ROUND	WIND D		SEISMIC		AGE FRO	ЭM	WINTER	ICE	FLOOD	AIR	MEAN
SNOW	SPEED		DESIGN	MEATH-	FR <i>O</i> ST	TERVITE	DESIGN	BARRIER	HAZARD	REEZE	ANNUAL
LOAD	(MPH)	EFFECT	CATEG	ERING	DEPTH	TERMITE		REQ'D		INDEX	TEMP
N/A	115	NO	В	SEVERE	48"	NONE	-15°	YES	4FEB05	2239	40-45 F
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.00F	(US USE.										85 PSF SURE B
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REFER TO SOILS REPORT #17-10928 BY NORTHWEST COLORADO CONSULTANTS, INC., FOR ADDITIONAL REQUIREMENTS. ALL RECOMMENDATIONS REFERENCED IN THE SOILS REPORT SHALL FROZEN MATERIALS OR MATERIALS CONTAINING ICE SHALL NOT BE USED. DURING HOT BE ADHERED TO, UNLESS OTHERWISE NOTED (UON).

AS NOTED IN THE SOILS REPORT, EXPANSIVE SOILS WERE ENCOUNTERED AT THIS SITE. THE OWNER TEMPERATURES OR WATER EVAPORATION THAT MAY IMPAIR REQUIRED STRENGTH OR IS AWARE OF THE RISKS ASSOCIATED WITH SWELLING SOILS AND HAS APPROVED THE USE OF THE SERVICE ABILITY OF THE MEMBER OR STRUCTURE. "ALTERNATE FOUNDATION RECOMMENDATION" IN THE DESIGN OF THIS FOUNDATION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE AND STANDARDS AS ADOPTED AND/OR AMENDED BY THE ROUTT COUNTY REGIONAL BUILDING DEPARTMENT AND THE FOLLOWING 2017 NATIONAL ELECTRICAL CODE (NEC) (2018 IRC SPECIFICATIONS ARE NOTED) LOCAL UTILITY REGULATIONS

ALL WORK EXECUTED IN ANY PUBLIC RIGHT-OF-WAY OR ON PUBLIC PROPERTY SHALL BE COMPLETED ACCORDING TO THE SPECIFICATIONS AND REQUIREMENTS OF THAT GOVERNING BODY O. SPECIAL NOTICE

THESE PLANS AND SPECIFICATIONS DEPICT THE WORK REQUIRED TO CONSTRUCT A FOUNDATION FOR A STEEL BUILDING PROVIDED BY RHINO STEEL BUILDING SYSTEMS AND THE WORK REQUIRED TO BRING THE STRUCTURE INTO COMPLIANCE AS AN ARENA (A4) INCLUDING REQUIRED ADA ACCESSIBILITY. THE BUILDING IS A TYPE II CONSTRUCTION.

SPECIAL INSPECTIONS REQUIRED

ALL COUNTY CODES AND ORDINANCES

EQUIVALENT FLUID PRESSURE (EFP).....

REGULATORY REQUIREMENTS

MELDING - THE PROPOSED TENSION TIES BETWEEN THE PILASTERS WILL REQUIRE A SPECIAL INSPECTION FOR WELDING, CONTACT NWCC, INC. FOR THIS INSPECTION.

HIGH STRENGTH BOLTING - ALL HIGH STRENGTH (A325, A 490) BOLTS AND NUTS MUST BE TIGHTENED BY THE "TURN OF THE NUT" METHOD UNLESS OTHERWISE SPECIFIED. INSPECTION OF HIGH MINIMUM WELDS TO BE PER AISC AND/OR AWS. BUT NOT LESS THAN 3/16" CONTINUOUS STRENGTH BOLT AND NUT INSTALLATION BY SPECIAL INSPECTION, CONTACT NWCC, INC. FOR THIS FILLET UNLESS OTHERWISE NOTED. QUALITY CONTROL SHALL BE PER AWS. USE ETOXX INSPECTION.

