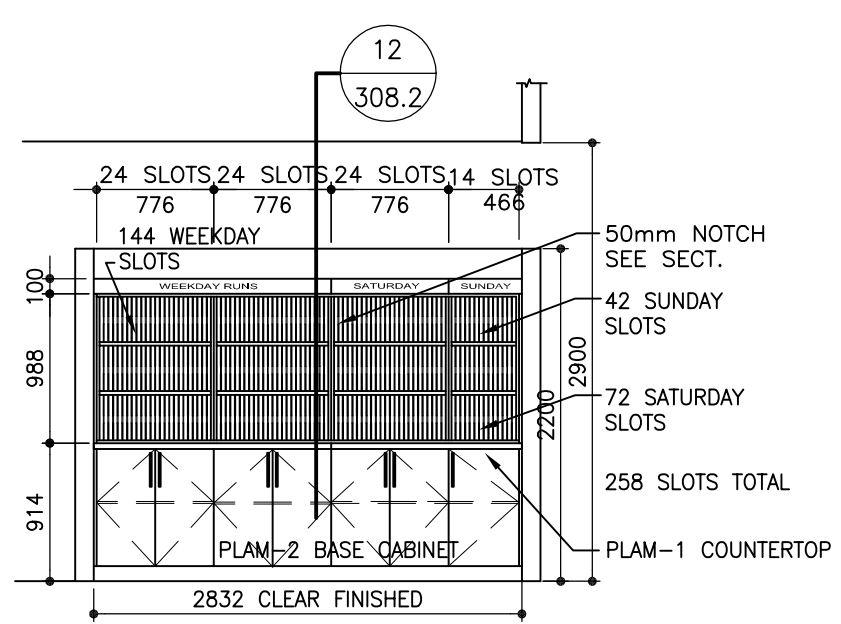
12 ELEV. - SUPERVISORS G-19 EAST
SCALE: 1:50



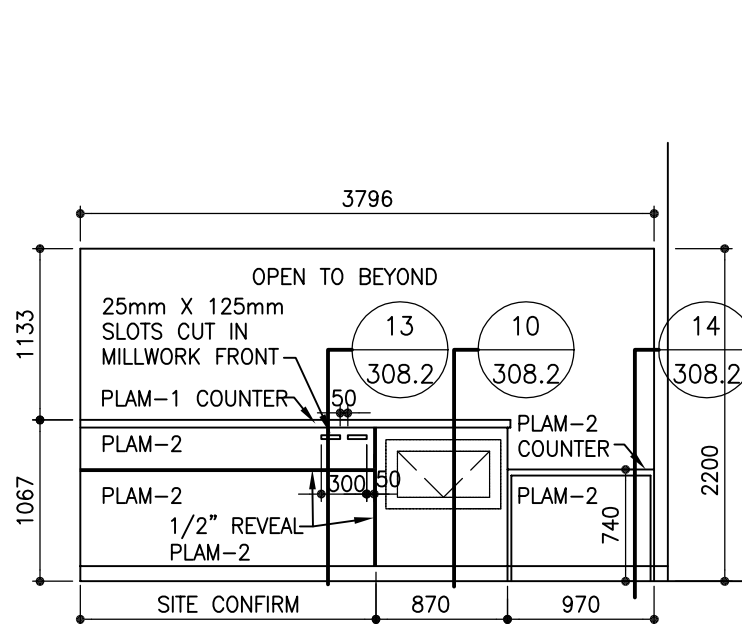
13 ELEV. - MULTI-USE RM 1-16 SOUTH
SCALE: 1:50



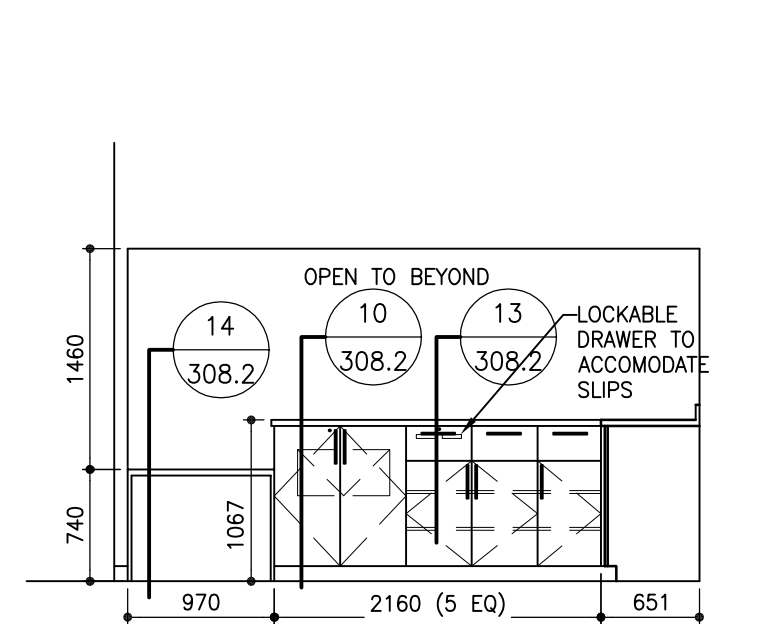
14 ELEV. - MULTI-USE RM 1-16 WEST
SCALE: 1:50



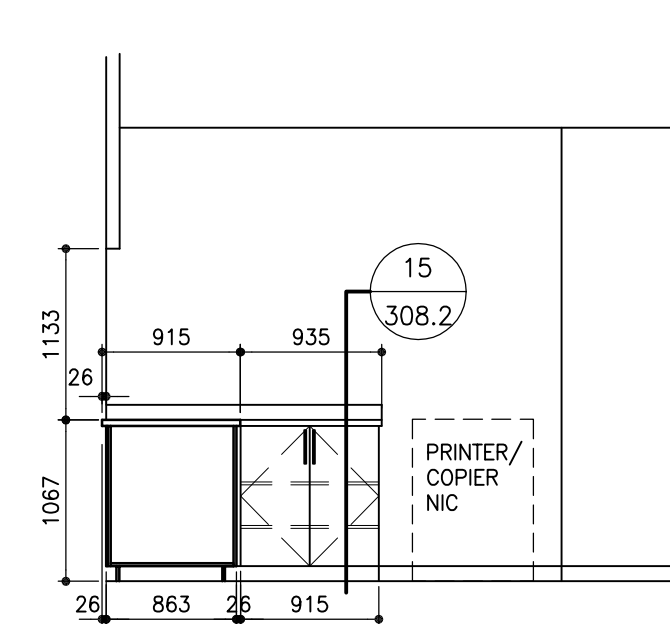
15 ELEV. SCHEDULE PICKUP SOUTH
SCALE: 1:50



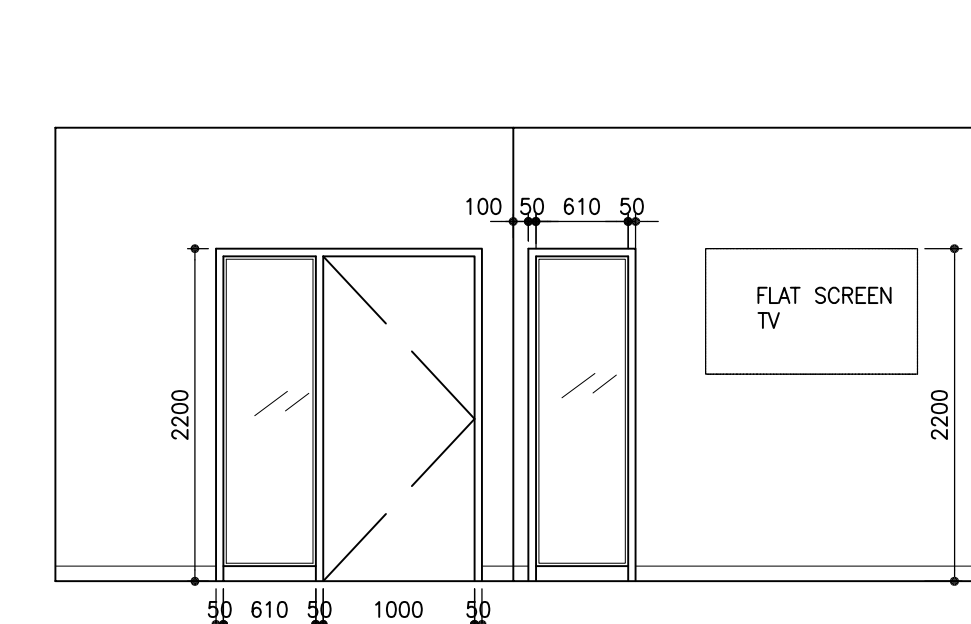
16 ELEV. RECEPTION 1-02 EAST
SCALE: 1:50



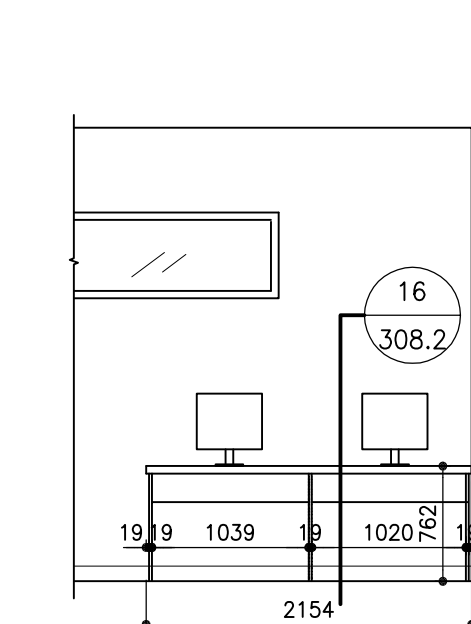
17 ELEV. - SHARED OFFICE 1-04 WEST
SCALE: 1:50



18 ELEV. - SHARED OFFICE 1-04 NORTH
SCALE: 1:50



19 ELEV. STAFF LOUNGE 1-07 NORTH
SCALE: 1:50

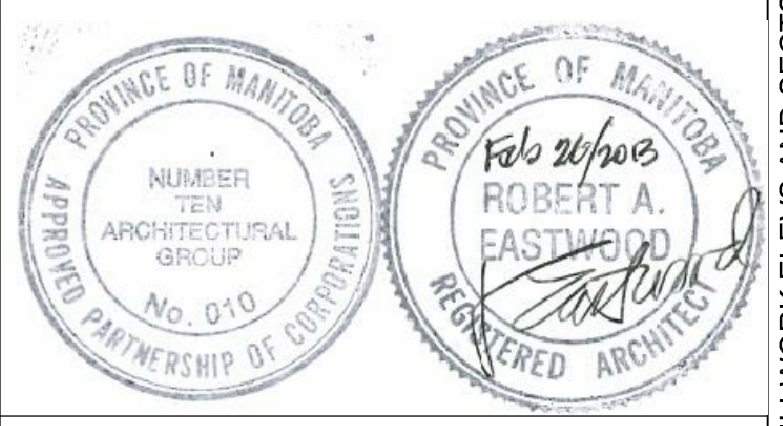


20 ELEV. STAFF LOUNGE 1-07 EAST
SCALE: 1:50

WASHROOM SYMBOL LEGEND

- A SOAP DISPENSER, WALL MOUNTED: NIC
TOP OF UNIT MOUNTED AT 1290mm A.F.F.
- D PAPER TOWEL DISP/WASTE RECEPTACLE, SURFACE MOUNT: FOR UTR NIC.
TOP OF UNIT MOUNTED AT 1530mm A.F.F.
- Q TRASH RING MANAGER

FOR FURTHER ACCESSORIES REFER TO 308.1



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architectural group
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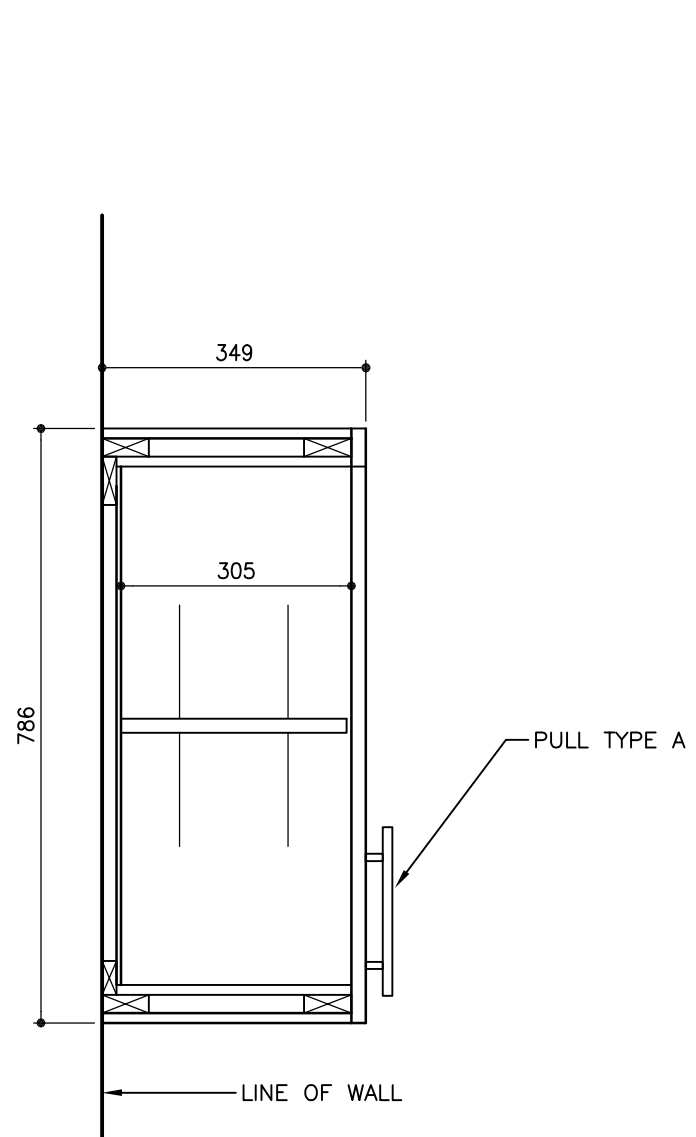
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

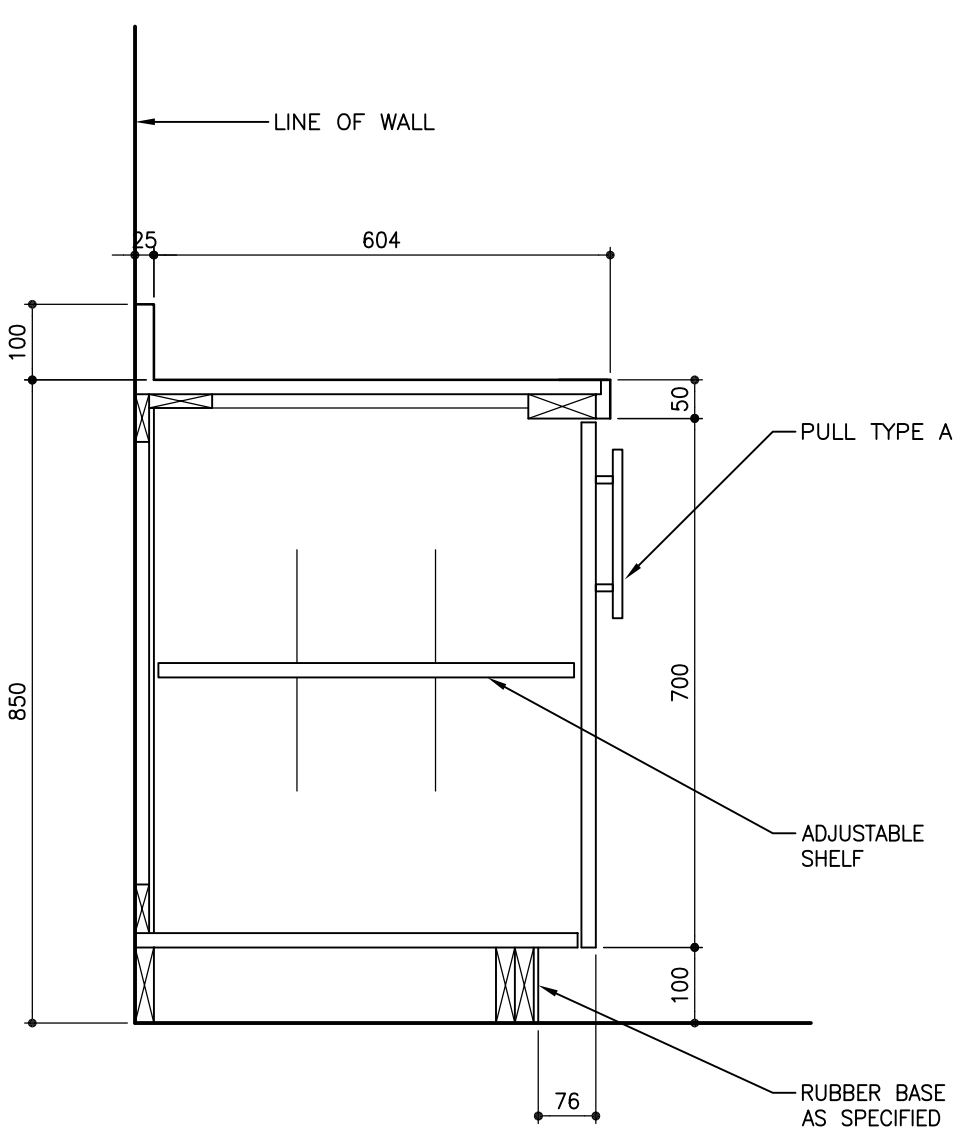
MILLWORK ELEVATIONS

Project number	2012021
Date	June 20, 2012
Drawn by	BP
Checked by	KF

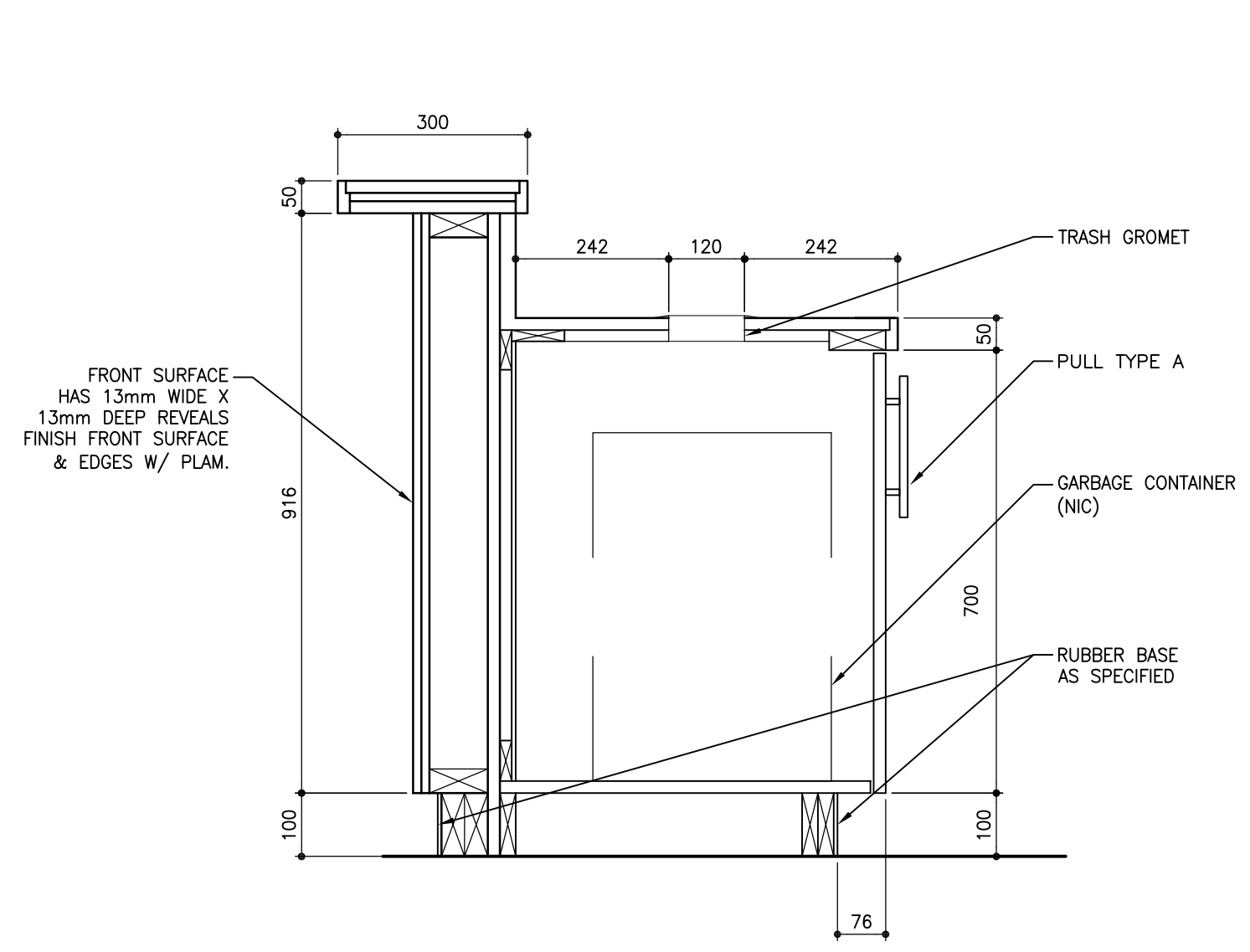
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 90% SUBMISSION	22/10/2013
ISSUED FOR 100% REVIEW	07/12/2013
ISSUED FOR CONSTRUCTION	27/02/2013



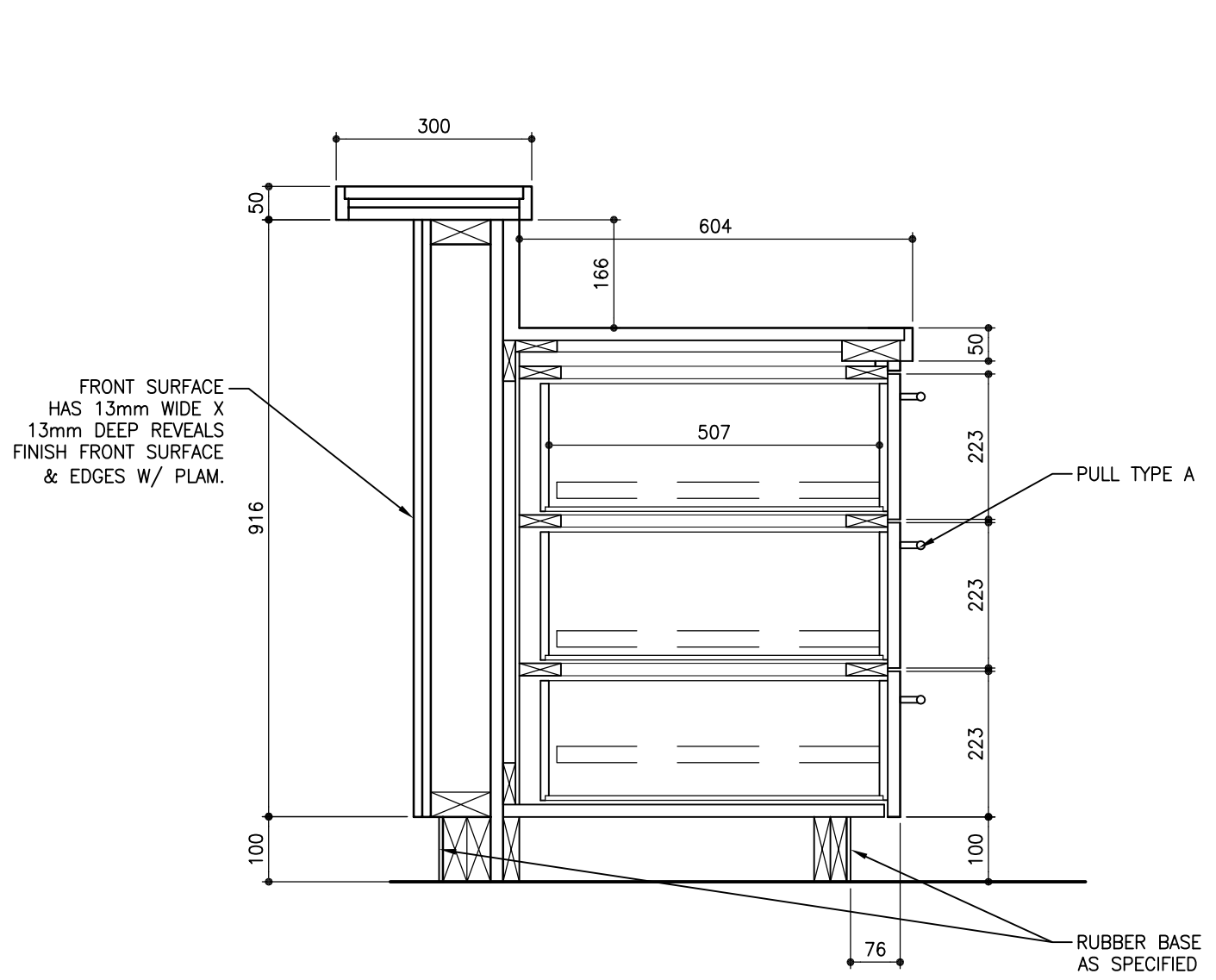
SECTION 1
UPPER KITCHEN CABINET
SCALE: 1:10



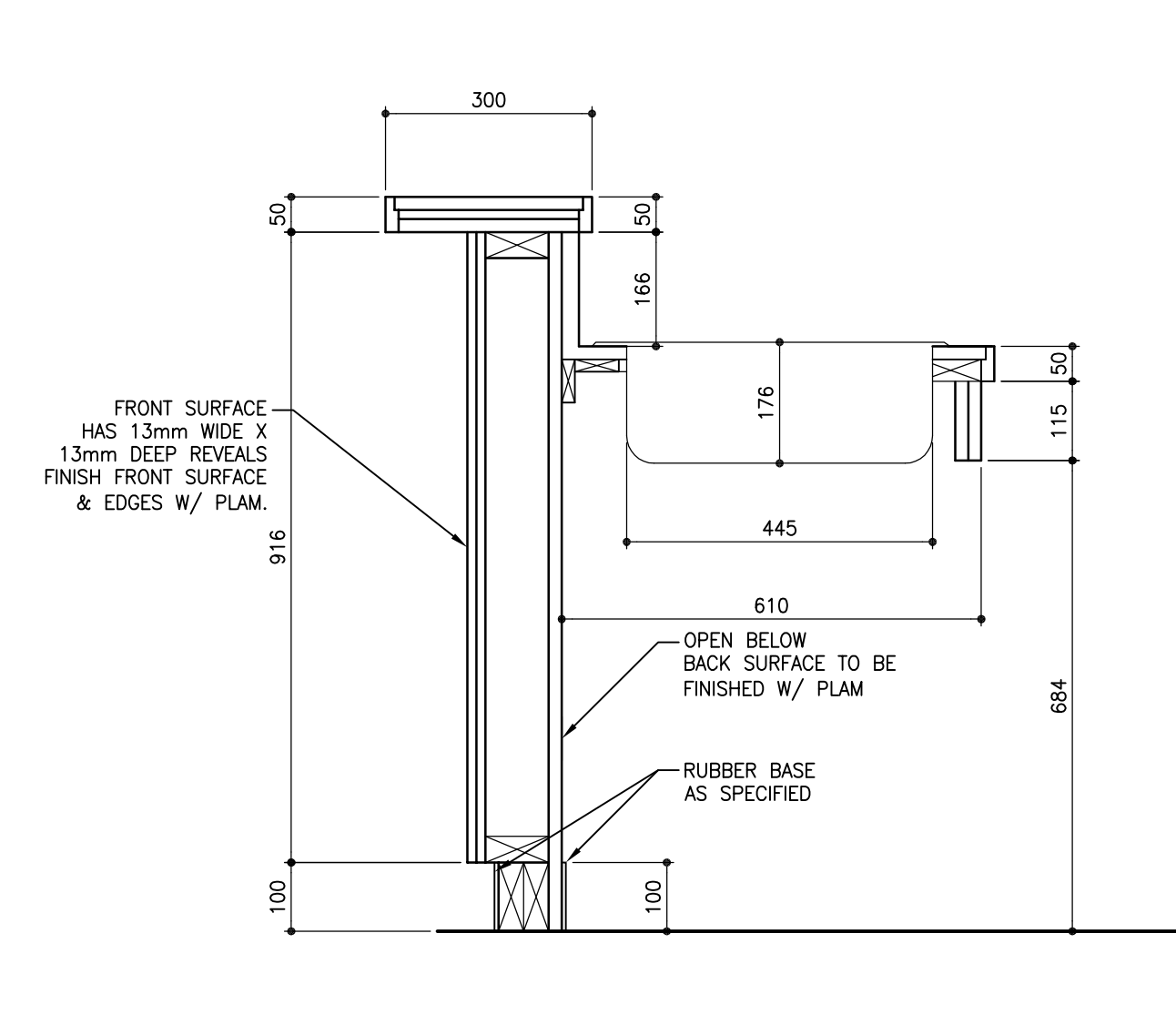
SECTION 2
LOWER KITCHEN CABINET
SCALE: 1:10



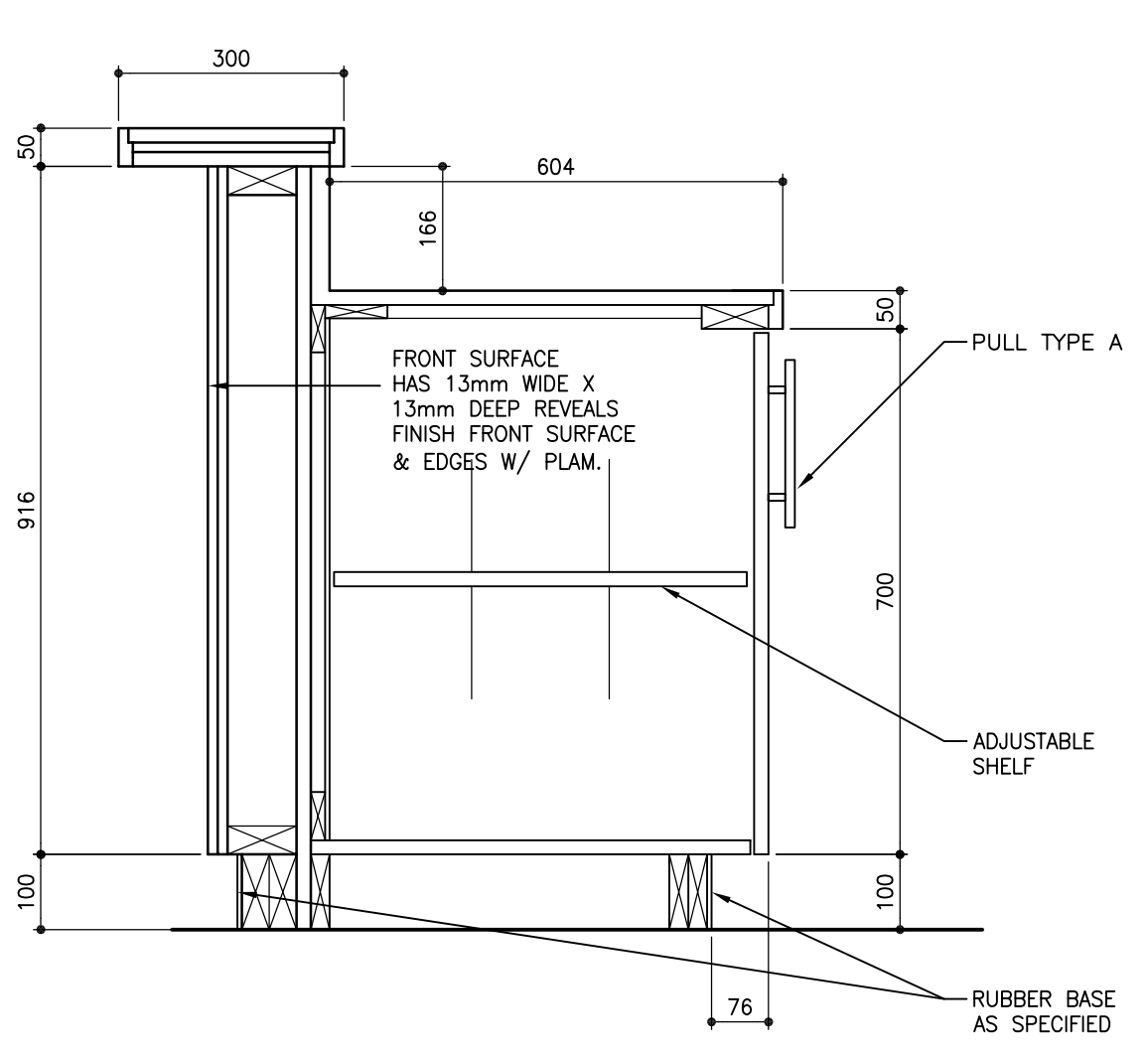
SECTION 3
KITCHEN CABINET
WASTE DISPOSAL
SCALE: 1:10



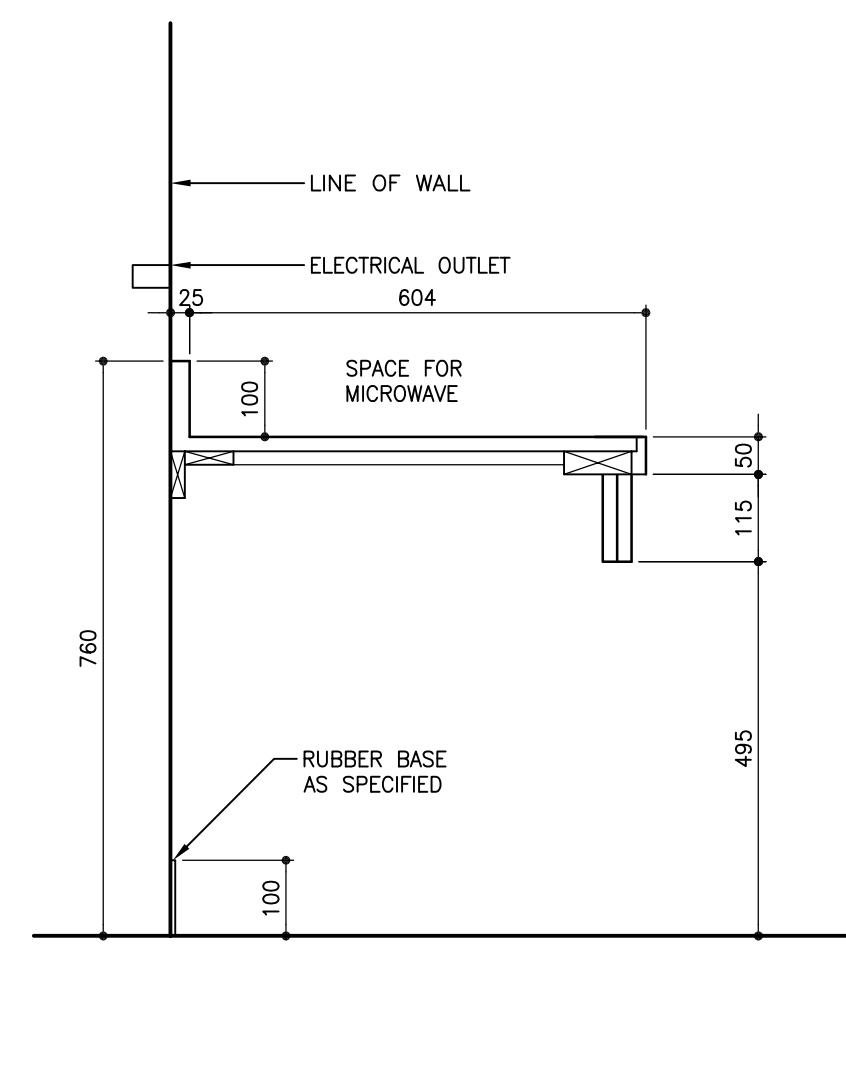
SECTION 4
KITCHEN CABINET
DRAWER UNIT
SCALE: 1:10



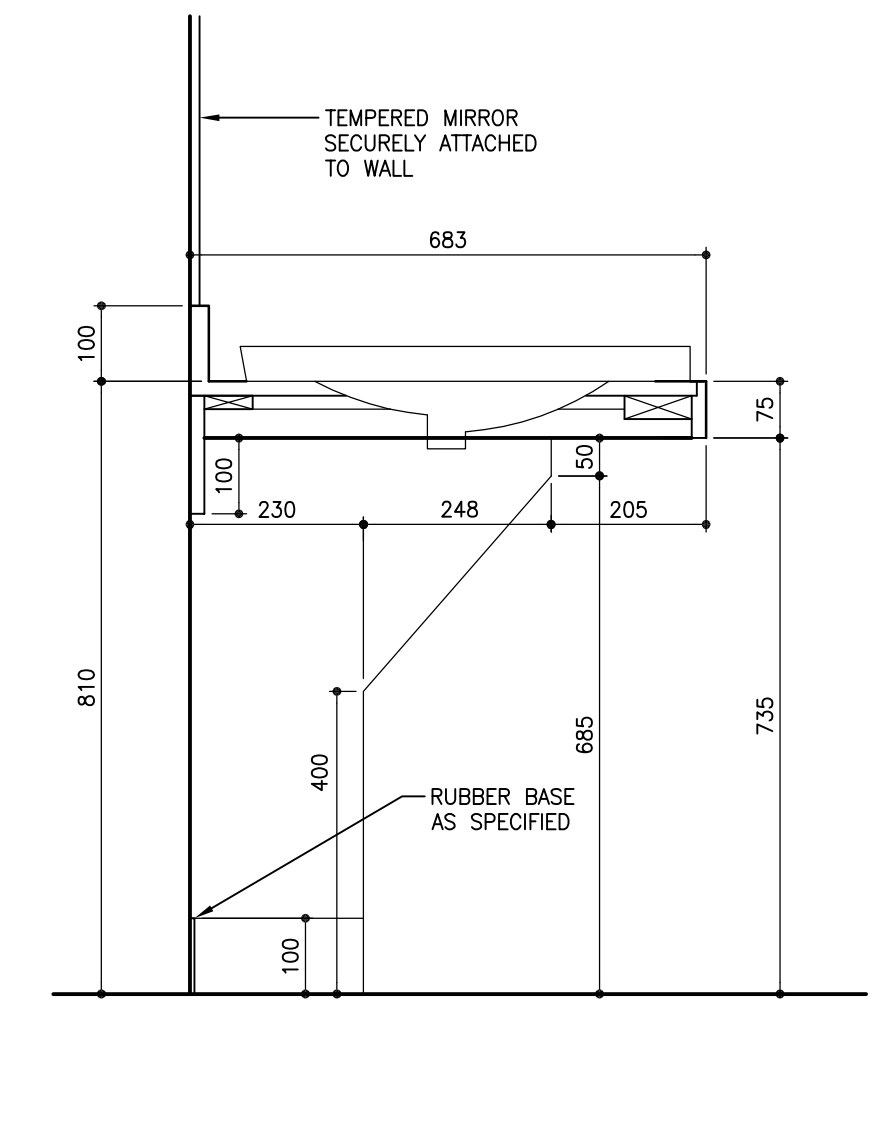
SECTION 5
KITCHEN CABINET
AT ACCESSIBLE SINK
SCALE: 1:10



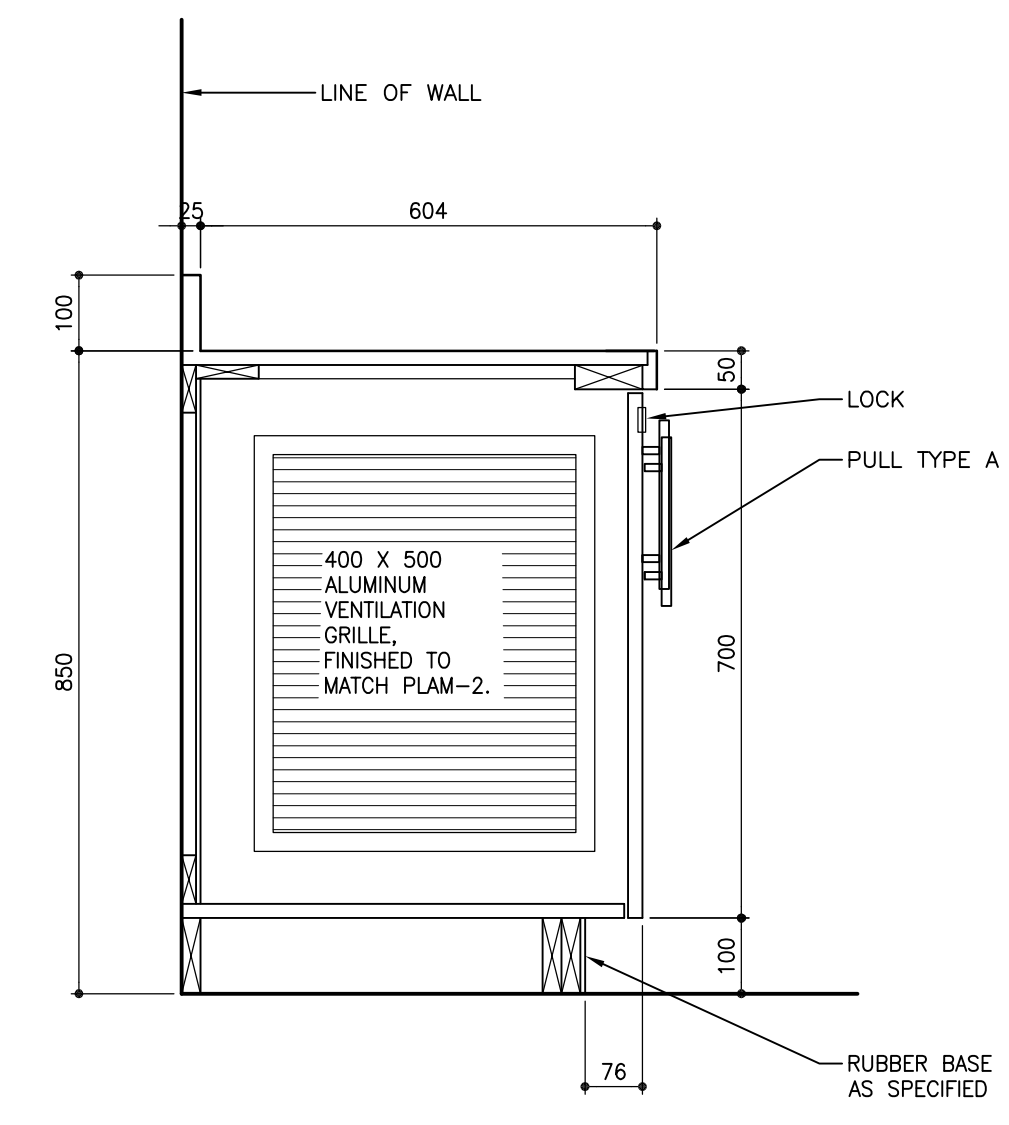
SECTION 6
LOWER KITCHEN CABINET
AT BAR
SCALE: 1:10



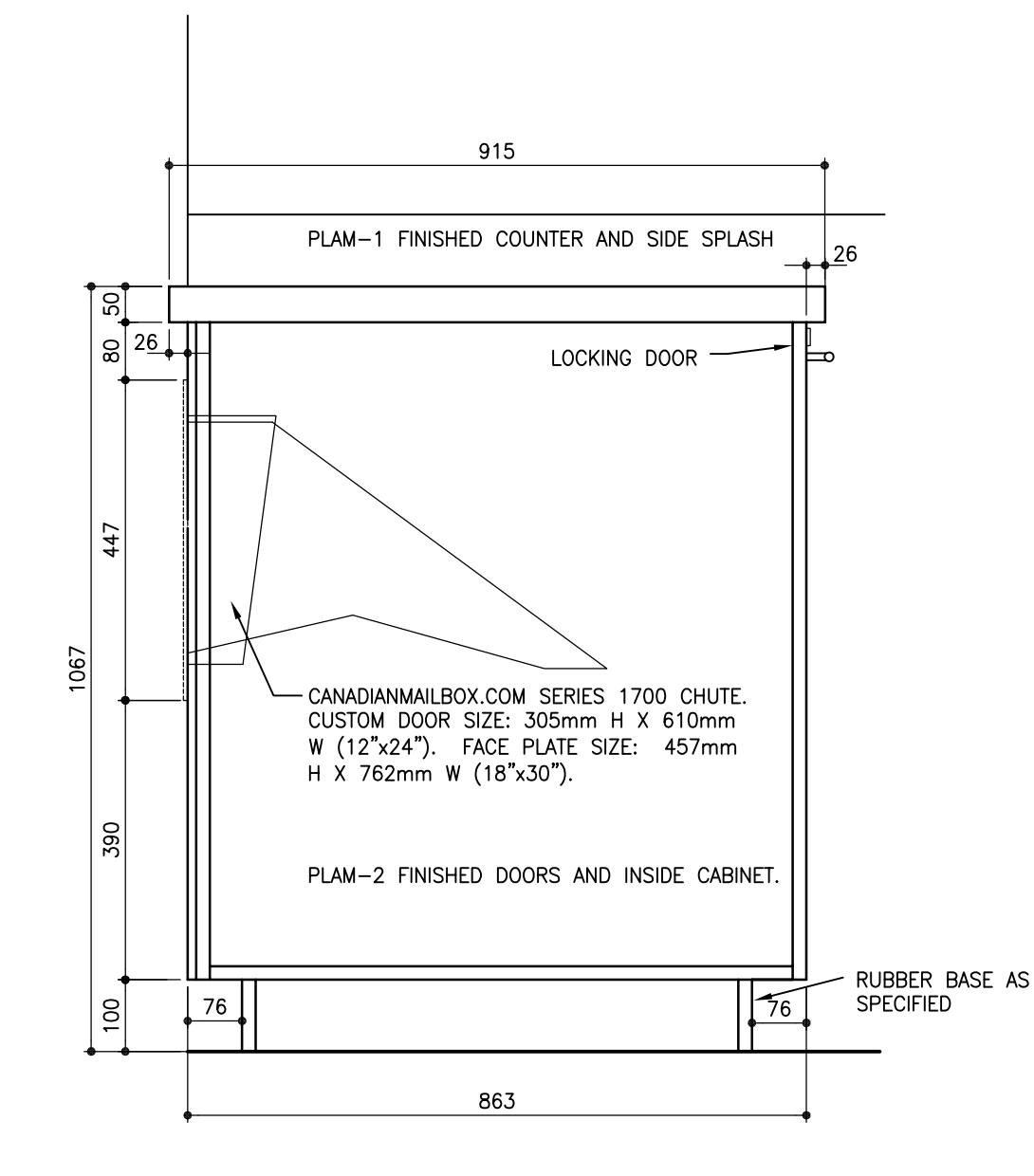
SECTION 7
MICROWAVE COUNTER
SCALE: 1:10



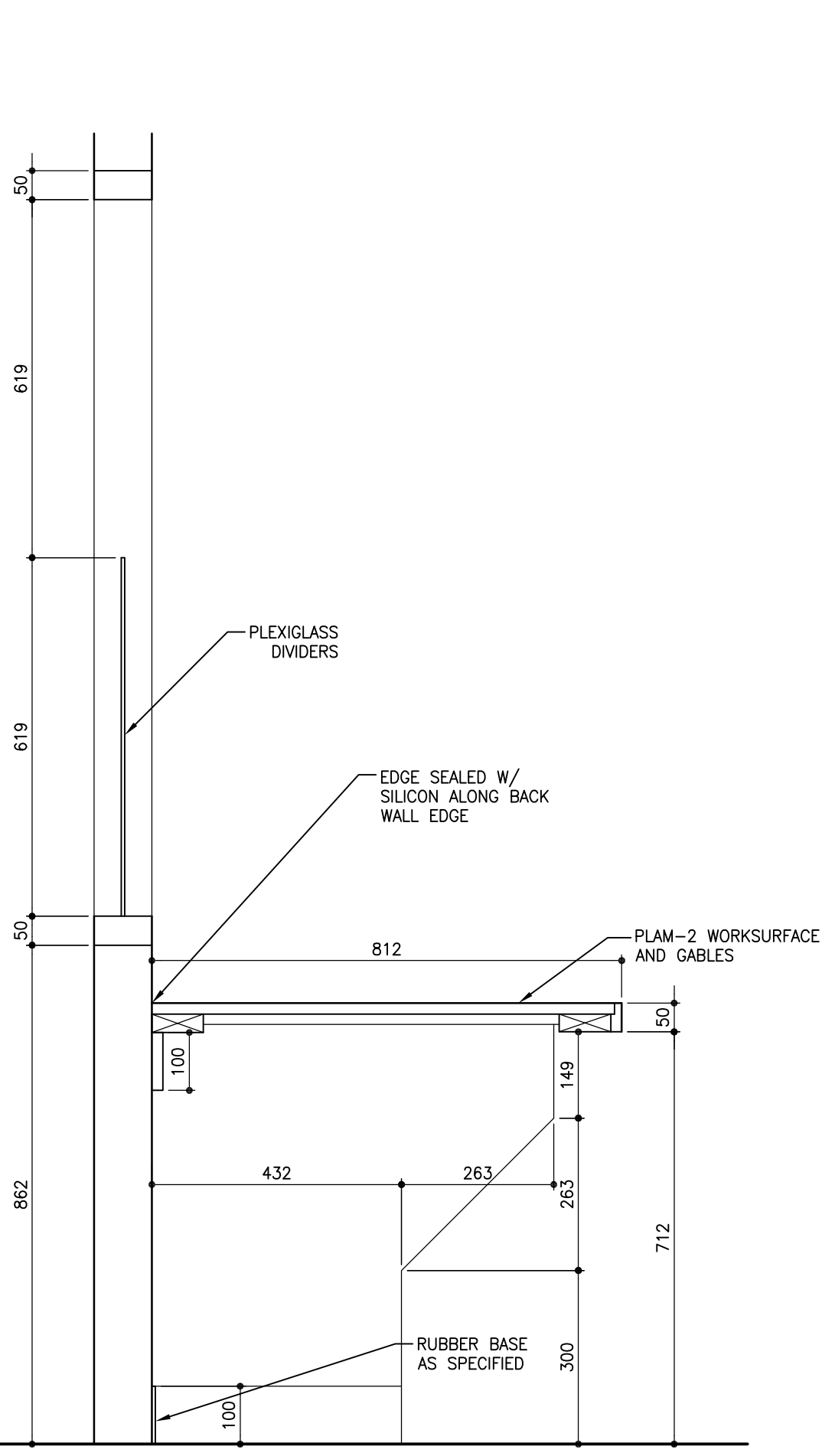
SECTION 8
WASHROOM COUNTERTOP
SCALE: 1:10



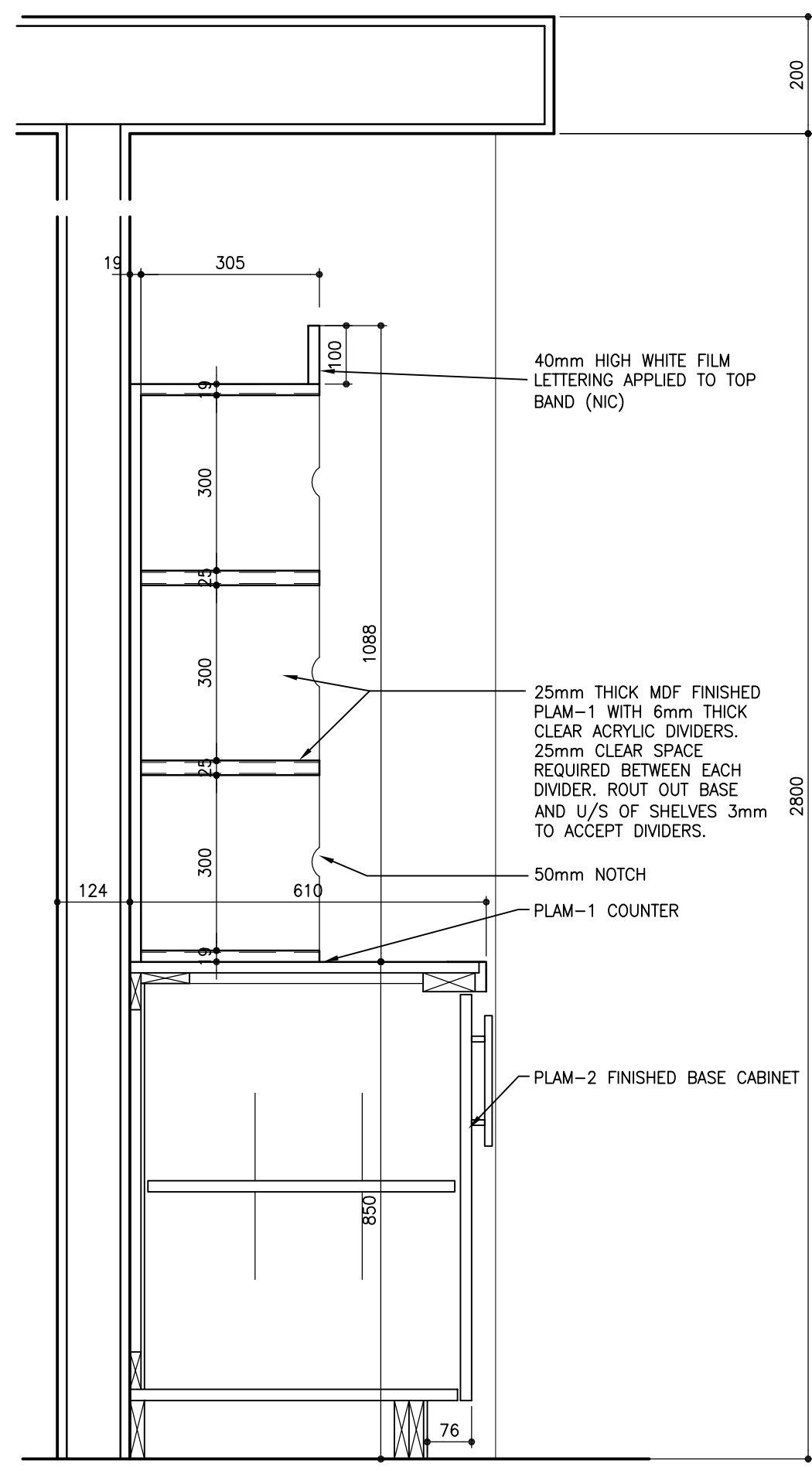
SECTION 9
STEREO CABINET
SCALE: 1:10



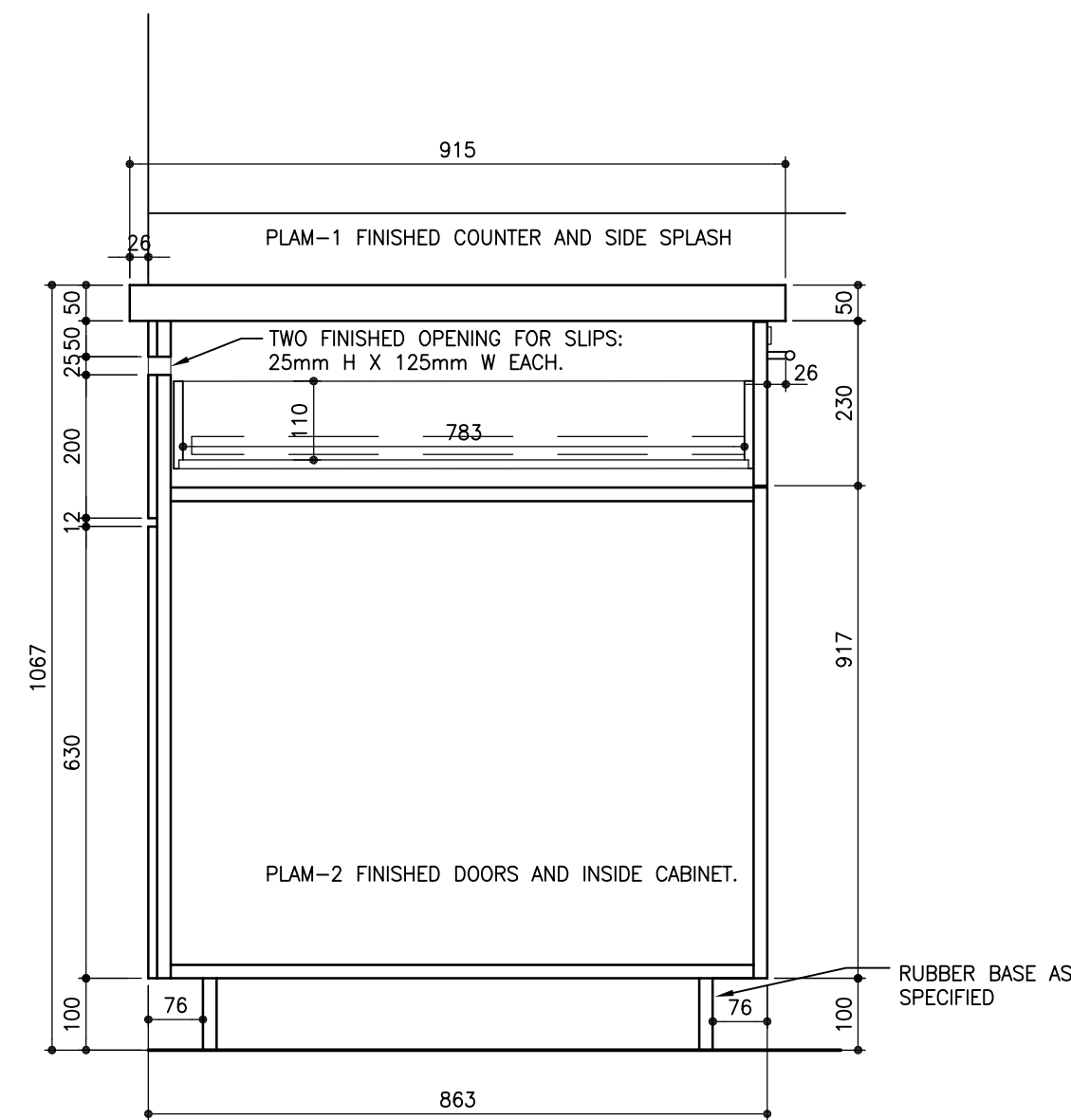
SECTION 10
LOST AND FOUND CHUTE
SCALE: 1:10



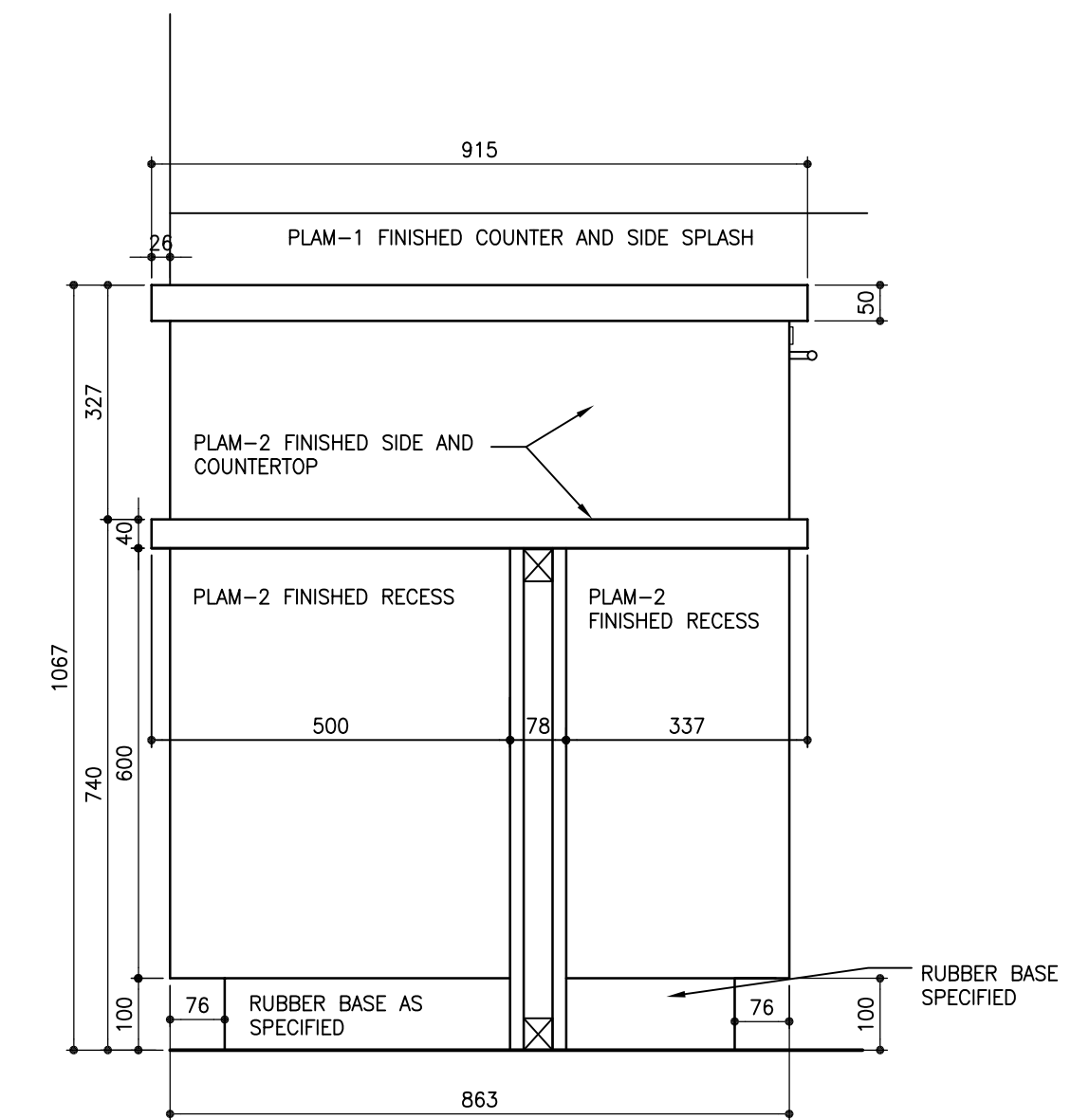
SECTION 11
SUPERVISORS G-19
WORKSURFACE
SCALE: 1:10



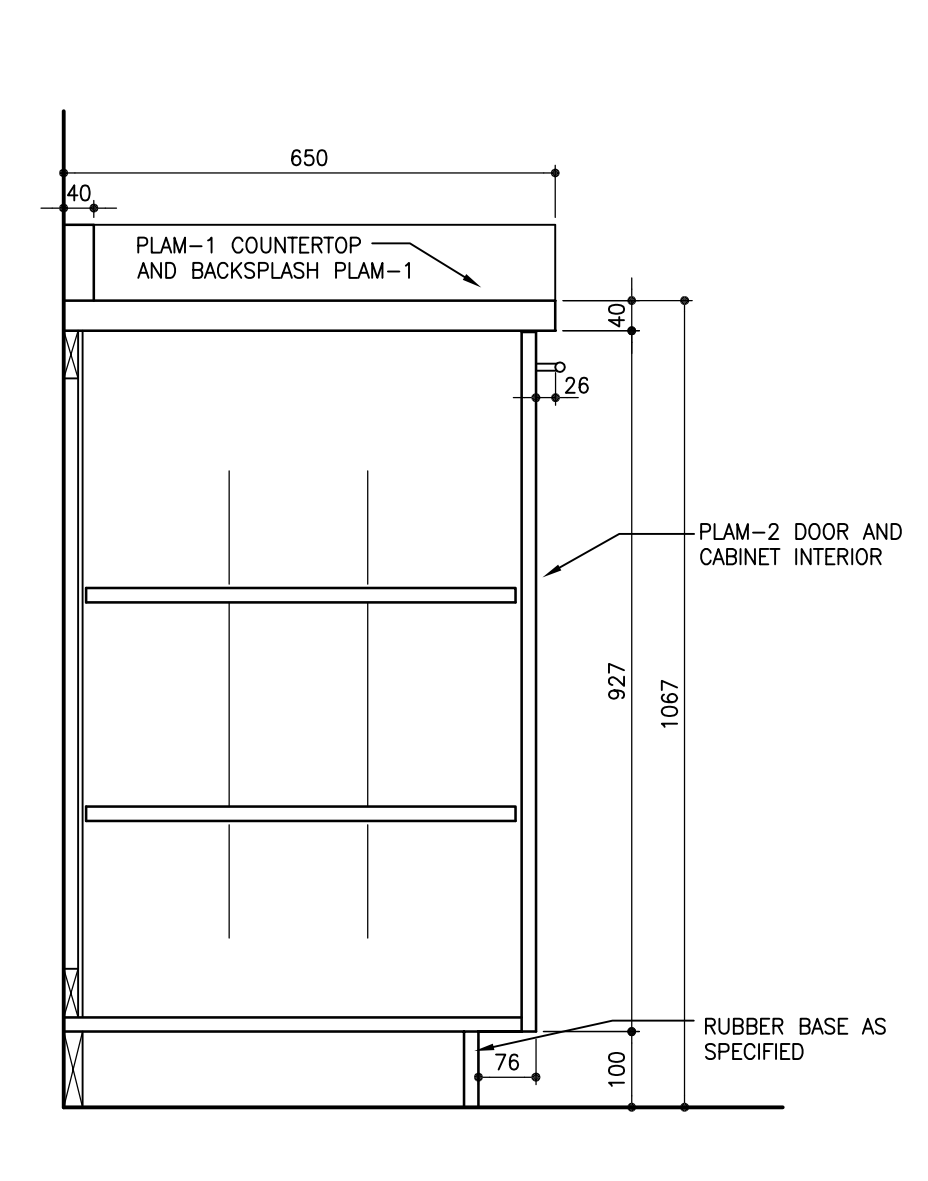
SECTION 12
SCHEDULE PICK-UP 1-05
PIGEON HOLES AND LOWER CABINET
SCALE: 1:10



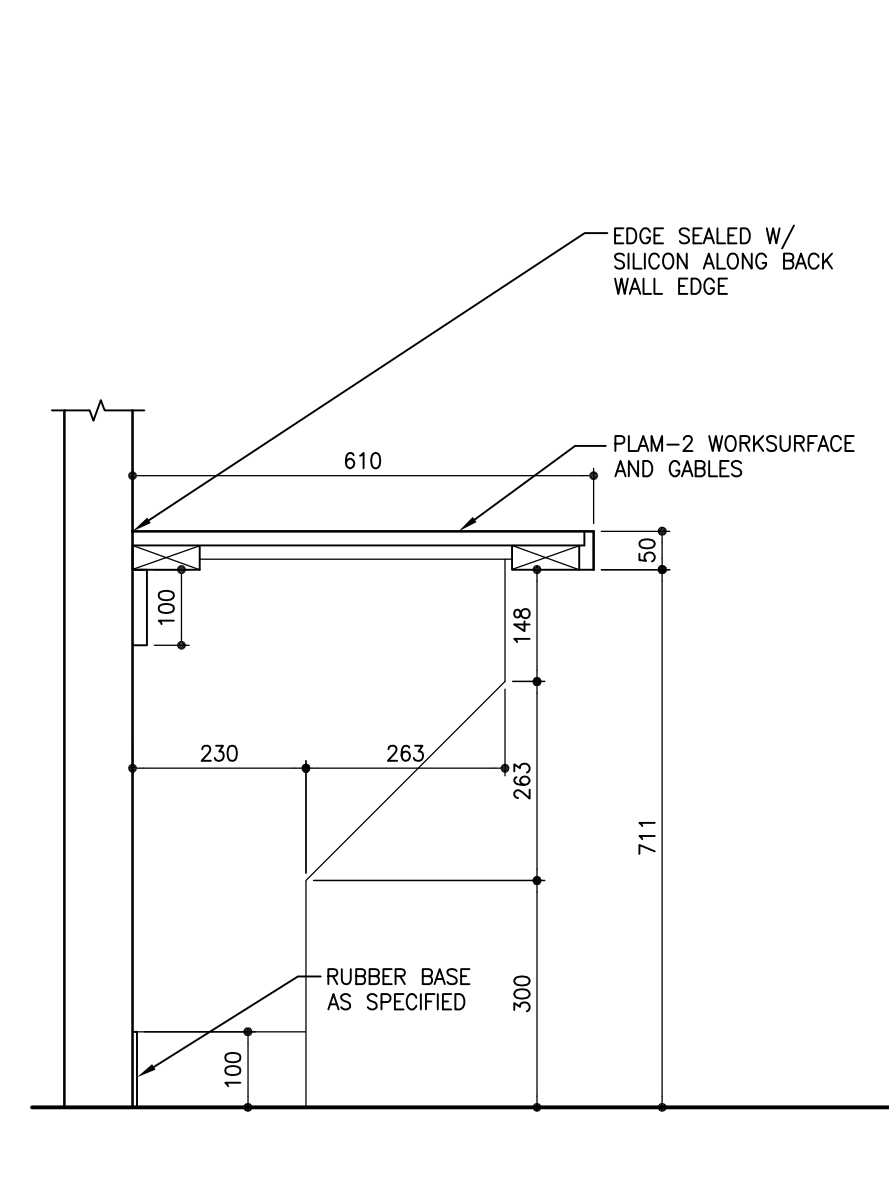
SECTION 13
DRAWER FOR SLIPS
SCALE: 1:10



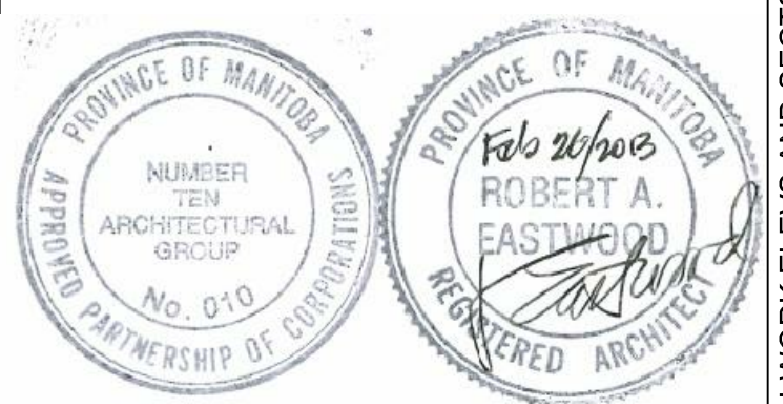
SECTION 14
BARRIER FREE COUNTER
SCALE: 1:10



SECTION 15
CABINET SHARED OFFICE
SCALE: 1:10



SECTION 16
COMPUTER WORKSTATION LOUNGE 1-07
SCALE: 1:10



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consultant
numberTEN
architectural group
Winnipeg MB Regina SK Victoria BC
204.942.0981 306.721.1501 250.360.2106
architecture • interior design • graphic design

TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MILLWORK SECTIONS

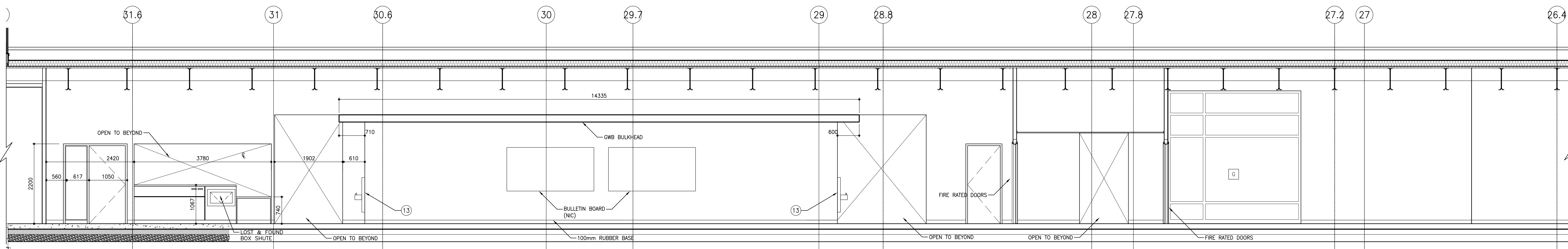
Project number	2012021
Date	June 20, 2012
Drawn by	BP
Checked by	KF

P:\2012\2012021 - City of Winnipeg Transit Garage\3.0 Contract Documents\Working Drawings\Current Dwg\308.1-2 MILLWORK ELEVATIONS AND SECTIONS.dwg

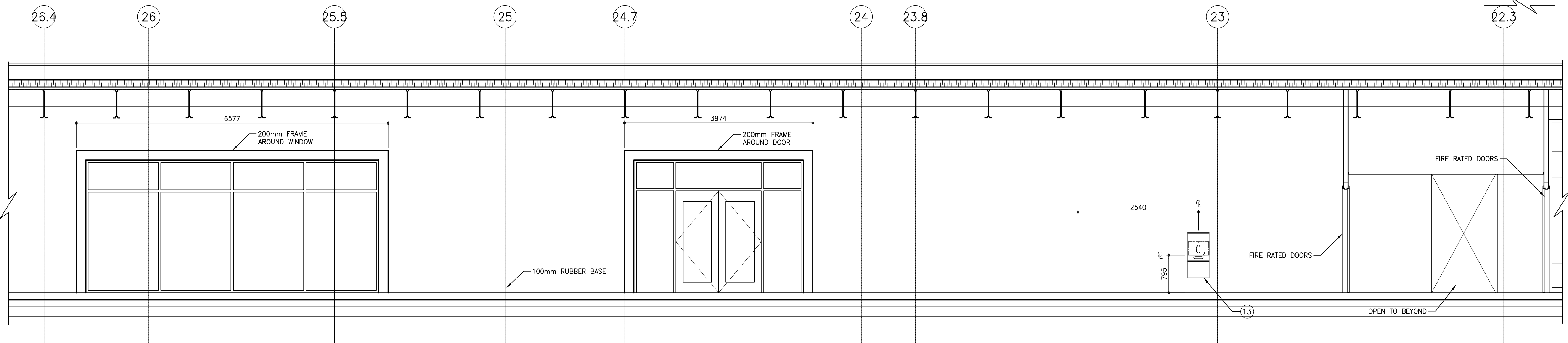
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 90% SUBMISSION	22/10/2013
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

KEYNOTE LEGEND

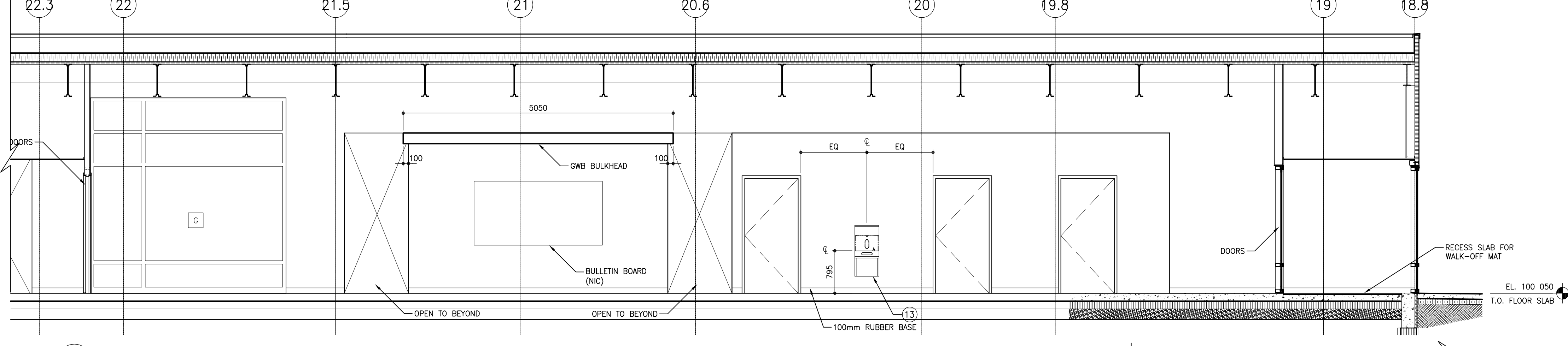
- 1 WASH BAY CURTAIN
- 2 WINDOW FOR CURTAIN
- 3 GROMMET C/W ANCHOR CLIPS
- 4 WEIGHT CHAIN FOR CURTAIN
- 5 TRACK FOR BUS WASH CURTAIN
- 6 CONCRETE UPSTAND
- 7 INSULATED METAL PANEL
- 8 STEEL FRAMING, TYP
- 9 OVERHEAD DOOR
- 10 METAL LINER PANEL
- 11 HOLLOW METAL DOOR, PAINTED
- 12 MECHANICAL LOUVER
- 13 DRINKING FOUNTAIN
- 14 EYE WASH STATION
- 15 HAND SINK
- 16 FARE VAULT
- 17 500Wx500Lx150H CONCRETE CURB
- 18 COLUMN GUARD
- 19 ELECTRIC BUS CHARGER
- 20 TORSION SPRING
- 21 5 HOSE REEL CABINET - BY CENTURY
- 22 GAS PUMP - BY CENTURY
- 23 FUEL STATION - BY CENTURY
- 24 SUSPENSION RODS FOR TRACK



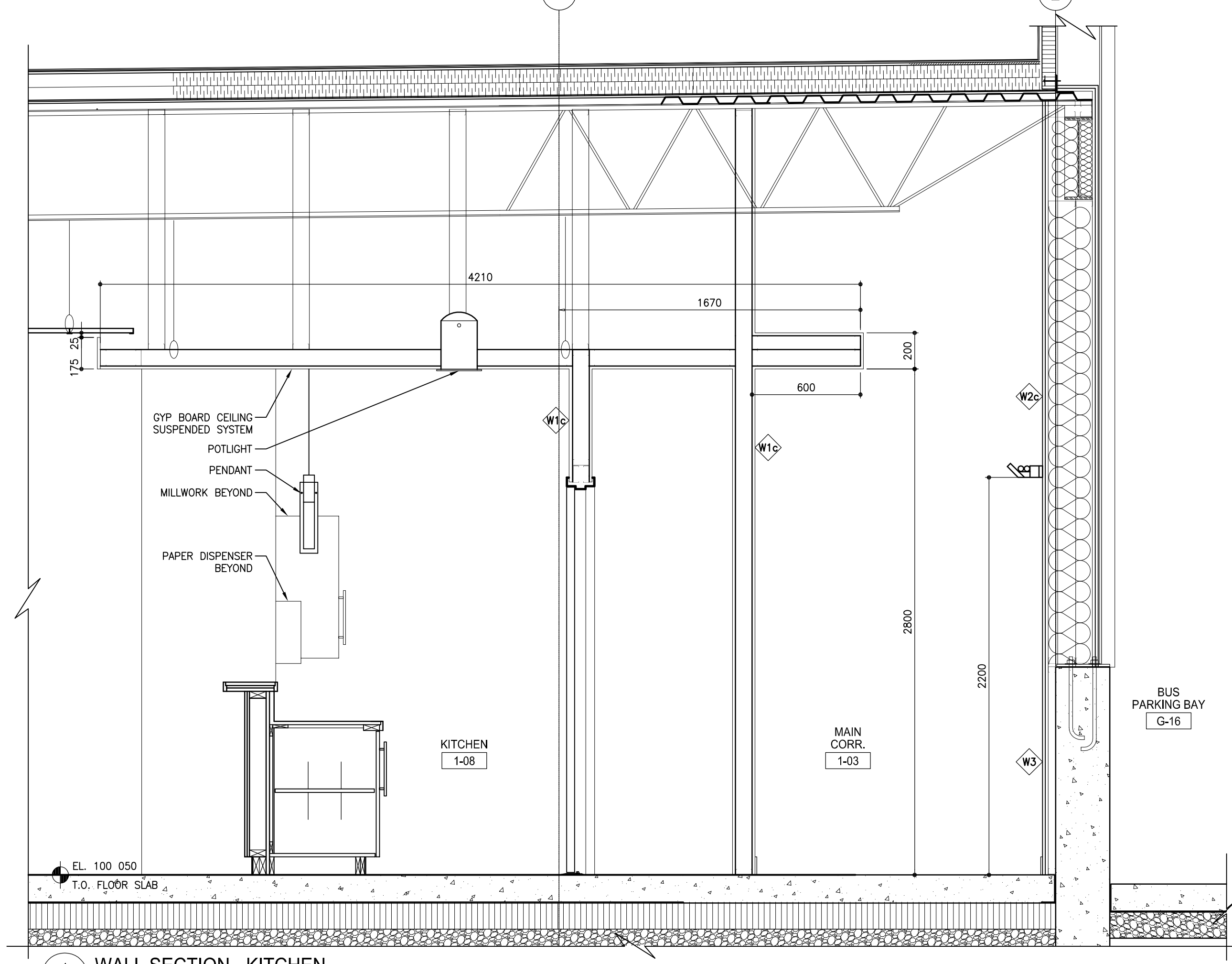
1 INTERIOR ELEVATION
309.1 SCALE: 1/50



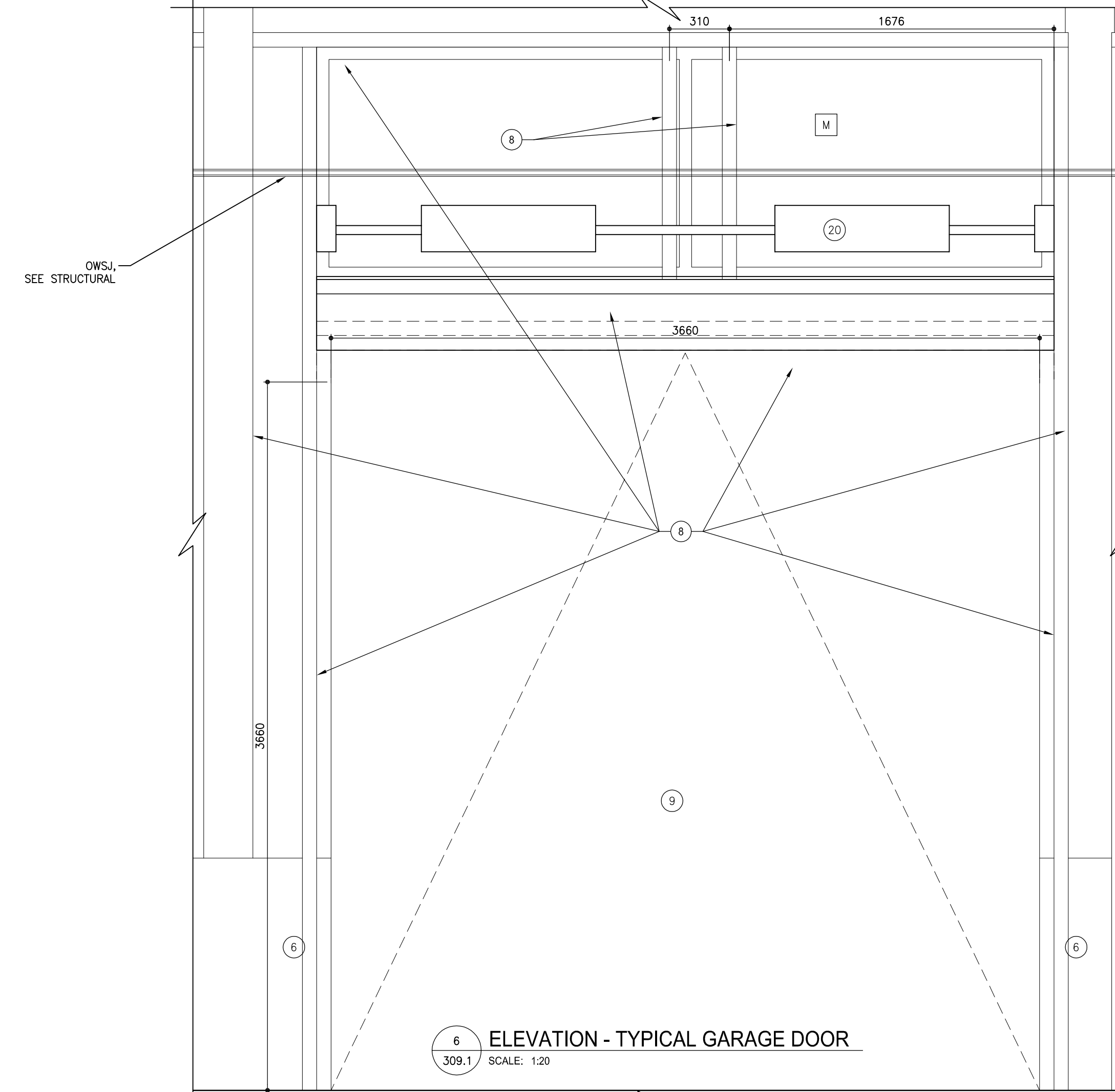
2 INTERIOR ELEVATION
309.1 SCALE: 1/50



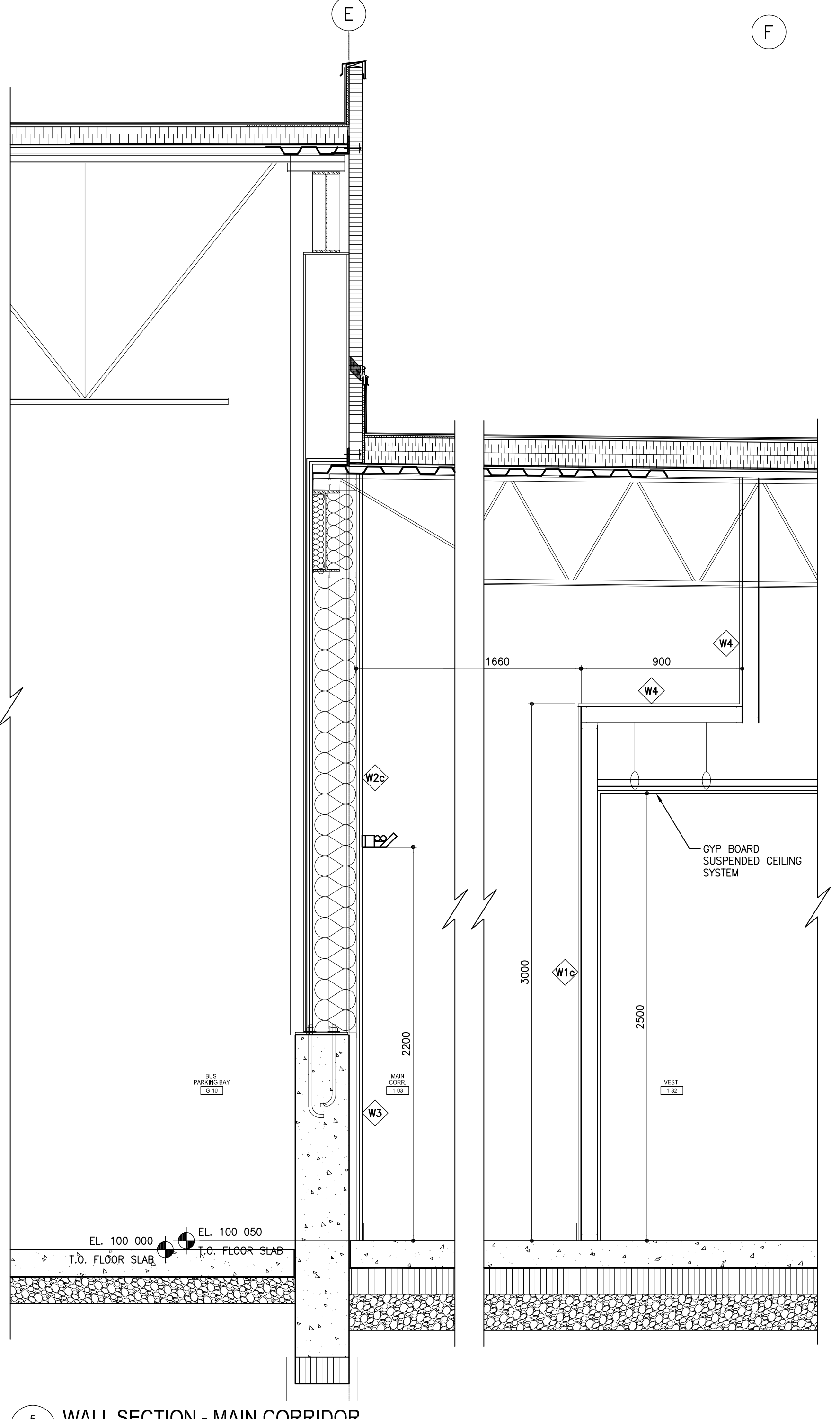
3 INTERIOR ELEVATION
309.1 SCALE: 1/50



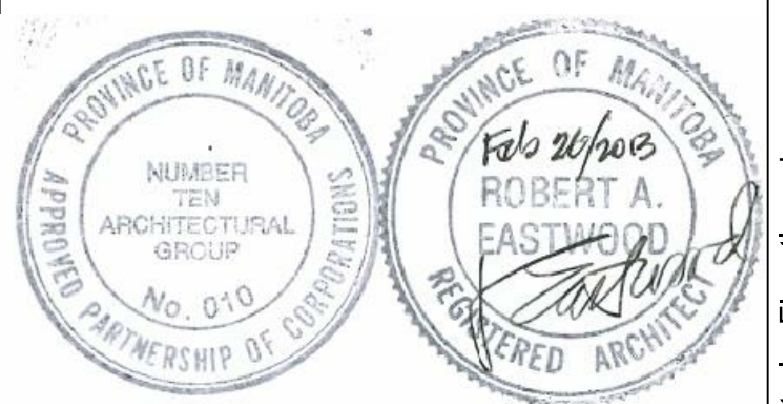
4 WALL SECTION - KITCHEN
309.1 SCALE: 1/20



6 ELEVATION - TYPICAL GARAGE DOOR
309.1 SCALE: 1/20



5 WALL SECTION - MAIN CORRIDOR
309.1 SCALE: 1/50



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numberTEN
architectural group
winnipeg MB regina SK victoria BC
204 942.0981 306 721.1501 250 360.2106
architecture • interior design • graphic design

TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

INTERIOR ELEVATIONS

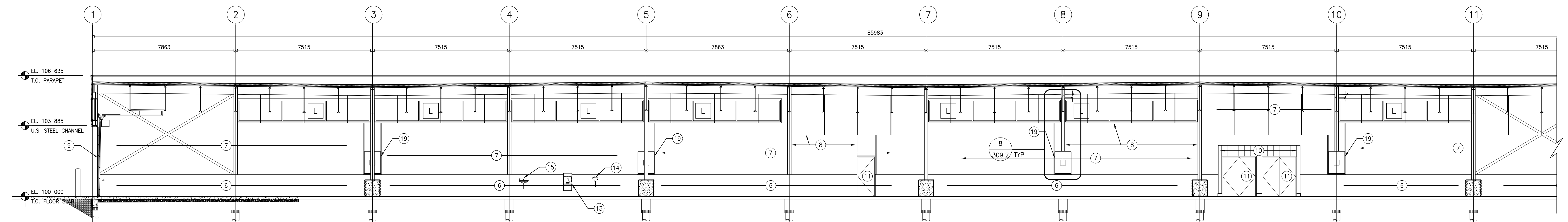
Project number	2012021
Date	June 20, 2012
Drawn by	BP
Checked by	KF

Scale AS NOTED **309.1**

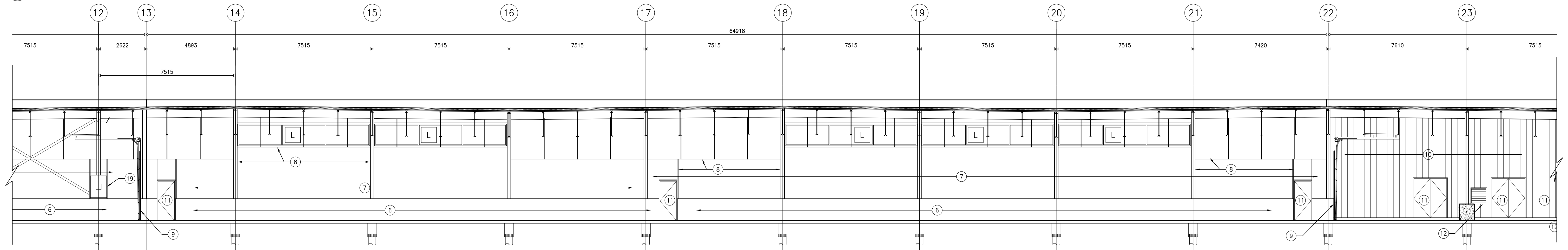
REVISED / ISSUED / PLOTTED	DATE
ISSUED FOR 90% SUBMISSION	22/10/2013
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013

KEYNOTE LEGEND

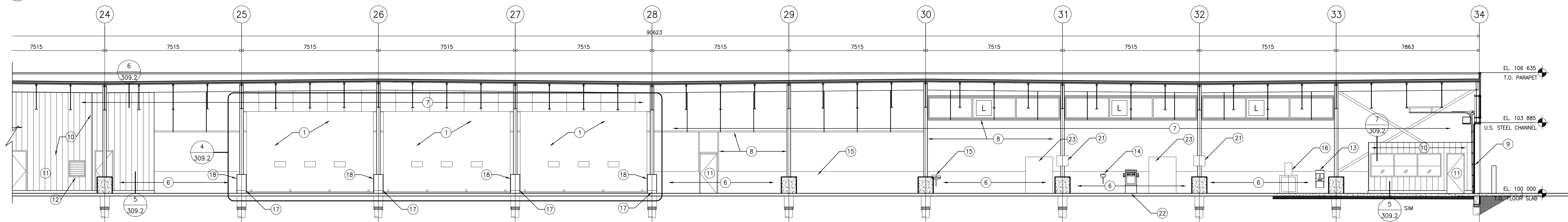
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- 2 WINDOW FOR CURTAIN
- 3 GROMMET C/W ANCHOR CLIPS
- 4 WEIGHT CHAIN FOR CURTAIN
- 5 TRACK FOR BUS WASH CURTAIN
- 6 CONCRETE UPSTAND
- 7 INSULATED METAL PANEL
- 8 STEEL FRAMING, TYP
- 9 OVERHEAD DOOR
- 10 METAL LINER PANEL
- 11 HOLLOW METAL DOOR, PAINTED
- 12 MECHANICAL LOUVER
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- 16 FARE VAULT
- 17 500Wx500Lx150H CONCRETE CURB
- 18 COLUMN GUARD
- 19 ELECTRIC BUS CHARGER
- 20 TORSION SPRING
- 21 5 HOSE REEL CABINET - BY CENTURY
- 22 GAS PUMP - BY CENTURY
- 23 FUEL STATION - BY CENTURY
- 24 SUSPENSION RODS FOR TRACK



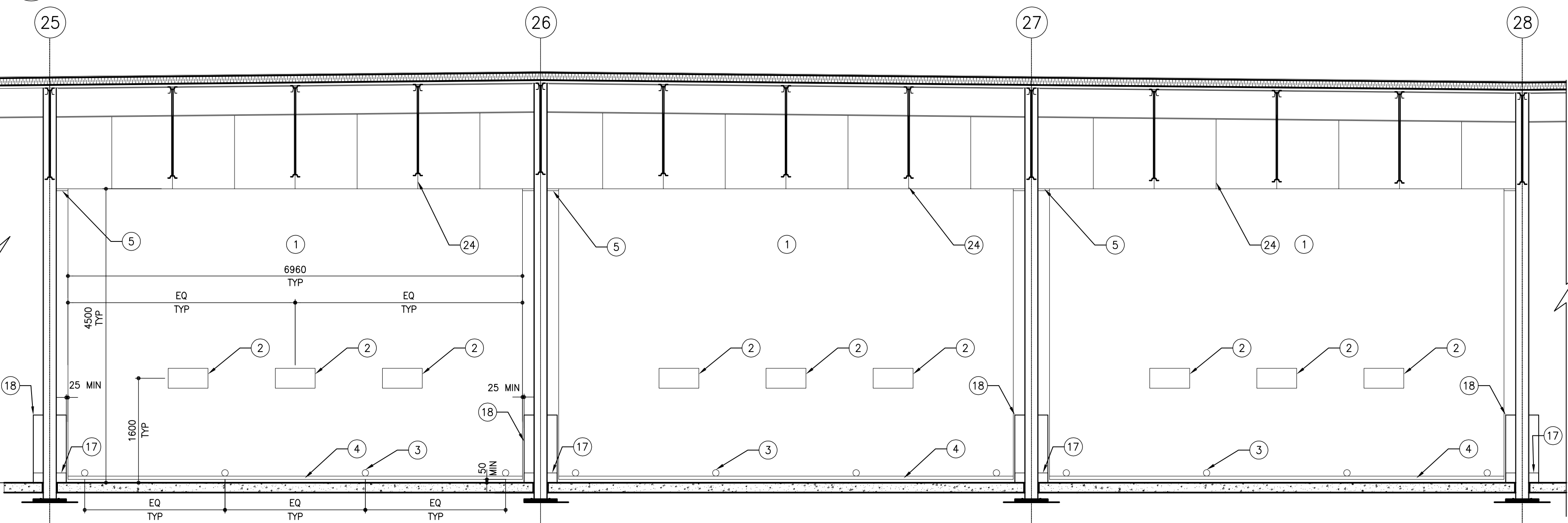
1 INTERIOR ELEVATION
SCALE: 1:100



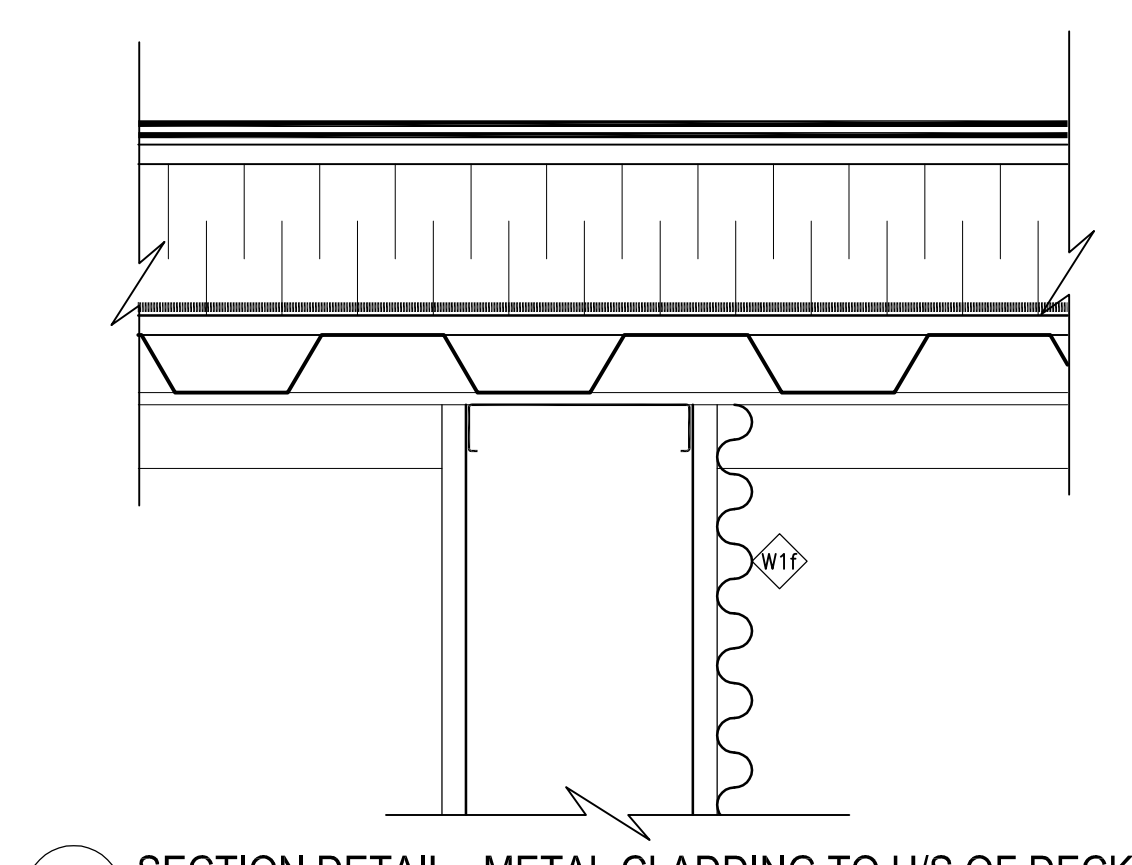
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SCALE: 1:100



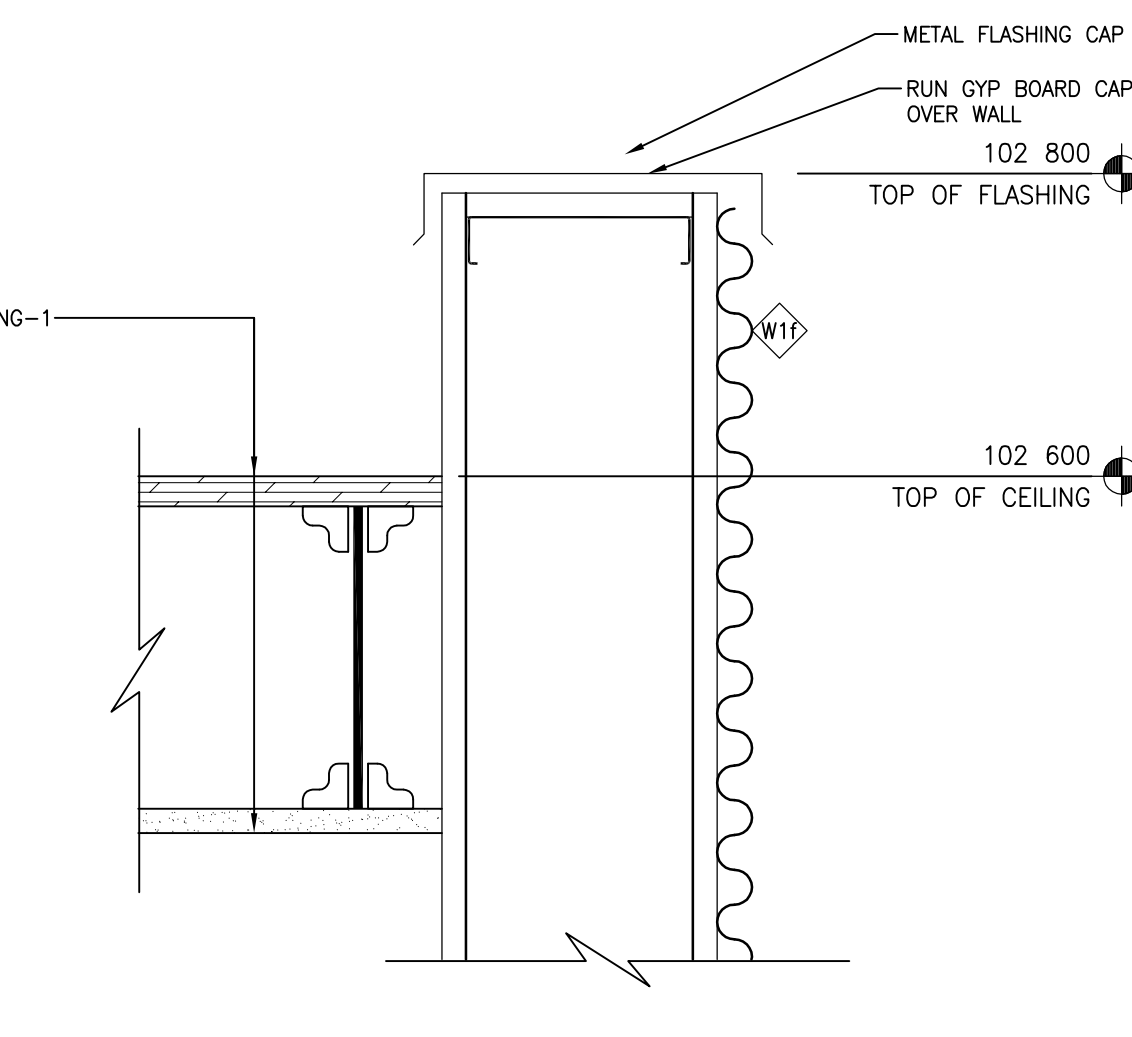
3 INTERIOR ELEVATION
SCALE: 1:100



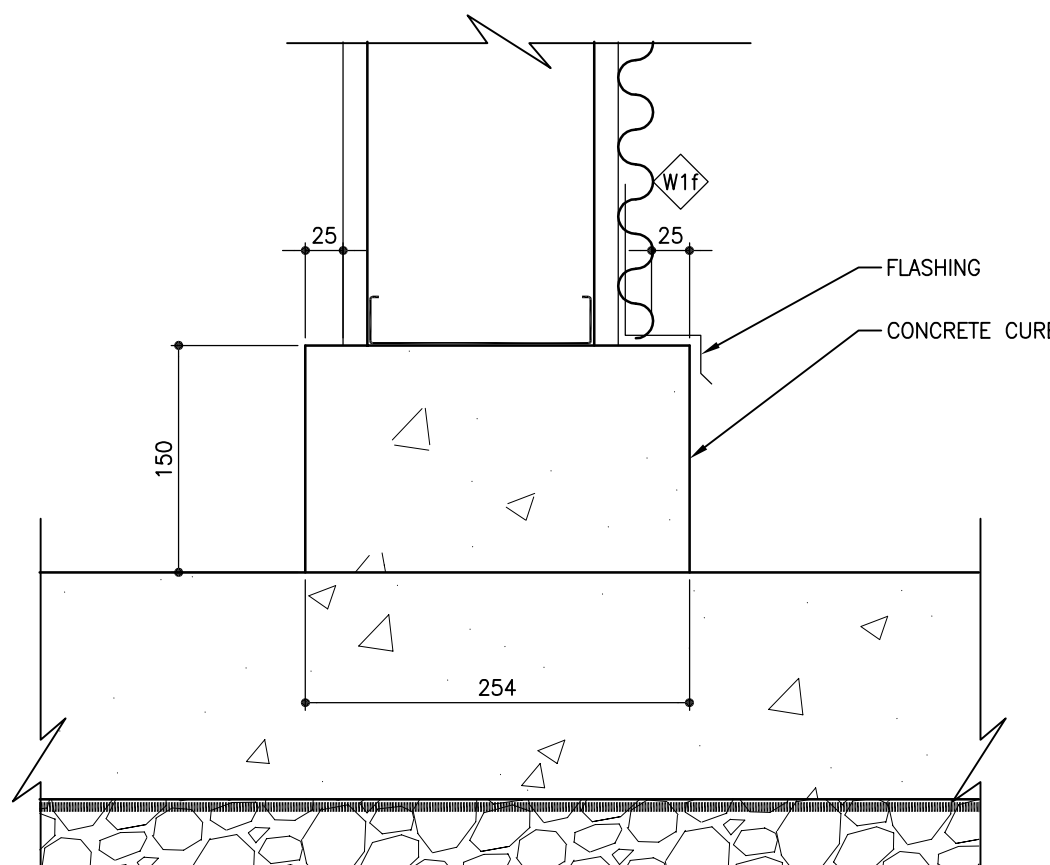
4 WASH BAY CURTAIN ELEVATION
SCALE: 1:50



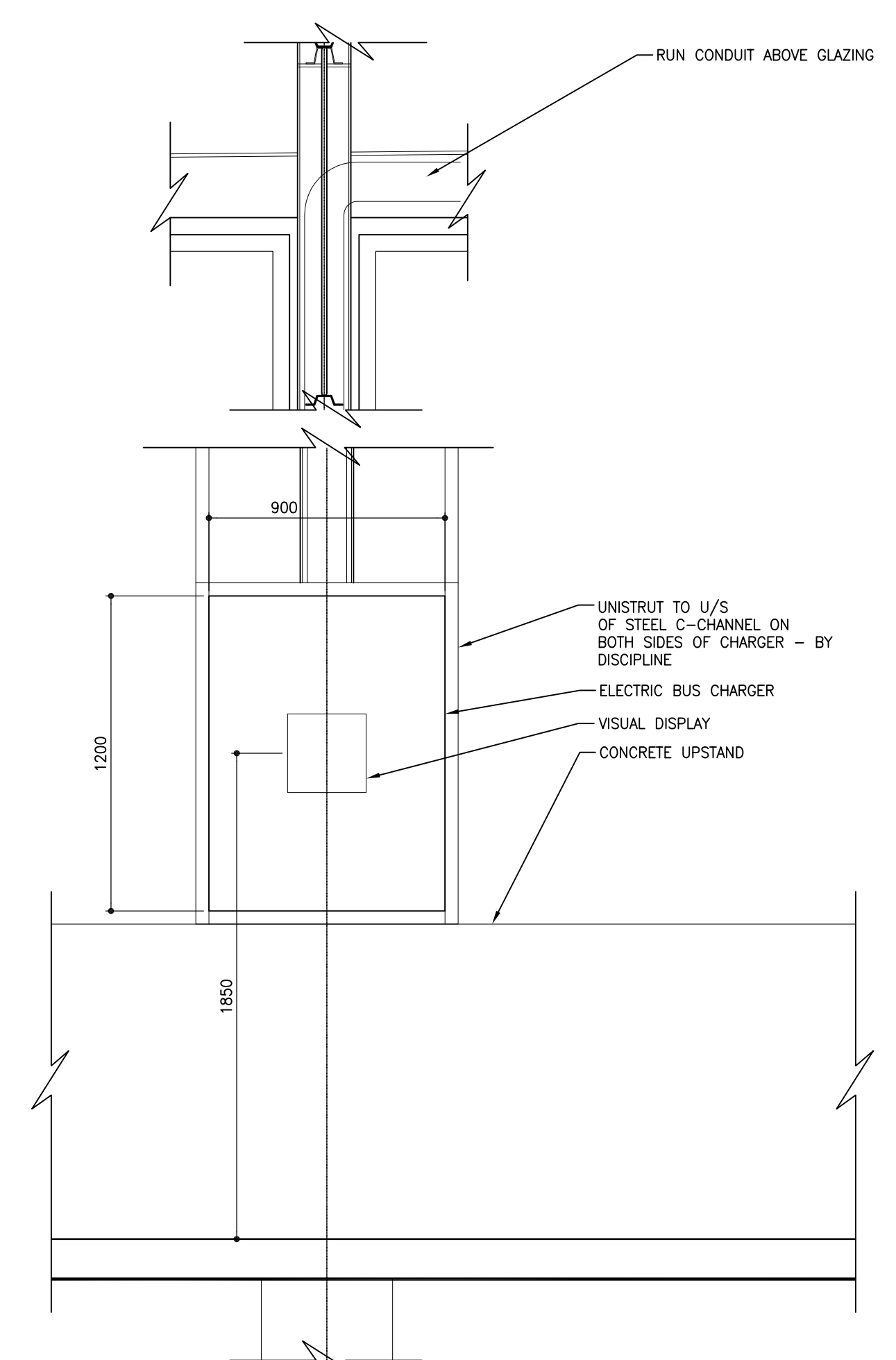
6 SECTION DETAIL - METAL CLADDING TO U/S OF DECK
SCALE: 1:5



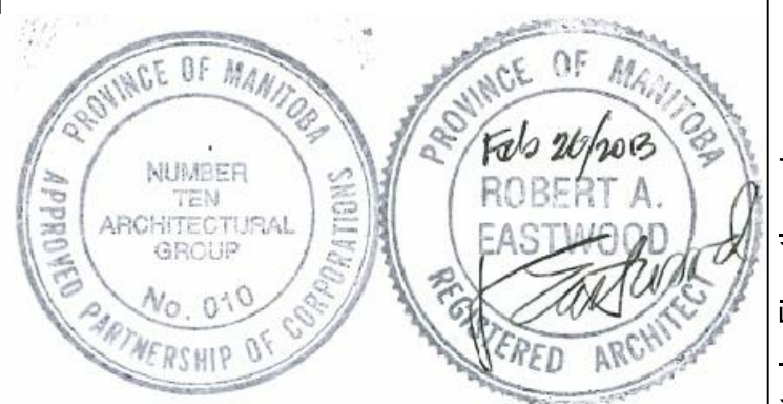
7 SECTION DETAIL - METAL CLADDING AT PARTIAL HEIGHT
SCALE: 1:5



5 SECTION DETAIL - CONCRETE CURB
SCALE: 1:5



8 ELEVATION - ELECTRIC BUS CHARGER
SCALE: 1:20



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TRANSIT BUS PARKING & SERVICE GARAGE

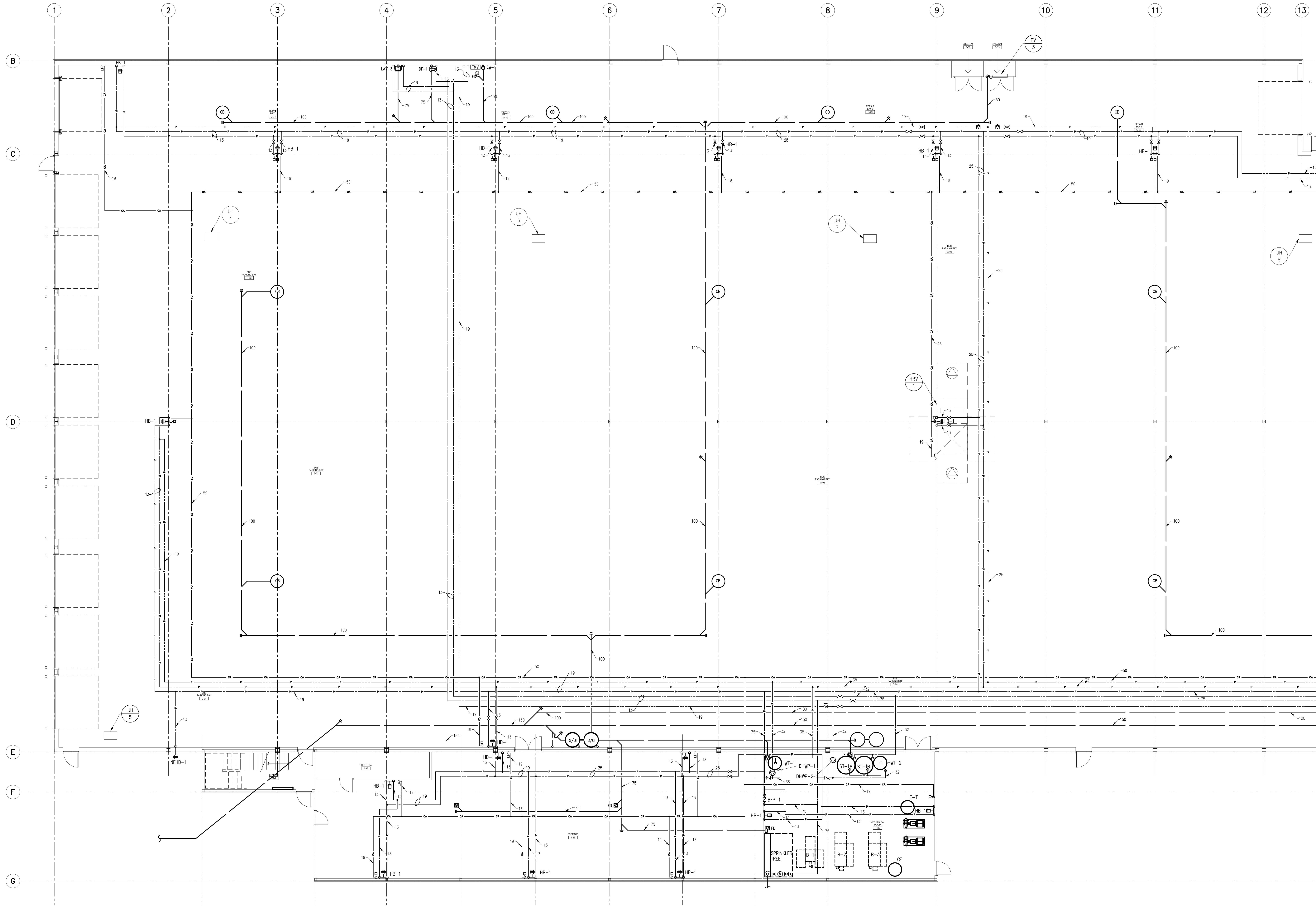
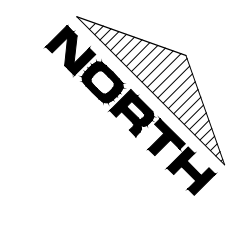
600 Brandon Ave, Winnipeg, Manitoba

INTERIOR ELEVATIONS

Project number	2012021
Date	October 18, 2012
Drawn by	MS, RC
Checked by	KF

Scale AS NOTED **309.2**

P:\2012\2012021 - City of Winnipeg Transit Garage\3.0 Contract Documents\Working Drawings\Current Dwg\309.1-2 - Interior Elevations.dwg

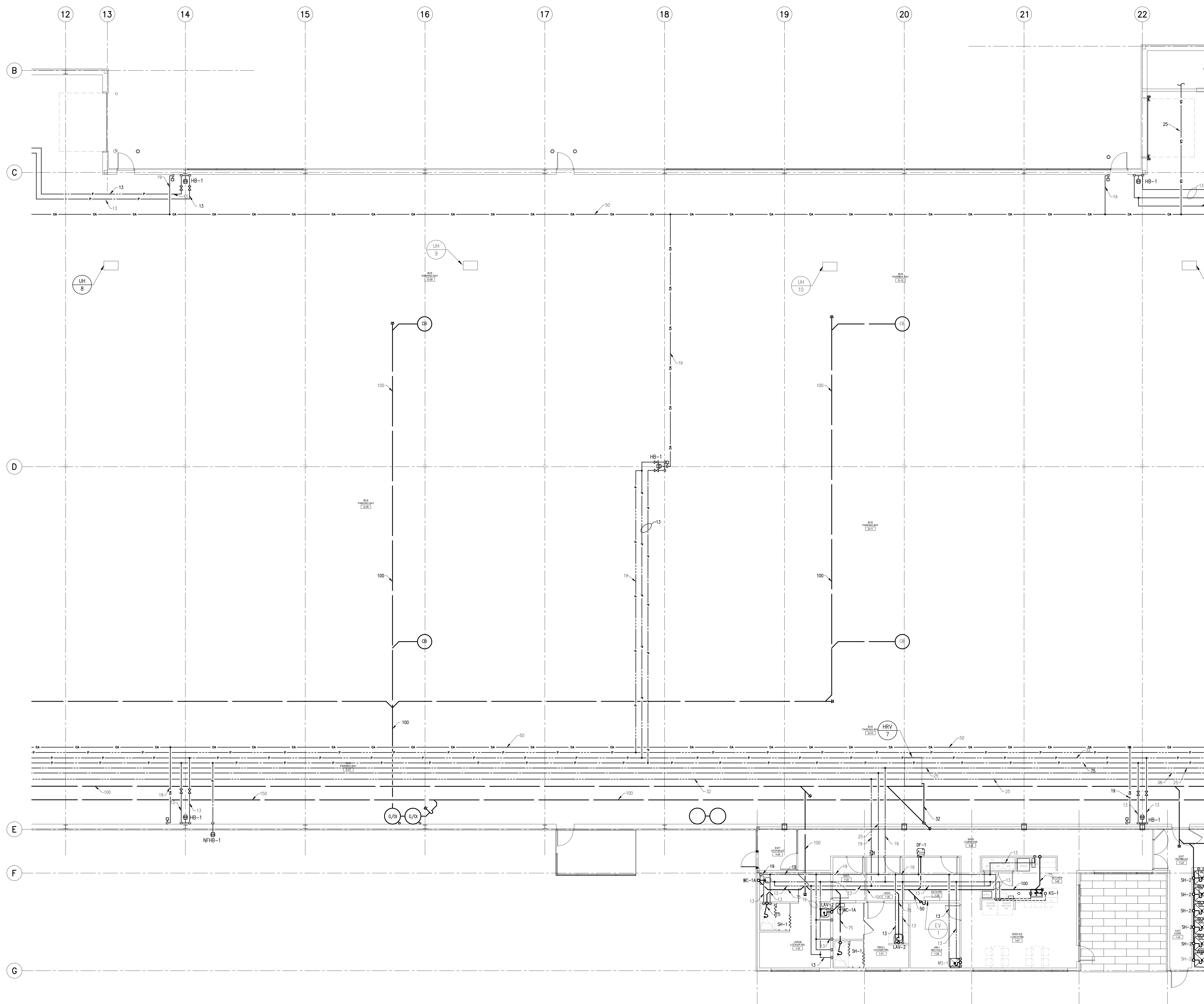
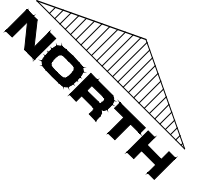


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - PLUMBING

Project number	2012021
Date	Feb. 27, 2013

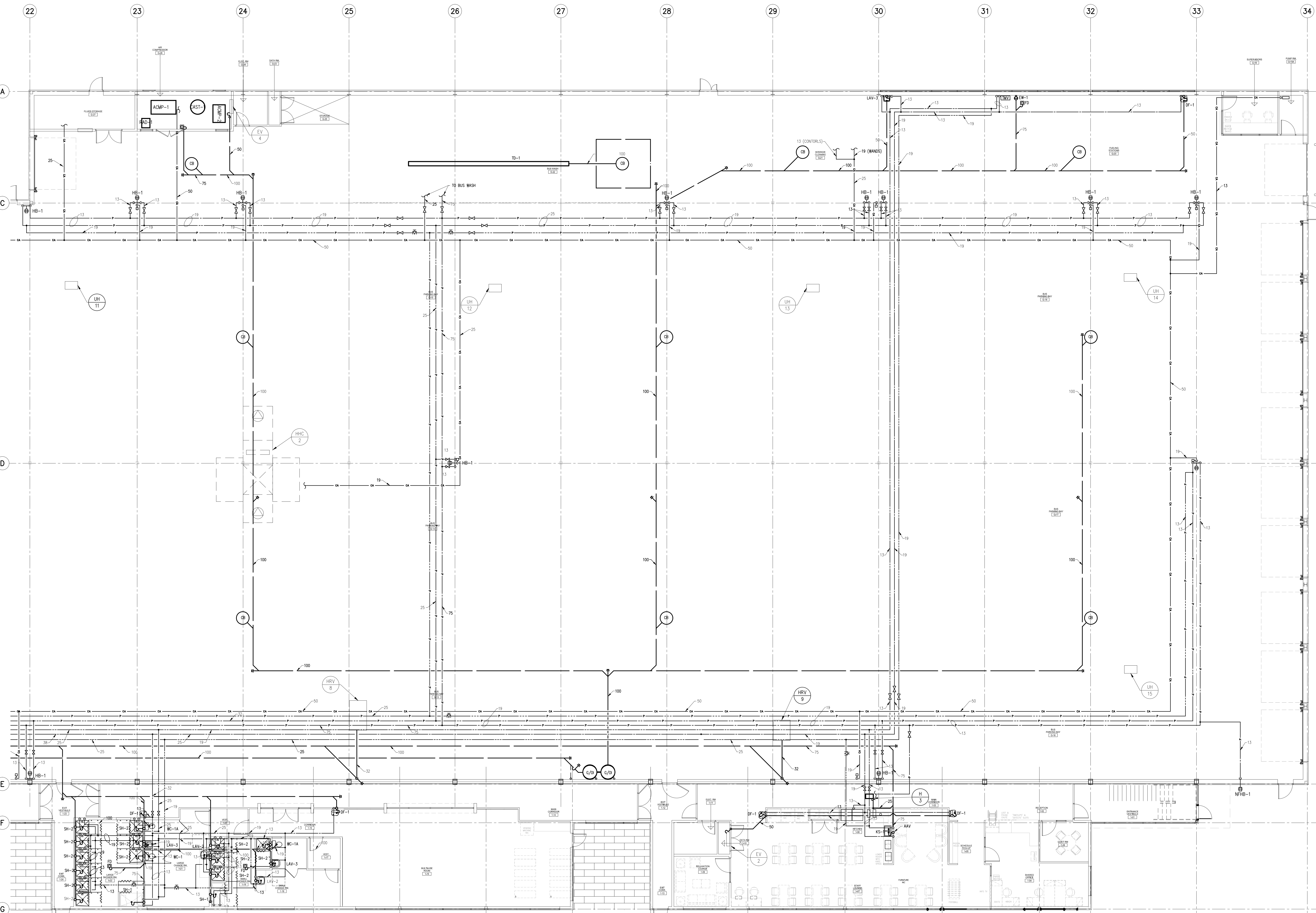
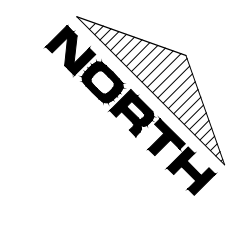


**TRANSIT BUS PARKING
 & SERVICE GARAGE**

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - PLUMBING

Project number	2012021
Date	Feb. 27, 2013

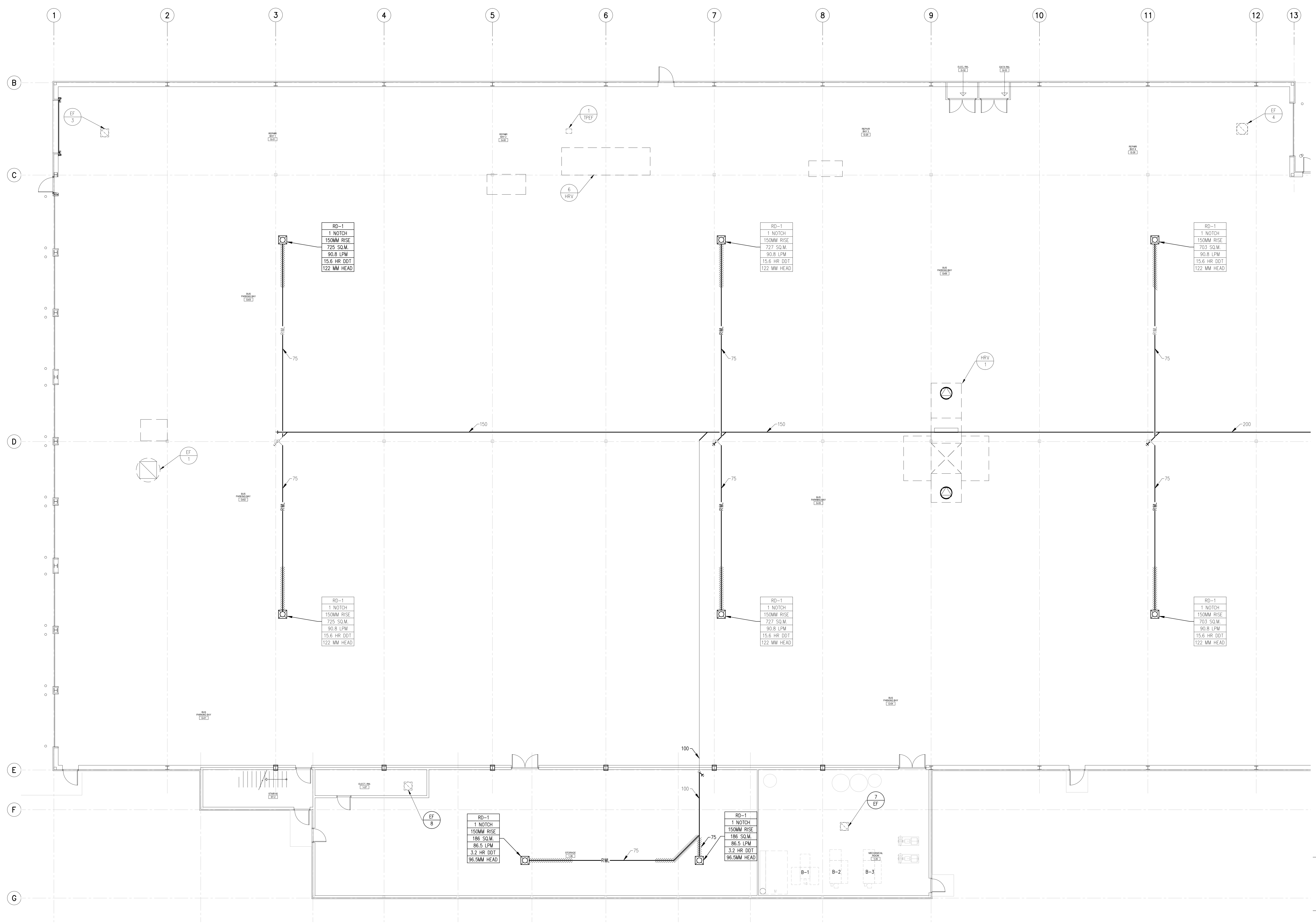
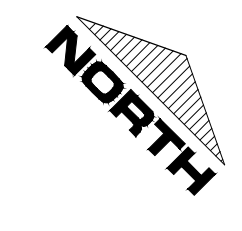


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - PLUMBING

Project number	2012021
Date	Feb. 27, 2013



TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - STORM

Project number	2012021
Date	Feb. 27, 2013

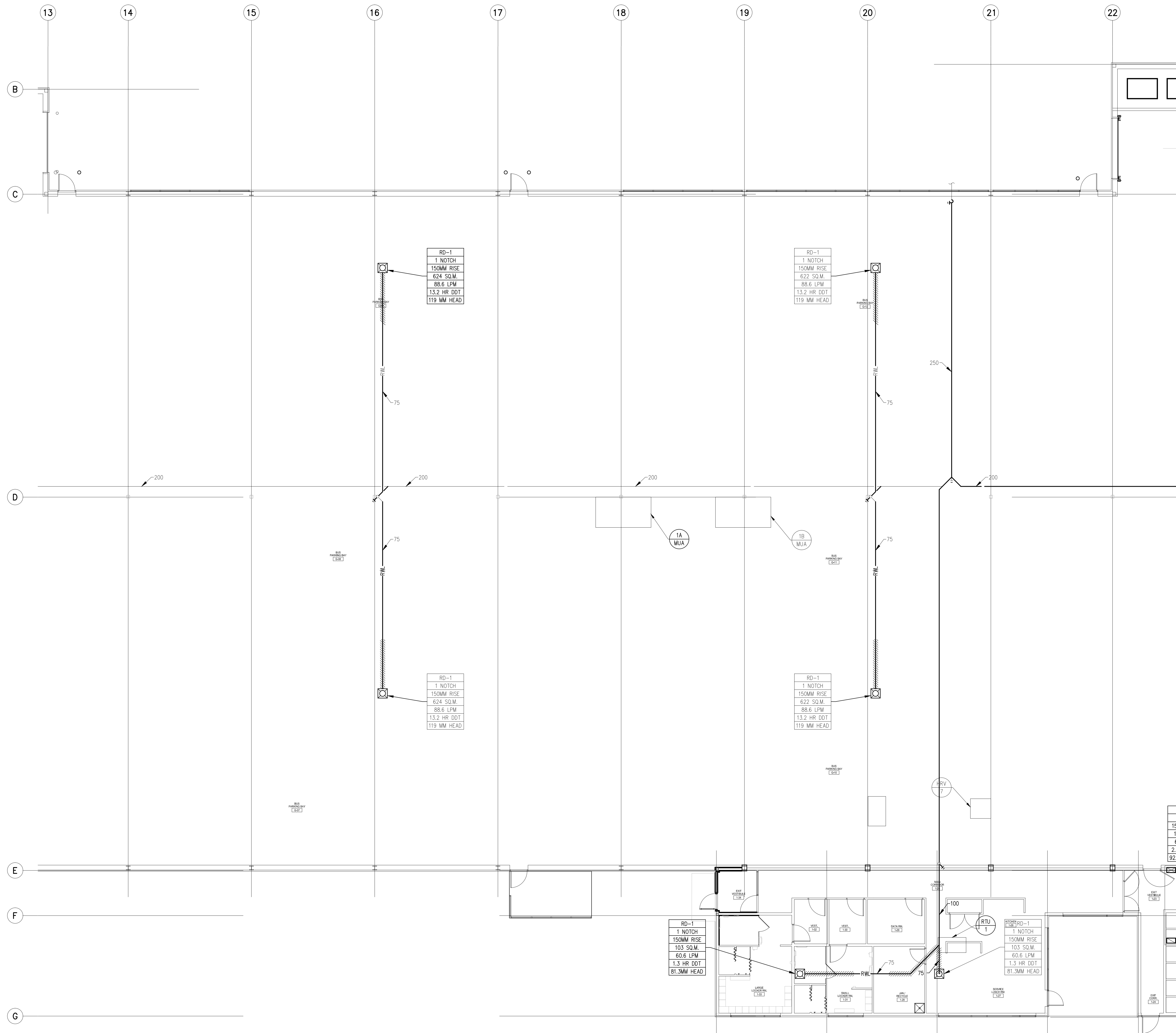
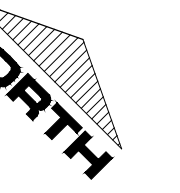
GENERAL NOTES - PLUMBING

RECORD DRAWING
RECORD DRAWINGS ARE BASED ON INFORMATION PROVIDED BY MECHANICAL CONTRACTOR

- MECHANICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, INVERTS, ETC. PRIOR TO COMMENCEMENT OF WORK. VERIFY ALL CONNECTION POINTS ON SITE.
- MECHANICAL CONTRACTOR SHALL ALLOW IN HIS TENDER QUOTATION FOR ALL REQUIRED MODIFICATIONS TO EXISTING SYSTEMS (I.E.) RE-ROUTING OF EXISTING PIPING AS DEEMED NECESSARY DUE TO RENOVATION WORK.
- REFER TO ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWINGS FOR COORDINATION PURPOSES.
- MECHANICAL CONTRACTOR SHALL CAREFULLY REMOVE & RELOCATE EXISTING EQUIPMENT AS PER OWNERS REQUIREMENTS.
- ALL CUTTING & PATCHING OF FLOOR SLABS, WALLS ETC. TO BE PERFORMED BY GENERAL CONTRACTOR.
- ALL VENT PIPING TO BE INSTALLED AS PER CODE.
- ALL DOMESTIC WATER LINES TO BE INSULATED.
- ALL WORK SHALL COMPLY IN EVERY RESPECT WITH ALL NATIONAL, PROVINCIAL AND LOCAL CODES AND BY-LAWS, WHICH SHALL BE CONSIDERED PART OF THE SPECIFICATION. IN THE CASE OF CONFLICTING REQUIREMENTS, BE GOVERNED BY THE MOST STRINGENT REGULATIONS.
- THE MECHANICAL CONTRACTOR SHALL INSTALL PLUMBING SYSTEMS IN COMPLETE ACCORDANCE WITH THE RECOMMENDATIONS OF THE NATIONAL/PROVINCIAL BUILDING CODE, LOCAL PLUMBING CODES, AND MANITOBA DEPT. OF LABOUR REQUIREMENTS.
- ALL INSULATING MATERIALS, METHODS, SIZES AND TYPES OF INSULATION FOR ALL PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE ASHRAE STANDARDS 90.1-2001 "ENERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTIAL BUILDING" AND THERMAL INSULATION ASSOCIATION OF CANADA (TIAC) STANDARDS.
- GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A-53 SCH. 40 WITH 150 LBS. STANDARD BLACK MALLEABLE IRON SCREWED FITTINGS. ALL WORK SHALL COMPLY WITH C.C.A. B149.1-00 "NATURAL GAS AND PROPANE INSTALLATION CODE", COMPLETE WITH DEPARTMENT OF LABOUR GAS NOTICES, AND SHALL BE PERFORMED BY FULLY QUALIFIED GAS FITTERS AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.

