

### **City of Ketchum** Planning & Building

OFFICIAL	USE ONLY
File Number:	P23-017
Date Received:	3/28/23
Ву:	HLN
Pre-Application	Fee Paid:
Design Review	Fee Paid:\$1400
Approved Date:	
Denied Date:	
Ву:	
ADRE: Yes N	lo 🗌

### **Design Review Application**

APPLICANT INFORMATION						
Project Name: Warm springs Lot 32		Phone: 208.1875				
Owner: WSR Development LLC		Mailing Address:	Box 284 sun Valley, Idaho 83353			
Email:robert@vpcompanies.com		PO	box 204 sull valley, idano 63333			
Architect/Representative: Think Architecture	e, John Shirley	Phone: 801.269.0055				
Email:jmshirley@thinkaec.com		Mailing Address:	7 S. Lligh Boint Bloom, Sto 200, Salt Lako City, LTT 94004			
Architect License Number: #6247466-0301		Mailing Address: 7927 S. High Point Pkwy, Ste 300 Salt Lake City, UT 84094				
Engineer of Record: Benchmark Associates		Phone: 208-726-9512				
Email: rob@bma5b.com		Mailing Address:	Bell Dr, Ketchum, ID 83340			
Engineer License Number:		i				
			more than four (4) dwelling units and development			
projects containing more than four (4) dwellin PROJECT INFORMATION	g units snaii be preparea b	y an Idana licensea architect o	r an Iaano Iicensea engineer.			
Legal Land Description: Warm springs Re	sidences Block 4 Lot 32 - F	3PK05790040320				
Street Address: 160 Bald Mountain Road	sideffices block 4, Lot 02 - 1	1100700040320				
Lot Area (Square Feet): 9,552 sq. ft.						
Zoning District: GR-L						
Overlay District:   □Floodplain	□ Avalanche	 □Mountain				
Type of Construction:	□Addition		□Other			
Anticipated Use: Single Family Residence		Number of Residential Units: 1				
TOTAL FLOOR AREA		IVAIIIDEL OF RESIDEN	, and officer			
	Proposed		Existing			
Basements	2,009	Sq. Ft.	O Sq. Ft.			
1st Floor	1,706	Sq. Ft.	Sq. Ft.			
2 <sup>nd</sup> Floor		Sq. Ft.	Sq. Ft.			
3 <sup>rd</sup> Floor		Sq. Ft.	Sq. Ft.			
Mezzanine		Sq. Ft.	Sq. Ft.			
Total	3,715	Sq. Ft.	Sq. Ft.			
FLOOR AREA RATIO						
Community Core:	Tourist:		General Residential-High:			
BUILDING COVERAGE/OPEN SPACE						
Percent of Building Coverage: 3,343 sq. ft	allowed, 2,129.67 proposed or 2	22% proposed				
DIMENSIONAL STANDARDS/PROPOS	ED SETBACKS					
Front: 15'-0"	Side: 10'-0"	Side: 10'-0"	Rear: 30'-0"			
Building Height: 29'-1"						
OFF STREET PARKING						
Parking Spaces Provided: (2) garage spaces.	(2) driveway stalls					
Curb Cut: 26'-0" Sq. Ft.	923 sq. ft. %					
WATER SYSTEM						
■ Municipal Service		☐ Ketchum Spring Water				

The Applicant agrees in the event of a dispute concerning the interpretation or enforcement of the Design Review Application in which the city of Ketchum is the prevailing party, to pay the reasonable attorney fees, including attorney fees on appeal and expenses of the city of Ketchum. I, the undersigned, certify that all information submitted with and upon this application form is true and accurate to the best of my knowledge and belief.

2023.03.01

Signature of Owner/Representative

Date

Once your application has been received, we will review it and contact you with next steps.

No further action is required at this time.

#### **DESIGN REVIEW EVALUATION STANDARDS**

(May not apply to Administrative Design Review):

#### 17.96.060: IMPROVEMENTS AND STANDARDS FOR ALL PROJECTS

#### A. Streets:

- 1. The applicant shall be responsible for all costs associated with providing a connection from an existing city streets to their development.
- All streets designs shall be in conformance with the right-of-way standards and approved by the Public Works Director.

#### B. Sidewalks:

- All projects under 17.96.010(A) that qualify as a "Substantial Improvement" shall install sidewalks in conformance with the right-of-way standards. Sidewalk improvements may be waived for projects that qualify as a "Substantial Improvement" which comprise additions of less than 250 square feet of conditioned space.
- The length of sidewalk improvements constructed shall be equal to the length of the subject property line(s) adjacent to any public street or private street.
- New sidewalks shall be planned to provide pedestrian connections to any existing or future sidewalks adjacent to the site. In addition, sidewalks shall be constructed to provide safe pedestrian access to and around a building.
- 4. The city may approve and accept voluntary cash contributions in-lieu of the above described improvements, which contributions must be segregated by the city and not used for any purpose other than the provision of these improvements. The contribution amount shall be one hundred ten percent (110%) of the estimated costs of concrete sidewalk and drainage improvements provided by a qualified contractor, plus associated engineering costs, as approved by the Public Works Director. Any approved in-lieu contribution shall be paid before the city issues a certificate of occupancy.

#### C. Drainage:

- 1. All storm water shall be retained on site.
- Drainage improvements constructed shall be equal to the length of the subject property lines adjacent to any public street or private street.
- The Public Works Director may require additional drainage improvements as necessary, depending on the unique characteristics of a site.

# WARM SPRINGS #32

PROJECT ADDRESS

160 BALD MOUNTAIN ROAD KETCHUM, ID 83340
PROPERTY I.D. NUMBER:

	DRAWING INDEX						
GENERAL						STRUCTURAL	
SHEET NAME	#	DATE		SHEET #		SHEET NAME	
COVER SHEET	1	04-27-2023		\$101	Structural		
GENERAL NOTES							
BUILDING AREA ANALYSIS							
SPECIFICATIONS							
SPECIFICATIONS							
SPECIFICATIONS	1	04-27-2023					
SPECIFICATIONS							
SPECIFICATIONS							

SHEET #	SHEET NAME	#	DATE
C101	Civil		
	LANDSCAPE		
SHEET #	SHEET NAME	#	DATE
L101	Landscape		
	ARCHITECTURAL		
SHEET #	SHEET NAME	#	DATE
A101	SITE PLAN	2	06-14-2023
A102	EROSION CONTROL DETAILS		
A103	FOUNDATION PLAN		0/1/000
A104	LEVEL 1 FLOOR PLAN	2	06-14-2023
A105	LEVEL 2 FLOOR PLAN	1	04-27-2023
A110	ROOF PLAN	1	04-27-2023
A110	LEVEL 1 CEILING PLAN		
A111	LEVEL 2 CEILING PLAN	1	04.07.0003
A201 A202	EXTERIOR ELEVATIONS  EXTERIOR ELEVATIONS	1	04-27-2023
A301	BUILDING SECTIONS	1	04-27-2023
A302	BUILDING SECTIONS	1	04-27-2023
A401	FIREPLACE ELEVATIONS		04-27-2020
A501	ARCHITECTURAL DETAILS	1	04-27-2023
A502	ARCHITECTURAL DETAILS	- '	01272020
A503	STAIR/ RAIL DETAILS		
A601	DOOR SCHEDULE & ELEVATIONS		
A602	WINDOW SCHEDULE & DETAILS		
	MECHANICAL		
SHEET #	SHEET NAME	#	DATE
M101	MECHANICAL GENERAL NOTES		
M102	MECHANICAL PLAN		
	ELECTRICAL	,	'
SHEET #	SHEET NAME	#	DATE
F101	ELECTRICAL CENERAL MOTES		04.07.0000
E101 E102	ELECTRICAL GENERAL NOTES ELECTRICAL PLANS	1	04-27-2023

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Architecture

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Landscape Architecture
Land Planning
Construction Managemen

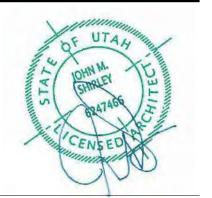
7927 So. Highpoint Parkway, Suite 300 Sandy, Utah 84094 ph. 801.269.0055 fax 801.269.1425 www.thinkaec.com

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SPRINGS RESIDENCE #32

PROJECT NC22023.32 DATE: 2023.06.30

REVISIONS:

1 04-27-2023 PER CITY
COMMENT

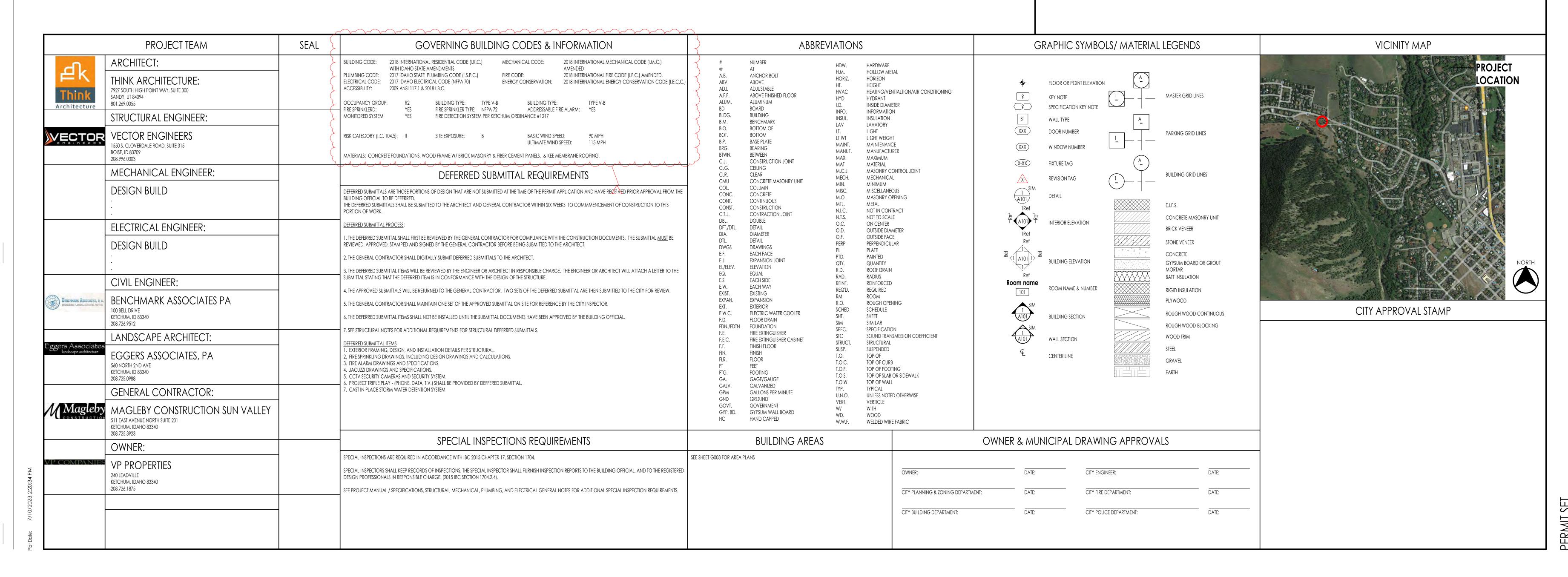
COMMENTS

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

COVER

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ASSEMBLY, APPLICATION, INSTALLATION, AND SIMILAR OPERATIONS, AS APPLICABLE IN EACH INSTANCE.

MEANS TO SUPPLY, PURCHASE, PROCURE AND DELIVER COMPLETE WITH RELATED ACCESSORIES, READY FOR

MEANS TO CONSTRUCT, ASSEMBLE, ERECT, MOUNT, ANCHOR, PLACE, CONNECT, APPLY AND SIMILAR OPERATIONS, COMPLETE WITH RELATED ACCESSORIES, AS APPLICABLE IN EACH INSTANCE.

d. EQUIVALENT: MEANS "EQUIVALENT AS ACCEPTED BY THE ARCHITECT." WITH RESPECT TO PRODUCTS, EQUIVALENT MEANS A LIKE DEGREE OF FEATURES, ATTRIBUTES, PERFORMANCES, OR QUALITIES DEEMED ESSENTIAL TO THE DESIGN INDICATED INSTEAD, THE TERM INTENDED TO MEAN ARCHITECT WILL CONSIDER SUBSTITUTION PROPOSALS FOR THE PRODUCT. DO NOT ASSUME THAT SUBSTITUTE PRODUCTS ARE ACCEPTABLE. SUBSTITUTIONS MADE BY THE CONTRACTOR WITHOUT FULL AND FINAL APPROVAL, MAY REQUIRE TO BE REMOVED IF NOT DEEMED ACCEPTABLE BY THE ARCHITECT. ALL COSTS ASSOCIATED TO REMOVAL OF SUBSTITUTION NOT APPROVED, AND INSTALLATION OF ACCEPTED PRODUCTS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL NOTES

G1. INTENT OF THE DOCUMENTS: DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE THE BASIS FOR THE PROPER COMPLETION OF THE PROJECT, SUITABLE FOR THE INTENDED USE OF THE OWNER, ITEMS NOT EXPRESSLY SET FORTH WITHIN THE DRAWINGS AND SPECS, BUT WHICH ARE REASONABLY IMPLIED FOR COMPLETION OF A COMPLETE SYSTEM, OR NECESSARY, FOR THE PROPER PERFORMANCE OF THE WORK SHALL BE INCLUDED.

G2. DRAWINGS AND SPECIFICATIONS:

SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY AND SUPPLEMENTAL TO THE DRAWINGS. NO RELATIVE IMPORTANCE OF DRAWINGS VERSUS SPECIFICATIONS HAS BEEN ESTABLISHED AND NONE SHOULD BE ASSUMED, BUT THE MOST STRINGENT CONDITIONS SHOULD BE ASSUMED FOR ALL BIDDING AND CONSTRUCTION REQUIREMENTS. IN THE EVENT OF DISCREPANCIES OR CONFLICTS, THE ARCHITECT SHALL BE CONSULTED IN ORDER TO RENDER AN INTERPRETATION.

BIDDING, PRICING OR CONSTRUCTION DONE PRIOR TO RECEIVING FINAL BUILDING DEPARTMENT PERMITS IS AT THE CONTRACTORS OWN RISK. CHANGES TO THE DRAWINGS MAY BE REQUIRED AS PART OF THE PLAN CHECK AND/ OR OWNER REVIEW PROCESS. THINK ARCHITECTURE INC. AND ITS CONSULTING ENGINEERS WILL NOT BE HELD LIABLE FOR, NOR COMPENSATE FOR, CHANGES TO THESE DRAWINGS BEFORE FINAL JURISDICTION AND OWNER APPROVAL IS OBTAINED.

G3. WORK NOT INCLUDED: ANY ITEM INDICATED ON THE DRAWINGS AS "N.I.C." (NOT IN CONTRACT), OR OTHERWISE DESIGNATED TO BE DONE BY OTHERS IS NOT A PART OF THE CONTRACT. INSTALLATION AND/OR BACKING MAY BE REQUIRED FOR SOME EQUIPMENT FURNISHED BY OWNER OR OWNER'S SUBCONTRACTOR. REFER TO DRAWINGS FOR SPECIFIC REQUIREMENTS.

G4. CONTRACT DOCUMENTS AT SITE:

THE CONTRACTOR SHALL MAINTAIN CURRENT PERMIT DRAWINGS; SHOP DRAWINGS; REVISED DRAWINGS; AND CLARIFICATION DRAWINGS, ADDENDA; CHANGE ORDERS; BULLETINS; INSPECTIONS; TEST CERTIFICATIONS AND RECORDS; PRODUCT SUBMITTAL DATA AND SAMPLES. FIELD OFFICE SHALL CONTAIN A CURRENT COPY OF ALL GOVERNING BUILDING CODE(S). MAKE DOCUMENTS AVAILABLE AT ALL TIMES FOR ARCHITECT'S REVIEW. ALL DRAWINGS MUST BE CLEARLY MARKED AS TO THE FINAL APPROVED DRAWINGS.

THE MAINTAIN ACCURATELY DIMENSIONED RECORDS OF ALL UNDERGROUND LINES, SERVICES, AND UTILITIES, AS WELL AS ANY DISCREPANCIES OR REQUIRED CHANGES IN THE CONTRACT DOCUMENTS. AT THE END OF THE PROJECT, FORWARD TO ARCHITECT FOR FUTURE RECORDS. ONE (1) CD OF COMPLETE RECORD DRAWINGS TO OWNER IN PDF FORMAT AFTER COMPLETING FINAL PUNCH LIST.

G6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES; DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES, PRIOR TO CONTINUING WITH WORK.

G7. FIELD CONFIRMATION OF DISCREPANCIES SHALL BE RECORDED ON REPRODUCIBLE DOCUMENT AND IMMEDIATELY TRANSMITTED TO ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

G8. FIFI D MEASUREMENTS VERIFY FIELD MEASUREMENTS BEFORE ORDERING MATERIALS AND PREFABRICATED ITEMS. ANY NECESSARY ADJUSTMENTS BETWEEN FIELD MEASUREMENTS AND DRAWINGS SHALL BE MADE IN CONSULTATION WITH THE

G9. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE BUILDING CODES, THE AMERICANS WITH DISABILITIES ACT, AS WELL AS ALL OTHER LOCAL GOVERNING CODES AND ORDINANCES.

G10. REFERENCE STANDARDS: COMPLY WITH ASSOCIATION, TRADE, FEDERAL, COMMERCIAL, ASTM, AND OTHER SIMILAR STANDARDS REFERENCED WITHIN INDIVIDUAL SECTIONS, EXCEPT WHERE MORE EXPLICIT OR STRINGENT REQUIREMENTS ARE INDICATED, OR REQUIRED BY APPLICABLE CODES. REFERENCE STANDARDS HAVE SAME FORCE AND EFFECT AS IF BOUND INTO CONTRACT DOCUMENTS. SHOULD SPECIFIED REFERENCE STANDARDS CONFLICT WITH CONTACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.

C1. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING SITE CONDITIONS, UTILITIES, CONNECTIONS, LOCATIONS, ETC, AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

C2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES AND ALL OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH C31. CUTTING AND PATCHING: EXECUTION OF WORK.

C3. CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING PROJECT CONDITIONS, INCLUDING DIMENSIONS, UTILITY LOCATIONS, AND UTILITY SIZES.

C4. THE CONTRACTOR SHALL BE REQUIRED TO MEET ALL NATIONAL, STATE AND LOCAL, AND RELATED CODES FOR STANDARD CONSTRUCTION PRACTICES.

C5. INSTALLATION STANDARDS: ALL MANUFACTURED MATERIALS AND PRODUCTS SHALL BE APPLIED, INSTALLED, CONNECTED, CLEANED AND

CONDITIONED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. ALL REFERENCES TO STANDARDS OR TO MANUFACTURER'S SPECIFICATIONS SHALL BE TO THE LATEST EDITIONS OR LATEST AMENDMENTS. C6. HOURS OF WORK:

ALL DEMOLITION, GRADING, AND CONSTRUCTION WORK SHALL BE LIMITED TO THE FOLLOWING HOURS: MONDAY THROUGH SATURDAY 7:00 AM TO 7:00 PM, OR AS REQUIRED BY THE RVMA AND SUMMIT COUNTY PLANNING AND ZONING. NO ACTIVITIES ON SUNDAY. AFTER-HOURS WORK WILL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE PERSONS/AGENCIES THAT HAVE JURISDICTION.

C7. TESTING AGENCIES: THE CONTRACTOR SHALL PROVIDE AND PAY FOR INSPECTIONS, TESTS, AND OTHER SERVICES SPECIFIED. refer to individual selections for additional requirements, employment of testing LABORATORY SHALL IN NO WAY RELIVE CONTRACTOR OF OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.

C8. PROJECT LOG: MAINTAIN DAILY LOG CONTAINING ALL INFORMATION REGARDING CONSTRUCTION OPERATIONS AND OTHER OCCURRENCES PERTAINING TO THE PROJECT. MAKE LOG AVAILABLE FOR ARCHITECT'S REVIEW.

C9. WORK PROGRESS SCHEDULE: MAINTAIN AN UPDATED WORK PROGRESS SCHEDULE POSTED IN A VISIBLE PLACE LOCATED IN FIELD OFFICE. UPDATE SCHEDULE DAILY TO REFLECT WORK PROGRESS.

C10. THE GENERAL BUILDING PERMITS SHALL BE PAID FOR BY THE OWNER AND SECURED BY THE GENERAL CONTRACTOR, ALL OTHER REQUIRED PERMITS SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR OR

SUBCONTRACTOR DIRECTLY RESPONSIBLE. C11. CONTRACTOR SHALL ASSIST OWNER IN OBTAINING FINAL APPROVAL OF LOCAL HEALTH DEPARTMENT AND THE TEMPORARY AND FINAL CERTIFICATES OF OCCUPANCY.

C12. ADDITIONAL REQUIRED CITY AND COUNTY LICENSES SHALL BE ACQUIRED AND PAID FOR BY THE INDIVIDUAL

C13. ALL CONTRACTORS SHALL HAVE VALID CERTIFICATES OF WORKMAN'S COMPENSATION OF FILE WITH THE

C14. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND

WORKERS AT ALL TIMES. PROVIDE AND MAINTAIN A FIELD OFFICE ON THE PREMISES WHERE DIRECTED. OFFICE SHALL BE OF NEAT, SUBSTANTIAL CONSTRUCTION, PROVIDE HANGING PLAN FILES AND MAINTAIN WITH ALL CURRENT

a. STORAGE STRUCTURE: PROVIDE AND MAINTAIN, WHERE DIRECTED, A WATERTIGHT STORAGE STRUCTURE FOR ALL MATERIALS WHICH MIGHT BE DAMAGED BY WEATHER, INCLUDING STORAGE FACILITIES FOR CONCRETE TEST SAMPLES, OR OTHER MATERIAL SAMPLES REQUIRED FOR WORK.

b. COSTS: PAY COSTS FOR A LOCAL BUSINESS TELEPHONE FOR USE BY CONTRACTOR, OWNER AND ARCHITECT THROUGHOUT CONTRACT PERIOD.

c. COMMUNICATION EQUIPMENT:

PROVIDE A TELEPHONE ON SITE. ASSIGN A RESPONSIBLE PERSON TO ANSWER ALL TELEPHONE CALLS IN EVENT THE SUPERINTENDENT IS ABSENT FROM THE PREMISES. PROVIDE APPROVED MEANS TO ESTABLISH URGENT COMMUNICATIONS (CELLULAR TELEPHONE OR PAGER).

C16. TEMPORARY FACILITIES: PROVIDE TEMPORARY FACILITIES AND CONNECTIONS AS REQUIRED FOR THE PROPER COMPLETION OF THE PROJECT, PROVIDE AND MAINTAIN TEMPORARY UTILITY SERVICES. PROVIDE SUITABLE WASTE DISPOSAL UNITS AND EMPTY REGULARLY. DO NOT PERMIT ACCUMULATION OF TRASH AND WASTE MATERIALS. PROVIDE TEMPORARY SANITARY FACILITIES AS REQUIRED.

C17. STORAGE AND PROTECTION: STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITH LABELS INTACT AND LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHERTIGHT, CLIMATE CONTROLLED ENCLOSURES. PROVIDE OFFSITE STORAGE AND PROTECTION WHEN SITE DOES NOT PERMIT ON SITE STORAGE.

C18. FIELD QUALITY CONTROL EMPLOY ONLY EXPERIENCED INSTALLERS AND FURNISH EVIDENCE OF EXPERIENCE IF REQUESTED, USE OF ANY SUBCONTRACTOR OR INSTALLER IS SUBJECT TO OWNER'S APPROVAL. EMPLOY FULL-TIME, COMPETENT SUPERINTENDENT AS WELL AS NECESSARY ASSISTANTS. SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR

AND ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE

TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DELIVER PRODUCTS IN UNDAMAGED CONDITION, IN MANUFACTURER'S ORIGINAL UNOPENED CONTAINER'S OR PACKING, WITH IDENTIFYING LABELS INTACT AND LEGIBLE. PROMPTLY INSPECT SHIPMENTS TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS OF CONTRACT DOCUMENTS, QUANTITIES ARE CORRECT, AND

C20. COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS: HANDLE, INSTALL, ERECT, CONNECT, CONDITION, USE, ADJUST, AND CLEAN PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTION AND IN CONFORMITY WITH SPECIFIED REQUIREMENTS, INCLUDING EACH STEP IN SEQUENCE, DO NOT OMIT PREPARATORY STEPS OR INSTALLATION PROCEDURES UNLESS SPECIFICALLY MODIFIED OR EXEMPTED BY CONTRACT DOCUMENTS, SHOULD JOB CONDITIONS OR SPECIFIED REQUIREMENTS CONFLICT WITH MANUFACTURER'S INSTRUCTIONS, REQUEST CLARIFICATION IN WRITING FROM ARCHITECT BEFORE PROCEEDING. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT

C21. MANUFACTURER'S FIELD SERVICES: WHEN SPECIFIED IN INDIVIDUAL SECTIONS, REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE QUALIFIED STAFF PERSONNEL TO OBSERVE SITE CONDITIONS, CONDITIONS OF SURFACES, QUALITY OF WORKMANSHIP, AND CONDITIONS OF INSTALLATION AS APPLICABLE AND TO INITIATE ADDITIONAL INSTRUCTIONS WHEN NECESSARY.

C22. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL WORK AND MATERIALS - INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.

C23. NON-CONFORMING WORK: REMOVE AND REPLACE WORK THAT DOES NOT CONFORM TO THE CONTRACT DOCUMENTS AT NO

CONSTRUCTION AND WITH PROPER APPEARANCE.

PRODUCTS ARE UNDAMAGED.

ADDITIONAL EXPENSE TO THE OWNER. C24. PRODUCT IDENTIFICATIONS: NAMEPLATES, TRADEMARKS, LOGOS, AND OTHER IDENTIFYING MARKS ON PRODUCTS ARE NOT PERMITTED ON SURFACES EXPOSED TO VIEW IN PUBLIC AREAS, INTERIOR OR EXTERIOR. PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT NOT EXPOSED TO PUBLIC VIEW ARE EXECUTED FROM FOREGOING LIMITATION.

REQUIRED UL OR FM LABELS ARE ALSO EXCLUDED. C25. PROTECTION OF ADJACENT WORK: PROVIDE TEMPORARY PROTECTION FOR ADJACENT AREAS TO PREVENT DAMAGE BY INSTALLATION OF NEW WORK OR DEMOLITION OF EXISTING CONSTRUCTION, PROMPTLY REPAIR ANY DAMAGE AT NO ADDITIONAL

COST TO THE OWNER. PROTECT ADJACENT AREAS FROM CONTAMINATION BY CONSTRUCTION DUST AND DEBRIS. PROVIDE TEMPORARY BARRICADES AS NECESSARY TO ENSURE PROTECTION OF THE PUBLIC. MAINTAIN EGRESS WITHIN AND AROUND CONSTRUCTION AREAS. C26. DAMAGED PRODUCTS:

RESTORED AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE FACILITIES TO PROTECT WORK FROM UNAUTHORIZED ENTRY, VANDALISM, AND THEFT. CONDUCT

DO NOT USE PRODUCTS IN WORK, WHICH HAVE DETERIORATED, BECOME DAMAGED, OR ARE OTHERWISE

UNFIT FOR USE. RESTORE UNITS DAMAGED DURING INSTALLATION. REPLACE UNITS, WHICH CANNOT BE

OPERATIONS IN MANNER TO AVOID RISK OF LOSS, THEFT, OR DAMAGE BY VANDALISM. C28. TEMPORARY CONTROLS:

PRIOR TO ENCLOSURE, PROVIDE HEATING AS NECESSARY TO PROTECT MATERIALS, PRODUCTS, AND FINISHES FROM DAMAGE DUE TO TEMPERATURE OR HUMIDITY. ENCLOSURE IS DEFINED AS STATE OF CONSTRUCTION WHEN EXTERIOR WALLS ARE ERECTED, DOORS AND WINDOWS ARE INSTALLED AND GLAZED, ROOF DECK AND ROOFING ARE COMPLETE, AND WHEN OTHER OPENINGS IN EXTERIOR ENVELOPE ARE EQUIPPED WITH TEMPORARY CLOSURES. EXCEPT WHERE INDICATED OTHERWISE IN INDIVIDUAL SPECIFICATION SECTIONS, MAINTAIN MINIMUM AMBIENT TEMPERATURE OF 50 DEGREES F. IN TO FRANCES. AREAS WHERE CONSTRUCTION IS IN PROGRESS.

VENTILATE ENCLOSED AREAS TO ASSIST CURE OF MATERIALS, TO DISSIPATE HUMIDITY, AND TO PREVENT ACCUMULATION OF DUST, FUMES, VAPORS, OR GASES.

c. BARRIERS AND CLOSURES: PROVIDE BARRIERS TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREAS AND TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM DAMAGE FROM CONSTRUCTION OPERATIONS.

d. FIRE PROTECTION: COMPLY WITH LOCAL FIRE PROTECTION CODE AND GOVERNING AUTHORITIES. PROVIDE AND MAINTAIN ADEQUATE FIRE PROTECTION INCLUDING, WITHOUT LIMITATION, FIRE EXTINGUISHERS AND OTHER APPROPRIATE EQUIPMENT FOR FIRE EXTINGUISHING READY FOR IMMEDIATE USE. MAINTAIN ANY REQUIRED FIRE ALARM SYSTEMS IN OPERATION DURING CONSTRUCTION. DISTRIBUTE EQUIPMENT AROUND SITE AND PARTICULARLY IN IMMEDIATE VICINITY OF PERFORMANCE OF WELDING OR SIMILAR

INTERRUPTIONS TO ANY SERVICE FOR THE PURPOSE OF MAKING OR BREAKING A CONNECTION SHALL BE MADE ONLY AFTER CONSULTATION WITH THE OWNER AND SHALL BE AT SUCH TIME AND OF SUCH DURATION AS MAY BE DIRECTED.

C30. EXCAVATIONS OR TRENCHING:

KEEP THE INTERVALS BETWEEN EXCAVATION OR TRENCHING, INSTALLATION OF CONDUIT OR PIPING, AND BACK FILLING OPERATIONS TO AN ABSOLUTE MINIMUM. PROVIDE SUITABLE TEMPORARY COVERS FOR EXCAVATIONS OR TRENCHING CROSSING ROADWAYS, WALKS, OR OTHER TRAFFIC WAYS AS REQUIRED BY GOVERNING AGENCIES.

do not cut and patch in a manner that would result in a failure of the work to perform as INTENDED, DECREASE FIRE PERFORMANCE, DECREASE ACOUSTICAL PERFORMANCE, DECREASE ENERGY PERFORMANCE, DECREASE OPERATIONAL LIFE, OR DECREASE SAFETY FACTORS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT. CUT WITH TOOLS APPROPRIATE FOR MATERIALS TO BE CUT. PATCH WITH MATERIALS AND METHODS TO PRODUCE PATCH THAT IS NOT VISIBLE FROM A DISTANCE OF THREE FEET.

C32. COORDINATION AND CLEARANCES: VERIFY AND COORDINATE CLEARANCES, DIMENSIONS, AND INSTALLATION OF ADJOINING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, CONDUITS, OR OTHER MECHANICAL OR ELECTRICAL ITEMS OR APPARATUS. VERIFY DIMENSIONS FOR PRODUCTS TO BE FITTED INTO WORK.

a. ATTACHMENTS AND CONNECTIONS: PROVIDE ATTACHMENT AND CONNECTION DEVICES METHODS FOR SECURING AND ANCHORING WORK. SECURE IN PLACE WITH DEVICES DESIGNATED AND SIZED TO WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION, OR DISFIGUREMENT.

b. EXPANSION AND MOVEMENT ALLOW FOR EXPANSION OF MATERIALS AND BUILDING MOVEMENT.

C. ISOLATION OF DISSIMILAR ITEMS: ISOLATE EACH UNIT OF WORK FROM INCOMPATIBLE WORK AS NECESSARY TO PREVENT DETERIORATION AND ELECTROLYTIC ACTION.

CLEAN AND PERFORM MAINTENANCE ON INSTALLED WORK AS FREQUENTLY AS NECESSARY THROUGH REMAINDER OF CONSTRUCTION PERIOD. LUBRICATE OPERABLE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.

e. ADJUSTMENTS ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE SMOOTH AND UNHINDERED OPERATION.

EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. DO NOT COMMENCE WORK OVER UNSATISFACTORY CONDITIONS DETRIMENTAL TO PROPER AND TIMELY EXECUTION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. COMMENCEMENT OF INSTALLATION CONSTITUTES ACCEPTANCE OF CONDITIONS AND COSTS OF ANY CORRECTIVE MEASURES ARE RESPONSIBILITY OF CONTRACTOR.

C34. CONTRACTOR SHALL PROVIDE BACKING SUPPORT OF ALL WALL, CEILING, AND PARTITION MOUNTED ITEMS SUCH AS TABLE BRACKETS, LIGHT FIXTURES, ARTIFACTS, SHELVING, EQUIPMENT, AND TELEVISIONS. COORDINATE LOCATIONS AND REQUIREMENTS WITH THE PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS.

C35. EXTERIOR OPENINGS SHALL COMPLY WITH ALL SECURITY REQUIREMENTS AS OUTLINED IN ALL LOCAL BUILDING CODES AND ORDINANCES. C36. GLASS AND GLAZING FOR ALL WINDOWS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES. IN

ADDITION ALL WINDOWS MUST MEET THE "AAMA" WINDOW STANDARDS FOR INSTALLATION. THE CONTRACTOR SHALL OBTAIN, AND SHALL FOLLOW ALL REQUIREMENTS OF THE "AAMA" STANDARDS IN ADDITION TO THE MANUFACTURER SPECIFICATIONS AND ARCHITECTURAL DETAILS INCLUDED WITHIN THE

C37. ROOFING WORK SHALL BE PERFORMED AND ALL PENETRATIONS THROUGH THE ROOFING MEMBRANE SHALL BE PATCHED OR FLASHED AS PER THE MANUFACTURER'S STANDARDS.

C38. ROOF OBSTRUCTIONS SUCH AS TELEVISION ANTENNAE, SOLAR PANELS, AND GUY WIRES SHALL NOT BE LOCATED OR INSTALLED IN SUCH A WAY AS TO PREVENT FIRE DEPARTMENT ACCESS OR EGRESS IN THE EVENT OF A FIRE.

C39. INTERIOR WALL AND CEILING FINISHES SHALL NOT EXCEED FLAME SPREAD CLASSIFICATIONS DICTATED BY ALL APPLICABLE BUILDING CODES.

C40. GYPSUM BOARD AND SUSPENDED CEILING SYSTEMS SHALL CONFORM TO ALL LOCAL GOVERNING BUILDING CODES AND ORDINANCES.

C41. PIPES, CONDUITS, OR DUCTS EXCEEDING ONE THIRD OF THE SLAB OR MEMBER THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS FOR LOCATION OF SLEEVES AND OTHER ACCESSORIES. C42. VERIFY FIRE EXTINGUISHER REQUIREMENTS AND LOCATIONS WITH FIRE MARSHAL AND OWNER'S REPRESENTATIVE.

C43. CONTRACTOR SHALL SEAL ALL GAPS, HOLES, AND CRACKS IN BUILDING CONSTRUCTION AS REQUIRED TO CONTROL INFILTRATION OF INSECTS.

C44. DISPOSAL OF TRASH AND EXCESS EXCAVATION: DISPOSE OF TRASH, AND DEBRIS AT DESIGNATED AREAS OFF THE PREMISES AT NO ADDITIONAL COST TO THE OWNER. BURNING OF TRASH AND DEBRIS ON THE PREMISES IS PROHIBITED. COORDINATE TRASH REMOVAL

WITH LANDLORD WHERE APPLICABLE. C45. ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEM ARE SCHEMATIC ONLY. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL WORK TO AVOID CONFLICTS BETWEEN TRADES. THE CONTRACTOR SHALL PERFORM ALL WORK TO PROVIDE COMPLETE FUNCTIONING SYSTEMS IN ACCORDANCE WITH THE INTENT INDICATED AND CODES AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION.

