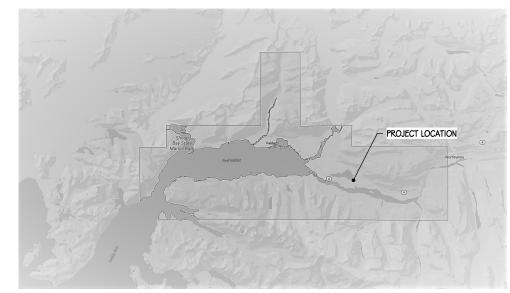
GITW Storage Garage Valdez, Alaska **Issued For Construction** November 12, 2017 221.96' W APPROX EXISTING 30' EXISTING COMPACTED 10' SIDE SETBACK





PROJECT INFORMATION

LEGAL DESCRIPTION: ROBE LAKE WILDERNESS ESTATES, BLOCK 3, LOT

GEEKS IN THE WOODS, LLC 2200 WESTERN AVENUE, SUITE 200 SEATTLE, WA 98121

PROJECT DESCRIPTION: PRIVATE RESIDENTIAL I-STORY SORAGE GARAGE WITH ATTIC

COMMERCIAL RESIDENTIAL ZONING: MINIMUM LOT SIZE: 11,000 SF LOT SIZE: 45,538 SF MINIMUM LOT WIDTH: 70 FT ALLOWABLE LOT COVERAGE: 50% LOT COVERAGE: 2.240 SQ FT NEW COVERAGE PERCENTAGE: 4.9% MAX PRINCIPAL HEIGHT ALLOWED: 35 FT

22 FT PRINCIPAL HEIGHT: LOT SETBACKS: PROVIDED: 71 FT ESTIMATED 20 FT 59 FT ESTIMATED 10 FT

REAR 92 FT ESTIMATED 15 FT DRIVEWAY SURFACE: GRAVEL LANDSCAPING REQUIRED: NONE

OCCUPANCY: 52 - LOW HAZAROUS STORAGE CONSTRUCTION TYPE: NUMBER OF STORIES PERMITTED PREMITTED HEIGHT: BUILDING HEIGHT: 22 FT FLOOR AREA PERMITTED PER FLOOR: 13,500 SF FLOOR AREA PROVIDED PER FLOOR: 2,240 SF FLOOR AREA PROVIDED - ATTIC 800 SF VERT. SEPARATION WALLS REQUIRED: VERT. SEPARATION WALLS PROVIDED: 12 GA STEEL HORIZ. SEPARATION FLOORS REQUIRED: I-HR HORIZ. SEPARATION FLOORS PROVIDED: IBC TABLE 720.1(3) ITEM 21-1.1