1. GENERAL REQUIREMENTS

EVERY ATTEMPT HAS BEEN TAKEN TO AVOID OR ELIMINATE ERRORS DURING THE PREPARATION STRUCTURAL MEMBERS OR CONNECTIONS FOR CONFORMANCE WITH THE APPROVED OF THESE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND STRUCTURAL DESIGN. THE SPECIAL INSPECTOR SHALL SUBMIT A SIGNED REPORT, STATING CONDITIONS SHOWN ON THESE PLANS WITH ACTUAL FIELD CONDITIONS.

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE INTERFACE BETWEEN ALL TRADES AND SUBCONTRACTORS, SO AS TO PRESENT A COMPLETE AND THE ROUGH FRAMING INSPECTION. SPECIAL INSPECTIONS IF REQUIRED SHALL BE AT THE FINISHED PRODUCT.

SHALL BE DONE TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY JOURNEYMEN OF THEIR ICBO APPROVED EQUAL, UNLESS OTHERWISE NOTED. REFER TO SIMPSON CATALOG FOR RESPECTIVE TRADES.

THESE DOCUMENTS DO NOT INCLUDE PROVISIONS FOR JOB SITE SAFETY. JOB SITE SAFETY AND PROTECTION OF ADJACENT PROPERTIES DURING CONSTRUCTION SHALL BE CONTRACTORS RESPONSIBILITY.

ALL CONTRACTORS SHALL CARRY WORKMAN'S COMPENSATION, CONTRACTORS LIABILITY, PERSONAL INJURY AND COMPREHENSIVE AUTOMOBILE AND PROPERTY DAMAGE INSURANCE. GENERAL CONTRACTOR TO CARRY "BUILDERS RISK" INSURANCE. OWNER TO CARRY FIRE INSURANCE ON THE COMPLETED STRUCTURE.

THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL BUILDING PERMITS, USE TAX, SALES TAX, AND INSPECTION FEES. SPECIAL INSPECTORS WHEN REQUIRED, SHALL BE EMPLOYED BY THE OWNER, ENGINEER RESPONSIBLE FOR THE DESIGN OR AN AGENT OF THE OWNER, BUT NOT 6. CARPENTRY - NO WORK THIS SECTION BY THE CONTRACTOR OR ANY OTHER PERSON RESPONSIBLE FOR THE WORK.

2. SITE CONSTRUCTION

3. CONCRETE

CONTRACTOR SHALL PROVIDE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO PERFORM ALL SITE WORK SHOWN OR SPECIFIED IN THESE DOCUMENTS.

FIELD LOCATE ALL UTILITY LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.

PLAN FOR EXTENT OF STRIPPING AND PROPOSED STOCKPILE LOCATION.

THE SLOPE OF CUT OR FILL SURFACES SHALL BE NO STEEPER THAN 2:1 (50% SLOPE). UON

ALL FOOTINGS ARE TO BE PLACED ON FIRM, UNDISTURBED NATURAL CLAYS. TOPSOIL, LOOSE NATURAL SOILS, ALL EXISTING FILL MATERIALS WITHIN THE FOUNDATION EXCAVATIONS SHALL BE REMOVED AND THE FOOTINGS EXTENDED DOWN TO MORE COMPETENT EXISTING SOILS. NOTIFY THE SOIL ENGINEER WHEN EXCAVATION IS COMPLETED SO THAT CONDITIONS MAY BE INSPECTED 3/4" INSULATING GLASS WITH INSUL LOW-E 366 COATING. UNIT U VALUE TO BE 0.32 MAXIMUM. PRIOR TO PLACEMENT OF ANY FILL OR CONCRETE.

BE PLACED IN ACCORDANCE WITH THE SOIL INVESTIGATION REPORT AND ACCEPTED ENGINEERING MANUFACTURER FOR EACH WINDOW OR DOOR AND SECTION R703.4. (R609.1) PRACTICE. A REPORT OF SATISFACTORY PLACEMENT OF FILL, PREPARED BY A QUALIFIED SOIL ENGINEER, SHALL BE REQUIRED. THIS REPORT SHOULD BE PROVIDED TO THE BUILDING INSPECTOR 9. FINISHES AT THE TIME OF FOOTING INSPECTION.

