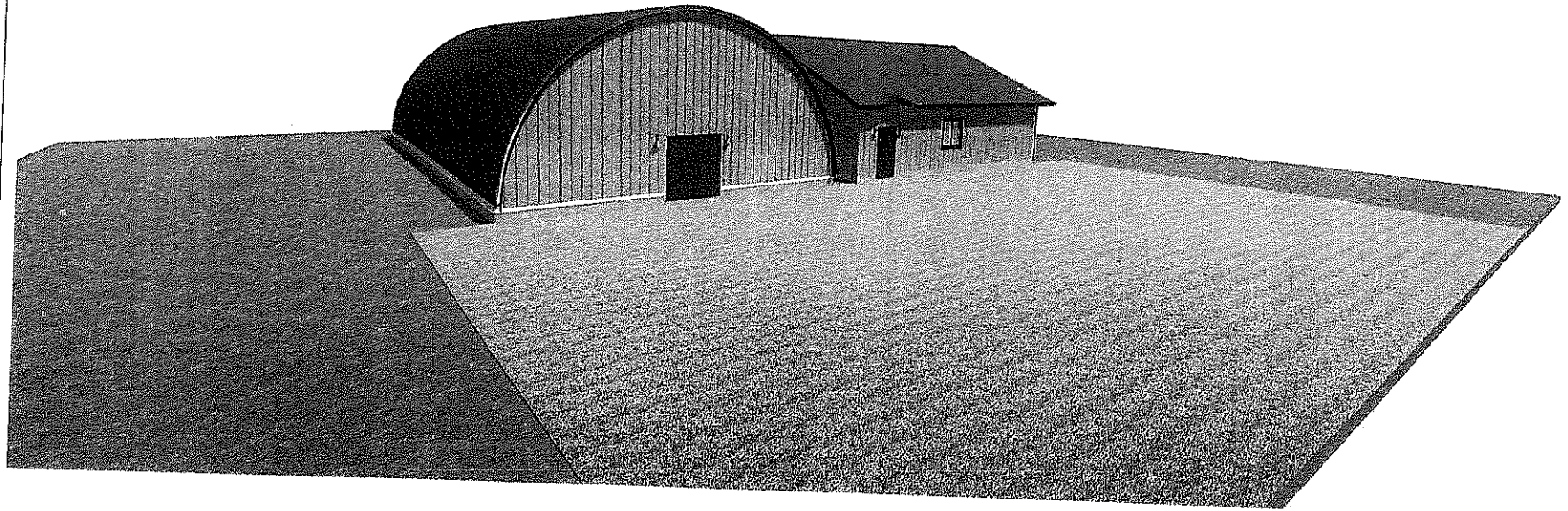
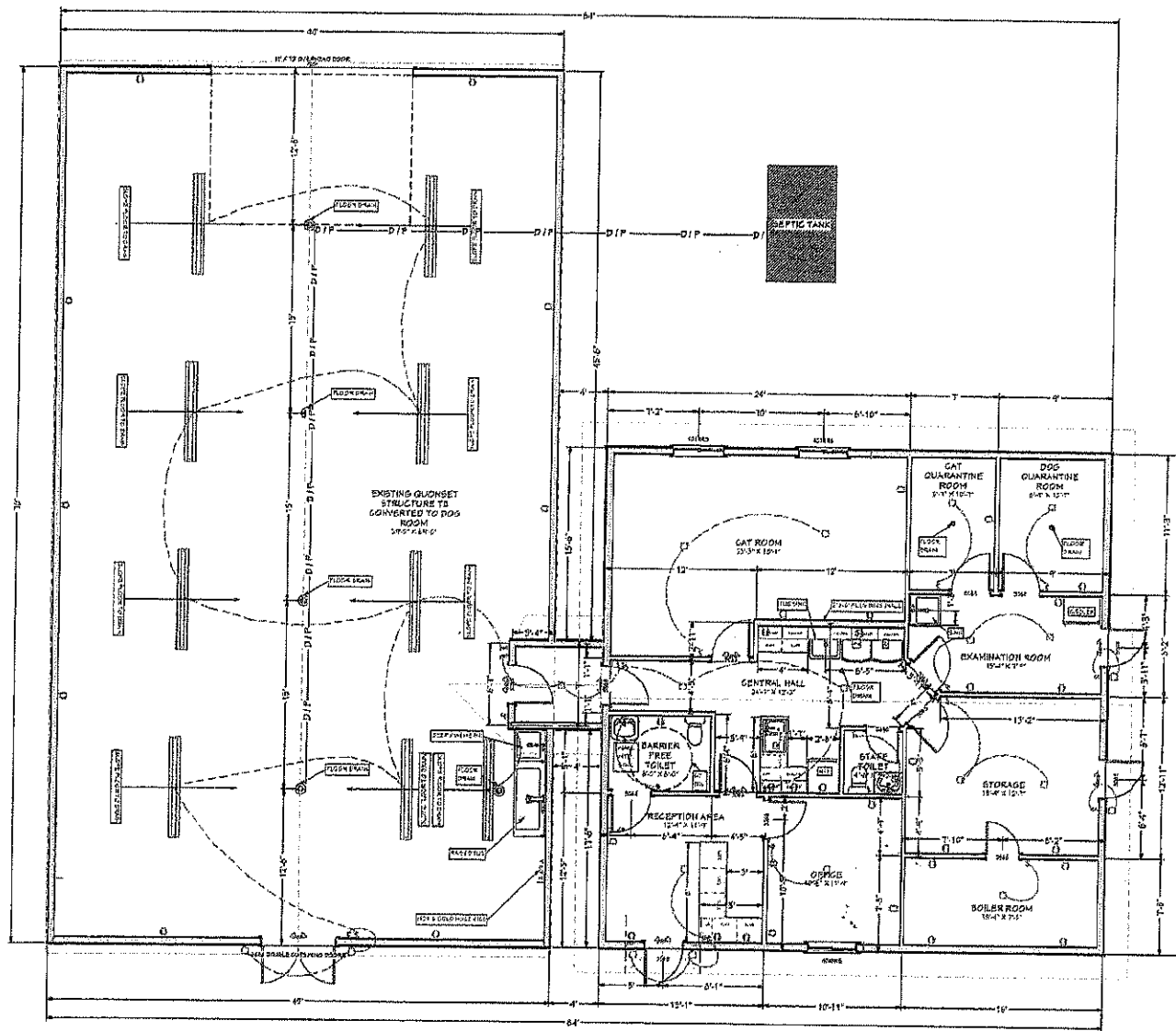