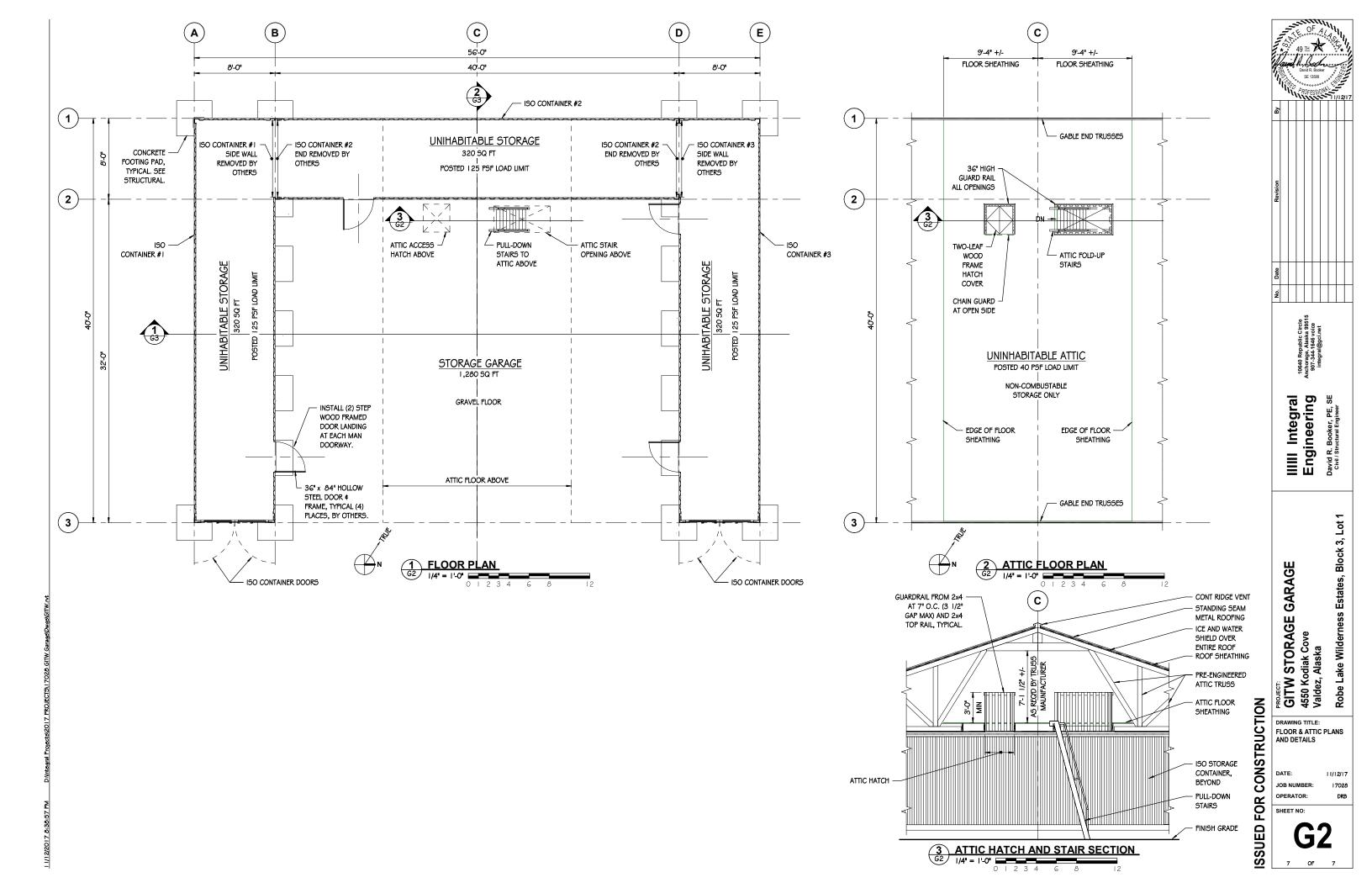
IIIIII Integral Engineering

PROJECT:
GITW STORAGE GARAGE
4550 Kodiak Cove
Valdez, Alaska

VICINITY MAP, SITE PLAN, PROJECT INFORMATION AND GENERAL NOTES

SHEET NO:

CONSTRUCTION FOR ISSUED





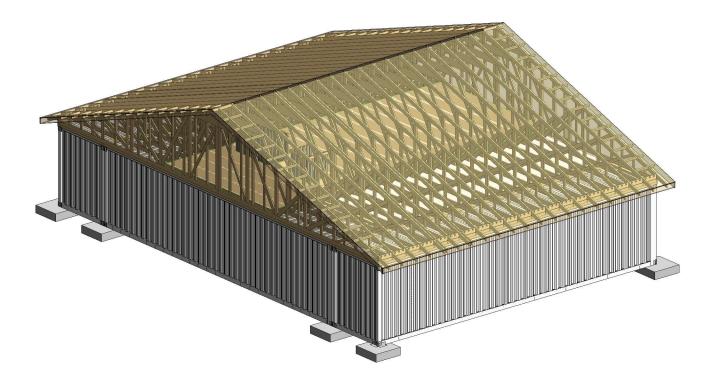
ISSUED FOR CONSTRUCTION

DATE: 11/12/17
JOB NUMBER: 17028
OPERATOR: DRB

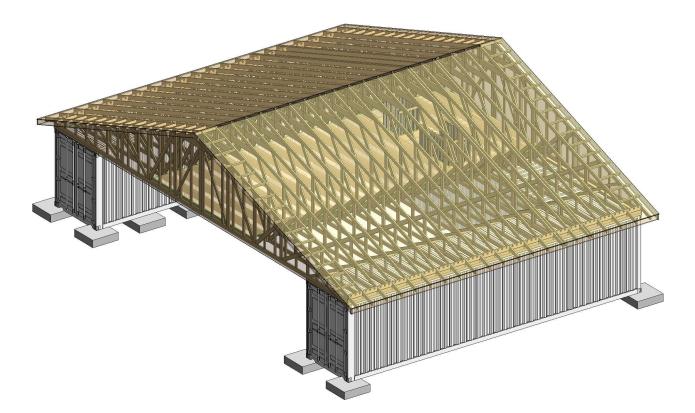
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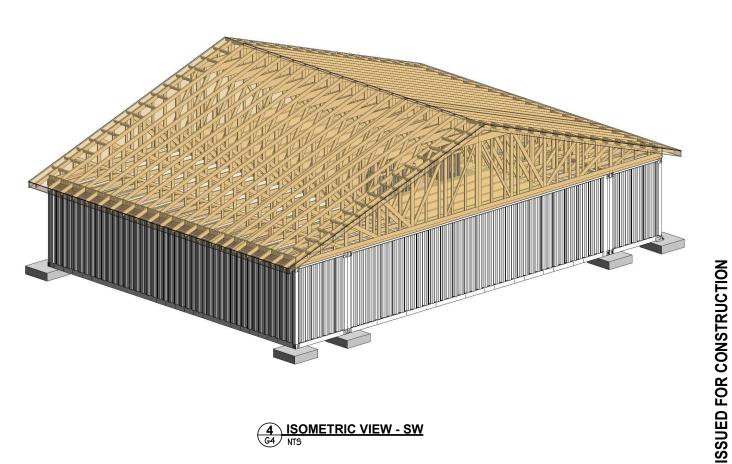
G3





