

(This SWPPP Template is for the **Common Plan** Permit Only, and  
does **NOT** address SWPPP requirements found in the CGP.)

## Common Plan SWPPP for Cardon Res.

2252 E. Lauren Lane

Liberty, Utah 84310

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Land to Sky Construction Inc.

5582 So. 700 E.

So. Ogden, Utah 84405

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Land to Sky Construction Inc.

5582 So. 700 E.

So. Ogden, Utah 84405

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Date

10/24/2016



### 1. Project Information

**Project Name:** Cardon Res.

**Address:** 2252 E. Lauren Lane

**City:** Liberty

**State:** UT

**Zip:** 84310

**Latitude:** 41.377597

**Longitude:** -111.894536

**UPDES Permit Tracking Number:** UTRH77765

**Owner:** Bryan & Tina Cardon

**Contact Person:** Kirt L. Bovero

**Address:** 5582 So. 700 E.

**City:** So. Ogden

**State:** UT

**Zip:** 84405

**Telephone Number:** 801-497-1746

**Email Address:** landtoskyconstruction@gmail.com

**General Contractor:** Land to Sky Construction Inc.

**Contact Person:** Kirt L. Bovero

**Address:** 5582 So. 700 E.

**City:** So. Ogden

**State:** UT

**Zip:** 84405

**Telephone Number:** 801-497-1746

**Email Address:** landtoskyconstruction@gmail.com

## 2. Pollution Sources/Best Management Practices

Answer yes or no whether the following features are located at your site. If yes, select the BMP(s) that will be used to protect each feature. If no, continue to the next question. Attach necessary illustrated details for proper installation in Appendix L, and show locations of all controls on Site Map in Appendix B.

- 2.1 Is there a SWPPP sign on site?** (see permit part 1.10) **Yes**  **No**   
The sign must include the UPDES tracking number, the owner or general contractor name, phone number and email, and if the SWPPP is on-line, instructions on how to view it.
- 2.2 Will there be non-stormwater discharges on the site?** (see permit part 1.3) **Yes**  **No**   
Construction Dewatering (if discharged offsite) must be covered by UPDES Permit UTG070000 (see permit part 2.7). Further, cleaning of tools and equipment must be contained in a plastic lined pit (see permit part 2.4.5 & 2.9).
- 2.3 Are wetlands, sensitive areas, or UIC wells located on or adjacent to the site?** (see permit part 2.2) **Yes**  **No**   
**BMP(s):**  Vegetative Buffers  Berms  Wattles  
 Boundary Fence  Silt Fence  
 Other: [Click here to enter text.](#)
- 2.4 Will there be stockpiles on the site?** **Yes**  **No**   
**Note:** Select "Contained by other BMP" if another BMP on your site will contain runoff from the stockpiles CANNOT be placed in the street. (see permit part 2.1.1)  
**BMP(s):**  Silt Fence  Staked Straw Wattle  Covering  
 Other: [Click here to enter text.](#)  
 Contained by other BMP. Explain: [Click here to enter text.](#)

- 2.5 Are surface waters located within 30 feet of your project's earth disturbances?** Yes  No   
**Is there a SWPPP sign on site?** (see permit part 1.10)  
**Note:** A 30' natural vegetative buffer **MUST** be used if possible. If a buffer less than 30' is used, you must demonstrate that the additional controls offer the same protection as a 30' natural vegetative buffer, and select the reason for exemption below. (see permit part 2.3.5)  
**BMP(s):**  30' Natural Vegetative Buffer  Less than 1 acre Disturbance  
 2 Silt Fence Barrier  2 Straw Wattle Barriers (Fiber Roll)  
 Less than 30' Natural Vegetative Buffer. Additional Controls: [Click here to enter text.](#)
- 2.6 Does your site have steep slopes (greater than 70%)?** (see permit part 2.3.2) Yes  No   
**BMP(s):**  Erosion Control Blanket  Minimum Disturbance  Seeding  
 Hydroseed  Mulch  Takifiers  
 Other: [Click here to enter text.](#)
- 2.7 What perimeter and sediment controls will be used on the site?** (see permit part 2.1.2 & 2.3)  
**BMP(s):**  Silt Fence  Straw Wattles (Fiber Rolls)  Sediment Trap  
 Sediment Basin  Swales  Berms  
 Vegetative Buffer  Cut-Back-Curb  
 Other: [Click here to enter text.](#)
- 2.8 What storm drain inlet protection will be used on this site?** (see permit part 2.1.3)  
**Where is/are the nearest downstream inlet(s):** [Click here to enter text.](#)  
**BMP(s):**  Rock/Sand-filled Bags  Drop Inlet Bags  Inlet Wattles  
 Filter Fabric  
 Other: [Click here to enter text.](#)
- 2.9 Will curb ramps be used at the site?** Yes  No   
**Note:** If curb ramps are used it must be done with material that will not wash away in stormwater. (see permit part 2.4.2)  
**BMP(s):**  Crushed Rock  Wood Dunnage  
 Other: [Click here to enter text.](#)
- 2.10 What dust control BMP(s) will be used?**  
**BMP(s):**  Wetting with Water  
 Other: [Click here to enter text.](#)
- 2.11 What track out control will be used on the site?** (see permit part 2.4.1)  
**BMP(s):**  Track Out Pad  Cobble  Gravel  
 Rumble Strips  Wash Down Pad  Delivery Pad  
 Limited Site Access  Selective Access During Dry Weather  
 Other: [Click here to enter text.](#)
- 2.12 How will solid waste be dealt with on the site?** (see permit part 2.4.3)  
**BMP(s):**  Bag Lightweight Trash  Leak Proof Dumpsters  Receptacles with Lids  
 Other: [Click here to enter text.](#)
- 2.13 How will non-aqueous liquid waste (oil, solvent, fuel) be dealt with on the site?**  
**BMP(s):**  Contained and Removed from the site.  Collected for Reuse  
 Other: [Click here to enter text.](#)
- 2.14 How will spoils (extra or left over dirt) be contained/managed?**  
**BMP(s):**  Cover Erodible Material  Runoff Containment  Haul Off Policy  
 Other: [Click here to enter text.](#)

- 2.15 How will sanitary waste be handled on the site?** (see permit part 2.4.4)  
**BMP(s):**  Portable Toilet(s) (*must be staked down & 10' from curb*)  
 Onsite or Adjacent Indoor Bathrooms  
 Portable Toilet Secondary Containment  
 Other: [Click here to enter text.](#)
- 2.16 How will concrete wash water be contained on the site?** (see permit part 2.4.5 & 2.9.1)  
**BMP(s):**  Lined Depression  Steel Dumpster  
 Regional Washout (per development)  
 Other: [Click here to enter text.](#)
- 2.17 What controls will be used for construction materials stored on site?**  
**BMP(s):**  Covering Erodible or Liquid Materials  Secondary Containment  
 Strategic Storage and Staging  
 Other: [Click here to enter text.](#)
- 2.18 What controls will be in place for equipment fueling, maintenance, and washing?**  
**BMP(s):**  Fueling w/Mobile Track w/Spill Kit  Offsite O+M  
 Other: [Click here to enter text.](#)
- 2.19 How will sediment be contained on site until home owner completes landscaping?**  
**BMP(s):**  Landscaping  Swales  Rock Filters  
 Perimeter Controls  Vegetated Buffer  Native Vegetative Barriers  
 Cut-Back-Curb  Leave Front-Yard Lower than Sidewalk  
 Other: [Click here to enter text.](#)

*Note that any maintenance required to ensure proper BMP functioning must be done within 72 hours of becoming aware of compromised BMP.*

### 3. Site Map

On a blank page (or include a page from the architectural drawings that show site layout and dimensions), please draw a chart (and place this chart in Appendix B) showing the layout of the site including locations of:

1. boundaries of project/property
2. boundaries of disturbance (including areas outside of property boundaries)
3. show slopes on site
4. location of structures/facilities
5. locations of :
  - a. stockpiles for soils and materials
  - b. construction supplies
  - c. portable toilets
  - d. garbage/trash containers
  - e. egress points/track out pads
  - f. concrete washout pits or containers
6. water bodies, wetlands, natural vegetative buffers
7. placement of all BMPs, perimeter, erosion control, sediment control, inlet, etc.
8. storm water inlets and storm water discharge points (where storm water drains off the site)
9. areas that will be temporarily or permanently stabilized on the site

#### 4. Spill Prevention and Response Plan

Describe the spill prevention and control plan to include ways to reduce the chance of spills, stop the source of spills, contain and cleanup spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control. Additionally, fill in all  fields below.

**Spill Plan:**

Store hazardous substances not used daily in cabinets, or in designated areas.- All chemicals that are transferred from larger to smaller containers must be transferred by use of a funnel or spigot.- All hazardous substance containers should be closed while not in use;- Use drip pans or other collection devices to contain drips or leaks from dispensing containers or equipment;- Implement preventative maintenance activities to reduce the potential for release from equipment;-

Immediately clean up and properly manage all small spills or leaks;- Periodically inspect equipment and hazardous substance storage areas to ensure leaks or spills are not occurring;- Use signage to identify hazardous substance storage or waste collection areas;- Keep all work areas and hazardous substance storage areas clean and in good general condition

Any discharges in 24 hours equal to or in excess of the reportable quantities listed in 40 CFR 117, 40 CFR 110, and 40 CFR 302 will be reported to the National Response Center and the Division of Water Quality (DWQ) as soon as practical after knowledge of the spill is known to the permittee. The permittee shall submit within 14 calendar days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and measures taken and/or planned to be taken to the Division of Water Quality (DWQ), 288 North 1460 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870. The Storm Water Pollution Prevention Plan must be modified within 14 calendar days of knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

Agency	Phone Number
National Response Center	(800) 424-8802
Division of Water Quality ( DWQ) 24-Hr Reporting	(801) 538-6146; (801) 536-4123
Utah Department of Health Emergency Response	(801) 580-6681
Fire Department	(801) 782-3580

Minimum spill quantities requiring reporting:

Material	Media Released To	Reportable Quantity
Engine oil, fuel, hydraulic & brake fluid	Land	25 gallons
Paints, solvents, thinners	Land	100 lbs (13 gallons)
Engine oil, fuel, hydraulic & brake fluid	Water	Visible Sheen
Refrigerant	Air	lib
Antifreeze, battery acid, gasoline, engine degreasers	Air, Land, Water	100 lbs (13 gallons)

Emphasis to:

- 1<sup>st</sup> Priority: Protect all people (including onsite staff)
- 2<sup>nd</sup> Priority: Protect equipment and property
- 3<sup>rd</sup> Priority: Protect the environment

1. Make sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
2. Check for hazards (flammable material, noxious fumes, cause of spill) - if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
3. Stop the spill source and contain flowing spills immediately with spill kits, dirt or other material that will achieve containment.
4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers
5. If spilled material has entered a storm sewer, regardless of containment; contact the City Stormwater Division.
6. Cleanup all spills (flowing or non-flowing) immediately following containment. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials AND DO NOT FIUSH AREA WITH WATER.
7. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.
8. Report the reportable quantity to the Saratoga Springs City Stormwater Division.

**Emergency Numbers**

Utah Hazmat Response Officer 24 hrs	(801)-538-3745
City Police Department	(801)-629-8221
City Engineering Division	(801)-399-8374

## 5. SWPPP, Inspections and Corrective Action Reports

**Inspection Schedule and Procedures:** The permit requires inspections once a week (see permit Part 3). You must list and provide details of your BMPs in Appendix L. Inspection reports require reporting on BMPs and how effective they are. You may be required to maintain, modify, remove, or apply/install more or different BMPs to control pollutants on the site. Please number your BMPs in Appendix L and refer to those numbers on your inspection reports and corrective action reports when you inspect or report on them.

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Check all BMPs to see if working properly, if not fix all necessary problems daily, clean streets daily fix any foreseen problems

**Corrective Actions:** All corrective actions must be logged using the "Correction Action Log" attached in Appendix F. The log should be filled out completely for each corrective action.

## 6. Changes to the SWPPP

All changes to this SWPPP must be logged in the "Amendment Log" in Appendix G. The log should be filled out completely for each amendment to the SWPPP.

## 7. Record Keeping

The following items should be kept at the project site available for inspectors to review:

1. Dates of grading, construction activity, and stabilization
2. A copy of the construction general permit (Appendix C)
3. The signed and certified NOI form (Appendix D)
4. Inspection reports (Appendix E)

## 8. Delegation of Authority (if any)

Duly Authorized Representatives or Positions:

Company/Organization: Land to Sky Construction Inc.

Name: Kirt L. Bovero

Position: President

Address: 5582 So. 700 E.

City: So. Ogden

State: UT

Zip: 84405

Telephone: (801)497-1746

Fax/Email: (XXX) XXX-XXXX

**Note:** Any additional information (i.e. memoranda, agreements, etc.) should be attached in Appendix H.

## 9. Discharge Information

Does your project/site discharge storm water into a Municipal Separate Storm Sewer System (MS4)?

Yes                       No

MS4 receiving the discharge from the construction project: [Click here to enter text.](#)

**Receiving Waters (look up <http://wq.deq.utah.gov> to identify your receiving water body)**

Enter the name(s) of the first surface water(s) that receives stormwater directly from your site and/or from the MS4 listed above. **Note:** *multiple rows provided in the case that your site has more than one point of discharge in which each flows to different surface waters.*

1. **North Fork of Ogden River**
2. **Pine View Resivor**
3. [Click here to enter name of receiving waters.](#)
4. [Click here to enter name of receiving waters.](#)

**Impaired Waters (refer to <http://wq.deq.utah.gov> in the left hand column to determine status of receiving water body).**

Select any impaired surface water(s) that your site will discharge to, either directly or through the MS4 selected above.

Impaired Surface Water	Is this surface water impaired?	Pollutant(s) causing the impairment	Has a TMDL been completed?	Pollutant(s) for which there is a TMDL
<a href="#">Click here to enter text.</a>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<a href="#">Click here to enter text.</a>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<a href="#">Click here to enter text.</a>
<a href="#">Click here to enter text.</a>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<a href="#">Click here to enter text.</a>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<a href="#">Click here to enter text.</a>



## 10. Certification and Notification

I, Name of Authorized Construction Operator Representative, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**X**

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Construction Operator:

This SWPPP should be signed and certified by the construction operator(s). Attach certifications in Appendix H.

## **SWPPP Appendices**

Ensure the following documentation is attached to the SWPPP:

**Appendix A: General Location Map**

**Appendix B: SWPPP Site Maps**

**Appendix C: Construction General Permit Regulation**

**Appendix D: Acknowledgement Letter from City Name Here.**

**Appendix E: Inspection Reports**

**Appendix F: Corrective Action Log**

**Appendix G: SWPPP Amendment Log**

**Appendix H: Certifications, Agreements, and Delegation of Authority**

**Appendix I: Grading and Stabilization Activities Log**

**Appendix J: Construction Plans**

**Appendix K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)**

**Appendix L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)**

**APPENDIX A: Site Map**



Imagery ©2016 Google, Map data ©2016 Google 200 ft

# Google Maps 2252 E Lauren Ln



Imagery ©2016 Google, Map data ©2016 Google 200 ft



**2252 E Lauren Ln**  
Liberty, UT 84310



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APPENDIX B: SWPPP Site Maps

In Folder sleeve AT BACK



**APPENDIX C: Construction General Permit Regulation**

**General Permit for Storm Water Discharges from Construction Activities**  
STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY,  
DIVISION OF WATER QUALITY

General Storm Water Permit for Construction Activity  
Connected with Single Lot Housing Projects  
Utah Pollution Discharge Elimination System Permit No. UTRH00000  
(Common Plan Permit)

This Permit is issued in compliance with the provisions of the Utah Water Quality Act (Utah Code Annotated 19-5, as amended) the federal Water Pollution Control Act (33 United States 1251 et. seq., as amended by the Water Quality Act of 1987, Public Law 100-4), and the rules and Regulations made pursuant to those statutes.


This permit applies to "construction activity" for a single lot disturbing a total of one acre or less and for construction activities related to residential dwellings. A single lot covered by this permit is part of a common plan of development or sale (see definitions in Part 6).

Issuance of this permit does not authorize any permittee to violate water quality standards. The permittee shall develop best management practices (BMPs) and engage in activities that will protect water quality during the construction project.

This permit shall become effective on February 1, 2016.

This permit and the authorization to discharge expire at midnight on January 31, 2021.

Signed this 20 day of January, 2016

  
Walter L. Baker, P.E.  
Director



DWQ-2016-002081

*Js*



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General Storm Water Permit for Construction Activity Connected with Single Lot Housing Projects  
UPDES Permit No. UTRH00000

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1. COVERAGE UNDER THIS PERMIT. Conditions for coverage under this permit.
  - 1.1. Coverage Limitations. A project site (see definition of a project site in Part 6) is eligible for this permit if it meets the following requirements:
    - 1.1.1. It is found within the State of Utah but is not in Indian Country,
    - 1.1.2. The construction activity is related to residential building on an individual lot or parcel.
    - 1.1.3. It disturbs a total of one acre or less over the duration of the construction project,
    - 1.1.4. *Multiple site coverage*:
      - 1.1.4.a. This permit may apply to multiple lots with the contingency that each lot be covered under a different permit tracking number (separate permit coverage for each lot). Lots do not necessarily need to be located within the same sub-division.
      - 1.1.4.b. If multiple lot coverage is desired under one permit, it may be obtained under the General Permit for Discharges from UPDES Permit No. UTRC00000. Multiple lots may be covered under one tracking number (one permit coverage) provided that UTRC00000 is the controlling permit, and all lots covered under that tracking number are within the same sub-division.
  - 1.2. Discharges Allowed. This permit allows discharges of storm water from construction activity at a project site, provided the storm water discharge meets the requirements within this permit.
  - 1.3. Non-Storm Water Discharges. Other non-storm water discharges that are allowed are:
    - 1.3.1. Flushings from potable or irrigation water sources where they have not been used for a washing or cleaning activity;
    - 1.3.2. Water used for dust control;
    - 1.3.3. Spring water and groundwater that have not been soiled with sediment or other pollutants from construction activity;
    - 1.3.4. Emergency fire-fighting activities, and;
    - 1.3.5. Footing drains that have not been soiled from construction activity.
  - 1.4. How to Obtain Permit Coverage. The permit may be obtained online at the Utah Department of Environmental Quality (DEQ) UPDES Permits website at <http://www.waterquality.utah.gov/UPDES/stormwatercon.htm>. Click on "Application for a Storm Water Permit". Create an account, or if an account has already been created, proceed with providing the information requested. **The notice of intent (NOI) for this permit is the same NOI that is used for the UTRC00000 permit.** To complete the application process the permittee must pay a permit fee. The NOI may be filled out electronically using the online permit application system. The NOI can also be submitted using a paper form obtained from the same website cited above along with the permit fee. The paper form and fee can either be hand delivered to Utah Division of Water Quality [DWQ], 195 North 1950 West, Salt Lake City, Utah, 3rd floor in the MASOB building, or mailed to DWQ, P.O. Box 144870, Salt Lake City, Utah 84114-4870. When a party receives coverage under the permit, they will receive a permit

tracking number and the opportunity to copy the NOI for "proof of coverage." A copy of this permit may be downloaded from the DEQ website at <http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm>.

- 1.5. Signature on the NOI. The owner and the general contractor, which in some cases could be the same party, must sign the paper copy of the NOI (see 5.16.1.a) and place it in the storm water pollution prevention plan (SWPPP) (see 4.2.8).
- 1.6. Permit Renewal. This permit must be renewed yearly on the anniversary date of the original permit application. This is done by logging onto the account created at the time of NOI application, refreshing the information on the NOI, and paying the yearly permit fee.
- 1.7. Start and end of Permit Coverage. Permit coverage begins immediately upon completion and submission of an NOI and the permit fee. If the NOI is submitted electronically on-line permit coverage begins on that day. If the NOI is submitted by mail permit coverage begins when the NOI is received and entered into the on-line data base by DWQ staff. For projects within the jurisdiction of a regulated MS4 (see definitions in Part 6; the list of regulated MS4's is found on <http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm>), the permittee must also notify and receive approval for the project from the regulated MS4 having jurisdiction before the project may commence (see 4.2.10.). The permit fee is an annual fee that must be paid yearly on the anniversary date of permit issuance. The permit will remain effective until or unless any of the following occurs:
  - 1.7.1. The permittee completes the notice of termination (NOT) process, as outlined in section 1.8,
  - 1.7.2. The permittee fails to submit the yearly permit fee,
  - 1.7.3. Aside from permit coverage, which may be renewed annually by the permittee, as needed, this general permit expires every 5 years and normally is renewed through a public notice process by DWQ. In the event that the permit nears the end of its 5 year cycle, and the year of permit coverage for a construction site extends beyond the expiration date for the permit, the permittee must request continuing coverage through the permit renewal process. Otherwise permit coverage for a construction site will terminate when the general permit expires. Renewal of permit coverage can be done in the online electronic storm water data base up to 12 months prior to the expiration of the permit, or by letter received by DWQ before the expiration date of the specific permit coverage in question where concurrently all entries in the NOI can be updated as needed.
    - 1.7.3.a. If a renewal permit has been issued and is in place at the expiration date of this permit, this permit will terminate and coverage under the renewed permit will begin on the expiration date unless 1.7.1 has been invoked by the permittee.
    - 1.7.3.b. If a renewal permit has not been issued, this permit will be administratively extended until a renewal permit is issued or it is determined that this permit will not be continued. If a renewal permit is issued, and the permittee indicated a desire for continuing coverage under the new permit, coverage

will continue for the permittee under the new permit coverage unless 1.7.1 is invoked. If the permit is discontinued, the permittee must continue coverage under another general permit or an individual permit.

- 1.7.4. Coverage under this permit is rescinded or revoked for administrative reasons. In this case, the permittee will be notified in writing from the Director and will be required to apply for coverage under a different general or individual UPDES permit. This permit is terminated on the day coverage under another permit begins.
- 1.8. Notice of Termination. The permittee must terminate the permit by submitting an NOT when the project is completed. The NOT must be filed and retained for 3 years after the permit has been terminated (see 3.7). To terminate the permit, the permittee must comply with either 1.8.1 or 1.8.2, outlined below, and must comply with 1.8.3 if the project is within the jurisdiction of a regulated MS4 (see <http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm> for regulated MS4s):
- 1.8.1. The landscaping is completed and the site meets “final stabilization” requirements (see part 6, definitions, for final stabilization).
- 1.8.2. When a project (residential building) is completed but ‘final stabilization’ is not established, the building must be in process of being sold and ready for homeowners to take possession. If built by the homeowners, they must be in the process of moving in or already have moved in the house. The lot must have perimeter controls on downslope boundaries and surface stabilization controls on all surfaces that are 20 % (1 to 5 slope, or 11.3 degrees) or greater to prevent erosion and soil migration offsite;
- 1.8.3. The permittee must submit a paper copy of a NOT form to the MS4 of jurisdiction and schedule a final inspection (with the MS4). Termination is complete upon approval of the final inspection from the local MS4, or from DWQ if outside the jurisdiction of a regulated MS4.
- 1.9. Water Quality: Through the design of appropriate BMPs, it is expected that the permittee will achieve compliance with water-quality standards. If additional information becomes available indicating a project site is causing or is contributing to a violation of water quality standards or an existing total maximum daily load (TMDL), coverage under this permit may be revoked or rescinded, and the permittee may be required to get coverage under an individual UPDES permit or another UPDES general permit. If this occurs, the owner and the general contractor will be notified in writing by the Director and given instructions on how they must proceed.
- 1.10. Requirement to Post a Notice of Permit Coverage. The permittee must post a sign at the project site that includes the UPDES Permit tracking number, owner or general contractor contact name, a phone number for the owner or general contractor, an email address for the owner or general contractor, and in the case of an electronic SWPPP, a web address or information on how to access the electronic SWPPP. The notice must be posted with lettering large enough to be readable from a public right-of-way.

## 2. POLLUTION PREVENTION REQUIREMENTS

### 2.1. Structural Controls. Minimize sediment transport off the site as follows:

2.1.1. *Stockpiled Material*. Stockpiled material must not be stored on an impervious surface, except a material that will not be transported with precipitation, such as two-inch graded and washed gravel, unless it will be permanently placed and the holding area will be swept clean the same day it is dropped. If stored temporarily for more than a day, it must be placed as far as feasibly possible from roads or other impervious surfaces, storm water inlets, or water bodies, and with stockpile perimeter runoff controls utilized.

2.1.2. *Perimeter Controls*. Perimeter controls such as silt fences, straw wattles, other filter berms, cut back curbs, vegetative buffers, etc., must be properly placed on the downslope sides of the project to prevent sediment from leaving the site during a storm event. As perimeter controls become loaded to 1/3 of capacity, they must be cleaned.

2.1.3. *Inlet Protection*. Storm-drain inlets on the project site and on adjacent roads immediately down gradient from the site must be protected if they receive drainage from the active construction site. Protection may be, but is not limited to, rock wattles, sand bags, proprietary devices, or other. Rock wattles and sand bags are not advised for use in winter because they can be destroyed or removed by snow plows.

2.2. Protection of Critical or Sensitive Areas: Critical or sensitive areas such as preservation of the drip line around trees, wetlands, buffer zones by water bodies, etc., must be separated and isolated by clearly marking the areas with environmental fencing.

### 2.3. Managing the Site to Minimize Sediment Transport Offsite.

2.3.1. The total area of soil disturbance at any one time must be minimized by disturbing only the area necessary to complete that stage of construction in the construction process.

2.3.2. Soil disturbances on steep slopes must be minimized. For purposes of this permit a steep slope is 70% (or 1 to 1.66, or 35 degrees), or greater. This means avoiding a disturbance of soils on steep slopes or if disturbing the soil surface is necessary providing a robust surface stabilizing cover (such as geomats, environmental blankets, or other robust slope stabilizing control) to prevent erosion.