C46. CLEANING MATERIALS AND EQUIPMENT: PROVIDE ALL REQUIRED PERSONNEL, EQUIPMENT, AND MATERIALS NEEDED TO MAINTAIN THE SPECIFIED STANDARD OF CLEANLINESS. USE ONLY THE CLEANING MATERIALS AND EQUIPMENT WHICH ARE COMPATIBLE WITH THE SURFACE BEING CLEANED, AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL.

SUBMITTALS/SUBSTITUTIONS

\$1. CONTRACTOR SHALL PROVIDE COMPLETE LIST OF SUBMITTALS TO ARCHITECT/OWNER WITHIN 1 WEEK OF OBTAINING BUILDING PERMIT.

S2. ALL SUBMITTALS SHALL BE COMPLETE AND SUBMITTED WITHIN FIRST 90 DAYS OF WORK. S3. ALL ITEMS NOTED AS DESIGNED "BY MANUFACTURED" IS A DEFERRED DESIGN AND SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR FINAL DESIGN AND SUBMIT FINAL DESIGN

SIMILAR SERVICE FOR THREE YEARS, UNLESS MORE STRINGENT CRITERIA ARE SPECIFIED IN INDIVIDUAL

FOR APPROVAL. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL FIELD DIMENSIONS. S4. SOURCE QUALITY CONTROL: PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN

SECTIONS. USE OF ANY SUPPLIER IS SUBJECT TO OWNER'S APPROVAL.

PROPOSALS FOR SUBSTITUTION OF MATERIALS, EQUIPMENT, AND METHODS WILL ONLY BE CONSIDERED WHEN ACCOMPANIED BY FULL AND COMPLETE TECHNICAL DATA AS WELL AS ANY OTHER INFORMATION REQUIRED TO EVALUATE THE PROPOSED SUBSTITUTION. SUBSTITUTIONS ARE UNACCEPTABLE UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. IN THE EVENT OF SUBSTITUTION PROPOSALS AFTER THE CONTRACT HAS BEEN AWARDED, ALL SUCH PROPOSALS SHALL BE ACCOMPANIED BY SUBSTANTIAL COST SAVINGS FOR THE OWNER.

S6. AVAILABILITY OF PRODUCTS: VERIFY PRIOR TO CONSTRUCTION START THAT ALL SPECIFIED ITEMS WILL BE AVAILABLE IN TIME FOR INSTALLATION DURING ORDERLY AND TIMELY PROGRESS OF THE WORK. IN THE EVENT SPECIFIED ITEM OR ITEMS WILL NOT BE SO AVAILABLE, NOTIFY THE ARCHITECT PRIOR TO START OF CONSTRUCTION. COST OF DELAYS BECAUSE OF NON-AVAILABILITY OF SPECIFIED ITEMS OR SUBSTITUTED ITEMS, WHEN THE CONTRACTOR COULD HAVE AVOIDED SUCH DELAYS, WILL BE BORNE BY THE CONTRACTOR.

S7. PRODUCTS AND MATERIALS: PROVIDE PRODUCTS AND MATERIALS SPECIFIED. REQUEST ARCHITECTS SELECTION OF COLORS AND ACCESSORIES IN SUFFICIENT TIME TO AVOID DELAYING PROGRESS OF THE WORK.

INSTALL WORK TRUE TO LINE, PLUMB, AND LEVEL. EXCEPT WHERE SPECIFIED OTHERWISE, WORK EXECUTED WITHIN THE FOLLOWING TOLERANCE WILL BE ACCEPTABLE.

ALLOWED DEVIATION FROM AN ABSOLUTELY STRAIGHT LINE OF SIGHT WITHIN PLUS OR MINUS 1/8 INCH IN 10 FT. AND WITHIN PLUS OR MINUS 1/4 INCH FOR ENTIRE LENGTH OF A PARTICULAR ELEMENT OF CONSTRUCTION OVER 20'-0" IN LENGTH.

ALLOWED DEVIATIONS FROM AN ABSOLUTELY VERTICAL PLANE OF PLUS OR MINUS 1/8 INCH IN 10 FT. AND WITHIN PLUS OR MINUS 1/4 INCH FOR ENTIRE LENGTH OF A PARTICULAR ELEMENT OF CONSTRUCTION OVER 20'-0" IN LENGTH.

ALLOWED DEVIATIONS FROM AN ABSOLUTELY HORIZONTAL PLANE OF PLUS OR MINUS 1/8 INCH IN 10 FT. AND WITHIN PLUS OR MINUS 1/4 INCH FOR ENTIRE LENGTH OF A PARTICULAR ELEMENT OF CONSTRUCTION OVER 20'-0" IN LENGTH.

d. ALLOWED DEVIATIONS FROM AN ABSOLUTELY FLAT IF WITHIN PLUS OR MINUS 1/16 INCH IN ONE SQUARE FOOT, WITHIN PLUS OR MINUS 1/8 INCH IN AN AREA 10 FEET BY 10 FEET, AND WITHIN PLUS OR MINUS 1/4 INCH FOR ENTIRE AREA OF A PARTICULAR ELEMENT OF CONSTRUCTION OVER 20'-0" IN LENGTH.

T2. REFER TO SPECIFICATIONS FOR ADDITIONAL TOLERANCE REQUIREMENTS. PROJECT CONTRACT CLOSEOUT:

> a. SUBSTANTIAL COMPLETION: AT SUBSTANTIAL COMPLETION OF THE PROJECT, SCHEDULE AND ATTEND A PUNCH LIST WALK THROUGH OF REMAINING WORK FOR REVIEW WITH THE ARCHITECT AND OWNER. COMPLETE ALL DEFECTS AND OMISSIONS NOTED IN THE FINAL PUNCHLIST PROMPTLY, IN THE TIME PERIOD AGREED UPON WITH THE OWNER, AT NO ADDITIONAL EXPENSE TO THE OWNER.

b. CERTIFICATE OF OCCUPANCY: PROVIDE THE FINAL CERTIFICATE OF OCCUPANCY FROM THE BUILDING DEPARTMENT.

c. PERMITS/INSPECTION CARDS: FURNISH COPIES OF PERMITS AND SIGNED INSPECTION CARDS FOR EACH OF THE FOLLOWING AGENCIES: BUILDING DEPARTMENT; PLUMBING/MECHANICAL DEPARTMENT; ELECTRICAL DEPARTMENT; FIRE DEPARTMENT; HEALTH DEPARTMENT; OTHERS AS REQUIRED.

d. FURNISH COPIES OF PERMITS AND SIGNED INSPECTION CARDS FOR EACH OF THE FOLLOWING AGENCIES: BUILDING DEPARTMENT; PLUMBING/MECHANICAL DEPARTMENT; ELECTRICAL DEPARTMENT; FIRE DEPARTMENT; HEALTH DEPARTMENT; OTHERS AS REQUIRED. e. MAINTENANCE MANUALS AND WARRANTIES:

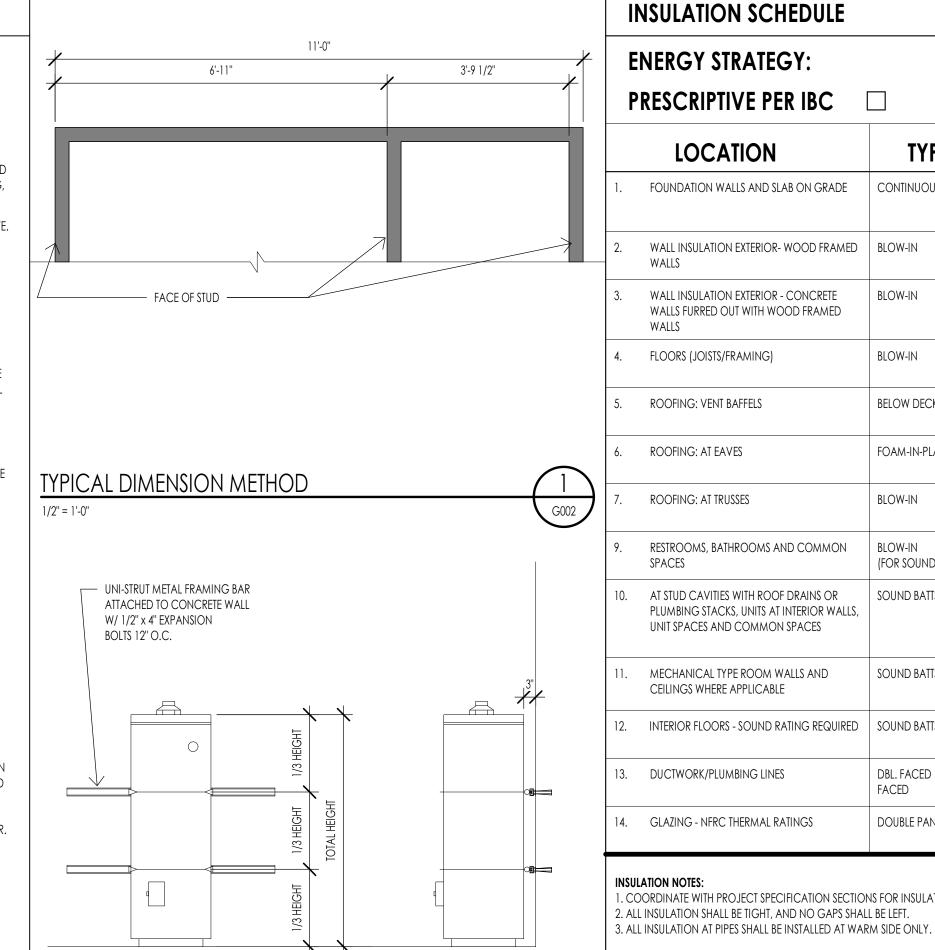
FURNISH (2) COPIES FOR EACH UNIT OF ALL MANUALS, MAINTENANCE INSTRUCTIONS, CONTRACTORS AND MANUFACTURER'S PRINTED WARRANTIES, AND INSTRUCTIONS FOR OPERATION OF ALL EQUIPMENT SPECIFIED HEREIN OR SHOWN ON DRAWINGS, TRAIN OWNER'S PERSONNEL IN USE OF BUILDING SYSTEMS. f. TOUCH-UP MATERIAL:

FURNISH OWNER WITH ONE GALLON OF EACH PAINT AND STAIN USED PER UNIT. PROVIDE AN ADDITIONAL 2 PERCENT OF QUANTITY INSTALLED OF ALL FINISH MATERIAL INCLUDING CEILING PANELS, TILE, AND SHEET GOODS.

PROVIDE THE OWNER THE NAMES, ADDRESSES, AND PHONE NUMBERS OF ALL SUBCONTRACTORS, FINAL UNCONDITIONAL LIEN RELEASES, AND WARRANTIES FROM EACH.

h. FINAL CLEANING AND REPAIRS: REMOVE TEMPORARY FACILITIES AND PROVIDE FINAL CLEANING AND TOUCH-UP. RESTORE PORTIONS OF BUILDING, SITE IMPROVEMENTS, LANDSCAPING AND OTHER ITEMS DAMAGED BY CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE ARCHITECT, AT NO ADDITIONAL EXPENSE TO THE OWNER.

i. CLOSEOUT DOCUMENTS: PROVIDE THE OWNER WITH A COMPACT DISK OF ALL RECORD DRAWINGS IN PDF FORMAT, COPY OF ALL SHOP DRAWINGS AND PRODUCT SUBMITTALS, SERVICE CONTRACTS, HVAC AIR BALANCE REPORT, AND WASTELINE VIDEO INSPECTION REPORT.



WATER HEATER SIESMIC STRAPPING

FRONT VIEW



**ENERGY STRATEGY:** 

PRESCRIPTIVE PER IBC RESCHECK - 2015 IECC ⊠ LOCATION **THICKNESS** REMARKS FOUNDATION WALLS AND SLAB ON GRADE CONTINUOUS RIGID OWENS CORNING FORMULAR CW15/CW25 PLUS INSULATION GLUED TO INSIDE OF 2" TOTAL THICKNESS -2' BELOW GRADE FOUNDATION WALL OR CAST IN PLACE BELOW SLAB CONTINUOUS BELOW SLAB 5-1/2" TOTAL THICKNESS R-21 WALL INSULATION EXTERIOR- WOOD FRAMED | BLOW-IN JOHNS MANVILLE SPIDER® PLUS FORMALDEHYDE-FREETM BLOW-IN FIBERGLASS INSULATION WALL INSULATION EXTERIOR - CONCRETE 5-1/2" TOTAL THICKNESS R-21 JOHNS MANVILLE SPIDER® PLUS FORMALDEHYDE-FREE™ BLOW-IN FIBERGLASS INSULATION 3-1/2" TOTAL THICKNESS R-14.7 WALLS FURRED OUT WITH WOOD FRAMED

FLOORS (JOISTS/FRAMING) BLOW-IN R-42 JOHNS MANVILLE **SPIDER® PLUS FORMALDEHYDE-FREE™** BLOW-IN FIBERGLASS INSULATION ROOFING: VENT BAFFELS **BELOW DECK** 1" - TOTAL THICKNESS FLAME RETARDANT PVC, EXTEND A MINIMUM OF 48" ABOVE EAVES ROOFING: AT EAVES 1" - TOTAL THICKNESS R-6.8 FOAM-IN-PLACE JOHNS MANVILLE CORBOND® MCS CLOSED-CELL SPRAY FOAM INSULATION ROOFING: AT TRUSSES **BLOW-IN** DEPTH REQUIRED TO MEET | R-50 JOHNS MANVILLE **CLIMATE PRO® FORMALDEHYDE-FREE™** BLOW-IN FIBERGLASS INSULATION R-VALUE RESTROOMS, BATHROOMS AND COMMON BLOW-IN FILL CAVITIES JOHNS MANVILLE **SPIDER® PLUS FORMALDEHYDE-FREE™** BLOW-IN FIBERGLASS INSULATION (FOR SOUND) SOUND BATTS FILL VOIDS AT STUD CAVITIES WITH ROOF DRAINS OR JOHNS MANVILLE **SPIDER® PLUS FORMALDEHYDE-FREE™** BLOW-IN FIBERGLASS INSULATION PLUMBING STACKS, UNITS AT INTERIOR WALLS, UNIT SPACES AND COMMON SPACES MECHANICAL TYPE ROOM WALLS AND SOUND BATTS FILL CAVITY JOHNS MANVILLE SPIDER® PLUS FORMALDEHYDE-FREE™ BLOW-IN FIBERGLASS INSULATION CEILINGS WHERE APPLICABLE INTERIOR FLOORS - SOUND RATING REQUIRED SOUND BATTS FILL CAVITY JOHNS MANVILLE SPIDER® PLUS FORMALDEHYDE-FREE™ BLOW-IN FIBERGLASS INSULATION DUCTWORK/PLUMBING LINES DBL. FACED 1/2" VINYL SEE MECHANICAL AND PLUMBING - FOR ALL INSULATION REQUIREMENTS 14. GLAZING - NFRC THERMAL RATINGS DOUBLE PANE MAX U-FACTOR: 0.32 ALUMINUM CLAD WOOD MAX SHGC: 0.16

INSULATION NOTES:

SIDE VIEW

1. COORDINATE WITH PROJECT SPECIFICATION SECTIONS FOR INSULATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 2. ALL INSULATION SHALL BE TIGHT, AND NO GAPS SHALL BE LEFT.

PROVIDE SEALING OF THE BUILDING THERMAL ENVELOPE FOR LEAKAGE BY THE REQUIREMENTS BELOW:

(A) BLOWER DOOR TEST FOR BUIDLING ENVELOPE AT FINAL WITH A MAXIMUM AIR LEAKAGE OF 5 AIR CHANGES PER HOUR. TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. 1. AIR BARRIER TO BE PERFORMED WITH "AEROBARRIER" ENVELOPE SEALING TECHNOLOGY 2. TO BE PERFORMED AFTER DRYWALL INSTALATION AND MUD AND TAPE.

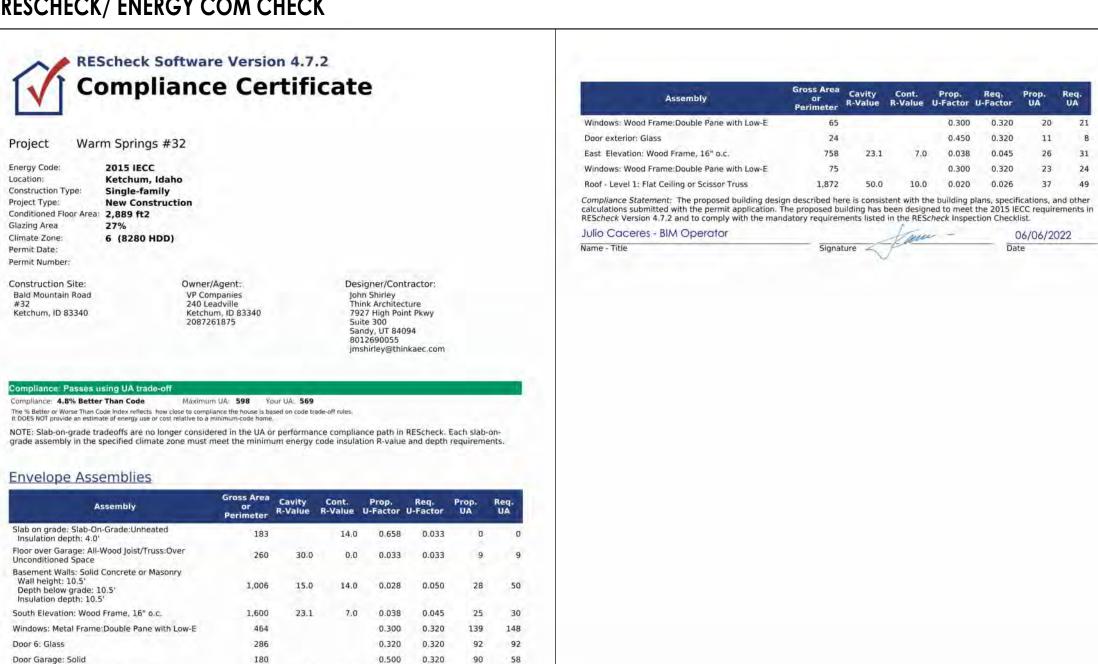
3. CONTRACTOR TO VERIFY NO WALL OPENINGS GREATER THAN 1/2" PRIOR TO INSTALATION OF ENVELOPE SEALING.

# **RESCHECK/ ENERGY COM CHECK**

West Elevation: Wood Frame, 16" o.c.

North Elevation: Wood Frame, 16" o.c.

Windows: Metal Frame: Double Pane with Low-E



0.300 0.320 25 26

594 23.1 7.0 0.038 0.045 19 23

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**REVISIONS:** 

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Architecture

Landscape Architecture

Construction Managemen

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Interior Design

Land Planning

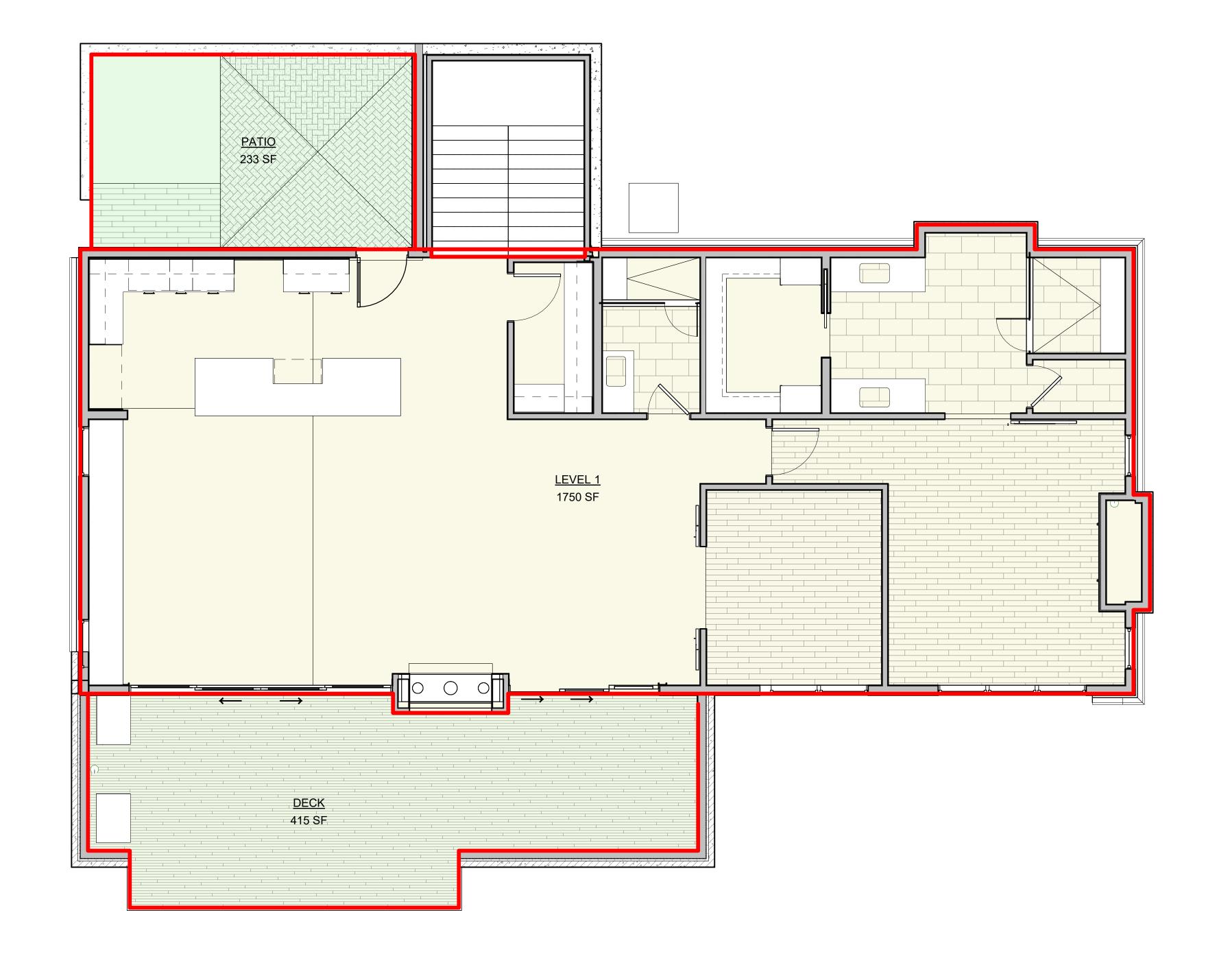
GENERAL NOTES

SHEET NUMBER:

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AREA PLAN LEVEL 1

1/4" = 1'-0"



AREA PLAN LEVEL 2

1/4" = 1'-0"

WARM SPRINGS RESIDENCE #32

Architecture

Architecture
Interior Design
Landscape Architecture

Construction Management

7927 So. Highpoint Parkway, Suite 300 Sandy, Utah 84094 ph. 801.269.0055 fax 801.269.1425 www.thinkaec.com

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Land Planning

PROJECT NC22023.32 2023.06.30

DATE: REVISIONS:

SHEET TITLE:
BUILDING AREA
ANALYSIS
SHEET NUMBER:
G003

BUILDING AREA - FINISHED FINISHED AREA 1183 SF 1750 SF 2933 SF BUILDING AREA - UNFINISHED GARAGE/ MECH BUILDING AREA - TOTAL 3759 SF EXTERIOR AREA

IRC 106.4 ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, AND ANY CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RESUBMITTED FOR APPROVAL AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS. THE CONTRACTOR/OWNER SHALL BE RESPONSIBLE TO SUBMIT THE CHANGES TO THE BUILDING DEPARTMENT, OR WORK WITH ALL ITEMS RELATED TO OPERATION OF ALL EQUIPMENT. THE ARCHITECT TO RE-SUBMITT THE PLANS TO THE BUILDING DEPARTMENT FOR APPROVAL.

THE CONSTRUCTION DOCUMENTS INCORPORATE BOTH THE PLANS AND SPECIFICATIONS FOR THE PROJECT. THE INCLUDED DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED A WHOLE SET OF DRAWINGS. ALL ITEMS REQUIRED FOR CONSTRUCTION MAY BE SHOWN EITHER IN DRAWINGS AND/OR SPECIFICATIONS. REQUIRED ITEMS MAY APPEAR IN WORKING DRAWINGS AND SPECIFICATIONS WHETHER GRAPHIC OR WRITTEN FORM, SO LONG AS THEY DO APPEAR SOMEPLACE AND ARE NOT CONTRADICTORY WITH OTHER PORTIONS OF THE DRAWINGS AND SPECIFICATIONS. NO FRAGMENT OF THE PLANS AND SPECS TAKE PRECEDENCE OVER OTHER FRAGMENTS. THE DOCUMENTS MUST BE CONSIDERED AS A WHOLE. IF A CONFLICT OR CONTRADITION DOES OCCUR, THE MOST STINGENT APPLICATION OR SPECIFICATION APPLIES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS, UTILITIES, MEASUREMENTS, CONNECTIONS, ETC.

THE CONTRACTOR SHALL COMPLY WITH ALL NATIONAL, STATE, LOCAL, AND RELATED CODES AND STANDARD CONSTRUCTION PRACTICES.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL ENERGY NOTES AND/OR MODEL ENERGY CODE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE PLANS TO THE ARCHITECT PRIOR TO COMMENCING RELATED

AN APPROVED NUMBER OR ADDRESS SHALL BE PROVIDED FOR ALL NEW BUILDINGS IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SEE I.R.C. SECTION R319.

THUNDER SPRING RESIDENCES: UNITS A.1 & A.2 ADDRESS: 126 SADDLE ROAD, KETCHUM, IDAHO, 83340 OWNER: VP COMPANIES

THE PROJECT SHALL INCLUDE THE CONSTRUCTION OF NINE SINGLE FAMILY HOMES AND TWO-FAMILY DWELLINGS. THE CONSTRUCTION SHALL BE OF CONCRETE FOUNDATION WITH WOOD AND STEEL CONSTRUCTION. PHASED CONSTRUCTION:

NEW CONSTRUCTION: CONTRACTOR SHALL HAVE USE OF PROJECT SITE FOR CONSTRUCTION OPERATIONS DURING CONSTRUCTION PERIOD. ALL STORAGE MUST BE MAINTAINED ON SITE, AND SHALL NOT DISTURB PROPERTY OUTSIDE OF PROPERTY LINES, UNLESS APPROVED BY THE CITY AND OWNER.

### 01-02 ALLOWANCES

CONTRACTOR SHALL PROVIDE LUMP SUM ALLOWANCES FOR THOSE ITEMS INDICATED ON PLANS, SCHEDULES OR ITEMS REQUIRING ADDITIONAL DETAIL OR SELECTION, LUMP SUM SHALL BE INCLUDED WITHIN SCHEDULE OF VALUES.

USE OF THE CONTINGENCY ALLOWANCE SHALL ONLY BE AS DIRECTED BY ARCHITECT FOR OWNER'S PURPOSES AND ONLY BY CHANGE ORDERS THAT INDICATE AMOUNTS TO BE CHARGED TO THE ALLOWANCE.

CONTRACTOR'S OVERHEAD. PROFIT. AND RELATED COSTS FOR PRODUCTS AND EQUIPMENT ORDERED BY OWNER UNDER THE CONTINGENCY ALLOWANCE ARE INCLUDED IN THE ALLOWANCE AND ARE NOT PART OF THE CONTRACT SUM. CHANGE ORDERS AUTHORIZING USE OF FUNDS FROM THE CONTINGENCY ALLOWANCE WILL INCLUDE CONTRACTOR'S 'ELATED COSTS FOR WORK SPECIFIED WITHIN THE CHANGE ORDER. PROFIT AND OVERHEAD OF THE CONTRACTOR SHA EQUAL PROJECT PROFIT AND OVERHEAD FOR PROJECT.

AT PROJECT CLOSEOUT, CREDIT ALL UNUSED AMOUNTS REMAINING IN THE CONTINGENCY ALLOWANCE TO OWNER BY

CONTRACTOR SHALL PROVIDE SCHEDULE OF ALL ALLOWANCES AS A PART OF BIDDING FOR OWNER AND ARCHITECT TO

## 01-03 ALTERNATES

ALTERNATES MAY BE INCLUDED ON THE DRAWINGS, AND SHOULD BE SEPARATED DURING THE BIDDING PROCESS. THE CONTRACTOR MAY ALSO SUBMIT REQUEST FOR ALTERNATES DURING BIDDING. ALL ALTERNATES MAY BE ACCEPTED AFTER REVIEW OF ALTERNATE WITH THE OWNER, AND THE CONTRACTOR WILL BE NOTIFIED IF AN ALTERNATE IS TO BE ACCEPTED OR NOT. THE CONTRACTOR SHALL NOT ASSUME THAT ALTERNATES ARE ACCEPTED, UNLESS NOTIFIED BY THE ARCHITECT THROUGH ADDENDUM, ASI, OR PROPOSAL REQUEST OF ACCEPTANCE OF THE ALTERNATE. ALL ALTERNATE WORK MAY BE ADDED TO OR DEDUCTED FROM THE BASE BID BY CHANGE ORDER IN THE AMOUNT OF THE ADDITIONAL COSTS OR SAVINGS, IF OWNER DECIDES TO ACCEPT THE ALTERNATE BID.

1. ALTERNATES DESCRIBED IN THIS SECTION ARE PART OF THE WORK ONLY IF ENUMERATED IN THE AGREEMENT.

2. THE COST OR CREDIT FOR EACH ALTERNATE IS THE NET ADDITION TO OR DEDUCTION FROM THE CONTRACT SUM TO INCORPORATE ALTERNATE INTO THE WORK. NO OTHER ADJUSTMENTS ARE MADE TO THE CONTRACT SUM.

3. ALTERNATES PROPOSED BY THE CONTRACTOR DURING BIDDING, MUST NOT BE SHOWN AS THE BASE BID FOR THE PROJECT. ALL BASE BIDS MUST BE THOSE ITEMS SPECIFIED ON THE DRAWINGS, AND ALL ALTERNATES PROPOSED BY THE CONTRACTOR MUST BE OUTSIDE OF THE REQUIRED NUMBER OF BASE BIDS FOR EACH DISCIPLINE. THE ALTERNATE MAY BE

# 01-04 SUBSTITUTION PROCEDURES

ALL CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE REQUIRED BY THE CONTRACT DOCUMENTS AND PROPOSED BY CONTRACTOR, SHALL BE APPROVED BY THE ARCHITECT, ENGINEER AND BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

SUBMIT THREE COPIES OF EACH REQUEST FOR CONSIDERATION BY ARCHITECT AND OWNER. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED.

SHOW COMPLIANCE WITH REQUIREMENTS FOR SUBSTITUTIONS INCLUDING THE FOLLOWING;

A. STATEMENT INDICATING WHY SPECIFIED PRODUCT OR FABRICATION OR INSTALLATION CANNOT BE PROVIDED, IF

B. PRODUCT DATA, INCLUDING DRAWINGS AND DESCRIPTIONS OF PRODUCTS AND FABRICATION AND INSTALLATION

C. SAMPLES, WHERE APPLICABLE OR REQUESTED.

D. DETAILED COMPARISON OF CONTRACTOR'S CONSTRUCTION SCHEDULE USING PROPOSED SUBSTITUTION WITH PRODUCTS SPECIFIED FOR THE WORK.

E. COST INFORMATION, INCLUDING A PROPOSAL OF CHANGE, IF ANY, IN THE CONTRACT SUM.

ARCHITECT WILL REQUEST ADDITIONAL INFORMATION IF NEEDED TO QUALIFY DOCUMENTATION FOR EVALUATION. ARCHITECT WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTION IN WRITING. THE CONTRACTOR SHALL NOT INCLUDE PROPOSED SUBSTITUTIONS IN BIDS OR COSTS UNTIL ACCEPTANCE OF SUBSTITUTION BY

# 01-05 PAYMENT PROCEDURES

DATE OF SUBMITTAL

SUBMIT THE SCHEDULE OF VALUES WITH UPDATED CONSTRUCTION SCHEDULE TO ARCHITECT AT EARLIEST POSSIBLE DATE

INCLUDE THE FOLLOWING IDENTIFICATION ON THE SCHEDULE OF VALUES:

BUT NO LATER THAN SEVEN DAYS BEFORE THE DATE SCHEDULED FOR PAYMENT APPLICATION.

PROJECT NAME AND LOCATION. NAME OF ARCHITECT. CONTRACTOR'S NAME AND ADDRESS.

arrange Schedule of Values Consistent with format of aia document G703. Provide a separate line item in THE SCHEDULE OF VALUES FOR EACH PART OF THE WORK WHERE APPLICATIONS FOR PAYMENT MAY INCLUDE MATERIALS OR EQUIPMENT PURCHASED OR FABRICATED AND STORED, BUT NOT YET INSTALLED. JPDATE AND RESUBMIT THE SCHEDULE OF VALUES BEFORE THE NEXT APPLICATIONS FOR PAYMENT WHEN CHANGE ORDERS OR CONSTRUCTION CHANGE DIRECTIVES RESULT IN A CHANGE IN THE CONTRACT SUM.

EACH APPLICATION FOR PAYMENT SHALL BE CONSISTENT WITH PREVIOUS APPLICATIONS AND PAYMENTS AS CERTIFIED BY ARCHITECT AND PAID FOR BY OWNER.

EACH APPLICATION FOR PAYMENT, SUBMIT WAIVERS OF MECHANIC'S LIEN FROM ENTITIES LAWFULLY ENTITLED TO FILE A MECHANIC'S LIEN ARISING OUT OF THE CONTRACT AND RELATED TO THE WORK COVERED BY THE PAYMENT. SUBMIT PARTIAL WAIVERS ON EACH ITEM FOR AMOUNT REQUESTED IN PREVIOUS APPLICATION, ON EACH ITEM, WHEN AN APPLICATION SHOWS COMPLETION OF AN ITEM. SUBMIT CONDITIONAL FINAL OR FULL WAIVERS, WAIVER FORMS: SUBMIT

#### WAIVERS OF LIEN ON FORMS, EXECUTED IN A MANNER ACCEPTABLE TO OWNER. 01-06 TEMPORARY TREE AND PLANT PROTECTION

CONTRACTOR SHALL REVIEW PLANS WITH SITE AND MARK ALL TREES IDENTIFIED ON THE DRAWINGS TO BE PROTECTED AND REMAIN DURING CONSTRUCTION.

THE CONTRACTOR AND ARCHITECT SHALL REVIEW THE MITIGATION WITH THE CITY PRIOR TO COMMENCING CONSTRUCTION, AND SHALL RECEIVE APPROVAL FROM THE CITY.

BE INSTALLED AT DIAMETER TO MATCH DRIP LINE OF TREE.

CONTRACTOR, ARCHITECT AND OWNER SHALL REVIEW ON SITE AFTER TREES HAVE BEEN MARKED AND PRIOR TO STAKING.

PROVIDE 6'-0" HIGH FENCING AROUND TREE. FENCING SHALL BE INSTALLED TO PROVIDE PROTECTION TO TREE AND SHALL

# 01-07 OPERATION AND MAINTENANCE DATA

HE CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL OPERATION MANUALS, WARRANTY INFORMATION, ETC. FOR ALL EQUIPMENT, APPLIANCES, ETC. AT THE COMPLETION OF THE PROJECT.