 bedco drafting & design 4124-44 Avenue S.E. 2nd. Alberta, T2B 4T6-5754.. bedco@bedco.net	PREPARED BY ST. PAUL ANIMAL SHELTER CONCEPT VIEW	DATE PREPARED 17-18 OCT 2017 BY	SHEET NO. 1
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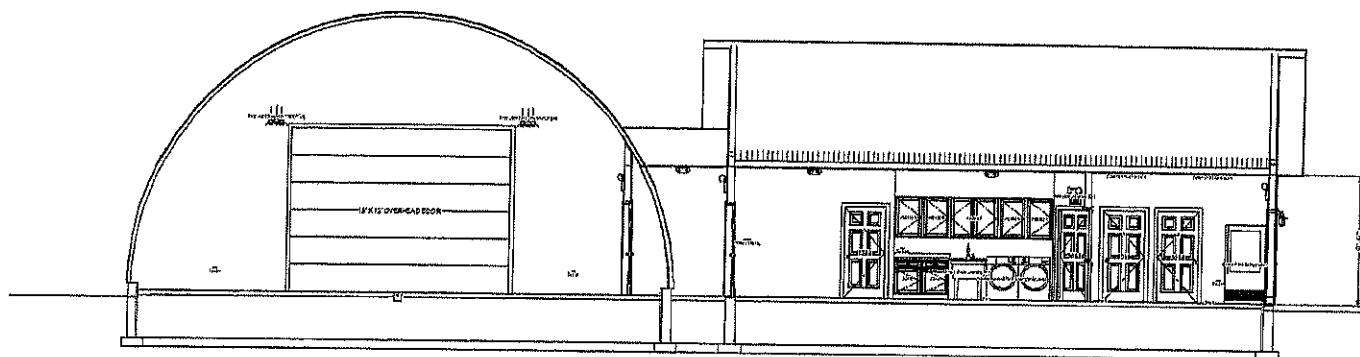
FLOOR PLAN
1/4" = 1'-0"