REVISION/ISSUED/ PLOTTED DATE 2013-10-04

1. AS-BUILTS

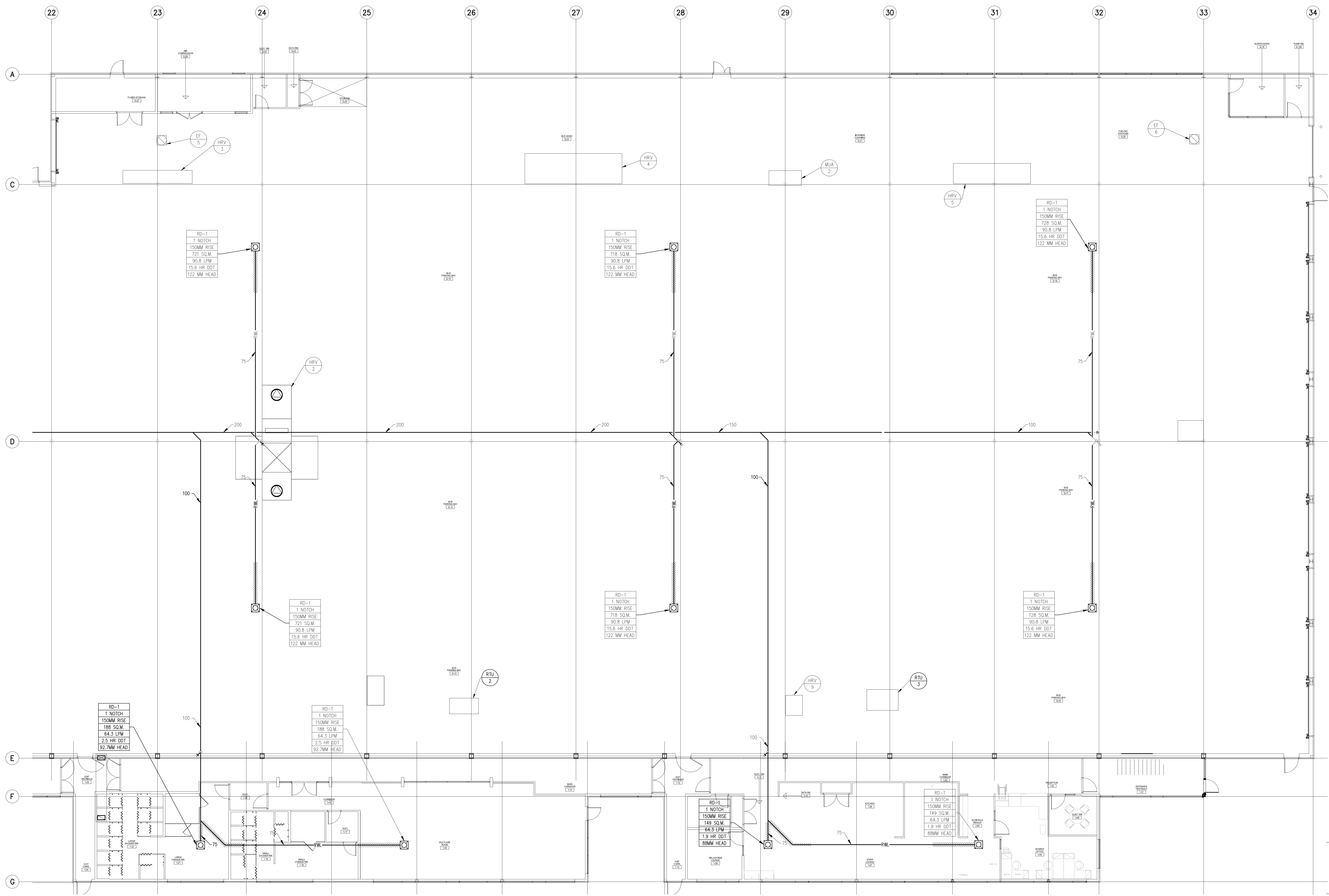
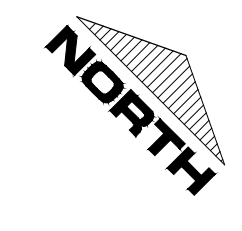


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - STORM

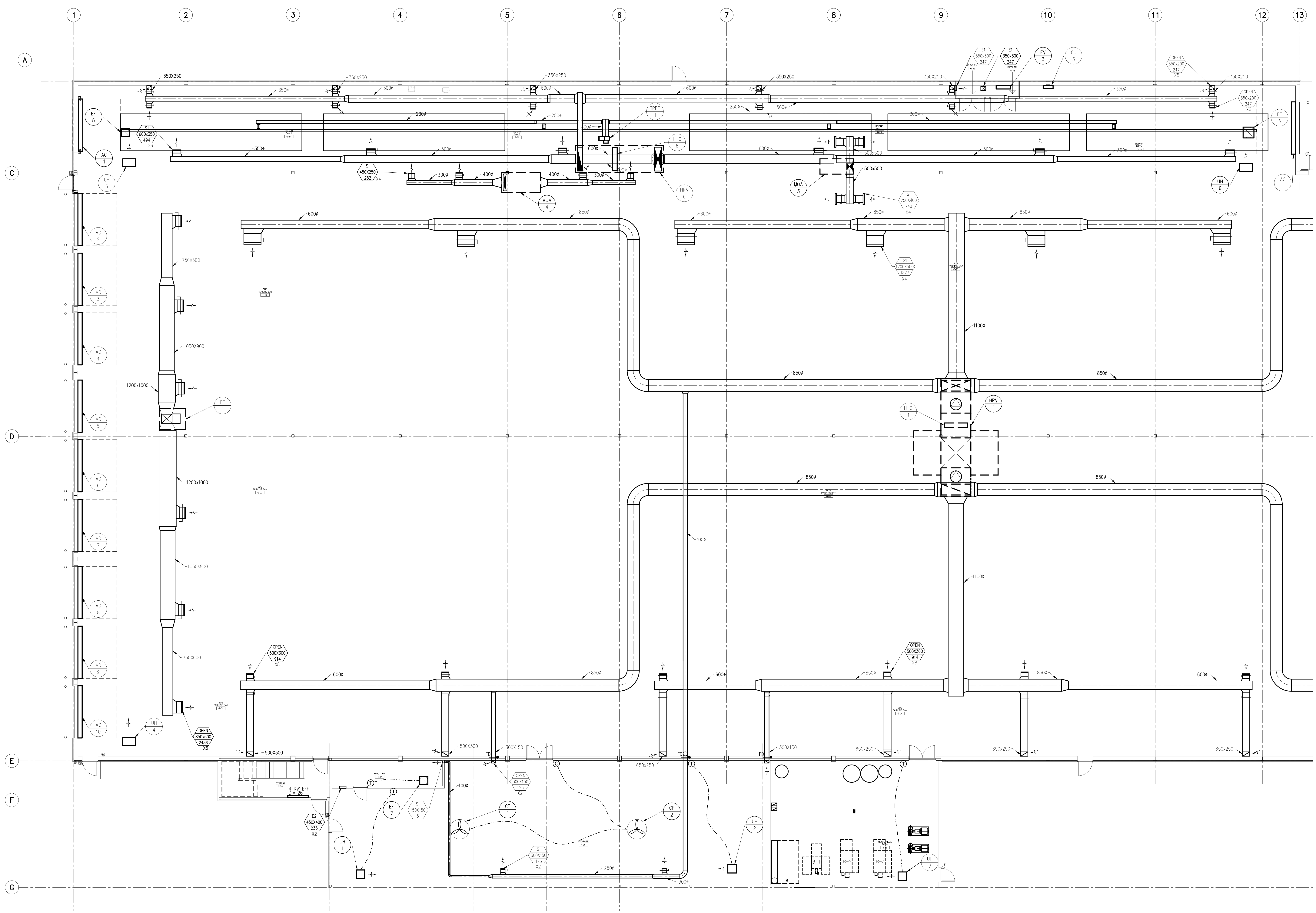
Project number 2012021
Date Feb. 27, 2013



TRANSIT BUS PARKING & SERVICE GARAGE
 600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - STORM

Project number	2012021
Date	Feb. 27, 2013

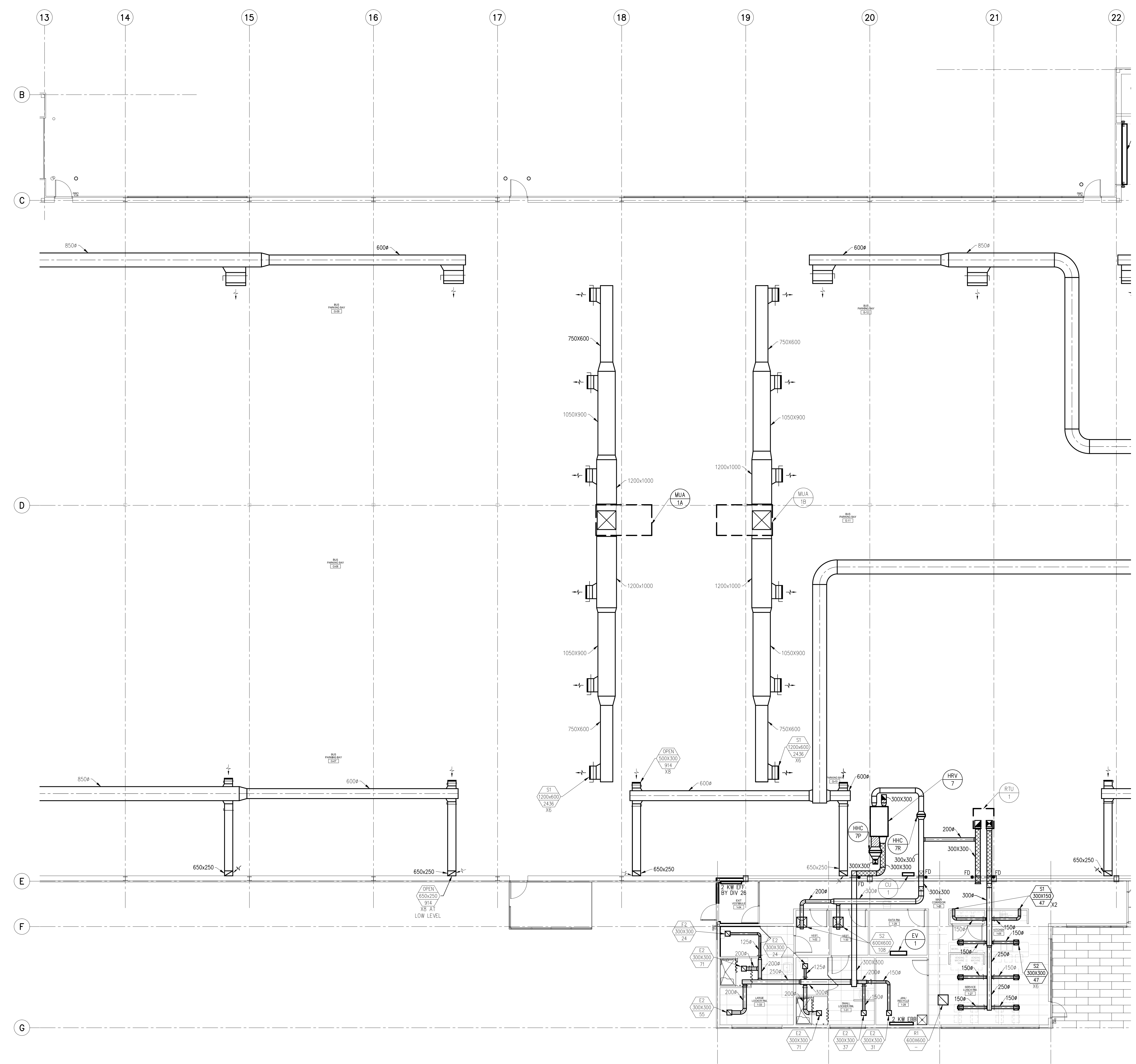
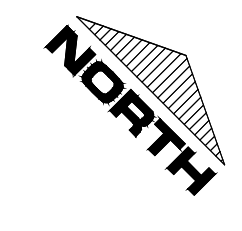


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - H.V.A.C.

Project number	2012021
Date	Feb. 27, 2013

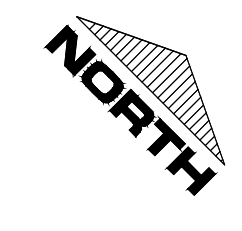
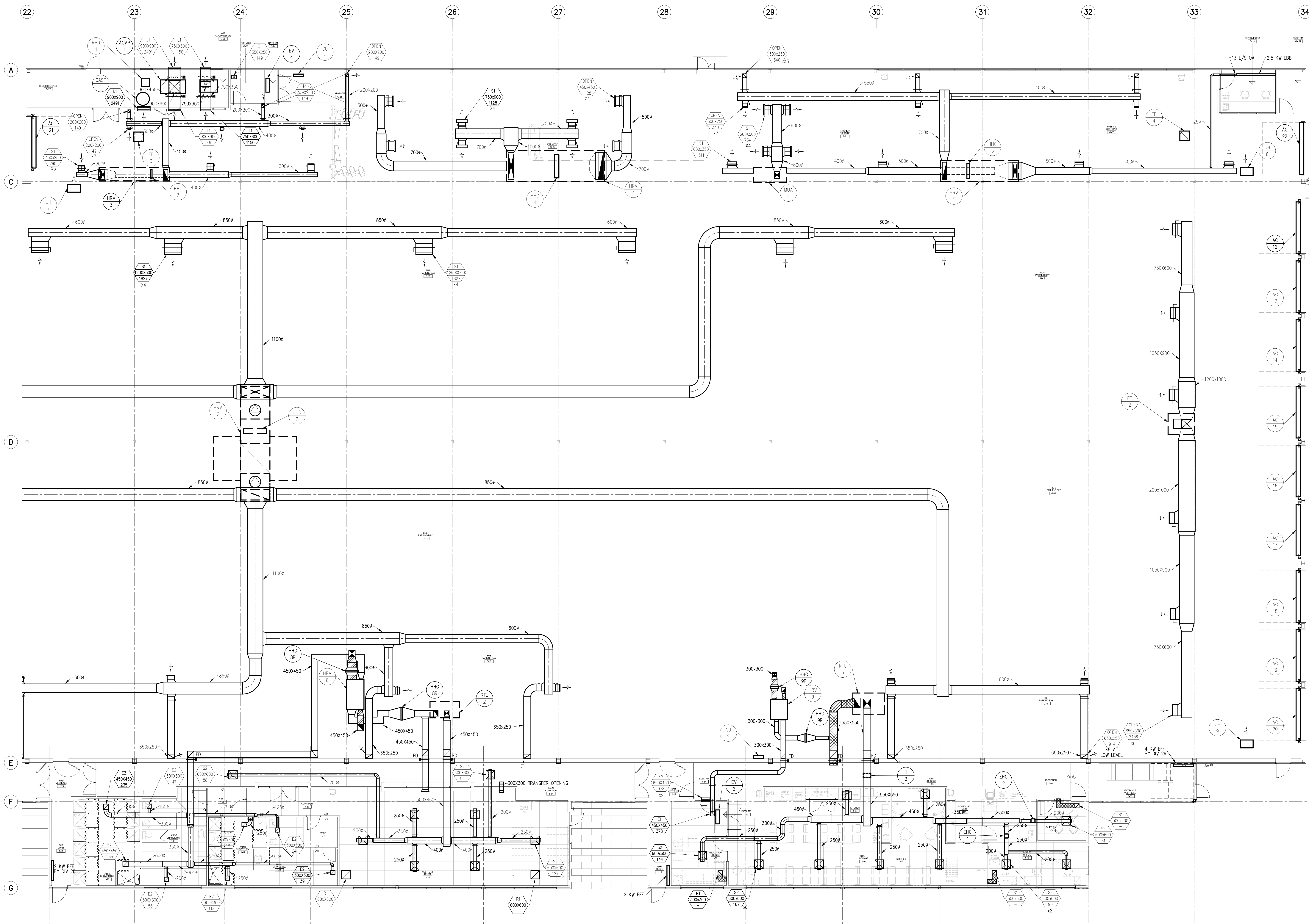


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - H.V.A.C.

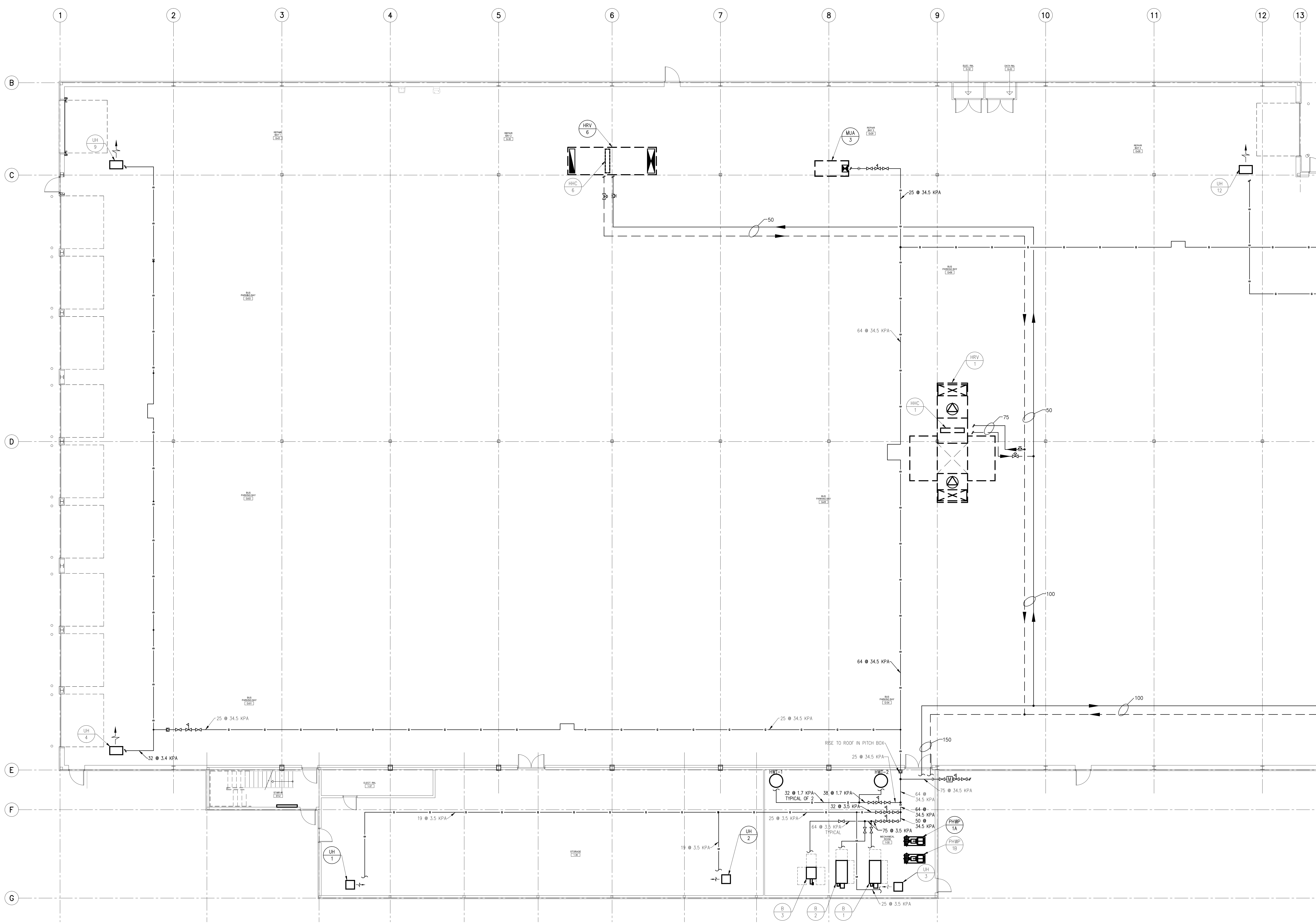
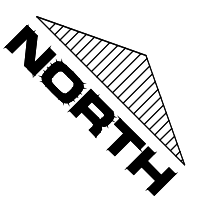
Project number	2012021
Date	Feb. 27, 2013



TRANSIT BUS PARKING & SERVICE GARAGE
 600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - H.V.A.C.

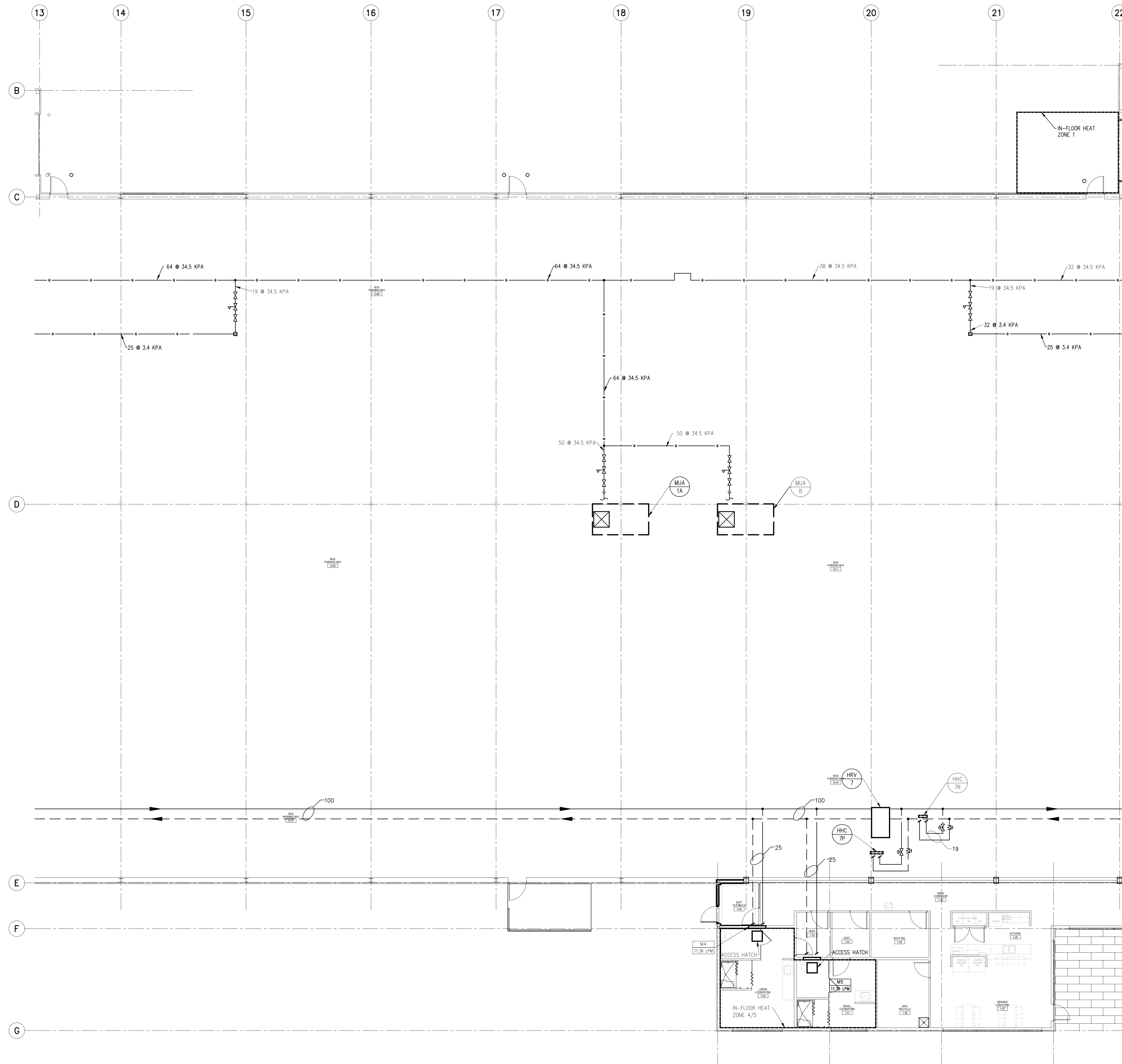
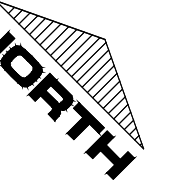
Project number	2012021
Date	Feb. 27, 2013



TRANSIT BUS PARKING & SERVICE GARAGE
 600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - HEATING

Project number	2012021
Date	Feb. 27, 2013

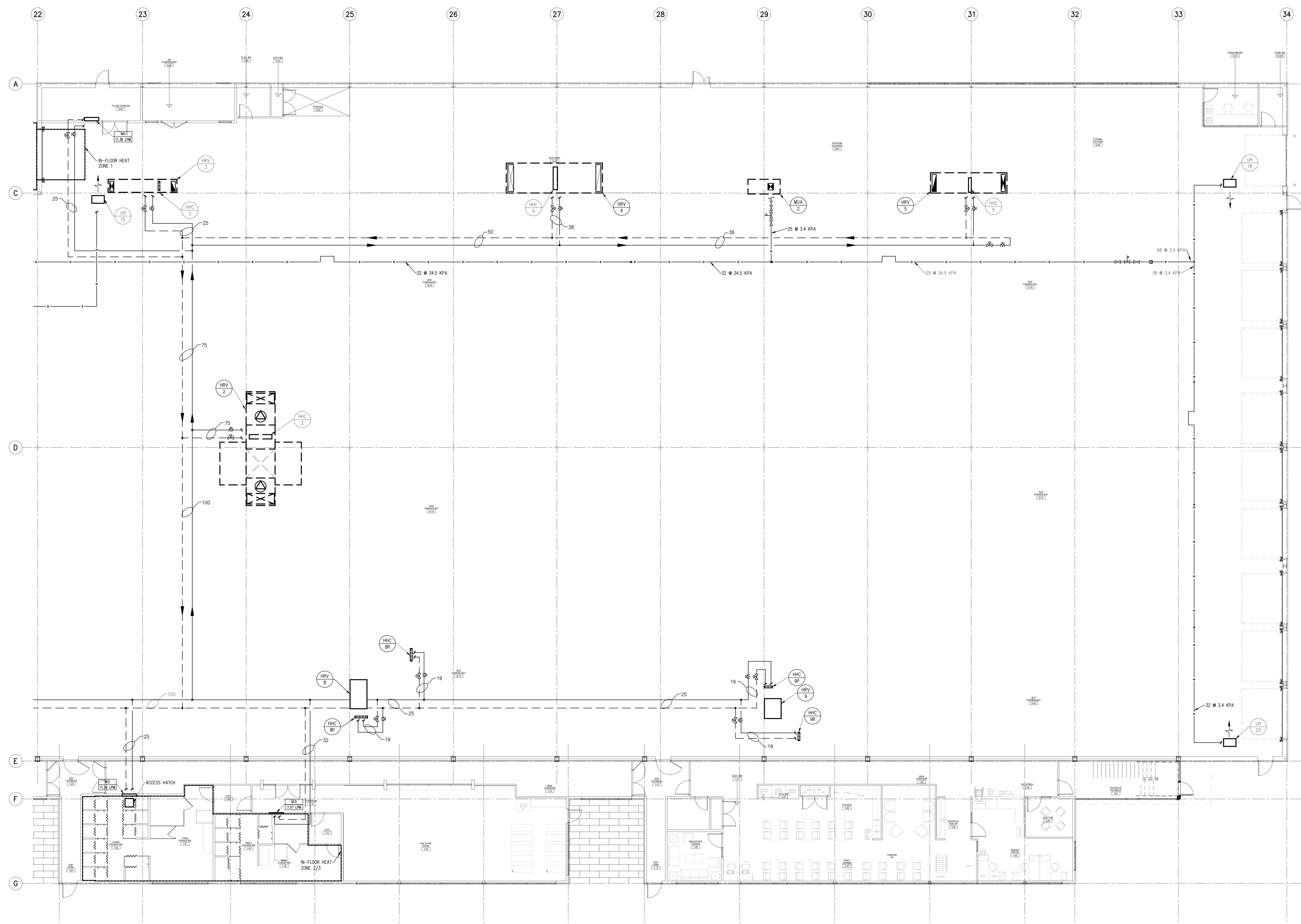
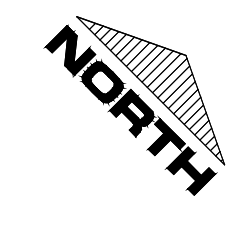


TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - HEATING

Project number	2012021
Date	Feb. 27, 2013



TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - HEATING

Project number	2012021
Date	Feb. 27, 2013

HEAT RECOVERY VENTILATOR (BASED ON TEMPEFF) table with columns: TAG, MODEL NUMBER, SUPPLY AIR [L/S], S/A FAN, E.S.P. [PA], MOTOR [KW], EXHAUST AIR [L/S], E/A FAN, E.S.P. [PA], MOTOR [KW], WINTER DESIGN OUTDOOR TEMP [°C], WINTER S/A TEMP FROM UNIT [°C], WEIGHT [KG], COMMENT.

GRILLES, REGISTERS AND DIFFUSERS (BASED ON E.H. PRICE) table with columns: TAG, MODEL.

HEAT RECOVERY VENTILATOR (BASED ON VENMAR) table with columns: TAG, MODEL NUMBER, SUPPLY AIR [L/S], E.S.P. [PA], MOTOR [W], EXHAUST AIR [L/S], E.S.P. [PA], MOTOR [KW], WINTER EAT [°C], WINTER S/A [°C], WEIGHT [KG], COMMENT.

TAILPIPE EXHAUST SYSTEM (BASED ON NEDERMAN)

Table with columns: EQUIPMENT, TAG, MODEL NUMBER, FLOW [L/S], ESP [PA], COMMENT.

Table with columns: EQUIPMENT, MODEL NUMBER, COMMENT.

AIR CURTAINS (BASED ON TMI)

Table with columns: TAG, MODEL, NUMBER MOTORS, MOTOR POWER [HP], NOZZLE VEL [M/S], FLOW [L/S], WEIGHT [KG].

CEILING FANS (BASED ON CANARM)

Table with columns: TAG, MODEL, AIR VELOCITY [M/S], AIR VOLUME [L/S], ROD LENGTH [MM], WEIGHT [KG], COMMENT.

UNIT HEATER (BASED ON REZNOR)

Table with columns: TAG, MODEL NUMBER, HEAT INPUT [KW], HEAT OUT [KW], VENT [MM], COMB AIR [MM], AIR FLOW [L/S], WEIGHT [KG].

AIR COMPRESSOR (BASED ON ATLAS COPCO)

Table with columns: TAG, MODEL, CAPACITY [L/S], PRESSURE [KPA], COOLING AIR [L/S], CONNECTION [MM], DBA RATING, WEIGHT [KG].

COMPRESSED AIR STORAGE TANK (BASED ON ATLAS COPCO)

Table with columns: TAG, CAPACITY [L], WEIGHT [KG], PRESSURE [KPA], ACCESSORIES.

REFRIGERATED AIR DRYER (BASED ON PNEUMATECH)

Table with columns: TAG, CAPACITY [M³/HR], PRESS DROP [KPA], PRESSURE [KPA], ACCESSORIES.

MAKE UP AIR (BASED ON ENGINEERED AIR)

Table with columns: TAG, SYSTEM, MODEL, FLOW [L/S], HEATING INPUT [KW], HEATING OUTPUT [KW], E.S.P. [KPA], MOTOR [KW], WEIGHT [KG], REMARK.

HYDRONIC HEATING COIL (BASED ON COILMASTER)

Table with columns: TAG, MODEL, CAPACITY [KW], AIR VOLUME [L/S], PRESS DROP [PA], LAT [°C], FLUID, FLUID FLOW [LPM], PRESS DROP [KPA], LFT [°C].

ELECTRIC HUMIDIFIER (BASED ON NORTEC)

Table with columns: TAG, MODEL, POWER [KW], CAPACITY [KG/HR], DRAIN CONN [MM], WEIGHT [KG], ACCESSORIES.

CONDENSING BOILER (BASED ON PATTERSON-KELLEY)

Table with columns: TAG, MODEL, MAX INPUT [KW], MAX OUTPUT [KW], THERM EFF, VENT [MM], FLOW [LPM], DP WATER [KPA], WATER CAPACITY [L], WEIGHT [KG].

ROOF TOP UNITS (BASED ON YORK)

Table with columns: TAG, MODEL NUMBER, NOMINAL TONNAGE, TOTAL CAP [KW], SENSIBLE CAP [KW], SUPPLY AIR [L/S], E.S.P. [PA], BLOWER MOTOR [KW], OUTSIDE AIR [L/S], REFRIGERANT, HEAT INPUT [KW], HEAT OUTPUT [KW], WEIGHT [KG].

C/W ROOF CURB, 100% MODULATING ECONOMIZER, 2" PLEATED MERV 11 FILTER, NIGHT SET BACK MODE, RETURN AIR TEMPERATURE LIMIT CONTROL, WARM-UP MODE DELAY, MODULATING OUTSIDE AIR.

FANS (BASED ON LOREN COOK)

Table with columns: TAG, SYSTEM, TYPE, PRODUCT LINE, MODEL NUMBER, DRIVE, FLOW [L/S], E.S.P. [PA], POWER [KW], MOUNTING, WEIGHT [KG], COMMENT.

PUMPS

Table with columns: TAG, FUNCTION, MANUFACTURER, MODEL, FLOW [LPM], HEAD [KPA], POWER [KW], COMMENTS.

SPLIT DUCTLESS AIR CONDITIONER - SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR

Table with columns: TAG, MANUFACTURER, TYPE, MODEL, CAPACITY, WEIGHT, AIR FLOW (LOW-HIGH), PIPE SIZE (LIQUID X GAS).

GAS FIRED HOT WATER TANK (BASED ON BRADFORD WHITE)

Table with columns: TAG, SERVICE, MODEL, VENT, CAPACITY [L], INPUT [KW], RECOVERY @ 66°C [LPM].

MANIFOLDS (BASED ON REHAU)

Table with columns: TAG, MODEL, OUTLETS, LENGTH CM, TOTAL DEPTH CM, TOTAL HEIGHT CM.

ELECTRIC HEATING COIL

Table with columns: TAG, CAPACITY [W], AIR VOLUME [L/S], MIN VEL [M/S].



REVIEW/ISSUED/PLOTTED: 1. AS-BUILTS DATE: 2013-10-04

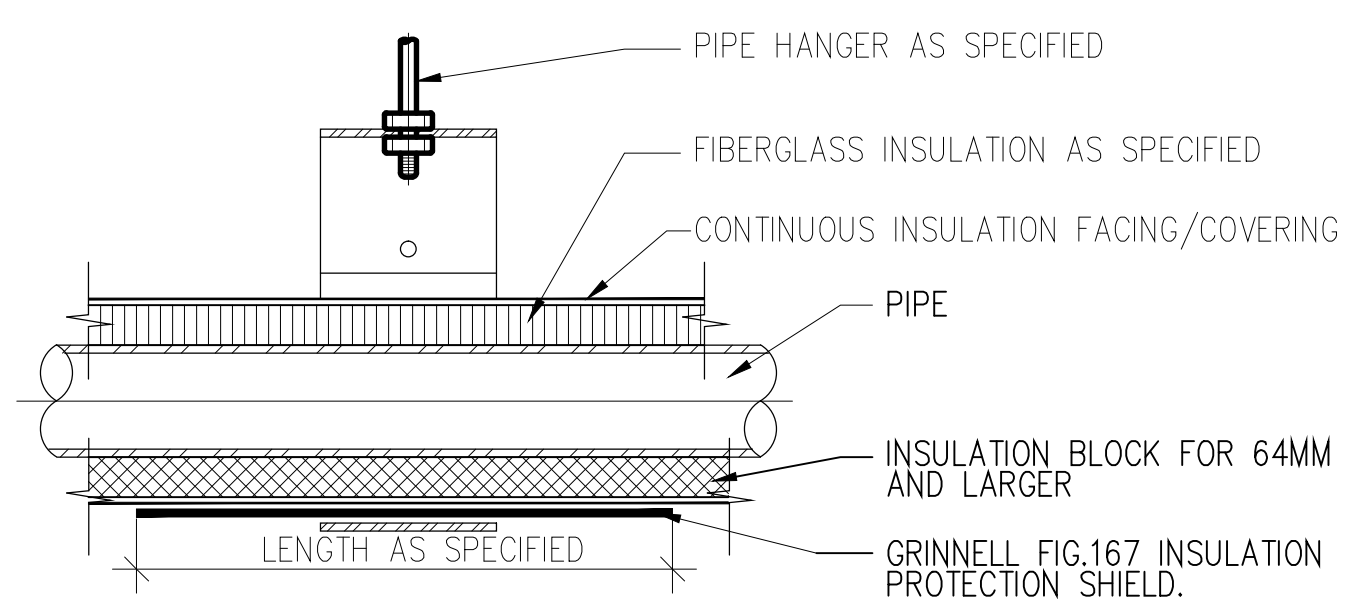
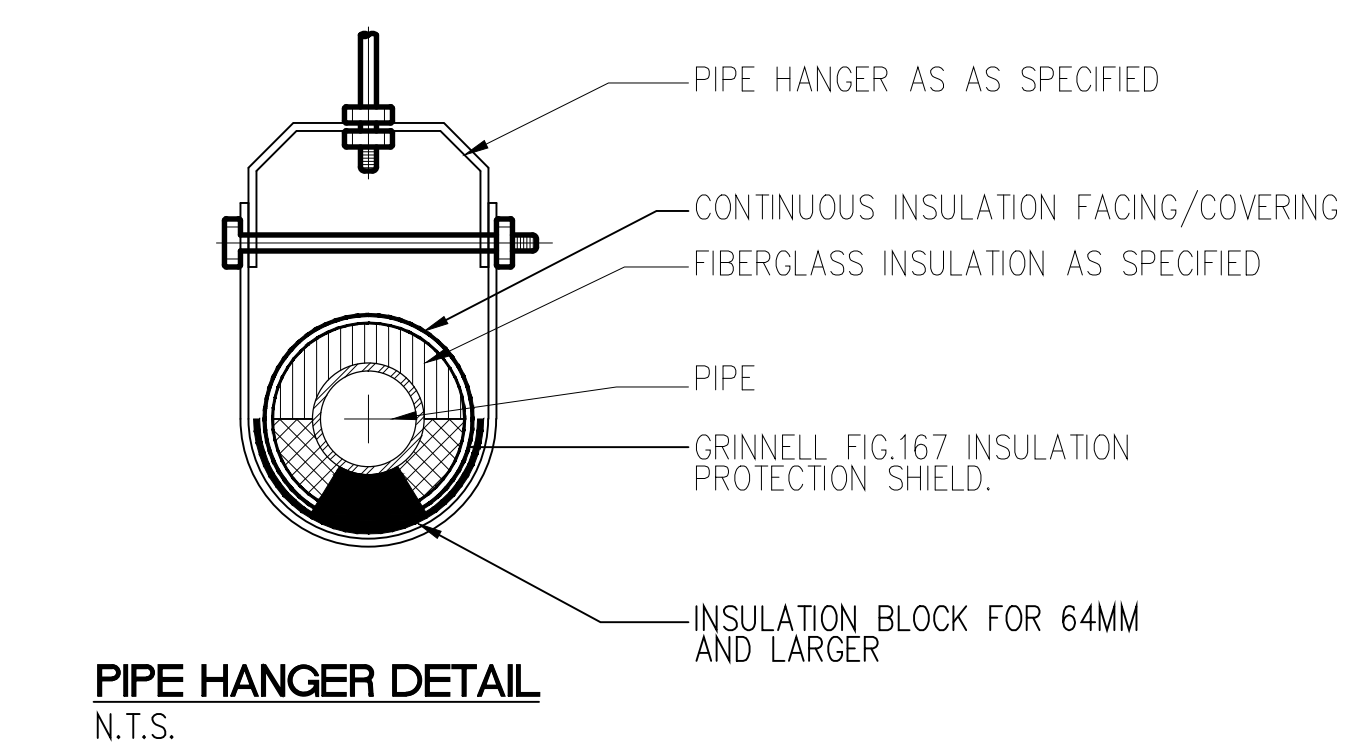
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

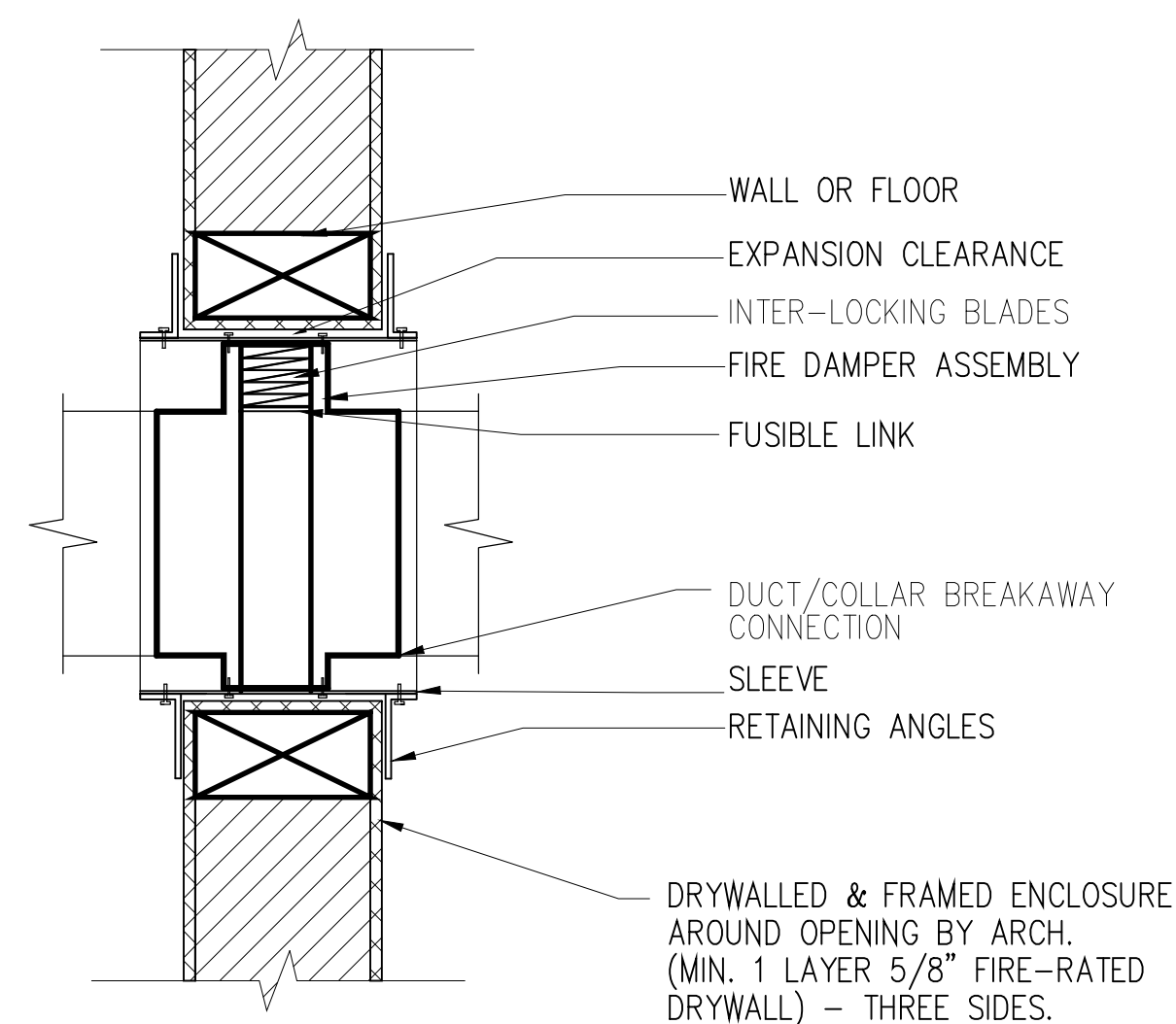
MECHANICAL - SCHEDULES

Project number: 2012021 Date: Feb. 27, 2013

PLUMBING FIXTURE SCHEDULE				
TAG	TYPE	MANUFACTURER/MODEL/DESCRIPTION	TRIM	ACCESSORIES
WC-1	PUBLIC WATER CLOSET	CONTRAC "CATO" MODEL #5730BEVJ UNLINED TANK, HIGH EFFICIENCY, 3.8LPF (1 GPF), ELONGATED BOWL, VITREOUS CHINA, 305MM (12") ROUGH IN.	SOFT WHITE VITREOUS CHINA CLOSET TANK.	BEMIS COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT, MODEL #1955CT/1955SCT, OPEN FRONT-LESS COVER, MOLDED-IN BUMPERS, CHECK HINGES WITH 300 SERIES STAINLESS STEEL POSTS AND PINTELES, STA-TITE COMMERCIAL FASTENING SYSTEM.
WC-1(A) (BARRIER FREE)	PUBLIC WATER CLOSET	CONTRAC "CASE" MODEL 5720B0VJ UNLINED TANK, HIGH EFFICIENCY, 3.8LPF (1 GPF), ELONGATED BOWL, VITREOUS CHINA, 305MM (12") ROUGH IN.	SOFT WHITE VITREOUS CHINA CLOSET TANK.	BEMIS COMMERCIAL HOSPITALITY HEAVY-DUTY PLASTIC TOILET SEAT, MODEL #7850TDG, OPEN FRONT WITH COVER, MOLDED-IN BUMPERS, CHECK HINGES WITH 300 SERIES STAINLESS STEEL POSTS AND PINTELES, STA-TITE COMMERCIAL FASTENING SYSTEM.
LAV-1	WASHROOM LAVATORY	KINDRED COMMERCIAL MODEL #V1821/6 VANITY BASIN, 18 GAUGE, SELF RIMMING, 1/4" WASTE ASSEMBLY, OVERFLOW DV1821/6/3, 3 HOLE 1 1/4" DIAMETER, 4" CENTERSET.	MIRROR FINISHED RIM.	DELTA TECK COMMERCIAL METERING HANDWASH FAUCET MODEL #877151 WITH CENTER FAUCET HOLE, TWO HOLD-DOWN SHANKS, WITH LEVER HANDLE #877111, HEAVY DUTY CAST BRASS SINGLE HOLE MOUNT FAUCETS, POLISHED CHROME PLATE FINISH, DELTA TECK COMMERCIAL CAST LAVATORY WASTES MODEL #337260 32 MM (1 1/4") SIZE P.O. FLUG. DELTA TECK COMMERCIAL CAST "P" TRAP MODEL #337311 32MM (1 1/4") SIZE.
LAV-2	WASHROOM LAVATORY	KOHLER "KELSTON" MODEL #K-2381-4 COUNTERTOP BATHROOM SINK, 4" CENTERS BATHROOM SINK, VITREOUS CHINA, DROP-IN, WITH OVERFLOW.	SOFT WHITE VITREOUS CHINA.	DELTA TECK COMMERCIAL METERING HANDWASH FAUCET MODEL #877151 WITH CENTER FAUCET HOLE, TWO HOLD-DOWN SHANKS, WITH LEVER HANDLE #877111, HEAVY DUTY CAST BRASS SINGLE HOLE MOUNT FAUCETS, POLISHED CHROME PLATE FINISH, DELTA TECK COMMERCIAL CAST LAVATORY WASTES MODEL #337260 32 MM (1 1/4") SIZE P.O. FLUG. DELTA TECK COMMERCIAL CAST "P" TRAP MODEL #337311 32MM (1 1/4") SIZE.
LAV-3	WASHROOM LAVATORY	CONTRAC "CHELSEA" MODEL #4640BHW SINGLE HOLE 4" CENTER WALL MOUNT SINK, VITREOUS CHINA FRONT OVERFLOW HOLE.	SOFT WHITE VITREOUS CHINA.	DELTA TECK COMMERCIAL METERING HANDWASH FAUCET MODEL #877151 WITH CENTER FAUCET HOLE, TWO HOLD-DOWN SHANKS, WITH LEVER HANDLE #877111, HEAVY DUTY CAST BRASS SINGLE HOLE MOUNT FAUCETS, POLISHED CHROME PLATE FINISH, DELTA TECK COMMERCIAL CAST LAVATORY WASTES MODEL #337260 32 MM (1 1/4") SIZE P.O. FLUG. DELTA TECK COMMERCIAL CAST "P" TRAP MODEL #337311 32MM (1 1/4") SIZE.
SK-1	MULTI COMPARTMENT KITCHEN SINK	KINDRED COMMERCIAL DOUBLE SINK MODEL #ALB06405P-1/3, 3 HOLE, 4" CENTERS, 8" CENTERSET, 18 GAUGE, SELF RIMMING WITH FAUCET LEDGE.	SATIN FINISH.	DELTA KITCHEN FAUCET MODEL #135-WTP 3 HOLE SINK APPLICATION, SOLID BRASS BODY, 9" LONG SPOUTS, LEVER HANDLE, DELTA TECK COMMERCIAL CAST "P" TRAP MODEL #337360 38MM (1 1/2") SIZE.
SK-2	SINGLE COMPARTMENT KITCHEN SINK	KINDRED COMMERCIAL SINGLE SINK MODEL #ALB06405P-1/3 WITH FAUCET LEDGE, SELF RIMMING, 3 HOLE 1 1/2" DIAMETER, 4" CENTERS	18-10 STAINLESS STEEL.	DELTA KITCHEN FAUCET MODEL #27C4933 3 HOLE SINK APPLICATION, SOLID BRASS BODY, 6" HEAVY DUTY SPOUT, FLOW CONTROL AERATOR OUTLET AND 5" LEVER BLADE HANDLES, DELTA TECK COMMERCIAL CAST "P" TRAP MODEL #337360 38MM (1 1/2") SIZE.
MS-1	MOP SINK	FIAT MOP SINK MODEL #MSB-2424, HEAVY GAUGE STAINLESS STEEL.	STAINLESS STEEL.	FIAT PRODUCTS SERVICE SINK FAUCET MODEL #830-AA, CHROME PLATED VACUUM BREAKER, INTEGRAL STOPS, 3/4" HOSE THREAT ON SPOUT, FOUR ARM HANDLES, DELTA SINK FAUCET WALLMOUNT MODEL #281910 STAINLESS STEEL MOP HANGER, DELTA SINK FAUCET WALLMOUNT MODEL #281911 SINK FAUCET WALLMOUNT HEAVY DUTY LONG REINFORCED HOSE BRASS COUPLING.
DF-1	WATER FOUNTAIN	ELKAY "EZ-H2O SYSTEM" COOLER/BOTTLE FILLING STATION MODEL #LZBWS, SENSOR ACTIVATED, GALLON FILTER, LAMINAR FLOW.	-	-
SH-1	ONE PIECE SHOWER	FIAT PRODUCTS INSTITUTIONAL MODEL #A6637.01R08 SERIES, HIGH GLOSS ACRYLIC WITH FIBERGLASS REINFORCEMENT, RIGHT STAINLESS STEEL CORNER GRAB BAR, 1" STAINLESS STEEL 18 GA. SHOWER CURTAIN ROD.	HIGH GLOSS ACRYLIC.	DELTA TECK COMMERCIAL MULTICHOICE UNIVERSAL PRESSURE BALANCE TUB AND SHOWER, MODEL R10000-UNWS VALVE, MODEL T13H153 FINISH TRIM, 610MM HANDSHOWER, 5/5 BAR WITH ADA SLIDE, 57MM LEVER BLADE HANDLE.
SH-2	THREE PIECE SHOWER	FIAT PRODUCTS MODEL #MS-3600 THREE PIECE SHOWER, 965MM X 838MM X 2184MM (38"x33"x86").	STANDARD WHITE.	DELTA TUB AND SHOWER FAUCET TRIM, MODEL T13020-CDN PRESSURE BALANCED MIXING VALVE, SOLID BRASS BODY, DELTA MULTICHOICE UNIVERSAL ROUGH BODY MODEL #R10000-UN, SHOWER HEAD MODEL #83000A, HEAD ARM AND FLANGE, CHROME PLATED SHOWER ARM, POLISHED CHROME SHALLOW FLANGE.
HB-1	WALL MOUNTED HOSE BIBB	WATTS INDUSTRIES CANADA INC POWERS SINGLE SINK FITTING WALL MOUNT HOSE BIBB MODEL #P2650, COMMERCIAL GRADE SINGLE SINK FITTING, CARTRIDGE, 3/4" OUTLET HOSE CONNECTION AND WALL FLANGE, HEAVY DUTY CAST BRASS BODY AND POLISHED CHROME PLATE FINISH.	-	-
NFB	NON-FREEZE HOSE BIBB	WATTS DRAINAGE PRODUCTS MODEL HY-725 CONCEALED NON-FREEZE WALL HYDRANT, NICKEL BRONZE BOX AND DOOR, CHROME PLATED HYDRANT FACE, INTEGRAL VACUUM BREAKER, 19MM HOSE CONNECTION, ALL BRONZE HEAD, SAT CASTING AND INTERNAL WORKING PARTS, GALVANIZED WALL CASING, HYDRANT KEY.	-	-

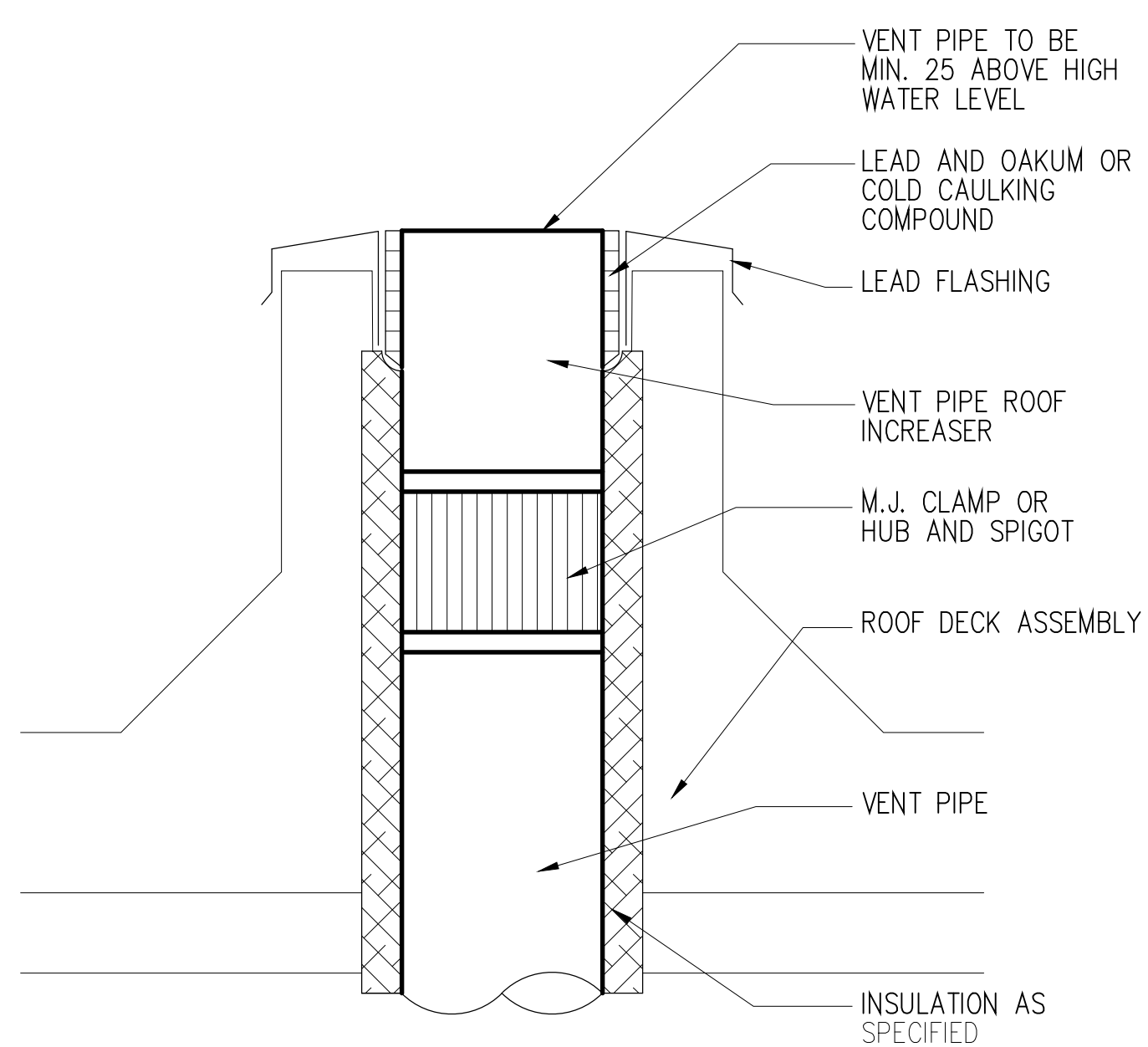


PIPE HANGER SECTION
N.T.S.

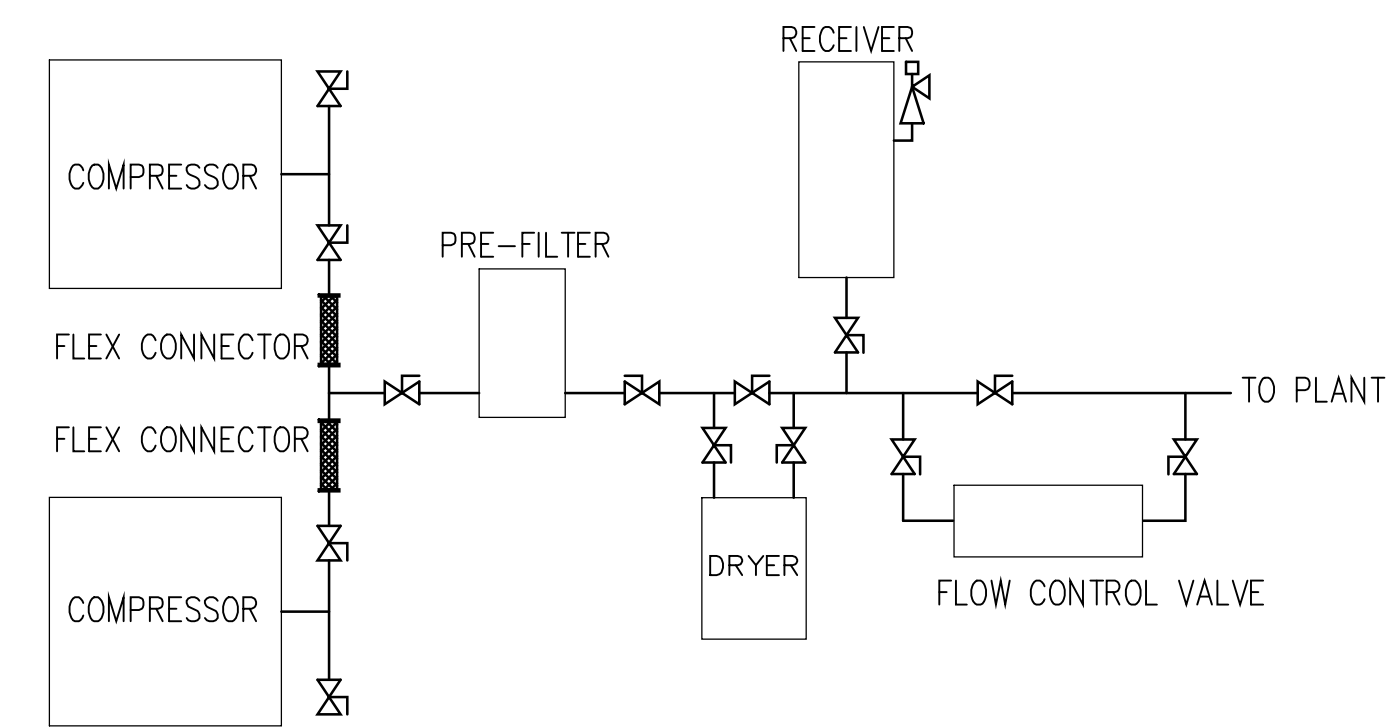


TYPE 'B' FIRE DAMPER DETAIL
N.T.S.

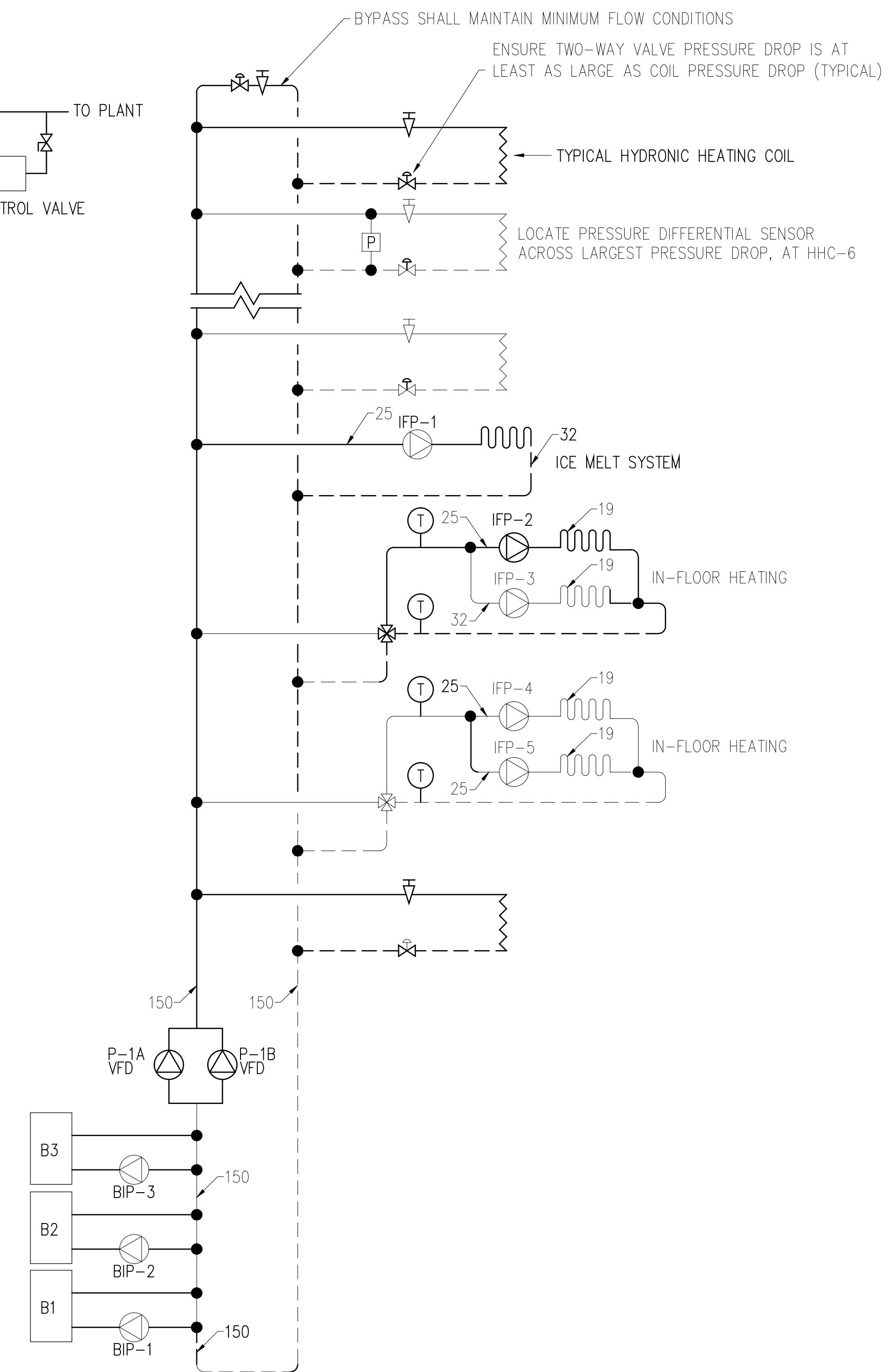
NOTES
FIRE DAMPER TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
DUCT/COLLAR BREAKAWAY CONNECTION TO BE APPROVED.



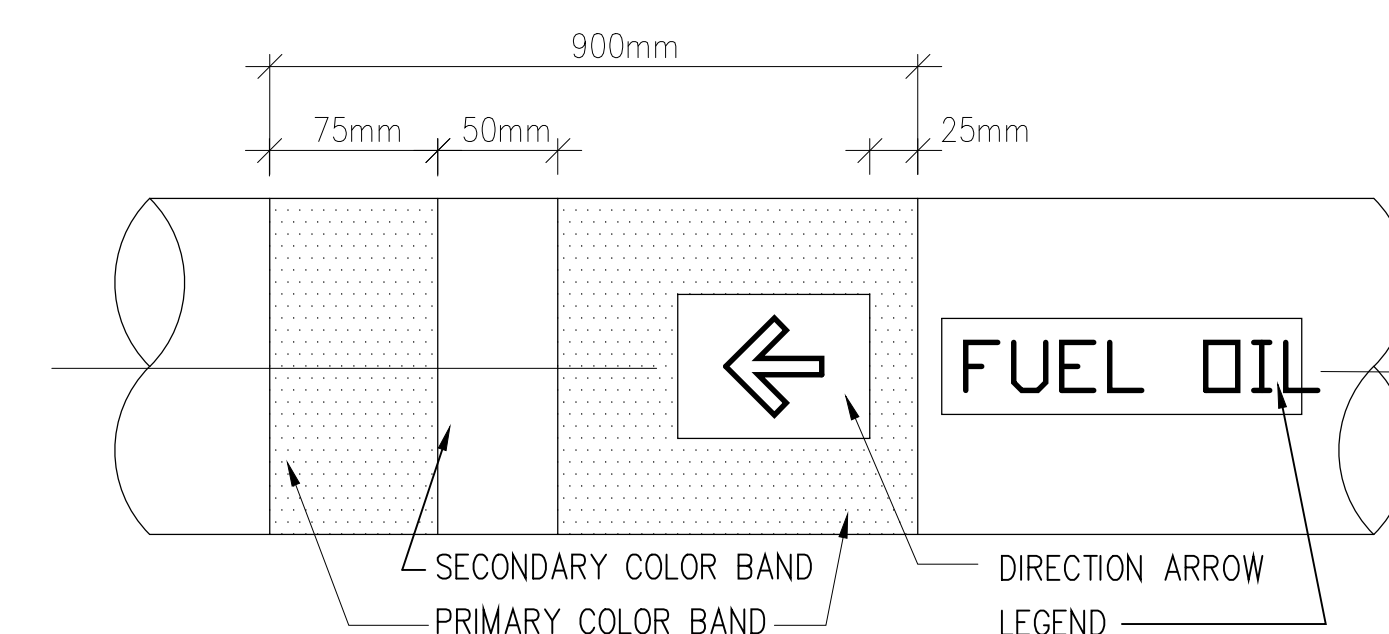
PLUMBING VENT DETAIL
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COMPRESSED AIR SCHEMATIC
N.T.S.

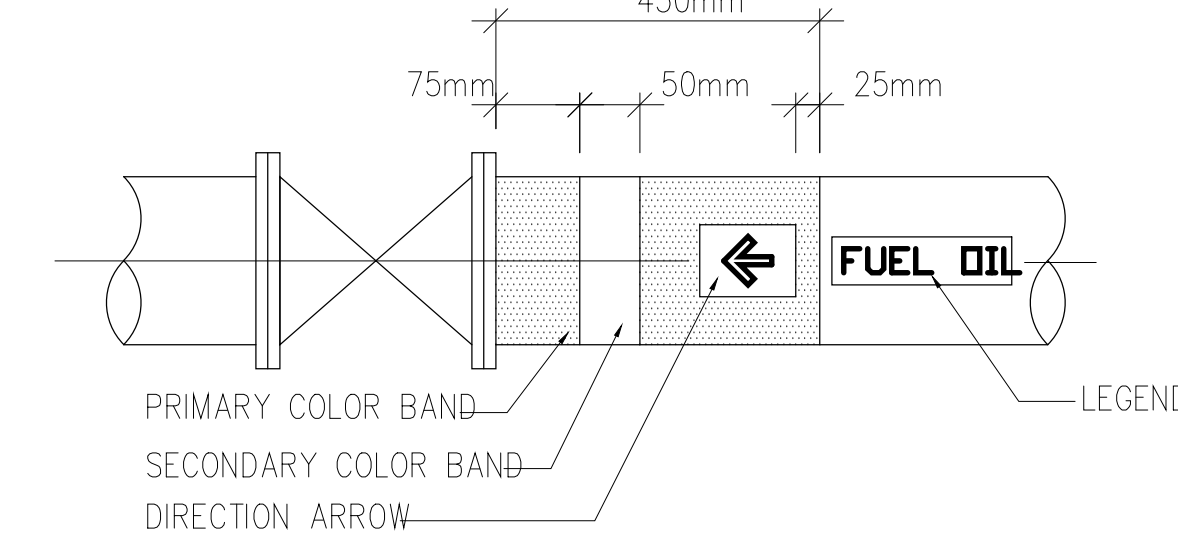


HYDRONIC HEATING DETAIL
N.T.S.



STRAIGHT PIPE ARRANGEMENT

1. PAINTING OF PRIMARY AND SECONDARY MARKING BANDS FOR IDENTIFICATION OF PIPES BY DIVISION 15.
2. STENCILING OF DIRECTION ARROWS AND LEGEND BY DIVISION 15.
3. PIPE PAINTING BY DIVISION 15.



VALVE AND FITTING ARRANGEMENT

PIPING IDENTIFICATION
N.T.S.