ALL INFORMATION SHALL BE COLLECTED AND PLACED IN BINDER AND OR DIGITAL DATA FOR THE OWNER TO REVIEW. CONTRACTOR SHALL PROVIDE START UP AND MAINTENANCE REVIEW WITH OWNER PRIOR TO FINAL PAYMENT. THE CONTRACTOR SHALL SCHEDULE A TIME TO REVIEW AND TRAIN THE OWNER AND/OR OWNER'S REPRESENTATIVES ON

### 01-08 WARRANTY

the contractor shall provide the owner with a written warranty covering workmanship, material, etc. ON THE PROJECT FOR A PERIOD OF (1) YEAR FROM COMPLETION. A WRITTEN WARRANTY SHALL BE PROVIDED (FROM VENDORS) ON ALL MATERIALS THAT HAVE EXTENDED WARRANTY PERIODS ABOVE THOSE STATED ABOVE. SUCH AS ROOFING MATERIALS WHICH SHALL PROVIDE A WARRANTY FOR MATERIALS FOR A MINIMUM OF 20 YEARS.

# 01-09 SUBMITTALS

EQUIREMENTS FOR THE SUBMITTAL PROCEDURAL REQUIREMENTS FOR SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SUBMITTALS REQUIRED BY SPECIFICATIONS FOR ARCHITECT/OWNER REVIEW AND APPROVAL PRIOR TO INSTALLATION WITHIN PROJECT.

ELECTRONIC DIGITAL DATA FILES OF THE CONTRACT DRAWINGS WILL NOT BE PROVIDED BY ARCHITECT FOR CONTRACTOR'S USE IN PREPARING SUBMITTALS.

"CONTRACTOR (EACH SUBCONTRACTOR) SHALL BE SOLELY RESPONSIBLE AND ASSUMES FULL LIABILITY FOR ENSURING THAT CONSTRUCTION JOINTS: INSTALL SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED SUBMITTALS ARE TIMELY PROVIDED TO THE ARCHITECT, AND THE CONTENT THEREOF COMPLIES IN FULL, AND IS PROVIDED IN ACCORDANCE, WITH THE DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE CONTRACTOR (SUBCONTRACTOR) HEREBY AGREES TO HOLD HARMLESS THE ARCHITECT, ITS OFFICERS, EMPLOYEES, AGENTS AND CONSULTANTS FROM FAILURE TO COMPLY WITH THIS PROVISION. CONTRACTOR FURTHER AGREES TO DEFEND AND INDEMNIFY ARCHITECT, ITS OFFICERS, EMPLOYEES, AGENTS AND CONSULTANTS FOR ANY AND ALL INJURIES, DAMAGES AND LIABILITY RESULTING FROM A BREACH HEREOF."

COORDINATE EACH SUBMITTAL WITH FABRICATION, PURCHASING, TESTING, DELIVERY, OTHER SUBMITTALS, AND RELATED ACTIVITIES THAT REQUIRE SEQUENTIAL ACTIVITY. SUBMITTALS THAT REQUIRE CONCURRENT REVIEW SHOULD BE SO INDICATED IN THOSE SECTIONS. ARCHITECT RESERVES THE RIGHT TO WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL RELATED SUBMITTALS ARE RECEIVED.

ALLOW TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR RESUBMITTALS. TIME FOR REVIEW SHALL COMMENCE ON ARCHITECT'S RECEIPT OF SUBMITTAL. NO EXTENSION OF THE CONTRACT TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS ENOUGH IN ADVANCE OF THE WORK TO PERMIT PROCESSING, INCLUDING RESUBMITTALS.

INITIAL REVIEW: ALLOW 14 DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL. RESUBMITTAL REVIEW: ALLOW 14 DAYS FOR REVIEW OF EACH RESUBMITTAL.

SEQUENTIAL REVIEW: WHERE SEQUENTIAL REVIEW OF SUBMITTALS BY ARCHITECT'S CONSULTANTS, OWNER, OR OTHER PARTIES IS REQUIRED.

ALLOW 14 DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL.

ELECTRONIC SUBMITTALS WILL BE ACCEPTED, BUT MUST BE COMPLETE AND MUST BE INCLUDED INTO SINGLE DIGITAL (PDF FORMAT) FILE. THE FILE MUST PROVIDE MEANS FOR INSERTION TO PERMANENTLY RECORD CONTRACTOR'S REVIEW AND APPROVAL MARKINGS AND ACTION TAKEN BY ARCHITECT.

DISTRIBUTION: FURNISH COPIES OF FINAL SUBMITTALS TO MANUFACTURERS, SUBCONTRACTORS, SUPPLIERS, FABRICATORS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHERS AS NECESSARY FOR PERFORMANCE OF CONSTRUCTION ACTIVITIES. SHOW DISTRIBUTION ON TRANSMITTAL FORMS.

USE FOR CONSTRUCTION: RETAIN COMPLETE COPIES OF SUBMITTALS ON PROJECT SITE. USE ONLY FINAL ACTION SUBMITTALS THAT ARE MARKED WITH APPROVAL NOTATION FROM ARCHITECT'S ACTION STAMP.

GENERAL SUBMITTAL PROCEDURE REQUIREMENTS: PREPARE AND SUBMIT SUBMITTALS REQUIRED BY INDIVIDUA PECIFICATION SECTIONS. TYPES OF SUBMITTALS, (PRODUCT, SAMPLE OR SHOP DRAWINGS) ARE INDICATED IN INDIVIDUAL SPECIFICATION SECTIONS, PROVIDE A MINIMUM OF TWO COPIES OF EACH SUBMITTAL, ONE COPY WILL BE RETAINED BY ARCHITECT, AND ONE COPY RETURNED TO CONTRACTOR.

ARCHITECT WILL RETURN AN ANNOTATED FILE AND RETAIN ONE COPY OF FILE AS AN ELECTRONIC PROJECT RECORD

SUBMIT TWO PAPER COPIES OF EACH SUBMITTAL UNLESS OTHERWISE INDICATED. ARCHITECT WILL RETURN TWO COPIES.

B. INFORMATIONAL SUBMITTALS SUBMIT TWO PAPER COPIE(S) OF EACH SUBMITTAL UNLESS OTHERWISE INDICATED.

C. CERTIFICATES AND CERTIFICATIONS SUBMITTALS: PROVIDE A STATEMENT THAT INCLUDES SIGNATURE OF ENTITY RESPONSIBLE FOR PREPARING CERTIFICATION. CERTIFICATES AND CERTIFICATIONS SHALL BE SIGNED BY AN OFFICER OR OTHER INDIVIDUAL AUTHORIZED TO SIGN OCUMENTS ON BEHALF OF THAT ENTITY.

PREPARE PROJECT-SPECIFIC INFORMATION, DRAWN ACCURATELY TO SCALE. DO NOT BASE SHOP DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA, UNLESS SUBMITTAL BASED ON ARCHITECT'S DIGITAL DATA DRAWING FILES IS OTHERWISE PERMITTED.

SUBMIT SHOP DRAWINGS IN THE FOLLOWING FORMAT:

PDF FLECTRONIC FILE (OR) TWO OPAQUE (BOND) COPIES OF EACH SUBMITTAL. ARCHITECT WILL RETURN ONE COPY.

SUBMIT SAMPLES FOR REVIEW OF KIND, COLOR, PATTERN, AND TEXTURE FOR A CHECK OF THESE CHARACTERISTICS WITH OTHER ELEMENTS AND FOR A COMPARISON OF THESE CHARACTERISTICS BETWEEN SUBMITTAL AND ACTUAL COMPONENT AS DELIVERED AND INSTALLED.

MAINTAIN SETS OF APPROVED SAMPLES AT PROJECT SITE, AVAILABLE FOR QUALITY-CONTROL COMPARISONS THROUGHOUT THE COURSE OF CONSTRUCTION ACTIVITY. SAMPLE SETS MAY BE USED TO DETERMINE FINAL ACCEPTANCE

OF CONSTRUCTION ASSOCIATED WITH EACH SET.

CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. NOTE CORRECTIONS AND FIELD DIMENSIONS THAT VARY FROM CONSTRUCTION DOCUMENTS, AND MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT SUBMITTALS NOT STAMPED APPROVED BY THE CONTRACTOR WILL NOT BE REVIEWED, AND RETURNED TO CONTRACTOR FOR APPROVAL BEFORE ARCHITECTURAL/OWNER REVIEW. ARCHITECT'S ACTION:

THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE

THE ARCHITECT WILL REVIEW EACH SUBMITTAL, MAKE MARKS TO INDICATE CORRECTIONS OR REVISIONS REQUIRED, AND RETURN IT. ARCHITECT WILL STAMP EACH SUBMITTAL WITH AN ACTION STAMP AND WILL MARK STAMP APPROPRIATELY TO INDICATE ACTION. THE ARCHITECT WILL RETAIN ONE COPY FOR FILE RECORD DOCUMENTS, AND WILL RETURN ALL REMAINING COPIES TO CONTRACTOR.

INCOMPLETE SUBMITTALS ARE UNACCEPTABLE, WILL BE CONSIDERED NONRESPONSIVE, AND WILL BE RETURNED FOR

SUBMITTALS NOT REQUIRED BY THE CONTRACT DOCUMENTS MAY BE RETURNED BY THE ARCHITECT WITHOUT ACTION.

# 01-10 DEFERRED SUBMITTALS

DEFERRED SUBMITTALS ARE THOSE PORTIONS OF DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE PERMIT APPLICATION AND HAVE RECEIVED PRIOR APPROVAL FROM THE BUILDING OFFICIAL TO BE DEFERRED. THE DEFERRED BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORM WORK, REINFORCEMENT, AND EMBEDDED ITEMS IS SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND GENERAL CONTRACTOR WITHIN SIX WEEKS TO COMMENCEMENT COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED.

OF CONSTRUCTION TO THIS PORTION OF WORK. SEE DEFERRED SUBMITTAL LEGEND FOR ALL DEFERRED SUBMITTALS BY THE GENERAL CONTRACTOR, AND PROCESS PER IRC FOR REVIEW AND APPROVAL OF ALL DEFERRED SUBMITTALS. CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL OF THESE ITEMS. NO CONSTRUCTION OF ANY ITEM LISTED AS A DEFERRED SUBMITTAL SHALL COMMENCE PRIOR TO APPROVAL BY THE LOCAL BUILDING DEPARTMENT.

INLESS NOTED ON DRAWINGS, THE FOLLOWING ARE REQUIRED FOR THE DEFERRED SUBMITTAL PROCESS. 1. FIRE SPRINKLER DRAWINGS IF REQUIRED 2. PRE-FABRICATED ROOF AND FLOOR TRUSSES

CONFORMANCE WITH THE DESIGN INTENT OF THE STRUCTURE.

3. HEATING AND COOLING MECHANICAL SYSTEMS 4. LIGHT CONTROLS

5. RADIANT HEAT SUBMITTALS, ENGINEERING, LAYOUT, ETC.

# **DEFERRED SUBMITTAL PROCESS:**

6. FACTORY BUILT FIREPLACES.

1. THE DEFERRED SUBMITTAL SHALL FIRST BE REVIEWED BY THE GENERAL CONTRACTOR FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SUBMITTAL MUST BE REVIEWED, APPROVED, STAMPED AND SIGNED BY THE GENERAL CONTRACTOR BEFORE BEING SUBMITTED TO THE ARCHITECT.

2. THE GENERAL CONTRACTOR SHALL SUBMIT FIVE SETS OF THE DEFERRED SUBMITTAL TO THE ARCHITECT. 3. THE DEFERRED SUBMITTAL ITEMS WILL BE REVIEWED BY THE ENGINEER OR ARCHITECT IN RESPONSIBLE CHARGE. THE ENGINEER OR ARCHITECT WILL ATTACH A LETTER TO THE SUBMITTAL STATING THAT THE DEFERRED ITEM IS IN

4. THE REVIEWED SUBMITTALS WILL BE RETURNED TO THE GENERAL CONTRACTOR. TWO SETS OF THE DEFERRED SUBMITTAL ARE THEN SUBMITTED TO THE CITY FOR REVIEW.

5. THE GENERAL CONTRACTOR SHALL MAINTAIN ONE SET OF THE REVIEWED SUBMITTAL ON SITE FOR REFERENCE BY THE 6. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY

7. SEE STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS FOR STRUCTURAL DEFERRED SUBMITTALS.

**DIVISION 3-CONCRETE** 

03-05 CAST IN PLACE FOOTINGS

CONCRETE FOOTINGS TO BE 4,000 PSI MINIMUM COMPRESSIVE STRENGTH UNLESS SPECIFIED OTHERWISE ON STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE, UNLESS NOT SPECIFIED. ALL FOOTINGS SHALL HAVE

NORMAL WEIGHT 1" AGGREGATE. REINFORCING SHALL BE AS PER THE FOOTING SCHEDULE - SEE STRUCTURAL DRAWINGS.

DESIGN MIXTURES FOR EACH CONCRETE MIX.

ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL. (CERTIFIED 95% COMPACTION). ANY ALL STEPS SHALL BE PLACED ON 6" MINIMUM COMPACTED SUB BASE OR GRAVEL. STEPS SHALL SLOPE 1/8" AT EACH QUESTIONABLE SOIL SHALL BE REVIEWED BY SOIL ENGINEER PRIOR TO PLACEMENT OF FOOTING. THE CONTRACTOR SHALL TREAD TO ALLOW DRAINAGE. COORDINATE AND REQUEST A SITE OBSERVATION REPORT FROM GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF

ALL TYPICAL FOOTINGS TO BE MINIMUM OF 48" FROM FINISH GRADE TO BOTTOM OF FOOTING.

FOOTING SIZE AND REINFORCEMENT MUST MEET REQUIREMENTS OF 2012 IRC R403. FOOTING SIZE ARE SPECIFIED ON STRUCTURAL DRAWINGS WHICH TAKE PRECEDENCE UNLESS SPECIFIED. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES.

COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND ACI 301 FOR HOT-WEATHER PROTECTION DURING

BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED.

CONCRETE FOUNDATION TO BE 3,000 PSI MINIMUM COMPRESSIVE STREGTH, AND SHALL HAVE NORMAL WEIGHT

03-06 CAST IN PLACE FOUNDATION WALLS

REINFORCING SHALL BE AS PER THE FOUNDATION WALL SCHEDULE - SEE STRUCTURAL DRAWINGS.

DESIGN MIXTURES FOR EACH CONCRETE MIX.

TYPICAL WALLS SHALL BE A MINIMUM OF 8" THICK U.N.O. ON PLANS. REFER TO BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR THICKNESS OF WALLS. REFER TO TOP OF WALL DETAILS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS

DESIGN MIXTURES FOR EACH CONCRETE MIX. FOR SPECIFIED DETAILS AND REQUIREMENTS.

COORDINATE WITH ARCHITECTURAL FOUNDATION PLANS FOR ALL TOP OF WALL ELEVATIONS. TOP OF FOUNDATION WALL TO BE A MINIMUM OF 6" ABOVE FINISH GRADE.

PROVIDE WATERPROOFING AT EXTERIOR OF FOUNDATION WALLS BELOW FINISH GRADE AT ALL HABITABLE SPACES. SEE DIVISION 7 OF SPECIFICATIONS. PROVIDE PERIMETER FOUNDATION DRAIN - SEE DIVISION 7 OF SPECIFICATIONS.

PROVIDE RIGID INSULATION AT INSIDE FACE OF FOUNDATION BELOW FLOOR SLAB WHERE EXPOSED TO EXTERIOR. COORDINATE WITH ARCHITECTURAL DETAILS AND INSULATION SPECIFICATIONS FOR THICKNESS REQUIRED PER ENERGY CALCULATIONS CONCRETE FOUNDATION WALLS TO MEET THE REQUIREMENTS OF 2012 IRC 404.

CONSTRUCT FORM WORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS. TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.

COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED. FINISH: PROVIDE RUBBED SURFACES ON ALL EXPOSED SURFACES OF ALL EXPOSED CONCRETE FOUNDATION WALLS NO LATER THAN ONE DAY AFTER FORM REMOVAL.

BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE

### CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL. 03-08 CAST IN PLACE INTERIOR CONCRETE SLABS

INTERIOR CONCRETE SLABS TO BE 4,000 PSI. AND SHALL HAVE NORMAL WEIGHT 3/4" AGGREGATE.

REINFORCING SHALL BE PER STRUCTURAL DRAWINGS. PROVIDE #3 @ 24"O.C. EACH WAY OR 6" X 6"-W1.4 X W1.4 W.W.M. IF GENERAL/PRODUCT NOT SPECIFIED ON DRAWINGS. STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MINIMUM SPECIFICATION FOR ALL REINFORCEMENT.

DESIGN MIXTURES FOR EACH CONCRETE MIX

ALL SLABS SHALL BE PLACED ON 2" RIGID INSULATION BOARD OVER 6 MIL. POLYETHYLENE (OR APPROVED EQUAL) VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" OVER 4" MINIMUM COMPACTED SUB BASE.

THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED. COORDINATE WITH HVAC CONTRACTOR FOR IN FLOOR RADIANT HEATING SYSTEM OR BELOW GRADE DUCTWORK AS PER COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED. PLANS PROVIDED BY DESIGN BUILD CONTRACTOR COORDINATED BY THE GENERAL CONTRACTOR. THE RADIANT TUBING

ALL REINFORCEMENT.

MUST BE WITHIN THE TOP HALF OF THE SLAB.

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.

ALL JOINTS SHALL BE CUT. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF ALL CONTROL AND EXPANSION JOINTS AT

# 03-09 EXTERIOR CAST IN PLACE CONCRETE SLABS

EXTERIOR CONCRETE SLABS TO BE 4,000 PSI., AND SHALL HAVE NORMAL WEIGHT 3/4" AGGREGATE.

REINFORCING SHALL BE PER STRUCTURAL DRAWINGS. PROVIDE #3 @ 24" O.C. EACH WAY OR 6" X 6" -W1.4 X W1.4 W.W.M. IF NOT SPECIFIED ON DRAWINGS. STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MINIMUM SPECIFICATION FOR COMPRESSIVE STRENGTH (28 DAYS): 5000 PSI

DESIGN MIXTURES FOR EACH CONCRETE MIX

ALL SLABS SHALL BE PLACED ON 4" MINIMUM COMPACTED SUB BASE.

SLAB SHALL SLOPE 1/8" PER FOOT TO DRAIN AWAY FROM BUILDING.

PROVIDE TURNED DOWN GRADE BEAM AT EDGES. DOWEL SLAB INTO FOUNDATION WALLS WITH #4 BARS AT 24" O.C.

SHOWN ON DRAWINGS.

TROWEL FINISH: AS SPECIFIED ON LANDSCAPE DRAWINGS

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL

SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF ALL CONTROL AND EXPANSION JOINTS AT RADIANT HEATING TUBES ARE TO BE LOCATED IN SEVERAL CONCRETE PATIOS AT THE EXTERIOR AS NOTED ON THE PLANS.

LOCATIONS AND DESIGN OF TUBING LAYOUT. CONTRACTOR TO COORDINATE PLACEMENT OF TUBES IN TOP HALF OF

ALL SLABS AT EXTERIOR FOR RADIANT HEATING SHALL 2" CLOSED-CELL SPRAY-FOAM INSULATION UNDER THE SLAB.

# 03-12 EXTERIOR CAST IN PLACE CONCRETE STEPS

EXTERIOR CONCRETE STEPS TO BE 4,000 PSI., AND SHALL HAVE NORMAL WEIGHT 3/4" AGGREGATE.

REINFORCING SHALL BE PER STRUCTURAL DRAWINGS. PROVIDE #3 @ 24" O.C. PROVIDE #3 AT EACH NOSING OF STAIRS. STONE TO BE: QUARTZITE FROM LOCAL QUARRY PROVIDE MINIMUM OF 2" COVERAGE OF CONCRETE TO ALL STEEL. STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MINIMUM SPECIFICATION FOR ALL REINFORCEMENT

DESIGN MIXTURES FOR EACH CONCRETE MIX.

PROVIDE TURNED DOWN GRADE BEAM AT EDGES. DOWEL SLAB INTO FOUNDATION WALLS WITH #4 BARS AT 24" O.C STEPS TO HAVE RISER MAXIMUM HEIGHT OF 7" AND MINIMUM TREAD OF 12". SEE ARCHITECTURAL DETAILS FOR RISE AND RUN FOR EACH STEPS.

BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORM WORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED.

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL NO JOINTS IN STAIRS.

# 03-14 CAST IN PLACE RETAINING WALLS

PROVIDE PERIMETER FOUNDATION DRAIN - SEE DIVISION 7 OF SPECIFICATIONS.

TROWEL FINISH: AS SPECIFIED ON LANDSCAPE DRAWINGS.

CONCRETE FOUNDATION TO BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH, AND SHALL HAVE NORMAL WEIGHT 1 AGGREGATE UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHALL TAKE PRECENDENCE

REINFORCING SHALL BE AS PER THE FOUNDATION WALL SCHEDULE -SEE STRUCTURAL DRAWINGS.

OVER MINIMUM STANDARDS SPECIFIED.

TYPICAL WALLS SHALL BE A MINIMUM OF 8" THICK U.N.O. ON PLANS, REFER TO BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR THICKNESS OF WALLS. REFER TO TOP OF WALL DETAILS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS

FOR SPECIFIED DETAILS AND REQUIREMENTS. COORDINATE WITH ARCHITECTURAL FOUNDATION PLANS FOR ALL TOP OF WALL ELEVATIONS. TOP OF FOUNDATION WALL TO BE A MINIMUM OF 6" ABOVE FINISH GRADE.

PROVIDE WATERPROOFING AT EXTERIOR OF FOUNDATION WALLS BELOW FINISH GRADE AT ALL HABITABLE SPACES. SEE DIVISION 7 OF SPECIFICATIONS.

CONCRETE FOUNDATION WALLS TO MEET THE REQUIREMENTS OF 2012 IRC 404 CONSTRUCT FORM WORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR

TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED. BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORM WORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS HAVE BEEN PERFORMED

ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS,

FINISH: PROVIDE RUBBED SURFACES ON ALL EXPOSED SURFACES OF ALL EXPOSED CONCRETE FOUNDATION WALLS NO LATER THAN ONE DAY AFTER FORM REMOVAL. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE

CONTRACTOR SHALL COORDINATE PLACEMENT OF WEEP HOLES AT THE BASE OF THE CONCRETE RETAINING WALL.

03-18 CAST IN PLACE GARAGE CONCRETE SLABS

INTERIOR CONCRETE GARAGE SLABS TO BE 4,000 PSI., AND SHALL HAVE NORMAL WEIGHT 3/4" AGGREGATE. REINFORCING SHALL BE PER STRUCTURAL DRAWINGS. PROVIDE #3 @ 24" O.C. EACH WAY OR 6" X 6" -W1.4 X W1.4 W.W.M. FLASHING SHALL BE PROVIDED AT LOCATIONS IN THE EXTERIOR WALL ENVELOPE AS REQUIRED TO

DESIGN MIXTURES FOR EACH CONCRETE MIX

CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.

CONTRACTOR TO VERIFY THAT INSTALLATION OF FORM WORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND

ALL SLABS SHALL BE PLACED ON 4" MINIMUM COMPACTED SUB BASE OR GRAVEL. BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORM WORK, REINFORCEMENT, AND EMBEDDED ITEMS IS

> TROWEL FINISH: SMOOTH PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.

JOINTS: SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF ALL CONTROL AND EXPANSION JOINTS AT CONCRETE SLABS. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL DESIGN BUILD CONTRACTOR FOR EXTENT OF RADIANT HEATING TUBES IN CONCRETE SLAB. CONTRACTOR SHALL COORDINATE PLACEMENT,. AND ASSURE THAT ALL TUBES ARE

#### IN TOP HALF OF CONCRETE SLAB. PROVIDE 1 1/2" RIGID INSULATION UNDER ALL SLABS WITH RADIANT HEATING. COORDINATE WITH DETAILS ON PLANS.

03-62 CONCRETE TOPPING SLABS

1/2" LIGHTWEIGHT CONCRETE TOPPING SLAB ON PLYWOOD FLOORING

15LB BUILDING PAPER BETWEEN TOPPING SLAB AND PLYWOOD FLOORING

COST TO THE OWNER.

COORDINATE WITH HVAC CONTRACTOR PRIOR TO INSTALLATION. PLACE CONCRETE FLOOR TOPPING CONTINUOUSLY IN A SINGLE LAYER, TAMPING AND CONSOLIDATING TO ACHIEVE TIGHT CONTACT WITH BONDING SURFACE.

SCREED SURFACE WITH A STRAIGHTEDGE AND STRIKE OFF TO CORRECT ELEVATIONS, AND SLOPE SURFACES UNIFORMLY WHERE INDICATED. CONTRACTION JOINTS IN SLABS-ON-GRADE AS INDICATED SHALL BE AT LEAST ONE-FOURTH OF CONCRETE THICKNESS AS RADIANT TUBES SHALL BE PLACED ON TOP OF PLYWOOD FLOORING PRIOR TO PLACEMENT OF TOPPING SLAB. LAYOUT OF TUBING SHALL BE PROVIDED BY THE DESIGN BUILD GENERAL CONTRACTOR, AND SHALL BE PROTECTED FROM

> THE CONTRACTOR SHALL PROVIDE AS AN ALTERNATE TO THE OWNER THE PRICE TO PROVIDE 1/2" RIGID INSULATION UNDER THE LIGHTWEIGHT CONCRETE SLAB FOR ISOLATION OF RADIANT TUBES TO PLYWOOD. PROVIDE PRICING AS AN ADD ALTERNATE FOR OWNER APPROVALS

PUNCTURE PRIOR TO PLACEMENT. THE CONTRACTOR SHALL PROTECT ALL TUBING TO PREVENT DAMAGE TO ANY PIPES.

ALL DAMAGE WILL THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL/ PLUMBING CONTRACTORS TO REPAIR AT NO

# **DIVISION 4 MASONRY** 04-40 EXTERIOR STONE VENEER

STONE VENEER AT EXTERIOR OF BUILDING AS SHOWN ON DRAWINGS.

PATTERN: RANDOM HORIZONTAL ASHLER LAY TO BE VERIFIED BY THE ARCHITECT FROM MOCK-UP

COLOR: MIX OF BUFF AND GRAY

MORTAR COLOR: TO BE DETERMINED BY ARCHITECT AT TIME OF MOCKUP.

JOINTS IN STONE VENEER TO BE: DRY-STACK AS APPROVED BY ARCHITECT AT TIME OF MOCKUP. FLASHING: SEE SECTION 07 FOR FLASHING SPECIFICATIONS, SCHEDULE, REQUIREMENTS, ETC.

SEE DETAILS ON DRAWINGS FOR PROFILES OF FLASHING AT LOCATION SPECIFIED AND SHOWN ON DRAWINGS.

ARRANGE STONES IN PATTERN AS APPROVED BY ARCHITECT FROM SAMPLE PANEL ON SUBMITTALS

AND OWNER TO REVIEW AFTER SAMPLE PANEL IS COMPLETE FOR APPROVAL. PROVIDE 1 WEEK NOTICE.

ABOVE SHELF ANGLES, AND AT FLASHING. ANCHOR STONE MASONRY TO CONCRETE, CMU AND STUD WALL FRAMING AS INDICATED ON DETAILS WITHIN SET STONE IN FULL BED OF MORTAR WITH FULL HEAD JOINTS UNLESS OTHERWISE INDICATED. BUILD ANCHORS INTO

MORTAR TO BE SLUSHED INTO SPACE BETWEEN STONE FACE AND VAPOR BARRIER.

MORTAR JOINTS AS STONE IS SET.

RAKE OUT JOINTS AS DIRECTED BY ARCHITECT.

CLEAN STONE MASONRY AS WORK PROGRESSES. REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS. AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN STONE MASONRY AS FOLLOWS: REMOVE LARGE MORTAR PARTICLES BY HAND WITH WOODEN PADDLES AND NONMETALLIC SCRAPE HOES OR CHISELS,

ADJACENT STONE AND NON-MASONRY SURFACES FROM CONTACT WITH CLEANER BY COVERING THEM WITH LIQUID STRIPPABLE MASKING AGENT, POLYETHYLENE FILM, OR WATERPROOF MASKING TAPE. CLEAN STONE MASONRY WITH PROPRIETARY ACIDIC CLEANER APPLIED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. STONE AND MASONRY VENEERS SHALL BE INSTALLED IN ACCORDANCE WITH IRC CHAPTER 703 TABLE R703.4 AND FIGURE

EXCEED 5 INCHES IN THICKNESS. HEIGHTS MAY BE EXCEEDED IF ENGINEERED PER I.R.C. MASONRY VENEERS INSTALLATION AND CONSTRUCTION SHALL COORDINATE WITH STANDARD CONSTRUCTION DETAILS, STRUCTURAL SEISMIC PROVISIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R703, R1001 AND

A. MASONRY VENEERS SHALL BE SUPPORTED ON FOUNDATIONS, STEEL LINTELS, OR OTHER APPROVED MATERIALS AS PER INTERNATIONAL RESIDENTIAL CODE. (I.R.C. R703.7.2) B. MASONRY VENEERS SHALL BE ANCHORED TO THE SUPPORTING WALL WITH CORROSION RESISTANT METAL TIES. WHERE VENEER IS ANCHORED TO WOOD BACKINGS THROUGH THE USE OF CORRUGATED SHEET METAL TIES THE DISTANCE SEPARATING THE VENEER FROM THE SHEATHING SHALL BE A MAXIMUM OF 1 INCH. (R703.7.4) WHERE STRAND WIRE IS USED FOR ANCHORAGE THE DISTANCE SEPARATING THE

VENEER FROM THE SHEATHING SHALL BE

A MAXIMUM OF 4 1/2 INCHES. (I.R.C. R703.7.4) C. THE VENEER SHALL BE SEPARATED FROM THE SHEATHING BY AN AIR SPACE OF A MINIMUM OF 1 INCH BUT NOT MORE THAN 4.5 INCHES. A WEATHER MEMBRANE IS NOT REQUIRED OVER WATER-REPELLENT SHEATHING. (I.R.C. R703.7.4.2), OTHERWISE PROVIDE APPROVED MEMBRANE PER IRC TABLE R703.4 NOTE M. THE AIR SPACE BETWEEN THE VENEER AND THE SHEATHING MAY BE FILLED WITH GROUT OR MORTAR AS LONG AS THE SHEATHING IS COVERED WITH AN APPROVED WEATHER RESISTANT MEMBRANE. (I.R.C. R703.7.4.3) D. ANCHORAGE SIZE & SPACING, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAG WIRE & SHALL HAVE A HOOD EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS NO. 22 U.S. GAGE X 7/8 INCH CORRUGATED. EACH TIE SHALL BE SPACED NOT MORE THAN 24 INCHES ON CENTER

HORIZONTALLY AND SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA. (I.R.C. R703.7.4.1)

EXCEPTIONS: IN SEISMIC DESIGN CATEGORY D1 OR D2 & IN WIND AREAS OF MORE THAN 30 POUNDS PER SQUARE FOOT,

E. ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER & PLACED WITHIN 12 INCHES OF THE WALL OPENING. (SEE I.R.C. SECTION F. MASONRY VENEERS ABOVE OPENINGS SHALL BE SUPPORTED ON LINTELS OF NON-COMBUSTABLE MATERIALS. THE SPAN SHALL NOT EXCEED THE VALUES AS SET FORTH IN TABLE R703.7.3 OF THE I.R.C. THE LINTELS

EACH TIE SHALL SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL AREA. IRC 703.7.4.1 EXCEPTION.

SHALL HAVE A LENGTH OF BEARING OF NOT LESS THAN 4 INCHES. (I.R.C. R703.7.3)

STONE OR BRICK VENEER ON STUDS OR SHEATHING.

LEVEL ABOVE THE FOUNDATION WALL OR SLAB AND ALL OTHER POINTS OF SUPPORT (IRC 703.7.5) IF NOT SPECIFIED ON DRAWINGS. STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MINIMUM SPECIFICATION FOR ENTRY OF WATER INTO THE BUILDING AS PER IRC 703.8. H. WEEPHOLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS AT A MAXIMUM SPACING OF 33 INCHES ON CENTER. WEEPHOLE SHALL BE NOT LESS THAN 3/16 INCH IN DIAMETER. WEEPHOLES SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING. (I.R.C. R703.7.6) I. IN SEISMIC CATEGORY OTHER THAN A,B, OR C ALL STONE AND MASONRY VENEERS INSTALLED OVER A BACKING OF WOOD OR COLD-FORMED STEEL SHALL NOT EXCEED 5 INCHES IN THICKNESS. SEE STRUCTURAL FOR SEISMIC CATEGORY. (I.R.C. R703.7). MASONRY HEIGHT SHALL BE LIMITED PER 703 EXCEPTIONS. IN CATEGORY D1, MASONRY VENEER HALL NOT EXCEED 20' ABOVE THE FOUNDATION WITH

ADDITIONAL 8' PERMITTED FOR GABLED ENDS AND WHERE THE LOWER 10' MAX. HAS A BACKING OF CONCRETE OR

J. PROVIDE WEATHER RESISTANT SHEATHING PAPER AS REQUIRED AS PER I.R.C. TABLE R703.4 UNDER ALL

CONNECTORS AS REQUIRED PER R703.7 EXCEPTION 3 OR 4 AS APPLICABLE. HEIGHT MAY BE EXCEEDED IF ENGINEERED

MASONRY, AN ADDITIONAL 10' IN HEIGHT IS PERMITTED. PROVIDE BRACED WALLS AND HOLD DOWN

G. FLASHING SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND

04-48, 04-49 STONE VENEER COMPONENTS

TONE VENEER COMPONENTS ARE: CUT STONE WALL CAPS- CHOPPED SANDSTONE CUT STONE WINDOW SILLS - CHOPPED SANDSTONE CUT STONE COLUMN CAPS- CHOPPED SANDSTONE

STONE TO BE: QUARTZITE FROM LOCAL QUARRY STONE COLOR TO BE: MIX OF BUFF AND GRAY

MORTAR JOINTS AS STONE IS SET.

MORTAR COLOR: TO BE DETERMINED BY ARCHITECT AT TIME OF MOCKUP.

STONE TO BE CUT AND INSTALLED PER DETAILS WITHIN DRAWINGS

CUT STONE WINDOW /DOOR HEADERS- CHOPPED SANDSTONE

SEE DETAILS ON DRAWINGS FOR PROFILES OF FLASHING AT LOCATION SPECIFIED AND SHOWN ON DRAWINGS. 4 FT X 4 FT SAMPLE PANEL AT SITE OF EACH STONE TYPE INDICATED AND LAY PATTERN INDICATED. CONTACT ARCHITECT

FLASHING: SEE SECTION 07 FOR FLASHING SPECIFICATIONS, SCHEDULE, REQUIREMENTS, ETC.

PROVIDE SAMPLE OF EACH COMPONENT TO BE INCLUDED WITHIN THE SAMPLE BOARD FOR REVIEW BY OWNER AND ARCHITECT.

WALL CAPS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS. INSTALL ALL CAPS LEVEL AND SHALL SLOPE AS PLACE WEEP HOLES AND VENTS IN JOINTS WHERE MOISTURE MAY ACCUMULATE, INCLUDING AT BASE OF CAVITY WALLS. INDICATED ON DRAWINGS OR WITH A MINIMUM OF 1/8" PER FT. FOR DRAINAGE. IF NOT SPECIFIED PROVIDE TOP TO SLOPE TO PROVIDE DRAINAGE AWAY FROM BUILDING.

> WINDOW SILLS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS. INSTALL ALL SILLS LEVEL AND SHALL SLOPE AS INDICATED ON DRAWINGS FOR DRAINAGE. IF NOT SPECIFIED PROVIDE TOP TO SLOPE TO PROVIDE DRAINAGE AWAY

DRAWINGS OR WITH A MINIMUM OF 1/8" PER FT. FOR DRAINAGE. COLUMN CAPS SHALL BE PROVIDED IN 4 PIECES WITH ALL JOINTS AT CORNERS, UNLESS SHOWN OTHERWISE ON DRAWINGS. TOP SHALL SLOPE AWAY FROM CENTER TO EDGE AS NOTED ON DRAWINGS.

