

MOBILE HOME CONSTRUCTION

CARROT RIVER, SASK ISSUED FOR CONSTRUCTION

CONSULTANT LIST

ARCHITECTURAL

REPUBLIC ARCHITECTURE INC.

374 DONALD STREET, FIRST FLOOR,
WINNIPEG, MANITOBA,
R3B 2J2

T 204 989 0102
F 204 989 0094

STRUCTURAL

CROSIER KILGOUR & PARTNERS LTD.
CONSULTING STRUCTURAL ENGINEERS

300-275 CARLTON STREET,
WINNIPEG, MANITOBA,
R3C 5R6

T 204 943 7501
F 204 943 7507

MECHANICAL

SMS ENGINEERING LTD.

770 BRADFORD STREET,
WINNIPEG, MANITOBA,
R3H 0N3

T 204 775 0291
F 204 772 2153

ELECTRICAL

SMS ENGINEERING LTD.

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DRAWING LIST

ARCHITECTURAL

A0 - COVER SHEET, DRAWING LIST, CONSULTANT LIST,
SYMBOLS & ABBREVIATIONS

A000 - SITE PLAN - 4th STREET
A010 - SITE PLAN - 3rd STREET
A100 - MAIN FLOOR PLAN, WALL TYPES & NOTES
A200 - REFLECTED CEILING PLAN & NOTES
A300 - ELEVATION & BUILDING SECTIONS
A400 - INTERIOR ELEVATIONS
A500 - WALL SECTIONS & DETAILS
A510 - WOOD DECK PLAN & ELEVATION
A520 - WOOD DECK SECTION, ELEVATION & DETAILS
A600 - DOOR SCHEDULE, WINDOWS SCHEDULE & MILLWORK

STRUCTURAL

S100 - MAIN FLOOR/ FOUNDATION FRAMING PLAN
S200 - ROOF FRAMING PLAN
S300 - SECTIONS
S400 - GENERAL NOTES

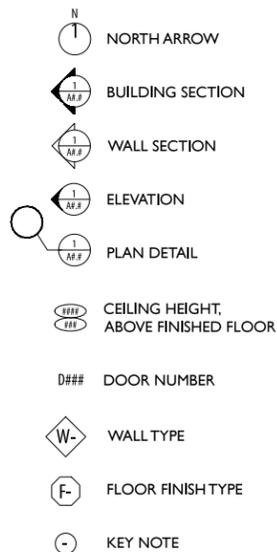
MECHANICAL

M000 - DRAWING LIST AND SYMBOL LEGEND
M100 - MAIN FLOOR PLAN - PLUMBING
M200 - MAIN FLOOR PLAN - HVAC
M300 - MECHANICAL / ELECTRICAL ROOM
- PLUMBING & HVAC
M400 - MECHANICAL SPECIFICATION
M500 - MECHANICAL SPECIFICATION
M600 - MECHANICAL DETAILS
M700 - MECHANICAL DETAILS
M800 - MECHANICAL DETAILS

ELECTRICAL

E001 - DRAWING LIST AND SYMBOL LEGEND
E100 - MAIN FLOOR PLAN - LIGHTING LUMINAIRE SCHEDULE
E200 - MAIN FLOOR PLAN - POWER AND SYSTEMS AND
EAST ELEVATION TRANSITION DETAIL
E300 - ELECTRICAL SCHEDULES AND GROUNDING DETAIL
E400 - ELECTRICAL SPECIFICATION
E401 - ELECTRICAL SPECIFICATION

SYMBOLS



ABBREVIATIONS

A.F.F.	-	ABOVE FINISHED FLOOR	HC	-	HOLLOWCORE	SIM	-	SIMILAR
AR. GWB	-	ABUSE RESISTANT GWB	HD	-	HIGH DENSITY	SPEC.	-	SPECIFICATION
ACT.	-	ACOUSTIC CEILING TILE	HP	-	HIGH POINT	S.C.	-	SOLID CORE
ALUM.	-	ALUMINUM	HORIZ.	-	HORIZONTAL	STD.	-	STAINED
ANOD.	-	ANODIZED	H.S.S.	-	HOLLOW STEEL SECTION	SS.	-	STAINLESS STEEL
ARCH.	-	ARCHITECTURAL	INT.	-	INTERIOR	STL	-	STEEL
			I.F.	-	INSIDE FACE	STRUCT.	-	STRUCTURAL
B.B.	-	BASE BUILDING	INSUL.	-	INSULATION			
BATT.	-	BATT INSULATION				TO.	-	TOP OF
BF	-	BARRIER FREE				T&G	-	TONGUE AND GROOVE
BM.	-	BEAM	LAM.	-	LAMINATED	T.I.	-	TENANT IMPROVEMENT
BLDG.	-	BUILDING	LAV.	-	LAVATORY	TYP.	-	TYPICAL
			LTTP.	-	LONG TERM THERMAL PERFORMANCE			
CPT.	-	CARPET				US.	-	UNDERSIDE
CLG.	-	CEILING	MAX.	-	MAXIMUM	U.L.C.	-	UNDERWRITER LABORATORIES OF CANADA
CL.	-	CENTRE LINE	MECH	-	MECHANICAL			
COL.	-	COLUMN	MTL	-	METAL	VB.	-	VAPOUR BARRIER
C/W	-	COMPLETE WITH	MISC.	-	MISCELLANEOUS	VEN.	-	VENEER
CONC.	-	CONCRETE	MIN.	-	MINIMUM	VERT.	-	VERTICAL
CMU	-	CONCRETE MASONRY UNIT	MUA	-	MAKE PAIR UNIT	V.C.T.	-	VINYL COMPOSITE TILE
			NAT.	-	NATURAL			
CONT.	-	CONTINUOUS	N.I.C.	-	NOT IN CONTRACT	W.B.	-	WEATHER BARRIER
CG.	-	CORNER GUARD	N.T.S.	-	NOT TO SCALE	W.P.	-	WATERPROOF
CORR.	-	CORRIDOR	NO.	-	NUMBER	WD.	-	WOOD
DEMO	-	DEMOLITION	O.C.	-	OFF CENTRE			
DP	-	DEEP	OPG.	-	OPENING			
DIM.	-	DIMENSION	O.TOO.	-	OUT TO OUT			
DIA.	-	DIAMETER	O.F.	-	OUTSIDE FACE			
DN.	-	DOWN						
DWG.	-	DRAWING	PTD.	-	PAINTED			
			PR.	-	PAIR			
EA.	-	EACH	PL.	-	PLATE			
EL.	-	ELEVATION	PIAM	-	PLASTIC LAMINATE			
ELEC.	-	ELECTRICAL	PTN.	-	PARTITION			
EQ.	-	DQUAL	PREFIN.	-	PREFINISHED			
EXIST.	-	EXISTING	PLWD.	-	PLYWOOD			
EXT.	-	EXTERIOR	POLU.	-	POLYETHYLENE			
			PS.	-	PRESSED STEEL			
EO.	-	FACE OF						
FIN.	-	FINISH	Q.T.	-	QUARRY TILE			
FR.	-	FIRE RATED						
FR.R.	-	FIRE RESISTANCE RATING	R.W.L.	-	RAINWATER LEADER			
FL.	-	FLOOR	RCV	-	RECEIVE			
F.D.	-	FLOOR DRAIN	REINF.	-	REINFORCED			
F.E.	-	FIRE EXTINGUISHER	REQ.	-	REQUIRED			
F.S.	-	FULL SIZE	REV.	-	REVISED			
			RM.	-	ROOM			
GA.	-	GAUGE	R.D.	-	ROOF DRAIN			
GL.	-	GLASS	R.Q.	-	ROUGH OPENING			
GR.	-	GRADE	RCP	-	REFLECTED CEILING PLAN			
GW.B.	-	GYPSUM WALL BOARD						

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Revision	Description	Date
5		
4		
3	100% ISSUED FOR CONSTRUCTION	14.12.18
2	99% SUBMISSION FOR REVIEW	14.12.1
1	33% SUBMISSION FOR REVIEW	14.10.31
0		

Project title

347-3RD STREET WEST
CARROT RIVER SK

MOBILE HOME
DESIGN 'A'

Approved by

Designed by

REPUBLIC ARCHITECTURE INC

Drawn by

BP

Project Manager

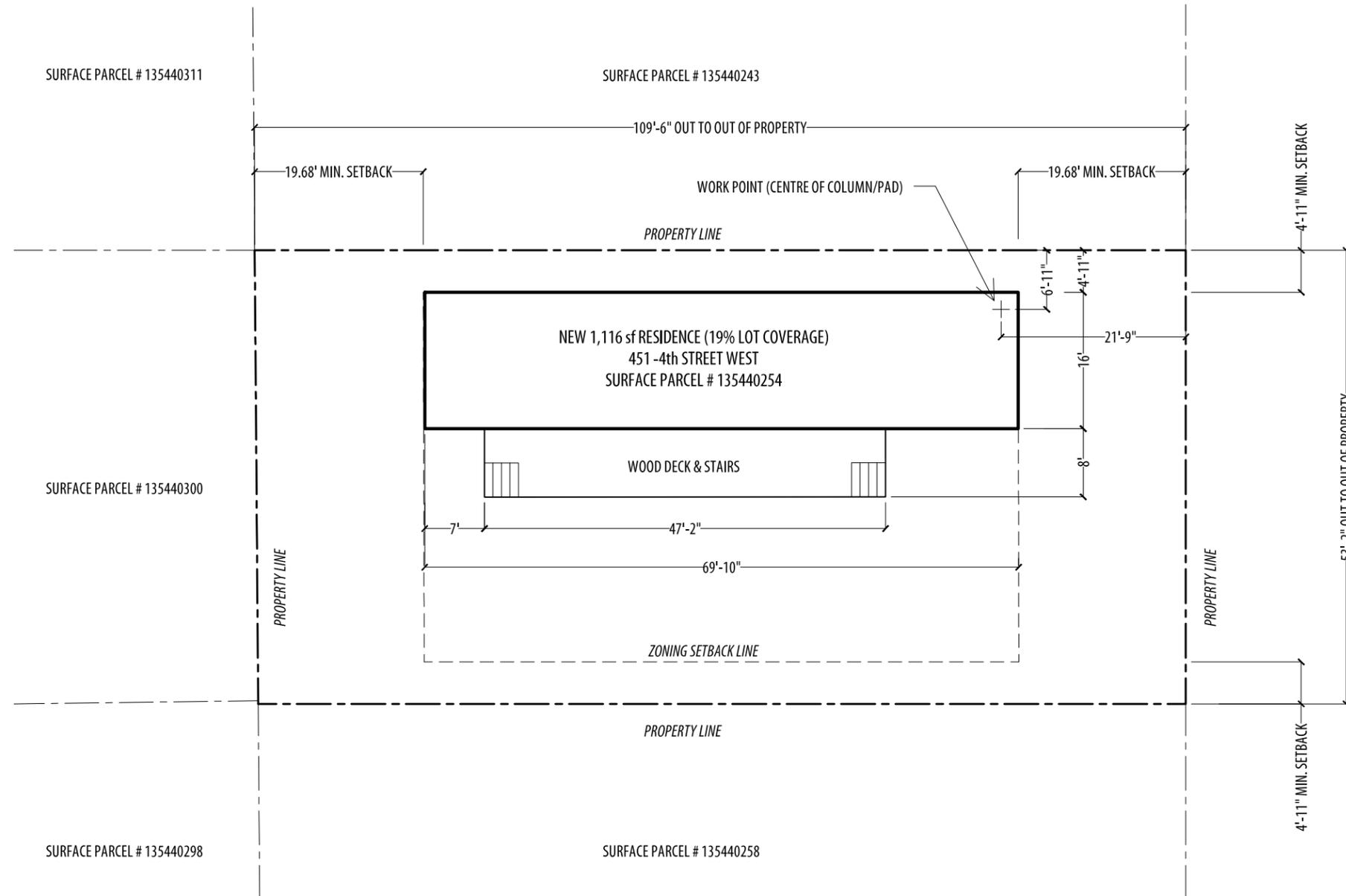
RD

Client

Drawing title

COVER SHEET, DRAWING LIST,
CONSULTANT LIST, SYMBOLS
ABBREVIATIONS

Project No.	Sheet	Revision no./
092	A0	3



4th STREET WEST

SURFACE PARCEL # 135440311

SURFACE PARCEL # 135440243

SURFACE PARCEL # 135440300

SURFACE PARCEL # 135440298

SURFACE PARCEL # 135440258



- ZONING REQUIREMENTS**
- SITE AREA MINIMUM - 1,181 sf WITH LANE
1,476 sf WITHOUT LANE
 - LOT FRONTAGE - 39.37' WITH LANE
49.21' WITHOUT LANE
 - FRONT YARD MINIMUM - 19.68'
 - REAR YARD MINIMUM - 19.68'
 - SIDE YARD MINIMUM - 4.92'
 - FLOOR AREA - 699.65 sf



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Project title

**451-4TH STREET WEST
CARROT RIVER SK**

**MOBILE HOME
DESIGN 'A'**

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REPUBLIC ARCHITECTURE INC

Drawn by
BP

Project Manager
RD

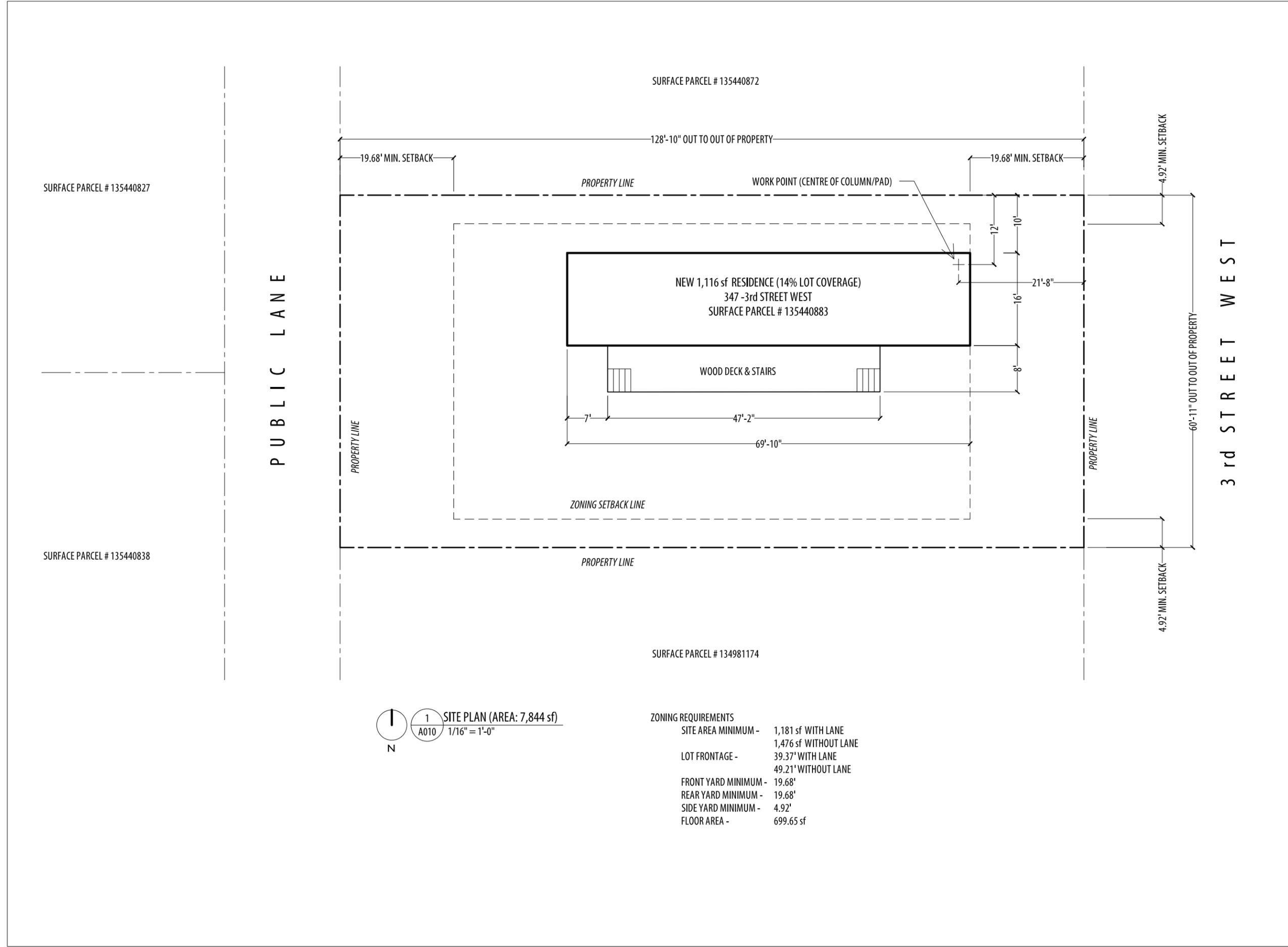
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Drawing title

SITE PLAN - 4TH STREET

SCALE AS NOTED

Project No.	Sheet	Revision no./
092	A000	3



PUBLIC LANE

3rd STREET WEST

1
A010 SITE PLAN (AREA: 7,844 sf)
1/16" = 1'-0"

ZONING REQUIREMENTS
 SITE AREA MINIMUM - 1,181 sf WITH LANE
 1,476 sf WITHOUT LANE
 LOT FRONTAGE - 39.37' WITH LANE
 49.21' WITHOUT LANE
 FRONT YARD MINIMUM - 19.68'
 REAR YARD MINIMUM - 19.68'
 SIDE YARD MINIMUM - 4.92'
 FLOOR AREA - 699.65 sf



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**347-3RD STREET WEST
 CARROT RIVER SK**
**MOBILE HOME
 DESIGN 'A'**

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Designed by
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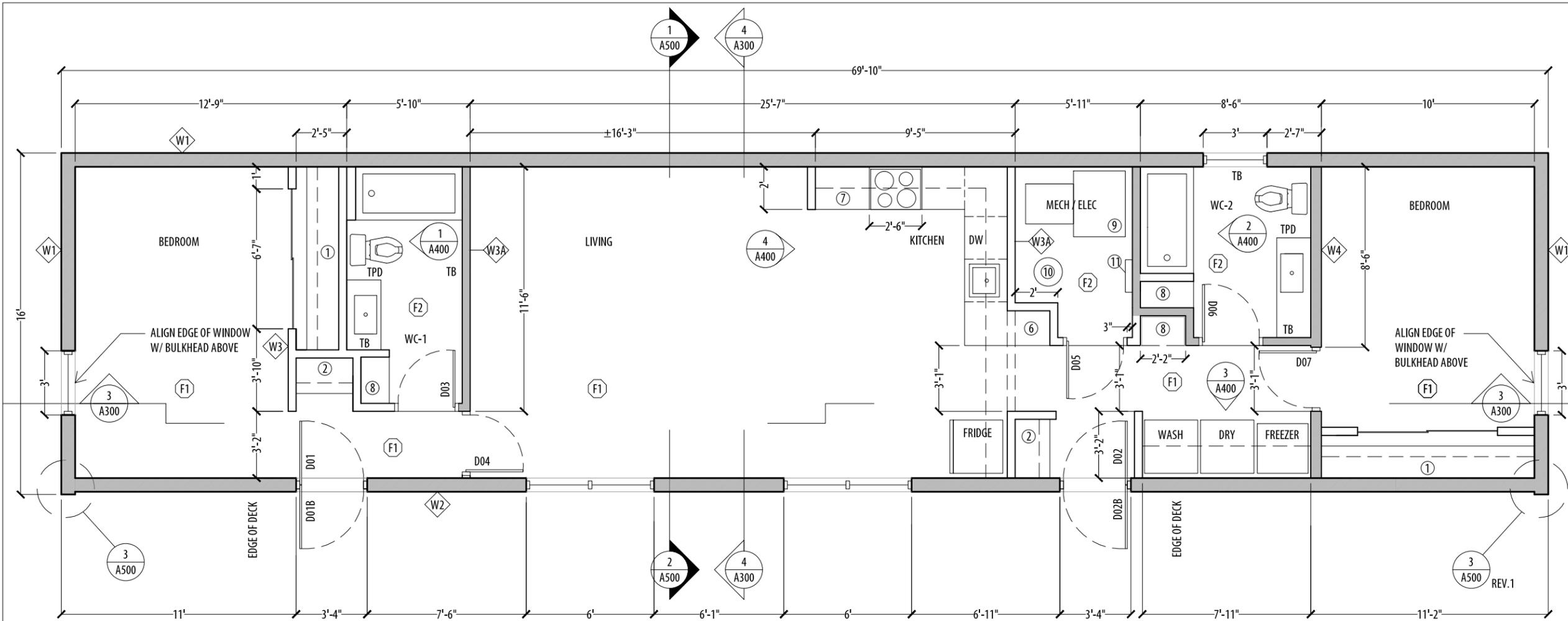
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Drawing title
SITE PLAN - 3RD STREET

SCALE AS NOTED

Project No.	Sheet	Revision no./
092	A010	3



2 MAIN FLOOR PLAN
A100 3/16" = 1'-0"

MAIN FLOOR PLAN KEYNOTES:

- ① CLOSET ROD & SHELF C/W SLIDING MIRRORED DOORS
- ② INDIVIDUAL COAT CLOSET C/W ROD & SHELF
- ③ MEDIA WALL (NOT USED)
- ④ LOWER CABINETS
- ⑤ CHARGING STATION / COMPUTER STATION / DESK
- ⑥ LOWER / UPPER CABINETS
- ⑦ SHELVE
- ⑧ FURNACE
- ⑨ WATER HEATER
- ⑩ ELECTRICAL PANEL
- ⑪ MOP / BROOM HOLDER

GENERAL NOTES:

- 1. DIMENSIONS TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- 2. PROVIDE ADDITIONAL 10% MATERIAL FOR TAPING, CORNER AND GWB RELATED SITE FINISH WORK.