RECORD DRAWING
RECORD DRAWINGS ARE BASED ON INFORMATION PROVIDED BY MECHANICAL CONTRACTOR

REVISIONS/ISSUED/ PLOTTED DATE 2013-10-04

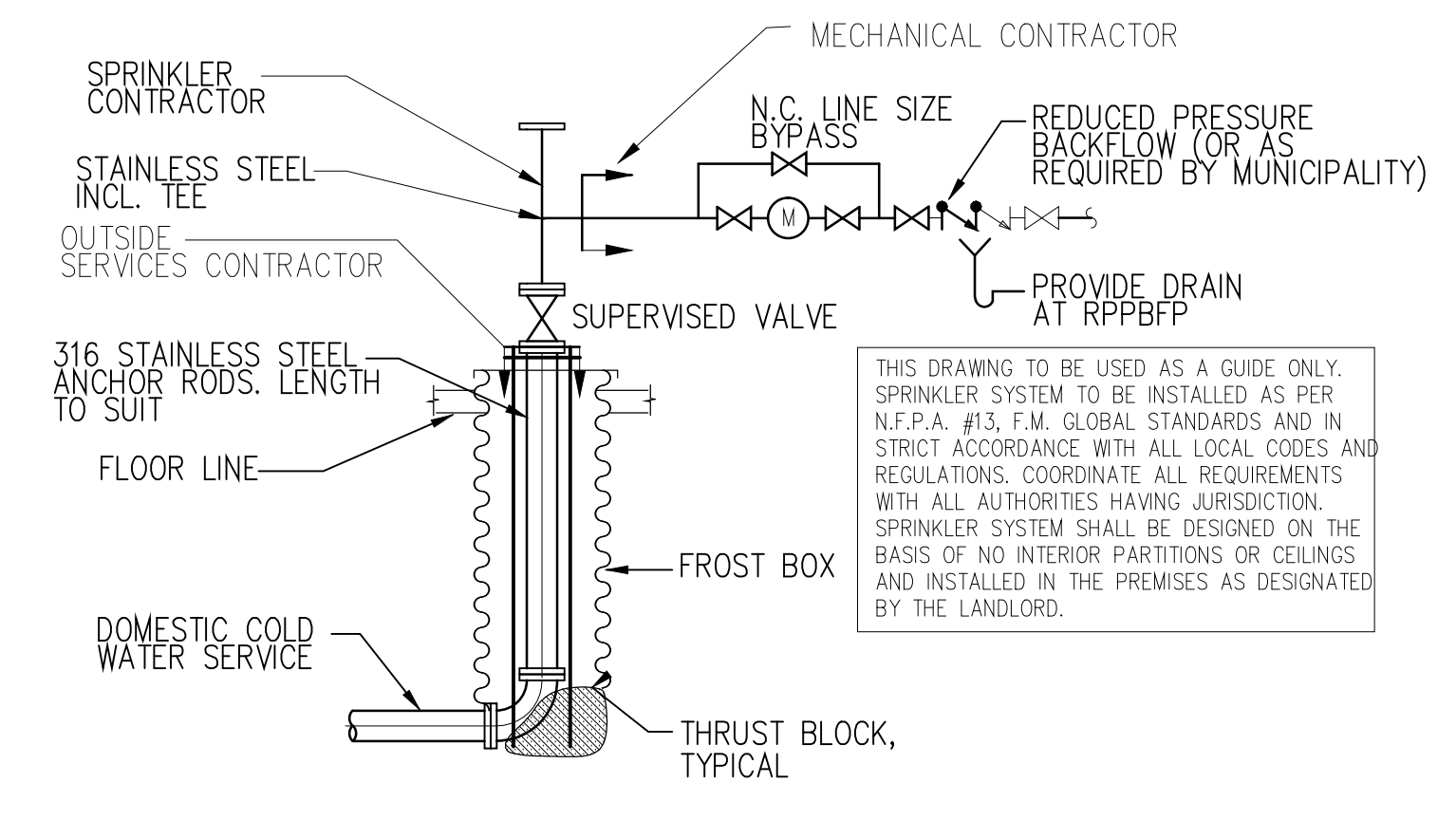
1. AS-BUILTS	

TRANSIT BUS PARKING & SERVICE GARAGE

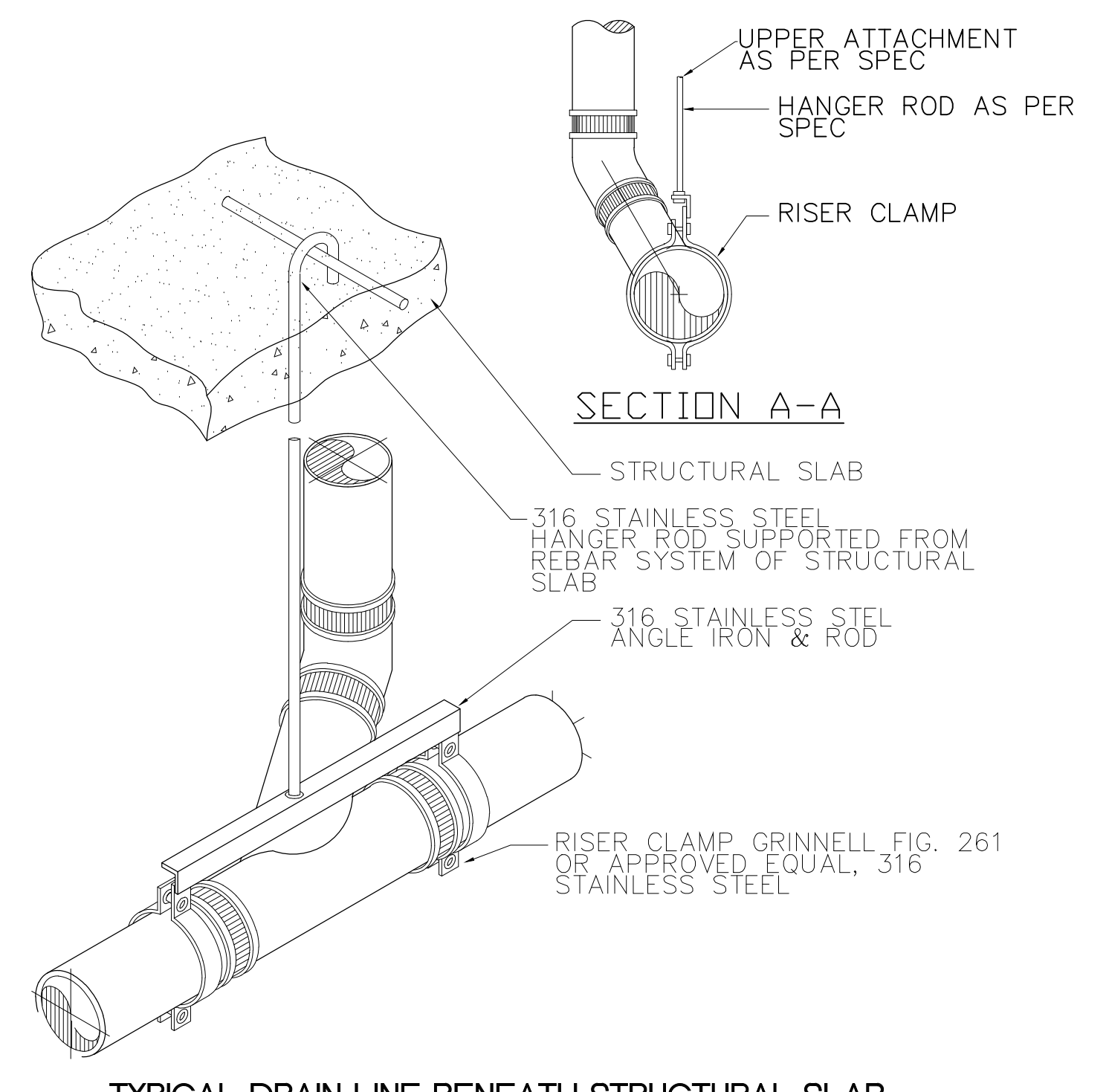
600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - SCHEDULES AND DETAILS

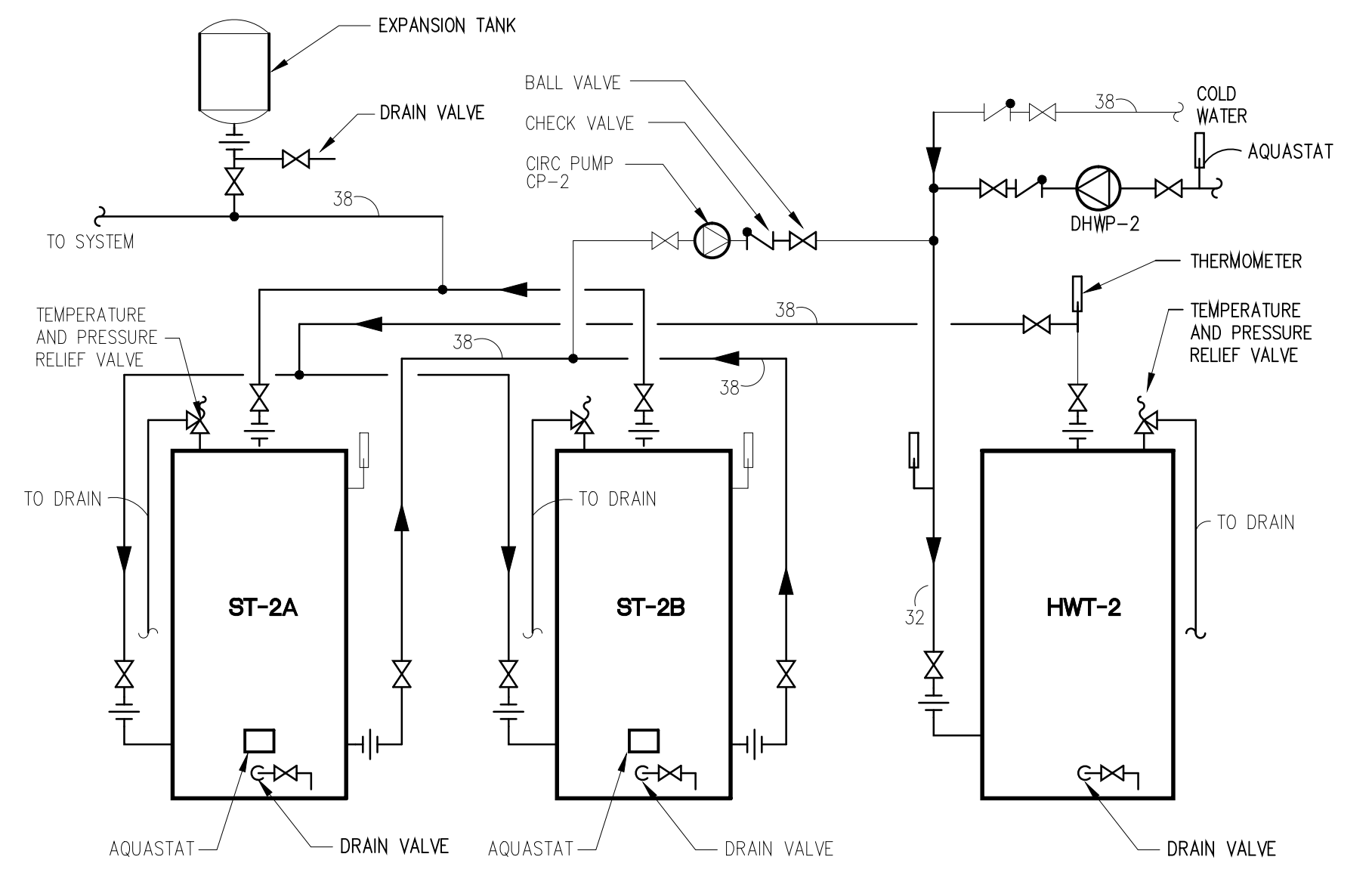
Project number	2012021
Date	Feb. 27, 2013



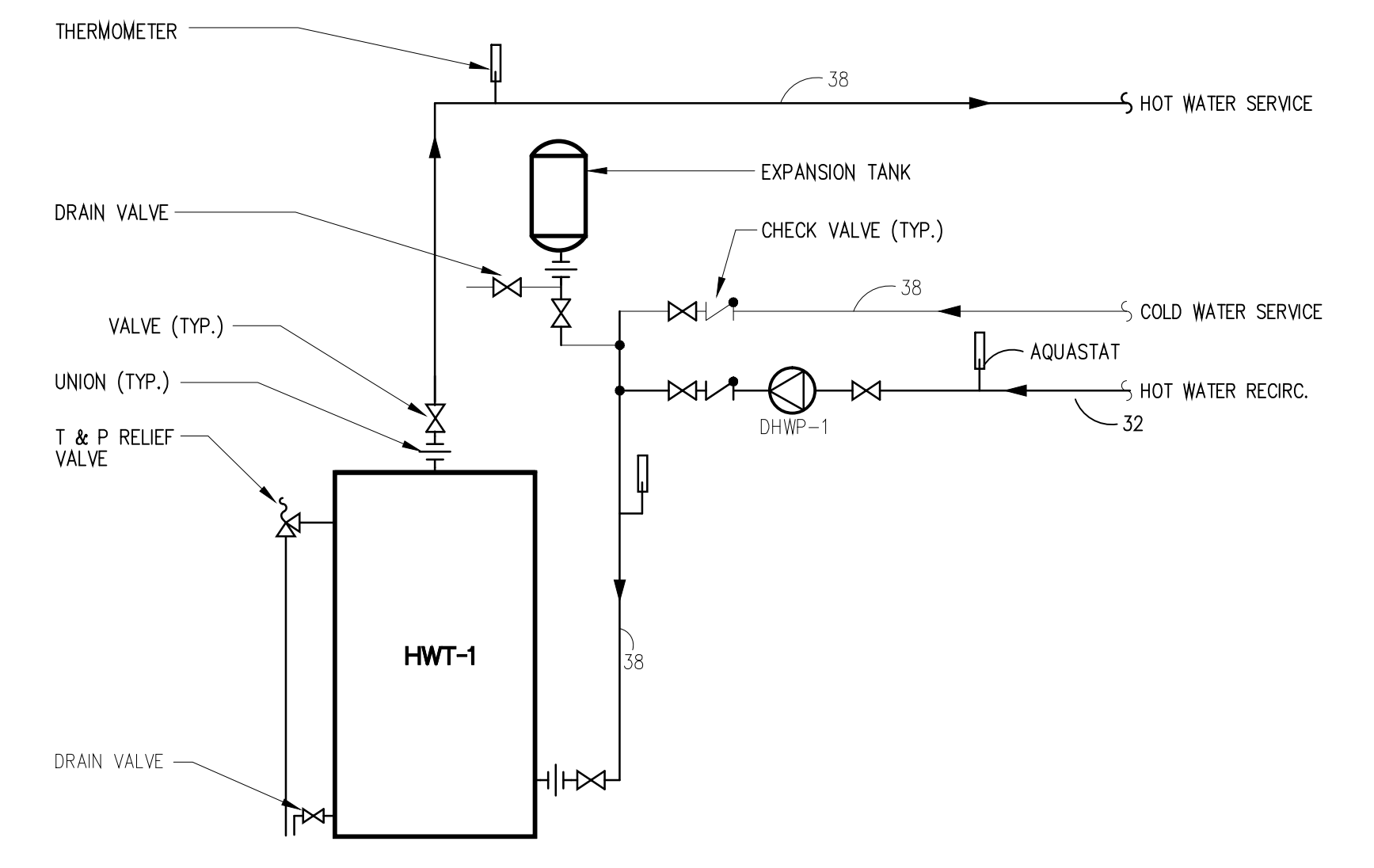
INCOMING WATER SERVICE DETAIL
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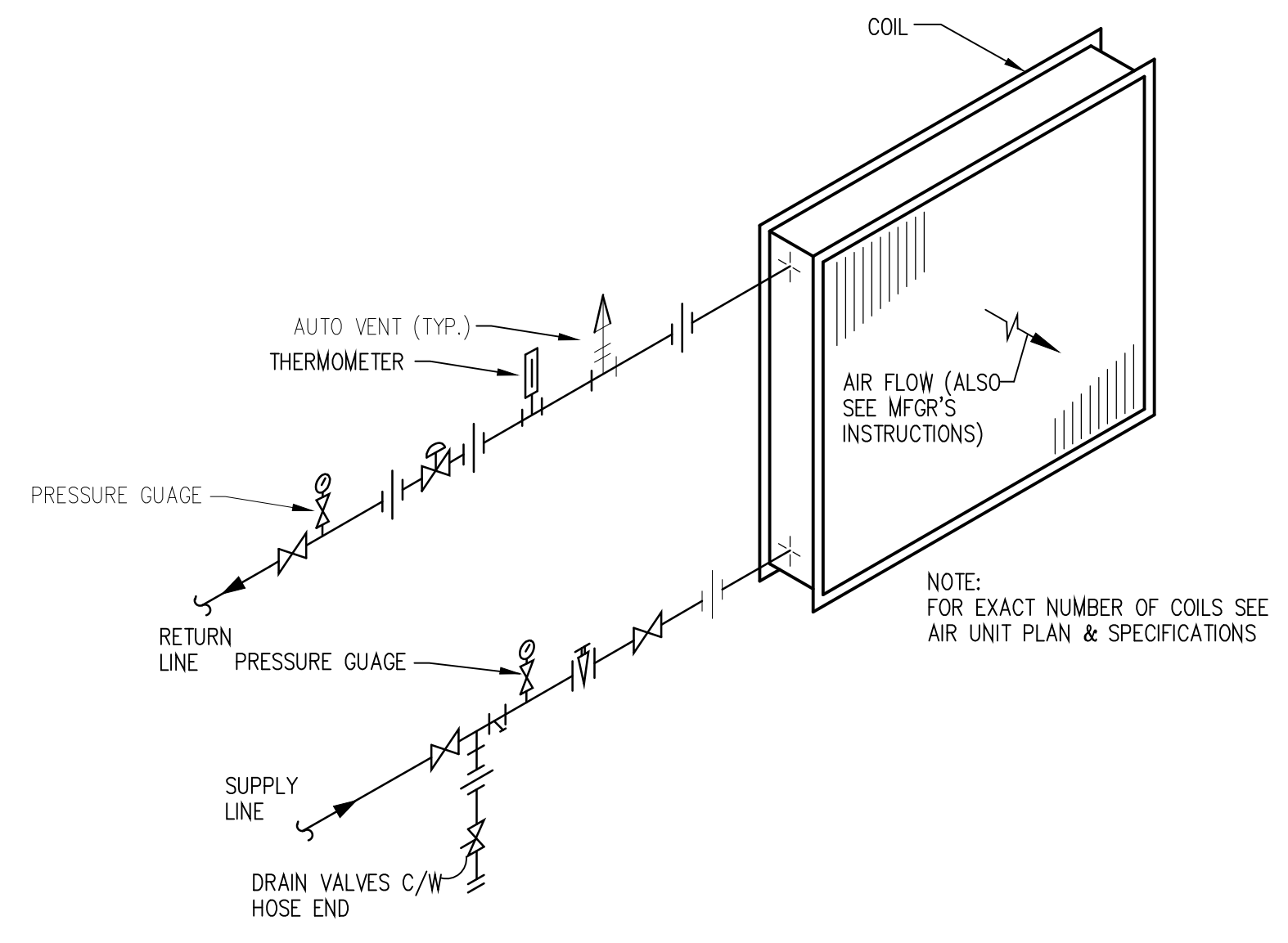
TYPICAL DRAIN LINE BENEATH STRUCTURAL SLAB
 N.T.S.



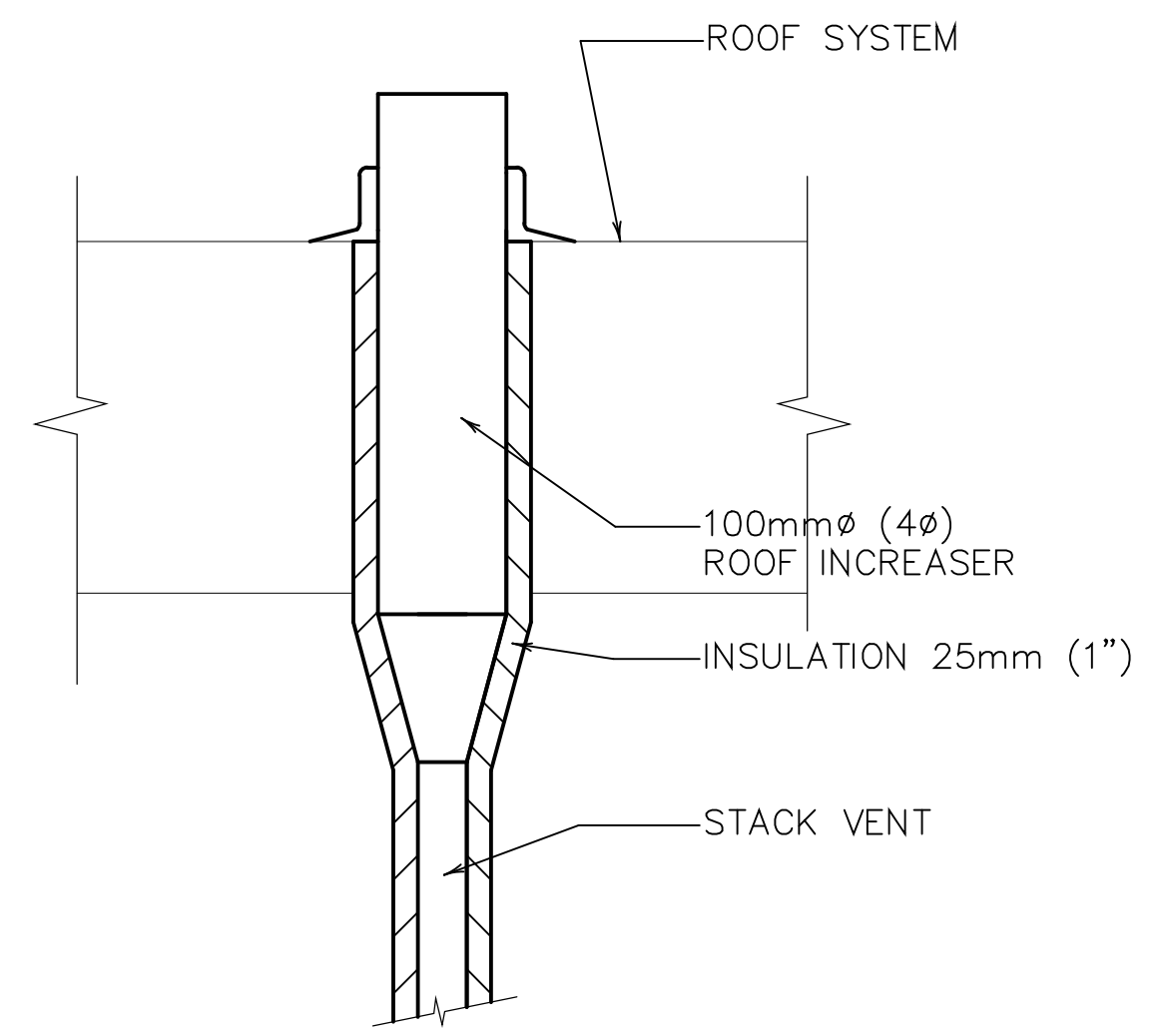
POTABLE HOT WATER HEATER/STORAGE TANK DETAIL
 N.T.S.
 ALL PIPING TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.



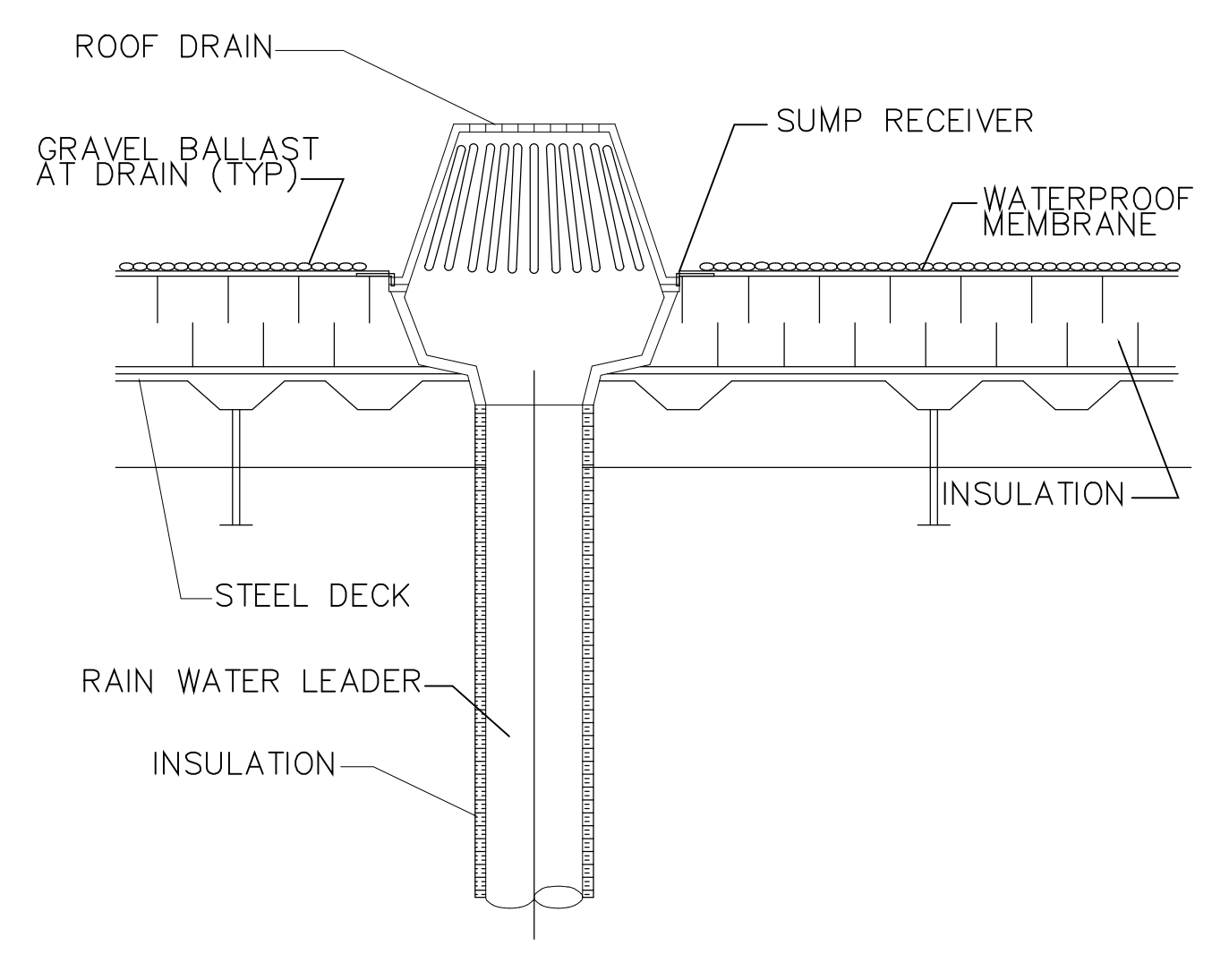
NON-POTABLE HOT WATER HEATER DETAIL
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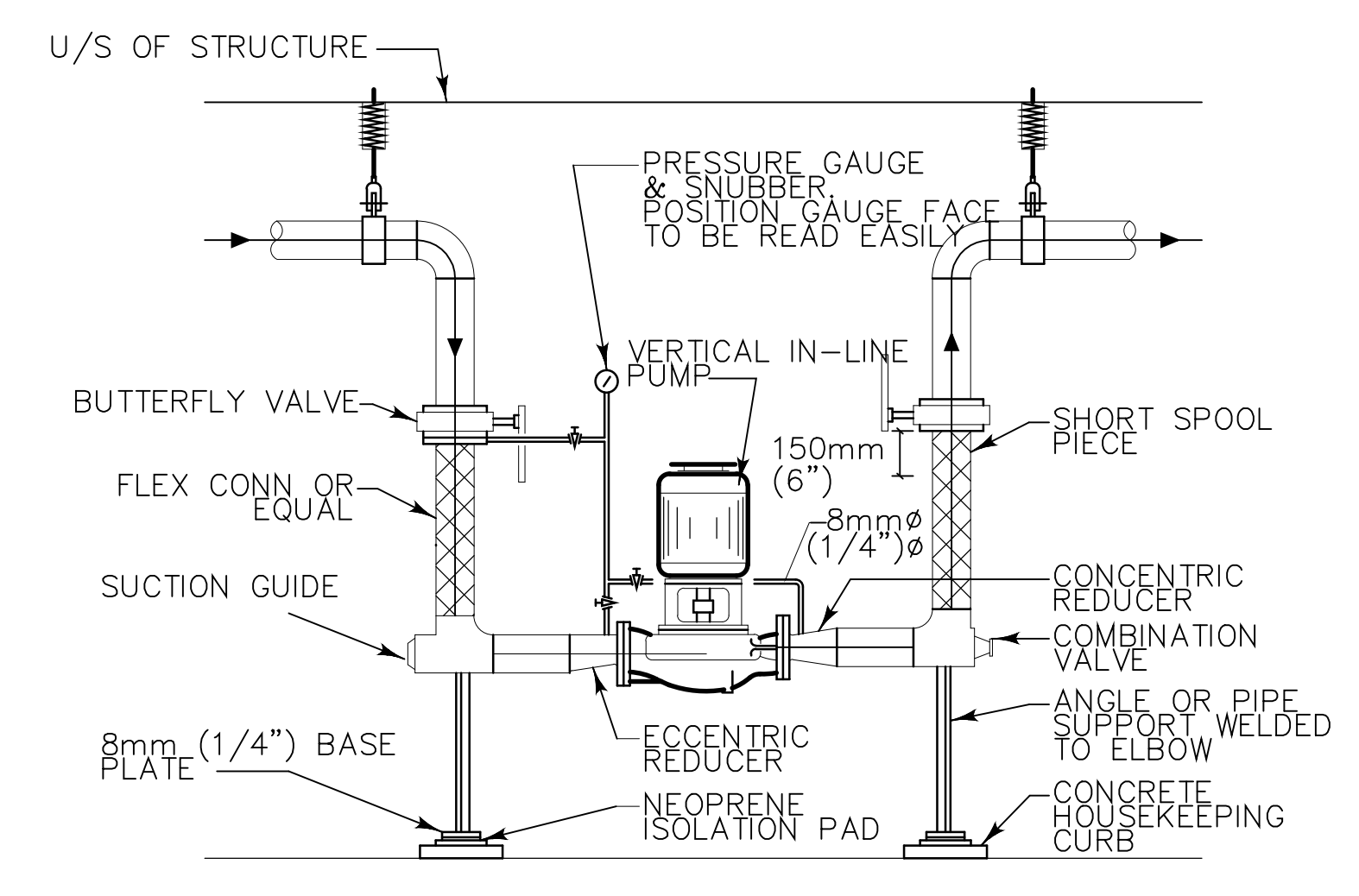
HEATING COIL 2 WAY VALVE CONTROL
 N.T.S.



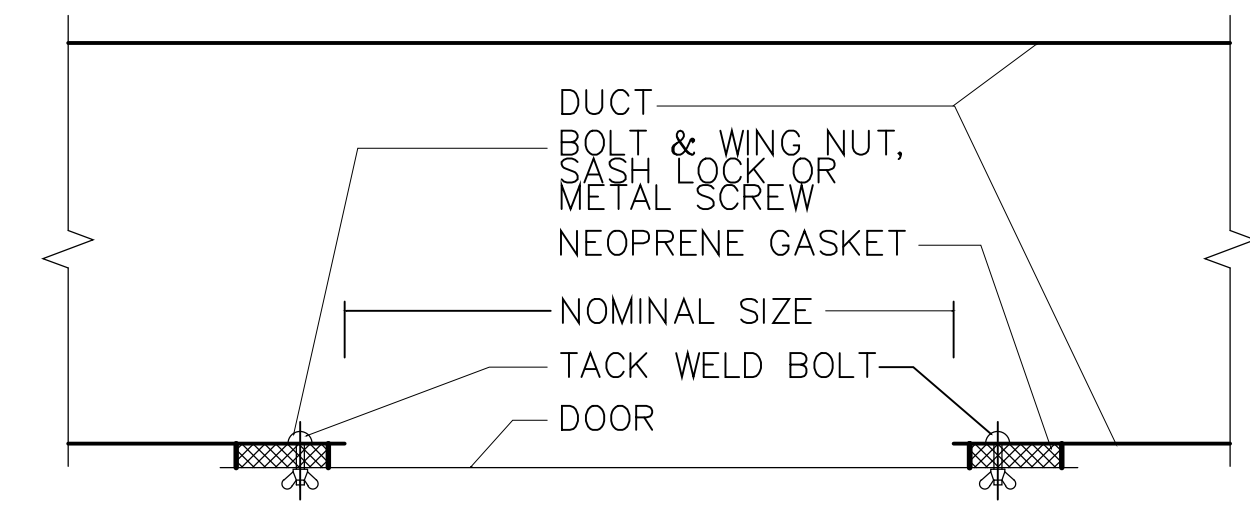
ROOF VENT INCREASER DETAIL
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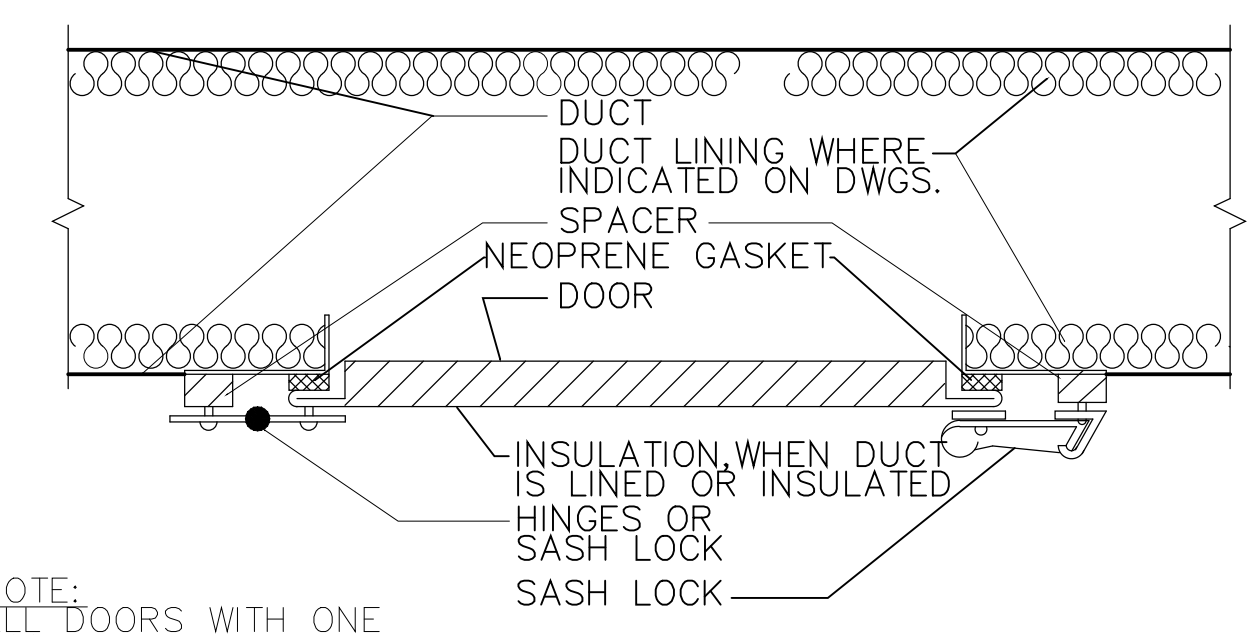
ROOF DRAIN DETAIL
 N.T.S.



FLOOR MOUNTED IN-LINE PUMP DETAIL
 NOTE:
 1) VALVES TO BE PIPE LINE SIZE AS INDICATED ON SCHEMATIC AS INDICATED ON SCHEMATIC



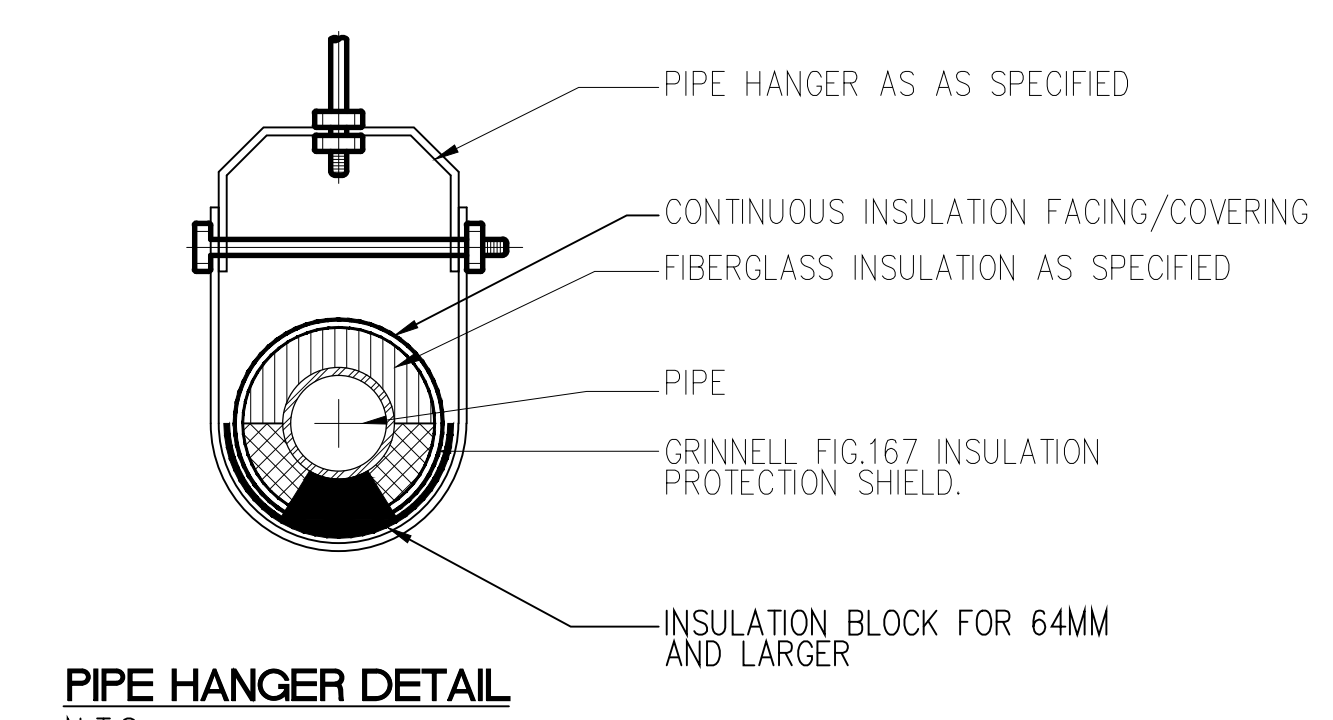
PATCH TYPE ACCESS DOOR



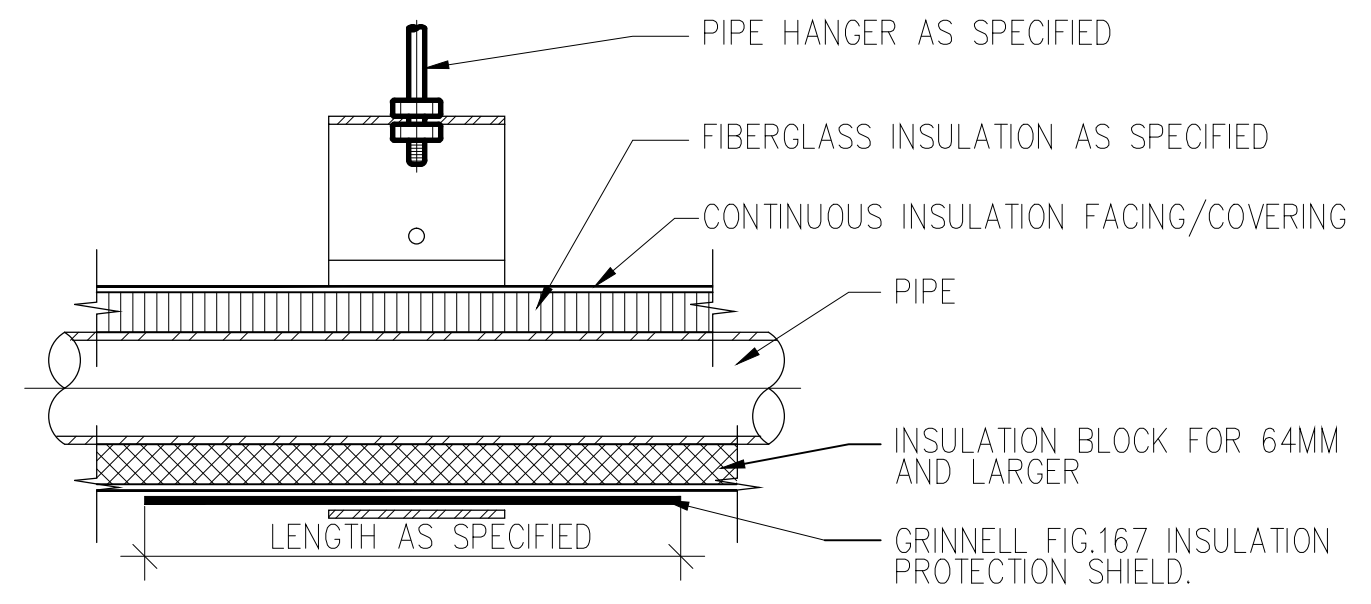
SASH LOCK ACCESS DOOR

DUCT ACCESS DOOR DETAIL
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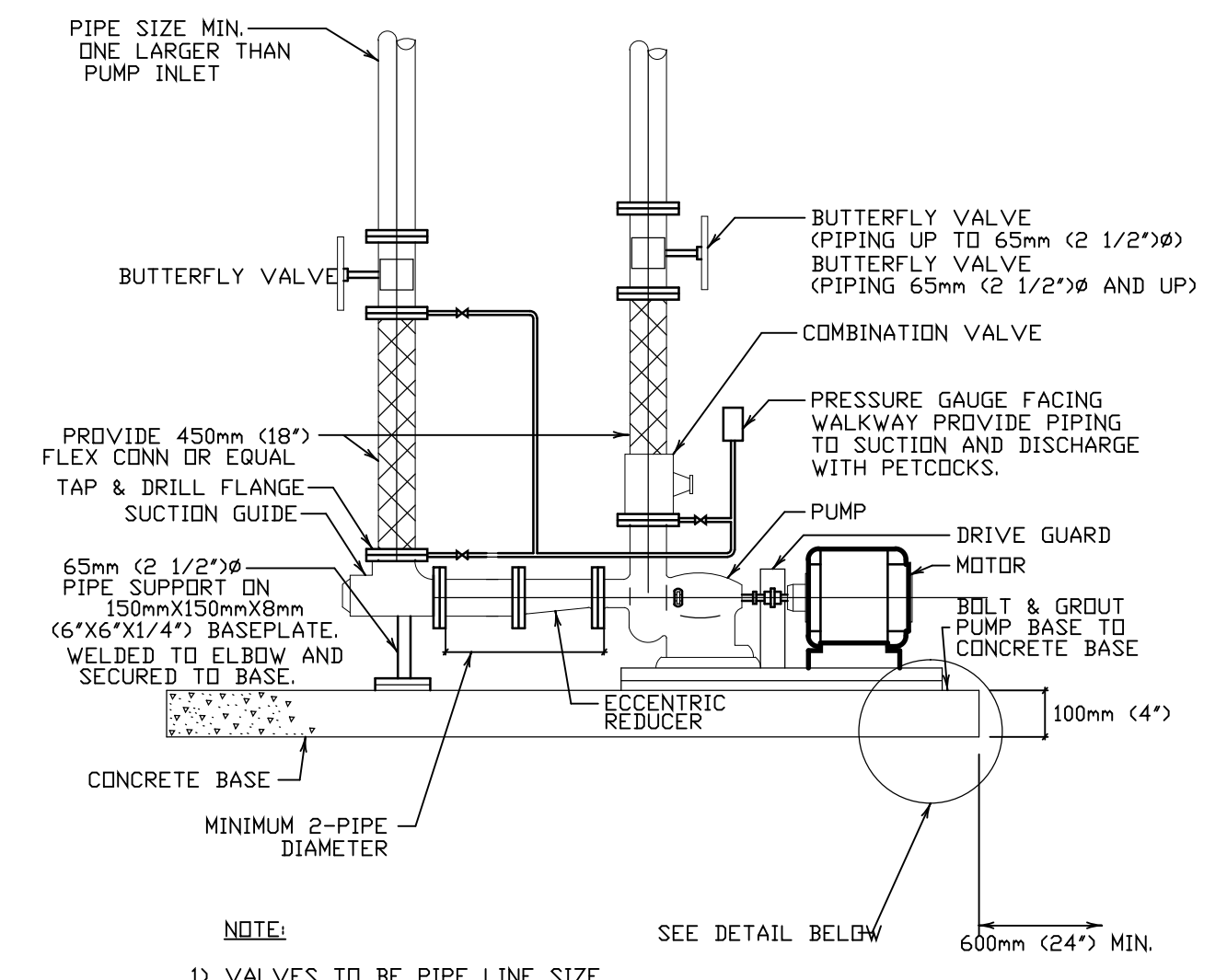
NOTE:
 ALL DOORS WITH ONE DIMENSION GREATER THAN 600mm (24") USE HINGES.



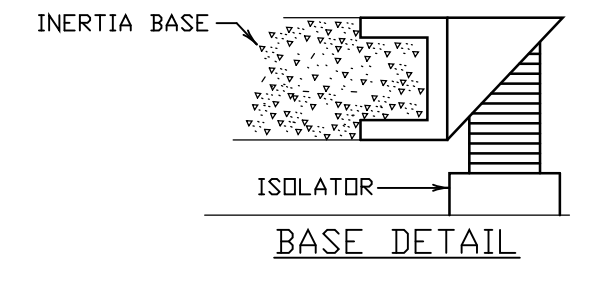
PIPE HANGER DETAIL
 N.T.S.



PIPE HANGER SECTION
 N.T.S.



BASE MOUNTED PUMP DETAIL
 N.T.S.
 NOTE:
 1) VALVES TO BE PIPE LINE SIZE AS INDICATED ON SCHEMATIC



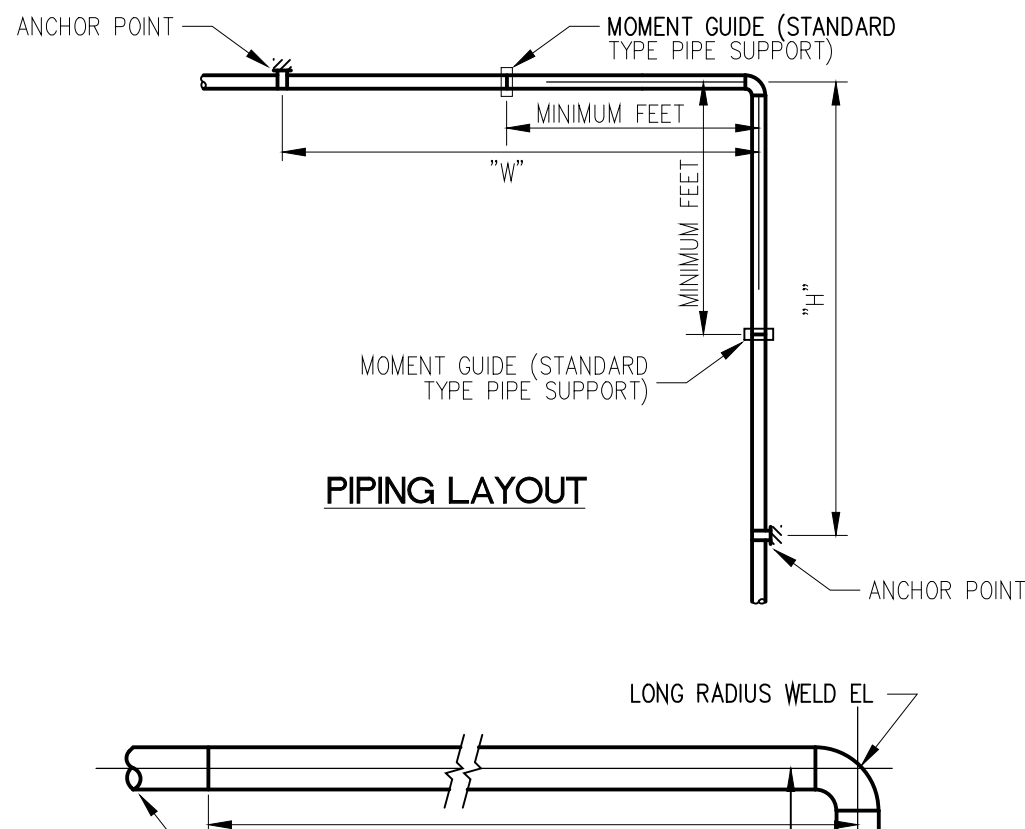
BASE DETAIL

DESIGNING OF EXPANSION BEND

1. DETERMINE UNIT EXPANSION.
2. MULTIPLY UNIT EXPANSION BY FOOTAGE TO DETERMINE TOTAL EXPANSION IN LONGEST LEG.

PIPE SIZE	EXPANSION OF LONGEST LEG								
	1"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"
2"	8	11	13	15	16	17	18	19	20
2-1/2"	9	12	14	16	17	18	19	21	22
3"	10	13	15	17	18	19	20	22	23
4"	11	14	16	18	19	22	22	24	25
5"	12	15	17	19	21	23	25	27	28
6"	13	16	19	21	23	25	27	29	31
8"	18	20	22	25	27	29	31	33	35
10"	20	23	26	28	30	33	35	38	40
12"	20	26	29	32	34	37	49	43	45

3. FIND MINIMUM FEET REQUIRED FOR THIS AMOUNT OF EXPANSION FROM CHART. THIS REPRESENTS THE MINIMUM FOOTAGE TO EXPANSION TYPE PIPE SUPPORTS REQUIRED EACH SIDE OF ELBOW.
4. CHART BASED ON ASTM A53 GRADE "A" SEAMLESS STEEL PIPE.



DETAILS OF EXPANSION BEND

N.T.S.

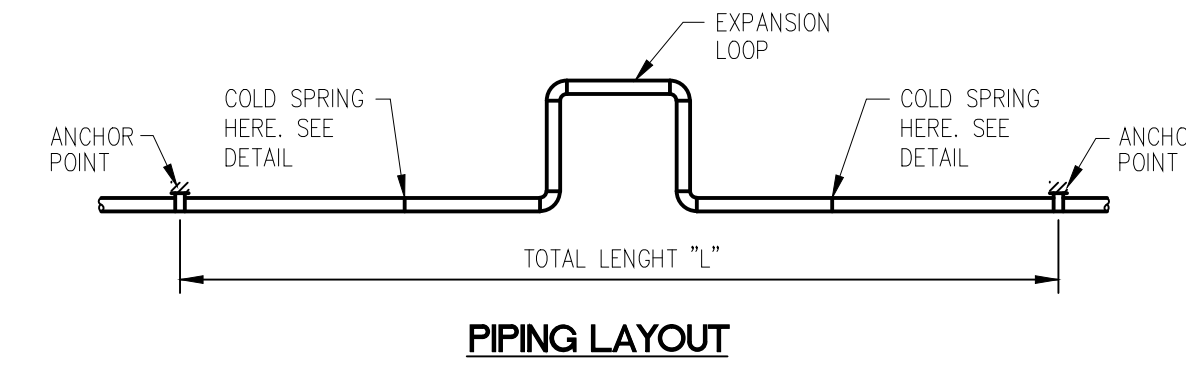
DESIGNING THE EXPANSION LOOP

1. DETERMINE UNIT EXPANSION.
2. MULTIPLY UNIT EXPANSION BY FOOTAGE TO DETERMINE TOTAL EXPANSION BETWEEN ANCHOR POINTS.
3. ENTER TABLE FOR TOTAL FOOTAGE IN LOOP (2H, W).

PIPE SIZE	TABLE FOR LOOPS					
	1" NOT SPRUNG	2" NOT SPRUNG	3" NOT SPRUNG	4" NOT SPRUNG	5" NOT SPRUNG	6" NOT SPRUNG
2"	10 FEET	15 FEET	19 FEET	23 FEET	26 FEET	29 FEET
2-1/2"	10 FEET	15 FEET	19 FEET	23 FEET	26 FEET	29 FEET
3"	12 FEET	18 FEET	22 FEET	27 FEET	30 FEET	34 FEET
4"	13 FEET	20 FEET	26 FEET	31 FEET	35 FEET	39 FEET
5"	14 FEET	22 FEET	29 FEET	35 FEET	40 FEET	44 FEET
6"	15 FEET	24 FEET	32 FEET	39 FEET	44 FEET	50 FEET
8"	16 FEET	27 FEET	35 FEET	43 FEET	50 FEET	57 FEET
10"	17 FEET	28 FEET	38 FEET	46 FEET	55 FEET	62 FEET
12"	18 FEET	30 FEET	40 FEET	50 FEET	60 FEET	69 FEET

4. EXPANSION LOOP MAY BE COLD SPRUNG 1/2 OF TOTAL EXPANSION, BUT ONLY 1/2 CREDIT MAY BE TAKEN.
5. CHART BASED ON ASTM A53 GRADE "A" SEAMLESS STEEL PIPE.
6. WHERE THERE ARE DIMENSIONAL LIMITATIONS IN EITHER DIRECTION, ASSUME THE ONE AND SOLVE FOR THE OTHER. (TOTAL = W + 2H).
7. WHERE THERE ARE NO DIMENSIONAL LIMITATIONS IN EITHER DIRECTION, DESIGN THE LOOP FOR W = H / 2.

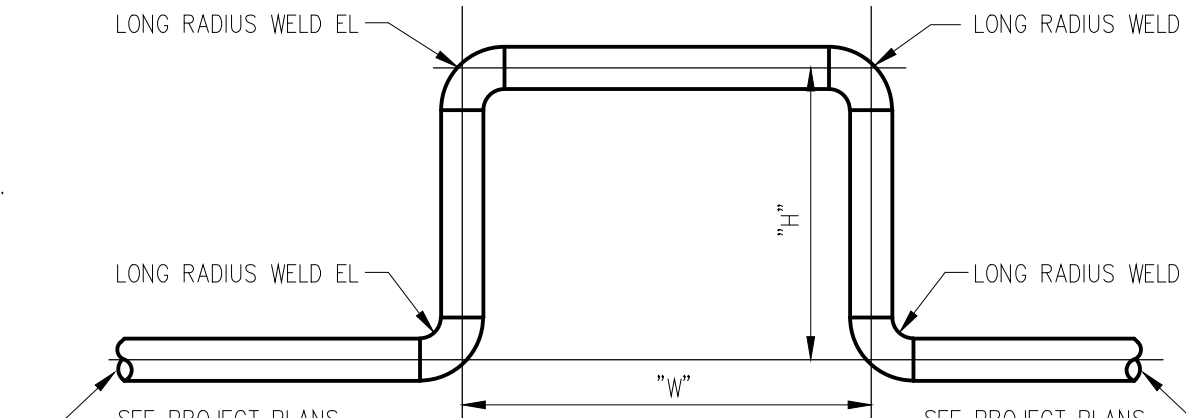
UNIT THERMAL EXPANSION OF STEEL PIPE INCHES PER 100 FEET (ASSUMING 40°F INSTALLATION TEMPERATURE)								
140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
0.78"	0.86"	0.94"	1.02"	1.10"	1.18"	1.26"	1.34"	1.42"
230°F	240°F	250°F	260°F	270°F	280°F	290°F	300°F	310°F
1.50"	1.58"	1.67"	1.75"	1.83"	1.92"	2.00"	2.08"	2.16"
320°F	330°F	340°F	350°F	360°F	370°F	380°F	390°F	400°F
2.28"	2.35"	2.43"	2.51"	2.59"	2.67"	2.75"	2.83"	2.91"
410°F	420°F	430°F	440°F	450°F	460°F	470°F	480°F	490°F
3.03"	3.11"	3.19"	3.27"	3.35"	3.43"	3.51"	3.59"	3.67"



PIPING LAYOUT

COLD SPRING NOTES

- TOTAL COLD SPRING DIMENSION SHALL BE 1/2 OF TOTAL EXPANSION.
- INSTALL ALL PIPE LEAVING SPACE AT COLD SPRING LOCATION.
- TACK ANGLES WITH HOLES TO EACH END OF PIPE. PUT BOLD IN PLACE AND DRAW PIPE ENDS TOGETHER.
- TACK WELD PIPE JOINT.
- KNOCK OFF ANGLES AND COMPLETE WELD.



DETAILS OF EXPANSION LOOP

N.T.S.

LEGEND

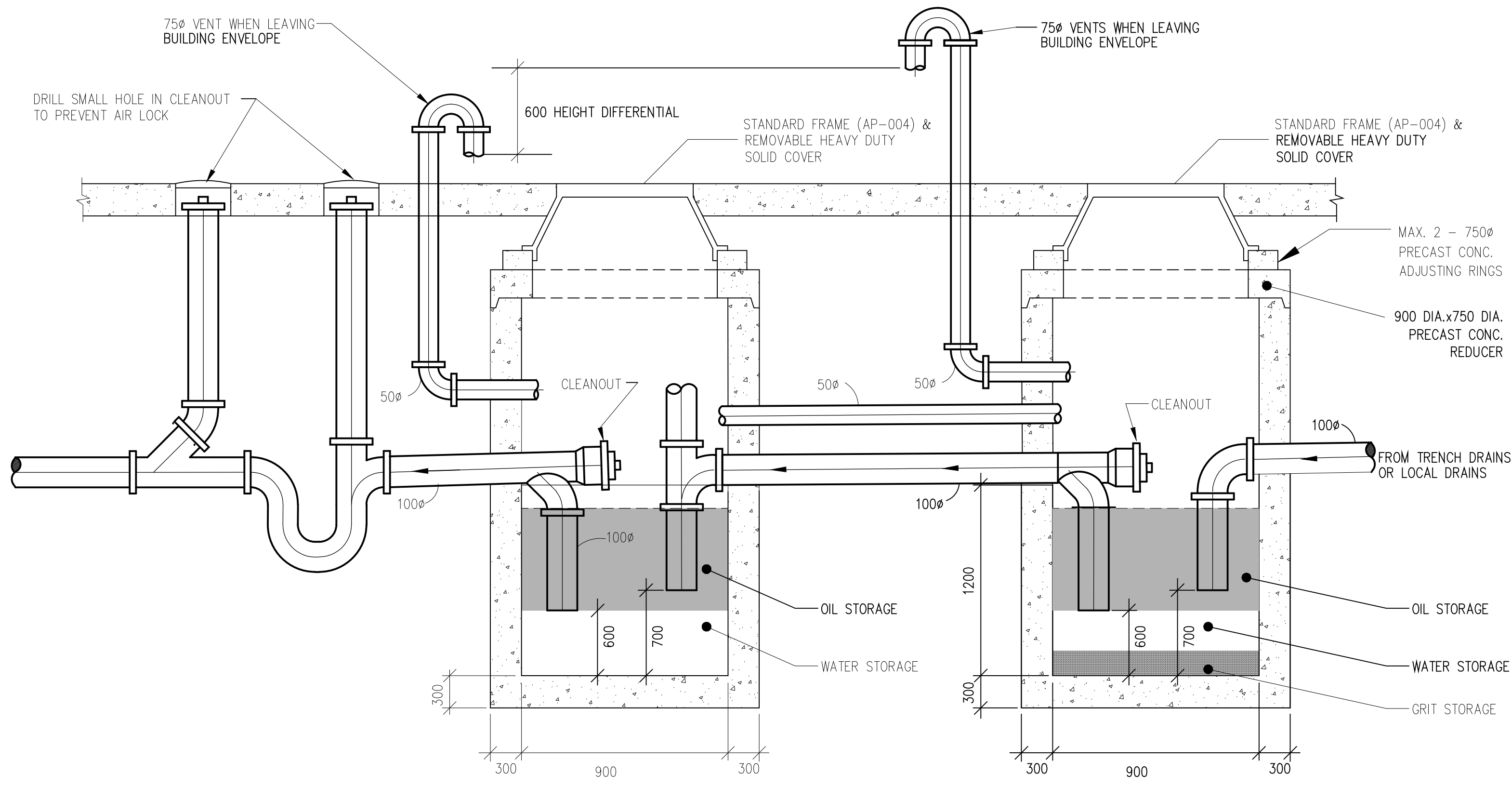
	SANITARY LINE ABOVE FLOOR/GRADE		SUPPLY AIR DIFFUSER
	SANITARY LINE BELOW FLOOR/GRADE		RETURN AIR DIFFUSER
	RAIN WATER LEADER		THERMOSTAT
	STORM SEWER ABOVE FLOOR/GRADE		B.B.D.
	STORM SEWER BELOW FLOOR/GRADE		BACK DRAFT DAMPER
	DOMESTIC COLD WATER LINE		MANUAL BALANCING DAMPER
	DOMESTIC HOT WATER LINE		FIRE DAMPER & ACCESS DOOR
	DOMESTIC HOT WATER RECIRC. LINE		F.D.
	DOMESTIC COLD WATER PROCESS		MOTORIZED DAMPER
	DOMESTIC HOT WATER PROCESS		ACOUSTIC INSULATION
	DOMESTIC HOT WATER RECIRC. PROCESS		THERMAL INSULATION
	GAS LINE		FLEXIBLE DUCT CONNECTION
	WALL HYDRANT		EQUIPMENT TAG
	CLEANOUT		GRILLE OR DIFFUSER TAG
	FLOOR DRAIN		RADIATION UNIT TAG
	FUNNEL FLOOR DRAIN		DRAWING NOTE TAG
	HUB DRAIN		
	ROOF DRAIN		
	PUMP		
	SHUT-OFF VALVE		
	CHECK VALVE		
	MANUAL BALANCING VALVE		
	3-WAY VALVE		
	DIRECTION OF FLOW		
	EQUIPMENT TAG		
	DRAWING NOTE TAG		

RECORD DRAWING

RECORD DRAWINGS ARE BASED ON INFORMATION PROVIDED BY MECHANICAL CONTRACTOR.

REVISION/ISSUED/ PLOTTED DATE 2013-10-04

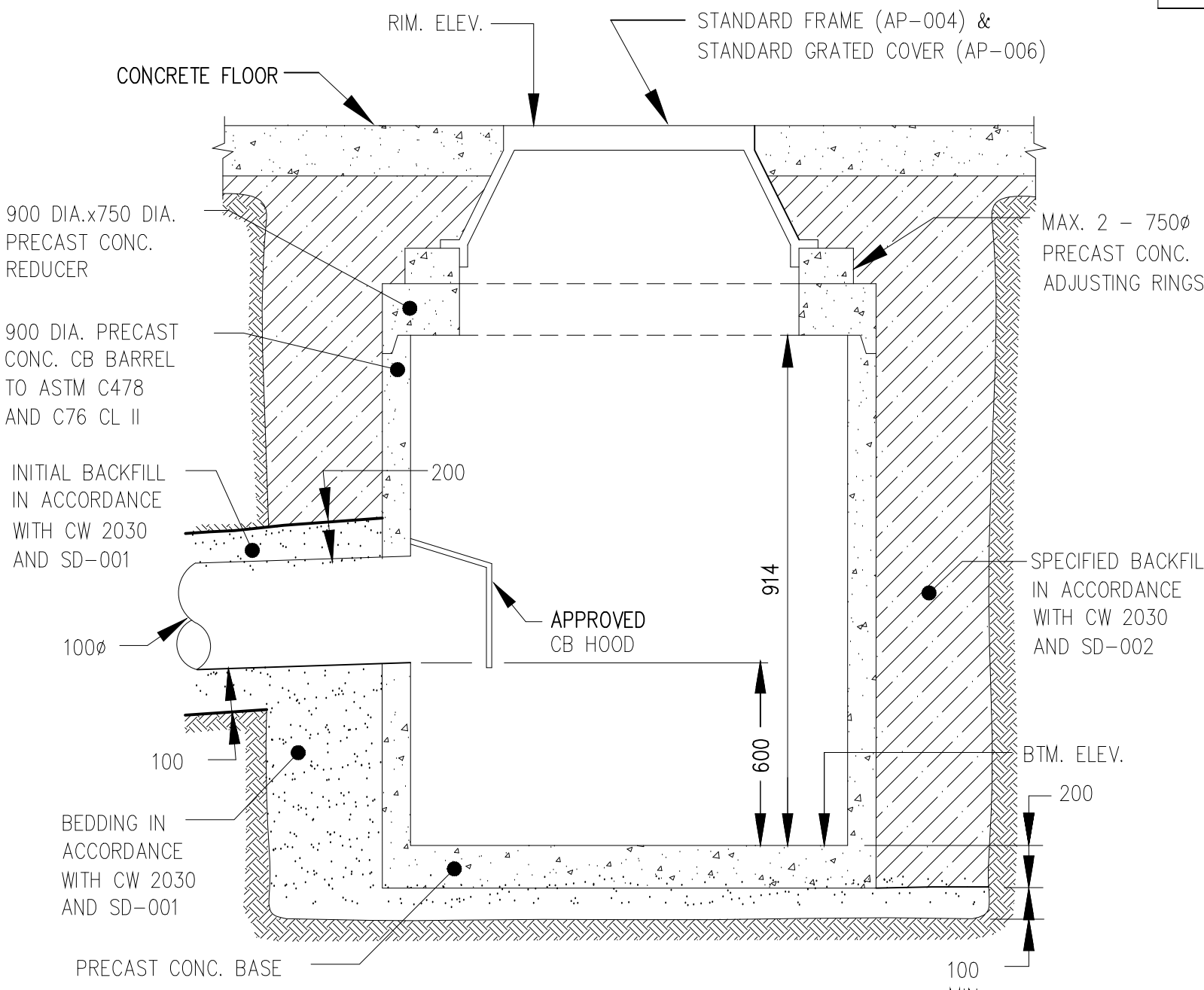
1. AS-BUILTS



NOTE: FOR CONSTRUCTION OF PIT REFER TO STRUCTURAL DRAWINGS.

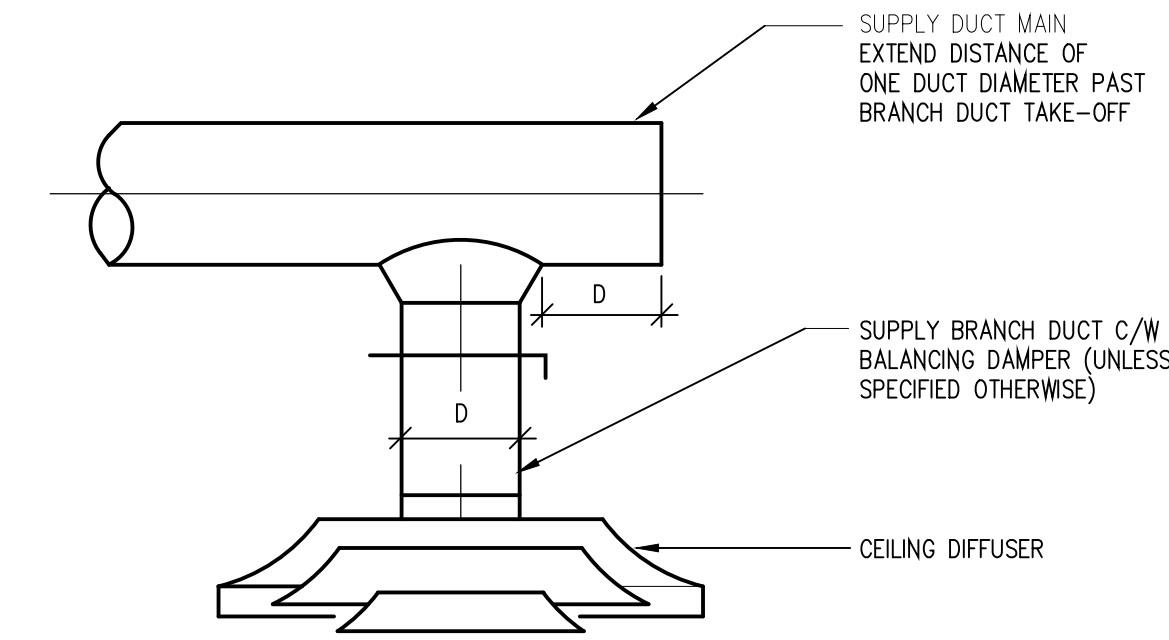
MULTI COMPARTMENT OIL/GRIT INTERCEPTOR

N.T.S.