COLUMN CAPS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS. INSTALL ALL CAPS TO SLOPE AS INDICATED ON

WINDOW AND DOOR HEADERS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS. INSTALL DOOR AND WINDOW

ANCHOR STONE MASONRY TO CONCRETE, CMU AND STUD WALL FRAMING AS INDICATED ON DETAILS WITHIN DRAWINGS. TEST CLEANING METHODS ON MOCKUP; LEAVE ONE-HALF OF PANEL UNCLEAN FOR COMPARISON PURPOSES. PROTECT SET STONE IN FULL BED OF MORTAR WITH FULL HEAD JOINTS UNLESS OTHERWISE INDICATED. BUILD ANCHORS INTO

MORTAR TO BE SLUSHED INTO SPACE BETWEEN STONE FACE AND DRAIN PLANE AND WEATHER BARRIER. R703.7.2.1 AND R703.7.2.2. THESE VENEERS INSTALLED OVER A BACKING OF WOOD OR COLD-FORMED STEEL SHALL NOT RAKE OUT JOINTS AS DIRECTED BY ARCHITECT.

MORTAR IS THOROUGHLY SET AND CURED, CLEAN STONE MASONRY AS FOLLOWS:

REMOVE LARGE MORTAR PARTICLES BY HAND WITH WOODEN PADDLES AND NONMETALLIC SCRAPE HOES OR CHISELS, TEST CLEANING METHODS ON MOCKUP; LEAVE ONE-HALF OF PANEL UNCLEAN FOR COMPARISON PURPOSES. PROTECT ADJACENT STONE AND NON-MASONRY SURFACES FROM CONTACT WITH CLEANER BY COVERING THEM WITH LIQUID Strippable masking agent, polyethylene film, or waterproof masking tape. Clean stone masonry with PROPRIETARY ACIDIC CLEANER APPLIED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

CLEAN STONE MASONRY AS WORK PROGRESSES. REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS,AFTER

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**REVISIONS:** 

INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE, LENGTH, AND TYPE OF EACH WELD.

INDICATE TYPE, SIZE, AND LENGTH OF BOLTS. BOLTS, NUTS, AND WASHERS: ASTM A325, HEAVY HEX STEEL STRUCTURAL BOLTS; ASTM A563 HEAVY HEX CARBON-STEEL NUTS; AND ASTM F436 HARDENED CARBON-STEEL WASHERS. CONTRACTOR SHALL ASSURE THAT FABRICATOR, ERECTOR ARE CERTIFIED INSTALLERS TO PERFORM THE WORK, AND PROVIDE CERTIFICATION WITH SUBMITTAL

ALL STEEL MEMBERS SHALL BE PRIMED, PRIOR TO DELIVERY TO SITE. EXPOSED STEEL SHALL BE FINISHED SSPC-PAINT 25, TYPE ARCHITECT. I, COLOR OF EXPOSED STEEL TO BE: BENJAMIN MOORE-SATIN HC-167, "AMHERST GRAY".

PROVIDE BEAMS OF SIZES AND SHAPES INDICATED. FABRICATE CONNECTIONS TO COMPLY WITH DETAILS SHOWN OR AS REQUIRED TO SUIT TYPE OF STRUCTURE INDICATED.

CONTRACTOR WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM SHOP TESTS AND INSPECTIONS AND PREPARE TEST REPORTS. VERIFY ELEVATIONS OF CONCRETE- AND MASONRY-BEARING SURFACES AND LOCATIONS OF ANCHOR RODS, BEARING PLATES, AND OTHER EMBEDMENTS, PROCEED WITH INSTALLATION ONLY AFTER PROVIDE ALL NECESSARY BRACING AND SHORING FOR ERECTION, AND DO NOT REMOVE UNTIL FINAL ERECTION IS UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

PROVIDE ALL NECESSARY BRACING AND SHORING FOR ERECTION, AND DO NOT REMOVE UNTIL FINAL ERECTION IS COMPLETE. CAMBER STRUCTURAL-STEEL MEMBERS WHERE INDICATED. ALL MEMBERS SHALL BE LEVEL AND PLUMB IN ACCORDANCE WITH THE DRAWINGS AND PROJECT CONDITIONS.

FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST, SCALE, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, AND ROUGHNESS. REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOP PRIMING.

BOLT HOLES: CUT, DRILL, OR PUNCH STANDARD BOLT HOLES PERPENDICULAR TO METAL SURFACES. PROVIDE HOLES REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS. DO NOT THERMALLY CUT BOLT HOLES OR ENLARGE HOLES BY BURNING.

# 05-02, 05-03, 05-04 STRUCTURAL STEEL COLUMNS

STRUCTURAL STEEL COLUMNS: TUBE, PIPE, WIDE FLANGE, AS NOTED ON STRUCTURAL DRAWINGS. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

SHOP DRAWINGS: SHOW FABRICATION OF STRUCTURAL-STEEL COMPONENTS

INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBER, HOLES, AND OTHER PERTINENT DATA, WITH EMBEDMENT

INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE. LENGTH, AND TYPE OF EACH WELD.

INDICATE TYPE, SIZE, AND LENGTH OF BOLTS, DISTINGUISHING BETWEEN SHOP AND FIELD BOLTS.

CONTRACTOR SHALL ASSURE THAT FABRICATOR, ERECTOR ARE CERTIFIED INSTALLERS TO PERFORM THE WORK.

ALL STEEL MEMBERS SHALL BE PRIMED, PRIOR TO DELIVERY TO SITE. EXPOSED STEEL SHALL BE FINISHED AS FOLLOWS:

- A. Piamented Polyurethane over Epoxy System with shopcoat primer Prime Coat: Primer, rust-inhibitive, water based, MPI #107: S-W S-W Pro-Cryl Universal Primer, B66-310 Series, at 2.0 to 4.0 mils dry, per coat.
- Intermediate Coat: Epoxy, high-build, low gloss, : S-W Macropoxy 646-100, B58-600 Series, B-73-620 Series, at 5 to 10 mils dry, per coat.
- 3) Topcoat: Polyurethane, two-component, pigmented, gloss, (Gloss Level 6): S-W Waterbased Acrolon 100 Polyurethane, B65-720 Series, at 2.0 to 4.0 mils dry, per coat. B. COLOR: BENJAMIN MOORE- SATIN HC-167, "AMHERST GRAY".

PROVIDE COLUMNS OF SIZES AND SHAPES INDICATED. FABRICATE CONNECTIONS TO COMPLY WITH DETAILS SHOWN OR AS REQUIRED TO SUIT TYPE OF STRUCTURE INDICATED.

CONTRACTOR WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM SHOP TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.

VERIFY ELEVATIONS OF CONCRETE- AND MASONRY-BEARING SURFACES AND LOCATIONS OF ANCHOR RODS, BEARING PLATES, AND OTHER EMBEDMENTS, THEN PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

PROVIDE ALL NECESSARY BRACING AND SHORING FOR ERECTION, AND DO NOT REMOVE UNTIL FINAL ERECTION IS COMPLETE. ALL MEMBERS SHALL BE LEVEL AND PLUMB IN ACCORDANCE WITH THE DRAWINGS AND PROJECT

ALL STEEL COLUMNS IN WALLS SHALL RECEIVE 1/2" DIAMETER THREADED BOLTS WELDED TO THE COLUMN AT 2'-0" O.C. VERTICAL. STUD WALLS SHALL START AND STOP AT COLUMN AND BOLT TO COLUMN. BOLTS SHALL EXTEND THROUGH TWO STUDS MINIMUM AT ALL LOCATIONS EXCEPT AT WINDOWS AT EXTERIOR WALL. BOLTS MAY EXTEND THROUGH ONE STUD.

# 05-06 STRUCTURAL STEEL CHANNELS

<u>GENERAL/PRODUCTS</u>
STRUCTURAL STEEL CHANNELS (ASTM A 572/A 572M, GRADE 50)

SHOP DRAWINGS: SHOW FABRICATION OF STRUCTURAL-STEEL COMPONENTS

INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBER, HOLES, AND OTHER PERTINENT DATA, WITH EMBEDMENT

INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE, LENGTH, AND TYPE OF EACH WELD. INDICATE TYPE, SIZE, AND LENGTH OF BOLTS. BOLTS, NUTS, AND WASHERS: ASTM A 325, HANDRAILS SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R311.7.7: HEAVY HEX STEEL STRUCTURAL BOLTS; ASTM A 563 HEAVY HEX CARBON-STEEL NUTS; AND ASTM F 436 HARDENED CARBON-

CONTRACTOR SHALL ASSURE THAT FABRICATOR, ERECTOR ARE CERTIFIED INSTALLERS TO PERFORM THE WORK, AND PROVIDE CERTIFICATION WITH SUBMITTAL

all steel members shall be primed, prior to delivery to site. Exposed steel shall be finished as follows:

A. Pigmented Polyurethane over Epoxy System with shopcoat primer: Prime Coat: Primer, rust-inhibitive, water based, MPI #107: S-W S-W Pro-Cryl Universal

- Primer, B66-310 Series, at 2.0 to 4.0 mils dry, per coat.
- 2) Intermediate Coat: Epoxy, high-build, low gloss, : S-W Macropoxy 646-100, B58-600 Series, B-73-620 Series, at 5 to 10 mils dry, per coat.
- 3) Topcoat: Polyurethane, two-component, pigmented, gloss, (Gloss Level 6): S-W Waterbased Acrolon 100 Polyurethane, B65-720 Series, at 2.0 to 4.0 mils dry, per coat. B. COLOR: BENJAMIN MOORE- SATIN HC-167, "AMHERST GRAY".

PROVIDE CHANNELS OF SIZES AND SHAPES INDICATED. FABRICATE CONNECTIONS TO COMPLY WITH DETAILS SHOWN OR AS REQUIRED TO SUIT TYPE OF STRUCTURE INDICATED.

VERIFY ELEVATIONS OF CONCRETE- AND MASONRY-BEARING SURFACES AND LOCATIONS OF ANCHOR RODS, BEARING PLATES, AND OTHER EMBEDMENTS, PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN LEAST 3/8 INCH (10 MM) TO A LEVEL THAT IS NOT LESS CORRECTED. PROVIDE ALL NECESSARY BRACING AND SHORING FOR ERECTION, AND DO NOT REMOVE UNTIL FINAL ERECTION IS COMPLETE. ALL MEMBERS SHALL BE LEVEL AND PLUMB IN ACCORDANCE WITH THE DRAWINGS AND PROJECT 1/4 INCHES (32 MM) TOA

FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST, SCALE, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, AND ROUGHNESS.

REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOP

BOLT HOLES: CUT, DRILL, OR PUNCH STANDARD BOLT HOLES PERPENDICULAR TO METAL SURFACES. PROVIDE HOLES REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS. DO NOT THERMALLY CUT BOLT HOLES OR ENLARGE HOLES BY BURNING.

# 05-08 STRUCTURAL STEEL ANGLE LINTELS

STRUCTURAL STEEL LINTELS

Shop drawings: show fabrication of structural-steel components. Include details of cuts, connections, Shop drawings: show fabrication of structural-steel components. Include details of cuts, connections SPLICES, CAMBER, HOLES, AND OTHER PERTINENT DATA, WITH EMBEDMENT DRAWINGS.

> LENGTH, AND TYPE OF EACH WELD. CONTRACTOR SHALL ASSURE THAT FABRICATOR. ERECTOR ARE CERTIFIED INSTALLERS TO PERFORM THE WORK, AND

> INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE,

PROVIDE CERTIFICATION WITH SUBMITTAL. EXECUTION

ALL STEEL LINTELS TO BE HOT-DIPPED GALVANIZED. WHEN PART OF THE LEG IS EXPOSED TO VIEW DUPLEX COAT LINTEL AND OVER THE GALVANIZING PRIME LINTEL, PRIOR TO DELIVERY TO SITE. EXPOSED STEEL SHALL BE FINISHED SSPC-PAINT 25, TYPE I, COLOR OF EXPOSED STEEL TO BE: BENJAMIN MOORE-SATIN HC-167, "AMHERST GRAY" OR AS SELECTED BY

PROVIDE LINTELS OF SIZES AND SHAPES INDICATED.

VERIFY ELEVATIONS OF CONCRETE- AND MASONRY-BEARING SURFACES AND LOCATIONS OF ANCHOR RODS, BEARING PLATES, AND OTHER EMBEDMENTS, PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN

COMPLETE. ALL MEMBERS SHALL BE LEVEL AND PLUMB IN ACCORDANCE WITH THE DRAWINGS AND PROJECT

FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST, SCALE, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, AND ROUGHNESS. REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOP

BOLT HOLES: CUT, DRILL, OR PUNCH STANDARD BOLT HOLES PERPENDICULAR TO METAL SURFACES. PROVIDE HOLES REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS. DO NOT THERMALLY CUT BOLT HOLES OR ENLARGE HOLES BY BURNING.

# 05-10 ANCHOR BOLTS

ANCHOR BOLTS AS SHOWN ON STRUCTURAL DRAWINGS.

ANCHOR BOLTS SHALL BE PLACED FOR 5" MINIMUM EMBEDMENT COVERAGE OR AS PER STRUCTURAL DRAWINGS (MOST STRINGENT CONDITIONS APPLY). PROVIDE 5" MINIMUM UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

ANCHORS BOLTS SHALL BE MINIMUM OF 3/4" DIA. A307 TYPE BOLTS.

**05-11 EXPANSION ANCHORS** 

EXPANSION AS SHOWN ON STRUCTURAL DRAWINGS.

EXPANSION ANCHORS SHALL BE PLACED FOR 5" MINIMUM EMBEDMENT COVERAGE OR AS PER STRUCTURAL DRAWINGS (MOST STRINGENT CONDITIONS APPLY).

ANCHORS BOLTS SHALL BE MINIMUM OF 3/4" DIA. A307 TYPE BOLTS.

# 05-18 STEEL GUARDRAILS & HAND RAILINGS

STEEL AND ORNAMENTAL RAILINGS AS SHOWN ON DRAWINGS AND DETAILS.

STEEL AND ORNAMENTAL RAILINGS FINISH SHALL BE:

A. Epoxy-Modified Latex System: Prime Coat: Primer, rust-inhibitive, water based, MPI #107: S-W Pro-Cryl Universal Primer, B66-310 Series, at 2.0 to 4.0 mils dry, per coat. Intermediate Coat: Epoxy-modified latex, interior, gloss matching topcoat.

Topcoat: Epoxy-modified latex, interior, eggshell, (Gloss Level 3), MPI #254/MPI #254X-

Green: S-W Pro Industrial Waterbased Catalyzed Epoxy Eggshell, B73-300 Series, at 2.0 to 4.0 mils dry, per coat. B. COLOR: BENJAMIN MOORE- SATIN HC-167, "AMHERST GRAY" OR AS SELECTED BY INTERIOR

BRACKETS, FLANGES, AND ANCHORS: SAME METAL AND FINISH AS SUPPORTED RAILS, UNLESS OTHERWISE INDICATED. TOP CAP TO BE:INTERIOR: CONTINUOUS WOOD RAIL CAP WITH WOOD TO MATCH THAT OF WOOD FLOOR.

FINISHED AS SELECTED BY INTERIOR DESIGNER. EXTERIOR: CONTINUOUS COMPOSITE "TRUGRAIN" RAIL CAP-SEE DETAIL FOR SIZE, FINISHED AS

HANDRAILS AND GUARDRAILS SHALL MEET FOLLOWING DESIGN LOADS. UNIFORM LOAD OF 50 LBF/ FT. APPLIED IN ANY DIRECTION. CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.

TOP RAILS OF GUARDS: UNIFORM LOAD OF 50 LBF/ FT. APPLIED IN ANY DIRECTION. CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.

INFILL OF GUARDS: CONCENTRATED LOAD OF 50 LBS APPLIED HORIZ. ON AN AREA OF 1 SQ. FT. UNIFORM LOAD OF 25 LBF/SQ. FT. APPLIED HORIZONTALLY.

FOR RAILINGS ASSEMBLED FROM STANDARD COMPONENTS, GROUT, ANCHORING CEMENT, AND PAINT PRODUCTS.

SHOP DRAWINGS: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK. SAMPLES: FOR EACH EXPOSED FINISH REQUIRED.

A. HANDRAILS SHALL BE MOUNTED A MINIMUM OF 34 INCHES AND A MAXIMUM OF 38 INCHES ABOVE THE NOSING OF THE TREAD AND SHALL BE PROVIDED ON AT LEAST ONE SIDE OF STAIRWAYS. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS WITH FOUR OR MORE RISERS FROM DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS. VOLUTES, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD.

B. ALL REQUIRED HANDRAILS SHALL BE OF ONE OF THE FOLLOWING TYPES OF PROVIDE EQUIVALENT GRASPABILITY.

1. TYPE I. HANDRAILS WITH A CIRCULAR CORSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4 INCHES (32 MM) AND NOT GREATER THAN 2 INCHES (51 MM). IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES (102 MM) AND THAN 6 1/4 INCHES (160 MM) WITH A MAXIMUM CROSS SECTION OF DIMENSION OF  $2\frac{1}{4}$  INCHES (57 MM). EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH (0.25 MM).

2. TYPE II. HANDRAILS WITH A PERIMETER GREATER THAN 6 ¼ INCHES (160 MM) SHALL HAVE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4 INCH (19 MM) MEASURED VERTICALLY FROM THE PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16 INCH (8 MM) WITH 7/8 INCH (22 MM) BELOW THE WIDEST PORTION OF THE PROFILE. THE REQUIRED DEPTH SHALL CONTINUE FOR AT THAN 1 ¾ INCHES (45 MM) BELOW THE TALLEST WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1 PORTION OF THE PROFILE. THE MINIMUM MAXIMUM OF 2 % INCHES (70 MM). EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH (0.25 MM).

C. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL.

# 05-37 MISC. METAL FABRICATIONS

TEEL FABRICATONS AS NOTED IN THE DRAWINGS AND AS FOLLOWS:

1- CHIMNEY COVER CHASE. FINISH AS NOTE #2 BELOW.

2- STEEL STAIR ELEMENTS. FINISH AS NOTE #1 BELOW.

SHOP DRAWINGS: SHOW FABRICATION OF STEEL FABRICATONS.

INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBER, HOLES, AND OTHER PERTINENT DATA, WITH EMBEDMENT INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE,

LENGTH, AND TYPE OF EACH WELD. INDICATE TYPE, SIZE, AND LENGTH OF BOLTS. BOLTS, NUTS, AND WASHERS: ASTM A 325, HEAVY HEX STEEL STRUCTURAL BOLTS; ASTM A 563 HEAVY HEX CARBON-STEEL NUTS; AND ASTM F 436 HARDENED CARBON-STEEL WASHERS. CONTRACTOR SHALL ASSURE THAT FABRICATOR, ERECTOR ARE CERTIFIED INSTALLERS TO PERFORM THE WORK, AND

PROVIDE CERTIFICATION WITH SUBMITTAL

NOTE #1: PRIMED, PRIOR TO DELIVERY TO SITE. EXPOSED STEEL SHALL BE FINISHED AS FOLLOWS: A. Pigmented Polyurethane over Epoxy System with shopcoat primer:

Prime Coat: Primer, rust-inhibitive, water based, MPI #107: S-W S-W Pro-Cryl Universal Primer, B66-310 Series, at 2.0 to 4.0 mils dry, per coat. 2) Intermediate Coat: Epoxy, high-build, low gloss, : S-W Macropoxy 646-100, B58-600 Series, B-73-620 Series, at 5 to 10 mils dry, per coat. 3) Topcoat: Polyurethane, two-component, pigmented, gloss, (Gloss Level 6): S-W

Waterbased Acrolon 100 Polyurethane, B65-720 Series, at 2.0 to 4.0 mils dry, per coat. B. COLOR: BENJAMIN MOORE- SATIN HC-167, "AMHERST GRAY".

NOTE#2: PROVIDE DUPLEX COATING OF HOT -DIPPED GALVANIZED AND COAT THE EXTERIOR SURFACE EXPOSED TO VIEW AS FOLLOWS: A. Water-based Light Industrial Coating System: Prime Coat: Primer, water-based, anti-corrosive for metal, MPI #107: S-W Pro Industrial

Pro-Cryl Universal Primer, B66-310 Series, 5.0 to 10.0 mils wet, 2.0 to 4.0 mils dry. Prime Coat: Shop primer specified in Section where substrate is specified. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat. Topcoat: Light industrial coating, exterior, water based, semi-gloss, (Gloss Level 5), MPI # 163: S-W Pro Industrial Acrylic Semi-Gloss Coating, B66-650 Series, at 2.5 to 4.0 mils dry, per

B. COLOR: BENJAMIN MOORE- SATIN HC-167, "AMHERST GRAY".

PROVIDE FABRICATIONS OF SIZES AND SHAPES INDICATED. FABRICATE CONNECTIONS TO COMPLY WITH DETAILS SHOWN PROVIDE 2X SOLID WOOD FIREBLOCKING AT EVERY 10'-0", AND PROVIDE SOLID BLOCKING AT MID SPAN FOR ANY STUD OR AS REQUIRED TO SUIT TYPE OF STRUCTURE INDICATED.

VERIFY ELEVATIONS OF CONCRETE- AND MASONRY-BEARING SURFACES AND LOCATIONS OF ANCHOR RODS, BEARING FOUNDATION PLATES OR SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB, WHICH IS IN DIRECT CONTACT WITH PLATES. AND OTHER EMBEDMENTS, PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN EARTH, AND SILLS WHICH REST ON CONCRETE OR MASONRY FOUNDATIONS, SHALL BE TREATED WOOD OR FOUNDATION CORRECTED. PROVIDE ALL NECESSARY BRACING AND SHORING FOR ERECTION, AND DO NOT REMOVE UNTIL FINAL REDWOOD, ALL MARKED OR BRANDED BY AN APPROVED AGENCY. WHERE NOT SUBJECT TO WATER SPLASH OR TO ERECTION IS COMPLETE. ALL MEMBERS SHALL BE LEVEL AND PLUMB IN ACCORDANCE WITH THE DRAWINGS AND PROJECT EXTERIOR MOISTURE AND LOCATED ON CONCRETE HAVING A MINIMUM THICKNESS OF 3 INCHES WITH AN IMPERVIOUS

FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST, PROVIDE FIRE BLOCKING AT ALL BEARING WALLS, AND PROVIDE FIRE BLOCKING AT ALL SPACES @ 10'-0" SCALE, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, AND ROUGHNESS.

REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOPHOLD WOOD FRAMING AWAY FROM CONCRETE FOUNDATION WALL 1/2 INCH.

# 05-55 CUSTOM STEEL STAIRS

STAIR COMPONENTS AS FOLLOWS:

STRINGERS EXPOSED STEEL PLATE STRINGERS AS PER DETAILS. 3" SOLID WOOD TREADS AS PER DETAILS. OPEN RISER THAT DOES NOT EXCEED 4".

framing members. Do not thermally cut bolt holes or enlarge holes by burning

SHOP DRAWINGS: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.

PROVIDE COMPLETE STAIR ASSEMBLIES, INCLUDING METAL FRAMING, HANGERS, STRUTS, RAILINGS, CLIPS, BRACKETS, BEARING PLATES, AND OTHER COMPONENTS NECESSARY TO SUPPORT AND ANCHOR STAIRS AND PLATFORMS ON Supporting structure. Bolts shall be fabricated and join so bolts are not exposed on finished surfaces.

METAL SURFACES, GENERAL: PROVIDE MATERIALS WITH SMOOTH, FLAT SURFACES WITHOUT BLEMISHES. FINISH: FACTORY PRIMED FOR A HIGH-PERFORMANCE COATING WITH COLOR AS SELECTED BY ARCHITECT.

STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED: UNIFORM LOAD: 100 LBF/SQ. FT. CONCENTRATED LOAD: 300 LBF APPLIED ON AN AREA OF 4 SQ. IN.

LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS 1/8 INCH. STRUCTURAL PERFORMANCE OF RAILINGS: PROVIDE RAILINGS CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY

LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED.

PROVIDE A MINIMUM OF 7'-6" HEAD CLEARANCE AT ALL POINTS.

# DIVISION 6-WOOD, PLASTICS & COMPOSITES

# 06-01, 06-02, 06-03, 06-04, 06-05, 06-06 STUD WALL ROUGH FRAMING

2X4 AND 2 X 6 DOUGLAS FIR, HEM FIR #2 OR BETTER. WOOD STUDS AS SHOWN ON DRAWINGS. PROTECT WOOD AGAINST DECAY AS NOTED AND REQUIRED BY CODE. WHERE PROTECTION IS REQUIRED WOOD MUST BE APPROVED TREATED OR DECAY RESISTANT. SEE I.R.C. SECTION R317& LOCAL JURISDICTION'S REGULATIONS.

PROVIDE 2X WOOD STUDS AT 16" O.C. U.N.O. COORDINATE WITH STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

THE CONTRACTOR SHALL COORDINATE AND INSTALL SOLID BLOCKING FOR THE INSTALLATION OF ALL FIXTURES, CABINETS, EQUIPMENT, FINISH HARDWARE, ETC. THAT REQUIRE SUCH.

PROTECT WOOD AGAINST DECAY AS NOTED AND REQUIRED BY CODE. WHERE PROTECTION IS REQUIRED WOOD MUST BE APPROVED TREATED OR DECAY RESISTANT (I.R.C. R319.1). SEE I.R.C. SECTION R319 & LOCAL JURISDICTION'S REGULATIONS AS REQUIRED BY IRC. TABLE R301.2(1) ADDITIONAL REQUIREMENTS AS SPECIFIED WITHIN INDIVIDUAL SECTIONS.

SLABS PLACED ON EARTH, WOOD SHALL BE TREATED WOOD OR WOOD OF NATURAL RESISTANCE TO DECAY. (I.R.C. R319.1 (5)). FOUNDATION PLATES OR SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB, WHICH IS IN DIRECT CONTACT WITH RECOMMENDED BY MANUFACTURER. FOUNDATION REDWOOD, ALL MARKED OR BRANDED BY AN APPROVED AGENCY. (I.R.C. R323.1 (2 & 3)) WHERE NOT

SUBJECT TO WATER SPLASH OR TO EXTERIOR MOISTURE AND LOCATED ON CONCRETE HAVING A MINIMUM THICKNESS GENERAL/PRODUCT OF 3 INCHES WITH AN IMPERVIOUS MEMBRANE INSTALLED BETWEEN CONCRETE AND EARDYTH, THE WOOD MAY BE WALL SHEATHING TO BE: AND SLABS.

PROVIDE FIRE BLOCKING AT MID SPAN AT ALL BEARING WALLS, AND PROVIDE FIRE BLOCKING AT ALL SPACES @ 10'-0" EXECUTION

HOLD WOOD FRAMING AWAY FROM CONCRETE FOUNDATION WALL 1/2 INCH.

PROVIDE SOLID BLOCKING AT MID SPAN FOR ANY STUD EXCEEDING 10'-0" IN HEIGHT. BRACE ALL EXTERIOR WALLS AND CROSS STUD PARTITIONS AS PER IRC R602 AND STRUCTURAL ENGINEERING AT EACH END OF THE BUILDING AND AT LEAST EVERY 25'-0" OF LENGTH BY ONE OF THE FOLLOWING. A. APPROVED STRUCTURAL SHEATHING OF A MINIMUM THICKNESS OF 7/16". COORDINATE WITH SHEAR WALL

B. FOR ADDITIONAL BRACED WALL PANEL CONSTRUCTION OPTIONS, EXCEPTIONS AND RESTRICTIONS SEE I.R.C TREATED AS PER FIRE-RATED WALL REQUIREMENTS. SECTION R602.10. COORDINATE W/ STRUCTURAL FOR SEISMIC AND ANY SPECIAL REQUIREMENTS. C. BRACED WALL LINE SILLS SHALL HAVE PLATE WASHERS A MINIMUM OF 3/16" BY 3" X 3" (IRC R602)

TOLERANCE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL FRAMING OF WALLS WITH THE FOLLOWING TOLERANCES. CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL FRAMING THAT DO NOT MEET THE REQUIRED TOLERANCES PROVIDE BLOCKING AT ALL PANEL EDGES

1. ALL WALLS SHALL BE STRAIGHT, AND SHALL NOT HAVE GREATER THAN 1/4" ANY BOW, DEFLECTION, IN

2. ALL WALLS SHALL BE VERTICAL PLUMB, AND SHALL NOT EXCEED 1/4" FOR EACH 10'-0" VERTICAL SECTION OR STORY OF WALL. 3. ALL HORIZONTAL SOFFIT, WINDOW HEAD SHALL BE LEVEL, AND SHALL NOT EXCEED 1/8" VARIATION WITHIN

# 06-07, 06-08, 06-09 WOOD BLOCKING/FIREBLOCKING

FIRE BLOCKING SHALL BE CONSTRUCTED OF 2" NOMINAL LUMBER OR (2) THICKNESS OF 1" NOMINAL LUMBER WITH BROKEN LAP JOINTS (302.11.1) OR OTHER MATERIALS APPROVED OR TESTED, INSTALLED PER R302.11. FIRE BLOCKING SHALL BE

FIRE BLOCKING SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS. CONTRACTOR SHALL COORDINATE THESE

A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10-FOOT INTERVALS BOTH VERTICAL AND HORIZONTAL. (IRC 302.11 (1))

B. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS. (IRC 302.11 (2))

C. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN

STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED. (IRC 302.11 (3)

D. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS. WITH NON COMBUSTIBLE MATERIALS

> E. AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY-BUILT CHIMNEYS. (IRC 302.11 (5))

> F. WHERE WOOD SLEEPERS ARE USED FOR LAYING WOOD FLOORING ON MASONRY OR CONCRETE

FIRE-RESISTIVE FLOORS, THE SPACE BETWEEN THE FLOOR SLAB AND THE UNDERSIDE OF THE WOOD FLOORING SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL OR FIRE BLOCKED IN SUCH A MANNER THAT THERE WILL BE NO OPEN SPACES UNDER THE FLOORING WHICH WILL EXCEED 1000 SQUARE FEET IN AREA AND SUCH SPACE SHALL BE FILLED SOLIDLY UNDER ALL PERMANENT PARTITIONS SO THAT THERE IS NO COMMUNICATION UNDER THE FLOORING BETWEEN ADJOINING ROOMS. (IRC 302.12)

G. WALLS HAVING PARALLEL OR STAGGERED STUDS FOR SOUND TRANSMISSION CONTROL SHALL HAVE FIRE BLOCKS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIAL. (IRC 302.11 (1)). H. FIRE BLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF THE DWELLING UNIT

# 06-15 WOOD FURRING

SEPARATION. (IRC 302.11 (6))

2X4 AND 2 X 6 DOUGLAS FIR, HEM FIR #2 OR BETTERWOOD STUDS AS SHOWN ON DRAWINGS.

PROVIDE 2X WOOD STUDS AT 16" O.C. U.N.O.

EXCEEDING 10'-0" IN HEIGHT.

MEMBRANE INSTALLED BETWEEN CONCRETE AND EARTH, THE WOOD MAY BE UNTREATED AND OF ANY SPECIES.

BOLT HOLES: CUT, DRILL, OR PUNCH STANDARD BOLT HOLES PERPENDICULAR TO METAL SURFACES. PROVIDE HOLES

BELOW GRADE EXCEPT WHERE AN APPROVED BARRIER IS INSTALLED BETWEEN THE WALL AND THE WOOD, SHALL BE REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL AND FOR PASSAGE OF OTHER WORK THROUGH STEEL

TREATED OR RESISTANT TO DECAY. (I.R.C. R317.1 (7)). PROVIDE SOLID BLOCKING AT MID SPAN FOR ANY STUD EXCEEDING 10'-0" IN HEIGHT.

WOOD FURRING OR FRAMING ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS

BRACE ALL EXTERIOR WALLS AND CROSS STUD PARTITIONS AS PER IRC R602 AND STRUCTURAL ENGINEERING AT EACH END OF THE BUILDING AND AT LEAST EVERY 25'-0" OF LENGTH BY ONE OF THE FOLLOWING.

APPROVED STRUCTURAL SHEATHING OF A MINIMUM THICKNESS OF 7/16". COORDINATE WITH SHEAR WALL SCHEDULE FOR ADDITIONAL BRACED WALL PANEL CONSTRUCTION OPTIONS, EXCEPTIONS AND RESTRICTIONS SEE I.R.C SECTION R602.10. COORDINATE W/STRUCTURAL FOR SEISMIC AND ANY SPECIAL REQUIREMENTS.

BRACED WALL LINE SILLS SHALL HAVE PLATE WASHERS A MINIMUM OF 3/16" BY 3" X 3" (IRC R602) CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL FRAMING OF WALLS WITH THE FOLLOWING TOLERANCES.

CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL FRAMING THAT DO NOT MEET THE REQUIRED TOLERANCES

1. ALL WALLS SHALL BE STRAIGHT, AND SHALL NOT HAVE GREATER THAN 1/4" ANY BOW, DEFLECTION, IN 10'-0" LENGTH OF WALL. 2. ALL WALLS SHALL BE VERTICAL PLUMB, AND SHALL NOT EXCEED 1/4" FOR EACH

10'-0" VERTICAL SECTION OR STORY OF WALL. 3. ALL HORIZONTAL SOFFIT, WINDOW HEAD SHALL BE LEVEL, AND SHALL NOT EXCEED 1/8" VARIATION PROVIDE METAL STAIRS CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND WITHIN 10'-0" LENGTH.

> 06-22, 06-23 HEAVY TIMBER FRAMING timber beams/columns/trusses/roof purlins /haunches as shown on architectural/structural drawings

TIMBER BEAMS TO BE #1 OR BETTER, KILN DRIED 15% MOISTURE OR LESS.

COLOR: STAINED WITH SHERMA WILLIAMS SEMI-TRANSPARENT "HAWTHORNE"

COORDINATE WITH ARCHITECTURAL/STRUCTURAL DRAWINGS FOR CONNECTIONS AT EACH TIMBER.

SHOP DRAWINGS: ALL TIMBER JOISTS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. TIMBER CONTRACTOR/GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS PRIOR TO FABRICATION OF TIMBERS

ALL JOINTS SHALL BE TRUE AND SQUARE WITH TOLERANCES OF LESS THAN 1/8" WITHIN JOINT.

AS SELECTED BY ARCHITECT

TIMBER TO BE:

06-32 WOOD DECKING WOOD DECKING AT ALL EXTERIOR DECKS/WALKWAYS

WOOD DECKING SHALL BE: "GOLD DECKING" BY TRUGRAIN RESYSTA

WOOD USED IN CONSTRUCTION OF PERMANENT STRUCTURES AND LOCATED NEARER THAN 6 INCHES TO EARTH SHALL BE SUBMITTALS TREATED WOOD OR WOOD OF NATURAL RESISTANCE TO DECAY, AS DEFINED IN I.R.C. WHERE LOCATED ON CONCRETE SAMPLE OF ACTUAL SAMPLE WITH STAIN SAMPLE SELECTED FOR ARCHITECT APPROVAL.

# ATTACH WOOD DECKING TO FRAMING (SEE STRUCTURAL PLANS FOR SIZE) WITH HIDDEN FASTENER SYSTEM AS

1/2" EXTERIOR GRADE A.P.A. RATED SHEATHING OR AS PER STRUCTURAL. UNTREATED AND OF ANY SPECIES. INSTALL SILL SEALER FOAM UNDER ALL SILL PLATES AT CONCRETE FOUNDATION WALLS EXTENT OF WALL SHEATHING AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHEATHING MAY BE FIRE-TREATED AS PER FIRE-RATED WALL REQUIREMENTS.