2.3.3. Storm water volume and velocity must be controlled to minimize soil erosion and sediment transport by methods such as allowing or not obstructing infiltration and using velocity-control devices to reduce energy in runoff flowing on slopes.

2.3.4. Storm water discharges leaving the site, including both peak flowrates and total storm water volume, must be controlled to minimize channel and stream-bank erosion and scour in the immediate vicinity of discharge points. This may be accomplished using experience, estimates, and good judgement; unless unusual or extraordinary site conditions present a potential for excessive erosion, hillside/impoundment collapse, environmental/safety hazards, or other site problems; for which a professional engineer must be consulted.

2.3.5. *Thirty-Foot Vegetative Buffer.* If a waterbody is adjacent to, within 30 feet from, or passing through the project boundaries, a 30-foot natural buffer between the waterbody and construction activity must be provided. If a 30-foot natural buffer cannot be provided, a substitute control measure equivalent to the 30-foot buffer must be provided, or the SWPPP must contain an explanation why neither is feasible. If it is not feasible to maintain a 30-foot natural buffer, as much natural buffer as is possible must be preserved and coupled with placement of additional erosion and sediment controls designed, implemented, and maintained to substitute and be equivalent to the 30-foot natural buffer.

The requirement for a natural buffer or substitute controls does not apply to any area outside of the project boundaries, but if a waterbody is within, for example, 20 feet from the project boundary, there must be 10 feet of natural vegetative buffer or substitute controls, or if within 25 feet from the project boundary, there must be 5 feet of natural vegetative buffer or substitute controls, and so forth.

2.3.5.a. Substitution for a natural buffer should be calculated with models such as USDA's RUSLE2 or WEPP, or by using SEDCAD, SEDIMOT, or other similar models. In lieu of using a model for calculation of a substitution buffer, the permittee shall deploy the following:

2.3.5.a.i. For every full 9 feet of natural buffer that is not provided on slopes up to 10 percent, one row of an effective perimeter control, such as a silt fence, staked straw wattle, proprietary or other filter berm, or other perimeter control, must be properly placed. For example, if only 15 feet of natural buffer can be provided, the permittee will substitute one row of a perimeter control in addition to the 15 feet of natural buffer to make up for the 15 feet of buffer that could not be preserved.

2.3.5.a.ii. In addition to the requirements above for substitutions in place of the 30-foot natural buffer, on slopes between 10 percent and 30 percent, five feet of surface stabilization must be placed down gradient of and between each perimeter control substituted. For slopes steeper than 30 percent, 6 feet of surface stabilization must be placed downgradient of and between each perimeter control substituted, such as mulch, hydromulch, wood chips, bark, compost, erosion mat, etc., but excluding tackifiers.

2.4. Good Housekeeping Measures. The permittee must address the following:

2.4.1. *Track Out.* Track-out pads (see definitions) and or rumble strips (see definitions) must be used to prevent dirt/mud tracked on streets as vehicles leave the site. If traffic onto and off the site is not frequent, a site operator may impose a blanket prohibition of vehicle traffic onto the site, allowing for the occasions to deliver and unload, but afterwards providing sweeping and/or cleaning of tracked out dirt (keep in mind that vehicles leaving a muddy site with no track out protection can track mud for several

- blocks – the operator is liable for all track out from the site except for a dirt stain after sweeping -- see note after 3.2.2.). Dirt or mud tracked out on the street must not be washed or hosed into a storm drain. Tracked out mud or dirt on the street must be swept and/or scraped up as needed every day (see 3.2.2).
- 2.4.2. *Curb Ramps*: This permit prohibits the intentional placement of dirt and/or mud on paved streets or sidewalks. Curb ramps may be crushed rock, wood or steel ramps, or another material that does not wash away with storm water.
- 2.4.3. *Waste and Debris*. The site must be cleaned of waste and debris daily (see daily self-inspection 3.2.2). Waste and debris must be contained and secured adequately to prevent scattering from wind until it is removed from the site and disposed of properly.
- 2.4.4. *Portable Toilet*. Portable toilets must be tied down, staked down, or secured using other measures to prevent turn over, and they must be placed away from a road gutter, storm water inlet, or waterbody.
- 2.4.5. *Washing of Concrete, Stucco, and Paint Equipment*. A plastic film-lined pit or sealed container must be provided for washout of equipment used for concrete, stucco, and water-based paint. After completion of concrete, stucco, and paint tasks, the permittee must dispose of the waste by drying and sending solids to a landfill. Oil-based paint cleanout must be done in containers, taken off-site, and disposed of separately.
- 2.5. Soil Compaction/Top Soil. Topsoil must be preserved and placed on areas to be landscaped or areas planned for receiving vegetative cover, unless infeasible. Soil compaction must be minimized on areas that will not be used for support of structural elements such as roads, parking areas, structures, etc., unless infeasible.
- 2.6. Stabilization Requirement. Stabilization requirements are as follows:
- 2.6.1. *Stabilization requirements for areas that receive 20 inches of rainfall annually or greater*: Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site or have temporarily ceased on any portion of the site for greater than 14 calendar days. Stabilization can be sodding, planting, application of mulch (wood chips, rock, gravel, bark, compost, cat tracking on straw, hydromulch, etc.), application of geotextiles or erosion blankets, application of a tackifier, seeding (including preparation for germination and growth), a combination of these methods, or other method.
- 2.6.2. *Stabilization or equivalent requirements for arid and semi-arid areas (areas receiving less than 20 inches of rainfall annually)*: Stabilization for visually flat areas is not required (roughly up to 5 percent, 1 to 20 slope, or 2.3 degrees slope). Areas with slopes up to roughly 20 percent (1 to 5 slope or 11.3 degrees) must have, at minimum, velocity-control devices in every area where storm water collects and flows, spaced close enough across the flow to stop erosion (see also 2.3.3). Soil surface stabilization such as sodding, planting, hydromulch, compost, bark, cat tracking on straw, gravel,



geotextiles, erosion blankets, or other stabilization methods is required on all other sloped areas, increasing the robust nature of stabilizing cover commensurately with increasingly steeper slopes.

2.6.3. *Permanent Stabilization for Arid areas.*

2.6.3.a. In addition to requirements above (see 2.6.2), permanent stabilization requires seeding on all areas that are not covered with permanent stabilization elements or structural elements such as building structure or pavement, or that are engineered or intended for structural purposes like graveled parking or dirt roads.

2.6.3.b. Disturbed areas on projects located outside of populated and developed areas and where no irrigation water is available and where future periodic landscaping maintenance is not planned must be reclaimed with a seed mix of plants indigenous to the area or tolerant to the local climatic conditions that does not include invasive species. Velocity-control devices may be permanent or temporary. If velocity-control devices are intended for temporary use, they must be biodegradable and designed durable enough to withstand extreme weather.

2.7. Construction Dewatering. Construction dewatering can occur onsite without an additional UPDES permit if it is infiltrated or contained onsite and is not discharged offsite. Otherwise, construction dewatering discharges must be permitted under the General Permit for Construction Dewatering and Hydrostatic Testing UPDES Permit UTG070000, which can be obtained online through submittal of an NOI at <https://secure.utah.gov/waterquality>.

2.8. Pollution Prevention Measures. The permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must address the following:

2.8.1. *Vehicle, Wheel, and Other Washing.* Minimize the discharge of pollutants from equipment and vehicle washing, wheel-wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge

2.8.2. *Exposure to Pollutants.* Minimize the exposure of building materials, building products, construction wastes, trash (see 2.4.3), landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste (see 2.4.4), and other materials present on the site to precipitation and to storm water. Minimization of exposure is not required in cases where the exposure to precipitation and to storm water will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of storm water contamination (e.g., final products and materials intended for outdoor use).

2.8.3. *Leaks and Spills.* Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

2.9. Prohibited Discharges. The following discharges are prohibited:

2.9.1. Wastewater from washout or cutting of concrete (see 2.4.5),

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- 2.9.2. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials (see 2.4.5),
- 2.9.3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance,
- 2.9.4. Soaps or solvents used in vehicle and equipment washing.

### 3. SELF-INSPECTION REQUIREMENTS.

3.1. Inspector Qualifications. Weekly inspections (see 3.2.1 below) must be done by a qualified person. A qualified person means a person knowledgeable in the principles and practices of erosion and sediment control that possesses the skills to:

- 3.1.1. Assess conditions at the construction site that could impact storm water quality,
- 3.1.2. Assess the effectiveness of a storm water control measure selected to control the quality of storm water discharges from the construction activity.

### 3.2. Self-Inspections.

3.2.1. *Weekly Self Inspections:* Self-inspections must occur every 7 days. A written report is required (see 3.4).

3.2.2. *Daily Site Check:* Each day of construction activity, the site must be inspected for dirt in the street and trash on the site. Streets must be swept clean (see note below), if soiled. Dirt must be removed off the street (not swept or washed into the storm drain system). Trash on the site must be picked up and disposed of into trash containers (see 2.4.3.) or disposed of off-site (e.g., municipal/private garbage collection service or construction waste landfill). Sub-contractors must be held responsible by the permit holder to perform these duties in accordance with this paragraph for the activities they are contracted to perform. A written report is not required, however the operator will keep a daily log (for the active construction days) listing the initials of the person doing the site check.

*Note: Swept clean means sweeping and scraping. Scraping if there is dirt left behind that is crusted and that sweeping will not pick up. This does not mean removing the microscopic layer of dust or the minute amounts of dirt in the cracks and crevices of the surface left behind staining the pavement.*

### 3.3. Weekly Self-Inspection Requirements.

3.3.1. *Areas to check include the following:*

- 3.3.1.a. Areas that have been cleared, graded, or excavated that are not stabilized,
- 3.3.1.b. All storm water control measures, including perimeter controls,
- 3.3.1.c. Material piles, waste-disposal containers, sanitary facilities, loose trash, litter, washout areas, portable toilets, track out pad, egress points (if any), etc.,
- 3.3.1.d. Storm water conveyances through the site, treatment areas, and drainages,
- 3.3.1.e. All storm water discharge points, street gutters, storm water inlets,
- 3.3.1.f. Areas that have been temporarily stabilized,
- 3.3.1.g. Areas that have been permanently stabilized and are completed do not need further inspections.

3.3.2. *Items to check include the following:*

- 3.3.2.a. All erosion and sediment controls and other pollution prevention controls

have been installed, are operational, and are working as intended to minimize pollutant discharges. Determine if any controls need to be replaced, repaired, or maintained.

3.3.2.b. Identify any locations where new or modified storm water controls are necessary.

3.3.2.c. Signs of visible erosion and sedimentation (i.e., sediment deposits) that have occurred and are attributable to discharges from your site,

3.4. Weekly Inspection Reports. The weekly self-inspection report must be written within 24 hours of inspection and must include:

3.4.1. The initials of the person doing the inspection,

3.4.2. The date of the inspection,

3.4.3. The weather during the inspection,

3.4.4. The problems that were found needing correction (as they pertain to 3.3.1 and 3.3.2 above),

3.4.5. The date when corrective action is completed,

3.4.6. All self-inspection reports must be filed with other permit records regarding the permit. Inspection reports must be available during an oversight inspection.

3.5. Corrective Action: Corrective action must be completed before the next weekly inspection.

3.6. Inspections by an Oversight Authority. A copy of an oversight inspection report must be filed and be available for review during other oversight inspections.

3.7. Record Keeping. Records regarding this permit, the NOI, the NOT, the SWPPP, inspection reports, other related information and documents must be preserved for 3 years after the submission of the NOT (see 5.10).

4. STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

4.1. SWPPP Requirement. The permittee must prepare a SWPPP before the NOI for the project is submitted. The SWPPP must address all the applicable requirements in Part 2.

4.1.1. *SWPPP Site Design*. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation; the nature of resulting storm water runoff; and soil characteristics, including the range of soil particle sizes expected to be present onsite. These may be accomplished using experience, estimates, and good judgement, unless unusual or extraordinary site conditions create hazards for which a professional engineer must be consulted.

4.1.2. *Surface Outlets*: When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.

4.2. Contents of a SWPPP. A SWPPP must contain the following:

4.2.1. *Contacts*. The contacts for the site with contact information (name, address, telephone, email) including owner, general contractor, and any other party that significantly affects the implementation of the SWPPP or has responsibilities over the SWPPP.

4.2.2. *Sequence and Estimated Dates of Construction Activities*. Listed in the sequence with estimated dates including the following:

4.2.2.a. Start and end of excavation activities, initial excavation, backfill excavation and final grading,

4.2.2.b. Any temporary or permanent cessation of earth-disturbing activities,

4.2.2.c. Start and end of landscaping if this is done as part of the construction activity before the home is sold.

4.2.3. *Site Map or Chart*. A site map may be hand drawn (as close to scale as possible) or may be a copy of an architect drawing including the following information:

4.2.3.a. Boundaries of the property,

4.2.3.b. Boundaries of soil surface disturbances, including any outside the boundaries of the property,

4.2.3.c. Slopes, including areas of steep slopes,

4.2.3.d. Locations of stockpiles of soils, storage of construction materials, portable toilets, trash containers, concrete washout pits or containers, egress points, and track out pads,

4.2.3.e. Waterbodies, wetlands, and natural buffer areas,

4.2.3.f. Locations and types of BMPs or storm water control measures for the control and/or treatment of storm water flowing onto, through, and/or offsite,

4.2.3.g. Locations of storm water inlets, storm water discharge points going off site,

- 4.2.3.h. Areas that will be temporarily or permanently stabilized during the construction period.
- 4.2.4. *Thirty-Foot Natural Buffer.* The SWPPP must show the dimensions and placement of the 30-foot natural buffer, the substitute control measures, or a detailed explanation of why a natural buffer or substitute control measure could not be applied.
- 4.2.5. *Pollutants.* A list of construction site pollutants including the pollutant-generating activity, and an inventory of pollutants for each pollutant generating activity (e.g., paints, solvents, form oil, fuels, and other chemicals; applications, materials, and liquids that if released could pollute storm water).
- 4.2.6. *Waste Management.* Waste management procedures including soil removal, clearing debris removal, demolition removal, trash disposal, construction-waste disposal, and sanitary-waste disposal.
- 4.2.7. *Training.* The permittee will ensure that each subcontractor or utility provider is aware of their responsibilities for keeping soil on the site and preventing pollution. The permittee must keep in mind that they are responsible for and may be issued fines for poor performances by their subcontractors and utility providers. Consideration will be given if the permittee can document when and what instructions were given to the subordinate party.
- 4.2.8. *NOI and Permit.* The SWPPP must contain a copy of this permit and a copy of the NOI for the project.
- 4.2.9. *SWPPP Signature and Certification.* The SWPPP must be signed and certified by both the Owner and the General Contractor in accordance with 5.16.1.a.
- 4.2.10. *MS4 Approval of Project.* For areas where projects are within a regulated MS4's jurisdiction (see definitions in Part 6; the list of regulated MS4's is found on <http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm>), the SWPPP must contain the signature and date of the MS4 reviewer who has approved the proposed project for construction (see 1.7.).
- 4.2.11. *Availability of the SWPPP.* The SWPPP must be available at the construction site covered under this permit during onsite construction activity, unless the SWPPP is available online. If the SWPPP is available online there must be a sign (see 1.10) that describes where the SWPPP can be accessed online. The SWPPP is a plan for the site, and workers must be able to refer to the SWPPP and update it as needed to manage the site (including SWPPPs found on the internet). The SWPPP is not required to be on the site when construction workers leave for the day or when there is no activity occurring on the site, but at all times there must be posted contact information where the SWPPP can be obtained (see Part 1.10). The SWPPP must be made available within 24 hours to DWQ representatives or other oversight inspectors, e.g., U.S. Environmental Protection Agency [EPA] or a local MS4, on request, or immediately during an inspection on the site when there are workers and activity at the site.

- 4.2.12. *Required Modifications of the SWPPP.* The SWPPP must be modified as follows:
- 4.2.12.a. During inspections when it is determined from observations of site conditions that storm water control measures are:
    - 4.2.12.a.i. Not adequate or not shown in the SWPPP, or
    - 4.2.12.a.ii. Changes in the SWPPP are necessary for compliance with this permit.
  - 4.2.12.b. When an oversight authority determines that the SWPPP is not adequate based on missing a required SWPPP or permit item, not addressing pollutants properly, not being up to date and reflecting current site conditions, or not being clear, thorough, and understandable.
- 4.2.13. *SWPPP Modifications Deadline.* Modifications to the SWPPP from inspections or oversight authority direction must occur before or during the next weekly inspection.

5. STANDARD PERMIT CONDITIONS.

5.1. Duty to Comply.

5.1.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Utah Water Quality Act (the Act) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

5.1.2. *Penalties for Violations of Permit Conditions*

5.1.2.a. *Violations.* The Act provides that any person who violates the Act, Utah wastewater or storm water rules, or conditions of a permit issued under the Act, is subject to a fine of \$10,000 per day.

5.1.2.b. *Willful or Gross Negligence.* The Act provides that any person who discharges a pollutant to waters of the State as a result of criminal negligence or who intentionally discharges is criminally liable and is subject to imprisonment and a fine of up to \$50,000 per day (Utah Code Annotated 19-5-115).

5.1.2.c. *False Statements.* The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act, the rules, or this permit, or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for 6 months, or by both (Utah Code Annotated 19-5-115(4)).

5.2. Duty to Reapply. If a permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit except as provided in 1.6 and 1.7 of this permit.

5.3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5.4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

5.5. Duty to Provide Information. The permittee shall furnish to the Director or an authorized representative, within a reasonable time, any information that is requested to determine compliance with this permit. The permittee must also furnish to the Director or an authorized representative copies of records to be kept by this permit.

5.6. Other Information. When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Director, he or she shall promptly submit such facts or information.



- 5.7. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Act.
- 5.8. Property Rights. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- 5.9. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- 5.10. Record Retention. The permittee shall retain copies of SWPPPs and all reports required by this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the permit for the site is terminated (see 3.7). This period may be extended by request of the Director at any time.
- 5.11. Addresses. All written correspondence under this permit shall be directed to the DWQ at the following address:
- Department of Environmental Quality  
Division of Water Quality  
195 North 1950 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870
- 5.12. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Utah Code Annotated 19-5-117.
- 5.12.1. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.
- 5.13. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWPPPs. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the condition of the permit.
- 5.14. Inspection and Entry. The permittee shall allow, upon presentation of credentials, the Director or an authorized representative to:
- 5.14.1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

- 5.14.2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit.
- 5.14.3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
- 5.14.4. Sample or monitor at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by law, any substances or parameters at any location.

5.15. Reopener Clause.

- 5.15.1. *Reopener Due to Water Quality Impacts.* If there is evidence indicating that the storm water discharges authorized by this permit cause, have the reasonable potential to cause, or contribute to a violation of a water-quality standard, the discharger may be required to obtain an individual permit or an alternative general permit in accordance with 1.7.4 of this permit or the permit may be modified to include different limitations and/or requirements.
- 5.15.2. *Reopener Guidelines.* Permit modification or revocation will be conducted according to Utah Administrative Code R317-8-5.6 and UAC R317-8-6.2.
- 5.15.3. *Permit Actions.* This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification revocation and reissuance, termination, a modification of planned changes or anticipated noncompliance does not stay any permit condition.

5.16. Signatory Requirements.

- 5.16.1. All NOIs, SWPPPs, reports, certifications or information submitted to the Director, or that this permit requires be maintained by the permittee, shall be signed as follows:
  - 5.16.1.a. All NOIs and SWPPPs shall be signed by both the owner or lessee of the project/property and the general contractor.
  - 5.16.1.b. All reports required by the permit and other information requested by the Director or by an authorized representative of the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
    - 5.16.1.b.i. The authorization is made in writing by a person described above and submitted to the Director; and
    - 5.16.1.b.ii. The authorization specifies either an individual or a position having such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may therefore be either a named individual or any individual occupying a named position.
  - 5.16.1.c. *Certification.* Any person signing documents under 5.16 shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

- 5.16.2. If a document is to be signed electronically, the Division's rules regarding electronic transactions govern, if applicable.

## 6. DEFINITIONS

*Arid Areas:* Areas with an average annual rainfall of 10 inches or less.

*Common Plan of Development (or sale):* A plan to subdivide a parcel of land into separate parts for separate sale. This can be for a residential, commercial, or industrial development. The plan originates as a single parcel that is separated into parts. This usually goes through an approval process by a local governmental unit, but in some cases, it may not require that process. The original plan is considered the "common plan of development or sale" whether phased or completed in steps.

*Additional information related to Common Plan of Development for Permit Purposes:*

For UPDES storm water permit purposes, a common plan must have been initiated after October, 1992. A common plan of development or sale remains so until each lot or section of the development has fulfilled its planned purposes (e.g. in a residential development as homes are completed, stabilized, and sold or occupied). As lots or separated sections of the development are completed, the lot or section is stabilized, and the plan purposes are fulfilled for that area, lot, or section, it is no longer part of the common plan of development or sale (e.g. if a home is sold in a development and the owner decides to add a garage somewhere on the lot, that garage project is not part of the common plan of development or sale).

In this process a common plan of development or sale may become reduced in size and/or separated by completed areas which are no longer part of the common plan of development or sale, but all unfinished lots remain part of the same common plan development or sale until they are completed, stabilized, and fulfilled according to the purposes of the plan.

*Construction Activity:* Earth-disturbing activities, such as the clearing, grading, and excavation of land.

*Construction Waste:* Discarded material such as packaging materials, scrap construction materials, masonry products, timber, steel, pipe, and electrical cuttings, plastics, and Styrofoam.

*Corrective Action:* For the purposes of the permit, any action taken to 1) repair, modify, or replace any storm water control used at the site; 2) clean up and dispose of spills, releases, or other deposits found on the site; and 3) remedy a permit violation.

*Dewatering:* The act of draining rainwater and/or groundwater from building foundations, vaults, and trenches (Note: if dewatering is occurring on a construction site and it causes a discharge to waters of the State, it must be permitted separately under the General Permit for Construction Dewatering and Hydrostatic Testing , UPDES Permit UTG070000).

*Director:* The director of the Division of Water Quality.

*Discharge Point:* For the purposes of this permit, the location where collected and concentrated storm water flows are discharged from the construction site.

*Final Stabilization:* All disturbed areas must be covered by permanent structures such as pavement, concrete slab, building, etc., or for areas not covered by permanent structures but that are receiving 20 inches or more of average annual precipitation, vegetation has been established with a uniform (e.g.,

evenly distributed, without large bare areas) perennial vegetative cover equivalent to 70 percent of the natural background vegetative cover. In the case of areas that are not covered by permanent structures, but that are receiving less than 20 inches of average annual precipitation (arid areas, 0-10 inches; semi-arid areas, 10-20 inches), final stabilization is equivalent to the requirements of 2.6.3 of this permit, including the provisions for permanent stabilization.

*Impervious Surface:* For the purpose of this permit, any land surface with a low or no capacity for water infiltration including, but not limited to, pavement, sidewalks, parking areas, driveways, or rooftops.

*Indian Country:* Defined at 40 CFR §122.2 as follows:

1. All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and, including rights-of-way running through the reservation;
2. All dependent Indian communities within the borders of the United States whether within the originally or subsequently acquired territory thereof; and
3. All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-ways running through the same.

*Infeasible:* Infeasible means not technologically possible or not economically practicable and achievable in light of best industry practices. DWQ notes that it is not intentional for permit storm water control efforts required in the permit to conflict with State water rights law. In the case of conflict, State water rights law supersedes.

*Install or Installation:* When used in connection with storm water controls, to connect or set in position storm water controls to make them operational.

*Municipal Separate Storm Sewer System or MS4:* A storm-sewer system owned and operated by a state, city, town, county, district, association, or other public body created by or pursuant to State law having jurisdiction over disposal of storm water that discharges to waters of the State (e.g., Sandy City owns and operates the MS4 within the jurisdiction of Sandy City, or essentially Sandy City is the MS4).

*Natural Buffer:* For the purposes of this permit, an area of undisturbed natural cover surrounding surface waters within which construction activities are restricted. Natural cover includes the vegetation, exposed rock, or barren ground that exists before earth-disturbing activities begin.

*Oversight Authority:* Oversight authorities for storm water permits are agents from the EPA, DWQ or the Municipality of jurisdiction, when they are addressing compliance of storm water permits.

*Owner:* For the purpose of this permit an owner has ownership of a property on which construction activity is taking place, but it also includes ownership of a project for which construction activity is occurring on property that is leased. An owner is the party that has ultimate control over construction plans and specifications, including the ability at the highest level to make modifications to those plans and specifications. "Owner" in this context is the party that has ultimate control over the destiny of a project.

*Permittee:* The owner and/or the general contractor (those that signed on the NOI), for the project.

*Pollutant-Generating Activities:* At construction sites, for the purposes of this permit, those activities that lead to or could lead to the generation of pollutants, either as a result of earth-disturbance or a related support activity. Some of the types of pollutants that are typically found at construction sites are as follows:

- Sediment
- Nutrients
- Heavy metals
- Pesticides and herbicides
- Oil and grease
- Bacteria and viruses
- Trash, debris, and solids
- Treatment polymers
- Any other toxic chemicals

*Pollution Prevention Measures:* Storm water controls designed to reduce or eliminate the addition of pollutants to construction site discharges through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

*Project Site:* A project site is not necessarily contained within the property boundaries designated for the final construction objective, or property owned by the owner of the project. The project site includes all areas affected by the construction process where disturbances, storage, or other construction activity occurs. If an area outside of property boundaries is used for the construction process, DWQ assumes the permittee has the right to access and use that area and the permittee must also meet permit requirements in that area.

