(This SWPPP Template is for the **Common Plan** Permit Only, and

does **NOT** address SWPPP requirements found in the CGP.)

Common Plan SWPPP for

Judy Olsen

2449 Water Canyon

Huntsville Utah

Judy/ Bell Built Homes

2449 Water Canyon

Huntsville Utah

Bell Built Homes

4655 S 1900 W

Roy Utah

Date

5/16/2017

1. Project Information

Project Name: Judy Olsen
Address:2449 Water Canyon
City: Huntsville **State:**UT **Zip:**84317
Latitude:41.3024261
Longitude:-111.6219977
UPDES Permit Tracking Number:380487

Owner: Judy Olsen
Contact Person: Cliff Bell
Address:4655 S 1900 W
City: Roy **State:**ut **Zip:**84067
Telephone Number:8014581685
Email Address:cliffbell@readytek.net

General Contractor: Bell Built Homes
Contact Person: Cliff Bell
Address:4655 S 1900 W
City: Roy **State:**ut **Zip:**84067
Telephone Number:8014581685
Email Address: Contact Person Email

1.5

Unknown Features(although this may be a law under another program, it's not a permit requirement).Discovery of Historical, Archaeological or Paleontological Objects, Features, Sites, or Human Remains

A. Immediately suspend construction operations in the vicinity(100 foot minimum buffer) of the discovery.
B. Verbally notify the Public Works Department and provide them the exact location.
C. Protect the discovery and provide written confirmation of the discovery to the City and State Historic Departments within two calendar days.
D. Contractor and City follow State mitigation laws.

2. Best Management Practices

*{**Not all standard control categories listed below are necessary nor are they all inclusive.** It is encouraged to only include BMPs for pollution sources that are uncontrolled and apply to the site. Some BMPs may be used to control multiple categories however some categories may require multiple BMPs to control and contain the pollutant sources indicated in the category. Treat each unique BMP option independently because most BMPshave different performance and maintenance requirements. Include a copy of necessary details, instructions or contracts for the BMPs in appendix L} –[Delete blue instruction text, typical all pages -]*

2.1 SWPPP Sign(see permit part 1.10, 4.2.11)

Description of construction board is filed in Appendix L
{The construction board shall include but not limited to; NOI, Local permits and SWPPP contacts and shall be in view of the public.}
{See permit part 1.10, 4.2.11 for specific requirements}

2.2Sensitive Features Control(see permit part 2.2)

{Including but not limited to the standard features below, and wells, UIC's, irrigations ditches, diversion gates, unique vegetation features...}

{Add unique site features as needed}

2.2.x Wetlands

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Add BMPs as Needed}

2.2.xWater Bodies within or 30' from Disturbance Boundary(see permit part 2.3.5)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Refer to the regulation part 2.3.5 for specific requirements}

{Add BMPs as Needed}

2.3Sediment Control(see permit part 2.1.2, 2.1.3 & 2.3)

{Including but not limited to the standard controls below}

{Add unique operations or site conditions needing control as needed}

2.3.xTrap/Filter Sediment at Property Boundary(see permit part 2.1.2)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Generally boundary BMPs are necessary on all sites whether the boundary is controlled by topography, existing vegetation and improvements, or BMPs installed on the site.

Design controls to contain pollutants in the project legal/permit boundary during a significant precipitation or wind storm event. *Generally these BMPs are installed at property lines and roadway boundaries. Including but not limited to: swales, berms, waddles, vegetative barriers, silt fence, swale in park-strip and behind sidewalk ("cut-back-curb").*

{Add BMPs as Needed}

2.4.x Inlet Protection(see permit part 2.1.3& 2.3)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Inlet protection is secondary containment usually intended to compensate for the limitations of other BMPs intended to keep sediment off roads, or permitted construction envelope.

Design controls to prevent pollutants from affecting the public and environment that breach the Primary Boundary Controls. BMP shall be designed to prevent flooding in large storm events. *These are usually intended to be secondary and a redundant control measure. Including but not limited to: drop inlet bags, inlet waddles, filter fabric, gutter dams*

{Add BMPs as Needed}

2.4.x Steep Slopes (see permit part 2.3.2)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Control the high potential for erosion on steep slopes within the area of influence including beyond the property boundary; see BMP templates in Appendix L}

{Refer to the regulation for specific requirements}

{Repeat as Needed}

2.4.x Street Maintenance(see permit part 3.2.2)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Sediment removal BMPs should not be expected to be used in place of an inadequate track out BMPs. It is intended to compensate for limitations of good track out BMPs that are employed to the maximum extent practicable. An appropriate track out BMP will minimize the frequency that this BMP will need to be employed.

Design controls to be in place or ready to mobilize for cleanup or otherwise contain construction materials that breach the other BMPs. *Including but not limited to: manual sweeping policy(broom and shovel), removal by mechanical sweeping (washing dirt and sediment with water into a storm drain is a violation of this permit)*

{Add BMPs as Needed}

2.4Top Soil Preservation(see permit part 2.5)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Reuse and or blend topsoil; see BMP templates in Appendix L }

{Add BMPs as Needed}

2.5 Dust Control(see permit part)

{Including but not limited to the standard controls below}

2.5.x

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally, dust prevention is necessary for projects with cleared vegetation, and involves excavation and grading.

Design controls to effectively suppress dust during construction activities and at end of the work day. *Including but not limited to: State Fugitive Dust Plan Requirements, dampen with water, provide a water source, chemical stabilization, selective operation during low wind conditions*
{Add BMPs as Needed}

2.6EgressControl(see permit part2.4)

2.6.x Track Out(see permit part 2.4.1)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally track out control is necessary for projects that involve machinery moving from non durable ground to pavements. Whether BMPs are a system or policy that will prevent mud from sticking to tires or a BMP that will remove mud or require the manual removal of mud from the vehicle, it is the same. Many sites will benefit from multiple track out BMPs.

Design controls to prevent mud and dirt from being tracked out onto the streets. *Including but not limited to: track out pads, parking pads, access policies, access barriers, cobble, gravel, rubble strips, tire washes, and manual tire cleaning, selective access during dry weather conditions, any structure, system or policy that prevent track out onto the street.*
{Add BMPs as Needed}

2.7Waste Management Control(see permit part 4.2.6)

{Including but not limited to the standard features below}
{Add unique operations needing control as needed}

2.7.x Solid Waste(see permit part 2.4.3)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally, projects will need solid waste BMPs when any waste can potentially be carried off the site by flowing water, precipitation or wind.

Design controls to prevent construction trash from being be carried off the site by precipitation and wind. Also prevent liquids from spilling onto pavements while onsite and at haul off. *Including but not limited to: dumpsters, covered dumpsters, receptacle w/lids, waste policies, storing waste inside the building, bagging lightweight trash, sloping dumpsters so precipitation will drain on to property and infiltrate, fences*
{Add BMPs as Needed}

2.7.xConstruction Spoil(see permit part 2.1.1)

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally apply this BMP for project sites storing spoil where the spoil can bury BMPs, erode and reach waterways, track out during transport or blow off the site. Generally containing spoil material can be as simple as locating spoil material behind perimeter controls and controlling track out BMPs during haul off.

Design controls to prevent pollutants associated or created by material spoils storage and removal operations(typically from excavation or site clearing activities). *Including but not limited to: covering erodible materials, runoff containment, track out control for spoil removal, haul off policy, operational controls such as not spoiling material near inlets or hard-scape directly connected to drainage system, etc....*
{Add BMPs as Needed}

2.7.xSanitary Waste(see permit part 2.4.4)
Replace text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*
{Generally apply this BMP for project sites storing spoil where the spoil can bury BMPs, erode and reach waterways, track out during transport or blow off the site. Generally containing spoil material can be as simple as locating spoil material behind perimeter controls and controlling track out BMPs during haul off.
Design controls to prevent pollutants associated or created by material spoils storage and removal operations(typically from excavation or site clearing activities). *Including but not limited to: covering erodible materials, runoff containment, track out control for spoil removal, haul off policy, operational controls such as not spoiling material near inlets or hard-scape directly connected to drainage system, etc....*
{Add BMPs as Needed}

2.7.xCement ProductOperations(see permit part 2.4.5, 2.9.2)
Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*
{Generally, apply cement waste control for projects requiring concrete supply trucks, concrete truck chassis, pump truck hopper, mortar hopper, miscellaneous hand tools, and other large concrete operations or operations that involve high PH materials
Design BMPs to contain concrete waste, and other related waste, on the site from runoff and leaching. *Including but not limited to: onsite depression, lined depressions, steel bins, waste disposal policies, signage directing supplies where to dump, directions for washing concrete truck chassis*
{Add BMPs as Needed}

2.7.xConcrete Cutting Operations(see permit part 2.9.2)
Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*
{Generally, concrete cutting operations BMPs are necessary where the coolant waste and cutting dust can reach waterways or affect adjacent properties.
Design BMPs to prevent pollutants from entering storm drain inlets. *Contain cutting coolant and removal of dry cuttings prior wet or windy conditions. Including but not limited to: temporary dams, cleanup procedures, filters(BMPs that allow a discharge must be accompanied by a wastewater discharge permit, UTG070000), etc*
{Add BMPs as Needed}

2.7.xNon Aqueous Waste(see permit part 2.8.2)

Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*
{Generally, this applies to projects generating liquid construction waste material such as but not limited to paint, solvents, stucco, dyes, etc.
Design BMPs to contain concrete waste, and other related waste, on the site from runoff and leaching. *Including but not limited to: onsite depression, lined depressions, steel bins, waste disposal policies, signage directing supplies where to dump*
{Add BMPs as Needed}

2.7.x Construction Wastewater*(see permit part 2.7, 2.9, 2.9.4)*
Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*
{Generally apply this BMP for project sites that anticipate high water table or when stormwater or other water sources will need to be discharged or pumped away from a construction zone.
Design controls to prevent the disposal of polluted construction wastewater that encumbers the site. *Including but not limited to: file required state permit for disposal, filter discharges, discharge onsite in containment/retention area. Any direct discharges requires State Permit UTG070000 be attached in appendix.{Add BMPs as Needed}*

2.8 Management of Construction Materials Control

{Including but not limited to the standard features below}
{Add unique site operations needing control as needed}

2.8.x Storage of Construction Materials*(see permit part 2.8.2)*
Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*
{Generally apply this BMP for project sites that involve the delivery and storage of materials that if are exposed to the weather can cause harm to the soil or pass through boundary controls Usually these are exposed liquids or chemicals that can be cause harm if exposed or spilled.
Design controls to prevent pollutants associated with storage materials. *Including but not limited to: covering erodible or liquid materials, secondary containment, storing where pavement is not directly connected to waterways. Locate where track out will be minimized when using or the delivery of these construction materials.*
{Add BMPs as Needed}

2.8.x Construction Staging(backfill)*(see permit part 2.1.1)*
Replace this text with the BMP name or explain why it DOES NOT APPLY.
BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally apply this BMP for project sites involving staging operations of erodible materials where the materials themselves can erode by wind or water and reach waterways or where track out from the operation can be an issue. It could be necessary to include BMPs for multiple construction operations including but not limited to: plumbing utilities, utility companies, grading, etc.

Design controls prevent pollutants associated or created by material staging operations.

Including but not limited to: Covering or surrounding backfill, operational(remove backfill from pavements prior to wet conditions or before end of day whichever comes first), strategic staging locations that will prevent material from reaching waterways, provide staging area near track out BMPs, locate staging area behind perimeter BMPs, etc.

{Add BMPs as Needed}

2.8.x Construction Staging(Landscaping)*(see permit part 2.1.1)*

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when aseparate detailed BMP document is not necessary}*

{Generally apply this BMP for project sites involving staging operations of erodible materials where the materials themselves can erode by wind or water and reach waterways or where track out from the operation can be an issue. It could be necessary to include BMPs for multiple construction operations

Design controls prevent pollutants associated or created by material staging operations.

Including but not limited to: Covering or surrounding backfill, operational(remove backfill from pavements prior to wet conditions or before end of day whichever comes first), strategic staging locations that will prevent material from reaching waterways, provide staging area near track out BMPs, locate staging area behind perimeter BMPs, etc.

{Add BMPs as Needed}

2.9Final Stabilization*(see permit part 2.6)*

{Including but not limited to the standard features below}

2.9.x Landscaping Plan

Replace this text with reference to the landscape plan in appendix B or explain why it DOES NOT APPLY

{stabilize the disturbed ground; Put final landscaping plan in Appendix B}

{Final Landscaping features when landscaped by the Operator}

{Refer to the regulation for specific requirements}

{Add BMPs as Needed}

2.9.x Temporary Containment of Sediment

Replace this text with the BMP name or explain why it DOES NOT APPLY.

BMP description, rational for use and specifications, and details are filed in Appendix L. *{Delete this sentence when a BMP is not necessary or replace it with a BMP description when a separate detailed BMP document is not necessary}*

{Generally projects that include mature landscaping improvements will satisfy this requirement by those improvements themselves, however projects not including complete mature landscaping improvements will need temporary BMPs to contain erosion until 70% is achieved.