> NAILING OF SHEATHING SHALL BE PER STRUCTURAL DRAWINGS. COORDINATE WITH STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.

### PROVIDE BLOCKING AT ALL PANEL EDGES. 06-41 PLYWOOD/ OSB ROOF SHEATHING

ROOF SHEATHING TO BE: 5/8" EXTERIOR GRADE A.P.A. RATED SHEATHING OR AS PER STRUCTURAL. EXTENT OF ROOF SHEATHING AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHEATHING MAY BE FIRE-

NAILING OF SHEATHING SHALL BE PER STRUCTURAL DRAWINGS, AND SHEATHING SHALL BE INSTALLED PERPENDICULAR TO

COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL HOLD DOWNS, HURRICANE TIES.

# 06-45 PLYWOOD/ OSB FLOOR SHEATHING

GENERAL/PRODUCTS
FLOOR SHEATHING TO BE: 3/4" T & G A.P.A. RATED SHEATHING OR AS PER STRUCTURAL.

EXTENT OF PLYWOOD FLOOR SHEATHING AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

NAILING OF PLYWOOD SHEATHING SHALL BE PER STRUCTURAL DRAWINGS.

PROVIDE BLOCKING AT ALL PANEL EDGES

#### PROVIDE CONTINUOUS CONSTRUCTION ADHESIVE AT ALL FLOOR SHEATHING TO FLOOR JOIST. 06-50 PRE-ENGINEERED ROOF TRUSSES

ARCHITECT/STRUCTURAL DRAWINGS SHALL SHOW INTENT AND LOCATION FOR ALL ENGINEERED TRUSSES. TRUSS MANUFACTURER IS REQUIRED TO DESIGN TRUSSES TO REQUIRED LOADS AS SPECIFIED ON STRUCTURAL DRAWINGS TO MEET INTENT SHOWN ON THE CONSTRUCTION DRAWINGS.

SHOP DRAWINGS: SUPPLIER SHALL PROVIDE SHOP DRAWINGS, CALCULATIONS, INCLUDING LAYOUT, PROFILES, AND INGINEERING FOR REVIEW BY STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY GENERAL CONTRACTOR PRIOR TO ENGINEER/ARCHITECT REVIEW.

COORDINATE WITH STRUCTURAL DRAWINGS FOR LAYOUT, HOLD DOWNS, HURRICANE TIES REQUIRED FOR INSTALLATION OF ROOF TRUSSES

# 06-55 PRE-ENGINEERED FLOOR JOISTS

RCHITECT/STRUCTURAL DRAWINGS SHALL SHOW INTENT AND LOCATION FOR ALL ENGINEERED JOISTS. JOIST MANUFACTURER MEET TO REQUIRED LOADS AS SPECIFIED ON STRUCTURAL DRAWINGS AND TO MEET INTENT SHOWN ON THE CONSTRUCTION DRAWINGS.

SHOP DRAWINGS: SUPPLIER SHALL PROVIDE SHOP DRAWINGS, CALCULATIONS, INCLUDING LAYOUT, PROFILES, AND ENGINEERING FOR REVIEW BY STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY GENERAL CONTRACTOR PRIOR TO ENGINEER/ARCHITECT REVIEW.

OORDINATE WITH STRUCTURAL DRAWINGS FOR LAYOUT, HOLD DOWNS, REQUIRED FOR INSTALLATION OF FLOOR JOISTS COORDINATE WITH OTHER TRADES (MECHANICAL/ELECTRICAL/PLUMBING, ETC) DURING LAYOUT TO ASSIST IN LAYOUT AND PENETRATIONS OF OTHER TRADES THROUGH FLOOR TRUSSES.

Joists under and parallel to Bearing Partitions shall be sized per engineer, or at minimum double joists. MEET REQUIEMENTS PER IRC 502.4.

A. A WHEN WOOD JOISTS OR THE BOTTOM OF WOOD STRUCTURAL FLOORS ARE LOCATED CLOSER THAN

INCHES OR WOOD GIRDERS ARE LOCATED CLOSER THAN 12 INCHES TO EXPOSED GROUND IN CRAWL SPACES OR

UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION, PROTECTION IS REQUIRED.

THE FLOOR ASSEMBLY, INCLUDING POSTS, GIRDERS, JOISTS AND SUBFLOOR, SHALL BE APPROVED WOOD OF NATURAL

RESISTANCE TO DECAY (AS LISTED IN I.R.C.) OR TREATED WOOD.

B. UNDER FLOOR AREAS SHALL BE PROVIDED WITH AN ACCESS AS PER I.R.C. SECTION R408.4.

# 06-56 PRE-ENGINEERED ROOF JOISTS

PROVIDE SOLID BLOCKING AT ALL BEARING POINTS

ARCHITECT/STRUCTURAL DRAWINGS SHALL SHOW INTENT AND LOCATION FOR ALL ENGINEERED JOISTS. JOIST MANUFACTURER MEET TO REQUIRED LOADS AS SPECIFIED ON STRUCTURAL DRAWINGS AND TO MEET INTENT SHOWN ON THE INTERIOR PACKAGE MUST MEET ALL APPLICABLE CODES FOR RAILINGS. THE CONSTRUCTION DRAWINGS.

HOP DRAWINGS: SUPPLIER SHALL PROVIDE SHOP DRAWINGS, CALCULATIONS, INCLUDING LAYOUT, PROFILES, AND ENGINEERING FOR REVIEW BY STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY GENERAL CONTRACTOR PRIOR TO ENGINEER/ARCHITECT REVIEW.

EXECUTION

COORDINATE WITH STRUCTURAL DRAWINGS FOR LAYOUT, HOLD DOWNS, HURRICANE TIES REQUIRED FOR INSTALLATION OF FRAMING MEMBERS.

#### COORDINATE WITH OTHER TRADES (MECHANICAL/ELECTRICAL/PLUMBING, ETC.) DURING LAYOUT TO ASSIST IN LAYOUT AND PENETRATIONS OF OTHER TRADES THROUGH JOISTS 06-58 STRUCTURAL LAMINATED BEAMS

, LAMINATED BEAMS AS SHOWN ON STRUCTURAL DRAWINGS, INCLUDING GLU-LAMINATED , LVL,LSL, PARALAMS, ETC GRADE: WHEN EXPOSED TO VIEW PROVIDE ARCHITECTURAL GRADE.

INSTALLATIONS SHALL BE PER DETAILS AND NOTED ON THE DRAWINGS. ALL JOIST AND BEAM HANGERS SHALL BE PER STRUCTURAL DRAWINGS, AND INTENDED FOR USE SHOWN. DO NOT USED

JOIST HANGERS NOT INTENDED FOR USE SPECIFIED. 06-59 STRUCTURAL COLUMNS

OLUMNS AS SHOWN ON STRUCTURAL DRAWINGS, INCLUDING GLU-LAMINATED , LVL,LSL, PARALAMS, DIMENSIONAL

LUMBER, ETC.

Installations shall be per details and noted on the drawings. COLUMNS AND POSTS LOCATED ON CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO THE WEATHER OR TO WATER SPLASH OR IN BASEMENTS AND WHICH SUPPORT PERMANENT STRUCTURES SHALL BE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING ABOVE FLOORS UNLESS APPROVED WOOD OF NATURAL RESISTANCE TO DECA' OR TREATED WOOD IS USED. THE PEDESTALS SHALL PROJECT AT LEAST 6 INCHES ABOVE EXPOSED EARTH AND AT LEAST 1 INCH ABOVE SUCH FLOORS. INDIVIDUAL CONCRETE OR MASONRY PIERS SHALL PROJECT AT LEAST 8 INCHES ABOVE

#### EXPOSED GROUND UNLESS THE COLUMNS OR POSTS WHICH THEY SUPPORT ARE OF APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD IS USED.

DRAWINGS AND DETAILS.

SOFFIT- 1 X 6 T & G CEDAR

MANUFACTURER:

06-62 EXTERIOR WOOD TRIM ALL EXTERIOR WOOD TRIM WORK AS SPECIFIED ON DRAWINGS AND DETAILS. CONTRACTOR TO COORDINATE WITH

CEDAR BOARDS WOOD TRIM TO BE: WOOD TRIM GRADE: SELECT WOOD TRIM FINISH TO BE: STAINED STAIN COLOR/MANUF TO BE: SHERMAN WILLIAMS SEMI-TRANSPARENT "HAWTHORNE" FASCIA AND SOFFIT TO BE :

FASCIA- CEDAR BOARDS BUILT-UP AS PER DETAILS IN THE DRAWINGS.

COLOR: SHERMAN WILLIAMS SEMI-TRANSPARENT "HAWTHORNE"

SUBMIT 12" SAMPLE OF EACH TYPE OF TRIM. FINISH AND EACH STAIN OR PAINT COLOR.

SHEATHING AND INTO STUD FRAMING MINIMUM OF 1". COUNTERSINK ALL NAIL HEADS.

ALL EXTERIOR WOODWORK TO BE PRE-PAINTED OR STAINED PRIOR TO INSTALLATION ON ALL SIDES OF TRIM. ALL INSTALLATION SHALL BE PER MANUFACTURERS OR APPLICABLE STANDARDS FOR INSTALLATION. NAIL ALL TRIM WITH GALVANIZED OR STAINLESS STEEL FINISH NAILS. ALL NAILING SHALL EXTEND THROUGH WALL

INSTALL SIDING AND TRIM OVER WALL VENTILATION MATRIX OVER TYVEK OR EQUAL VAPOR BARRIER.

# 06-75 INTERIOR STAIR FRAMING

ALL STAIR FRAMING AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS

UNLESS SPECIFIED ON DRAWINGS, CONTRACTOR SHALL PROVIDE 1 1/4" X 11 7/8" LVL STRINGERS AT INTERIOR STAIRS. PROVIDE ONE (1) STRINGER AT EACH SIDE, AND A MINIMUM OF TWO (2) STRINGERS BETWEEN. IN NO INSTANCE SHALL A STRINGER EXCEED 16" O.C. SPACING.

PROVIDE 5/4" HARDWOOD TREAD MATERIAL OVER 3/4" PLYWOOD STAIR TREAD. GLUE AND SCREW MATERIAL TO

PROVIDE 3/4" HARDWOOD RISER MATERIAL OVER 3/4" PLYWOOD STAIR RISER. GLUE AND SCREW MATERIAL TO

EXECUTION
STAIR CONSTRUCTION SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R311.7.

A. THE MINIMUM STAIRWAY WIDTH SHALL NOT BE LESS THAT 36 INCHES CLEAR WIDTH. HANDRAILS MAY PROJECT INTO THE REQUIRED WIDTH A DISTANCE OF 4 1/2 INCHES FROM EACH SIDE OF A STAIRWAY. IRC 311.7.1 FOR ADDITION WIDTH REQUIREMENTS OR FOR SPIRAL, CIRCULAR, WINDING STAIRS, ETC. REQUIREMENTS SEE I.R.C. SECTION R311.7.

INCHES. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS. THE GREATEST RISER HEIGHT OR TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

B. THE MAXIMUM STAIR RISER HEIGHT SHALL NOT EXCEED 7-3/4 INCHES AND THE MINIMUM STAIR TREAD DEPTH SHALL BE 10

C. LANDINGS: EVERY LANDING SHALL HAVE A DIMENSION NOT LESS THAN THE STAIRWAY. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OR TRAVEL. FOR LANDINGS WITH ADJOINING DOORS SEE I.R.C. SECTION R311.7.5.

D. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED

ON THE ENCLOSED SIDE WITH MINIMUM « INCH GYPSUM BOARD. (I.R.C. R302.7) E. HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING

# 06-84 INTERIOR STANDING AND RUNNING TRIM

THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (I.R.C. R311.7.2)

PROFILE AS SELECTED BY INTERIOR DESIGNER. PROFILE AS SELECTED BY INTERIOR DESIGNER. PROFILE AS SELECTED BY INTERIOR DESIGNER CROWN MOLD: WINDOW SILL: PROFILEAS SELECTED BY INTERIOR DESIGNER. MANUFACTURER: SEE INTERIOR DESIGNER DRAWINGS. MATERIAL: SEE INTERIOR DESIGNER DRAWINGS

CUSTOM AS SELECTED

COORDINATE WITH INTERIOR DRAWINGS FOR TYPE OF INTERIOR TRIM. TRIM TO BE EITHER PAINT OR STAIN GRADE

PROVIDE 12" LONG SAMPLE OF EACH FINISHED TRIM WITH SELECTED COLOR FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER.

06-85 INTERIOR STAIR RAILING ALL INTERIOR STAIR RAILING AS PER INTERIOR DESIGN DRAWINGS. AND ARE NOT INCLUDED WITHIN THE SHELL PACKAGE

INSTALL INTERIOR FINISH TRIM AS SHOWN ON INTERIOR DRAWINGS.

HANDRAILS AND GUARDRAILS SHALL MEET FOLLOWING DESIGN LOADS. UNIFORM LOAD OF 50 LBF/ FT. APPLIED IN ANY DIRECTION. CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION

OF THE BUILDING. SEE INTERIOR DESIGN PACKAGE.

ALL TRIM MUST BE LEVEL AND PLUMB.

UNIFORM LOAD OF 50 LBF/ FT. APPLIED IN ANY DIRECTION. CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.

SEE GENERAL NOTE #18 ON SHEET G002 FOR GUARDRAIL REQUIREMENTS

06-90 INTERIOR WOOD BEAMS

UNIFORM LOAD OF 25 LBF/SQ. FT. APPLIED HORIZONTALLY.

06-89 INTERIOR WOOD COLUMNS ALL INTERIOR WOOD COLUMNS WORK SHALL BE SPECIFIED ON INTERIOR DESIGN DRAWINGS. COLUMNS TO BE EITHER PAINT OR STAIN GRADE. CONTRACTOR SHALL REFER TO INTERIOR DRAWINGS FOR ALL DESIGN.

# PROVIDE 12" LONG SAMPLE OF EACH FINISHED TRIM WITH SELECTED COLOR FOR APPROVAL BY ARCHITECT/INTERIOR

CONCENTRATED LOAD OF 50 LBS APPLIED HORIZ. ON AN AREA OF 1 SQ. FT.

ALL INTERIOR WOOD BEAM WORK SHALL BE SPECIFIED ON INTERIOR DESIGN DRAWINGS. COLUMNS TO BE EITHER PAINT OR STAIN GRADE. CONTRACTOR SHALL REFER TO INTERIOR DRAWINGS FOR ALL DESIGN.

PROVIDE 12" LONG SAMPLE OF EACH FINISHED TRIM WITH SELECTED COLOR FOR APPROVAL BY ARCHITECT/INTERIOR

**DIVISION 7-THERMAL AND MOISTURE PROTECTION** 07-01 SPRAY APPLIED FOUNDATION DAMP PROOFING

FOUNDATION DAMP PROOFING AS SHOWN ON DRAWINGS FOR BELOW GRADE DAMP PROOFING OF WALLS AND DAMPPROOFING SHALL BE: HENRY HD789 FIBERED ASPHALT EMULSION DAMPPROOFING

PRODUCT DATA FOR SPECIFIED PRODUCT. PROVIDE SAMPLES, WARRANTIES, ETC. FOR REVIEW/APPROVAL BE SURE SURFACES IS CLEAN AND IN GOOD REPAIR. SURFACE MUST BE FREE OF DIRT, RESIDUES, WATER REPELLENT COMPOUNDS.

ALL HOLES, CRACKS AND RECESSED JOINTS MUST BE FILLED WITH CEMENT MORTAR FOR A SMOOTH, CLEAN SURFACE.

PROVIDE TWO (2) COAT SYSTEM WITH A BASE COAT APPLIED AT A RATE OF 1.5 GAL PER 100 SQ. FT. ALLOW 24 HOURS

SEE SECTION 31-06 -DEWATERING, FOR REQUIREMENTS, SPECIFICATIONS, SUBMITTALS, ETC.

DRYING PRIOR TO SECOND COAT APPLIED AT 2 GAL. PER 100 SQ. FT. ALLOW 48 HOURS DRYING PRIOR TO BACK FILL. DO NOT APPLY BELOW 50 DEGREE AIR TEMPATURE.

TAKE CARE DURING BACKFILL TO NOT DAMAGE DAMPPROOFING.

MEMBRANCE MANUFACTURE TO BE

OTHER TERMINATION CONDITIONS.

TEMPERATURE IS BELOW 0 DEG F.

FOUNDATION DRAIN:

07-02 SPRAY APPLIED FOUNDATION WATERPROOFING RUBBERIZED-ASPHALT WATERPROOFING MEMBRANE, REINFORCED WITH MOLDED-SHEET DRAINAGE PANELS, AND INSULATION WHERE SHOWN ON DRAWINGS.

CARLISLE COATINGS & WATERPROOFING INC.; CCW-500R OR EQUAL. CARLISLE COATINGS & WATERPROOFING INC.: MIRADRAIN 2000 OR EQUAL FOUNDATION DRAIN:

SEE SECTION 31-03 "DEWATERING" FOR REQUIREMENTS, SPECIFICATIONS, SUBMITTALS, ETC

PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. SHOP DRAWINGS: SHOW LOCATIONS AND EXTENT OF WATERPROOFING. INCLUDE DETAILS FOR SUBSTRATE JOINTS AND

CRACKS, SHEET FLASHINGS, PENETRATIONS, INSIDE AND OUTSIDE CORNERS, TIE-INS TO ADJOINING WATERPROOFING, AND

WARRANTY PERIOD: [FIVE] YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

A FIRM THAT IS APPROVED OR LICENSED BY MANUFACTURER FOR INSTALLATION OF WATERPROOFING REQUIRED FOR THIS PROJECT AND IS ELIGIBLE TO RECEIVE SPECIAL WARRANTIES SPECIFIED. CONDUCT PRE-INSTALLATION CONFERENCE AT PROJECT SITE. APPLY WATERPROOFING WITHIN THE RANGE OF AMBIENT AND SUBSTRATE TEMPERATURES RECOMMENDED BY

WATERPROOFING MANUFACTURER. DO NOT APPLY WATERPROOFING TO A DAMP OR WET SUBSTRATE, OR WHEN

CLEAN AND PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE CLEAN, DUST-FREE, AND DRY SUBSTRATE FOR WATERPROOFING APPLICATION. REMOVE GREASE, OIL, FORM-RELEASE AGENTS, PAINTS, CURING COMPOUNDS, AND OTHER PENETRATING CONTAMINANTS OR FILM-FORMING COATINGS FROM CONCRETE. PREPARE AND TREAT SUBSTRATES TO RECEIVE WATERPROOFING MEMBRANE, INCLUDING JOINTS AND CRACKS, DECK DRAINS, CORNERS, AND PENETRATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

Architecture

Interior Design Landscape Architecture Land Planning

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The designs shown and described herein including

all technical drawings, graphic representation &

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PROJECT NC22023.32

**REVISIONS:** 

SHEET NUMBER:

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07-45, 07-46, 07-47, 07-49, 07-50, 07-51, 07-52, 07-53,

GENERAL/PRODUCTS SEE INSULATION SCHEDULE BELOW FOR LOCATION AND INSULATION REQUIREMENT

07-54 THERMAL INSULATION

A PERMANENT CERTIFICATE SHALL BE POSTED ON OR IN THE ELECTRICAL DISTRIBUTION PANEL LISTING THE PREDOMINANT R-VALUES OR INSULATION INSTALLED IN OR ON THE CEILING/ ROOF, WALLS, FOUNDATION SLAB, BASEMENT WALLS, CRAWL SPACE WALLS AND/ OR FLOOR, AND THE DUCTS OUTSIDE THE CONDITIONED SPACE, U-FACTORS OF THE WINDOWS. THE TYPE OF HEATING AND EFFICIENCY OF HEATING AND WATER HEATING EQUIPMENT SHALL ALSO BE LISTED. (I.R.C. N1101.8) LOCATION THICKNESS R-VALUE

200/11011	111 =	TI II OTA TEOU	IC TYTEOE	
SLAB ON GRADE	FOAM-IN-PLACE	2"	R-10	
INSTALL UNDER HEATED SLAB ON G	RADE LOCATIONS. OWEN	NS CORNING FORMU	_A 250	
PERIMETER OF FOUNDATION	RIGID	2"	R-10	
INSTALL ON INSIDE FACE OF EXTER		TOP OF FOOTING TO I	BOTTOM OF CONCRETE SLAB A	T LIVII

SPACE- BURIED - OWENS CORNING FO	DRMULA 250		
FLOOR INSULATION FLOOR OVER UNHEATED BASEMENT	UNFACED BATTS	VERIFY	R-30
FLOOR UNDER RADIANT HEAT	BLOWN-IN	12"	R-38
FLOOR OVER OUTSIDE OR UNHEATED AIR	BLOWN-IN	12"	R-38
WALL INSULATION AT EXTERIOR FRAME 2X6 WOOD EXTERIOR WALLS (BLOWN TO BE CERTAINTEED OPTIMA E 2 X 4 WOOD FURRED-EXTERIOR WALLS (CERTAINTEED CertaSpray with 2.0 pcf	BLOWN-IN BLOWN-IN BIB SYSTEM) CLOSED-CELL FOAM	5 1/2" 3 1/2"	R-22.5 R-22.75

(CERTAINTEED CONSUSPICY WITH 2.0 per and it value of 0.0 per ineriff	
ROOF INSULATION	
ROOF AT SHALLOWER JOISTS:	
MULTI-LAYERS OF CONTINUOUS RIGID INSULATION WITH TOP LAYER OF	
NAILABLE RIGID INSULATION (HUNTER H-SHEILD PANELS) PLUS	
PLUS FULL DEPTH OF JOIST CAVITY	
(CERTAINTEED OPTIMA BLOWN-IN BIB SYSTEM)	TOTAL=
ROOF AT DEEPER JOISTS:	
MULTI-LAYERS OF CONTINUOUS RIGID INSULATION WITH TOP LAYER OF	
NAILABLE RIGID INSULATION (HUNTER H-SHELLD PANELS) PLUS	

R-24.5

R-38.0 R-49.0

MULTI-LAYE NAILABLE R PLUS FULL [	EEPER JOISTS: ERS OF CONTINUOUS RIGI IGID INSULATION (HUNTER DEPTH OF JOIST CAVITY EED OPTIMA BLOWN-IN BIE	R H-SHEILD PANELS		TOTAL=	R-24.5 <u>R-56.0</u> R-80.5
	ND SPECIALITY REQUIRED	INSULATION			
INTERIOR W	/alls sound	BATTS	3-1/2"		R11
AFOLIANIIO	SAL TUDE DOOLAS IALALIS A	ND ICEUINCE WILL			
MECHANIC	C <u>al type rooms walls a</u> Sound	BATTS	ERE APPLICABLE) 5"		R19
BATHROON		<i>b</i> / (113	J		K17
SOUND BA					
INSULATION	N BATTS	BATTS	5 1/2" OR 3 1/	/2"	R-11 - R19
INITEDIAD EI	OOD(/				
INTERIOR FI	DUND RATING REQ'D	BATTS	3 1/2"		R-11
CEILING 2C	DOIND KAIIING KEWD	DAIIS	3 1/2		K-11

DBL. FACED 1/2" VINYL FACED STUD CAVITY WITH PLUMBING DRAIN LINES SOUND BATTS/ PLUMBING DRAIN LINE SHALL BE INSULATED IN ADDITION TO THE CAVITY OF THE STUD WALL IS LOCATED WITHIN.

Provide manufacturere data and installation instructions and recommendations for review prior to INSTALLATION.

EXECUTION FILL ALL VOIDS AS REQUIRED.

FILL PER MANUFACTURERS STANDARD INSTALLATION REQUIREMENTS.

PROVIDE R-25 MINIMUM CLOSED CELL INSULATION ABOVE ANY CEILING PENETRATIONS AT UNVENTED ROOF ASSEMBLIES.

# 07-55 ATTIC ACCESS

OR TAPE. ENSURE WEEPS ARE NOT BLOCKED.

ATTIC ACCESS TO MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R807.

ATTIC ACCESS OPENING SHALL BE PROVIDED TO ATTICS OF BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30 INCHES OR GREATER. THE OPENING SHALL BE LOCATED IN A CORRIDOR. HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THE ROUGH FRAME OPENING SHALL NOT BE LESS THAN 22 INCHES X 30 INCHES. A 30 INCH MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED ABOVE THE OPENING. SEE I.R.C. SECTION R807. FOR ACCESS REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED IN ATTICS SEE I.R.C. SECTION M1305.1.3

# 07-66 BUILDING WEATHER AND VAPOR BARRIER

WEATHER BARRIER MEMBRANE; DUPONT -TYVEK- HOMEWRAP OR EQUAL DUPONT- TYVEK TAPE OR EQUAL SEAM TAPE DUPONT- FLEXWRAP OR EQUAL

COORDINATE WITH MANUFACTURES STANDARDS FOR INSTALLATION. REVIEW REQUIREMENTS FOR SEQUENCING OF INSTALLATION OF WEATHER BARRIER ASSEMBLY WITH INSTALLATION OF WINDOWS, DOORS, LOUVERS AND FLASHINGS TO PROVIDE A WEATHER-TIGHT BARRIER ASSEMBLY.

VERIFY SUBSTRATE AND SURFACE CONDITIONS ARE IN ACCORDANCE WITH WEATHER BARRIER MANUFACTURER

RECOMMENDED TOLERANCES PRIOR TO INSTALLATION OF WEATHER BARRIER AND ACCESSORIES.

INSTALL WEATHER BARRIER OVER EXTERIOR FACE OF EXTERIOR WALL SUBSTRATE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

START WEATHER BARRIER INSTALLATION AT A BUILDING CORNER, LEAVING 6-12 INCHES OF WEATHER BARRIER EXTENDED

BEYOND CORNER TO OVERLAP.

INSTALL WEATHER BARRIER IN A HORIZONTAL MANNER STARTING AT THE LOWER PORTION OF THE WALL SURFACE. MAINTAIN WEATHER BARRIER PLUMB AND LEVEL.

EXTEND BOTTOM ROLL EDGE OVER SILL PLATE INTERFACE 2" TO 3" MINIMUM, SEAL WEATHER BARRIER WITH SEALANT OR TAPE. SHINGLE WEATHER BARRIER OVER BACK EDGE OF THRU-WALL FLASHINGS AND SEAL WEATHER BARRIER WITH SEALANT

SUBSEQUENT LAYERS SHALL OVERLAP LOWER LAYERS A MINIMUM OF 6 INCHES HORIZONTALLY IN A SHINGLING MANNER

WINDOW AND DOOR OPENINGS: EXTEND WEATHER BARRIER COMPLETELY OVER OPENINGS.

ATTACH WEATHER BARRIER TO STUDS THROUGH EXTERIOR SHEATHING. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACED 12 -18 INCHES VERTICALLY ON CENTER ALONG STUD LINE, AND 24 INCH ON CENTER, MAXIMUM HORIZONTALLY.

ATTACH WEATHER BARRIER TO MASONRY. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACED 12 -18 INCHES VERTICALLY ON CENTER AND 24 INCHES MAXIMUM HORIZONTALLY. WEATHER BARRIER MAY BE TEMPORARILY ATTACHED TO MASONRY USING RECOMMENDED ADHESIVE, PLACED IN VERTICAL STRIPS SPACED 24 INCHES ON CENTER, WHEN COORDINATED ON THE PROJECT SITE. USE CLADDING FASTENERS AS PERMANENT MEANS OF

SEAL SEAMS OF WEATHER BARRIER WITH SEAM TAPE AT ALL VERTICAL AND HORIZONTAL OVERLAPPING SEAMS.

### 07-133 WOOD SIDING

HORIZONTAL SIDING; 1X4 SHIP-LAP-JOINTED (WITH 1/4" REVEAL) HORIZONTAL SIDING. TO BE CLEAR CEDAR STAINED SEMI-TRANSPARENT WITH SHERMAN WILLIAMS OR EQUAL. COLOR- "CEDAR BARK".

VERTICAL SIDING: 1X8 SHIP-LAP-JOINTED (WITH 1/8" REVEAL) VERTICAL SIDING. TO BE CLEAR SEDAR STAINED SEMI-TRANSPARENT WITH SHERMAN WILLIAMS OR EQUAL, COLOR-"CROSSROADS".

PROVIDE 12" X 12" SAMPLE OF EACH SIDING SPECIFIED WITH COLOR SPECIFIED.

OLLOW INSTALLATION INSTRUCTIONS SPECIFIED BY THE PRODUCT MANUFACTURER.

examine substrates for compliance with requirements for installation tolerances and other conditions AFFECTING PERFORMANCE OF SIDING AND RELATED ACCESSORIES, AND PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. AS FOR THE VERTICAL SIDING PROVIDE HORIZONTAL BLOCKING AT ALL LOCATION AS REQUIRED BY MNFR. RECOMMENDATIONS

INSTALL EXTERIOR SIDING FINISH OVER EXTERIOR WALL VENTILATION MATRIX OVER BUILDING WEATHER BARRIER AS PER MANUFACTURE SPECIFICATIONS AND INDUSTRY STANDARDS. SEE STRUCTURAL NOTES FOR DIAPHRAGM NAILING, HURRICANE TIE HOLD-DOWNS.

CLEAN FINISHED SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND MAINTAIN IN A CLEAN CONDITION DURING CONSTRUCTION.

SELECT SIDING BOARDS OF LONGEST POSSIBLE LENGTHS. DISCARD BOARDS THAT ARE WARPED, TWISTED, BOWED, CROOKED OR OTHERWISE DEFECTIVE.

INSTALLATION MUST COMPLY WITH LOCAL BUILDING CODES AND REGULATIONS.

OF RELATED WORK TO AVOID CUTTING AND PATCHING.

FINISH MATERIALS ON ALL SIDES AND ENDS. APPLY TOUCH UP COATING ON NEW CUTS. FACTORY PRIMED OR FINISHING IS PREFERRED.

EXPLAIN PROPER MAINTENANCE PROCEDURES TO OWNER OR OWNER'S REPRESENTATIVE AT PROJECT CLOSEOUT. THE USE OF PRESSURE WASHERS IS NOT RECOMMENDED.

## 07-155 SINGLE-PLY TPO DECK MEMBRANE

PROVIDE INSTALLED ROOFING MEMBRANE AND FLASHINGS THAT REMAIN WATERTIGHT; DO NOT PERMIT THE PASSAGE OF WATER; AND RESIST SPECIFIED UPLIFT PRESSURES, THERMALLY INDUCED MOVEMENT AND EXPOSURE TO WEATHER WITHOUT

PROVIDE ROOFING MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER UNDER SERVICE AND APPLICATION REQUIRED, AS DEMONSTRATED BY ROOFING MEMBRANE MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE. ROOF SYSTEM DESIGNED AND SUCCESSFULLY TESTED BY A QUALIFIED TESTING AND INSPECTING AGENCY TO WITHSTAND UPLIFT FORCES AS CALCULATED USING THE CURRENT VERSION OF ASCE 7.

ROOF SYSTEM WILL ACHIEVE A UL FIRE RATING WHEN TESTED IN ACCORDANCE WITH UL-790 AS REQUIRED BY LOCAL BUILDING CODE. MINIMUM RATING SHALL BE A UL CLASS B RATING. PROVIDE A ROOF SYSTEM WITH POSITIVE DRAINAGE WHERE ALL STANDING WATER DISSIPATES AFTER PRECIPITATION

BUILDING CODES: ROOF SYSTEM WILL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODE BODIES

MANUFACTURER WITH A MINIMUM OF TEN YEARS EXPERIENCE IN THE MANUFACTURING OF SINGLE-PLY HEAT WELDABLE

ROOFING CONTRACTOR SHALL BE AUTHORIZED BY ROOFING SYSTEM MANUFACTURER TO INSTALL ASSEMBLY. PROVIDE LETTER ON MANUFACTURER'S LETTERHEAD OF AUTHORIZED STATUS OF CONTRACTOR.

LOW-SLOPE ROOF APPLICATIONS. A MANUFACTURER'S REPRESENTATIVE SHALL INSPECT THE INSTALLATION FOR COMPLIANCE WITH MANUFACTURER'S TANDARDS UPON COMPLETION OF THE ROOFING SYSTEM.DEVIATIONS OR CHANGES FROM THE CONTRACT

TANDARD TOTAL SYSTEM WARRANTY SHALL BE ISSUED UPON ACCEPTANCE OF THE ROOFING SYSTEM INSTALLATION.

SPECIFICATION SHALL HAVE WRITTEN APPROVAL FROM THE ROOFING MANUFACTURER, FOR PRESENTATION TO

TWENTY (20) YEAR PERIOD THAT COVERS WIND DAMAGE UP TO 70 MPH. ACCEPTABLE MANUFACTURER: FIBERTITE, DOW ROOFING SYSTEMS, CARLILE ROOFING, OR APPROVED EQUAL REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SUBSTITUTION MATERALS.

ROOFING MEMBRANE SHALL BE MANUFACTURED WITH THE FOLLOWING PROPERTIES: B. MEMBRANE THICKNESS: 30 MI C. COLOR: ENERGY EFFICIENT GREY

D\_FLASHINGSYMEMBRANE;SHALLO:0'KO INCHY[1.52MM] THICK REINFORCEDYMEMBRANE;FOR WALLS AND CURBS REGARDLESS OF ROOF COVER SHEET THICKNESS. SHALL BE .060 INCH (1.52 MM)-THICK UNSUPPORTED MEMBRANE FOR FIELD-FABRICATED DETAILS USED FOR MAKING FIELD FLASHINGS THAT REQUIRE HIGHER EXTENSIBILITY THAN IS ALLOWED WITH SCRIM-REINFORCED MEMBRANE E. COVER BOARD: DENSDECK ROOF BOARDS: G-P GYPSUM CORPORATION 1/2 INCH (12 MM) DENSDECK ROOF BOARD.

GLASS MAT FACED GYPSUM WITH SPECIALLY TREATED GYPSUM CORE THAT RESISTS MOISTURE AND MOLD GROWTH. PRODUCT DATA;, INCLUDING:MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED; PREPARATION

INSTRUCTIONS AND RECOMMENDATIONS; STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS; AND INSTALLATION METHODS. SAMPLES FOR VERIFICATION FOR THE FOLLOWING PRODUCTS INCLUDING; MANUFACTURER'S STANDARD SAMPLE SIZE

OF SHEET ROOFING OF COLOR SPECIFIED; MANUFACTURER'S STANDARD SAMPLE SIZE OF ROOF INSULATION; MANUFACTURER'S STANDARD SAMPLE SIZE OF WALKWAY PADS OR ROLLS. SHOP DRAWINGS INCLUDING OUTLINE AND SIZE OF THE ROOF, LOCATION AND TYPE OF PENETRATIONS, PERIMETER AND

PENETRATION FLASHING DETAIL REFERENCES TO MANUFACTURE'S STANDARD. DETAILS WHICH DO NOT CONFORM TO ROOFING MANUFACTURER'S STANDARDS SHALL BE IDENTIFIED WITH SEPARATE APPROVAL FROM ROOFING MANUFACTURER. DETAILS TO BE EMPLOYED ON THE PROJECT SHALL BE APPROVED BY ROOFING MANUFACTURER.

SUBMIT WARRANTY CERTIFICATION FROM MANUFACTURER OF APPROVAL OF PROJECT DESIGN AND INTENT TO ISSUE WARRANTY, AND FASTENER PULL TESTS FROM AN INDEPENDENT TESTING AGENCY SHALL BE APPROVED BY THE ROOFING MANUFACTURER.