*Receiving Water:* A "Water(s) of the State" is as defined in UAC R317-1-1, into which the regulated storm water discharges (see waters of the State listed below).

*Rumble Strip:* A rigid ramp/track (often made of steel) that vehicles drive over that causes tires to flex and shake for the removal of dirt.

*Semi-Arid Areas:* Areas with an average annual rainfall of between 10 and 20 inches.

*Stabilization:* The use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas of disturbed soil exposed from the construction process.

*Storm water:* Means storm water runoff, snowmelt runoff, and surface runoff and drainage.

*Storm Water Control Measures:* Refers to any storm water control, BMP, or other method used to prevent or reduce the discharge of pollutants to waters of the state.

*Storm Water Inlet:* An entrance or opening to a storm water conveyance system, generally placed below grade so as to receive storm water drainage from the surrounding area.

*Storm Event:* A precipitation event that results in a measurable amount of precipitation.

*Track Out Pad:* A track out pad is a pad normally made up of 4 to 6 inches of up to 6 inch cobble rocks or gravel of various size (the size is sometimes specified by a local MS4). Sometimes it is underlain with a fabric to keep dirt and mud separated from rock or gravel. It is wide enough to underlay the tires of any/all traffic leaving a construction site as vehicles exit the site. Its function is to flex and shake the tires to dislodge mud and dirt from the tires of vehicles leaving the construction site. Track out pads must be stirred or worked periodically so that mud or dirt collected is moved to the bottom and the rock/gravel on the pad is clean and effective dislodging more mud/dirt.

*Waters of the State:* All streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, that are contained within, flow through, or border upon this state or any portion thereof, except that bodies of water confined to and retained within the limits of private property, and that do not develop into or constitute a nuisance, or a public health hazard, or a menace to fish and wildlife, shall not be considered to be "Waters of the State" under this definition (see Utah Code Annotated, 19-5-102(23)(a) &(b), and UAC R317-1-1).

**APPENDIX D: Acknowledgement Letter from City Name Here.**





# INSTRUCTIONS

## Notice Of Intent (NOI) For Permit Coverage Under the UPDES General Permit For Storm Water Discharges From Construction Activities

**Who Must File A Notice Of Intent (NOI) Form** State law at UAC R317-8-3.9 prohibits point source discharges of storm water from construction activities to a water body(ies) of the State without a Utah Pollutant Discharge Elimination System (UPDES) permit. The owner and the general contractor of a construction activity that has such a storm water discharge must submit a NOI to obtain coverage under the UPDES Storm Water General Permit. If you have questions about whether you need a permit under the UPDES Storm Water program, or if you need information as to whether a particular program is administered by EPA or a state agency, contact the storm water coordinator at (801) 536-4300.

**Where To File NOI Form** The preferred method of submitting an NOI to apply for the construction general storm water permit (CGP) is electronically on-line at <http://www.waterquality.utah.gov/UPDES/stormwatercon.htm>. The fee can be submitted on line also. If on-line is not an option for you send a paper form of the NOI to the following address:

Department of Environmental Quality  
Division of Water Quality  
P.O. Box 144870  
Salt Lake City, UT 84114-4870

**Beginning of Coverage** CGP coverages are issued immediately after submitting an NOI with the permit fee. The permittee should be aware that though you may not have a permit in hand, if you have submitted a completed NOI with the permit fee you are covered by the conditions in the permit and will be expected to comply with permit conditions. You can print a copy of the CGP from the DWQ web site.

**Permit Fees.** The permit fee is \$150.00 per year. The fee is paid by Visa/Master Card on-line when an NOI is filed (by check if submitted with a paper NOI). If the project continues for more than one year the fee must be submitted again in a renewal process on-line. CGP coverage will not be issued until the fee is paid.

**Length of Coverage:** CGP coverage starts the day that the NOI and fee is received at DWQ and expires a year from issuance. All CGP coverages must be renewed within 60-days after the yearly expiration date, or be terminated with a notice of termination (NOT) before the expiration date. To terminate the permit the site must meet the permit conditions for final stabilization (see permit definitions), or must continue under a different permit holder. In most cases the DWQ or municipality of jurisdiction will perform a final inspection when a CGP coverage submits an NOT. If the site passes the final inspection the permit is terminated.

The Storm Water General Permit for Construction Activities UTRC00000 will expire on June 30, 2019 – UTRH00000 expires on September 30, 2020. The Clean Water Act requires that all UPDES permits be renewed every 5 years. If a project extends beyond the expiration date of the Permit it must renew the permit and continue coverage under the renewed permit that will subsequently be developed to continue the same or similar permit coverage for construction activity.

**SECTION I - FACILITY OPERATOR INFORMATION** Supply the legal name(s) of the person(s), firm(s), public organization(s), or any other entity(ies) that qualifies as the owner of the project (see permit definitions). Do the same for the general contractor that conducts the construction operation at the facility or site to be permitted. The owner and the general contractor of the project may be the same.

Enter the complete address and telephone number of the owner and general contractor and a contact person and number for each. Enter the appropriate letter to indicate the legal status of the operator of the facility.

**F = Federal M = Public (other than Fed or State) S = State P = Private**

**SECTION II - FACILITY/SITE LOCATION INFORMATION** Enter the facility name or legal name and project number (if any) of the site and complete street address, including city, state and ZIP code. The latitude and longitude of the facility must be included to the approximate centroid of the site, and the method of how the Lat/Long was obtained (USGS maps, GPS, Internet Map sites [such as Google Earth], or other).

Indicate whether the facility is located in Indian Country. If the facility is located in Indian Country, do not complete this NOI, instead submit an application for coverage under a storm water permit to EPA Region VIII except for facilities on the Navajo Reservation or on the Goshute Reservation which should submit an application to EPA Region IX.

**SECTION III - SITE ACTIVITY INFORMATION** If the storm water discharges to a municipal separate storm sewer system (MS4), enter the name of

the operator of the MS4 (e.g., the name of the City or County of jurisdiction) and the receiving water of the discharge from the MS4 if it is known (if it is not known look it up at <http://wq.deq.utah.gov>). (An MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, county, district, association or other public body which is designed or used for collecting or conveying storm water).

**For Impaired Waters:** Go to <http://wq.deq.utah.gov> and identify the water body that will receive the storm water discharge from the permitted site, on the map provided at the web site (zoom in for easier resolution). On the left hand side of the page you will see “2010 Assessment” or “2013 Assessment” depending on the year you refer to the web site (the assessment is done every 3 years). The 20XX Assessment will indicate if the water is impaired. If there is nothing after 20XX Assessment or the narrative after does not include the word “impaired”, your receiving water is not impaired.

**For High Quality Waters:** On the web page referred to in the paragraph above on the left hand side of the page you will see “Anti-Degradation Category”. Under Anti-Degradation Category you will see the category of the water body. Only categories 1 and 2 are high quality water bodies. Some waters may be both categories 1 and 3. If your water body is both category 1 and 3 it means the headwaters of your water body is within Forest Service boundaries, and because it is within Forest Service boundaries it is category 1. If your project is within Forest Service boundaries then your water body is category 1 and it is “high quality”. If your project is not within Forest Service boundaries then your water body is category 3 and is not “high quality”. Again, category 1 waters are high quality waters, category 3 waters are not high quality waters.

**SECTION IV – LISTING LOTS FOR SUBDIVISIONS** For the sake of tracking lots that are sold (if a developer chooses to sell lots to another party before the building construction for the lot is completed), and permitted under a different owner (which requires a different permit), developers must list lot numbers.

**SECTION V - TYPE OF CONSTRUCTION** Check each type of construction that applies to this application.

**SECTION VI - BEST MANAGEMENT PRACTICES** Check each type of best management practice that will be used to control storm water runoff at the job site.

**SECTION VII – GOOD HOUSEKEEPING PRACTICES** Check each type of good housekeeping practice that you will use on the site any time during construction activities.

**SECTION VIII – ADDITIONAL** Provide an estimate of the total number of acres of the site on which soil will be disturbed (to the nearest hundredth of an acre). An email address is required of the best contact associated with the project for the communication needs.

**SECTION IX – CERTIFICATION** State statutes provide for severe penalties for submitting false information on this application form. State regulations require this application to be signed as follows:

*For a corporation:* by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

*For a partnership or sole proprietorship:* by a general partner or the proprietor; or

*For a municipality, state, Federal, or other public facility:* by either a principal executive officer or ranking elected official.

**POLLUTION PREVENTION PLAN** A storm water pollution prevention plan (SWP3) is required to be in hand before the NOI can be submitted. It is important to know SWPPP requirements (contained in the permit) even during the design portion of the project. A copy of the permit can be obtained from the Division of Water Quality’s storm water construction web site. Guidance material for developing a SWPPP can be obtained from the Division of Water Quality’s storm water construction web site.

V. TYPE OF CONSTRUCTION (Check all that apply)

- 1.  Residential    2.  Commercial    3.  Industrial    4.  Road    5.  Bridge    6.  Utility
- 7.  Contouring, Landscaping    8.  Pipeline    9.  Other (Please list)

VI. BEST MANAGEMENT PRACTICES

Identify proposed Best Management Practices (BMPs) to reduce pollutants in storm water discharges (Check all that apply):

- 1.  Silt Fence/Straw Wattle/Perimeter Controls    2.  Sediment Pond    3.  Seeding/Preservation of Vegetation
- 4.  Mulching/Geotextiles    5.  Check Dams    6.  Structural Controls (Berms, Ditches, etc.)
- 7.  Other (Please list)

VII. GOOD HOUSEKEEPING PRACTICES

Identify proposed Good Housekeeping Practices to reduce pollutants in storm water discharges (Check all that apply even if they apply only during a part of the construction time):

- 1.  Sanitary/Portable Toilet    2.  Washout Areas    3.  Construction Chemicals/Building Supplies Storage Area
- 4.  Garbage/Waste Disposal    5.  Non-Storm Water    6.  Track Out Controls    7.  Spill Control Measures

VIII. ADDITIONAL

Estimated Area to be Disturbed (in Acres): 1.00

Total Area of Plot (in Acres): 1.00

A storm water pollution prevention plan has been prepared for this site and is to the best of my knowledge in Compliance with State and/or Local Sediment and Erosion Plans and Requirements. Y  N   
(A pollution prevention plan is required to be on hand before submittal of the NOI.)

Project Start Date: 11/01/2016

Project End Date: 11/01/2017

Enter the best e-mail address to contact the permittee: landtoskyconstruction@gmail.com

IX. CERTIFICATION: I certify under penalty of law that I have read and understand the Part 1 eligibility requirements for coverage under the general permit for storm water discharges from construction activities. I further certify that to the best of my knowledge, all discharges and BMPs that have been scheduled and detailed in a storm water pollution prevention plan will satisfy requirements of this permit. I understand that continued coverage under this storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.

I also certify under penalty of law that this document and all attachments were prepared under the direction or supervision of those who have placed their signature(s) below, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner and Operator must sign below:

Print Name:

Land to Sky Construction Inc.

Date: 10-24-16

Title: President

Signature: *Keith L. Bower*

Print Name:

Land to Sky Construction Inc.

Date: 10-24-16

Title: President

Signature: *Keith L. Bower*

Amount of Permit Fee Enclosed: \$ 150.00

Stormwater Pollution Prevention Plan Template (SWPPP)  
Common Plan Permit

**APPENDIX E: Inspection Reports**

INSPECTION REPORT				SITE NAME: John Doe Project	
INSPECTION PERIOD: 2012.03.01-2012.03.07				LAST RAIN EVENT: 2012.03.01	
INSPECTOR: jd				CURRENT WEATHER: clear	
BMP	DATE	OK/NOT OK?	BMP CONDITION	CORRECTIVE ACTION REQUIREMENTS	
Are all pollution sources controlled? Do any other problems exist?	3/7/2012	OK	no	All pollution sources are controlled. No new BMPs are necessary.	
4.7.2 LOT Curbdown	3/7/2012	OK	In place		
4.7.1 Silt Fencing	3/7/2012	not OK	Silt fence at south boundary was buried by excavator.	Informed xyz excavating by phone this must be repaired including the sediment washed onto the adjacent lot, no later than two days or before the next storm event which ever comes first. Sediment had washed onto the south property	
4.9.1 Drop Inlet Bags	3/7/2012	OK	Only about 4" of sediment		
4.9.2 Gutter Dam	3/7/2012	OK	Gutter dams are tight to the curb and free of sediment.	Gutter dams were clean March 3rd in anticipation of the forecast storm on March 4th. The dams were also cleaned on the 5th following the storm.	
4.10.1 Dust Controls	3/7/2012	OK	Water and hose are ready. No wind today.	Wind did blow the morning of March 3rd before the storm. City warned my excavator. The excavator began watering as he was loading.	
5.1.2 Gravel Parking	3/7/2012	na	not scheduled per SWPPP	The gravel pad area is covered with excavation from the footing and foundation. Excavation ceased during the March 4th storm. Excavator needed to access at a point not shown on SWPPP. Ground was dry and barrier tape was but back.	
5.1.3 Topsoil and Tape	3/7/2012	OK	fence post and tape in place.	Minor tracking occurred on March 6th. The excavator's laborer cleaned the road with a hand broom and shovel in the middle of the day and at the end.	
5.1.4 Sq Nose Shovel and Broom	3/7/2012	OK	Minor tracking today	Subs have been told to carry out any curb trash.	
5.2.1 Dumpster	3/7/2012	na	not scheduled per SWPPP		
5.2.3 Portable Toilet	3/7/2012	OK	In place.		
5.2.5 Concrete Washout	3/7/2012	OK	In place. About 25% full.		
5.3.1 Material Storage	3/7/2012	OK	No materials being stored		
5.3.3 Construction Staging	3/7/2012	not OK	not scheduled per SWPPP		
5.3.4 Spoil Waste Limits	3/7/2012	not OK	see 2.5	see 2.5	
5.5 Spill Kit	3/7/2012	OK	In place		
5.8.1 Frontage Swale	3/7/2012	OK	not scheduled per SWPPP		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: John Doe Title: Owner  
 Signature: JD Date: 2012-03-07



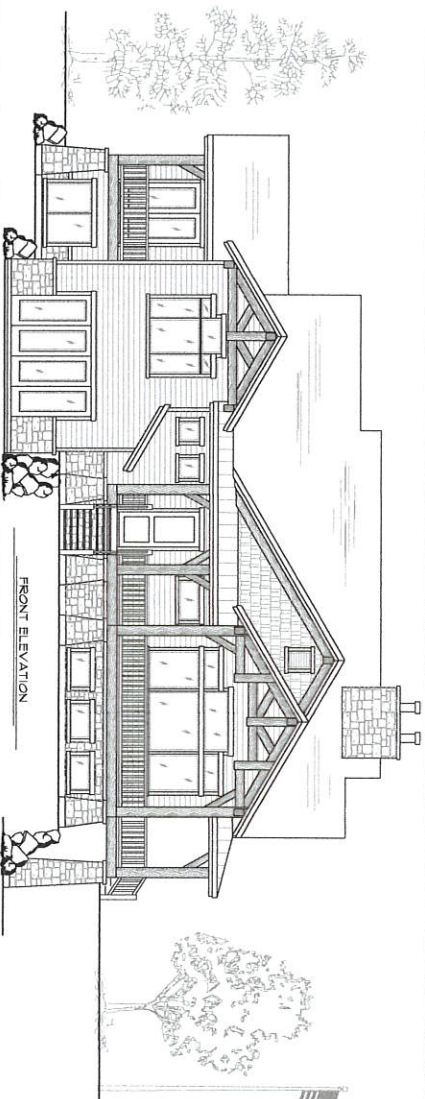


**APPENDIX H: Certifications, Agreements, and Delegation of Authority**





**APPENDIX J: Construction Plans**



FRONT ELEVATION

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CONSTRUCTION**

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S03	STRUCTURAL DETAILS

**PROJECT INFORMATION**

SQUARE FOOTAGE CALCULATIONS	CLIENT	BRYAN & TINA CARDON
MAIN FLOOR	TYPED	RESIDENTIAL PLAN
UPPER FLOOR	DATE	1/20/2016
LOWER FLOOR	REV. DATE	
GARAGE	LOCATION	
COVERED DECK	2282 E LAUREN LANE	
DET. MAIN FLOOR	LOT #1	
DET. LOWER FLOOR	EMERSON HILLS SUBDIVISION PHASE 2	
DET. GARAGE	WEBER COUNTY, UTAH	

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CODE: RC-2012**

PLAN NUMBER: T529113  
SHEET NUMBER: 1 OF 23

**CLIENT:**  
BRYAN & TINA CARDON

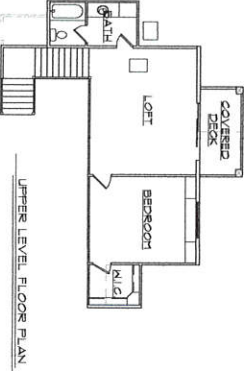
**CONTRACTOR:**  
LAND TO SKY CONSTRUCTION  
KIRT BOVERO

**DESIGNER:**  
1523 E SKYLINE DR.  
SUITE B  
OSGREN, UT 84405  
801-416-1860

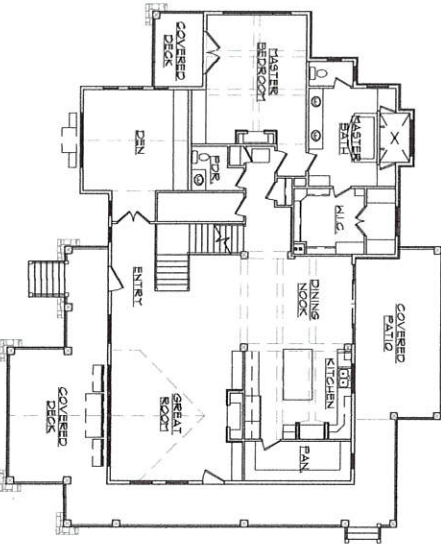


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UPPER LEVEL FLOOR PLAN

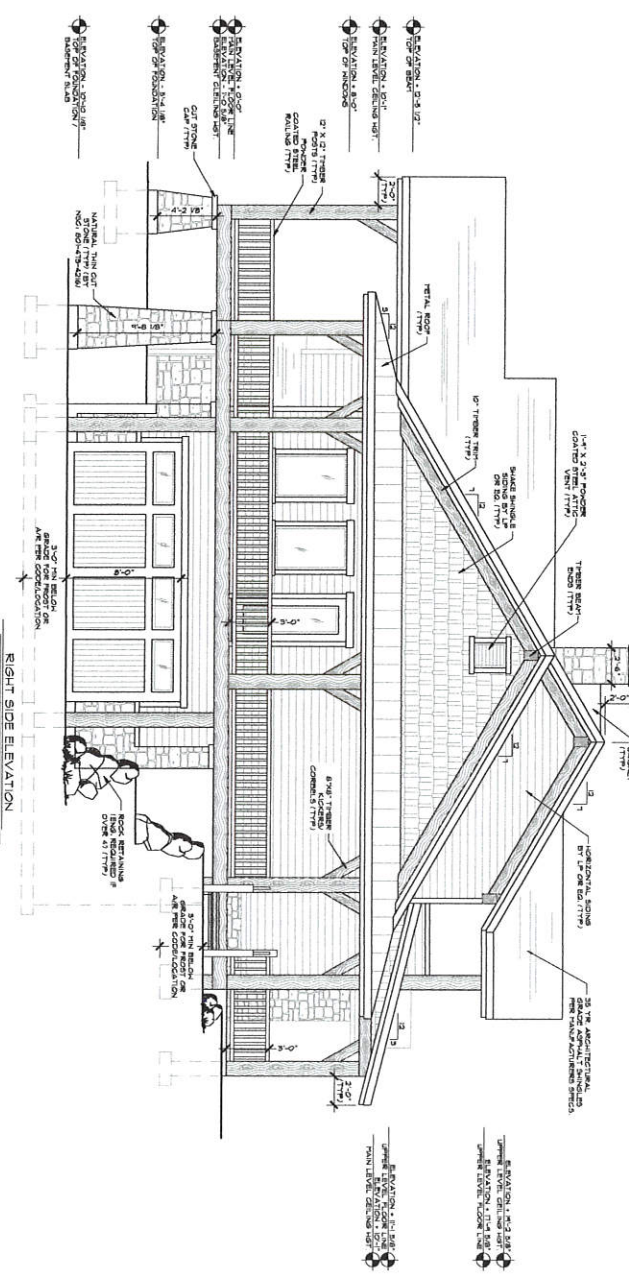
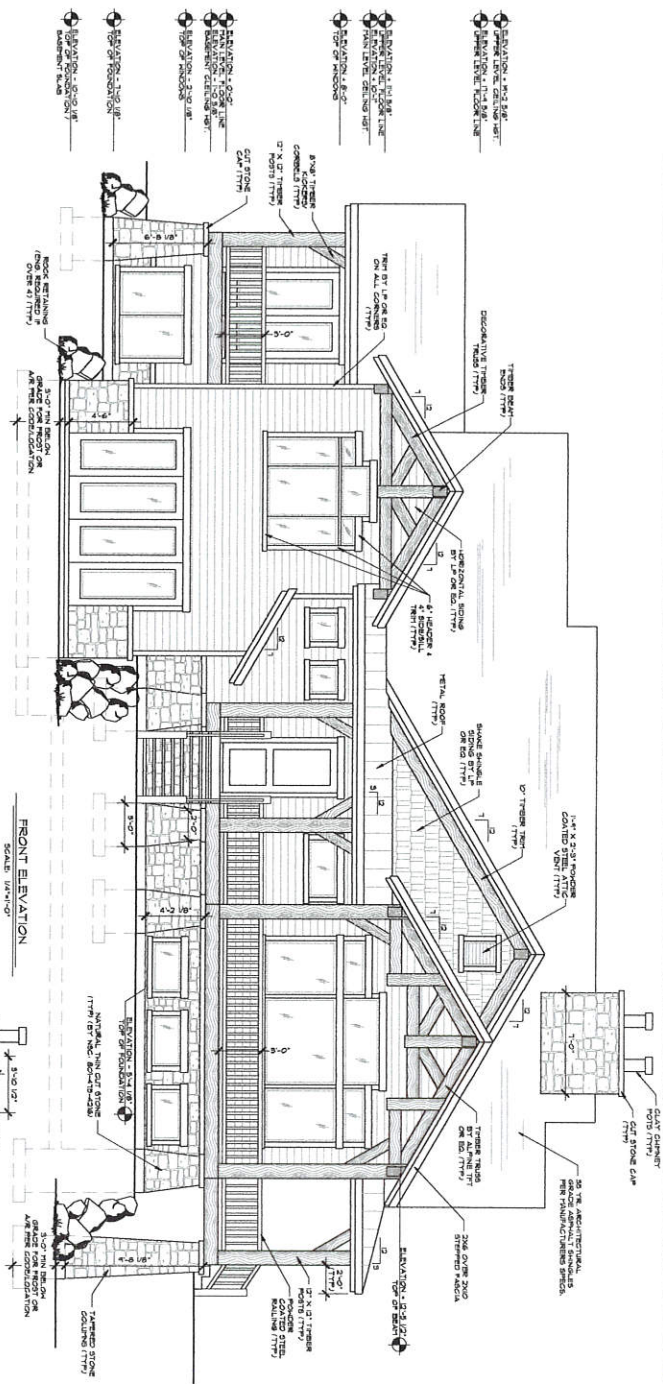


MAIN LEVEL FLOOR PLAN





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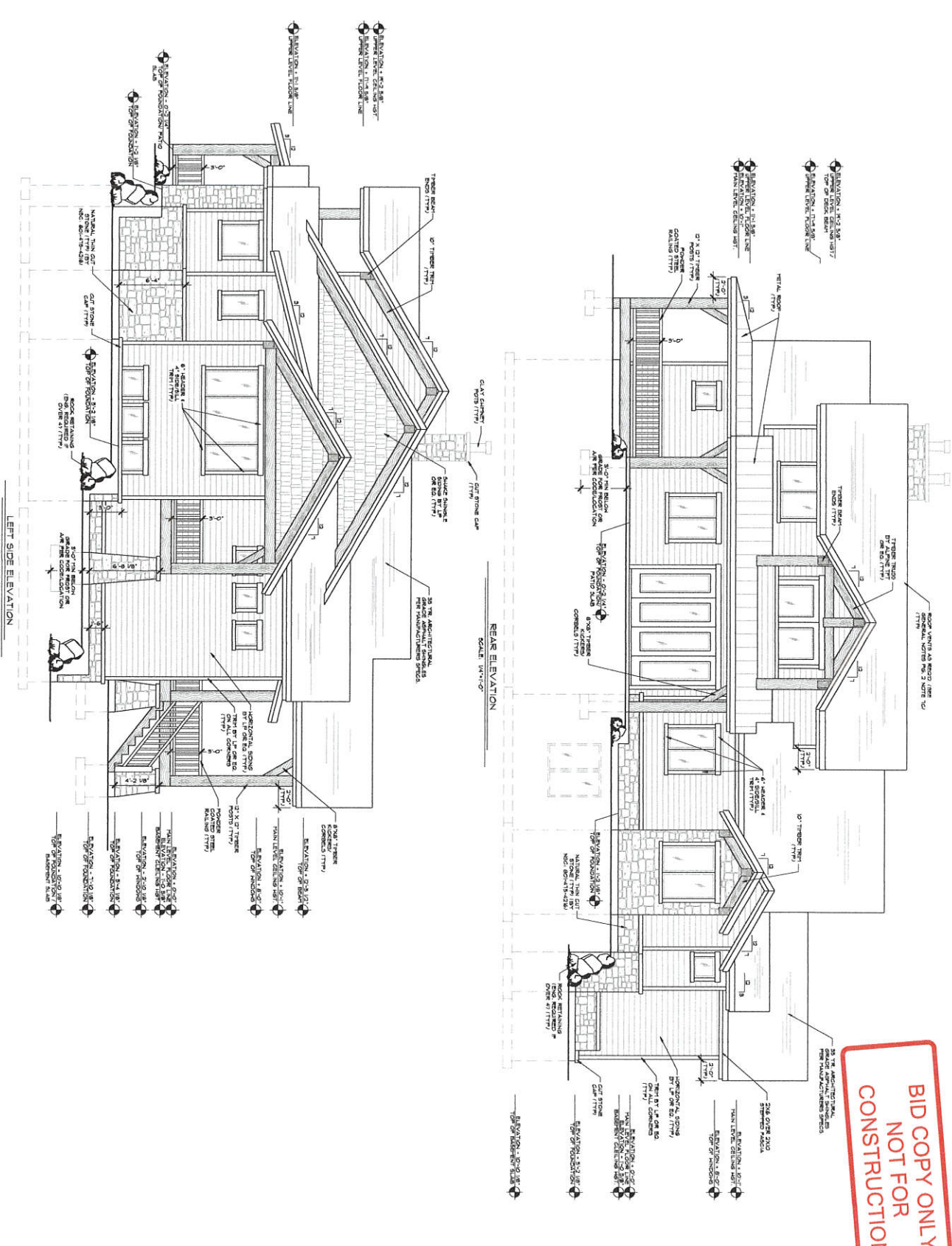