These controls must contain sediments and other pollutants until the new property is stabilized. This BMP is for after the project is completed but before the site has 70% vegetative cover. *These controls must be such that if left unmaintained will not become the source of pollutants. Including but not limited to: landscaping (installation of vegetation), swales, leave front-yard lower than sidewalk, rock filters, native vegetative barriers...*

{Add BMPs as Needed}

3. Spill Prevention and Response Plan(see permit part 2.8.3, 2.9.3)

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 **BLUE** fields below. {The primary purpose of spill control is to contain spills before causing damage and secondary the proper clean up and disposal.

Spill controls must contain spills, and be mobilized at the moment of need. The plan must include the materials and method of containment and for flowing liquid, cleanup and disposal and follow the minimum spill controls below. *Including but not limited to: existing company spill policy, standard operation procedures, onsite containment BMPs, containment materials/spill kit, absorbent products, dirt, sand, absorbent/oil dry, sealable containers, plastic bags, shovels and brooms etc.*

Description of Spill control Plan, details and policy are filed in Appendix L.

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 within14 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
Weber Fire Department	(801)745-9277 or (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	1 lb
Antifreeze, battery acid, gasoline,engine degreasers	Air, Land, Water	100 lbs (13 gallons)

Emphasis to:

1st Priority: Protect all people (including onsite staff)
2nd Priority: Protect equipment and property
3rd 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 Municipal Storm Water 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 FLUSH AREA WITH WATER.
7. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.
8. Report the reportable quantity to the Weber Morgan Health Department.

Emergency Numbers

Utah Hazmat Response Officer 24 hrs	(801)-538-3745
Weber County Sheriff Department	(801)-778-6600)
Weber County Engineering Division	(801)-399-8374

4. Site Map(s) *(see permit part 4.2.3)*

The SWPPP site maps are filed in Appendix B

{Maps shall include all structural BMPs, and all site components necessary to demonstrate pollution containment. Multiple SWPPP site map sheets may be necessary to clearly show how and when BMPs are to be employed relative to the construction phases}

The SWPPP site maps shall include but not limited to:

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*

{Refer to the regulation for specific requirements}

5. Record Keeping

See the appendices in Appendix A-K.

{In the Appendix there are report and log forms for all the necessary recordkeeping. The record keeping is literally demonstrating to the EPA, DWQ and MS4 that the site in incompliance. A compliant site requires effective and maintained BMP andaccurate SWPPP documentation.

SWPPP Inspections-Maintenance-Correction Report(permit part 3.2.1, 3.2.2,3.3,3.4, 4.2.12)

Inspectionsare required every 7 calendar days

Repair or replace BMPs prior to need or by end of week whichever comes first. Update the Inspection-Maintenance-Correction Report weekly.

Section 3.2.2 requires daily maintenance of pavements and site grounds.

See the Inspection-Maintenance-Correction Reports in Appendix E

{There is an Inspection-Maintenance-Correction Report template provided in EXHIBIT E of this SWPPP template. File all Inspection-Maintenance-Correction reports there.}

Changes to the SWPPP(see permit part 4.2.12, 4.2.13)

See the Amendment Log in Appendix F.

{There is a SWPPP Amendment log template provided in EXHIBIT F of this SWPPP template. Record SWPPP changes there.}

Training(see permit part 4.2.7)

Training Logs and Documentsare filed in Appendix H.

{Owner/Operatoris required to train all parties involved in the project, including but not limited to: company staff, sub contractors, suppliers, servicing utilities…}

6. Discharge Information

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

1. Pine View Dam

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

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
Water Body Name	☐Yes xNo	See web site above	☐Yes ☐ No	See web site above

Copy the table above and repeat where there is more than one water body.

7. Certification, Notification and Delegation(see permit part 4.2.9)

Owner Certification: See documents filed in Appendix G.

Operator Certification: See documents filed in Appendix G.Not necessary when the Owner and Operator are the same.

Delegation of Authority: insert text here If used include documents and reference their file in Appendix G.

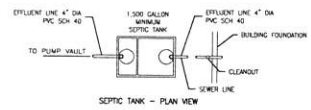
Subcontractor Certification: insert text hereIf used include documents and reference their file in Appendix G.

Notice of Permit Transfer Requirements: insert text hereIf used include documents and reference their file in Appendix G.

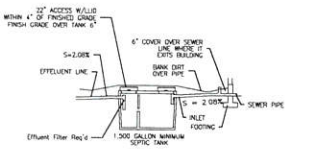
{There are forms for these actions provided in EXHIBIT G of this SWPPP template. File all certification and delegation documents there.}

mapquest

App - A



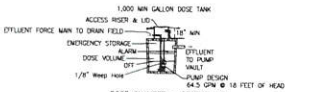
SEPTIC TANK – PLAN VIEW



SEPTIC TANK – SECTION VIEW

NOTES:

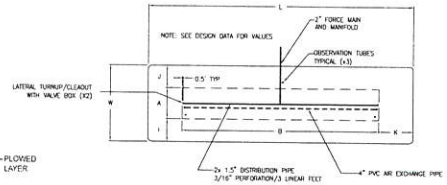
1. INSTALL APPROVED SEPTIC TANK.
2. INLETS AND OUTLETS SHALL MEET THE MATERIAL AND DIAMETER REQUIREMENTS FOR BUILDING SEWERS AND SHALL BE TEE-ED OR BAFFLED WITH THE OBJECT OF DIVERTING INCOMING FLOW TOWARD THE TANK BOTTOM AND MINIMIZING AS MUCH AS POSSIBLE THE DISTURBANCE OF SLUDGE OR SCUM IN THE EFFLUENT.
3. INLETS AND OUTLEST SHOULD BE LOCATED AT THE OPPOSITE ENDS OF THE TANK. THE INVERT OF FLOW LINE OF THE INLET SHALL BE LOCATED AT LEAST TWO INCHES (PREFERABLE THREE INCHES) ABOVE THE INVERT OF THE OUTLET TO ALLOW FOR MOMENTARY RISE IN LIQUID LEVEL DURING DISCHARGE TO THE TANK.
4. AN INLET BAFFLE OR SANITARY TEE OF WIDE SWEEP DESIGN SHALL BE PROVIDED TO DIVERT THE INCOMING SEWAGE DOWNWARD. THIS BAFFLE OR TEE IS TO PENETRATE AT LEAST SIX INCHES BELOW THE LIQUID LEVEL, BUT THE PENETRATION IS NOT TO BE GREATER THAN THAT ALLOWED FOR THE OUTLET DEVICE.
5. OUTLET BAFFLES OR SANITARY TEES SHALL EXTEND BELOW THE LIQUID SURFACE A DISTANCE OF APPROX. 40 PERCENT OF THE LIQUID DEPTH.
6. ALL INLET AND OUTLET DEVICES SHALL BE PERMANENTLY FASTENED IN A VERTICAL, RIGID POSITION. INLET AND OUTLET PIPE CONNECTIONS TO THE SEPTIC TANK SHALL BE SEALED WITH A BONDING COMPOUND THAT WILL ADHERE TO THE TANK AND PIPES TO FOR WATERTIGHT CONNECTIONS, OR WATERTIGHT SEALING RINGS.
7. ADEQUATE ACCESS TO THE TANK SHALL BE PROVIDED TO FACILITATE INSPECTION AND CLEANING.



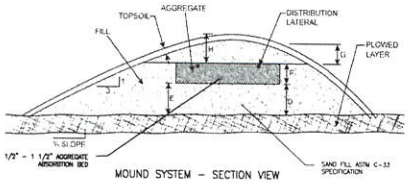
DOSE CHAMBER – SECTION VIEW

NOTES:

1. THE DOSE CHAMBER MUST BE LARGE ENOUGH TO PROVIDE A DEAD SPACE TO CONTINUALLY SUBMERSE PUMP, SYSTEM DOSE VOLUME ABOVE DEAD SPACE, AT LEAST 1 DAY'S VOLUME OF STORAGE ABOVE THE ALARM LEVEL, AND A MINIMUM OF 2 INCH DEEP VOLUME ABOVE THE STORAGE VOLUME, BEFORE OVERFLOW OCCURS BACK INTO THE SYSTEM.
2. PLACE FLOATS ON SEPARATE AND REMOVABLE SYSTEM.
3. WEBER COUNTY HEALTH DEPARTMENT REQUIRES CONTROL FLOATS TO OPERATE BY TIME DOSING. SET CONTROLS TO PUMP 5 TIMES PER DAY AT A 4 HOUR 48 MINUTE INTERVAL OR AS NECESSARY FOR EVEN DISTRIBUTION THROUGHOUT THE DAY. (SEE DATA SHEET FOR DOSING VOLUME.) THE CONTROL PANEL SHALL HAVE AN EVENT COUNTER AND A RUN TIME METER.
4. CONTRACTOR TO BUILD PUMP CONTROLS PER STATE RULE R317-4 APPENDIX B, PRESSURE, DISTRIBUTION, PUMPS, CONTROLS, AND ALARMS.



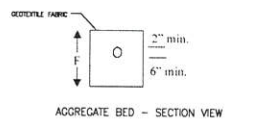
MOUND SYSTEM – PLAN VIEW



MOUND SYSTEM – SECTION VIEW

NOTES

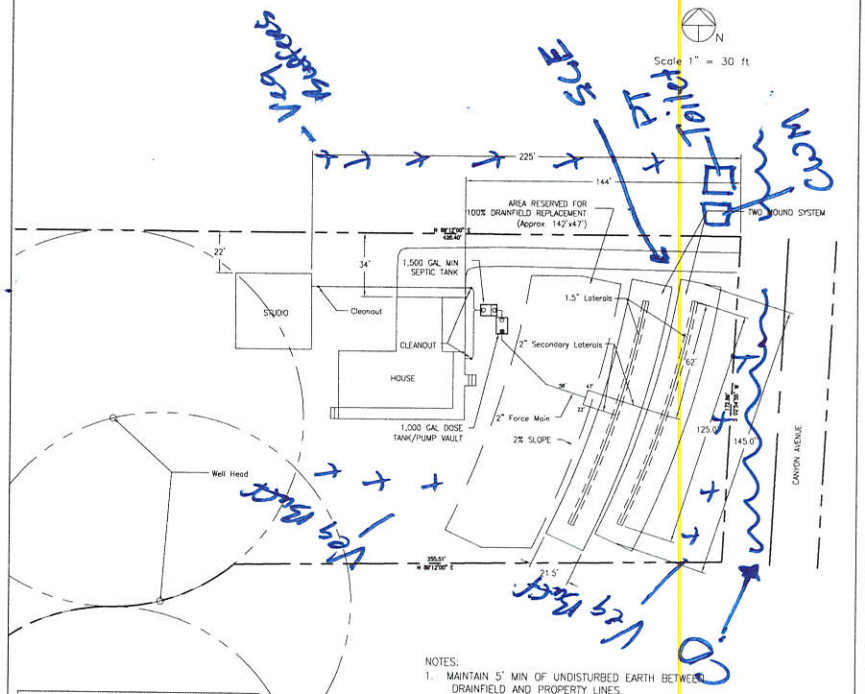
1. SITE SHALL BE CLEARED OF VEGETATION AND SCARIFIED.
2. ABSORPTION BED AGGREGATE SHALL CONSIST OF 2" - 2" CLEAN, NON-DETERIORATING, NON-CRUSHED, NON-ANGULAR STONE WITH NO MORE THAN 0.5% PASSING A 200 SIEVE.
3. ABSORPTION BED AGGREGATE SHALL BE PLACED SO THAT 6" OF STONE IS BELOW DISTRIBUTION LATERAL AND 2" OF STONE IS ABOVE DISTRIBUTION LATERAL.
4. SAND FILL MATERIAL SHALL MEET ASTM C-33 SPECIFICATION.
5. THE ENDS OF THE LATERALS SHALL HAVE "TURN-UPS" TO THE SURFACE OF THE MOUND TO ALLOW FOR INSPECTION MONITORING. THE CAP ENDS, SHOULD ALLOW FOR EASY REMOVAL AND SHOULD BE ENCASED IN AN ADEQUATELY SIZED LANDSCAPE BOX.
6. OBSERVATION TUBES (4" PVC) SHALL BE PLACED AT ⅛, ½ AND ⅞ POINTS ALONG THE ABSORPTION AREA WITH THE BOTTOM FOOT PERFORATED AND WITH GRAVEL OR GEOTEXTILE AROUND PERFORATIONS. AT LEAST ONE SHALL BE IN THE DOWNSLOPE PORTION OF THE MOUND WITH THE BOTTOM AT THE ORIGINAL GROUND SURFACE AND THE TOP EXTENDING ABOVE FINAL GRADE WHERE IT CAN BE CAPPED. ANOTHER SHALL BE LOCATED IN THE ABSORPTION BED EXTENDING FROM THE BOTTOM OF THE BED (AGGREGATE) TO ABOVE THE FINAL GRADED WHERE IT CAN BE CAPPED. THE ENDS OF THE TUBES SHOULD BE PLACED IN AN ADEQUATELY SIZED LANDSCAPE BOX.