LIVING AREA
1037 SQ FT



ST. PAUL ANIMAL
SHELTER
FLOOR PLAN

17-18
OCT 2017
AS SHOWN



CROSS-SECTION A-A
1/4" = 1'-0"

MAIN ROOF SYSTEM:

- NOMINAL 18 ga. COLORED RIBBED DURACLOD ROOF CLADDING, EXPOSED FASTENER, APPLY AS PER MANUF. SPECS.
- 1/2" C. SPRUCE PLYWOOD SHEATHING CW 1/4" CLIPS; NAIL VS 2-84mm/2" NAILS @ 6"12"
- 15 ASPHALT FELT (ENTIRE ROOF)
- ENGINEERED, 8/12 PITCH MAIN ROOF ENGINEERED ROOF TRUSS SYSTEM @ 24" O/C, CAV HIGH REEL, 24" OVERHANG, 2" X 8" FASCIA

24" OVERHANG, BISTALL BRACE & BLOCK AS PER MANUFACTURER SPECS.

(MANUFACTURER TO SUPPLY TRUSS SYSTEM LAYOUT, BLOCKING & BRACING DETAILS & REQUIREMENTS AND ENGINEER SEALED SHOP DRAWINGS A MINIMUM OF 5 WORKING DAYS PRIOR TO SCHEDULED DELIVERY)

- PREFINISHED, COLORED, PERFORATED, ALUMINUM SOFFIT & FASCIA SYSTEM.
- R 40 BLOWN-IN CELLULOSE, ATTIC INSULATION.
- 6 mil COBB POLY VAPOR BARRIER
- CEILING DRYWALL 5/8" AQUA BOARD, TAPED & PAINTED

EXTERIOR WALL SYSTEM:

- NOMINAL 28 ga. COLORED RIBBED DURACLOD WALL CLADDING, EXPOSED FASTENER, APPLY VERTICALLY AS PER MANUF. SPECS.
- CERTIFIED AIR BARRIER APPLIED AS PER MANUF. SPECS
- 3/8" OSB SHEATHING NAIL VS 2-84mm/2" NAILS @ 6"12", SOLID BLOCKING AT ALL BREATHING EDGES
- 2" X 4" @ 16" SPP STRAPPING @ 24" O/C W/ FILLED W/ 1 1/2" XPS INSULATION
- 2" X 6" @ 24" SPP STRAPPING @ 24" O/C
- 42 BTR FIVE MUDDILL
- R 20 BATT INSULATION
- 6 mil COBB POLY VAPOR BARRIER IF BATT INSULATED
- INTERIOR DRYWALL 1/2" AQUA BOARD DRYWALL

INTERIOR WALL SYSTEM:

- 1/2" AQUA BOARD DRYWALL
- 2" X 4" @ 24" SPP STRAPPING @ 16" O/C
- 42 BTR PWF LOWER PLATE
- 1/2" AQUA BOARD DRYWALL
- NOTE: KENNEL ROOMS & AND ANIMAL ROOM WALLS TO BE LINED WITH 3/8" OSB BACKER AND 1/2" PLASTIC BEAD BOARD FINISH.
- NOTE: ALL INTERIOR WALLS TO SIT ON 8" HIGH CONCRETE CURBS