20036 SHEET 14 of 17  
 0 1 2  
 0 1 2  
 1/8" = 1'-0"

SHEET TITLE  
**FRONT / RIGHT SIDE  
 ELEVATIONS**

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VOICE: 801-416-8660  
 FAX: 801-416-8660  
 12002016  
 TS2913  
 4 of 23



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24x36 SHEET: 1'-4" x 1'-0"  
 24x36 SHEET: 18" x 1'-0"  
 SHEET TITLE: REAR / LEFT SIDE ELEVATIONS  
 DRAWN BY: N. COOK  
 CHECK BY: H. STEELE  
 DATE: 1/20/2016  
 PLAN NUMBER: T52913  
 SHEET NUMBER: 5 OF 23

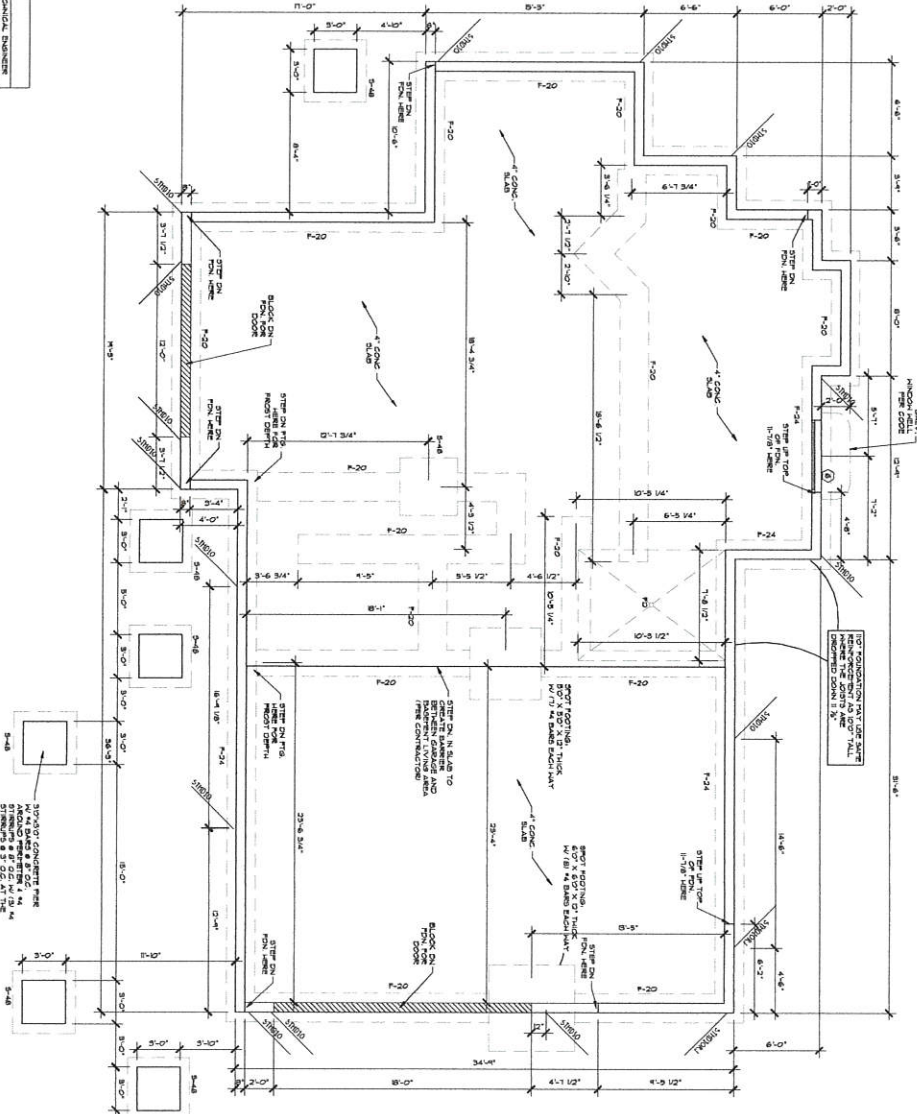
CONSTRUCTION SHALL MEET ALL APPLICABLE CODES AND REGULATIONS BY THE JURISDICTION TO WHICH THIS PROJECT IS BEING SUBMITTED. THIS PLAN IS THE EXCLUSIVE PROPERTY OF HABITATIONS AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF HABITATIONS. ANY UNAUTHORIZED USE OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF HABITATIONS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO HABITATIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE USER. HABITATIONS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE USER. HABITATIONS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN.

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VOICE: 601-476-1560  
 FAX: 601-474-1111

CONSTRUCTION SHALL MEET ALL APPLICABLE CODES AND REGULATIONS BY THE JURISDICTION TO WHICH THIS PROJECT IS BEING SUBMITTED. THIS PLAN IS THE EXCLUSIVE PROPERTY OF HABITATIONS AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF HABITATIONS. ANY UNAUTHORIZED USE OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF HABITATIONS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO HABITATIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE USER. HABITATIONS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE USER. HABITATIONS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS PLAN.

**IMPORTANT NOTE**  
1. THE CONTRACTOR IS REQUIRED TO CONSULT WITH A REGISTERED ENGINEER AND ARCHITECT FOR ALL DESIGN AND CONSTRUCTION REQUIREMENTS AND TO PROVIDE THE NECESSARY FOUNDATION AND STRUCTURAL DETAILS TO THE ARCHITECT FOR HIS REVIEW AND APPROVAL.  
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING ALL NECESSARY ENGINEERING AND ARCHITECTURAL DETAILS TO THE ARCHITECT.  
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING ALL NECESSARY ENGINEERING AND ARCHITECTURAL DETAILS TO THE ARCHITECT.  
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING ALL NECESSARY ENGINEERING AND ARCHITECTURAL DETAILS TO THE ARCHITECT.  
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING ALL NECESSARY ENGINEERING AND ARCHITECTURAL DETAILS TO THE ARCHITECT.

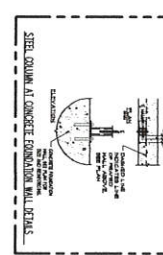


**FOOTING SCHEDULE**

TYPE	WIDTH	LENGTH	THICK	REINFORCEMENT
F-1	8-1/2"	30'-0"	8"	2 #4 SCHED CONG
F-2	10-1/2"	18'-0"	10"	2 #4 SCHED CONG
F-3	12-1/2"	12'-0"	12"	2 #4 SCHED CONG
F-4	14"	8'-0"	14"	2 #4 SCHED CONG
F-5	8-1/2"	10'-0"	8"	2 #4 SCHED CONG

FOOTING SCHEDULE
F-1: 8-1/2" x 8" x 30'-0" @ 8" - 2 #4 SCHED CONG
F-2: 10-1/2" x 10" x 18'-0" @ 10" - 2 #4 SCHED CONG
F-3: 12-1/2" x 12" x 12'-0" @ 12" - 2 #4 SCHED CONG
F-4: 14" x 8" x 8'-0" @ 14" - 2 #4 SCHED CONG
F-5: 8-1/2" x 8" x 10'-0" @ 8" - 2 #4 SCHED CONG

FOOTING, FOUNDATION AND CONCRETE
ALL FOOTINGS SHALL BE PLACED ON A MINIMUM OF 4" SAND FILL OR 6" GRAVEL.
CONCRETE SHALL BE PLACED IN LIFTS NOT EXCEEDING 4 FEET.
CONCRETE SHALL BE CONSOLIDATED BY TAMPING OR VIBRATING.
CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
CONCRETE SHALL BE TESTED FOR STRENGTH AT 7 DAYS AND 28 DAYS.
ALL CONCRETE SHALL BE FINISHED TO THE FINISH ELEVATION.
ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE BY VEHICLES.
ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE BY WEATHER.
ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE BY OTHER TRADES.
ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE BY DEBRIS.
ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE BY OIL.



SEE PAGE 7 FOR WINDOW AND DOOR SCHEDULE

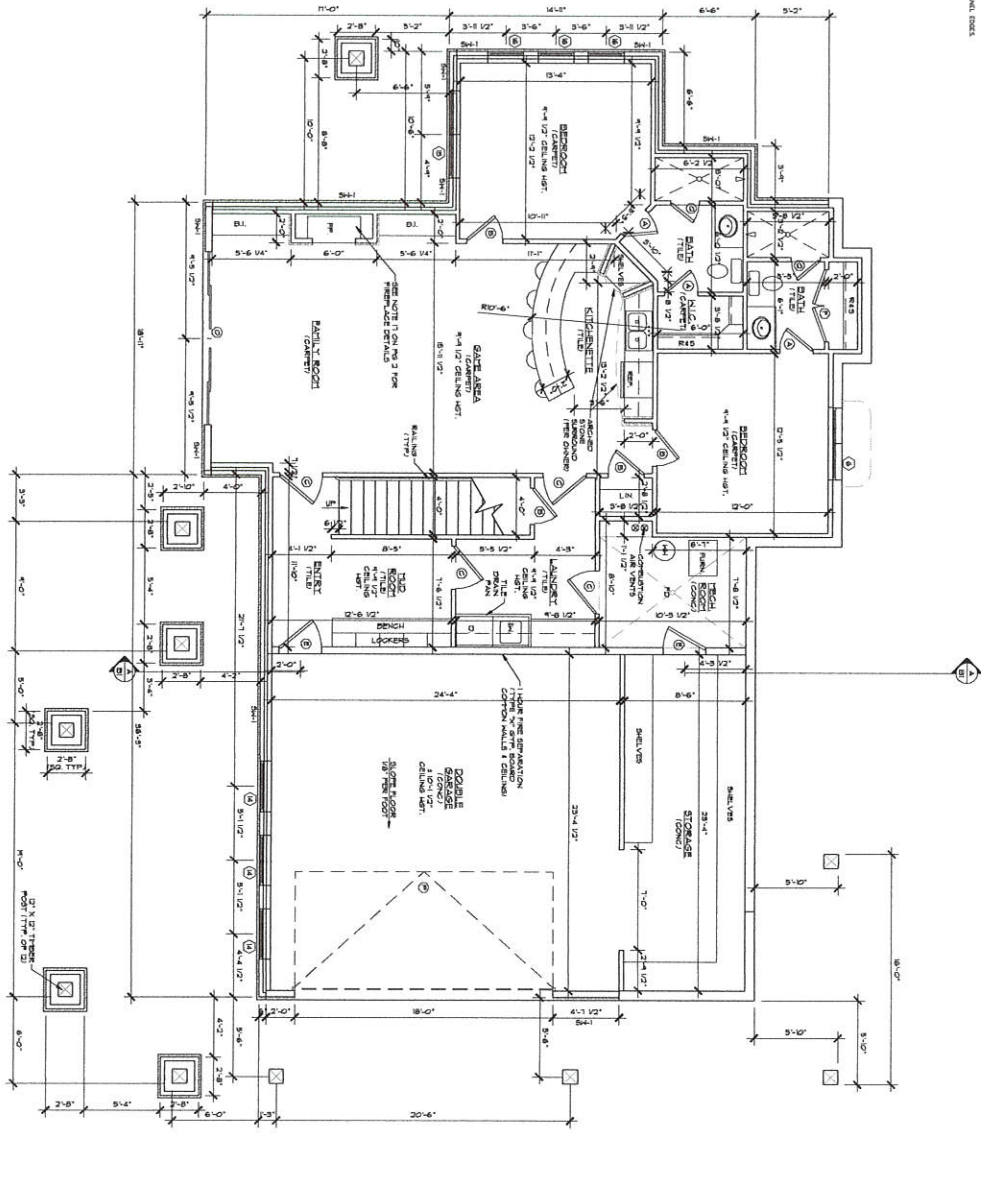
**SEAR WALL NOTES:**

1. ALL SEAR WALLS SHALL BE CONSTRUCTED WITH 1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL SEAR WALLS SHALL BE FINISHED WITH 1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL SEAR WALLS SHALL BE FINISHED WITH 1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER.

**SEAR WALL SCHEDULE:**

THICKNESS	1/2"
TYPE III PORTLAND CEMENT MORTAR	4" DIA. REINFORCING BARS AT 16" ON CENTER
FINISH	1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER

NOTE: ALL SEAR WALLS SHALL BE CONSTRUCTED WITH 1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL SEAR WALLS SHALL BE FINISHED WITH 1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER.



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**DOOR SCHEDULE**

ID	QTY	DESCRIPTIONS
A	5	2'-4" X 8'-0" INTERIOR 2 PANEL DOOR
B	4	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
C	5	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
D	4	4'-0" X 8'-0" INTERIOR 2 PANEL DBL. DOOR
E	2	3'-0" X 8'-0" INTERIOR 20 MIN. FIRE RATED I/J
F	1	3'-0" X 8'-0" INTERIOR 2 PANEL DBL. DOOR
G	1	3'-0" X 8'-0" INTERIOR FULL GLASS DOOR
H	1	11'-0" X 8'-0" EXTERIOR FULL GLASS 4 UNIT SLIDING DOOR
I	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DBL. DOOR
J	1	3'-0" X 8'-0" INTERIOR ENTRY DOOR
K	2	2'-0" X 8'-0" INTERIOR 2 PANEL DOOR
L	2	2'-0" X 8'-0" INTERIOR 2 PANEL DOOR
M	1	8'-0" X 1'-0" EXTERIOR SLIDING GLASS DOOR
N	1	3'-0" X 8'-0" EXTERIOR FULL GLASS 4 UNIT SLIDING DOOR
O	1	3'-0" X 8'-0" EXTERIOR FULL GLASS 4 UNIT SLIDING DOOR
P	1	8'-0" X 8'-0" INSULATED OVERHEAD DOOR
Q	1	3'-0" X 8'-0" GLASS SHOWER DOOR (TEMP)
R	2	1'-5" X 8'-0" GLASS SHOWER DOOR (TEMP)

NOTE: ALL DOOR SCHEDULES SHALL BE CONSTRUCTED WITH 1 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL DOOR SCHEDULES SHALL BE FINISHED WITH 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER.

**MINOR SCHEDULE**

ID	QTY	DESCRIPTIONS
1	6	2'-0" X 1'-0" CABINET
2	1	1'-6" X 8'-0" CABINET 3 UNIT (3-1/6" CTR. FIXED)
3	1	1'-6" X 8'-0" CABINET 3 UNIT (3-1/6" CTR. TRANSOM)
4	2	2'-0" X 8'-0" CABINET 3 UNIT (4-1/6" CTR. FIXED)
5	2	2'-0" X 8'-0" CABINET 3 UNIT (4-1/6" CTR. TRANSOM)
6	2	3'-0" X 8'-0" CABINET 2 UNIT
7	2	4'-0" X 4'-6" CABINET 2 UNIT
8	2	3'-0" X 8'-0" CABINET 2 UNIT
9	2	3'-0" X 8'-0" CABINET 2 UNIT
10	2	3'-0" X 8'-0" CABINET 2 UNIT
11	1	6'-0" X 8'-0" FIXED TRANSOM
12	1	6'-0" X 8'-0" CABINET
13	1	6'-0" X 8'-0" CABINET
14	1	6'-0" X 8'-0" CABINET 2 UNIT
15	1	6'-0" X 8'-0" CABINET 2 UNIT
16	1	5'-0" X 4'-0" CABINET 2 UNIT

NOTE: ALL MINOR SCHEDULES SHALL BE CONSTRUCTED WITH 1 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL MINOR SCHEDULES SHALL BE FINISHED WITH 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER.

**MATERIAL SCHEDULE**

1	3x6" TRICKED HALL
2	3x6" TRICKED HALL
3	1/2" THICK TYPE III PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER

NOTE: ALL MATERIAL SCHEDULES SHALL BE CONSTRUCTED WITH 1 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER. ALL MATERIAL SCHEDULES SHALL BE FINISHED WITH 1/2" THICK PORTLAND CEMENT MORTAR AND 4" DIA. REINFORCING BARS AT 16" ON CENTER.

LOWER FLOOR 318 SQ. FT.  
 GOLF STORAGE 221 SQ. FT.

DATE: 1/20/2016  
 DRAWN BY: H. STEELE  
 CHECKED BY: H. STEELE  
 SHEET NUMBER: T 23

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 RESIDENTIAL DESIGN GROUP

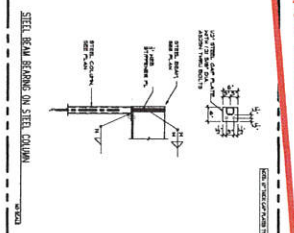
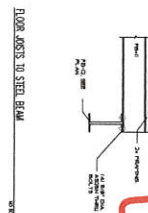
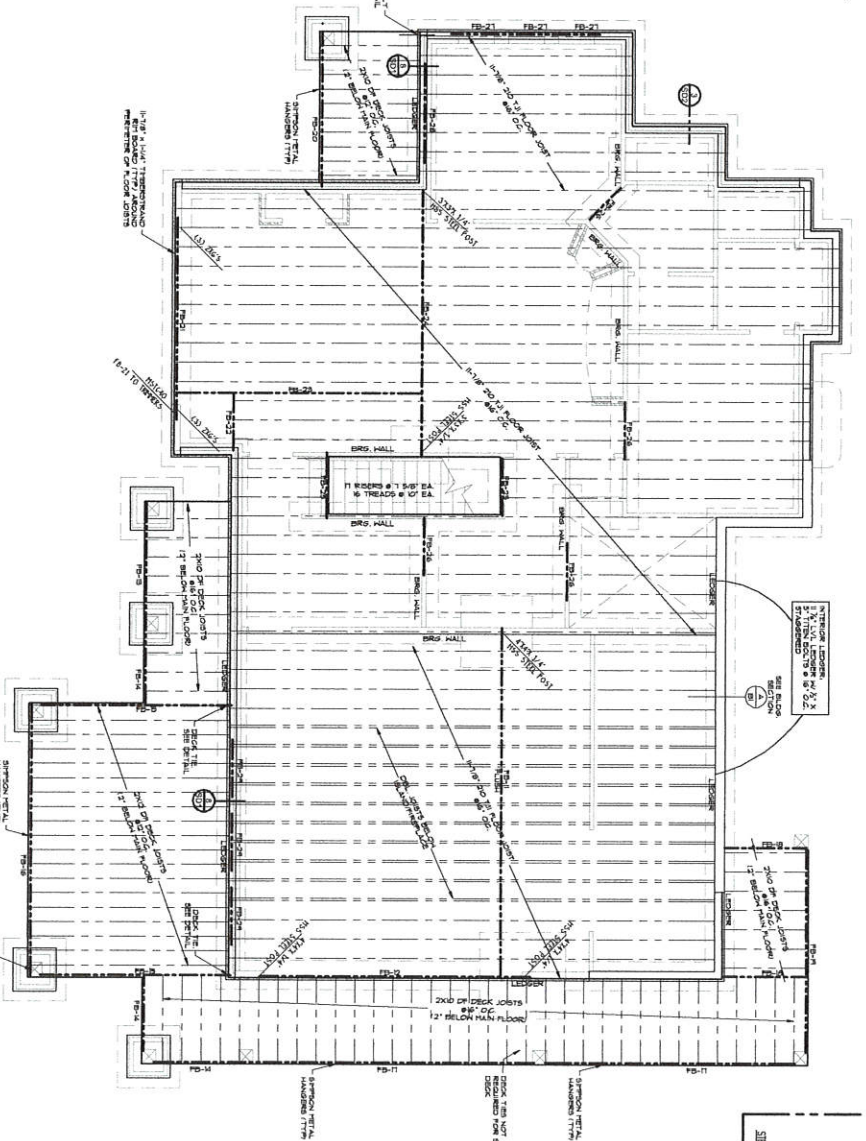
CONSTRUCTION SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND REQUIREMENTS OF THE BID AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.



**IMPORTANT NOTE:**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL JURISDICTION.

**FLOOR BEAM SCHEDULE**

1	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63	64	65	66
67	68	69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108	109	110



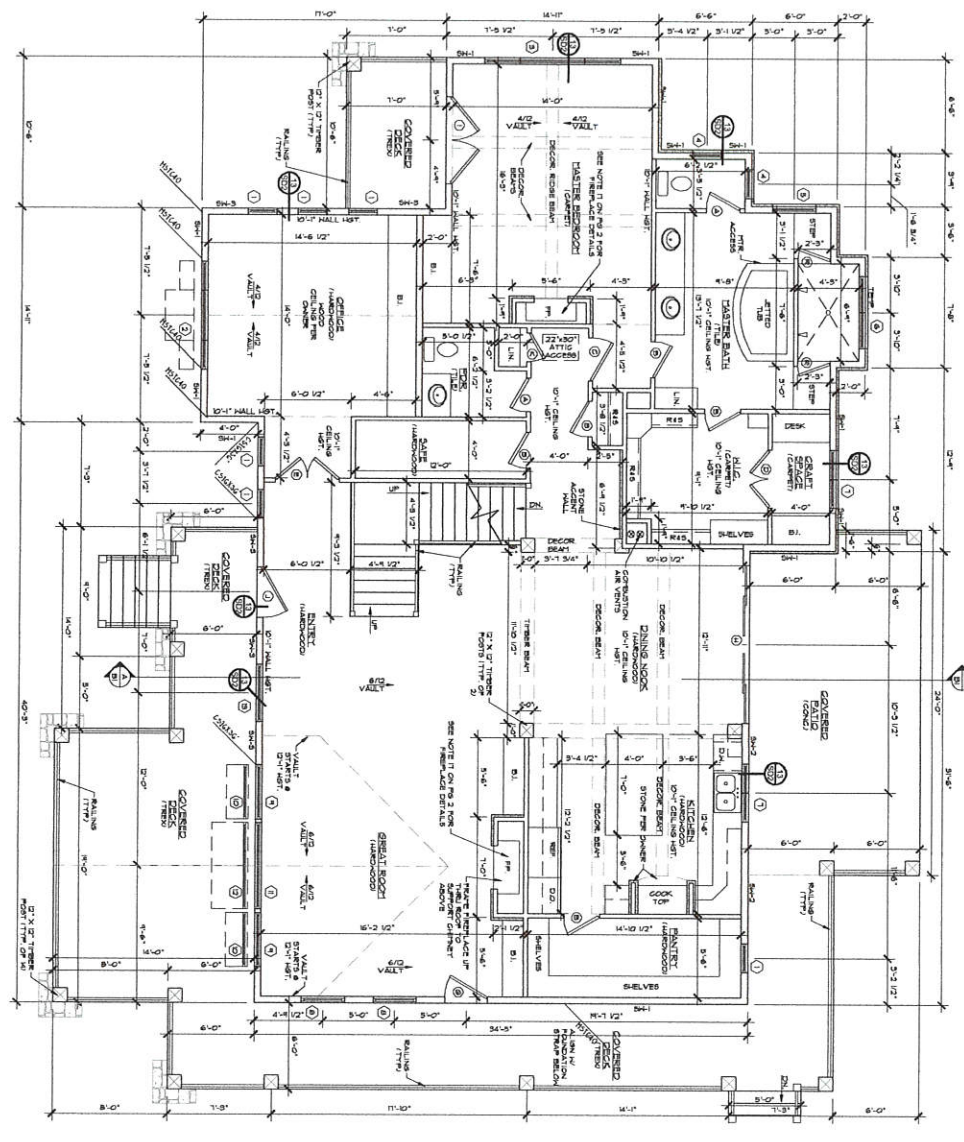
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SHEET TITLE: MAIN LEVEL FLOOR FRAMING PLAN

VOICE: 801-416-1616 FAX: 801-416-1617  
**HABITATIONS**  
 RESIDENTIAL DESIGN GROUP

DATE: 1/20/2016  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 PROJECT: [Name]  
 SHEET NUMBER: 8 OF 23

SHEAR WALL NOTES  
ALL EXTERIOR WALLS AND VERTICAL SHEAR AT STAIRS IN HOOP SHALL BE REINFORCED WITH #3 TYPICAL OR #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER. ALL INTERIOR WALLS SHALL BE REINFORCED WITH #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER. ALL SHEAR WALLS SHALL BE REINFORCED WITH #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER. ALL SHEAR WALLS SHALL BE REINFORCED WITH #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER. ALL SHEAR WALLS SHALL BE REINFORCED WITH #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER. ALL SHEAR WALLS SHALL BE REINFORCED WITH #4 TYPICAL AT MAXIMUM SPACING OF 16" ON CENTER.