GENERAL ASSUMPTIONS: (CONTRACTOR TO CONFIRM PRIOR TO CONSTRUCTION)
 MAX. HEIGHT ON CARRIERS - 17'-0"
 MAX. WIDTH - UNKNOWN
 MAX. TRANSPORT LENGTH - 72'-0"

FLOOR ASSEMBLY

- FLOOR FINISH (REFER TO FLOOR FINISH SCHEDULE)
- 3/4" D.FIR T & G PLYWOOD FLOOR SHEATHING
- 14" TGI JOISTS @ 16" O.C. C/W 3 PLY 1 3/4" X 16" 1.9e LVL RIM JOISTS
- CLOSED CELL POLYURETHANE SPRAY FOAM INSULATION (MIN. R30)
- 1/2" D.FIR EXT. GRADE PLYWOOD

WALL TYPE SCHEDULE:

- W1 TYPICAL EXTERIOR WALL ASSEMBLY
 5/16" CEMENT BOARD SIDING (SEE ELEVATIONS)
 AIR BARRIER
 1/2" PLYWOOD SHEATHING
 5 1/2" CLOSED CELL POLYURETHANE FOAM
 2X6 WOOD STUDS @ 16" O.C.
 1/2" PLYWOOD SHEATHING
 1/2" GYPSUM WALL BOARD (GWB)
- W2 SOUTH FACADE EXTERIOR WALL ASSEMBLY
 1 X 8 BEVELED CEDAR SIDING (NO.1 or NO.2)
 1x4" P.T. VERT. WOOD STRAPPING
 AIR BARRIER
 1/2" PLYWOOD SHEATHING
 5 1/2" CLOSED CELL POLYURETHANE FOAM
 2X6 WOOD STUDS @ 16" O.C.
 1/2" PLYWOOD SHEATHING
 1/2" GWB

ROOF ASSEMBLY

- VICWEST CL938 7/8" CORRUGATED (WHITE WHITE 16076) METAL ROOF
- ROOFING FELT
- 3/4" ROOF SHEATHING
- 14" 560 TJI JOISTS @ 16" O.C.
- CLOSED CELL POLYURETHANE SPRAY FOAM INSULATION (MIN. R30)
- 1/2" PLYWOOD SHEATHING
- 1/2" GWB

- W3 TYPICAL INTERIOR PARTITION (UNLESS OTHERWISE NOTED)
 1/2" GWB BOTH SIDES
 (INSULATION IF SHOWN IN DRAWING)
 2X4 WOOD STUDS @ 16" O.C.
- W3A INTERIOR PARTITION (SHEAR WALL)
 1/2" GWB BOTH SIDES
 1/2" PLYWOOD SHEATHING
 (INSULATION IF SHOWN IN DRAWING)
 2X4 WOOD STUDS @ 16" O.C.
- W4 INTERIOR PARTITION (PLUMBING/SHEAR WALL)
 1/2" GWB BOTH SIDES
 1/2" PLYWOOD SHEATHING
 (INSULATION IF SHOWN IN DRAWING)
 2X6 WOOD STUDS @ 16" O.C.

WALL LEGEND:



FLOOR FINISH SCHEDULE:

- F1 TYPICAL FLOOR FINISH
 RESILIENT PLANK
 (PATCRAFT- HIGHLAND FOREST-NATURAL MAPLE 20200)
- F2 WC / MECH. & ELEC. FLOOR FINISH
 SHEET VINYL - C/W TRANSITION AT DOORS
 (GERFLOR-MIPOLAM SYMBIOZ-6001 COTTON)

NOTE*: TRANSITIONS -SCHLUTER, RENO-U-AE,PROFILE HEIGHT TO BE CONFIRMED BY CONTRACTOR ON-SITE.



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MOBILE HOME
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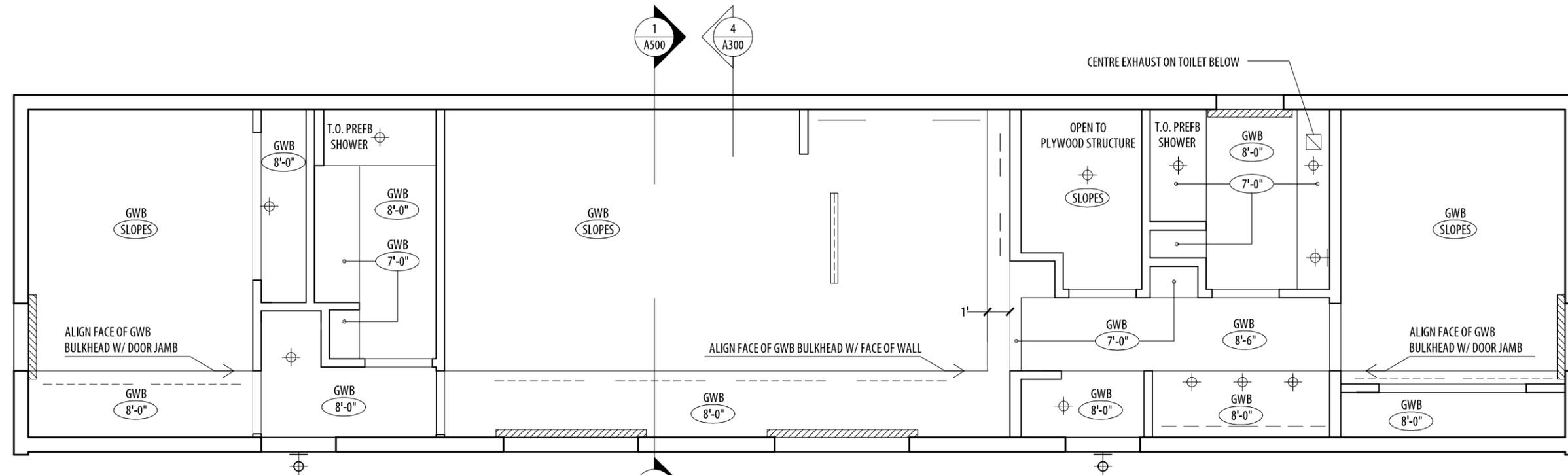
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Drawing title

MAIN FLOOR PLAN,
WALL TYPES & NOTES
SCALE AS NOTED

Project No.	Sheet	Revision no./
092	A100	3



1
A200
REFLECTED CEILING PLAN
3/16" = 1'-0"

N

NOTE:
 1. PENDANT LIGHT FIXTURE TO BE INSTALLED ON-SITE OR BRACED DURING TRANSPORT
 2. ALIGN PENDANT W/ CENTRE OF KITCHEN ISLAND
 3. REFER TO 4/A300 FOR BULKHEAD DIMENSIONS

RCP LEGEND:

-  BLACK-OUT ROLLER BLIND
-  4'-0" SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL
-  4'-0" FLOURESCENT LIGHT FIXTURE (@ LIGHT SHELF) - SEE ELECTRICAL
-  UNDER CABINET LIGHT FIXTURE - SEE ELECTRICAL
-  WALL MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
-  RECESSED POT LIGHT - SEE ELECTRICAL



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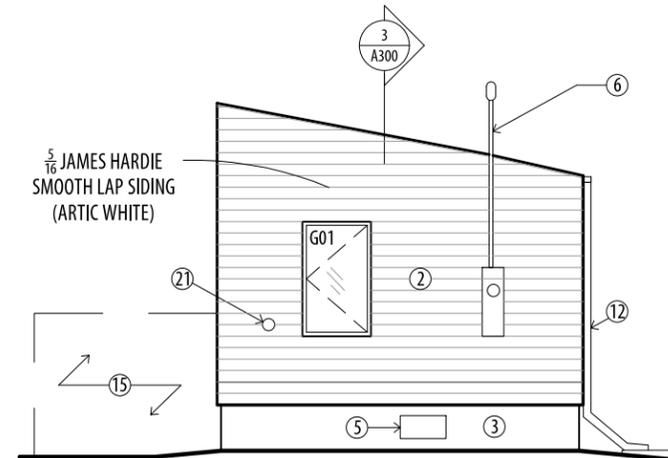
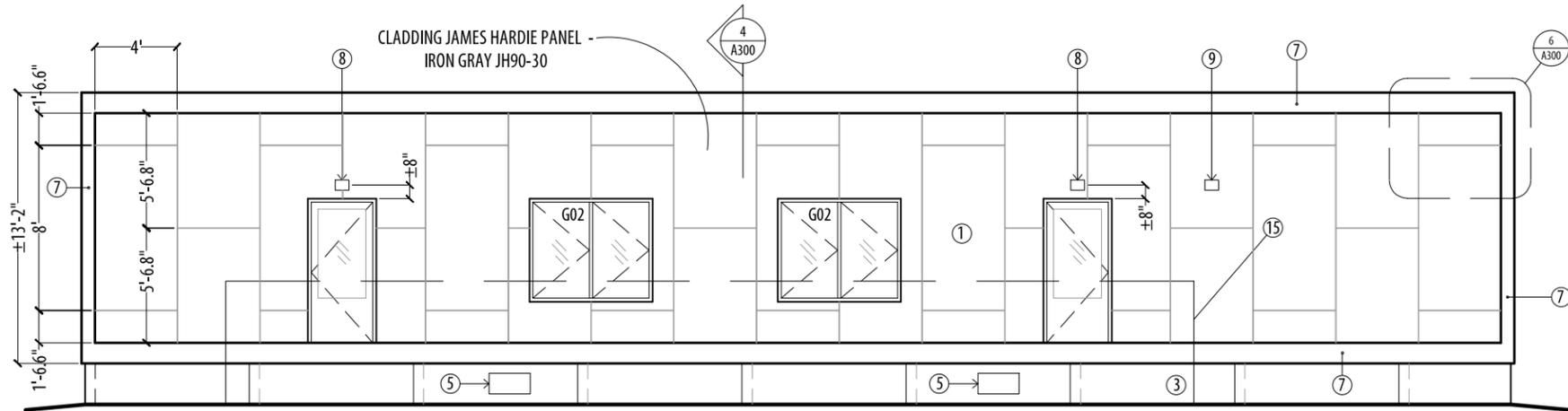
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Drawing title
**REFLECTED CEILING PLAN
& NOTES
SCALE AS NOTED**

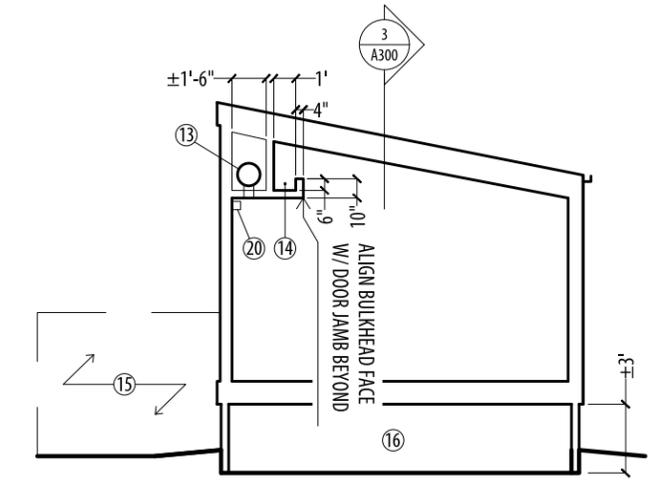
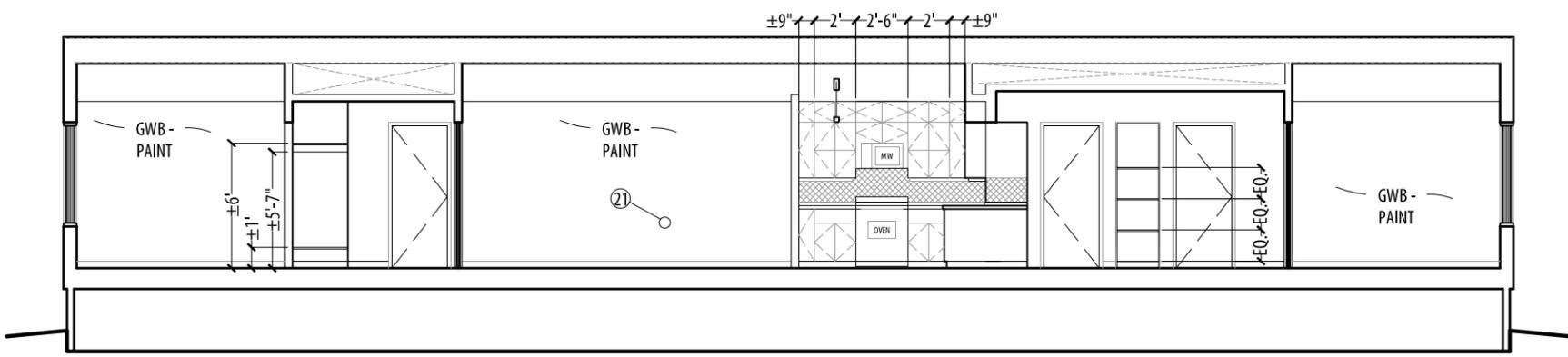
Project No.	Sheet	Revision no./
092	A200	3



1 SOUTH ELEVATION
A300 1/8" = 1'-0"

2 EAST ELEVATION (WEST SIM.)
A300 1/8" = 1'-0"

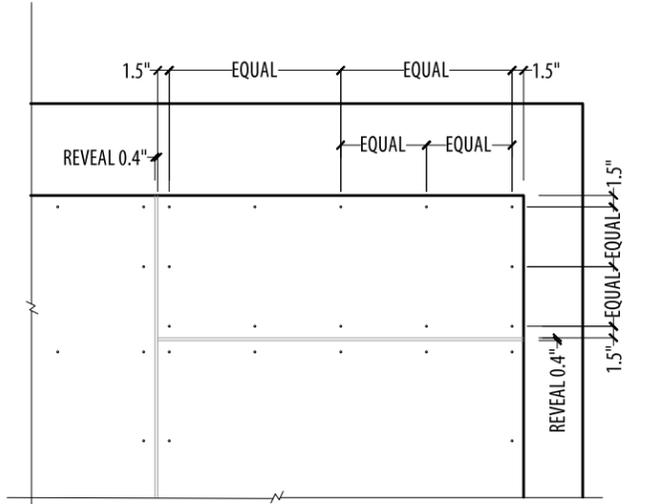
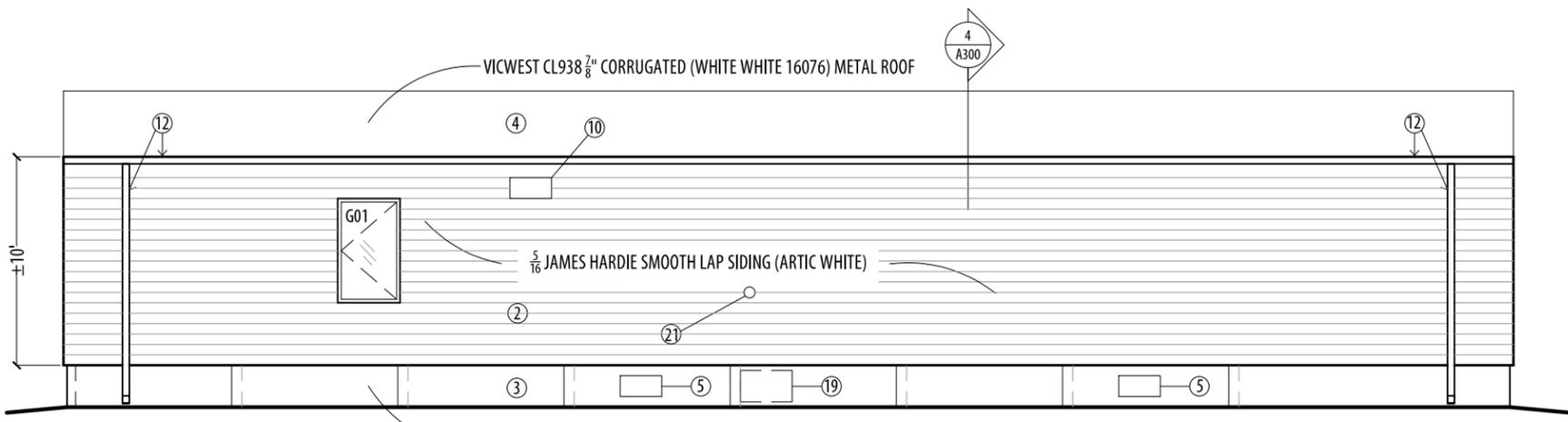
- KEYNOTES:
- | | | | |
|---|---------------------------------|-----------------------------------|---------------------------------------|
| ① CEMENT BOARD PANELS | ⑦ WHITE METAL FLASHING | ⑬ SUPPLY PLENUM | ⑰ CRAWLSPACE ACCESS DOOR |
| ② CEMENT BOARD SIDING | ⑧ EXTERIOR LIGHT | ⑭ LIGHT FIXTURE | C/W HEAVY DUTY HINGES, HASP + PADLOCK |
| ③ CEMENT BOARD PANELS | ⑨ DRYER EXHAUST | ⑮ WOOD DECK, RAIL, GUARD & STAIRS | CONSTRUCT TO MATCH ADJACENT PANELS |
| ④ GALV. METAL ROOFING | ⑩ FRESH AIR INTAKE | ⑯ UNCONDITIONED SPACE | ⑳ BLACK OUT ROLLER BLIND |
| ⑤ PT. GREY CRAWLSPACE VENT | ⑪ SUNSHADE | ⑰ PLENUM ROUTING | ㉑ PT. WHITE A/C VENT |
| ⑥ ELECTRICAL SERVICE MAST (IF REQUIRED) | ⑫ GUTTER, DOWNSPOUT & SPLASHPAD | ⑱ WASH / DRY APPLIANCES | |