AGGREGATE BED – SECTION VIEW

Design Data		
Absorption Bed		
Bedrooms	5	Bdms
Septic Tank Rqd*	1500	Gallons
Perc Rate	N/A	MPI
Daily Wastewater Flow	750	gpd
Design Linear Loading Rate	3	gpd/ft
Soil (Basal) Hydraulic Loading Rate	0.22	gpd/sq ft
Sand Fill Loading Rate	1	gpd/sq ft
Width of Absorption Area (A)	3	ft
Length of Absorption Area (x2 mounds) (B)	125.0	ft
Upslope Fill Depth (D)	12	in
Downslope Fill Depth (E)	12.1	in
Bed Depth (F)	9.5	in
Minimum Cap Depth (G)	12	in
Total Cover (H)	18	in
Downslope Width of Absorption Area (I)	10.6	ft
Upslope Width (J)	7.9	ft
Endslope Length (K)	9.9	ft
Total Mound Length x2 (L)	144.8	ft
Total Mound Width (W)	21.5	ft
Pressure Distribution		
Orifice Diameter	3/16"	in
Minimum Squirt Height	3.5	ft
Orifice Flow Rate	0.78	gpm
Orifice Spacing	3	ft
Number of Laterals	4	ea
Lateral Length (4)	62.0	ft
Lateral Pipe Diameter	1.5	in
Perforations Per Lateral	21	ea
Discharge Rate Per Orifice	0.78	gpm
Lateral Discharge Rate	16.12	gpm
Lateral Headloss	1.53	ft
Secondary Lateral Headloss*	1.06	ft
Manifold Size	2	in
Manifold Head Loss	0.11	ft
Network (System) Discharge Rate	64.5	gpm
Force Main Diameter	2	in
Force Main Length	80	ft
Force Main Friction Loss	6.4	ft
Misc headloss (fittings)	2	ft
Elevation Head	7	ft
Total Dynamic Head	18.0	ft
System Dose Volume	37.5	Gallons
Pipe Volume (FM + Laterals)	42.8	Gallons
Total Dose Volume	80.3	Gallons
Dose Tank Emergency Storage	750	Gallons
Minimum Dose Tank Volume	830	Gallons

Note* The elevation difference between upper and lower laterals is about 6" assuming a 2% site slope. The friction loss in the 47' secondary lateral is approximately 6" greater than in the 22' lateral. Near equal distribution is estimated in both sets of laterals.



NOTES:

1. MAINTAIN 5' MIN OF UNDISTURBED EARTH BETWEEN DRAINFIELD AND PROPERTY LINES.
2. MAINTAIN 5' MIN OF UNDISTURBED EARTH BETWEEN SEPTIC TANK AND BUILDING FOUNDATION OR DRAINFIELD.
3. MAINTAIN 100' SEPARATION BETWEEN TRENCH AND ANY WELL HEAD, STREAM, OR DITCH.
4. MOUNDS SYSTEMS SHALL BE INSTALLED BY A CERTIFIED INSTALLER. NOTIFY WEBER MORGAN HEALTH DEPARTMENT FIVE WORKING DAYS PRIOR TO CONSTRUCTING MOUND.

River Logic llc
351 N Elkridge Trail
Eden, UT 84310
(801) 745-3565
Civil Designs

REV	BY	DATE	DESCRIPTION

Lots 1, 2, 3 Certified 5/9/02

Applicant
Judy Olson
2421 N Canyon Avenue
Huntsville

Project
Evergreen Sub. Lot 707
Weber County, Utah

Date 7-29-16
Scale 1" = 30'
Drawn: LV
Checked LV

SHEET 1 OF: 1

WEEKLY INSPECTION- MAINTENANCE-CORRECTION REPORT (permit part 3.2.1, 3.2.2, 3.3, 3.4)
INSPECTION PERIOD:
INSPECTOR:

SITE NAME:
RAIN EVENTS:
CURRENT WEATHER:

BMP	INSPECTION DATE	OK/NOT OK?	BMP CONDITION	CORRECTION DATE	CORRECTION ACTIONS TAKEN
Are all pollution sources controlled? Do any other problems exist?					
List all SWPPP BMPs					

*DAILY MAINTENANCE- Section 3.2.2 requires daily removal of dirt from pavements and the removal of loose light weight trash. This is separate from maintenance and correction requirements resulting from the weekly inspections. It is encouraged but not required to include other regular maintenance actions demonstrating the site is regularly maintained. This may help avoid additional maintenance requirements from the City inspector.

BMP OR SITE FEATURE MAINTAINED DURING THE REPORT WEEK	DAY / DATE	BMP CONDITION \ SITE CONDITION	MAINTENANCE PERFORMED

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: Title:

Signature: Date:

SWPPP AMENDMENT LOG			
Amendment #	**Description of the Amendment**	**Date of Amendment**	**Notes**

OPERATOR 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.

Name: Cliff Bell Title: Owner

Signature: Date: 5-16-2017

Company: Bell Built Homes

Project: Judy Olson

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

_____

_____

Signature: _____

Title: _____

Date: _____

Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in _____ (Reference State Permit), and that the designee above meets the definition of a "duly authorized representative" as set forth in _____ (Reference State Permit).

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: _____

Company: _____

Title: _____

Signature: _____

Date: _____

Notice of Permit Transfer Requirements

Upon transfer of ownership or control of the subject property under this Permit (see section 8.2.2.a.) coverage under the UPDES CGP must continue until stabilization requirements are satisfied according to permit requirements. This requirement may be met by either of the following transfer options:

1. Obtaining coverage under a new and independent Notice of Intent (NOI – the application process to procure coverage under the UPDES CGP). This results in a new permit coverage number.
2. Coordinating with the previous owners and the State of Utah, Department of Environmental Quality, Division of Water Quality where ownership, other information, and signatures (including electronic certifications) contained in the NOI that is current for the property is changed to reflect the change in ownership and responsible parties for conducting construction activities (general contractor). For this step you would assume the responsibilities of the original CGP coverage. This continues the original permit coverage number.

Name of Previous Owner _____ Telephone Number _____

Address of Previous Owner _____ City _____ State _____ Zip _____

Signature of Previous Owner _____ Date _____

Name of New Owner _____ Telephone Number _____

Address of New Owner _____ City _____ State _____ Zip _____

Signature of New Owner _____ Date _____

PROJECT NAME AND LOCATION

Previous Permit Number _____ Name of Project _____

Address of Project City State Zip

Longitude Latitude

WHAT KIND OF TRANSFER: PARTIAL OR TOTAL?

Is this a transfer of ownership of partial or total of the permitted area? Partial □
Total □

If this is a transfer of part of the permitted area to a new owner, describe what part:

Will there be a new SWPPP prepared? YES □ NO □

Please update the General Contractor Information (see transfer options 1 or 2, first page). If this is a partial transfer the only option is 1.

This form must be submitted to the Municipality of Jurisdiction and DWQ

To submit to DWQ either email to the construction storm water coordinator or,
FAX to 801-535-4301
Or mail to DWQ
PO Box 144870

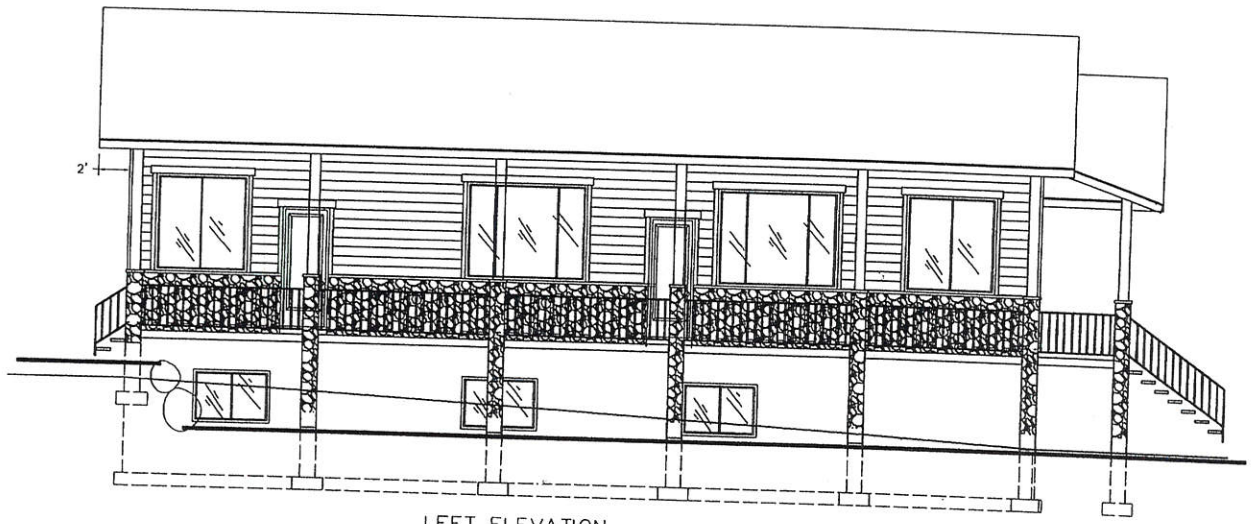
Training Log				
Training Date	Name and Title of Trainer	Name of person(s) and Company(s) Trained	BMP(s) Pertaining	Description of training material e.g. instruction, direction, etc. Attach all support documents in Appendix J. Including but not limited to: certifications, contracts, videos, literature, meeting minutes, memos, letters, emails, phone logs...

APPENDIX I: Construction Plans

Home Plan

25 YR ARCHITECT
ASPHALT SHINGLE ROOF

FRONT ELEVATION
SCALE 1/4"= 1' 0"



LEFT ELEVATION
SCALE 1/4"= 1' 0"

PLAN #
R-1800-15

York Engineering INC
Structural Design And Analysis
2329 W. Spring Hollow Rd.
Morgan, Utah 84050
(801)876-3501

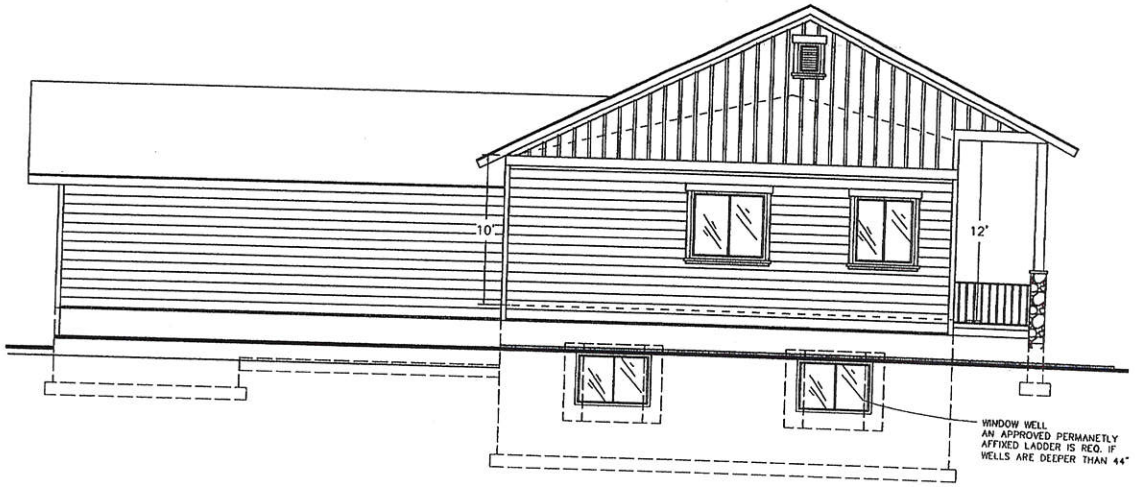
JUDITH OLSEN
RESIDENCE
2421 Water Canyon Ave

MAFI DESIGNS
Designer: Shana Mari
2143 N. Morgan Vly Dr.
Morgan Ut 84050
(801) 829-3545

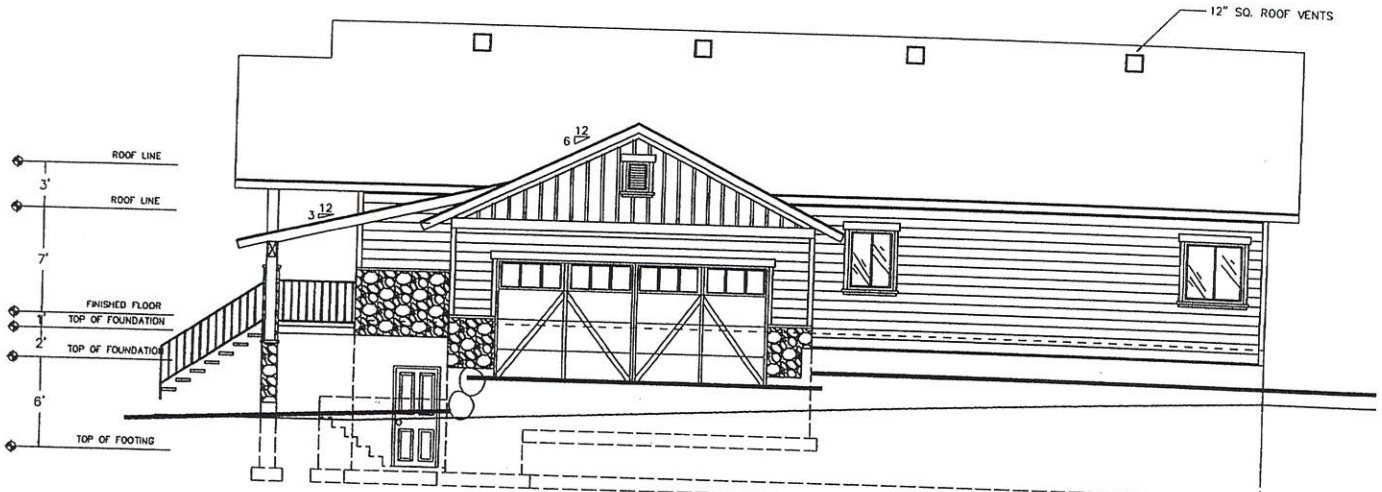
1/7

DEFFERED SUBMITTAL

TRUSS DETAILS AND
LAYOUT FOR
FRAMING INSPECTION



BACK ELEVATION
SCALE 1/4"= 1' 0"



RIGHT ELEVATION
SCALE 1/4"= 1' 0"

PLAN #
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JUDITH OLSEN
RESIDENCE
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MAFI DESIGNS
Designer: Shana Mafi
2143 E. Morgan Vly Dr.
Morgan UT 84050
(801) 829-3845

SHEAR WALL NOTES

ALL EXTERIOR WALLS AND VERTICAL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED WITH 15/32" APA RATED 24/0 OR BETTER STRUCTURAL WOOD PANELS.
BLOCK ALL HORIZ EDGES WITH 2" NOM. OR WIDER. 2" OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED WHERE 10d NAILS ARE SPACED 3" O.C. OR LESS. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR TO TO TOP PLATE FRAMING ON UPPER EXT. WALLS. NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. EXTEND SHEATHING OVER RIM AND NAIL TO RIM AND WALL PLATES 4" O.C.