BE VERIFIED IN THE FIELD WITH ACTUAL CONDITIONS, BY THE CONTRACTOR, AND WITH THE APPROVAL OF THE ENGINEER AND THE OWNER.

LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET (IRC R401.3).

ALL UTILITY LINES SHALL BE EXTENDED FROM THE BUILDING TO THE UTILITY CONNECTION AS REQUIRED. CO-ORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND BURIED CABLE LOCATION 13. ENERGY EFFICIENCY - THIS BUILDING IS EXEMPT AS IT CONTAINS NO CONDITIONED SPACE. SERVICE AT 800.922.1987 OR 811

ELECTRIC - FROM METER BOX TO TRANSFORMER, CO-ORDINATE WITH YAMPA VALLEY ELECTRIC ASSOCIATION, 970.879.1160. VERIFY SERVICABILITY AND ADEQUATE CAPACITY, R&R AS REQ'D. 15. MECHANICAL - NO WORK THIS SECTION SEE PLANS AND SPECIFICATIONS BY MICHAEL EHRLICH STRUCTURAL ENGINEERING.

SEWER - SERVICE TO BE PROVIDED IN A MOBILE FACILITY. THIS STRUCTURE IS NOT CONECTED TO A SEWER SYSTEM.

WATER, TELEPHONE, GAS AND CABLE TELEVISION - SERVICE NOT REQUIRED

CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS AND EQUIPMENT TO COMPLETE ALL CONCRETE SHOWN OR NOTED IN THESE DOCUMENTS.

AS NOTED IN THE SOILS REPORT, EXPANSIVE SOILS WERE ENCOUNTERED AT THIS SITE. REFER TO ENGINEERS CERTIFICATION AS REQUIRED BY FEDERAL, STATE, OR LOCAL LAWS AND BUILDING THE SOILS REPORT FOR SPECIAL PRECAUTIONS AND CONSTRUCTION DETAILS.

FORMS SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE DESIGN DRAWINGS, AND SPECIFICATIONS.

CENTER ALL FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE NOTED ON PLANS. ALL CONCRETE WORK AND REINFORCEMENT DETAILING SHALL BE IN ACCORDANCE WITH ACI BOXES INSTALLED IN ACCORDANCE WITH SECTION 907. SEE DESIGN BY OTHERS. BUILDING CODE 318. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.

ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615 AND SHALL BE GRADE 40 MINIMUM OR AS SHOWN ON THE PLANS. ALL REINFORCEMENT SHALL BE COLD ENGINEERED DRAWINGS BENT UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL.

PROVIDE CONCRETE ENCASED ELECTRODE (UFER GROUND) PER SECTION E3608.1.2. CO-ORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT,

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3" CONCRETE EXPOSED TO EARTH OR WEATHER = 1-1/2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS = 3/4"

BEAMS, COLUMNS = 1-1/2" DEPTH OF FOOTING ABOVE BOTTOM REINFORCEMENT SHALL BE 6" MINIMUM.

NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE CONTACT THE SOILS ENGINEER AT TIME OF EXCAVATION TO VERIFY THAT ALL STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF (40) BAR DIAMETERS, UNLESS CONCRETE IS PLACED ON SUITABLE BEARING MATERIAL. OTHERWISE NOTED, MAKE ALL BARS CONTINUOUS AROUND CORNERS, PLACE (2) #5 BARS WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WALLS, SLABS AND BEAMS.

CONTINUOUS TOP AND BOTTOM BARS IN WALLS SHALL BE SPLICED AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ACI 3 18. WHERE PROVIDED IN SLABS ON GROUND, REINFORCEMENT SHALL BE SUPPORTED TO REMAIN IN PLACE FROM THE CENTER TO THE UPPER 1/3 OF THE SLAB FOR THE DURATION OF THE CONCRETE PLACEMENT. (R506.2.4)