3 LONGITUDINAL SECTION
A300 1/8" = 1'-0"

4 CROSS SECTION
A300 1/8" = 1'-0"

NOTE*: PAINT ALL GWB (WALLS & CEILINGS - FINISH COLOUR GENERAL PAINT 001 WHITE LRV 93 (OR BENJAMIN MOORE EQUIVALENT))



5 NORTH ELEVATION
A300 1/8" = 1'-0"

6 TYPICAL FASTENER PATTERN
A300 1/2" = 1'-0"

SKIRT CLADDING JAMES HARDIE PANEL - IRON GRAY JH90-30 REFER TO 2/A500 FOR DETAILS
NOTE: GUTTERS, DOWNSPOUTS & SPLASHPAD TO BE INSTALLED ON SITE

NOTE: FASTENER COLOUR TO MATCH CLADDING COLOUR



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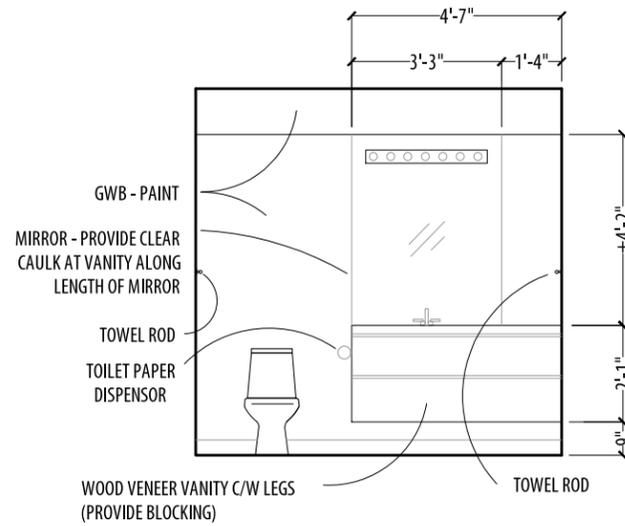
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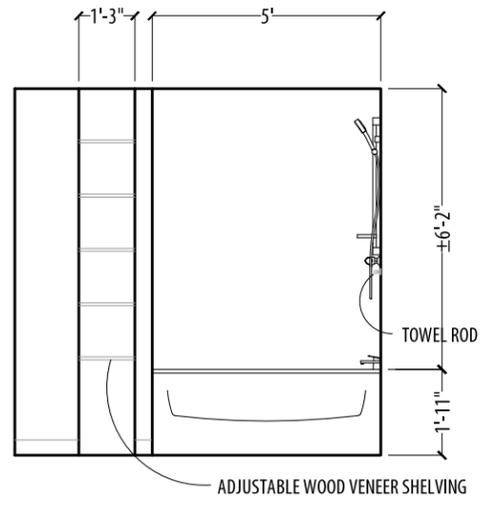
Drawing title

**ELEVATIONS &
BUILDING SECTIONS
SCALE AS NOTED**

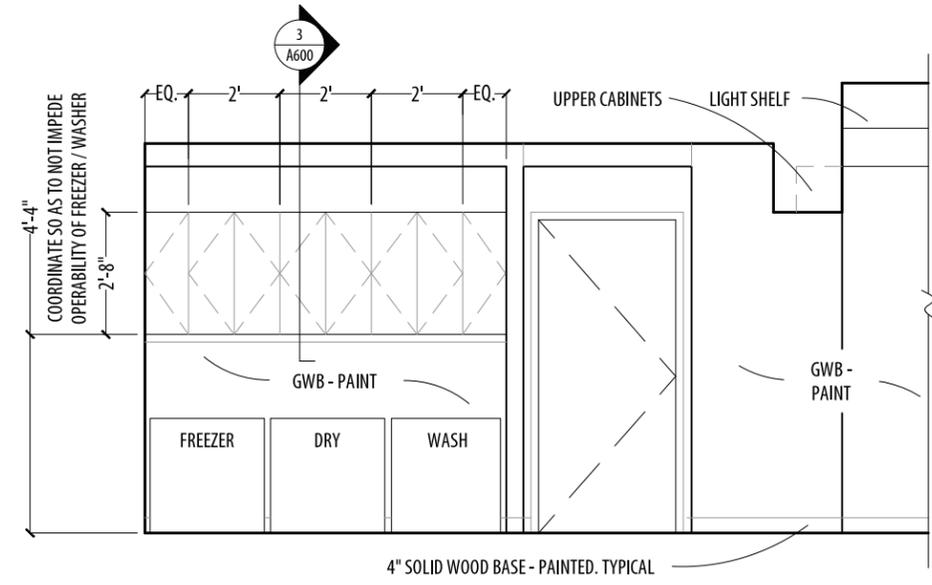
Project No.	Sheet	Revision no./
092	A300	3



1 WC INTERIOR ELEVATION
A400 1/4" = 1'-0"

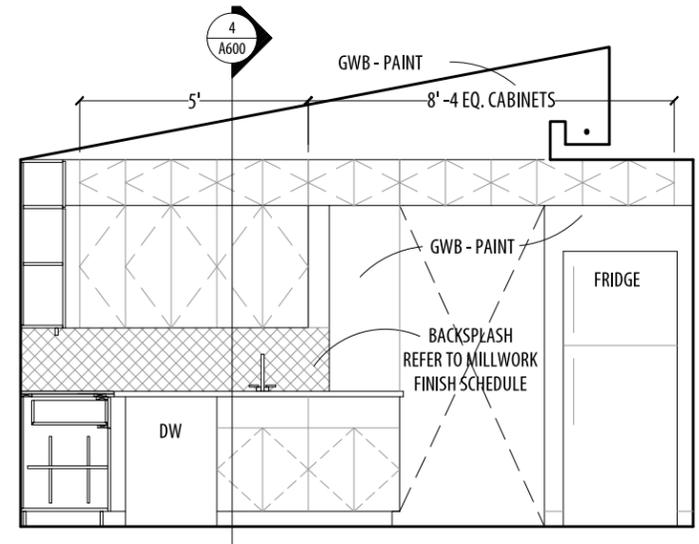


2 WC INTERIOR ELEVATION
A400 1/4" = 1'-0"



3 CORRIDOR INTERIOR ELEVATION
A400 1/4" = 1'-0"

NOTE: MATCH ALL WOOD VENEER IN SPECIES AND COLOUR TO WOOD REPRESENTATION IN PLANK VINYL FLOOR FINISH



4 KITCHEN INTERIOR ELEVATION
A400 1/4" = 1'-0"



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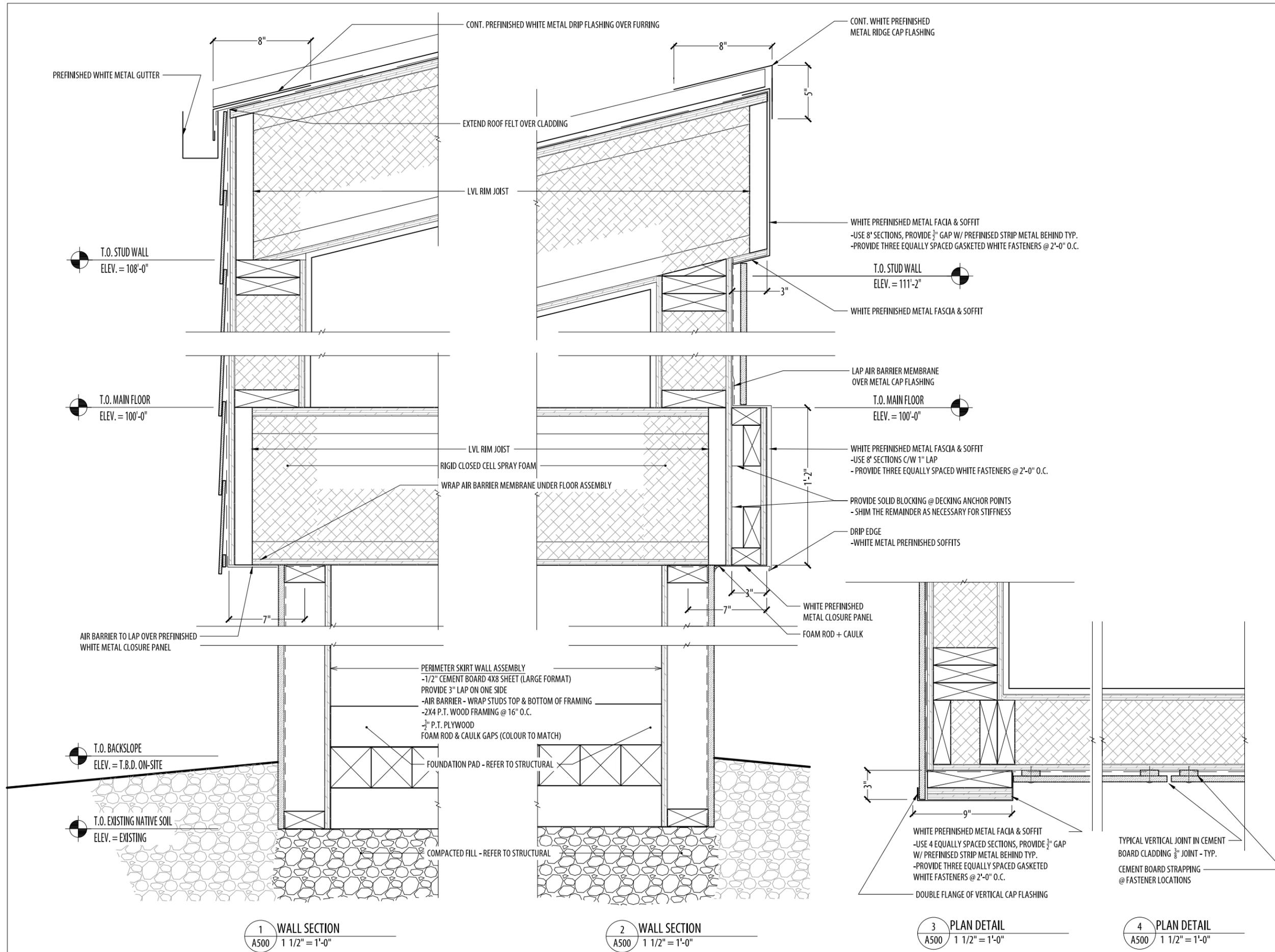
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Drawing title
INTERIOR ELEVATIONS

SCALE AS NOTED

Project No. Sheet Revision no./

092 A400 3



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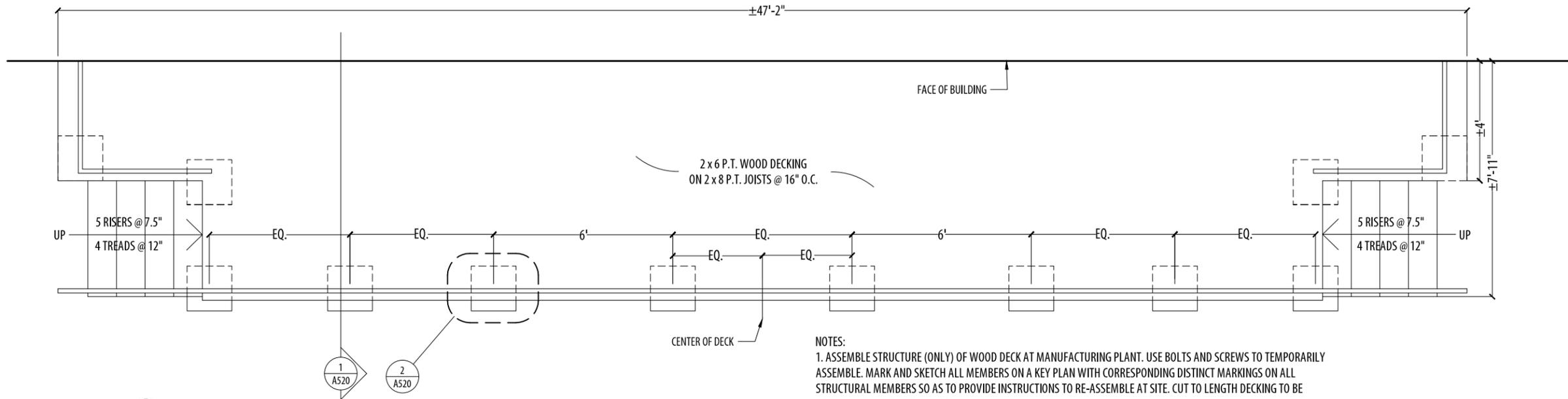
Project Manager
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Drawing title
WALL SECTIONS & DETAILS

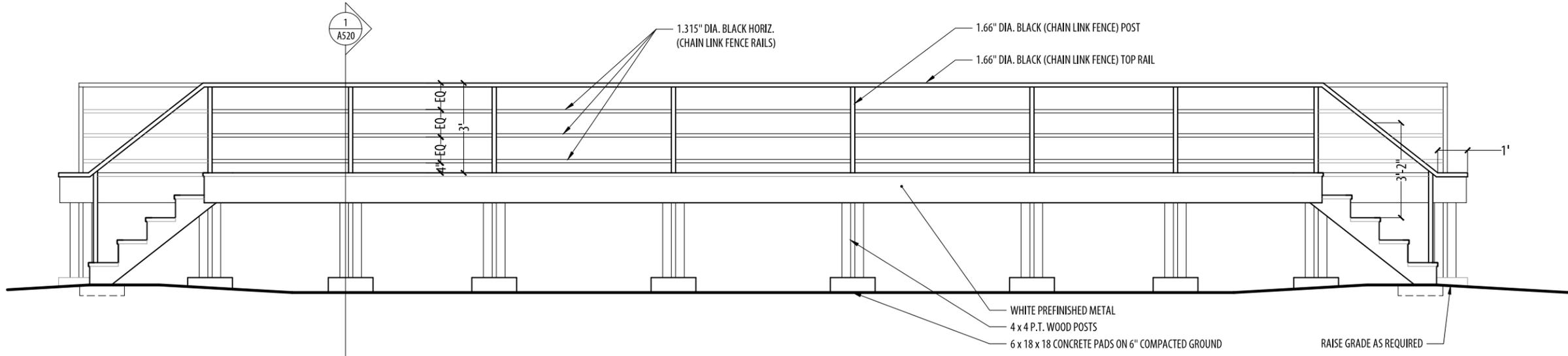
SCALE AS NOTED

Project No.	Sheet	Revision no./
092	A500	3



1 WOOD DECK PLAN
A510 SCALE 1/4" = 1'-0"

NOTES:
1. ASSEMBLE STRUCTURE (ONLY) OF WOOD DECK AT MANUFACTURING PLANT. USE BOLTS AND SCREWS TO TEMPORARILY ASSEMBLE. MARK AND SKETCH ALL MEMBERS ON A KEY PLAN WITH CORRESPONDING DISTINCT MARKINGS ON ALL STRUCTURAL MEMBERS SO AS TO PROVIDE INSTRUCTIONS TO RE-ASSEMBLE AT SITE. CUT TO LENGTH DECKING TO BE INSTALLED ON SITE. PROVIDE 10% EXCESS DECKING FOR DELIVERY TO SITE.



2 WOOD DECK SOUTH ELEVATION
A510 SCALE 1/4" = 1'-0"



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Revision	Description	Date
5		
4		
3	100% ISSUED FOR CONSTRUCTION	14.12.18
2	99% SUBMISSION FOR REVIEW	14.12.1
1	33% SUBMISSION FOR REVIEW	14.10.31
0		

Project title
**CARROT RIVER SK
MOBILE HOME
DESIGN 'A'**

Approved by

Designed by
REPUBLIC ARCHITECTURE INC

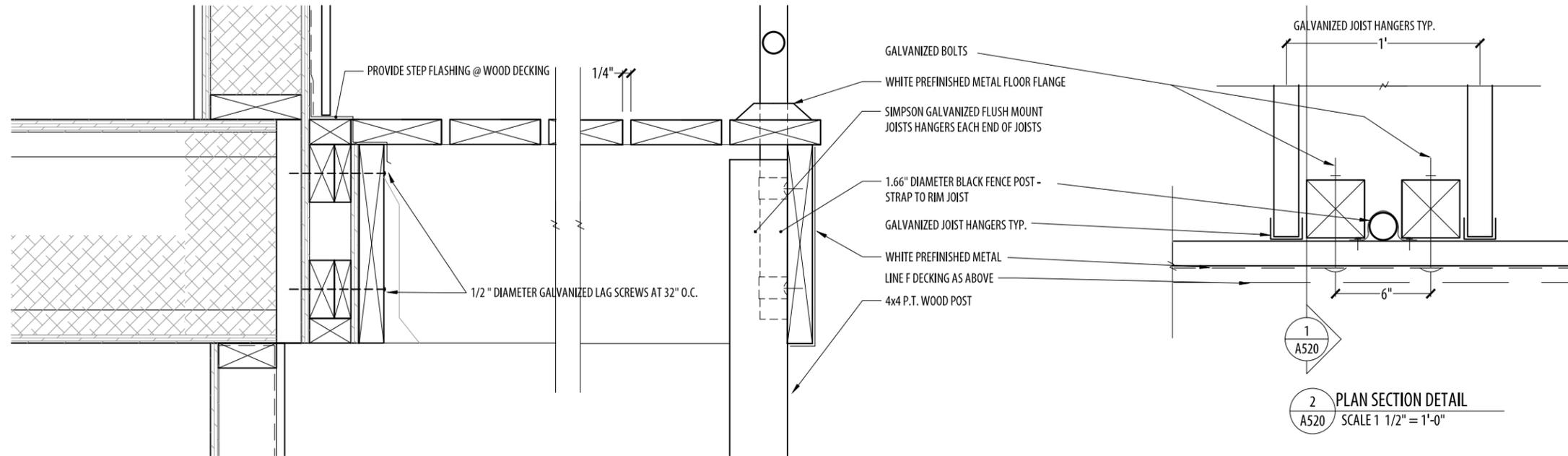
Drawn by
BP

Project Manager
RD

Client

Drawing title
**WOOD DECK PLAN
& ELEVATION
SCALE AS NOTED**

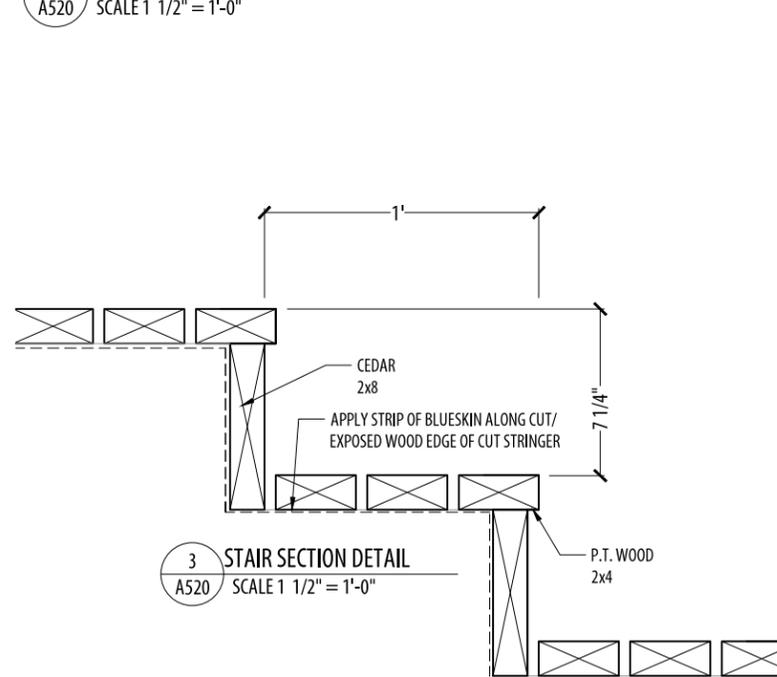
Project No.	Sheet	Revision no./
092	A510	3