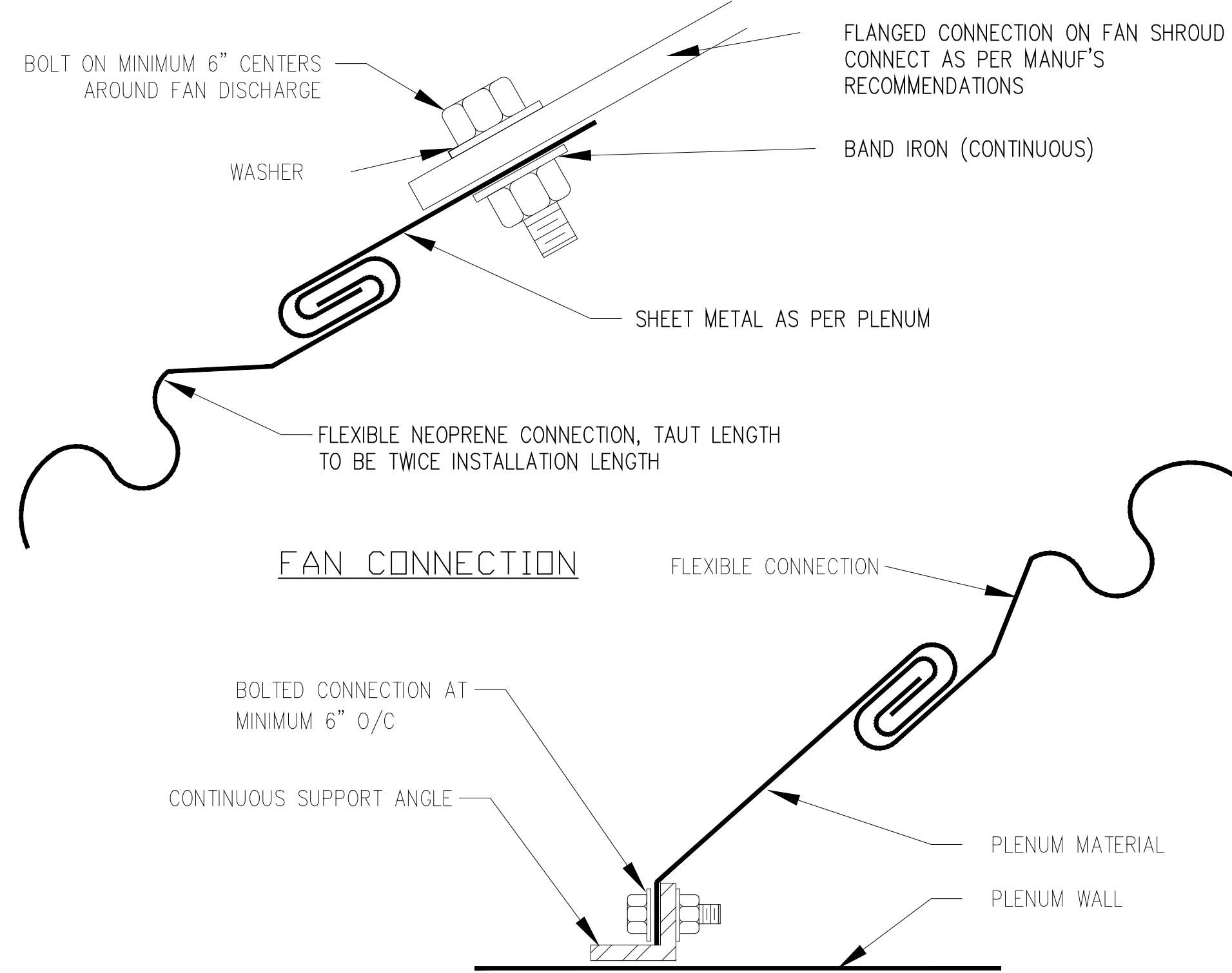
CATCH BASIN (FLOOR DRAIN)

N.T.S.



CUSHION HEAD DETAIL

N.T.S.

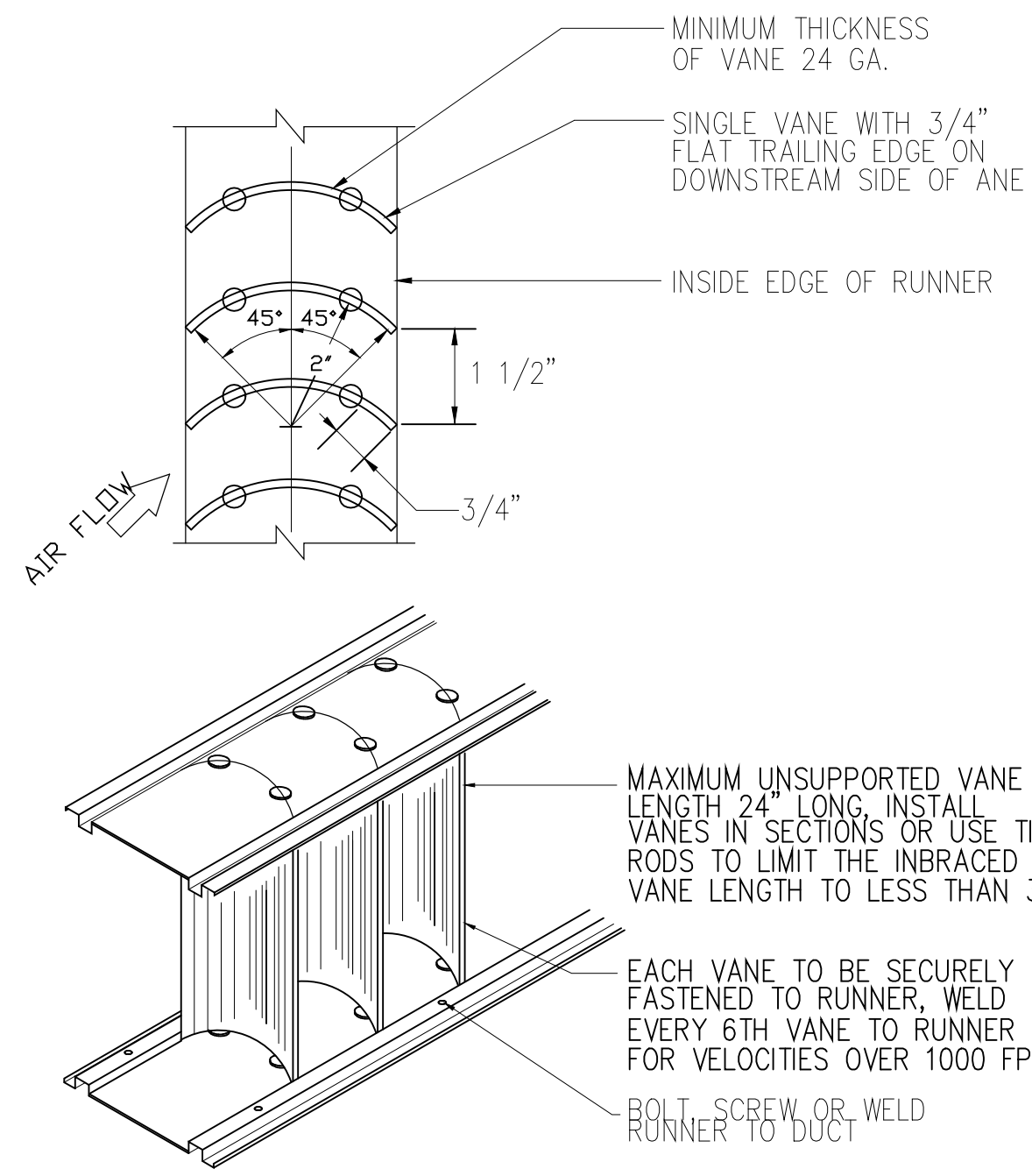


FAN CONNECTION

PLENUM CONNECTION

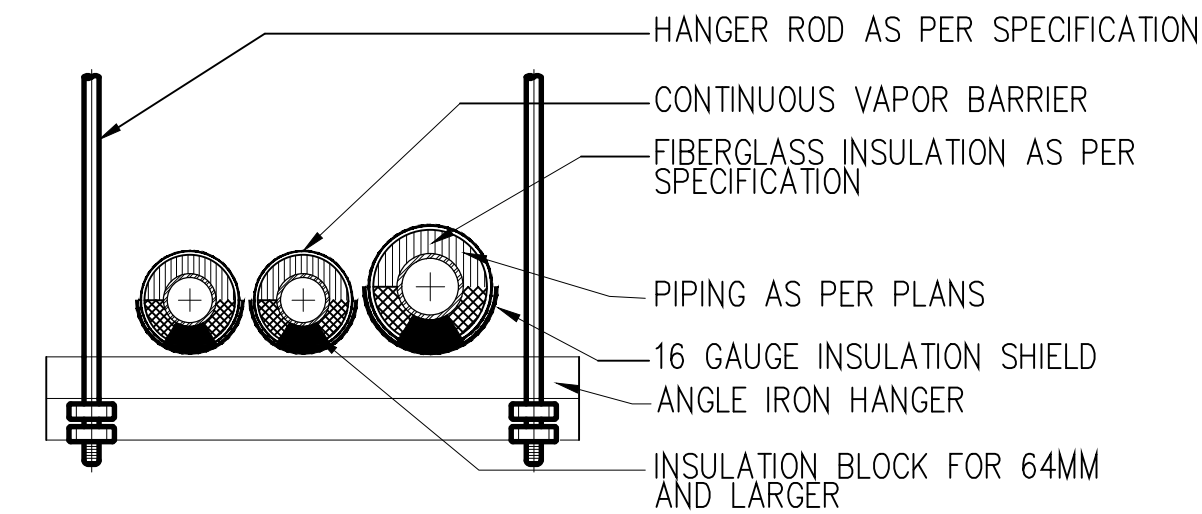
FLEXIBLE CONNECTION DETAIL

N.T.S.



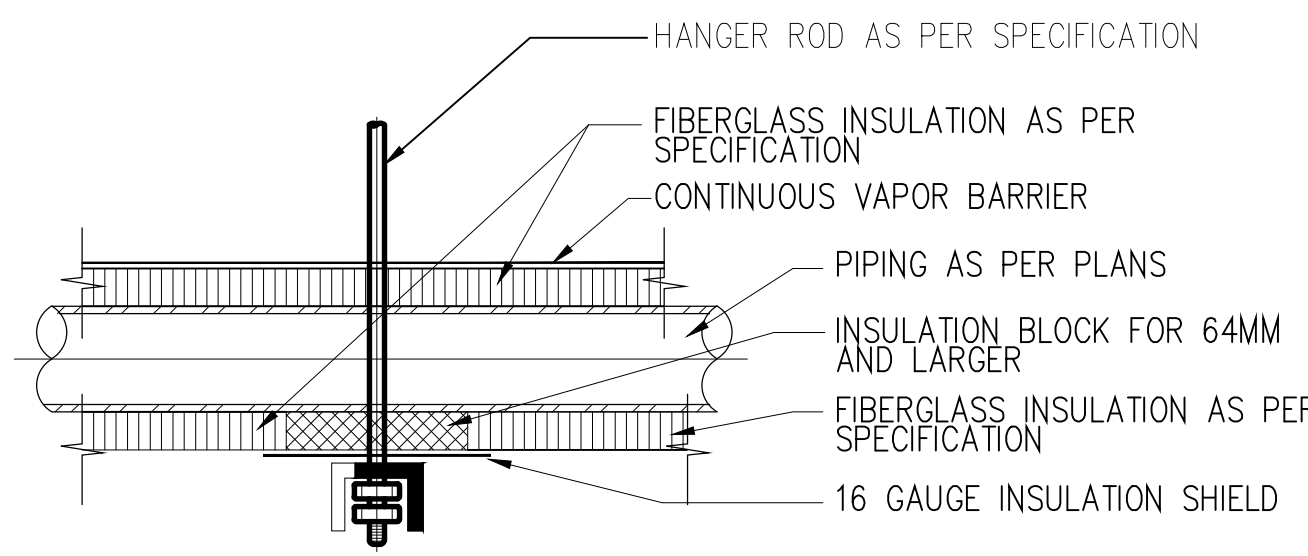
TURNING VANE CONSTRUCTION DETAIL

N.T.S.



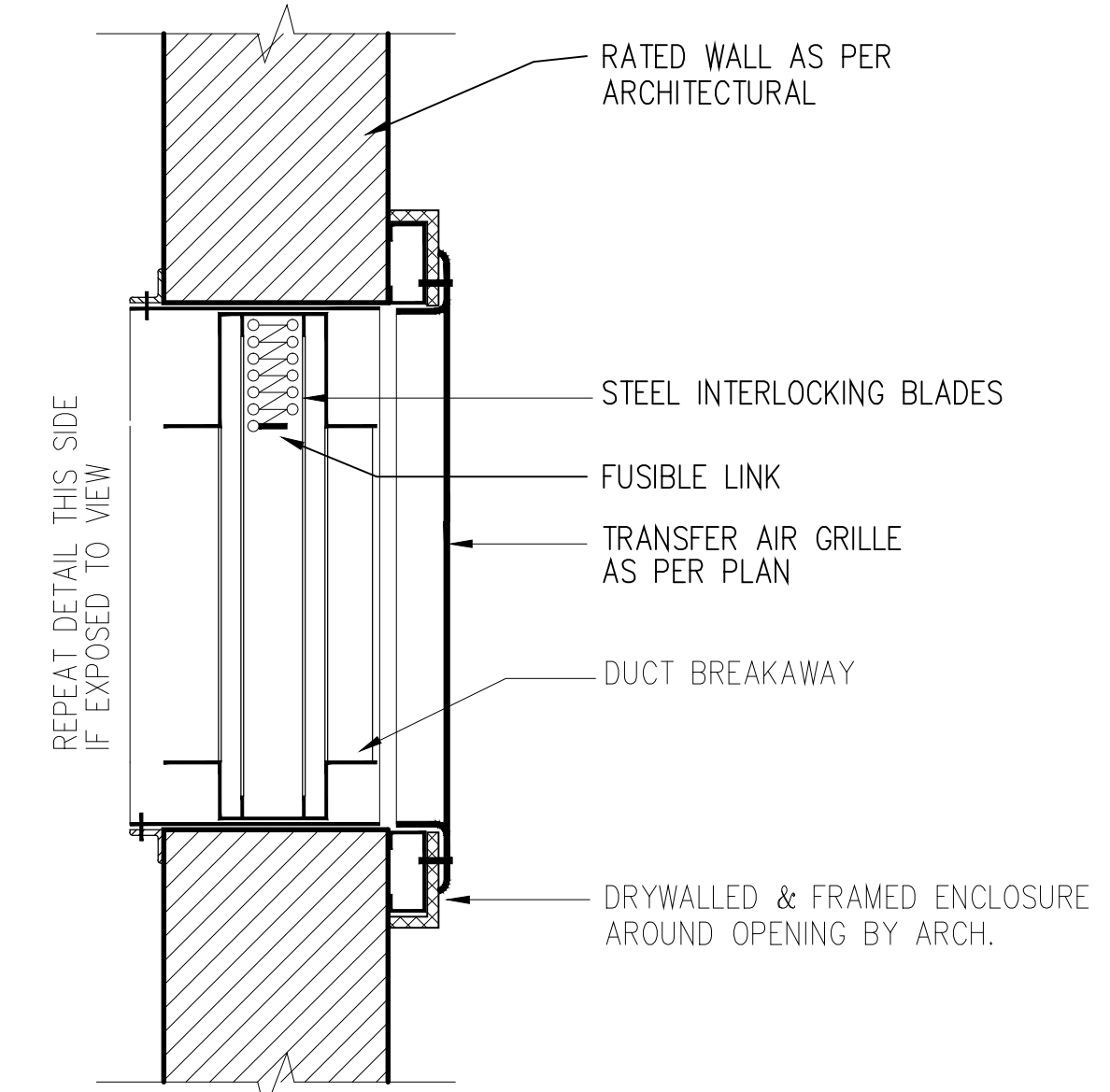
TRAPEZE HANGER DETAIL

N.T.S.



TRAPEZE HANGER SECTION

N.T.S.



RETURN AIR GRILLE AT FIRE DAMPER

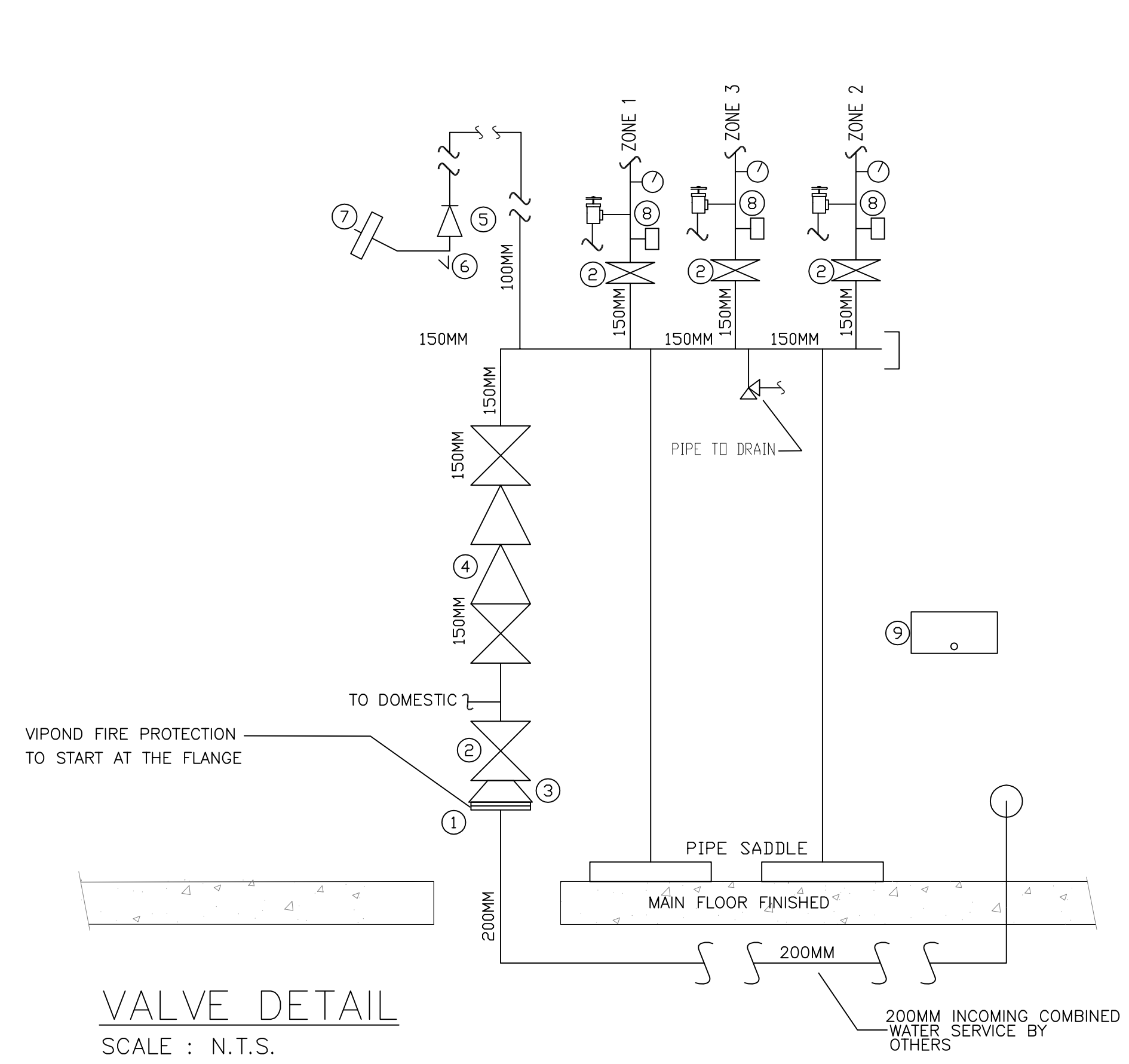
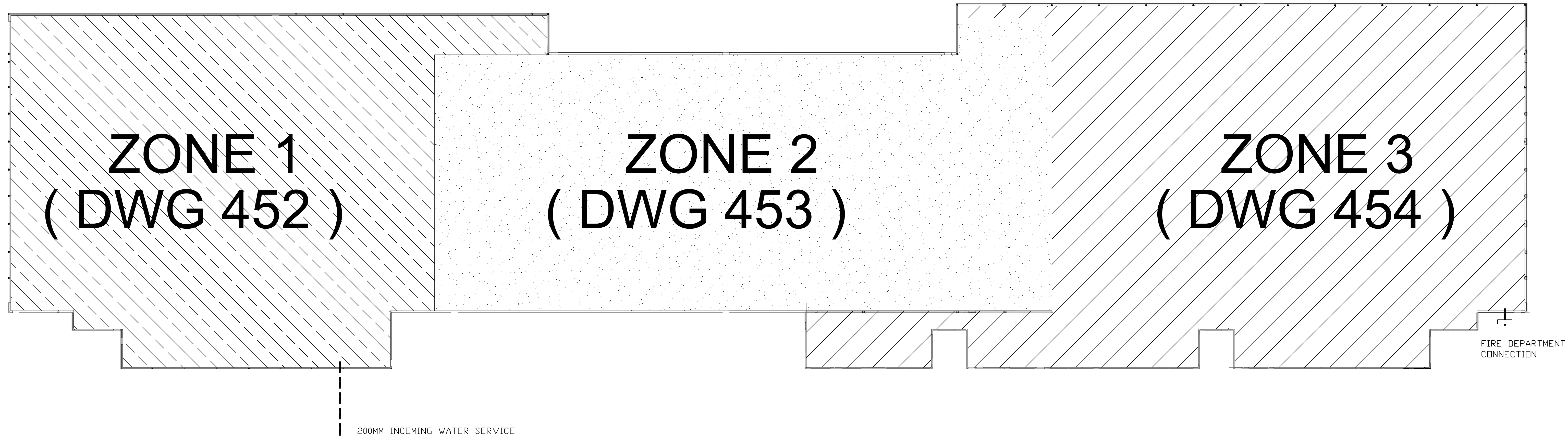
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MECHANICAL - DETAILS

Project number	2012021
Date	Feb. 27, 2013

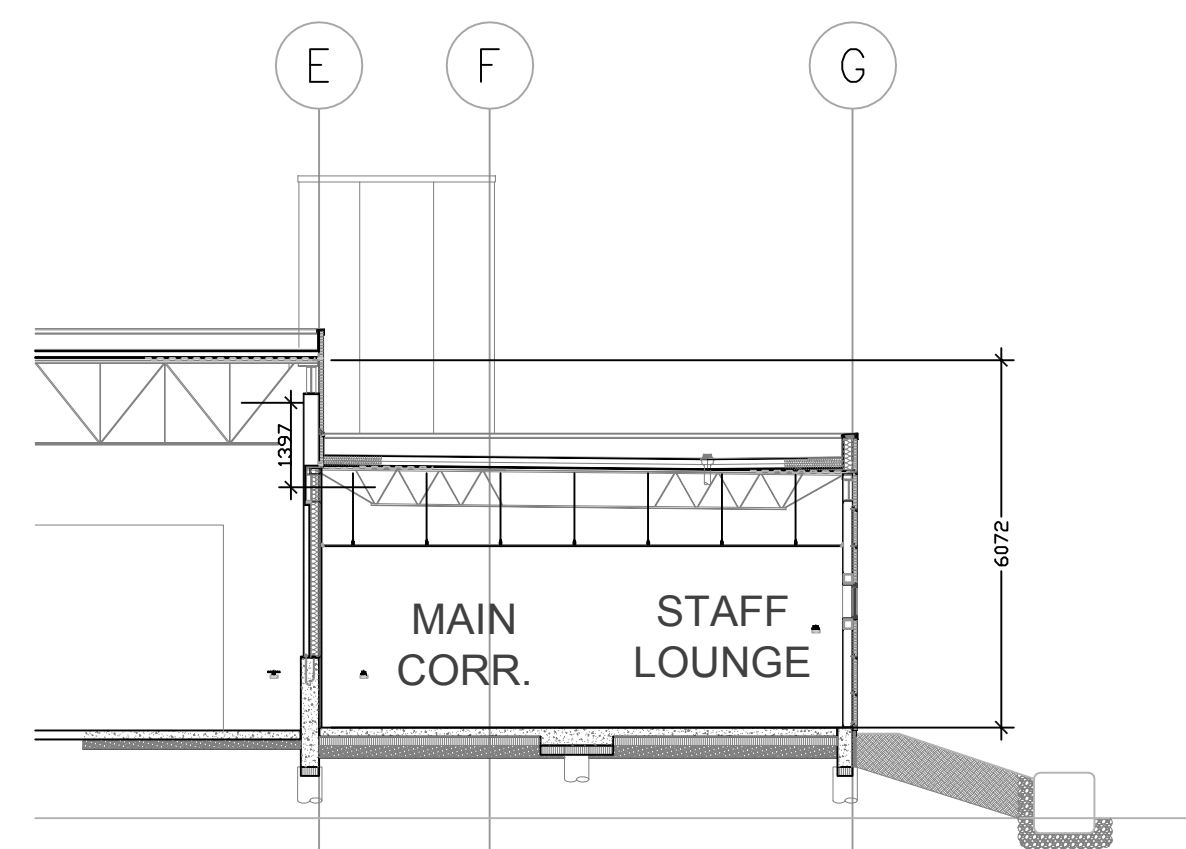
REVISION / ISSUED / PLOTTED	DATE
ISSUE FOR 6090 SUBMISSION	02-10-2012
REVISED FOR 100% SUBMISSION	12-12-2012
ISSUE FOR AS-BUILT	29-10-2013



VALVE DETAIL
SCALE : N.T.S.

LEGEND:

- ① 200MM FLANGE ADAPTER
- ② 150MM VICTAULIC MODEL 705 BUTTERFLY VALVE
- ③ 200x150MM VIC STYLE 450SS STAINLESS REDUCER
- ④ 150MM AMES BACKFLOW PREVENTER
- ⑤ 100MM VICTAULIC 717 CHECK VALVE
- ⑥ 12MM NFE BALL DRIP ON 100MM x 12MM MECHANICAL TEE
- ⑦ 100MM NATIONAL FIRE EQUIPMENT MODEL SE-LH, 30° ANGLE BODY STORZ CONNECTION C/W CAP, PLATE TO READ "AUTO SPRINKLER"
- ⑧ 150MM RISER MANIFOLD ASSEMBLY
- ⑨ RELIABLE 24 SPRINKLER SPARE CABINET



BUILDING SECTION
SCALE : 1:125



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architectural group
winnipeg MB regina SK victoria BC
204 942.0981 306 7211501 250 360.2106
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TRANSIT BUS PARKING & REPAIR GARAGE

600 Brandon Ave, Winnipeg, Manitoba

FIRE SPRINKLER LEGEND & KEY PLAN

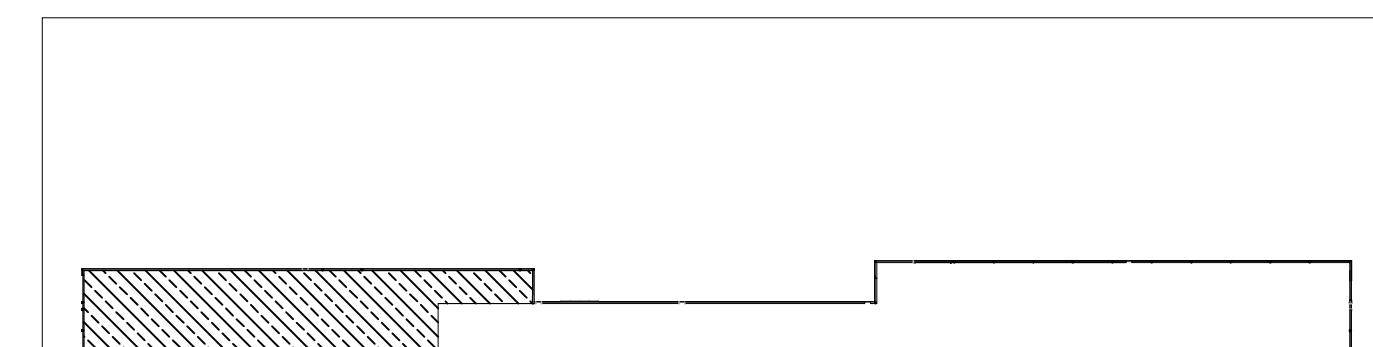
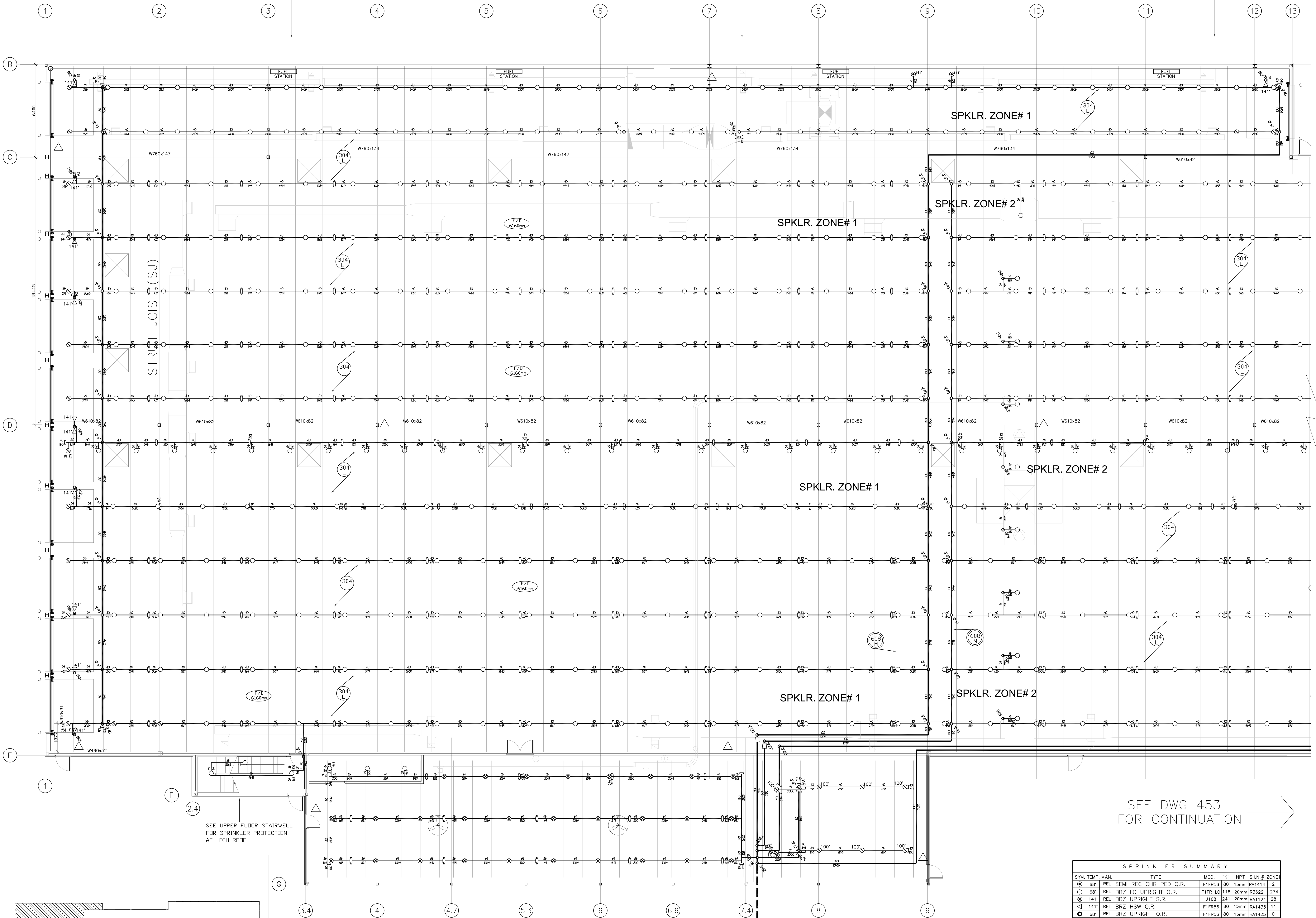
Project number	450
Date	DECEMBER 12, 2012
Drawn by	J.F.(VIPOND)
Checked by	C.P.

Scale N.T.S.

NOTE: ADEQUATE SPILL CONTAINMENT AROUND FUELLING AREA PROVIDED BY OTHERS FOR EACH FUEL STATION

ADEQUATE SPILL CONTAINMENT AROUND FUELLING AREA PROVIDED BY OTHERS FOR EACH FUEL STATION

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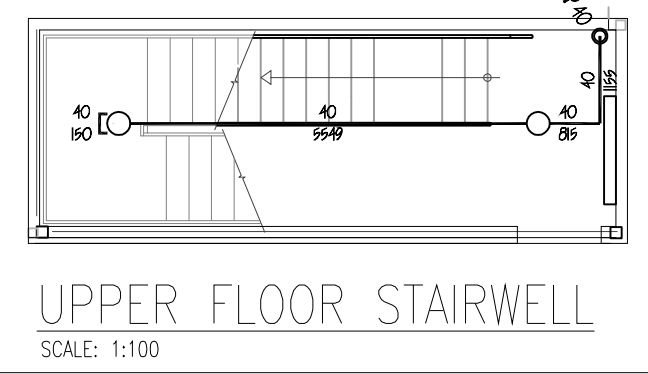


SEE UPPER FLOOR STAIRWELL FOR SPRINKLER PROTECTION AT HIGH ROOF

SEE DWG 453 FOR CONTINUATION

WATER SUPPLY	HYDRAULIC CALCULATION AREA 'D' SUMMARY	HYDRAULIC CALCULATION AREA 'E' SUMMARY
DATE OF TEST: SEPT. 2012 STATIC(BAR): 4.27 BAR RESIDUAL(BAR): 2.75 BAR FLOW (L.P.M): 8166 L.P.M TEST BY: CITY OF WINNIPEG	HAZARD: CLASS 4 STORAGE TO 20 FT. DENSITY: 19.9 (L/MN) SQ. M AREA OF OPERATION: 185.8 SQ. M HOSE ALLOWANCE: 1893 LPM MAX. AREA PER SPRINKLER: 9.9 SQ. M TOTAL DEMAND AT SOURCE: 6942.26 LPM PRESSURE REQUIRED AT SOURCE: 2.966 BAR PRESSURE AVAILABLE AT SOURCE: 3.396 BAR SAFETY MARGIN: 0.43 BAR MINIMUM HEAD PRESSURE: 0.483 BAR AT FLOW: 178 LPM FILE: 610694D.WXF	HAZARD: EXTRA HAZARD GROUP 1 DENSITY: 12.3 (L/MN) SQ. M AREA OF OPERATION: EXTEND 4.8M BEYOND ITS PERIMETER HOSE ALLOWANCE: 1893 LPM MAX. AREA PER SPRINKLER: 9.9 SQ. M TOTAL DEMAND AT SOURCE: 3001.48 LPM PRESSURE REQUIRED AT SOURCE: 3.096 BAR PRESSURE AVAILABLE AT SOURCE: 4.03 BAR SAFETY MARGIN: 0.94 BAR MINIMUM HEAD PRESSURE: 0.483 BAR AT FLOW: 110 LPM FILE: 610694E.WXF

NOTE:
SPRINKLER SYSTEMS TO BE INSTALLED AND SUPPLIED BY VIPOND FIRE PROTECTION
LEGEND:
△ : 10LB ABC ON BRACKET - AMOUNT OF B ON THIS FLOOR



SPRINKLER SUMMARY					
SYM.	TEMP.	MAN.	TYPE	MOD.	NPT. S.I.N. # ZONE
⊙	68°	REL	SEMI REC CHR PED Q.R.	F1FR56 80 15mm	RA1414 2
○	68°	REL	BRZ LO UPRIGHT Q.R.	F1FR LO 116 20mm	R3622 274
⊗	141°	REL	BRZ UPRIGHT S.R.	J168 241 20mm	RA1124 28
◁	141°	REL	BRZ HSW Q.R.	F1FR56 80 15mm	RA1435 11
⊙	68°	REL	BRZ UPRIGHT Q.R.	F1FR56 80 15mm	RA1425 0
⊙	141°	REL	BRZ UPRIGHT Q.R.	F1FR56 80 15mm	RA1425 25
PENDENT HEADS TO HAVE TWO PIECE ESCUTCHEON PLATES (MODEL GF1)					
TOTAL SPRINKLERS THIS SHEET					340
TOTAL SPRINKLERS THIS PROJECT					1226

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TRANSIT BUS PARKING & REPAIR GARAGE

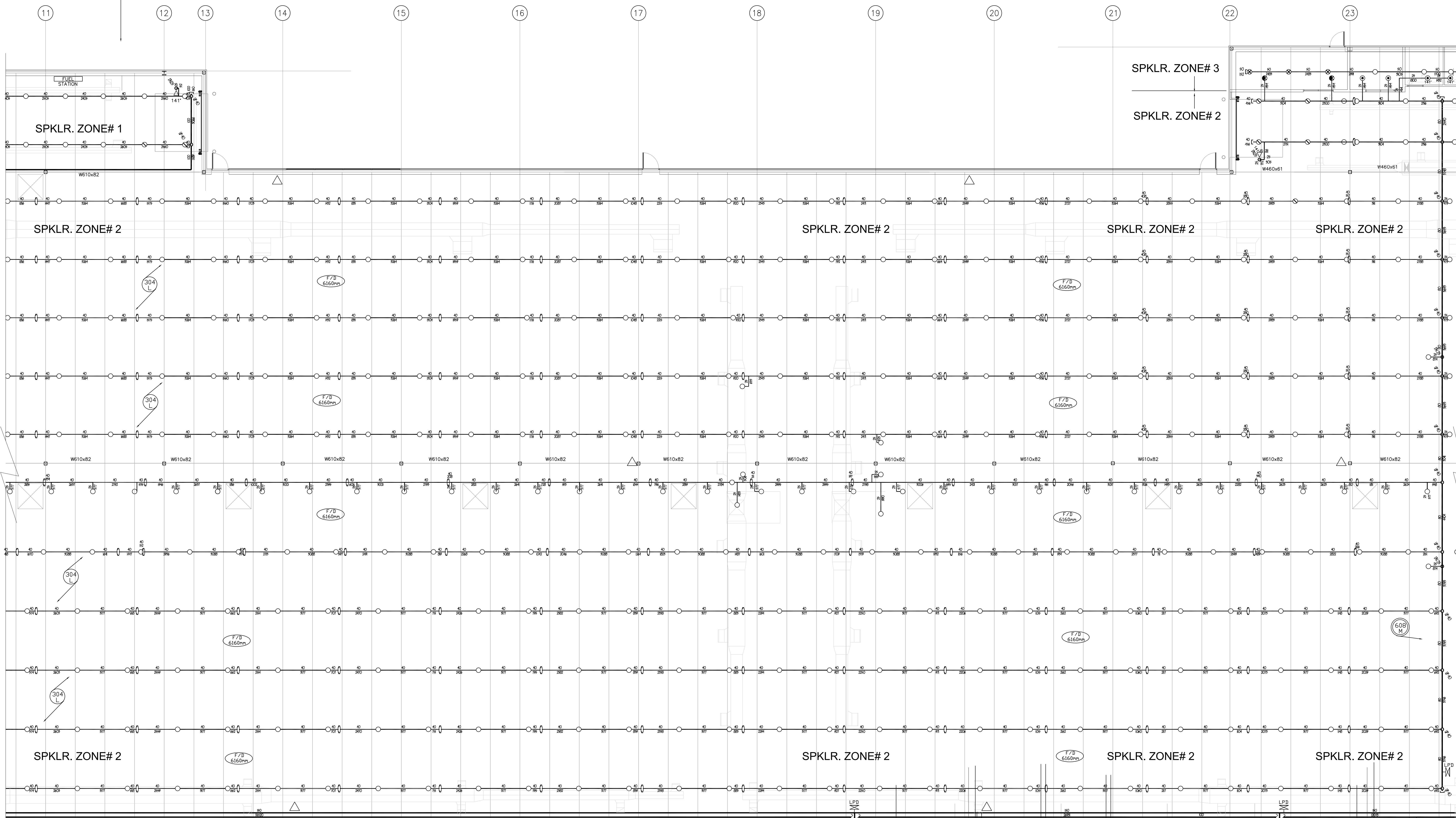
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SOUTH SIDE HIGH ROOF ZONE ONE FIRE SPRINKLER PLAN

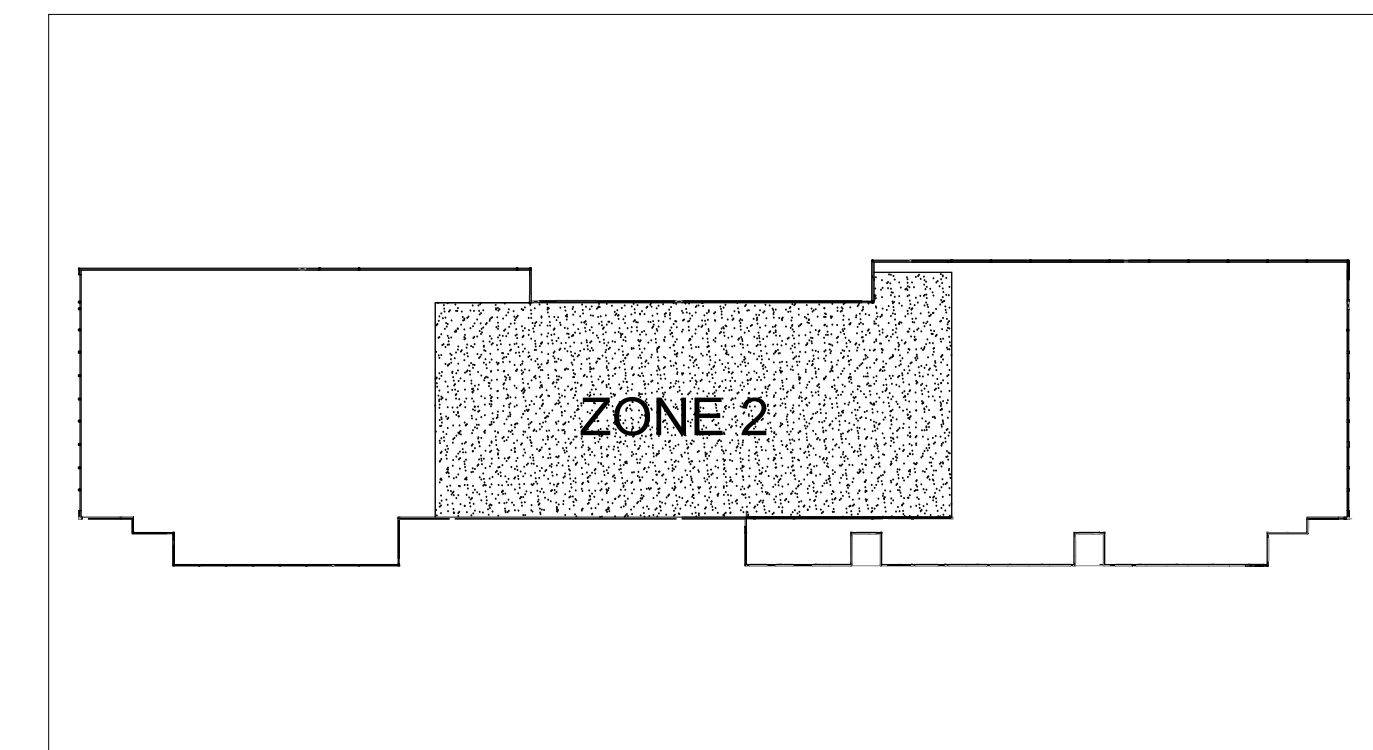
Project number	450
Date	DECEMBER 12, 2012
Drawn by	J.F.(VIPOND)
Checked by	C.P.

REVISION/ISSUED/PLOTTED	DATE
ISSUE FOR 60% SUBMISSION	02-10-2012
REVISED FOR 100% SUBMISSION	12-12-2012
ISSUE FOR AS-BUILT	29-10-2013

ADEQUATE SPILL CONTAINMENT AROUND FUELLING AREA PROVIDED BY OTHERS FOR EACH FUEL STATION

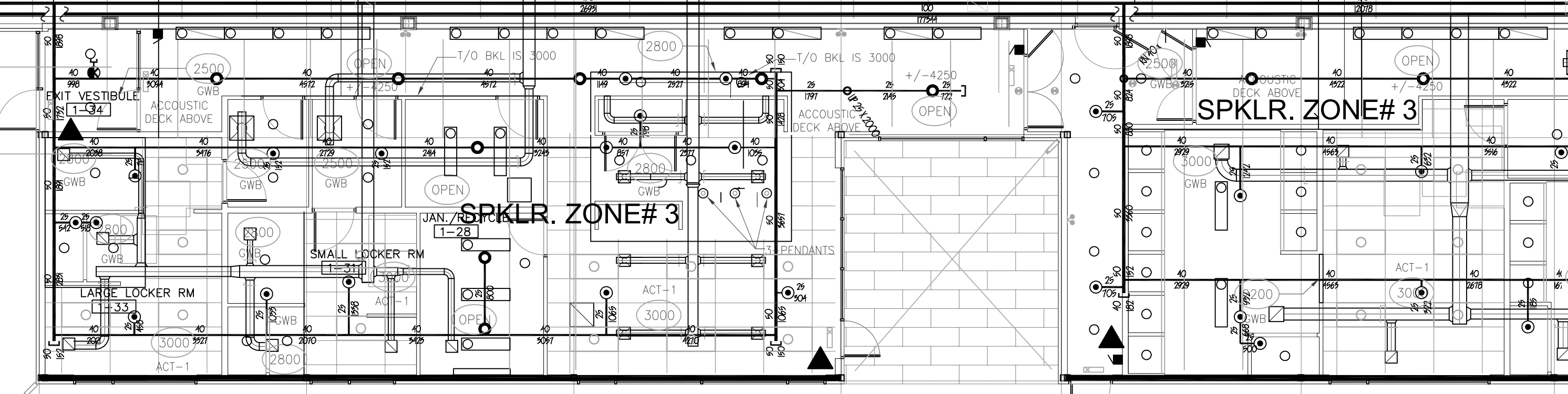


SEE DWG 452 FOR CONTINUATION



NOTE:
SPRINKLER SYSTEMS TO BE INSTALLED AND SUPPLIED BY VIPOND FIRE PROTECTION

SPRINKLER SUMMARY					
SYM.	TEMP.	MAN.	TYPE	MOD.	"K" NPT S.I.N.# ZONE2
○	68°	REL	SEMI REC CHR PED Q.R.	F1FR56 80	15mm RA1414 0
○	68°	REL	BRZ LO UPRIGHT Q.R.	F1FR LO 116	20mm R3622 390
⊗	141°	REL	BRZ UPRIGHT S.R.	J168 241	20mm RA1124 0
◁	68°	REL	BRZ HSW Q.R.	F1FR56 80	15mm RA1435 0
○	68°	REL	BRZ UPRIGHT Q.R.	F1FR56 80	15mm RA1425 0
○	141°	REL	BRZ UPRIGHT Q.R.	F1FR56 80	15mm RA1425 0
●	68°	REL	DRY CHR PEND F.Q.	F3OR 80	25mm R5714 0
PENDENT HEADS TO HAVE TWO PIECE ESCUTCHEON PLATES (MODEL GF1)					
TOTAL SPRINKLERS THIS SHEET 390					
TOTAL SPRINKLERS THIS PROJECT 1226					



SEE DWG 454 FOR CONTINUATION

- LEGEND:
- ▲ : 5LB ABC SEMI-RECESSED CABINET - AMOUNT OF 3 ON THIS FLOOR
 - △ : 10LB ABC ON BRACKET - AMOUNT OF 6 ON THIS FLOOR

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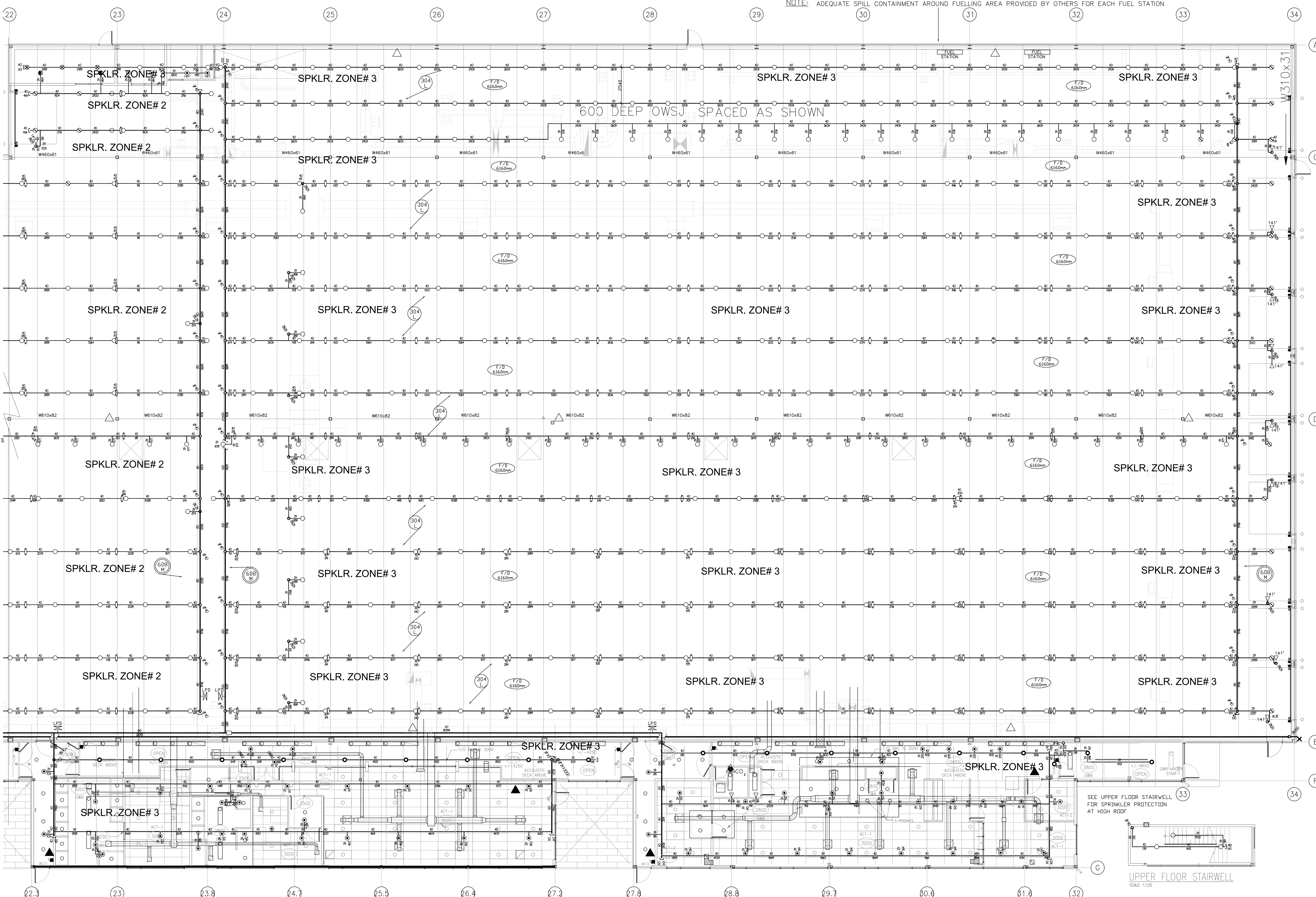
TRANSIT BUS PARKING & REPAIR GARAGE

600 Brandon Ave, Winnipeg, Manitoba

MIDDLE HIGH ROOF ZONE TWO FIRE SPRINKLER PLAN

Project number	450
Date	DECEMBER 12, 201
Drawn by	J.F. (VIPOND)
Checked by	C.P.

NOTE: ADEQUATE SPILL CONTAINMENT AROUND FUELLING AREA PROVIDED BY OTHERS FOR EACH FUEL STATION



SEE DWG 453 FOR CONTINUATION

WATER SUPPLY
 DATE OF TEST: SEPT. 2012
 STAT(C)BAR: 4.27 BAR
 RESIDUAL(BAR): 2.75 BAR
 FLOW(L.P.M): 8165 L.P.M
 TEST BY: CITY OF WINNIPEG

HYDRAULIC CALCULATION AREA 'A' SUMMARY
 HAZARD: EXTRA HAZARD GROUP 1
 DENSITY: 12.3 (L/MIN) SQ. M.
 AREA OF OPERATION: EXTEND 4.8M BEYOND ITS PERIMETER
 HOSE ALLOWANCE: 1803 LPM
 MAX. AREA PER SPRINKLER: 9.5 SQ. M.
 TOTAL DEMAND AT SOURCE: 3433.5 LPM
 PRESSURE REQUIRED AT SOURCE: 3.429 BAR
 PRESSURE AVAILABLE AT SOURCE: 4.03 BAR
 SAFETY MARGIN: 0.53 BAR
 MINIMUM HEAD PRESSURE: 0.483 BAR
 AT FLOW: 110 LPM
 FILE: 610694A.WXF

HYDRAULIC CALCULATION AREA 'B' SUMMARY
 HAZARD: CLASS 3B FLAMMABLE LIQUID
 DENSITY: 24.4 (L/MIN) SQ. M.
 AREA OF OPERATION: OIL STORAGE ROOM
 HOSE ALLOWANCE: 1803 LPM
 MAX. AREA PER SPRINKLER: 5.6 SQ. M.
 TOTAL DEMAND AT SOURCE: 2328.48 LPM
 PRESSURE REQUIRED AT SOURCE: 1.746 BAR
 PRESSURE AVAILABLE AT SOURCE: 2.406 BAR
 SAFETY MARGIN: 0.66 BAR
 MINIMUM HEAD PRESSURE: 0.483 BAR
 AT FLOW: 145 LPM
 FILE: 610694B.WXF

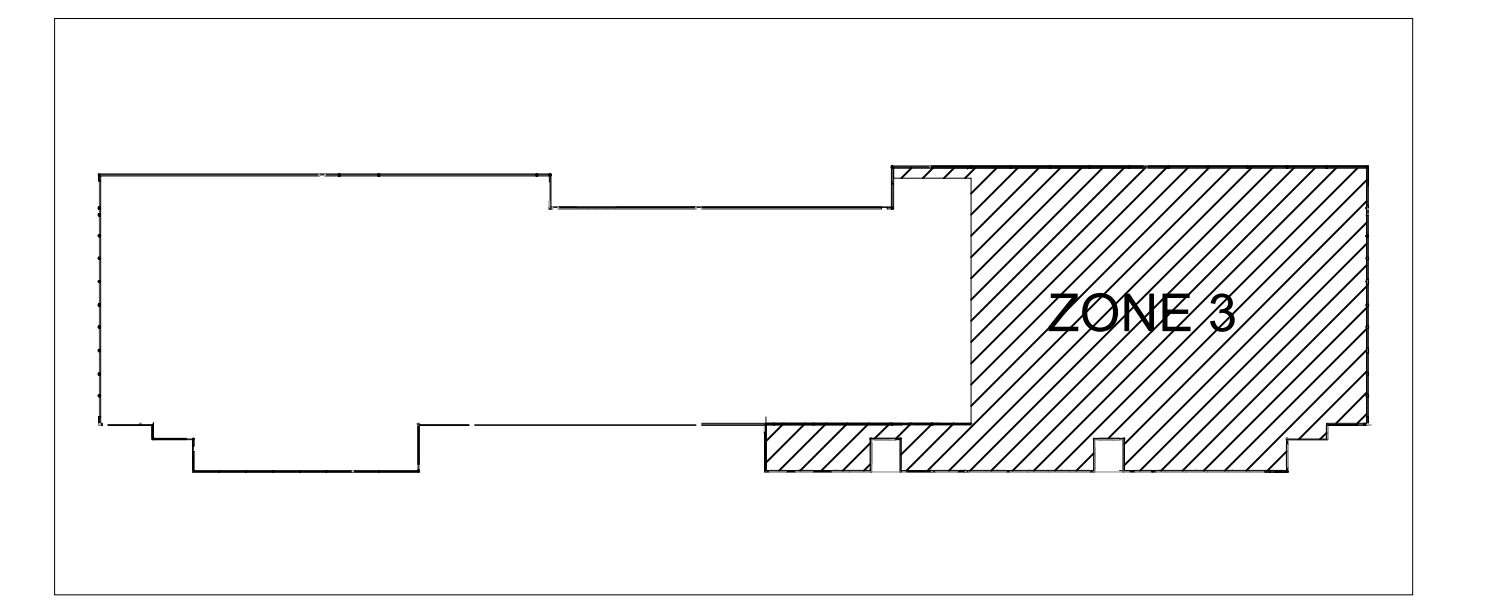
HYDRAULIC CALCULATION AREA 'C' SUMMARY
 HAZARD: ORDINARY HAZARD GROUP 2
 DENSITY: 8.2 (L/MIN) SQ. M.
 AREA OF OPERATION: 83 SQ. M.
 HOSE ALLOWANCE: 947 LPM
 MAX. AREA PER SPRINKLER: 12 SQ. M.
 TOTAL DEMAND AT SOURCE: 1876.65 LPM
 PRESSURE REQUIRED AT SOURCE: 2.419 BAR
 PRESSURE AVAILABLE AT SOURCE: 4.169 BAR
 SAFETY MARGIN: 1.75 BAR
 MINIMUM HEAD PRESSURE: 0.483 BAR
 AT FLOW: 98 LPM
 FILE: 610694C.WXF

LEGEND:
 ▲ : 5LB ABC SEMI-RECESSED CABINET - AMOUNT OF 3 ON THIS FLOOR
 ▲ CO2 : 5LB CARBON DIOXIDE - AMOUNT OF 1 ON THIS FLOOR
 ▲ : 10LB ABC ON BRACKET - AMOUNT OF 6 ON THIS FLOOR

NOTE:
 SPRINKLER SYSTEMS TO BE INSTALLED
 AND SUPPLIED BY VIPOND FIRE PROTECTION

SPRINKLER SUMMARY

SYM.	TEMP.	MAN.	TYPE	MOD.	"K"	NPT	S.I.N.#	ZONE#
○	68°	REL	SEMI REC CHR PED Q.R.	F1FR56	80	15mm	RA1414	77
○	68°	REL	BRZ LO UPRIGHT Q.R.	F1FR	LO 116	20mm	R3622	359
⊗	141°	REL	BRZ UPRIGHT S.R.	J168	241	20mm	RA1124	3
<	68°	REL	BRZ HSW Q.R.	F1FR56	80	15mm	RA1435	12
○	68°	REL	BRZ UPRIGHT Q.R.	F1FR56	80	15mm	RA1425	26
○	141°	REL	BRZ UPRIGHT Q.R.	F1FR56	80	15mm	RA1425	16
●	68°	REL	DRY CHR PEND F.Q.	F3OR	80	25mm	R5714	3
PENDENT HEADS TO HAVE TWO PIECE ESCUTCHEON PLATES (MODEL GF1)								
TOTAL SPRINKLERS THIS SHEET 498								
TOTAL SPRINKLERS THIS PROJECT 1226								



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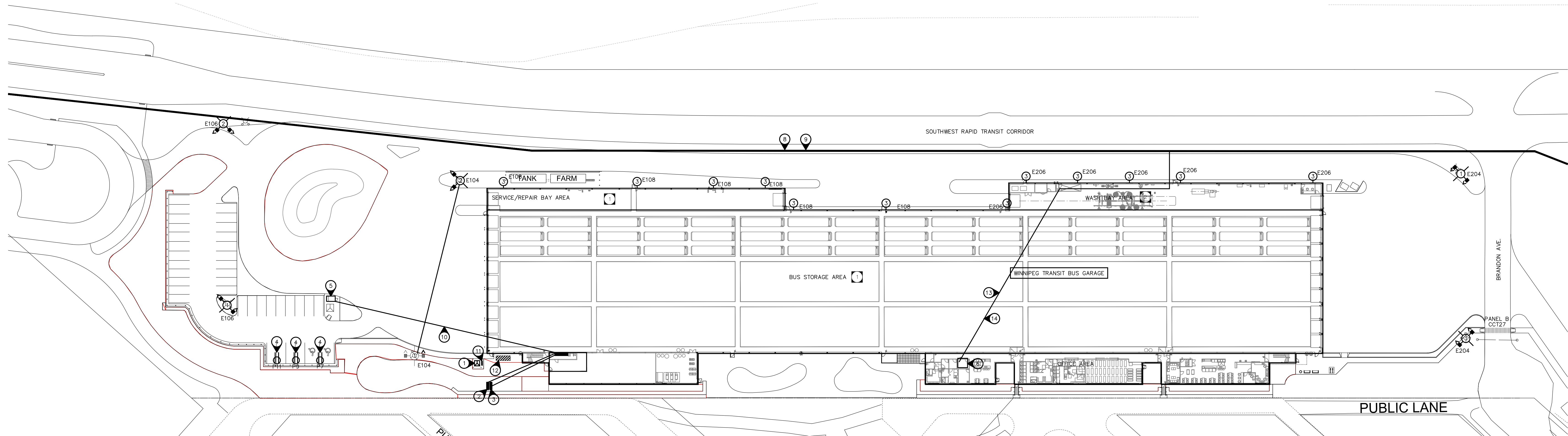
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TRANSIT BUS PARKING & REPAIR GARAGE

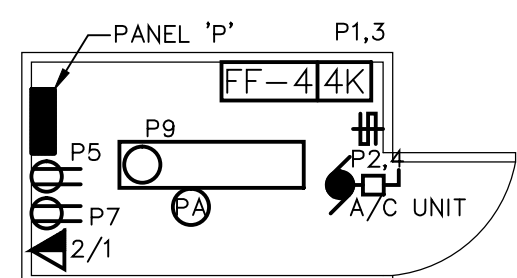
600 Brandon Ave, Winnipeg, Manitoba

NORTH SIDE HIGH ROOF ZONE THREE FIRE SPRINKLER PLAN

Project number 450
 Date DECEMBER 12, 2013
 Drawn by J.F.(VIPOND)
 Checked by C.P.



1 ELECTRICAL - SITE PLAN
SCALE: 1/500



2 ELECTRICAL - BUS ASSIGNMENT KIOSK
SCALE: 1/50

SPECIFIC ELECTRICAL NOTES

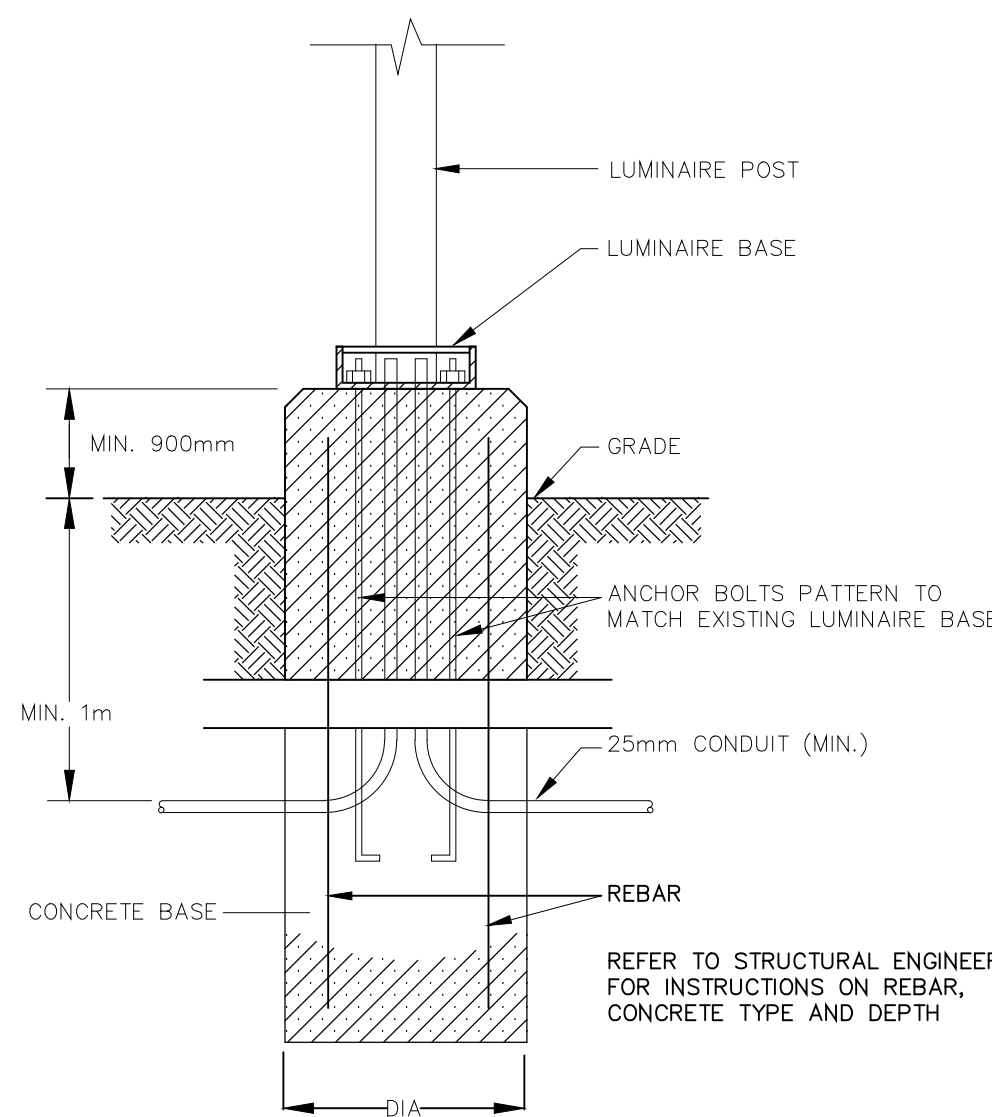
- APPROXIMATE LOCATION OF MANITOBA HYDRO TRANSFORMER. PROVIDE GROUND LOOPING AROUND TRANSFORMER PAD. PAY ALL UTILITY CONTRIBUTION CHARGES. PAD BY MANITOBA HYDRO.
- M/S SERVICE PEDESTAL. COORDINATE LOCATION WITH MTS. PROVIDE 4" PVC C/W PULLSTRING FROM PEDESTAL TO MAIN TELEPHONE PANEL. PROVIDE BURIED PVC PULL PITS EVERY 60m (C/W DRAINAGE AND WATER TIGHT BOLT U/G COVERS). COORDINATE INSTALLATION OF TELEPHONE LINES TO FACILITATE VOICE REQUIREMENTS.
- SHAW CABLE PEDESTAL. COORDINATE LOCATION WITH SHAW. PROVIDE 4" PVC C/W PULLSTRING FROM PEDESTAL TO MAIN CATV PANEL. PROVIDE BURIED PVC PULL PITS EVERY 60m (C/W DRAINAGE AND WATER TIGHT BOLT U/G COVERS). COORDINATE INSTALLATION OF CATV LINES WITH SHAW TO FACILITATE CATV REQUIREMENTS.
- CAR RECEPTACLE C/W IPLC CONTROL MOUNTED ON FENCE (TYPICAL). CAR RECEPTACLES ARE TO BE PROGRAMMED TO LIMIT CURRENT DRAW TO BLOCK HEATER ONLY.
- BUS ASSIGNMENT KIOSK. PROVIDE LIGHTING, POWER AND SYSTEM AS INDICATED ON 2/500 ELECTRICAL - BUS ASSIGNMENT KIOSK DETAIL. ALL ELECTRICAL WITHIN BUS KIOSK INCLUDING PANEL IS INTEGRAL TO THE BUS KIOSK PACKAGE.
- APPROXIMATE LOCATION OF MAIN BUILDING DATA ROOM.
- WIRE ALL TANK FARM EQUIPMENT AS REQUIRED. REFER TO ELECTRICAL DRAWING 521 FOR DETAILS.
- APPROXIMATE LOCATION OF EXISTING COMMUNICATIONS RACEWAY. CONNECT BUILDING TO FIBRE NETWORK "EAST END". PROVIDE CONNECTION TO 421 OSBORNE BUILDING VIA A ARMORED, ALL-DIELECTRIC, LOOSE TUBE, GEL FREE DRY BUFFER SINGLE MODE FIBRE OPTIC CABLE (CORNING SMF28e). RUN A FULL 24-STRAND CABLE TERMINATED IN A FIBRE SPLICER TRAY WITH SC TYPE CONNECTORS.
- APPROXIMATE LOCATION OF EXISTING COMMUNICATIONS RACEWAY. CONNECT BUILDING TO FIBRE NETWORK "WEST END". TRANSIT CORRIDORS FOR ROUGE STATION TO HAVE FIBRE CONNECTIVITY TO THE CITY'S FIBRE NETWORK. PROVIDE A FIBRE CONNECTION TO THE COMMUNICATIONS PEDESTAL AT TRANSIT'S CORRIDOR FOR ROUGE STATION FOR FUTURE REDUNDANT LINK INTO THE CITY'S FIBRE NETWORK. UTILIZE SINGLE MODE FIBRE (CORNING SMF28e) 24-STRAND CABLE TERMINATED IN A FIBRE SPLICER TRAY WITH SC TYPE CONNECTORS.
- RUN 3#6 RW90 CU TECK BURIED FROM MAIN DISTRIBUTION TO PANEL "P" LOCATED IN BUS ASSIGNMENT KIOSK.
- APPROXIMATE LOCATION OF 1200A-347/600V-3PH-4W WEATHERPROOF PAD-MOUNTED G.S.I.E. CONFIRM LOCATIONS WITH MANITOBA HYDRO.
- 18KW GENERATOR IN WEATHERPROOF ENCLOSURE. NO LIFE SAFETY LOADS ARE TO BE FED FROM GENERATOR. PRITCHARD INDUSTRIAL MODEL #R02CZF AND ASSOCIATED OPTIONS AND ACCESSORIES.
- PROVIDE CONNECTION TO FIBRE NETWORK "EAST END". REFER TO SPECIFIC ELECTRICAL NOTE #8.
- PROVIDE CONNECTION TO FIBRE NETWORK "WEST END". REFER TO SPECIFIC ELECTRICAL NOTE #9.

GENERAL ELECTRICAL NOTES:

- PROVIDE 10% SPARE LAMPS FOR EACH LUMINAIRE LAMP TYPE AND A MINIMUM OF TWO(2).

