

Staff Report for Administrative Approval – Hillside Review – Notice of Conditional Approval

Weber County Planning Division

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Application Information			
Application Request: Applicant: File Number:	Consideration and action on a requi Residence on Lot 14-R of Summit Ec Amy Dee HSR 2018-03	est to appr den Phase :	ove a Hillside Review for the Passageland LLC 1A.
Property Information			
Approximate Address: Project Area: Zoning: Existing Land Use: Proposed Land Use: Parcel ID: Township, Range, Section:	7719 E Horizon Run, Eden 4.28 acres DRR-1 Vacant Single Family Residence 23-128-0009 7N 2E Sec 6		
Adjacent Land Use			
North: Vacant Resident East: Vacant Resident	ial ial	South: West:	Vacant Residential Vacant Residential
Staff Information			
Report Presenter: Report Reviewer:	Steve Burton <u>sburton@co.weber.ut.us</u> 801-399-8766 RG		
Applicable Ordinances			

- Weber County Land Use Code Title 108 (Standards) Chapter 14 (Hillside Development Review)
- Weber County Land Use Code Title 108 (Standards) Chapter 22 (Natural Hazards Areas)

Background

The subject lot (14-R) is located in Summit Eden Phase 1A which was recorded with the Weber County Recorder's office on January 27, 2014. The average slope of the lot exceeds 25 percent, as such, plans for development are required to be reviewed by the Hillside Development Review Board, as outlined in the Uniform Land Use Code of Weber County (LUC) Title108 Chapter 14.

IGES has performed the geotechnical report and the geologic hazards investigation. Information related to the construction of the dwelling as outlined in the geologic and geotechnical reports, have been distributed to the Hillside Review Board for comment. The reports have been reviewed by all applicable review agencies.

Planning Division Review

The Planning Division Staff has determined that, in compliance with review agency conditions, the requirements and standards provided by the Hillside Review Chapter have been met for the excavation and construction of the dwelling. The following submittals were required:

- 1. Engineered Plans.
- 2. Geotechnical Investigation and Geologic Hazards Report (see Exhibit B).
- 3. Utah Pollution Discharge Elimination system (UPDES) Permit with Storm water Pollution Prevention Plan. A condition of approval from the Planning Division is that the applicant provides the UPDES Permit and SWPPP with the building permit application.
- 4. Landscaping plan.

Weber County Hillside Review Board comments

The Weber County Hillside Review Board, on this particular application, made the following comments and conditions:

<u>Weber County Engineering Division</u>: The Engineering Division granted approval on June 28, 2018. The approval is subject to the following comments as conditions of approval:

All the recommendations of the geotechnical report must be followed including the following:

- An engineering geologist shall inspect the excavation for the house to ensure the suitability of the soils.
- The house shall stay in the location presently shown in the submitted house plan.
- Storm water shall be diverted around the house and away from the site.
- If there are cracks or creeping in the soil, consult the engineering geologist.

<u>Weber Fire District</u>: The Fire District granted an approval on June 19, 2018 subject to the following conditions:

- 1. A fire suppression system is required.
- 2. Adherence to both specific and general comments from the full Fire District review.

<u>Weber County Building Inspection Department</u>: The Building Inspection Department granted approval on June 26, 2018. The approval is subject to the following comments as conditions of approval:

- 1. Provide a copy of a letter from the engineer stating that he has reviewed the Geological report and has addressed any concerns.
- 2. A geotech engineer must see the excavation and any recommendations must be followed.
- 3. A letter from the geotech engineer approving the soils will need to provide at the footing inspection.

<u>Weber-Morgan Health Department</u>: The Health Department will not impose any requirements or conditions for this application due to the proposed residence connecting to the Powder Mountain Water and Sewer District for culinary and wastewater services.

<u>Weber County Planning Division</u>: The Planning Division has granted approval subject to the applicant complying with all Board requirements and conditions. This approval is also subject to the applicant developing Lot 14-R according to approved plans and in compliance with the geologic and geotechnical investigation reports performed by IGES, dated March 8, 2018 as project number 02693-001 which outline specific recommendations for the site development.

Planning Division Findings

Based on site inspections and review agency comments, the Planning Division Staff is recommending approval subject to the following conditions:

- 1. Development of the lot must comply with the excavating, grading, and filling standards outlined in LUC §108-14-8 as well as the recommendations outlined in the geologic and geotechnical reports that were provided with the application.
- 2. The applicant shall provide the UPDES Permit and SWPPP with the building permit application.
- 3. The irrigation of proposed natural landscaping shall not include a drip irrigation system or any system other than manually watering plants until established.
- **4.** As a condition it is understood, by the applicant and his geo-technical engineer and geologist, that if any geologic hazards are revealed during the excavation and construction phase of the dwelling, work on Lot 14-R will cease pending the development of appropriate mitigation measures and subsequent approval by the County and the County's contracted geo-technical and/or geological consultant.

The recommendation for approval is based on the following findings:

- 1. The application was submitted and has been deemed complete.
- 2. The requirements and standards found in the Hillside Development Review Procedures and Standards Chapter have been met or will be met during the excavation and construction phase of the dwelling.
- 3. The Hillside Review Board members reviewed the application individually and have provided their comments.
- 4. The applicant has met or will meet, as part of the building permit process and/or during the excavation and construction phase of the dwelling, the requirements and conditions set forth by the Hillside Review Board.

Administrative Approval

Administrative approval of Lot 14-R, Passageland LLC Hillside Review (HSR2018-03), is hereby granted based upon its compliance with the Weber County Land Use Code. This approval is subject to the requirements of applicable review agencies and is based on the findings listed in this staff report.

Date of Administrative Approval: _____

Rick Grover Weber County Planning Director

Exhibits

- A. Approved Plans
- B. Geotechnical Investigation and Geologic Hazards Report

Map 1



May 30, 2018 **DD Issued for Pricing**

MacKay-Lyons Sweetapple

Architects Limited 2188 Gottingen Street Halifax, Nova Scotia, Canada B3K 3B4 ph: (902) 429-1867 fax: (902) 429-6276

Blackwell

Structural Engineers 19 Duncan Street, Suite 405 Toronto, Ontario, Canada M5H 3H1 ph: (416) 593-5300 fax: (416) 593-4840

Talisman Civil Engineers

Civil Engineers 5217 South State Street #200 Murray, Utah, United States 84107 ph: (801) 743-1300

IGES

Geotechnical Engineers

12429 South Street 300 East, Suite 100 Draper, Utah, United States 84020-8770 ph: (801) 748-4045

BMA Consulting

Electrical Engineers 635 South State Street Salt Lake City, Utah, United States 84111 ph: (801) 532-2196

Harris-Dudley Co.

Mechical Engineers 3039 Specialty Circle Salt Lake City, Utah, United States 84115 ph: (801) 363-3883

Edge Builders LLC. **Construction Management**

P.O. Box 17404, Salt Lake City, Utah, United States 84117 ph: (801) 381-9003

CIVIL

C101	General Notes & Legend	E000	Schedule & Notes	A001	Abbreviations, Key Plan	A500	Wall Sections
C201	Site & Utility Plan	E100	Electrical Site Plan		& Partition Types	A501	Wall Sections
C202	Horizontal Control Plan	E200	Lighting Plan - Ground Floor	A100	Site Plan	A502	Wall Sections
C301	Grading & Drainage Plan	E201	Lighting Plan - Lower Floor	A200	Ground Floor Plan	A510	Section Details
C601	Erosion Control Plan	E202	Lighting Plan - Main Floor	A201	Lower Floor Plan	A511	Plan Details
C701	Details	E203	Lighting Plan - Upper Floor	A202	Main Floor Plan	A600	Millwork - Kitchen & Pantry
		E300	Power Plan - Ground Floor	A203	Upper Floor Plan	A601	Millwork - Details
STRUCTU	RAL	E301	Power Plan - Lower Floor	A204	Rfl'd Clg. Plan - Ground Fl.	A602	Millwork - Master Suite
		E302	Power Plan - Main Floor	A205	Rfl'd Clg. Plan - Lower Fl.	A603	Millwork - Foyer & Media
S001	General Notes	E303	Power Plan - Upper Floor	A206	Rfl'd Clg. Plan - Main Fl.	A604	Millwork - Lower Floor
S002	Typical Details	E400	One-line Diagram &	A207	Rfl'd Clg. Plan - Upper Fl.	A605	Millwork - Ground Floor
S100	Foundation Plan		Panelboard Schedule	A300	Exterior Elevations	A606	Millwork - Garage & Mud
S101	Lower FI. Framing Plan			A301	Exterior Elevations	A610	Stairs
S102	Main FI. Framing Plan	MECHANICA		A400	Building Sections	A700	Bridge
S103	Garage FI. Framing Plan			A401	Building Sections	A900	Window & Door Schedule
S104	Roof Framing Plan	M200	Duct Design	A402	Building Sections		
			A403	Building Sections		
				A404	Building Sections		

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	J			A403	Building Sections		
				A 4 A 4	Duilding Sactions		



ELECTRICAL

ARCHITECTURAL

Lot 14R Mountain House Summit Powder Mountain, Eden, Utah





1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR 2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE

3. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL 4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION 6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.

RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL 9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF 10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE

APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING 11. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR 12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP 13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL

15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS. LIGHTS. BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. 16. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK

17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATION OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A

CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER- OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND 18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE

19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING 20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR

21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND. INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL

TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR. 23. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR

24. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS. SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE ENGINEER. AND THE RESPECTIVE REGULATORY AGENCY. 25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY. SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL

26. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

GENERAL NOTES CONT.

- 27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING. 29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE
- EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 -TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES. 30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

UTILITY NOTES

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
- 2. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL
- EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES. UTILITIES AND SERVICE TO THE PROJECT. . CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY
- EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES. 4. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE.
- 5. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE. 6. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
- 7. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH. 8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS
- AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX. 9. SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION. 10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL
- MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS. 11. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED. 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL
- WATER ENTERING THE TRENCH EXCAVATION 13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS. 14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY
- UTILITY LINES. 15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED. 16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER
- OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION). 17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" OF COVER TO TOP OF
- PIPE BELOW FINISHED GRADE. 18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES.
- 19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES. 20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF
- CURB, GUTTER, SIDEWALK AND STREET PAVING. 21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- 22. THE CONTRACTOR SHALL NOTIFY TALISMAN CIVIL CONSULTANTS, LLC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS. 23. UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH

EROSION CONTROL GENERAL NOTES.

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED. CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER.

CONSTRUCTION WATER COST TO BE INCLUDED IN BID. WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

<u>LEGEND:</u>

SYMBOL / LINETYPE DESCRIPTION EXISTING 4" WATER PIPE ______4"W ______ EXISTING WATER SERVICE LATERAL EXISTING WATER METER EXISTING WATER VALVE EXISTING 8" SANITARY SEWER PIPE ______8"SS ______ EXISTING SANITARY SEWER LATERAL AND CLEANOUT (1)SS-P ------ EXISTING PRESSURIZED SANITARY SEWER PIPE EXISTING SANITARY SEWER GRINDER/PUMP EXISTING SANITARY SEWER MANHOLE EXISTING 15" STORM DRAIN PIPE _____15"SD _____ EXISTING STORM DRAIN MANHOLE EXISTING STORM DRAIN FLARED END SECTION EXISTING TELECOMMUNICATION CONDUIT _____T____ TL EXISTING TELECOMMUNICATION PULL BOX EXISTING ELECTRICAL CONDUIT _____ EXISTING ELECTRICAL PULL BOX EXISTING ELECTRICAL TRANSFORMER EXISTING GAS PIPE _____ G____ PROPOSED CONCRETE BZ PROPOSED GABION BASKET WALL PROPOSED WATER METER PROPOSED GAS PIPE PROPOSED ELECTRICAL CONDUIT PROPOSED TELECOMMUNICATIONS CONDUIT ______T_____ NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET.

EROSION CONTROL GENERAL NOTES

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

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LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

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ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES OUTSIDE OF DESIGNATED SITE GRADING SHALL BE RETURNED TO NATURAL GRADE AND SEEDED PER SEEDING INSTRUCTIONS UNDER SCOPE OF WORK.

MAINTENANCE: ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

<u>EXPOSED SLOPES:</u> ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14

DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS: A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED

10lb/ac

4lb/ac

B) TRACKING STRAW PERPENDICULAR TO SLOPES C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

* SEED MIXTURE FOR REVEGITATION a. MEADOW BROME (RIGOR) 14lb/ac

b. ORCHARD GRASS c. ALFALFA (ADAK)

ABBRE VIA TIONS:

- BG BUILDING BW - BOTTOM OF WALL
- FL FLOWLINE FG – FINISHED GROUND
- EX EXISTING MA — MATCH
- TW TOP OF WALL

WEBER COUNTY 2380 WASHINGTON BLVD. #240 OGDEN, UT 84401 (801) 399–8374

ROCKY MOUNTIAN POWER 1438 WEST 2550 SOUTH OGDEN, UT 84401 (801) 629–4429

POWDER MOUNTAIN WATER & SEWER DISTRICT PO BOX 270 EDEN, UT 84310 (801) 745–0912

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8"SS HDPE -- 8"SS HDPE -(16) $\langle 15 \rangle$ STORM DRAIN EASEMENT



BUILDING ENVELOPE

PLANNING.

ENSURE ALL GRADING SLOPES AWAY FROM STRUCTURE AT 5% FOR A MINIMUM OF 10' PER IRC R401.3

<u>KEY NOTES:</u> $\langle 1 \rangle$ BUILDING FOOTPRINT. SEE ARCHITECTURAL PLANS.

 $\langle 3 \rangle$ building portion above. See architectural plans. (4) INSTALL PREFABRICATED STEEL BRIDGE. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS. 5 PROTECT IN PLACE EXISTING IMPROVEMENTS/UTILITIES IN PLACE. IF DAMAGED, REPLACE AT CONTRACTOR'S EXPENSE. $\langle 6 \rangle$ connect to existing 2"ø water lateral per detail b/sheet c601. $\langle 7 \rangle$ INSTALL 2"Ø PVC FIRE LINE, MINIMUM COVER OF 60" DEEP. $\langle s \rangle$ install 3/4"ø pvc water lateral, minimum cover of 60" deep.

 $\langle 10 \rangle$ connect 1 1/2"ø pressure sewer pipe to existing 4"ø sewer lateral. INSTALL E/ONE GRINDER PUMP STATION MODEL DH071. WITH E/ONE SENTRY ALARM PANEL INCLUDING GENERATOR RECEPTACLE WITH AUTO TRANSFER AND GFCI RECEPTACLE. ALARM PANELS SHALL BE INSTALLED WITHIN LINE OF SIGHT OF ENTRY TO UNIT. SEE DETAIL SHEET C602.

 $\langle 12
angle$ install 4"ø sewer lateral and cleanout per apwa standard plan no. 431. (13) GAS PIPES, AND STORAGE TANKS (1,000 GAL) TO BE EXCAVATED AND TRENCHED BY CONTRACTOR. INSTALLATION BY OTHERS. GAS PIPE MINIMUM COVER OF 24".

(14) PROPANE TANK PIT PER DETAIL C/SHEET 601.

(15) INSTALL 2" ELECTRICAL CONDUIT WITH MULE TAPE, MINIMUM COVER OF 24". CONTRACTOR TO COORDINATE ELECTRICAL INSTALLATION WITH ROCKY MOUNTAIN POWER. (16) INSTALL 2" COMMUNICATIONS CONDUIT WITH MULE TAPE, MINIMUM COVER OF 24". CONTRACTOR TO COORDINATE WITH SUMMIT FOR COMMUNICATIONS SERVICE AND INSTALLATION.

 $\langle \overline{17} \rangle$ see mechanical plans for continuation of utility within building. $\langle 18 \rangle$ concrete retaining wall. See architectural and structural plans.

GENERAL NOTES: THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY WEBER COUNTY. ALSO, INSPECTORS WILL HAVE THE RIGHT TO REQUEST CHANGES TO THE FACILITIES

DUST MUST BE KEPT TO A MINIMUM. CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTACT POWDER MOUNTAIN WATER & SEWER IMPROVEMENT DISTRICT TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY.

<u>UTILITIES:</u> ENSURE MINIMUM BURIED DEPTH PER BUILDING CODE FOR ALL BURIED UTILITIES. IMPROVEMENTS, INCLUDING LANDSCAPING, SHALL NOT INTERFERE WITH ANY DRAINAGE CULVERT, RIP RAP, AND DRAINAGE PATTERN ASSOCIATED WITH ANY DRAINAGE EASEMENT.

(9) INSTALL 1 1/2"Ø DR-11 IPS PRESSURE SEWER PIPE, MINIMUM COVER OF 60". SEWER PRESSURE LINE TO CROSS UNDER WATER LATERAL WITH A MINIMUM OF 18" CLEAR BETWEEN PIPES AT CROSSING.







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1	3657488.
2	3657470.
3	3657476.
4	3657481.
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7	3657426.
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9	3657407.
10	3657408.
11	3657379.
12	3657378.
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17	3657410
18	3657382.

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1	3657488.79	1568127.71
2	3657470.62	1568155.56
3	3657476.65	1568135.24
4	3657481.33	1568152.69
5	3657435.03	1568165.10
6	3657436.29	1568141.13
7	3657426.30	1568140.61
8	3657426.72	1568132.62
9	3657407.54	1568164.16
10	3657408.85	1568139.19
11	3657379.89	1568137.67
12	3657378.58	1568162.64
13	3657405.36	1568139.01
14	3657405.91	1568128.44
15	3657380.94	1568127.13
16	3657408.95	1568127.68
17	3657410.21	1568103.71
18	3657382.25	1568102.25
19	3657380.99	1568126.21





Exhibit A







xhibit



EROSION CONTROL GENERAL NOTES:

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SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

EXPOSED SLOPES: ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS: A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED B) TRACKING STRAW PERPENDICULAR TO SLOPES Ć) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

> HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION ON SLOPES OF 3:1 OR STEEPER MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SPECIFICATIONS.

INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN. SEE EROSION CONTROL DETAILS ON SHEET C701.

INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN. SEE EROSION CONTROL DETAILS ON SHEET C701. INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF PROJECT PRIOR TO GRADING.

SEED MIXTURE FOR REVEGETATION

40% MOUNTAIN BROME (BROMUS MARGINATUS) 25% SLENDER WHEATGRASS (ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS)

5% SHEEP FESCUE (FESTUCA OVINA SPP. DURIUSCULA) 5% ALPINE BLUEGRASS (POA ALPINE)

SEEDING RATE IS 40 POUNDS PER ACRE.





scale: 1"=10' date: 05.15.2018 drawn: JLB

1. GENERAL A. Description. A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched.

Silt fence

- B. Application. To intercept sediment from disturbed areas of limited extent. C. Perimeter Control: Place barrier at down gradient limits of disturbance.
- D. Sediment Barrier: Place barrier at toe of slope or soil stockpile. E. Protection of Existing Waterways: Place barrier at top of stream bank.
- F. Inlet Protection. 2. PRODUCTS

NARRATIVE:

- A. Fabric. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 deg F to 120 deg F. B. Burlap. 10 ounces per square yard of fabric.
- C. Posts. Either 2" x 4" diameter wood, or 1.33 pounds per linear foot steel with a minimum length of 5 feet, or steel posts with projections for fastening wire to them. 3. EXECUTION
- A. Cut the fabric on site to desired width, unroll, and drape over the barrier. Secure the fabric toe with rocks or dirt and secure the fabric to the mesh with twin, staples or similar devices.
- B. When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap.
- C. When used to control sediments from a steep slope, place silt fences away from the toe of the slope for increased holding capacity. D. Maintenance.
- 1) Inspect immediately after each rainfall and at least daily during prolonged rainfall. 2) Should the fabric on a silt fence or filter barrier decompose or become ineffective
- before the end of the expected usable life and the barrier still be necessary, replace the fabric promptly. 3) Remove sediment deposits after each storm event. They must be removed when
- deposits reach approximately one-half the height of the barrier. 4) Re-anchor fence as necessary to prevent shortcutting.
- 5) Inspect for runoff bypassing ends of barriers or undercutting barriers.

THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



INSTALLATION SEQUENCE



Silt fence

122

Plan



February 2006

Inlet protection – fence or straw bale

1. GENERAL

- A. Description. A temporary sediment barrier around storm drain inlet. B. Application. At inlets in paved or unpaved areas where up gradient area is to be
- disturbed by construction activities.
- 2. PRODUCT (Not used)
- 3. EXECUTION A. Installation and application criteria.
 - 1) Provide up gradient sediment controls, such as silt fence during construction of inlet. 2) When construction of inlet is complete erect straw bale barrier, silt fence or other approved sediment barrier surrounding perimeter of inlet. 3) Install filter fabric completely around grate.
- B. Maintenance. 1) Inspect inlet protection after every large storm event and at a minimum of once monthly. 2) Remove sediment accumulated when it reaches 4-inches in depth.
- 3) Repair or re-align barrier or fence as needed. 4) Look for bypassing or undercutting and re-compact soil around barrier or fence as required.
- 1. GENERAL
- 522.
- 2. PRODUCTS paint or better.
- 3. EXECUTION
- A. Meter Placement: (street side).
- surrounding surface.
- ENGINEER.
- before compaction is 8-inches.





3/4" and 1" meter

A. In street surfaces or other vehicular traffic areas (like driveway approaches), Install the same type of meter box as required for 1 1/2" and 2" service meters. See Plan B. Before backfilling, secure inspection of installation by ENGINEER.

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission. B. Backfill: Common fill. APWA Section 31 05 13. Maximum particle size 2-inches. C. Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based

1) All meters are to be installed in the park strip or within 7 feet of the property line 2) Do not install meters under driveway approaches, sidewalks, or curb and gutter. B. Meter Box: Set box so grade of the frame and cover matches the grade of the C. Pipe Outside of Right-of-Way: Coordinate with utility agency or adjacent property owner for type of pipe to be used outside of right-of-way. D. Inspection: Before backfilling around meter box, secure inspection of installation by E. Base Course and Backfill Placement: Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. Maximum lift thickness

Cover collar for water valve box

- 1. GENERAL A. In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.
- 2. PRODUCTS A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission. B. Concrete: Class 4000, APWA Section 03 30 04.
- C. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00. 3. EXECUTION
- A. Base Course: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 B. Pavement Preparation: Provide a neat vertical and concentric joint between concrete collar and existing asphalt concrete surface. Clean edges of all dirt, oil, and loose debris.

Plan 574

LOT 14R Residence Summit Powder Mountain Eden, Utal MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276 **TALISMAN** CIVIL CONSULTANTS 5217 SOUTH STATE STREET SUITE 200 MURRAY, UT 84107 801.743.1300

o. Description Revision NOTES:

COPYRIGHT RELATED TO THE USE OF THIS The use of this drawing shall be governed by standard copyright law as generally accepted in architectural

ARCHITECT'S REQUIREMENTS AND APPROVALS It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer. AUTHORITIES' REQUIREMENTS AND APPROVALS: All materials and workmanship must comply with the

requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities. DIMENSIONS: All dimensions must be verified on site. Do not scale of

drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the International Building Code, 2009

SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Details

scale: N/A date: 05.15.2018 drawn: JLB chk'd: RWC

C701

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			ACT DOCI E PROCEE TURAL DF	RAL DRAWINGS IN CONJUNCTION V UMENTS. EDING WITH WORK, CHECK ALL TH RAWINGS WITH THE ARCHITECTUR	WITH THE SPECIFICATION E DIMENSIONS SHOWN (AL, MECHANICAL AND EI	NS AND ALL OTHER ON THE LECTRICAL
С Х Ц			NGS AND TO THE A NINGS AN I THE CON	REPORT DISCREPANCIES TO THE RCHITECTURAL AND OTHER DRAV ND SLEEVES NOT SHOWN ON THE ISULTANT'S PRIOR APPROVAL BEF	CONSULTANT. VINGS FOR LOCATIONS A STRUCTURAL DRAWING FORE INSTALLING OPENI	AND DIMENSIONING S. HOWEVER, NGS, SLEEVES, ETC.
	5.	SEE A BASE SHOV	ARE NOT ARCHITECTI S, SUMPS, ⁻ WN ON STRU	SHOWN ON STRUCTURAL DRAWIN URAL, MECHANICAL AND ELECTRIC TRENCHES, DEPRESSIONS, GROO' JCTURAL DRAWINGS.	NGS. CAL DRAWINGS FOR LOC VES, CURBS, CHAMFERS	CATIONS OF PITS, S AND SLOPES NOT
	б. 7.	DURII TYPIC DRAV	ZONTAL AND NG CONSTR CAL STRUCT VINGS, THE	D VERTICAL DESIGN LOADS ARE N RUCTION. FURAL DETAILS SHALL GOVERN TH MOST STRINGENT SHALL GOVERN	IE WORK. IF DETAILS DIF	FER ON THE
	8.	ALL T	EMPORARY	Y WORKS INCLUDING SHORING AR	E TO BE PROVIDED BY T	HE CONTRACTOR.
	<u>01000</u> 1.	ALL V	VORK SHAL	2 L CONFORM TO THE MINIMUM STA	NDARDS AND REQUIREN	IENTS OF THE
	2.	FOLL THE I	OWING COE BC 2015, AN	DES: ID ALL OTHER APPLICABLE LOCAL	CODES AND REGULATIO	ONS HAVING
	3.	JURIS AMEF	SDICTION. RICAN SOCII	ETY OF CIVIL ENGINEERS: ASCE 7	-10 MINIMUM DESIGN LO	ADS FOR
	4.	AMEF	BUILDINGS RICAN CONC	AND OTHER STRUCTURES. CRETE INSTITUTE (ACI): ACI-318-14	BUILDING CODE REQUIF	REMENTS FOR
	5.	STRU AMEF	ICTURAL CO RICAN INSTI	DNCRETE. TUTE OF STEEL CONSTRUCTION (A	AISC): AISC-325 AMERICA	AN INSTITUTE OF
	6.	AMEF	L CONSTRU RICAN INSTI	JCTION MANUAL 14TH EDITION. TUTE OF STEEL CONSTRUCTION ()	AISC): AISC 360-16 SPEC	IFICATIONS FOR
	7.	AME	RICAN INSTI	TUTE OF STEEL CONSTRUCTION (A	AISC): AISC-341-16 SEISM	IC PROVISIONS
	8.	AME	RICAN WOO	D COUNCIL (AWC): NDS-2015 NATIO	ONAL DESIGN SPECIFICA	TION FOR WOOD
	9.		RICAN WOO	D COUNCIL (AWC): SDPWS-2015 SF	PECIAL DESIGN PROVISIO	ONS FOR WIND
	10.	FORC	ES ON STR	UCTURAL FRAME:		
		А. В. С.	LIVE: DEAD: SNOW:	VARIES REFER TO NOTES UNDER VARIES REFER TO NOTES UNDER EXPOSURE FACTOR (CE) THERMAL FACTOR (CT)	R PLANS R PLANS	= 1.0 = 1.0
				IMPORTANCE FACTOR (I) ROOF SLOPE FACTOR (CS) GROUND SNOW LOAD (PG): FLAT ROOF SNOW LOAD (PF): SLOPED ROOF SNOW LOAD (PS):		= 1 = 1 = 270psf = 189psf = 189psf
				FROST DEPTH:		= 40in
		D.	WIND:	BASIC WIND SPEED (V): WIND IMPORTANCE FACTOR (I): EXPOSURE FACTOR:		=115mph = 1 = C
	11.	SEISM	MIC ANALYS	SIS:		
		E. F.	SEISMIC IM RISK CATE	IPORTANCE FACTOR (I): GORY:		= 1 = II
		G. H. I.	SPECTRAL SPECTRAL SITE CLASS	RESPONSE ACCEL (Ss): RESPONSE ACCEL (S1): SIFICATION:		= 0.831g = 0.277g = C
		з. К. L.	DESIGN SP SEISMIC DE	ECTRAL RESPONSE (SDS). ECTRAL RESPONSE (SD1): ESIGN CATEGORY:		= 0.392g = 0.281g = D
	12.	LATE	RAL LOAD F	RESISTING SYSTEMS		
		M.	THE LATER I) LATERAL	RAL FORCES ARE RESISTED BY: SYSTEM:	STEEL SPECIAL CONCI BRACED FRAMES	ENTRICALLY
			RESPONSE OVERSTRE DEFLECTIO	EMOD. COEFFICIENT(R): ENGTH FACTOR(Ω): DN MODIFICATION FACTOR(Cd):	6 2 5	
			II) LATERAL	_ SYSTEM:	STEEL ORDINARY CON BRACED FRAMES	ICENTRICALLY
			RESPONSE OVERSTRE DEFLECTIC	E MOD. COEFFICTIENT(R): ENGTH FACTOR(Ω): DN MODIFICATION FACTOR(Cd):	3.5 2 3.5	
			III) LATERA	L SYSTEM:	ORDINARY CONCRETE	SHEAR WALLS
			RESPONSE OVERSTRE DEFLECTIO	E MOD. COEFFICTIENT(R): ENGTH FACTOR(Ω): DN MODIFICATION FACTOR(Cd):	4 2.5 4	
		N. O.	SEISMIC AN	NALYSIS PROCEDURE: SOFTWARE:	EQUIVALENT LATERAL RISA FLOOR/3D	FORCE.
	13.	LATE	RAL LOAD C	ON FOUNDATIONS		
		P.	A GEOTEH LOT 14R OF UTAH" PRO	CNICAL REPORT "GEOTCHNICAL A F SUMMIT EDEN PHASE 1A POWDE DIFCT_NUMBER 02693-001, DATED	ND GEOLOGIC HAZARD I R MOUNTAIN RESORT W MARCH 8TH, 2017 HAS B	INVESTIGATION: /EBER COUNTY, FEN PREPARED

BY IGES INC. THE CONTRACTOR IS TO READ THE REPORT AND BE FAMILIAR WITH IT'S CONTENTS. Q. FOUNDATION WALLS ARE DESIGNED ASSUMING THERE IS FREE-DRAINING BACKFILL OR THAT OTHER PROVISIONS HAVE BEEN MADE, SUCH THAT THE WALLS ARE NOT SUBJECT TO HYDROSTATIC PRESSURE.