3. CONCRETE -continued

ALL CAST-IN-PLACE CONCRETE SHALL BE MADE WITH TYPE II A PORTLAND CEMENT, \mid FIVE-SACK MIX, WITH 5% MINIMUM TO 7% MAXIMUM ENTRAINED AIR AND 3/4" MAXIMUM STONE AGGREGATE SIZE. CONCRETE SHALL DEVELOP 2,500 PSI COMPRESSIVE STRENGTH IN 28 DAYS FOR BASEMENT SLABS AND WALLS, 3,000 PSI FOR WALLS EXPOSED TO WEATHER AND 3,500 PSI FOR PATIOS, STEPS, GARAGE SLAB AND WEATHER EXPOSED CONCRETE. MATERIALS USED TO PRODUCE CONCRETE AND TESTING THEREOF SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN CHAPTER 3 OF ACI 318 OR ACI 332. CONCRETE SHALL BE PLACED WITH A 4" MAXIMUM SLUM, SHALL NOT BE PLACED ON FROZEN, MUDDY OR SATURATED SOIL AND SHALL BE PROTECTED FROM FREEZING FOR 7 DAYS.

CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50 60 PCF DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT. HIGH-EARLY STRENGTH CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST THE FIRST THREE DAYS. WEATHER, PROPER ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION AND CURING TO PREVENT EXCESSIVE CONCRETE

> DURING COLD WEATHER, PROVIDE TEMPORARY HEAT AS REQUIRED TO PREVENT "FROST DAMAGE" TO ALL FOOTINGS, WALLS, SLABS AND PIERS.

CONCRETE SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT AND BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.

FOOTINGS AND WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT A THIRD POINT OF SPAN WITH VERTICAL BULKHEADS, DOWELS AND SHEAR KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR REVIEWED BY THE ENGINEER.

METALS 5.

4. MASONRY - NO WORK THIS SECTION

ALL MISCELLANEOUS EMBEDDED ITEMS SHALL CONFORM TO ASTM A36. ALL BOLTS (INCLUDING ANCHOR BOLTS) SHALL CONFORM TO ASTM A307. DRILL PIPE TO BE 5-1/2" OD, S-135, 0.412" WALL THICKNESS

STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF AISC "MANUAL OF STEEL CONSTRUCTION".

WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE-STEEL", ANSI/AWS D 1.1-90.

ELECTRODES. ALL WELDING TO BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED FABRICATOR'S SHOP.

WHEN REQUIRED A QUALIFIED SPECIAL INSPECTOR SHALL OBSERVE ALL FIELD WELDING OF CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE REPORT SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO REQUESTING ROUGH FRAMING INSPECTIONS, OR THE REPORT MAY BE MADE AVAILABLE TO A FIELD INSPECTOR AT THE TIME OWNER'S EXPENSE. CONTACT NWCC, INC. FOR THIS SPECIAL INSPECTION

ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES AND ORDINANCES, AS AMENDED, AND MISCELLANEOUS CLIPS, ANCHORS AND CONNECTORS SHALL BE SIMPSON "STRONG TIE" OR APPROPRIATE NAILING WHEN NOT SPECIFIED ON PLANS. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

> EXPANSION BOLTS SHALL BE "WEG-IT", "REDHEAD" OR APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE 2" FOR 5/8" DIAMETER BOLTS. EPOXY GROUTED REBAR OR ANCHOR BOLT CONNECTIONS SHALL BE MADE WITH SIMPSON "EPOXY-TIE" AND PER MANUFACTURER'S INSTRUCTIONS.

ALL METALS, EXPOSED TO EARTH BELOW GRADE SHALL BE COMPLETELY COATED WITH BITUMASTIC (ASPHALTIC BASED) PAINT INCLUDING FASTENERS.

SEE PLANS AND SPECIFICATIONS BY RHINO STEEL BUILDING SYSTEMS FOR THE BUILDING

7. THERMAL AND MOISTURE PROTECTION

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSTALL INSULATION, VAPOR BARRIERS & RETARDERS, FLASHINGS, WATERPROOFING AND ROOF COVERING AS DETAILED OR SPECIFIED IN THESE DOCUMENTS.