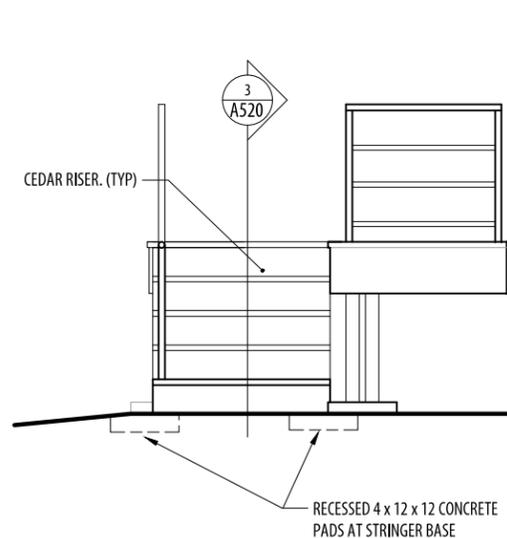
1 WOOD DECK SECTION DETAIL
A520 SCALE 1 1/2" = 1'-0"

1 A520

2 PLAN SECTION DETAIL
A520 SCALE 1 1/2" = 1'-0"

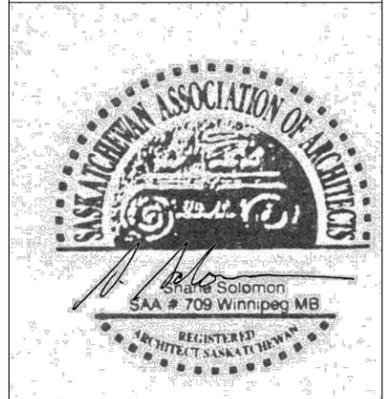


3 STAIR SECTION DETAIL
A520 SCALE 1 1/2" = 1'-0"



4 WOOD DECK EAST ELEVATION
A520 SCALE 1/4" = 1'-0"

3 A520



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3	100% ISSUED FOR CONSTRUCTION	14.12.18
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Project title

**CARROT RIVER SK
MOBILE HOME
DESIGN 'A'**

Approved by

Designed by
REPUBLIC ARCHITECTURE INC

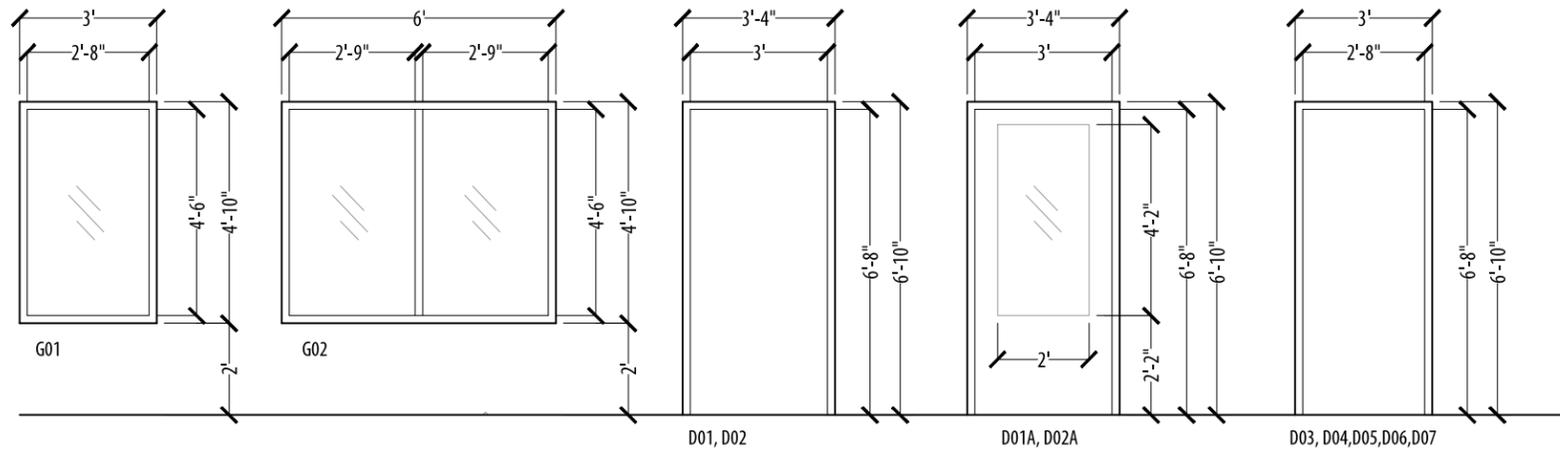
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Drawing title
**WOOD DECK SECTION,
ELEVATION & DETAILS
SCALE AS NOTED**

Project No.	Sheet	Revision no./
092	A520	3



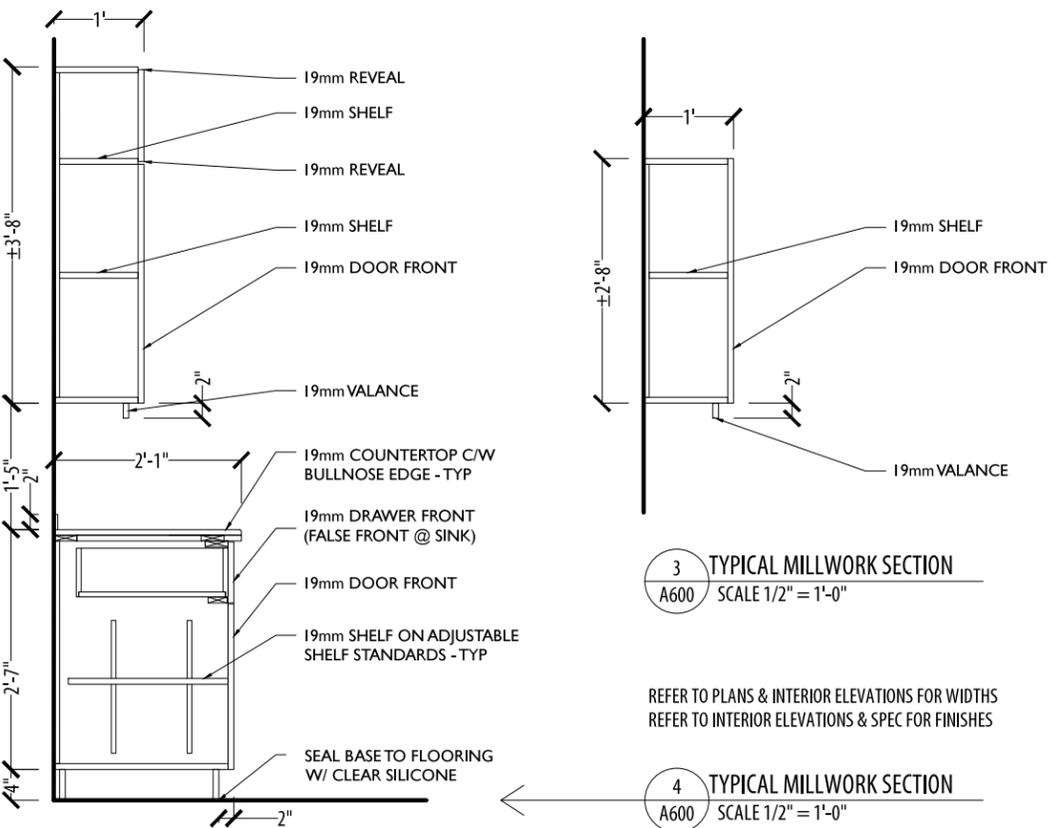
1 WINDOW & DOOR TYPES
A600 1/4" = 1'-0"

- NOTES:
 1. WINDOWS TO BE DUAL GLAZED SEALED UNITS C/W ARGON GAS AND LOW E COATING. FRAME TO BE INSULATED FIBERGLASS, OPERABLE WINDOWS (WHERE SHOWN) TO BE CASEMENT STYLE C/W WEATHER STRIPPING AND INSECT SCREENS
 2. ALL WINDOW & DOOR CASING TO BE 4" PAINT PRIMED WOOD MINIMAL PROFILE (CONFIRM PROFILE W/ CONSULTANT)

DOOR & DOOR FRAME SCHEDULE																
DOOR#	LOCATION	DOOR SIZE (WxHT)	FRAME SIZE (WxHT)	DOOR				DOOR FRAME				HARDWARE				REMARKS
				MATERIAL	FINISH	INSUL	GLAZE	MAT	FINISH	PASS	LOCK	PRIV	DB	TH	WS	
D01-D02	EXTERIOR	3' x 6'-8"	3'-4" x 6'-10"	METAL	PAINT	X	-	METAL	PAINT				X	X	X	PROVIDE WITH SECURITY CHAIN AND VIEWING EYE HOLE HARDWARE
D01A-D02A	EXTERIOR	3' x 6'-8"	3'-4" x 6'-10"	ALUM.	ANOD.	-	X	ALUM.	ANOD.			X		X	X	STORM DOOR C/W INSECT SCREEN & CLOSURES HARDWARE
D03-D07	INTERIOR	2'-8" x 6'-8"	3' x 6'-10"	WOOD	WOOD VENEER	-	-	WOOD	PAINT	X	X	X				D03, D04, D06 & D07 C/W LOCKING PRIVACY, D05 PASSAGE DOOR HARDWARE

2 DOOR & DOOR FRAME SCHEDULE
A600

- NOTES:
 1.) ALL DOOR HANDLES TO BE LEVER C/W BRUSHED ALUM. FINISH
 2.) CONFIRM KEYING REQUIREMENTS WITH OWNER



MILLWORK FINISH SCHEDULE:

- CABINETS**
 P.LAM - ARBORITE S-550 CA ELEGANT WHITE
 3MM PVC EDGE BANDING - COLOUR TO MATCH
COUNTERTOP
 P.LAM - ARBORITE P-325 MX BRUSHED PEWTER
BACKSPLASH
 P.LAM - ARBORITE P-331 CA CHARCOAL CHAMOIS

- GENERAL NOTES:
 1. PROVIDE SHOP DRAWINGS FOR CONSULTANT REVIEW PRIOR TO CONSTRUCTION.
 2. ALL DRAWERS AND CABINETS TO BE PROVIDED W/ RICHELIEU CONT. ALUM. PULLS
 3. ALL CABINET INTERIORS TO BE FACED W/ WHITE MELAMINE



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Project title

**CARROT RIVER SK
MOBILE HOME
DESIGN 'A'**

Approved by

Designed by
REPUBLIC ARCHITECTURE INC

Drawn by
BP

Project Manager
RD

Client

Drawing title

**DOOR SCHEDULE, WINDOW
SCHEDULE & MILLWORK
SCALE AS NOTED**

Project No.	Sheet	Revision no./
092	A600	3

DRAWING LIST

E001	DRAWING LIST AND SYMBOL LEGEND
E100	MAIN FLOOR PLAN - LIGHTING
E200	MAIN FLOOR PLAN - POWER AND SYSTEMS AND EAST ELEVATION DETAIL
E300	ELECTRICAL SCHEDULES AND GROUNDING DETAIL
E400	ELECTRICAL SPECIFICATION
E401	ELECTRICAL SPECIFICATION AND HEATER SCHEDULE

ELECTRICAL SYMBOL LEGEND

	SMOKE ALARM
	VOICE OUTLET
	CATV OUTLET
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE 20A 1T SLOT 5-20RA
	QUADRAPLEX RECEPTACLE
	GFI DUPLEX RECEPTACLE
	RANGE RECEPTACLE
	DRYER RECEPTACLE
	HAND DRYER OUTLET
	JUNCTION BOX
	MOTOR
	MOTOR AND DISCONNECT
	SURFACE MOUNTED PANEL

ELECTRICAL SYMBOL LEGEND

	A1-a	FLUORESCENT FIXTURE, A1-PANEL AND CIRCUIT, a-CONTROL
		DOWN LIGHT
		WALL MOUNTED FIXTURE
	\$	SWITCH
	\$	2 GANG SWITCH
	\$\$\$	4 GANG SWITCH
	(M)	UTILITY METERING (PROVIDED BY OTHERS)
	a	MOUNTED ABOVE COUNTER
	m	MOUNTED IN MILLWORK
	u	MOUNTED UNDER COUNTER
	WP	WEATHER PROOF

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0	ISSUED FOR 30% REVIEW	14/10/31
Revision	Description	Date

Real Property

Project title
Carrot River, SK

MOBILE HOME DESIGN

Approved by
GW

Designed by
MZ

Drawn by
JB

Project Manager
JRB

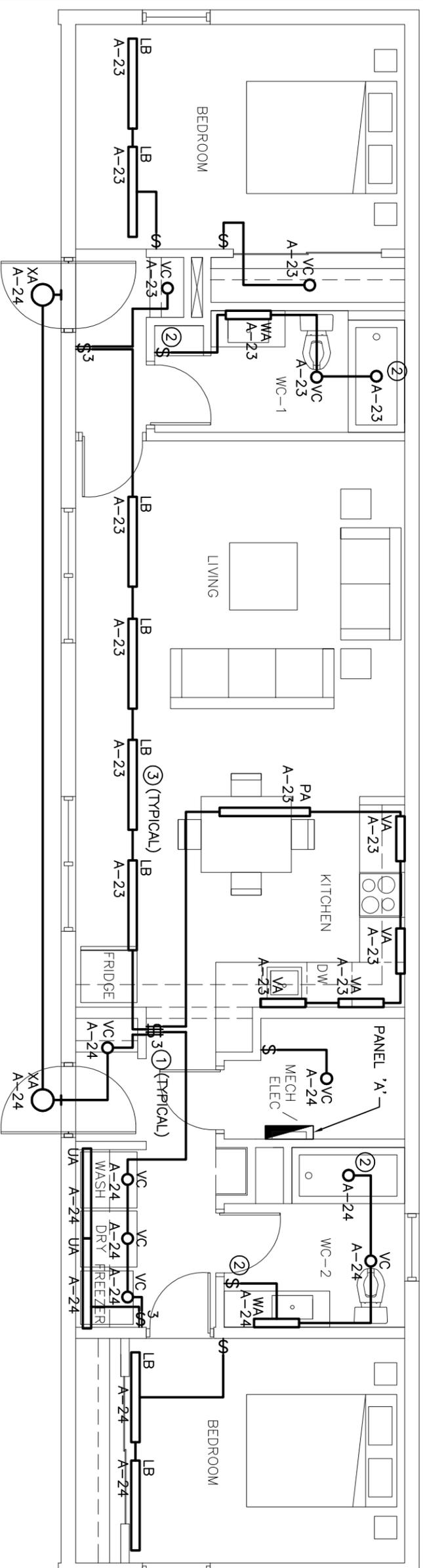
Client

Drawing title
DRAWING LIST AND
SYMBOL LEGEND

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	E001	2





1 MAIN FLOOR PLAN - LIGHTING

SCALE: 3/16"=1'-0"

E100

GENERAL NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- B. CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- C. CONTRACTOR SHALL PROVIDE FIVE SPARE LAMPS FOR EACH NEW LIGHT FIXTURE TYPE. STORE FIXTURES IN MECH/ELEC ROOM IN SUITABLE CONTAINER.

KEY NOTES

1. SUPPLY, WIRE AND INSTALL NEW 120V LIGHT SWITCH.
2. NEW 120V LIGHT SWITCH TO BE CIRCUITED TO INTEGRATED LIGHT IN THE SHOWER.
3. SUPPLY, WIRE AND INSTALL NEW LIGHT FIXTURES. PROVIDE NEW 15A CIRCUIT IN PANEL A. WIRING TO BE 2#12 NMD90.

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1	ISSUED FOR 90% REVIEW	14/12/05
2	ISSUED FOR CONSTRUCTION	14/12/18
3		
4		
5		

Red Property

Project title
 Carrot River, SK

MOBILE HOME DESIGN

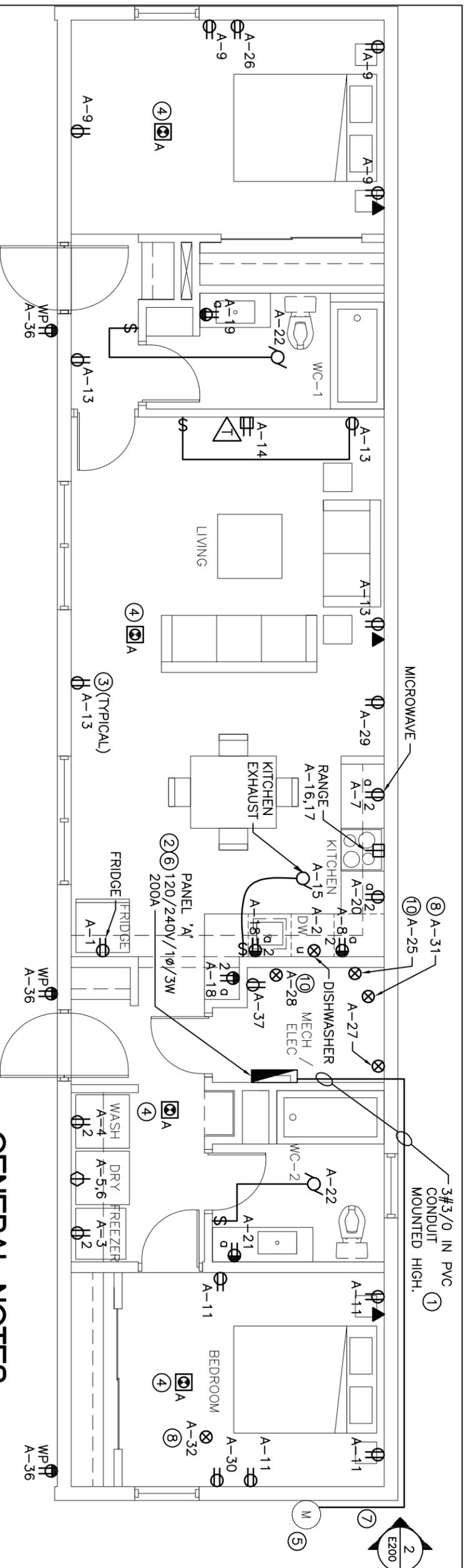
Approved by	GW
Designed by	MZ
Drawn by	JB
Project Manager	JRB
Client	