OO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED. NAILERS AND BLOCKING SHALL BE INSTALLED LEVEL. TRUE TO LINE AND ELEVATION, SECURED TO ROOF STRUCTURE TO RESIST ROOF INSTALLATION AND SERVICE CONDITIONS. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING. SURFACES TO BE BONDED SHALL BE DRY, CLEAN AND FREE OF DEBRIS. SUITABLE SURFACES ARE USUALLY CONSIDERED TO BE SMOOTH: SOLID MASONRY, WOOD AND METAL, PLUS INSULATION BOARDS FASTENED PER THE SPECIFIC MANUFACTURER'S RECOMMENDATIONS FOR RECEIVING ADHERED ROOFING MEMBRANES.

all fasteners should be installed with a depth-sensing screw gun to prevent over driving or under DRIVING. BLOCK OFF OR SHUT DOWN POSITIVE PRESSURE BUILDING VENTILATION SYSTEMS DURING APPLICATION TO PREVENT SHEET FROM BILLOWING DURING APPLICATION.

VERIFY ALL ROOFTOP MECHANICAL UNITS ARE TO HAVE THEIR CONDENSATION LINES PIPED TO DRAINS, OR OFF THE ROOF PLYWOOD MUST BE EXTERIOR GRADE WITH AN A OR B FINISH SIDE UP AND WITH NO JOINTS GAPPED GREATER THAN 1/4 INCH, AND PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

PROVIDE TEMPORARY BALLAST IN PARTIALLY COMPLETED SECTIONS TO CONTROL WIND EFFECTS DURING

## 07-164 METAL SHEET BATTEN-SEAM ROOFING 07-164 METAL SHEET BATTEN-SEAM ROOFING

GENERAL/PRODUCIS ARCHITECTURAL METAL ROOFING: BONDERIZED METAL MBCI- MANUFACTURE COLOR- TO MATCH BENJAMIN MOORE HC-167 "AMHERST GRAY". DETAILS- CRAFTSMAN SERIES SB

SECONDARY ROOFING MEMBRANE - GRACE ICE & WATER SHIELD HT

SAMPLES FOR VERIFICATION OF SHINGLE SIZE AND COLOR WARRANTIES: SAMPLE OF SPECIAL WARRANTIES.

ROOFING AND RELATED ITEMS TO BE INSTALLED AS PER MANUFACTURER

ROOFING TO BE INSTALLED OVER SECONDARY ROOFING MEMBRANE (ENTIRE ROOFING SURFACE)

ROOFING SYSTEM TO BE INSTALLED OVER EXTERIOR GRADE A.P.A. RATED SHEATHING (RUN PERPENDICULA RAFTERS) OVER ROOF FRAMING AS PER STRUCTURAL PLANS.

SEE STRUCTURAL NOTES FOR DIAPHRAGM NAILING, HURRICANE TIE HOLD-DOWNS.

### 07-170, 171, 172, 173, 174, 175, 176, SHEET METAL FLASHING AND TRIM

APPROVED CORROSION RESISTANT FLASHING SHALL BE PROVIDED IN THE EXTERIOR WALL ENVELOPE IN SUCH A MANNER AS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS.

> DRIP METAL WINDOW HEAD FLASHING DOOR HEAD FLASHING TRANSITIONAL FLASHING

SHOW INSTALLATION LAYOUTS OF SHEET METAL FLASHING AND TRIM, INCLUDING PLANS, ELEVATIONS, EXPANSION-JOINT LOCATIONS, AND KEYED DETAILS. DISTINGUISH BETWEEN SHOP- AND FIELD-ASSEMBLED WORK.

INCLUDE DETAILS FOR FORMING, JOINING, SUPPORTING, AND SECURING SHEET METAL FLASHING AND TRIM, INCLUDING PATTERN OF SEAMS, TERMINATION POINTS, FIXED POINTS, EXPANSION JOINTS, EXPANSION-JOINT COVERS, EDGE CONDITIONS, SPECIAL CONDITIONS, AND CONNECTIONS TO ADJOINING WORK.

SELF-ADHERING, HIGH-TEMPERATURE SHEET: MINIMUM 30 TO 40 MILS THICK, CONSISTING OF SLIP-RESISTING POLYETHYLENE-FILM TOP SURFACE LAMINATED TO LAYER OF BUTYL OR SBS-MODIFIED ASPHALT ADHESIVE, WITH RELEASE-PAPER BACKING; COLD APPLIED.

FLASHING AND TRIM SYSTEM.

SLIP SHEET: BUILDING PAPER, 3-LB/100 SQ. FT. MINIMUM, ROSIN SIZED. COORDINATE WORK WITH RELATED TRADES; SCRIBE AND COPE SIDING BOARDS FOR ACCURATE FIT. ALLOW INSTALLATION ANCHOR SHEET METAL FLASHING AND TRIM AND OTHER COMPONENTS OF THE WORK SECURELY IN PLACE, WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT SO THAT COMPLETED SHEET METAL FLASHING AND TRIM SHALL

NOT RATTLE, LEAK, OR LOOSEN, AND SHALL REMAIN WATERTIGHT. USE FASTENERS, SOLDER, WELDING RODS, PROTECTIVE

INSTALL SHEET METAL FLASHING AND TRIM TRUE TO LINE AND LEVELS INDICATED. PROVIDE UNIFORM, NEAT SEAMS WITH

COATINGS, SEPARATORS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED TO COMPLETE SHEET METAL

MINIMUM EXPOSURE OF SOLDER, WELDS, AND SEALANT. INSTALL SHEET METAL FLASHING AND TRIM TO FIT SUBSTRATES AND TO RESULT IN WATERTIGHT PERFORMANCE. VERIFY SHAPES AND DIMENSIONS OF SURFACES TO BE COVERED BEFORE FABRICATING SHEET METAL.

SPACE CLEATS NOT MORE THAN 12 INCHES APART. ANCHOR EACH CLEAT WITH TWO FASTENERS. BEND TABS OVER

INSTALL EXPOSED SHEET METAL FLASHING AND TRIM WITHOUT EXCESSIVE OIL CANNING, BUCKLING, AND TOOL MARKS. WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY SMACNA.

PROVIDE FOR THERMAL EXPANSION OF EXPOSED FLASHING AND TRIM.

SEAL JOINTS AS SHOWN AND AS REQUIRED FOR WATERTIGHT CONSTRUCTION.RETAIN FIRST PARAGRAPH BELOW FOR METALLIC-COATED STEEL AND COPPER ROOFING, UNLESS THE METAL IS PAINTED OR COATED.

CLEAN EXPOSED METAL SURFACES OF SUBSTANCES THAT INTERFERE WITH UNIFORM OXIDATION AND WEATHERING. APPROVED FLASHING SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS BUT NOT LIMITED TO. SEE I.R.C. SECTION

FOR SELF-FLASHING WINDOWS HAVING A CONTINUOUS LAP OF NOT LESS THAN 1 1/8 INCH OVER THE SHEATHING

AT THE TOP OF ALL EXTERIOR WINDOW AND DOOR OPENINGS IN SUCH A MANNER AS TO BE LEAK PROOF. AN EXCEPTION

AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.

AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.

UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.

CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIMS.

MATERIAL AROUND THE PERIMETER OF THE OPENING, INCLUDING CORNERS.

PROVIDE ROOFING SYSTEM THAT IS LISTED ON THE DOE'S ENERGY STAR "ROOF PRODUCTS QUALIFIED PRODUCT LIST" FOR WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD FRAME CONSTRUCTION, AND AT WALL AND ROOF INTERSECTIONS AND AT BUILT-IN GUTTERS.

# 07-183 METAL GUTTERS/DOWNSPOUTS

**GUTTERS SHALL BE:** SQUARE AS PER DETAILS DOWNSPOUTS SHALL BE: ROUND DOWNSPOUTS. METAL FINISH PRE-FINISHED ALUM. COLOR TO MATCH METAL ROOFING.

PROVIDE 12" LONG SAMPLE OF EACH DOWNSPOUT AND GUTTER IN MATERIAL SPECIFIED. (ELECTRICAL CONTRACTOR TO PROVIDE SPECIFICATION OF HEAT TAPE WITH VOLTAGE FOR HEAT TAPE AT CHAIN AT

INSTALL AT LOCATIONS SHOWN ON PLANS.

ALL GUTTERS SHALL SLOPE A MINIMUM OF 1/8" PER FOOT FOR DRAINAGE TO DOWNSPOUTS

FABRICATE HANGING GUTTER TO CROSS SECTION INDICATED, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER ACCESSORIES AS REQUIRED. FABRICATE IN CONTINUOUS SECTIONS BETWEEN CORNERS. FABRICATE EXPANSION JOINTS, EXPANSION-JOINT COVERS AND GUTTER ACCESSORIES FROM SAME METAL AS GUTTERS.

JOIN SECTIONS WITH RIVETED AND SOLDERED JOINTS OR WITH LAPPED JOINTS SEALED WITH SEALANT. PROVIDE FOR THERMAL EXPANSION. ATTACH GUTTERS AT EAVE OR FASCIA TO FIRMLY ANCHORED GUTTER BRACKETS SPACED NOT MORE THAN 36 INCHES APART. PROVIDE END CLOSURES AND SEAL WATERTIGHT WITH SEALANT. SLOPE TO

FABRICATE RECTANGULAR DOWNSPOUTS COMPLETE WITH MITERED ELBOWS. FURNISH WITH METAL HANGERS, FROM SAME MATERIAL AS DOWNSPOUTS, AND ANCHORS

JOIN DOWNSPOUT SECTIONS WITH 1-1/2-INCH TELESCOPING JOINTS. PROVIDE HANGERS WITH FASTENERS DESIGNED TO HOLD DOWNSPOUTS SECURELY TO WALLS. LOCATE HANGERS AT TOP AND BOTTOM AND AT APPROXIMATELY 60 INCHES

# 07-211, 07-212, 07-213, 07-214, 07-215, 07-216, 07-217

PROVIDE ELASTOMERIC JOINT SEALANTS THAT ESTABLISH AND MAINTAIN WATERTIGHT AND AIRTIGHT CONTINUOUS JOINT GLAZED. SEALS WITHOUT STAINING OR DETERIORATING JOINT SUBSTRATES.

PROVIDE JOINT SEALANTS FOR INTERIOR APPLICATIONS THAT ESTABLISH AND MAINTAIN AIRTIGHT AND WATER-RESISTANT

PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND SURFACE. WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.

CONTINUOUS JOINT SEALS WITHOUT STAINING OR DETERIORATING JOINT SUBSTRATES.

CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS

REMOVE ALL FOREIGN MATERIAL FROM JOINT SUBSTRATES THAT COULD INTERFERE WITH ADHESION OF JOINT SEALANT PROVIDE CAULKING AT INTERIOR AND EXTERIOR AT ALL JOINTS BETWEEN DISSIMILAR MATERIALS WITH A CONTINUOUS

SILICONE SEALANT SHOULD NOT BE USED ON EXTERIOR JOINTS - ONLY POLYURETHANE OR POLYSULFIDE SEALANTS. BUTYL SEALANTS SHOULD BE USED BETWEEN METAL LAPS WHERE MOVEMENT IS ANTICIPATED.

# **DIVISION 8-OPENINGS**

08-25 EXTERIOR WOOD DOOR

SEE DOOR SCHEDULE FOR ALL SIZES, STYLES, AND OPERATION. CUSTOM ENTRY DOOR- BY MILL SELECTED **SPECIES** SHERWIN WILLIAMS SEMI-TRANSPARENT, "CROSSROADS" COLOR

VERIFY ALL DOOR ROUGH OPENINGS BEFORE ORDERING

PROVIDE WARRANTY INFORMATION FOR GLAZING, WOOD COMPONENTS, HARDWARE, CLADDING, AND EXTERIOR PAINT PROVIDE EUROPEAN STYLE MOUNTING, TYPICAL FINISH (ADHESION, CHALK, AND FADE)

PROVIDE SHOP DRAWINGS SHOWING EACH DOOR, HARDWARE, OPERATIONS, SPECIFIED ON DRAWINGS

ALL DOORS SHALL BE INSTALLED PER MANUFACTURES STANDARD INSTALLATION REQUIRMENTS.

APPROVED BY ARCHITECT/OWNER. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOOR NOT LESS THAN 1 3/8 INCH IN THICKNESS, SOLID OR HONEY COMB CORE STEEL DOORS NOT LESS THAN 1 3/8 INCHES THICK, OR 20 MINUTE FIRE RATED DOORS. SEE IRC 302.5.

ALL DOORS SHALL BE INSTALLED TRUE AND PLUMB AND SHALL OPERATE. ADJUST ALL DOORS FOR OPERATIONS AS

## 08-26 INTERIOR WOOD DOOR

SEE DOOR SCHEDULE FOR ALL SIZES, STYLES, AND OPERATION. AS SELECTED BY BIDDING MANUF. SPECIES: SEE INTERIOR DESIGN DRAWINGS CUSTOM STAIN BY INTERIOR DESIGNER

VERIFY ALL DOOR ROUGH OPENINGS BEFORE ORDERING

PROVIDE WARRANTY INFORMATION FOR GLAZING, WOOD COMPONENTS, HARDWARE, CLADDING, AND EXTERIOR PAINT DOOR OR ACCESS TO AN ADJOINING BEDROOM WITH AN EMERGENCY ESCAPE AND RESCUE WINDOW. BASEMENTS WITH FINISH (ADHESION, CHALK, AND FADE)

PROVIDE SHOP DRAWINGS SHOWING EACH DOOR, HARDWARE, OPERATIONS, SPECIFIED ON DRAWINGS

all doors shall be installed per manufactures standard installation requirments. ALL DOORS SHALL BE INSTALLED TRUE AND PLUMB AND SHALL OPERATE. ADJUST ALL DOORS FOR OPERATIONS AS

APPROVED BY ARCHITECT/OWNER. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOOR NOT LESS THAN 1 3/8

#### RATED DOORS. SEE IRC 302.5. 08-39 EXTRUDED ALUMINUM WOOD SLIDING DOORS

INCH IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8 INCHES THICK, OR 20 MINUTE FIRE

SEE WINDOW SCHEDULE FOR ALL SIZES AND OPERATION.

LOEWEN, WINDSOR, JELD-WEN, KOLBE, MARVIN, WINDOW MANUFACTURER: WINDOW STYLE SHALL BE: AS SHOWN ON DRAWINGS PROVIDE SCREENS AND HARDWARE FOR ALL OPERABLE UNITS. COLOR OF SCREENS TO BE: AS DETERMINED BY ARCHITECT.

PROVIDE DOUBLE PANE INSULATED LOW "E" GLAZING UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH ENERGY CODE SUBMITTAL FOR U VALUES. GLAZING SHALL BE CARDINAL 365 GLAZING - NO EXCEPTION

PROVIDE SPACER BARS WHERE SDL'S ARE USED

HARDWARE TO HAVE MULTI-POINT LOCKING SYSTEM

ALL FIXED GLAZING TO BE SASH SET

OPERATIONAL REQUIREMENTS.

WOOD WINDOWS WITH EXTRUDED ALUMINUM CLAD EXTERIOR BOTH FRAME AND SASH- NO EXCEPTIONS. EXTERIOR CLAD PAINT FINISH TO MEET AAMA 2605 SPECIFICATIONS (70% KYNAR) COLOR AS PER OWNER AND ARCHITECT

BASEMENTS WITH HABITABLE SPACES SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE WINDOW OR DOOR OR ACCESS TO AN ADJOINING BEDROOM WITH AN EMERGENCY ESCAPE AND RESCUE WINDOW.BASEMENTS WITH SLEEPING ROOMS SHALL EACH HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE WINDOW OR

THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24"

VERIFY ALL WINDOW ROUGH OPENINGS BEFORE ORDERING

VERIFY THAT WINDOWS WILL MEET LIGHT, VENTILATION, AND EGRESS REQUIREMENTS (IRC R303 & R310) MINIMUM OPENING AREA FOR ALL WINDOWS IN BEDROOMS OR EMERGENCY SHALL HAVE A 5.75 SQ. FT OF

THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20" THE ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE, EXCEPT GROUND FLOOR, NET CLEAR OPENING AREA OF 5.0 SQUARE FEET. R310.1.1 TO R310.1.4. WINDOW SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR. OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL. R310.1.

PROVIDE WARRANTY INFORMATION FOR GLAZING, HARDWARE, CLADDING, AND EXTERIOR PAINT FINISH (ADHESION, CHALK, AND FADE) PROVIDE SHOP DRAWINGS SHOWING EACH WINDOW FOR VERIFICATION OF SIZE SPECIFIED ON DRAWINGS AND

INSTALL DRIP FLASHING OVER HEADS OF ALL WINDOWS AT EXTERIOR (IRC R703.8) INSTALL FOAM INJECTED INSULATION SEALER AT ALL SHIM CAVITITIES INSTALLATION SHALL BE PER MANUFACTURES SPECIFICATION, AND SHALL BE REVIEWED BY WINDOW SUPPLIER AFTER INSTALLATION IS COMPLETE.

PROVIDE TEMPERED GLASS AS REQUIRED (IRC R308) A. SAFETY GLAZING SHALL BE INSTALLED IN HAZARDOUS LOCATIONS AND SHALL MEET THE FOLLOWING

B. EACH PANE OF GLASS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PERMANENTLY IDENTIFIED BY

MANUFACTURER, DESIGNATING THE TYPE, THICKNESS, AND SAFETY GLAZING STANDARD. THE LABEL ACID ETCHED, SANDBLASTED, CERAMIC FIRED OR EMBOSSED ON GLASS AND BE VISIBLE WHEN THE UNIT IS C. PROVIDE SAFETY GLAZING IN ALL DOORS INCLUDING SIDE HINGED DOORS, SLIDING DOORS, SLIDING PANELS, BIFOLD DOORS, STORM DOORS, FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST

EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED

POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING

D. PROVIDE SAFETY GLAZING IN WALLS ENCLOSING STAIRWAY LANDINGS OR WITHIN 36 INCHES OF THE TOP OR BOTTOM OF STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

E. PROVIDE SAFETY GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING OR WALKING SURFACE.

F. PROVIDE SAFETY GLAZING IN RAILINGS REGARDLESS OF AN AREA OR HEIGHT.

G. PROVIDE SAFETY GLAZING IN WALLS AND FENCES ENCLOSING SWIMMING POOLS OR HOT TUBS. WHERE THE BOTTOM EDGE OF THE POOL OR SPA GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

H. PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS THAT MEETS ALL OF THE FOLLOWING CONDITIONS: AREAS GREATER THAN 9 SQUARE FEET, BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR, TOP EDGE GREATER THAN 36 INCHES ABOVE FLOOR, AND WITHIN 36 INCHES OF WALKING SURFACE.

# 08-67 OVERHEAD SECTIONAL DOOR

SEE DOOR SCHEDULE FOR ALL SIZES AND OPERATION. DOOR MANUFACTURER: DOOR STYLE SHALL BE: AS SHOWN ON DRAWINGS COLOR: SHERMAN WILLIAMS SEMI-TRANSPARENT, "CROSSROADS"

VERIFY ALL DOOR ROUGH OPENINGS BEFORE ORDERING

PROVIDE WARRANTY INFORMATION FOR GLAZING, WOOD COMPONENTS, HARDWARE, CLADDING, AND EXTERIOR PAINT

PROVIDE SHOP DRAWINGS SHOWING EACH DOOR, HARDWARE, OPERATIONS, SPECIFIED ON DRAWINGS

INSTALL PER MANUFACTURER RECOMMENDED INSTALLATION PROCEDURES, CONTRACTOR SHALL COORDINATE ALL SUB CONTRACTORS TO MEET THESE REQUIREMENTS.

# 08-118 SHOWER DOOR

TEMPERED OR LAMINATED SAFETY GLASS FOR SHOWER DOORS OR SHOWER ENCLOSURES. SHOWER ENCLOSURES TO BE: EUROPEAN STYLE ALUMINUM FRAMED SHOWER ENCLOSURE

PROVIDE SAMPLES: 12-INCH SQUARE, FOR EACH TYPE OF GLASS PRODUCT INDICATED. PROVIDE GLAZING SCHEDULE: USE SAME DESIGNATIONS INDICATED ON DRAWINGS.

INSTALL DOORS TO SWING OUTWARD, TYPICAL. (2006 IRC R308 P2708.1)

# 08-132 EXTRUDED ALUMINUM CLAD WOOD WINDOWS

GENERAL/PRODUCTS SEE WINDOW SCHEDULE FOR ALL SIZES AND OPERATION. WINDOW MANUFACTURER: LOEWEN, WINDSOR, JELD-WEN, KOLBE

WINDOW STYLE SHALL BE: AS SHOWN ON DRAWINGS. PROVIDE SCREENS AND HARDWARE FOR ALL OPERABLE UNITS.

PROVIDE DOUBLE PANE INSULATED LOW "E" GLAZING UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH CEILINGS TO HAVE A SMOOTH LEVEL 4 FINISH. ENERGY CODE SUBMITTAL FOR U VALUES (U=0.30 AND SHGC=0.25 FOR WINDOWS OF GREAT ROOMS, UNLESS NOTED

PROVIDE SPACER BARS WHERE SDL'S ARE USED

ALL FIXED GLAZING TO BE SASH SET

HARDWARE TO HAVE MULTI-POINT LOCKING SYSTEM

WOOD WINDOWS WITH ALUMINUM CLAD EXTERIOR. EXTERIOR CLAD PAINT FINISH TO MEET AAMA 2605 SPECIFICATIONS (70% KYNAR) COLOR AS PER OWNER AND ARCHITECT

BASEMENTS WITH HABITABLE SPACES SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE WINDOW OR SLEEPING ROOMS SHALL EACH HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE WINDOW OR DOOR.

VERIFY ALL WINDOW ROUGH OPENINGS BEFORE ORDERING

VERIFY THAT WINDOWS WILL MEET LIGHT, VENTILATION, AND EGRESS REQUIREMENTS (IRC R303 & R310) 1.MINIMUM OPENING AREA FOR ALL WINDOWS IN BEDROOMS OR EMERGENCY SHALL HAVE A 5.75 SQ. FT OF

2.THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24".

3.THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20". 4.THE ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE, EXCEPT GROUND FLOOR, NET CLEAR OPENING AREA OF 5.0 SQUARE FEET. R310.1.1 TO R310.1.4. 5.WINDOW SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR. OPENINGS WITH A FINISHED

PROVIDE WARRANTY INFORMATION FOR GLAZING, HARDWARE, CLADDING, AND EXTERIOR PAINT FINISH. PROVIDE SHOP DRAWINGS SHOWING EACH WINDOW FOR VERIFICATION OF SIZE SPECIFIED ON DRAWINGS AND OPERATIONAL REQUIREMENTS.

SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL. R310.1.

INSTALL DRIP FLASHING OVER HEADS OF ALL WINDOWS AT EXTERIOR (IRC R703.8)

INSTALL FOAM INJECTED INSULATION SEALER AT ALL SHIM CAVITITIES

WHEN THE UNIT IS GLAZED.

INSTALLATION SHALL BE PER MANUFACTURES SPECIFICATIONS, AND SHALL BE REVIEWED BY WINDOW SUPPLIER AFTER

PROVIDE TEMPERED GLASS AS REQUIRED (IRC R308). SAFETY GLAZING SHALL BE INSTALLED IN HAZARDOUS LOCATIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS: 1- EACH PANE OF GLASS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PERMANENTLY IDENTIFIED BY MANUFACTURER, DESIGNATING THE TYPE, THICKNESS, AND SAFETY GLAZING STANDARD. THE LABEL SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC FIRED OR EMBOSSED ON GLASS AND BE VISIBLE

PROVIDE SAFETY GLAZING IN ALL DOORS INCLUDING SIDE HINGED DOORS, SLIDING DOORS,

NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING 3- PROVIDE SAFETY GLAZING IN WALLS ENCLOSING STAIRWAY LANDINGS OR WITHIN 36 INCHES OF THE

OR BOTTOM OF STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE. 4- PROVIDE SAFETY GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS. STEAM ROOMS, BATHTUBS AND SHOWERS, GLAZING IN ANY PORTION OF A BUILDING WALL

THAN 60 INCHES ABOVE A STANDING OR WALKING SURFACE.

EDGE GREATER THAN 36 INCHES ABOVE FLOOR, AND WITHIN 36 INCHES OF

PROVIDE SAFETY GLAZING IN RAILINGS REGARDLESS OF AN AREA OR HEIGHT. PROVIDE SAFETY GLAZING IN WALLS AND FENCES ENCLOSING SWIMMING POOLS OR HOT TUBS WHERE THE THE BOTTOM EDGE OF THE POOL OR SPA GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

CONDITIONS: AREAS GREATER THAN 9 SQUARE FEET, BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR, TOP

ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS

PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS THAT MEETS ALL OF THE FOLLOWING

08-146 UNIT SKYLIGHT

14" SOLATUBE 290 DS SELF-FLASHING FOR HARD CEILING

SUBMIT SKYLIGHT WITH PRODUCT DATA. SAMPLES OF FINISH, WITH SHOP DRAWINGS ON HOW TO INSTALL ON ROOF AND INTERFACE WITH CEILING FINISH.

PROVIDE MAINTENANCE AND WARRANTY INFORMATION. DO NOT INSTALL WITHIN 3-FT OF INSIDE FACE OF FIRE-RATED WALLS.

INSTALL PER MANUFACTURES SPECIFICATIONS AND COORDINATE WITH ROOFING MATERIAL. 08-151 DOOR HARDWARE

ALL DOOR HARDWARE AS SELECTED BY INTERIOR DESIGNER AND OWNER SUBMIT DOOR HARDWARE SCHEDULE WITH PRODUCT DATA, SAMPLES OF FINISH, WITH SCHEDULE OF EACH DOOR AND

## INSTALL PER MANUFACTURES SPECIFICATIONS **08-174 MIRRORS**

HARDWARE LIST ASSIGNED TO EACH DOOR.

MIRRORS AS SELECTED BY INTERIOR DESIGN. COORDINATE WITH INTERIOR DRAWINGS.

### **DIVISION 9- FINISHES** 09-21 GYPSUM WALL BOARD

5/8" TYPE "X" GYPSUM BOARD AT GARAGE AND AT FIRE-RATED SEPARATION WALL

WALLS: 5/8" THICK GYPSUM BOARD, UNLESS OTHERWISE NOTED ON DRAWINGS. CEILINGS: 5/8" THICK GYPSUM BOARD, UNLESS OTHERWISE NOTED ON DRAWINGS.

FINISH TO BE: SMOOTH

EXTERIOR LOCATIONS: 5/8" GLAS-MAT GYPSUM BOARD, UNLESS OTHERWISE NOTED ON DRAWINGS.

4'-0" X 4'-0" MOCK-UP OF WALL AND CEILING TO INDICATE COMPLIANCE OF FINISH SPECIFIED. PROVIDE (1) LAYER 5/8" GYPSUM BOARD ON ALL WALLS, COMBUSTIBLE COLUMNS, ETC. AND (2) LAYERS 5/8" GYPSUM

THE GYPSUM BOARD SHALL BE ATTACHED TO FRAMING WITH APPROVED SCREWS AS REQUIRED BY THE MANUFACTURER. UNLESS NOTED OTHERWISE PROVIDE A LEVEL 4 GYPSUM BOARD FINISH ON ALL WALLS AS PER INDUSTRY STANDARDS

PROVIDE SQUARE CORNER BEAD / TRIM FINISH.

ON FRAMING (INSTEAD OF GYPSUM BOARD) AT SURFACES TO RECEIVE TILE.

BOARD AT CEILINGS, BEAMS, ETC. IN GARAGE (IRC 302.6)

PROVIDE GLAS-MAT GYPSUM BOARD IN ALL WET LOCATIONS, PROVIDE GLAS-MAT GYPSUM BOARD TILE BACKER BOARD

# 09-27 CERAMIC TILE

09-37 STONE TILE

EXTENT OF CERAMIC TILE FLOORING INDICATED ON FINISH FLOOR PLANS.

SEE CERAMIC TILE FLOOR SCHEDULE FOR TILE SPECIFICATION AND STYLE, INCLUDED BY INTERIOR DESIGNER

SEE STONE TILE FLOOR SCHEDULE FOR TILE SPECIFICATION AND STYLE, INCLUDED BY INTERIOR DESIGNER.

# XTENT OF STONE TILE FLOORING INDICATED ON FINISH FLOOR PLANS.

09-102 STONE FLOORING

KTENT OF STONE FLOORING INDICATED ON FINISH FLOOR PLANS. SEE STONE FLOOR SCHEDULE FOR TILE SPECIFICATION AND STYLE, INCLUDED BY INTERIOR DESIGNER.

09-109 WOOD FLOORING

SEE WOOD FLOOR SCHEDULE FOR WOOD FLOOR SPECIES AND STYLE FINISH OF WOOD FLOOR AS SPECIFIED IN WOOD FLOOR SCHEDULE.

EXTENT OF WOOD FLOORING INDICATED ON FINISH FLOOR PLANS AND AS PER INTERIOR DESIGNER

ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO INSTALLATION. INSTALL WOOD FLOORING AS REQUIRED BY ALL APPLICABLE CODES AND STANDARDS FOR WOOD FLOOR INSTALLATION

PROVIDE A 24" X 24" SAMPLE OF THE FLOOR INSTALLED OVER PLYWOOD WITH STAIN FINISH FOR APPROVAL BY

MAINTAIN AN AMBIENT TEMPERATURE BETWEEN 65 AND 75 DEGF AND RELATIVE HUMIDITY PLANNED FOR BUILDING

OCCUPANTS IN SPACES TO RECEIVE WOOD FLOORING DURING THE CONDITIONING PERIOD FOR NOT LESS THAN SEVEN DAYS BEFORE WOOD FLOORING INSTALLATION, AND CONTINUOUS THROUGH INSTALLATION, AND CONTINUES NOT LESS. THAN SEVEN DAYS AFTER WOOD FLOORING INSTALLATION.

PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING AS PER

SLIDING PANELS, BIFOLD DOORS, STORM DOORS, FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE BROOM OR VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE PRODUCT INSTALLATION. AFTER CLEANING, EXAMINE SUBSTRATES FOR MOISTURE, ALKALINE SALTS, CARBONATION, OR DUST. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

MANUFACTURE RECOMMENDATIONS.

09-167 CARPET (SHEET) FLOORING EXTENT OF CARPET FLOORING INDICATED ON INTERIOR DESIGN DRAWINGS NOT INCLUDED WITHIN ARCHITECTURAL OWNER/CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH INTERIOR DESIGNER FOR ALL FINISH ITEMS. COMPLETE INSTALLATION DETAILS ARE THE RESPONSIBILITY OF THE INTERIOR DESIGNER AND TO REVIEW ALL MATERIAL AND SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL

PROVIDE A 24" X 24" SAMPLE OF THE FLOOR FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO

#### ALL INSTALLATION OF MATERIALS AS SELECTED BY INTERIOR DESIGNER SHALL BE INSTALLED PER MANUFACTURER STANDARDS AND AS PER INTERIOR DESIGNER SPECIFICATIONS.

09-208 EXTERIOR PAINTING

EXTERIOR SEMI-TRANSPARENT WOOD STAIN PROVIDE A 24" X 24" SAMPLE FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO INSTALLATION. ALL MATERIAL SHALL BE PRIMED ON ALL SURFACES PRIOR TO INSTALLATION.

MATERIAL MAY BE PRE-PAINTED PRIOR TO INSTALLATION, OR PAINTED AFTER INSTALLATION. ALL SURFACES SHALL RECEIVE

# CONTRACTOR SHALL CAULK ALL JOINTS PRIOR TO FINAL PAINTING

TWO (2) COATES OF FINISH PAINT AFTER PRIME COAT.

09-221 INTERIOR PAINTING EXTENT OF INTERIOR PAINTING INDICATED ON INTERIOR DESIGN DRAWINGS NOT INCLUDED WITHIN ARCHITECTURAL

COMPLETE INSTALLATION DETAILS ARE THE RESPONSIBILITY OF THE INTERIOR DESIGNER AND TO REVIEW ALL MATERIAL AND SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL PROVIDE A 24" X 24" SAMPLE FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO INSTALLATION.

all finishes Selected by Interior designer shall be installed as per manufacturer standard specifications

OWNER/CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH INTERIOR DESIGNER FOR ALL FINISH ITEMS.

AND SHALL MEET ALL INTERIOR SPECIFICATIONS. ALL WALLS MUST BE SMOOTH AND FREE OF DEFECTS PRIOR TO PAINTING

09-230 STAIN FINISH EXTENT OF INTERIOR STAIN FINISH INDICATED ON INTERIOR DESIGN DRAWINGS NOT INCLUDED WITHIN ARCHITECTURAL OWNER/CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH INTERIOR DESIGNER FOR ALL FINISH ITEMS. COMPLETE INSTALLATION DETAILS ARE THE RESPONSIBILITY OF THE INTERIOR DESIGNER AND TO REVIEW ALL MATERIAL AND

SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL PROVIDE A 24" X 24" SAMPLE FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO INSTALLATION. ALL FINISHES SELECTED BY INTERIOR DESIGNER SHALL BE INSTALLED AS PER MANUFACTURER STANDARD SPECIFICATIONS,

# 09-235 EPOXY FLOOR COATINGS

EXTENT OF EPOXY FLOOR COATINGS INDICATED ON INTERIOR DESIGN DRAWINGS NOT INCLUDED WITHIN ARCHITECTURAL

AND SHALL MEET ALL INTERIOR SPECIFICATIONS.

OWNER/CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH INTERIOR DESIGNER FOR ALL FINISH ITEMS. COMPLETE INSTALLATION DETAILS ARE THE RESPONSIBILITY OF THE INTERIOR DESIGNER AND TO REVIEW ALL MATERIAL AND SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL

PROVIDE A 24" X 24" SAMPLE FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO INSTALLATION. ALL FINISHES SELECTED BY INTERIOR DESIGNER SHALL BE INSTALLED AS PER MANUFACTURER STANDARD SPECIFICATIONS, AND SHALL MEET ALL INTERIOR SPECIFICATIONS.

SHEET NUMBER:

Architecture

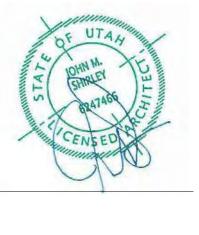
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**REVISIONS:** 

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SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL PROVIDE HARDWARE SPECIFICATION CUT SHEETS FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER AND OWNER PRIOR TO ORDERING.

**EXECUTION** INSTALL ACCESSORIES ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER, INSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.

# **DIVISION 11- EQUIPMENT**

GAME ROOM FIREPLACE TO BE: MONTIGO "P-SERIES" SEALED GAS - SEE ID DRAWINGS (TOP-VENT TO EXTERIOR WALL) GREAT ROOM FIREPLACE TO BE: MONTIGO "P-SERIES" SEALED GAS - SEE ID DRAWINGS (TOP VENT TO CHIMNEY CHASE)

MASTER BEDROOM FIREPLACE TO BE: MONTIGO "PANORAMA" 3-SIDED GLASS CUSTOM SEALED GAS - SEE ID

DRAWINGS (REAR-VENT TO EXTERIOR WALL)

SUBMIT CUT SHEETS FOR EACH APPLIANCE SPECIFIED.

## BEDROOM APPLICATIONS: PROVIDE SEALED GLASS DOORS.

ALL WOOD BURNING FIREPLACES (EXCEPT IN BEDROOM APPLICATIONS): TO BE PROVIDED WITH GAS STARTERS

GAS LOG FIREPLACES SHALL BE PROVIDED WITH A SHUT OFF VALVE LOCATED OUTSIDE OF THE FIREBOX AND WITHIN 6' OF

THE APPLIANCE, UNLESS APPROVED BY THE FIREPLACE MANUFACTURER. GAS LIGHTERS ARE USED, FLUE MUST BE PERMANENTLY HELD OPEN.