FOUNDATION SYSTEM:

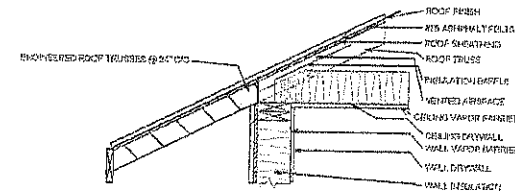
A FROST WALL STRIP FOOTING FOUNDATION MAY BE UTILIZED FOR THIS BUILDING. NOTE BASE OF FOOTING MUST BE AT LEAST 48" BELOW GRADE FOR FROST PROTECTION.

- TYPICAL REINFORCED CONCRETE FOOTING:
- 8" THICK X 20" WIDE 25 MPA CONCRETE
- MAX 10mm LATERALS @ 18" O/C & 3-10mm LONGITUDINALS CONTINUOUS

- TYPICAL REINFORCED CONCRETE FROST WALL:
- 8" X 48" CONCRETE FROST WALL, 25 MPA CONCRETE
- MAX 2-10mm T & B @ CENTER & 10mm VERTICALS @ 18" O/C

- TYPICAL REINFORCED CONCRETE FLOORING SLAB:
- 4" THICK REINFORCED CONCRETE SLAB, 25 MPA, SURFACE HARDENED AND SEALED.

- 10mm EACH WAY @ 18" O/C
- 6mil COBB POLY VAPOR BARRIER
- 8" COMPACTED WELL GRADED SAND BASE COMPACT TO 100% PROCTOR
- COMPACTED CLEAN CLAY OR CLAY TILL FILL IF REQUIRED COMPACTED TO 100% PROCTOR
- SAWCUT SLAB @ 18" O/C MAXIMUM
- INSTALL REINFORCE, FOUR & CURE AS PER NBC-410 2014 SPECS.



RAFTER TO WALL CONNECTION DETAIL
NOT TO SCALE

 4755-46 avenue, St Paul, Alberta, T3A 1P5-5126, Canada (584-1111)	ST. PAUL ANIMAL SHELTER CROSS SECTION	17-18 OCT 2017 AS SHOWN	6
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SPECIFICATIONS

GENERAL

All materials and construction procedures shall be in compliance with the latest editions of the following:

- National Building Code
- CSA Standards, in particular:
 - A23.1 Concrete Materials and Methods of Concrete Construction
 - A23.2 Methods of Test for Concrete
 - A23.3 Design of Concrete Structures for Buildings
- A5 Portland Cement (Part of A3000 Cementitious Materials Compendium)
- G30.18 Billet - Steel Bars for Concrete Reinforcement
- Owners Specifications

CONCRETE REINFORCEMENT

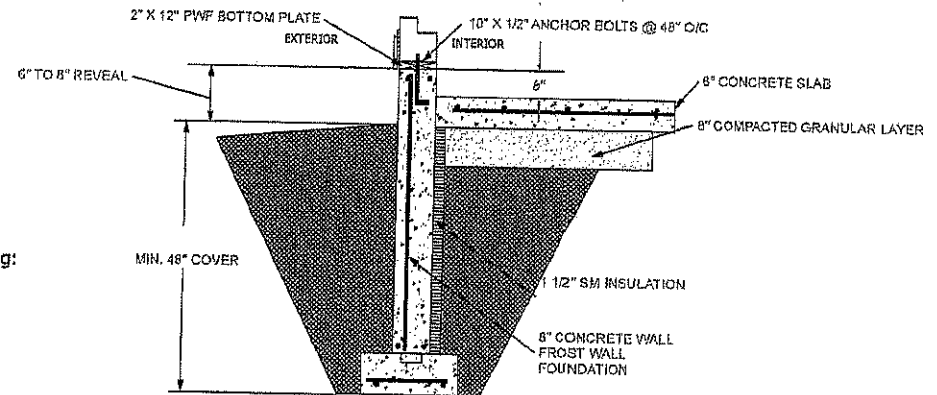
1. Deformed bars of new material conforming to G30.18, Grade 400 MPa (60 ksi)
2. Fabricate and place reinforcing in accordance with CSA Standard A23.1 with the following concrete cover:
 - Top/Bottom of Foundation Walls 75 mm (3")
 - Sides of Foundation Walls 60 mm 9 2 1/2")
 - Sides of Footings 75 mm (3")
3. Extend all reinforcing around corners and use corner bars.
4. Ensure reinforcement is clean and free of oil, mud, most rust and mill scale.