Drawing title
 MAIN FLOOR PLAN
 - LIGHTING

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	E100	2





1 MAIN FLOOR PLAN - POWER AND SYSTEMS

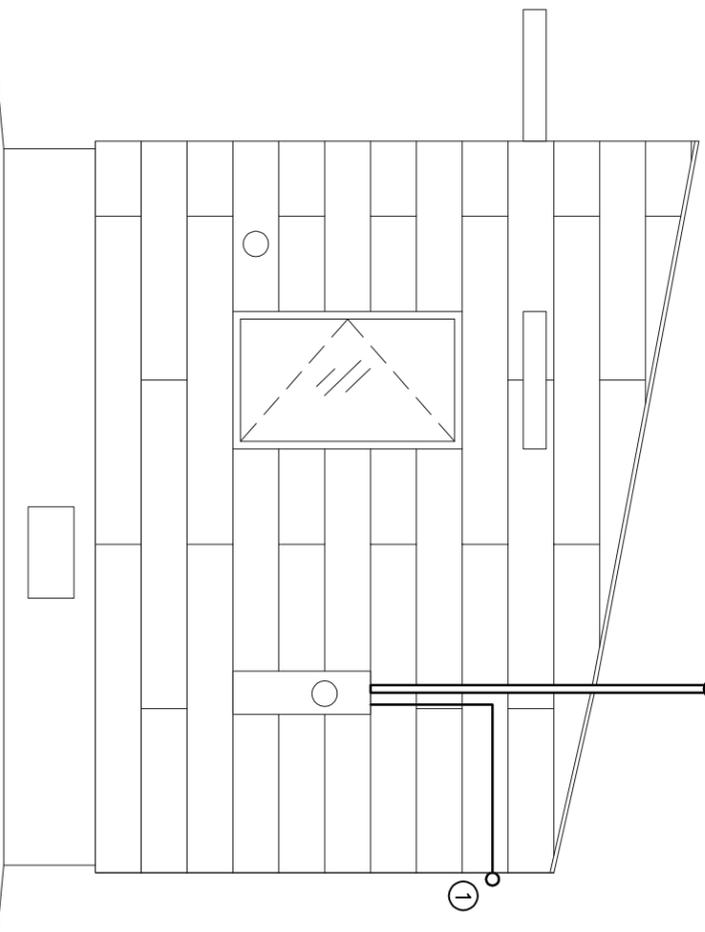
SCALE: 3/16"=1'-0"

KEY NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE WIRE AND INSTALL FEEDER FROM METER TO NEW PANEL 'A'. CABLE TO RUN AT HIGH LEVEL TO PANEL. SECURE WITH STAINLESS STEEL STRAPS.
2. SUPPLY, WIRE AND INSTALL 120V/240V/1Ø/3W 200A PANELBOARD IN MECH/ELEC ROOM.
3. SUPPLY, WIRE AND INSTALL NEW DUPLEX RECEPTACLE WIRE WITH MINIMUM 2#12 NMD90. REFER TO PANEL SCHEDULE FOR BREAKER SIZES.
4. SUPPLY AND INSTALL NEW COMBINATION INTERCONNECTED CO AND SMOKE ALARM. WIRE AND CONNECT TO LIGHT CIRCUIT SERVING EACH AREA.
5. PROVIDE NEW OVERHEAD MAST FOR NEW HYDRO SERVICE. CONTRACTOR TO CONFIRM EXACT LOCATION OF METER PRIOR TO INSTALLATION OF THE OVERHEAD MAST.
6. NEW PANELBOARD SHALL BE GROUNDED. PROVIDE GROUND RODS AS REQUIRED. REFER TO DETAIL ON DRAWING E300.
7. SEE DETAIL 2 ON THIS DRAWING FOR ELEVATION.
8. PROVIDE HARD WIRED ELECTRICAL CONNECTION FOR HEAT TRACE PROVIDED BY MECHANICAL. HEAT TRACE CONNECTION LOCATED IN CRAWLSPACE. COORDINATE ALL CONNECTIONS WITH MECHANICAL CONTRACTOR.
9. OPEN NOTE.
10. PROVIDE 120V SERVICE FOR CONTROLS TO GAS POWERED MECHANICAL EQUIPMENT. WIRE WITH MINIMUM 2#12 NMD90. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- B. CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- C. CONFIRM ALL ELECTRICAL REQUIREMENT FOR EQUIPMENT NOT IN CONTRACT PRIOR TO ROUGH-IN.
- D. CONFIRM ALL EXTERIOR EQUIPMENT LOCATIONS WITH ARCHITECT PRIOR TO TRENCHING.
- E. EXACT LOCATIONS OF ALL POWER & SYSTEM DEVICES/OUTLETS TO BE CONFIRMED ON SITE WITH ARCHITECT PRIOR TO ROUGH-IN.
- F. CONTRACTOR TO REVIEW HEIGHTS AND PLACEMENT OF OUTLETS. SHOULD THERE BE ANY CONFUSION OR DISCREPANCIES IT WILL BE THE RESPONSIBILITY OF DIVISION 16 TO CLARIFY WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.
- H. FIRE STOP ALL PENETRATIONS.
- G. EXTERIOR DUPLEX RECEPTACLES TO BE RECESSED.



2 EAST ELEVATION TRANSITION DETAIL

SCALE: 1/4"=1'-0"

E200

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Red Property

Carrot River, SK

MOBILE HOME DESIGN

Revision	Description	Date
5		
4		
3		
2	ISSUED FOR CONSTRUCTION	14/12/18
1	ISSUED FOR 98% REVIEW	14/12/05
0	ISSUED FOR 33% REVIEW	14/10/21

Client	
Project title	Carrot River, SK
Approved by	GW
Designed by	MZ
Drawn by	JB
Project Manager	JRB
Client	

Drawing title
 MAIN FLOOR PLAN –
 POWER AND SYSTEMS AND
 EAST ELEVATION DETAIL

SCALE: AS NOTED

Project No.	Sheet	Revision No./
91	E200	2



ELECTRICAL SPECIFICATION
SECTION 16010 ELECTRICAL GENERAL PROVISIONS

- 1 GENERAL
 - .1 PROVIDE ALL MATERIALS, LABOUR, PLANT AND EQUIPMENT NECESSARY TO MAKE A COMPLETE INSTALLATION AS DESCRIBED AND SHOWN. THIS INSTALLATION SHALL BE LEFT COMPLETE AND READY FOR OPERATION.
 - .2 THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. REPLACE AT NO ADDITIONAL COST ANY WORK OR MATERIAL WHICH MAY FAIL OR PROVE DEFECTIVE DURING THE GUARANTEE PERIOD.
 - .3 THE INSTALLATION SHALL CONFORM IN EVERY RESPECT TO THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND ALL LOCAL CODES. ALL WORK SHALL BE UNIFORM AND HIGH QUALITY. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND BUILT IN ACCORDANCE WITH EEMAC STANDARDS. SHALL BE CSA CERTIFIED OR CERTIFIED BY AN EQUIVALENT RECOGNIZED CERTIFYING AGENCY TO MEET CANADIAN STANDARDS AND LOCALLY APPROVED. ELECTRICAL EQUIPMENT CONSISTING OF INDIVIDUAL CERTIFIED COMPONENTS MUST ALSO HAVE A CSA OR EQUIVALENT CERTIFICATION FOR THE ENTIRE ASSEMBLY. PROVIDE INSPECTION CERTIFICATE UPON COMPLETION OF THE WORK.
 - .4 CAREFULLY EXAMINE ALL PLANS AND SPECIFICATIONS PERTAINING TO THIS CONTRACT AND VISIT SITE TO DETERMINE ALL FACTORS AFFECTING COSTS AND INCLUDE SAME IN TENDER. NOTIFY ENGINEER OF DISCREPANCIES OR CONFLICTS WITH ANY REGULATION BEFORE SUBMITTING PRICE. FAILING SUCH NOTIFICATION, THIS CONTRACTOR SHALL MEET ALL SUCH REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER.
 - .5 OBTAIN ALL NECESSARY PERMITS, PAY ALL NECESSARY FEES, GIVE ALL NECESSARY NOTICES AND OBTAIN APPROVAL OF THE ELECTRICAL AUTHORITIES HAVING JURISDICTION.
- 2 SHOP DRAWINGS
 - .1 SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT.
 - .2 FOR SHOP DRAWING'S SUBMITTED ELECTRONICALLY, INCLUDE PROJECT NAME IN SUBJECT LINE OF E-MAIL TO CONTRACTADMIN@SMSSENG.COM.
 - .3 EQUIPMENT PROPOSED SHALL MEET THE SAME STANDARDS OF PERFORMANCE, QUALITY AND WORKMANSHIP AS THAT SPECIFIED.
 - .4 SHOP DRAWINGS TO BE REVIEWED AND STAMPED BY THE TRADE AND GENERAL CONTRACTOR.
- 3 REQUEST FOR INTERPRETATION (RFI)
 - .1 FOR RFI'S SUBMITTED ELECTRONICALLY, INCLUDE PROJECT NAME AND RFI NUMBER IN SUBJECT LINE OF E-MAIL. SEND RFI'S TO CONTRACTADMIN@SMSSENG.COM.
 - .2 CONTENT OF THE RFI: INCLUDE A DETAIL DESCRIPTION OF THE ITEM NEEDING INTERPRETATION AND PROPOSED SOLUTION.

- 3 GROUNDING
 - .1 THE ENTIRE INSTALLATION SHALL BE GROUNDED IN CONFORMANCE TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE.
 - .2 GROUND ROD.
- 4 BOXES
 - .1 OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED STEEL AND SIZED ACCORDING TO THE ELECTRICAL CODE AND TO SUIT EACH APPLICATION.
 - .2 PROVIDE MOULDED BOX VAPOUR BARRIER: FACTORY MOULDED POLYETHYLENE BOX FOR USE WITH RECESSED ELECTRIC BOXES IN EXTERIOR WALLS.
 - .3 OUTLET BOXES SHOWN ON DRAWINGS AS BEING "BACK-TO-BACK" SHALL HAVE A MINIMUM OFFSET OF 200MM BETWEEN BOXES TO REDUCE SOUND TRANSMISSION.
- 5 WIRING DEVICES
 - .1 PROVIDE WIRING DEVICES FOR ALL OUTLETS AS REQUIRED AND INDICATED. COLOUR AND MOUNTING TO MATCH EXISTING.
 - .2 STANDARD OF ACCEPTANCE FOR DEVICES SHALL BE AS FOLLOWS:
 - .1 SINGLE POLE, 2-POLE, 3-WAY AND 4-WAY WALL MOUNTED GENERAL PURPOSE SWITCHES SHALL BE PREMIUM SPECIFICATION TOGGLE TYPE 15A 125VAC. TO BE SERIES HUBBELL #1201, ARROW HART #1891, BRYANT #4801 OR LEVITON #1201.
 - .2 NEMA 5-15R 15A 125VAC RECEPTACLES SHALL BE U-GROUND PARALLEL SLOT SIDE WIRED AS FOLLOWS:
 - .1 GENERAL PURPOSE DUPLEX AND SIMPLEX TO BE SERIES HUBBELL #5262, ARROW HART #5262, BRYANT #5262, CGE #4065 OR LEVITON #5262.
 - .2 COVERPLATES FOR DEVICES SHALL BE STAINLESS STEEL.
 - .3 RECEPTACLES OF CONFIGURATIONS 5-15R, 5-20R, 5-20RA, 6-15K AND 6-20RA WHERE EXPOSED TO WEATHER, SHALL BE PROVIDED WITH COVERPLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUS IS INSERTED INTO RECEPTACLE.
 - .4 APPROVED MANUFACTURERS:
 - .1 COOPER WU01 (1 GANG), WIU-2 (2 GANG)
 - .2 APPLETON WCD1U1 (1 GANG), WCDIU2 (2 GANG)
 - .3 HUBBELL RW57300 (1 GANG), RW57750 (2 GANG)
 - .5 WEATHERPROOF COVER FOR SWITCH WITH GASKETS AS INDICATED.
- 6 LIGHTING SYSTEM - GENERAL
 - .1 PROVIDE FIXTURES EQUAL TO THOSE SPECIFIED WITH LAMPS, SUSPENSION HARDWARE, LENSES AND ALL OTHER ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATION.
 - .2 REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPE.

- SECTION 16100 ELECTRICAL MATERIALS AND INSTALLATION
- 1 WIRING METHOD
 - .1 FOR GENERAL PURPOSE WIRING:
 - .1 NON-METALLIC SHEATHED CABLE: NMD90
 - .2 TWO OR THREE COPPER CONDUCTORS, WITH 90° XLPE (R90) INSULATION.
 - .3 BARE BONDING WIRE AND OVERALL JACKET OF MOISTURE RESISTANT FLAME RETARDANT PVC, WITH FT1 RATING.
 - .4 RATED 300 VOLTS.
 - .5 LEAD FREE.
 - .2 FOR OUTDOOR WIRING USE TECK TYPE CONDUCTORS. PVC CONDUIT AND RW90 CONDUCTORS MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS.
 - .3 FOR CONNECTION TO MOTORS AND MISCELLANEOUS MECHANICAL EQUIPMENT USE LIQUIDTIGHT FLEXIBLE CONDUIT.
 - .4 RUN ALL CONDUIT AND CABLE CONCEALED, PARALLEL AND PERPENDICULAR TO BUILDING LINES, STAPLED AND/OR CLIPPED IN A NEAT WORKMANLIKE MANNER.
 - .5 ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG EXCEPT AS NOTED.
- 2 INSTALLATION OF NON-METALLIC SHEATHED CABLE:
 - .1 USE NON-METALLIC SHEATHED CABLE IN WOOD FRAME CONSTRUCTION ONLY.
 - .2 INSTALL STRAPS AND BOX CONNECTORS TO CABLES AS REQUIRED.

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Revision	Description	Date

Real Property

Project title
Carrot River, SK

MOBILE HOME DESIGN

Approved by
GW

Designed by
M/Z

Drawn by
JB

Project Manager
JRB

Drawing title
ELECTRICAL SPECIFICATION

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	E400	2

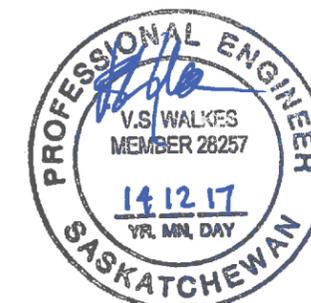


HVAC LEGEND	
	SUPPLY / MAKE-UP / OUTSIDE / COMBUSTION AIR DUCT
	RETURN AIR DUCT
	EXHAUST / RELIEF AIR DUCT
	DOOR UNDERCUT
	THERMOSTAT
	SWITCH
	GRILLE / DIFFUSER TYPE NECK SIZE QUANTITY OR NUMBER OF FLOW RATE (CFM) FACE SIZE OR THROW GRILLE OR DIFFUSER DESIGNATION
	TAGS / NOTES DESIGNATION FOR HVAC DRAWINGS

PLUMBING LEGEND	
	SANITARY WASTE ABOVE FLOOR OR GRADE
	SANITARY WASTE BELOW FLOOR OR GRADE
	VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	VENT THRU ROOF
	CLEANOUT
	ISOLATION VALVE
	FLOOR DRAIN
	PUMP
	TRAP
	PLUMBING FIXTURE DESIGNATION
	EQUIPMENT DESIGNATION OR PLUMBING RISER
	TAGS / NOTES / KITCHEN EQUIPMENT DESIGNATION FOR PLUMBING DRAWINGS

DRAWING LIST

- M000 DRAWING LIST AND SYMBOL LEGEND
- M100 MAIN FLOOR PLAN - PLUMBING
- M200 MAIN FLOOR PLAN - HVAC
- M300 MECHANICAL / ELECTRICAL ROOM - PLUMBING & HVAC
- M400 MECHANICAL SPECIFICATION
- M500 MECHANICAL SPECIFICATION
- M600 MECHANICAL DETAILS
- M700 MECHANICAL DETAILS
- M800 MECHANICAL DETAILS



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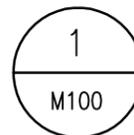
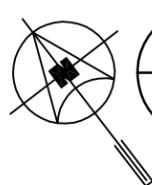
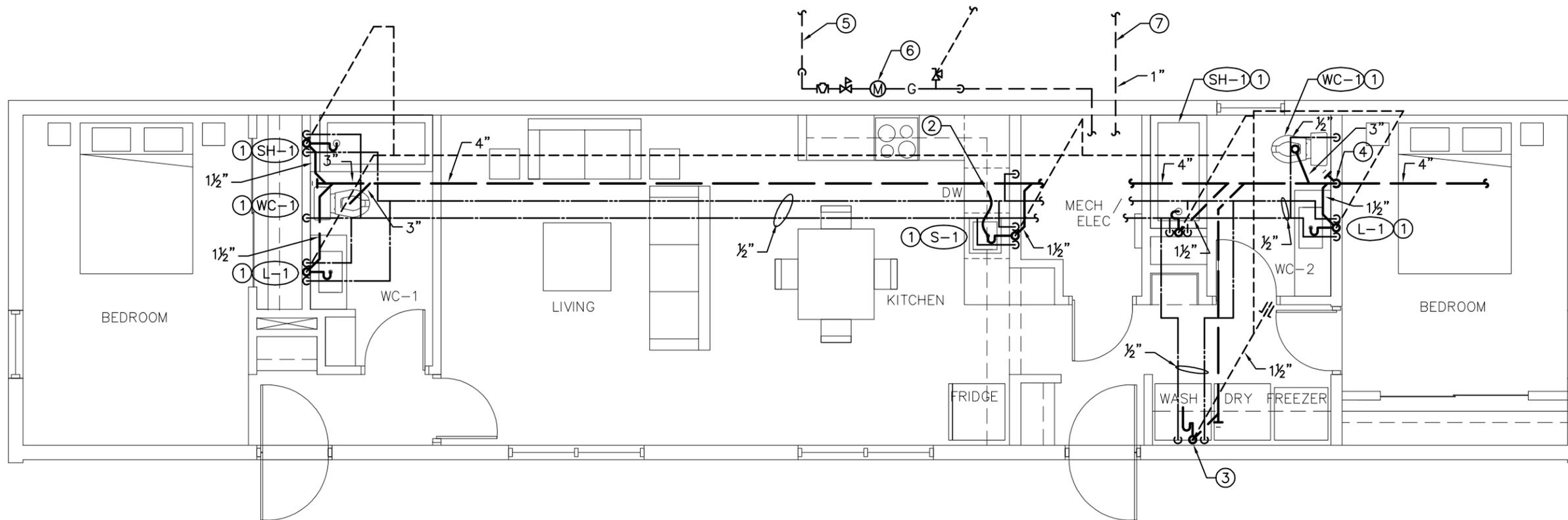
Client
Real Property

Project title
 Carrot River, SK
MOBILE HOME DESIGN

Approved by
 VSW
 Designed by
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 Drawn by
 JC/RNS
 Project Manager
 JRB
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Drawing title
DRAWING LIST AND SYMBOL LEGEND
SCALE: AS NOTED

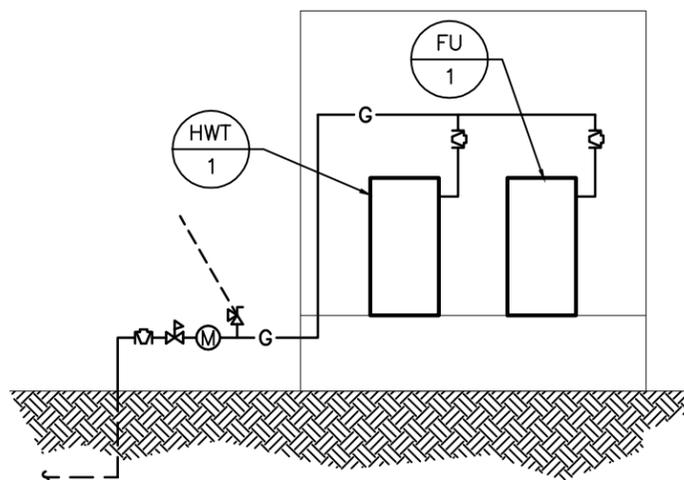
Project No.	Sheet	Revision no./
91	M000	2



1 MAIN FLOOR PLAN - PLUMBING

SCALE: 3/16"=1'-0"

TAG	NAME	GAS LOAD (BTU/HR)
FU-1	FURNACE	69,000
HWT-1	HOT WATER TANK	40,000
	TOTAL	109,000



2 GAS PIPING SCHEMATIC

SCALE: 3/16"=1'-0"

KEYNOTES

1. PROVIDE PLUMBING FIXTURE AS PER SPECIFICATION.
2. PROVIDE WATER SUPPLY AND DRAIN TO DISHWASHER. CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION TO EQUIPMENT.
3. PROVIDE AUTOMATIC WASHER FITTING AS PER SPECIFICATION. ALL PLUMBING SHALL BE ROUTED IN ARCHITECTURAL FURRING.
4. SANITARY PIPING TO DROP BELOW BUILDING COMPLETE WITH HEAT TRACE. REFER TO DRAWING M800 AND ELECTRICAL DRAWINGS FOR CONTINUATION.
5. NEW GAS SERVICE BY GAS UTILITY COMPANY. MECHANICAL CONTRACTOR TO COORDINATE. INCLUDE ALL FEES, PERMITS AND INSPECTIONS.
6. NATURAL GAS SERVICE, SHUT-OFF AND METER, ETC. BY SASK ENERGY. MECHANICAL CONTRACTOR TO COORDINATE. PROVIDE VENTING AS REQUIRED. PROVIDE PRV DOWN TO 14 IN. H2O. CONCRETE BOLLARDS FOR PROTECTION BY GENERAL CONTRACTOR. REFER TO GAS PIPING SCHEMATIC AND SCHEDULE ON THIS DRAWING.
7. NEW DOMESTIC WATER SERVICE INTO BUILDING FROM MUNICIPAL WATER MAIN. REFER TO DRAWING M300 AND M600 FOR CONTINUATION.