WASH BAY AND HAZARDOUS LOCATION ELECTRICAL NOTES

- ALL WIRING IN THIS AREA TO COMPLY WITH C.E.C. 20-100 TO 20-114. AREA FROM FINISHED FLOOR TO 50mm ABOVE FINISHED FLOOR TO BE HAZARDOUS AREA CLASS 1. ZONE 2. AREA BELOW FLOOR TO BE HAZARDOUS AREA CLASS 1 ZONE 1.
- ALL WIRING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN WASH BAY TO BE LENSED. CONFIRM PRIOR TO ORDERING.



LUMINAIRE BASE DETAIL
N.T.S.

NOTE: CONCRETE DIMENSIONS AND TYPE TO BE SPECIFIED BY STRUCTURAL ENGINEER AND BASED ON AVAILABLE SOIL CONDITIONS.

EMERGENCY LIGHTING AND SIGNAGE

- CONDUCTORS SIZED TO MANUFACTURERS RECOMMENDATIONS. MAXIMUM 5% VOLTAGE DROP.
- WIRE AND CONNECT DC TO ALL COMPONENTS.
- PROVIDE 30 MINUTE CAPACITY UNDER FULL LOAD.
- INTERLOCK WITH NORMAL LIGHTING CIRCUIT TO ACTIVATE EMERGENCY LIGHTING UPON LOSS OF NORMAL LIGHTING.
- WIRE TO LOCAL 347V LIGHTING CIRCUIT.

SYMBOL SCHEDULE

- Fluorescent luminaire. "B1-A" denotes panel circuit No. and switch.
- Night light fluorescent luminaire.
- Ceiling mounted luminaire.
- Wall mounted luminaire. "A" denotes type.
- Post light.
- Single pole switch.
- Single pole switches in multiple.
- Three way switch.
- Single pole switch c/w pilot light.
- Dimmer switch c/w separate neutral. Wattage to match circuit.
- Duplex receptacle.
- Duplex receptacle mounted above counter level. (See architectural elevations.)
- Duplex receptacle mounted on side of counter.
- Duplex receptacle weather proof.
- Ground fault duplex receptacle.
- Duplex receptacle on separate circuit. Provide tamocoid label indicating "SC".
- 15A-2P split wired receptacle.
- Microwave outlet above counter. Verify location before installation.
- Duplex receptacle mounted at high level.
- Duplex receptacle c/w isolated ground. (Max 4 receptacles on a 15A-1P circuit.)
- 20A T-slot duplex receptacle.
- Telephone outlet c/w cover plate. Run one(1) CAT6 cable in 3/4" conduit. "O/1" denotes no data and one(1) voice.
- Combination voice/data outlet c/w cover plate. Run CAT6 cable in 3/4" conduit as denoted to nearest data room. "2/1" denotes two(2) data and one(1) voice.
- CATV outlet c/w cover plate. Run one(1) coax cable 3/4" conduit to accessible ceiling space or crawspace.
- Fireguard backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the telephone utility.
- Fireguard backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the CATV utility.
- Motor. Refer to mechanical for exact location.
- Disconnect switch to suit application. By Div. 16.
- Magnetic door hold open. Tie to fire alarm to release upon fire condition.
- Junction box.
- Photocell by Div. 16.
- Emergency double/triple head fixture c/w battery back-up. Aimitte EBST-12-072-2MD35WQ-WHT. Heads to be 20W M16 in office areas Aimitte EBST-12144-240-200-WHT-347V.
- LED pictogram egress sign c/w battery back-up. Aimitte Aimitte RPST-U-M-WHT-Bat. Egress signs mounted in garage area to be mounted below joist level for optimum visibility.
- Combination exit sign/emergency double head fixture c/w battery back-up. Aimitte CSR12-72-2MD35WQ-WHT. Combination egress signs to be mounted in office area only.

FF-445

- Electric force flow heater c/w built in thermostat unless otherwise indicated. "FF-4" denotes type. "AK" denotes wattage. See heating schedule for details.
- Electric heater. "C" denotes type, see electric heating schedule. "1000" denotes watts. Heater to be controlled by remote thermostat. Provide low voltage relays if required. Refer to mechanical for details.
- Pushbutton to control buzzer by Div. 16. (WP denotes weather proof).
- Chime c/w power, L.V. transformer relay, wiring, etc. by Div. 16. (Verify location before installation).
- Time clock by Div. 16.
- Ceiling mounted occupancy sensor. Sensorswitch.
- Security system card access - rough-in only.
- Security system CCTV camera. PELCO Camclosure c/w all accessories. Provide one(1) CAT6 cable to DVR located in Dispatch Office. Provide one(1) 18/2 to nearest available 120V circuit.
- Carbon monoxide detector. Tie into fire alarm system.
- Public Address system speaker. TOA F Series. Run speaker wiring back to stereo amplifier indicated on drawing 523.
- Public Address system horn. TOA SC Series. "WP" denotes weatherproof.

0410000

AS-BUILT DRAWINGS

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TRANSIT BUS PARKING & SERVICE GARAGE

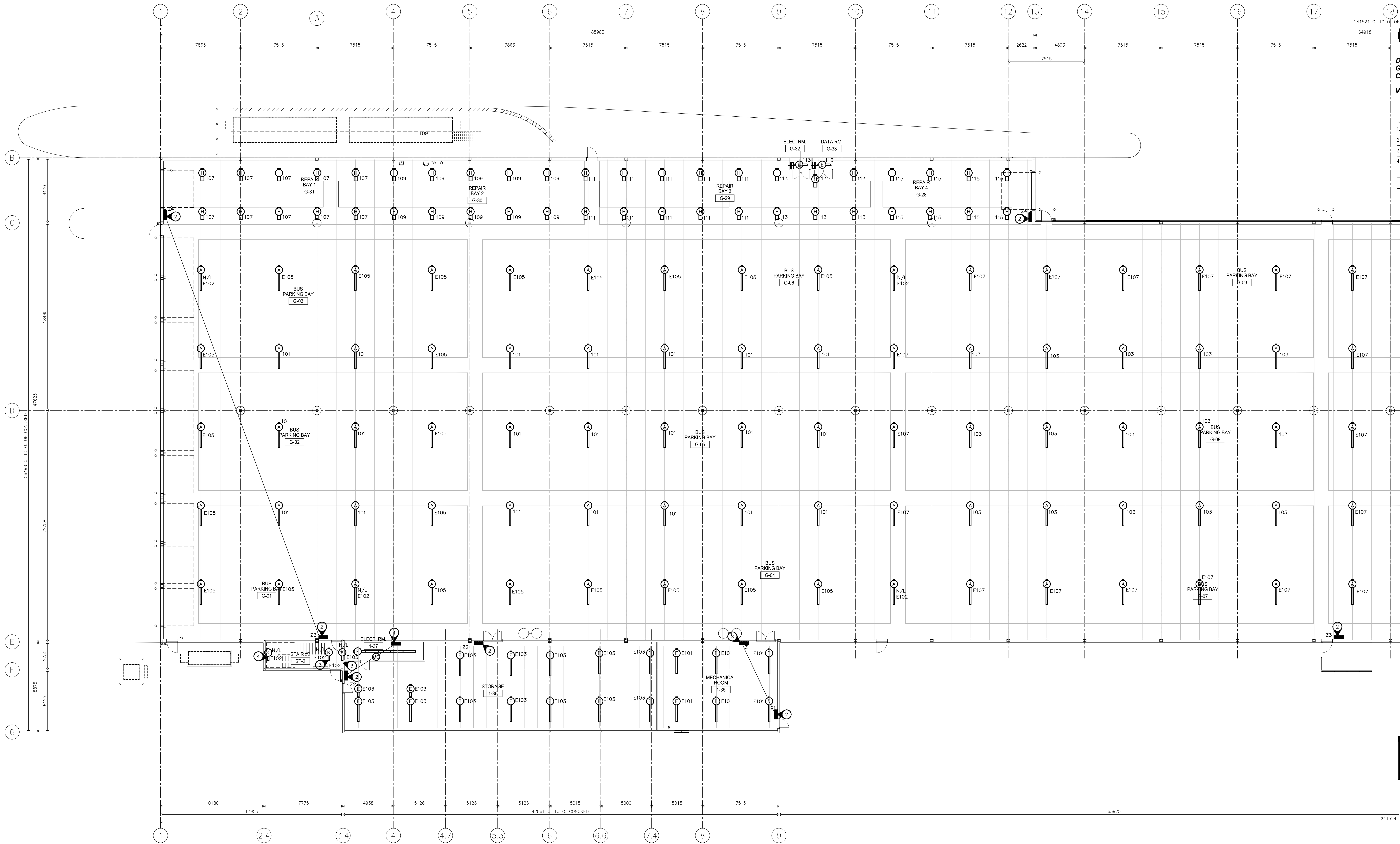
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE

ELECTRICAL - SITE PLAN

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

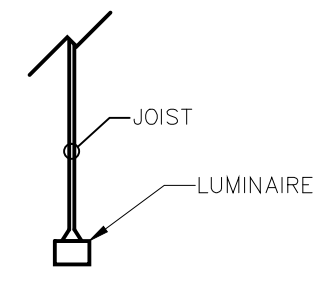
REVISION / ISSUED / PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
2. GENERAL REVISIONS	2013-04-09
3. GENERAL REVISIONS	2013-04-19
4. AS BUILT	2014-01-20



1
510 MAIN FLOOR - LIGHTING LAYOUT (SOUTH)
SCALE: 1/150

ZONE	PANELS	CIRCUIT #	DESCRIPTION
1	E100	E101	MECH ROOM
2	E100	E103	STORAGE / ELEC ROOM
3	100, 200, E100, E200	101, 203, E105, E107, E201, E203	BUS PARKING GARAGE
4	100	107, 109, 111, 113, 115	REPAIR BAYS
5	200	211, 213, 215, 217	BUS WASH
6	200	218, 216	OFFICE AREA
7	E100, E200	E104, E106, E108, E204, E206	EXTERIOR LIGHTING
8	200	219	MULTIPURPOSE ROOM

- SPECIFIC ELECTRICAL NOTES**
- ① APPROXIMATE LOCATION OF MAIN LOW VOLTAGE LIGHTING CONTROL PANEL.
 - ② LOW VOLTAGE SWITCH LOCATION 'Z' NOTATION DENOTES ZONE (EG. 'Z1' DENOTES ZONE 1).
 - ③ WALL MOUNTED AT 2.2m A.F.F. OF LANDING.
 - ④ WALL MOUNTED AT 2.2m A.F.F. OF EACH OF TWO(2) LANDINGS.



TYPICAL TYPE 'A' LUMINAIRE MOUNTING DETAIL
SCALE: N.T.S.

GARAGE/REPAIR/WASH AREA LUMINAIRE SCHEDULE			
TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS
A	8' FLUORESCENT LUMINAIRE	LITHONIA FAL4-54L	1-54W T5HO
D	1'x4' FLUORESCENT LUMINAIRE	LITHONIA IBZ-454	4-54W T5HO
E	4' FLUORESCENT STRIP	LITHONIA Z-1-54TSHO-SMR	1-54W T5
H	1'x4' FLUORESCENT LUMINAIRE	LITHONIA FHE-454L-ND-1/4	4-54W T5HO
K	4' FLUORESCENT LUMINAIRE	LITHONIA WC-2-32-GEB10S	2-32W T8

LUMINAIRE SCHEDULE NOTES:
 1. ALL FLUORESCENT BALLAST TO BE ELECTRONIC, MB HYDRO "POWER SMART" APPROVED.
 2. ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, UNLESS OTHERWISE NOTED.
 3. TYPE 'A' LUMINAIRE SUSPENDED ON JOIST, REFER TO DETAIL.

AS-BUILT DRAWINGS
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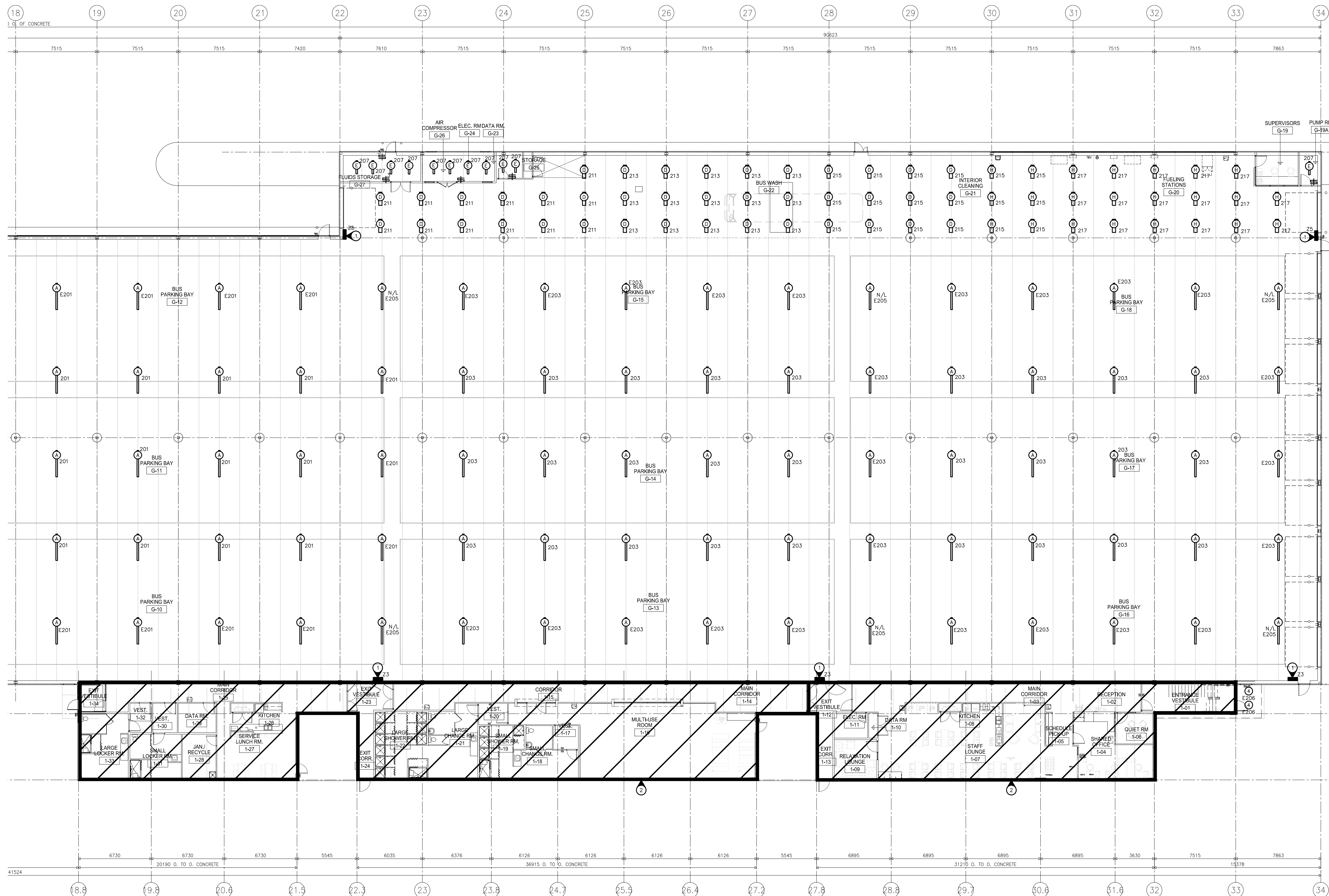
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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - LIGHTING LAYOUT SOUTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM



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4. AS BUILT	2014-01-20

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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - LIGHTING LAYOUT
NORTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

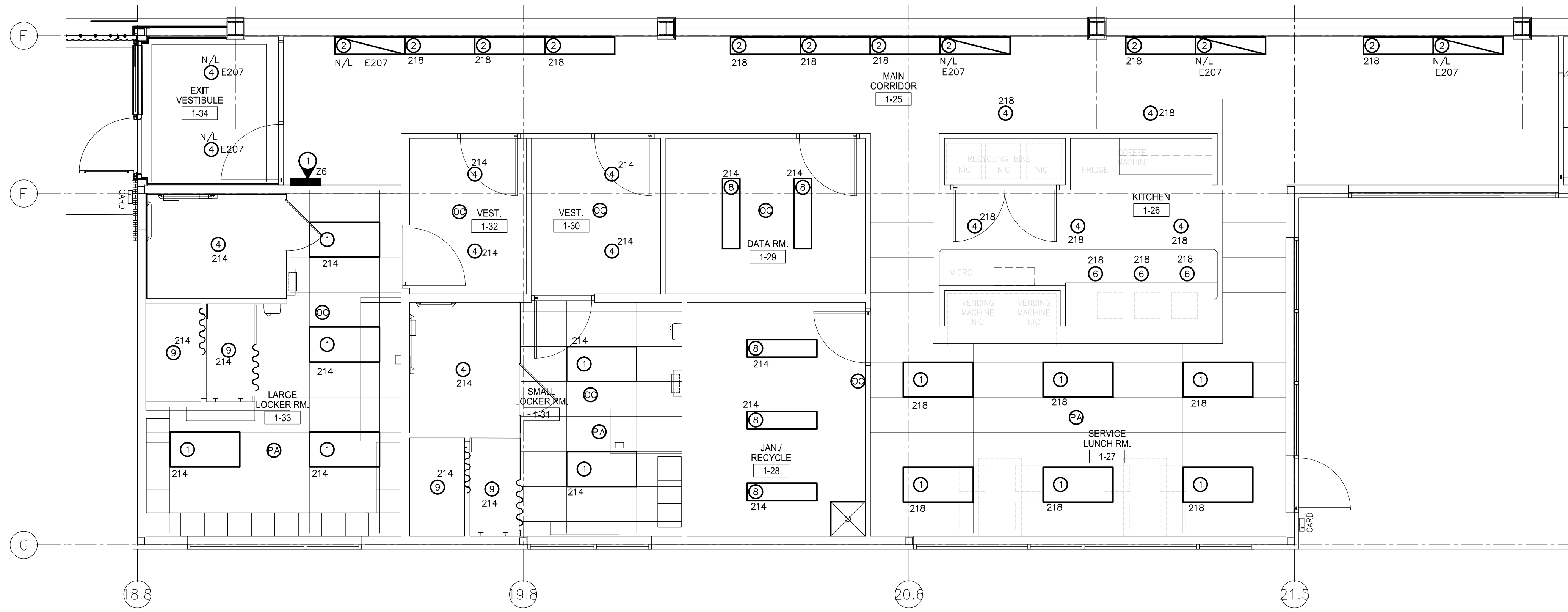
1
511
MAIN FLOOR - LIGHTING LAYOUT (NORTH)
SCALE: 1/150

- SPECIFIC ELECTRICAL NOTES**
- ① LOW VOLTAGE SWITCH LOCATION "2" NOTATION DENOTES ZONE (EG. '21' DENOTES ZONE 1).
 - ② REFER TO ELECTRICAL DRAWING 512 FOR LIGHTING IN THIS AREA.

OFFICE AREA LUMINAIRE SCHEDULE			
TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS
1	2"x4" FLUORESCENT LUMINAIRE RECESSED IN T-BAR	LITHONIA 20TB-3-32-A12-1/3-ADDE	3-32W T8
2	4" FLUORESCENT WALL MOUNTED	PEERLESS BR99-1-54T5HO-SSH	1-15 HO
3	4" FLUORESCENT LUMINAIRE	AIMLITE VP4-2X32T8	2-32W T8
4	6" LED DOWNLIGHT	GOTHAM ALED-35/18-6AR	1-18.4W LED
5	6" LED DOWNLIGHT	GOTHAM ALED-35/18-6AR	1-27W LED
6	DECORATIVE PENDANT	EUREKA 4234-WP-CF-1.32-120-AC-60-RC-CHR-WH	1-26W DTT
7	4" FLUORESCENT WRAP SURFACE MOUNTED	LITHONIA WC-2-32-MVOLT-CSA	2-32W T8
8	4" FLUORESCENT STRIP SURFACE MOUNTED C/W WIREGUARD	LITHONIA 2-232-MVOLT-CSA-WG	2-32W T8
9	VAPOURPROOF DOWNLIGHT RECESSED	LITHONIA LFN6-2/26-F6L54-347-CSA	2-26W DTT

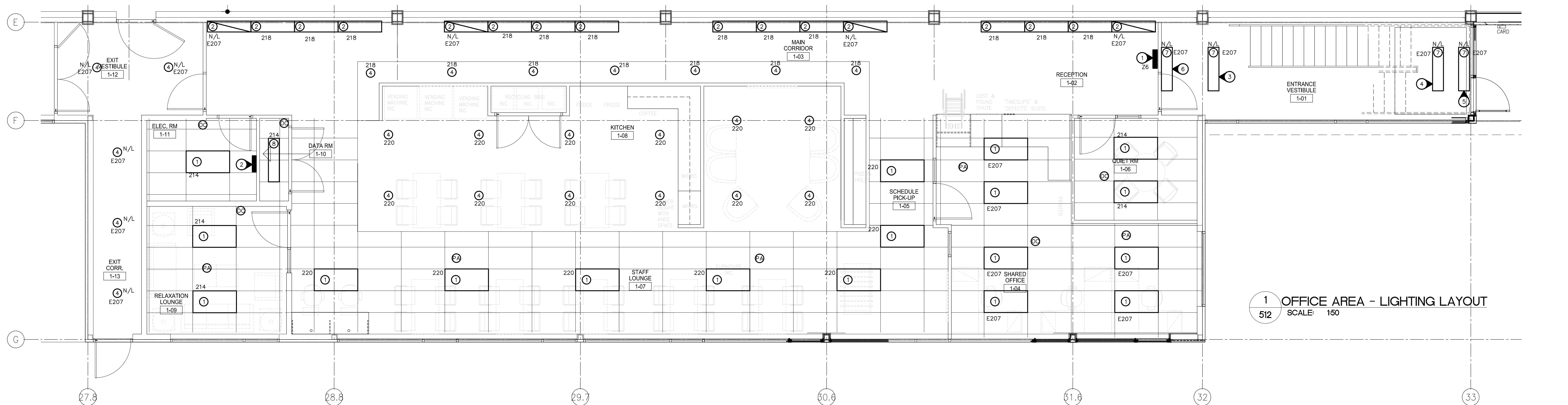
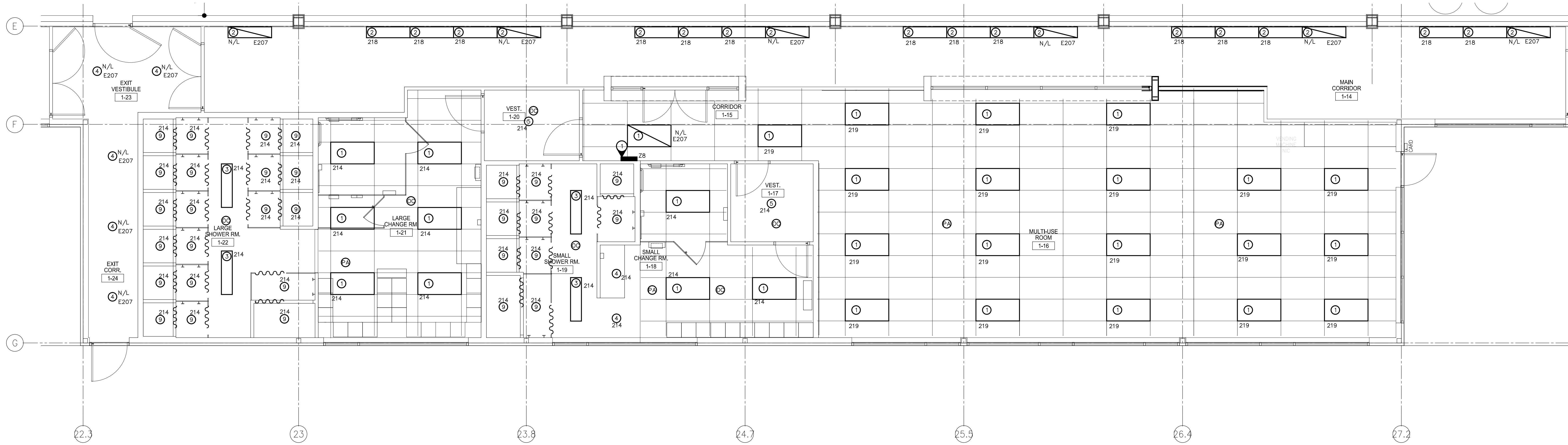
LUMINAIRE SCHEDULE NOTES:
1. ALL FLUORESCENT BALLAST TO BE ELECTRONIC. MB HYDRO "POWER SMART" APPROVED.
2. ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, UNLESS OTHERWISE NOTED.

REVISED / ISSUED / PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
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SPECIFIC ELECTRICAL NOTES

- 1 LOW VOLTAGE SWITCH LOCATION 'Z' NOTATION DENOTES ZONE (EG. 'Z1' DENOTES ZONE 1).
- 2 APPROXIMATE LOCATION OF SLAVE LOW VOLTAGE CONTROL PANEL.
- 3 WALL MOUNTED AT 2.2m A.F.F. OF STAIRWELL LANDING.
- 4 SURFACE MOUNTED AT CENTER OF UNDERSIDE OF LANDING.
- 5 WALL MOUNTED AT 2.2m A.F.F. OF EACH OF TWO(2) LANDINGS.
- 6 WALL MOUNTED AT 3.2m A.F.F.



1 OFFICE AREA - LIGHTING LAYOUT
512 SCALE: 1/50

AS-BUILT DRAWINGS

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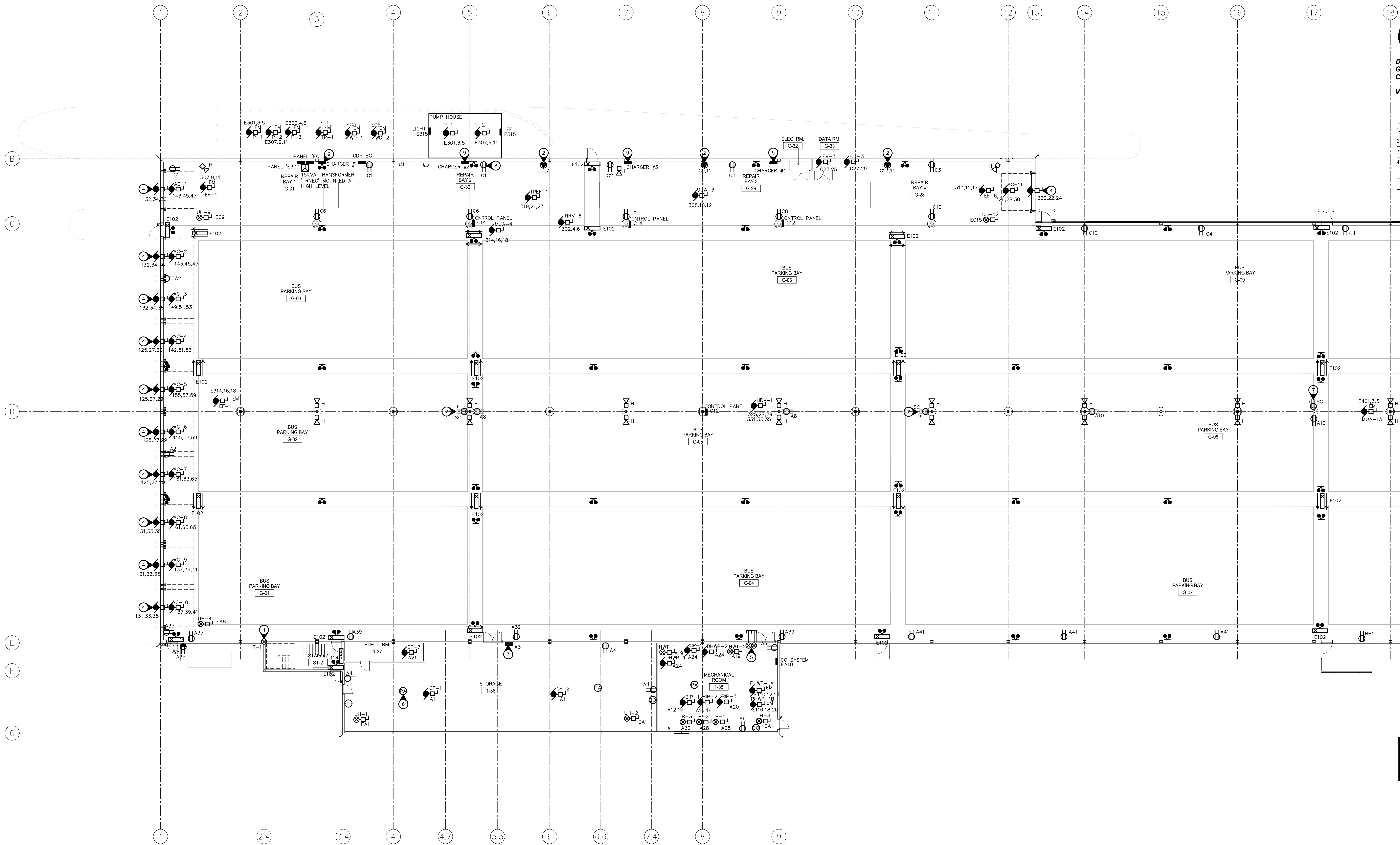
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL -
OFFICE AREA
LIGHTING LAYOUT

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

REVISION/ISSUED/PLOTTED	DATE
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1 MAIN FLOOR - POWER AND SYSTEMS LAYOUT (SOUTH)
SCALE: 1/150

SPECIFIC ELECTRICAL NOTES

- 1 PROVIDE 120V POWER FOR HEAT TRACE. CONFIRM REQUIREMENTS WITH DIV. 15.
- 2 SOA-2P WELDING RECEPTACLES. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
- 3 PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.
- 4 WIRE AND CONNECT GARAGE DOOR OPERATOR AND ALL RELATED CONTROLS AS REQUIRED. SOURCE: REFER TO RFP (PAGE 76) FOR CONTROL AND FEATURE REQUIREMENTS.
- 5 PROVIDE TWO(2)-4" CONDUIT STUBS OUT FROM ALL MECHANICAL, ELECTRICAL AND DATA ROOMS FOR FUTURE ADDITIONS C/W PULLSTRING AND 12 AWG TRACER WIRE.
- 6 FLUSH MOUNTED TO UNDERSIDE OF JOIST (TYPICAL).
- 7 SC RECEPTACLE MOUNTED AT HIGH LEVEL FOR W/FL FEED FROM NEAREST EMERGENCY PANEL.
- 8 SC RECEPTACLE TO BE RED FROM NEAREST UPS.
- 9 WIRE AND CONNECT BUS CHARGER AS REQUIRED. CONFIRM EXACT LOCATION AND REQUIREMENTS ON SITE.

GENERAL ELECTRICAL NOTES

1. PROVIDE A DEDICATED NEUTRAL FOR ALL ISOLATED GROUND RECEPTACLES.
2. PROVIDE 120V POWER SUPPLY FOR ALL ELECTRONICALLY CONTROLLED PLUMBING FIXTURES.
3. PROVIDE 100mm CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT AND TRANSFORMERS.
4. ALL TRANSFORMERS TO BE RATED K-13.
5. ALL RECEPTACLES WITHIN GARAGE AREA ARE TO BE MOUNTED AT 4'-0" A.F.F.

AS-BUILT DRAWINGS
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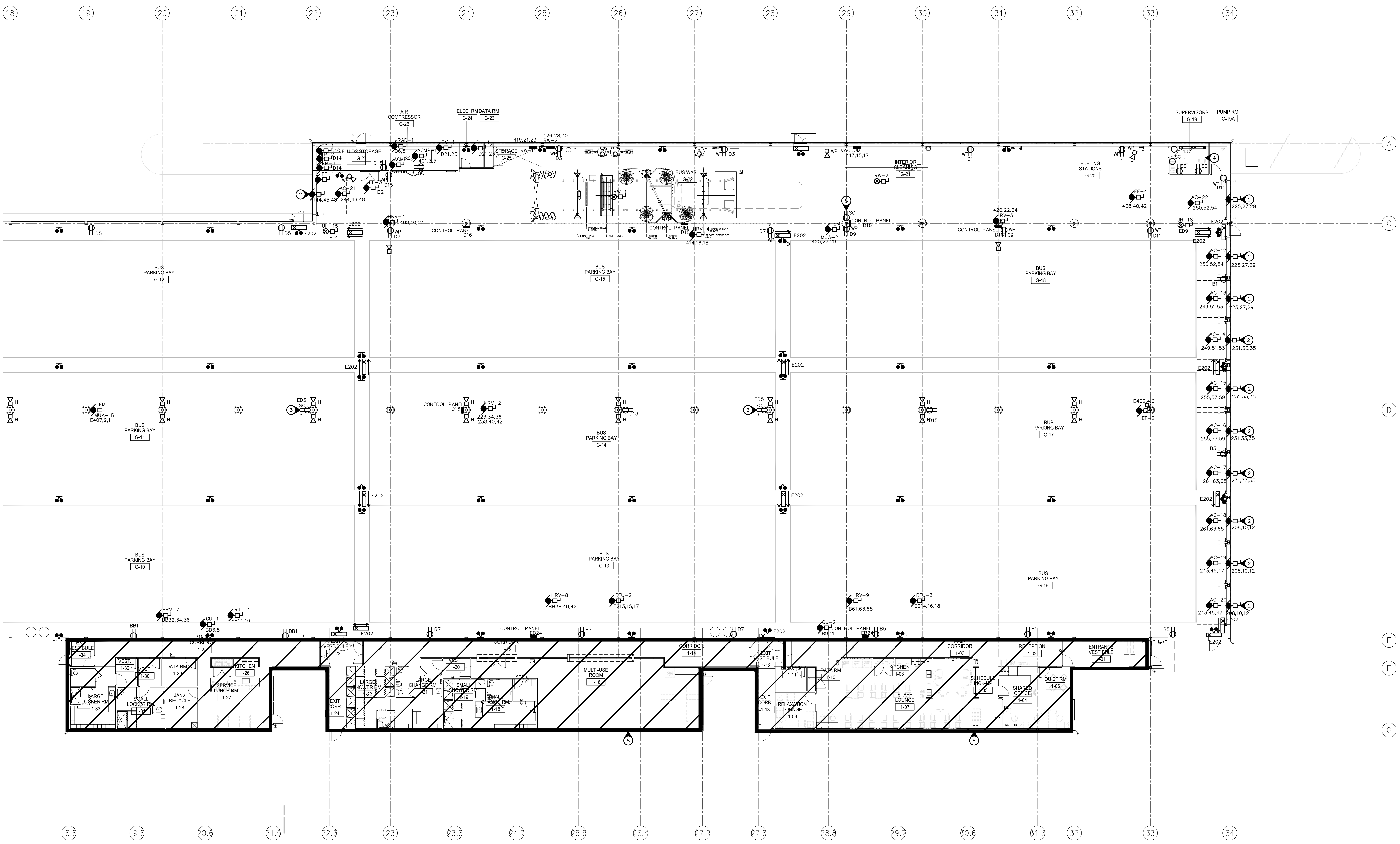
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - POWER AND SYSTEMS LAYOUT SOUTH

Project number	2012021
Date	APRIL 19, 2013
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1 MAIN FLOOR - POWER AND SYSTEMS LAYOUT (NORTH)
SCALE: 1/150

GENERAL ELECTRICAL NOTES

- PROVIDE A DEDICATED NEUTRAL FOR ALL ISOLATED GROUND RECEPTACLES.
- PROVIDE 120V POWER SUPPLY FOR ALL ELECTRONICALLY CONTROLLED PLUMBING FIXTURES.
- PROVIDE 100mm CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT AND TRANSFORMERS.
- ALL TRANSFORMERS TO BE RATED K-13.

SPECIFIC ELECTRICAL NOTES

- REFER TO ELECTRICAL DRAWING ES.1 FOR POWER REQUIREMENTS IN THIS AREA.
- WIRE AND CONNECT GARAGE DOOR OPERATOR AND ALL RELATED CONTROLS AS REQUIRED. SOURCE, REFER TO RFP (PAGE 76) FOR CONTROL AND FEATURE REQUIREMENTS.
- SC RECEPTACLE MOUNTED AT HIGH LEVEL FOR WFI, FEED FROM NEAREST EMERGENCY POWER.

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TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
**ELECTRICAL -
POWER AND SYSTEMS LAYOUT
NORTH**

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

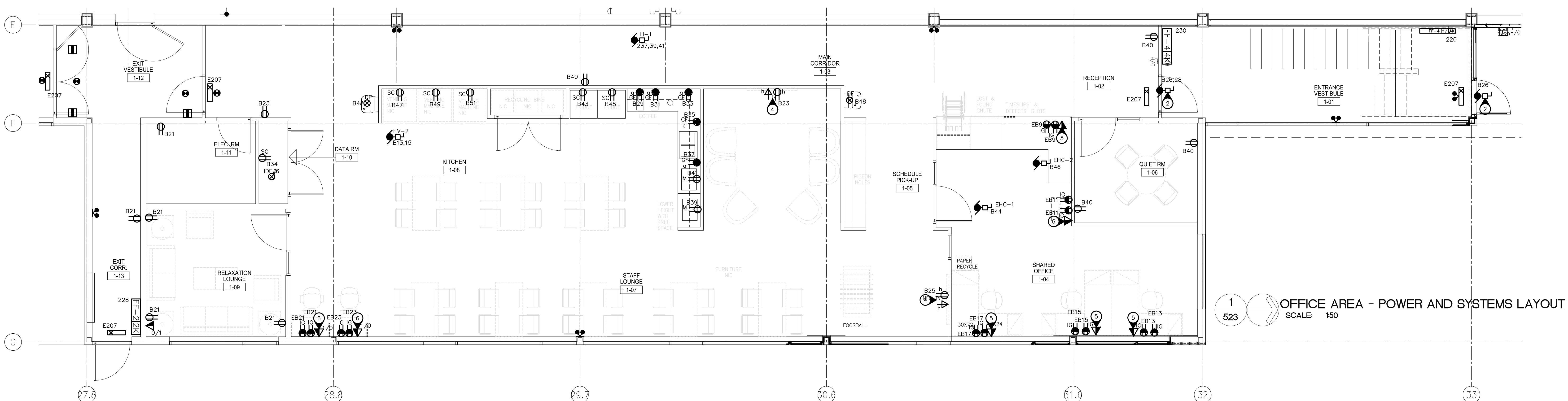
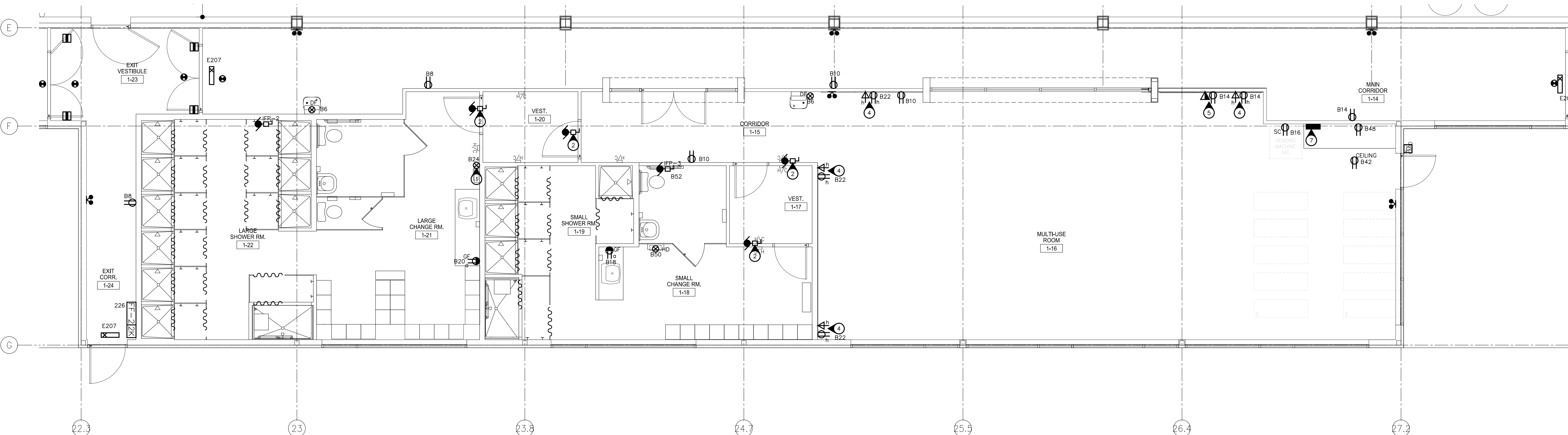
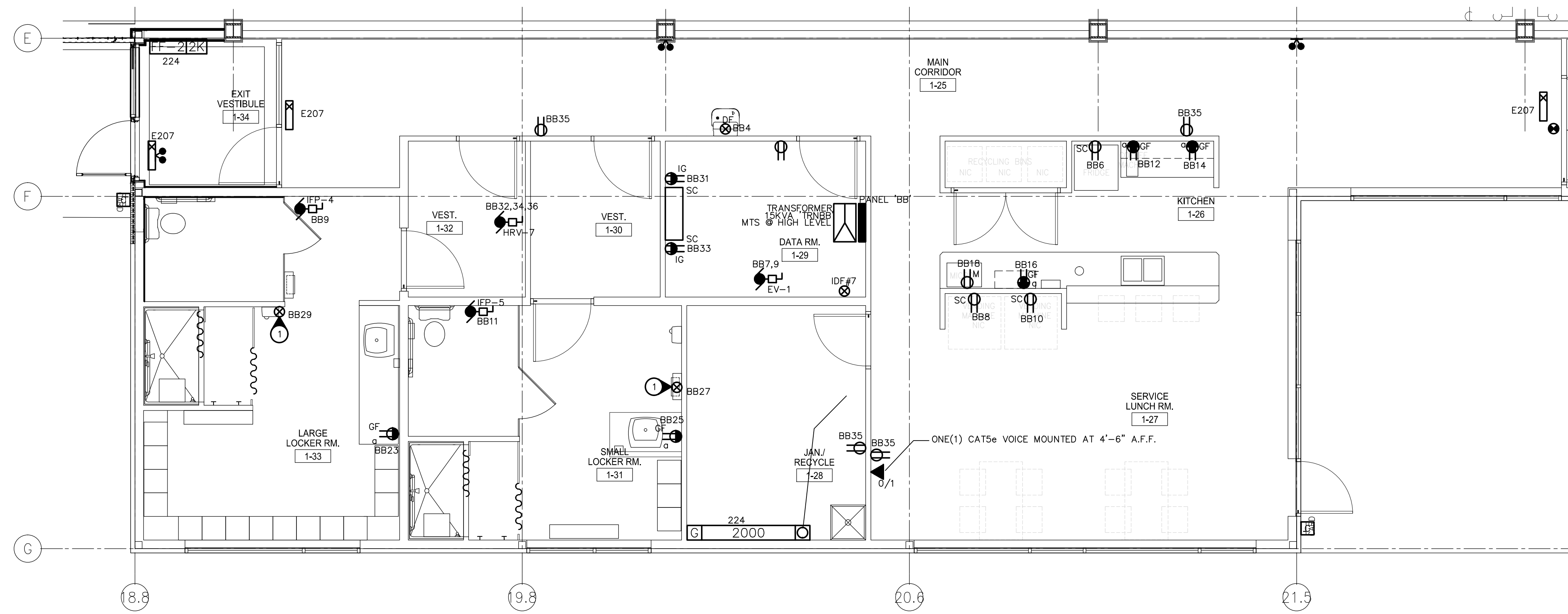
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4. AS BUILT	2014-01-20

SPECIFIC ELECTRICAL NOTES

1. SUPPLY, INSTALL, WIRE, AND CONNECT ELECTRIC HAND DRYER, 120V, 1.4KW DYSON AIRBLADE AB04-120V-CSA.
2. WIRE AND CONNECT HANDICAPPED DOOR OPERATOR AND ALL RELATED CONTROLS AS REQUIRED.
3. NOT USED.
4. OUTLETS MOUNTED AT HIGH LEVEL BEHIND TELEVISION, RUN ONE(1) COAX CABLE. CONFIRM TELEVISION MOUNTING HEIGHTS ON SITE.
5. RUN TWO(2) CAT6 DATA AND ONE(1) CAT5e VOICE.
6. ONE(1) CAT6 DATA.
7. P.A. SYSTEM AMPLIFIER, TOA DIGITAL AMPLIFIER DA SERIES.

GENERAL ELECTRICAL NOTES

1. PROVIDE A DEDICATED NEUTRAL FOR ALL ISOLATED GROUND RECEPTACLES.
2. ALL POWER RECEPTACLES FOR COMPUTER WORKSTATIONS ARE TO BE FED FROM NEAREST UPS.



1
523 OFFICE AREA - POWER AND SYSTEMS LAYOUT
SCALE: 1/50

AS-BUILT DRAWINGS

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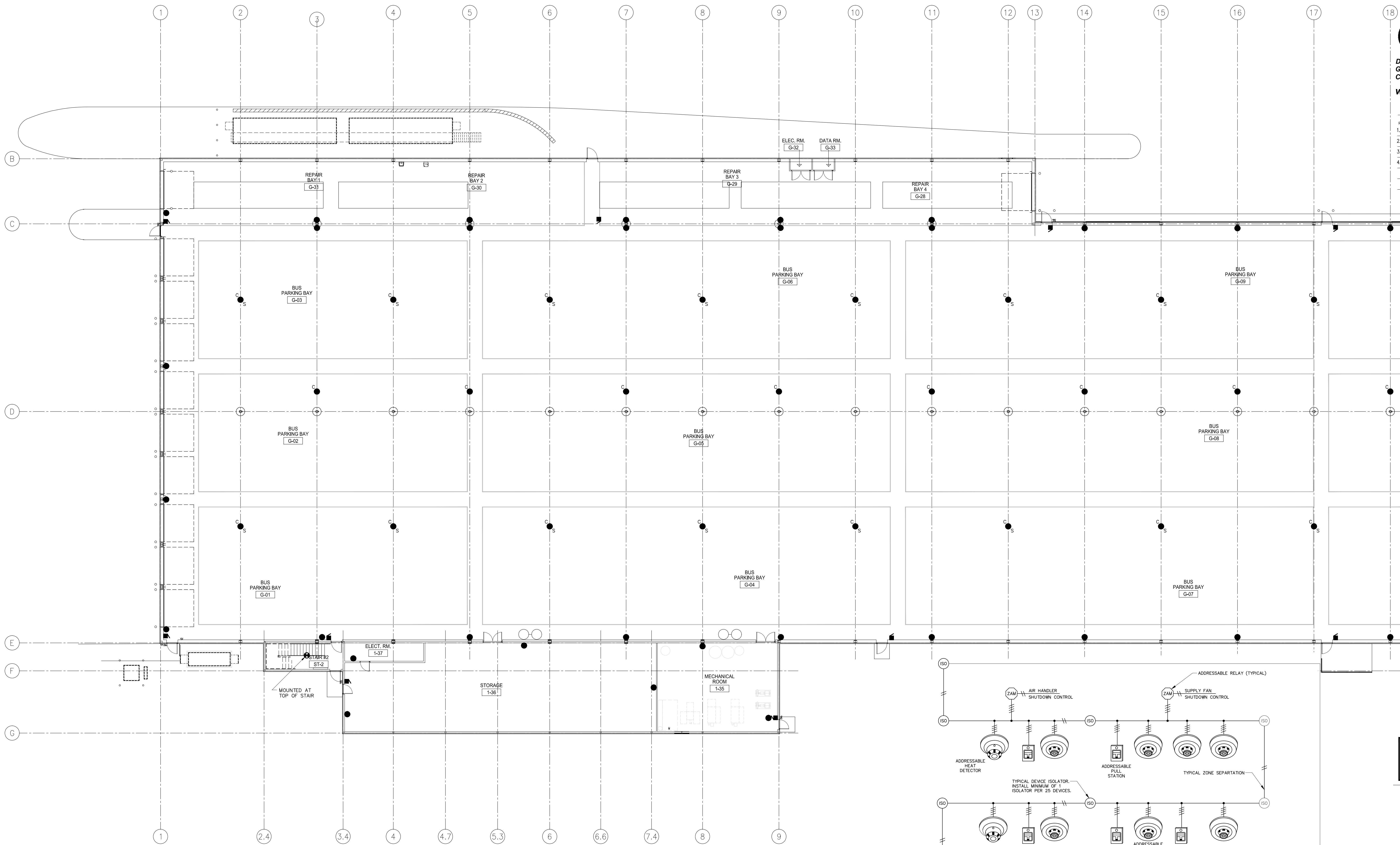
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - OFFICE AREA
POWER & SYSTEMS LAYOUT

Project number	2012021
Date	APRIL 19, 2013
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1 MAIN FLOOR - FIRE ALARM LAYOUT (SOUTH)
SCALE: 1/8"=1'-0"

SPECIFIC ELECTRICAL NOTES

- 1. APPROXIMATE LOCATION OF FOUR(4) NAC EXTENDER PANELS.

GENERAL ELECTRICAL NOTES

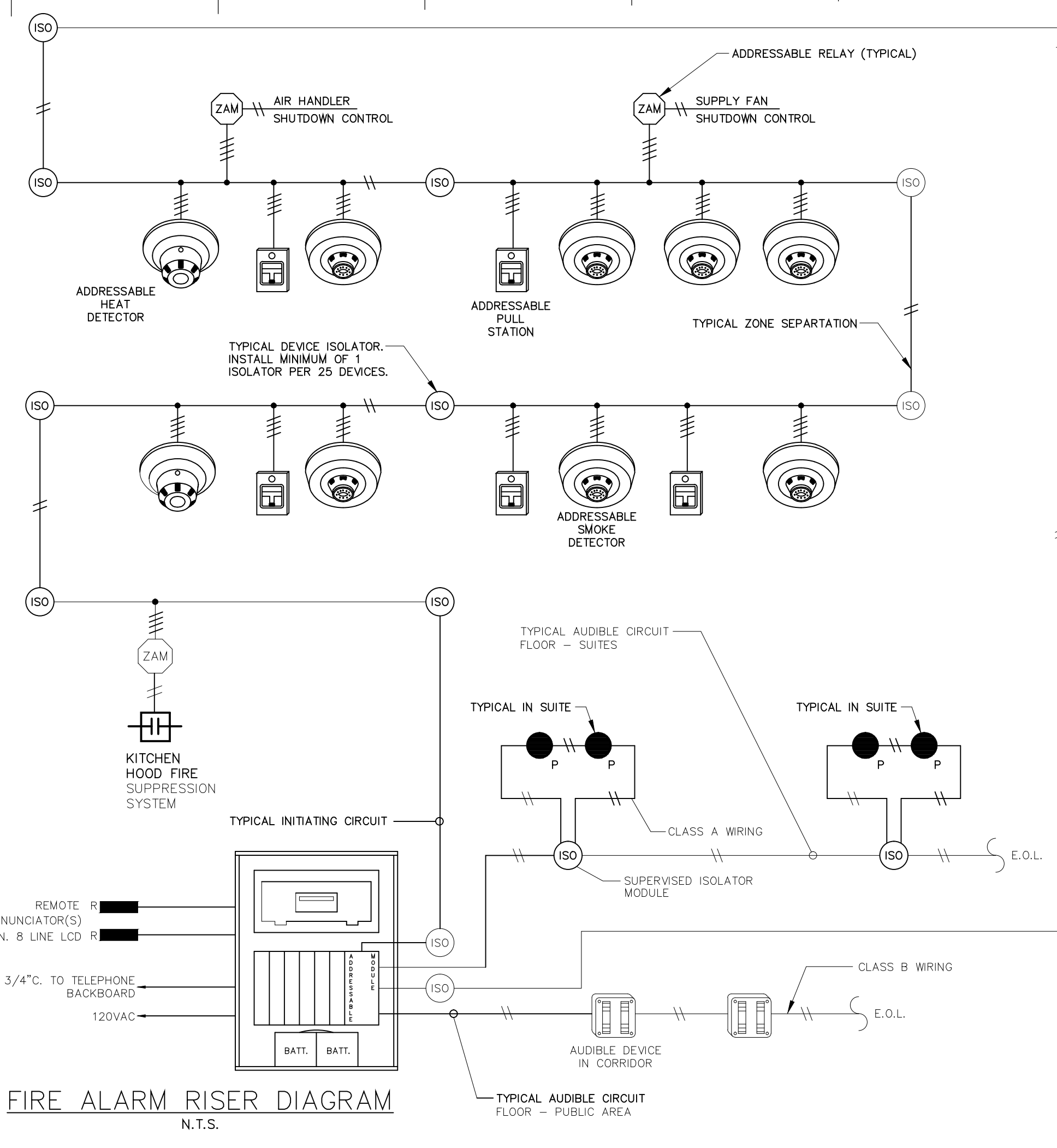
- 1. FIRE ALARM SYSTEM TO BE INTERCONNECT TO EXISTING FIRE ALARM SYSTEMS IN EXISTING BUILDINGS "A" AND "B". USER SHALL BE ABLE TO QUERY STATUS OF ANY BUILDING A, B, OR BUS GARAGE FROM ANY LOCATION.

SYMBOL SCHEDULE

- Motorized damper control wiring by Div. 15 120V power supply by Div. 16.
- Fire alarm pull station.
- Fire alarm audible device, c/w strobe light.
- Piezoelectric buzzer c/w silencing and isolation features to meet NBC 3.2.4.19.
- Fire alarm thermal detector.
- Fire alarm fixed temperature thermal detector.
- Fire alarm moisture proof thermal detector.
- Fire alarm smoke detector.
- 120V carbon monoxide alarm c/w hush feature and battery backup. Mount according to manufacturer's directions.
- 120V smoke alarm c/w hush feature and battery backup. Mount according to manufacturer's junction box.
- Relay IAM.
- Addressable fault isolator.
- Emergency call station.
- Emergency call indicating light.
- Intercom station (NP denotes weather proof).
- Sprinkler flow switch. Wire to a separate zone in fire alarm panel. See mechanical for location.
- Sprinkler tamper switch. Wire to a separate zone in fire alarm panel. See mechanical for location.
- Smoke/fire damper. Supplied and installed by Div. 15, wired & connected by Div. 16. Coordinate location & requirements with Div. 15. Tie to fire alarm panel.

FIRE ALARM SYSTEM

- 1.0 GENERAL
- THE ELECTRICAL SUB-CONTRACTOR SHALL SUPPLY AND INSTALL A COMPLETE, FULLY OPERATIONAL SUPERVISED FIRE ALARM SYSTEM AS SHOWN ON THE PLANS AND DETAILED HEREIN.
- ALL COMPONENTS OF THE FIRE ALARM SYSTEM SHALL BE OF ONE MANUFACTURER AND SHALL MEET ALL ULC CODES AND REGULATIONS AND LOCAL AUTHORITIES HAVING JURISDICTION.
- THE COMPLETE SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL BE IN ACCORDANCE WITH CAN/ULC-S524-06 STANDARD FOR THE INSTALLATION OF FIRE ALARMS. FINAL TESTING OF THE COMPLETE INSTALLATION SHALL BE CARRIED OUT BY THE SYSTEM MANUFACTURER WITH ASSISTANCE PROVIDED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH CAN/ULC-S537-04 "VERIFICATION" FOR FIRE ALARM SYSTEM INSTALLATIONS. FIRE ALARM VERIFICATION IS TO BE SEALED BY A PROFESSIONAL ENGINEER.
- THE FIRE ALARM SYSTEM SHALL CONSIST OF A TYPE 1, SINGLE STAGE, ADDRESSABLE FIRE ALARM SYSTEM.
- THE ENTIRE FIRE ALARM SYSTEM SHALL CARRY A FULL ONE-YEAR WARRANTY, COMMENCING ON THE DATE OF THE COMPLETED VERIFICATION INSPECTION OR BUILDING OCCUPANCY, WHICHEVER OCCURS FIRST.
- THE ENTIRE FIRE ALARM SYSTEM SHALL BE AS MANUFACTURED AND SUPPLIED BY EDWARDS.
- 2.0 OPERATION
- OPERATION OF ANY ALARM INITIATING DEVICE SHALL CAUSE ALL AUDIBLE SIGNALS TO SOUND CONTINUOUSLY THROUGHOUT THE BUILDING. THE SIGNALS MAY BE SILENCED BY OPERATING THE "SIGNAL SILENCE" PUSHBUTTON ON THE CONTROL PANEL AND/OR BY RESETTING THE SYSTEM AFTER THE INITIATING DEVICE HAS BEEN RETURNED TO NORMAL.
- 3.0 SYSTEM EQUIPMENT
- 1. THE CONTROL PANEL SHALL BE AN EDWARDS SERIES QS/A SOLID STATE BASED LOGIC TO ACCOMMODATE ZONES AS SHOWN ON PLANS, COMPLETE WITH 2 SIGNAL CIRCUITS, STANDBY BATTERY AND 2 N.O. AND 2 N.C. AUXILIARY CONTACTS AND COMPLETE WITH MONITORING FEATURE. STANDBY BATTERY SHALL HAVE MINIMUM 1 HOUR ALARM CAPACITY AFTER 24 HOURS OF SUPERVISORY MODE.
- 2. MANUAL PULL STATIONS SHALL BE MODEL SIGA-270.
- 3. AUTOMATIC THERMAL HEAT DETECTORS SHALL BE MODEL SIGA-HFS FOR 57°C FIXED TEMPERATURE AND/OR FOR 93°C FIXED TEMPERATURE. FOR 57°C RATE OF RISE, DETECTOR SHALL BE MODEL SIGA-HRS.
- 4. SYSTEM SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE MODEL SIGA-PS, 2 WIRE TYPE.
- 5. ALARM BELLS SHALL BE MODEL MB6-24 - 150MM OR MB10-24 - 250MM WHERE SHOWN C/W ADAPTER PLATES. STROBE PLATE TO BE SERIES 403 OR 792.
- 6. DUCT MOUNT SMOKE DETECTORS SHALL BE MODEL SIGA-DH C/W SIGA-PS PHOTOELECTRIC DETECTOR AND SAMPLING TUBES TO SUIT DUCT WIDTH. CONNECT FAN CONTROL VIA AUXILIARY CONTACTS IN CONTROL PANEL TO SHUT DOWN ON AN ALARM CONDITION.
- 7. INSTALL APPROPRIATE DEVICES TO SUIT APPLICATION.
- 4.0 APPROVED EQUAL MANUFACTURERS
- 1. SIMPLEX, NOTIFIER, MIRCOR.



FIRE ALARM RISER DIAGRAM
N.T.S.

- FIRE ALARM SYSTEM NOTES:**
- 1. BUILDING PRINTS WITH DEVICE ADDRESSING/LOOP LAYOUT & ISOLATOR LAYOUTS TO FOLLOW BY MANUFACTURER.
 - 2. SHIELD (ANY RUN) TO BE CONTINUOUS, ISOLATED FROM GROUND AND TERMINATED AT FIRE ALARM PANEL GROUND ONLY.
 - 3. MAGNETIC DOOR LOCKS TO BE CONNECTED TO COMMON ALARM/FAILSAFE RELAY IN FIRE ALARM PANEL ENCLOSURE.
 - 4. PROVIDE DEVICE ISOLATION AND SEPARATE AUDIBLE CIRCUITS IN ACCORDANCE WITH NBC 3.2.4.18.
 - 5. COMPLETE FIRE ALARM INSTALLATION TO CAN/ULC-S524-06.

AS-BUILT DRAWINGS
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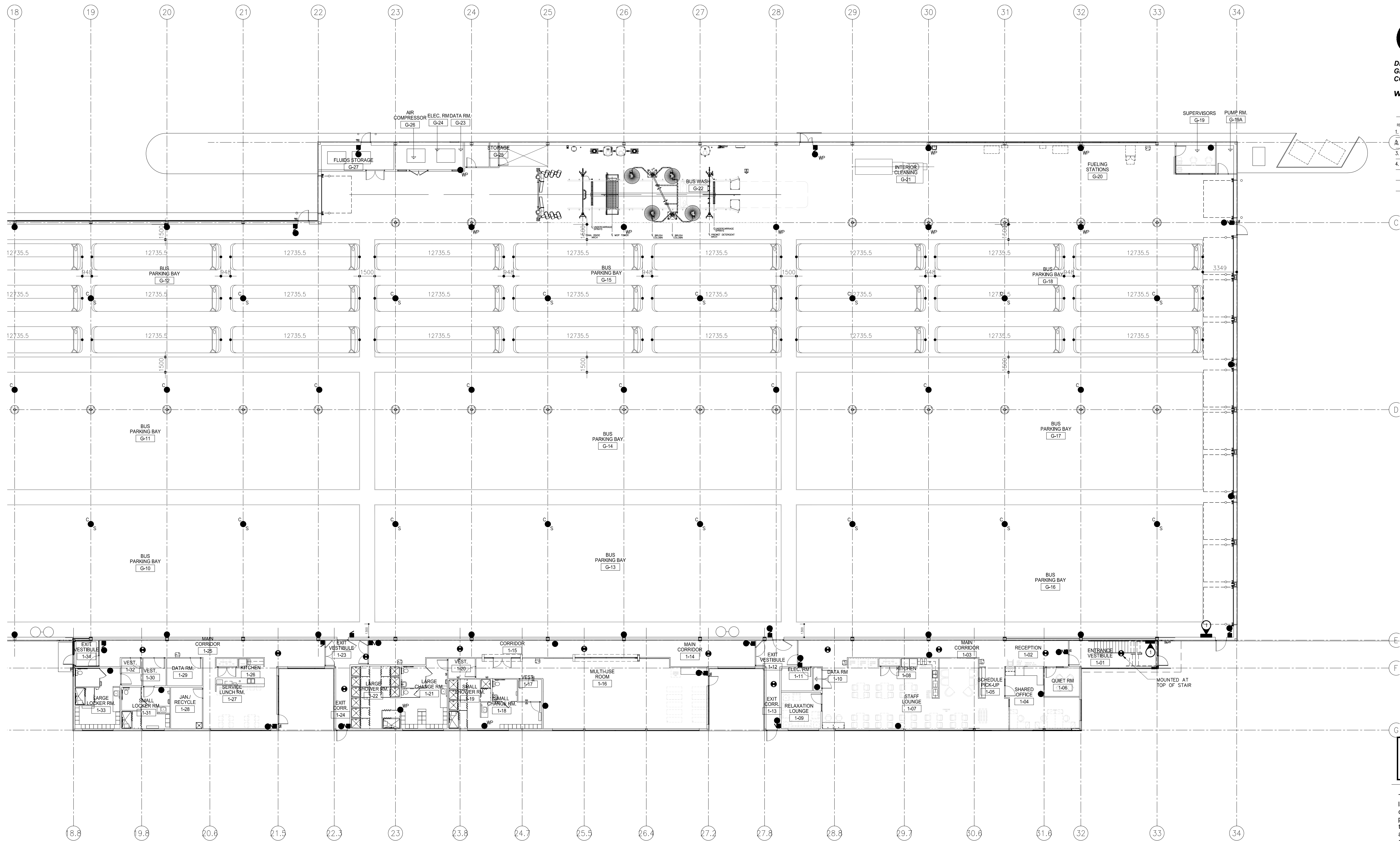
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - FIRE ALARM LAYOUT SOUTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

REVISED / ISSUED / PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
2. GENERAL REVISIONS	2013-04-09
3. GENERAL REVISIONS	2013-04-19
4. AS BUILT	2014-01-20



1
531
MAIN FLOOR - FIRE ALARM LAYOUT (NORTH)
SCALE: 1/50

SPECIFIC ELECTRICAL NOTES

- 1 FIRE ALARM PANEL - SURFACE MOUNTED.

AS-BUILT DRAWINGS
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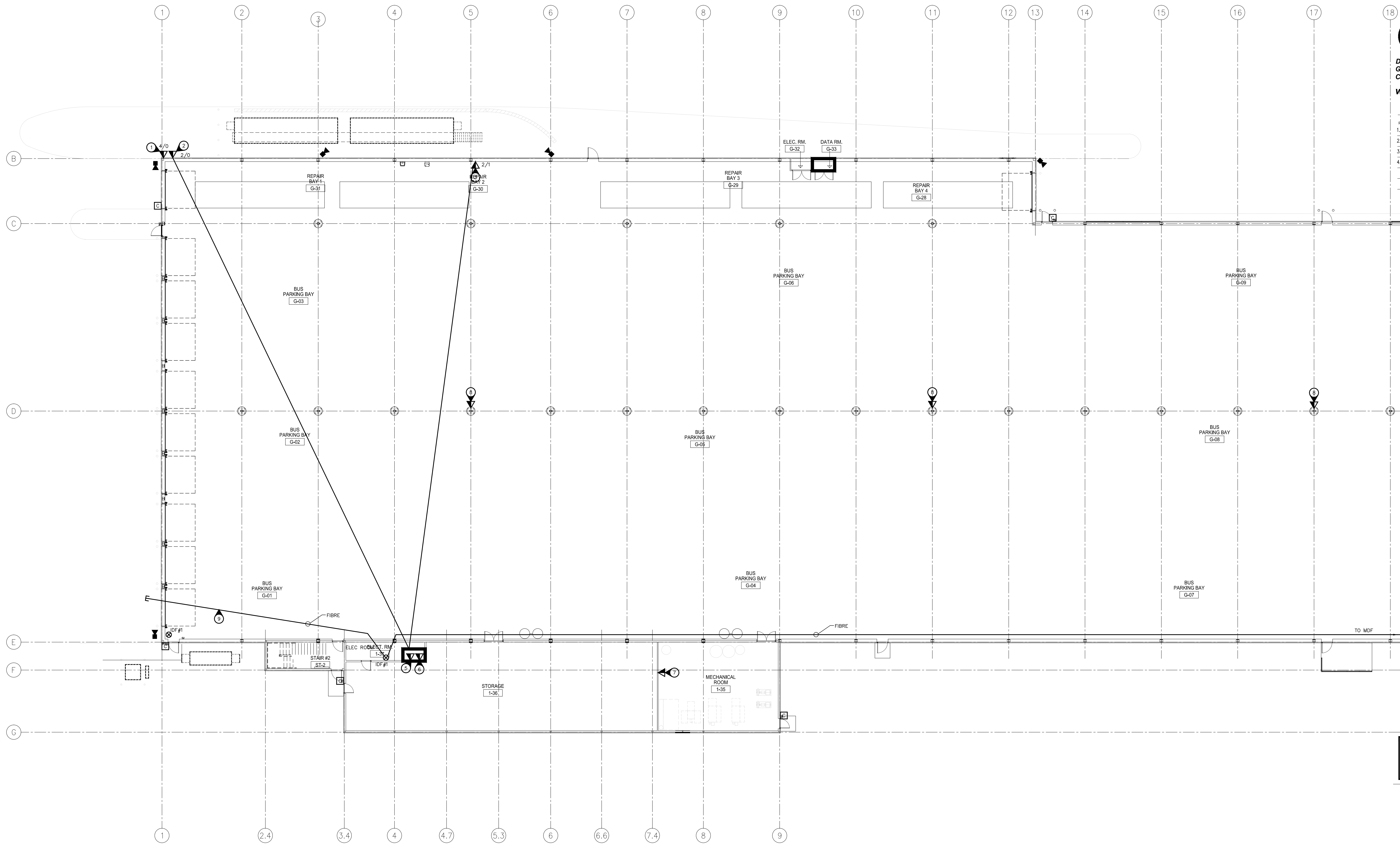
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL - FIRE ALARM LAYOUT NORTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

REVISION/ISSUED/PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
2. GENERAL REVISIONS	2013-04-09
3. GENERAL REVISIONS	2013-04-19
4. AS BUILT	2014-01-20



1 540 MAIN FLOOR - COMMUNICATIONS AND SECURITY LAYOUT (SOUTH)
SCALE: 1/150

SPECIFIC ELECTRICAL NOTES

- 1 FOUR(4) CAT6 DATA IN CONDUIT TO FUEL METERS. CONFIRM EXACT LOCATION ON SITE.
- 2 TWO(2) CAT6 DATA IN CONDUIT TO BUS FUELING LANE. CONFIRM EXACT LOCATIONS ON SITE.
- 3 TWO(2) CAT6 DATA AND ONE(1) CAT5e VOICE IN CONDUIT.
- 4 NOT USED.
- 5 ONE(1) CAT6 DATA IN CONDUIT FOR ELECTRICAL.
- 6 ONE(1) CAT6 DATA IN CONDUIT FOR MECHANICAL.
- 7 FOUR(4) CAT6 DATA IN CONDUIT FOR HVAC AND METASYS.
- 8 TWO(2) CAT6 DATA IN CONDUIT FOR WIFI. PROVIDE CABLING AND INFRASTRUCTURE. ACTIVE COMPONENTS (IE. ROUTERS, ETC.) BY OTHERS.
- 9 TO BUS KIOSK.