030000 CONCRETE

1. NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 3/4". USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY. MODIFY MIX DESIGNS TO SUIT. CATEGORY DESCRIPTION SCOPE ျပဳလ်ပ္ရို FOUNDATION MIX 3500 5-8% FOOTING AND CAPS CM1 _____ SLAB ON GRADE MIX SLABS ON GRADE CM2 3000 SLAB AND BEAM MIX FRAMED SLABS AND BEAMS CM3 4500 CONC. COLUMNS AND CM4 COLUMN AND WALL MIX 4500 WALLS NOT EXPOSED TO FREEZE THAW OR DE-ICING CHEMICALS TOPPINGS ON CONCRETE CM5 TOPPING MIX 3000 COMPOSITE DECK MIX SLABS ON METAL DECKS CM6 3000 C-1² 5000 0.40 5-8% FOUNDATION WALLS CM7 PARKING SLAB AND ADJACENT TO PAVING BEAM MIX FRAMED SLABS AND BEAMS EXPOSED TO DE-ICING CHEMICALS C-2 4700 0.45 5-8% EXTERIOR PAVING AND PAVING MIX CM8 SIDEWALKS C-4 3500 0.55 4-7% SLAB ON GRADE IN PARKING GARAGE EXPOSED TO CM9 PARKING MIX DE-ICING CHEMICALS BUT NOT TO FREEZE THAW CM10 INTENTIONALLY LEFT BLANK EXTERIOR WALL MIX F-2 3500 0.55 4-7% FOUNDATION WALLS AND OTHER CM11 WALLS EXPOSED TO FREEZE THAW BUT NOT EXPOSEDTC DE-ICING CHEMICALS

1. WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY 1% 2. REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCI CORROSION INHIBITOR @ 11L/cu.m. DOSAGE OR APPROVED EQUIVALENT

2.	REINFORCEMENT: CONFORM TO THE REQUIREMENTS OF ASTM A615
A.	REINFORCEMENT IS USED. REINFORCING BARS SHALL BE MINIMUM ASTM A61 FABRIC SHALL BE MINUMUM ASTM A185, SUF
3. A.	SLAB ON GRADE: PLACE SLABS ON GRADE ON MATERIAL CAPABLE
В.	WITHOUT SETTLEMENT RELATIVE TO BUILDI BEFORE PLACING SLAB, PLACE MINIMUM 6" OF 3/4
4.	STONE OVER THE SUB GRADE. THOROUGHL LINES AND LEVELS REQUIRED. CONCRETE AND REINFORCEMENT:
A.	SPACING TO VERTICAL STEEL IN THE WALL
В.	PROVIDE 1.5"x2.5" KEYS AT ALL CONSTRUCTION JO OTHERWISE.
C.	CONCRETE COVER TO REINFORCEMENT TO CONF THE INTERNATIONAL BUILDING CODE AND A REQUIREMENTS:
	REINFORCING TYPE:
	SLABS NOT EXPOSED TO WEATHER AND INTERIOR WALL SURFACES
	EXTERIOR WALL SURFACES, SLABS EX TO WEATHER #5 AND SMALLER
	EXTERIOR WALL SURFACES, SLABS EX TO WEATHER LARGER THAN #5
	COLUMN AND BEAM TIES
	CLEAR DISTANCE BETWEEN BARS
	FORMED DIRECTLY AGAINST EARTH
D. E.	SECURELY TIE IN PLACE AND ADEQUATELY SUPPO ALL BARS MARKED 'CONTINUOUS JOINTS' (C WHERE CHEMICAL ANCHORS ARE QEQUIRED, USE APPROVED EQUAL.
0500	000 STRUCTURAL STEEL:
1.	ALL STRUCTURAL STEEL AND MISCELANEOUS ME
2.	ERECTED IN CONFORMANCE WITH AISC 325. MATERIALS: ALL STRUCTURAL STEEL SHALL CONFORM TO THI
	A. W-SHAPES
	 B. HSS (RECTANGULAR AND SQUARE) C. HSS (CIRCULAR) D. ANCLES/C. CHANNELS/MC. CHANNELS
	E. ALL OTHER STEEL PLATES
3.	WHERE SPECIFIED, GALVANIZED STEEL IS TO BE (A123 HOT DIP PROCESS.
4. 5.	ALL TEMPORARY BRACING, SHORING, AND ERECT ARE NOT SHOWN. WORK IS TO CONFORM TO OSH SHOP DRAWINGS ARE TO BE SUBMITTED TO CONS
6.	FABRICATION. TESTING AND INSPECTION AGENCIES SHALL SENI
7.	CONNECTIONS
	BOLTS AS PER 'SPECIFICATION FOR ST A490 BOLTS"
	G. UNLESS NOTED BOLTS IN CONNECTIONS SH THREADS EXCLUDED FROM THE SHEA NOTED.
	H. STEEL WASHERS CONFORM TO A436. NUTSI. ANCHOR BOLTS AND ANCHOR RODS TO COM
	J. ALL WELDED CONNECTIONS TO BE COMPLE "STRUCTURAL WELDING CODE - STEEL (AWS
	STRENGTH OF 70ksi FOR ALL ELECTRODES. K. ALL WELDERS ARE TO BE QUALIFIED IN ACC
	WELDS THEY WILL BE COMPLETING. L. WELD LENGTHS CALLED FOR ON STRUCTUF LENGTH. IF NO LENGTH IS SPECIFIED U
	M. ALL WELDING TO BE PERFORMED IN ACCOR PROCEDURE SPECIFICATION (WPS). SI OUTLINES ALL PROCEDURES, ELECTR
	LIMITATIONS. N. RUN-OFF TABS PER AWS D1.1 ARE REQUIRE PENETRATION WELDS. START AND CO
	WELDS ARE NOT TO BE COMPLETED A O. COMPLETE PENETRATION AND PARTIAL PEN INSPECTED AND EXAMINED BY ULTRAS
8.	ALL HEADED STUDS WELDED TO BEAMS OR CONC STUDS OR APPROVED FOLIAL
9.	HEADED STUDS SHALL BE AUTOMATICALLY WELD EQUIPMENT APPROVED BY THE MANUFACTURER
<u>3100</u>	000 FOUNDATIONS
1. OF \$ WF	A GEOTEHCNICAL REPORT "GEOTCHNICAL AND G SUMMIT EDEN PHASE 1C 8488 E. SPRING PARK ROAE BER COUNTY, UTAH" PROJECT NUMBER 02565-001 J
	PARED BY IGES INC READ THIS REPORT, AND BE T DINGS.
2	FOUND ALL FOOTINGS ON NATURALLY CONSOLID

- FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING AN ALLOWABLE BEARING VALUE OF 2900 PSF. 3. FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 40in BELOW FINISHED GRADE IF NOT NOTED TO BE FOUNDED LOWER. 4. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. 5. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER
- AND HAS ATTAINED 70% OF ITS SPECIFIED STRENGTH. 6. CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 1'-8" DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL.

A A615 AND ASTM A706 IF WELDABLE M A615 GRADE 60 AND WELDED WIRE , SUPPLY IN FLAT SHEETS.

ABLE OF OS SUSTAINING 500psf BUILDING FOOTING. OF 3/4" MAXIMUM SIZE CLEAR CRUSHED

UGHLY ROLL AND CONSOLIDATE TO THE

S SIMILAR IN NUMBER, SIZE, AND WALL OR COLUMN EXCEPT WHEN NOTED ION JOINTS UNLESS NOTED

CONFORM TO THE REQUIREMENTS OF AND ACI 318 AND THE FOLLOWING COVER

	3/4in
EXPOSED	1 1/2in
EXPOSED	2in
	1 1/2in
	2in

SUPPORT ALL REINFORCEMENT. LAP NTS' (CONT.) MINIMUM 40db. D, USE HILTI HIT HY 200 EPOXY OR

JS METAL SHALL BE DETAILED, FABRICATED AND THE NOTED ASTM STANDARDS UNO.

3in

A992	
A500 (Fy = 45ksi)	
A500 (Fy = 42ksi)	

A36

A36 D BE COMPLETED IN ACCORDANCE WITH ASTM RECTION CLIPS REQUIRED BY THE CONTRACTOR OSHA REQUIREMENTS. CONSULTANTS FOR REVIEW PRIOR TO

SEND STRUCTURAL TESTING AND INSPECTION CTIONS TO BE MADE WITH HIGH STRENGTH

FOR STRUCTURAL JOINTS USING ASTM A325 OR NS SHALL BE BEARING TYPE WITH E SHEAR PLANE. USE ASTM A325 BOLTS UNLESS

NUTS TO CONFORM TO A563 O CONFORM TO ASTM F1554 GRADE 36. MPLETED IN ACCORDANCE WITH THE (AWS-01.1) AND HAVE A MINIMUM TENSILE

ACCORDANCE WITH AWS.01.1 FOR ALL CTURAL DRAWINGS ARE NET EFFECTIVE FIED USE THE MINIMUM SIZE AS SPECIFIED IN AISC

CCORDANCE WITH A WRITTEN WELDING PS). SUBMIT ALL WPS TO CONSULTANT WHICH ECTRODE SPECIFICATIONS, DATA SHEETS AND

QUIRED FOR ALL COMPLETE JOINT ND COMPLETE ALL WELDS ON RUN-OFF TABS. TED AT COPE HOLE LOCATIONS.

PENETRATION WELDS SHALL BE LTRASONIC TESTING. ALL TESTING AND O IBC REQUIREMENTS. CONCRETE CONNECTIONS SHALL BE NELSON

WELDED IN SHOP OR FIELD WELDED WITH RER OF THE STUDS.

AND GEOLOGIC HAZARD INVESTIGATION: LOT 71R ROAD SUMMIT POWDER MOUNTAIN RESORT

001, DATED AUGUST 30TH, 2017 HAS BEEN D BE THOROUGHLY FAMILIARIZED WITH THEIR WALLS) UNTIL THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS IS POURED

06000	00 WO	OD:			
1.	FRAM REQU	IING LUMBE JIREMENTS	R SHALL BE DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE.	AND MEET THE FC	DLLOWING MINIMUM
		2x6 STUDS	SILLS AND PLATES	No2	
		2x_ JOISTS 6x6 AND LA	& BLOCKING RGER	No2 No1	
2.	ENGI REQL	NEERED FRA JIREMENTS	AMING BEAMS AND MATERIAL SHA UNLESS NOTED OTHERWISE.	LL MEET THE FOL	LOWING MINUMUM
		"PSL"	PARALLEL STRAND LUMBER		
			BENDING STRESS (EDGE LOADED))	Fb = 2,900psi
			COMPRESSIVE STRESS (PERP TO	GRAIN)	FV = 290psi Fc = 750psi
			COMPRESSIVE STRESS (PARA TO	GRAN)	Fc = 2,900psi
			MODULUS OF ELASTICITY	,	E = 2,000ksi
		"LVL"	LAMINATED VENEER LUMBER	\	$E_{h} = 2.600$ ngi
			SHEAR STRESS (EDGE LOADED))	Fv = 285psi
			COMPRESSIVE STRESS (PERP TO	GRAIN)	Fc = 750psi
			COMPRESSIVE STRESS (PARA TO	GRAN)	Fc = 2,510psi
			MODULUS OF ELASTICITY		E = 1,800ksi
		"LSL"	LAMINATED STRAND LUMBER		
			BENDING STRESS (EDGE LOADED)	Fb = 2,325psi
			SHEAR STRESS (EDGE LOADED)		Fv = 310psi
			COMPRESSIVE STRESS (PARA TO	GRAN)	Fc = 2.170psi
			MODULUS OF ELASTICITY	,	E = 1,550ksi
2					
3.		THED WITH	PLYWOOD OR OSB PANELS BLOC	S SHEARWALLS O	ES TYPICAL NAILING TO
	BE 10)d @ 6" c/c A	T ALL SUPPORTED EDGES AND 100	d @ 12" c/c AT INTE	ERMEDIATE SUPPORTS
	UNLE	SS NOTED (OTHERWISE.		
4.	ENGI		DOR JOISTS TO BE MANUFACTURE	D FLOOR JOIST S	YSTEM BY REDBUILT
	MANU	JFACTURER	PRIOR TO FABRICATION OF ELEM	ENGINEERED FLC ENTS.	JOR LATOUTS FROM
5.	ALL E	BLOCKING IN	I ENGINEERED FLOOR SYSTEM TO	BE FULL DEPTH L	.VL MATERIAL.
6.	SUBS		F FLOOR SYSTEM CAN BE MADE V	ITH THE SUBMISIS	SON OF EQUIVALENCY
7.	ALLV	VOOD-TO-W	OOD CONNECTIONS ARE TO BE B	SIMPSON STRON	IG TIF OR APPROVED
	EQUI	VALENT. ALI	HANGERS TO BE RATED FOR MIN	UIMUM CONNECT	ION FORCES NOTED ON
_	PLAN	S.			
8.	EXEC		ATES TO BE STAMPED "KD" WHICH		
	л.	MOISTURE	CONTENT NOT EXCEEDING 13%.	I INDICATES RIEN	
	В.	PROVIDE S	OLID BLOCKING, INCLUDING SQUA	SH BLOCKS, BELC	W ALL POINT
	~	LOADS, EX	TENDING DOWN TO THE TOP OF FO	DUNDATIONS.	- /
	U.	UNLESS SP	ECIFICALLY DETAILED OTHERWIS	E BY THE ENGINE	ERED FLOOR
	П	SUPPLIER.			
	D .	WOOD TO S	STEEL. WOOD TO FOUNDATION AN	TRAIMING REQUIR	D FLOOR ASSEMBLIES
		PROTECT A	ALL WOOD PRODUCTS FROM DAMA	GE AND STAINING	G DUE TO WETTING AND
	_	MOISTURE.			
	E.	RE-TIGHTE	N ALL ANCHORS JUST PRIOR TO C	OVERING THE WA	LL FRAMING.
01000	03 NO	TABLE SUBM	<u>IITTALS</u>		

1. GENERAL REVIEW BY COMPONENT ENGINEERS A. COMPONENT ENGINEERS ARE RESPONSIBLE FOR GENERAL REVIEW OF THE CONSTRUCTION FOR THE PORTION OF THE WORK PREPARED UNDER THEIR PROFESSIONAL SEALS. THEY SHALL PROVIDE: I) REPORTS FOR EACH SITE VISIT II) A PROJECT COMPLETION NOTICE

A. ENGINEERED COMPONENTS INCLUDE; PRECAST CONCRETE, OPEN WEB STEEL JOISTS, METAL DECK, PRE-ENGINEERED WOOD TRUSSES, DEEP FOUNDATIONS, MISCELLANEOUS METALS, STRUCTURAL GLASS, GLASS CONNECTIONS, CURTAINWALL, HELICAL PEIRS, GEOPIERS, MICROPILES.

010004 SUBMITTALS 1. GEOMETRY

A. SUBMIT SURVEY RECORDS CONFIRMING THAT THE BUILT GEOMETRY MATCHES THE DESIGN GEOMETRY. 2. CONCRETE REINFORCEMENT

- A. SUBMIT REINFORCING PLACING DRAWINGS AND BAR LISTS FOR REVIEW BY THE CONSULTANT. B. PROVIDE TEST CYLINDERS IN ACCORDANCE WITH ASTM STANDARDS.
- 3. STRUCTURAL STEEL A. SUBMIT DETAILED SHOP DRAWINGS AND DETAILED CONNECTIONS FOR ALL STEEL

COMPONENTS, BASED ON SECTION DETAILS AND CONNECTION DETAILS PROVIDED, FOR THE REVIEW OF THE CONSULTANT PRIOR TO ANY FABRICATION. B. ERECTION AND SETTING DRAWINGS FOR THE REVIEW OF THE CONSULTANT.

FRAMI	NG PLAN LEGEND	
REPEAT FRAMING ELEMENTS (SPAN)	,	
REPEAT FRAMING ELEMENTS (EXTENT)	←↓ →	
BEAM MEMBERS		
EXTERIOR STUD & LOAD BEARING STUDS		
WALLS (NON-LOAD BEARING)		
STUD WALL ABOVE		
CONCRETE WALLS		
COLUMN (HSS)	D	
COLUMN (WOOD)	\boxtimes	
COLUMN ABOVE		
CANTILEVERS	CANT.	
MOMENT CONNECTIONS	•	
EXTENT OF FINISHES		
EXTENT OF ROOF		
EXTENT OF ELEMENTS BELOW		

REINFORCING S ANCHORAGE USE OF REQUIRE CONCRETE SAM SLUMP, AIR CON CONCRETE PLAC CURING TEMPER STRENGTH VER FORMWORK STRUCTURAL STEEL (TABLE N5.4-1, AISC 3 VERIFY WELDIN CONSUMABLE MATERIAL IDEN WELDER IDENTIF FIT-UP GROOVE ACCESS HOLES FIT-UP FILLET V STRUCTURAL STEEL (TABLE N5.4-2, AISC 3 USE OF QUALIFI

SCHEDULE OF SPECIAL INSPECTIONS

SCHEDULE OF SPECIAL INSPECTIONS			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
REINFORCED CONCRETE			
REINFORCING STEEL		X	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS, AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT TAP LENGTHS, STAGGER AND OFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORT.
ANCHORAGE		Х	INSPECTION OF ANCHORS CAST IN CONCRETE.
USE OF REQUIRED MIX DESIGN		х	VERIFY THAT ALL MIXTURES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS; ACI 318: Ch. 4, 5.2-5.4; AND IBC 1904.3, 1913.2, 1913.3.
CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT, AND TEMPERATURE	х		
CONCRETE PLACEMENT	x		
CURING TEMPERATURE AND TECHNIQUES		X	VERIFY THAT AMBIENT TEMPERATURE FOR CONCRETE IS KEPT > 50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HIGH-EARLY-STRENGTH CONCRETE SHALL BE KEPT > 50°F FOR AT LEAST 3 DAYS. ACCELERATED CURING METHODS MAY BE USED (SEE ACI 318:5.11.3). ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.
STRENGTH VERIFICATION		Х	VERIFY THAT ADEQUATE STRENGTH HAS BEEN ACHIEVED PRIOR TO THE REMOVAL OF FORMS
FORMWORK		x	VERIFY THAT FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.
STRUCTURAL STEEL - PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10)			
VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES	х		
MATERIAL IDENTIFICATION		х	VERIFY TYPE AND GRADE OF MATERIAL.
WELDER IDENTIFICATION		х	A SYSTEM SHALL BE MAINTAINED BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED.
FIT-UP GROOVE WELDS		Х	VERIFY JOINT PENETRATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING.
ACCESS HOLES		х	VERIFY CONFIGURATION AND FINISH.
FIT-UP FILLET WELDS		х	VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND TACK WELD QUALITY AND LOCATION.
STRUCTURAL STEEL - DURING WELDING (TABLE N5.4-2, AISC 360-10)			
USE OF QUALIFIED WELDERS		х	
CONTROL AND HANDLING OF WELDING		x	VERIFY PACKAGING AND EXPOSURE CONTROL
CONSUMABLES CRACKED TACK WELDS		x	VERIFY THAT WELDING DOES NOT OCCUR
		X	OVER CRACKED TACK WELDING.
			AND TEMPERATURE ARE WITHIN LIMITS.
WPS FOLLOWED		X	VERIFY ITEMS SUCH AS SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.
WPS FOLLOWED		х	VERIFY ITEMS SUCH AS SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.
WELDING TECHNIQUES		Х	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATIONS, AND QUALITY OF EACH PASS.
STRUCTURAL STEEL - AFTER WELDING (TABLE N5.4-3, AISC 360-10)			
WELDS CLEANED		х	VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED.
SIZE, LENGTH, AND LOCATION OF WELDS	x		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	x		
ARC STRIKES	х		
K-AREA	X		
BACKING AND WELD TABS REMOVED	X		
	X		
WELDED JOINT/MEMBER	X		

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
NON-DISTRUCTIVE TESTING (SECTION N5.5, AISC 360-10)			
CJP WELDS		X	ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECTED TO TRANSVERSELY APPLIED TENSION LOADING IN MATERIALS 5/16" THICK OR GREATER. TESTING RATE MUST BE INCREASED IF >5% OF WELDS TESTED HAVE UNACCEPTABLE DEFECTS.
ACCESS HOLES (FLANGE > 2")	Х		
WELD JOINTS SUBJECT TO FATIGUE	х		
OTHER STEEL INSPECTIONS (SECTION N5.7, AISC 360-10; TABLES J8-1 & J10-1, AISC 341-10)			
STRUCTURAL STEEL DETAILS		Х	ALL FABRICATED STEEL OR STEEL FRAMES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL		Х	SHALL BE ON THE PREMISES DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS. VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDMENT ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.
WOOD CONSTRUCTION (IBC 1705.10.1 & 1705.11.2)			
HIGH-LOAD DIAPHRAGMS		Х	VERIFY THICKNESS AND GRADE OF SHEATHING, SIZE OF FRAMING MEMBERS AT PANEL EDGES, NAIL/STAPLE DIAMETERS AND LENGTH, AND THE NUMBER OF FASTENER LINES AND FASTENER SPACING PER APPROVED PLANS. PERFORMED BY CODE INSPECTION FIRM.
STRUCTURAL WOOD		Х	WHERE FASTENER SPACING IS < 4" o.c.: VERIFY PROPER NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF SHEAR WALLS, DIAPHRAGMS, BRACES, AND HOLDOWNS. PERFORMED BY CODE INSPECTION FIRM.
SOILS (IBC 1705.6)			
VERIFY SUBGRADE IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		Х	PRIOR TO PLACEMENT OF CONCRETE.
VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND MATERIAL		х	PROIR TO PLACEMENT OF COMPACTED FILL OR CONCRETE.
VERIFY THAT SUBGRADE HAS BEEN APPROPRIATELY PREPARED PRIOR TO PLACING COMPACTED FILL		Х	PROIR TO PLACEMENT OF COMPACTED FILL.
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		Х	ALL MATERIALS SHALL BE CHECKED AT EACH LIFT FOR PROPER CLASSIFICATIONS AND GRADATIONS NOT LESS THAN ONCE FOR EACH 10,000 SQ.FT. OF SURFACE AREA.
VERIFY PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION.	x		ALL MATERIALS SHALL BE CHECKED AT EACH LIFT FOR PROPER CLASSIFICATIONS AND GRADATIONS NOT LESS THAN ONCE FOR EACH 10,000 SQ.FT. OF SURFACE AREA.

OFFICIAL WITHIN 48 HOURS OF PERFORMING INSPECTIONS. 5. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS AND A STATEMENT INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND APPLICABLE CODES SHALL BE SUBMITTED.