GENERAL NOTES

- A. DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- B. VENT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT VERSION OF THE PLUMBING CODE AND EXACT ROUTING ON SITE.
- C. ALL SANITARY PIPING SHALL BE ROUTED IN CAVITY BELOW FLOOR AND ABOVE INSULATION EXCEPT WHERE NOTED OTHERWISE.
- D. ALL PIPING ENTERING/EXITING BUILDING SHALL BE CAPPED PRIOR TO SHIPMENT AND FINAL CONNECTION TO SITE SERVICES SHALL BE MADE ON SITE.



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Revision	Description	Date
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4		
3		
2	ISSUED FOR CONSTRUCTION	14/12/18
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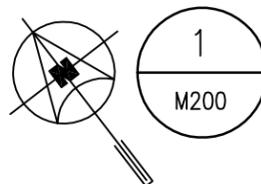
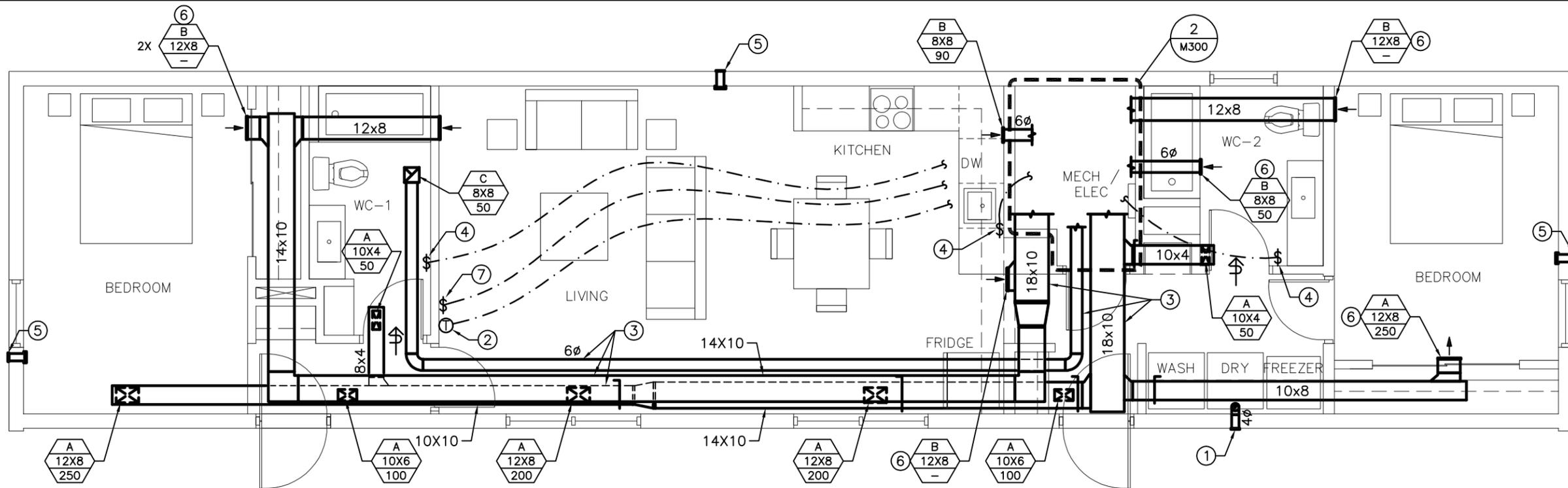
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Drawing title
MAIN FLOOR PLAN - PLUMBING
 SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	M100	2



1 MAIN FLOOR PLAN - HVAC

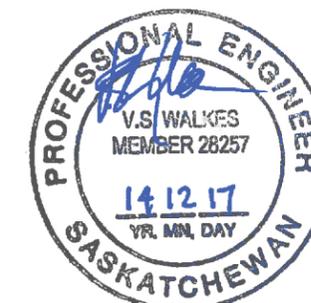
SCALE: 3/16"=1'-0"

KEYNOTES

1. PROVIDE LAUNDRY EXHAUST LOUVRE AS PER SPECIFICATION.
2. PROVIDE THERMOSTAT AS PER SPECIFICATION AND COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
3. ROUTE DUCTWORK IN ARCHITECTURAL BULKHEAD.
4. PROVIDE HRV ON/OFF SWITCH AND COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE INLET/OUTLET FOR FUTURE PORTABLE AC UNIT. PROVIDE 5" PVC PIPE THROUGH WALL. INTERIOR SIDE SHALL BE THREADED WITH CAP C/W SEAL. EXTERIOR SHALL BE WALL HOOD AS PER SPECIFICATION. FILL PIPE WITH BATT INSULATION WHICH CAN BE REMOVED PRIOR TO USE.
6. GRILLE SHALL BE INSTALLED AT HIGH LEVEL.
7. PROVIDE MAIN HRV CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES

- A. DRAWINGS ARE SCHEMATIC, DO NOT SCALE.



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MOBILE HOME DESIGN

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Drawing title
MAIN FLOOR PLAN - HVAC
 SCALE: AS NOTED

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91	M200	2

MECHANICAL SPECIFICATION

1.0 GENERAL

- .1 VISIT JOBSITE DURING TENDER. DRAWINGS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL EQUIPMENT AND SERVICES. VERIFY EXACT LOCATIONS OF EXISTING MECHANICAL EQUIPMENT AND SERVICES AND ALLOW FOR NECESSARY RELOCATING OF NOTED SERVICES (OR RECONNECTION TO EXISTING SERVICES) TO SUIT NEW CONSTRUCTION.
- .2 ALL WORK SHALL CONFORM TO SASKATCHEWAN BUILDING CODE AND LOCAL AUTHORITIES. APPLY FOR, OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- .3 COORDINATE INSTALLATION WITH ALL RELATED TRADES, ARCHITECTURAL DRAWINGS, INTERIOR DESIGN PLANS AND REFLECTED CEILING PLANS. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT AND SERVICES PRIOR TO PROCEEDING WITH WORK.
- .4 SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO CONSULTANT.
- .5 PROVIDE ONE YEAR GUARANTEE FOR ALL EQUIPMENT.
- .6 PROVIDE MILCOR ACCESS DOORS IN DRYWALL CEILINGS AND WALLS FOR ACCESS TO MECHANICAL EQUIPMENT. MINIMUM SIZE 24" X 18".
- .7 TENDER QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED EQUIPMENT, UNLESS ACCEPTANCE FOR THE USE OF EQUAL MANUFACTURERS IS OBTAINED FROM THE ENGINEER PRIOR TO SUBMISSION OF TENDERS. ALTERNATE MANUFACTURERS MAY BE QUOTED AS AN INCREASE OR DECREASE AMOUNT TO THE TENDER PRICE, WITHOUT PRIOR ACCEPTANCE OF THE ENGINEER.
- .8 FURNISH TO THE OWNER THREE (3) COMPLETE SETS OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING MAINTENANCE. REVIEW INSTRUCTIONS WITH OWNER'S REPRESENTATIVE TO ENSURE A THOROUGH UNDERSTANDING OF THE EQUIPMENT AND ITS OPERATION.
- .9 PROVIDE A MARK-UP OF THE CONTRACT DRAWINGS FOR RECORD "AS-BUILT" DRAWINGS, REVISED AS REQUIRED TO SHOW ANY CHANGES FROM THAT ORIGINALLY SHOWN.
- .10 PROVIDE AS-BUILT DRAWING IN AUTOCAD FORMAT, COMPLETE WITH DISK PAID FOR BY MECHANICAL CONTRACTOR.
- .11 ALL DUCTWORK AND PIPING TO BE INSTALLED STRAIGHT, PARALLEL TO THE BUILDING WALLS.
- .12 WHERE PIPES OR DUCTS GO THROUGH AN EXTERIOR ROOF OR WALL, THEY SHOULD BE BOXED-IN, FLASHED AND WATERPROOFED. ALLOW FOR EXPANSION AND CONTRACTION OF PIPE.
- .13 PIPE HANGERS SHALL BE ANVIL FIG. 65 FOR STEEL PIPE AND FIG. CT65 FOR COPPER PIPE, ALL WITH FIG. 140 THREADED ROD ATTACHED TO FIG. 117 EXPANSION CASE SET IN HOLES DRILLED IN CONCRETE, OR ATTACHED TO FIG. 225 OR 227 CLAMP ATTACHED TO JOISTS OR BEAMS.
- .14 ALL WIRING FOR EQUIPMENT SPECIFIED HEREIN SHALL BE BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
- .15 CONTRACTOR SHALL REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH ELECTRICAL CONTRACTOR AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. ENSURE PROPER ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED AND RELATED WORK.
- .16 PRIOR TO INSTALLATION OF THE CEILING AND DRYWALL, NOTIFY THE CONSULTANT AND ARRANGE FOR A FINAL REVIEW OF THE WORK. FOR UNDERTAKING THIS REVIEW, THE FOLLOWING SHALL BE COMPLETED:
 - .1 ALL SYSTEMS TO BE FULLY OPERATIONAL, AS-BUILT DRAWINGS SUPPLIED AND OPERATING AND MAINTENANCE MANUALS SUBMITTED. TWO (2) DAYS NOTIFICATION (IN WRITING) IS REQUIRED TO BE GIVEN TO THE CONSULTANTS PRIOR TO REVIEWS BEING UNDERTAKEN.
 - .2 ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF AN AGREED PERIOD OF TIME AFTER FINAL REVIEW AND A LETTER SHALL BE SUBMITTED TO THE CONSULTANT WITHIN THAT TIME ADVISING OF SUCH. FAILURE TO COMPLETE WORK MAY RESULT IN WORK BEING DONE BY THE OWNER AND THE COSTS DEDUCTED FROM FINAL PAYMENT.
- .17 SILICONE ALL FIXTURES TO ADJACENT WALLS, FLOORS OR COUNTERTOPS ETC.

2.0 INSULATION

- .1 INSULATE ALL DOMESTIC WATER PIPING WITH 1/2" FIBERGLAS 7 LB. DENSITY, PIPE INSULATION WITH ASJ AS PER MFG. RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.
- .2 ALL COLD PIPING INSULATION SHALL BE C/W WITH VAPOUR BARRIER.
- .3 ALL EXHAUST AND OUTDOOR AIR DUCTS FOR DISTANCE OF 6'-0" BACK FROM WALL OR ROOF OUTLET TO HAVE 2" FIBERGLAS RFFRK.
- .4 INSULATION ON PIPING IN FINISHED AREAS TO BE RECANVASSED OR COVERED WITH WHITE P.V.C. INSULATION COVER.

3.0 PLUMBING

- .1 PROVIDE LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO SUPPLY AND INSTALLATION OF SYSTEMS SHOWN ON DRAWINGS. GENERALLY THIS SHALL INCLUDE:
 - .1 DRAINAGE SYSTEM
 - .2 WATER SUPPLY SYSTEM
 - .3 GAS PIPING SYSTEM
- .2 DRAINAGE SYSTEMS
 - .1 PROVIDE COMPLETE SYSTEMS OF DRAINAGE AND VENTING TO SERVE ALL FIXTURES, EQUIPMENT, ETC. AS NOTED ON DRAWINGS AND IN ACCORDANCE WITH LOCAL CODES.
 - .2 ALL DRAINAGE PIPING TO W.C.'S SHALL BE 3" DIAM. MIN.
 - .3 CLEANOUTS:
 - .1 INSTALL CLEANOUTS AT ALL CHANGES OF DIRECTION, AT INTERVALS OF NOT OVER FIFTY FEET (50) IN HORIZONTAL RUNS, AT ALL POINTS WHERE OBSTRUCTIONS MIGHT BE FORMED AND AT ALL POINTS REQUIRED BY PLUMBING REGULATIONS OR SHOWN ON DRAWINGS.
- .3 WATER SUPPLY
 - .1 PROVIDE COMPLETE SYSTEM OF WATER SUPPLY PIPING AS NOTED ON DRAWINGS.
 - .2 GRADE HORIZONTAL RUNS OF PIPING TO DRAIN THROUGH RISERS.
 - .3 INSTALL DRAIN VALVES IN MAINS FOR COMPLETE DRAINAGE.

- .4 INSTALL DIELECTRIC INSULATING COUPLINGS BETWEEN ALL PIPES CONSTRUCTED OF DISSIMILAR METALS.
- .5 PROVIDE SHOCK ABSORBER UPSTREAM OF EVERY SOLENOID VALVE OR QUICK CLOSING VALVE. THIS APPLIES ALSO TO NIC EQUIPMENT HAVING SOLENOID VALVES SUPPLIED BY OTHER DIVISIONS, SUCH AS WASHING MACHINES, DISHWASHERS, ETC. REVIEW PROPOSED LOCATION AND TYPE OF SHOCK ABSORBERS WITH CONSULTANT PRIOR TO INSTALLATION.
- .4 INSTALL BACKFLOW PREVENTION DEVICES IN ACCORDANCE WITH THE PROVINCIAL BUILDING CODE AND ALL LOCAL BY-LAW'S. INCLUDE COSTS OF ALL TESTING.
- .5 DRAIN AND VENT PIPING
 - .1 DRAINS AND VENT PIPES SHALL BE IN ACCORDANCE WITH LOCAL OR PROVINCIAL REGULATIONS.
 - .2 UNLESS SPECIFICALLY NOTED, ALL DRAIN, WASTE AND VENT PIPING SHALL BE IPEX ABS DWV PIPE.
 - .3 ABS DWV PIPE AND FITTINGS - IPEX ABS DRAIN, WASTE AND VENT PIPE AND FITTINGS SHALL BE CERTIFIED TO CSA B181.1
 - .4 FITTINGS - ABS DWV PLASTIC FITTINGS CERTIFIED TO CSA B181.1
 - .5 JOINING OF PIPE SHALL BE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- .6 WATER PIPING
 - .1 PROVIDE UPONOR CROSS LINKED POLYETHYLENE MANUFACTURED TO PEX-a OR ENGEL-METHOD STANDARD AND NSF-CERTIFIED SDR-9. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F876, F877, CSA IN ACCORDANCE WITH THE ASTM STANDARD.
 - .2 INSTALL IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- .7 BALL VALVES
 - .1 TOYO FIG. 5049A.
- .8 CLEANOUTS
 - .1 CLEANOUTS IN ABS DWV SHALL BE INSTALLED AS PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- .9 GAS PIPING
 - .1 THE MECHANICAL CONTRACTOR SHALL ARRANGE WITH NATURAL GAS UTILITY FOR NEW GAS SERVICE INCLUDING PRESSURE REGULATOR. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE COST OF THIS CONTRACT.
 - .2 GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A-53 SCHEDULE 40 WITH 150 LB STANDARD BLACK MALLEABLE IRON SCREWED FITTINGS. ALL WORK SHALL COMPLY WITH CAN/CSA, A NATIONAL STANDARD OF CANADA, NATURAL GAS AND PROPANE INSTALLATION CODE. AND SHALL BE PERFORMED BY FULLY QUALIFIED GAS FITTER AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE.
- .10 CLEANOUT ACCESS COVER
 - .1 ZURN ZANB-1460-13-7" DIAM. POLISHED NICKEL BRONZE FRAME AND COVER. CLEANOUT ACCESS COVERS IN AREAS HAVING FLOOR FINISH SUCH AS V.A. TILE, TERRAZZO, OR CARPET, SHALL BE SELECTED TO SUIT FINISH. COOPERATE WITH APPROPRIATE TRADES TO APPLY FINISH TO CLEANOUT COVERS SO THAT THEY WILL BE FLUSH WITH FLOOR, INCONSPICUOUS, AND ACCESSIBLE.
 - .2 CLEANOUTS IN WALLS SHALL BE LOCATED ADJACENT TO AN ACCESS DOOR, OR SHALL HAVE SUITABLY FINISHED ACCESS COVER FLUSH WITH WALL SO AS TO PRESENT NEAT FINISHED APPEARANCE AND LEAVE CLEANOUT EASILY ACCESSIBLE.
- .11 CLEANING AND FLUSHING
 - .1 ON COMPLETION, FLUSH OUT PIPING SYSTEM TO REMOVE ANY FOREIGN MATERIAL IN PIPING.
- .12 TESTING
 - .1 PRESSURE TEST ALL PIPING SYSTEMS AS FOLLOWS:
 - .1 PLUMBING SYSTEM - IN ACCORDANCE WITH LOCAL REGULATIONS.
 - .2 WATER SUPPLY PIPING - TEST WITH AIR TO 100 PSIG AT HIGHEST POINT OF SYSTEM. MAINTAIN PRESSURE WITHOUT LOSS FOR 4 HOURS.
 - .3 CONSULTANT'S REPRESENTATIVE SHALL WITNESS TESTS. GIVE 48 HOURS NOTICE IN ADVANCE OF TESTS.
 - .4 NATURAL GAS SYSTEM - IN ACCORDANCE WITH LOCAL REGULATIONS.
 - .5 ALL TESTING SHALL BE PRIOR TO SHIPMENT.
- .13 HANGERS
 - .1 WATER - ANVIL CT65 PLATED CLEVIS.
 - .2 DRAINAGE - ANVIL 260 CLEVIS.
 - .3 INSTALL HANGERS 6 FT. ON CENTRE FOR PIPES UP TO 1", 8 FT. ON CENTRE FOR PIPES 1 1/4" AND LARGER.
- .14 FIXTURES
 - .1 WC-1 WATER CLOSET (FLUSH TANK)
 - .1 ZURN Z5570-VL PRESSURE ASSISTED, ELONGATED, TWO PIECE TOLILET. 1.6 GPF, VITREOUS CHINA, SIPHON JET FLUSH ACTION, 2-1/8" FULLY GLAZED TRAPWAY, INCLUDES BOLT CAPS, VANDAL PROOF LID.
 - .2 CENTOCO SEAT, 820STSS EXTRA HEAVY DUTY PLASTIC, ELONGATED OPEN FRONT WITH COVER, CHECK HINGE AND STAINLESS STEEL HINGE POSTS/NUTS ETC, ANTI MICROBIAL, WHITE.
 - .3 SPEEDWAY CHROME PLATED FLEXIBLE SUPPLY WITH WHEEL HANDLE STOP, CHROME PLATED WALL ESCUTCHEON.
 - .2 L-1 LAVATORY
 - .1 IKEA GODMORGON/EDEBOVIKEN SINK CABINET WITH TWO DRAWERS, WHITE STAINED OAK EFFECT.
 - .2 IKEA ENSEN BATHROOM FAUCET CHROME PLATED.
 - .3 ORREVIK SINK STRAINER.
 - .4 SPEEDWAY FLEXIBLE LAV. SUPPLIES WITH S.D.A.S. AND INLET EXTENSION TUBES.