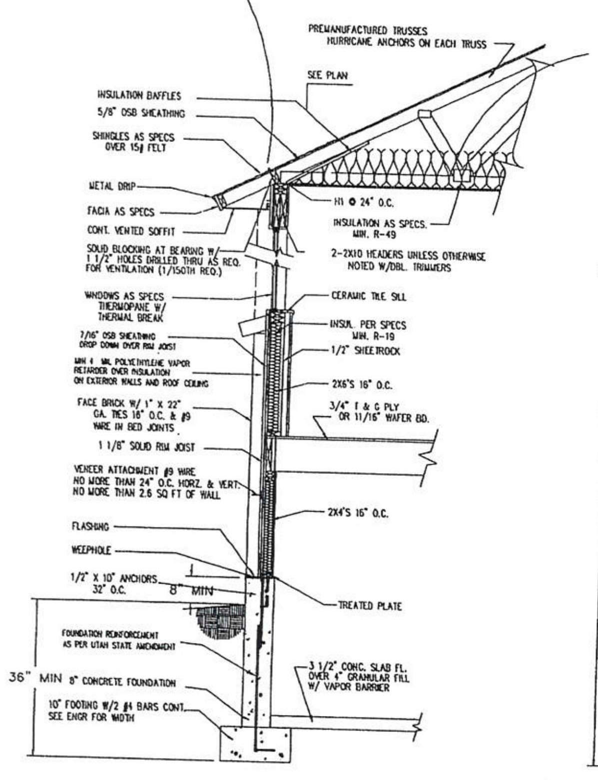
SHEAR WALL SCHEDULE

TYPE	SHEATHING	NAILING NAIL	NAILING EDGE	NAILING FIELD	ANCHOR BOLTS
TYPICAL	7/16" ONE SIDE	8d	6" O.C.	12" O.C.	1/2" 32" O.C.
SW-1	7/16" ONE SIDE	8d	4" O.C.	12" O.C.	1/2" 32" O.C.
SW-2	7/16" BOTH SIDES	8d	4" O.C.	12" O.C.	1/2" 32" O.C.
SW-3	7/16" ONE SIDE	8d	3" O.C.	12" O.C.	1/2" 32" O.C.
SW-4	7/16" BOTH SIDES	8d	3" O.C.	12" O.C.	1/2" 32" O.C.

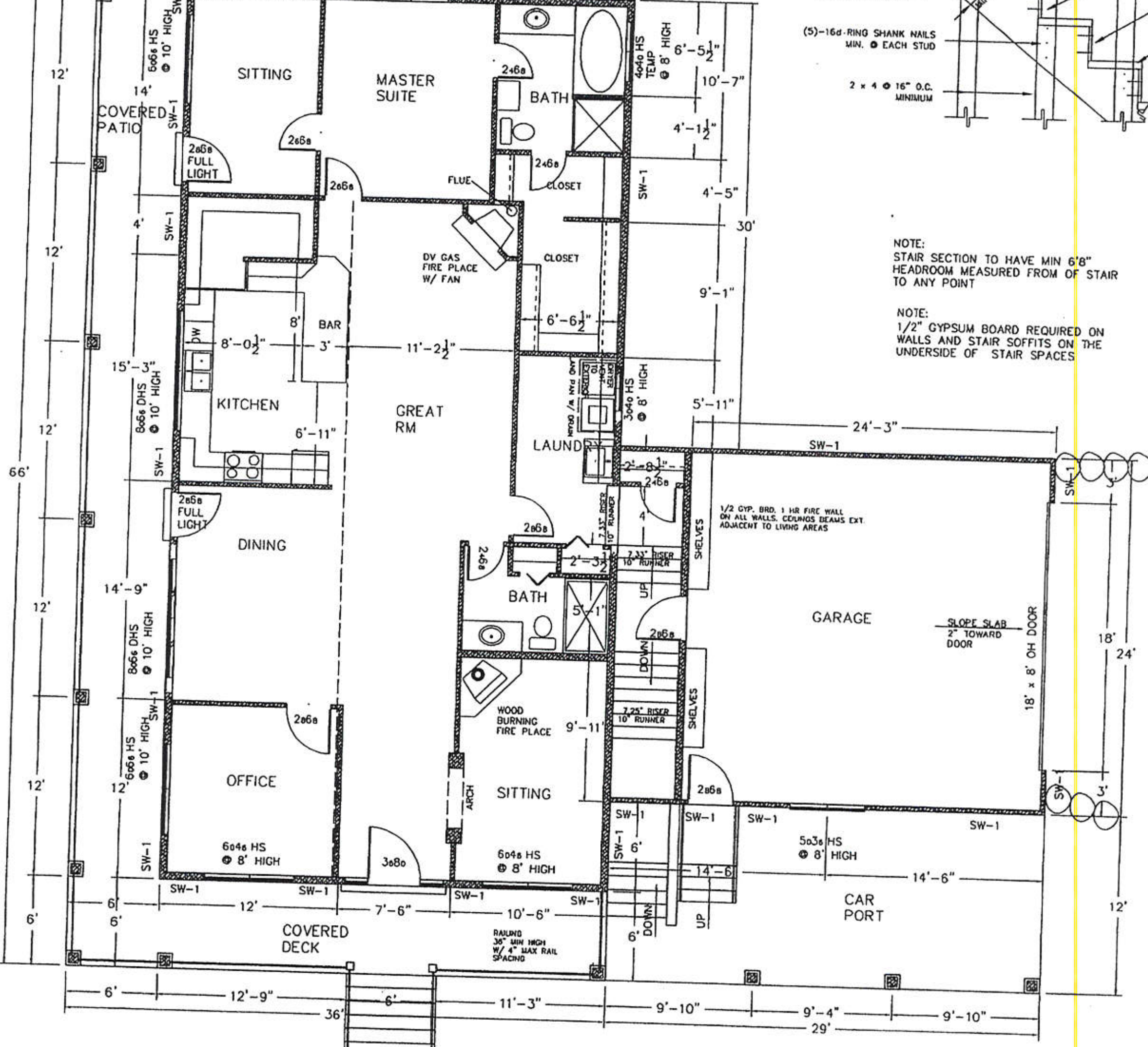
NOTE: 18 GAUGE STAPLES MAY BE SUBSTITUTED FOR 8d NAILS AT 1/2 SPACING ON SW-1 AND SW-2

NOTE
DOORS MUST HAVE A LEVEL LANDING ON INTERIOR AND A MAX OF ONE STEP DOWN 7 3/4" TO A LANDING ON EXTERIOR. THRESH TO BE MAX 1 1/2" HIGH

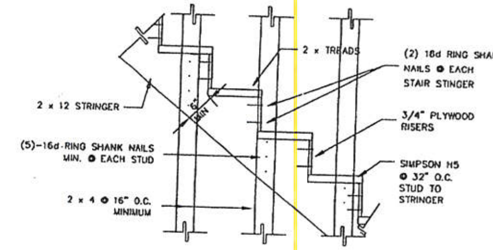
An ice barrier that consists of at least two layers of underlayment cemented togeather or of a self-adhering polymer modified bitumen sheet, shall be used in lieu of normal underlayment and extend from the eave's edge to a point at least 24 inches inside the exterior wall line of the building.



TYP. WALL SECTION
NO SCALE



MAIN FLOOR PLAN
SCALE 1/4"= 1' 0" AREA= 1800 FT^2
GARAGE AREA= 696 FT^2



NOTE:
STAIR SECTION TO HAVE MIN 6'8" HEADROOM MEASURED FROM OF STAIR TO ANY POINT

NOTE:
1/2" GYPSUM BOARD REQUIRED ON WALLS AND STAIR SOFFITS ON THE UNDERSIDE OF STAIR SPACES

PLAN #
R-1800-15

York Engineering INC
Structural Design And Analysis
2329 W. Spring Hollow Rd.
Morgan, Utah 84050
(801)876-3501

GENERAL CONTRACTOR IS LIABLE TO VERIFY ALL DIMENSIONS, NOTES, AND ACCURACY OF PLAN, BEFORE CONSTRUCTION BEGINS. ALL WRITTEN DIMENSIONS AND NOTES TAKES PRECEDENCE OVER PRINTED DIMENSIONS AND NOTES. REDLINES SHALL BE APPROVED BY AN ENGINEER OR ARCHITECT. MAFI DESIGNS, HOLDS NO RESPONSIBILITY TO ANY CHANGES MADE BY ANYONE OTHER THAN MAFI DESIGNS.

JUDITH OLSEN
RESIDENCE
2421 Water Canyon Ave

MAFI DESIGNS
Designer: Shana Mafi
2143 N. Morgan Vly Dr.
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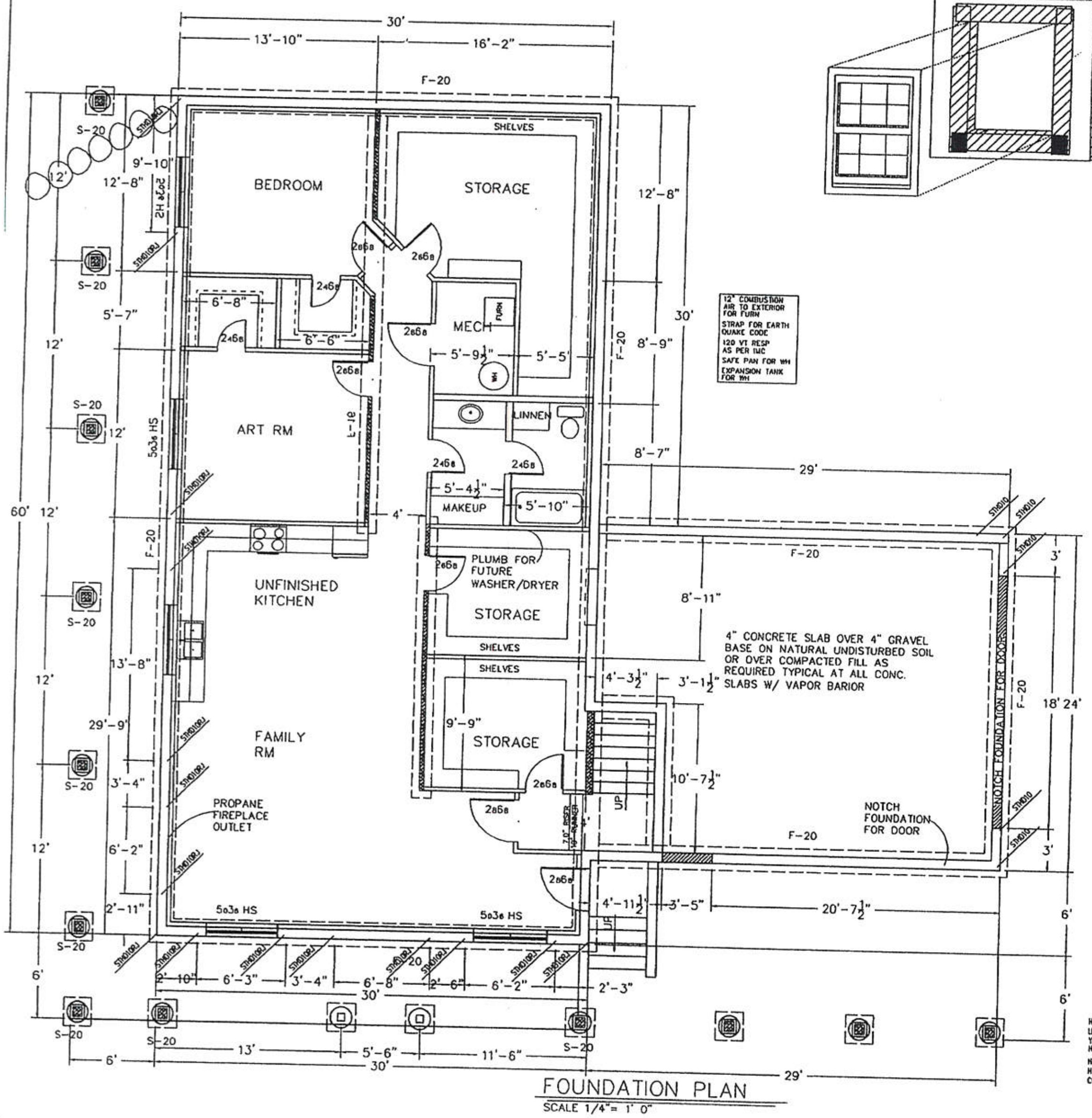
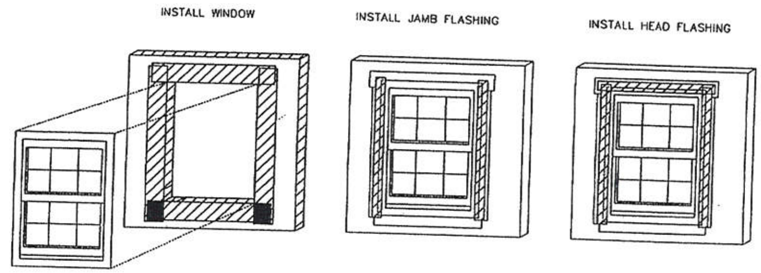
(801) 829-3345