THIS STATEMENT, AND THE IBC SECTIONS 1704 AND 1705. 4. INSPECTION REPORTS WILL BE SUBMITTED TO THE CODE CONSULTANT, THE ARCHITECT, AND THE STATE OF UTAH BUILDING

Lo	t 14 Mountain House
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Lot 14 Mountain Hous



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			REAC	TIONS			
BEAM MARK	BEAM SECTION	LEFT	END	RIGH	T END	CAMBER	REMARKS
		LIVE	DEAD	LIVE	DEAD		
1B-1	5-2x8 LVL						
1B-2	3-2x8 LVL						
1B-3	2-2x8 LVL						
1B-4	2-2x8 LVL						
1B-5	4-2x10 LVL						

BEAM SCHEDULE NOTES

- 1. LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN. 2. WHERE A BEAM MARK IS INDICATED WITH THE SUFFIX "R" ON PLAN THE REACTIONS ARE TO APPLY AT
- THE OPPOSITE ENDS. 3. REACTIONS GIVEN ARE SERVICE LOADS IN kips. 4. BEARING PLATE DIMENSION GIVEN FIRST IS PARALLEL TO THE BEAM WEB. 5. CENTRE BEARING PLATES UNDER BEAMS UNLESS NOTED OTHERWISE. PROVIDE 2-3/4" DIA. ANCHOR BOLTS, 16" LG, WITH 3" HOOK AND 4" THREADS, FOR BEARING PLATES BEARING ON CONCRETE OR MASONRY, UNLESS NOTED OTHERWISE. ALTERNATIVELY ANCHOR RODS MAY BE WELDED TO
- UNDERSIDE OF BEARING PLATE. GROUT MASONRY AS INDICATED IN THE GENERAL NOTES, UNLESS NOTED. 6. DESIGN CONNECTIONS FOR AXIAL FORCE (Pf), END MOMENT (Mf), TORSION (Tf) OR OUT OF PLANE
- HORIZONTAL FORCE (Hf) SHOWN IN THE REMARKS COLUMN, IN ADDITION TO THE VERTICAL SHEAR PROVIDED IN THE REACTION COLUMN. 7. CAMBERS ARE IN INCHES.

		COLUMN SCHEDULE
MEMBER MARK	MEMBER DESCRIPTION	REMARKS
C1	HSS10x8x3/8	MAX LOAD, Pf = 1305 kN
C2	W8x28	MAX LOAD, Pf = 1340 kN
C3	HSS6x6x1/4	MAX LOAD, Pf = 320kN

STEEL COLUMN SCHEDULE NOTES

NOTED OTHERWISE.

1. CENTRE COLUMNS, CAPS AND FOOTINGS ON GRIDS UNLESS NOTED OTHERWISE. 2. COLUMN LOADS INDICATED ARE FACTORED COMPRESSION. 3. REFER TO STANDARD DETAIL 0303 TYPICAL FOOTING AND COLUMN BASE DETAILS

UNLESS NOTED OTHERWISE. 4. PROVIDE 4-3/4" DIAM. ANCHOR BOLTS AS PER STANDARD DETAIL 0303 UNLESS

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	MacKay-Lyons Sweetapple Architects	Summit Powder Mountain Eden, Utah
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			BRACE	- -
2B4 (+18"	C ¹ ABOVE BRACE	2B1	CONC WALL BELOW BRACE	CT ABOVE BRACE
2B4 2B4 QN 2B4 QD 2B4 QD 2B5 QN 2B5		2B1	2B4-R 2B4-R 2B4-R 2B4-R 2B5-R 2B5-R	BRACE
2B4 2B4 2B4 2B4 2B4		2B1	8" R/CONC WALL BELOW	G3ABOVE
2B4 (+18")		2B1		

			В	EAM SCHE	DULE		
			REAC	TIONS			
BEAM MARK	BEAM SECTION	LEFT	[END	RIGH	T END	CAMBER	REMARKS
		LIVE	DEAD	LIVE	DEAD		
2B-1	W12x26	1.0	2.2	1.0	2.2		
2B-2	W12x26	1.0	1.0	1.0	1.0		
2B-3	W12x26	1.0	1.0	1.0	1.0		
2B-4	W27x102						CAMBER FOR DEAD LOAD MC2 = 650 ft-kips
2B-5	W33x118						CAMBER FOR DEAD LOAD MC1 = 950 ft-kips
2B-6	W12x26	1.0	1.0	1.0	1.0		AXIAL Peq = 200k MC3 = 25 ft-kips
2B-7	W27x146						CAMBER FOR DEAD LOAD
2B-8	W16x67	10.3	22.8	10.3	22.8		
BRACE	HSS 152x152x6.4						

STEEL BEAM SCHEDULE NOTES

- 1. LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN. 2. WHERE A BEAM MARK IS INDICATED WITH THE SUFFIX "R" ON PLAN THE REACTIONS ARE TO APPLY AT
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 REACTIONS GIVEN ARE SERVICE LOADS IN kips.
 BEARING PLATE DIMENSION GIVEN FIRST IS PARALLEL TO THE BEAM WEB.
 CENTRE BEARING PLATES UNDER BEAMS UNLESS NOTED OTHERWISE. PROVIDE 2-3/4" DIA. ANCHOR BOLTS, 16" LG. WITH 3" HOOK AND 4" THREADS, FOR BEARING PLATES BEARING ON CONCRETE OR MASONRY, UNLESS NOTED OTHERWISE. ALTERNATIVELY ANCHOR RODS MAY BE WELDED TO
- UNDERSIDE OF BEARING PLATE. GROUT MASONRY AS INDICATED IN THE GENERAL NOTES, UNLESS NOTED.
 6. DESIGN CONNECTIONS FOR AXIAL FORCE (Pf), END MOMENT (Mf), TORSION (Tf) OR OUT OF PLANE HORIZONTAL FORCE (Hf) SHOWN IN THE REMARKS COLUMN, IN ADDITION TO THE VERTICAL SHEAR
- PROVIDED IN THE REACTION COLUMN. 7. CAMBERS ARE IN INCHES.

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284-R CANT GR GR 284-R CANT GR GR 285-R CANT GR GR 284-R CANT GR GR	2B4-R		C1 A80 ^{VE} +18"		 		
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2B4-R 2B4-R 2B4-R CANT CANT CANT			0" R/CONC		282		
2B4-R	2B4-R			CANT			
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			▶				

COLUMN SCHEDULE							
MEMBER MARK	MEMBER DESCRIPTION	REMARKS					
C1	HSS10x8x3/8	MAX LOAD, Pf = 300kips					
C2	W8x28	MAX LOAD, Pf = 300kips					
C3	HSS6x6x1/4	MAX LOAD, Pf = 100kips					
C4	W10x49	MAX LOAD, Pf = 330 kips					

STEEL COLUMN SCHEDULE NOTES

NOTED OTHERWISE.

CENTRE COLUMNS, CAPS AND FOOTINGS ON GRIDS UNLESS NOTED OTHERWISE.
 COLUMN LOADS INDICATED ARE FACTORED COMPRESSION.

 REFER TO STANDARD DETAIL 0303 TYPICAL FOOTING AND COLUMN BASE DETAILS UNLESS NOTED OTHERWISE.
 PROVIDE 4-3/4" DIAM. ANCHOR BOLTS AS PER STANDARD DETAIL 0303 UNLESS

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	MacKay-Lyons		Summit Powder Moun Eden, U	tain Itah
	Sweetapple Architects Limited			
H	2188 Gottingen St. lalifax, Nova Scotia Canada B3K 3B4			
F	ph: (902) 429.1867 fax: (902) 429.6276			
fore 416.	Naterico Vi 193.5300 blackwe	KV Ictoria H ell.ca	vel allfax	
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			В	EAM SCHEI	DULE											
	REACTIONS				REACTIONS											
BEAM MARK	BEAM SECTION	LEFT	END	RIGH	T END	CAMBER	REMARKS									
		LIVE DEAD LIVE DEAD														
3B-1	C12x20.7	1.3	2.8	1.3	2.8											
3B-2	W12x26	4.3	2.0	4.3	2.0		AXIAL FORCE Peq = 200kips									
3B-3	W12x26	2.4	5.2	2.4	2.8											
3B-4	W12x35	12.2	1.2	12.2	1.2											
3B-5	W30x90	4.7	56.6	6.4	68.6		UPTURNED IN BRIDGE GUARD WALL									
3B-6	W30x90	4.7	60.4	3.1	44.2		UPTURNED IN BRIDGE GUARD WALL									
3B-7	W12x35	9.3	4.5	9.3	4.5											
3B-8	W30x90	-32.6	4.7	107.4	15.2		UPTURNED IN GARAGE WALL									
3B-9	W12x26	4.4	9.6	4.4	9.6											
3B-10	W30x90	82.3	19.1	180.9	24.8											
3B-11	W12x26	2.4	5.2	2.4	2.8		AXIAL FORCE Peq = 200kips									
3B-12	W12x26	0.7	1.6	1.8	4.1											

COLUMN SCHEDULE							
MEMBER MARK	MEMBER DESCRIPTION	REMARKS					
C1	HSS10x8x3/8	MAX LOAD, Pf = 300kips					
C2	W8x28	MAX LOAD, Pf = 300kips					
C3	HSS6x6x1/4	MAX LOAD, Pf = 100kips					
C4	W10x49	MAX LOAD, Pf = 330kips					







		ROOF BEAM SCHEDULE												
ELEVATIONS				REACTIO	DNS (kips)									
NOTED	BEAM MARK	BEAM SECTION	LEFT	END	RIGH	T END	CAMBER	REMARKS						
			SNOW	DEAD	SNOW	DEAD								
	RB-1	W10x22	2.4	0.5	2.4	0.5		AXIAL FORCE Peq = 200kips CURVE TO MATCH ROOF						
	RB-2	W16x26	10.0	1.5	10.0	1.5		CURVE TO MATCH ROOF						
	RB-3	W16x26	4.2	0.5	19.8	3.7								
	RB-4	W16x26	0.5	0.5	0.5	0.5								
5)	RB-5	W16x26	19.6	2.8	19.6	2.8								
	RB-6	W10x22	12.6	1.9	12.6	1.9								
	RB-7	W10x60	14.6	2.3	50.2	7.8		CAMBER FOR DEAD LOAD						
	RB-8	W10x22	11.9	1.7	11.9	1.7								
	RB-9	C10x15.3	6.1	1.0	6.1	1.0								
	RB-10	W16x26	5.3	0.8	5.3	0.8		AXIAL FORCE Peq = 200kips						
	RB-11	W16x26	19.1	2.7	23.8	3.4								
	RB-12	W16x26	8.8	1.4	30.3	4.8		CAMBER FOR DEAD LOAD						
	RB-13	W16x26	15.2	2.2	15.2	2.2		AXIAL FORCE Peq = 200kips						
	RB-14	W16x26	14.0	2.0	14.0	2.0								
	RB-15	W16x26	11.0	1.7	11.0	1.7								
	BRACE	HSS 152x152x6 4												

COLUMN SCHEDULE							
MEMBER MARK	MEMBER DESCRIPTION	REMARKS					
C1	HSS10x8x3/8	MAX LOAD, Pf = 1305 kN					
C2	W8x28	MAX LOAD, Pf = 1340 kN					
C3	HSS6x6x1/4	MAX LOAD, Pf = 320kN					

Summit Powder Mountai Eden, Uta MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4 Ph: (902) 429.1867 fax: (902) 429.276	
Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276 Blackweel	
Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276 Blackwell	
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16.593.5300 blackwell.ca	
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NOTES: COPYRIGHT RELATED TO THE USE OF THIS DRAWING: The use of this drawing shall be governed by standard convright law as generally accented in architectural	
ARCHITECT'S REQUIREMENTS AND APPROVALS It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviate	: s
from instructions provided by the Architect. ENGINEER'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviate from instructions provided by the Finite	s
AUTHORITIES' REQUIREMENTS AND APPROVALS All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.	;:
DIMENSIONS: All dimensions must be verified on site. Do not scale of drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Completent	I
SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated element of the building.	ff
Roof Framing	ff r s
Plan	rr s

xhibit ш

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GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- 3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION
- REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 23 (15) WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN. 4. SEE SECTION 265100 (16510) OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS
- WITH MECHANICAL AND CEILING CONTRACTORS. 5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING
- DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- 6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS. 7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- 8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- 9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED. 11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BR	ANCH CIRCUIT CO	NDUCTOR SIZING
MAXIMUM LENGTH	BRANCH CIF	RCUIT VOLTAGE
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #12 AWG
115 – 170	MIN. #8 AWG	MIN. #10 AWG
170 – 270	MIN. #6 AWG	MIN. #8 AWG
271 – 380	NOTE B	MIN. #8 AWG

- NOTE B NOTE B >380 A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT. B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

FLOOR BOX SCHEDULE

- LIGHT FIXTURE ABBREVIATION SCHEDULE NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED. REFER T BRING A.F.F. ABOVE FINISH FLOOR ARCHITE WALLOCLG WALL MOUNT AT CORNER OF WALL AND CEILING REFER T ССВА CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT FIXTURES SCBA STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT REFER T CFBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT REQUIRE SFBA STANDARD FINISH AS SELECTED BY THE ARCHITECT refer t Require MODIFY STANDARD LIGHT FIXTURE AS INDICATED MOD CONFIRM SHOWN THE ARC BIDDING REQU 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM. 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED. 3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM S DISTRIBUTORS AND/OR CONTRACTORS. 4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESC PRIOR APPROVAL 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT. 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT I THIS TIME PERIOD SHALL BE REJECTED. 3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS S 4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADD 5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMIT ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN 6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PI SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFO PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED. 7. SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGI 8. SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST. LIGHTING SHOP DRAW 1. REFER TO SPECIFICATIONS 260500, 265100 & 265600 (16001, 16510 & 16551). 2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS. 3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM L 4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL. 5. CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAM
- 6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, APPROVED. 7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

FIXTURE SCHE TYPE DESCRIPTION MANUFACTUR RECESSED RIMLESS A DJUSTA BLE MULTIPLE'S DM RECESSED ROUND WHITE TRIM FINISH AND REFLECTOR ADUSTABLE DR 3G LIGHTHEA DED RECESSED SQUARE TRIMLESS IN WOOD CEILING DS LUMENWERX PENDANT 3" WIDE ALUMINUM FINISH QTRAM LINEAR WET LOCATION LED STRIP LIGHT W/ POWER SUPPLY 01 02 W S1 WALL MOUTNED LIGHT FIXTURE IN EXERIOR SKI IN/OUT DECORATIVE WALL SCONCE CONTECH SHR ROUND RECESSED WET LOCATION DOWNLIGHT, WHITE FINISH WITH LENSE UNDERCOUNTER LINEAR LIGHTING QTRAM UC WALL MOUNTED VANITY LIGHT FIXTURE V1 WALL MOUNTED VANITY LIGHT FIXTURE V2 _____ WALL MOUNTED VANITY LIGHT FIXTURE V3 _____ WALL MOUNTED LINEAR, WHITE FINISH, FLAT LENSE, MOUNTED ABOCE DOOR. LUMAX WL 4' IN LENGTH WALL MOUNTED LINEAR, WHITE FINISH, FLAT LENSE, MOUNTED ABOCE DOOR. LUMAX WL2 2' IN LENGTH _____ RECESSED SQUARE STEP LIGHT WHITE FINISH LUCIFIER WS

	EQUIPMENT SCHEDULE																	
									1	NIRE	S	_	00	PD	RE	F. NO	TES	
UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL	LOAD	AMPS	CONDUIT SIZE	NO. SETS	NO.	SIZE	EQUIP. GND ₁₎	ТҮРЕ	AMPS	STARTER	DISCONNECT	OTHER	REMARKS
B-1	BOILER	54 V A	120	1		0.45		3/4"	1	2	12	12	CB	15				
C-1	CONDENSER	35.6 FLA	240	1		35.60)	3/4"	1	2	6	60	CB	45				
F-1	FURNACE	12.8 FLA	120	1		12.80)	3/4"	1	2	12	20	CB	20				
HP-1	HEA TPUMP OUTDOOR UNIT	42 MCA	240	1		33.60)	3/4"	1	2	6	60	CB	60				
NOTES: 1. NON- 2. FUSE 3. BREA 4. MAN 5. MAG	NOTES: A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 26 1. NON-FUSED DISCONNECT SWITCH A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 26 2. FUSED DISCONNECT SWITCH B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING 3. BREAKER IN ENCLOSURE CONNECTION UNDER DIVISION 26. 4. MANUAL STARTER W/THERMAL OVERLOAD C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND 5. MAGNETIC STARTER CONNECTED UNDER DIVISION 26.																	

- 6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION 7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
- 8. MAGNETIC STARTER/BREAKER COMBINATION
- 9. VARIABLE FREQUENCY DRIVE 10. REDUCED VOL TAGE STARTER
- 11. DIRECT CONNECTION 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
- 13. TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE 14. SOLID STATE SOFT STARTER

CB = CIRCUIT BREAKER - THERMAL MAGNETIC CKW = CHILLER KILOWATTS

LARGER THAN PHASE CONDUCTOR.

	LIGHT FIXTURE GENERAL NOTES								
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D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE

	ELEC	TRIC	AL SYN	ABOL S	SCHEDULE			Lc	ot 14 Mountain House
1. SEE FI 2. HEIGHT 3. REFER	XTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAG MEASURED TO CENTER LINE OF THE BOX FROM TH TO DRAWINGS FOR DIRECTIONAL ARROWS.	GE. IE FINISH FI	LOOR.	7. PROVIE 8. DOUBL 9. COORD	DE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED. E ARROWS DENOTE A DOUBLE FACE UNIT. DINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATI	ONS FOR H	EIGHT.		
4. SUBSC 5. NEMA 6. HEIGHT	RIPT KEYS SWITCH TO FIXTURES CONTROLLED. TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). MEASURED TO TOP OF THE BOX FROM FINISHED F	USE 'HD' 4 LOOR.	480 V.	10. SUBSC 11. HEIGHT 12. COORD	RIPT DENOTES NEMA CONFIGURATION. MEASURED TO BOTTOM OF THE BOX FROM FINISH DINATE WITH DOOR HARDWARE SUPPLIER.	FLOOR.			
				* TYPICAL THIS SET	SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE UT OF DRAWINGS.	JSED IN			
STANDARD N	IOUNTING HEIGHT UNLESS OTHERWISE NOTED ON P	LANS MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES		Summit Powder Mountain Eden, Utah
>	ONE CIRCUIT, HOME RUN TO PANEL				CLOCK OUTLET	+7'-6"	8.	MacKay-Lyons Sweetapple	
	THREE CIRCUIT, HOME RUN TO PANEL			E F	POKE THRU – SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	Architects Limited	
	CONDUIT RUN CONCEALED IN WALL OR CEILING CONDUIT RUN CONCEALED IN FLOOR OR GROUND				FLIP-TOP BOX JUNCTION BOX ('F' IN FLOOR)	AS NOTED	9.	2188 Gottingen St. Halifax, Nova Scotia	
0	CONDUIT UP				MOTOR OUTLET	TO SUIT EQUIP.		Canada B3K 3B4	
•	CONDUIT DOWN CONDUIT STUB LOCATION	CAP CONDUIT			NON-FUSED DISCONNECT SWITCH	+4 [°] -0" +5'-0"	6. 5.	ph: (902) 429.1867 fax: (902) 429.6276	
S	CONDUIT/CIRCUIT CONTINUATION	AS NOTED		F s	FUSED DISCONNECT SWITCH MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+5'-0" +4'-0"	5. 6.		
0	CEILING LIGHT FIXTURE	CEILING	1.		MAGNETIC STARTER	+5'-0"	7.		
ю D	WALL LIGHT FIXTURE RECESSED DOWNLIGHT FIXTURE	AS NOTED	1. 1.		MAGNETIC STARTER / DISCONNECT COMBINATION VARIABLE FREQUENCY DRIVE	+5'-0" +6'-6"			
	RECESSED WALL-WASH FIXTURE		1.		PANEL BOARD	TOP AT +6'-0"			
	EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED		TELEPHONE TERMINAL BOARD				
• -	AREA LIGHT POLE AND FIXTURE FLOOD OR TRACK FIXTURE	AS NOTED	SEE DIAGRAM		GROUND BUS BAR EQUIPMENT CABINET/RACK		CIRCUIT TO 120V		
	CEILING/WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.		BELL	+7'-6"			
\$~ \$ ³	THREE-WAY SWITCH	+4 -0 +4'-0"	4. 6. 6.	E	CHIME FIRE ALARM MANUAL STATION	+/'-6" +4'-0"	6.		
\$⁴ \$ ^ĸ	FOUR-WAY SWITCH	+4'-0" +4'-0"	6. 6.	H [H]CLG	FIRE ALARM SIGNAL HORN/STROBE	+8'-0" CEILING	6.		
→ \$ ^P	SWITCH WITH PILOT LIGHT	+4'-0"	6.	Цн	CONCEALED FIRE ALARM SIGNAL HORN/STROBE WALL	+8'-0"	6.		
\$ [₽] \$™	VARIABLE INTENSITY SWITCH TIMER SWITCH	+4'-0" +4'-0"	6. 6.	E [E]CLG	FIRE ALARM SIGNAL SPEAKER/STROBE CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE	+8'-0" CEILING	6.		
 \$ 	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	6.		CONCEALED FIRE ALARM SIGNAL SPEAKER/STROBE WALL	+8'-0"	6.		
⊡x ●	CONFIGURATION & CONTROL SEQUENCE) SEE DIAGRAM DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL ROOM CONTROLLERS)	+4 [·] -0" CEILING	d. See Diagram, Spec.	[S] [S]CLG	CONCEALED FIRE ALARM SIGNAL STROBE		0.		
H P	DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D=DIMMING AND DAY-LIGHT CONTROL) POWER PACK	+4'-0" ABOVE	SEE DIAGRAM, SPEC.	्र डि	CONCEALED FIRE ALARM SIGNAL STROBE WALL	+8'-0" +8'-0"	6. 6.		
® _x	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS, #E INDICATES EM ENABLED RC)	ABOVE CEILING	SEE DIAGRAM. SPEC.	B	FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+8'-0"/ CEILING	MOUNT AS PER. MAN		
(P) (R)	EMERGENCY LIGHTING CONTROL UNIT RECEPTACLE SWITCH PACK	ABOVE CEILING ABOVE CEILING	SEE DIAGRAM, SPEC. SPEC.	©v ©s	ASPIRATING SMOKE DETECTION SYSTEM SMOKE DETECTOR	CEILING CEILING	MOUNT AS PER. MAN		
	AUTOMATIC RELAY PACK	ABOVE CEILING	SEE DIAGRAM. SPEC.	© sc	SMOKE/CARBON MONOXIDE DETECTOR				
P	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A	0с 0н	HEAT DETECTOR	CEILING			
	DIGITAL DAYLIGHT SENSOR	CEILING +5'-0"	SEE DIAGRAM SPECIFICATION 2.		DUCT SMOKE DETECTOR		MTD. IN DUCT		
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9. 11.		DOOR HOLDER	AS NOTED			
-⊖ -⊖u	SIMPLEX RECEPTACLE WITH USB OUTLET	AS NOTED +16" OR AS NOTED	9. 11. 9. 11.	Fs Ts	FLOW SWITCH TAMPER SWITCH				
		+16" OR AS NOTED +16" OR	9. 11.		WATER FLOOD INDICATOR				
-₽u =©	DUPLEX RECEPTACLE WITH USB OUTLET	AS NOTED +16" OR AS NOTED	9. 11. 9. 11.	R	O.S. & Y. VALVE FIRE ALARM RELAY OR SECURITY RELAY		SEE DIAGRAM		
⊕ _A ⊕ w	DUPLEX RECEPTACLE		9. SEE DIAGRAM		FIRE ALARM CONTROL MODULE				
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.	TWZ	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR PANEL	+4'-0"	6.		
⊒ ⊕ ⊕	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	AS NOTED +16" OR AS NOTED	9. 11. 9. 11.		TWO-WAY COMMUNICATION CALL STATION DURESS PUSHBUTTON	+4'-0" +4'-0"	6. 6.		
- ● -∰	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED +16" OR	9. 11.		SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	MOUNT AS PER. MAN		
	GROUND FAULT INTERRUPTER FOURPLEX RECEPTACLE	AS NOTED +16" OR AS NOTED	9. 11.		MAGNETIC SHEAR LOCK				
 _€	FOURPLEX RECEPTACLE EMERGENCY POWER (RED) TVSS PROTECTED RECEPTACLE	AS NOTED +16" OR AS NOTED	9. 11. 9. 11.		SECURITY SYSTEM KEYED ACCESS SWITCH SECURITY SYSTEM KEYED PAD	+4'-0" +4'-0"	6. 6.		
	SPECIAL PURPOSE OUTLET	+16"OR AS NOTED	10. WITH CAP. 11.		INFRARED SENSOR	AS NOTED	MOUNT AS PER MAN		
	CORD REEL		SEE DIAGRAM	P	SECURITY SYSTEM POP-IT		MOUNT AS PER. MAN		
	TOMBSTONE RECEPTACLE PLUGMOLD	+46" OR			GLASS BREAK DETECTOR ELECTRIC DOOR STRIKE	CEILING	12.		
	TELEVISION OUTLET	+16" OR AS NOTED	11.		ELECTRIC DOOR LOCK		12.		
©P	FOWER FOLE FLAT PANEL DISPLAY WALL BOX, TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM & SPEC. 26 2726		ACCESS CONTROL STSTEM, REQUEST TO EXIT	+4'-0"	6.		
©	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING +16" OR	SEE DIAGRAM AND SPEC. 9. 11.		ACCESS CONTROL BIOMETRIC READER	+4'-0" AS NOTED	6. SEE DIAGRAM. SPEC.		
	DATA OUTLET W/(2) CABLES	+16" OR AS NOTED +16" OP	9. 11.		DOOR POSITION INDICATING SWITCH				
	DATA OUTLET W/(3) CABLES	AS NOTED +16" OR AS NOTED	9. 11.		EQUIPMENT NUMBER				
◆	AV DATA OUTLET WIRELESS ACCESS POINT. ONF CARLE	+16"OR AS NOTED CEILING	9. 11. 13.	842 X	ARCHITECTURAL ROOM NUMBER DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE				
×	CALL SWITCH	+4'-0"	6.						
				IN	DEX OF ELECTRICAL DF	RAWIN	GS		
				E000	SCHEDULES AND NOTES				
				E100	ELECTRICAL SITE PLAN				
				E200 E201	LIGHTING PLAN GROUND LEVEL LIGHTING PLAN LOWER LEVEL				
				E202 E203	LIGHTING PLAN MAIN LEVEL LIGHTING PLAN UPPER LEVEL				
				E300	POWER PLAN GROUND LEVEL				
				E302 E303	POWER PLAN MAIN LEVEL POWER PLAN UPPER LEVEL				
				E400	ONE-LINE DIAGRAM AND PANELBOARD S	CHEDULE	s	01 Issued for Coordina No. Description	ation 2018.05.08
				E500	ELECTRICAL DETAILS			Revision:	
							J	NOTES: COPYRIGHT RELATED T	o the use of this
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								Sweetapple Architects Ltd. approval for materials and from instructions provided	and to seek prior written workmanship which deviates by the Architect.
								ENGINEER'S REQUIREM	ENTS AND APPROVALS:

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drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada. SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer f approval prior to manufacture of prefabricated elem

All dimensions must be verified on site. Do not scale

schedule and Notes

of the building.

scale: SEE GRAPH date: 2018-05-11 drawn: BNA

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GENERAL SHEET NOTES

. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 2. CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

SHEET KEYNOTES

 $\langle 1 \rangle$ mount wall mounted light fixture we above door opening. $\langle 2 \rangle$ Type ws recessed step light shall be mounted +18" above finished floor and/or step. $\boxed{3}$ mount light fixture in toe kick.

MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4

ph: (902) 429.1867 fax: (902) 429.6276

Lot 14 Mountain House

Summit Powder Mountain

01	Issued for Coordination	2018.05.08
No.	Description	Date
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DIMENSIONS: All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Arabitost. All minimum dimensions are to consult Architect. All minimum dimensions are to comply with the National Building Code of Canada. SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated element

of the building. Sround Floor

E200

scale: SEE GRAPH date: 2018-05-11

drawn: BNA chk'd: CF

LIGHTING PLAN GROUND FLOOR

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GENERAL SHEET NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 2. CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

SHEET KEYNOTES

 $\langle 1 \rangle$ mount wall mounted light fixture we above door opening. $\langle 2 \rangle$ Type ws recessed step light shall be mounted +18" above finished floor and/or step. $\boxed{3}$ mount light fixture in toe kick.

MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276

Lot 14 Mountain House

Summit Powder Mountain Eden

LIGHTING PLAN LOWER FLOOR 1/4" = 1'=0" <u>0 2' 4'</u> 0 2' 4'

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SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Lighting Plar Lower Floor scale: SEE GRAPH date: 2018-05-11 drawn: BNA E201 chk'd: CF





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GENERAL SHEET NOTES

CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 2. CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

- SHEET KEYNOTES $\langle 1 \rangle$ wall mount above door opening. $\langle 2 \rangle$ LIGHT FIXTURE MOUNTED IN TOE KICK. $\langle 3 \rangle$ LOCATE ABOVE WALL FOR INDIRECT ILLUMINATION ONTO CEILING.
- $\langle 4
 angle$ under counter light fixture mount to face of overhang $\langle 5 \rangle$ MOUNT +18" ABOVE FINISH FLOOR OR STEP.
- $\left< \frac{6}{6} \right>$ full mirror lights to border the edges of, and be mounted on, the mirror

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Lot 14 Mountain House

Summit Powder Moun

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of the building.

nginting Pla. lair Floor scale: SEE GRAPH date: 2018-05-11 E202 drawn: BNA chk'd: CF

LIGHTING PLAN MAIN FLOOR 0 2' 4'





kody; May 30, 2018 – 3:13pm 2018\115\DRAW\18115-E203.dwg



GENERAL SHEET NOTES

 CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

SHEET KEYNOTES

1 MOUNT +18" ABOVE FINISH FLOOR OR STEP.

 $\langle 2 \rangle$ SURFACE OR PENDANT MOUNT.



Lot 14 Mountain House

01	Issued for Coordination	2018.05.08

NOTES:

DIMENSIONS:

of the building.

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Lighting Plan Upper Floor scale: SEE GRAPH date: 2018-05-11 drawn: BNA

NG	PLAN	UPPER	FLOOR	
=0"		0	2'4'	

A xhibit Ш



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GENERAL SHEET NOTES

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Summit Powder Mountain Eden MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276

Issued for Coordination 2018.05.08 Description Date

NOTES:

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of the building.

Power Plai Found Floor scale: SEE GRAPH date: 2018-05-11 E300 drawn: BNA chk'd: CF

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GENERAL SHEET NOTES

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Power Plan Lower Floor scale: SEE GRAPH date: 2018-05-11 drawn: BNA E301 chk'd: CF



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0 2' 4'

GENERAL SHEET NOTES

CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 2. CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.



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of the building.

Power Plar /lain Floor scale: SEE GRAPH date: 2018-05-11 drawn: BNA E302 chk'd: CF

Exhibit A



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GENERAL SHEET NOTES

 CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 CONSULT ALL ARCHITECTURAL PLANS, ELEVATIONS & SECTIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

SHEET KEYNOTES

1 TELE/COMM HEAD END EQUIPMENT



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Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated element

E303

Date

Description

NOTES:

DRAWING:

practice.

DIMENSIONS:

SHOP DRAWINGS:

Power Plar

Jpper

scale: SEE GRAPH date: 2018-05-11

drawn: BNA chk'd: CF

Floor

of the building.

PLAN	UPPER	FLOO	R
	0	2'	4'

A Exhibit







→ UTILITY 120/240V 1Φ

Lot 14 Mountain House

Summit Powder Mo

MacKay-Lyons Sweetapple

Architects Limited

2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4

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6 Exterior Assemblies A001 NTS

	Т	Trim	No	rth Wall	East	Wall	Sou	th Wall	We	st Wall	1	Floors	Ce	eiling	Remarks
	Material	Finish	Material	Finish	Material	Finish	South	Finish	Material	Finish	Material	Finish	Material	Finish	
Ground Level															
Red 1	WD	PTC2	GWB	PTC1	GWB	PTC1	GW/B/GL	Z PTC1	GWB	PTC1	WD / CONC	WD3 / SEALED	GWB	PTC3	Price conc. on floor as ontion
Bed 2	WD	PTC2	GWB	PTC1	GWB	PTC1	GWB/GL	Z PTC1	GWB	PTC1	WD / CONC	WD3 / SEALED	GWB	PTC3	Price conc. on floor as option
Beth 1		PTC2	GWB-W		GWB-W		GWB-W		GWB-W				GWB-W	PTC3	Price conc. on floor as option
Hall 1	WD	PTC2	GWB	PTC1	GWB	PTC1	GWB-W	PTC1	GWB	PTC1		WD3 / SEALED	GWB	PTC3	Price conc. on floor as option.
Ski Storage		PTC2	GWB	PTC1	GWB	PTC1	GWB	PTC1	GWB	PTC1			GWB	PTC3	Price conc. on floor as option.
Stair 1		PTC2	GWB	PTC1	GWB	PTC1	STI	STL2	GWB	PTC1	STI	STI 1		N/A	
		1102	0110		0000										
	–	Trim	No	rth Wall	East	Wall	Sou	th Wall	Wo	et Wall	1	Floore	<u> </u>	iling	Pomarks
	Material	Finich	Material	Finich	Material	Finish	South	Finish	Matorial	Finich	Matorial	Finish	Matorial	Finish	Relliars
	Material	1111511	Material	17111511	Material		South	1111511	Wateria	1111511	Iviaterial	FILISH	IVIALEITAI		
Lower Level															
Pod 2		DTCO		DTC1	CIA/B	DTC1				DTC1				DTC2	Drice cone on floor op ontion
Bed 3		PTC2	GWB		GWB		GWD/GL		GWB				GVVD	PTC3	Price conc. on floor as option.
Bed 4		PTC2	GWB		GWB		GWB/GL		GWB				GWB	PTC3	Price conc. on floor as option.
Bath 2		PTC2	GWB-W	DTO	GWB-W	DTO	GVVB-VV	DTC1	GWB-W	DTCI		TILE3 / CONC	GVVB-VV	PTC3	Price conc. on floor as option.
Hall Z		PTC2	GWB		GWB	PICI			GWB	PTC1				PTC3	Price conc. on hoor as option.
Stair 2		P102	GWB	PICI	GWB	PICI	SIL	SILZ	GWB	PICI	SIL	SILI	N/A	IN/A	
[_		No	th Wall	East Wall South Wall					Calling		Domorko			
	Matarial	Tim	Matarial		Matarial	Finich	South	Finich	Matarial	St Wall	Motorial	Finich	Motorial	Finich	Remarks
Main Laval	Material	FILISI	Material	FILISI	Material	FILISI	Souur	FILISI	Material	FILISI	Material	FILIISII	wateria	FILISI	
Dontry		DTC2		DTC1		DTC1		DTC1		DTC1			CWP	DTC2	
Fanury Kitobon					GVVD										
Receiving															
Receiving															
			GVVB-VV		GVVB-VV					DTC1			GVVB-VV	PTC3	
Laundry Maatar Dath			GVVB		GWB		GVVB-VV		GWB				GVVB	PTC3	
Master Bath	GVVB-VV		GVVB-VV		GVVB-VV/C							IILE2	GVVB-VV	P103	
Living												WD3			
Dining												WD3			
Foyer		PTC2	GWB		GWB				GWB				GWB	PTC3	
Meeter Red			GWB											P103	
Stoir 2															aludiant @ apiling
Stair 3		P162	GWB	PICI	GWB	PICI	SIL	SILZ	GWB	PICI	SIL	SILI	GLZ	IN/A	
		rim	NO	rth Wall	East		Sou		We	st wall	h h h h h h h h h h h h h h h h h h h	-loors	Ce	elling	Remarks
	Material	Finish	Material	Finish	Material	Finish	South	Finish	Material	Finish	Material	Finish	Material	Finish	
Upper Level										_					
								BFC i		BF C :			0.115		
Mud	WD	PTC2	GWB	PTC1	GWB	PTC1	GWB-W	PTC1	GWB	PTC1	CONC	SEALED	GWB	PTC3	
Garage	WD	PTC2	GWB	PTC1	GWB	PTC1	GWB-W	PTC1	GWB	PTC1	CONC	SEALED	GWB	PTC3	
	1	1	1	1	1	1	1		1	1	1	1	1	1	1

Legend N/A GWB GWB-W CONC TILE WD GLZ STL

not applicable gypsum wall board per spec. waterproof sheathing as per spec. concrete ceramic tile wood glazing

Finish Types Paint

Tile

PTC1 - Benjamin Moore Decorators White - Egg Shell Finish PTC2 - Benjamin Moore Decorators White - Semi Gloss Finish PTC3 - Benjamin Moore Decorators White - Flat Finish (Ceilings Only)

TILE1 - white subway tile 4x16

TILE2 - white marble tile 12x24 TILE3 - white floor tile TBD

TILE4 - slate floor tile TBD

SEALED - sealed concrete

Wood Cladding WD1 - 1x2 red cedar shiplap, clear sealant, satin

Concrete Steel

STL1 - open bar grating stair treads/landings, weathering steel finish, clear sealant STL2 - wood screen; steel angle frame, weathering steel finish, clear sealant; 1x2 horizontal cedar board infill

5 Room Finish Schedule NTS

steel

SEE WALL SECTIONS A500 SERIES

1. "North" is top of drawing page for wall designations 2. All wood surface cladding in bathrooms + mudroom

to receive clear sealant, satin

Notes

WD2 - 1x2 red cedar gapped boards, clear sealant, satin WD3 - 1x6 engineered hardwood flooring on concrete topping, prefinished



CERAMIC TILE DOUBLE DIAMETER DIMENSIONS DOWN DOOR DRAWING EACH ELEVATION ELECTRICAL ELEVATOR / ELEVATION EQUAL FACE OF CONCRETE FACE OF WOOD FRAMING FOUNDATION GAUGE GALVANIZED GYPSUM WALL BOARD HOLLOW CORE HIGH HOLLOW METAL HIGH POINT HEATING, VENTILATING, HVAC AND AIR CONDITIONING IN LIEU OF INSULATED INTERIOR LOW MAXIMUM

Abbreviations NTS



AREA DRAIN	MO	MASONRY OPENING
ADJACENT	MECH	MECHANICAL
ABOVE FINISHED FLOOR	MEMBR	MEMBRANE
ALUMINUM	MIN	MINIMUM
ANODIZED		
BASEMENT	MRGWB	MOISTURE-RESISTANT
BEYOND		GYPSUM WALL BOARD
BOTTOM	MTL	METAL
BETWEEN	NIC	NOT IN CONTRACT
CHANNEL	NOM	NOMINAL
CONTROL JOINT	OC	ON CENTER
CEILING	OH	OPPOSITE HAND
CLEAR	OZ	OUNCE
CONCRETE MASONRY UNIT	PCC	PRE-CAST CONCRETE
CENTERLINE OF WOOD FRAMING	PLYD	PLYWOOD
COLUMN	PT	PRESSURE TREATED
CONCRETE	PTD	PAINTED
CONTINUOUS	PVC	POLYVINYL CHLORIDE
CARPET	RCP	REFLECTED CEILING PLAN
CERAMIC TILE	RD	ROOF DRAIN
DOUBLE	REQD	REQUIRED
DIAMETER	REV	REVERSE
DIMENSIONS	RM	ROOM
DOWN	SIM	SIMILAR
DOOR	SPEC	SPECIFIED OR SPECIFICATION
DRAWING	SPK	SPRINKLER
EACH	ST STL	STAINLESS STEEL
ELEVATION	STC	SOUND TRANSMISSION COEFFICIENT
ELECTRICAL	STL	STEEL
ELEVATOR / ELEVATION	STRUCT	STRUCTURAL
EQUAL	TELE	TELEPHONE
FACE OF CONCRETE	TLT	TOILET
FACE OF WOOD FRAMING	ТО	TOP OF
FOUNDATION	TOC	TOP OF CONCRETE
GAUGE	TOS	TOP OF STEEL
GALVANIZED	TP	TOILET PAPER DISPENSER
GYPSUM WALL BOARD	T/D	TELEPHONE/DATA
HOLLOW CORE	TYP	TYPICAL
HIGH	UON	UNLESS OTHERWISE NOTED
HOLLOW METAL	U/S	UNDERSIDE
HIGH POINT	VIF	VERIFY IN FIELD
HEATING, VENTILATING,	VP	VISION PANEL
AND AIR CONDITIONING	TYP	TYPICAL
IN LIEU OF	VIF	VERIFY IN FIELD
INSULATED	W/	WITH
INTERIOR	WD	WOOD
LOW	FOC	FACE OF CONCRETE
MAXIMUM	FOF	FACE OF FRAME

			Summit Powder Mour Eden, I true
	MacKay-Lyons Sweetapple Architects Limited		north
Н	2188 Gottingen St. lalifax, Nova Scotia Canada B3K 3B4		construction north
	ph: (902) 429.1867 fax: (902) 429.6276		
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drawn: IF chk'd: BML

Lot 14 Mountain House

hibit		
		extent of west roof of
		chir
home site:	lot 14R	
district:	mountain house	
	7.20 auto	
building envelop avg. slope:	30.20%	

 1
 Site Plan

 A100
 Scale 1/8" = 1'-0"



	Lot 14 Mountain House
8720	
	Summit Powder Mountain
	Eden, Utah true
	MacKay-Lyons Sweetapple
	Architects Limited
	2188 Gottingen St. Halifax Nova Soctia
	Canada B3K 3B4
	ph: (902) 429.1867 fax: (902) 429.6276
NOTE:	
see civil drawings for additional site	
information including site utilities,	
grading and drainage.	
(see A/UU for additional information)	
extent of north roof overhang	
+	
Jest En [
garage +	
totaliabt above otoire	
Skyngin above stalls	
- column grid below	
house c	
concrete core below	
extent of east roof overhand	
CALCILL OF QUST FOOT OVERTICING	
line of tree crown setback	
(10'-0" setback from building)	
570	
line of defensible space	
(30'-0" setback from building)	
— roof overhang setback \	
(2'-0" setback from buildable area)	
property line (east)	
0660	
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	ARCHITECT'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written
	approval for materials and workmanship which deviates from instructions provided by the Architect.
50	ENGINEER'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written
	approval for materials and workmanship which deviates from instructions provided by the Engineer.
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	uie work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.
	All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the
	absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.
	SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for
	approval prior to manufacture of prefabricated elements of the building.
	Site Plan
	scale: 1/8" = 1'-0" date: 2018-02-26
	drawn: IF ATUU chk'd: BML



			Lot 14 Mountain House	
			Summit Powder Mountain	
			Eden, Utah	
			Sweetapple Architects Limited	
			2188 Gottingen St.	
			Halinax, Nova Scotia Canada B3K 3B4	
			ph: (902) 429.1867 fax: (902) 429.6276	
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	SQUARE FOOTAGES (ANSI	Z765-2003)	of the building.]
	GROUND FLOOR LOWER FLOOR MAIN FLOOR	725 725 2600	Floor Plans	
	TOTAL	4100		
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			date: 2018-02-20 drawn: MB	
			chk'd: BML	1



			Summit Powder Mountain Eden, Utah
			MacKay-Lyons Sweetapple Architects
			Limited
			2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4
			ph: (902) 429.1867 fax: (902) 429.6276
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				Summit Powder Mountain
			MacKay-Lyons	Eden, Utah
			Architects Limited	
		ŀ	2188 Gottingen St. Ialifax, Nova Scotia	
			Canada B3K 3B4	
			fax: (902) 429.6276	
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14'	4'		16'		4'	<u>96'</u> 12'	
t						ENTRY	
						BRIDGE see A700 for additional - bridge information floor finish; see room finish - schedule (A001) operable screen; vertical - apped wood boards to align w/ exterior wood cladding wood screen; gapped wood - boards on steel angle frame	
exterior flat roof above pantry			fireplace chimney	living			



				Lot 14 Mountain House
				Summit Powder Mountain Eden, Utah
			Ma	acKay-Lyons Sweetapple
				Architects Limited
			2188 0	Gottingen St.
			Halifax, Canad	Nova Scotia la B3K 3B4
			ph: (90 fax: (90)2) 429.1867)2) 429.6276
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	LOWER FLOOR MAIN FLOOR	725 2600	Floo	Frians
	TOTAL	4100		
	GARAGE DECK	660 245		
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Exhibit A		4'	
	indication of ro overhang beyo	oof — nd	
<u>∑ 13'-9"</u>			
∑ <u>9'-0"</u>			
∑ <u>3'-0"</u>			
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<u>√</u> <u>20'-0"</u>			
<u>2 Exterior Elevation -</u> North A300 Scale 1/4" = 1'-0"	1		2)
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	indication of ro	of —	
▽ 13'-9"			
<u> 9'-0" 9'-0" </u>			
∑ <u>1'-6"</u>			
∑ <u>-3'-0"</u>			circular brace; si
✓ -11'-0" ✓ -12'-0"			plate w/ weather steel finish
17' €"	14 7		
∑ - <u>20'-0"</u>		·	
Exterior Elevation - South			

	3	4		5	6	96'	7
	4 '		8	4		12'	
ular brace; steel							
	┿╇┯╼╴╴╴╴ ╎						

	6 5	4 3	2 1		Lot 14 Mountain House
on of	4' B bridge		14' 4'		Summit Powder Mountain Eden, Utah MacKay-Lyons Sweetapple Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4 ph: (902) 429.1867 fax: (902) 429.6276
				GROUND LINE AT NORTH FACE OF GARAGE	1 1x4 horizontal western red cedar boards 2 1x8 vertical western red cedar boards 3 1x8 horizontal western red cedar boards 4 1x4 horizontal western red cedar shiplap 5 aluminum flashing; to match window finish 6 1x2 horizontal western red cedar shiplap 7 horizontal 8" board-formed concrete
				14	8 glazing system - see window/door schedule 9 sliding glazing system - see window/door schedule 10 skylight system - see window/door schedule 11 tempered glass guard 12 sliding window shutter; 1x4 horizontal western red cedar boards on steel angle frame 13 bi-fold garage door clad w/ 1x4 horizontal western red cedar shiplap; align w/ exterior siding 14 weathering steel structure 15 weathering steel chimney 16 bridge; open bar grating on steel finish
	7 8 7 4'	9 10 16' 4'	11 (12) 14' 4'		
			r		
				OROUND LINE AT NORTH FACE OF GARAGE 7 7 7 7 8	02 DD Issued for Pricing 2018.05.30 01 Issued for Coordination 2018.05.08 No. Description Date Revision: NOTES: COPYRIGHT RELATED TO THE USE OF THIS DRAWING: The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice. ARCHITECT'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect. ENGINEER'S REQUIREMENTS AND APPROVALS: It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer. AUTHORITIES' REQUIREMENTS AND APPROVALS: All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities. DIMENSIONS: All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to
					Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

 $\underbrace{1}_{\text{A301}} \underbrace{\text{Exterior Elevation - Eas}}_{\text{Scale 1/4" = 1'-0"}}$

	Lot 14 Mountain Hou
	Summit Powder Mour Eden, V
	Sweetapple Architects
	Limited 2188 Gottingen St.
	Halifax, Nova Scotia Canada B3K 3B4
	ph: (902) 429.1867 fax: (902) 429.6276
	LEGEND
	1 1x4 horizontal western red cedar boards
	2 1x8 vertical western red cedar boards
	3 1x8 horizontal western red
	4 1x4 horizontal western red
X BUILDING HEICU	cedar shiplap
	5 aluminum flashing; to match window finish
	6 1x2 horizontal western red cedar shiplap
	7 horizontal 8" board-formed
	8 glazing system - see
	window/door schedule
	9 sliding glazing system - see window/door schedule
	10 skylight system - see
	11 tempered glass guard
	12 sliding window shutter; 1x4
	horizontal western red cedar boards on steel angle frame
	13 bi-fold garage door clad w/ 1 horizontal western red cedar
	weathering steel structure
G BUILDING SLOPE	15 weathering steel chimney
	16 bridge; open bar grating on
	steel structure; weathering steel finish
	_
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	or the building.
	Exterior Elevations
	scale: 1/4" = 1'-0"
	date: 2018-02-20 drawn: IF A301

			Summit Powder Mc Eder
		MacKay-Lyons Sweetapple	
		Architects Limited	
	2 Hal C	188 Gottingen St. ifax, Nova Scotia Canada B3K 3B4	
	pl	h: (902) 429.1867 x [.] (902) 429 6276	
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	Lot 14 Mountain Ho
	Summit Powder M Ede
	Mackay-Lyons Sweetapple Architects Limited
	2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4
	ph: (902) 429.1867 fax: (902) 429.6276
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	Submit shop drawings to the Architect and Engine approval prior to manufacture of prefabricated eler of the building.
BUILDING SLOPE	Building
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	drawn: IF 74401

Exhibit A					
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	A	rchitects Limited
	2188 Gott Halifax, No Canada	ingen St. va Scotia B3K 3B4
	ph: (902) 4	429.1867
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]
	Lot 14 Mountain House
	Summit Powder Mountain Eden, Utah
	MacKay-Lyons
	Sweetapple
	Limited
	2188 Gottingen St. Halifax. Nova Scotia
	Canada B3K 3B4
	ph: (902) 429.1867 fax: (902) 429 6276
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		Lot 14 Mountain House
		Summit Powrier Mountain
		Eden, Utah
		Sweetapple
		Limited
		2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4
		ph: (902) 429.1867 fax: (902) 429 6276
		iax. (302) +23.0270
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		Summit Powder Mountain Eden, Utah
	MacKay-Lyons Sweetapple Architects	
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I	Canada B3K 3B4	
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scale: 1/2" = 1'-0" date: 2018-04-22

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Summit Powder Mountain Eden, Utah MacKay-Lyons
Sweetapple Architects Limited
2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4
ph: (902) 429.1867 fax: (902) 429.6276
gypsum wallboard (painted) 2 2" horizontal red cedar shiplap
 2 nonzontal red cedar shiptap (clear finish) 2" red cedar gapped boards
(clear finish) 4 tile 1 as per finish schedule
5 tile 2 as per finish schedule
6 engineered hardwood flooring on concrete topping (heated) - typical
7 exposed concrete topping (heated)
8 glazing system - see window/door schedule
NOTE: all dimensions to be verified in field
<u>▼ 8'-0"</u>
Typical installation heights and alignments
vertically align switches/outlets by their centre line
above counter
3'-1" 4' 3'-1" 4'
Typical installation heights; provide backing as needed
01 DD Issued for Pricing 2018.05.30 No. Description Date Revision: Contract of the second secon
NOTES: COPYRIGHT RELATED TO THE USE OF THIS DRAWING: The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.
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Millwork - Foyer / Media
scale: 1/2" = 1'-0" date: 2018-04-24 drawn: IF chk'd: BML

Lot 14 Mountain House

A Exhibit ,

xhibit A	
Expi	

_____-12'-0" top of ceiling _______-13'-0" top of door BED 1 _______-20'-0" top of finished floor

(C)

(E)

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MacKay-Lyons	Summit Powder Mountain Eden, Utah
Sweetapple Architects Limited	
2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4	
ph: (902) 429.1867 fax: (902) 429.6276	
LEGEND	
1 gypsum wallboa	rd (painted)
2 2" horizontal red (clear finish)	cedar shiplap
 (clear finish) tile 1 as per finis 	h schedule
5 tile 2 as per finis	h schedule
6 engineered hard on concrete topp	wood flooring bing (heated) -
typical 7 exposed concret (heated)	e topping
8 glazing system - window/door sch	see nedule
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Millwork- Garage / Mudroom	
date: 2018-04-24 drawn: IF	A606

Lot 14 Mountain House

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Lot 14 Mountain House

Summit Powder Mounta Eden, Ut MacKay-Lyons Sweetapple

Architects Limited 2188 Gottingen St. Halifax, Nova Scotia Canada B3K 3B4

ph: (902) 429.1867 fax: (902) 429.6276

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the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

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DIMENSIONS: All dimensions must be verified on site. Do not scale of drawings. Plans take precedent over elevations. In th absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada. SHOP DRAWINGS: Submit shop drawings to the Architect and Engineer for pproval prior to manufacture of prefabricated element

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ık'd:	BML	

Exhibit B

Intermountain GeoEnvironmental Services, Inc. 12429 South 300 East, Suite 100, Draper, Utah 84120 Phone (801) 748-4044 ~ F: (801) 748-4045 www.igesinc.com

GEOTECHNICAL AND GEOLOGIC HAZARD INVESTIGATION Proposed Hastings Residence Lot 14R of Summit Eden Phase 1A Summit Powder Mountain Resort Weber County, Utah

IGES Project No. 02693-001

March 8, 2018

Prepared for:

Ms. Amy Dee

Intermountain GeoEnvironmental Services, Inc. 12429 South 300 East, Suite 100, Draper, Utah 84120 ~ T: (801) 748-4044 ~ F: (801) 748-4045

Prepared for:

Ms. Amy Dee 2140 Prince Way Reno, Nevada 00509

Geotechnical and Geologic Hazard Investigation Proposed Hastings Residence Lot 14R of Summit Eden Phase 1A Summit Powder Mountain Resort Weber County, Utah

IGES Project No. 02693-001

David A. Glass, P.E. Senior Geotechnical Engineer

Peter E. Doumit, P.G., C.P.G. Senior Geologist

IGES, Inc.