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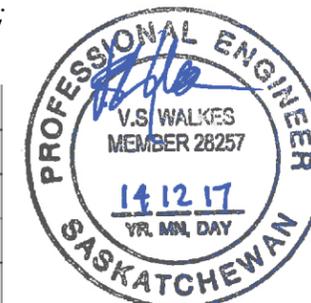
- .3 SH-1 SHOWER
 - .1 FIAT MTS6200100L73-K1002, HIGH GLOSS ACRYLIC WITH FIBREGLASS REINFORCEMENT 1-PIECE TUB/SHOWER WITH LEFT HAND DRAIN. COMPLETE WITH STAINLESS STEEL CURTAIN ROD AND LIGHT.
 - .2 MOEN 8346 SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE WITH HAND-HELD SHOWER SYSTEM.
- .4 S-1 KITCHEN SINK
 - .1 IKEA BOHOLMEN 1 BOWL SINK WITH DRAINER, STAINLESS. COMPLETE WITH ATLANT STRAINER.
 - .2 IKEA BUDSKAR KITCHEN FAUCET, CHROME PLATED.
 - .3 SPEEDWAY FLEXIBLE LAV. SUPPLIES WITH S.D.A.S. AND INLET EXTENSION TUBES.
- .15 EQUIPMENT
 - .1 HOT WATER TANK
 - .1 BRADFORD WHITE PD1-40S6FBN, 40 GALLON NATURAL GAS WATER HEATER, 40000 BTU/HR INPUT, POWER DIRECT VENT.
 - .2 WATTS 10L T&P RELIEF VALVE.
 - .2 AUTOMATIC WASHER SUPPLY FITTING
 - .1 WATTS DUOCLOZURE MANUAL WASHING MACHINE SHUT-OFF VALVE WITH DRAIN AND DECORATIVE WALL BOX.
 - .3 FLOOR DRAINS
 - .1 FFD:
 - .1 ZURN ZN-415-R CAST IRON BODY, FLOOR CLAMPING RING WITH GRATE AND 3" X 9" (75MM X 225MM) BRONZE OVAL FUNNEL STRAINER, ONE PIECE FULL PORT OPENING FUNNEL GRATE.
 - .2 ROUGH-IN TO ADJACENT FLOORING MATERIAL AS PER MANF. INSTALLATION RECOMMENDATIONS.
- 4.0 OUTSIDE SERVICES
 - .1 WATER SERVICE
 - .1 PIPE SHALL BE URECON DR 11, HDPE (CTS) PRE-INSULATED PIPE COMPLETE WITH HEAT TRACE. INSULATION SHALL BE 2" THICK POLYURETHANE FOAM. INSULATION SHALL BE PROTECTED WITH BLACK POLYETHYLENE JACKET.
 - .2 JOINTING SHALL BE AS PER MANUFACTURES WRITTEN INSTRUCTIONS.
 - .3 PROVIDE COMPLETE SELF-REGULATING HEAT TRACE SYSTEM FOR THE TOTAL LENGTH OF THE PIPING SYSTEM AND COORDINATE WITH ELECTRICAL.
 - .2 SEWER
 - .1 PIPE SHALL BE URECON DR 11, HDPE PRE-INSULATED PIPE COMPLETE WITH HEAT TRACE. INSULATION SHALL BE 2" THICK POLYURETHANE FOAM. INSULATION SHALL BE PROTECTED WITH BLACK POLYETHYLENE JACKET.
 - .2 JOINTING SHALL BE AS PER MANUFACTURES WRITTEN INSTRUCTIONS.
 - .3 PROVIDE COMPLETE SELF-REGULATING HEAT TRACE SYSTEM FOR THE TOTAL LENGTH OF THE PIPING SYSTEM AND COORDINATE WITH ELECTRICAL.
 - .3 BED PIPING ON SAND ON UNDISTURBED EARTH.
 - .4 BACKFILL EXCAVATION WITH WELL COMPACTED GRANULAR SAND AND GRAVEL CONFORMING TO SPEC. WBX-3.
 - .5 CONFIRM SIZE, DEPTH AND LOCATION OF ALL SERVICES WITH TOWN OR UTILITY CONCERNED.
 - .6 WATER MAIN TO BE FLUSHED AND CHLORINATED AFTER INSTALLATION. PROVIDE TEST REPORTS TO CONSULTANT
- 5.0 VENTILATION
 - .1 DUCTWORK
 - .1 GALVANIZED IRON SCHEDULE:

MAX. SIDE	GAUGES (USSG)	BRACING
UP TO 24"	24	NONE
ROUND DUCT UP TO 19"	26	NONE
 - .2 WHERE DUCT WIDTH EXCEEDS 18" IN LARGEST DIMENSION, STIFFEN BY BREAKING SHEETS DIAGONALLY.
 - .3 DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. IF DUCTS ARE ACOUSTICALLY LINED, OUTSIDE DUCT SIZE TO BE INCREASED TO SUIT.
 - .4 DUCTWORK SHALL BE CONSTRUCTED AS RECOMMENDED IN ASHRAE GUIDE.
 - .5 SEAL ALL JOINTS (NEW AND EXISTING) AIRTIGHT WITH DURO-DYNE DUCT SEALER OR EQUAL, IN STRICT ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. PRIOR TO APPLICATION, DUCTWORK TO BE DRY AND FREE OF GREASE, ETC. USE 1/4" BEAD OF MATERIAL ALONG JOINTS. MATERIAL, WHEN DRY, TO HAVE 1/8" DEPTH EXTENDING 1" ON EACH SIDE OF JOINT OR SEAM.
 - .6 WHERE DUCTWORK CONFLICTS WITH MECHANICAL PIPING AND IT IS NOT POSSIBLE TO DIVERT DUCTWORK OR PIPING TO STAY WITHIN ALLOWABLE SPACE LIMITATIONS, PROVIDE DUCT EASEMENTS. EASEMENTS NOT REQUIRED ON PIPES 100MM (4") AND SMALLER OUTSIDE DIMENSION, UNLESS THIS EXCEEDS 20% OF DUCT AREA. HANGERS AND STAYS IN DUCTWORK TO BE PARALLEL TO AIR FLOW. IF EASEMENT EXCEEDS 20% OF DUCT AREA, DUCT TO BE SPLIT INTO TWO DUCTS WITH ORIGINAL DUCT AREA BEING MAINTAINED. EASEMENTS TO BE APPROVED BY CONSULTANT BEFORE INSTALLATION.
 - .7 SIZE ROUND DUCTS, INSTALLED IN PLACE OF RECTANGULAR DUCTS, FROM ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS.
 - .8 PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS FOR CONFLICTION WITH OTHER TRADES.

- .9 DUCT AND EQUIPMENT SUPPORTS, HANGERS AND INSERTS
 - .1 SUPPORT HORIZONTAL DUCTS ON MAXIMUM 8'-0" CENTRES BY NON-PERFORATED GALV. STEEL, RIVETED STRAP FOR DUCTWORK 36" (EITHER DIMENSION) OR LESS, AND MINIMUM 1" X 1" X 1/8" GALV. IRON PASSING UNDER DUCTS 37" OR OVER (EITHER DIMENSION) WITH 3/8" DIAM. THREADED RODS SUSPENDING ANGLES FROM STRUCTURE.
- .10 MANUAL VOLUME DAMPERS TO BE #16 GA. GALV. STEEL, STIFFENED. DAMPERS HARDWARE TO BE DURO-DYNE KS-145, KS-385 OR KS-12 AS RECOMMENDED BY MANUFACTURER.
- .11 LAUNDRY DUCT SHALL BE CONSTRUCTED OF ALUMINIUM AND BE FREE OF ANY INTERNAL OBSTRUCTIONS (SCREWS, NAILS, BURRS, ETC.).
- .12 DIFFUSERS, GRILLES AND REGISTERS
 - .1 REFER TO SCHEDULE.
- .13 LOUVERS/WALL HOODS
 - .1 HEAT RECOVERY VENTILATOR
 - .1 PROVIDE ALUMINIUM 6" WALL HOODS. INTAKE COMPLETE WITH 1/2" MESH AND EXHAUST COMPLETE WITH BACK DRAFT DAMPER.
 - .2 LAUNDRY
 - .1 PROVIDE ALUMINIUM 4" WALL HOOD COMPLETE WITH FLAPPER.
 - .3 AC UNIT
 - .1 PROVIDE ALUMINIUM 4" WALL HOODS. INTAKE COMPLETE WITH 1/2" MESH AND EXHAUST COMPLETE WITH BACK DRAFT DAMPER.
- .14 HEAT RECOVERY VENTILATOR (HRV)
 - .1 PROVIDE VENMAR AVS HRV CONSTRUCTO 2.0ES, 6" ROUND PORTS, CROSSFLOW/POLYPROPYLENE CORE, LOW AND HIGH SPEED. COMPLETE WITH CONSTRUCTO WALL CONTROL, THREE 20-MINUTE LIGHTED PUSH BUTTON CONTROLLERS.
- .15 FURNACE
 - .1 PROVIDE GOODMAN GMH950703BXA, 69000 BTU/HR INPUT NATURAL GAS FURNACE.
- 0 TESTING AND BALANCING
 - .1 AIR SYSTEMS SHALL BE BALANCED AND TESTED BY AN INDEPENDENT AIR BALANCE AGENCY (AABC) TO PROVIDE AIR QUANTITIES AS SHOWN. PROVIDE AIR BALANCE REPORT FOR REVIEW BY THE CONSULTANT. SUBMIT TWO COPIES FOR REVIEW UPON COMPLETION. PROVIDE DAMPER STICKER UPON FINAL BALANCING COMPLETION.
 - .2 ALL TESTING SHALL BE COMPLETE PRIOR TO SHIPMENT.
- 0 CONTROLS
 - .1 PROVIDE THREE HARD COVER COPIES OF INFORMATION PERTAINING TO TEMPERATURE CONTROL SYSTEM FOR OWNER'S PERMANENT RECORD. INCLUDE SCHEMATIC DRAWINGS AND CONTROL SEQUENCE WRITE-UPS OF ALL CONTROL SYSTEMS.
 - .2 PROVIDE ALL LABOUR, MATERIAL, PLANT, TOOLS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO COMPLETION OF TEMPERATURE CONTROLS SYSTEMS AS NOTED HEREIN AND/OR SHOWN ON DRAWINGS.
 - .3 ALL NEW WORK RELATED TO CONTROLS SHALL BE PERFORMED BY A QUALIFIED CONTROLS SUBCONTRACTOR.
 - .4 PROVIDE COMPLETE SYSTEM OF AUTOMATIC CONTROLS FOR SYSTEMS INDICATED.
 - .5 PROVIDE ALL NECESSARY DAMPERS, DAMPER OPERATORS, THERMOSTATS, VALVES, VALVE OPERATORS, CONTROLLERS, INDICATION, RELAYS, CUMULATORS, POSITIONERS, SOLENOID VALVES, SWITCHES, CLOCKS, TRANSFORMERS, ETC., TO MAKE COMPLETE AND OPERABLE SYSTEM.
 - .6 MECHANICAL SUB-CONTRACTOR TO DISTRIBUTE AND MOUNT ALL PIPE CONNECTED EQUIPMENT.
 - .7 ELECTRICAL TO SUPPLY AND INSTALL ALL CONDUIT, WIRE AND CONNECTIONS FROM DISTRIBUTION PANELS TO LINE SIDE OF MAGNETIC STARTERS AND THERMAL OVERLOAD SWITCHES, AND FROM LOAD SIDE OF STARTERS AND SWITCHES TO MOTORS.
 - .8 CONTROL CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONDUIT, WIRE, ELECTRIC RELAYS, CONNECTIONS AND OTHER DEVICES REQUIRED FOR CONTROL CIRCUIT WIRING FOR SYSTEMS AS SPECIFIED HEREIN WHETHER LINE OR LOW VOLTAGE. ELECTRICAL WIRING SHALL BE INSTALLED IN CONFORMANCE WITH CSA, ULC, MANITOBA BUILDING CODE AND DIVISION 16 ELECTRICAL REQUIREMENTS.
 - .9 SEQUENCES OF OPERATION
 - .1 FURNACE
 - .1 PROVIDE PROGRAMMABLE THERMOSTAT TO MODULATE FURNACE TO MAINTAIN SPACE SET TEMPERATURE.
 - .2 HEAT RECOVERY VENTILATOR (HRV)
 - .1 MAIN WALL CONTROLLER SHALL BE CAPABLE OF EITHER BEING SET TO OPERATE UNIT BASED ON SPACE HUMIDITY SETPOINT OR USER CONTROL.
 - .2 KITCHEN CONTROLLER SHALL BE 20-MINUTE LIGHTED PUSH BUTTON.
 - .3 BATHROOM CONTROLLER SHALL BE 20-MINUTE LIGHTED PUSH BUTTON.
 - .4 HRV SHALL BE INTERLOCKED TO FURNACE SUCH THAT WHEN THE HRV OPERATES THE FURNACE FAN OPERATES.

Grilles, Registers and Diffusers

TYPE	MANUFACTURER	MODEL	BORDER/ FACE SIZE	CORE	VOLUME CONT.	FRAME	FASTNG.	FINISH	REMARKS
A	E.H. PRICE	520D	F	-	Steel Damper	L	A	B12	
B	E.H. PRICE	530D	F	-	Steel Damper	L	A	B12	
C	E.H. PRICE	80	F	-	Steel Damper	-	A	B12	



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Revision	Description	Date
5		
4		
3		
2	ISSUED FOR CONSTRUCTION	14/12/18
1	ISSUED FOR 99% REVIEW	14/12/05
0	ISSUED FOR 33% REVIEW	14/10/31

Client

Real Property

Project title

Carrot River, SK

MOBILE HOME DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
JC/RNS

Project Manager
JRB

Client

Drawing title

MECHANICAL SPECIFICATION

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	M500	2

Revision	Description	Date
5		
4		
3		
2	ISSUED FOR CONSTRUCTION	14/12/18
1	ISSUED FOR 99% REVIEW	14/12/05
0	ISSUED FOR 33% REVIEW	14/10/31

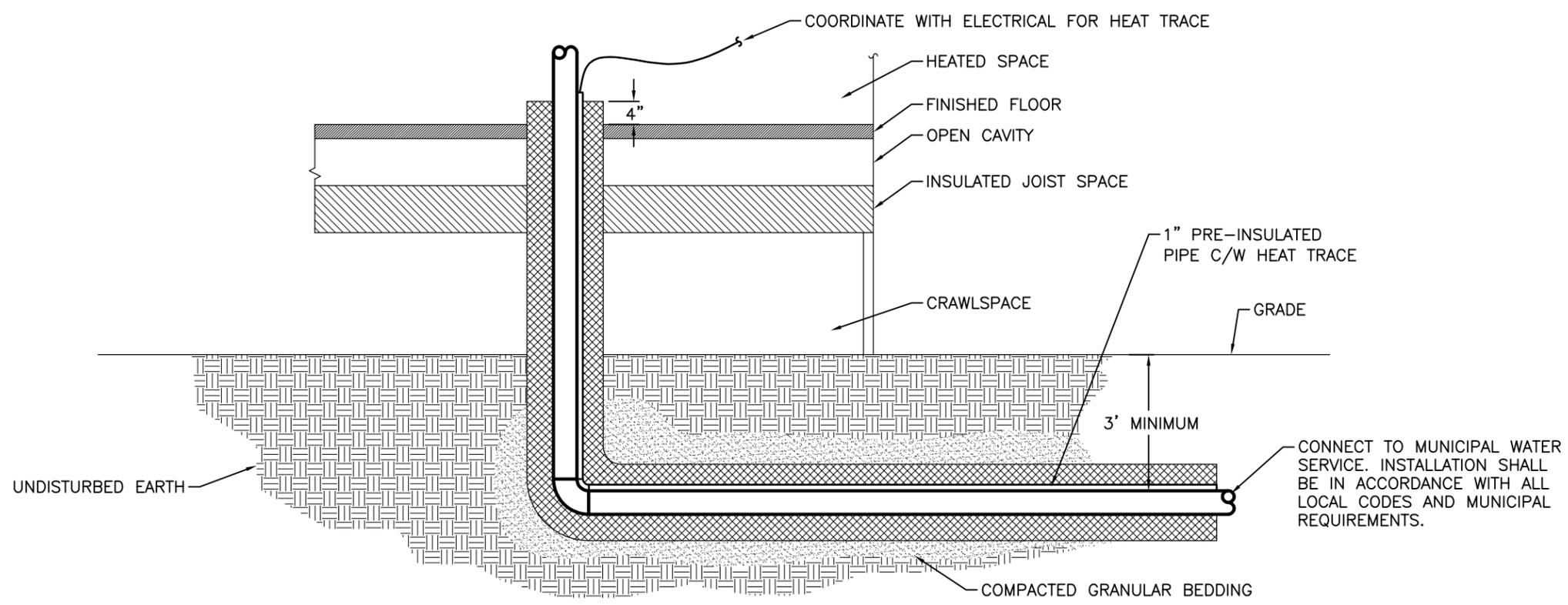
Client
Real Property

Project title
 Carrot River, SK
MOBILE HOME DESIGN

Approved by
 VSW
 Designed by
 JRB
 Drawn by
 JC/RNS
 Project Manager
 JRB
 Client