3/7



12" COMBUSTION AIR TO EXTERIOR FOR FURN
STRAP FOR EARTH QUAKE CODE
120 VT RESP AS PER IUC
SAFE PAN FOR WH
EXPANSION TANK FOR WH



NOTES:

1. SURFACES SHALL BE CLEAN AND DRY AND PRIMED
2. FLASHINGS SHOULD BE A MINIMUM OF 6" WIDE. THE FLASHING SHALL COVER WINDOW FLANGE AND LAP ONTO SHEETING A MINIMUM OF 3"
3. SEQUENCE FLASHING INSTALLATION TO PROVIDE SHINGLED OVERLAPS.
4. OVERLAPS SHALL BE A MINIMUM OF 2".

3,000 PSI CONCRETE — FOUNDATION SCHEDULE — 60,000 PSI STEEL

MAXIMUM WALL HEIGHT FROM T.O. FOOTING	TOP EDGE SUPPORT	MIN WALL WIDTH	VERTICAL WALL REINF. SIZE	VERTICAL WALL REINF. SPACING	HORIZONTAL WALL REINF. SIZE	HORIZONTAL WALL REINF. SPACING	ADDITIONAL REINF. FOR OPENINGS ABOVE NO.	ABOVE SIZE	SIDES NO.	SIDES SIZE	BELOW NO.	BELOW SIZE	MAX LINTEL LENGTH	MIN LINTEL DEPTH	ADDITIONAL FTG. SIZE AND REINF. WIDTH	LENGTH	FOUNDATION BOLTS
3'-0" TO 5'-0"	NONE	8"	#4	24" O.C.	#4	16" O.C.	2	#4	1	#4	1	#4	2'	6"	SEE FTG. SCHED.		1/2" X 10" @ 32" O.C.
5'-1" TO 6'-0"	NONE	8"	#4	18" O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	3'	6"	30"	3 #4 x CONT	1/2" X 10" @ 32" O.C.
6'-1" TO 7'-0"	NONE	8"	#4	12" O.C.	#4	16" O.C.	2	#4	1	#4	1	#4	4'	8"	36"	4 #4 x CONT	1/2" X 10" @ 32" O.C.
7'-1" TO 8'-0"	FLOOR	8"	#4	24" O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	5'	10"	SEE FTG. SCHED.		1/2" X 10" @ 32" O.C.
8'-1" TO 9'-0"	FLOOR	8"	#4	16" O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	6'	12"	SEE FTG. SCHED.		5/8" X 12" @ 32" O.C.
9'-1" TO 10'-0"	FLOOR	8"	#4	12" O.C.	#4	12" O.C.	2	#4	1	#4	1	#4	6'	12"	SEE FTG. SCHED.		5/8" X 12" @ 24" O.C.
10'-1" TO 12'-0"	FLOOR	8"	#4	6" O.C.	#4	12" O.C.	2	#4	1	#4	1	#4	6'	12"	30"	3 #4 x CONT	5/8" X 10" @ 18" O.C.
12'-1" TO 14'-0"	FLOOR	8"	#5	7" O.C.	#4	12" O.C.	2	#4	1	#4	1	#4	6'	12"	36"	4 #4 x CONT	5/8" X 10" @ 12" O.C.
14'-1" TO 16'-0"	FLOOR	10"	#5	6" O.C.	#4	12" O.C.	2	#4	1	#4	1	#4	6'	12"	42"	5 #4 x CONT	5/8" X 10" @ 12" O.C.
> 16'-0"+	REQ ENG	-	-	-	-	-	-	-	-	-	-	-	-	-	-		REQ ENG

NOTES:
1. REBAR TO BE PLACED IN THE CENTER OF THE WALL AND EXTEND FROM THE FOOTING TO WITHIN 3" OF THE TOP OF THE WALL
2. #4 FOOTING DOWELS SHALL EXTEND 24" INTO THE FOUNDATION AND MATCH VERTICAL STEEL
3. ONE BAR SHALL BE LOCATED IN THE TOP 3" AND ONE BAR IN THE BOTTOM 3" OF THE FOUNDATION WALL (THE REMAINING EQUALLY SPACED BETWEEN)
4. BARS SHALL BE PLACED WITHIN 2" OF THE OPENING AND EXTEND 24" BEYOND THE EDGE OF THE OPENING
5. THIS TABLE ASSUMES A MINIMUM OF 1500 PSF BEARING CAPACITY, 30 PSF EQUIVALENT FLUID PRESSURE AND A GLOBALLY STABLE SITE
6. ALL FOUNDATION STEPS SHALL BE 2'-0" MINIMUM
7. USE 3" X 3" X 1/4" WASHERS
8. J-BOLTS MAY BE REPLACED WITH #4 BARS @ 12" O.C. EXTENDING 24" OUT OF FND CAST INTO SUSPENDED SLAB

FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICK	REINFORCEMENT
F-16	16"	CONT.	8"	2: # 4 BARS CONT.
F-18	18"	CONT.	8"	2: # 4 BARS CONT.
F-20	20"	CONT.	10"	2: # 4 BARS CONT.
F-24	24"	CONT.	10"	2: # 4 BARS CONT.
F-30	30"	CONT.	10"	3: # 4 BARS CONT.
F-36	36"	CONT.	10"	4: # 4 BARS CONT.
S-20	20"	20"	10"	2: # 4 BARS EACH WAY
S-24	24"	24"	10"	2: # 4 BARS EACH WAY
S-30	30"	30"	10"	3: # 4 BARS EACH WAY
S-36	36"	36"	10"	4: # 4 BARS EACH WAY
S-40	40"	40"	12"	5: # 4 BARS EACH WAY
S-48	48"	48"	12"	6: # 4 BARS EACH WAY
S-60	60"	60"	12"	7: # 4 BARS EACH WAY

NOTE: MEET EGRESS REQUIREMENTS AS PER R310
- MAX. SILL HEIGHT IS 44 IN.
- MIN. OPEN AREA = 5.7 SQ. FT.
- MIN. NET OPENING WIDTH = 20 IN.
- MIN. NET OPENING HEIGHT = 24 IN.
- MIN. WINDOW WELL AREA = 9 SQ. FT.
- WINDOW WELLS DEEPER THAN 44 IN SHALL HAVE AFFIXED LADDER

NOTE: THIS ENGINEERING ASSUMES THAT EITHER THE SETBACK REQUIREMENTS LISTED IN IRC SECTION R403.1.7.2 ARE MET, OR THAT A 20' DEEP LEVEL YARD (5% GRADE OR LESS) EXISTS ON ALL SIDES OF THE HOME. IF THIS IS NOT TRUE THEN CONTACT ENGINEER FOR FURTHER ANALYSIS AND DESIGN.

NOTE: THIS ENGINEERING ASSUMES THAT THE SITE IS STABLE HAVING NO GLOBAL STABILITY CONCERNS OR HAZARDS. IF THIS IS NOT TRUE THEN CONTACT ENGINEER FOR FURTHER ANALYSIS AND DESIGN.

FOOTING, FOUNDATION AND CONCRETE

ALL FOOTINGS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY. NO FOOTINGS SHALL BE PLACED IN WATER OR FROZEN GROUND. ALL FOOTINGS TO BE PLACE AT MIN. BELOW LOCAL FROST DEPTH, CONTINUOUS AND MONOLITHIC POUR. CHANGES IN ELEV. SHALL BE STEPPED WITH STEP HEIGHT NOT HIGHER THAN ⅔ THE STEP LENGTH AND NOT GREATER THAN 5 FT. MIN. 6" THICKNESS ON VERT. STEP. FOOTINGS TO HAVE 2 #4 BAR CONTINUOUS. NOTIFY ENGINEER IF GRADE DROPS OVER 8 FEET IN 24 FEET (O.T. 1 TO 3 SLOPE) SO THAT APPROPRIATE DESIGN CHANGES MAY BE MADE TO FOUNDATION AND FOOTINGS.

ALL FOOTINGS, FOUNDATIONS, AND INTERIOR SLABS SHALL BE NORMAL WT. CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 3,000 PSI WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN .50 WITH A MINIMUM CEMENT CONTENT OF 504 LBS. PER CUBIC YARD ALL CONC WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.

ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318. REINFORCEMENT SHALL BE FREE FROM MUD AND OIL AND OTHER NON-METALLIC COATINGS THAT HAMPER BONDING CAPACITY. ALL SPLICES IN CONTINUOUS REINFORCING SHALL LAP 30 BAR DIAMETERS.

VERT & HORIZ. #4 BAR (GRADE 60) AS PER FND SCHEDULE. OPENINGS TO HAVE 1 VERT. #4 BAR EA. SIDE OF OPENING TIED TO HORIZ. BAR. 2 #4 BAR ABOVE AND 1 #4 BELOW WINDOW OPENING EXTENDING 24" BEYOND OPENING. USE ANCHOR BOLTS AS PER FND SCHEDULE USE SIMPSON STHD(RJ) STRAPS AS NOTED ON DRAWING. OWNER\CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS LISTED ON THE DRAWING. VERIFICATION OF ALL SITE CONDITIONS INCLUDING SITE STABILITY IS THE RESPONSIBILITY OF OTHERS

ALLOW 14 DAYS FOR CONCRETE TO CURE PRIOR TO BACKFILL.

LICENSED PROFESSIONAL ENGINEER KELBY MAX YORK No. [illegible] STATE OF UTAH

PLAN #
R-1800-15

York Engineering INC
Structural Design And Analysis
2329 W. Spring Hollow Rd.
Morgan, Utah 84050
(801)876-3501

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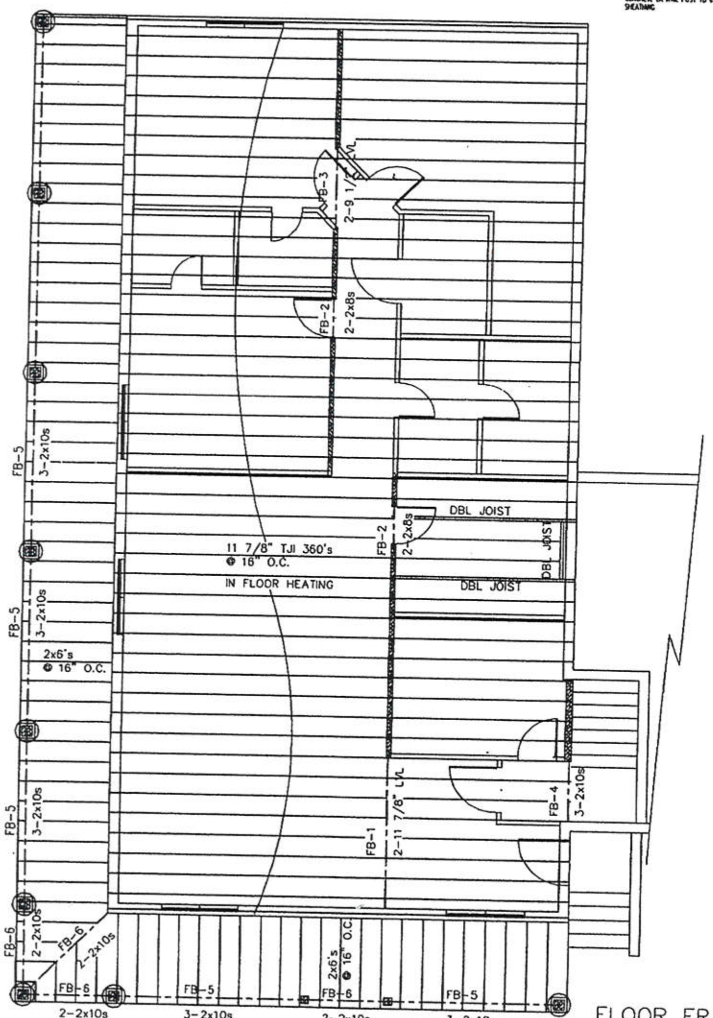
THE TRUSS PACKAGE, AS REQUIRED BY IBC 2303.4, MUST BE SUBMITTED TO THE BUILDING OFFICIAL AS A DEFERRED SUBMITTAL. PRIOR TO SUBMITTING TO THE CITY THE PACKAGE MUST BE REVIEWED BY THE ENGINEER OF RECORD AND STAMPED FOR GENERAL CONFORMANCE. NO TRUSSES ARE TO BE INSTALLED UNTIL APPROVED BY THE CITY (SEE IBC 107.3.4.2)

TRUSS/ GIRDER CONNECTION

USE SIMPSON H1 OR EQUIV. TIES EACH END OF EA. TRUSS. INSTALL RAFTER HANGERS EA. END OF EA. RAFTER AS PER MANUFACTURE SPECS. INSTALL SOLID BLOCKING BETWEEN TRUSSES ALONG BEARING WALLS. INSTALL MSTA-2 OR EQUIV. STRAPS TO EA. END GIRDERS IF UPLIFT LESS THAN 1365 LBS. INSTALL MGT OR EQUIV. STRAPS TO EA. END GIRDERS IF UPLIFT LESS THAN 4340 LBS.