ID	QTY	DESCRIPTION
A	5	2'-4" X 8'-0" INTERIOR 2 PANEL DOOR
B	5	2'-6" X 8'-0" INTERIOR 2 PANEL DOOR
C	1	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
D	1	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
E	2	3'-0" X 8'-0" INTERIOR 20 FIN. PANEL DOOR W/ BELIE CLOSER
F	1	4'-6" X 8'-0" INTERIOR FULL GLASS DBL. DOOR
G	1	5'-0" X 8'-0" INTERIOR FULL GLASS DBL. DOOR
H	1	11'-0" X 8'-0" INTERIOR FULL GLASS 4 UNIT SLIDING
I	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DBL. DOOR
J	1	5'-6" X 8'-0" EXTERIOR ENTRY DOOR
K	1	2'-4" X 6'-6" INTERIOR 2 PANEL DOOR
L	3	2'-4" X 6'-6" INTERIOR 2 PANEL DOOR
M	3	2'-4" X 6'-6" INTERIOR 2 PANEL DOOR
N	1	8'-0" X 1'-0" EXTERIOR SLIDING GLASS DOOR
O	1	12'-0" X 8'-0" EXTERIOR FULL GLASS 4 UNIT SLIDING
P	1	18'-0" X 8'-0" INSULATED OVERHEAD DOOR
Q	2	2'-0" GLASS SHOWER DOOR (TEMP.)
R	2	2'-0" GLASS SHOWER DOOR (TEMP.)
S	2	2'-0" GLASS SHOWER DOOR (TEMP.)

ID	QTY	DESCRIPTION
1	6	2'-0" X 3'-0" CABINET 8 UNIT (3x4 CTR. FIXED)
2	1	11'-0" SHOE TRANSOM 2'-0" CTR. TRANSOM
3	1	4'-6" X 5'-0" CABINET 3 UNIT (4'-6" CTR. FIXED)
4	2	2'-0" X 5'-6" CABINET 1
5	2	3'-0" X 5'-6" CABINET 2 UNIT
6	2	4'-0" X 4'-6" CABINET 2 UNIT
7	2	3'-0" X 3'-0" CABINET 1
8	2	3'-0" X 3'-0" CABINET 1
9	2	6'-0" X 5'-0" FIXED TRANSOM
10	1	4'-0" X 2'-0" CABINET 1
11	1	3'-6" X 2'-0" CABINET 1
12	1	3'-6" X 2'-0" CABINET 1
13	1	6'-0" X 4'-6" CABINET 2 UNIT
14	1	2'-6" X 2'-0" CABINET 1

**WALL SCHEDULE**

- 3 1/2" FINISHED WALL
- 3 1/2" FINISHED WALL
- 3 1/2" FINISHED WALL
- 3 1/2" FINISHED WALL

**NOTE:**  
VERIFY ALL FIELD DIMENSIONS PRIOR TO CONSTRUCTION.  
BUILD-IN CABINETRY SHALL BE SELECTED BY OWNER.

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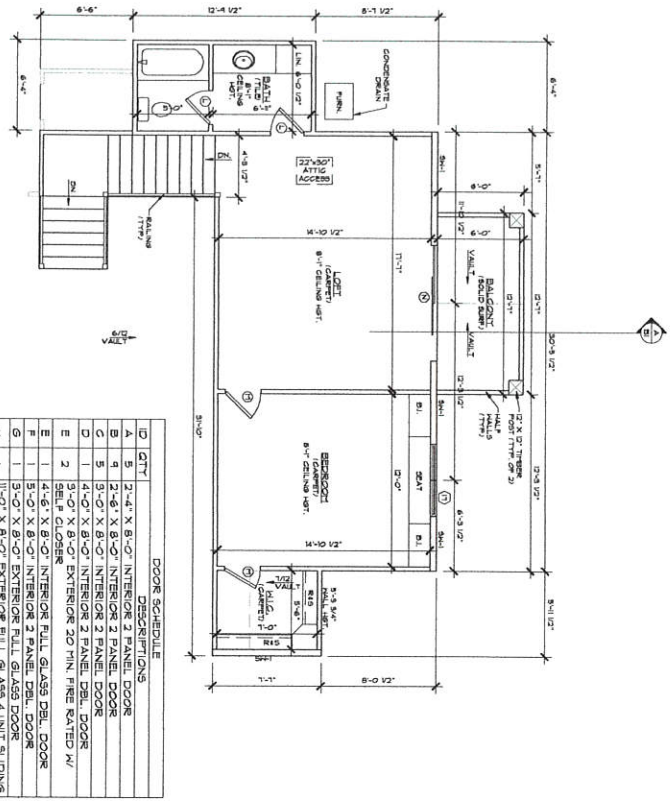
MAIN R. COR. 29'01" SQ. FT.  
GARAGE 60'01" SQ. FT.  
COVERED DECK 1034' SQ. FT.  
COVERED PORCH 1034' SQ. FT.

DATE: 12/02/2016  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
SCALE: 1/8" = 1'-0"

PROJECT TITLE: MAIN LEVEL FLOOR PLAN  
OWNER: [Name]  
DESIGNER: [Name]

HABITATIONS  
RESIDENTIAL DESIGN GROUP  
PHONE: 801-416-1860  
WEBSITE: [URL]

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REQUIREMENTS AT THE JOB SITE PRIOR TO CONSTRUCTION. THIS PLAN IS THE SOLE PROPERTY OF HABITATIONS AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED USE OF THIS PLAN WITHOUT THE WRITTEN AUTHORIZATION OF HABITATIONS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND REQUIREMENTS AT THE JOB SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THIS PLAN AND THE FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE ARCHITECT SHALL BE RESPONSIBLE FOR RESOLVING ANY DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND REQUIREMENTS AT THE JOB SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THIS PLAN AND THE FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE ARCHITECT SHALL BE RESPONSIBLE FOR RESOLVING ANY DISCREPANCIES.



**SHEAR WALL NOTES**

1. ALL EXTERIOR WALLS SHALL BE 12" THICK UNLESS NOTED OTHERWISE.

2. ALL INTERIOR WALLS SHALL BE 8" THICK UNLESS NOTED OTHERWISE.

3. ALL WALLS SHALL BE CONCRETE UNLESS NOTED OTHERWISE.

4. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

5. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

6. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

**SHEAR WALL SCHEDULE**

NO.	QTY.	DESCRIPTION
1	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
2	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
3	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
4	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
5	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
6	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
7	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
8	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
9	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
10	1	12" X 8" EXTERIOR SLIDING GLASS DOOR

**DOOR SCHEDULE**

ID	QTY	DESCRIPTION
A	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
B	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
C	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
D	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
E	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
F	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
G	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
H	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
I	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
J	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
K	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
L	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
M	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
N	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
O	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
P	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
Q	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
R	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
S	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
T	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
U	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
V	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
W	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
X	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR
Y	1	6'-0" X 8'-0" EXTERIOR FULL GLASS DEL. DOOR
Z	1	6'-0" X 8'-0" EXTERIOR SLIDING GLASS DOOR

**WALL SCHEDULE**

ID	QTY	DESCRIPTION
1	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
2	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
3	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
4	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
5	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
6	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
7	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
8	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
9	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
10	1	12" X 8" EXTERIOR SLIDING GLASS DOOR

**IMPORTANT NOTE**

1. ALL EXTERIOR WALLS SHALL BE 12" THICK UNLESS NOTED OTHERWISE.

2. ALL INTERIOR WALLS SHALL BE 8" THICK UNLESS NOTED OTHERWISE.

3. ALL WALLS SHALL BE CONCRETE UNLESS NOTED OTHERWISE.

4. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

5. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

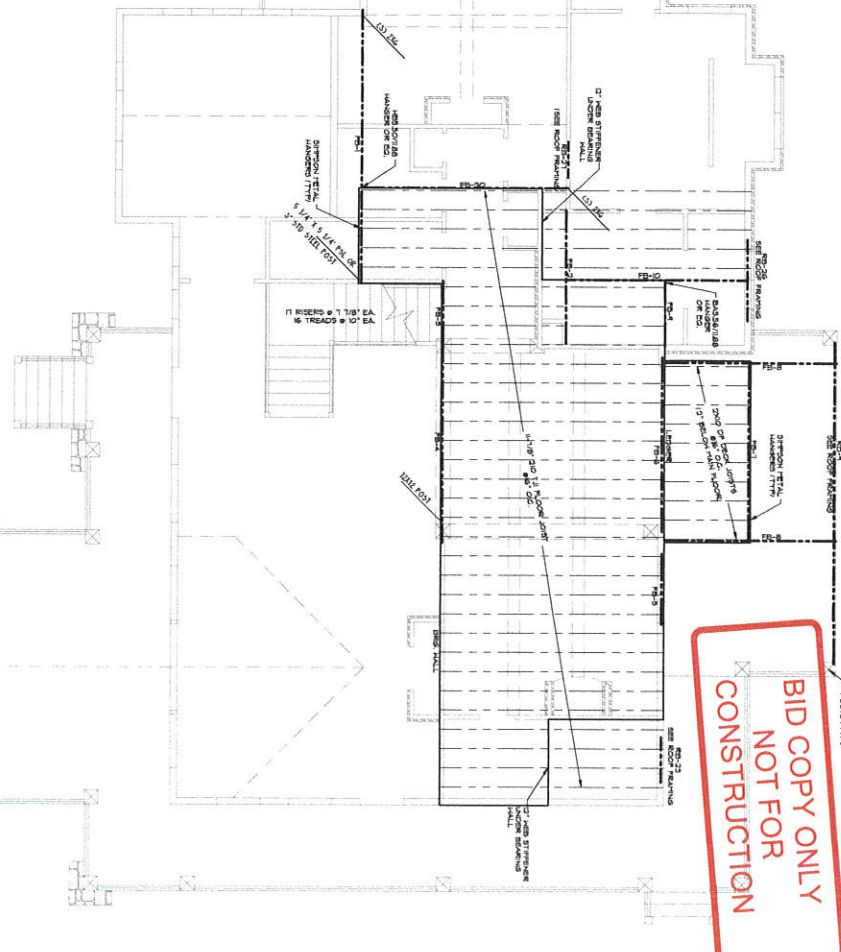
6. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

**FLOOR BEAM SCHEDULE**

ID	QTY	DESCRIPTION
1	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
2	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
3	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
4	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
5	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
6	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
7	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
8	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
9	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
10	1	12" X 8" EXTERIOR SLIDING GLASS DOOR

**MINION SCHEDULE**

ID	QTY	DESCRIPTION
1	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
2	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
3	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
4	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
5	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
6	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
7	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
8	1	12" X 8" EXTERIOR SLIDING GLASS DOOR
9	1	12" X 8" EXTERIOR FULL GLASS DEL. DOOR
10	1	12" X 8" EXTERIOR SLIDING GLASS DOOR



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**IMPORTANT NOTE**

1. ALL EXTERIOR WALLS SHALL BE 12" THICK UNLESS NOTED OTHERWISE.

2. ALL INTERIOR WALLS SHALL BE 8" THICK UNLESS NOTED OTHERWISE.

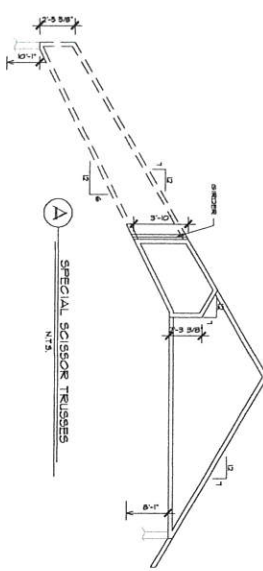
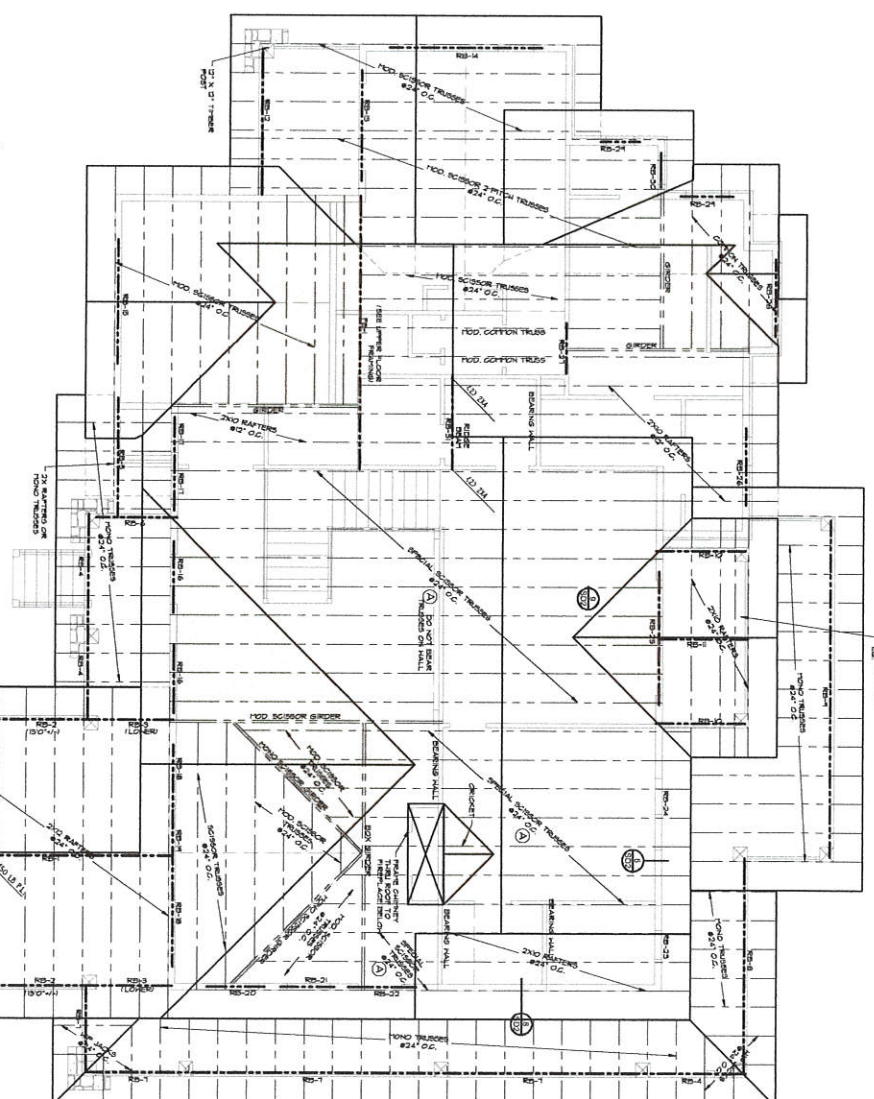
3. ALL WALLS SHALL BE CONCRETE UNLESS NOTED OTHERWISE.

4. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

5. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

6. ALL WALLS SHALL BE FINISHED WITH 5/8" TYPE X-20 GABERMENT 2 UNIT GYPSUM BOARD OVER 1/2" TYPE X-20 GABERMENT 2 UNIT SHEET ROOFING FIBERGLASS SHEET.

- 3/24/2014 10:04 AM
- ALL TRUSS ROOFING SHALL BE CONSTRUCTED BY THE CONTRACTOR TO COMPLY WITH THE ROOFING SPECIFICATIONS AND TO MATCH THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM.
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  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM.



¾" SHEATHING REQUIRED

LEGEND

(Symbol)	2x OVERBUILT
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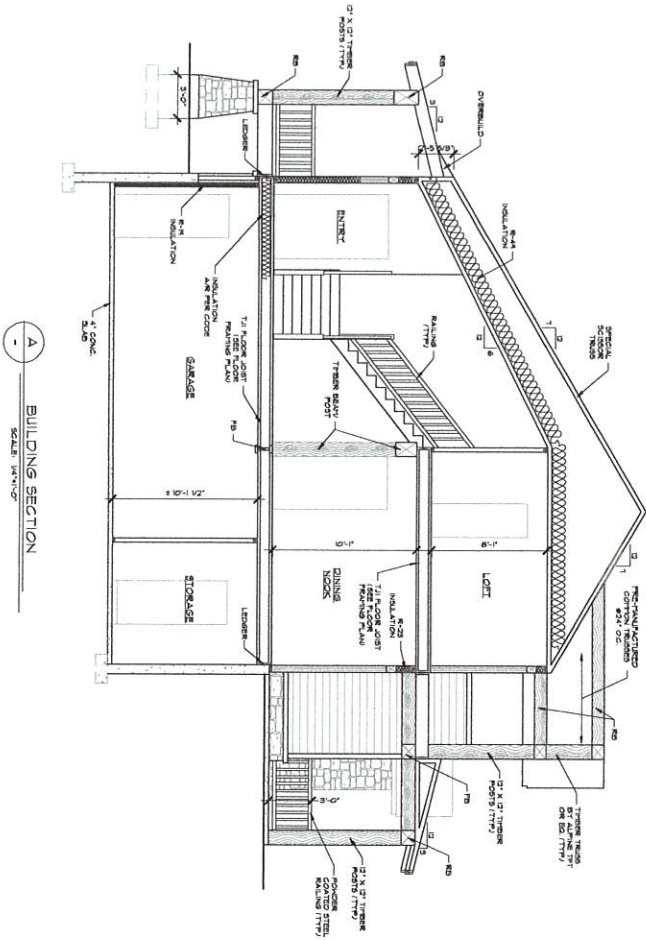
**IMPORTANT NOTE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE ROOFING SYSTEM.

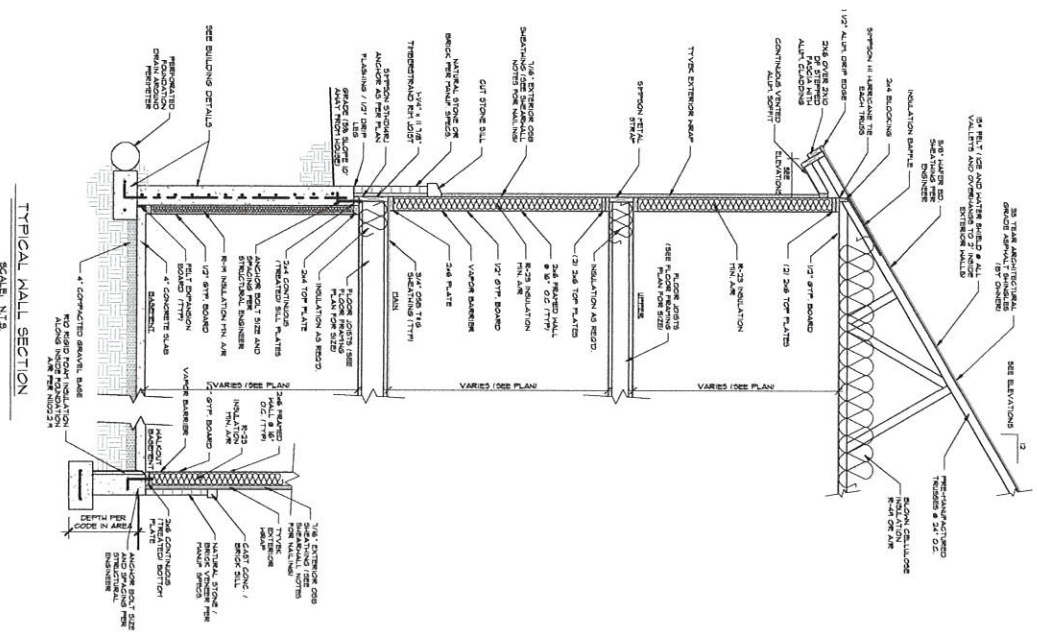
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SCOPED BREAK SCHEDULE

TRUSS	TYPE	QUANTITY	REMARKS
1	2x4	1	TRUSS
2	2x6	1	TRUSS
3	2x8	1	TRUSS
4	2x10	1	TRUSS
5	2x12	1	TRUSS
6	2x14	1	TRUSS
7	2x16	1	TRUSS
8	2x18	1	TRUSS
9	2x20	1	TRUSS
10	2x22	1	TRUSS
11	2x24	1	TRUSS
12	2x26	1	TRUSS
13	2x28	1	TRUSS
14	2x30	1	TRUSS
15	2x32	1	TRUSS
16	2x34	1	TRUSS
17	2x36	1	TRUSS
18	2x38	1	TRUSS
19	2x40	1	TRUSS
20	2x42	1	TRUSS
21	2x44	1	TRUSS
22	2x46	1	TRUSS
23	2x48	1	TRUSS
24	2x50	1	TRUSS
25	2x52	1	TRUSS
26	2x54	1	TRUSS
27	2x56	1	TRUSS
28	2x58	1	TRUSS
29	2x60	1	TRUSS
30	2x62	1	TRUSS
31	2x64	1	TRUSS
32	2x66	1	TRUSS
33	2x68	1	TRUSS
34	2x70	1	TRUSS
35	2x72	1	TRUSS
36	2x74	1	TRUSS
37	2x76	1	TRUSS
38	2x78	1	TRUSS
39	2x80	1	TRUSS
40	2x82	1	TRUSS
41	2x84	1	TRUSS
42	2x86	1	TRUSS
43	2x88	1	TRUSS
44	2x90	1	TRUSS
45	2x92	1	TRUSS
46	2x94	1	TRUSS
47	2x96	1	TRUSS
48	2x98	1	TRUSS
49	2x100	1	TRUSS



**BUILDING SECTION**  
SCALE: 1/4" = 1'-0"



**TYPICAL WALL SECTION**  
SCALE: N.T.S.

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CONSTRUCTION**

DATE	1/20/2016
DESIGNER	H. STEELE
PROJECT NUMBER	TS2913
SHEET NUMBER	B1 of 23

SHEET TITLE	BUILDING SECTIONS
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- ELECTRICAL NOTES:**
- UNDERGROUND ELECTRICAL SERVICES SHALL BE ATTACHED TO 2" PVC ELECTRICAL SCHED TO MINIMUM DEPTH OF 24" IN CONCRETE.
  - ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL CODES.
  - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL CODES.

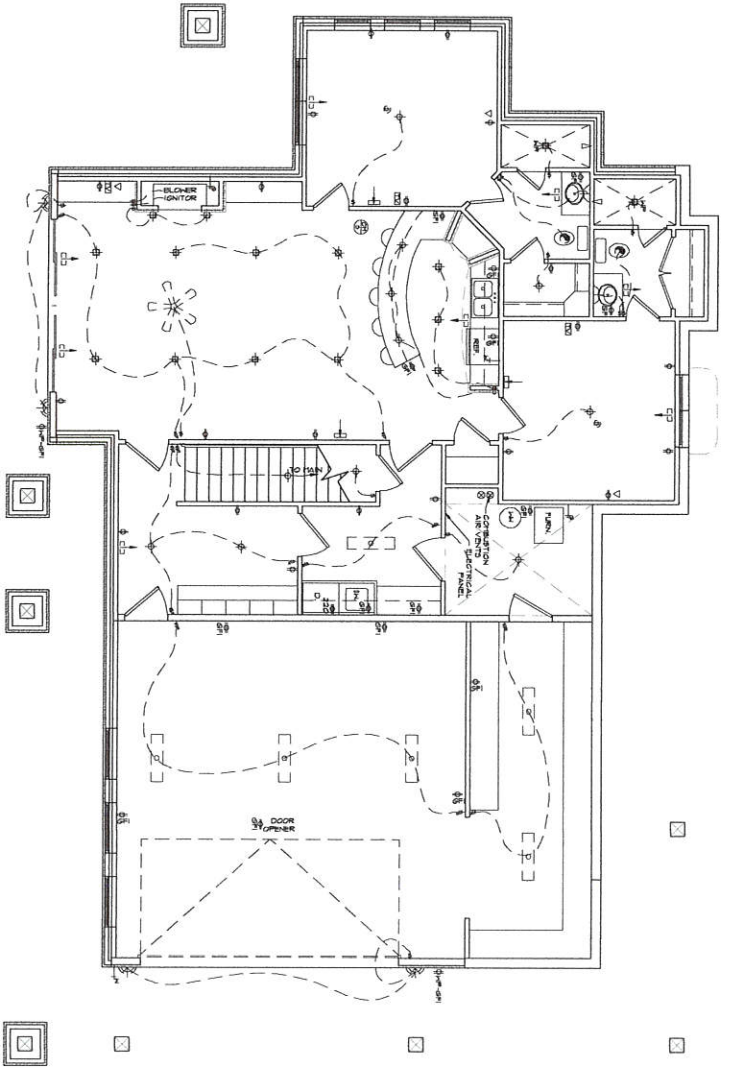
ELECTRICAL LEGEND	
⊕	RECEPTION
⊖	TO VOLTAGE SERVICE
⊕	200 VOLT RECEPTACLE
⊖	TO GROUND HALL CIRCUIT ATTENUATING RECEPTACLE
⊕	TO GROUND HALL RECEPTACLE (HALLWAY RECEPTACLE)
⊕	570 LIGHTING
⊕	570 LIGHT EQUIPMENT IN HALL CLOAK
⊕	SHOULD POLE SWITCH
⊕	THREE WAY SWITCH
⊕	FOUR WAY SWITCH
⊕	SHIELD WIRE SWITCH INTERRUPTER
⊕	PHONE / DATA RECEPTACLE
⊕	TELEVISION RECEPTACLE (CABLE, COAXIAL, CABLE)
⊕	SPEED DETECTOR (SEE NOTE AT BOTTOM)
⊕	COMMON HOUSING DETECTOR / SMOKE ALARM
⊕	FLOOR/CEILING FAN (REPLACE FAN/OUT)
⊕	FLOOR/CEILING FAN (REPLACE)
⊕	HALL MOUNTED SOUNDER
⊕	TOPICAL SOUNDING FLOOR LIGHTS
⊕	CEILING FAN IN LIGHTS
⊕	IN FLOOR TO VOLT RECEPTACLE
⊕	STAIR LIGHT FIXTURE
⊕	EXTERIOR RECESSED LIGHTING (HALLWAY)
⊕	EXTERIOR RECESSED LIGHTING (HALLWAY)
⊕	EXTERIOR COUNTER LIGHTS
⊕	EXTERIOR VENTILATION WINDOW HALL MOUNTED SOUNDER

**MECHANICAL LEGEND**

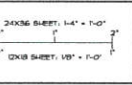
NOTE: 1. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE LOCAL CODES.