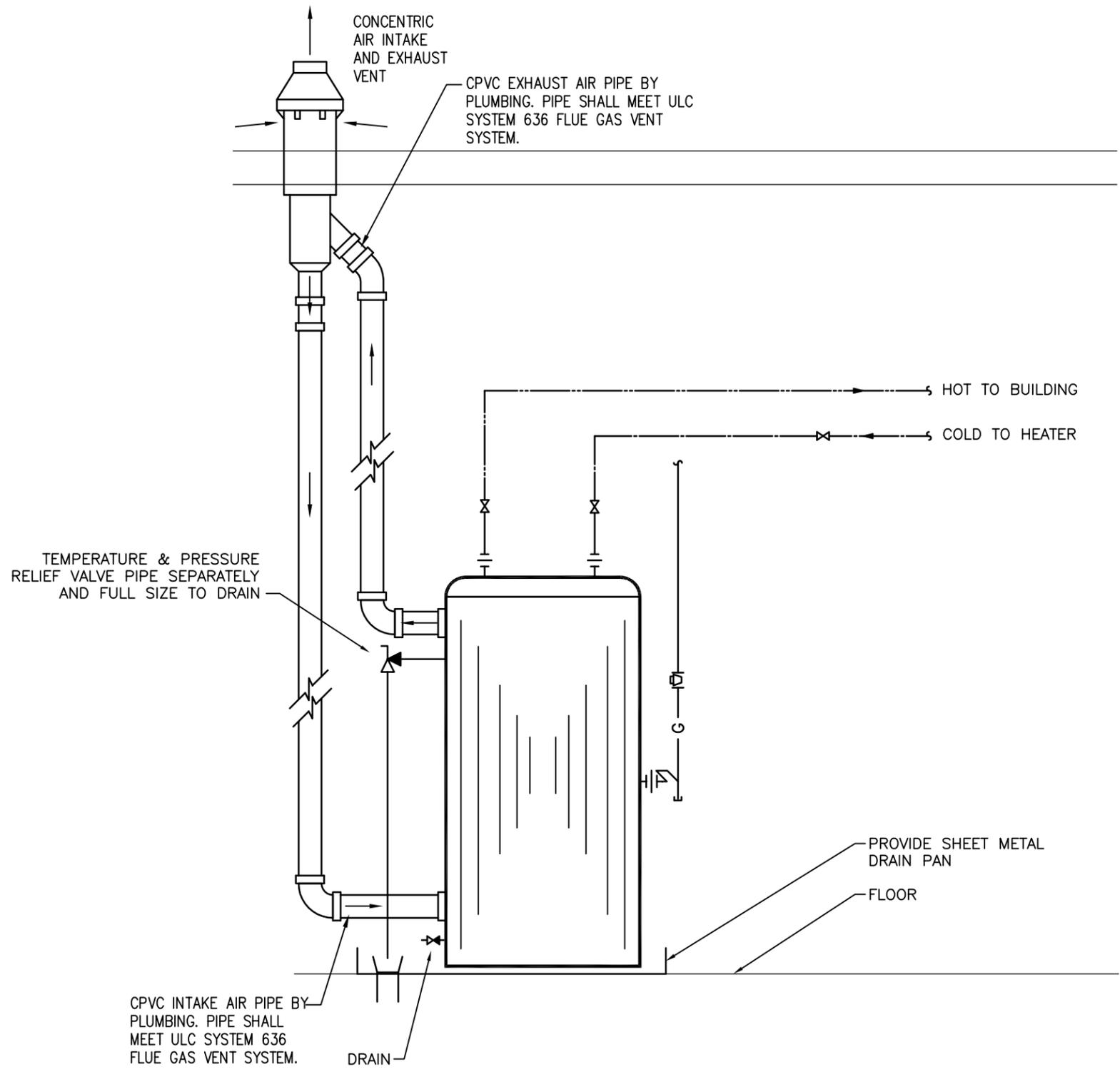
Drawing title
MECHANICAL DETAILS
 SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	M600	2



1 INCOMING WATER SERVICE
 M600 SCALE: NTS





1 HOT WATER TANK DETAIL
M700 SCALE: NTS



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0	ISSUED FOR 33% REVIEW	14/10/31

Client

Real Property

Project title

Carrot River, SK

MOBILE HOME DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
JC/RNS

Project Manager
JRB

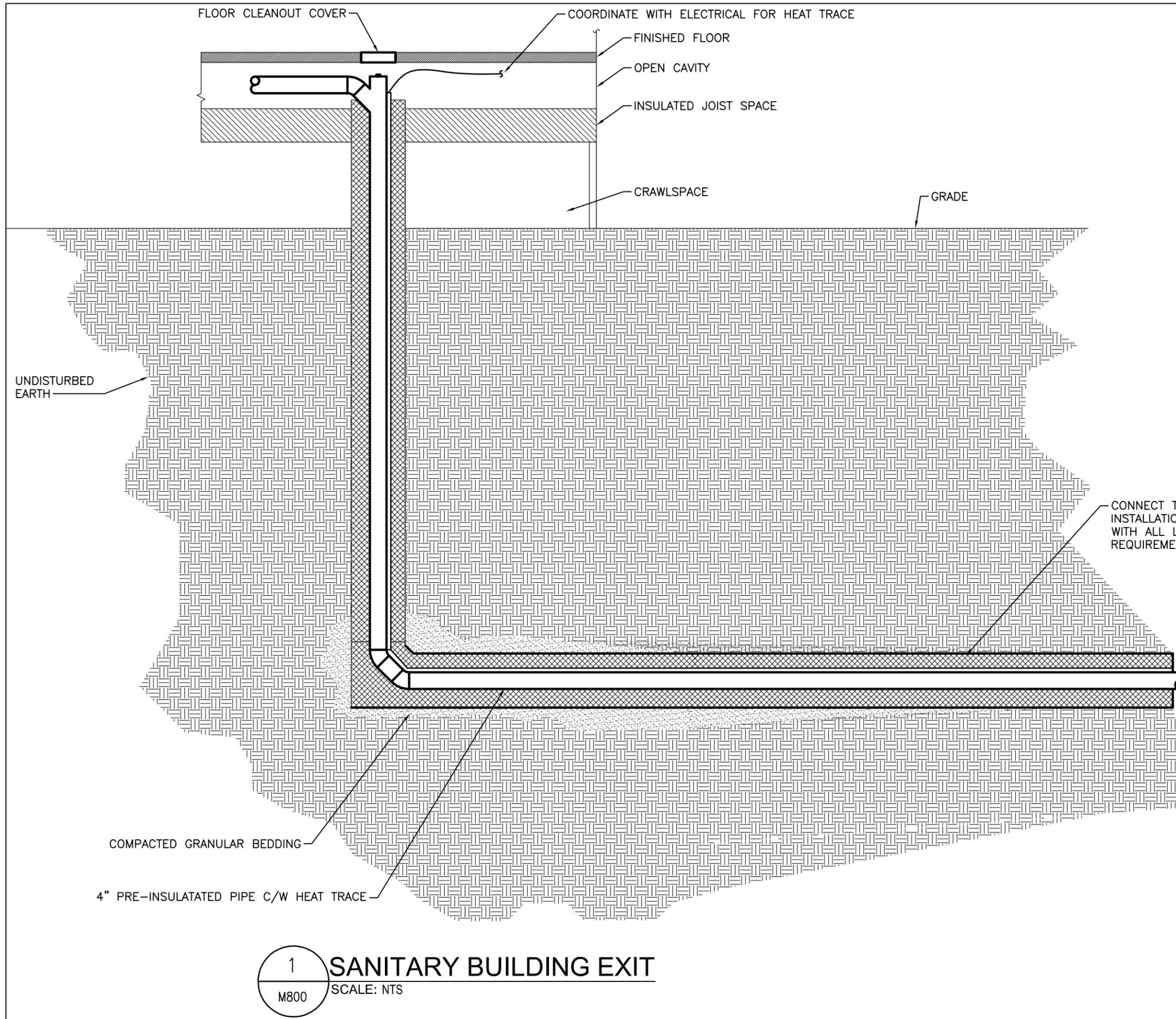
Client

Drawing title

MECHANICAL DETAILS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	M700	2



CONNECT TO MUNICIPAL SANITARY SEWER. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND MUNICIPAL REQUIREMENTS.

1 SANITARY BUILDING EXIT
M800 SCALE: NTS

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Revision	Description	Date
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4		
3		
2	ISSUED FOR CONSTRUCTION	14/12/18
1	ISSUED FOR 99% REVIEW	14/12/05
0	ISSUED FOR 33% REVIEW	14/10/31

Client
Real Property

Project title
Carrot River, SK
MOBILE HOME DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
JC/RNS

Project Manager
JRB

Client

Drawing title
MECHANICAL DETAILS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	M800	2



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 2014-1217



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Revision	Description	Date
5		
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	14/12/19
0	99% SUBMISSION	14/12/05

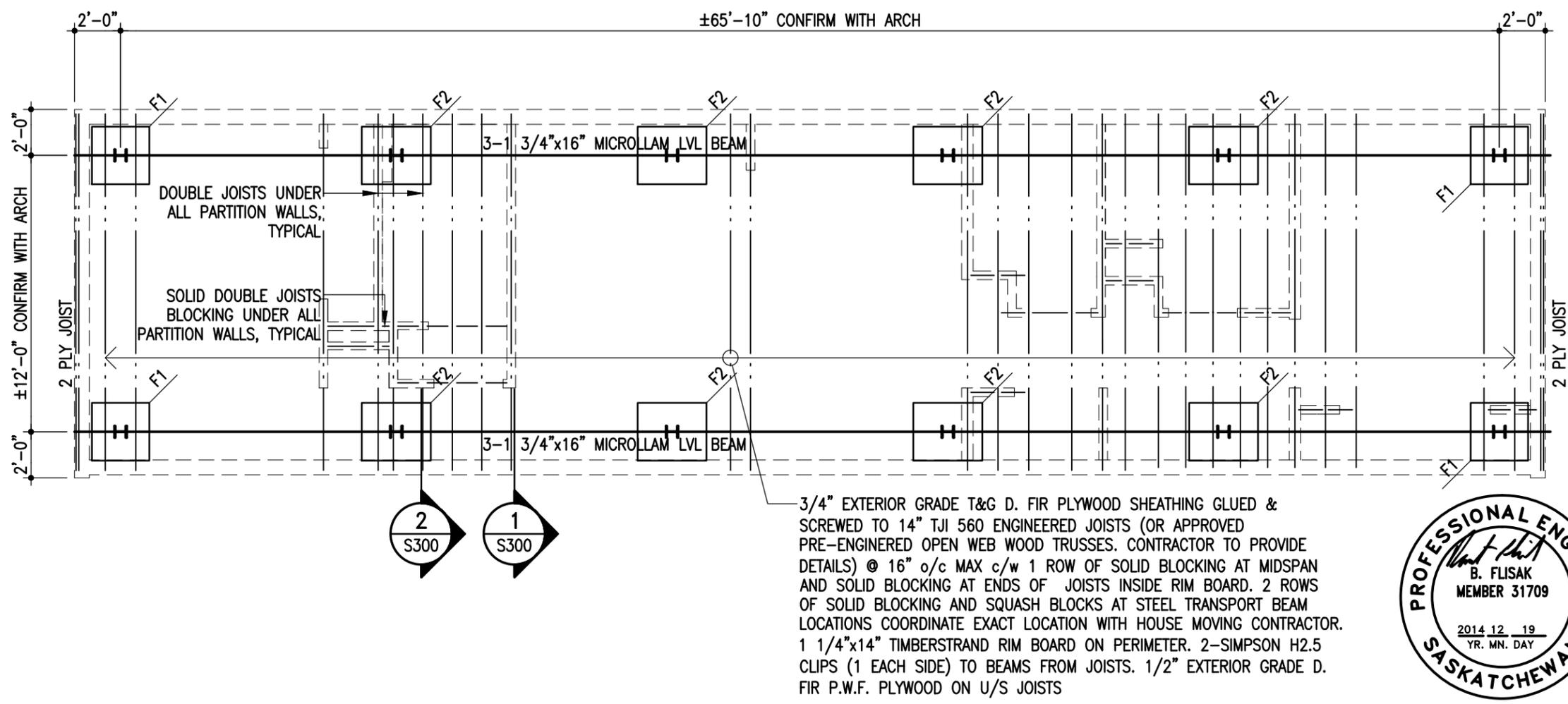
Client:
RCMP

Project title:
 Carrot River, SK
MOBILE HOME DESIGN

Approved by:
 Designed by:
BF
 Drawn by:
ZG
 Project Manager:
RD
 Client:
RCMP

Drawing title:
MAIN FLOOR/FOUNDATION FRAMING PLAN
 SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	S100	0



3/4" EXTERIOR GRADE T&G D. FIR PLYWOOD SHEATHING GLUED & SCREWED TO 14" TJI 560 ENGINEERED JOISTS (OR APPROVED PRE-ENGINEERED OPEN WEB WOOD TRUSSES. CONTRACTOR TO PROVIDE DETAILS) @ 16" o/c MAX c/w 1 ROW OF SOLID BLOCKING AT MIDSPAN AND SOLID BLOCKING AT ENDS OF JOISTS INSIDE RIM BOARD. 2 ROWS OF SOLID BLOCKING AND SQUASH BLOCKS AT STEEL TRANSPORT BEAM LOCATIONS COORDINATE EXACT LOCATION WITH HOUSE MOVING CONTRACTOR. 1 1/4"x14" TIMBERSTRAND RIM BOARD ON PERIMETER. 2-SIMPSON H2.5 CLIPS (1 EACH SIDE) TO BEAMS FROM JOISTS. 1/2" EXTERIOR GRADE D. FIR P.W.F. PLYWOOD ON U/S JOISTS

NOTE: NO GEOTECHNICAL INVESTIGATION FOR SITE PROVIDED TO CONSULTANT BY OWNER. FOOTINGS DESIGNED ON BASIS OF 2000 PSF ALLOWABLE BEARING PRESSURE. DESIGN BEARING PRESSURE AND DIFFERENTIAL MOVEMENT POTENTIAL TO BE CONFIRMED ON SITE BY TESTING BY OWNER. OWNER ACCEPTS RISKS OF FOUNDATION MOVEMENTS AND CAPACITY IF BUILDING IS CONSTRUCTED WITHOUT GEOTECHNICAL INVESTIGATION.

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CERTIFICATE OF AUTHORIZATION
 CROSIER, KILGOUR & PARTNERS LTD.
 NUMBER **47**
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE STR SASK. REG. No. 31709 SIGNATURE

MAIN FLOOR/FOUNDATION FRAMING PLAN

SCALE: 3/16" = 1'-0"

DESIGN DEAD LOAD = 20 PSF
 DESIGN LIVE LOAD = 40 PSF (RESIDENTIAL OCCUPANCY)

- F1 2'-6"x2'-6" FOOTING ASSEMBLED FROM STACKED 4x4 PWF TIMBERS FASTENED TOGETHER WITH 8" GALVINIZED ARDOX NAILS @ 4" o/c
- F2 2'-6"x4'-0" FOOTING ASSEMBLED FROM STACKED 4x4 PWF TIMBERS FASTENED TOGETHER WITH 8" GALVINIZED ARDOX NAILS @ 4" o/c

FOOTING INSTALLATION:

1. REMOVE TOP SOIL AND ORGANICS TO EXPOSE UNDERLYING NATIVE SOIL.
2. LOCALLY EXCAVATE TO EMBED BOTTOM OF FOOTING IN SOIL.
3. UTILIZE COMPACTED GRANULAR FILL AS REQUIRED TO LEVEL FOOTINGS RELATIVE TO EACH OTHER.
4. UPON COMPLETION OF SKIRT PROVIDE UNIFORM LAYER OF SAND IN CRAWLSPACE MIN 4" HIGH.



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Revision	Description	Date
5		
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	14/12/19
0	99% SUBMISSION	14/12/05

Client	RCMP	
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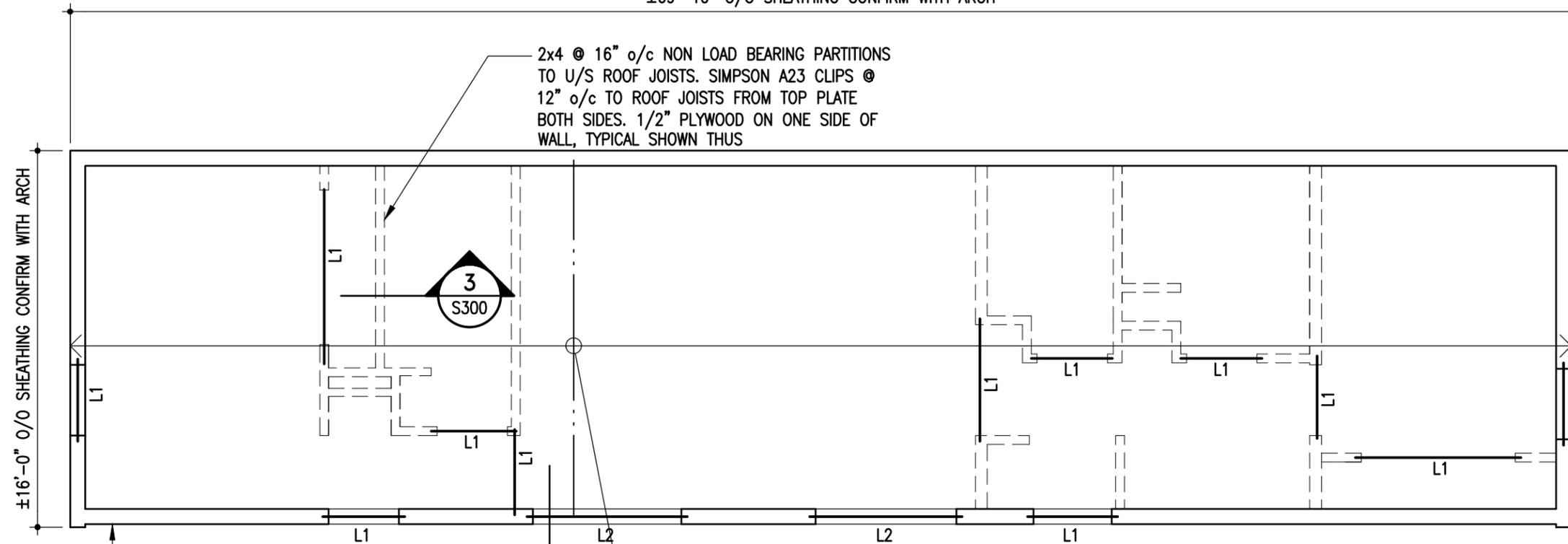
Project title	Carrot River, SK	
	MOBILE HOME DESIGN	

Approved by		
Designed by	BF	
Drawn by	ZG	
Project Manager	RD	
Client	RCMP	

Drawing title	ROOF FRAMING PLAN	
	SCALE: AS NOTED	

Project No.	Sheet	Revision no./
91	S200	0

±69'-10" O/O SHEATHING CONFIRM WITH ARCH



2x4 @ 16" o/c NON LOAD BEARING PARTITIONS TO U/S ROOF JOISTS. SIMPSON A23 CLIPS @ 12" o/c TO ROOF JOISTS FROM TOP PLATE BOTH SIDES. 1/2" PLYWOOD ON ONE SIDE OF WALL, TYPICAL SHOWN THUS



2x6 @ 16" o/c WOOD STUD WALL. DOUBLE CONTINUOUS TOP PLATE, SINGLE PT CONTINUOUS BOTTOM PLATE. 1/2" EXTERIOR GRADE D. FIR PLYWOOD SHEATHING ON EXTERIOR. 1/2" PLYWOOD ON INTERIOR FACE, TYPICAL ALL AROUND

3/4" EXTERIOR GRADE T&G D. FIR PLYWOOD SHEATHING GLUED & SCREWED TO 14" TJI 560 ENGINEERED JOISTS (OR APPROVED PRE-ENGINEERED OPEN WEB WOOD TRUSSES. CONTRACTOR TO PROVIDE DETAILS) @ 16" o/c MAX c/w 3 ROWS OF SOLID BLOCKING. 1 1/4"x14" TIMBERSTRAND RIM BOARD ON PERIMETER. 2-SIMPSON H2.5 CLIPS (1 EACH SIDE) EACH END. 1/2" PLYWOOD ON U/S JOISTS

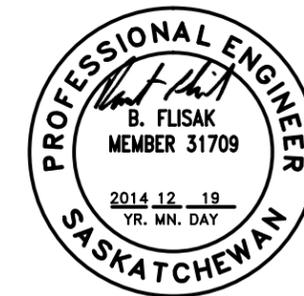


ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

DESIGN DEAD LOAD = 20 PSF
 DESIGN LIVE LOAD (SNOW) = 36 PSF

- L1 2-2x10 LINTEL. 2 CRIPPLE
1 FULL HEIGHT STUD EACH END
- L2 2-1 3/4"x9 1/4" MICROLLAM LVL
2 CRIPPLE, 1 FULL HEIGHT STUD EACH END



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