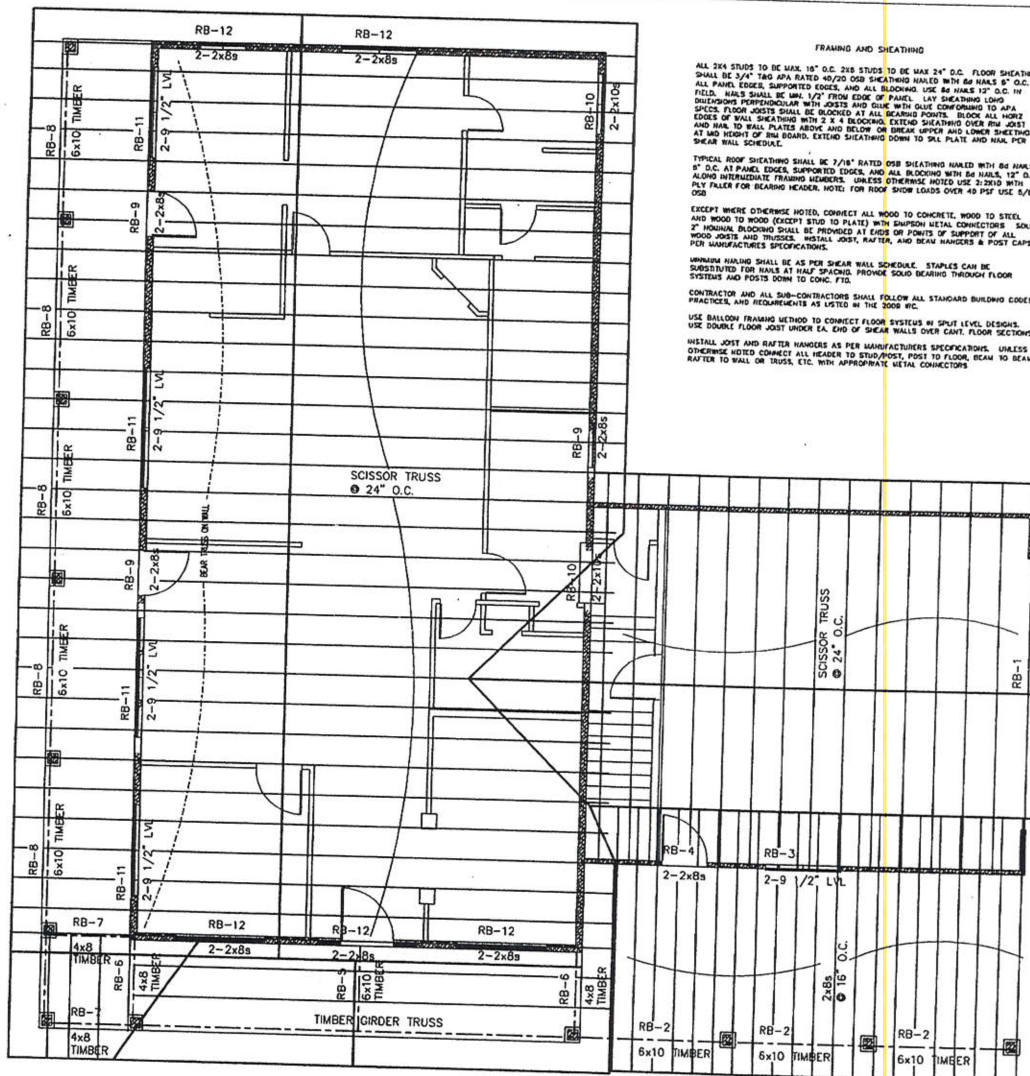
HEADER TRIMMER CONNECTION

- FOR HEADERS LESS THAN 5' LONG
  - NAIL TO KING STUD USING (4)16d NAILS
- FOR HEADERS 5'- 8'-6" LONG
  - INSTALL TWO ACE EA. END OR 12" LONG CS16 STRAP
  - USE (2) TRIMMERS
- FOR HEADERS 9'-18' LONG
  - INSTALL TWO ST16 EA. END
  - USE (2) TRIMMERS
  - INSTALL MST48 THROUGH FLOOR DIAPHRAGM IF APPLICABLE
  - INSTALL STHD8 OR HTT22 OR HDU TO CONCRETE OR NAIL POST TO WALL SHEATHING



FLOOR FRAMING PLAN

SCALE 1/4"= 1' 0"



ROOF FRAMING PLAN

SCALE 1/4"= 1' 0"

FRAMING AND SHEATHING

ALL 2X4 STUDS TO BE MAX. 16" O.C. 2X6 STUDS TO BE MAX 24" O.C. FLOOR SHEATHING SHALL BE 3/4" T&G APA RATED 40/20 OSB SHEATHING NAILED WITH 8d NAILS 6" O.C. AT ALL PANEL EDGES, SUPPORTED EDGES, AND ALL BLOCKING. USE 8d NAILS 12" O.C. IN FIELD. NAILS SHALL BE MIN. 1/2" FROM EDGE OF PANEL. LAY SHEATHING LONG DIMENSIONS PERPENDICULAR WITH JOISTS AND GLUE WITH GLUE CONFORMING TO APA SPECS. FLOOR JOISTS SHALL BE BLOCKED AT ALL BEARING POINTS. BLOCK ALL HORZ EDGES OF WALL SHEATHING WITH 2 X 4 BLOCKING. EXTEND SHEATHING OVER RIM JOIST AND NAIL TO WALL PLATES ABOVE AND BELOW OR BREAK UPPER AND LOWER SHEETING AT MID HEIGHT OF RIM BOARD. EXTEND SHEATHING DOWN TO SILL PLATE AND NAIL PER SHEAR WALL SCHEDULE.

TYPICAL ROOF SHEATHING SHALL BE 7/16" RATED OSB SHEATHING NAILED WITH 8d NAILS 6" O.C. AT PANEL EDGES, SUPPORTED EDGES, AND ALL BLOCKING WITH 8d NAILS, 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. UNLESS OTHERWISE NOTED USE 2:2X10 WITH PLY FILLER FOR BEARING HEADER. NOTE: FOR ROOF SNOW LOADS OVER 40 PSF USE 5/8" OSB

EXCEPT WHERE OTHERWISE NOTED, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH SIMPSON METAL CONNECTORS. SOLID 2" NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES. INSTALL JOIST, RAFTER, AND BEAM HANGERS & POST CAPS PER MANUFACTURES SPECIFICATIONS.

MINIMUM NAILING SHALL BE AS PER SHEAR WALL SCHEDULE. STAPLES CAN BE SUBSTITUTED FOR NAILS AT HALF SPACING. PROVIDE SOLID BEARING THROUGH FLOOR SYSTEMS AND POSTS DOWN TO CONC. FTG.

CONTRACTOR AND ALL SUB-CONTRACTORS SHALL FOLLOW ALL STANDARD BUILDING CODES, PRACTICES, AND REQUIREMENTS AS LISTED IN THE 2009 IRC.

USE BALLOON FRAMING METHOD TO CONNECT FLOOR SYSTEMS IN SPLIT LEVEL DESIGNS. USE DOUBLE FLOOR JOIST UNDER EA. END OF SHEAR WALLS OVER CANT. FLOOR SECTIONS.

INSTALL JOIST AND RAFTER HANGERS AS PER MANUFACTURERS SPECIFICATIONS. UNLESS OTHERWISE NOTED CONNECT ALL HEADER TO STUD/POST, POST TO FLOOR, BEAM TO BEAM, RAFTER TO WALL OR TRUSS, ETC. WITH APPROPRIATE METAL CONNECTORS

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KELBY MAX YORK

- SURFACE MOUNTED LIGHT
- RECESSED LIGHT
- CEILING FAN
- CEILING EXHAUST FAN W/ LIGHT
- WALL MOUNTED LIGHT
- S SWITCH
- ₂S MULTIPLE SWITCH
- —TV TELEVISION
- —PH TELEPHONE
- DUPLEX OUTLET
- AF ARC-FAULT CIRCUIT INTERRUPTER
- GFI G.F.I.
- 1/2 SWITCHED OUTLET
- 220 220 V. OUTLET
- RECESSED FLOOR OUTLET
- SMOKE DETECTOR
- CARBON DIOXIDE DETECTOR
- RECESSED IN WALL LIGHT
- FLUORESCENT LIGHT
- UNDER CABINET LIGHTING
- ▽ EXTERIOR FLOOD LIGHT
- SPEAKER

WHERE TWO OR MORE NON-METALLIC SHEATHED CABLES (ROMEX) ARE INSTALLED TOGETHER IN THE SAME SPACE WITHOUT MAINTAINING SPACE BETWEEN THEM AND WHERE THE OPENING THEY ARE INSTALLED IN IS FILLED WITH CAULKING, FOAM INSULATION, OR OTHER TYPES OF INSULATION, THE CONDUCTORS MUST BE DERATED AS REQUIRED BY IRC E3705.4.4

NOTE:
USE TAMPER RESISTANT RECIPTACLE OUTLETS

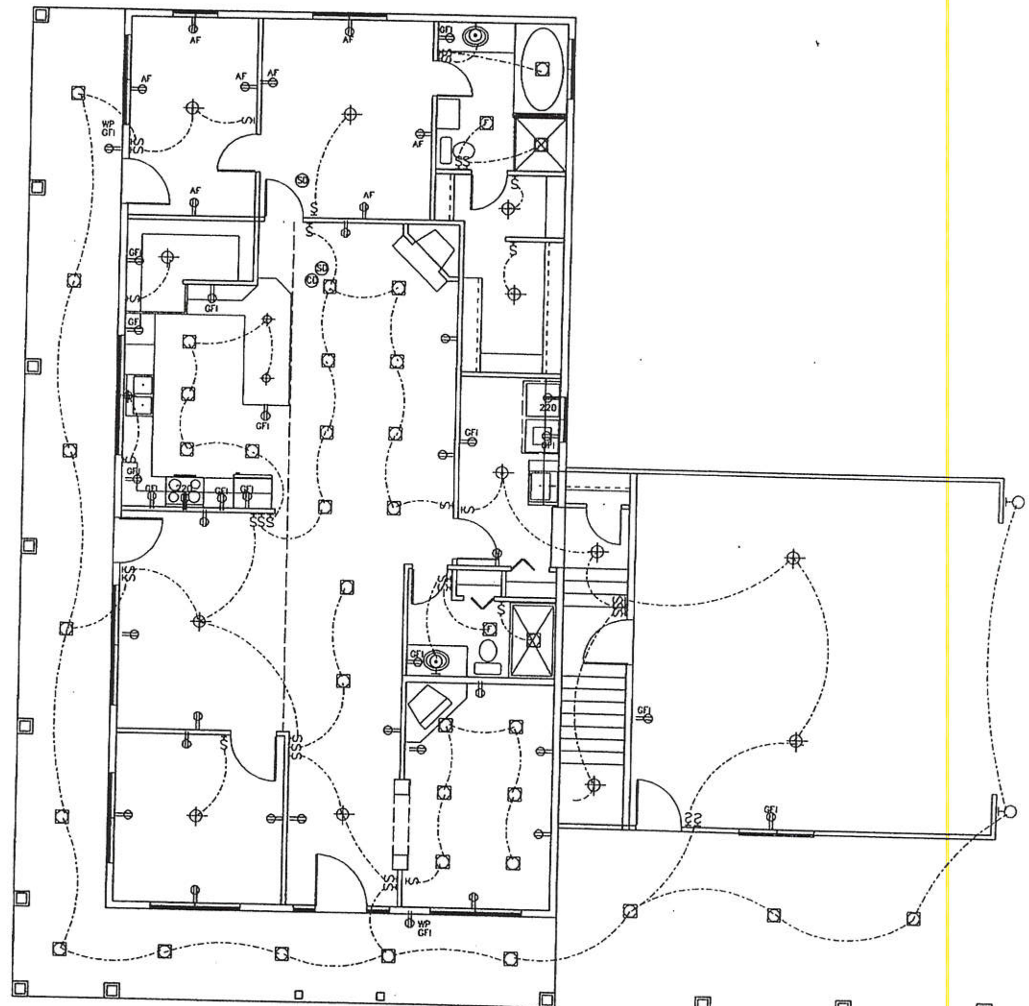
SMOKE/ CO DETECTORS TO BE HARDWIRED, INTERCONNECTED AND BACKED UP BY BATTERY POWER

LIGHTS FOR FRONT DOOR AND ATRIUM DOOR TO BE TEMPERED A RECEPTACLE SHALL BE INSTALLED WITHIN THE PERIMETER OF BALCONIES, DECKS AND PORCHES. EXTERIOR GFI's IN WEATHER PROOF COVER MECHANICAL DESIGN BUILD TO LOCAL SPECIFICATIONS ALL BEDROOM CIRCUITS ARE FAULT PROTECTED.