2. EXTERIOR LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL CODES.

3. EXTERIOR LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL CODES.



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SHEET TITLE:  
**LOWER LEVEL ELECTRICAL / HVAC PLAN**

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CREATED BY:  
N. COOPER  
DATE:  
11/20/2016  
DRAWN BY:  
H. STELL  
DATE:  
11/20/2016  
PROJECT NUMBER:  
T52913  
SHEET NUMBER:  
E of 23

**ELECTRICAL LEGEND**

(Symbol)	220 VOLT RECEPTACLE
(Symbol)	30 AMP GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
(Symbol)	RECEPTACLE (ONLY LIGHTING)
(Symbol)	570 LIGHTING
(Symbol)	570 LIGHT EQUIPPED IN ALL ZONE
(Symbol)	SINGLE POLE SWITCH
(Symbol)	THREE WAY SWITCH
(Symbol)	ROOF AIR UNIT SWITCH
(Symbol)	3 WAY POLE SWITCH (ROTARY)
(Symbol)	TELEVISION RECEPTACLE (CONVEX, CONVEX)
(Symbol)	SMOKE DETECTOR (SEE NOTE AT LOCATIONS)
(Symbol)	CHARGING PORT (SEE NOTE AT LOCATIONS)
(Symbol)	FLUORESCENT (ROOF) (SURFACE MOUNTED)
(Symbol)	FLUORESCENT (ROOF) (RECESSED)
(Symbol)	WALL MOUNTED SCONCE
(Symbol)	TRIPOLI SENSITIVE FLOOD LIGHTS
(Symbol)	TRIPOLI SENSITIVE FAN
(Symbol)	TRIPOLI SENSITIVE LIGHTING
(Symbol)	TRIPOLI SENSITIVE FAN
(Symbol)	TRIPOLI SENSITIVE LIGHTING
(Symbol)	TRIPOLI SENSITIVE LIGHTING
(Symbol)	TRIPOLI SENSITIVE LIGHTING

**ELECTRICAL NOTES:**

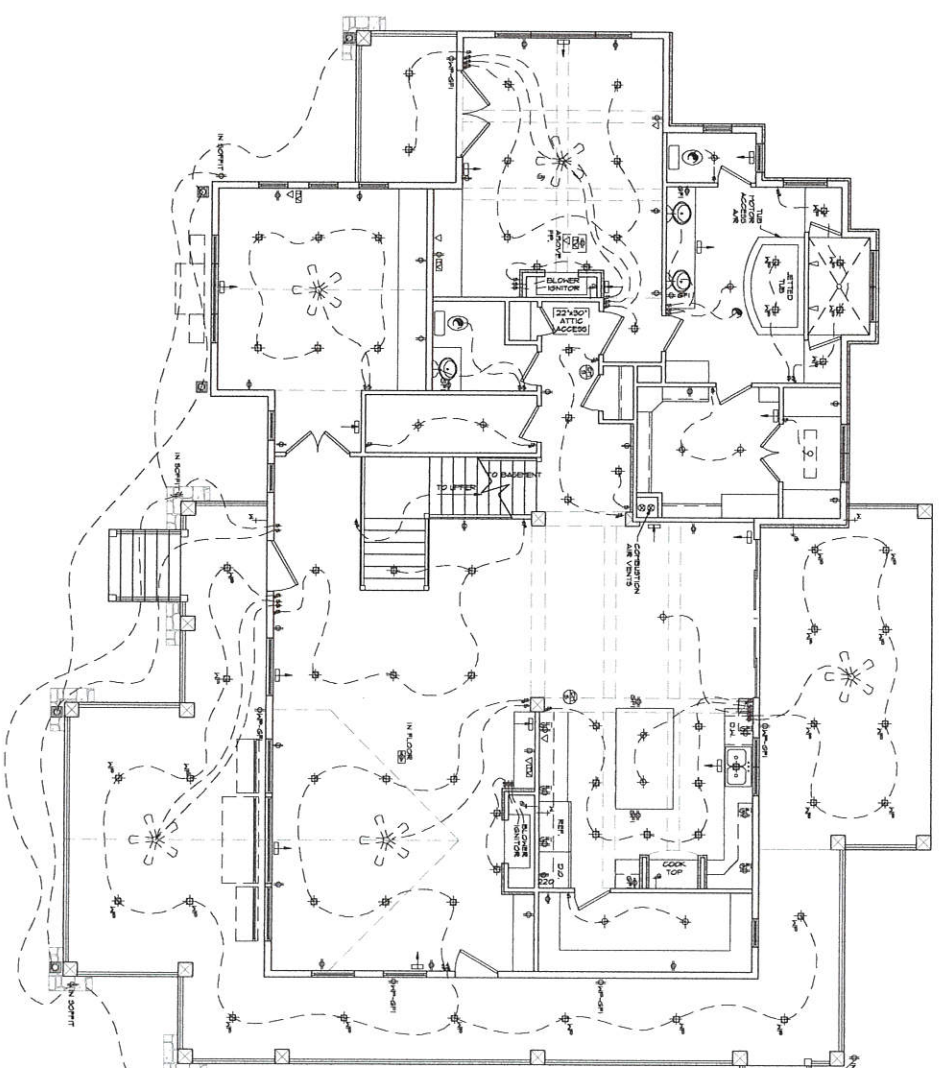
- 1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 2. ALL ELECTRICAL MATERIALS SHALL BE LISTED FOR THE APPLICATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 4. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 5. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 6. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 7. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL AND STATE REGULATIONS.

**MECHANICAL LEGEND**

(Symbol)	CONDUIT
(Symbol)	AIR RETURN REGISTER
(Symbol)	AIR SUPPLY REGISTER (H/V) IN ROOM
(Symbol)	AIR SUPPLY REGISTER (H/V) IN CEILING
(Symbol)	NATURAL GAS COCK
(Symbol)	FYI (FUTURE) WATER NOSE FOR MAINTENANCE SERVICE
(Symbol)	MECHANICAL HEAD TERMINUS IN CONCRETE

**NOTES:**

- 1. PROVIDE SCHEDULE 40, 1-1/2" DIA. STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 2. PROVIDE 2" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 3. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 4. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 5. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 6. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 7. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 8. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 9. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.
- 10. PROVIDE 1/4" DIA. GALVANIZED STEEL SUPPORT RODS FOR ALL REGISTER AND CONCEALED DUCTWORK.



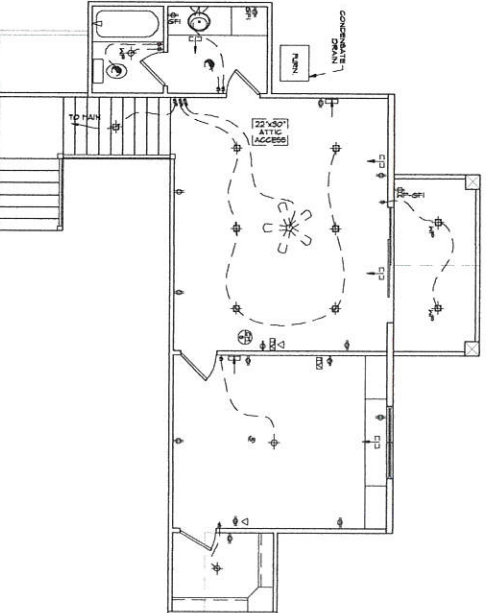
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**ELECTRICAL NOTES:**

- ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 INTERNATIONAL RESIDENTIAL ELECTRICAL CODE (IRC) AND ALL AMENDMENTS THERETO THROUGH 2014.
- ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 INTERNATIONAL ELECTRIC CODE (IEC) AND ALL AMENDMENTS THERETO THROUGH 2014.
- ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 INTERNATIONAL MECHANICAL CODE (IMC) AND ALL AMENDMENTS THERETO THROUGH 2014.
- ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 INTERNATIONAL PLUMBING AND MECHANICAL HANGING AND SUPPORTING CODE (IMHS) AND ALL AMENDMENTS THERETO THROUGH 2014.

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
	220 VOLT RECEPTACLE
	120 GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	RECEPTACLE (GANG) LIGHTING
	STD. LIGHTING
	STD. LIGHT EQUIPMENT IN WALL CHAIN
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	ROOM AIR SWITCH
	PHONE / DATA RECEPTACLE
	TELEVISION RECEPTACLE (COAXIAL) CABLE
	SIGNAL DISTRIBUTION (SEE NOTE AT BOTTOM)
	COMMON TROUBLE SHOOTER / SMOKE ALARM
	FLUORESCENT FIXTURE (SURFACE MOUNTED)
	FLUORESCENT FIXTURE (RECESSED)
	MALL MOUNTED SCENE
	TYPICAL SENSITIVE FLOOD LIGHTS
	ELECTRIC VENT FAN
	CEILING FAN W/ LIGHTS
	IN R.CROOK TO VOLT RECEPTACLE
	STAKE LIGHT FIXTURE
	EXTENSION RECEPT. LIGHTING (JUNCTION ROOM)
	UNDER COUNTER LIGHTS
	EXTENSION RECEPT. ROOM (MALL MOUNTED SCENE)



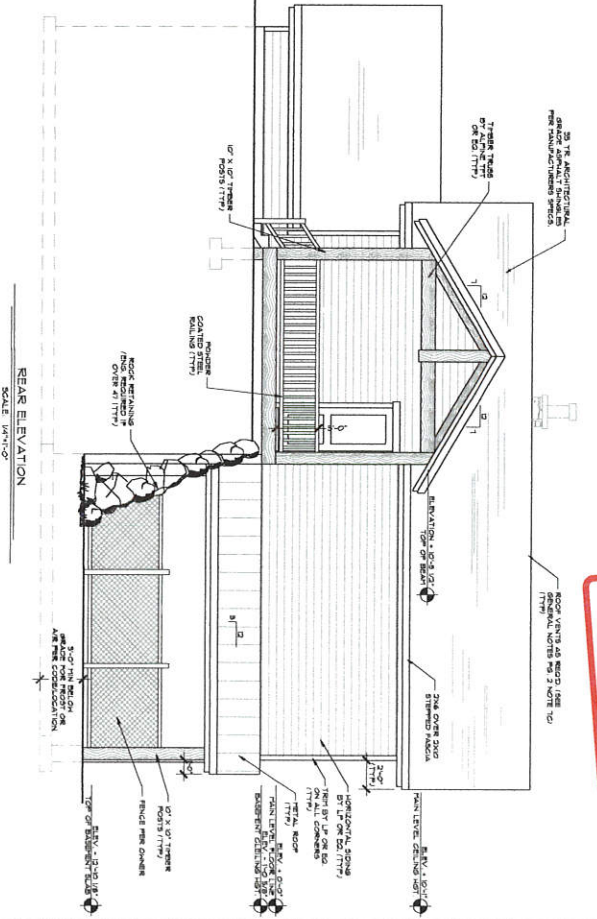
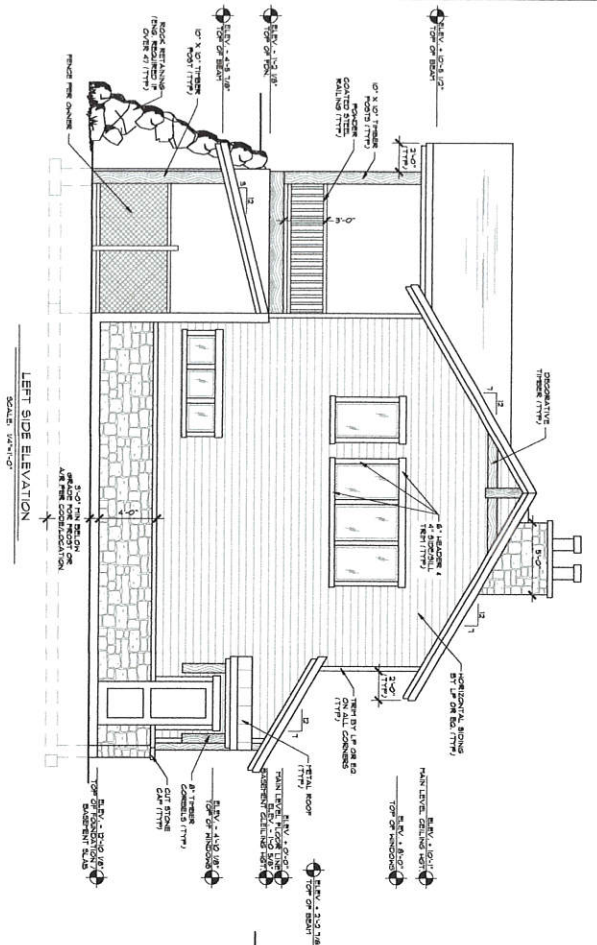
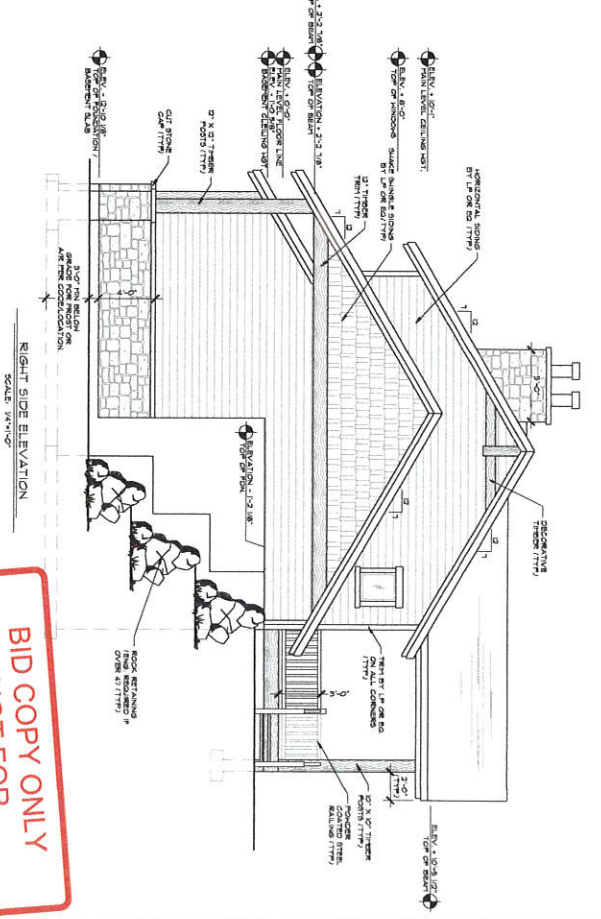
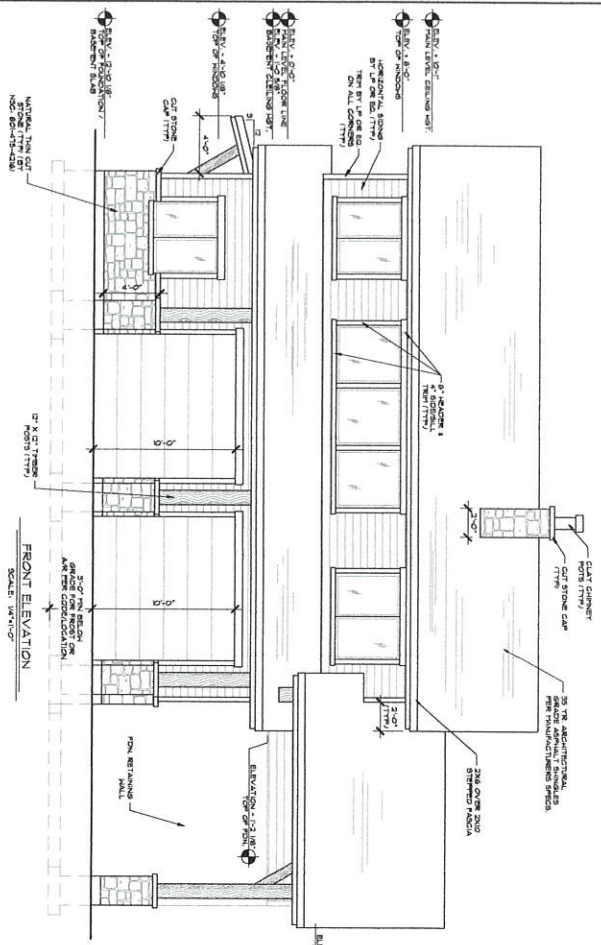
**MECHANICAL LEGEND**

SYMBOL	DESCRIPTION
	AIR RETURN REGISTER
	AIR SUPPLY REGISTER (4\"/>
	AIR SUPPLY REGISTER (4\"/>
	NATURAL GAS COCK
	FRICTIONAL WATER VALVE (BIB) W/ANTI-CORROSION DEVICE
	WASHOUT W/AT TRENCH IN CONCOURSE

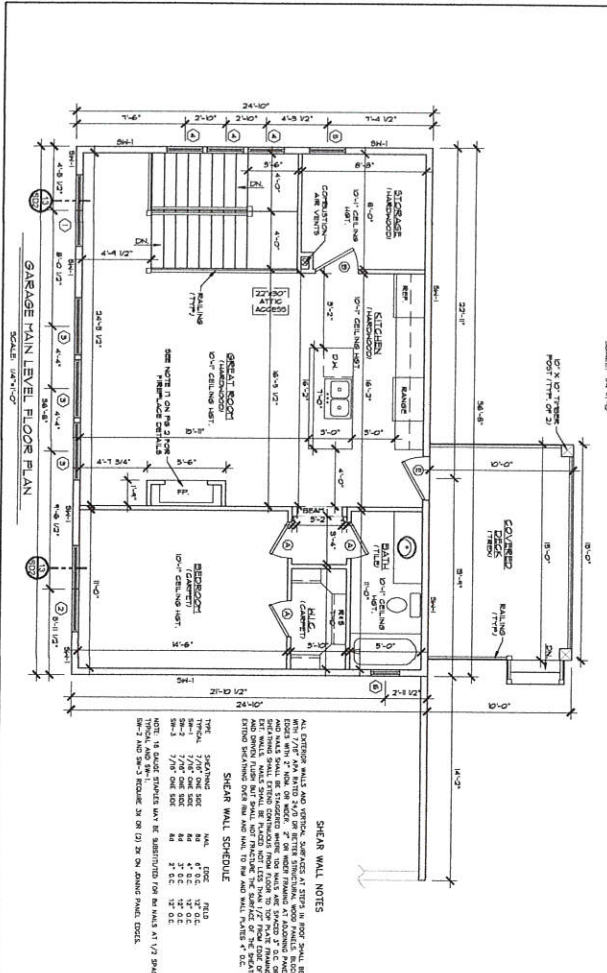
NOTE: RETURN / DISTRIBUTION DUCTING NOT SHOWN

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

**DOOR SCHEDULE**

ID	QTY	DESCRIPTIONS
1	3	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
2	3	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
3	3	3'-0" X 8'-0" INTERIOR 2 PANEL DOOR
4	1	3'-0" X 8'-0" INTERIOR 20 FIN. FIBRE KATED W/ SELF CLOSER
5	1	3'-0" X 8'-0" INTERIOR FULL GLASS DOOR
6	1	3'-0" X 10'-0" INSULATED OVERHEAD DOOR

**WINDOW SCHEDULE**

ID	QTY	DESCRIPTIONS
1	2	6'-0" X 4'-6" CASSETT 2 UNIT
2	1	6'-0" X 4'-6" CASSETT 2 UNIT
3	3	2'-6" X 3'-6" CASSETT (TEMP)
4	3	2'-6" X 3'-6" CASSETT (TEMP)
5	1	2'-0" X 2'-0" CASSETT (TEMP)

**WALL SCHEDULE**

TYPE	FINISH	FIELD
SPACING	4" OC	FIELD
1/2" GYPSUM BOARD	4" OC	FIELD
5/8" GYPSUM BOARD	4" OC	FIELD
3/4" GYPSUM BOARD	4" OC	FIELD

**NOTES**

- UNLESS OTHERWISE SPECIFIED ALL CASES BY THE MAIN CONTRACTOR TO BE INSTALLED AS SHOWN.
- HALLS TO BE FINISHED WITH TRIMMING SHEETS.
- VERIFY ALL FIELD DIMENSIONS BEFORE TO CONSTRUCTION.

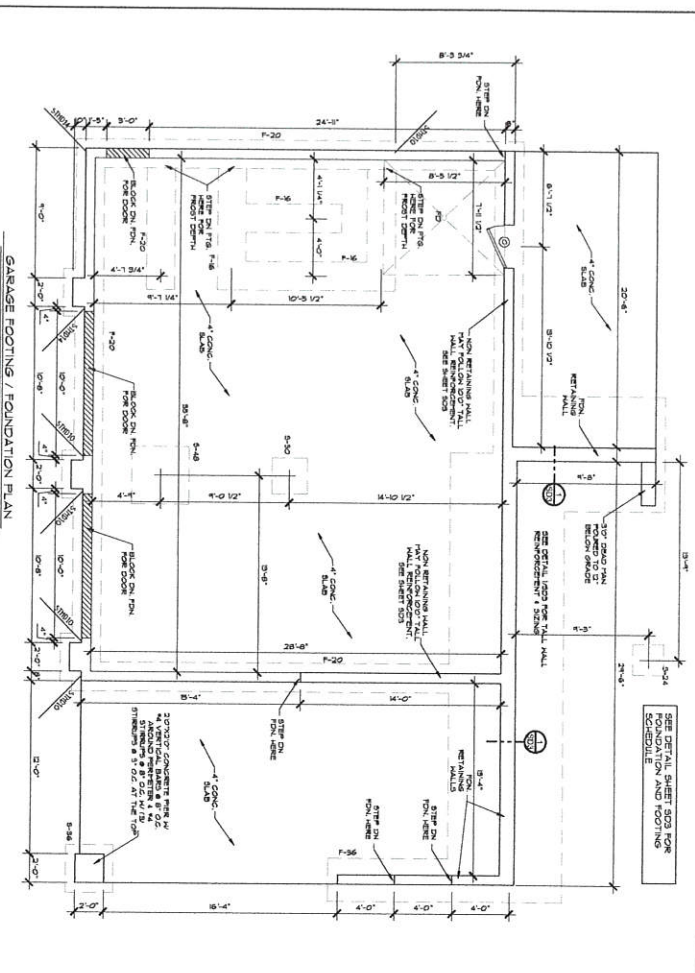
MAIN LEVEL GARAGE

GARAGE	607 SQ. FT.
COVERED DRIVE	1034 SQ. FT.
COVERED PORCH	1034 SQ. FT.

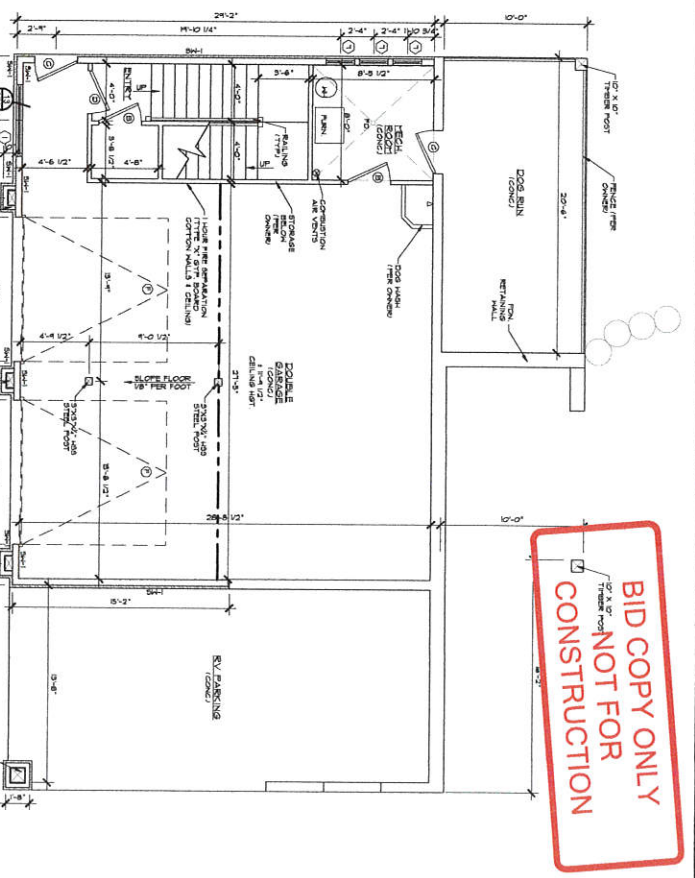
DATE: 1/20/2016

PROJECT NUMBER: TS2913

SHEET NUMBER: G2 of 23



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



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



VOICE: 801-476-8660  
FAX: 801-476-8628

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GARAGE PDN/FTG. & LOWER & MAIN LEVEL FLOOR PLANS

SHEET TITLE: GARAGE PDN/FTG. & LOWER & MAIN LEVEL FLOOR PLANS

DATE: 1/20/2016

PROJECT NUMBER: TS2913

SHEET NUMBER: G2 of 23

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND ALL OTHER AFFECTING AGENCIES PRIOR TO COMMENCEMENT OF WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND ALL OTHER AFFECTING AGENCIES PRIOR TO COMMENCEMENT OF WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND ALL OTHER AFFECTING AGENCIES PRIOR TO COMMENCEMENT OF WORK.

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5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND ALL OTHER AFFECTING AGENCIES PRIOR TO COMMENCEMENT OF WORK.