8. DOORS AND WINDOWS

STRIP SITE OF EXISTING TOPSOIL AND STOCKPILE FOR RE-USE IN LANDSCAPING. REFER TO SITE CONTRACTOR SHALL SUPPLY AND INSTALL ALL DOORS, WINDOWS AND GLAZING AS DETAILED, SCHEDULED AND/OR SPECIFIED IN THESE DOCUMENTS.

> ALL MAIN LEVEL DOORS SHALL BE PROVIDED WITH ACCESSIBLE CLEARANCES AND LEVER HARDWARE. ACCESSIBLE DOOR THRESHOLDS SHALL BE A MAXIMUM OF 1/4" HEIGHT OR 1/2" WHEN BEVELED AT A 2:1 SLOPE.

OPTIONAL WINDOWS (IF PROVIDED) TO BE SEMCO OR APPROVED EQUAL. GLAZING TO BE ALL OPERABLE UNITS TO BE PROVIDED WITH SCREENS. CLAD COLOR PER OWNER. WINDOWS AND DOORS SHALL BE INSTALLED AND FLASHED IN ACCORDANCE WITH THE FENESTRATION WASHED ROCK OR EARTHEN FILL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING SHALL MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, WHICH SHALL BE PROVIDED BY THE

CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO FINISH ROOMS AND ALL FOOTING BEARING ELEVATIONS SHOWN ARE ASSUMED. EXACT BEARING ELEVATIONS SHALL BUILDING EXTERIOR AS DETAILED, SCHEDULED AND / OR SPECIFIED IN THESE DOCUMENTS.

10. SPECIALTIES - NO WORK THIS SECTION

1 1. EQUIPMENT - NO WORK THIS SECTION

12. DEFENSIBLE SPACE - NO WORK THIS SECTION

14. PLUMBING - ON WORK THIS SECTION

16. ELECTRICAL

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSTALL ALL WIRING AND RELATED FIXTURES. ALL WORK SHALL COMPLY WITH IRC PART VIII - ELECTRICAL, CHAPTERS 33 THRU 41 OF THE 2018 IRC, THE 2017 NEC, STATE AND LOCAL CODES AND ORDINANCES.

THE ELECTRICAL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE SYSTEMS AS WELL AS THE EXECUTION OF THE WORK ACCORDING TO ACCEPTED STANDARDS OF ENGINEERING WORKMANSHIP AND REGULATORY REQUIREMENTS. ELECTRICAL CONTRACTORS TO PROVIDE ADDITIONAL DRAWINGS, SPECIFICATIONS AND

DEPARTMENT JURISDICTION. EXIT SIGNS ARE REQUIRED AT ALL MAN DOORS PER SECTION 1013 AND 1010.1.9.3.2.2.

EXIT ILLUMINATION IS REQUIRED PER SECTION 1008

THIS BUILDING SHALL BE EQUIPED WITH A FIRE ALARM SYSTEM WITH MANUAL FIRE ALARM

SEE PLANS AND SPECIFICATIONS BY MICHAEL EHRLICH STRUCTURAL ENGINEERING.

THE ENGINEERED DESIGN DRAWINGS ARE FOR STRUCTURAL ENGINEERING OF THE HOUSE AND PERMANENT FOUNDATION ONLY. DETACHED RETAINING WALLS ARE NOT PART OF THE ENGINEERED STRUCTURAL DRAWINGS AND ARE BY OTHERS. SLOPE STABILITY, EXCAVATION, SHORING, DRAINAGE, SOILS ISSUES & CONSTRUCTION METHODS ARE NOT INCLUDED AND SHOULD BE ADDRESSED BY AN ENGINEER OR SPECIALIST OF THAT FIELD OF WORK. PROJECT ENGINEERING IS EXCLUDED.

ALL SOILS ISSUES SHOULD BE BROUGHT TO THE ATTENTION OF THE SOILS ENGINEER. THE OWNER OR HIS REPRESENTATIVE ARE RESPONSIBLE FOR FOLLOWING THE SOILS REPORT, CONTACTING THE SOILS ENGINEER AND FOLLOWING THEIR RECOMMENDATIONS AND TO HAVE

READ THE SOILS REPORT AND RECOGNIZE THE RISKS AND LIMITATIONS STATED THEREIN.