NOTE:
BACKWATER VALVE IS REQ. ON THE SEWER LINE THAT SERVES THE PLUMBING FOR FIXTURES LOCATED BELOW THE FLOOD LEVEL OF THE NEAREST UPHILL MANHOLE COVER. FIXTURES ABOVE THE FLOOD LEVEL OF THE COVER SHALL NOT DISCHARGE THOUGH THE BACKWATER VALVE

FOUNDATON DAMP PROOFING

WATER RESISTIVE WEATHER BARRIER ON EXTERIOR WALLS CONSISTING OF FLASHING AND WEATHER-RESISTIVE SHEATHING PAPER LAPPED MIN OF 2" HORZ AND 6" VERT



ELECTRICAL PLAN
SCALE 1/4"= 1' 0"

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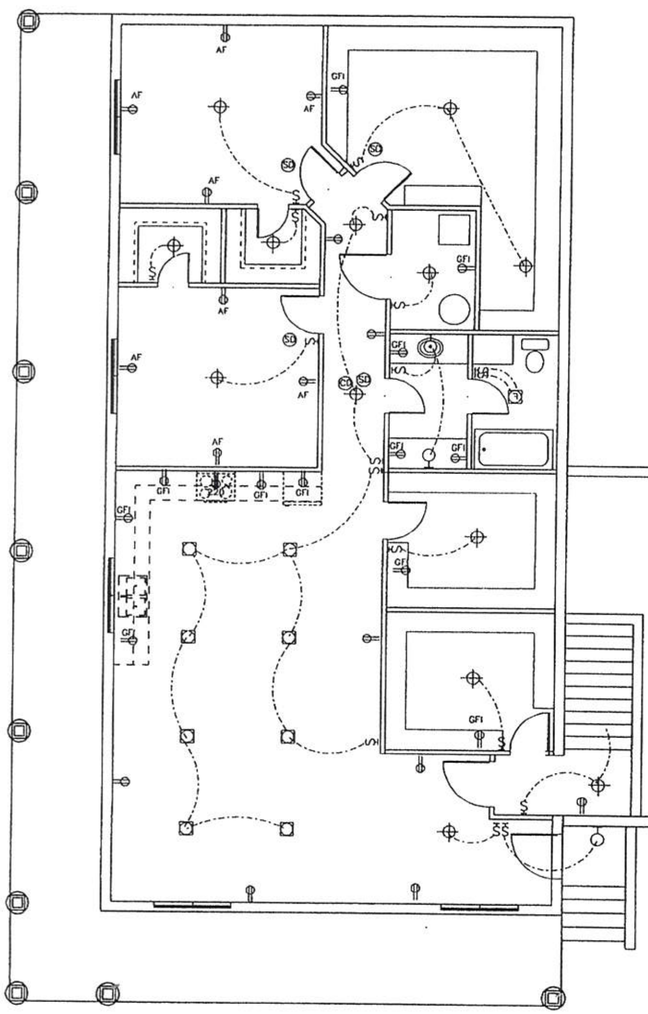
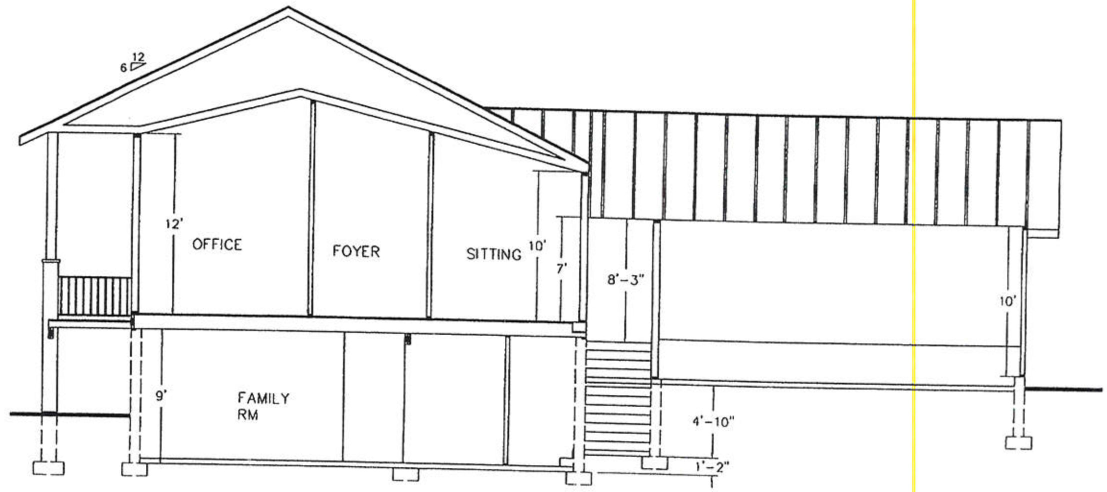
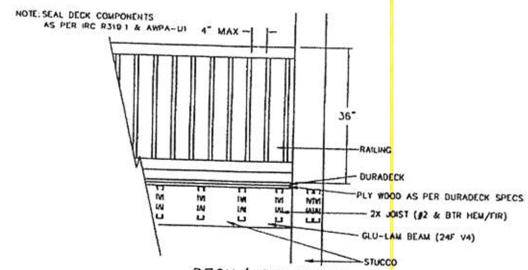


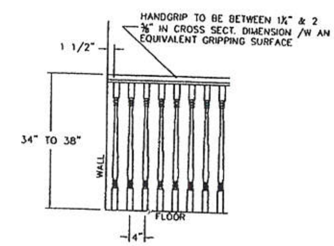
ELECTRICAL PLAN
SCALE 1/4" = 1' 0"



CROSS SECTION
SCALE 1/4" = 1' 0"



DECK/ GUARDRAIL
DETAIL



RAILING DETAIL
24F V4 GLU-LAM BEAM
NOTE: SEAL DECK COMPONENTS

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7/7

GENERAL NOTES:

1. COMPLIANCE WITH CODES AND ORDINANCES GOVERNING THE WORK SHALL BE MADE AND ENFORCED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENTIONS PRIOR TO CONSTRUCTION. NOTE THAT ALL WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. MANUFACTURERES SPECIFICATIONS FOR INSTALLATION OF MATERIALS SHALL BE FOLLOWED. WORKMANSHIP THOUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED AND THE GENERL CONTRACTOR SHALL COORDINATE THE WORK OF THE VARIOUS TRADES TO EXPEDITE THE JOB IN A SMOOTH AND CONTINOUS PROCESS.

2. ALL FOOTINGS SHALL BEAR ON NATRURAL UNDISTURBED SOIL. FOOTINGS SHALL BE EXCAVATED TO A MINIMUM DEPTH SO AS TO PROVIDE FROST PROTECTION. (40" MIN) FINISH GRADING SHALL BE DONE SO AS TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS. A MINIMUM SLOPE OF 5% SHALL BE MAINTAINED FOR FIRST 10'-0" WITH 1% SLOPE THEREAFTER TO APPROVED DRAINAGE AREA.

3. ATTIC VENTILATION:
THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/300TH PROVIDED THAT AT LEAST 50% OF THE AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, THE OTHER TO BE PROVIDED BY VENTED SOFFIT SYSTEM.

4. SHOWER COMPARTMENTS SHALL HAVE AT LEAST 900 SQ. INCHES OF FLOOR AREA AND BE OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 30 INCHES. HINGED SHOWER DOORS SHALL OPEN OUTWARD. THE WALL AREA ABOVE BUILT-IN TUBS HAVING INSTALLED SHOWER HEADS AND IN-SHOWER COMPARTMENTS SHALL BE CONSTRUCTED AS PER SECTION R702.4, SUCH WALLS SHALL FORM A WATERTIGHT JOINT WITH EACH OTHER AND WITH EITHER THE TUB, RECEPTOR OR SHOWER FLOOR. BATHROOMS, WATER CLOSET COMPARTMENTS, AND OHTER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQ. FEET, ONE HALF OF WHICH MUST BE OPENABLE. (IF NO WINDOWS, A MECHANICAL VENTILATION SYSTEM SHALL BE REQ. THE MINIMUM VENTILLATION RATES SHALL BE 50 CFM. FOR CONTINUOUS VENTILATION.

5. ALL HINGED SHOWER DOORS SHALL SWING OUTWARD. GLAZING USED IN DOORS AND PANELS OF SHOWERS AND BATH TUB ENCLOSERS AND BUILDING WALLS ENCLOSING THESE COMPARTMENTS SHALL BE FULLY TERMPERED, LAMINATED SAFETY GLASS OR APPROVED PLASTIC.

6. DRYER EXHAUST SYSTEMS SHALL CONVEY THE MOISTURE TO THE OUTDOORS AND SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINAL. DUCTS SHALL HAVE A BACK DRAFT DAMPER. THE MAX. LENGTH OF CLOTHES DRYER EXHAUST DUCT SHALL NOT EXCEED 25 FEET FROM THE DRYER LOCATION TO THE WALL OR ROOF TERMINATION. THE MAX. LENGTH OF THE DUCTS SHALL BE REDUCED 2.5 FEET FOR EACH 45 DEGREE BEND AND 5 FEET FOR EACH 90 DEGREE BEND.

7. ALL EXTERIOR DOORS SHALL HAVE A FLOOR OF LANDING ON EACH SIDE OF THE DOOR. IF THE DOOR IS NOT A REQ. EXIT DOOR THE LANDING SHALL NOT EXCEED 8" FROM THE TOP OF THRESHOLD. ALL LANDINGS SHALL BE NOT LESS THAN 36" WIDE, MEASURED IN THE DIRECTION OF TRAVEL.

8. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORZ. MOVEMENT. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF THE APPLIANCE'S VERT. DIMENSIONS. AT THE LOWER POINT, THE STRAPPING SHALL MAINTAIN A MIN. DISTANCE OF 4 INCHES ABOVE THE CONTROLS.

9. EMERGENCY FLOOR DRAINS AT WATER HEATERS, LAUNDRIES, GARAGES, ECT. REQ. A TRAP SEAL PRIMER OR DEEP SEAL TRAP. (UTAH STATE AMENDMENT TO IPC SEC. 1002.4.1)

10. BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT EXPOSED TO THE WEATHER = 2,500 PSI. BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS = 2,500 PSI. BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS EXPOSED TO THE WEATHER = 3,000 PSI. PORCHES, CARPORT SLABS, AND STEPS EXPOSED TO THE WEATHER, AND GARAGE FLOOR SLABS = 3,500 PSI.

11. MECHANICAL CONTRACTOR TO PROVIDE COMBUSTION AIR TO FURNACE AREA IN ACCORDANCE WITH LOCAL NATRUAL GAS SPECIFICATIONS. COMBUSTION AIR TO BE BROUGHT INTO HOUSE FROM OUTSIDE. COMBUSTION AIR SHALL BE SUPPLIED BY VERTICAL OPENING, EACH WITH 1 SQ. INCH PER 4,000 BTU/H OF TOTAL INPUTING RATING OF ALL APPLIANCES WITHIN THE SPACE.
COMBUSTION AIR SHALL BE SUPPLIED BY TWO HORIZONTAL OPENINGS, EACH WITH ONE SQ. INCH PER 2,000 BTU/H OF THE TOTAL INPUTE RATING OF ALL APPLIANCES WITHIN THE SPACE.
AIR DUCTS IS UNCONDITIONED SPACES (ATTIC) WILL BE INSULATED W/ R-8 MIN.

12. ALL STUMPS, ROOTS, & ORGANIC MATTER SHALL BE REMOVED FROM THE SOIL IN THE AREA OF THE BUILDING.

13. FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS.

   A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS:
      1) VERTICALLY AT THE CEILING AND FLOOR LEVELS.
      2) HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

   B. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.

   C. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R311.2.2

   D. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLE AND WIRES AT CEILING AND FLOOR LEVEL WITH APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.

   FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.

   E. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT SEPERATION.

REFER TO IRC 2012 SECTION R602 FOR ADDITIONSL REQUIREMENTS FOR THE USE OF EXPANDING CAULK AT ALL PENATRATIONS AND APPROVED METHODS FOR BASEMENT FIREBLOCKING.

