



Building Safety Department
2101 O'Neil Avenue, Room 202
Cheyenne, WY 82001
Phone: (307) 637-6265 Fax: (307) 637-6366



January 29, 2015

RESIDENTIAL OPEN HOLE INSPECTION REPORT

RE: LOT: _____ BLOCK: _____ SUBDIVISION: _____

ADDRESS: _____ PERMIT NO: _____

IN ACCORDANCE WITH IRC CHAPTER 4, THE SOIL CONDITIONS OF THE ABOVE REFERENCED SITE WERE DETERMINED BY ME ON _____ (DATE) AND THE FOLLOWING CONDITIONS WERE NOTED:

I. BEARING VALUES IN LIEU OF SOILS TEST

A.

**TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING VALUES OF
FOUNDATION MATERIALS**

CLASS OF MATERIAL	LOAD-BEARING PRESSURE (pounds per square foot)
Crystalline bedrock	12,000
Sedimentary and foliated rock	4,000
Sandy gravel and/or gravel (GW and GP)	3,000
Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)	2,000
Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH)	1,500

LOAD BEARING PRESSURE IS: _____.

B. IS THE FOOTING/FOUNDATION TO BE PLACED ON UNDISTURBED NATURAL SOIL?
_____YES _____NO

IF NO, ATTACH COMPACTION REPORT AND SOILS REPORT.

C. WERE EXPANSIVE SOILS PRESENT? _____YES _____NO

(CONTINUED ON REVERSE)

II. FOUNDATION DRAINAGE

A. SUBSURFACE CONDITIONS:

1. WERE ANY UNUSUAL MOISTURE CONDITIONS OBSERVED? _____ YES _____ NO
2. WERE GROUNDWATER CONDITIONS OBSERVED? _____ YES _____ NO

B.

TABLE R405.1
PROPERTIES OF SOILS CLASSIFIED ACCORDING TO THE
UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL GROUP	UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL	SOIL DESCRIPTION	DRAINAGE CHARACTERISTICS	FROST HEAVE POTENTIAL	VOLUME CHANGE POTENTIAL EXPANSION
Group I	GW	Well-graded gravels, gravel sand mixtures, little or no fines	Good	Low	Low
	GP	Poorly graded gravels or gravel sand mixtures, little or no fines	Good	Low	Low
	SW	Well-graded sands, gravelly sands, little or no fines	Good	Low	Low
	SP	Poorly graded sands or gravelly sands little or no fines	Good	Low	Low
	GM	Silty gravels, gravel-sand-silt mixtures	Good	Medium	Low
	SM	Silty sand, sand-silt mixtures	Good	Medium	Low
Group II	GC	Clayey gravels, gravel-sand-clay mixtures	Medium	Medium	Low
	SC	Clayey sands, sand-clay mixture	Medium	Medium	Low
	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Medium	High	Low
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Medium	Medium	Medium to low
Group III	CH	Inorganic clays of high plasticity, fat clays	Poor	Medium	High
	MH	Inorganic silts, micaceous or liatomaceous fine sandy or silty soils, elastic silts	Poor	High	High
Group IV	OL	Organic silts and organic silty clays of low plasticity	Poor	Medium	Medium
	OH	Organic clays of medium to high plasticity, organic silts	Unsatisfactory	Medium	High
	Pt	Peat and other highly organic soils	Unsatisfactory	Medium	High

SOIL GROUP & CLASSIFICATION ARE: _____.

C. IS A PERIMETER FOUNDATION DRAIN REQUIRED IN ACCORDANCE WITH IRC R405.1? _____ YES _____ NO

III. THE TYPE OF FOOTING/FOUNDATION RECOMMENDED FOR THIS SITE IS:

SIGNED: _____ WYO. REG. NO.: _____ DATE: _____

PRINT NAME (Required) _____

This report cannot be accepted if the name is not legibly printed.

THIS DOCUMENT MUST BE COMPLETED AND RETURNED TO THE BUILDING SAFETY DEPARTMENT **PRIOR TO PLACING ANY CONCRETE.**