CAST-IN-PLACE CONCRETE

1. All concrete to be supplied and placed in accordance with CSA Standard A23.1.
2. All concrete to attain a minimum 28 day compressive strength of 25 MPa using NORMAL PORTLAND cement type (10). Maximum aggregate 19 mm (3/4"), slump 80 mm + or - 20 mm (3 1/4" = or - 3/4"), maximum water cement ratio 0.45.
3. Interior slab on grade: 25 MPa using normal portland cement (type 10). Type (50) for wash slab.
4. Air content for exposed concrete shall conform to A23.1 Section 14.
5. Patch form tie holes in all exposed concrete.

EXCAVATION AND FILL - SITE PREPARATION

1. Vegetation and topsoil within all development areas should be stripped and removed from the site. Following this removal the areas should be scarified to a minimum depth of 150 mm (6") and moisture conditioned to within 2 percent above optimum moisture content. Following moisture conditioning, the stripped areas should be proof rolled to identify loosened or softened areas. Any soft areas should be over-excavated, backfilled and compacted to 98% standard proctor maximum dry density (SPD).
2. Should fill be required to raise subgrade elevation, it should be compacted to 98% SPD in lifts not greater than 150 mm (6") in compacted thickness.



FOUNDATION WALL REINFORCING DETAIL

CONCRETE REINFORCING SCHEDULE					
SYMBOL	WIDTH	HEIGHT	VERTICAL	REINFORCING	
				HORIZ. LATERALS	HORIZ. LONGITUDINALS
FOOTING	20"	8"	-	10mm @ 16" O/C	3-10mm BARS CONTINUOUS
WALLS**	8"	48"	-	10mm VERT @ 18" O/C	2-10mm BARS T & B & CENTER
FLOOR *	-	6"	-	10 mm @ 16" O/C	

** REFER TO ICF MANUFACTURER FOR REINFORCING SPECIFICATIONS, THEY WILL SUPERCEED THESE SPECIFICATIONS

SLAB BASE PREPARATION

1. Measures should be taken to ensure water is not allowed to pond on the subgrade during or after construction, as uncontrolled detrimental swelling may result. Similarly it is critical to ensure that exposed subgrade is not permitted to dry out during construction, prior to floor slab placement.
2. Imported low to medium plastic cohesive general engineered fill, such as the site clay till, may be used as Interior subgrade fill provided that the fill is placed and compacted prior to foundation excavations.