**IMPORTANT NOTE:**

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**IMPORTANT NOTE:**

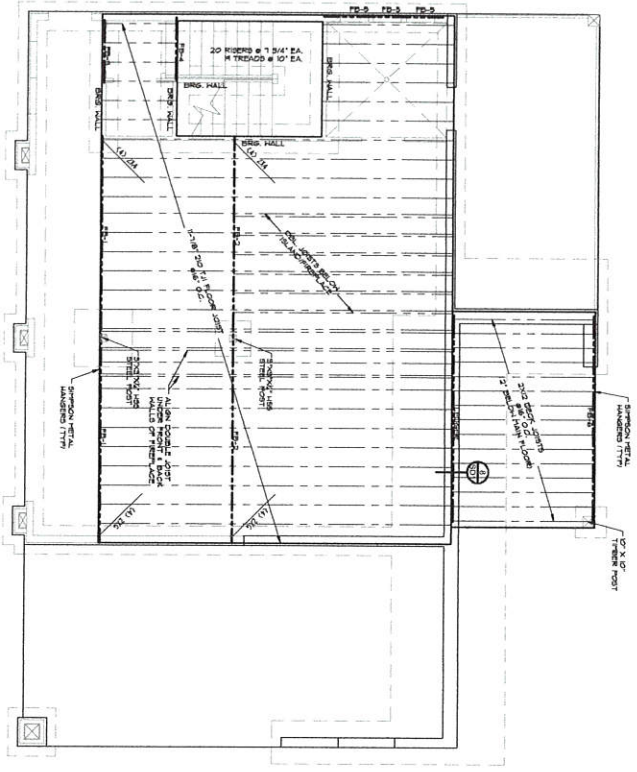
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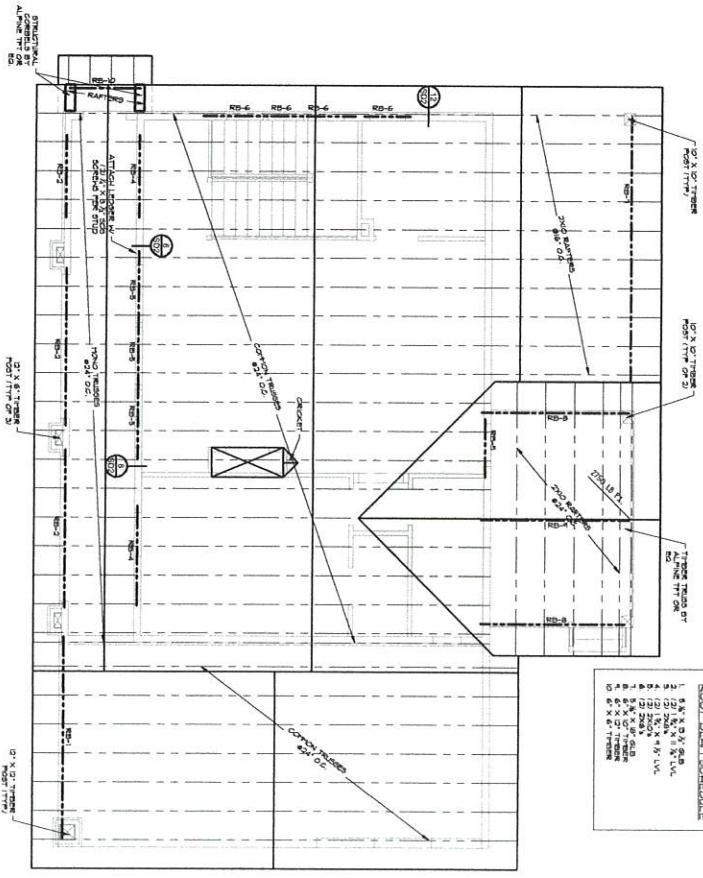
2X OVERBUILD



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

**FLOOR BEAM SCHEDULE**

1	2" X 8" S.P.F. LVL
2	2" X 8" S.P.F. LVL
3	2" X 8" S.P.F. LVL
4	2" X 8" S.P.F. LVL
5	2" X 8" S.P.F. LVL
6	2" X 8" S.P.F. LVL
7	2" X 8" S.P.F. LVL
8	2" X 8" S.P.F. LVL
9	2" X 8" S.P.F. LVL
10	2" X 8" S.P.F. LVL
11	2" X 8" S.P.F. LVL
12	2" X 8" S.P.F. LVL

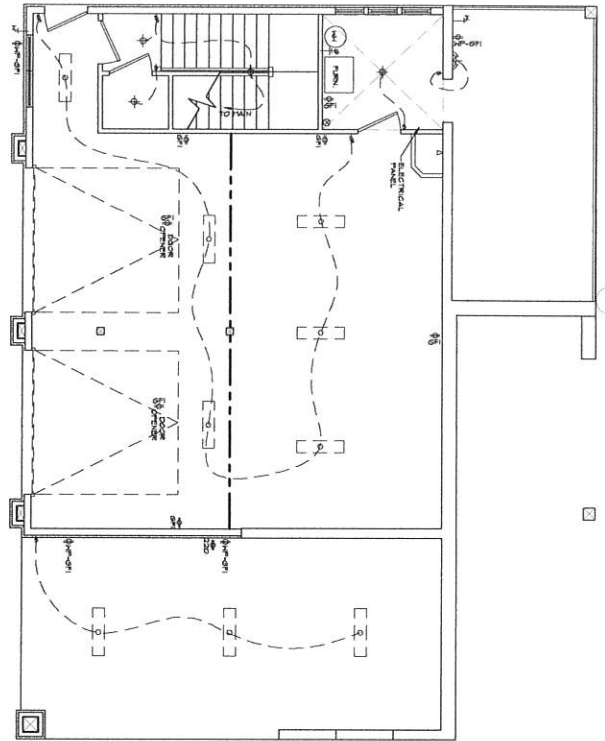


3/8" SHEATHING REQUIRED  
GARAGE ROOF FRAMING PLAN  
SCALE: 3/8"=1'-0"

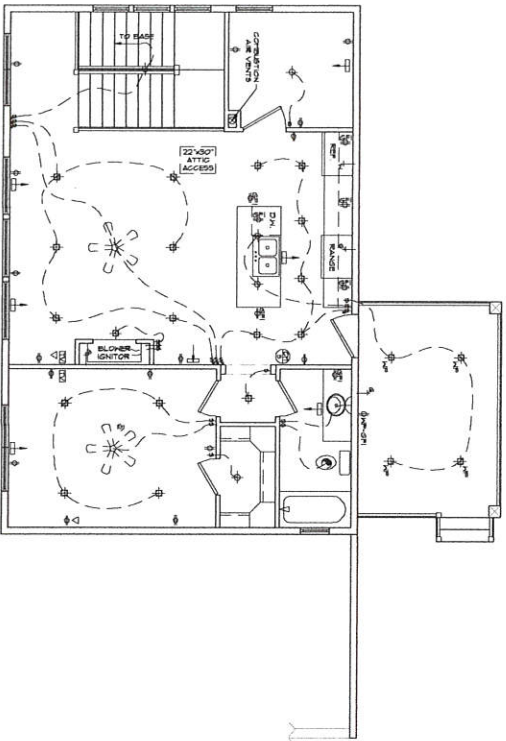
**ROOF BEAM SCHEDULE**

1	2" X 8" S.P.F. LVL
2	2" X 8" S.P.F. LVL
3	2" X 8" S.P.F. LVL
4	2" X 8" S.P.F. LVL
5	2" X 8" S.P.F. LVL
6	2" X 8" S.P.F. LVL
7	2" X 8" S.P.F. LVL
8	2" X 8" S.P.F. LVL
9	2" X 8" S.P.F. LVL
10	2" X 8" S.P.F. LVL
11	2" X 8" S.P.F. LVL
12	2" X 8" S.P.F. LVL

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GARAGE LOWER LEVEL ELECTRICAL / HVAC PLANS  
SCALE: 1/8" = 1'-0"



GARAGE MAIN LEVEL ELECTRICAL / HVAC PLANS  
SCALE: 1/8" = 1'-0"

- ELECTRICAL NOTES:**
- 1. UNLESS NOTED OTHERWISE, ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
  - 2. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
  - 3. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
  - 4. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
  - 5. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.

ID	DESCRIPTION
1	120 VOLT RECEPTACLE
2	220 VOLT RECEPTACLE
3	50 AMPERE 240 VOLT CIRCUIT INTERRUPTER RECEPTACLE
4	RECESSED CAN LIGHTING
5	570 LIGHTING
6	570 LIGHT EQUIPPED W/ BALL CHAIN
7	SINGLE POLE SWITCH
8	THREE WAY SWITCH
9	FOUR WAY SWITCH
10	SINGLE POLE SWITCH W/ROCKER
11	PHONE / DATA RECEPTACLE
12	TELEVISION RECEPTACLE (CONVULS, GATED)
13	SMOKE DETECTOR / FIRE ALARM AT BOTTOM
14	CARBON MONOXIDE DETECTOR / SMOKE ALARM
15	FLOORSCOPED PORTABLE (SUNSPACE PORTABLE)
16	FLOORSCOPED PORTABLE (RECESSED)
17	HALL POINTED SCENE
18	HALL POINTED SCENE
19	OPTIONAL EXHAUST FAN
20	ELECTRIC VENT FAN
21	CEILING FAN W/ LIGHTS
22	N FLOOR 120 VOLT RECEPTACLE
23	STAIR LIGHT FIXTURE
24	ENTRANCE RECESSED LIGHTING (HALLWAY RECESS)
25	ULCL
26	ENTRANCE RECESSED LIGHTING (HALLWAY RECESS)
27	UNDER CABINET LIGHTS

**MECHANICAL LEGEND**

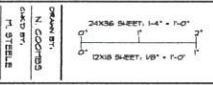
28	EXHAUSTION
29	AIR RETURN REGISTER
30	AIR SUPPLY REGISTER (14" X 14" IN FLOOR)
31	AIR SUPPLY REGISTER (14" X 14" IN CEILING)
32	NATURAL GAS COCK
33	POURABLE WATER UNDER BBS (PLUMBING SERVICE)
34	MECHANICAL PART FINISH IN CONCRETE

**NOTES:**

1. SMOKE DETECTORS SHALL BE INSTALLED IN CORRIDORS.
2. ALL RECESSED PORTABLE LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
3. ALL RECESSED PORTABLE LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
4. ALL RECESSED PORTABLE LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.
5. ALL RECESSED PORTABLE LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2008.

MAIN FLOOR: 3000 SQ. FT.  
 GARAGE: 6075 SQ. FT.  
 COVERED DECK: 1034 SQ. FT.  
 COVERED PORCH: 1034 SQ. FT.

SHEET NO. 17/20/2016  
 DATE: 12/20/16  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

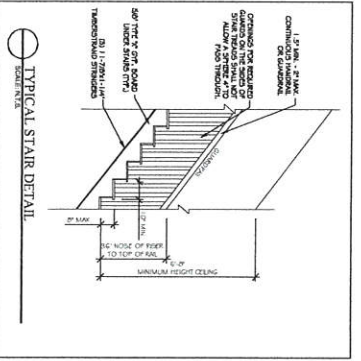
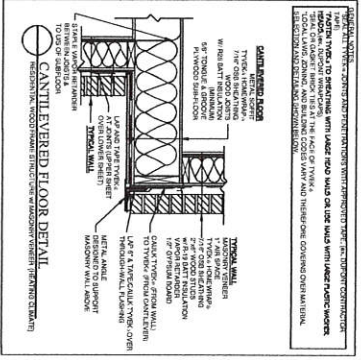
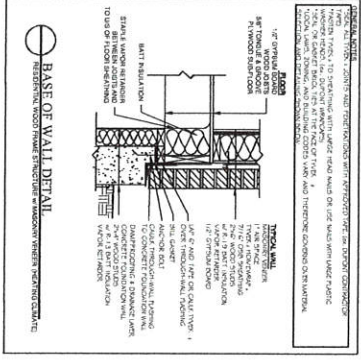
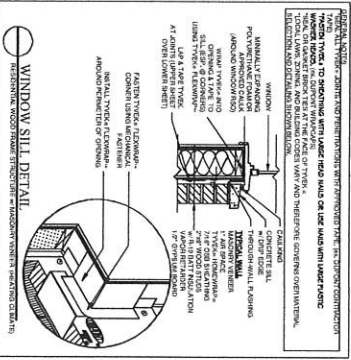
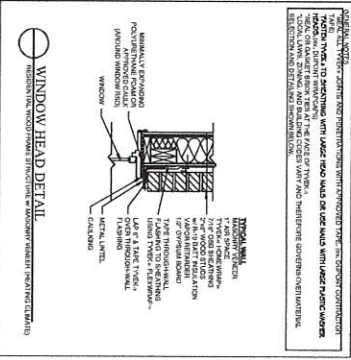
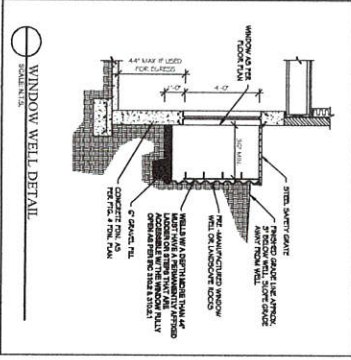
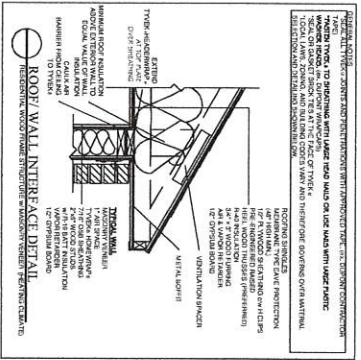
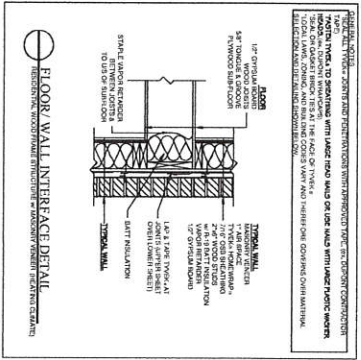


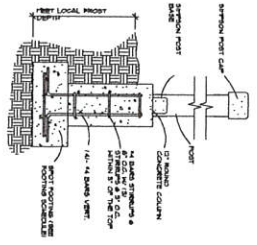
SHEET TITLE:  
**GARAGE MAIN & LOWER LEVEL  
 ELECTRICAL / HVAC PLANS**

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**HABITATIONS**  
 RESIDENTIAL DESIGN GROUP

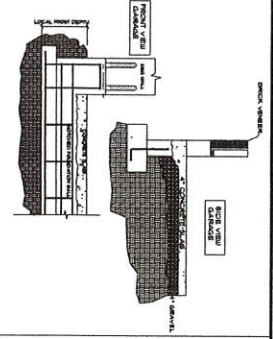
CONTRACTOR SHALL VERIFY ALL SITEWORK CONDITIONS AND REQUIREMENTS AT THE JOB SITE PRIOR TO CONSTRUCTION. THIS PLAN IS THE EXCLUSIVE PROPERTY OF HABITATIONS AND SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF HABITATIONS. ANY REPRODUCTION OR COPIING OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF HABITATIONS SHALL BE A VIOLATION OF THE COPYRIGHT LAW AND SHALL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

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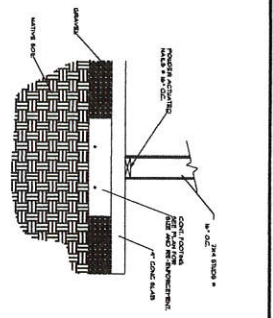




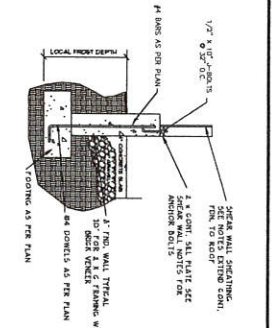
1) BEARING WALL FROM DETAIL



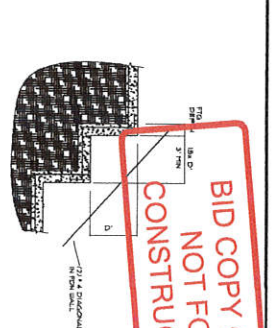
2) GIRAFFE STUD TO BOARD CONNECTION



3) INTERIOR BEARING WALL



4) FOUNDATION WALL



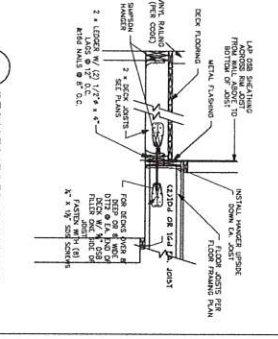
5) FOOTING STEP DETAIL

BEARING WALLS TO BE CONSTRUCTED AS FOLLOWS:

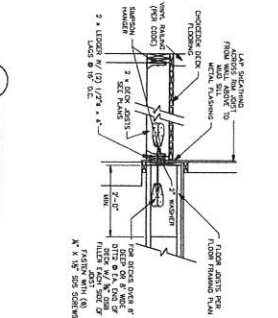
HEIGHT	STUD FRAMING
0' TO 10'	2x4s @ 16" o.c.
10' TO 12'	2x4s @ 12" o.c.
12' TO 14'	2x6s @ 16" o.c.
14' TO 16'	2x6s @ 12" o.c.
16' TO 20'	2x6 LSLs @ 12" o.c.

WALLS TALLER THAN 20' AND/OR OPENINGS GREATER THAN 6' WIDE TO BE SPECIFIED BY ENGINEER. USE DEL KING STUDS ON ALL WALLS 10' HIGH. USE 2X6 STUDS FOR ALL WALLS SUPPORTING OVER TWO LOADS.

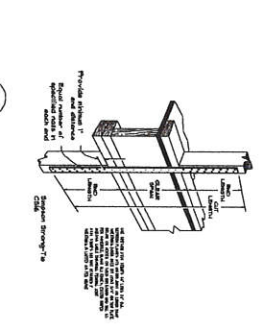
6) STUD FRAMING



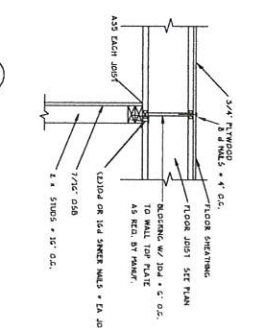
7) DECK LEDGER TO CANT FLOOR



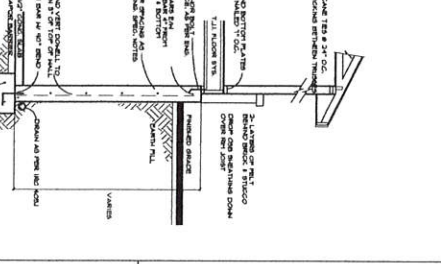
8) DECK ATTACHMENT



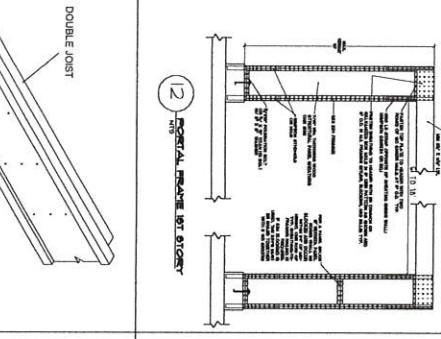
9) TYPE C SLAB DETAIL



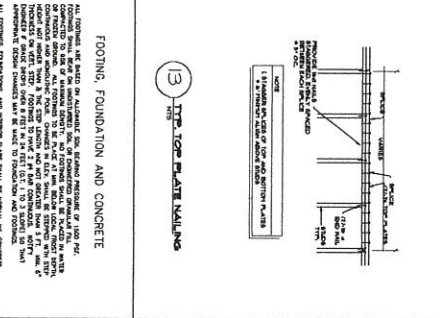
10) INTERIOR BEARING WALL



11) TYPICAL WALL SECTION



12) DOUBLE JOIST



13) TYPICAL TOP PLATE WALLING



14) JOIST FILLER BLOCKS PER MANUFACTURER

15) FOOTING FOUNDATION AND CONCRETE

16) FINISHING AND SHEATHING

17) FINISHING AND SHEATHING

18) FINISHING AND SHEATHING

19) FINISHING AND SHEATHING

THE CONTRACTOR SHALL USE THE FOLLOWING LAYER GROUPS UNLESS OTHERWISE NOTED:

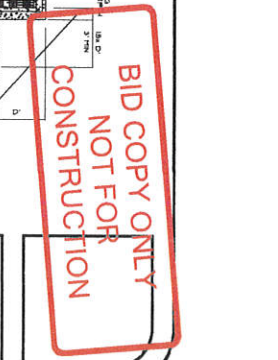
DESCRIPTION	THICKNESS
Grade	AS NOTED
1" 20 Mils. Thick EPS	1" 20 Mils. Thick
2" 40 Mils. Thick EPS	2" 40 Mils. Thick
4" 20 Mils. Thick EPS	4" 20 Mils. Thick
1" 20 Mils. Thick EPS	1" 20 Mils. Thick
1" 20 Mils. Thick EPS	1" 20 Mils. Thick
1" 20 Mils. Thick EPS	1" 20 Mils. Thick
1" 20 Mils. Thick EPS	1" 20 Mils. Thick
1" 20 Mils. Thick EPS	1" 20 Mils. Thick

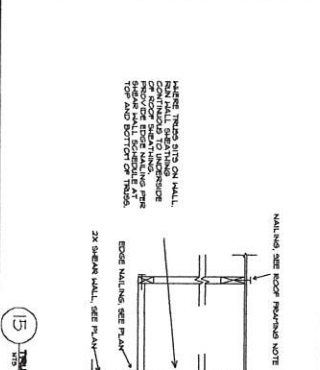
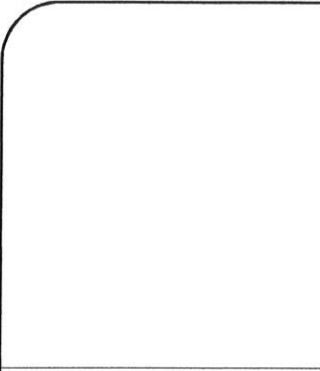
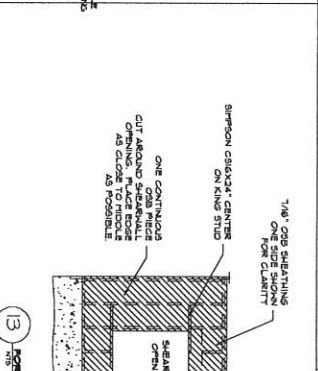
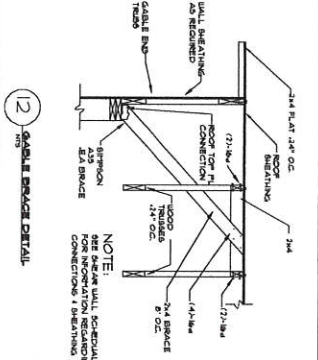
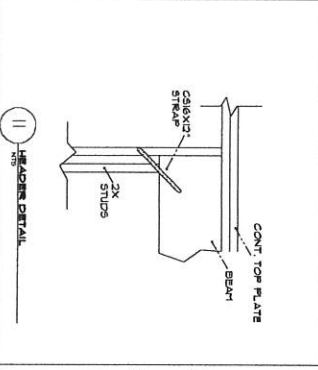
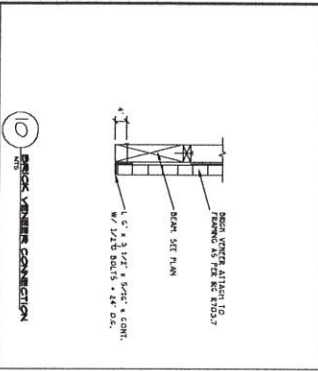
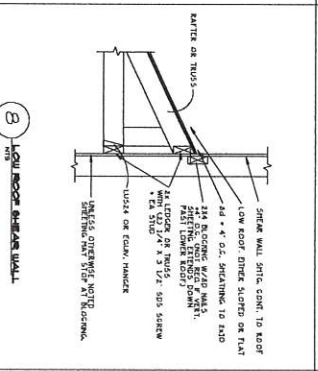
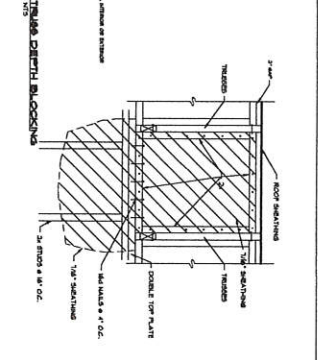
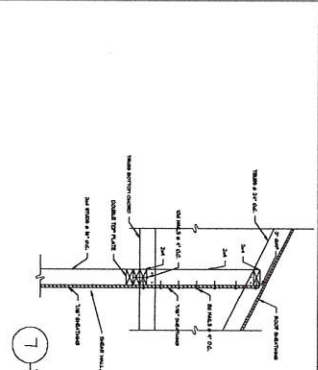
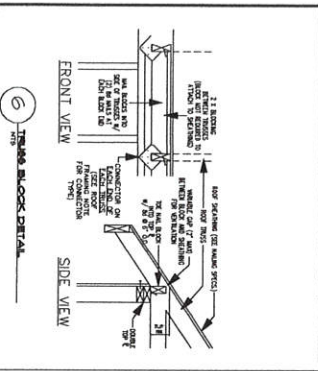
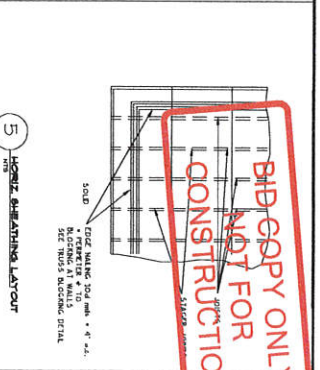
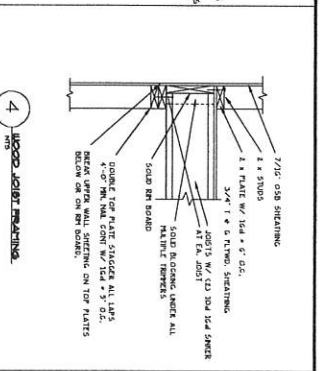
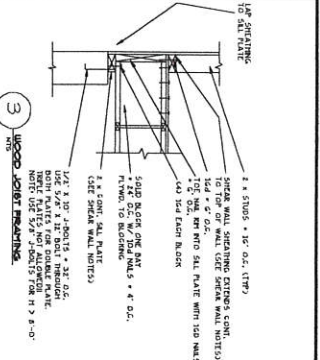
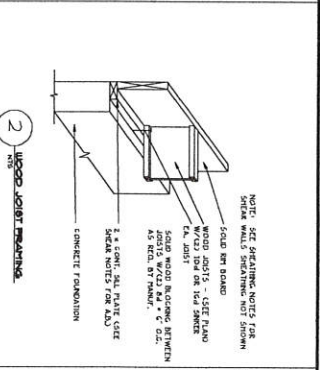
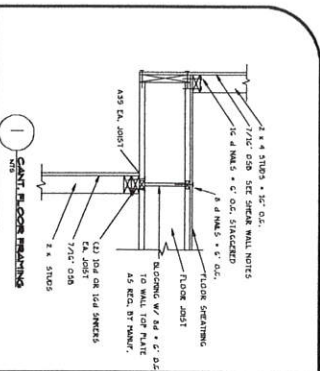
THE STUDS TO BE USED SHALL BE 2X6 OR 2X8 STUDS OR 2X6 OR 2X8 LSL'S. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED.

