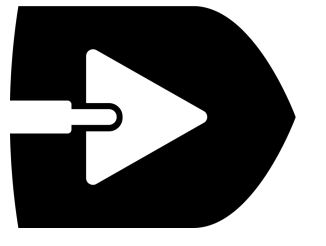


FLOOR PLAN
SCALE: 1/4" = 1'-0"



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KENAI MAGIC LODGE SEPTIC SYSTEM DESIGN
T5N R8W SEC 7 SEWARD, KN GOVT LOT 14 THE NORTH 110 FT THEREOF
38120 GREAT LAND STREET

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FLOOR PLAN &
WALL DETAILS

REVIEW	DATE
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STRUCTURAL GENERAL NOTES

GOVERNING CODE:
THE DESIGN AND CONSTRUCTION OF THIS MODULE IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE STATE OF ALASKA AND MAT-SU BOROUGH, UNDERSTOOD TO BE THE AUTHORITY HAVING JURISDICTION.

COORDINATION:
THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT, AND COMPATIBILITY TO THE EXISTING SITE. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER IMMEDIATELY. OMISSIONS FROM THE DRAWINGS AND SPECIFICATIONS OR THE MIS-DESCRIPTION OF THE WORK WHICH IS MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATION, OR WHICH IS CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK AS IF FULLY AND COMPLETELY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

DESIGN CRITERIA AND LOADS:
OCCUPANCY:
BUILDING RISK CATEGORY PER 2012 IBC TABLE 1604.5 = II
(OCCUPANT LOAD < 250)

SNOW LOAD:
SNOW LOAD IMPORTANCE FACTOR: IE = 1.0
GROUND SNOW LOAD, (PSF): F_G = 50 (ASCE 7-22 VALUES)
FLAT ROOF SNOW LOAD, (PSF): F_F = 50
THERMAL FACTOR: C_T = 1.0

DESIGN LIVE LOAD:
LL = 60 PSF

WIND DESIGN:
DESIGN WIND SPEED: 126 MPH
INTERNAL PRESSURE COEFFICIENT: C_{PI} = +/- 0.18
WIND ANALYSIS PROCEDURE USED: ENVELOPE

SEISMIC DESIGN:
SEISMIC DESIGN CATEGORY: SDG=E
SEISMIC DESIGN VALUE AT 0.25 SA: S_{D5} = 1.062
SEISMIC DESIGN VALUE AT 1.05 SA: S_{D5} = 0.788
SEISMIC ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE (ELF)

CONCRETE:
REINFORCED CONCRETE WORK IS TO BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) EDITIONS OF ACI 301 (LATEST EDITION), "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

MIXING, TRANSPORTING, PLACING AND TESTING OF CONCRETE IS TO BE DONE IN ACCORDANCE WITH ACI 301. PRIOR TO CONCRETE PLACEMENT, CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F_C) OF 4000 PSI.

THE SLUMP AT POINT OF PLACEMENT IS NOT TO EXCEED 4"+/-1" AND THE WATER/ CEMENT RATIO IS NOT TO EXCEED 0.45.

CONCRETE SHALL BE PROPERLY VIBRATED DURING PLACEMENT.

REINFORCING STEEL
CONTINUOUS REINFORCING BARS TO BE TURNED AND LAPPED AT CORNERS AND INTERSECTIONS

REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/ OR INTERSECTIONS BY PROVIDING PROPER LAP LENGTHS AND/OR CORNER BARS. CONCRETE REINFORCING:

REINFORCING STEEL SHALL COMPLY WITH: CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD

PRACTICE" AND AMERICAN CONCRETE INSTITUTE, ACI 315 (OR SP-66) "DETAILING MANUAL".

REINFORCING STEEL SHALL BE DEFORMED BARS AND SHALL CONFORM TO ASTM A615, GRADE 60, WITH A DESIGN YIELD STRENGTH OF 60,000 PSI, EXCEPT AS NOTED BELOW:

REINFORCING SHALL BE DETAILED, FABRICATED, BOLSTERED, AND SUPPORTED PER ACI 315.

REINFORCING STEEL SHALL BE FREE OF LOOSE FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND.