12429 South 300 East, Suite 100 Draper, Utah 84120 (801) 748-4044

March 8, 2018

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE OF WORK

This report presents the results of a geotechnical and geologic hazard investigation conducted for Lot 14R of Summit Eden Phase 1A, part of the currently on-going expansion at the Summit Powder Mountain Ski Resort in Weber County. The purpose of our investigation was to assess the nature and engineering properties of the subsurface soils at the project site and to provide recommendations for the design and construction of foundations, grading, and drainage. In addition, geologic hazards have been assessed for the property. The scope of work completed for this study included literature review, site reconnaissance, subsurface exploration, engineering analyses, and preparation of this report.

Our services were performed in accordance with our proposal dated November 3, 2017, and your signed authorization. The recommendations presented in this report are subject to the limitations presented in the "Limitations" section of this report (Section 6.1).

1.2 PROJECT DESCRIPTION

Our understanding of the project is based primarily on the preliminary site plan prepared by MacKay-Lyons Sweetapple Architects (MLS) dated February 2, 2018, plus our previous involvement with the Summit Powder Mountain Resort project, which included two geotechnical investigations for the greater 200-acre Powder Mountain Resort expansion project (IGES, 2012a and 2012b) and subsequent geotechnical consulting for several other aspects of the project.

The Summit Powder Mountain Resort expansion project is located southeast of SR-158 (Powder Mountain Road), south of previously developed portions of Powder Mountain Resort, in unincorporated Weber County, Utah. The Summit Powder Mountain project area is accessed by Powder Ridge Road. Lot 14R is located within Phase 1A of the Powder Mountain expansion project (Summit Eden), on the south side of Horizon Run Road (Figure A-1 in Appendix A, *Site Vicinity Map*). The roughly 4.3-acre residential lot has an approximate buildable area (building envelope) of 15,300 square feet. The proposed improvements will include a single-family home with a structural footprint of approximately 3,900 sqft, with associated improvements such as utilities and hardscape. We anticipate the new home will be a two- to three-level structure, the lowest story consisting of a partial walk-out basement, founded on conventional spread footings. Foundation loads are expected to be on the order of 1,500 psf or less. The development will likely include retaining walls or rockeries to accommodate the natural ~3.5H:1V gradient of the lot.

2.0 METHODS OF STUDY

2.1 LITERATURE REVIEW

2.1.1 Geotechnical

The earliest geotechnical report for the area is by AMEC (2001), which was a reconnaissancelevel geotechnical and geologic hazard study. IGES later completed a geotechnical investigation for the Powder Mountain Resort expansion in 2012 (2012a, 2012b). Our previous work included twenty-two test pits and one soil boring excavated at various locations across the 200-acre development; as a part of this current study, the logs from relevant nearby test pits and other data from our reports were reviewed.

2.1.2 Geological

Several pertinent publications were reviewed as part of this assessment. Sorensen and Crittenden, Jr. (1979) provides 1:24,000 scale geologic mapping of the Huntsville Quadrangle, and Crittenden, Jr. (1972) provides 1:24,000 scale geologic mapping of the Brown's Hole Quadrangle (Figure A-2, Regional Geology Map 1). Coogan and King (2001) provide more recent geologic mapping of the area, but at a 1:100,000 scale. Western Geologic (2012) conducted a reconnaissance-level geologic hazard study for the greater 200-acre Powder Mountain expansion project, including the Lot 14 area (Figure A-3, Regional Geology Map 2). The Western Geologic (2012) study modified some of the potential landslide hazard boundaries that had previously been mapped at a regional scale (1:100,000) by Coogan and King (2001) and Elliott and Harty (2010). An updated Coogan and King (2016) regional geologic map (1:62,500 scale) provides the most recent published geologic mapping that covers the project area (Figure A-4, Regional Geology Map 3). The corresponding United States Geological Survey (USGS) topographic maps for the Huntsville and Brown's Hole Quadrangles (2014) provide physiographic and hydrologic data for the project area. Regional-scale geologic hazard maps pertaining to landslides (Elliott and Harty, 2010; Colton, 1991), faults (Christenson and Shaw, 2008a; USGS and Utah Geological Survey (UGS), 2006), debris-flows (Christenson and Shaw, 2008b), and liquefaction (Christenson and Shaw, 2008c; Anderson et al., 1994) that cover the project area were also reviewed. The Quaternary Fault and Fold Database (USGS and UGS, 2006), was reviewed to identify the location of proximal faults that have had associated Quaternary-aged displacement.

Stereo-paired aerial imagery for the project site and recent and historic Google Earth imagery was also reviewed to assist in the identification of potential adverse geologic conditions. The aerial photographs reviewed are documented in the *References* section of this report.

2.2 FIELD INVESTIGATION

Subsurface soils were investigated by excavating two test pits at representative locations across the property. The approximate location of the test pits are illustrated on the *Geotechnical & Local*

Geology Map (Figure A-5 in Appendix A). The soil types were visually logged at the time of our field work in general accordance with the *Unified Soil Classification System* (USCS). Soil classifications and descriptions are included on the test pit logs, Figures A-6 and A-7 in Appendix A. A key to USCS symbols and terminology is included as Figure A-8, and a key to physical rock properties is included as Figure A-9.

2.3 LABORATORY TESTING

Samples retrieved during the subsurface investigation were transported to the IGES laboratory for evaluation of engineering properties. Specific laboratory tests included:

- Atterberg Limits (ASTM D4318)
- Grain-Size Distribution (ASTM D6913)
- Fines Content (ASTM D1140)
- In situ Moisture Content (ASTM D7263)
- Direct Shear (ASTM D3080)

Results of the laboratory testing are discussed in this report and presented in Appendix B. Some test results, including moisture content, gradation, and Atterberg Limits, have been incorporated into the test pit logs (Figures A-6 and A-7).

3.0 GEOLOGIC CONDITIONS

3.1 GENERAL GEOLOGIC SETTING

The Lot 14R property is situated in the western portion of the northern Wasatch Mountains, approximately 4 miles north of Ogden Valley. The Wasatch Mountains contain a broad depositional history of thick Precambrian and Paleozoic sediments that have been subsequently modified by various tectonic episodes that have included thrusting, folding, intrusion, and volcanics, as well as scouring by glacial and fluvial processes (Stokes, 1987). The uplift of the Wasatch Mountains occurred relatively recently during the Late Tertiary Period (Miocene Epoch) between 12 and 17 million years ago (Milligan, 2000). Since uplift, the Wasatch Front has seen substantial modification due to such occurrences as movement along the Wasatch Fault and associated spurs, the development of the numerous canyons that empty into the current Salt Lake Valley and Utah Valley and their associated alluvial fans, erosion and deposition from Lake Bonneville, and localized mass-movement events (Hintze, 1988).

The Wasatch Mountains, as part of the Middle Rocky Mountains Province (Milligan, 2000), were uplifted as a fault block along the Wasatch Fault (Hintze, 1988). Ogden Valley itself is a faultbounded trough that was occupied by Lake Bonneville (Sorensen and Crittenden, Jr, 1979) before being cut through by the Ogden River and subsequently dammed to form the Pineview Reservoir.

The Wasatch Fault and its associated segments are part of an approximately 230-mile long zone of active normal faulting referred to as the Wasatch Fault Zone (WFZ), which has well-documented evidence of late Pleistocene and Holocene (though not historic) movement (Lund, 1990; Hintze, 1988). The faults associated with the WFZ are almost all normal faults, exhibiting block movement down to the west of the fault and up to the east. The WFZ is contained within a greater area of active seismic activity known as the Intermountain Seismic Belt (ISB), which runs approximately north-south from northwestern Montana, along the Wasatch Front of Utah, through southern Nevada, and into northern Arizona. In terms of earthquake risk and potential associated damage, the ISB ranks only second in North America to the San Andreas Fault Zone in California (Stokes, 1987).

The WFZ consists of a series of ten segments of the Wasatch Fault that each display different characteristics and past movement and are believed to have movement independent of one another (UGS, 1996). The Lot 14 property is located approximately 9.4 miles to the northeast of the Weber Segment of the Wasatch Fault, which is the closest documented Holocene-aged (active) fault to the property and trends north-south along the Wasatch Front (USGS and UGS, 2006).

3.2 SURFICIAL GEOLOGY FROM LITERATURE

According to Sorensen and Crittenden, Jr. (1979), the property is entirely underlain by undifferentiated Holocene-aged colluvium¹, slopewash, and landslide deposits, with the northern margin of the property mapped as being near the contact with the undivided Tertiary/Cretaceous Wasatch and Evanston Formations (TKwe), described as "unconsolidated pale-reddish-brown pebble, cobble, and boulder conglomerate, forms boulder-covered slopes. Clasts are mainly Precambrian quartzite and are tan, gray, or purple; matrix is mainly poorly consolidated sand and silt." This map forms the basemap for the *Regional Geology Map 1* (Figure A-2). Coogan and King (2001) produced a regional-scale geologic map that covered the property; this map shows the entire property to be underlain by undivided mass-movement deposits. Western Geologic (2012) identified a number of landslide deposits contained within the Powder Mountain Resort expansion area (Figure A-3). In this map, the entire property is shown to be underlain by deposits mapped as "mixed slope colluvium, shallow landslides, and talus." Finally, Coogan and King (2016) updated their 2001 map, which shows the property to be situated on landslide deposits (unit Qms), with the northern margin of the property at or adjacent to the contact with undivided landslide and colluvial deposits (unit Qmc) (Figure A-4).

3.3 HYDROLOGY

The USGS topographic maps for the Huntsville and Brown's Hole Quadrangles (2014) show that the Lot 14R project area is situated on a slope, with the topographic gradient down to the south towards a west-trending unnamed drainage locally known as Lefty's Canyon (see Figure A-1). No active or ephemeral stream drainages are found on the property, and no springs are known to occur on the property, though it is possible that springs may occur on various parts of the property during peak runoff.

Baseline groundwater depths for the Lot 14 property are currently unknown, but are anticipated to fluctuate both seasonally and annually. Groundwater was not encountered in the two test pits excavated in this investigation.

3.4 GEOLOGIC HAZARDS FROM LITERATURE

Based upon the available geologic literature, regional-scale geologic hazard maps that cover the Lot 14R project area have been produced for landslide, fault, debris-flow, and liquefaction hazards. The following is a summary of the data presented in these regional geologic hazard maps.

¹ Colluvium: A general term applied to any loose, heterogeneous, and incoherent mass of soil material and/or rock fragments deposited by rainwash, sheetwash, or slow continuous downslope creep, usually collecting at the base of gentle slopes or hillsides. (AGI, 2005)

3.4.1 Landslides

Two regional-scale landslide hazard maps have been produced that cover the project area. Colton (1991) shows the property to be underlain by south-trending landslide deposits. Elliott and Harty (2010) shows the entire property to be underlain by deposits mapped as "Landslide undifferentiated from talus and/or colluvial deposits." As noted above, on a site-specific basis, Western Geologic (2012) mapped the area underlying the property as "mixed slope colluvium, shallow landslides, and talus" (Figure A-3), while most recently Coogan and King (2016) on a regional scale show the property to be entirely situated upon landslide deposits (Figure A-4).

3.4.2 Faults

Neither Christenson and Shaw (2008a) nor the Quaternary Fault and Fold Database of the United States (USGS and UGS, 2006) show any Quaternary-aged (~2.6 million years ago to the present) faults to be present on or projecting towards the subject property. The Weber County Natural Hazards Overlay Districts defines an active fault to be "a fault displaying evidence of greater than four inches of displacement along one or more of its traces during Holocene time (about 11,000 years ago to the present)" (Weber County, 2015). The closest active fault to the property is the Weber Segment of the Wasatch Fault Zone, located approximately 9.4 miles southwest of the western margin of the property (USGS and UGS, 2006).

3.4.3 Debris Flows

Christenson and Shaw (2008b) do not show the project area to be located within a debris-flow hazard special study area.

3.4.4 Liquefaction

Anderson, et al. (1994) and Christenson and Shaw (2008c) both show the project area to be located in an area with very low potential for liquefaction.

3.5 REVIEW OF AERIAL IMAGERY

A series of aerial photographs that cover project area were taken from the UGS Aerial Imagery Collection and analyzed stereoscopically for the presence of adverse geologic conditions across the property. This included a review of photos collected from the years 1947, 1953, and 1963. A table displaying the details of the aerial photographs reviewed can be found in the *References* section at the end of this report.

No definitive geologic lineaments, fault scarps, landslide headscarps, or landslide deposits were observed in the aerial photography on the subject property, though irregular topography was observed in the vicinity of the property.

Google Earth imagery of the property from between the years of 1993 and 2017 were also reviewed. No landslide or other geological hazard features were noted in the imagery. The property

was observed to be patchily to densely covered in trees and bushes. Some surficial gravel, cobbles, and boulders were observed, though the property does not contain any drainages. No notable changes to the property, either human or natural, were observed in the aerial imagery across this time frame, aside from the cutting in of Horizon Run between September of 2011 and October of 2014.

At the time of this report, no LiDAR data for the project area was available to be reviewed.

3.6 SEISMICITY

Following the criteria outlined in the 2015 International Building Code (IBC, 2015), spectral response at the site was evaluated for the *Maximum Considered Earthquake* (MCE) which equates to a probabilistic seismic event having a two percent probability of exceedance in 50 years (2PE50). Spectral accelerations were determined based on the location of the site using the *U.S. Seismic "DesignMaps" Web Application* (USGS, 2012/15); this software incorporates seismic hazard maps depicting probabilistic ground motions and spectral response data developed for the United States by the U. S. Geological Survey as part of NEHRP/NSHMP (Frankel et al., 1996). These maps have been incorporated into both *NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures* (FEMA, 1997) and the *International Building Code* (IBC) (International Code Council, 2015).

Parameter	Short Period (0.2 sec)	Long Period (1.0 sec)
MCE Spectral Response Acceleration (g)	$S_{S} = 0.831$	$S_1 = 0.277$
MCE Spectral Response Acceleration Site Class C (g)	$S_{MS}=S_{s}F_{a}=0.887$	$S_{M1} = S_1 F_v = 0.421$
Design Spectral Response Acceleration (g)	$S_{DS} = S_{MS} \ast^2 /_3 = 0.592$	$S_{D1} = S_{M1} \ast^2 /_3 = 0.281$

Table 3.6Short- and Long-Period Spectral Accelerations for MCE

To account for site effects, site coefficients that vary with the magnitude of spectral acceleration and *Site Class* are used. Site Class is a parameter that accounts for site amplification effects of soft soils and is based on the average shear wave velocity of the upper 100 feet; based on our field exploration and our understanding of the geology in this area, the subject site is appropriately classified as Site Class C (*very dense soil/soft rock*). Based on IBC criteria, the short-period (F_a) coefficient is 1.067 and the long-period (F_v) site coefficient is 1.523. Based on the design spectral response accelerations for a *Building Risk Category* of I, II or III, the site's *Seismic Design Category* is D. The short- and long-period *Design Spectral Response Accelerations* are presented in Table 3.6; a summary of the *Design Maps* analysis is presented in Appendix B. The *peak ground acceleration* (PGA) may be taken as 0.4*S_{MS}.

3.7 GEOLOGIC HAZARD ASSESSMENT

Geologic hazard assessments are necessary to determine the potential risk associated with particular geologic hazards that are capable of adversely affecting a proposed development area. As such, they are essential in evaluating the suitability of an area for development and provide critical data in both the planning and design stages of a proposed development. The geologic hazard assessment discussion below is based upon a qualitative assessment of the risk associated with a particular geologic hazard, based upon the data reviewed and collected as part of this investigation.

A "low" hazard rating is an indication that the hazard is either absent, is present in such a remote possibility so as to pose limited or little risk, or is not anticipated to impact the project in an adverse way. Areas with a low-risk determination for a particular geologic hazard do not require additional site-specific studies or associated mitigation practices with regard to the geologic hazard in question. A "moderate" hazard rating is an indication that the hazard has the capability of adversely affecting the project at least in part, and that the conditions necessary for the geologic hazard are present in a significant, though not abundant, manner. Areas with a moderate-risk determination for a particular geologic hazard may require additional site-specific studies, depending on location and construction specifics, as well as associated mitigation practices in the areas that have been identified as the most prone to susceptibility to the particular geologic hazard. A "high" hazard rating is an indication that the hazard is very capable of or currently does adversely affect the project, that the geologic conditions pertaining to the particular hazard are present in abundance, and/or that there is geologic evidence of the hazard having occurred at the area in the historic or geologic past. Areas with a high-risk determination always require additional site-specific hazard investigations and associated mitigation practices where the location and construction specifics are directly impacted by the hazard. For areas with a high-risk geologic hazard, simple avoidance is often considered.

The following is a summary of the geologic hazard assessment for the Lot 14R property.

3.7.1 Landslides/Mass-Movement

The landslide hazard constitutes the greatest geologic hazard risk associated with the property. According to the several most recent geologic maps produced that cover the property, the lot is entirely situated on mapped landslide or other mass-movement deposits (Coogan and King, 2016; Western Geologic, 2012; Elliott and Harty, 2010). Additionally, characteristic hummocky topography associated with landslide deposits and small landslide headscarps were observed south and downslope of the building envelope during the site reconnaissance (see Figure A-5).
Within TP-2, located south of the building envelope, both younger and older landslide deposits were observed in the form of erratic, heterogeneous units with pinhole voids and irregular clay lenses. A clay-rich basal unit in TP-2 may represent weathered Nounan Dolomite bedrock that provided the slip plane for the older landslide deposits, though no natural slickensides were observed within this unit. In TP-1, an identified colluvial unit may include shallow landslide deposits. Based upon surficial morphology and the test pit data, the older landslide deposits may extend into the southern portion of the building envelope (see Figure A-5).

Within the building envelope, the property was observed to have the gentlest grade and not exhibit hummocky topography. Wasatch Formation was found beneath surficial colluvium deposits in TP-1, and it is believed that this bedrock unit underlies most of the building envelope.

Given the geologic data alone, the risk associated with landslide hazards on the property is considered to be moderate to high for all parts of the property except the building envelope, which is considered to be low to moderate. However, slope stability analyses have indicated the slope is stable under the current conditions, as well as a hypothetical scenario with a home with a walk-out basement (see Section 4.3). As such, the corresponding landslide and slope stability hazard risk is considered to be moderate to low.

3.7.2 Rockfall

Though the property is on a slope, no bedrock outcrops are exposed upslope of the property. As such, the rockfall hazard associated with the property is considered to be low.

3.7.3 Surface-Fault Rupture and Earthquake-Related Hazards

No faults are known to be present on or project across the property, and the closest active fault to the property is the Weber Segment of the Wasatch Fault Zone, located approximately 9.4 miles to the west of the property (USGS and UGS, 2006). Given this information, the risk associated with surface-fault-rupture on the property is considered low.

The entire property is subject to earthquake-related ground shaking from a large earthquake generated along the active Wasatch Fault. Given the distance from the Wasatch Fault, the hazard associated with ground shaking is considered to be moderate. Proper building design according to appropriate building code and design parameters can assist in mitigating the hazard associated with earthquake ground shaking.

3.7.4 Liquefaction

The site is underlain at least in part by the Wasatch Formation, a poorly consolidated sedimentary rock unit (conglomerate). Rock units such as these are not considered susceptible to liquefaction; as such, the potential for liquefaction occurring at the site is considered low.

3.7.5 Debris-Flows and Flooding Hazards

The property does not contain and is not located adjacent to any active or ephemeral drainages. Additionally, there are no debris-flow source areas upslope of the property, and the property is on a consistent slope downhill to the south. Given these conditions, the debris-flow and flooding hazard associated with the property is considered to be low.

3.7.6 Shallow Groundwater

Groundwater was not encountered in either of the two test pits excavated as part of this investigation. The test pits were excavated in late November, and the groundwater level was likely to be on its way down to its annual low. No springs were observed on the property, and no plants indicative of shallow groundwater conditions were observed on the property. However, shallow groundwater conditions have been observed at the nearby *Horizon Neighbourhood* property (IGES, 2016).

Given the existing data, it is expected that groundwater levels will fluctuate both seasonally and annually, and the risk associated with shallow groundwater hazards is considered low to moderate. Spring thaw and runoff are likely to significantly contribute to elevated groundwater conditions (localized perched conditions). However, shallow groundwater issues can be mitigated through appropriate grading measures and/or the avoidance of the construction of basement levels, or constructing basements with foundation drains.

4.0 GENERALIZED SITE CONDITIONS

4.1 SITE RECONNAISSANCE

Mr. Peter E. Doumit, P.G., C.P.G., of IGES conducted reconnaissance of the site and the immediate adjacent properties on November 13, 2017. The site reconnaissance was conducted with the intent to assess the general geologic conditions present across the property, with specific interest in those areas identified in the geologic literature and aerial imagery reviews as potential geologic hazard areas. Additionally, the site reconnaissance provided the opportunity to map the surficial geology of the area. Figure A-5 is a site-specific geologic map of the Lot 14R property and adjacent areas.

At the time of the site reconnaissance, the property had patchy snow on the ground, but the surficial morphology was still able to be discerned. In general, the property was observed to have highly irregular, possibly hummocky surface topography with common breaks in slope in various parts. The proposed building envelope was observed to have the gentlest grade and appeared to be a localized topographic high. South of the building envelope, hummocky topography and corresponding landslide deposits were observed (see Figure A-5). Dense to patchy vegetation in the form of aspen trees and low-lying bushes was observed across much of the property. The aspens displayed evidence of moderate to strong soil creep, especially in areas of steeper slope.

Variously-sized boulders and cobbles were found scattered across the property, as part of the surficial colluvial geologic unit derived from weathered Wasatch Formation. These were typically subrounded to rounded and were found to be as large as 8 feet in diameter. The rock clasts² were found to be comprised entirely of massive, coarsely crystalline quartzite, which was medium gray in color when unweathered, but commonly weathered to dark reddish orange. The clasts were observed to be weathering out of a sandy lean clay topsoil.

No springs, seeps, or running water were observed on the property at the time of the site visit.

Near the southern margin of the property a distinct landslide toe was observed, evidenced by a sharp break in slope and common boulders and cobbles weathering out of the slope break. This landslide toe was observed to have two lobes, separated by a small headscarp. At the southern margin of the property, the grade levels out and an open area with low-lying bushes and few trees was observed, possibly indicative of a more recent landslide deposit at least in part associated with the headscarp.

² Clast: An individual constituent, grain, or fragment of a sediment or rock, produced by the mechanical or chemical disintegration or a larger rock mass. (AGI, 2005)

4.2 SUBSURFACE CONDITIONS

On November 22, 2017, two exploration test pits were excavated at representative locations near the proposed building envelope on the lot (see Figure A-5). The test pits were excavated to depths ranging between 10½ and 12 feet below existing grade with the aid of a Caterpillar 320F tracked excavator. Upon completion of logging, the test pits were backfilled without compactive effort. Detailed logs for the test pits are displayed in Figure A-6 and Figure A-7, respectively. Six distinct geologic units were encountered in the subsurface, with only one of the units (A/B Soil Horizon) being found in both of the test pits. The soil and moisture conditions encountered during our investigation are discussed in the following paragraphs.

4.2.1 Earth Materials

<u>A/B Soil Horizon</u>: This topsoil unit was found to be between approximately 1 to 2 feet thick in both test pits. The unit was a brownish black, loose to medium stiff, moist to wet, sandy lean CLAY with gravel (CL), with gravel and larger-sized quartzite clasts comprising between approximately 5 and 25% of the unit. The unit contained abundant plant and tree roots and had a very wavy basal contact.

Colluvium (Qc): This unit was only encountered in TP-1, being between approximately 1 and 3 feet thick. The unit was variegated between a moderate yellowish brown to light brown to pale yellowish orange color, and consisted of a medium dense, slightly moist, silty, clayey SAND with gravel (SM-SC). Gravel and larger-sized subrounded to subangular quartzite clasts comprised approximately 20% of the unit, with individual clasts up to 8 inches in diameter, though the mode clast size was approximately 1 to 2 inches in diameter. The unit contained abundant 1 to 2 mm diameter pinhole voids throughout, though the fines content had a low plasticity. Occasional calcium carbonate matrix flour was also observed. This unit may be representative of a shallow, surficial landslide deposit, given the highly irregular nature of the upper contact.

Wasatch Formation (Tw): This unit was observed in TP-1 only, being more than 5.5 feet thick and extending to the maximum depth of exploration within the test pit. The unit consisted of weakly consolidated conglomerate bedrock that had been largely disaggregated into a pale yellowish orange to dark reddish brown, dense to very dense, slightly moist mixture of clay, sand, and gravel that collectively classifies as clayey GRAVEL with sand (GC). Gravel and larger-sized subangular to subrounded quartzite clasts comprised between approximately 30 and 60% of the unit, with individual clasts up to 3 feet in diameter, with a mode clast size of 4 to 6 inches. Where clayey, the unit exhibited common pinholes between 1 and 2 mm in diameter.

Young Landslide (Olsy): This unit was observed in TP-2 only and was found to be between 2 and 4 feet thick. The unit consisted of a highly variegated, dark yellowish brown to black to dark yellowish orange, loose to medium dense, moist to wet, clayey SAND with gravel (SC) gradational to sandy lean CLAY with gravel (CL). Gravel and larger-sized subrounded quartzite clasts

comprised between approximately 10 and 15% of the unit, with individual clasts up to 14 inches in diameter, though the mode clast size was 2 inches and clast sizes were highly variable. The unit was found to be a highly erratic, heterogeneous unit, though no evident basal slide plane was observed.

Older Landslide (Olso): This unit was observed in TP-2 only, being between 2 and more than 10 feet thick, extending to the maximum depth of exploration in portions of the test pit. The unit consisted of a moderate yellowish brown to light brown, medium dense, slightly moist, clayey SAND with gravel (SC). Gravel and larger-sized subrounded quartzite clasts comprised between approximately 30 and 40% of the unit, with individual clasts up to 2 feet in diameter, though the mode clast size was 1 to 2 inches. Abundant pinhole voids between 1 and 2 mm in diameter were observed. The unit appeared very similar to the colluvium unit observed in TP-1, and contained a sharp, highly irregular basal contact.

<u>Weathered Bedrock? (Cn?)</u>: This unit was observed in TP-2 only, being at least 1.5 feet thick and extending to the maximum depth of exploration in most of the test pit. The unit consisted of a dark reddish brown, stiff to very stiff, slightly moist, sandy lean CLAY with gravel (CL). Gravel and larger-sized subrounded to subangular quartzite clasts comprised approximately 10% of the unit, with individual clasts up to 2.5 feet in diameter, though the mode clast size was 1 to 2 inches. The unit was observed to have occasional discontinuous, poorly developed mechanically-induced slickensides when broken, but not in situ. The unit appeared similar to weathered Nounan Dolomite bedrock seen in other places of Powder Mountain, though dolomite clasts were not observed within the unit. It is possible that this unit could represent a possible slide plane for the older landslide deposits.