2 ISOMETRIC VIEW - NW
G4 NT5





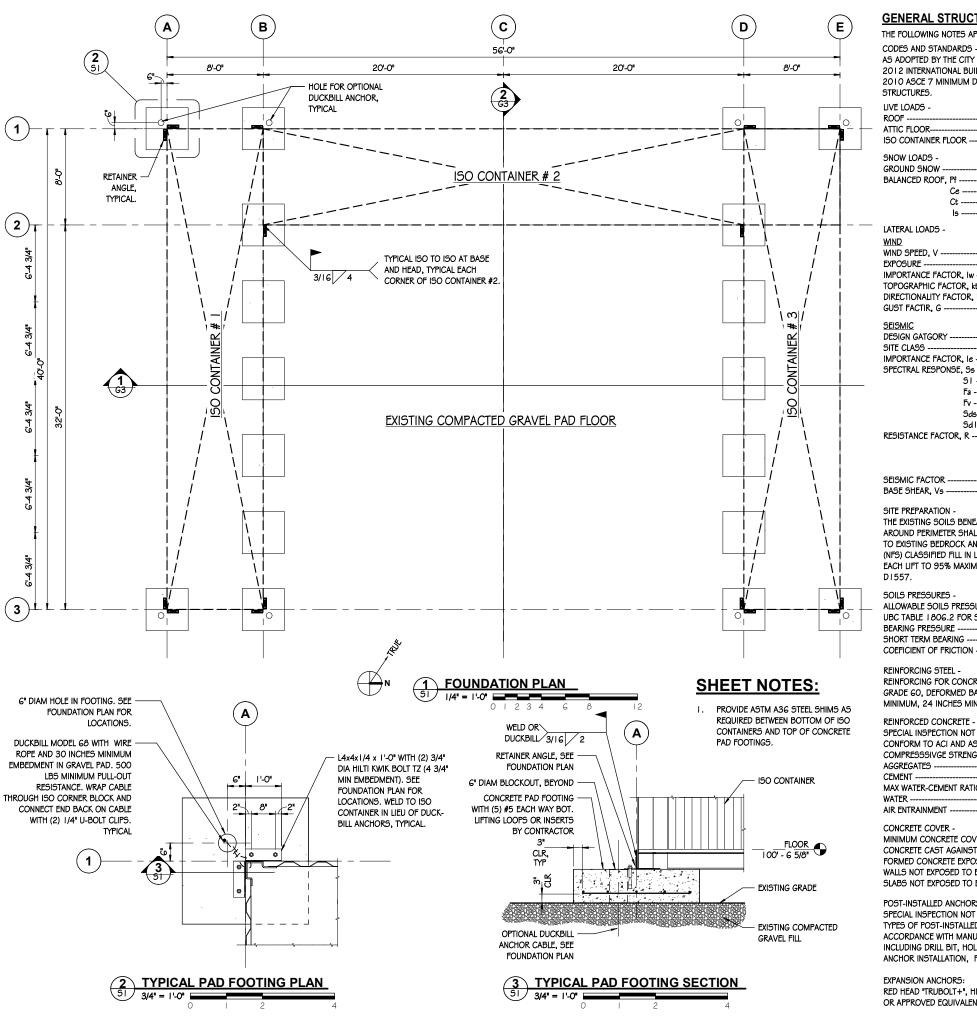
3 ISOMETRIC VIEW - NE

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Engineering
David R. Booker, PE, SE
CMI / Structural Engineer

Robe Lake Wilderness Estates, Block 3, Lot 1 PROJECT:
GITW STORAGE GARAGE
4550 Kodiak Cove
Valdez, Alaska

DRAWING TITLE:
BUILDING ISOMETRICS

G4



GENERAL STRUCTURAL NOTES:

THE FOLLOWING NOTES APPLY UNLESS SHOWN OTHERWISE:

CODES AND STANDARDS -

AS ADOPTED BY THE CITY OF VALDEZ:

2012 INTERNATIONAL BUILDING CODE (IBC)

2010 ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER

ATTIC FLOOR-40 PSF POSTED LOAD LIMIT ISO CONTAINER FLOOR 125 PSF LIGHT STORAGE

SNOW LOADS -

160 PSF BALANCED ROOF, Pf 123 PSF, MIN 1.00 1.00 1.00

140 MPH, 3-SEC GUST C

IMPORTANCE FACTOR, Iw -1.00 TOPOGRAPHIC FACTOR, kt. 1.00 DIRECTIONALITY FACTOR, kd -0.85 GUST FACTIR, G 0.85

DESIGN GATGORY

D IMPORTANCE FACTOR, le -1.00 SPECTRAL RESPONSE, Se 1.50 a 0.78 1.00 1.78 1.00 g

0.78 g 6.5 ASCE 7-10, RESISTANCE FACTOR, R TABLE 1617.6

LIGHT FRAMING BEARING / SHEAR WALL

0.15 D, D=DL+20% SNOW 20 KIPS, LRFD

SITE PREPARATION -

THE EXISTING SOILS BENEATH THE BUILDING FOOT PRINT PLUS 5 FEET AROUND PERIMETER SHALL BE EXCAVATED OF ALL PEAT AND ORGANICS TO EXISTING BEDROCK AND BACKFILLED WITH NON-FROST SUSCEPTIBLE (NFS) CLASSIFIED FILL IN LIFTS NOT TO EXCEED 8 INCHES. COMPACT EACH LIFT TO 95% MAXIMUM DENSITY TO FINAL GRADE PER ASTM

SOILS PRESSURES -

ALLOWABLE SOILS PRESSURES IN ACCORDANCE WITH UBC TABLE 1806.2 FOR SANDY GRAVEL SOILS: BEARING PRESSURE -- 3,000 PSF SHORT TERM BEARING 4.000 PSF

REINFORCING STEEL -

REINFORCING FOR CONCRETE CONSTRUCTION SHALL BE ASTM AG I 5, GRADE 60, DEFORMED BARS. LAP ALL REINFORCING 55 BAR DIAMETERS MINIMUM, 24 INCHES MINIMUM AT SPLICES.

-0.35

REINFORCED CONCRETE -

SPECIAL INSPECTION NOT REQUIRED. CONCRETE MATERIALS SHALL CONFORM TO ACI AND ASTM STANDARDS AS FOLLOWS: COMPRESSSIVGE STRENGH $F_c = 4,000 \text{ PSI MIN AT 28 DAYS}$ ASTM C33, 3/4" MAX., NORMAL WT. ASTM C150, TYPE I OR III. MAX WATER-CEMENT RATIO 0.45 BY WEIGHT. CLEAR POTABLE. ASTM C260, 4% TO 7% BY VOL. AIR ENTRAINMENT