THE STUDS TO BE USED SHALL BE 2X6 OR 2X8 STUDS OR 2X6 OR 2X8 LSL'S. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED.

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THE STUDS TO BE USED SHALL BE 2X6 OR 2X8 STUDS OR 2X6 OR 2X8 LSL'S. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED. ALL STUDS SHALL BE 16" ON CENTER UNLESS OTHERWISE NOTED.





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ALL DETAILS MAY NOT BE APPLICABLE TO YOUR PLAN

SD2





**APPENDIX K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)**

# Weber County Stormwater Construction Activity Permit

Application submittals will be accepted by appointment only. (801) 399-8374. 2380 Washington Blvd. Suite 240, Ogden, UT 84401

Date Submitted <i>10-24-16</i>	Fees (Office Use)	Receipt Number (Office Use)	Priority Site (Office Use) <input type="radio"/> Yes <input checked="" type="radio"/> No	Permit Number (Office Use) <i>2016-123</i>
-----------------------------------	-------------------	-----------------------------	---	---

Property Owner/Authorized Representative Contact Information		Project Information	
Name of Property Owner(s)/Authorized Representative(s) <i>Kirt L. Boveero (Land to Sky Const.)</i>		Project Name <i>Lot # 11 Emerson Hills</i>	
Phone <i>801-497-1746</i>	Fax	Project Address <i>2252 E. Lauren Lane Liberty, UT. 84310</i>	
Email Address <i>landtoskyconstruction@gmail.com</i>			
Mailing Address of Property Owner(s)/Authorized Representative(s) <i>5582 So. 700 E. So. Ogden, UT. 84405</i>		Estimated Project Length (mo) <i>12 mo.</i>	Previous Permit No. (if applicable)
		Estimated Start Date <i>Nov. 1st. 2016</i>	Actual Start Date <i>ASAP</i>

### Submittal Checklist

The application shall include a Storm Water Pollution Prevention Plan which meets the criteria set forth in Section 33-3-4 of the county ordinances.

The applicant shall file the application on or before the following dates:

**Subdivision:** The date that the applicant submits the preliminary subdivision development plat application.

**Site Plan:** The date that the applicant submits a site plan application or amended site plan.

**Building Permit:** The date that the applicant submits a building permit application if the applicant proposes to construct a building on an existing lot or parcel.

**Land Use Permit:** The date that the applicant submits a land use permit application.

**Other:** At least two (2) weeks before the developer intends to perform any type of work not listed above that would require a Storm Water Construction Activity Permit pursuant to this Chapter.

Failure to acquire a required Storm Water Construction Activity Permit is grounds for tabling a related subdivision application, site plan application, conditional use permit application, or building permit application. It is unlawful to commence work (move dirt) on a development site before obtaining a required Storm Water Construction Activity Permit.

Note: A pre-construction meeting is required before performing any on-site earth work, unless waived by the county engineer.

### Applicant Narrative

Please explain your request.

### Authorization

By signing below the Owner / Representative authorizes the county to enter the property to perform inspections.

Owner or Authorized Representative Signature <i>Kirt L. Boveero</i>	Date <i>10-24-16</i>
Signature of Approval <i>[Signature]</i>	Date <i>10-24-16</i>

**APPENDIX L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)**

Inspector: \_\_\_\_\_ Date of Inspection: \_\_\_\_\_

## Weather conditions during the inspection

### Sky Conditions (Check all that apply)

Sunny & Clear  Cloudy  Raining  Rain/Snow  Snowing  Windy

### Temperature

Very Hot  Hot/Warm  Moderate  Cool  Very Cold

### Soil Conditions (Check all that apply)

Very dry  Damp  Wet  Soaking Wet (puddles & mud)

Frozen  Snow Covered

## Evaluation of Pollution Sources/Best Management Practices

Answer yes or no regarding whether the following features have been evaluated and are placed, maintained, and functioning properly. If yes, no further action is warranted. If no, list the question number in the next section (Corrective Action) and identify when and how the problem was corrected.

References to "soft surface" below means bare soil or soil with vegetative cover.

- 1 Is the SWPPP sign on site still intact and visible from a public area? (see permit part 1.10) Yes  No   
The sign must include the UPDES tracking number, the owner or general contractor name, phone number and email, and if the SWPPP is on-line, instructions on how to view it.
- 2 Is all non-storm water on the site either discharging under permit UTG070000 (or other appropriate permit) or not discharging off site? (see permit part 1.3) Yes  No   
Construction Dewatering (if discharged offsite) must be covered by UPDES Permit UTG070000 (see permit part 2.7). Further, cleaning of tools and equipment must be contained in a plastic lined pit (see permit part 2.4.5 & 2.9).
- 3 Are all wetlands, sensitive areas, or UIC wells located on or adjacent to the site sectioned off or protected? (see permit part 2.2) N/A  Yes  No   
BMP(s):  Vegetative Buffers  Berms  Wattles  
 Boundary Fence  Silt Fence  
 Other: Click here to enter text.
- 4 If there are stockpiles on the site are they placed on a soft surface away from storm water inlets and hard surfaces and protected with perimeter controls? N/A  Yes  No   
Note: Select "Contained by other BMP" if another BMP on your site will contain runoff from the stockpiles CANNOT be placed in the street except temporarily during the day. (see permit part 2.1.1)  
BMP(s):  Silt Fence  Staked Straw Wattle  Covering  
 Other: Click here to enter text.  
 Contained by other BMP. Explain: Click here to enter text.

5 If there are surface waters located within 30 feet of your project's earth disturbances do you have 30 feet of vegetated undisturbed surface or properly placed, maintained, and effective storm water controls that act as an equivalent storm water control? (see permit part 1.10) N/A  Yes  No

Note: A 30' natural vegetative buffer MUST be used if possible. If a buffer less than 30' is used, you must demonstrate that the additional controls offer the same protection as a 30' natural vegetative buffer, and select the reason for exemption below. (see permit part 2.3.5)

BMP(s):  30' Natural Vegetative Buffer  2 Straw Wattle Barriers (Fiber Roll)  
 2 Silt Fence Barrier  
 Less than 30' Natural Vegetative Buffer. Additional Controls: Click here to enter text.

6 If your site has steep slopes (greater than 70% or 35°) are they stabilized?(see permit part 2.3.2) N/A  Yes  No

BMP(s):  Erosion Control Blanket  Minimum Disturbance  Seeding  
 Hydroseed  Mulch  Takifiers  
 Other: Click here to enter text.

7 Are perimeter and sediment controls placed, maintained, and functioning properly? (see permit part 2.1.2 & 2.3) Yes  No

BMP(s):  Silt Fence  Straw Wattles (Fiber Rolls)  Sediment Trap  
 Sediment Basin  Swales  Berms  
 Vegetative Buffer  Cut-Back-Curb  
 Other: Click here to enter text.

8 Is storm drain inlet protection placed, maintained, and effective on inlets immediately downstream? (see permit part 2.1.3) Yes  No

BMP(s):  Rock/Sand-filled Bags  Drop Inlet Bags  Inlet Wattles  
 Filter Fabric  
 Other: Click here to enter text.

9 If curb ramps are used at the site are they constructed with material that will not be washed away in storm water? N/A  Yes  No

Note: If curb ramps are used it must be done with material that will not wash away in storm water. (see permit part 2.4.2)

BMP(s):  Crushed Rock  Wood Dunnage  
 Other: Click here to enter text.

10 Is there a plan to address dust control and is it being used as necessary? Yes  No

BMP(s):  Wetting with Water  
 Other: Click here to enter text.

11 Is track out control in place, maintained, and effective on the site; or is there a policy with controls (sweeping) to prevent track out? (see permit part 2.4.1) Yes  No

BMP(s):  Track Out Pad  Cobble  Gravel  
 Rumble Strips  Wash Down Pad  Delivery Pad  
 Limited Site Access  Selective Access During Dry Weather  
 Other: Click here to enter text.

12 Is solid waste collected and secured in a container or properly disposed off-site? (see permit part 2.4.3) Yes  No

BMP(s):  Bag Lightweight Trash  Leak Proof Dumpsters  Receptacles with Lids  
 Other: Click here to enter text.

- 13 Is there non-aqueous liquid waste (oil, solvent, fuel) on site, and if so is it managed and disposed of properly? N/A  Yes  No   
 BMP(s):  Contained and Removed from the site.  Collected for Reuse  
 Other: Click here to enter text.
- 14 Have spoils (extra or left over dirt from excavating) been removed from the site or if stored are they on a soft surface away from roads or inlets and with perimeter controls? N/A  Yes  No   
 BMP(s):  Cover Erodible Material  Runoff Containment  Haul Off Policy  
 Other: Click here to enter text.
- 15 Are sanitary wastes appropriately managed at the site? (see permit part 2.4.4) Yes  No   
 BMP(s):  Portable Toilet(s) (must be staked down & 10' from curb)  
 Onsite or Adjacent Indoor Bathrooms  
 Portable Toilet Secondary Containment  
 Other: Click here to enter text.
- 16 Is there a BMP to contain concrete wash water on the site? (see permit part 2.4.5 & 2.9.1) Yes  No   
 BMP(s):  Lined Depression  Steel Dumpster  
 Regional Washout (per development)  
 Other: Click here to enter text.
- 17 Are construction materials stored on site in a way that will not affect storm water? Yes  No   
 BMP(s):  Covering Erodible or Liquid Materials  Secondary Containment  
 Strategic Storage and Staging  
 Other: Click here to enter text.
- 18 Is equipment fueling, maintenance, and washing contained on site? N/A  Yes  No   
 BMP(s):  Fueling w/Mobile Track w/Spill Kit  Offsite O+M  
 Other: Click here to enter text.
- 19 After the house is sold, how will sediment be contained on site until home owner completes landscaping? N/A  Yes  No   
 BMP(s):  Landscaping  Swales  Rock Filters  
 Perimeter Controls  Vegetated Buffer  Native Vegetative Barriers  
 Cut-Back-Curb  Leave Front-Yard Lower than Sidewalk  
 Other: Click here to enter text.

Note that any maintenance required to ensure proper BMP functioning must be done within 72 hours of becoming aware of compromised BMP.

### 3. Corrective Action

#### Corrective Action Log

Date & Time of Inspection/Random Notice of Problem	Inspection or Randomly Noticed?	BMP # and Name	Description of BMP Deficiency (or reference the inspection report)	Initial	Correction Date (MM/DD/YY)	How the BMP was Corrected	SWPPP Changed (Y/N)



**SWPPP Amendment Log**

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s)] and Title]

10 10 10



**FACT SHEET/STATEMENT OF BASIS**  
**STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY**  
**CONNECTED WITH SINGLE LOT HOUSING PROJECTS**  
**OR THE "COMMON PLAN PERMIT"**  
**UPDES PERMIT No. UTRH00000**

**BACKGROUND**

The storm water program, authorized by the Federal Clean Water Act (CWA), went into effect in October, 1992. It requires anyone doing construction activities which will disturb 5 acres or more, or smaller parcels that are part of a common development plan, to obtain a storm water permit (Utah Administrative Code [UAC] R317-8-3.9(1)(a)). Phase II of the storm water program, later implemented by the Utah Division of Water Quality (DWQ), expanded the permit requirement to include "small construction," defined as soil disturbances from construction activity affecting from one to less than 5 acres (UAC R317-8-3.9(6)(e)).

DWQ administers the Utah Pollution Discharge Elimination System (UPDES) program (CWA Section 402) under a memorandum of agreement with the EPA dated July 7, 1987. UPDES permits issued for construction storm water discharges are required to include conditions for meeting technology-based effluent limitations guidelines and, where applicable, any new source performance standard established under the CWA Section 306.

A technology-based standard is included in the USEPA Effluent Limitations Guidelines and New Source Performance Standards for Construction and Development (C&D) related storm water discharges (40 Code of Federal Regulations [CFR] 450). This standard is referred to as the C&D Rule, and its requirements include a suite of non-numeric effluent limitations that apply to all permitted construction sites. These limits include requirements for erosion and sediment controls, pollution prevention measures, soil stabilization, dewatering, prohibited discharges, and surface outlets.

**PERMIT DEVELOPMENT INFORMATION**

The development of the Storm Water Permit for Construction Activity Connected with Single Lot Housing Projects (UTRH00000) is a new permit. Its purpose is to partner with the existing Utah Construction General Permit (U-CGP) for storm water discharges in providing permit coverage for construction activity. The Common Plan Permit (CPP) streamlines existing requirements and addresses climate conditions in Utah. It was created for small home builders who construct approximately 10 or less house projects a year, and/or owner builders who generally do not have the resources and permitting expertise larger entities do. Its clarity and directness will also benefit local building authorities who are often consulted to explain stormwater requirements.



Larger residential construction ventures are not barred from applying for the coverage provided by this permit; however, taking that path would require maintaining several small area permits which could be more costly and less efficient. Likewise, small home builders are not barred from applying for coverage under the U-CGP if they are comfortable addressing compliance requirements.

#### **DISCUSSION OF UNIQUE CLIMATE ISSUES IN UTAH**

Utah is the second most arid state in the nation. DWQ has wrestled with stabilization requirements for the arid- and drought-stricken areas of the state during inspections of construction sites since the beginning of the storm water program in 1992. The general stabilization requirements given in 40 CFR 450.21(b) is not economically practicable and achievable for arid, semi-arid, and drought-stricken areas in Utah. DWQ created the CPP to address this challenging climate issue. Some of the differences observed between wetter climates and arid climates are:

1. The lack of climatic moisture causes less dense vegetative cover in arid climates. As a result, nearly all arid areas naturally have more erosion and sediment transport under normal precipitation events. The more arid the area, the more sediment transport from erosion.
2. Many streams in arid areas naturally flow heavy with sediment after storm events that produce runoff due to this less dense vegetative cover.
3. Arid areas have fewer storm events that cause runoff.
4. Moisture is a significant factor in seed germination. Regrowth of vegetation after clearing and excavating takes much longer, even years sometimes, to re-establish in arid and semi-arid areas, even when topsoil is preserved and reused, unless irrigation water is applied.
5. Topsoils in arid areas have smaller fractions of organics and biota than that found in soils in wetter climates. Only hardier plants thrive in arid areas because of the poor soil quality, reduced precipitation, and generally higher temperatures. These harsh conditions mean many indigenous plants in arid areas are not fast-growing, and those plants that are fast-growing grow in spurts during and immediately after precipitation events, then die or go dormant.
6. Stabilization factors for soil surfaces in developed areas include roads, driveways, buildings, and irrigated and designed landscaping, all of which provide a powerful stabilizing effect. In undeveloped areas, the stabilizing force for soil comes, for the most part, from the roots of natural vegetation. There are other factors like soil type, the residue of dead and dying plants on the soil surface, and the protection of branches, leaves, and aboveground vegetation that break the fall of raindrops that dislodge dirt when hitting the ground. The stabilizing force from natural vegetation in undeveloped areas is much stronger in wetter climates and is somewhat equivalent to the manmade factors influencing soil stabilization. The scarcity of vegetation or the bunching of vegetation between bare areas is more prevalent in arid areas. For this reason, undeveloped areas are more susceptible to erosion than the developed areas in arid climates.

When it rains in arid areas, more erosion happens naturally. Because there is less precipitation in arid areas, revegetation happens much more slowly and growth is slow outside of rain events. Without control measures, construction activity increases erosion in arid areas, but the increased erosion is not as significant as in wetter areas.

## ARID ADAPTATIONS TO THE PERMIT

EPA recognized the arid climate issues in its stabilization requirements in 40 CFR 450.21(b) as follows:

**"In arid, semi-arid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures shall be employed as specified by the permitting authority."**

The EPA CGP standard for final stabilization (70 percent evenly revegetated with no bare areas) is an example of the challenges arid areas face. This standard does not account for the time needed for revegetation to occur in arid areas. To address this issue, Utah's CPP requires erosion control measures be placed and left after the permit is terminated with no requirement to remove them. These control measures can be either permanent (e.g., rock check dam, geotextile lined waterway) or temporary, but if they are temporary, they must be biodegradable natural products. The objective is to slow erosion to match what occurs naturally while requiring a seed mix and species compatible with the climate and to allow a longer time frame for seed germination and plant maturation which permanently restores the natural stabilizing forces.

Other adaptations for temporary stabilization measures are also included in the permit, see the last paragraph under Part II, found in the section BRIEF DESCRIPTIONS FOR EACH PART OF THE PERMIT AND THE BASIS FOR THEIR REQUIREMENTS.

## REQUIREMENTS CONTAINED IN THE PERMIT

All control elements found in 40 CFR 450 (The Construction and Development Point Source Category) are included in the CPP. Additional controls are incorporated by best professional judgement and are referred to as best management practices (BMPs).

The CPP is designed to be protective of water quality throughout Utah. DWQ believes that if appropriate pollution controls are properly placed and maintained in locations where erosion and sediment transport is likely to occur or is occurring, this permit is protective of all areas, including impacted waters and high-quality waters.

In the NOI, the permittee must identify the waterbody and if the waterbody is high-quality or impacted. As required in the CPP, the permittee must take steps to eliminate or mitigate any pollution effects caused by the construction activity so water quality standards are not compromised. If information becomes available indicating a permitted site is causing or contributing to a violation of a water-quality standard, coverage may be re-evaluated and may result in permit revocation, and/or a requirement to obtain an individual permit or another general permit.

## DESCRIPTION OF DISCHARGE

This permit covers storm water discharges from construction activities as defined in UAC R317-8-3.9(6)(d) 10 & (e) 1. Also, under UAC R317-8-3.9(6)(e)2 any construction activity can be required to obtain a

permit by DWQ based on potential contribution to a violation of a water-quality standard or for significant contribution of pollutants to waters of the State.

Storm water discharges covered by the CPP have potential for erosion and sediment transport from areas of disturbed soil cause by construction activity (clearing, grading, and excavating for construction purposes) or by exposure to construction-related chemicals and materials.

**ANTIDegradation REQUIREMENTS**

The antidegradation requirements for this permit can be found in UAC R317-2-3.5.b.3, which states:

*“An Anti-degradation Level II review is not required where (any of the following conditions apply): ...Water quality impacts will be temporary and related only to sediment or turbidity and fish spawning will not be impaired.”* Therefore, because this permit relates to only temporary construction projects with sediment or turbidity constituents, a further antidegradation review is not required.

**BRIEF DESCRIPTIONS FOR EACH PART OF THE PERMIT AND THE BASIS FOR THEIR REQUIREMENTS**

**Part I:** Part I of the permit contains the scope of coverage under this permit, including types of projects and discharges allowed, and the mechanics of coverage, renewal, and termination of coverage. The contents of Part I define the tools that allow DWQ to identify, control, and permit construction activity.

**Part II:** Permit requirements pertaining to storm water and water quality are in Part 2 of the permit. Requirements for stockpiles of materials, perimeter controls, inlet protection, track out, and curb ramps (Parts 2.1.1, 2.1.2., 2.1.3, 2.4.1, and 2.4.2 respectively) are best management practices (BMPs) for soils and materials on a construction site and are based on best professional judgement.

The federal limitations in 40 CFR 450 required for storm water discharges related to construction activity are represented in Part II of the permit. Table 1 below outlines the federal requirements and the corresponding CPP requirements. Part IV includes portions of 40 CFR 450 that are not in Part II).

Table 1. Requirements from 40 CFR 450 and the location of their analogue in the permit.

Part Number	General Requirement Description	Location
(a)	<b>Erosion and sediment controls</b>	
(a)(1)	Control storm water volume and velocity to minimize soil erosion in order to minimize pollutant discharges.	Part 2.3.3
(a)(2)	Control storm water discharges, including both peak flowrates and total storm water volume, to minimize channel and stream-bank erosion and scour in the immediate vicinity of discharge points.	Parts 2.3.4
(a)(3)	Minimize the amount of soil exposed during construction activity.	Part 2.3.1

(a)(4)	Minimize the disturbance of steep slopes.	Part 2.3.2
(a)(5)	Minimize sediment discharges from the site.	Part 4.1.1
(a)(6)	Provide and maintain natural buffers around waters of the United States, direct storm water to vegetated areas and maximize storm water infiltration to reduce pollutant discharges, unless infeasible.	Part 2.3.5
(a)(7)	Minimize soil compaction	Part 2.5
(a)(8)	Preserve topsoil unless infeasible	Part 2.5
(b)	<b>Soil stabilization</b>	Part 2.6
(c)	<b>Dewatering</b>	Part 2.7
(d)	<b>Pollution prevention measures</b>	
(d)(1)	Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters	Part 2.8.1
(d)(2)	Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to storm water	Part 2.8.2
(d)(3)	Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak-prevention and response procedures	Part 2.8.3
(e)	<b>Prohibited discharges</b>	
(e)(1)	Wastewater from washout of concrete, unless managed by an appropriate control	Part 2.9.1
(e)(2)	Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials	Part 2.9.2
(e)(3)	Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance	Part 2.9.3
(e)(4)	Soaps or solvents used in vehicle and equipment washing	Part 2.9.4
(f)	<b>Surface outlets</b>	Part 4.1.2

Other permit requirements, some that build on the requirements in 40 CFR 450 are:

1. Protection of critical and sensitive areas (Part 2.2);
2. Management of waste and debris (Part 2.4.3);
3. Securing of portable sanitary devices (Part 2.4.4), and

4. Washout procedures for paint, concrete, stucco, and etc. with management of oil-based paint cleanout (Part 2.4.5).

The list of four items immediately above are based on best professional judgement and are common construction site pollution control BMPs found in storm water permits nationwide.

Due to climate reasons stated previously, soil-stabilization requirements for arid and semi-arid areas are modified in the CPP as follows:

- Stabilization on visually flat areas will not be required.
- Stabilization for mild slopes (up to 20 percent) will not be required, but velocity dissipation devices shall be placed across all storm water drainages at a frequency that removes the energy that causes erosion.
- Non-vegetative stabilization is required on all slopes over 20 percent unless irrigation is available and vegetative stabilization can be implemented. The intent is to increase the robust nature of stabilization with increasingly steeper slopes.
- Permanent stabilization requires seeding on all areas that are not covered with structural elements such as building or paving, or that are engineered or intended for structural purposes like graveled parking or dirt roads. The revegetation process implemented must mimic the natural revegetation process for germination and growth of seeds during the infrequent storm events.
- Disturbed areas on projects outside of populated areas where no irrigation is available shall be reclaimed with a seed mix of plants indigenous to the area. No invasive species are allowed.

**Part III:** Part III contains requirements (based on best professional judgement) concerning inspection reports. Only the essential elements that are 1) necessary for effective oversight of permit compliance, and 2) that are necessary for good maintenance of the SWPPP by the permittee are included in this section. A weekly inspection report is required to be completed by the permittee. An inspection report form will be made available on the DWQ web site at:

<http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm>.

**Part IV:** Part IV requires the development of a storm water pollution prevention plan (SWPPP). The permit continues the concept of the SWPPP as a living document used as a planning tool, as a metric to measure BMP effectiveness, and to address storm water quality concerns as construction progresses for the builder. For the regulator it provides the ability to measure performance and compliance. A SWPPP is a staple of storm water permits nationwide. They have been required from the beginning of the construction storm water program and are valuable for management of storm water in the same way that charts and specifications are for the erection of structural elements of a project. The SWPPP requirements in the CPP are streamlined compared to the U-CGP.

**Part V:** Part V contains the standard conditions for all UPDES permits issued by DWQ for the State of Utah. The requirements in Part V are found in UAC R317-8.

**Part VI: Definitions.**

**PERMIT DURATION**

This permit is scheduled to be effective for a duration of five (5) years from date of permit issuance. This permit and fact sheet has been drafted by Harry Campbell, P.E., CPESC, Division of Water Quality, November 19, 2015.

**PUBLIC NOTICE INFORMATION**

First Public Notice Period

Began: February 27, 2015

Ended: March 26, 2015

Second Public Notice Period

Began: May 26, 2015

Ended: June 26, 2015

Third Public Notice Period

Began: November 27, 2015

Ended: December 28, 2016

Public Notice Publication: Deseret News/Salt Lake Tribune

Comments Received: Comments received during the three public notice periods have each been formally responded to and sent to each of the commenters at the time of this permit issuance.