4.2.2 Groundwater

Groundwater was not encountered in either of the test pits excavated for this project; however, it should be noted that groundwater has been encountered in several test pit excavations located east of the subject lot in the *Horizon Neighbourhood* property (IGES, 2016). Additionally, the young landslide unit observed in TP-2 was wet in places, and it is quite possible that groundwater, or local seeps, could be encountered locally in excavations that exceed a depth of 12 feet below existing grade.

4.2.3 Strength of Earth Materials

One consolidated-drained direct shear test was completed under drained conditions on a remolded sample obtained the prevailing coarse, granular soils – the sample was obtained from TP-1 at a depth of 3½ feet from colluvium deposits that classifies as Clayey SAND with gravel (SC). The test results indicate that the soil tested has a friction angle of 30 degrees and a cohesion of 54 psf. A summary of the direct shear test is presented in Appendix B.

4.3 SLOPE STABILITY

4.3.1 Global Stability

The stability of the existing natural slope has been assessed in accordance with methodologies set forth in Blake et al. (2002) and AASHTO LRFD for Bridge Design Specifications with respect to a representative cross-section, illustrated on Figure D-1 in Appendix D (the section is identified in plan-view on Figure A-5). The stability of the slope was modeled using SLIDE, a computer application incorporating (among others) Spencer's Method of analysis. Calculations for stability were developed by searching for the minimum factor of safety for a rotational-type failure occurring through surficial soils (colluvium and shallow landslide deposits), just above the underlying conglomerate bedrock. Analysis was performed for both static and seismic (pseudo-static) cases. The slope was modeled under both existing conditions and assuming a basement excavation with a typical residential foundation load (estimated, since grading plans are not yet available).

Groundwater, e.g. a piezometric groundwater surface, was not encountered during our subsurface investigation; however, seepage was noted in test pits on nearby properties (IGES, 2016). Accordingly, groundwater was not modeled in our limit-equilibrium analysis. Saturated parallel seepage has been modeled in a separate analysis (see Section 4.3.2).

Soil strength parameters were selected based on soil types observed, local experience, correlation with index properties (Atterberg Limits, fines content), site-specific strength testing (direct shear test), and comparisons with soil strength laboratory data from a nearby site (IGES, 2016). Based on this assessment, the following soil strength parameters were selected for this analysis:

Forth Motorials	Friction angle	Cohesion	Unit Weight
Earth Waterlais	(degrees)	(psf)	(pcf)
Colluvium	30	100	120
Bedrock (Tw)	40	100	130
Undocumented Fill (Af)	35	75	125
Old Landslide (Qlso)	30	100	120
Young Landslide (Qlsy)	30	100	120
Nounan Formation (Cn)	25	1,500	120

Table 4.3.1a	
Soil Strength Parameters	

Pseudo-static (seismic screening) analysis of the proposed slope was performed in general conformance with Blake et al. (2002), ASCE 7-10 and AASHTO LRFD for Bridge Design Specifications. The design seismic event was taken as the ground motion with a 2 percent probability of exceedance in 50 years (2PE50). Based on information provided on the USGS website ground motion calculator, the Peak Ground Acceleration (PGA) associated with a 2PE50 event is estimated to be 0.36g. Half of the PGA, (0.177g), was taken as the horizontal seismic

coefficient (k_h) (Hynes and Franklin, 1984), and used in the pseudo-static seismic screen analysis. The results of the analyses have been summarized in Table 4.3.1b.

Section	Static Factor of Safety	Pseudo-Static Factor of Safety
Existing Condition	1.88	1.23
Estimated Grading	2.56	1.62

Table 4.3.1bResults of Slope Stability Analyses

The results of the analysis indicated the existing conditions meet the minimum required factorsof-safety of 1.5 and 1.0 for both the static and seismic (pseudo-static) case, respectively. The planned improvements will include a basement level, which would tend to unload the slope and further improve the stability of the slope; significant fill placement on the slope, which would tend to load the slope and decrease stability, is not anticipated. A summary of the slope stability analysis is presented in Appendix D.

4.3.2 Surficial Stability

Our subsurface investigation indicates that the near-surface soils generally consist of clayey sand with gravel (SC). Material identified as 'topsoil' (A/B Horizon) generally ranges in thickness from 1 to 2 feet; the topsoil has developed on the prevailing colluvial cover identified within the building envelope, and therefore consists largely of clayey sand with gravel, but with a higher organic component (abundant roots).

IGES assessed the potential for the upper three feet to become mobilized under saturated parallel seepage conditions. Our assessment assumes three feet of coarse colluvium or topsoil, fully saturated, and a 3.5H:1V slope (this would be a transient condition that could occur during primary spring run-off and snowmelt). Our model assumes an estimated effective friction angle of 30 degrees and a cohesion of 50 psf, and a saturated unit weight of 135 pcf. Based on this model, a factor-of-safety of 1.56 results. Sample calculations are presented in Appendix D.

Our calculations do not take into account the beneficial effects of plant roots, which were commonly observed throughout the topsoil units. Many of the existing natural slopes are thickly vegetated, which is expected to reduce the likelihood of shallow surficial slope instability. Conversely, slopes that have been grubbed, or new fill slopes constructed steeper than about 2.5H:1V, may experience localized shallow surficial failures during spring snowmelt until vegetation is established.

Based on our infinite slope model, and the foregoing discussion, IGES considers the potential for surficial slope instability impacting natural, vegetated slopes on this site to be low.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 GENERAL CONCLUSIONS

Based on the results of the field observations, literature review, and slope stability analyses, the subsurface conditions are considered suitable for the proposed development provided that the recommendations presented in this report are incorporated into the design and construction of the project.

Supporting data upon which the following conclusions and recommendations are based have been presented in the previous sections of this report. The recommendations presented herein are governed by the physical properties of the earth materials encountered in the subsurface explorations. If subsurface conditions other than those described herein are encountered in conjunction with construction, and/or if design and layout changes are initiated, IGES must be informed so that our recommendations can be reviewed and revised as deemed necessary.

5.2 GEOLOGIC CONCLUSIONS AND RECOMMENDATIONS

Based upon the data collected and reviewed as part of the geologic hazard assessment, IGES makes the following conclusions regarding the geological hazards present at the Lot 14R project area:

- The Lot 14R project area appears to have geological hazards that are capable of adversely impacting the development as currently proposed under the existing conditions, in the form of landslide deposits. However, engineered mitigation practices for the proposed development are capable of reducing the landslide hazard risk to a level that is considered to be suitable from a geologic hazards perspective.
- Landsliding represents the greatest geologic risk to the property. The property is located on mapped landslide deposits, and landslide deposits and a headscarp was observed in the southern part of the property. In addition, both younger and older landslide deposits were observed in the subsurface in TP-2, and the older landslide deposits may extend into the southern part of the building envelope. However, geologic evidence indicative of active movement was not observed within the building envelope, and the slope stability analysis indicates a stable slope for the property in the vicinity of the building envelope. As such, the landslide hazard for the property is considered to be moderate to low, as there is always some inherent risk when developing on known landslide deposits.
- Earthquake ground shaking is the only other identified hazard that may potentially affect all parts of the project area and is considered to pose a moderate risk.
- Shallow groundwater conditions were not observed in either of the two test pits, though groundwater seepage has been observed in test pits on nearby properties and are common

within landslide deposits; therefore, shallow groundwater hazards are considered to be low to moderate for the property.

• Rockfall, surface-fault-rupture, liquefaction, debris-flow, and flooding hazards are considered to be low for the property.

Given the conclusions listed above, IGES makes the following recommendations:

- Because landslide deposits are noted on the property, an IGES engineering geologist or geotechnical engineer should observe the foundation excavation to assess the absence (or presence) of landslide-induced shearing.
- Development should not take place on landslide deposits; over-excavation of the landslide deposits (if present) to competent native materials (Wasatch Formation) should be performed within the building envelope.
- The contact between the older landslide deposits and the Wasatch Formation may be within the southern part of the building envelope. As such, it is recommended that the northern portion of the building envelope be utilized for the proposed development in order to avoid the landslide deposits and the associated landslide mitigation. In the event that the southern portion of the building envelope is to be used for the development, an IGES engineering geologist should be present to identify the contact, note its trend, and provide recommendations for over-excavation of the landslide deposits and the placement of structural fill, if necessary.
- Effort should be made to limit the introduction of water into the subsurface near the proposed residence. Appropriate grading and drainage away from the home and xeriscape or natural landscaping will assist in reducing the risk of landsliding.
- Young landslide deposits associated with a notable scarp are located within 50 feet of the southern margin of the building envelope. If tension cracks or other ground deformation is observed near this area, or near the building envelope, IGES should be contacted to evaluate the ground deformation and assess whether mitigation is needed.

5.3 EARTHWORK

5.3.1 General Site Preparation and Grading

Below proposed structures, fills, and man-made improvements, all vegetation, topsoil, debris and undocumented fill (if any) should be removed. Any existing utilities should be re-routed or protected in place. The exposed native soils should then be proof-rolled with heavy rubber-tired equipment such as a scraper or loader*. Any soft/loose areas identified during proof-rolling should be removed and replaced with structural fill. All excavation bottoms should be observed by an IGES representative during proof-rolling or otherwise prior to placement of engineered fill to evaluate whether soft, loose, or otherwise deleterious earth materials have been removed, and to assess compliance with the recommendations presented in this report.

*not required where bedrock is exposed in the foundation subgrade

5.3.2 Excavations

Soft, loose, or otherwise unsuitable soils beneath structural elements, hardscape or pavements may need to be over-excavated and replaced with structural fill. This includes landslide deposits, if encountered in the subsurface. If over-excavation is required, the excavations should extend one foot laterally for every foot of depth of over-excavation. Excavations should extend laterally at least two feet beyond flatwork, pavements, and slabs-on-grade. Structural fill should consist of granular materials and should be placed and compacted in accordance with the recommendations presented in this report.

Prior to placing structural fill, all excavation bottoms should be scarified to at least 6 inches, moisture conditioned as necessary at or slightly above optimum moisture content (OMC), and compacted to at least 90 percent of the maximum dry density (MDD) as determined by ASTM D-1557 (Modified Proctor). Scarification is not required where hard bedrock is exposed.

5.3.3 Excavation Stability

The contractor is responsible for site safety, including all temporary trenches excavated at the site and the design of any required temporary shoring. The contractor is responsible for providing the "competent person" required by Occupational Safety and Health (OSHA) standards to evaluate soil conditions. For planning purposes, Soil Type C is expected to predominate at the site (sands and gravels). Close coordination between the competent person and IGES should be maintained to facilitate construction while providing safe excavations.

Based on OSHA guidelines for excavation safety, trenches with vertical walls up to 5 feet in depth may be occupied. Where very moist soil conditions or groundwater is encountered, or when the trench is deeper than 5 feet, we recommend a trench-shield or shoring be used as a protective system to workers in the trench. As an alternative to shoring or shielding, trench walls may be laid back at one and one-half horizontal to one vertical (1½H:1V) (34 degrees) in accordance with OSHA Type C soils. Trench walls may need to be laid back at a steeper grade pending evaluation of soil conditions by the geotechnical engineer. Soil conditions should be evaluated in the field on a case-by-case basis. Large rocks exposed on excavation walls should be removed (scaled) to minimize rock fall hazards.

5.3.4 Structural Fill and Compaction

All fill placed for the support of structures, flatwork or pavements should consist of structural fill. Structural fill should consist of granular native soils, which may be defined as soils with less than 25% fines, 10-60% sand, and contain no rock larger than 4 inches in nominal size (6 inches in greatest dimension). Structural fill should also be free of vegetation and debris. All structural fill should be 1-inch minus material when within 1 foot of any base coarse material. Soils not meeting these criteria may be suitable for use as structural fill; however, such soils should be evaluated on a case by case basis and should be approved by IGES prior to use.

All structural fill should be placed in maximum 4-inch loose lifts if compacted by small handoperated compaction equipment, maximum 6-inch loose lifts if compacted by light-duty rollers, and maximum 8-inch loose lifts if compacted by heavy duty compaction equipment that is capable of efficiently compacting the entire thickness of the lift. Additional lift thickness may be allowed by IGES provided the Contractor can demonstrate sufficient compaction can be achieved with a given lift thickness with the equipment in use. We recommend that all structural fill be compacted on a horizontal plane, unless otherwise approved by IGES. Structural fill underlying all shallow footings and pavements should be compacted to at least 95 percent of the MDD as determined by ASTM D-1557. **The moisture content should be at, or slightly above, the OMC for all structural fill**. Any imported fill materials should be approved prior to importing. Also, prior to placing any fill, the excavations should be observed by IGES to confirm that unsuitable materials have been removed. In addition, proper grading should precede placement of fill, as described in the General Site Preparation and Grading subsection of this report.

Specifications from governing authorities such as Weber County and/or special service districts having their own precedence for backfill and compaction should be followed where more stringent.

5.3.5 Oversize Material

Based on our observations, there is a significant potential for the presence of oversize materials (larger than 6 inches in greatest dimension). Large rocks, particularly boulders (>12 inches), may require special handling, such as segregation from structural fill, and disposal.

5.3.6 Utility Trench Backfill

Utility trenches should be backfilled with structural fill in accordance with Section 5.3.4 of this report. Utility trenches can be backfilled with the onsite soils free of debris, organic and oversized material. Prior to backfilling the trench, pipes should be bedded in and shaded with a uniform granular material that has a Sand Equivalent (SE) of 30 or greater. Pipe bedding may be water-densified in-place (jetting). Alternatively, pipe bedding and shading may consist of clean ³/₄-inch gravel. Native earth materials can be used as backfill over the pipe bedding zone. All utility trenches backfilled below pavement sections, curb and gutter, and hardscape, should be backfilled with structural fill compacted to at least 95 percent of the MDD as determined by ASTM D-1557.

All other trenches should be backfilled and compacted to approximately 90 percent of the MDD (ASTM D-1557). However, in all cases the pipe bedding and shading should meet the design criteria of the pipe manufacturer. Specifications from governing authorities having their own precedence for backfill and compaction should be followed where they are more stringent.

5.4 FOUNDATION RECOMMENDATIONS

Based on our field observations and considering the presence of relatively competent native earth materials, we recommend that the footings for proposed single-family home be founded either *entirely* on competent native soils <u>or *entirely*</u> on structural fill. Native/fill transition zones are not allowed. Where soft, loose, or otherwise deleterious earth materials (such as landslide deposits or undocumented fill) are exposed on the foundation subgrade, IGES recommends a minimum over-excavation of 2 feet and replacement with structural fill. Alternatively, the foundations may be extended such that the foundations bear directly on competent earth materials (Wasatch Formation, e.g. conglomerate bedrock). We recommend that IGES assess the bottom of the foundation excavation prior to the placement of steel or concrete, or structural fill, to identify the competent native earth materials as well as any unsuitable soils or transition zones. Additional over-excavation may be required based on the actual subsurface conditions observed.

Shallow spread or continuous wall footings constructed entirely on structural fill, or entirely on competent, uniform native earth materials (Wasatch Formation conglomerate) may be proportioned utilizing a maximum net allowable bearing pressure of **3,200 pounds per square foot (psf)** for dead load plus live load conditions. The net allowable bearing values presented above are for dead load plus live load conditions. The allowable bearing capacity may be increased by one-third for short-term loading (wind and seismic). The minimum recommended footing width is 20 inches for continuous wall footings and 30 inches for isolated spread footings.

All conventional foundations exposed to the full effects of frost should be established at a minimum depth of 42 inches below the lowest adjacent final grade. Interior footings, not subjected to the full effects of frost (i.e., *a continuously heated structure*), may be established at higher elevations, however, a minimum depth of embedment of 12 inches is recommended for confinement purposes.

Foundation drains should be installed around below-ground foundations (e.g., basement walls) to minimize the potential for flooding from shallow groundwater or seepage, which may be present at various times during the year, particularly spring run-off.

5.5 SETTLEMENT

5.5.1 Static Settlement

Static settlements of properly designed and constructed conventional foundations, founded as described in Section 5.4, are anticipated to be on the order of 1 inch or less. Differential settlement is expected to be half of total settlement over a distance of 30 feet.

5.5.2 Dynamic Settlement

Dynamic settlement (or seismically-induced settlement) consists of dry dynamic settlement of unsaturated soils (above groundwater) and liquefaction-induced settlement (below groundwater). During a strong seismic event, seismically-induced settlement can occur within loose to moderately dense sandy soil due to reduction in volume during, and shortly after, an earthquake event. Settlement caused by ground shaking is often non-uniformly distributed, which can result in differential settlement.

Based on the subsurface conditions encountered, dynamic settlement arising from a MCE seismic event is expected to be low; for design purposes, settlement on the order of ½ inch over 40 feet may be assumed.

5.6 EARTH PRESSURES AND LATERAL RESISTANCE

Lateral forces imposed upon conventional foundations due to wind or seismic forces may be resisted by the development of passive earth pressures and friction between the base of the footing and the supporting soils. In determining the frictional resistance against concrete, a coefficient of friction of 0.45 for sandy/gravelly native soils or structural fill should be used.

Ultimate lateral earth pressures from *granular* backfill acting against retaining walls, temporary shoring, or buried structures may be computed from the lateral pressure coefficients or equivalent fluid densities presented in Table 5.6. These lateral pressures should be assumed even if the backfill is placed in a relatively narrow gap between a vertical bedrock cut and the foundation wall. These coefficients and densities assume no buildup of hydrostatic pressures. The force of water should be added to the presented values if hydrostatic pressures are anticipated.

Clayey soils drain poorly and may swell upon wetting, thereby greatly increasing lateral pressures acting on earth retaining structures; therefore, clayey soils should not be used as retaining wall backfill. Backfill should consist of native granular soil with an Expansion Index (EI) less than 20.

Walls and structures allowed to rotate slightly should use the active condition. If the element is to be constrained against rotation (i.e., a basement wall), the at-rest condition should be used. These values should be used with an appropriate factor of safety against overturning and sliding. A value of 1.5 is typically used. Additionally, if passive resistance is calculated in conjunction with frictional resistance, the passive resistance should be reduced by ½.

	Level I	Backfill	2H:1V Backfill		
Condition	Lateral Pressure Coefficient	Equivalent Fluid Density (pcf)	Lateral Pressure Coefficient	Equivalent Fluid Density (pcf)	
Active (Ka)	0.33	41.7	0.53	66.5	
At-rest (Ko)	0.50	55	0.80	85	
Passive (Kp)	3.0	375			
Seismic Active	0.12	15.1	0.38	47.4	
Seismic Passive	-0.33	-40.8			
Seismic At-rest	0.18	22.5	0.57	71.7	

Table 5.6Lateral Earth Pressure Coefficients

For seismic analyses, the *active* earth pressure coefficient provided in the table is based on the Mononobe-Okabe pseudo-static approach and only accounts for the dynamic horizontal thrust produced by ground motion. Hence, the resulting dynamic thrust pressure *should be added* to the static pressure to determine the total pressure on the wall. The pressure distribution of the dynamic horizontal thrust may be closely approximated as an inverted triangle with stress decreasing with depth and the resultant acting at a distance approximately 0.6 times the loaded height of the structure, measured upward from the bottom of the structure.

5.7 CONCRETE SLAB-ON-GRADE CONSTRUCTION

To minimize settlement and cracking of slabs, and to aid in drainage beneath the concrete floor slabs, all concrete slabs should be founded on a minimum 4-inch layer of compacted gravel overlying properly prepared subgrade. The gravel should consist of free-draining gravel or road base with a 3/4-inch maximum particle size and no more than 5 percent passing the No. 200 mesh sieve. The layer should be compacted to at least 95 percent of the MDD as determined by ASTM D-1557.

All concrete slabs should be designed to minimize cracking as a result of shrinkage. Consideration should be given to reinforcing the slab with a welded wire fabric, re-bar, or fibermesh. Slab reinforcement should be designed by the structural engineer; however, as a minimum, slab reinforcement should consist of 4''×4'' W2.9×W2.9 welded wire mesh within the middle third of the slab. We recommend that concrete be tested to assess that the slump and/or air content is in compliance with the plans and specifications. We recommend that concrete be placed in general accordance with the requirements of the American Concrete Institute (ACI). A Modulus of Subgrade Reaction of **250 psi/inch** may be used for design.

A moisture barrier (vapor retarder) consisting of 10-mil thick Visqueen (or equivalent) plastic sheeting should be placed below slabs-on-grade where moisture-sensitive floor coverings or

equipment is planned. Prior to placing this moisture barrier, any objects that could puncture it, such as protruding gravel or rocks, should be removed from the building pad. Alternatively, the subgrade may be covered with 2 inches of clean sand.

5.8 MOISTURE PROTECTION AND SURFACE DRAINAGE

Surface moisture should not be allowed to infiltrate into the soils in the vicinity of the foundations. As such, design strategies to minimize ponding and infiltration near the structures should be implemented.

We recommend roof runoff devices be installed to direct all runoff a minimum of 10 feet away from foundations. The builder should be responsible for compacting the exterior backfill soils around the foundation; failure to properly compact the basement backfill can result in excessive settlement and damage to exterior improvements such as pavement or other flatwork. Additionally, the ground surface within 10 feet of the structures should be constructed so as to slope a minimum of **five** percent away from the structure. Irrigation valves should be placed a minimum of 5 feet from foundation walls and must not be placed within the basement backfill zone. Over-watering near the foundation walls is discouraged; use of Xeriscape and/or a drip irrigation system should be considered. Pavement sections should be constructed to divert surface water off the pavement into storm drains, curb/gutter, or another suitable location.

Where basements are planned, IGES recommends a perimeter foundation drain be constructed in accordance with the International Residential Code (IRC).

5.9 SOIL CORROSION POTENTIAL

Laboratory testing of representative soil samples obtained during previous nearby investigations (IGES, 2017, 2012b) indicated that the soil samples tested had sulfate contents less than 100 ppm. Accordingly, the soils in this area are appropriately classified as having a 'low potential' for deterioration of concrete due to the presence of soluble sulfate. As such, conventional Type II Portland cement may be used for all concrete in contact with site soils.

To evaluate the corrosion potential of ferrous metal in contact with onsite native soil, we have reviewed laboratory tests conducted for nearby soil samples obtained during previous nearby geotechnical investigation (IGES, 2017, 2012b). Three samples were tested for soil resistivity (AASHTO T288), soluble chloride content, and pH. The tests indicated that the onsite soil tested had a minimum soil resistivity of ranging from 980 to 5,311 OHM-cm, soluble chloride content ranging from 6 to 12 ppm, and a pH ranging from 6.3 to 6.6. Based on this result, the onsite native soil is considered *severely* corrosive to ferrous metal. Consideration should be given to retaining the services of a qualified corrosion engineer to provide an assessment of any metal that will be in contact with native clay soils.

5.10 CONSTRUCTION CONSIDERATIONS

5.10.1 Over-Size Material

Large boulders (up to 36 inches in diameter) were observed on the surface and within the test pits; as such, excavation of the basement may generate an abundance of over-size material that may require special handling, processing, or disposal.

6.0 CLOSURE

6.1 LIMITATIONS

The concept of risk is a significant consideration of geotechnical analyses. The analytical means and methods used in performing geotechnical analyses and development of resulting recommendations do not constitute an exact science. Analytical tools used by geotechnical engineers are based on limited data, empirical correlations, engineering judgment and experience. As such the solutions and resulting recommendations presented in this report cannot be considered risk-free and constitute IGES's best professional opinions and recommendations based on the available data and other design information available at the time they were developed. IGES has developed the preceding analyses, recommendations and designs, at a minimum, in accordance with generally accepted professional geotechnical engineering practices and care being exercised in the project area at the time our services were performed. No warrantees, guarantees or other representations are made.

The information contained in this report is based on limited field testing and understanding of the project. The subsurface data used in the preparation of this report were obtained largely from the explorations made for the Lot 14R project. It is very likely that variations in the soil, rock, and groundwater conditions exist between and beyond the points explored. The nature and extent of the variations may not be evident until construction occurs and additional explorations are completed. If any conditions are encountered at this site that are different from those described in this report, IGES must be immediately notified so that we may make any necessary revisions to recommendations presented in this report. In addition, if the scope of the proposed construction or grading changes from those described in this report, our firm must also be notified.

Landslide deposits were observed in the subsurface south of the building envelope of the property and may possibly extend into the southernmost extent of the building envelope. Although the current plans indicate the new home will be constructed within the northern half of the building envelope, and therefore outside of the identified landslide deposits, there is always a risk of the existing landslide to become reactivated and subsequently propagate uphill toward the home. It should be noted that while the slope stability assessment as performed as part of this investigation indicate that the slope is currently stable and anticipated to be stable following development, the landslide risk cannot be assumed to be zero.

This report was prepared for our client's exclusive use on the project identified in the foregoing. Use of the data, recommendations or design information contained herein for any other project or development at or near the subject site *not as specifically described in this report* is at the user's sole risk and without the approval of IGES, Inc. It is the client's responsibility to see that all parties to the project including the designer, contractor, subcontractors, etc. are made aware of this report

in its entirety. The use of information contained in this report for bidding purposes should be done at the contractor's option and risk.

We recommend that IGES be retained to review the final design plans, grading plans and specifications to determine if our engineering recommendations have been properly incorporated in the project development documents. We also recommend that IGES be retained to evaluate construction performance and other geotechnical aspects of the project as construction initiates and progresses through its completion.

6.2 ADDITIONAL SERVICES

The recommendations made in this report are based on the assumption that an adequate program of tests and observations will be made during the construction. IGES staff or other qualified personnel should be on site to verify compliance with these recommendations. These tests and observations should include at a minimum the following:

- Observations and testing during site preparation, earthwork and structural fill placement.
- Consultation as may be required during construction.
- Quality control on concrete placement to verify slump, air content, and strength.

We also recommend that project plans and specifications be reviewed by us to verify compatibility with our conclusions and recommendations. Additional information concerning the scope and cost of these services can be obtained from our office.

We appreciate the opportunity to be of service on this project. Should you have any questions regarding the report or wish to discuss additional services, please do not hesitate to contact us at your convenience at (801) 748-4044.