MINIMUM CONCRETE COVER TO REINFORCING AS FOLLOWS: CONCRETE CAST AGAINST EARTH 3 INCHES FORMED CONCRETE EXPOSED TO WEATHER -- 2 INCHES WALLS NOT EXPOSED TO EARTH OR WEATHER ----- 1-1/2 INCHES SLABS NOT EXPOSED TO EARTH OR WEATHER ----3/4 INCHES

POST-INSTALLED ANCHORS -

SPECIAL INSPECTION NOT REQUIRED. ICC REPORTS REQUIRED FOR ALL TYPES OF POST-INSTALLED ANCHORS. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN REQUIREMENTS INCLUDING DRILL BIT. HOLE DIAMETER AND DEPTH, HOLE CLEANING. ANCHOR INSTALLATION, FASTENER ATTACHMENT, AND TORQUE.

RED HEAD "TRUBOLT+", HILTI "KWIK-BOLT TZ", SIMPSON "STRONG BOLT", OR APPROVED EQUIVALENT.

STRUCTURAL STEEL -

ALL STRUCTURAL STEEL SHALL CONFORM TO AISC AND ASTM SPECIFICATIONS AS FOLLOWS:

ASTM A36 FY = 36 KSI ANGLES . BOLTS ASTM A307A, GALVANIZED NUTS -ASTM A563A, GALVANIZED WASHERS ASTM F844, GALVANIZED SSPC PAINT 25, IRON ALKLYD SHOP PAINT AFTER FABRICATION

STRUCTURAL STEEL WELDING -

SPECIAL STRUCTURAL INSPECTION REQUIRED, SEE NOTES BELOW. ALL STRUCTURAL STEEL WELDS SHALL BE PRE QUALIFIED AND CONFORM TO AISC AND AWS SPECIFICATIONS AS FOLLOWS:

WELDERS CERTIFIED FOR ROD AND POSITION **ELECTRODES** E70XX; HEAVY COATED, LOW HYDROGEN MINIMUM WELD CONTINUOUS FILLET PER AISC TABLE

CONTRACTOR SHALL SUBMIT WELDER QUALIFICATIONS AND PROCEDURE QUALIFICATIONS. WHERE NOT SHOWN, USE MIN. WELD SIZE PER AISC AND AWS.

WELDS EXPOSED IN FINISHED WORK SHALL BE FREE OF SLAG, SPATTER, AND GOUGES. SHARP EDGES SHALL BE GROUND SMOOTH. BACK BARS AND RUN-OFF TABS SHALL BE REMOVED.

STRUCTURAL LUMBER -

ALL STRUCTURAL LUMBER SHALL BE HEM FIR NO. 2 OR BETTER FOR 2X4 AND LARGER AND CONSTRUCTION GRADE FOR 2X3 AND SMALLER. USE PRESSURE TREATED LUMBER AT ALL WOOD INSTALLED WITHIN I INCH OF CONCRETE.

TYPICAL FRAMING NOTES -

ALL WOOD FRAMING SHALL BE IN ACCORDANCE WITH IBC SECTION 2308. MINIMUM CONNECTIONS AND FASTENERS SHALL COMPLY WITH IBC TABLE 2304.9.1.

METAL TIMBER CONNECTORS -

STEEL CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUIVALENT.

PRE-ENGINEERED WOOD ROOF TRUSES -

ALL PRE-ENGINEERED ROOF TRUSES SHALL DESIGNED TO MEET DESIGN CRITERIA SHOWN IN THESE DRAWINGS, 2012 IBC, AND ASCE 7-10 LOAD LOAD COMBINATIONS. ROOF TRUSSES SHALL BE MANUFACTURERED IN CONFORMANCE WITH TRUSS PLATE INSTITUTE ANSI / TPI DS8. TRUSS MANUFACTURER SHALL PROVIDE ALL INTERNAL BRIDGING AND BRACING AS SHOWN IN TRUSS FABRICATION DRAWINGS.