ALL GAS LOGS, LIGHTERS OR FIREPLACES REQUIRE OUTSIDE COMBUSTION AIR.

ALL FLUES MUST EQUAL 1 SQUARE INCH PER 1000 BTU'S.

ALL ROOMS WHERE GAS LOGS, LIGHTERS, OR FIREPLACES ARE INSTALLED MUST EQUAL 50 CUBIC FEET OF VOLUME PER 1000 BTU'S IN ADDITION TO THE REQUIREMENT FOR OUTSIDE AIR.

PROVIDE FLUES, COMBUSTION AIR SPARK ARRESTOR, CLEARANCES, AND ETC. AS PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE CHIMNEY CAP FLASHING AND SURROUND. (SEE SECTION 07-34) THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR INSTALLATION OF FIREPLACE EQUIPMENT, INCLUDING FINISH MATERIAL SUCH AS HEARTHS, MANTLES, AND OTHER COMBUSTIBLE PROJECTIONS, ETC. AND PROVIDE PROPER SETBACKS, CLEARANCES, AND PROTECTION.

THE CHIMNEY TERMINATION MUST EXTEND AT LEAST 2 FEET HEIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FEET, AT WOOD BURNING FIREPLACES, AS REQUIRED BY I.R.C. G2427.5.3.

## 11-34 RESIDENTIAL APPLIANCES

RESIDENTIAL APPLIANCES AS SELECTED BY INTERIOR DESIGNER.

PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. APPLIANCE SCHEDULE: USE SAME DESIGNATIONS INDICATED ON DRAWINGS

GAS-BURNING APPLIANCES: COMPLY WITH ANSI Z21 SERIES STANDARDS.

RESIDENTIAL APPLIANCES: COMPLY WITH NAECA STANDARDS.

INSTALLER QUALIFICATIONS: AN EMPLOYER OF WORKERS TRAINED AND APPROVED BY MANUFACTURER FOR INSTALLATION AND MAINTENANCE OF UNITS REQUIRED FOR THIS PROJECT

PROVIDE CLEARANCE FROM APPLIANCES TO COMBUSTIBLE MATERIALS AS PER MANUFACTURES INSTALLATION REQUIREMENTS. PROVIDE MINIMUM CLEARANCE OF 30" ABOVE COOKING TOP TO COMBUSTIBLE MATERIALS. (I.R.C. M1306 & M1901)

INSTALL ACCESSORIES ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER. INSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.

BUILT-IN EQUIPMENT: SECURELY ANCHOR UNITS TO SUPPORTING CABINETS OR COUNTERTOPS WITH CONCEALED FASTENERS. VERIFY THAT CLEARANCES ARE ADEQUATE FOR PROPER FUNCTIONING AND ROUGH OPENINGS ARE

COMPLETELY CONCEALED. FREESTANDING EQUIPMENT: PLACE UNITS IN FINAL LOCATIONS AFTER FINISHES HAVE BEEN COMPLETED IN EACH AREA.

### VERIFY THAT CLEARANCES ARE ADEQUATE TO PROPERLY OPERATE EQUIPMENT. 11-42 PROJECTION SCREENS

TENT OF PROJECTION SCREENS ARE INDICATED ON INTERIOR DESIGN DRAWINGS NOT INCLUDED WITHIN ARCHITECTURAL DRAWINGS

OWNER/CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH INTERIOR DESIGNER FOR ALL FINISH ITEMS.

COMPLETE INSTALLATION DETAILS ARE THE RESPONSIBILITY OF THE INTERIOR DESIGNER AND TO REVIEW ALL MATERIAL AND SUBMITTALS FOR CODE COMPLIANCE AND APPROVAL.

### **DIVISION 12- FURNISHINGS** 12-27 WOOD KITCHEN CABINETS

EXTENT OF CABINETRY AS SHOWN ON INTERIOR FINISH PLANS AND DRAWINGS.

SEE INTERIOR ELEVATIONS FOR DESIGN OF CABINETS

COORDINATE WITH CABINET FINISH SCHEDULE FOR FINISH OF ALL CABINETS.

CABINET SUPPLIER SHALL PROVIDE SHOP DRAWINGS FOR EACH CABINET FOR APPROVAL BY ARCHITECT/INTERIOR DESIGNER/OWNER PRIOR TO FABRICATION OF CABINET

PROVIDE 12 X 12 SAMPLE OF EACH CABINET FINISH SPECIFIED FOR APPROVAL.

### PROVIDE 1 DOOR SAMPLE FOR EACH DOOR TYPE SPECIFIED FOR APPROVAL. 12-40 STONE COUNTERTOPS

TENT OF STONE COUNTERTOPS AS SHOWN ON INTERIOR FINISH PLANS AND DRAWINGS.

SAMPLES FOR EACH STONE TYPE INDICATED, IN SETS OF SAMPLES NOT LESS THAN 12 INCHES SQUARE. INCLUDE TWO OR MORE SAMPLES IN EACH SET AND SHOW THE FULL RANGE OF VARIATIONS IN APPEARANCE CHARACTERISTICS EXPECTED IN

USE ONLY ADHESIVES FORMULATED FOR STONE AND CERAMIC TILE AND RECOMMENDED BY THEIR MANUFACTURER FOR THE APPLICATION INDICATED. EXAMINE SUBSTRATES INDICATED TO RECEIVE STONE COUNTERTOPS AND CONDITIONS UNDER WHICH STONE COUNTERTOPS WILL BE INSTALLED, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE.

INSTALL COUNTERTOPS OVER PLYWOOD SUBTOPS WITH FULL SPREAD OF WATER-CLEANABLE EPOXY ADHESIVE. SET STONE TO COMPLY WITH REQUIREMENTS INDICATED ON DRAWINGS AND SHOP DRAWINGS. SHIM AND ADJUST STONE

TO LOCATIONS INDICATED, WITH UNIFORM JOINTS OF WIDTHS INDICATED AND WITH EDGES AND FACES ALIGNED

STONE COUNTERTOPS AND JOINTS NOT MATCHING APPROVED SAMPLES AND MOCKUPS.

ACCORDING TO ESTABLISHED RELATIONSHIPS AND INDICATED TOLERANCES REMOVE AND REPLACE STONE COUNTERTOPS OF THE FOLLOWING DESCRIPTION: BROKEN, CHIPPED, STAINED, OR THERWISE DAMAGED STONE, DEFECTIVECOUNTERTOPS, DEFECTIVE JOINTS, INCLUDING MISALIGNED JOINTS, INTERIOR

CLEAN STONE COUNTERTOPS NOT LESS THAN TWO DAYS AFTER COMPLETION OF INSTALLATION, USING CLEAN WATER AND SOFT RAGS. APPLY STONE SEALER TO COMPLY WITH STONE PRODUCER'S AND SEALER MANUFACTURER'S WRITTEN

# **DIVISION 21 - FIRE SUPPRESSION**

THE PROJECT SHALL HAVE FULL NFPA 13D SPRINKLER SYSTEM INSTALLED THROUGH OUT AS REQUIRED.

WATER. BOTH PIPE AND FITTING COMPOUNDS SHALL BE PRESSURE RATED BY PLASTICS PIPE INSTITUTE (PPI).

CPVC FIRE SPRINKLER PIPE AND FITTINGS ARE EXTRUDED/MOLDED FROM CPVC COMPOUNDS MANUFACTURED BY LUBRIZOL ADVANCED MATERIALS OR EQUAL. THE PIPE AND FITTING COMPOUNDS SHALL MEET CELL CLASS 23547 AND WARRANTY AFTER OWNER'S ACCEPTANCE. 24447, RESPECTIVELY, AS DEFINED BY ASTM D1784, AND SHALL BE CERTIFIED BY NSF INTERNATIONAL FOR USE WITH POTABLE

PIPE SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM F442 IN STANDARD DIMENSION RATIO (SDR) 13.5.

FITTINGS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM F437 (SCHEDULE 80 THREADED), ASTM F438 (SCHEDULE 4 SOCKET) AND ASTM F439 (SCHEDULE 80 SOCKET). BOTH PIPE AND FITTINGS SHALL BE LISTED BY UNDERWRITERS LABORATORIES FOR USE IN WET AUTOMATIC FIRE SPRINKLER

BEAR THE LOGO OF THE LISTING AGENCY. SEE UL FIRE PROTECTION EQUIPMENT DIRECTORY, CATEGORIES VIWT AND HFYH. LAVATORY AND SINK FAUCETS SHALL HAVE A FLOW RATE OF 2.2 GPM AT 60 PSI. ANCILLARY PRODUCTS COMING INTO CONTACT WITH PIPE AND FITTINGS MUST BE CHEMICALLY COMPATIBLE AS

FITTINGS OR COMPOUND MANUFACTURER'S CHEMICAL COMPATIBILITY PROGRAM (I.E. FGG/BM/CZTM SYSTEM COMPATIBLE PROGRAM).

PIPE AND FITTINGS

SYSTEMS AND SHALL

ALL SOCKET TYPE JOINTS SHALL BE MADE UP EMPLOYING SOLVENT CEMENTS THAT MEET OR EXCEED THE REQUIREMENTS OF PROVIDE FLOOR DRAIN AND / OR DRIP PAN UNDER WATER HEATER, SPA, HOT TUB, WASHING MACHINE, STEAM SHOWER ASTM F493. THE STANDARD PRACTICE FOR SAFE HANDLING OF SOLVENT CEMENTS SHALL BE IN ACCORDANCE WITH ASTM EQUIPMENT, ETC. IF LOCATED ON WOOD FLOOR STRUCTURE. (I.R.C P2801) F402. SOLVENT CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR USE WITH POTABLE WATER, AND APPROVED BY THE MANUFACTURERS. THE SOLVENT CEMENTS SHALL BE COMPATIBLE WITH THEIR CPVC PIPE AND FITTINGS.

DETERMINED BY CPVC PIPE AND FITTINGS MANUFACTURER OR COMPOUND MANUFACTURER, AND THUS LISTED ON PIPE,

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SET AND CURE TIMES FOR SOLVENT CEMENT JOINTS. AVOID SIGNIFICANT STRESSES DURING SET AND CURE TIMES. DO NOT APPLY ANY STRESS THAT WILL DISTURB AN UN-DRIED JOINT. SPRINKLER FITTINGS SHALL BE ALLOWED TO CURE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND THE CONTRACTOR THE CONTRACTOR SHALL TEST ALL PIPING INCLUDING DRAINAGE WASTE LINES, WATER PIPING, NATURAL GAS PIPING, ETC. SHALL ASSURE THE OUTLETS ARE CLEAR OF ANY EXCESS CEMENT PRIOR TO INSTALLING SPRINKLERS.

CPVC PIPE AND FITTINGS SHALL BE LISTED BY UL AND ALSO EITHER ULC OR C-UL FOR USE IN:

ONE AND TWO FAMILY DWELLINGS AND MANUFACTURED HOMES AS DEFINED BY NFPA 13D.

AIR HANDLING (PLENUM) SPACES AS DEFINED BY NFPA 90A.

UNDERGROUND WATER PRESSURE SERVICE AS DEFINED BY NFPA 24.

MAXIMUM DESIGN TEMPERATURE/PRESSURE RATING SHALL NOT BE LESS THAN 175 PSI AT 150°F. REFER TO CPVC PIPE AND

FITTING MANUFACTURERS' INSTALLATION INSTRUCTIONS. QUALITY ASSURANCE

CONTRACTOR INSTALLING THE PRODUCE MUST HAVE A MINIMUM OF 2 YEARS OF INSTALLATION OF SYSTEM. MANUFACTURERS

TYCO FIRE SUPPRESSION & BUILDING PRODUCTS 451 N. CANNON AVENUE LANSDALE, PA 19446 (215) 362-0700 FAX (215)

COMPLETE FIRE SPRINKLER SHOP DRAWINGS, INCLUDING PIPING LAYOUT, HEAD LAYOUT, HEAD OPTIONS FOR SELECTION, ALL FIXTURES SHALL BE ABLE TO DRAIN AT THIS POINT. PROVIDE FLOOR DRAIN AT LOCATION OF PLUMBING SYSTEM DRAIN. AND PRODUCT LITERATURE. FIRE SPRINKLER DRAWINGS WILL BE CONSIDERED DEFERRED SUBMITTAL, AND MUST FOLLOW

DEFERRED SUBMITTAL PROCEDURES. SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE FOR FIRE SPRINKLER SYSTEMS AND THE

TEMPERATURES, SUPPORT SPACING, JOINING METHODS, AND THERMAL EXPANSION AND CONTRACTION.

THE FIRE SPRINKLER PIPING SYSTEM SHALL BE HYDRAULICALLY CALCULATED USING A HAZEN-WILLIAMS C FACTOR OF 150, HEADS. AND DESIGNED IN ACCORDANCE WITH THE STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS, NFPA 13.

THE MAXIMUM DESIGN TEMPERATURE/PRESSURE RATING SHALL NOT EXCEED 175 PSI AT 150°F.

INSTALLATION PROCEDURES.

INSTALLATION PRACTICES SUCH AS PIPE SUPPORT SPACING, BRACING, ALLOWANCE FOR THERMAL EXPANSION/CONTRACTION, SOLVENT CEMENTING AND HANDLING AND STORAGE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE ULLISTING WHICH INCLUDES INSTALLATION LIMITATIONS.

CPVC PIPE AND FITTINGS ARE INTENDED FOR USE AT A MAXIMUM WORKING PRESSURE OF 175 PSI AT 150°F IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPROPRIATE LISTING AGENCIES.

ALL APPLICABLE CODES AS PER THE NFPA SHALL BE IDENTIFIED,

AFTER THE SYSTEM IS INSTALLED AND ANY SOLVENT CEMENT IS CURED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE SYSTEMS SHALL BE HYDROSTATICALLY TESTED PER THE REQUIREMENTS OF THE APPLICABLE NFPA

MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER SUBMIT CUT SHEET WITH PICTURES, MODEL NUMBERS, COLORS AND MANUFACTURER SPECIFICATIONS FOR EACH FIXTURE BASED EXTINGUISHING SYSTEMS AS DEFINED BY NFPA 25.

### **DIVISION 22- PLUMBING**

THE PLUMBING SYSTEM SHALL COMPLY WITH THE 2012 I.R.C. AND BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ITEMS RELATED TO THE PROJECT AS PER

THE PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR THE COMPLETE PLUMBING INSTALLATION AND PROVIDE A (1) YEAR

VISIT THE JOB SITE PRIOR TO BIDDING THE PROJECT TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND ANY

NO PLUMBING SHALL RUN ON AN OUTSIDE WALL.

ALL VENTS SHALL BE GANGED TO THE FEWEST NUMBER POSSIBLE TO PENETRATE ROOF AND SHOULD BE A MINIMUM OF 10'-0" FROM EAVES. ALL VENTS TO BE SIZED AS PER I.R.C. REQUIREMENTS AND / OR NOT LESS THAN 3"DIAMETER PIPE. PROVIDE FLASHING AS REQUIRED.

SHOWER HEADS SHALL HAVE A FLOW RATE OF 2.5 GPM AT 80 PSI OR LESS.

WATER CLOSET TO HAVE ECONO-FLUSH TANK 1.6 GAL. MAX. FLUSHING CYCLE. ALL HOSE BIBS SHALL BE NON FREEZE TYPE WITH BACK FLOW PREVENTER.

WATER STORAGE TANKS TO HAVE SEISMIC STRAPPING TIE DOWNS. SIZE OF WATER HEATER / WATER STORAGE TANK AS PER CODE. (I.R.C. M13017.2 & G2404.8)

THE CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN STRICT ACCORDANCE WITH THE MANUFACTURES ROUGHED

IN INSTRUCTIONS. TAKE CARE DURING BUILDING CONSTRUCTION TO SEE THAT PROVISIONS ARE MADE FOR PROPER FIXTURE SUPPORT AND THAT ROUGH IN PIPING IS ACCURATELY SET AND PROTECTED FROM MOVEMENT OR DAMAGE.

DISINFECTED IN ACCORDANCE WITH LOCAL HEALTH DEPARTMENT REGULATIONS. CAULK AROUND ALL PLUMBING FIXTURES AT FLOORS AND WALLS WITH FLEXIBLE CAULKING COMPOUND. COLOR TO MATCH FIXTURE.

TEST IN ACCORDANCE WITH UNIFORM PLUMBING CODE AND LOCAL CODES AND AUTHORITIES. WATER LINES TO BE

AFTER FIXTURES HAVE BEEN SET THE CONTRACTOR SHALL CAREFULLY PROTECT THEM FROM DAMAGE UNTIL THE BUILDING IS OCCUPIED BY THE OWNER. JUST PRIOR TO ACCEPTANCE OF THE JOB BY THE OWNER, THE CONTRACTOR SHALL CLEAN ALL

ACCORDANCE WITH ASTM F1807 OR ASTM F2159 AND/OR COMPLY WITHASTM F877 SYSTEM STANDARD AS IDENTIFIED ON PLUMBING FIXTURES AND REMOVE LABELS.

PROVIDE ANTI-SCALD LIMITING DEVISES SET AT 120 DEGREES FOR BATHTUBS AND SHOWERS.

ALL SUPPLY, WASTE, & GAS LINE MATERIALS, WORKMANSHIP, AND INSTALLATION AS PER INDUSTRY STANDARDS. ALL WATER LINES TO BE TYPE "L" HARD DRAWN COPPER OR POLYETHYLENE CROSS-LINK PIPING FOR ABOVE GROUND APPLICATIONS TESTING REQUIREMENTS AS LISTED WITHIN MANUFACTURER STANDARD SPECIFICATIONS AND INSTALLATION GUIDELINES. OR APPROVED EQUAL. PROVIDE TYPE "K" COPPER OR POLYETHYLENE CROSS-LINK PIPING FOR UNDERGROUND. PROVIDE CONTINUOUS LINE WITH NO JOINTS FOR UNDERGROUND APPLICATIONS, UNLESS APPROVED. ALL FITTINGS TO BE COPPER WITH SWEAT SOLDIER JOINTS FOR COPPER PIPING OR BRASS FITTINGS WITH COMPRESSION BAND FITTINGS FOR POLY PIPE. ALL WASTE LINES TO BE PVC OR ABS PLASTIC PIPE.

WASTE LINES SHALL BE PROVIDED WITH A CLEAN OUT AS REQUIRED. EXTEND CLEAN OUTS TO ACCESSIBLE SURFACE. DO NOT PLACE CLEAN OUTS IN FLOOR UNLESS APPROVED.

PLUMBING CONTRACTOR SHALL PROVIDE A TURN OFF VALVE AND DRAIN AT THE LOWEST LEVEL OF THE FACILITY

PLUMBING CONTRACTOR TO ASSESS WATER PRESSURE AND ENSURE ADEQUATE PRESSURE IS AVAILABLE, FOR MULTIPLE FIXTURE USE SIMULTANEOUSLY WITH OUT PRESSURE DECREASE OR TEMPERATURE FLUCTUATION.

MANUFACTURER'S INSTRUCTIONS. THE DESIGN SHALL TAKE INTO CONSIDERATION SUCH FACTORS AS PRESSURE AND FLOW PROVIDE CULINARY WATER SOFTENER SYSTEM THROUGH OUT RESIDENCE AS REQUIRED. SYSTEM TO BE "INTERMOUNTAIN" WATER INC." MODEL: "PATRIOT" SYSTEM. INSTALLATION AS PER MANUFACTURE. O.A.E.

> PROVIDE FIRE SPRINKLER SYSTEM AS REQUIRED BY BUILDING DEPARTMENT. SYSTEM TO BE BUILT TO NFPA 13D MODIFIED. PROVIDE ENGINEERING, LAYOUT, SPECIFICATIONS, ETC. FOR APPROVAL PRIOR TO INSTALLATION. PROVIDE CONCEALED

STEAM SHOWER UNITS TO BE "KOHLER" STEAM GENERATOR K-1734 OR EQUAL. INSTALL AS PER MANUFACTURE REQUIREMENTS. MEETS OR EXCEEDS UL-499/CSA C22.2 NO. 88.

BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 72" INCHES ABOVE THE FLOOR. SHOWER PAN LINERS AND SITE BUILT PAN LINERS SHALL EXTEND A MINIMUM OF 3" ABOVE SHOWER DOOR THRESHOLD. PROVIDE SOLID BLOCKING BEHIND LINER. ALL SHOWER PAN LINERS SHALL BE INSTALLED ON SLOPED BUILT UP FLOOR AND MUST BE INSPECTED.

# 22-01 PLUMBING FIXTURES

SEE PLUMBING FIXTURE SCHEDULE AND PLANS FOR LOCATIONS AND SELECTION OF SPECIFIED FIXTURES.

SPECIFIED FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.

INSTALL FIXTURES LEVEL AND PLUMB ACCORDING TO ROUGHING-IN DRAWINGS.

INSTALL WATER-SUPPLY PIPING WITH STOP ON EACH SUPPLY TO EACH FIXTURE TO BE CONNECTED TO WATER DISTRIBUTION PIPING. SEAL JOINTS BETWEEN FIXTURES AND WALLS, FLOORS, AND COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW-RESISTANT SILICONE SEALANT.

FITTINGS REQUIRED TO MATCH FIXTURES. CHECK THAT PLUMBING FIXTURES ARE COMPLETE WITH TRIM, FAUCETS, FITTINGS, AND OTHER SPECIFIED COMPONENTS.

CONNECT FIXTURES WITH WATER SUPPLIES, STOPS, AND RISERS, AND WITH TRAPS, SOIL, WASTE, AND VENT PIPING. USE SIZE

INSPECT INSTALLED PLUMBING FIXTURES FOR DAMAGE. REPLACE DAMAGED FIXTURES AND COMPONENTS

EACH WATER CLOSET SHALL BE LOCATED IN A CLEAR SPACE NOT LESS THAN 30" IN WIDTH (15" MINIMUM FROM CENTER TO ANY OBSTRUCTION) AND HAVE A CLEAR SPACE IN FRONT OF NOT LESS THAN 21" CLEAR. (I.R.C. R307)

TEST INSTALLED FIXTURES AFTER WATER SYSTEMS ARE PRESSURIZED FOR PROPER OPERATION. REPLACE MALFUNCTIONING

FIXTURES AND COMPONENTS, THEN RETEST. REPEAT PROCEDURE UNTIL UNITS OPERATE PROPERLY.

# 22-02 TANK TYPE WATER HEATER

50 GALLONS

COORDINATE WITH PLANS FOR LOCATION OF WATER HEATERS. WATER HEATERS TO BE: A.O. SMITH OR EQUAL

CAPACITY SHALL BE:

WATER SOFTENER TO BE:

SUBMIT CUT SHEET WITH PICTURES, MODEL NUMBERS, MANUFACTURER SPECIFICATIONS FOR EACH WATER HEATER FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.

EXPANSION TANK AS REQUIRED BY LOCAL BUILDING CODE.

FOR HOT WATER SUPPLIED TO BATHTUBS AND WHIRLPOOL TUBS SHALL BE LIMITED TO 120 DEGREES MAX BY A WATER

PROVIDE VENTING AS REQUIRED BY WATER HEATER MANUFACTURER SPECIFICATIONS.

### TEMPERATURE LIMITING DEVICE (ASSE 1070) OR BY AN APPROVED COMBINATION TUB/SHOWER VALVE. 22-04 WATER SOFTENER

COORDINATE WITH PLANS FOR LOCATION OF WATER HEATERS.

SUBMIT CUT SHEET WITH PICTURES, MODEL NUMBERS, MANUFACTURER SPECIFICATIONS FOR EACH WATER HEATER FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.

CONNECT AS PER MANUFACTURER SPECIFICATIONS.

# 22-04 WATER SOFTENER

HE CONTRACTOR IS RESPONSIBLE TO REVIEW AND COMPLY WITH ALL APPLICABLE BUILDING CODES, ASTM STANDARDS, TECHNICAL REPORTS FOR THE INSTALLATION OF PLUMBING COMPONENTS.

PROVIDE A PEX TUBING HOT AND COLD POTABLE WATER DISTRIBUTION SYSTEM, WHICH IS MANUFACTURED, FABRICATED AND INSTALLED TO COMPLY WITH REGULATORY AGENCIES AND TO MAINTAIN PERFORMANCE CRITERIA STATED BY THE PEX TUBING MANUFACTURER WITHOUT DEFECTS, DAMAGE OR FAILURE

UTILIZE AN INSTALLER HAVING DEMONSTRATED EXPERIENCE ON PROJECTS OF SIMILAR SIZE AND COMPLEXITY AND POSSESSES THE SKILLS AND KNOWLEDGE TO INSTALL A PEX POTABLE WATER DISTRIBUTION SYSTEM

DELIVER MATERIALS IN MANUFACTURE'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT UNTIL READY FOR INSTALLATION

STORE MATERIALS PROTECTED FROM EXPOSURE TO HARMFUL ENVIRONMENTAL CONDITIONS AND AT TEMPERATURE AND HUMIDITY CONDITIONS RECOMMENDED BY THE MANUFACTURER AND STORE PEX TUBING INDOORS, IN CARTONS OR UNDER COVER TO AVOID DIRT OR FOREIGN MATERIAL FROM ENTERING THE TUBING

DO NOT EXPOSE PEX TUBING TO DIRECT SUNLIGHT FOR MORE THAN SIX MONTHS. IF CONSTRUCTIONDELAYS ARE ENCOUNTERED, COVER THE TUBING THAT IS EXPOSED TO DIRECT SUNLIGHT

MANUFACTURER'S WARRANTY SHALL COVER THE REPAIR OR REPLACEMENT OF PROPERLY INSTALLED TUBING AND FITTINGS PROVEN DEFECTIVE AS WELL AS INCIDENTAL DAMAGES FOR A WARRANTY PERIOD FOR PEX TUBING AND SUBSEQUENT SYSTEM SHALL BE 25 YEAR NON-PRORATED WARRANTY AGAINST FAILURE DUE TO DEFECT IN MATERIAL OR WORKMANSHIP. BEGINNING WITH THE DATE OF INSTALLATION

SPECIFICATION FOR HOT AND COLD POTABLE WATER DISTRIBUTION SYSTEM HAS BEEN WRITTEN AROUND PRODUCTS AND SYSTEM DESIGNS AS MANUFACTURED AND RECOMMENDED BY ZURN PEX, INC. AND ALL PRODUCTS, COMPONENTS, ETC. SPECIFIED HEREIN ARE MANUFACTURED BY AND/OR ARE AVAILABLE FROM ZURN PEX, INC. TUBING MANUFACTURER. THE CONTRACTOR SHALL NOT MIX SYSTEM COMPONENTS.

CROSS-LINKED POLYETHYLENE (PEX) MANUFACTURED BY THE SILANE METHOD NON-BARRIER TYPE AND SHALL HAVE A PRESSURE AND TEMPERATURE RATING OF 160 PSI AT 73°F, 100 PSI AT 180°F AND 80 PSI AT 200°F

TUBING SHALL HAVE A MINIMUM OF 6 MONTHS UV PROTECTION, AND BE MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877 AND TESTED FOR COMPLIANCE BY AN INDEPENDENT THIRD-PARTY AGENCY

FITTINGS SHALL BE MANUFACTURED BY SAME PEX MANUFACTURER AS TUBING AND SHALL BE MANUFACTURED IN

ALL QICKCLAMP, COPPER CRIMP RING SHALL PROVIDED BY TUBING AND PIPING MANUFACTURER. INSTALLATION OF QICKCLAMP AND COPPER CRIMP RING SHALL BE INSTALLED WITH MANUFACTURER TOOLS AND MUST FOLLOW ALL ASTM

MANIFOLDS SHALL BE SELECTED FROM FOLLOWING: QICKPORT PREASSEMBLED MANIFOLD; COPPER MANIFOLD SYSTEM; CR MANIFOLD; MULTI PORT FITTINGS; COPPER MANIFOLD HEADER

SHALL BE OF THE PLASTIC OR METAL TYPE, MEETING THE REQUIREMENTS OF ASTM F877, IDENTIFIED AS SUCH WITH THE APPROPRIATE MARK ON THE PRODUCT

SUBMIT MANUFACTURER'S PRODUCT SUBMITTAL DATA AND INSTALLATION INSTRUCTIONS

SUBMIT MANUFACTURER'S PROFESSIONAL INSTALLATION WARRANTY FOR PRODUCTS AND LABOR.

SUBMIT MANUFACTURER'S WARRANTY FOR PRODUCTS.

COMPLY WITH MANUFACTURE'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLETINS, TECHNICAL MEMO'S, INSTALLATION INSTRUCTIONS AND DESIGN DRAWINGS, INCLUDING; ZURN OR EQUAL PEX PLUMBING INSTALLATION GUIDE VERIFY THAT SITE CONDITIONS ARE ACCEPTABLE FOR THE INSTALLATION OF THE PEX POTABLE WATER SYSTEM, DO NOT

PROCEED WITH INSTALLATIONS OF THE PEX POTABLE WATER SYSTEM UNTIL UNACCEPTABLE CONDITIONS ARE CORRECTED

DO NOT INSTALL PEX TUBING WITHIN 6 INCHES OF GAS APPLIANCE VENTS OR WITHIN 12 INCHES OF ANY RECESSED LIGHT DO NOT SOLDER WITHIN 18 INCHES OF PEX TUBING IN THE SAME WATERLINE, MAKE SWEAT CONNECTIONS PRIOR TO

MAKING PEX CONNECTIONS ENSURE NO GLUES, SOLVENTS, SEALANTS OR CHEMICALS COME IN CONTACT WITH THE TUBING WITHOUT PRIOR

PERMISSION FROM THE TUBING MANUFACTURER DO NOT EXPOSE PEX TUBING TO DIRECT SUNLIGHT FOR MORE THAN 6 MONTHS

USE GROMMETS OR SLEEVES AT THE PENETRATION FOR PEX TUBING PASSING THROUGH METAL STUDS USE A PEX MANUFACTURER RECOMMENDED FIRE STOP SEALANT MANUFACTURER

PROTECT PEX TUBING WITH SLEEVES WHERE ABRASION MAY OCCUR

USE NAIL PLATES WHERE PEX TUBING PENETRATES WALL STUD OR JOISTS AND HAS THE POTENTIAL FOR BEING STRUCK WITH A

ALLOW SLACK OF APPROXIMATELY 1/8 INCH PER FOOT OF TUBE LENGTH TO COMPENSATE FOR EXPANSION AND PRESSURIZE ZURN OR EQUAL PEX TUBING IN ACCORDANCE WITH APPLICABLE CODES OR IN THE ABSENCE OF APPLICABLE

WATER OR AIR AND NOT GREATER THAN 225 PSI WATER, 125 PSI AIR TO ENSURE SYSTEM INTEGRITY, PRESSURE TEST THE SYSTEM BEFORE COVERING TUBING IN CONCRETE AND AFTER OTHER TRADES HAVE WORKED IN THE VICINITY OF THE TUBING. REPAIR AND REPLACE ANY PRODUCT THAT HAS BEEN DAMAGED

CODES, TEST PRESSURE SHALL BE AT LEAST EQUAL TO NORMAL SYSTEM WORKING PRESSURE, BUT NOT LESS THAN 40 PSI

# 22-06 PLUMBING WASTE COMPONENT/PIPING

THIS SPECIFICATION COVERS ABS CELLULAR CORE (FOAM CORE) PIPE AND ABS DWV FITTINGS USED IN SANITARY DRAIN, WASTE, AND VENT (DWV), SEWER, AND STORM DRAINAGE APPLICATIONS. THIS SYSTEM IS INTENDED FOR USE IN NON-

PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 160°F.

ALL WASTE PIPING SHALL BE THE FOLLOWING:

ACCORDING TO MANUFACTURER'S RECOMMENDATION

ABS CELLULAR CORE (FOAM CORE) PIPE AND ABS DWV FITTINGS PIPE SHALL BE MANUFACTURED FROM VIRGIN RIGID ABS (ACRYLONITRILE-BUTADIENE-STYRENE) COMPOUNDS WITH A CELL CLASS OF 42222 AS IDENTIFIED IN ASTM D 3965. FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID ABS

MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A CONNECT FIXTURES WITH WATER SUPPLIES, STOPS, AND RISERS, AND WITH TRAPS, SOIL, WASTE, AND VENT PIPING. PROVIDE SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14.

IF POSSIBLE, PIPE SHOULD BE STORED INSIDE. WHEN THIS IS NOT POSSIBLE, THE PIPE SHOULD BE STORED ON LEVEL

ABS CELLULAR CORE PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628. ABS DWV FITTINGS SHALL CONFORM TO ASTM D 2661. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE

GROUND WHICH IS DRY AND FREE FROM SHARP OBJECTS. IF DIFFERENT SCHEDULES OF PIPE ARE STACKED TOGETHER, THE PIPE WITH THE THICKEST WALLS SHOULD BE ON THE BOTTOM.

COMPOUNDS WITH A CELL CLASS OF 32222 AS IDENTIFIED IN ASTM D 3965.

PIPE DIAMETER SHALL BE 3-INCH MIN. WHEN PENETRATING A ROOF ASSEMBLY. THE PIPE SHOULD BE PROTECTED FROM THE SUN AND BE IN AN AREA WITH PROPER VENTILATION, THIS WILL LESSEN THE

EFFECTS OF ULTRAVIOLET RAYS AND HELP PREVENT HEAT BUILD-UP. PROVIDE INSULATION AT ALL WASTE LINES WITHIN AREAS EXPOSED TO WEATHER.

MANUFACTURER, AND AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, FIRE, AND BUILDING CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668. SOLVENT CEMENT JOINTS SHALL BE MADE WITH A SOLVENT CEMENT CONFORMING TO ASTM D 2235. THE SYSTEM SHALL BE

PROVIDE INSULATION FOR ALL WASTE /DRAIN LINES FROM UPPER LEVELS TO LOWEST POINT IN STRUCTURE. INSULATION TO INDIVIDUALLY WRAP WASTE LINE, AND INSULATE STUD CAVITY WASTE LINE IS LOCATED WITHIN. ALL SHOWER TRAPS AND TRAP ARMS ARE TO BE SIZED ACCORDING TO THE FLOW RATES OF ALL SHOWERHEADS AND BODYSPRAYS THE DRAIN SERVES (P3201.7) INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY PIPE AND FITTING

PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH ABS COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION. WARNING! NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN ABS PIPE OR FITTINGS.

Architecture

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**REVISIONS:** 

THE MECHANICAL CONTRACTOR TO BE RESPONSIBLE FOR THE COMPLETE MECHANICAL INSTALLATION AND PROVIDE A (1) YEAR WARRANTY AFTER OWNER'S ACCEPTANCE. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH OPERATION AND MAINTENANCE MANUALS.

VISIT THE JOB SITE PRIOR TO BIDDING THE PROJECT TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND ANY

DRYER EXHAUST DUCT TO BE VENTED TO EXTERIOR. DUCTS TO BE RIGID ALUMINUM WITH SMOOTH INTERIOR SURFACES. NO METAL SCREWS OR FASTENERS SHALL PENETRATE INTO THE DUCT. JOINTS TO RUN IN DIRECTION OF AIR FLOW. MAXIMUM LENGTH SHALL NOT EXCEED 35'-0" (EXCLUDING FLEXIBLE TRANSITION DUCT). THE MAXIMUM LENGTH OF THE DUCT SHALL BE REDUCED BY 2.5 FEET FOR EACH 45 DEGREE BEND AND 5 FEET FOR EACH 90 DEGREE BEND. TRANSITION DUCTS SHALL NOT BE CONCEALED WITH IN CONSTRUCTION. (I.R.C. M1502)

BATHROOM EXHAUST DUCT WORK TO BE ALUMINUM, GALVANIZED STEEL OR APPROVED FIBROUS GLASS. KITCHEN HOOD EXHAUST DUCTS TO BE GALVANIZED STEEL, STAINLESS STEEL OR COPPER, DUCTS TO BE AIR TIGHT AND EQUIPPED WITH A BACK DRAFT DAMPER. ALL DUCTS TO TERMINATE AT OUTSIDE. BATHROOM VENTILATION SYSTEM SHALL BE RATED AT 50 CFM (INTERMEDIATE VENTILATION) (I.R.C. CHAPTER 15 AND R303)

LINE VOLTAGE AND LOW VOLTAGE CONTROL WIRING IS BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE

SUBMIT SPECIFICATION SHEETS ON ALL EQUIPMENT TO BE REVIEWED BY ARCHITECT.