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Data Set	Date	Flight	Photographs	Scale
1947 AAJ	August 10, 1946	AAJ_1B	88, 89, 90	1:20,000
1953 AAI	September 14, 1952	AAI_4K	34, 35, 36	1:20,000
1963 ELK	June 25, 1963	ELK_3	57, 58, 59	1:15,840

AERIAL PHOTOGRAPHS

*https://geodata.geology.utah.gov/imagery/

Exhibit B

APPENDIX A



BASE MAPS:

-USGS HUNTSVILLE, BROWN'S HOLE, JAMES PEAK AND SHARP MOUNTAIN 7.5-MINUTE QUADRANGLE TOPOGRAPHIC MAPS (2017)





1" = 2000'

LOT 14R OF SUMMIT EDEN PHASE 1A

POWDER MOUNTAIN RESORT

WEBER COUNTY, UT

GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT

QUADRANGLE LOCATION



SITE VICINITY MAP

FIGURE

A-1



-USGS HUNTSVILLE 7.5-MINUTE GEOLOGIC QUADRANGLE MAP (GQ-1503), SORENSEN AND CRITTENDEN, JR. (1979)

-USGS BROWN'S HOLE 7.5-MINUTE GEOLOGIC QUADRANGLE MAP (GQ-968), CRITTENDEN, JR. (1972)





QUADRANGLE LOCATION



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT



REGIONAL GEOLOGY MAP 1

A-2a

MAP LEGEND

Qcs	COLLUVIUM AND SLOPEWASH (Holocene) – Bouldery colluvium and slopewash chiefly along eastern margin of Ogden Valley; in part, lag from Tertiary units; thickness 0-30 m
Qls	LANDSLIDE DEPOSITS (Holocene) – thickness 0-6 m
Qt.	TALUS DEPOSITS (Holocene) – thickness 0-6 m
TKwe	WASATCH AND EVANSTON(?) FORMATIONS, UNDIVIDED (Eocene, Paleocene, and Upper Cretaceous?) – Unconsolidated pale-reddish-brown pebble, cobble, and boulder conglomerate; forms boulder-covered slopes. Clasts are mainly Precambrian quartzite and are tan, gray, or purple; matrix is mainly poorly consolidated sand and silt; thickness 0-150 m
Esd	ST. CHARLES LIMESTONE (Upper Cambrian) – Includes: Dolomite member – Thin- to thick-bedded, finely to medium crystalline, light- to medium-gray, white- to light-gray-weathering, cliff-forming dolomite; linguloid brachiopods common in basal 15 m; thickness 150-245 m
. Esw	Worm Creek Quartzite Member – Thin-bedded, fine- to medium- grained, medium- to dark-gray, tan- to brown-weathering calcareous quartzitic sandstone; detrital grains well-sorted and well-rounded; thickness 6 m
€n	NOUNAN DOLOMITE (Upper and Middle Cambrian) – Thin- to thick-bedded, finely crystalline, medium-gray, light- to medium-gray- weathering, cliff-forming dolomite; white twiggy structures common throughout unit; thickness 150-230 m
Ebc	CALLS FORT SHALE MEMBER OF BLOOMINGTON FORMATION (Middle Cambrian) – Olive-drab to light-brown shale and light- to dark-blue-gray limestone with intercalated orange to rusty-brown silty limestone; intraformational conglomerate common throughout unit; thickness 23-90 m



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT

FIGURE

REGIONAL GEOLOGY MAP 1

A-2b

MAP LEGEND

€lu

€u

CAMBRIAN LIMESTONES, UNDIVIDED (Middle Cambrian) – Includes limestone and Hodges Shale Members of Bloomington Formation, and Blacksmith and Ute Limestones

UTE LIMESTONE (Middle Cambrian) – Medium- to thin-bedded, finely crystalline, light- to dark-gray silty limestone with irregular wavy partings, mottled and streaked surfaces, worm tracks, and twiggy structures common throughout unit; oolites and *Girvanella* in many beds; olive-drab fissile shale interbedded throughout unit. Includes thin-bedded, gray-weathering, pale-tan to brown dolomite exposed at base of unit, 18-24 m at head of Geertsen Canyon and 0-3 m elsewhere; thickness 245? m

Egcu

BRIGHAM GROUP (Crittenden and others, 1971) - Includes:
GEERTSEN CANYON QUARTZITE (Lower Cambrian) - Includes:
Upper member - Pale-buff to white or flesh-pink quartzite, locally streaked with pale red or purple. Coarse-grained; small pebbles occur throughout unit and increase in abundance downward. Base marked by zone 30-60 m thick of cobble conglomerate in beds 30 cm to

2 m thick; clasts, 5-10 cm in diameter, are mainly reddish vein quartz or quartzite, sparse gray quartzite, or red jasper; thickness 730-820 m

> Contact Dashed where approximately located; dotted where concealed

Fault showing dip Dashed where approximately located; dotted where concealed; queried where doubtful; bar and ball on downthrown side; arrows show direction of relative displacement



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT

FIGURE

A-2c

REGIONAL GEOLOGY MAP 1



BASE MAP:

-WESTERN GEOLOGIC (2012) GEOLOGIC HAZARDS RECONNAISSANCE REPORT, FIGURE 3





GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT



A-3

REGIONAL GEOLOGY MAP 2



Qg, Qg?, Qgm, Qgm?, Qga, Qga?

Glacial till and outwash, undivided age (Holocene and upper and middle? Pleistocene) – Qg is undivided glacial deposits (till and outwash) of various ages; till is non-stratified, poorly sorted clay, silt, sand, and gravel, to boulder size; Qgm is moraines of unknown age that are mapped where distinct shapes of end, recessional and lateral moraines are visible; outwash (Qga) is stratified and variably sorted, but better sorted and bedded than till due to alluvial reworking; Qga is mapped directly downslope from other glacial deposits where it is thick enough to obscure older deposits and bedrock, and where it can be separated from ground moraine (mapped as Qg) and alluvium (mapped as Qa_); locally include massmovement (Qms, Qmt, Qct) and rock glacier deposits that are too small to show separately at map scale; 6 to 150 feet (2-45 m) thick. Undivided because age uncertain or where deposits with multiple ages cannot be shown separately at map scale; queried where interpretation as glacial deposits is uncertain. Glacial deposits are prone to slope failures.

Qms, Qms?, Qmsy, Qmsy?, Qmso, Qmso?

Landslide deposits (Holocene and upper and middle? Pleistocene) – Poorly sorted clay- to bouldersized material; includes slides, slumps, and locally flows and floods; generally characterized by hummocky topography, main and internal scarps, and chaotic bedding in displaced blocks; composition depends on local sources; morphology becomes more subdued with time and amount of water in material during emplacement; Qms may be in contact with Qms when landslides are different/distinct; thickness highly variable, up to about 20 to 30 feet (6-9 m) for small slides, and 80 to 100 feet (25-30 m) thick for larger landslides. Qmsy and Qmso queried where relative age uncertain; Qms queried where classification uncertain. Numerous landslides are too small to show at map scale and more detailed maps shown in the index to geologic mapping should be examined.

- Qmc Landslide and colluvial deposits, undivided (Holocene and Pleistocene) Poorly sorted to unsorted clay- to boulder-sized material; mapped where landslide deposits are difficult to distinguish from colluvium (slopewash and soil creep) and where mapping separate, small, intermingled areas of landslide and colluvial deposits is not possible at map scale; locally includes talus and debris flow and flood deposits; typically mapped where landslides are thin ("shallow"); also mapped where the blocky or rumpled morphology that is characteristic of landslides has been diminished ("smoothed") by slopewash and soil creep; composition depends on local sources; 6 to 40 feet (2-12 m) thick. These deposits are as unstable as other landslide units (Qms, Qmsy, Qmso).
- Qcg **Gravelly colluvial deposits (Holocene and Pleistocene)** Gravelly materials present downslope from gravel-rich deposits of various ages (for example units Keh, Tw, Tcg, Thv, QTaf, QTa, Qafoe, Qaoe, Qafo, and Qa); may contain residual deposits; typically differentiated from colluvium and residual gravel (Qc, Qng) by prominent stripes trending downhill on aerial photographs; stripes are concentrations of gravel up to boulder size; generally 6 to 20 feet (2-6 m) thick.

Qmg, Qmg?

Mass-movement and glacial deposits, undivided (Holocene and Pleistocene) – Unsorted and unstratified clay, silt, sand, and gravel; mapped where glacial deposits lack typical moraine morphology, and appear to have failed or moved down slope; also mapped in upper Strawberry Bowl (Snow Basin quadrangle) where glacial deposits have lost their distinct morphology and the contacts between them and colluvium and talus in the cirques cannot be mapped; likely less than 30 feet (9 m) thick, but may be thicker in Mantua, James Peak, North Ogden, Huntsville, and Peterson quadrangles.



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT

FIGURE

REGIONAL GEOLOGY MAP 2

A-4b

MAP LEGEND

T	TO
IW.	Tw?

Wasatch Formation (Eocene and upper Paleocene) – Typically red to brownish-red sandstone, siltstone, mudstone, and conglomerate with minor gray limestone and marlstone locally (see Twl); lighter shades of red, yellow, tan, and light gray present locally and more common in uppermost part, complicating mapping of contacts with overlying similarly colored Norwood and Fowkes Formations; clasts typically rounded Neoproterozoic and Paleozoic sedimentary rocks, mainly Neoproterozoic and Cambrian quartzite; basal conglomerate more gray and less likely to be red, and containing more locally derived angular clasts of limestone, dolomite and sandstone, typically from Paleozoic strata, for example in northern Causey Dam quadrangle; sinkholes indicate karstification of limestone beds; thicknesses on Willard thrust sheet likely up to about 400 to 600 feet (120-180 m) in Sharp Mountain, Dairy Ridge, and Horse Ridge quadrangles (Coogan, 2006a-b), about 1300 feet (400 m) in Monte Cristo Peak quadrangle, about 1100 feet (335 m) in northeast Browns Hole quadrangle, about 2200 feet (670 m) in southwest Causey Dam quadrangle, about 2600 feet (800 m) at Herd Mountain in Bybee Knoll quadrangle, and about 1300 feet (400 m) in northwest Lost Creek Dam quadrangle, estimated by elevation differences between pre-Wasatch rocks exposed in drainages and the crests of gently dipping Wasatch Formation on adjacent ridges (King); thickness varies locally due to considerable relief on basal erosional surface, for example along Right Fork South Fork Ogden River, and along leading edge of Willard thrust; much thicker, about 5000 to 6000 feet (1500-1800 m), south of Willard thrust sheet near Morgan. Wasatch Formation is queried (Tw?) where poor exposures may actually be surficial deposits. The Wasatch Formation is prone to slope failures. Other information on the Wasatch Formation is in Tw descriptions under the heading "Sub-Willard Thrust - Ogden Canyon Area" since Tw strata are extensive near Morgan Valley and cover the Willard thrust, Ogden Canyon, and Durst Mountain areas.

- Contact, approximately located
- --?---- Contact, approximately located, queried
- Contact, concealed
- Contact, concealed, queried
- Contact, scratch, used where map units combined
- Contact, well located
- Normal fault, well located
- Thrust fault, concealed
- Thrust fault, well located
- ------ Syncline, overturned, concealed
- Bedding, strike & dip, upright
- Select spring



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT

FIGURE

REGIONAL GEOLOGY MAP 2

A-4c







LITHOLOGIC UNIT DESCRIPTIONS:

1. A/B Soil Horizon:~1-2' thick; brownish black $(5YR \frac{2}{1})$ sandy lean CLAY with gravel (CL), medium stiff to loose, moist to wet, low plasticity, massive; gravel and larger sized clasts comprise ~5-10% of the unit; clasts entirely pale yellowish orange $(10YR \frac{8}{0})$ to medium gray (N5) quartzite, subrounded to subangular and up to 10" in diameter, though mode size is ~2"; abundant plant and tree roots; grades to dark yellowish brown $(10YR \frac{4}{2})$ with depth; sharp, highly irregular basal contact.

2. Colluvium (Shallow Landslide?): $\sim 1-3'$ thick; moderate yellowish brown ($10YR\frac{5}{4}$) to light brown ($5YR\frac{6}{4}$) to pale yellowish orange ($10YR\frac{5}{8}$) silty, clayey SAND with gravel (SC-SM) gradational to sandy lean CLAY with gravel (CL), medium dense, slightly moist, low plasticity fines, massive; gravel and larger sized clasts comprise $\sim 20\%$ of the unit; clasts entirely subrounded to subangular quartzite as above, up to 8" in diameter, though mode size is $\sim 1-2$ "; abundant 1-2mm diameter pinhole voids throughout; occasional calcium carbonate matrix flour; occasional plant and tree roots; gradational, irregular basal contact.

3. Wasatch Formation: >5.5' thick; weakly consolidated conglomerate bedrock, readily disaggregates to pale yellowish orange $(10YR \frac{8}{6})$ to dark reddish brown $(10R \frac{3}{4})$ clayey GRAVEL with sand (GC) gradational to well-graded sandy GRAVEL (GW), dense to very dense, slightly moist, low plasticity fines, massive; gravel and larger sized clasts comprise ~30-60% of the unit; clasts entirely subangular to subrounded quartzite as above, up to 3' in diameter, though mode size is ~4-6''; common 1-2mm diameter pinholes where clayey; occasional to few plant and tree roots; poorly sorted and heterogenous unit; matrix supported.



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT FIGURE A-6

TEST PIT 1 LOG



LITHOLOGIC UNIT DESCRIPTIONS ON FIGURE A-7b



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT FIGURE

A-7a

TEST PIT 2 LOG

LITHOLOGIC UNIT DESCRIPTIONS:

B Soil Horizon:~ Up to 2' thick; black (N1) to brownish black $(5YR \frac{2}{1})$ sandy lean CLAY with gravel (CL), loose, wet, low plasticity, massive; gravel and larger sized clasts comprise ~25% of unit; clasts entirely medium gray (N5) to pale yellowish orange $(10YR \frac{8}{6})$ quartzite up to 1.5' diameter, though mode size is ~2-4"; clasts are subrounded; abundant plant and tree roots; sharp, planar basal contact; becomes erratically incorporated into Unit 2 downslope.

2. Young Landslide: ~2-4' thick; highly variegated between dark yellowish brown $(10YR\frac{4}{2})$, black (N1), and dark yellowish orange $(10YR\frac{6}{6})$, clayey SAND with gravel (SC) gradational to sandy lean clay (CL), loose to medium dense, moist to wet, low plasticity fines, massive; gravel and larger sized clasts comprise up to ~10-15% of the unit; clasts all subrounded quartzite as above, up to 14" in diameter, though mode size is ~2', though highly variable; highly erratic, heterogenous unit; sharp, irregular basal contact; no evident basal shear plane.

3. Old Landslide: $\sim 2-10'$ + thick; moderate yellowish brown ($10YR\frac{5}{4}$) to light brown ($5YR\frac{6}{4}$) clayey SAND with gravel (SC), medium dense, slightly moist, low plasticity fines, massive; gravel and larger sized clasts comprise $\sim 30-40\%$ of the unit; clasts entirely subangular to subrounded quartzite as above, up to 2' in diameter, though mode size is $\sim 1-2''$; abundant 1-2mm pinholes throughout; matrix-supported and poorly sorted; common to occasional plant and tree roots; similar to Unit 2 in TP-1; sharp, irregular basal contact. * $\sim 1'$ thick dark yellowish orange ($10YR\frac{6}{6}$) fat CLAY (CH) seam observed in the middle of Unit 3 on the east wall that was not observed on the west wall.

4. Weathered Bedrock (Slide Plane?): >1.5' thick; dark reddish brown ($10R_{\frac{3}{4}}$) sandy lean CLAY with gravel (CL), stiff to very stiff, slightly moist, moderate plasticity, massive; gravel and larger sized clasts comprise ~10% of the unit, all quartzite as above up to 2.5' in diameter, though mode size is ~1-2''; occasional discontinous, poorly developed slickensides observed when broken, but not in-situ.



GEOTECHNICAL AND GEOLOGIC HAZARDS ASSESSMENT LOT 14R OF SUMMIT EDEN PHASE 1A POWDER MOUNTAIN RESORT WEBER COUNTY, UT



A-7b

TEST PIT 2 LOG

	UNIFIED SOIL CLASSIFICATION SYSTEM							
	M	AJOR DIVISIONS		U SY	SCS MBOL	TYPICAL DESCRIPTIONS		
		GRAVELS	CLEAN GRAVELS	봋	GW	WELL-GRADED GRAVELS, SRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES		
		(More than half of coarse fraction	WITH LITTLE OR NO FINES		GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES		
	COARSE	is larger than the #4 sieve)	GRAVELS	2000	GM	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES		
	SOILS		12% FINES		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES		
	of material is larger than tha #200 sieve)		CLEAN SANDS WITH LITTLE		sw	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES		
		SANDS (More than half of coarse fraction is smaller than the #4 sieve)	OR NO FINES		SP	POORLY-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES		
			SANDS WITH		SM	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES		
			OVER 12% FINES		SC	CLAYEY SANDS SAND-GRAVEL-CLAY MIXTJRES		
					ML	INORGANIC SILTS & VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY		
		SILTS AND CLAYS			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS		
	FINE GRAINED SOILS (More than half of material is smaller than the #200 sieve)				OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY		
					мн	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT		
		SILTS A	ND CLAYS		СН	INORGANIC CLAYS OF HIGH PLASTICITY FAT CLAYS		
		ferderer Bregger nen ooy			ОН	ORGANIC CLAYS & DRGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY		
	HIGHLY ORGANIC SOILS			77 1 7 7 7 7	PT	PEAT, HUMUS, SWAMP SOLS WITH HIGH ORGANIC CONTENTS		

MOISTURE CONTENT

DESCRIPTION	FIELD	FIELD TEST						
DRY	ABSENCE	ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH						
MOIST	DAMP BU	DAMP BUT NO VISIBLE WATER						
WET	VISIBLE F	VISIBLE FREE WATER, USUALLY SOIL BELOW WATER TABLE						
STRATIFICATION								
DESCRIPTION	THICKNESS	DESCRIPTION	THICKNESS					
SEAM	1/16 - 1/2"	OCCASIONAL	ONE OR LESS PER FOOT OF THICKNESS					
LAYER	1/2 - 12"	FREQUENT	MORE THAN ONE PER FOCT OF THICKNESS					

APPARENT / RELATIVE DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPT (blows/ft)	MODIFIED CA. SAMPLER (blows/ft)	CALIFORNIA SAMPLER (blows/ft)	RELATIVE DENSITY (%)	FIELD TEST
VERYLOOSE	*	-4	~5	0 - 15	EASILY PENETRATED WITH 1/2-INCH REINFORCING FOD PUSHED BY HAND
LOOSE	4 - 10	5 - 12	5 · 15	15 - 35	DIFFICULT TO PENETRATE WITH 1/2-INCH REINFORCING ROD PUSHED BY HAND
MEDIUM DENSE	10 - 30	12 - 35	15-40	35 - 65	EASILY PENETRATED A FOOT WITH 1/2-INCH REINFORCING ROD DRIVEN WITH 5-LB HAMMER
DENSE	30 - 50	35 - 60	40 - 70	65 - 85	DIFFICULT TO PENETRATED A FOOT WITH 1/2-INCH REINFORCING ROD DRIVEN WITH 5-LB HAMMER
VERYDENSE	>50	>60	>70	85 - 100	PENETRATED ONLY A FEW INCHES WITH 1/2-INCH REINFORCING ROD DRIVEN WITH 5-LB HAMMER

CONSISTENCY - FINE-GRAINED SOIL		TORVANE	POCKET PENETROMETER	FIELD TEST
CONSISTENCY	SPT (blows/ft)	UNTRAINED SHEAR STRENGTH (tsf)	UNCONFINED COMPRESSIVE STRENGTH (tsf)	
VERY SOFT	<2	<0.125	<0.25	EASILY PENETRATED SEVERAL INCHES BY THUMB. EXUDES BETWEEN THUMB AND FINGERS WHEN SQUEEZED BY HAND.
SOFT	2 - 4	0.125 - 0.25	0.25 - 0.5	EASILY PENETRATED ONE INCH BY THUMB. MOLDED BY LIGHT FINGER PRESSURE.
MEDIUM STIFF	4 - 8	0.25 - 0.5	0.5 - 1.0	PENETRATED OVER 1/2 NOH BY THUMB WITH MODERATE EFFORT. NOLDED BY STRONG FINGER PRESSURE.
STIFF	8 - 15	0.5 - 1.0	1.0 - 2.0	INDENTED ABOUT 1/2 INCH BY THUMB BUT PENETRATED ONLY WITH GREAT EFFORT.
VERY STIFF	15 - 30	1.0 - 2.0	2.0 - 4.0	READILY INDENTED BY THUMBNAIL.
HARD	>30	>2.0	>4.0	INDENTED WITH DIFFICULTY BY THUMBNAIL.

KEY TO SOIL SYMBOLS AND TERMINOLOGY

Project No.	<u>02693-001</u> DAG	
Drafted By	DAG	Intermountain
Date	March 2018	Geo-Environmental Services, Inc.

LOG KEY SYMBOLS

BORING SAMPLE LOCATION

WATER LEVEL (level after completion)

WATER LEVEL Ā (level where first encountered)

SAMPLE LOCATION

TEST-PIT

CEMENTATION

Ŧ

DESCRIPTION	DESCRIPTION	
WEAKELY	CRUMBLES OR BREAKS WITH HANDLING OR \$LIGHT FINGER PRESSURE	
MODERATELY	CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE	
STRONGLY	WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE	

OTHER TESTS KEY

С	CONSOLIDATION	SA	SIEVE ANALYSIS
AL	ATTERBERG LIMITS	DS	DIRECT SHEAR
UC	UNCONFINED COMPRESSION	Т	TRIAXIAL
S	SOLUBILITY	R	RESISTIVITY
0	ORGANIC CONTENT	RV	R-VALUE
CBR	CALIFORNIA BEARING RATIO	SU	SOLUBLE SULFATES
COMP	MOISTURE/DENSITY RELATIONSHIP	PM	PERMEABILITY
CI	CALIFORNIA IMPACT	-200	% FINER THAN #200
COL	COLLAPSE POTENTIAL	Gs	SPECIFIC GRAVITY
SS	SHRINK SWELL	SL	SWELL LOAD

MODIFIERS		
DESCRIPTION	%	
TRACE	<5	
SOME	5 - 12	
WITH	>12	

GENERAL NOTES

- 1. Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual.
- 2. No warranty is provided as to the continuity of soil conditions between individual sample locations.
- 3. Lcgs represent general soil conditions observed at the point of exploration on the date indicated.
- 4. In general, Unified Soil Classification designations presented on the logs were evaluated by visual methods only. Therefore, actual designations (based on laboratory tests) may vary

C (CONSOLIDATION	SA	SIEVE ANALYSIS
٩L	ATTERBERG LIMITS	DS	DIRECT SHEAR
JC	UNCONFINED COMPRESSION	Т	TRIAXIAL
S	SOLUBILITY	R	RESISTIVITY
С	ORGANIC CONTENT	RV	R-VALUE
CBR	CALIFORNIA BEARING RATIO	SU	SCLUBLE SULFATES
COMP	MOISTURE/DENSITY RELATIONSHIP	PM	PERMEABILITY
CI	CALIFORNIA IMPACT	-200	% FINER THAN #200
COL	COLLAPSE POTENTIAL	Gs	SPECIFIC GRAVITY
SS	SHRINK SWELL	SL	SWELL LOAD



w	eat	heri	ing
			- 9

Weathering	Field Test
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Weaker minerals such as feldspar are decomposed. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with a knife. Texture preserved.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with a knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil but fabric and structure preserved. Specimens easily crumble or penetrated.

Fracturing

1. 2. 3. 4. 5. 6.

Spacing	Description
>6 ft	Very Widely
2-6 ft	Widely
8-24 in	Moderately
2 ½-8 in	Closely
3⁄4-2 1⁄2 in	Very Closely

Rock Classification Should Include:

Rock name (or classification)

Rock name (or classification) Color Weathering Fracturing Competency Additional comments indicating rock characteristics which might affect engineering properties

Bedding of Sedimentary Rocks

Splitting Property	Thickness	Stratification
Massive	>4.0 ft	Very thick bedded
Blocky	2.0-4.0 ft	Thick-bedded
Slabby	2 1⁄2-24 in	Thin-bedded
Flaggy	1⁄2-2 1⁄2 in	Very thin-bedded
Shaly or platy	1% − ½ in	Laminated
Рарегу	< ½ in	Thinly laminated

D	n	n
N,	v	ν

RQD (%)	Rock Quality	
90-100	Excellent	
75-90	Good	
50-75	Fair	
25-50	Poor	
0-25	Very Poor	

Competency

Class	Strength	Field Test	Approximate Range of Unconfined Compressive Strength (tsf)
I	Extremely Strong	Many blows with geologic hammer required to break intact specimen.	>2000
П	Very Strong	Hand-held specimen breaks with pick end of hammer under more than one blow.	2000-1000
Ε	Strong	Cannot by scraped or peeled with knife, hand-held specimen can be broken with single moderate blow with pick end of hammer	1000-500
IV	Moderately Strong	Can just be scraped or peeled with knife. Indentations 1-3 mm show in specimen with moderate blow with pick end of hammer.	500-250
v	Weak	Material crumbles under moderate blow with pick end of hammer and can be peeled with a knife, but is hard to hand-trim for triaxial test specimen.	250-10
VI	Friable	Material crumbles in hand.	N/A

KEY TO PHYSICAL ROCK PROPERTIES

Project No.	02693-001	
Engr.	DAG	
Drafted By	DAG	Intermountain
Date	March 2018	Geo-Environmental Services, Inc.