SHEATHING -

ALL SHEATHING SHALL CONFORM TO AP SPECIFICATIONS AND THICKNESS AS FOLLOWS:

5/8-INCH T1-11 SIDING, 32/16 APA DOC PS2 3/4-INCH CDX PLYWOOD, 48/24 APA DOC PS2

ALL WALL SHEATHING SHALL BE LAID FACE GRAIN (MARKED SPAN DIRECTION) VERTICAL. FASTEN ALL WALL SHEATHING TO WOOD FRAMING WITH 10d COMMON NAILS AT 6" O.C. MAX TO SUPORTS AND 12" O.C. WITHIN THE FIELD. INSTALL 2x [FLAT] BLOCKING AT ALL UNSUPPORTED WALL PANEL EDGES. AT SHEAR WALLS WHERE SHEATHING OCCURS ON BOTH SIDES OF WALL AND NAIL SPACING IS LESS THAN 6" ON CENTER, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR MEMBERS SHALL BE 3-INCH NOMINAL OR DOUBLE 2x STITCH NAILED WITH (2) ROWS OF 10d COMMON NAILS AT 6" O.C., STAGGERED, FASTEN ALL ROOF SHEATHING TO WOOD FRAMING WITH LOA COMMON NAILS AT 6" O.C. UNBLOCKED AT PANEL EDGES AND 6" O.C. WITHIN FIELD.

SPECIAL STRUCTURAL INSPECTION - NONE

DEFERRED SUBMITTALS - PRE-ENGINEERED ROOF TRUSSES

GENERAL CONTRACTOR NOTES -

CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED FOR THE ERECTION OF THE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEEDURES REQUIRED TO PERFORM THE WORK. CONTRACTOR SHALL COORDINATE ALL TRADES AND VERIFY DIMENSIONS IN THE FIELD. THESE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.