14. STAIRWAYS WITH 3 OR MORE RISERS SHALL HAVE AT LEAST ONE (1) HANDRAIL. HANDRAILS SHALL BE PLACED 34" TO 38" ABOVE THE NOSE OF THE TREADS VERTICALLY TO THE TOP OF THE RAIL. THEY SHALL BE CONTINOUS THE FULL LENGTH OF THE STAIRS. THE HANDGRIP PORTION SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 2" IN CROSS SECTIONSL DIMENTION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. ENDS SHALL BE RETURNED TO THE WALL OR TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. LANDINGS ARE REQUIRED FOR ALL EXTERIOR DOORWAYS, AT THE TOP AND BOTTOM OF STAIRWAYS WITH MORE THAN 2 RISERS, THEY MUST BE AS WIDE AS THE STAIRWAY AND MINIMUM OF 3FEET LONG.

15. PORCHES, BALCONIES, RAMPS OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. (R312.1)

   EXCEPTIONS:

   A. THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE SUCH A SIZE THAT A SPERE 8 INCHES CANNOT PASS THROUGH.

   B. OPENINGS FOR REQUIRED GUIRDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 INCHES TO PASS THOUGH.

16. APPROVED NUMBER FOR ADDRESS SHALL BE PROVIDED FOR ALL NEW BUILDINGS IN SUCH A POSITION TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROADWAY FRONTING THE PROPERTY.

17. GLASS IN DOOR SHALL BE SAFETY GLAZED. GLAZING ADJACENT TO A DOOR WITHIN A 24 INCH ARC OF EITHER DOOR EDGE WHEN CLOSED. MUST BE SAFETY GLAZED IF THE BOTTOM EDGE IS WITHIN 60 INCHES OF THE FLOOR OR WALKING SURFACE. GLAZED PANELS LARGER THAN NINE SQUARE FEET LOCATED LESS THAN 18 IN ABOVE AND WITHIN 36 INCHES HORIZONTALLY OF A FLOOR OR WALKING SURFACE SHALL BE SFETY GLAZED. IN LIEU OF SAFETY GLAZING, GLASS MAY BE PROTECTED BY A HORIZONTAL MEMBER 1-1/2 INCHES IN WITH, CAPABLE OF RESISTING 50 POUNDS PER LINEAL FOOT, LOCATED BETWEEN 34 INCHES AND 38 INCHES ABOVE THE WALKING SURFACE PER R308.4.

18. WINDOWS ARE RECOMMENDED TO BE DOOR HEIGHT. MINIMUM WINDOW AREA SHALL BE EQUAL TO, BUT NOT LESS THAN 1/10th OF THE HABITABLE FLOOR AREA, BUT NOT LESS THAN 10 SQ. FEET. ONE HALF OF WHICH SHALL BE OPEN A MINIMUM OF FIVE SQ. FEET. BASEMENT AND EACH BEDROOM MUST HAVE ONE ONE WINDOW THAT MEETS THE FOLLOWING:

   A. SILLS SHALL BE WITHIN 44 INCHES OF THE FINISHED FLOOR TO OPENING OF WINDOW.

   B. WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET WITH HEIGHT DIMENSION NOT LESS THAN 24 INCHES AND WIDTH DIMENSION NOT LESS THAN 20 INCHES.

   OVER PRESSURE ZONE:
   NO PANE OF GLASS SHALL BE MORE THAN 4' WIDE OR LARGER THAN 12 SQ. FT.

19. PROVIDE SCREENS ON ALL OPERABLE WINDOWS AND GLASS DOORS.

20. UNLESS OTHERWISE SPECIFIED, ALL BASEMENT WINDOWS NOT FULLY SIX INCHES ABOVE FINISHED GRADE SHALL BE PROTECTED BY GALVANIZED IRON OR CONCRETE WINDOW WELLS. WINDOW WELLS TO BE DUG TO A DEPTH BELOW THE WINDOW SILL TO ALLOW 10 INCHES OF ONE INCH AGGREGRATE GRAVEL TO BE SIX INCHES BELOW THE WINDOW SILL. THE WINDOW WELL SIZE SHALL BE A MINIMUM OF NINE SQ. FEET.

21. ALL HEATING AND VENTILATING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IMC 2012 CODE OR THE PREVAILING CODE. FURNACES AND WATER HEATERS SHALL BE SO INSTALLED THAT THEY CAN BE INDIVIDUALLY REMOVED WITHOUT REMOVING THE OTHER APPLIANCE.

22. PROVIDE SIX INCHES OF CLEARANCE ON THE COMBUSTIBLE AIR SIDE OF THE FURNACE ROOM AND 30 INCHES x 36 INCHES WORKING SPACE IN FRONT OF ALL HEATING CONTROLS. THREE INCHES MINIMUM ON ALL OTHER SIDES.

23. JOINTS OF DUCT SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF TAPE, MASTICS, GASKETING OR OTHER APPROVED CLOSURE SYSTEMS. CLOSURE SYSTEMS USED WITH RIGID FIBROUS GLASS DUCTS SHALL COMPLY WITH UL 181A AND SHALL BE MARKED "181A-P" FOR PRESSURE-SENSITIVE TAPE, "181A-M" FOR MASTIC OR "181A-H" FOR HEAT-SENSITIVE TAPE. CLOSURE SYSTEMS USED WITH FLEXIABLE AIR DUCTS AND FLEXIABLE AIR CONNECTORS SHALL HAVE A CONTACT LAP OF AT LEAST 1-1/2 INCHES AND SHALL BE MECHANICALLY FASTENED BY MEANS OF AT LEAST THREE SHEET-METAL SCREWS OR RIVITS EQUALLY SPACED AROUND THE JOINT (M1601.3.1)

24. WATER HEATER AND FURNACE VENTS SHALL NOT TERMINATE WITHIN TEN FEET HORIZONTALLY OR THREE FEET ABOVE AN AIR CONDITIONER OR FORCED AIR INLET.

25. ALL SHOWER HEADS SHALL BE WATER CONSERVING TYPES USING NOT MORE THAN 2.5 GALLONS PER MINUTE.

26. ALL FLUE VENTS AND WSHAUST FAN VENTS SHALL BE AT LEAST THREE FEET ABOVE AN OUTSIDE AIR INLET LOCATED WITHIN TEN FEET AND AT LEAST FOUR FEET FROM A PROPERTY LINE. ALL EXHAUST VENTS SHALL TERMINATE OUTSIDE.

27. ELECTRICAL PANELS SHALL HAVE A CLEAR WORKING SPACE 30 INCHES WIDE, 36 INCHES DEEP AND 6'-6" INCHES HIGH IN FRONT OF THE PANEL. ELECTRICAL PANELS CANNOT BE LOCATED IN BATHROOMS.

28. PROVIDE UFER GROUNDING SYSTEM WHEN USING THE WATER SERVICES AS THE PRIMARY GROUND.

29. ALL ELECTRICAL SWITCHES, RECEPTACLES, EXT. IN A GARAGE SHALL BE A MINIMUM OF 18 INCHES ABOVE THE FINISHED FLOOR.

30. STRUCTURAL FILL, IF REQUIRED, SHALL BE PLACED IN LIFTS NOT TO EXCEED EIGHT INCHES OF LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY, LIFTS SHALL NOT EXCEED FOUR INCHES OF LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.

31. FREEZELESS, BACKLOW PREVENTION HOSE BIB REQUIRED ON ALL EXTERIOR LOCATIONS OF HOSE BIBS.

32. PLUMBING SYSTEM SHALL CONFORM TO REQUIREMENTS OF THE IPC 2012.

33. PROVIDE ANTI-SCALD SHOWER VALVES ON ALL SHOWER AND TUB-SHOWER COMBINATION INSTALLATIONS.

34. NO SLIP JOINT PLUMBING CONNECTIONS OR FITTINGS ALLOWED IN CONCEALED CONSTRUCTION AREAS.

35. CSST STAINLESS STEEL GAS LINE MAY BE USED BUT MUST BE SIZED AND APPROVED BEFORE INSTALLATION. ANY CSST INSTALLED MUST BE VISUALLY INSPECTED AND PRESSURE TESTED BEFORE BEING CONCEALED WITHIN CONSTRUCTION.

36. ALL GAS LINES MUST BE PRESSURE TESTED AT ROUTH INSPECTION.

37. NO CLOTH TYPE DUCT TAME IS ALLOWED. UL 181 LISTED TAPE MUST BE USED

38. ALL JOINTS, TRANSVERSE AND LONGITUDINAL SEAMS AND CONNECTIONS MUST BE PROPERLY SEALED WITH APPROVED AND LISTED TAPE OR MASTIC.

39. GAS LINES SHALL NOT PASS THROUGH OR PENTRATE ANY DUCT OR PLENIUM.

40. AN ICE BARRIER THAT CONSISTS OF AT LEAST TWO LAYERS OF UNDERLAYMENT CEMENTED TOGEATHER OR OF A SELF ADHERING POLYMER MODIFIED BITUMEN SHEET, SHALL BE USED IN LIEU OF NORMAL UNERLAYMENT AND EXTEND FROM THE EAVE'S EDGE TO A POINT AT LEAST 24 INCHES INSIDE THE EXTERIOR WALL LINE OF THE BUILDING.

41. ALL FASTENERS (I.E. NAILS, SCREWS, ANCHOR BOLTS, ETC.) WHICH ARE TO BE INSTALLED IN PRESERVATIVE TREATED WOOD (I.E. SILL PLATES) SHALL MEET THE REQUIREMENTS OF IBC 2304.9.5

42. TRUSS PACKAGE, AS REQUIRED BY IBC 2303.4 MUST BE SUBMITTED BO THE BUILDING OFFICAL AS A DEFERRED SUBMITTAL. PRIOR TO SUBMITTING TO THE CITY THE PACKAGE MUST BE REVIEWED BY THE ENGINEER OF RECORD AND STAMPED FOR GENERAL CONFORMANCE. NO TRUSSES ARE TO BE INSTALLED UNTIL APPROVED BY THE CITY (SEE IBC 107.3.4.2)

43. FACTORY-BUILT CHIMNEY MUST BE AT AN ANGLE LESS THAN 30 DEGREES FROM THE VERTICAL AT ANY POINT. AND THE ASSEMBLY SHALL NOT INCLUDE MORE THAN FOUR ELBOWS

44. WHERE TWO OR MORE NON-METALLIC SHEATHED CABLES (ROMEX) ARE INSTALLED TOGETHER IN THE SAME SPACE WITHOUT MAINTAINING SPACE BETWEEN THEM AND WHERE THE OPENING THEY ARE INSTALLED IN IS FILLED W/ CAULKING, FOAM INSULATION, OR OTHER TYPES OF INSULATION, THE CONDUCTORS MUST BE DERATED AS REQ. BY IRC E 3705.4.4

STRUCTURAL NOTES

The following general requirements shall be followed during construction

1. Contractor to verify all dimentions, spans, & conditions and notify engineer of ony errors, ommisions or discrepancies prior to construction
2. Use Simpson A35 ties each contilevered joist to sill or top plate.
3. Use Simpson H1 or equiv. ties each end of each truss.
4. Foundation reinforcement as per Utah State Amendment.
5. Use 2: #4 bars continuous for all footings
   2: #4 bars each side of openings & 2: #4 bars top & bottom extend 36" beyond opening
6. Use 1/2" X 10" J-Bolts @ 32" O.C. for found walls up to 8' high, 5/8" X 1/2" @ 32" O.C. over 8'
7. If discrepancies are found, the more stringent specification shall be followed.
8. All multiple beams and headers to be nailed using 16d two rows 12" O.C.
9. Contractor shall assure that all materials are used per manufactures recommendations.
10. Geotech engineer shall verify overall global stability of the building site.
11. Connect beams & headers over 6 ft. to trimmers with appropriate connectors/hangers.
12. Contractor shall assure that footings are properly droined and that soil is dry and that footings rest on undisturbed native soil 30" below finished grade and that building horizontal clearance from footing to adjacent slopes be a minimum of 25 feet and that the intent of IRC section R403.1.7.2 is met. If set back requirements of R403.1.7.2 can not be met then contact engineer for further design requirements.
13. The contractor shall conform with all building codes and practices as per the 2012 IRC.
14. Use balloon froming method when connecting floors in split level designs.
15. Nail all shear walls to floor joist using 2: 26d 16" O.C. Add additional floor jist as reqd.
16. Provide joist and rafter hangers as per manufacturers specifications.
17. Foundation steps shall not exceed 4 ft or 1/2 the horizontal distance between steps. Horz. rebar shall be 12" O.C. though step downs and extend 48" either side of step
18. If garage return walls are less than 32" wide then extend headers across return walls with 2 king studs on either end extending from the top of the header to the bottom plate or install (2) MST 36 straps each end of header extend across wing walls.
19. Use a minimum of 2-9 1/2" LVLs for all headers carring girder loads.
20. Allow 14 days to cure prior to backfill
21. Use 1 1/8" wide timberstrond or equiv. for all rim joist
22. Provide solid blocking through structure down to footing for all load paths.
23. Builder shall follow all recommendations found in all applicable Geotechnical reports.
24. Stacking of two sill plates is permittted with 5/8" J-bolts through both plates. Stacking more than two plates is not permitted without special engineering.

PLAN #
R-1800-15

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APPENDIX J: Additional Information