Figure A-9
APPENDIX B

Water Content and Unit Weight of Soil



(In General Accordance with ASTM D7263 Method B and D2216)

Project: Dee Lot 14 No: 02693-001 Location: Powder Mountain, UT Date: 1/16/2018 By: JDF/EH/BRR

· ·	Boring No.	TP-1	TP-2	TP-2			
Infc	Sample						
ple	Depth	3.5'	5.5'	8.0'			
am	Split	Yes	Yes	Yes			
S	Split sieve	No.4	3/8"	3/8"			
	Total sample (g)	3192.39	4130.78	3911.20			
	Moist coarse fraction (g)	663.25	1846.48	539.05			
	Moist split fraction (g)	2529.14	2284.30	3372.15			
	Sample height, H (in)						
	Sample diameter, D (in)						
	Mass rings + wet soil (g)						
	Mass rings/tare (g)						
	Moist unit wt., γ_m (pcf)						
1	Wet soil + tare (g)	952.00	2195.00	753.20			
arse	Dry soil + tare (g)	944.46	2182.54	749.63			
Co: Frac	Tare (g)	221.88	309.46	214.14			
	Water content (%)	1.0	0.7	0.7			
1	Wet soil + tare (g)	379.63	349.91	525.69			
olit Stion	Dry soil + tare (g)	369.83	340.96	497.01			
SF Frac	Tare (g)	123.04	121.47	117.94			
	Water content (%)	4.0	4.1	7.6			
1	Water Content, w (%)	3.3	2.5	6.6			
	Dry Unit Wt., γ_d (pcf)						

Entered by:	_
Reviewed:	

Liquid Limit, Plastic Limit, and Plasticity Index of Soils (ASTM D4318)



Project: Dee Lot 14 No: 02693-001			Bo	TP-1			
Location: Powder Mountain, U	Т			Depth:	3.5'		
Date: 1/16/2018	-		D	escription:	Reddish b	brown silty	clay
Grooving tool type: Plastic			Prenaratio	n method:	Air Dry		
Liquid limit device: Mechanics	đ	Liou	id limit te	st method:	Multipoir	ht	
Rolling method: Hand	11	Liqu S	creened or	ver No 40.	Voc	II.	
Ronnig method. Hand		Large	r particles	removed.	Dry sieve	d	
	Δ pr	Laige	novimum	arain siza:		u	
	Ectim	otod porcor	it rotained	on No 40:	Soo Dorti	ala Siza Di	atribution
Plastic Limit	Estilli	As receive	d water oo	off 100.40		size Dis	suidution
Determination No.	1	As-leceive	u water co	fillent (%).	5.5		1
Wet Soil + Toro (7)	1	2					
wet Soll + Tare (g)	29.37	28.46					
Dry Soil + Tare (g)	28.35	27.56					
Water Loss (g)	1.02	0.90					
Tare (g)	21.90	22.00					
Dry Soil (g)	6.45	5.56					
Water Content, w (%)	15.81	16.19					J
Liquid Limit							•
Determination No	1	2	3				
Number of Drops, N	30	22	16				
Wet Soil + Tare (g)	31.86	30.99	29.86				
Dry Soil + Tare (g)	30.13	29.21	28.24				
Water Loss (g)	1.73	1.78	1.62				
Tare (g)	22.05	21.58	21.71				
Dry Soil (g)	8.08	7.63	6.53]
Water Content, w (%)	21.41	23.33	24.81				1
One-Point LL (%)	22	23					1
				•		<u>.</u>	

Liquid Limit, LL (%)	22
Plastic Limit, PL (%)	16
Plasticity Index, PI (%)	6



Liquid Limit, Plastic Limit, and Plasticity Index of Soils (ASTM D4318)



Project: Dee Lot 14	Bo	oring No.:	TP-2			
No: 02095-001	т			Donth.	5.5'	
Dete: 1/16/2018	1		D	Deptil:	Drown ail	tri alari
Date. 1/10/2018			De	escription.	DIOWII SII	ty clay
By. DKK			Duananatia	m maathad.		
Grooving tool type: Plastic	1	т '	Preparatio	n method:	Air Dry	
Liquid limit device: Mechanica	.1	Liqu	iid limit te	st method:	Multipoin	t
Rolling method: Hand		S	creened ov	ver No.40:	Yes	
		Large	er particles	removed:	Dry sieve	d
	App	proximate 1	naximum	grain size:	3/8"	
	Estima	ated percer	nt retained	on No.40:	Not reque	sted
Plastic Limit		As-receive	d water co	ntent (%):	2.5	
Determination No	1	2				
Wet Soil + Tare (g)	30.40	28.75				
Dry Soil + Tare (g)	29.30	27.80				
Water Loss (g)	1.10	0.95				
Tare (g)	21.78	21.35				
Dry Soil (g)	7.52	6.45				
Water Content, w (%)	14.63	14.73				
Liquid Limit						
Determination No	1	2	3			
Number of Drops, N	28	21	15			
Wet Soil + Tare (g)	33.97	29.65	31.58			
Dry Soil + Tare (g)	32.05	28.27	29.85			
Water Loss (g)	1.92	1.38	1.73			
Tare (g)	21.98	21.57	21.96			
Dry Soil (g)	10.07	6.70	7.89			
Water Content, w (%)	19.07	20.60	21.93			
One-Point LL (%)	19	20				
Liquid Limit, LL (%)	20					
Plastic Limit, PL (%)	15					
Plasticity Index, PI (%)	5					
22.5		60	•			<i></i>



Liquid Limit, Plastic Limit, and Plasticity Index of Soils (ASTM D4318)



(AS111 D4310)						© 10123 20
Project: Dee Lot 14			B	oring No.:	TP-2	
No: 02693-001				Sample:		
Location: Powder Mountain, U	Т			Depth:	8.0'	
Date: 1/16/2018			D	escription:	Reddish b	orown lean clay
By: BRR				-		
Grooving tool type: Plastic			Preparatio	on method:	Air Dry	
Liquid limit device: Mechanica	1	Liqu	id limit te	st method:	Multipoir	nt
Rolling method: Hand		S	creened or	ver No.40:	Yes	
		Large	er particles	removed:	Dry sieve	ed
	Арр	proximate i	maximum	grain size:	1-1/2"	
	Estim	ated percer	nt retained	on No.40:	Not reque	ested
Plastic Limit		As-receive	d water co	ontent (%):	6.6	
Determination No	1	2				
Wet Soil + Tare (g)	29.01	30.64				
Dry Soil + Tare (g)	27.98	29.43				
Water Loss (g)	1.03	1.21				
Tare (g)	21.42	21.75				
Dry Soil (g)	6.56	7.68				
Water Content, w (%)	15.70	15.76				
Liquid Limit						
Determination No	1	2	3			
Number of Drops, N	29	22	17			
Wet Soil + Tare (g)	31.73	30.83	29.92			
Dry Soil + Tare (g)	29.66	28.82	28.11			
Water Loss (g)	2.07	2.01	1.81			
Tare (g)	21.76	21.42	21.77			
Dry Soil (g)	7.90	7.40	6.34			
Water Content, w (%)	26.20	27.16	28.55			
One-Point LL (%)	27	27				
			_			
Liquid Limit, LL (%)	27					
Plastic Limit, PL (%)	16					
Plasticity Index, PI (%)	11					
29		60				/
Flow Curve		Plas	sticity Cha	rt	/	
28.5		50				
		-			U-Lir	ne A-Line



Z:\PROJECTS\02693_Amy_Dee\001_Lot_14\[ALv2.xlsm]3

Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

(ASTM D6913)





Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

(ASTM D6913)

Exhibit B © IGES 2004, 2018



(ASTM D1140)

Project: Dee Lot 14 No: 02693-001 Location: Powder Mountain, UT Date: 1/17/2018 By: EH

	Boring No.	TP-2				
ıfo.	Sample					
e In	Depth	5.5'				
mpl	Split	Yes				
Sa	Split Sieve*	3/8"				
	Method	В				
	Specimen soak time (min)	240				
	Moist total sample wt. (g)	4130.78				
	Moist coarse fraction (g)	1846.48				
	Moist split fraction + tare (g)	349.91				
	Split fraction tare (g)	121.47				
	Dry split fraction (g)	219.49				
	Dry retained No. 200 + tare (g)	240.03				
	Wash tare (g)	121.47				
	No. 200 Dry wt. retained (g)	118.56				
	Split sieve* Dry wt. retained (g)	1834.28				
	Dry total sample wt. (g)	4029.08				
о п	Moist soil + tare (g)	2195.00			 	
arse ctio	Dry soil + tare (g)	2182.54				
Co Fra	Tare (g)	309.46				
	Water content (%)	0.67				
п П	Moist soil + tare (g)	349.91				
olit	Dry soil + tare (g)	340.96				
S <mark>1</mark> Fra	Tare (g)	121.47				
	Water content (%)	4.08				
Pe	rcent passing split sieve* (%)	54.5				
Perc	ent passing No. 200 sieve (%)	25.0				







Direct Shear Test for Soils Under Drained Conditions

Test type: Inundated

(ASTM D3080)

No: 02693-001

Location: Powder Mountain, UT

Date: 1/17/2018

Project: Dee Lot 14

By: EH

Boring No.: TP-1 Sample: Depth: 3.5'

Sample Description: Reddish brown silty, clayey sand with gravel Sample type: Arbitrary remold

Lateral displacement (in.): 0.3						
Shear rate (in./min): 0.0058						
Specific gravity, Gs: 2.70	Assumed					
	Sam	ple 1	Sam	ple 2	Sam	ple 3
Nominal normal stress (psf)	10	000	20	00	40	000
Peak shear stress (psf)	6	01	12	52	23	346
Lateral displacement at peak (in)	0.2	288	0.2	23	0.2	230
Load Duration (min)	10)26	11	21	271	
	Initial	Pre-shear	Initial	Pre-shear	Initial	Pre-shear
Sample height (in)	0.9990	0.9793	0.9950	0.9493	0.9990	0.9330
Sample diameter (in)	2.413	2.413	2.424	2.424	2.425	2.425
Wt. rings + wet soil (g)	188.28	200.98	186.31	197.10	186.81	196.12
Wt. rings (g)	44.86	44.86	42.14	42.14	41.93	41.93
Wet soil + tare (g)	243.82		243.82		243.82	
Dry soil + tare (g)	233.24		233.24		233.24	
Tare (g)	117.47		117.47		117.47	
Water content (%)	9.1	18.8	9.1	17.3	9.1	16.2
Dry unit weight (pcf)	109.6	111.7	109.6	114.8	109.6	117.3
Void ratio, e, for assumed Gs	0.54	0.51	0.54	0.47	0.54	0.44
Saturation (%)*	45.8	100.0	45.9	100.0	45.9	100.0
φ' (deg) 30		Average o	of 3 samples	Initial	Pre-shear	
c' (psf) 54		Water	content (%)	9.1	17.4	
*Pre-shear saturation set to 100% for phase calculations		Dry unit	weight (pcf)	109.6	114.6	



Entered by:_____ Reviewed:_____ 3000

4000

Direct Shear Test for Soils Under Drained Conditions

(ASTM D3080)

Project: Dee Lot 14

Boring No.: TP-1 Sample:

Location: Powder Mountain, UT

No: 02693-001

Depth: 3.5'

Nominal nori	nal stress $= 10$	00 psf	Nominal norm	nal stress $= 20$	00 psf	Nominal norn	00 psf	
Lateral	Nominal	Normal	Lateral	Nominal	Normal	Lateral	Nominal	Normal
Displacement	Shear Stress	Displacement	Displacement	Shear Stress	Displacement	Displacement	Shear Stress	Displacement
(in.)	(psf)	(in.)	(in.)	(psf)	(in.)	(in.)	(psf)	(in.)
0.000	0	0.000	0.000	0	0.000	0.000	0	0.000
0.003	12	0.000	0.003	131	-0.001	0.000	12	0.000
0.005	24	0.000	0.005	191	-0.002	0.003	155	-0.001
0.008	36	0.000	0.007	226	-0.002	0.005	202	-0.001
0.010	60 84	-0.001	0.010	274	-0.003	0.007	250	-0.002
0.012	108	-0.001	0.012	358	-0.004	0.010	333	-0.002
0.017	144	-0.001	0.017	393	-0.006	0.012	417	-0.003
0.020	168	-0.001	0.020	417	-0.006	0.017	488	-0.003
0.022	180	-0.002	0.022	465	-0.007	0.020	536	-0.004
0.024	204	-0.002	0.024	501	-0.008	0.022	607	-0.004
0.027	217	-0.003	0.027	536	-0.008	0.025	655	-0.005
0.029	229	-0.003	0.029	560	-0.009	0.027	703	-0.006
0.032	241	-0.004	0.032	584	-0.010	0.029	762	-0.006
0.034	253	-0.005	0.034	608	-0.010	0.032	858	-0.007
0.039	265	-0.006	0.039	644	-0.012	0.037	893	-0.008
0.041	265	-0.007	0.041	679	-0.012	0.039	941	-0.009
0.044	277	-0.008	0.044	703	-0.013	0.041	989	-0.009
0.046	277	-0.008	0.046	727	-0.014	0.044	1036	-0.010
0.049	289	-0.009	0.049	739	-0.014	0.046	1096	-0.011
0.051	289	-0.010	0.051	751	-0.015	0.049	1143	-0.011
0.053	301	-0.010	0.053	751	-0.015	0.051	1191	-0.012
0.056	301	-0.011	0.056	7/5	-0.016	0.054	11/9	-0.012
0.058	315	-0.012	0.038	822	-0.018	0.058	1251	-0.013
0.063	325	-0.013	0.063	834	-0.017	0.061	1298	-0.014
0.066	325	-0.013	0.065	846	-0.018	0.063	1346	-0.014
0.068	337	-0.014	0.068	858	-0.018	0.066	1394	-0.015
0.070	349	-0.014	0.070	870	-0.019	0.068	1429	-0.015
0.073	349	-0.015	0.073	894	-0.019	0.070	1465	-0.016
0.075	349	-0.015	0.075	846	-0.019	0.073	1489	-0.016
0.078	349	-0.016	0.078	894	-0.020	0.075	1465	-0.017
0.080	301	-0.016	0.080	918	-0.020	0.078	1489	-0.017
0.082	385	-0.017	0.082	930	-0.020	0.080	1560	-0.017
0.087	397	-0.018	0.087	930	-0.021	0.085	1608	-0.018
0.090	397	-0.018	0.090	930	-0.021	0.087	1632	-0.018
0.092	397	-0.019	0.092	942	-0.022	0.090	1656	-0.019
0.095	409	-0.019	0.094	966	-0.022	0.092	1679	-0.019
0.097	421	-0.020	0.097	966	-0.022	0.095	1656	-0.019
0.099	421	-0.020	0.099	989	-0.023	0.097	1679	-0.020
0.102	433	-0.021	0.102	989	-0.023	0.099	1703	-0.020
0.104	445 445	-0.021	0.104	989 1001	-0.023	0.102	1763	-0.020
0.109	445	-0.022	0.109	1013	-0.023	0.107	1705	-0.020
0.111	457	-0.022	0.111	1013	-0.024	0.109	1798	-0.021
0.114	457	-0.023	0.114	1037	-0.024	0.111	1810	-0.021
0.116	469	-0.023	0.116	1037	-0.025	0.114	1822	-0.021
0.119	469	-0.024	0.119	1061	-0.025	0.116	1858	-0.022
0.121	481	-0.024	0.121	1073	-0.025	0.119	1870	-0.022
0.123	469	-0.024	0.123	1085	-0.025	0.121	1894	-0.022
0.126	481	-0.025	0.126	10/3	-0.026	0.124	1918	-0.022
0.128	401	-0.025	0.128	1085	-0.020	0.120	1941	-0.023
0.133	493	-0.025	0.133	1109	-0.026	0.131	1965	-0.023
0.136	493	-0.026	0.136	1109	-0.026	0.133	1977	-0.024
0.138	493	-0.026	0.138	1109	-0.027	0.136	2001	-0.024
0.140	505	-0.027	0.140	1109	-0.027	0.138	2013	-0.024
0.143	505	-0.027	0.143	1109	-0.027	0.140	2025	-0.024
0.145	505	-0.027	0.145	1120	-0.027	0.143	2049	-0.025
0.148	505	-0.028	0.148	1132	-0.028	0.145	2049	-0.025
0.150	517	-0.028	0.150	1132	-0.028	0.148	2072	-0.025
0.155	517	-0.028	0.155	1132	-0.028	0.150	2084	-0.025
0.100	/	0.027	0.100	T	0.020	5.154	2001	0.020



Direct Shear Test for Soils Under Drained Conditions

(ASTM D3080)

Project: Dee Lot 14

No: 02693-001

Location: Powder Mountain, UT

Boring No.: TP-1 Sample:



Nominal normal stress = 1000 psf			Nominal norn	nal stress $= 20$	00 psf	Nominal normal stress = 4000 psf			
Lateral	Nominal	Normal	Lateral	Nominal	Normal	Lateral	Nominal	Normal	
Displacement	Shear Stress	Displacement	Displacement	Shear Stress	Displacement	Displacement	Shear Stress	Displacement	
(in.)	(psf)	(in.)	(in.)	(psf)	(in.)	(in.)	(psf)	(in.)	
0.157	517	-0.029	0.157	1156	-0.028	0.155	2108	-0.026	
0.160	517	-0.029	0.160	1156	-0.029	0.157	2108	-0.026	
0.162	517	-0.030	0.162	1156	-0.029	0.160	2120	-0.026	
0.165	529	-0.030	0.165	1168	-0.029	0.162	2132	-0.027	
0.167	529	-0.030	0.167	1180	-0.029	0.165	2144	-0.027	
0.169	529	-0.030	0.169	1180	-0.029	0.167	2156	-0.027	
0.172	529	-0.031	0.172	1180	-0.030	0.169	2168	-0.027	
0.174	529	-0.031	0.174	1180	-0.030	0.172	2156	-0.027	
0.177	541	-0.031	0.177	1192	-0.030	0.174	2180	-0.028	
0.179	541	-0.032	0.179	1204	-0.030	0.177	2180	-0.028	
0.181	541	-0.032	0.182	1180	-0.030	0.179	2203	-0.028	
0.184	541	-0.032	0.184	1204	-0.030	0.182	2203	-0.028	
0.180	541	-0.032	0.180	1204	-0.031	0.184	2203	-0.029	
0.191	541	-0.033	0.191	1204	-0.031	0.189	2227	-0.029	
0.194	541	-0.033	0.194	1216	-0.031	0.191	2239	-0.029	
0.196	541	-0.033	0.196	1216	-0.031	0.194	2251	-0.029	
0.198	541	-0.034	0.198	1228	-0.031	0.196	2251	-0.029	
0.201	541	-0.034	0.201	1228	-0.032	0.198	2263	-0.030	
0.203	541	-0.034	0.203	1228	-0.032	0.201	2275	-0.030	
0.206	541	-0.034	0.206	1228	-0.032	0.203	2287	-0.030	
0.208	541	-0.035	0.208	1228	-0.032	0.206	2299	-0.030	
0.211	553	-0.035	0.210	1228	-0.032	0.208	2299	-0.030	
0.213	553	-0.035	0.213	1228	-0.032	0.211	2299	-0.031	
0.215	553	-0.035	0.215	1240	-0.033	0.215	2299	-0.031	
0.218	553	-0.036	0.218	1240	-0.033	0.215	2299	-0.031	
0.223	553	-0.036	0.223	1252	-0.033	0.220	2323	-0.031	
0.225	553	-0.036	0.225	1252	-0.033	0.223	2323	-0.032	
0.227	565	-0.036	0.227	1252	-0.033	0.225	2334	-0.032	
0.230	553	-0.037	0.230	1252	-0.033	0.227	2334	-0.032	
0.232	553	-0.037	0.232	1252	-0.034	0.230	2346	-0.032	
0.235	565	-0.037	0.235	1252	-0.034	0.232	2334	-0.032	
0.237	553	-0.037	0.237	1252	-0.034	0.235	2346	-0.032	
0.239	553	-0.038	0.240	1252	-0.034	0.237	2334	-0.033	
0.242	555 565	-0.038	0.242	1252	-0.034	0.240	2323	-0.033	
0.244	553	-0.038	0.244	1252	-0.034	0.242	2325	-0.033	
0.249	553	-0.038	0.247	1252	-0.034	0.247	2311	-0.033	
0.252	553	-0.039	0.252	1252	-0.035	0.249	2323	-0.034	
0.254	553	-0.039	0.254	1252	-0.035	0.252	2323	-0.034	
0.256	565	-0.039	0.256	1252	-0.035	0.254	2323	-0.034	
0.259	565	-0.039	0.259	1240	-0.035	0.256	2323	-0.034	
0.261	565	-0.040	0.261	1252	-0.035	0.259	2323	-0.034	
0.264	565	-0.040	0.264	1240	-0.035	0.261	2323	-0.034	
0.266	577	-0.040	0.266	1240	-0.035	0.264	2323	-0.035	
0.269	511	-0.040	0.268	1240	-0.036	0.266	2323	-0.035	
0.271	577	-0.040	0.271	1240	-0.030	0.269	2323	-0.035	
0.275	589	-0.041	0.275	1232	-0.036	0.271	22311	-0.035	
0.278	589	-0.041	0.278	1240	-0.036	0.276	2311	-0.036	
0.281	589	-0.041	0.281	1240	-0.036	0.278	2311	-0.036	
0.283	589	-0.041	0.283	1240	-0.037	0.281	2299	-0.036	
0.285	589	-0.042	0.285	1240	-0.037	0.283	2299	-0.036	
0.288	601	-0.042	0.288	1228	-0.037	0.285	2299	-0.036	
0.290	589	-0.042	0.290	1228	-0.037	0.288	2299	-0.037	
0.293	601	-0.042	0.293	1240	-0.037	0.290	2299	-0.037	
0.295	601	-0.042	0.295	1240	-0.038	0.293	2299	-0.037	
0.297	601	-0.042	0.298	1240	-0.038	0.295	2287	-0.037	
0.300	601	-0.043	0.300	1220	-0.038	0.297	2207	-0.037	
0.300	001	-0.043	0.500	1220	-0.036	0.500	2201	-0.036	





APPENDIX C

EUSGS Design Maps Summary Report

User-Specified Input

Report Title	Lot 14R Thu March 1, 2018 20:06:25 UTC
Building Code Reference Document	2012/2015 International Building Code (which utilizes USGS hazard data available in 2008)
Site Coordinates	41.36642°N, 111.76304°W
Site Soil Classification	Site Class C – "Very Dense Soil and Soft Rock"
Risk Category	1/11/111



USGS–Provided Output

$S_s =$	0.831 g	S _{MS} =	0.887 g	$S_{DS} =$	0.592 g
S ₁ =	0.277 g	S _{M1} =	0.421 g	S _{D1} =	0.281 g

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.

From <u>Figure 1613.3.1(1)</u> ^[1]	S _s = 0.831 g
spectral response acceleration. They have been converted from corresponding geomean ground motions computed by the USGS by applying factors of 1.1 (to obtain 1.3 (to obtain S_1). Maps in the 2012/2015 International Building Code are provide Site Class B. Adjustments for other Site Classes are made, as needed, in Section 1613.3.3.	ometric n S _s) and ed for
Section 1613.3.1 — Mapped acceleration parameters	izontal
Site Class C – "Very Dense Soil and Soft Rock", Risk Category I/II/III	
2012/2015 International Building Code (41.36642°N, 111.76304°W))
Scalar Section Maps Detailed Report	

From <u>Figure 1613.3.1(2)</u> ^[2]	$S_1 = 0.277 \text{ g}$
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Section 1613.3.2 — Site class definitions

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class C, based on the site soil properties in accordance with Section 1613.

2010 ASCE-7 Standard – Table 20.3-1 SITE CLASS DEFINITIONS

Site Class	$-V_{S}$	\overline{N} or \overline{N}_{ch}	- S _u		
A. Hard Rock	>5,000 ft/s	N/A	N/A		
B. Rock	2,500 to 5,000 ft/s	N/A	N/A		
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50	>2,000 psf		
D. Stiff Soil	600 to 1,200 ft/s	15 to 50	1,000 to 2,000 psf		
E. Soft clay soil	<600 ft/s	<15	<1,000 psf		
	 Any profile with more than 10 ft of soil having the characteristics: Plasticity index PI > 20, Moisture content w ≥ 40%, and 				
	rength $\bar{s}_{\rm u} < 500$	D psf			
F. Soils requiring site response analysis in accordance with Section	See	e Section 20.3.1			

21.1

For SI: $1ft/s = 0.3048 \text{ m/s} 11b/ft^2 = 0.0479 \text{ kN/m}^2$

1 of 4

Section 1613.3.3 — Site coefficients and adjusted maximum considered earthquake spectrar response acceleration parameters

Site Class	Mapped Spectral Response Acceleration at Short Period					
	$S_s \le 0.25$	$S_{s} = 0.50$	$S_{s} = 0.75$	$S_{s} = 1.00$	S _s ≥ 1.25	
А	0.8	0.8	0.8	0.8	0.8	
В	1.0	1.0	1.0	1.0	1.0	
С	1.2	1.2	1.1	1.0	1.0	
D	1.6	1.4	1.2	1.1	1.0	
E	2.5	1.7	1.2	0.9	0.9	
F	See Section 11.4.7 of ASCE 7					

TABLE 1613.3.3(1) VALUES OF SITE COEFFICIENT $\ensuremath{\mathsf{F}_{a}}$

Note: Use straight–line interpolation for intermediate values of S_s

For Site Class = C and $S_{\rm S}$ = 0.831 g, $F_{\rm a}$ = 1.067

TABLE 1613.3.3(2) VALUES OF SITE COEFFICIENT $F_{\rm v}$

Site Class	Mapped Spectral Response Acceleration at 1-s Period					
	$S_1 \le 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \ge 0.50$	
A	0.8	0.8	0.8	0.8	0.8	
В	1.0	1.0	1.0	1.0	1.0	
С	1.7	1.6	1.5	1.4	1.3	
D	2.4	2.0	1.8	1.6	1.5	
E	3.5	3.2	2.8	2.4	2.4	
F	See Section 11.4.7 of ASCE 7					

Note: Use straight–line interpolation for intermediate values of S_1

For Site Class = C and $S_1 = 0.277$ g, $F_v = 1.523$

Equation (16-37):	$S_{MS} = F_a S_S = 1.067 \text{ x } 0.831 = 0.887 \text{ g}$				
Equation (16-38):	$S_{M1} = F_v S_1 = 1.523 \text{ x } 0.277 = 0.421 \text{ g}$				
Section 1613.3.4 — Design spectral response acceleration parameters					
Equation (16-39):	$S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3} \times 0.887 = 0.592 \text{ g}$				

Section 1613.3.5 — Determination of seismic design category

TABLE 1613.3.5(1)							
SEISMIC DESIGN	CATEGORY E	BASED	ON SHORT-	PERIOD	(0.2 second)	RESPONSE	ACCELERATION

VALUE OF S _{DS}	RISK CATEGORY				
	I or II	III	IV		
S _{DS} < 0.167g	А	А	А		
0.167g ≤ S _{ps} < 0.33g	В	В	С		
$0.33g \le S_{DS} < 0.50g$	С	С	D		
0.50g ≤ S _{DS}	D	D	D		

For Risk Category = I and S_{DS} = 0.592 g, Seismic Design Category = D

 TABLE 1613.3.5(2)

 SEISMIC DESIGN CATEGORY BASED ON 1-SECOND PERIOD RESPONSE ACCELERATION

VALUE OF S_{D1}	RISK CATEGORY				
	I or II	III	IV		
S _{D1} < 0.067g	А	А	А		
$0.067g \le S_{D1} < 0.133g$	В	В	С		
$0.133g \le S_{D1} < 0.20g$	С	С	D		
0.20g ≤ S _{D1}	D	D	D		

For Risk Category = I and S_{D1} = 0.281 g, Seismic Design Category = D

Note: When S_1 is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category \equiv "the more severe design category in accordance with Table 1613.3.5(1) or 1613.3.5(2)" = D

Note: See Section 1613.3.5.1 for alternative approaches to calculating Seismic Design Category.

References

- 1. *Figure 1613.3.1(1)*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/IBC-2012-Fig1613p3p1(1).pdf
- 2. *Figure 1613.3.1(2)*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/IBC-2012-Fig1613p3p1(2).pdf

APPENDIX D











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This model assumes c>0 and the face of the slope is saturated to depth h