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GENERAL STRUCTURAL NOTES, **FOUNDATION PLAN &**

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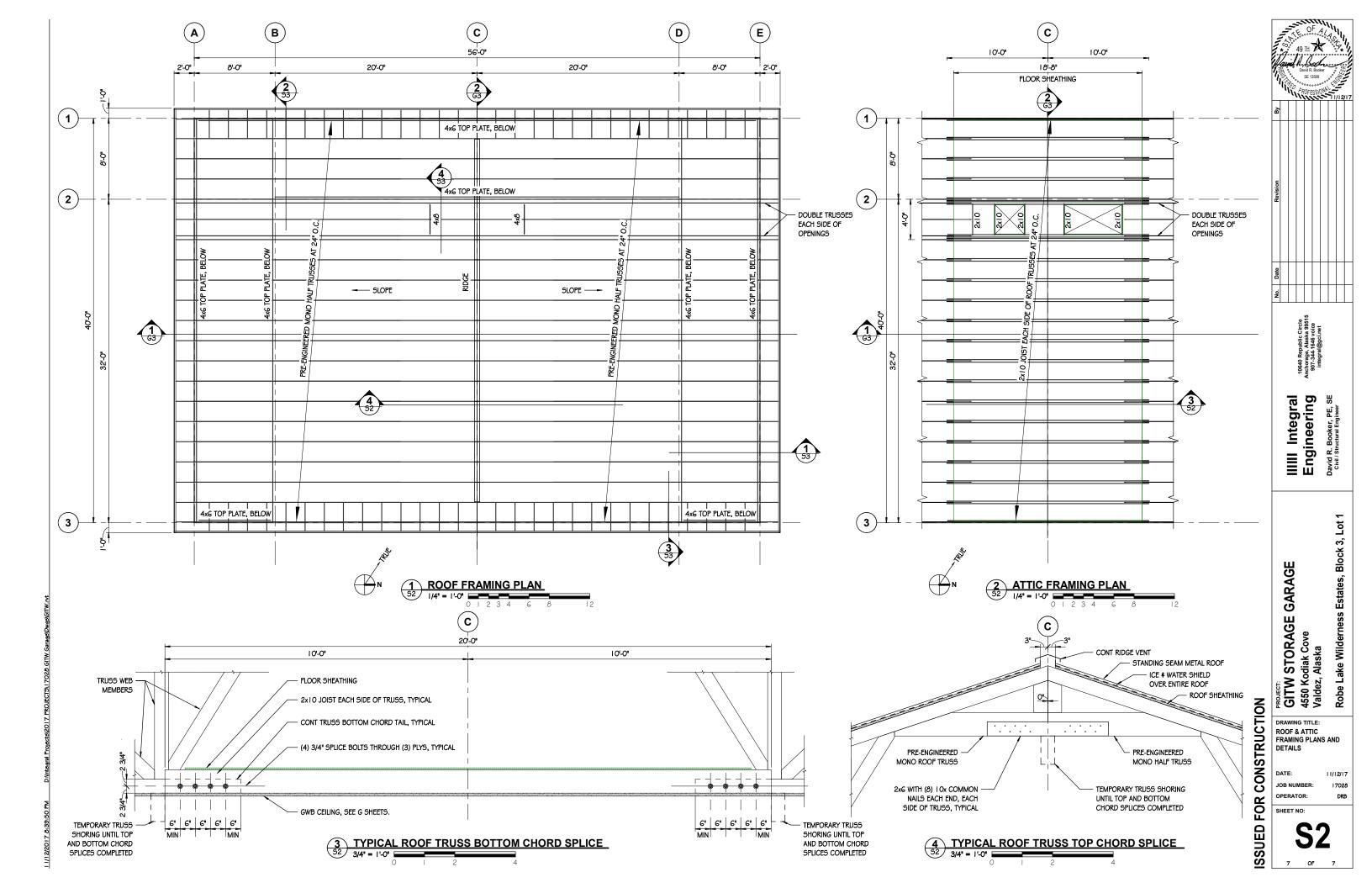
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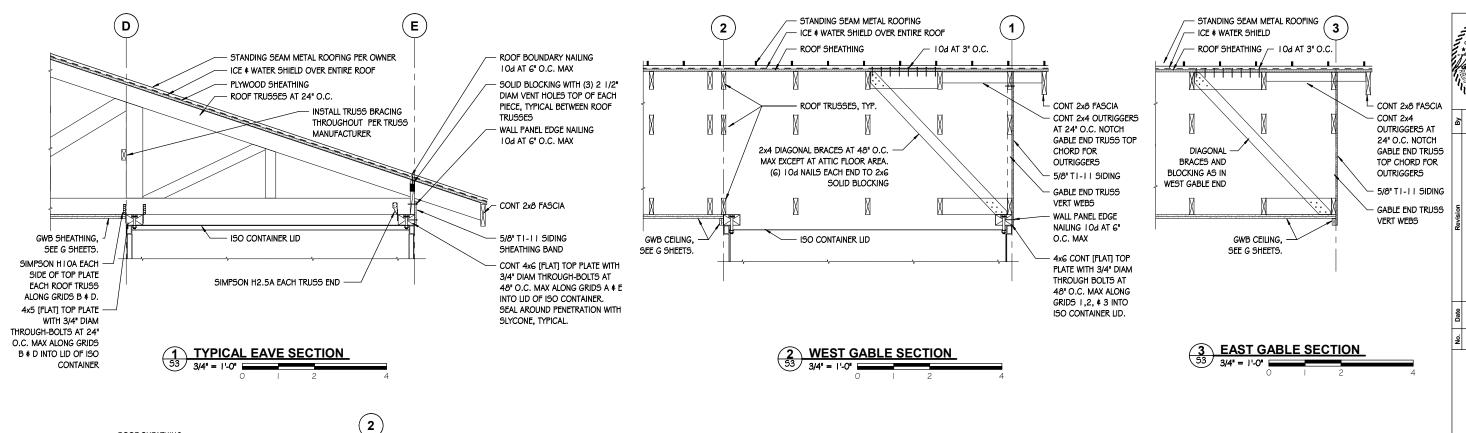
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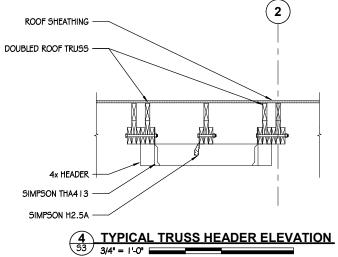
DETAILS DATE: 11/12/17 OB NUMBER 17028

OPERATOR

SHEET NO:







PROJECT:
GITW STORAGE GARAGE
4550 Kodiak Cove
Valdez, Alaska

Block 3, Lot 1

Estates, I

10640 Republic Circle Anchorage, Alaska 99515 907-344-1646 voice integral@gci.net

IIIIII Integral
Engineering
David R. Booker, PE, SE
CNI/ Structural Engineer

ROOF FRAMING DETAILS

DATE:

JOB NUMBER: OPERATOR:

SHEET NO:

11/12/17

17028

CONSTRUCTION FOR **ISSUED**