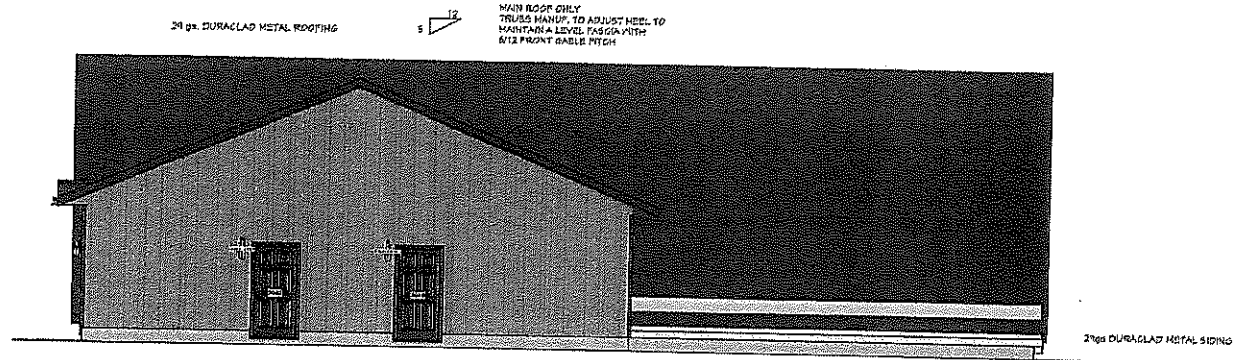
This material should be moisture conditioned to between 0 and 2 percent of standard Proctor maximum dry density. Cohesive engineered fill should be compacted with relatively large, sheepfoot compaction equipment.

3. Slab - on - grade floors should rest on at least 150 mm (6") of compacted gravel screenings or fill sand.

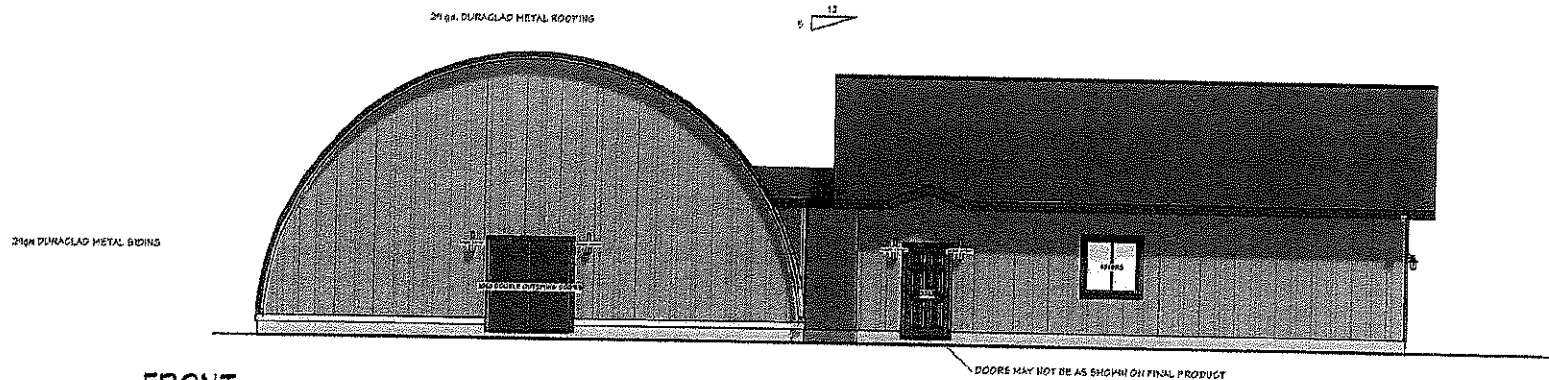
This granular bedding course should be compacted to 100% SPD in lifts not exceeding 150 mm (6") in compacted thickness. Granular general engineered fill is best compacted with vibratory smooth drum compaction equipment.

4. Provide 6 mil polyethylene vapor barrier immediately below the floor slab, unless otherwise directed.
5. Provide positive site drainage away from the building.

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	CROSS SECTION	OCT 2017	



**RIGHT SIDE
ELEVATION**
1/4" = 1'-0"



**FRONT
ELEVATION**
1/4" = 1'-0"

 bedco drafting & design 4114-Ak Avenue, St. Paul, Alaska 759-445-5254...bedcodealaska.net	ST. PAUL ANIMAL SHELTER ELEVATIONS		17-18	2
			OCT 2017	
			AS SHOWN	