GENERAL ELECTRICAL NOTES

1. WIFI HOTSPOT OUTLETS TO BE ON CANTILEVERED ARM.
2. CONNECTORS TO BE TYPE 'LC'.
3. DATA OUTLETS TO BE SELF-CLOSING PROTECTED TYPES.

AS-BUILT DRAWINGS
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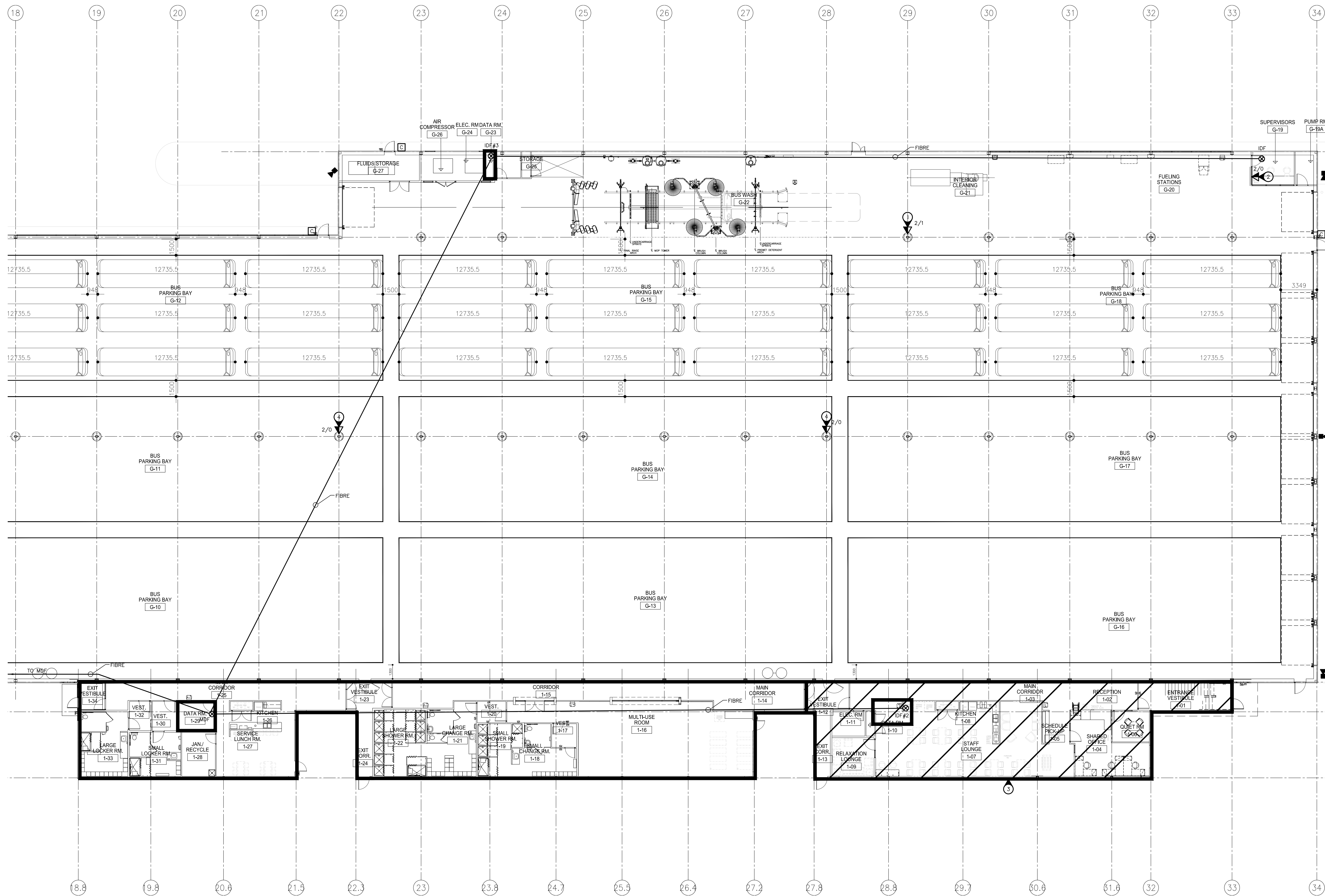
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL -
COMMUNICATIONS AND SECURITY LAYOUT
SOUTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

REVISED / ISSUED / PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
2. GENERAL REVISIONS	2013-04-09
3. GENERAL REVISIONS	2013-04-19
4. AS BUILT	2014-01-20



1
541 MAIN FLOOR - COMMUNICATIONS AND SECURITY LAYOUT (NORTH)
SCALE: 1/50

SPECIFIC ELECTRICAL NOTES

- 1. TWO(2) CAT6 DATA IN CONDUIT TO ONE(1) CAT5e VOICE IN CONDUIT.
- 2. TWO(2) CAT6 DATA IN CONDUIT TO REVENUE VAULT OFFICE.
- 3. REFER TO ELECTRICAL DRAWING 523 FOR VOICE/DATA AND GARD ACCESS IN THIS AREA.
- 4. TWO(2) CAT6 DATA IN CONDUIT FOR WIFI. PROVIDE CABLING AND INFRASTRUCTURE, ACTIVE COMPONENTS (IE ROUTERS, ETC.) BY OTHERS.

AS-BUILT DRAWINGS
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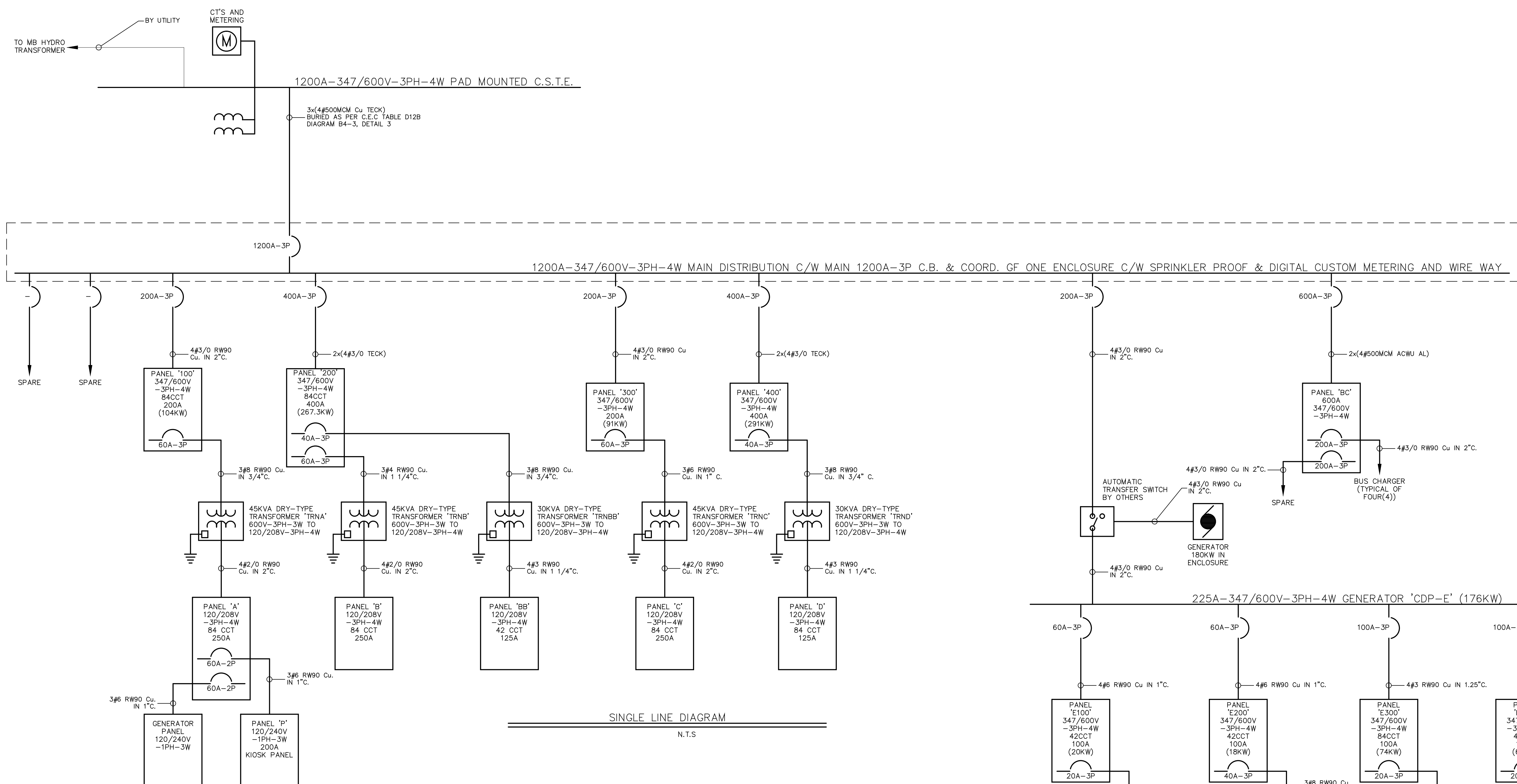
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE
ELECTRICAL -
COMMUNICATIONS AND SECURITY LAYOUT
NORTH

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
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REVISED / ISSUED / PLOTTED	DATE
1. ISSUED FOR CONSTRUCTION	2013-02-27
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GENERAL ELECTRICAL NOTES

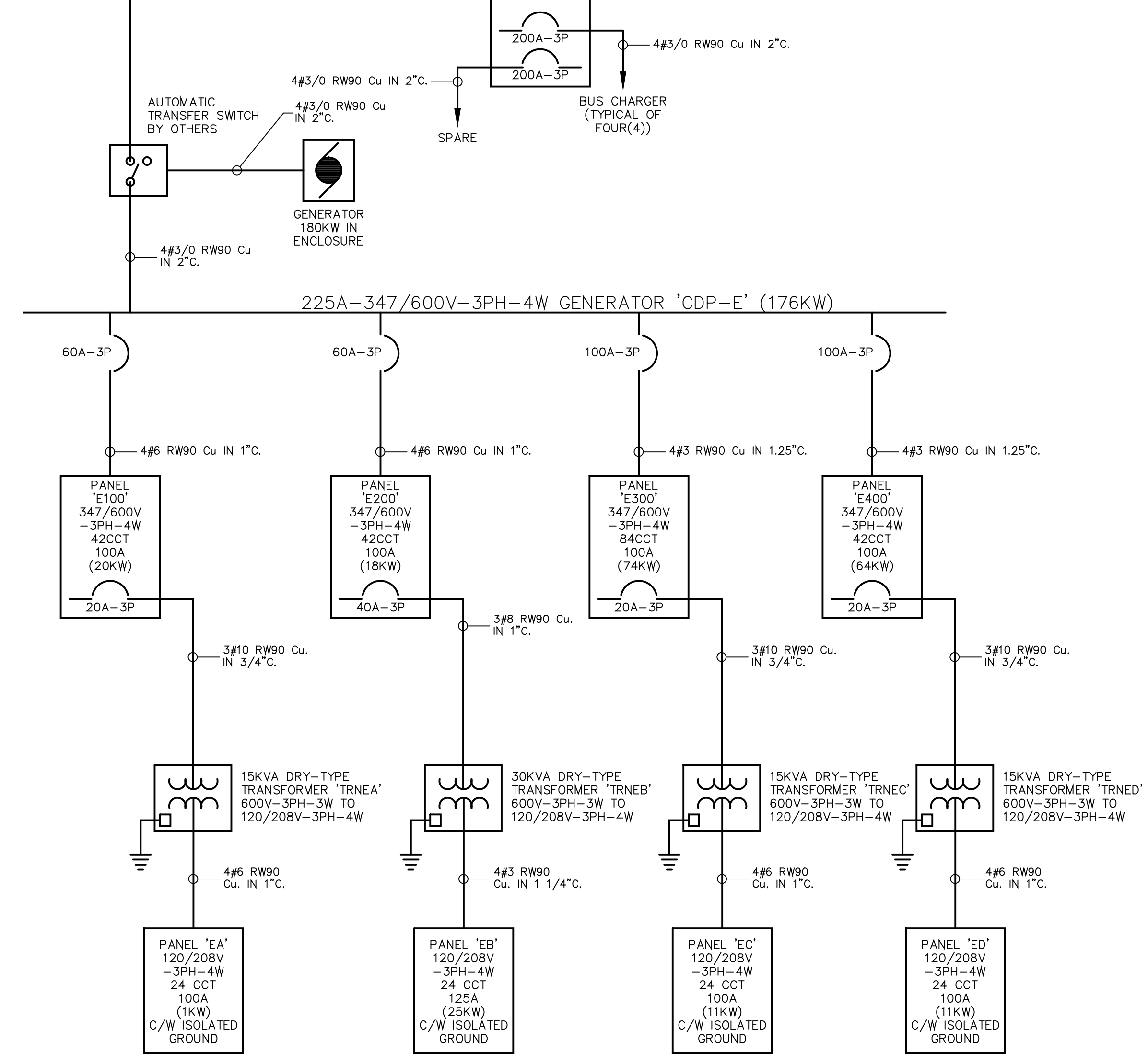
- FEEDER NOTES:
 - CONDUCTORS IN CONDUITS MUST BE SOLID COPPER #10 AWG AND SMALLER AND STRANDED #8 AWG AND LARGER. INSULATION CROSS LINK POLYETHYLENE (RW-90 OR RWI-90 90°C, 600V MUST BE PROVIDED AS REQUIRED. THE MINIMUM CONDUCTOR SIZE MUST BE #12 AWG.
 - ARMORED CABLES (AC-90) MUST BE SOLID COPPER #10 AWG AND SMALLER AND STRANDED #8 AWG AND LARGER. INSULATION CROSS LINK POLYETHYLENE (ALPE) AC-90 MAY BE USED FOR LUMINAIRE DROP CONNECTIONS IN DROP CEILING AND RECEPTACLES IN METAL STUD WALLS ONLY.
 - ARMORED CABLES (TECK) MUST BE SOLID COPPER #10 AWG AND SMALLER AND STRANDED #8 AWG AND LARGER. INSULATION CROSS LINK POLYETHYLENE (RW-90) 90°C, 600V FT4 FLAME RATING MUST BE PROVIDED AS REQUIRED. CABLE MUST BE UTILIZED FOR MECHANICAL EQUIPMENT CONNECTION FOR VIBRATION ISOLATION AND WEATHERPROOFING AS REQUIRED. (WATERTIGHT FLEX CONDUITS CAN ALSO BE UTILIZED).
 - LOW VOLTAGE CABLES FOR SYSTEMS MUST BE MULTI-CONDUCTOR TYPE, AND MINIMUM 24 AWG COMPLETE WITH FT4 SHEATHING. ALL CONDUCTORS MUST BE IN CONDUIT.
- PROVIDE SHORT CIRCUIT, COORDINATION AND ARC FLASH STUDY.
- ALL DRY-TYPE TRANSFORMERS ARE TO BE MINIMUM K-13 RATED.

EQUIPMENT SCHEDULE						
NO.	DESCRIPTION	VOLTAGE	HP/W/MCA	C.B.	COND.	NOTES
RW-1	ROSS MODEL #BAR-1055-M SYSTEM (OPTION #2)	208V-3PH	20HP	40A-3P	#8	1
RW-2	ROSS INTERIOR CLEANING SYSTEM	600V-3PH	80HP	125A-3P	#1	1
P-1	TANK FARM - PUMP	600V-3PH	3HP	15A-3P	#12	2
P-2	TANK FARM - PUMP	600V-3PH	3HP	15A-3P	#12	2
V-1	VACUUM	600V-3PH	-	80A-3P	#4	-

- SPECIFIC NOTES**
- PROVIDE 120V CONTROL CIRCUIT(S).
 - EQUIPMENT ON GENERATOR POWER.

SPECIFIC ELECTRICAL NOTES

- 10KW UPS BY OWNER. CONFIRM EXACT LOCATION ON SITE.



AS-BUILT DRAWINGS
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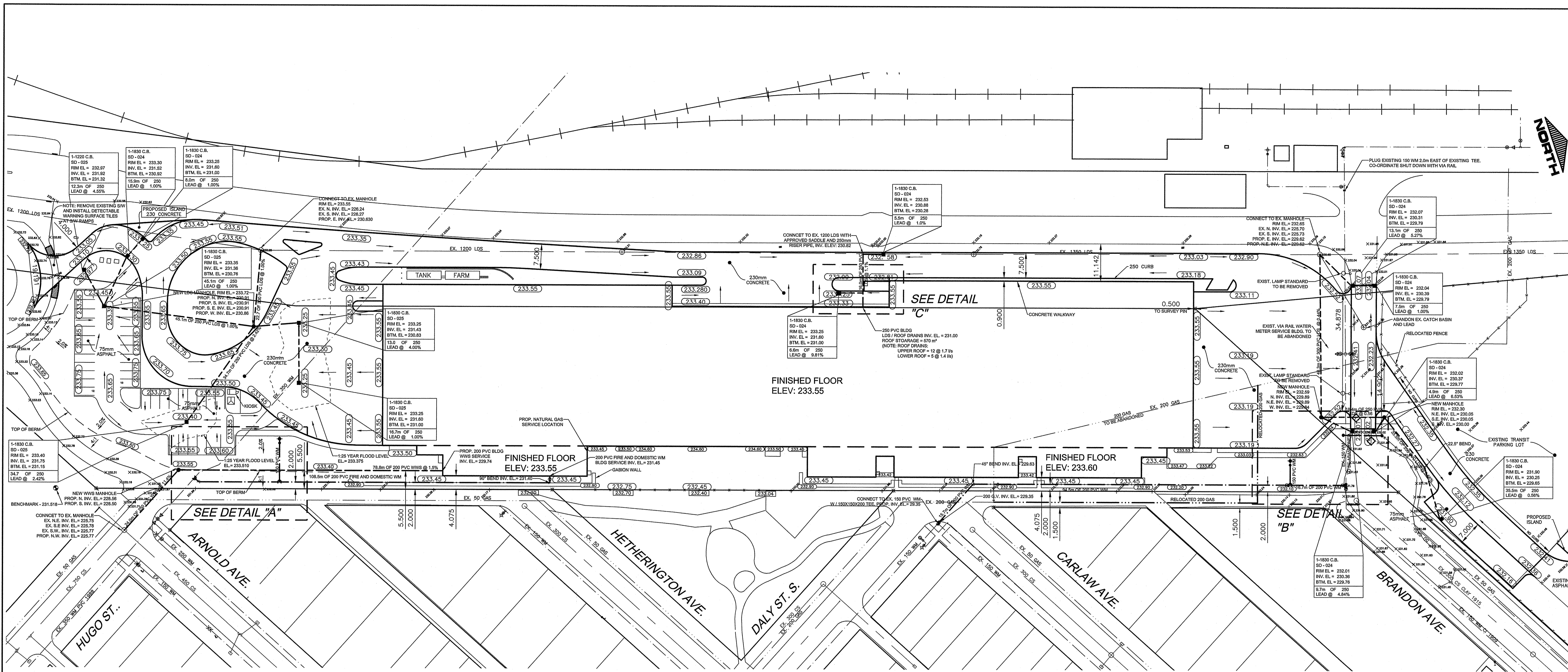
TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

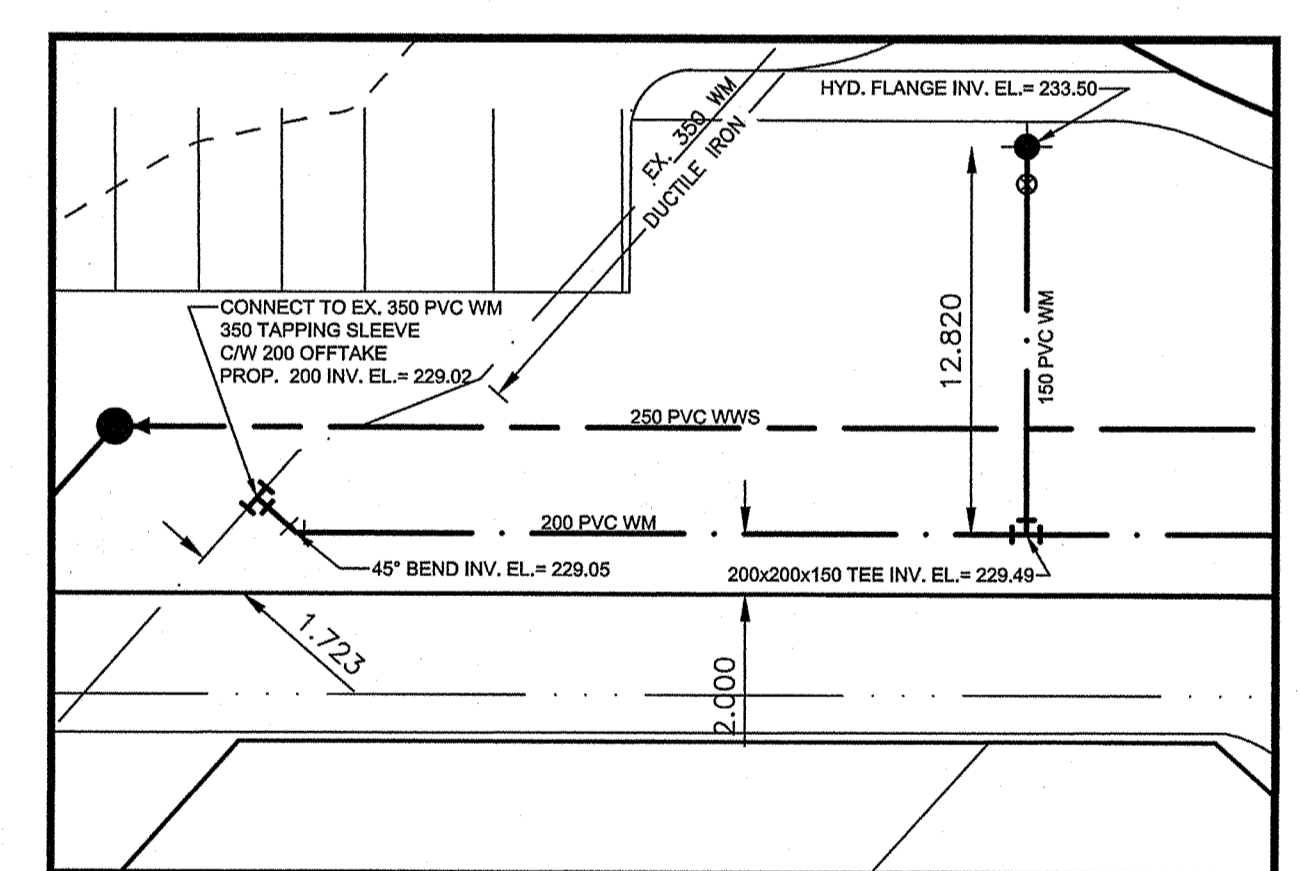
SHEET TITLE
ELECTRICAL - DISTRIBUTION RISER

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

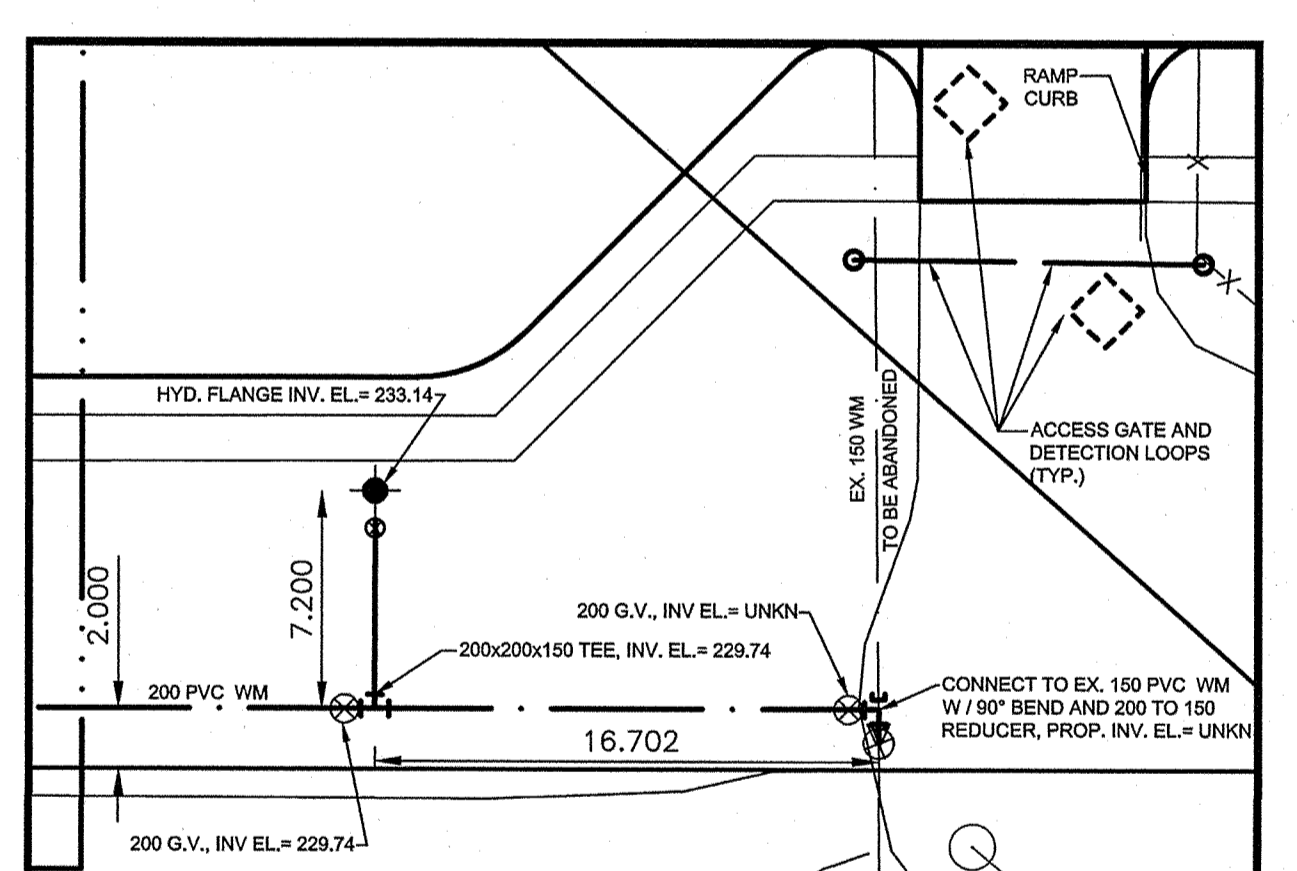
NO.	REVISION / DATE	DATE
1	COW W/AV REVIEW SUBMISSION - R.H.	04/07/2012
2	BUILDING ELEVATION CHANGE - R.H.	09/07/2012
3	NORTH SIDEWALK ADJUSTMENT - R.H.	13/07/2012
4	SOUTH APRON L.D.S. REALIGNMENT - R.H.	17/07/2012
5	ISSUED FOR 80%	18/07/2012
6	TANK FARM LOCATION CHANGE - R.H.	30/07/2012
7	REVISED EXISTING PARKING - R.H.	14/08/2012
8	TITLE BLOCK REVISION AND W/AV CHANGE - R.H.	06/09/2012
9	TANK LOCATION AND BYPASS GEOMETRY CHANGE - R.H.	21/09/2012
10	DELETED METER BUILDING, REVISED WATER SERVICE WWS ELEVATIONS AND PLUS ON EXIST 150 MM - M.B.S.	03/10/2012
11	ISSUED FOR 90% AND SUPERSTRUCTURE PERMIT	05/10/2012
12	ISSUE FOR 100% REVIEW	08/12/2012
13	ISSUED FOR CONSTRUCTION	27/02/2013



- CONSTRUCTION NOTES**
- 1.) USE GRANULAR BACKFILL FOR ALL UNDERGROUND WORKS INSTALLED UNDER PROPOSED PAVEMENT.
 - 2.) SEWERS TO BE PVC SDR 35.
 - 3.) PIPE INSTALLED UNDER EXISTING PAVEMENT TO BE AUGERED.
 - 4.) ALL VALVES ARE RED TOP VALVES, CLOCKWISE TO OPEN.
 - 5.) ALL WORK TO CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 - 6.) RESTORE ALL BOULEVARD AND PAVEMENT AREAS.



DETAIL "A"
SCALE: 1 TO 250



DETAIL "B"
SCALE: 1 TO 250

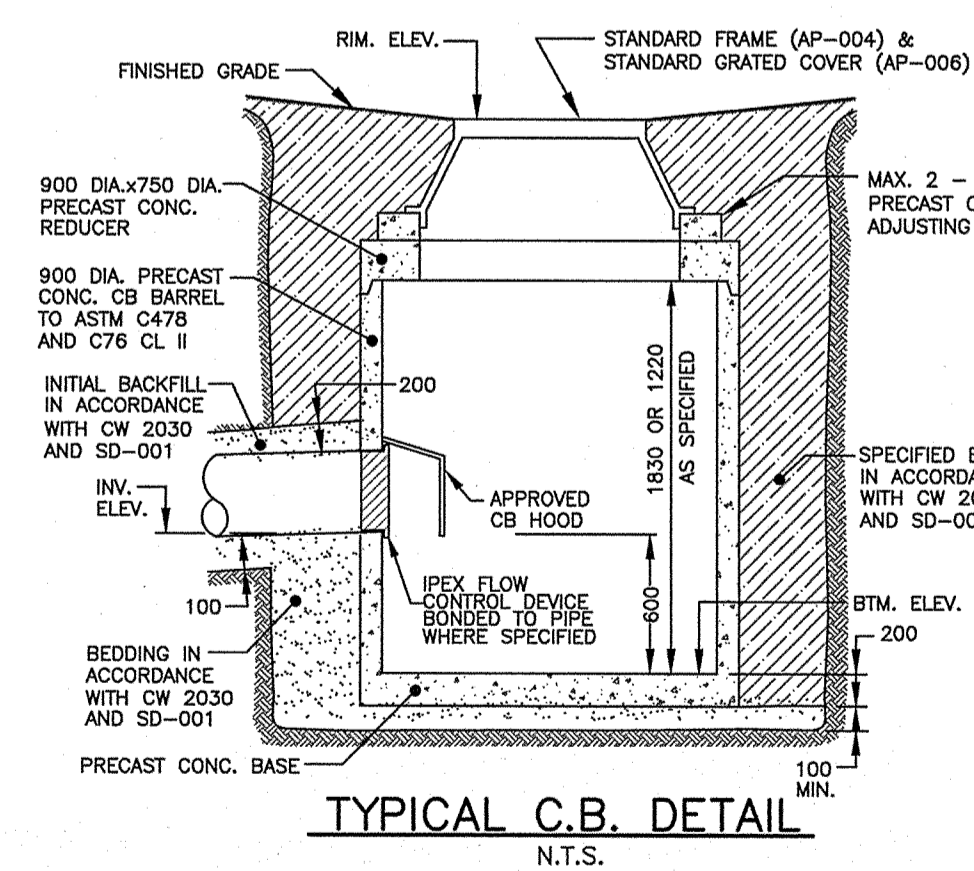
ITEM	TOTALS
A - ACRES	7.00
TOTAL IMPERVIOUS AREA - ACRES	5.70
TOTAL PERVIOUS AREA - ACRES	1.30
C - ALLOWABLE COEFF.	0.90
Q ₁₀ - CFS / L/SEC	27.15 / 768.80
STORAGE REQUIRED - m ³	237
STORAGE AVAILABLE - m ³	663

$I_5 = 4.31$ FOR $T_c = 10$ MIN

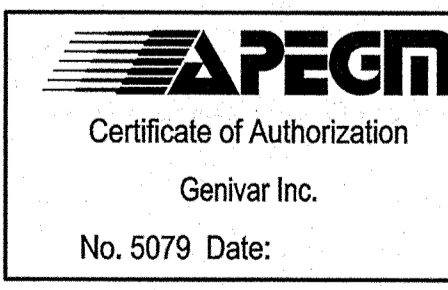
PROPOSED PAVEMENT SECTIONS

BUSWAYS	ASPHALT	PARKING	TRANSIT GARAGE
230 CONCRETE	75 ASPHALT	150 CONCRETE	
100 BASE	100 BASE	300 BASE	
300 SUB-BASE	300 SUB-BASE		
GEOTEXTILE	GEOTEXTILE		

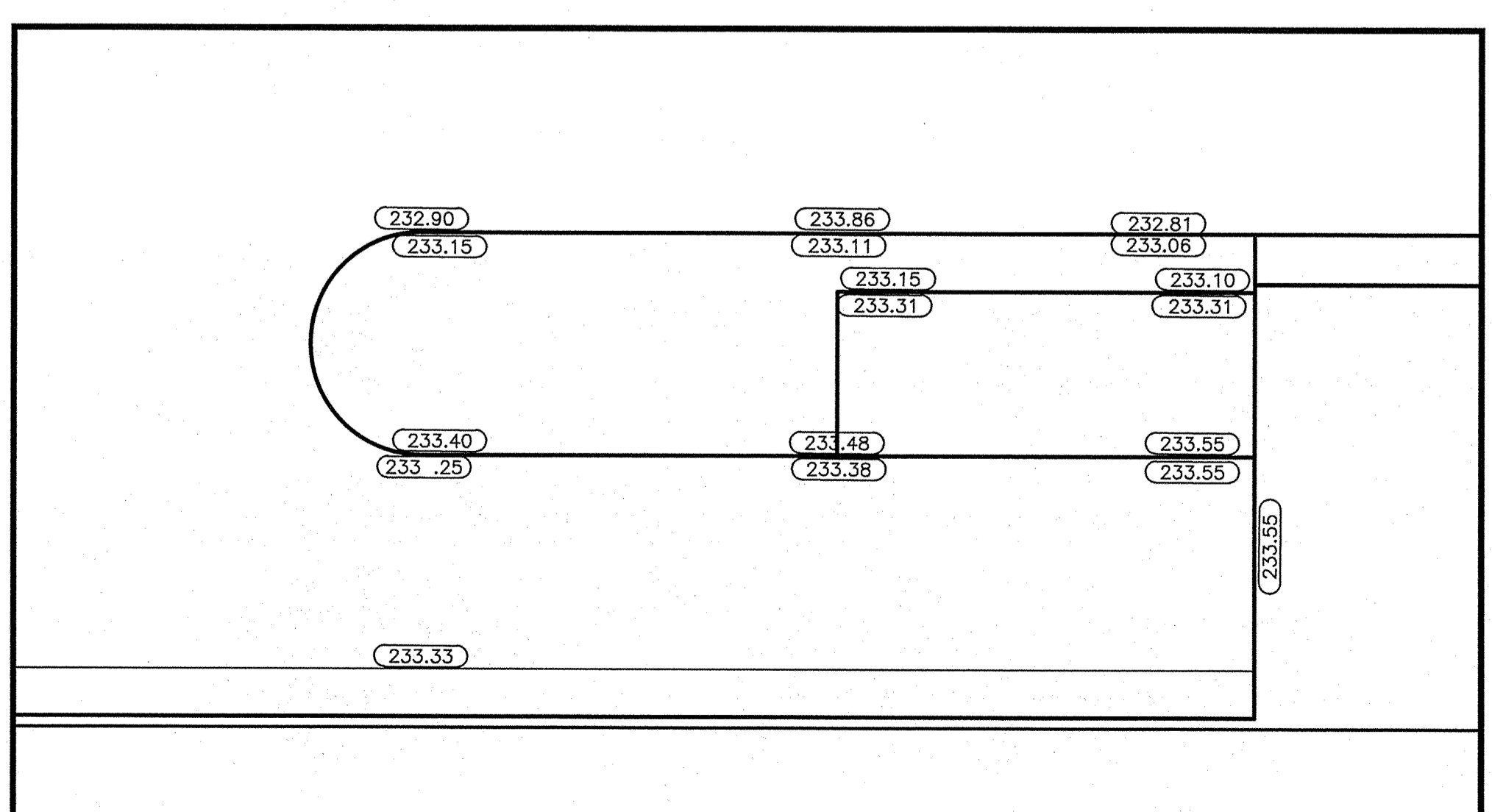
CURBING
SEE DRAWING C.601



TYPICAL C.B. DETAIL
N.T.S.



LEGAL DESCRIPTION:
PARCEL A8, PLAN No. 41210
PARCEL A & E, PLAN No. 49781



DETAIL "C"
SCALE: 1 TO 100

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EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	
---	WATERMAIN	---	---	ANODE	---	232.00	+232.00	ELEVATION	(232.000)
○	HYDRANT	●	△	REDUCER	△	+	+	SURVEY BAR	
○	VALVE	○	□	PLUG	□				
○	CURB STOP	○	○	TREE	○				
---	WASTE WATER SEWER	---	---	LAMP STANDARD	---				
---	LAND DRAINAGE SEWER	---	---	GAS	---				
○	MANHOLE	●	---	HYDRO	---				
□	CATCH BASIN	□	---	M.T.S.	---				
---	TEE	---	---	TRAFFIC SIGNAL	---				
---	BEND	---	---	CONCRETE/ASPHALT	---				
---	SIDEWALK	---	---	SIDEWALK	---				

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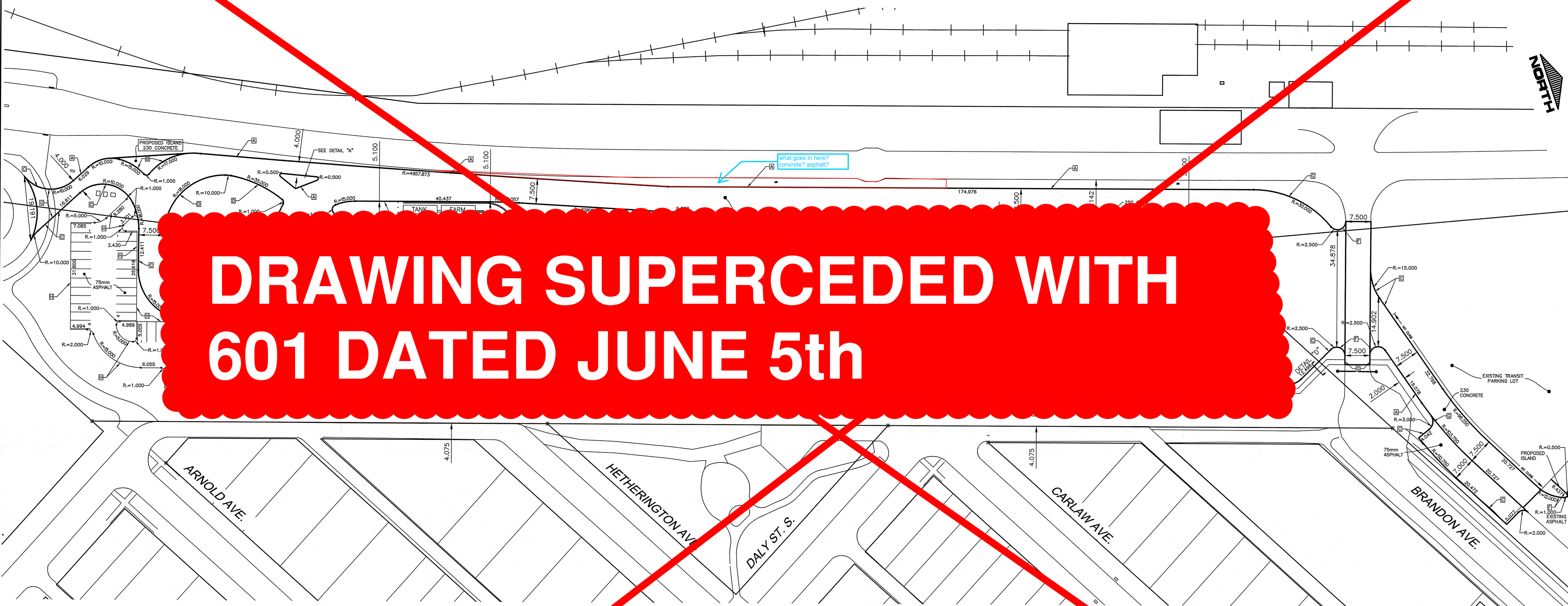
TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

PROJECT INFORMATION

Project number	121-18885-00
Date	October 5, 2012
Drawn by	R.H./M.B.S.
Checked by	I.McK

Scale: 1:500

ISSUED FOR 90% AND SUPERSTRUCTURE PERMIT	09/10/2012
ISSUED FOR 100% REVIEW	07/12/2012
ISSUED FOR CONSTRUCTION	27/02/2013



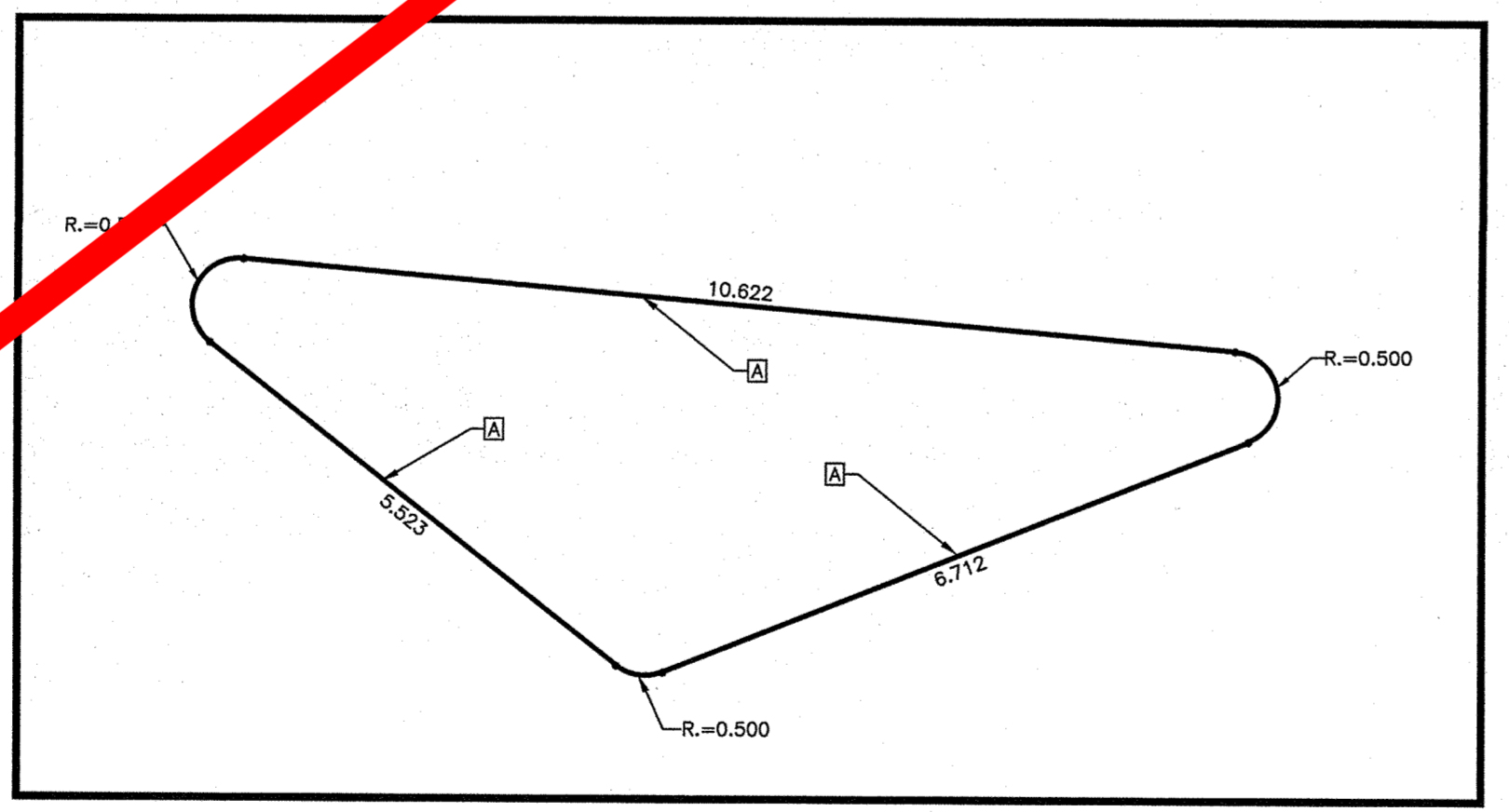
DRAWING SUPERCEDED WITH
601 DATED JUNE 5th

- CONSTRUCTION NOTES**
- USE GRANULAR BACKFILL FOR ALL UNDERGROUND WORKS INSTALLED UNDER PROPOSED PAVEMENT.
 - SEWERS TO BE PVC SDR 35.
 - PIPE INSTALLED UNDER EXISTING PAVEMENT TO BE AUGERED.
 - ALL VALVES ARE RED TOP VALVES, CLOCKWISE TO OPEN
 - ALL WORK TO CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 - RESTORE ALL BOULEVARD AND PAVEMENT AREAS.
 - LOCATION OF SIGNAGE AND COUPLERS TO BE SPECIFIED BY OTHERS.

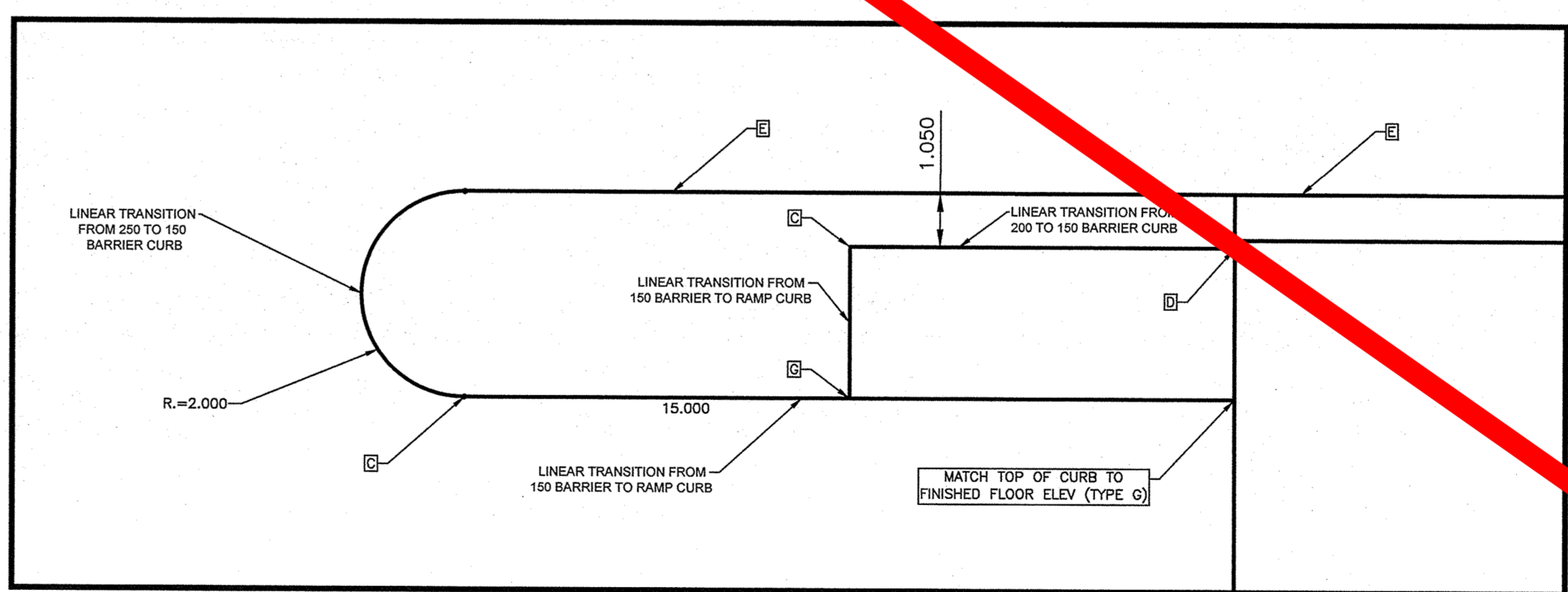
- CURBING**
- A MOUNTABLE CURB (SD-201)
 - B 90mm LIP CURB (SD-202A)
 - C 150mm BARRIER CURB (SD-204)
 - D 200mm BARRIER CURB (SD-204)
 - E 250MM BARRIER CURB (SD-204)
 - F MODIFIED BARRIER CURB (SD-203B)
 - G RAMP CURB (SD-229A TO SD-229E)
 - H 150 CURB AND GUTTER (SD-200)

PROPOSED PAVEMENT SECTIONS

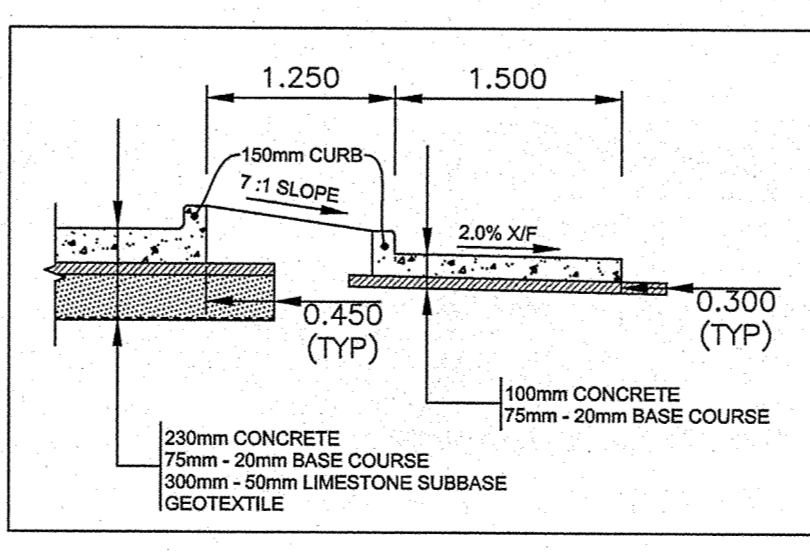
BUSWAYS	ASPHALT PARKING TRANSIT GARAGE	PAVER ISLAND
230 CONCRETE 100 BASE 300 SUB-BASE GEOTEXTILE	75 ASPHALT 100 BASE 300 SUB-BASE GEOTEXTILE	150 CONCRETE 15 BEDDING SAND 230 CONCRETE 100 BASE 300 SUB-BASE GEOTEXTILE



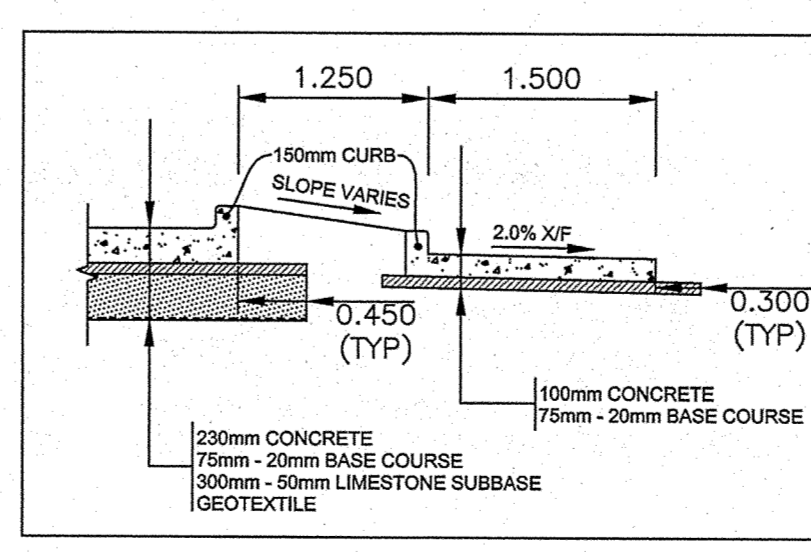
DETAIL "A"
SCALE: 1 TO 75



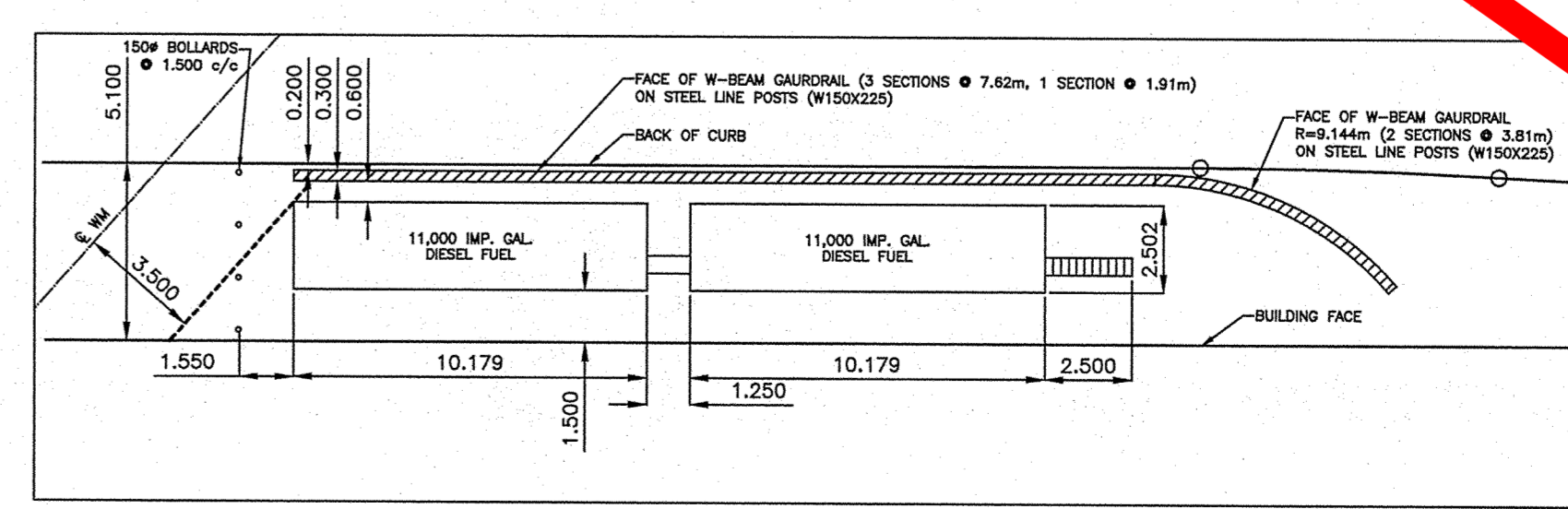
DETAIL "B"
SCALE: 1 TO 100



DETAIL "C"
N.T.S.

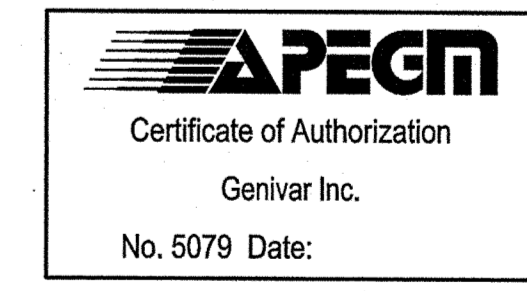


DETAIL "D"
N.T.S.



DETAIL "E"
SCALE: 1 TO 200

LEGAL DESCRIPTION:
PARCEL A8, PLAN No. 41210
PARCEL A & E, PLAN No. 49761



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GENIVAR
10 PRAIRIE WAY WINNIPEG, MANITOBA R2J 3J8
PH: (204)-477-6650 FAX: (204)-474-2864

TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

PAVEMENT GEOMETRY AND DETAILS

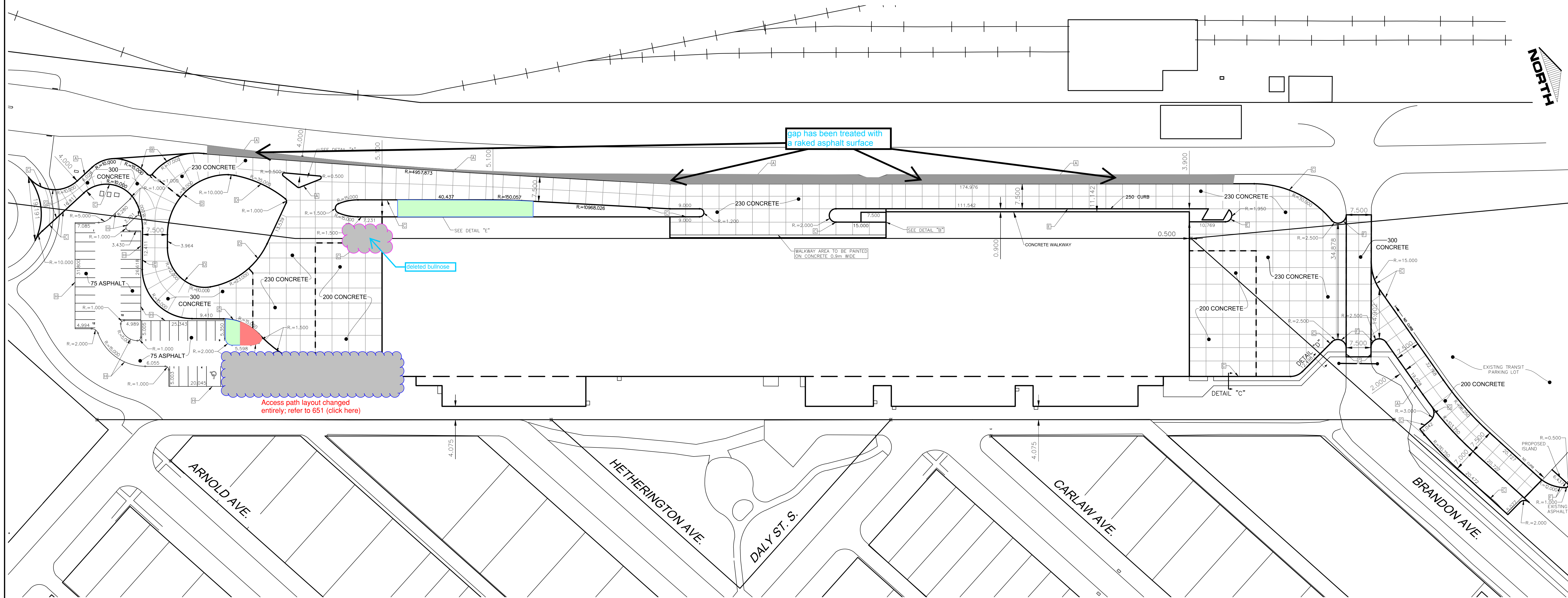
"Description of property limits, and existing and/or proposed features relative to these limits as shown on this drawing do not represent a Legal Survey. GENIVAR makes no representation or guarantee that the property line information is accurate. GENIVAR accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this drawing."

WATERMAIN	ANODE REDUCER	232.00 / ±232.00	ELEVATION SURVEY BAR	232.000
HYDRANT VALVE	PLUG			
CURB STOP	TREE			
WASTE WATER SEWER	LAMP STANDARD			
LAND DRAINAGE SEWER	GAS			
C.R. LEAD	HYDRO			
MANHOLE	M.T.S.			
CATCH BASIN	TRAFFIC SIGNAL			
TEE	CONCRETE/ASPHALT			
BEND	SIDEWALK			
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN
PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING

Project number	121-18685-00
Date	October 05, 2012
Drawn by	R.H./M.B.S
Checked by	I.McK

REVISIONS

NO.	DATE	DESCRIPTION
1	05/10/2012	ISSUED FOR 90% AND SUPERSTRUCTURE PERMIT
2	07/12/2012	ISSUED FOR 100% REVIEW
3	05/09/2013	ADDED JOINING PLAN AND REVISED PAVEMENT THICKNESS AND 100% REVIEW COMMENTS



- CONSTRUCTION NOTES**
- USE GRANULAR BACKFILL FOR ALL UNDERGROUND WORKS INSTALLED UNDER PROPOSED PAVEMENT.
 - SEWERS TO BE PVC SDR 35.
 - PIPE INSTALLED UNDER EXISTING PAVEMENT TO BE AUGERED.
 - ALL VALVES ARE RED TOP VALVES, CLOCKWISE TO OPEN.
 - ALL WORK TO CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 - RESTORE ALL BOULEVARD AND PAVEMENT AREAS.
 - LOCATION OF SIGNAGE AND COUPLERS TO BE SPECIFIED BY OTHERS.
 - TRANSITION FOR CHANGE IN PAVEMENT THICKNESS TO BE OVER ±5.0m JOINT SPACING

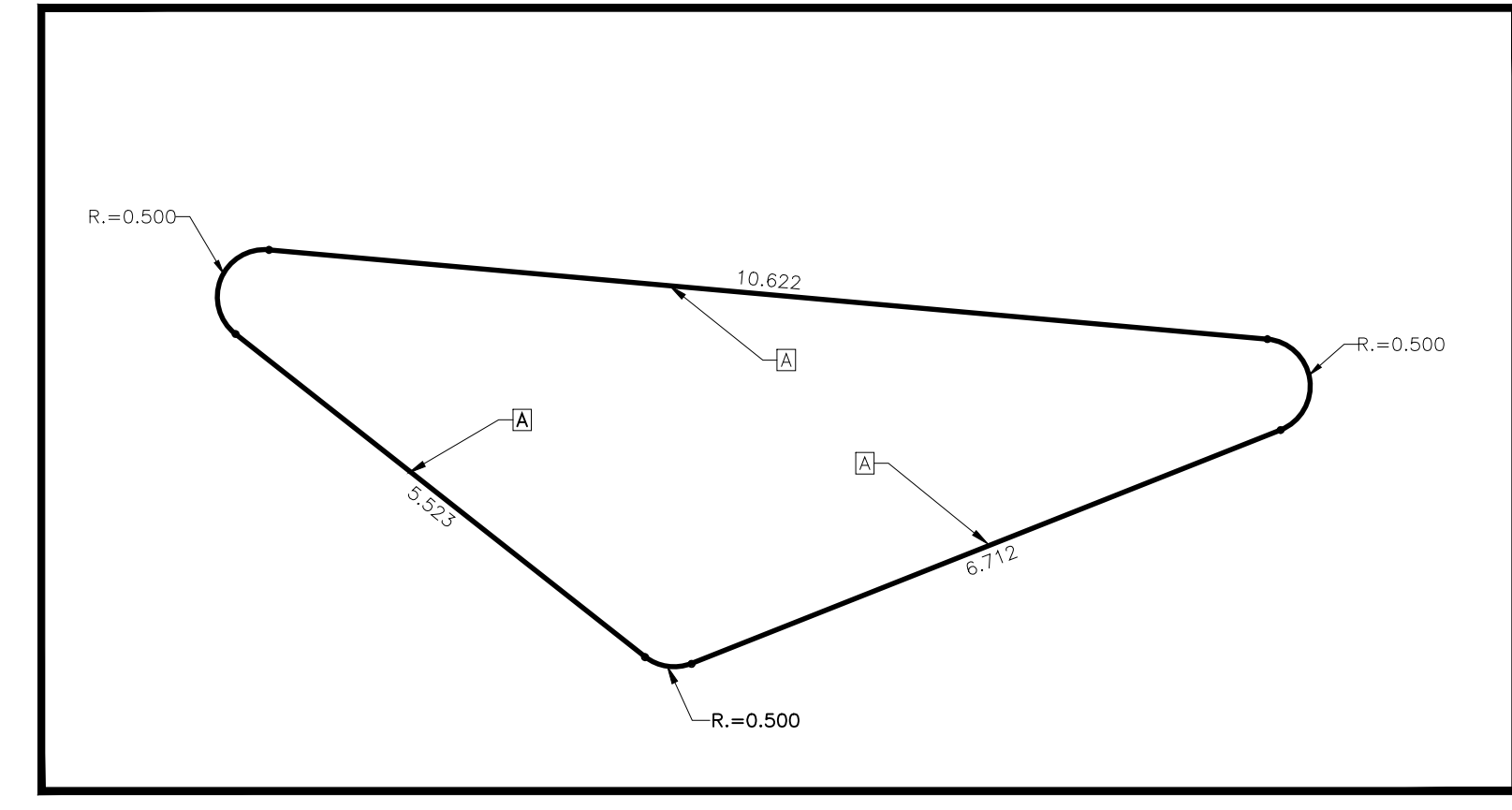
- CURBING**
- A MOUNTABLE CURB (SD-201)
 - B 90mm LIP CURB (SD-202A)
 - C 150mm BARRIER CURB (SD-204)
 - D 200mm BARRIER CURB (SD-204)
 - E 250MM BARRIER CURB (SD-204)
 - F MODIFIED BARRIER CURB (SD-203B)
 - G RAMP CURB (SD-229A TO SD-229E)
 - H 150 CURB AND GUTTER (SD-200)

PROPOSED PAVEMENT SECTIONS

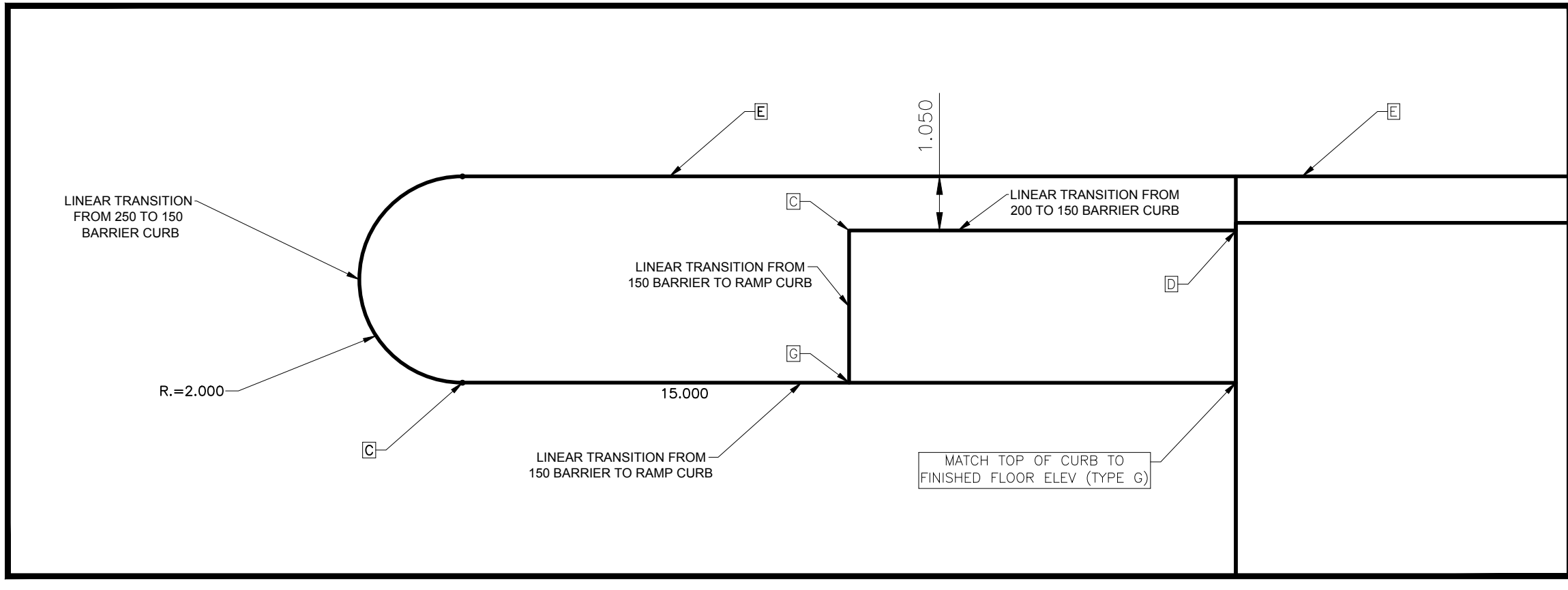
BUSWAYS	ASPHALT	PARKING
200,230,300 CONCRETE	75 ASPHALT	
100 BASE	100 BASE	
300 SUB-BASE	300 SUB-BASE	
GEOTEXTILE	GEOTEXTILE	

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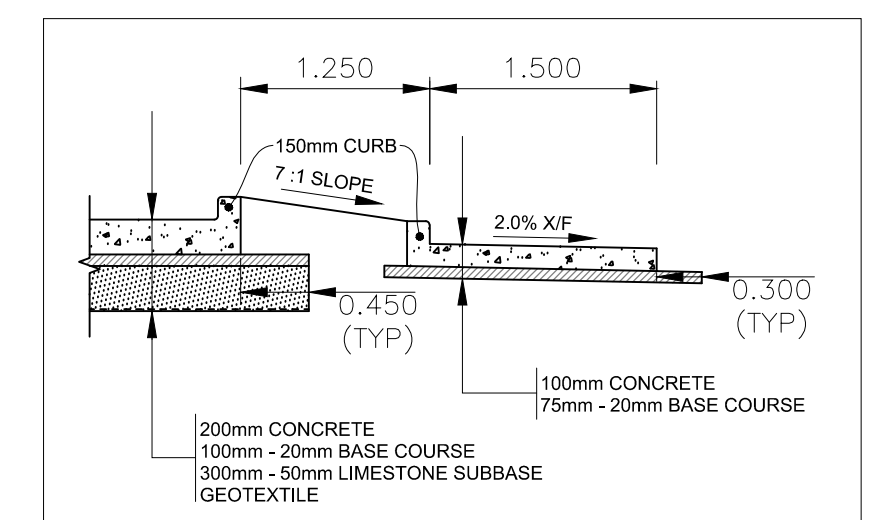
EXISTING	LEGEND	PLAN	PROPOSED	EXISTING	LEGEND	PLAN	PROPOSED	EXISTING	LEGEND	PLAN	PROPOSED
---	WATERMAIN	---	---	---	ANODE REDUCER	---	---	232.00	+	232.00	232.000
+	HYDRANT	+	+	+	PLUG	+	+	---	+	---	---
+	VALVE	+	+	+	TREE	+	+	---	---	---	---
+	CURB STOP	+	+	+	LAMP STANDARD	+	+	---	---	---	---
---	WASTE WATER SEWER	---	---	---	GAS	---	---	---	---	---	---
---	LAND DRAINAGE SEWER	---	---	---	HYDRO	---	---	---	---	---	---
---	C.B. LEAD	---	---	---	M.T.S.	---	---	---	---	---	---
○	MANHOLE	○	○	---	TRAFFIC SIGNAL	---	---	---	---	---	---
□	CATCH BASIN	□	□	---	CONCRETE/ASPHALT	---	---	---	---	---	---
+	TEE	+	+	---	SIDEWALK	---	---	---	---	---	---
+	BEND	+	+	---	---	---	---	---	---	---	---



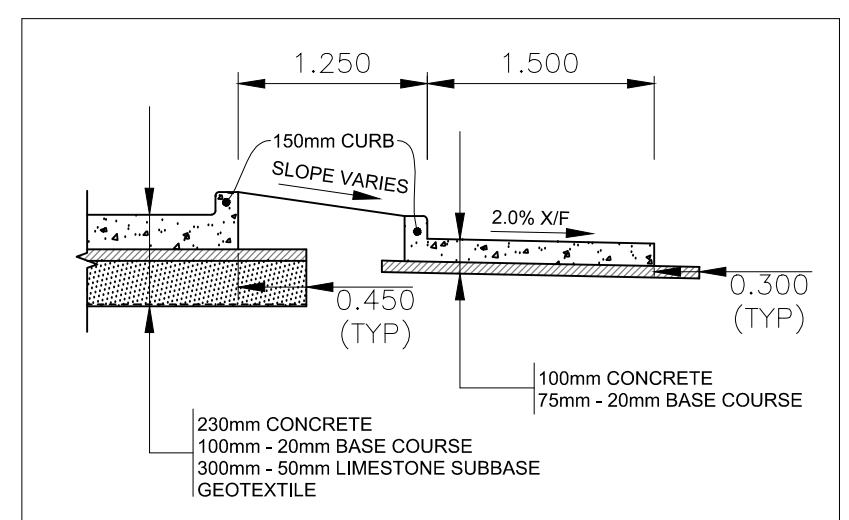
DETAIL "A"
SCALE: 1 TO 75



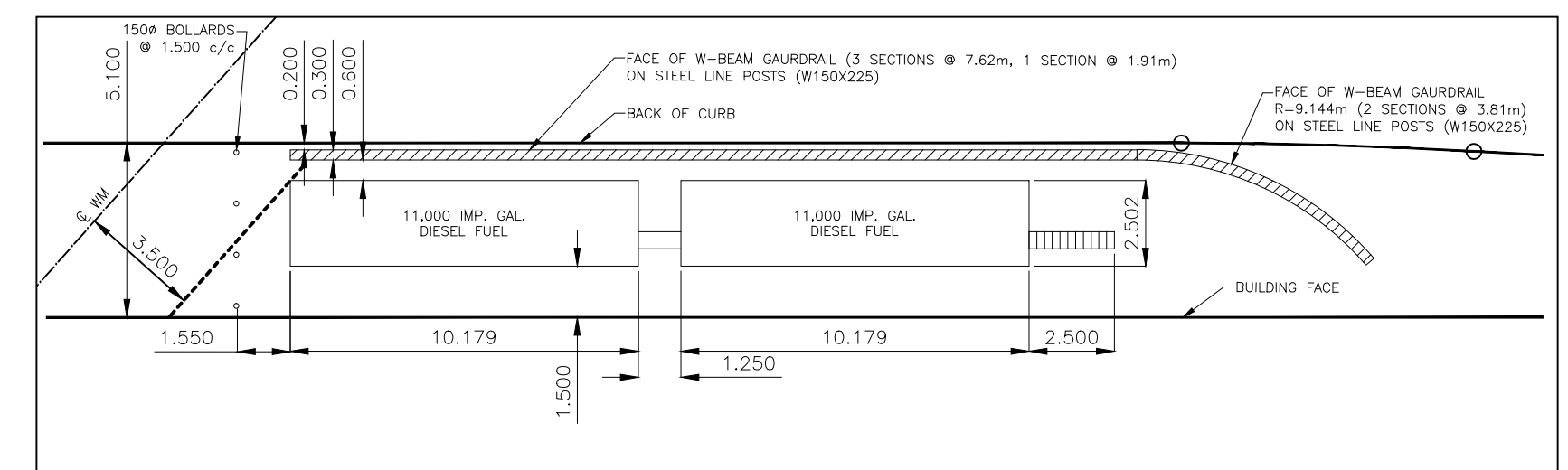
DETAIL "B"
SCALE: 1 TO 100



DETAIL "C"
N.T.S.