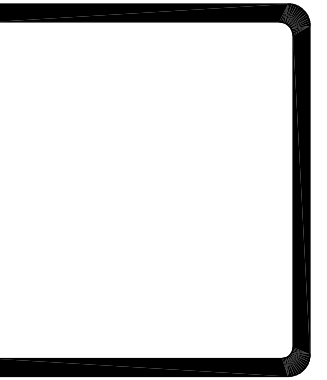
REINFORCING STEEL IN CONCRETE SHALL BE SECURELY ANCHORED AND TIED IN PLACE PRIOR TO PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS WHERE NECESSARY DURING CONSTRUCTION.

UNLESS SHOWN OTHERWISE ON THE DRAWINGS, CONTRACTOR SHALL PROVIDE CONCRETE COVER TO REINFORCEMENT IN ACCORDANCE WITH ACI 301.

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



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KENAI MAGIC LODGE SEPTIC SYSTEM DESIGN
T5N R8W SEC 7 SEWARD, KN GOVT LOT 14 THE NORTH 110 FT THEREOF
38120 GREAT LAND STREET

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FOUNDATION

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SPW
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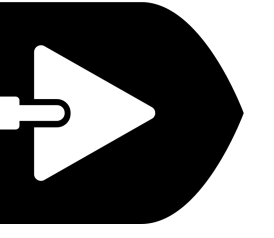
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PLAN NOTES

1. HEADERS NOT SPECIFIED ON PLAN TO BE (2) 2x8 MINIMUM.
HEADER SUPPORTS TO BE (2) 2x TRIMMERS MINIMUM.
2. FLOOR SHEATHING TO BE GLUED AND NAILED TO FRAMING WITH 0.131"x2-1/2" NAILS @ 6"OC AT PANEL EDGES AND @ 12"OC FIELD. UNO LAY SHEATHING WITH FACE GRAIN LONG DIRECTION) PERPENDICULAR TO SUPPORTS AND STAGGER PANEL END JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS AND EDGES.
3. BEAMS ARE FLUSH FRAMED WITH JOISTS UNO, OR ON PLANS AS "DB" INDICATING THAT DROPPED BEAM FRAMING IS REQUIRED.
4. PROVIDE DOUBLE JOISTS AROUND ALL FLOOT AND ROOF OPENING GREATER THAN 24" ON ONE SIDE.

FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"



KENAI MAGIC LODGE SEPTIC SYSTEM DESIGN

T5N R8W SEC 7 SEWARD, KN GOVT LOT 14 THE NORTH 110 FT THEREOF
38120 GREAT LAND STREET

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FLOOR FRAMING

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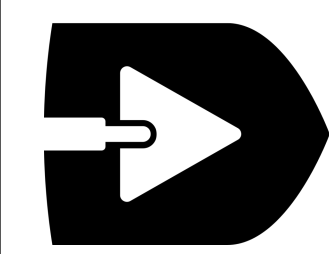
SHEAR WALL SCHEDULE									
0.131"x2-1/2" NAILS IN HEM-FIR									
WALL TYPE	WALL SHEATHING APA-RATED (1, 2, 12, 13)	NAIL SIZE & SPACING AT PANEL EDGES (4, 5)	BLOCKING & STUD SIZE AT PANEL EDGES (3, 6, 12)	RIM JOIST OR BLOCKING CONN TO TOP PLATE BELOW (1, 8)	2x PLATE ATTACHMENT NAILING TO WOOD RIM OR BLOCKING BELOW	SILL PLATE ATTACHMENT ANCHOR BOLT TO PLATE BELOW (10)		SILL PLATE AT FOUNDATION (13)	SHEAR CAPACITY (PLF)
ALL EXTERIOR	15/32"	0.131"x2-1/2" @ 6"OC	2x	CLIP @ 16"OC	0.148"x3-1/4" @ 8"OC	5/8" @ 48"OC		2x	250

NOTES:

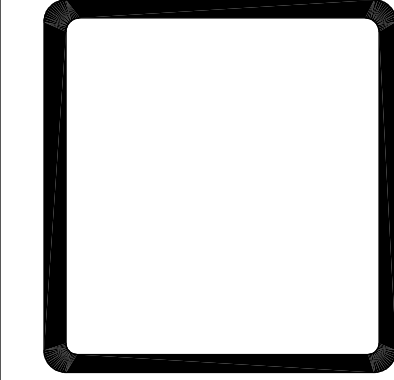
- INSTALL PANEL EITHER HORIZONTALLY OR VERTICALLY.
- WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.
- BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- PROVIDE SHEAR WALL SHEARING AND NAILING FOR THE ENTIRE LENGTH OF THE WALL INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALL ARE DESIGNATED BY WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLD-DOWN REQUIREMENTS PER PLANS.
- SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD-DOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLD-DOWN POSTS. ADDITIONAL INFORMATION PER HOLD-DOWN DETAILS.
- INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.131"x2-1/2" NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.131"x2-1/2" NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.
- BASED ON 0.131"x1-1/2" NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"x2-1/2" NAILS WHERE INSTALLED OVER SHEATHING.
- FRAMING CLIPS: A35 OR LTP5
- WHERE BOTTOM PLATE ATTACHMENT SPECIFIES (2) ROWS OF NAILS OR SCREWS, PROVIDE DOUBLE JOIST, RIM JOIST OR EQUAL BELOW. STAGGER NAILS/ SCREWS IN ROWS 1-1/2" APART MINIMUM.
- ANCHOR BOLTS SHALL BE PROVIDED WITH HOT DIPPED GALVANIZED STEEL PLATE WASHERS 0.225"x3" MIN. PLATE WASHER TO EXTEND WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(2) WITH SHEATHING. INCREASE PLATE WASHER AS REQUIRED. EMBED ANCHOR BOLTS T MINIMUM INTO THE CONCRETE.
- 7/16" APA-RATED SHEATHING (05B) MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED THAT ALL STUDS ARE SPACED AT 16"OC MAXIMUM.
- (2) 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING
- NAIL STUDS TO 3x SILL PLATES WITH (4) 0.131"x2-1/2" TOENAILS.
- EDGE NAILS SHALL BE LOCATED 3/8" FROM PANEL EDGES.

SHEAR WALL PLAN
SCALE: 1/4" = 1'-0"

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KENAI MAGIC LODGE SEPTIC SYSTEM DESIGN
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38120 GREAT LAND STREET

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WALL FRAMING

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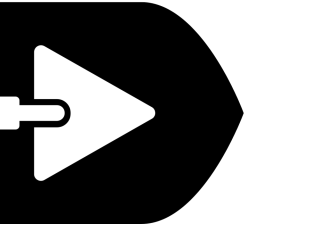
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PLAN NOTES

1. HEADERS NOT SPECIFIED ON PLAN TO BE 4x12 DF NO. 2 MINIMUM. HEADER SUPPORTS TO BE (2) 2x TRIMMERS MINIMUM.
2. ROOF SHEATHING TO BE GLUED AND NAILED TO FRAMING WITH 0.131"x2-1/2" NAILS @ 6"OC AT PANEL EDGES AND @ 12"OC FIELD. UNO. LAY SHEATHING WITH FACE GRAIN (LONG DIRECTION) PERPENDICULAR TO SUPPORTS AND STAGGER PANEL END JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS AND EDGES.
3. BEAMS ARE FLUSH FRAMED WITH JOISTS UNO. OR ON PLANS AS "DB" INDICATING THAT DROPPED BEAM FRAMING IS REQUIRED.
4. PROVIDE SIMPSON H2.5A TIES AT ALL ROOF JOISTS, TRUSSES TYPICAL
5. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CRITERIA:
 - A. ROOF SYSTEM TO BE BIDDER-DESIGNED. ROOF PLAN SHOWN IS A SUGGESTED LAYOUT. CHANGES MUST BE SUBMITTED TO THE DESIGNER WITH BEARING POINTS AND REACTIONS TO STRUCTURE.
 - B. TRUSS LAYOUT IS APPROXIMATE. TRUSS SUPPLIER IS RESPONSIBLE FOR FINAL TRUSS LAYOUT AND CONFIGURATION. NOTIFY DESIGNER OF REVISIONS TO PLAN.
 - C. STANDARD DEAD AND LIVE LOADS TO BE PER GENERAL NOTES.
 - D. ROOF TRUSSES TO BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER LOADS.
 - E. PROVIDE SIMPSON H1 OR H2.5A HURRICANE TIES AT ALL ROOF TRUSSES AND ROOF JOISTS, TYP
 - F. TRUSS HANGARS SHALL BE SUPPLIED AND DESIGNED FOR THE TRUSS SUPPLIER.
 - G. TRUSS MANUFACTURER TO DESIGN BEARING AT TOP PLATES FOR COMPRESSION.

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



KENAI MAGIC LODGE SEPTIC SYSTEM DESIGN

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ROOF FRAMING

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