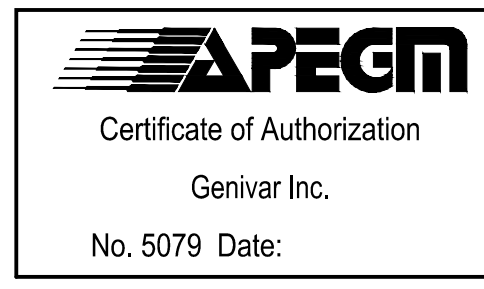


DETAIL "D"
N.T.S.



DETAIL "E"
SCALE: 1 TO 200

LEGAL DESCRIPTION:
PARCEL A8, PLAN No. 41210
PARCEL A & E, PLAN No. 49761



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GENIVAR
10 PRAIRIE WAY, WINNIPEG, MANITOBA R2J 3J8
PH: (204)-477-6650 FAX: (204)-474-2864

TRANSIT BUS PARKING & SERVICE GARAGE

600 Brandon Ave, Winnipeg, Manitoba

PAVEMENT GEOMETRY AND DETAILS

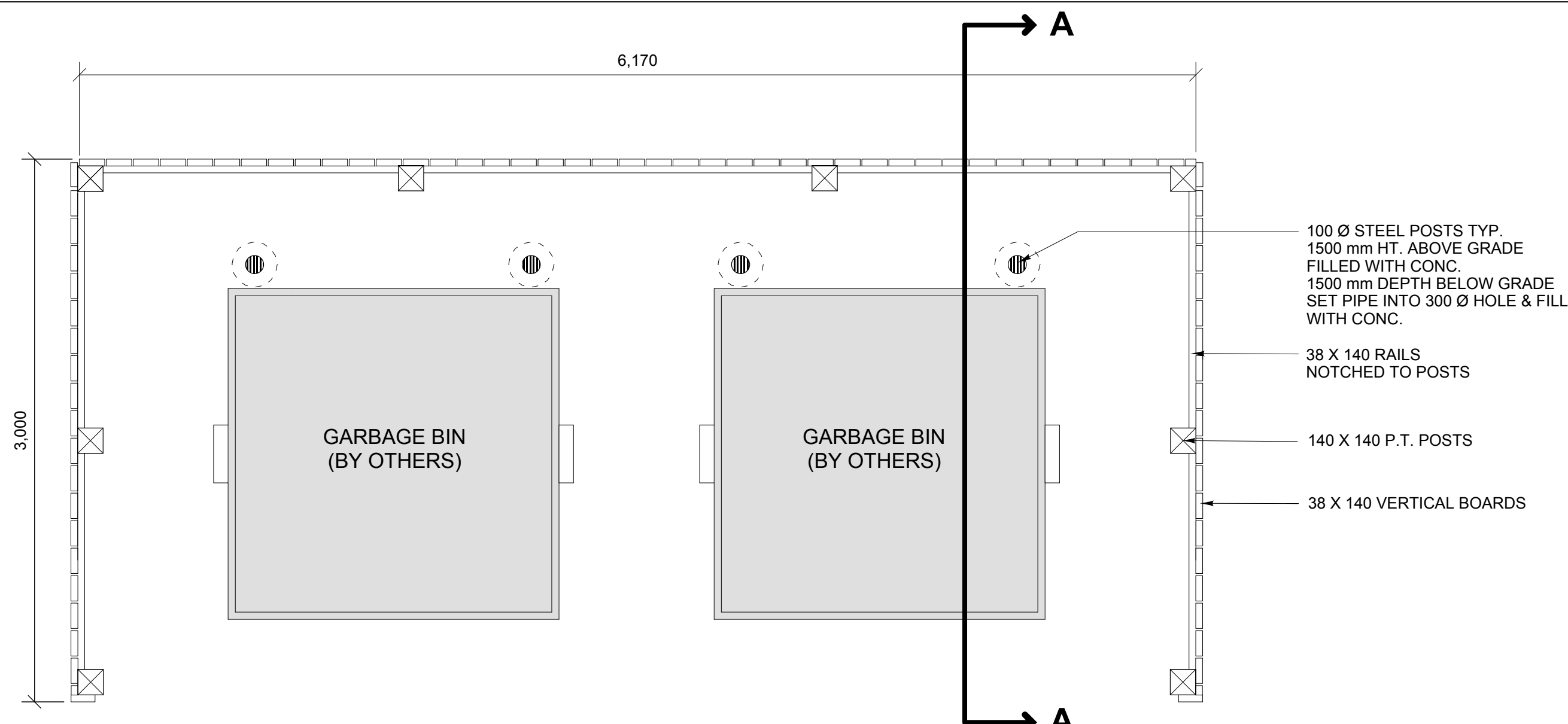
Project number	121-18685-00
Date	October 05, 2012
Drawn by	R.H.M.B.S
Checked by	I.McK

Scale 1:500

L:\Projects\2012\121-18685-0003 DWGS\04 Working Dwg\04 Civil\ Pavement Geometry - 2013-06-05.dwg

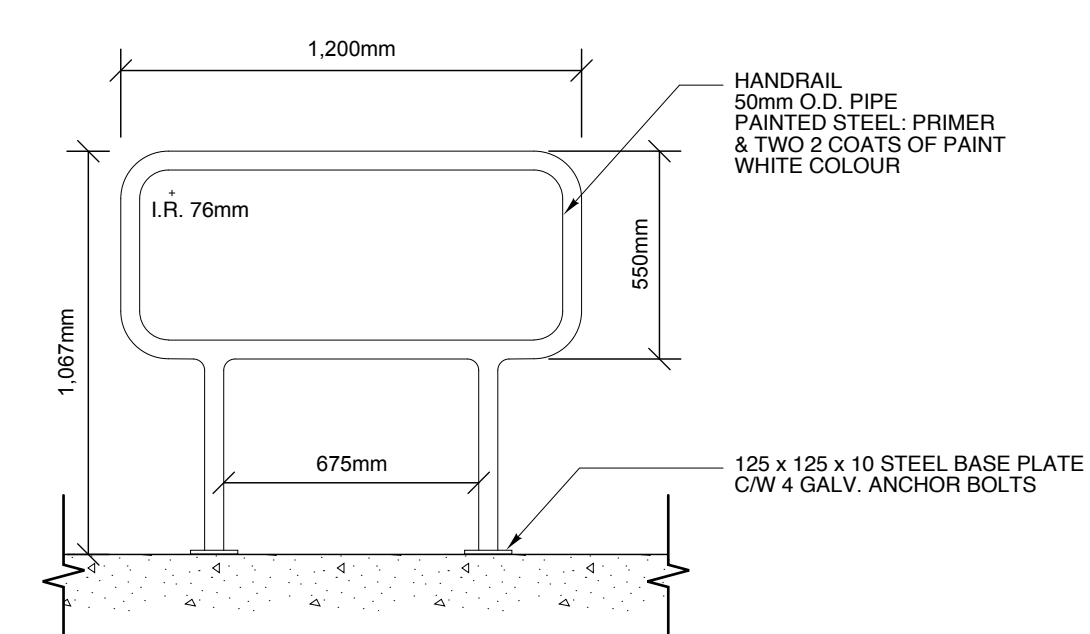


REVISION/ISSUED/PLOTTED	DATE
Issued for 60% Review	July 18 / 2012
Issued for 90% Review	Oct. 5 / 2012
Issued for 95% Review	Nov. 6 / 2012
Issued for 100% Review	Dec. 7 / 2012
Issued for Construction	Feb. 27 / 2013

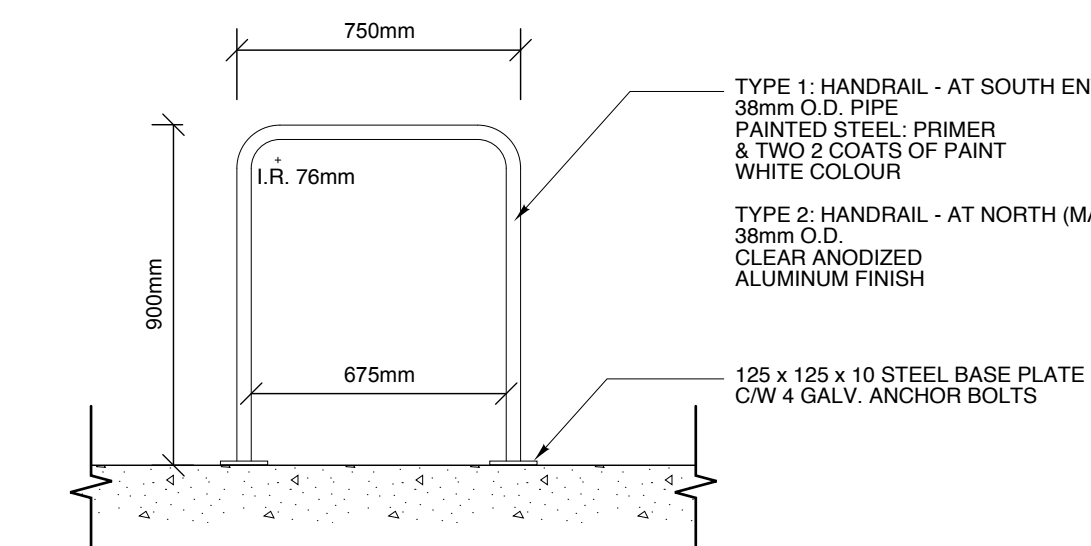


- NOTES:**
- ADJUST ANGLE OF FENCE AS REQUIRED TO FIT THE SPACE CONFIGURATION ON SITE. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
 - ALL HARDWARE TO BE HOT DIPPED GALVANIZED.
 - ALL WOOD TO BE PRESSURE TREATED GRADE 2 OR BETTER. COLOUR BROWN.

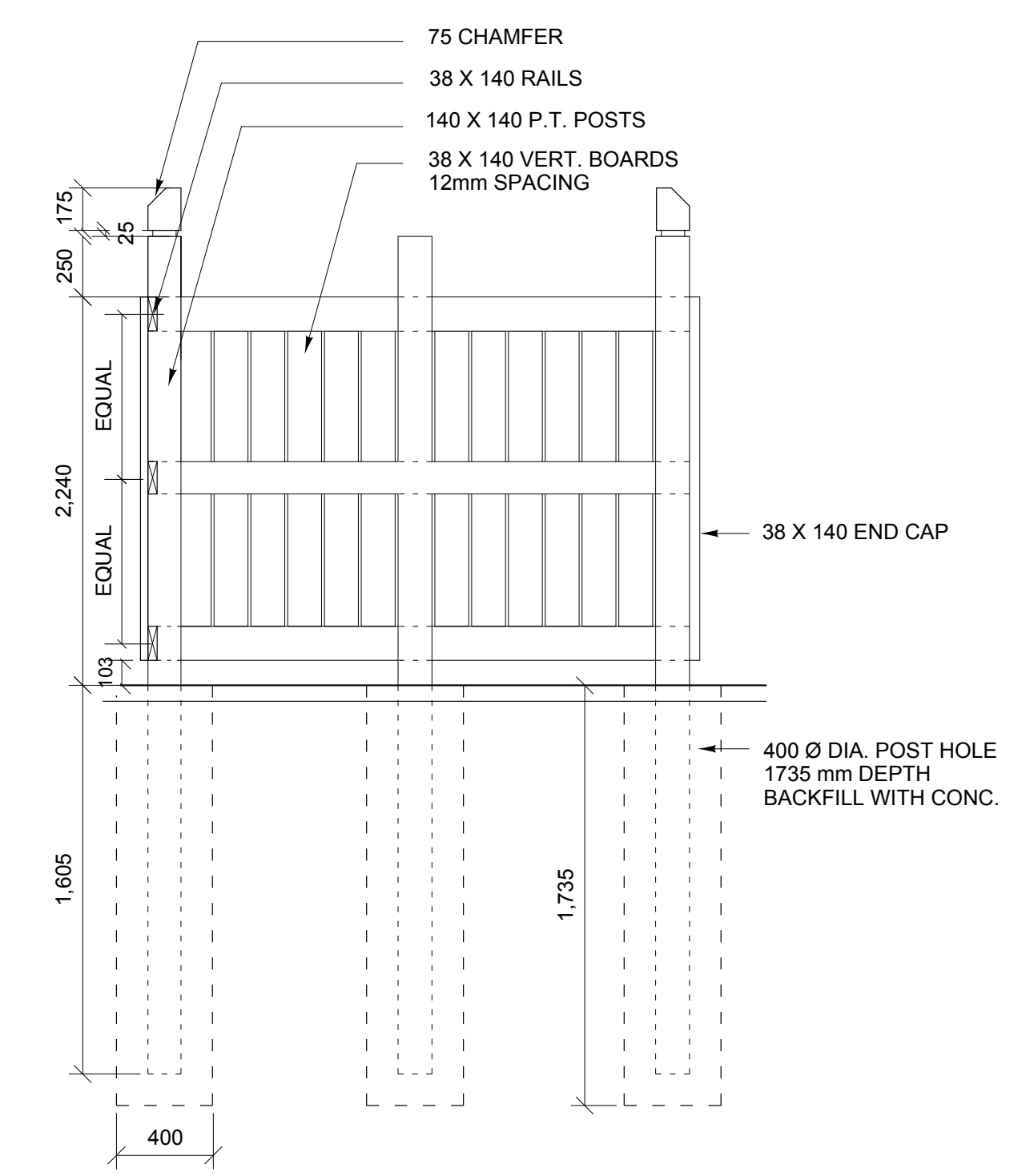
1 GARBAGE ENCLOSURE
651 1:25



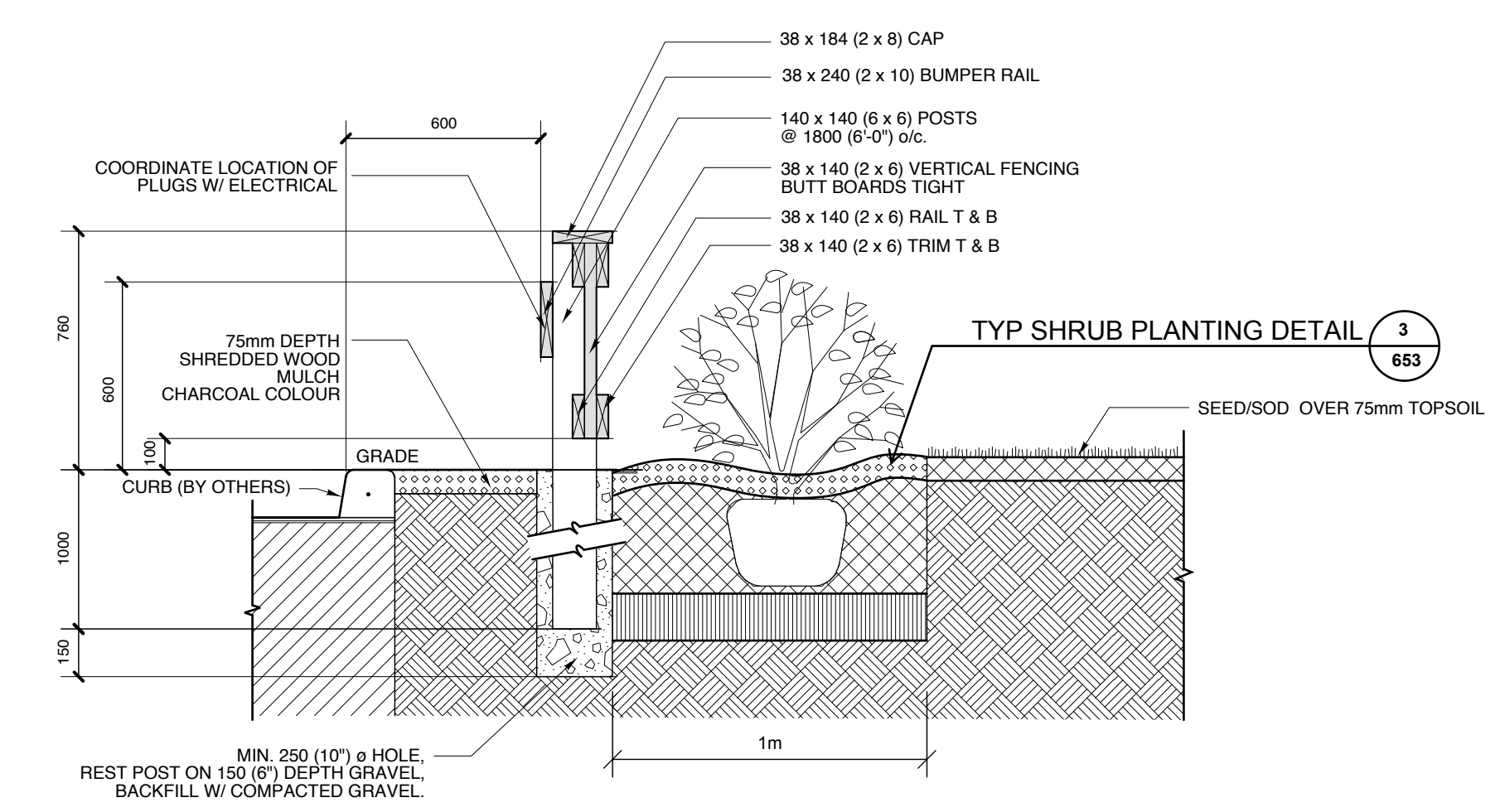
3 RAILING
651 1:20



4 RAILING @ ENTRYWAYS
651 1:20

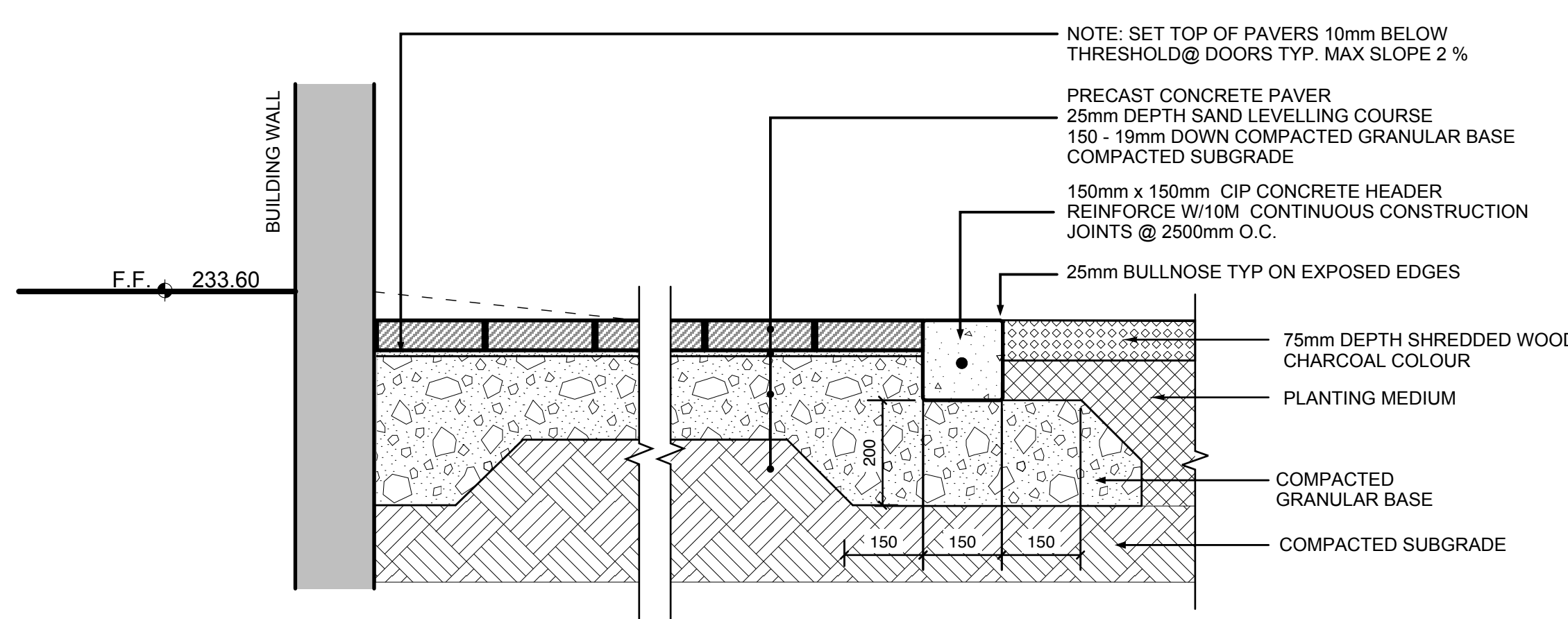


SECTION A-A

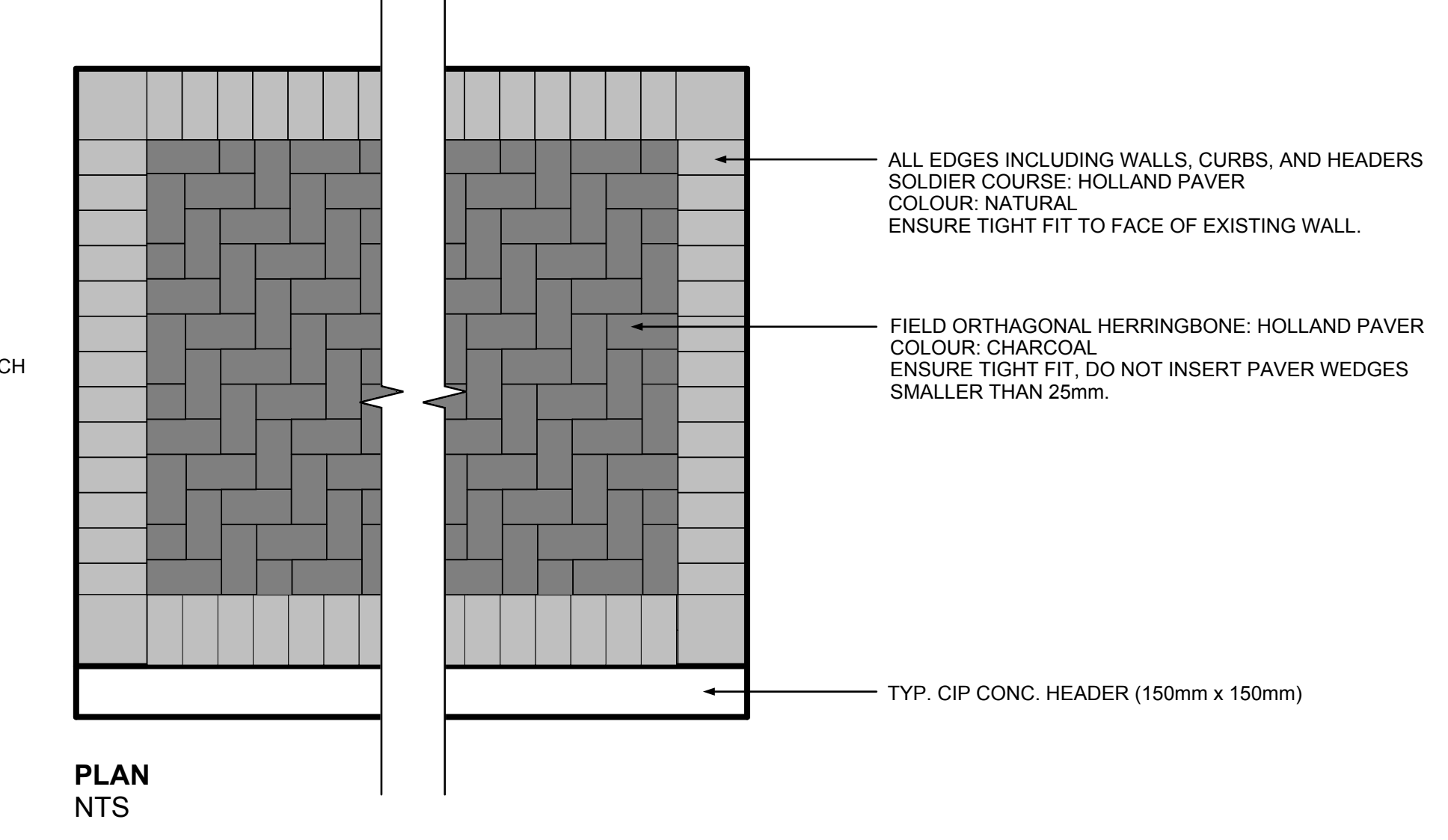


NOTE:
All hardware to be hot dipped galvanized.
Wood for fence to be pressure treated pine, brown colour.

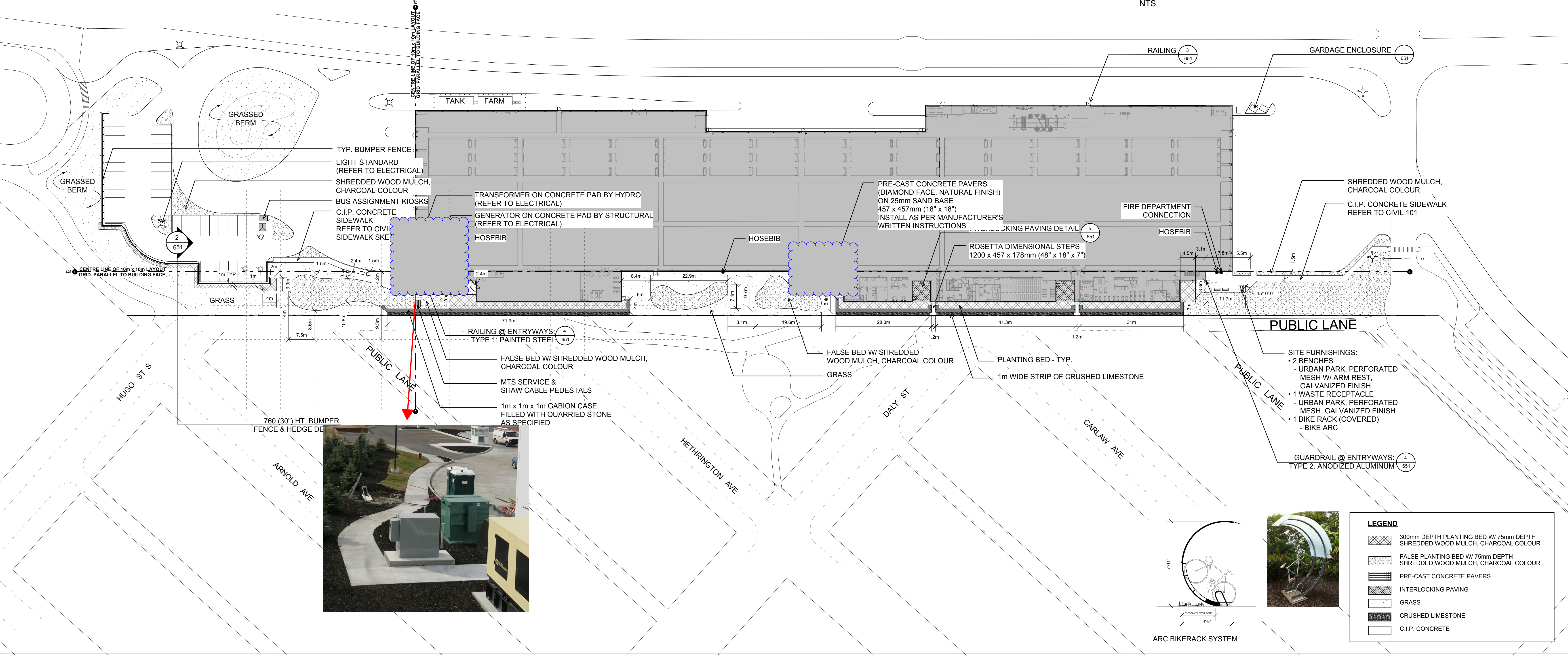
2 760 (30") HT. BUMPER FENCE & HEDGE DETAIL
651 1:20



5 INTERLOCKING PAVING DETAIL
651 1:10



PLAN NTS



LEGEND

- 300mm DEPTH PLANTING BED W/ 75mm DEPTH SHREDDED WOOD MULCH, CHARCOAL COLOUR
- FALSE PLANTING BED W/ 75mm DEPTH SHREDDED WOOD MULCH, CHARCOAL COLOUR
- PRE-CAST CONCRETE PAVERS
- INTERLOCKING PAVING
- GRASS
- CRUSHED LIMESTONE
- C.I.P. CONCRETE



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consultant
HILDERMAN THOMAS FRANK CRAM
Landscape Architecture & Planning
100 St. Boniface Avenue East, Winnipeg, Manitoba, R2L 0A7
Telephone: (204) 786-1111 Fax: (204) 786-1112
www.hil提高man.com

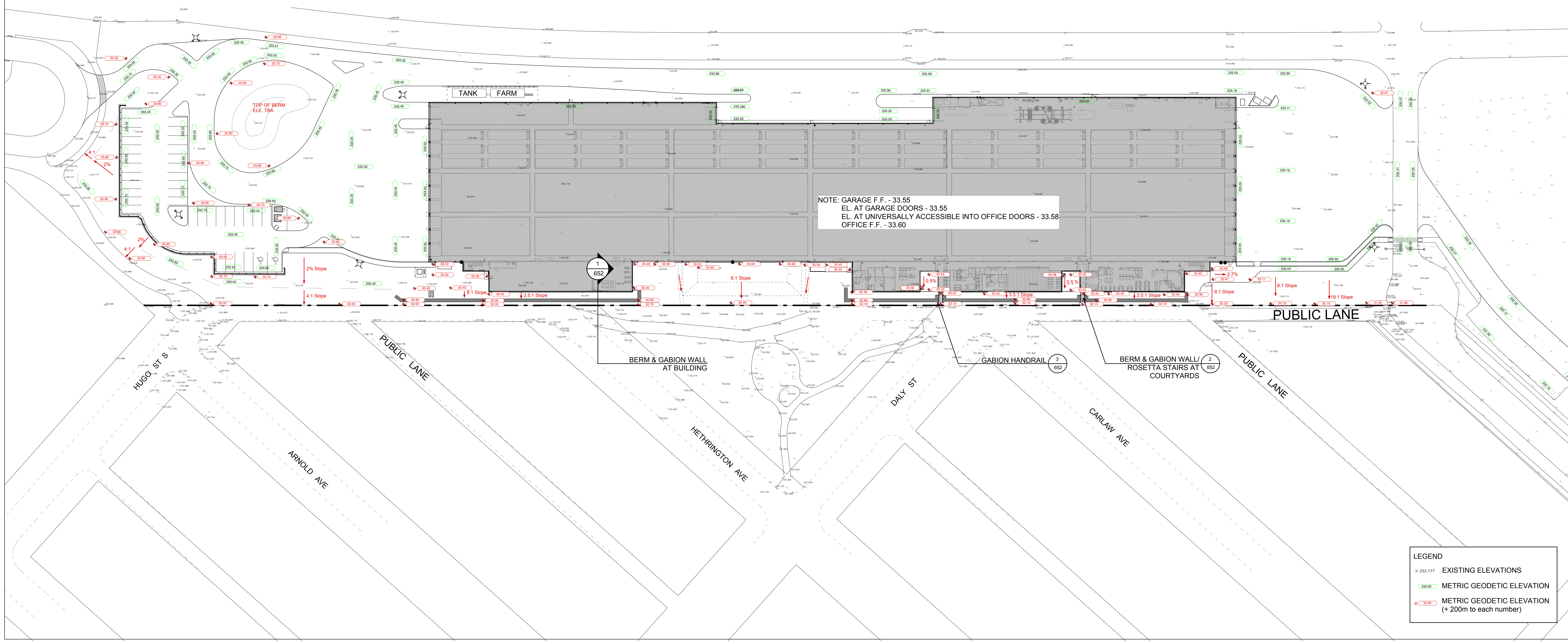
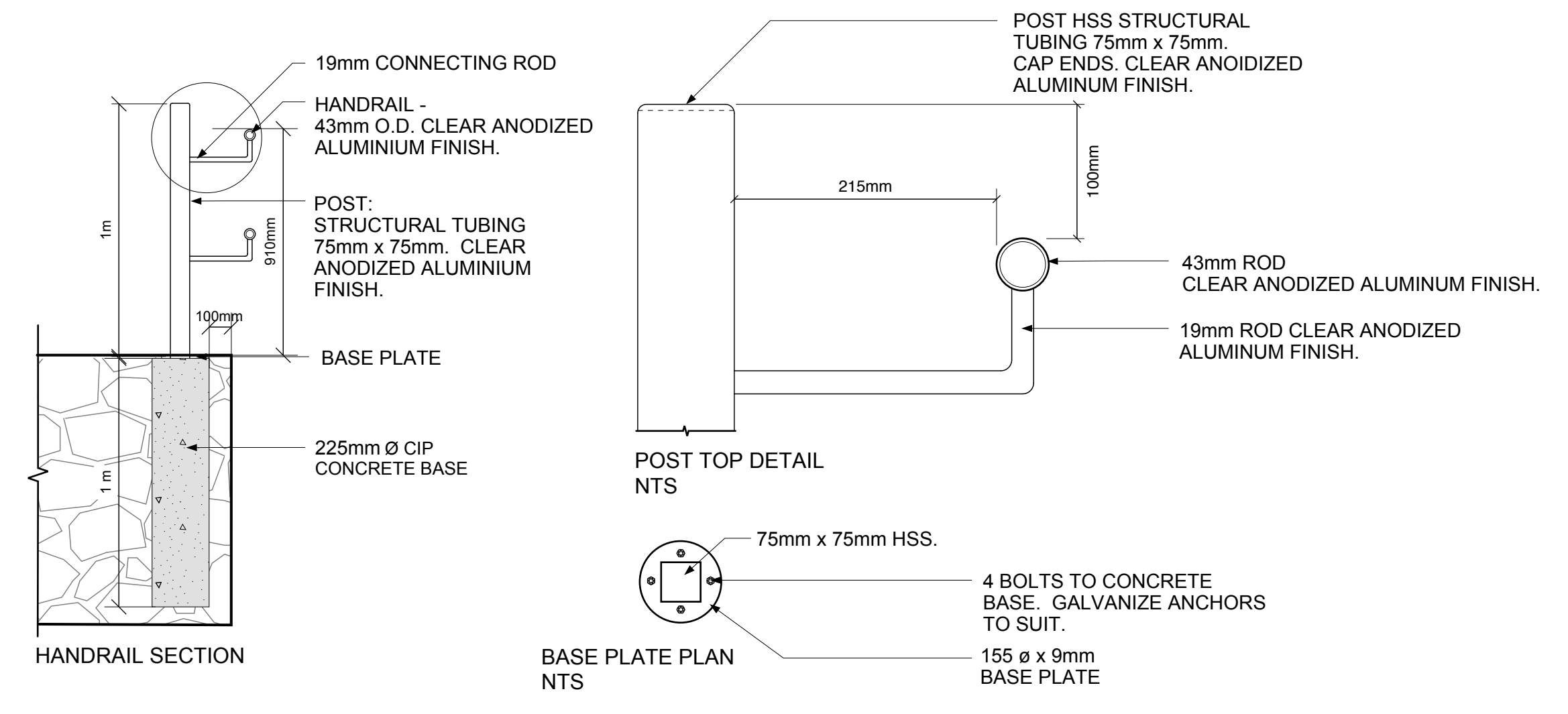
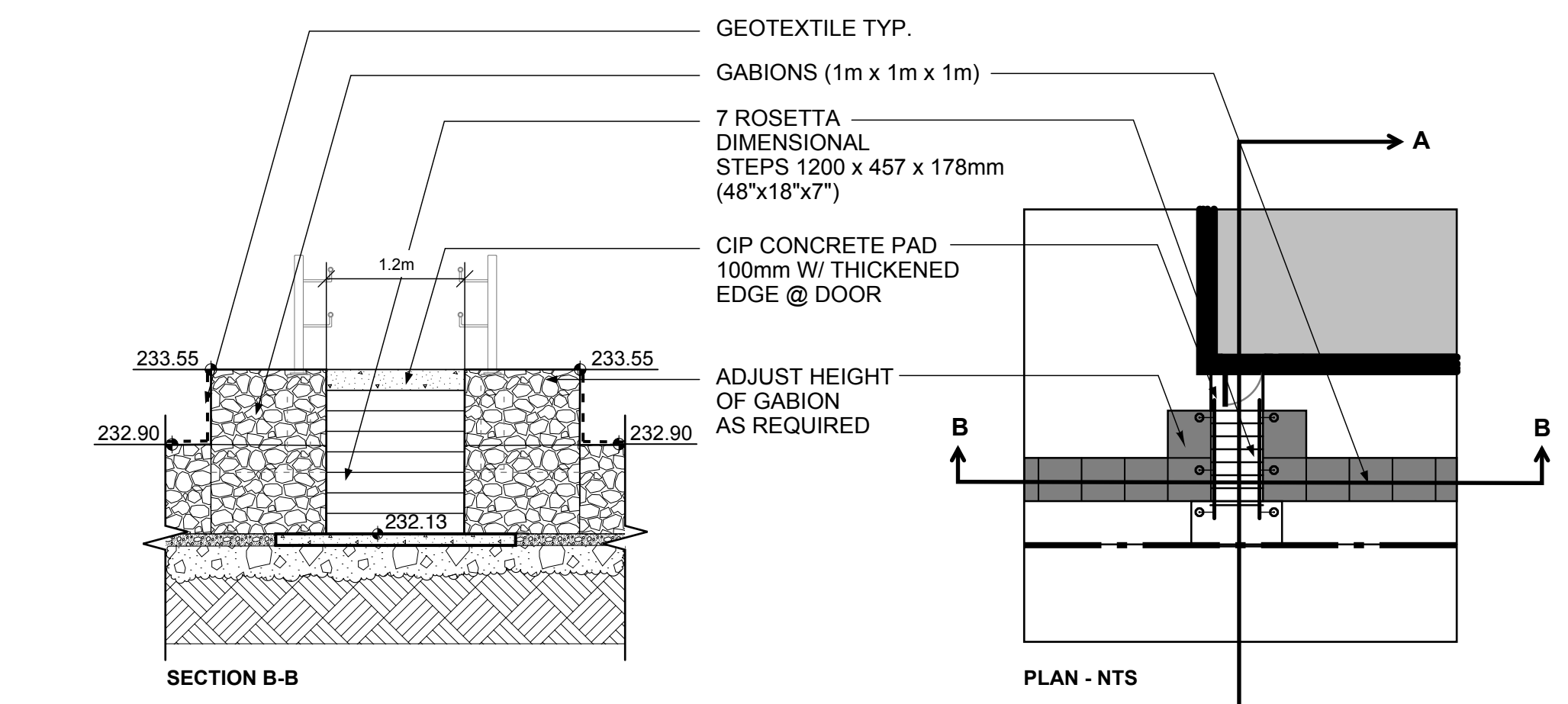
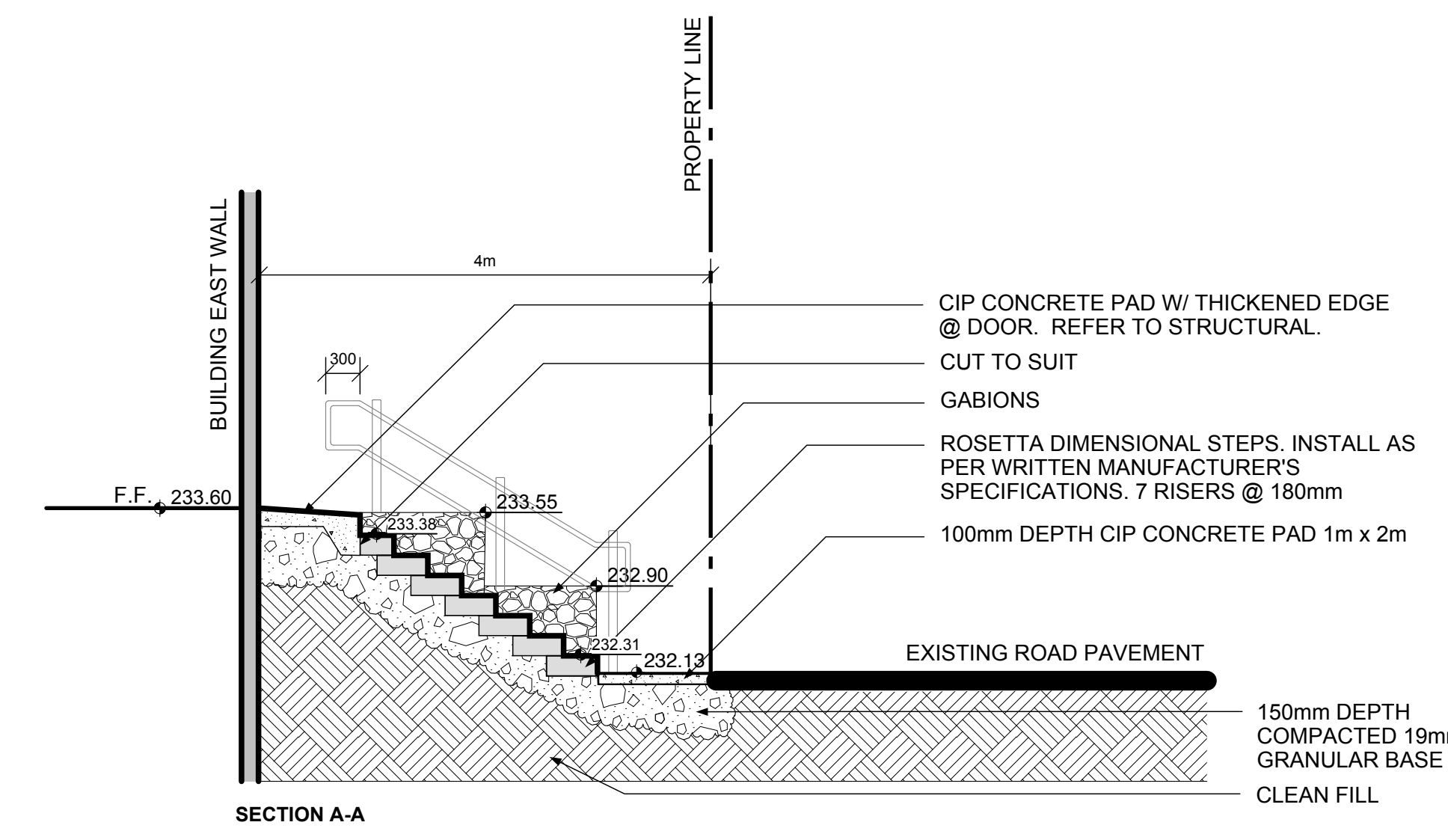
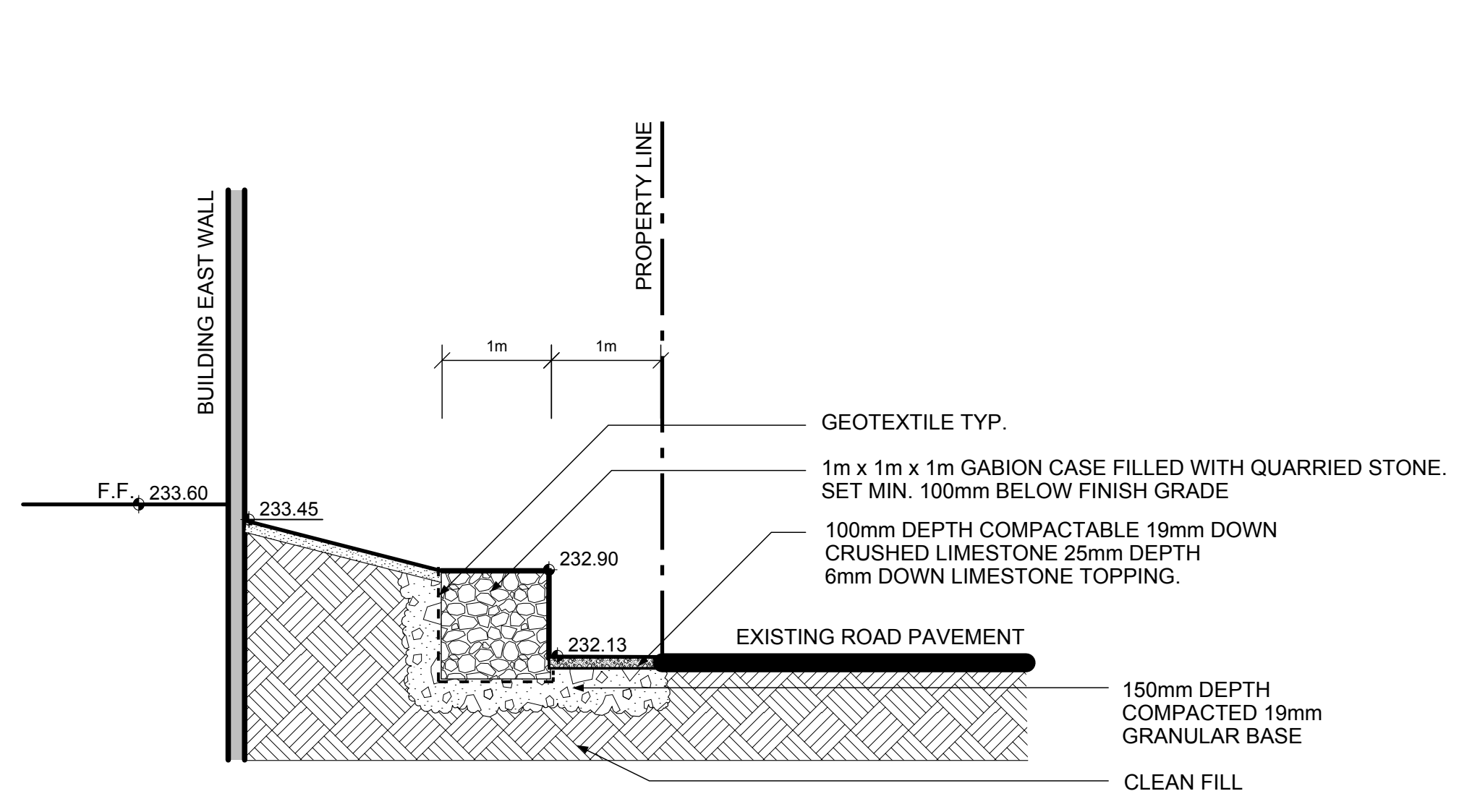
TRANSIT BUS PARKING & SERVICE GARAGE
600 Brandon Ave, Winnipeg, Manitoba

LANDSCAPE LAYOUT & MATERIALS

Project number	12-044
Date	February 20, 2013
Drawn by	LR
Checked by	NJ/JF



REVISION/ISSUED/ PLOTTED	DATE
Issued for 60% Review	July 18 / 2012
Issued for 90% Review	Oct. 5 / 2012
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consultant
HILDERMAN THOMAS FRANK CRAM
 Landscape Architecture & Planning
 1001 St. Boniface Avenue East, Winnipeg, Manitoba, R2L 2K1
 Telephone: (204) 786-1111 Fax: (204) 786-1112
 www.hil提高man.com

TRANSIT BUS PARKING & SERVICE GARAGE
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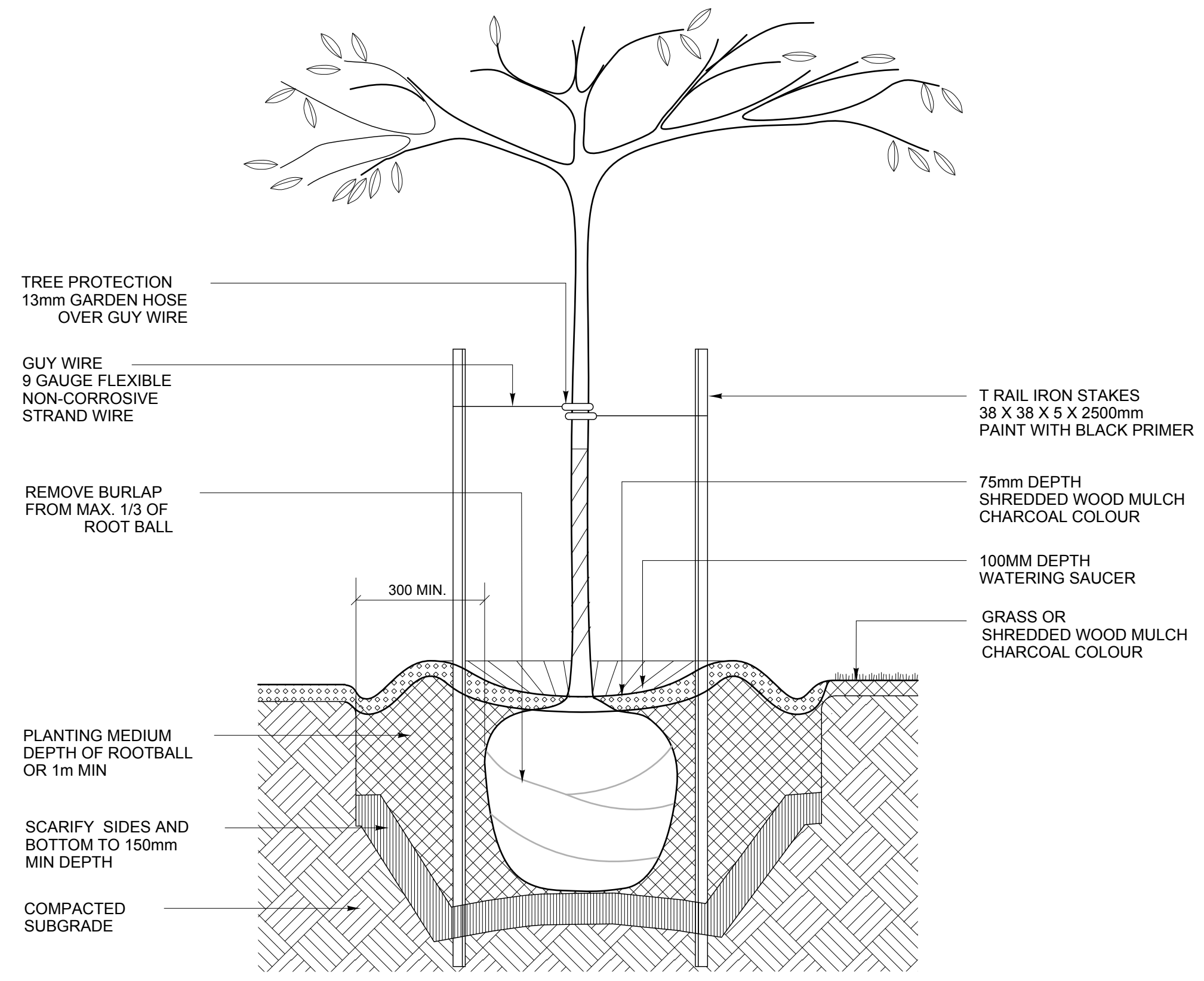
LANDSCAPE GRADING

Project number	12-044
Date	February 20, 2013
Drawn by	LR
Checked by	NJ / JF

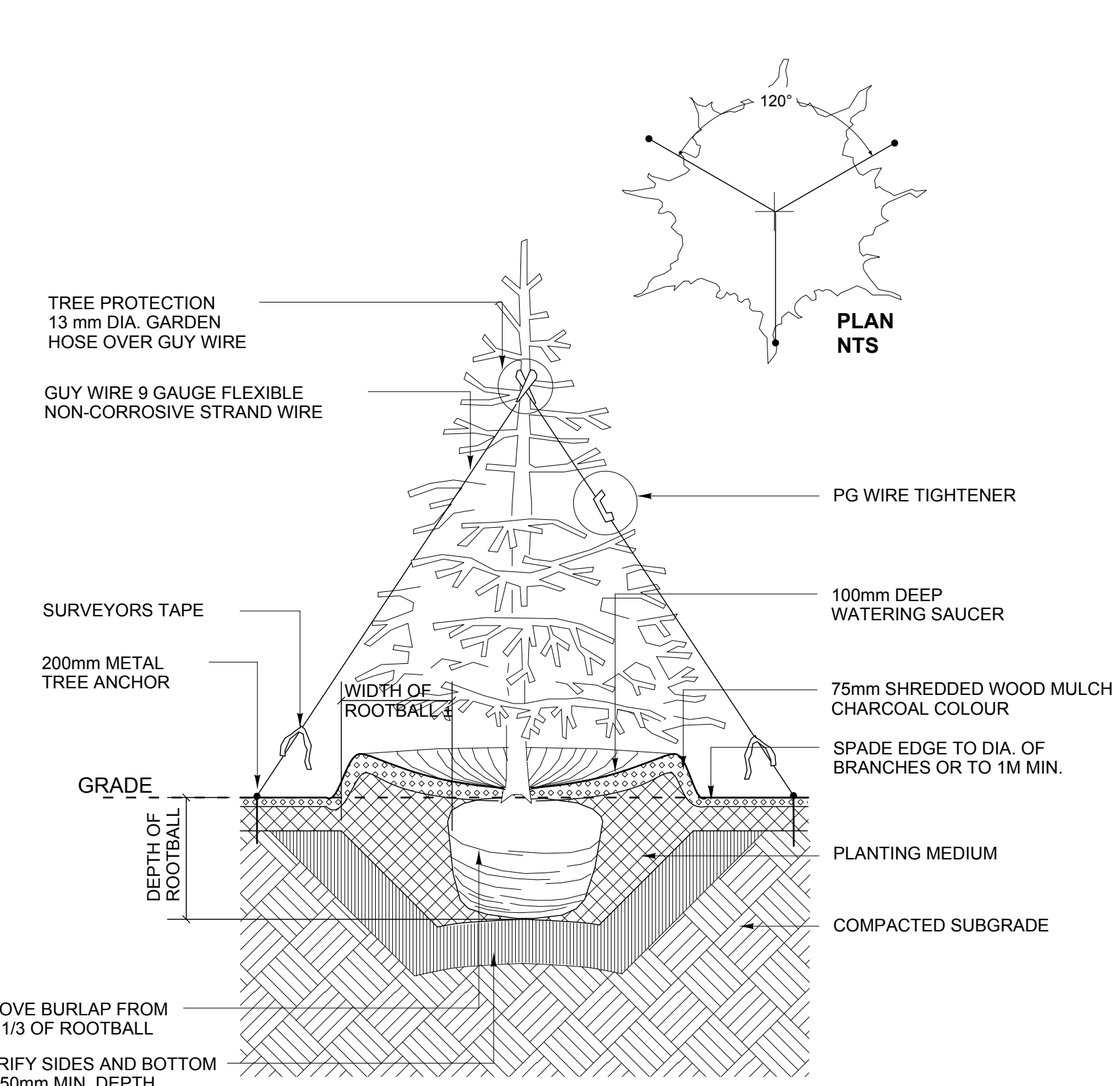
Scale 1:500
 0 10 20 **652**



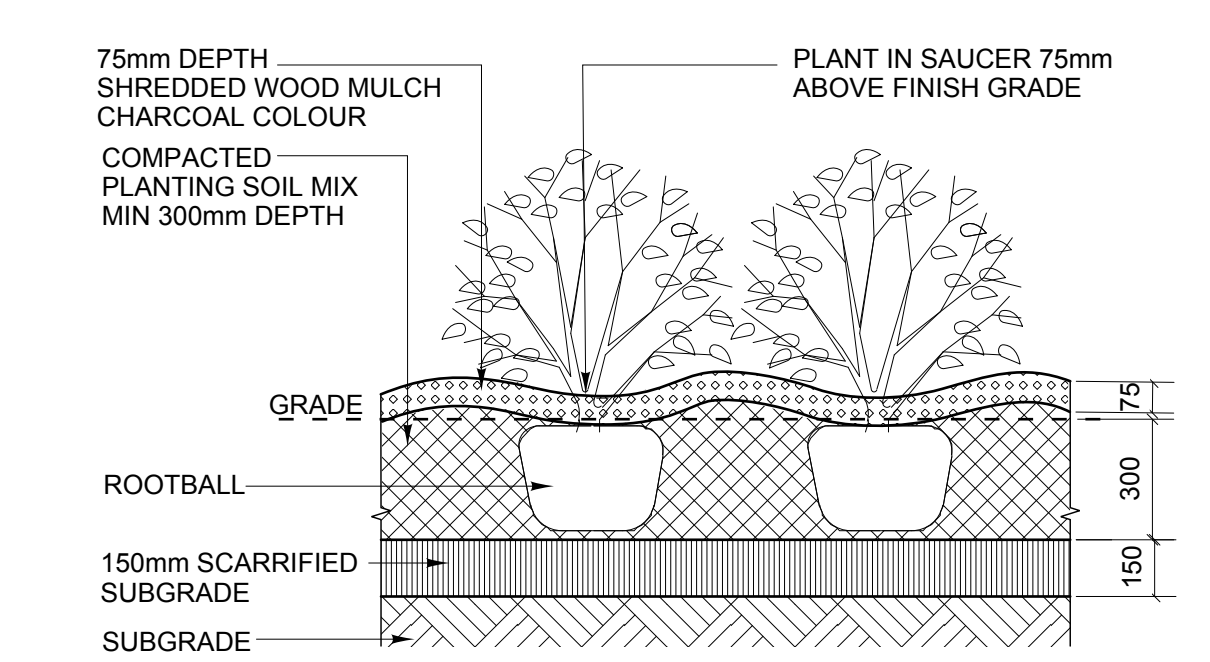
QTY	BOTANICAL/ COMMON NAME	SIZE/ REMARKS
Coniferous Trees		
64	<i>Picea pungens</i> 'Glauca' / Colorado Blue Spruce	20 @ 1.8m ht. (6'), 20 @ 2.0m ht. (7'), 24 @ 2.4m ht. (8'). Evenly branched, full bushy trees, no broken leaders, well branched to grade. B&B. Wire basket.
Deciduous Trees		
9	<i>Fraxinus pennsylvanica</i> / Green Ash	65mm (2.5") cal., 4.5 to 5.75m ht., 11 major branches in well formed head 1.8m above grade, B&B, wire basket. Double stake.
5	<i>Malus</i> x 'Spring Snow' / Spring Snow Crabapple	65mm (2.5") cal., 3.5 to 5.0m ht., 11 major branches in well formed head 1.8m above grade, B&B, wire basket. Double stake.
3	<i>Tilia cordata</i> 'Greenspire' / Greenspire Linden	65mm (2.5") cal., 4.5 to 5.75m ht., 11 major branches in well formed head 1.8m above grade, B&B, wire basket. Double stake.
Coniferous Shrubs		
42	<i>Juniperus sabina</i> 'Blue Danube' / Blue Danube Juniper	450mm (18") ø, well formed, even growth. Container stock.
7	<i>Juniperus sabina</i> 'Skandia' / Skandia Juniper	450mm (18") ø, well formed, even growth. Container stock.
14	<i>Pinus mugo</i> / Mugo Pine	600mm (24") ø, well formed, even growth. Container stock.
Deciduous Shrubs		
84	<i>Ribes alpinum</i> / Alpine Currant	300-400mm (12-15") ht. min. 4 major basal branches. Well formed, bushy plants. Container stock.
10	<i>Spiraea x bumalda</i> 'Anthony Waterer' / Anthony Waterer Spiraea	300-400mm (12-15") ht. min. 4 major basal branches. Well formed, bushy plants. Container stock.
5	<i>Shepherdia argentea</i> / Silver Buffaloberry	400-500mm (16-20") ht. min. 4 major basal branches. Well formed, bushy plants. Container stock.
52	<i>Syringa patula</i> 'Miss Kim' / Miss Kim Lilac	300-400mm (12-15") ht. min. 4 major basal branches. Well formed, bushy plants. Container stock.
Grasses & Vines		
26	<i>Festuca ovina glauca</i> 'Elijah Blue' / Elijah Blue Fescue Grass	2 yr. plants from division. No. 1 grade, well developed, vigorous root system.
80	<i>Vinca minor</i> / Periwinkle	2 yr. plants from division. No. 1 grade, well developed, vigorous root system.
318	<i>Parthenocissus quinquefolia</i> / Virginia Creeper	2 yr. plants from division. No. 1 grade, well developed, vigorous root system.



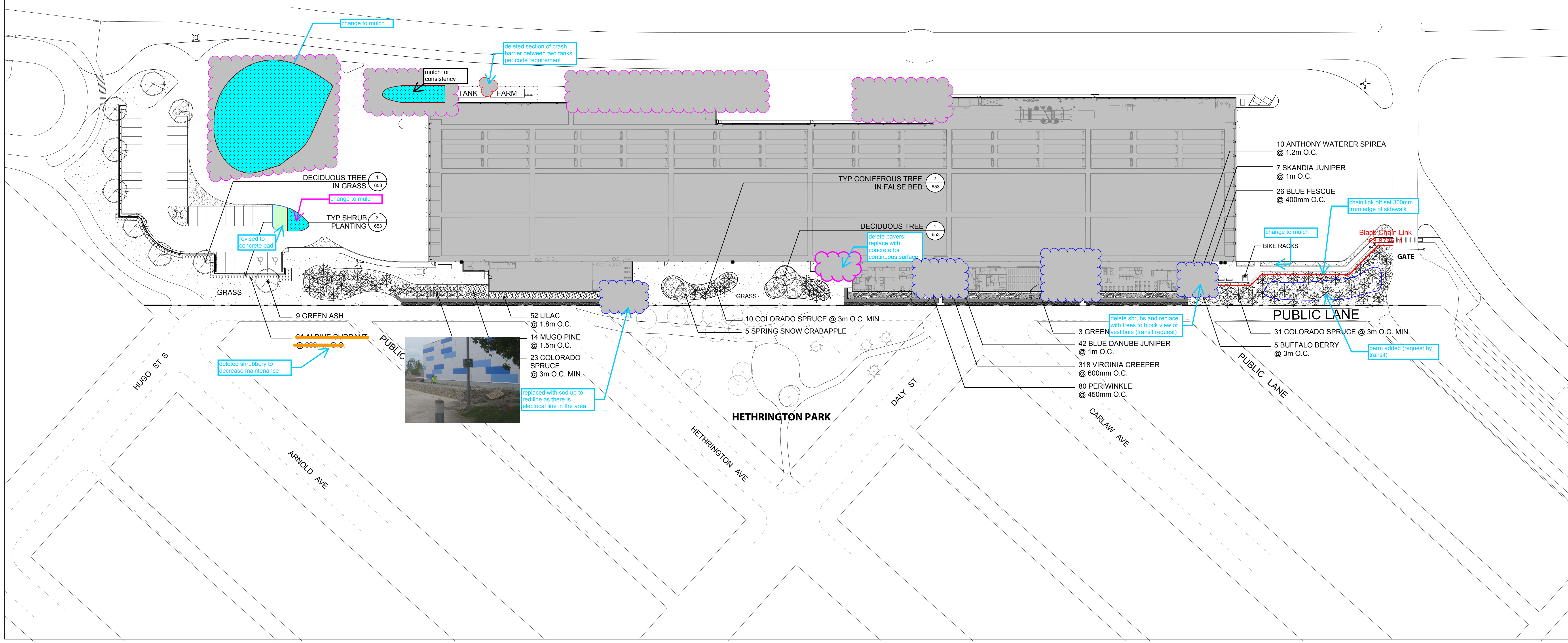
1 DECIDUOUS TREE PLANTING - IN FALSE BED OR GRASS
SCALE: 1:20



2 TYP CONIFEROUS TREE PLANTING - IN FALSE BED
SCALE: 1:20



3 TYP SHRUB PLANTING
SCALE: 1:20



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consultant
HILDERMAN THOMAS FRANK & CRAM
Landscape Architecture & Planning
100-115 Burnside Avenue East, Winnipeg, Manitoba, R2J 0K1
Winnipeg, Canada

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Project number	12-044
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