ELECTRICAL CONTRACTOR.

MECHANICAL HEATING SYSTEM TO BE 90% EFFICIENT FORCED AIR FURNACE SYSTEM. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING THE TEMPERATURE WITHIN 1 DEGREE OF THE THERMOSTAT SET POINT. THE CONTRACTOR SHALL GUARANTEE THAT THE SYSTEM SHALL HEAT AND COOL THE FACULTY TO 68 DEGREES FAHRENHEIT HEATING AND 70 DEGREES FAHRENHEIT COOLING AT 3'-0" ABOVE THE FLOOR AND 2'-0" FROM EXTERIOR WALLS THROUGH OUT THE STRUCTURE. SUPPLIER TO PROVIDE HEAT LOSS CALCULATIONS, SHOP DRAWINGS, THERMOSTAT LOCATIONS AND CUT SHEETS ON ALL PROPOSED EQUIPMENT. SIZE EQUIPMENT AS PER I.R.C. M1401.3. PROVIDE 1" MINIMUM CLEARANCE AROUND EQUIPMENT AT SIDES AND REAR OF THE APPLIANCE AND 6" MINIMUM CLEARANCE IN FRONT OF THE APPLIANCE. PROVIDE TWO SEPARATE COMBUSTION AIR DUCTS. (FROM EXTERIOR) ONE TERMINATING IN LOWER 12" AND ONE TERMINATING IN UPPER 12" OF THE SPACE AS REQUIRED. EACH DUCT SHALL HAVE A FREE AREA TO ALLOW COMBUSTION AIR AT A RATE OF 1 SQUARE INCH PER 4.000 BTU'S (FOR VERTICAL DUCTS) AND 1 SQUARE INCH PER 2.000 BTU'S (FOR HORIZONTAL DUCTS) OF TOTAL INPUT RATING OF ALL APPLIANCES IN THE SPACE, OR AS PER MANUFACTURES SPECIFICATIONS. ALTERNATE COMBUSTION AIR OPTIONS COMPLIANT WITH I.R.C. CHAPTER 17 AND G2407 MAY BE ALLOWED WHEN DEEMED APPROPRIATE AND APPROVED. PROVIDE CLEARANCE BETWEEN COMBUSTIBLE MATERIALS AND VENTS AS PER CODE. (I.R.C. R303.8, CHAPTER 14, CHAPTER 17)

MECHANICAL HEATING SYSTEM TO BE 80% EFFICIENT BOILER WITH RADIANT IN FLOOR HYDRONIC HEATING SYSTEM. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING THE TEMPERATURE WITHIN 1 DEGREE OF THE THERMOSTAT SET POINT. THE CONTRACTOR SHALL GUARANTEE THAT THE SYSTEM SHALL HEAT AND COOL THE FACULTY TO 68 DEGREES FAHRENHEIT HEATING AND 70 DEGREES FAHRENHEIT COOLING AT 3'-0" ABOVE THE FLOOR AND 2'-0" FROM EXTERIOR WALLS THROUGH THE DBX 1000M - METAL BOX INSTALLATION OUT THE STRUCTURE. SUPPLIER TO PROVIDE HEAT LOSS CALCULATIONS, SHOP DRAWINGS, THERMOSTAT LOCATIONS AND CUT SHEETS ON ALL PROPOSED EQUIPMENT. SIZE EQUIPMENT AS PER I.R.C. M1401.3. PROVIDE 1" MINIMUM CLEARANCE AROUND EQUIPMENT AT SIDES AND REAR OF THE APPLIANCE AND 6" MINIMUM CLEARANCE IN FRONT OF THE APPLIANCE. PROVIDE TWO SEPARATE COMBUSTION AIR DUCTS, (FROM EXTERIOR) ONE TERMINATING IN LOWER 12" AND ONE TERMINATING IN UPPER 12" OF THE SPACE AS REQUIRED. EACH DUCT SHALL HAVE A FREE AREA TO ALLOW COMBUSTION AIR AT A RATE OF 1 SQUARE INCH PER 4,000 BTU'S (FOR VERTICAL DUCTS) AND 1 SQUARE INCH PER 2,000 BTU'S (FOR HORIZONTAL DUCTS) OF TOTAL INPUT RATING OF ALL APPLIANCES IN THE SPACE. OR AS PER MANUFACTURES SPECIFICATIONS. ALTERNATE COMBUSTION AIR OPTIONS COMPLIANT WITH I.R.C. CHAPTER 17 AND G2407 MAY BE ALLOWED WHEN DEEMED APPROPRIATE AND APPROVED. PROVIDE CLEARANCE BETWEEN COMBUSTIBLE MATERIALS AND VENTS AS PER CODE. (I.R.C. R303.8, CHAPTER 14, CHAPTER 17)

ALL HABITABLE ROOMS SHALL HAVE NATURAL VENTILATION EQUALING 4% OF THE FLOOR AREA. THIS SHALL BE PROVIDED THROUGH WINDOWS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOORS UNLESS AN APPROVED MECHANICAL VENTILATION SYSTEM IS PROVIDED CAPABLE OF PRODUCING 0.35 AIR CHANGES PER HOUR IN THE ROOM OR A WHOLE-HOUSE MECHANCAIL VENTILATION SYSTEM IS INSTALLED.

EXHAUST FANS SHALL BE SIZED FOR A MINIMAL RATE OF 50 CFM. ALL FANS TO BE DUCTED TO OUTSIDE. ALL EXHAUST DUCTS TO HAVE APPROVED TERMINATIONS WITH SCREENS. TERMINATIONS SHALL BE INSTALLED AS NOT TO BE BLOCKED INSULATION, GRILLS, CAPS, ETC. AS REQUIRED. (I.R.C. R303.3 AND M1507)

THE CONTRACTOR SHALL LAYOUT AND REFERENCE ALL MECHANICAL DRAWINGS. CONTRACTOR SHALL PROVIDE ALL ENGINEERING REQUIRED TO SIZE DUCTS, GRILLS, REGISTERS, ETC. REVIEW ALL LOCATIONS AND PLACEMENT FOR GRILLS ETC. WITH OWNER PRIOR TO PLACEMENT. THE ASSOCIATED ARCHITECTURAL MECHANICAL LAYOUTS AMD DRAWINGS

PROJECTS THAT REQUIRE MECHANICAL DUCT WORK SHALL CONFORM TO THE FOLLOWING. ALL DUCT WORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET STEEL TO CONFORM WITH "SMACNA" LOW PRESSURE DUCT CONSTRUCTION STANDARDS AND I.R.C. CHAPTER 16. FABRICATE SHEET METAL DUCTS WITH CROSS-BREAK OR KINK FLAT SURFACES TO PREVENT VIBRATION AND PULSATION. HANG DUCTS WITH STRAPS OF 18 GAUGE GALVANIZED STEEL OF 1" WIDE. ANCHOR DUCTS SECURELY TO STRUCTURE, WITH SCREWS, IN SUCH A MANNER AS TO PREVENT TRANSMISSION WITH VIBRATION. UNDERGROUND ROUND DUCT SHALL BE SCHEDULE 40 P.V.C. PIPE OR P.V.S. PIPE (AS REQUIRED BY LOCAL JURISDICTION) WITH FUSION WELDED JOINTS AND CONNECTIONS. RUN OUTS TO FLOOR GRILLES SHALL BE FABRICATED FROM SHEET P.V.C. OR P.V.S. OF SAME THICKNESS AS PIPE WITH ALL JOINTS AND CONNECTIONS FUSION WELDED.

REMOVE DEBRIS AND TRASH FROM DUCT WORK AND VACUUM CLEAN DUCTS. RUN SUPPLY AND EXHAUST FANS BEFORE GRILLES AND REGISTERS ARE INSTALLED AND BEFORE CEILINGS AND WALLS ARE PAINTED. THE ADJUSTMENT OF THE AIR SYSTEMS SHALL BE DONE BY THE MECHANICAL CONTRACTOR SYSTEMS SHALL BE ADJUSTED TO WITHIN PLUS OR MINUS 5% OF THE AIR CAPACITY.

INSULATE ALL HEATING TRUNK AND BRANCH SUPPLY DUCTS IN UNFINISHED AREAS, CRAWLS SPACES, ATTICS AND

all Gas line materials, workmanship, and installation as per industry standards. Natural Gas Service LINES SHALL BE NO LESS THAN 1 INCH IN DIAMETER. ALL NATURAL GAS LINES TO BE SCHEDULE 40 BLACK STEEL OR FLEX PLASTIC PIPE AS APPROVED BY GAS COMPANY. (I.R.C. CHAPTER 24, R156-56-709 (3) AND STATE AMENDMENT TO IFGC)

ALL GAS APPLIANCES SHALL BE PROVIDED WITH A SHUT OFF VALVE. SHUT OFF VALVES SHALL BE LOCATED IN A PLACES SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM DAMAGE.

# 23-01 RADIANT HEAT

MECHANICAL HEATING SYSTEM TO BE 80% EFFICIENT BOILER WITH RADIANT IN FLOOR HYDRONIC HEATING SYSTEM. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING THE TEMPERATURE WITHIN 1 DEGREE OF THE THERMOSTAT SET POINT. THE CONTRACTOR SHALL GUARANTEE THAT THE SYSTEM SHALL HEAT AND COOL THE FACULTY TO 68 DEGREES FAHRENHEIT HEATING AND 70 DEGREES FAHRENHEIT COOLING AT 3'-0" ABOVE THE FLOOR AND 2'-0" FROM EXTERIOR WALLS THROUGH OUT THE STRUCTURE. SUPPLIER TO PROVIDE HEAT LOSS CALCULATIONS, SHOP DRAWINGS, THERMOSTAT LOCATIONS AND CUT SHEETS ON ALL PROPOSED EQUIPMENT. SIZE EQUIPMENT AS PER I.R.C. M1401.3. PROVIDE CLEARANCES AS PER MANUFACTURE. PROVIDE TWO SEPARATE COMBUSTION AIR DUCTS, (FROM EXTERIOR) ONE TERMINATING IN LOWER 12" AND ONE TERMINATING IN UPPER 12" OF THE SPACE AS REQUIRED. EACH DUCT SHALL HAVE A FREE AREA TO ALLOW COMBUSTION AIR AT A RATE OF 1 SQUARE INCH PER 4,000 BTU'S (FOR VERTICAL DUCTS) AND 1 SQUARE INCH PER 2,000 BTU'S (FOR HORIZONTAL DUCTS) OF TOTAL INPUT RATING OF ALL APPLIANCES IN THE SPACE, OR AS PER MANUFACTURES SPECIFICATIONS. ALTERNATE COMBUSTION AIR OPTIONS COMPLIANT WITH I.R.C. CHAPTER 17 AND G2407 MAY BE ALLOWED WHEN DEEMED APPROPRIATE AND APPROVED. PROVIDE CLEARANCE

# 23-02 MECHANICAL HEATING AND COOLING

BETWEEN COMBUSTIBLE MATERIALS AND VENTS AS PER CODE. (I.R.C. R303.8, CHAPTER 14, CHAPTER 17)

MECHANICAL HEATING SYSTEM TO BE 90% EFFICIENT FORCED AIR FURNACE SYSTEM. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING THE TEMPERATURE WITHIN 1 DEDGREE OF THE THERMOSTAT SET POINT. THE CONTRACTOR SHALL GUARANTEE THAT THE SYSTEM SHALL HEAT AND COOL THE FACULTY TO 68 DEGREES FAHRENHEIT HEATING AND 70 DEGREES FAHRENHEIT COOLING AT 3'-0" ABOVE THE FLOOR AND 2'-0" FROM EXTERIOR WALLS THROUGH OUT THE STRUCTURE. SUPPLIER TO PROVIDE HEAT LOSS CALCULATIONS, SHOP DRAWINGS, THERMOSTAT LOCATIONS AND CUT SHEETS ON ALL PROPOSED EQUIPMENT. SIZE EQUIPMENT AS PER I.R.C. M1401.3. PROVIDE CLEARANCES AS PER MANUFACTURE. PROVIDE TWO SEPARATE COMBUSTION AIR DUCTS, (FROM EXTERIOR) ONE TERMINATING IN LOWER 12" AND ONE TERMINATING IN UPPER 12" OF THE SPACE AS REQUIRED. EACH DUCT SHALL HAVE A FREE AREA TO ALLOW COMBUSTION AIR AT A RATE OF 1 SQUARE INCH PER 4,000 BTU'S (FOR VERTICAL DUCTS) AND 1 SQUARE INCH PER 2,000 BTU'S (FOR HORIZONTAL DUCTS) OF TOTAL INPUT RATING OF ALL APPLIANCES IN THE SPACE, OR AS PER MANUFACTURES SPECIFICATIONS. ALTERNATE COMBUSTION AIR OPTIONS COMPLIANT WITH L.R.C., CHAPTER 17 AND G2407 MAY BE ALLOWED WHEN DEEMED APPROPRIATE AND APPROVED. PROVIDE CLEARANCE BETWEEN COMBUSTIBLE MATERIALS AND VENTS AS PER CODE. (I.R.C. R303.8, CHAPTER 14, CHAPTER 17)

COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH MECHANICAL AND PLUMBING FIXTURE SCHEDULES. COORDINATE WITH MECHANICAL AND PLUMBING KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

# 23-05 METAL DUCTWORK

PROJECTS THAT REQUIRE MECHANICAL DUCT WORK SHALL CONFORM TO THE FOLLOWING. ALL DUCT WORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET STEEL TO CONFORM WITH "SMACNA" LOW PRESSURE DUCT CONSTRUCTION STANDARDS AND I.R.C. CHAPTER 16. FABRICATE SHEET METAL DUCTS WITH CROSS-BREAK OR KINK FLAT SURFACES TO PREVENT VIBRATION AND PULSATION. HANG DUCTS WITH STRAPS OF 18 GAUGE GALVANIZED STEEL OF 1" WIDE. ANCHOR ducts securely to structure, with screws, in such a manner as to prevent transmission with vibration. UNDERGROUND ROUND DUCT SHALL BE SCHEDULE 40 P.V.C. PIPE OR P.V.S. PIPE (AS REQUIRED BY LOCAL JURISDICTION) WITH FUSION WELDED JOINTS AND CONNECTIONS. RUN OUTS TO FLOOR GRILLES SHALL BE FABRICATED FROM SHEET P.V.C. OR P.V.S. OF SAME THICKNESS AS PIPE WITH ALL JOINTS AND CONNECTIONS FUSION WELDED.

COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH MECHANICAL AND PLUMBING FIXTURE SCHEDULES. COORDINATE WITH MECHANICAL AND PLUMBING KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

# 23-06 AIR CONDITIONING CONDENSER

COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH MECHANICAL AND PLUMBING FIXTURE SCHEDULES. COORDINATE WITH MECHANICAL AND PLUMBING KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

# 23-07 EXHAUST FAN

FANS MUST BE CAPABLE OF TO MAINTAIN 50 CFM WITHIN ROOM LOCATED.

23-08 RECESSED DRYER VENT BOX

FANS SHALL BE DIRECTLY VENTED TO THE EXTERIOR

COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH MECHANICAL AND PLUMBING FIXTURE SCHEDULES. COORDINATE WITH MECHANICAL AND PLUMBING KEY NOTES

# INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

## DBX PRODUCTS

DBX 1000 PLASTIC DRYER VENT BOX

MADE OF HIGH IMPACT PLYSTYRENE, AND IS AVAILABLE IN 4" OR A 6" SIZE. THE DRYER VENT BOX CAN BE USED BOTH FOR UP AND DOWN VENT. A SNAP ON TRIM RING FOR FINISH TRIM AT EDGE. DBX 1000M- METAL DRYER VENT BOX WITH SNAP ON TRIM RING THE DBX 1000M IS 9 3/4" X 13 7/8" AND 3 1/2" DEEP. IT IS A 22 GAUGE METAL DRYER VENT BOX WITH A

22 GAUGE "SNAP ON TRIM RING". IT CAN BE INSTALLED IN 16" OR 24" O.C. FRAMING. THE DBX 1000M DRYER VENT BOX/RING IS POWDER COATED. FOR OPTIMUM RESULTS INSTALL THE DBX 1000M UP/DOWN VENTING IN 2"X4" OR 2"X6" FRAMED WALLS AS FOLLOWS: CONTRACTOR MAY SUBMIT A EQUAL SUBSTITUTE

# FOLLOW MANUFACTURER RECOMMENDED INSTALLATION INSTRUCTIONS.

DBX 1000 - PLASTIC INSTALLATION 1. ORIENT BOX TO MATCH DESIRED VENTING DIRECTION, SCORE & REMOVE APPROPRIATE TOP OR REAR INCH OVAL VENT PIPEKNOCK OUT. ALLOW MINIMUM OF 4 INCHES OF VENT OF PIPE TO EXTEND INSIDE BOX 2. IF GAS LINE IS TO BE INSTALLED, LOCATE 1% STRAW CLAMP ON TOP OF BOX, CUT THE WEBS BETWEEN THE 8 FINS WITH AUTILITY KNIFE, PUSH THE GAS LINE THROUGH THE STRAW CLAMP, THE FINS WILL FLEX INWARD HOLDING ELECTRICAL SERVICE CAPACITY AND SIZE SHALL BE COMPUTED BY METHOD INDICATED IN THE I.R.C. AND NATIONAL

3. SLIDE BOX INTO POSITION TAKING CARE TO CORRECTLY ALIGN VENT PIPE AND GAS PIPE (IF PRESENT) 4. SPACING TABS WILL AUTOMATICALLY POSITION BOX SO THAT BOTTOM, INSIDE EDGE IS FROM 21/4 TO 25/4 INCHES ABOVEUNFINISHED FLOOR TO ALLOW CLEARANCE BETWEEN TRIM RING AND FINISHED FLOOR COVERING, TABS LOCATED IN AN AREA THAT IS PROTECTED FROM OUTSIDE WEATHER. (I.R.C. E3305) MAY BE REMOVED IF ADIFFERENT SPACING IS DESIRED.

5. ATTACH BOX DIRECTLY TO BOTH RIGHT AND LEFT STUDS USING THE SIX FLANGE SCREW HOLES. SCREWS ARE RECOMMENDED FOR MOUNTING.

1. SNAP OUT LEFT OR RIGHT TRIM RING "CUT OUT" (SEE DETAIL BELOW). 2. LEAVE 1¾ INCHES BETWEEN INSIDE EDGE OF BOX AND END OF BASEBOARD TO ALLOW FOR TRIM RING 3. SNAP TRIM RING INTO OPENING, NO CAULKING REQUIRED.

4. LEAVE UNFINISHED OR PAINT WITH DESIRED COLOR.

1. ORIENT BOX TO MATCH DESIRED VENTING DIRECTION. ALLOW A MINIMUM OF 4" OF VENT PIPE TO

2. IF GAS LINE IS TO BE INSTALLED, INSERT INTO KNOCKOUT PROVIDED. 3. SLIDE BOX INTO POSITION TAKING CARE TO CORRECTLY ALIGN VENT PIPE AND GAS PIPE (IF PRESENT). 4. SET BOX SO THAT THE BOTTOM IS 2 5/8" ABOVE THE FLOOR TO ALLOW CLEARANCE FOR THE TRIM RING. 5. ATTACH BOX DIRECTLY TO EITHER FRAMING MEMBER AND USE STRAPS TO SECURE THE OTHER SIDE TO THE

OPPOSITE FRAMING MEMBER. 6. SCREWS OR NAILS (1 1/4") IN LENGTH TO ATTACH THE DBX1000M BOX TO FRAMING.

TRIM INSTALLATION INSTRUCTIONS: 1. TRIM CARPENTER TO LEAVE 1 ½" BETWEEN INSIDE EDGE OF BOX AND END OF BASEBOARD TO ALLOW TRIM RING CLEARANCE

2. SNAP TRIM RING INTO OPENING, NO CAULKING REQUIRED. 3. TRIM RING IS POWDER COATED, NO FINISHING REQUIRED 4. TRIM RING ACCOMMODATES 1/2" OR 5/8" DRYWALL.

# **DIVISION 26- ELECTRICAL**

FOR RECEPTACLES, ETC.

ALL DRAWINGS INDICATE LOCATIONS OF ELECTRICAL ITEMS AS DIAGRAMMATIC. LOCATIONS SHALL BE PER APPROPRIATE

CONTRACTOR SHALL COORDINATE WITH ELECTRICAL PLANS FOR ALL DESIRED LOCATIONS FOR ELECTRICAL SWITCHES, REMOVING EXISTING TREES, SHRUBS, GROUNDCOVERS, PLANTS, AND GRASS. OUTLETS, SCHEMATIC WIRING, EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH ELECTRICAL FIXTURE SCHEDULES AS SELECTED BY ARCHITECT OR OWNER, COORDINATE WITH ELECTRICAL KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS, AND ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR SHALL INSTALL ALL BOXES FOR OUTLETS, SWITCHES, LIGHTS, DATA, COMMUNICATIONS AND ALL SPECIALITY ITEMS AND SHALL REVIEW AND RECEIVE APPROVAL FROM OWNER/ARCHITECT/DESIGNER PRIOR TO INSTALLATION OF WIRING. RELOCATION OF BOXES AFTER WIRING AS DIRECTED BY OWNER/ARCHITECT/DESIGNER WITHOUT APPROVAL OF LOCATION SHALL BE COMPLETED WITH NOT COST TO THE OWNER.

THE ELECTRICAL SYSTEM SHALL COMPLY WITH 2012 I.R.C. AND 2005 N.E.C. AND BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES. THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMITY WITH THESE REGULATIONS WHETHER OR NOT SUCH WORK IS SPECIFICALLY SHOWN ON THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL FEEDERS, PANELS BOARDS, RELAY BRANCH CIRCUIT WIRING, CONDUITS, WIRE, METER BASES, COMPLETE WIRING FOR MOTORS, EXHAUST FANS, LINE VOLTAGE CONNECTIONS FOR HVAC EQUIPMENT SPECIALTY LIGHTING FIXTURES, OUTLET BOXES, COVER PLATES, WALL SWITCHES, FIXTURES

ALL DRAWINGS INDICATE LOCATIONS AS DIAGRAMMATIC. LOCATIONS SHALL BE PER APPROPRIATE CODES AND OWNER. ARE IN PLACE. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL POWER REQUIREMENTS. (I.R.C. E3801) PROVIDE A U-FER GROUND. AN ELECTRODE ENCASED BY A LEAST 2" OF CONCRETE SHALL BE LOCATED NEAR THE BOTTOM FEET OF BARE ELECTRICALLY CONDUCTIVE ROD AT LEAST 1/2 INCH IN DIAMETER OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG. (I.R.C. E3508.1.2 AND N.E.C. 250.50)

ELECTRICAL CODE. PANELS OR CABINETS ENCLOSING FUSES, CIRCUIT BREAKERS, SWITCHES OR OTHER ELECTRICAL SERVICE EQUIPMENT SHALL BE IN AN INCONSPICUOUS ACCESSIBLE AND PROTECTED LOCATION. ELECTRICAL PANEL CLEARANCES TO BE A MINIMUM 30" WIDTH, 36" DEPTH AND 6'-6" FROM FLOOR TOP. ELECTRICAL METER BASE SHALL BE

ALL RECEPTACLES LOCATED WITH THE FOLLOWING CONDITIONS TO BE GFCI PROTECTED: ALL KITCHEN COUNTERS, IN BATHROOMS, OUTSIDE AT GRADE LEVEL, UNFINISHED BASEMENTS, CRAWL SPACES, AND IN GARAGES, GARAGE RECEPTACLES TO BE 18" ABOVE FINISHED FLOOR. (I.R.C. E3802)

DIMMER SWITCHES TO BE "LUTRON" DIVA ROCKER SERIES IN WHITE. (O.A.E.) HEIGHT OF LIGHT SWITCHES FROM FINISHED FLOOR TO TOP OF SWITCH TO BE 48" TYPICAL UNLESS NOTED OTHERWISE. THE MOUNTING FROM THE FINISH FLOOR TO THE CENTER OF OUTLETS INCLUDING TELEPHONE, CATV, ETC. SHALL BE 18" TYPICAL. AT DESKS AND OTHER SURFACES THE OUTLETS SHALL BE 12" TO CENTERLINE ABOVE SURFACE. SWITCHES, OUTLETS, TELEPHONE, CATV, ETC. LOCATIONS SHALL BE REMOVE FENCE WHEN CONSTRUCTION IS COMPLETE. APPROVED PRIOR TO COMMENCEMENT OF WIRING.

UNLESS NOTED OTHERWISE LOCATE AND INSTALL ONE (1) GFCI WEATHER PROTECTED RECEPTACLE AT GRADE LEVEL AND OUTSIDE AT SOFFIT AT EACH EXTERIOR DOOR.

ALL FIXTURES SHALL HAVE A U.L. LABEL LISTING. IF NOT U.L. LISTED FIXTURE SHALL NOT BE USED. ALL RECESS DOWN LIGHTS LOCATED IN INSULATED CEILINGS TO BE THERMAL RATED AND BE AN AIR TIGHT SEAL TYPE CAN. ALL CAST IN PLACE FIXTURES TO BE INCLUDED IN BASE BID. ALL RECESSED DOWN LIGHTS TO BE INCLUDED IN BASE BID WITH TRIM RINGS AS SELECTED BY DESIGNER OR OWNER. ALL LIGHTS IN CLOSETS SHALL MEET I.R.C. E3903.11 REQUIREMENTS. ALL LIGHTS LOCATED IN WET OR DAMP LOCATIONS SHALL MEET I.R.C. E3903.8 - E3903.10 REQUIREMENTS.

SMOKE DETECTORS AT ALL BUILDING LEVELS, IN ALL BEDROOMS, ACCESS TO ALL BEDROOMS, ETC. (I.R.C. R313)

ALL BRANCH CIRCUITS THAT SUPPLY RECEPTACLE OUTLETS IN BEDROOMS NEED TO BE PROVIDED WITH ARC-FAULT PROTECTION. (N.E.C. 210-12) (IRC E3802.12)

ALL STRUCTURED WIRING (IE. FUTURE SMART CABLE, CATSE, ETC. TO HAVE A MINIMUM SEPARATION OF 12" BETWEEN HIGH STATE AMENDMENT)

## 26-01 ELECTRICAL SERVICE EQUIPMENT

ELECTRICAL SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL, STATE, AND FEDERAL BUILDING CODES. THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMITY WITH THESE REGULATIONS WHETHER OR NOT SUCH WORK IS SPECIFICALLY SHOWN ON THE DRAWINGS.

WIRING, CONDUITS, WIRE, METER BASES, COMPLETE WIRING FOR MOTORS, EXHAUST FANS, LINE VOLTAGE CONNECTIONS OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES. FOR HVAC EQUIPMENT, SPECIALTY LIGHTING FIXTURES, OUTLET BOXES, COVER PLATES, WALL SWITCHES, RECEPTACLES, ETC.

ALL DRAWINGS INDICATE LOCATIONS OF ELECTRICAL ITEMS AS DIAGRAMMATIC. LOCATIONS SHALL BE PER APPROPRIATE CODES AND OWNER.

ELECTRICAL SERVICE CAPACITY AND SIZE SHALL BE COMPUTED BY THE METHOD IRC CHAPTER 36.

UNLESS INDICATED IN THE 2012 IRC AND NATIONAL ELECTRICAL CODE. PANELS OR CABINETS ENCLOSING FUSES, CIRCUIT BREAKERS, SWITCHES, OR OTHER ELECTRICAL SERVICE EQUIPMENT SHALL BE IN AN INCONSPICUOUS ACCESSIBLE AND PROTECTED LOCATION. ELECTRICAL PANEL CLEARANCES TO BE A MINIMUM 30" WIDTH, 36" DEPTH AND 6'-6" FROM FINISHED FLOOR, ELECTRICAL METER BASE SHALL BE LOCATED IN AN AREA THAT IS PROTECTED FROM OUTSIDE WEATHER.

# **26-02 ELECTRICAL LIGHT FIXTURES**

LIGHTING CONTROLS AND MOTORIZED SHADES BY LUTRON. MANUFACTURER TO PROVIDE SHOP DRAWINGS AND SPECIFICATIONS TO BE REVIEWED BY ARCHITECT.

LIGHT SWITCHES SHALL BE INSTALLED AT A HEIGHT OF 48" FROM FINISHED FLOOR TO TOP OF SWITCH, UNLESS NOTED OTHERWISE. THE MOUNTING FROM THE FINISH FLOOR TO THE CENTER OF OUTLETS INCLUDING TELEPHONE, CATV, ETC. SHALL PERMITTED IN WRITING BY ARCHITECT AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY BE 18" TYPICAL. AT DESKS AND OTHER SURFACES THE OUTLETS SHALL BE A MAXIMUM OF 12" FROM THE CENTER LINE OF THE SERVICES ACCORDING TO REQUIREMENTS INDICATED. OUTLET ABOVE SURFACE. SWITCHES, OUTLETS, TELEPHONE, CATV, ETC. LOCATIONS SHALL BE APPROVED PRIOR TO

# 26-03 ELECTRICAL OUTLETS

EVITON 5601 ROCKER SERIES IN WHITE

DIMMER SWITCHES - LUTRON "DIVA" ROCKER SERIES IN WHITE

ALL RECEPTACLES LOCATED WITH THE FOLLOWING LOCATIONS ARE TO BE GFCI PROTECTED: ALL KITCHEN COUNTERS, IN ALL BATHROOMS, OUTSIDE AT GRADE LEVEL, IN UNFINISHED BASEMENTS, AND IN GARAGES. GARAGE RECEPTACLES TO BE

# 18" ABOVE FINISHED FLOOR (IRC E3902).

26-06 TELEPHONE EQUIPMENT

THE TELEPHONE SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR TO COORDINATE AND PROVIDE DIRECTION FOR INSTALLATION AND LOCATION OF OUTLETS.

# 26-07 STRUCTURED WIRING

ALL STRUCTURED WIRING SHALL BE A MINIMUM OF CAT 6 ALL LOCATIONS OF STRUCTURED WIRING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/ CONTRACTOR TO COORDINATE AND PROVIDE DIRECTION FOR INSTALLATION AND LOCATION OF OUTLETS

# **DIVISION 31- EARTHWORK**

PROTECTING EXISTING TREES, SHRUBS, GROUNDCOVERS, PLANTS, AND GRASS TO REMAIN.

CLEARING AND GRUBBING

STRIPPING AND STOCKPILING TOPSOIL

REMOVING ABOVE- AND BELOW-GRADE SITE IMPROVEMENTS

DISCONNECTION AND CAPPING OR SEALING SITE UTILITIES.

TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES.

SALVABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON OWNER'S PREMISES

WHERE INDICATED. UTILITY LOCATOR SERVICE: NOTIFIY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED.

DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PLACE DRAINAGE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE. GRADE AS FOLLOWS: OF THE CONCRETE FOUNDATION SYSTEM AND SHALL BE IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 PROTECT AND MAINTAIN BENCHMARKS AND SRUVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION. LOCATE AND CLEARLY FLAG TREES AND VEGETATION TO REMAIN OR TO BE RELOCATED.

> PROTECT EXISTINT SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.

TEMPORARY EROSION AND SEDIMENTATION CONTROL provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge 📁 extent possible. OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.

INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. ALL SWITCHES, RECEPTACLES, TELEPHONE JACKS AND CATV JACKS TO BE "LEVITON" 5601 ROCKER SERIES IN WHITE. (O.A.E.) REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

ERECT AND MAINTAIN TEMPORARY FENCING AROUND TREE PROTECTION ZONES BEFORE STARTING SITE CLEARING.

DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES, UNLESS OTHERWISE INDICATED. REPAIR OR REPLACE TREES AND VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION

OPERATIONS, IN A MANNER APPROVED BY ARCHITECT.

ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES. EXISTING UTILITIES: DON OT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTEE SMOKE DETECTORS TO BE HARD WIRED TO BUILDING CIRCUIT AND INTERCONNECTED WITH BATTERY BACK UP. PROVIDE UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES

ACCORDING TO REQUIREMENTS INDICATED: NOTIFY ARCHITECT NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.

LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITIES INDICATED TO BE REMOVED.

2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITH ARCHITECT'S PERMISSION.

L DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERILA UNLESS CARBON MONOXIDE DETECTORS TO BE INSTALLED ON EACH HABITABLE LEVEL OF A DWELLING UNIT EQUIPPED WITH FUEL FURTHER EXCAVATION OR EARTHWORK IS INDICATED. PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A

> REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.

STOCKPILE TOPSOIL MATERIALS AWAY FROM THE EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.

DISPOSAL: REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTION, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL FEEDERS, PANEL BOARDS, RELAY BRANCH CIRCUIT SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NONRECYCLABLE MATERIALS. STORE

# 31-02 EARTHWORK

DRAINAGE COURSE FOR SLABS-ON-GRADE.

PREPARING SUBGRADES FOR SLABS-ON-GRADE, WALKS, PAVEMENTS, LAWNS AND GRASSES, AND EXTERIOR PLANTS.

EXCAVATING AND BACKFILLING FOR BUILDING AND STRUCTURES.

SUBBASE COURSE FOR CONCRETE WALKS, PAVEMENTS.

SUBBASE AND BASE COURSE FOR ASPHALT PAVING.

EXCAVATING AND BACKFILLING FOR UTILITY TRENCHES.

EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS

GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS SATISFACTORY SOILS: [ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM] [AASHTO M 145

OTHER DELETERIOUS MATTER. UNSATISFACTORY SOILS: SOILS CLASSIFICATION GROUPS [GC, SC,CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487] [A-2-6, A-2-7, A-4, A-5, A-6, AND A-7 ACCORDING TO AASHTO M 145], OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.

SOIL CLASSIFICATIONS GROUPS A-1, A-2-4, A-2-5, AND A-3], OR A COMBINATION OF THESE GROUPS; FREE OF ROCK

OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND

PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTHWORK

PREPARATION OF SUBGRADE FOR EARTHWORK OPERATIONS INCLUDING REMOVAL OF VEGETATION, TOPSOIL, DEBRIS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS.

EXCAVATE FOR STRUCTURES TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND

STOCKPILE BORROW SOIL MATERIALS AND EXCAVATED SATISFACTORY SOIL MATERIALS WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER.

STOCKPILE SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINE OF REMAINING

PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS: UNDER FOOTINGS AND FOUNDATIONS, USE ENGINEERED FILL.

PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. 1. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 92 PERCENT. 2. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACE EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 85 PERCENT. 3. FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT 85

GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECITONS, LINES, AND ELEVATIONS INDICATED. SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:

WALKS: PLUS OR MINUS 1 INCH. PAVEMENTS: PLUS OR MINUS 1/2 INCH

LAWN OR UNPAVED AREAS: PLUS OR MINUS 11 INCH.

GRADING INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF 1/2 INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.

#### SUBBASE AND BASE COURSES SUBBASE [AND BASE] COURSE ON SUBGRADES FREE OF MUD, FROST, NOW, OR ICE. ON PREPARED SUBGRADE, PLACE SUBBASE [AND BASE] COURSE UNDER PAVEMENTS AND WALKS AS FOLLOWS:

SHAPE SUBBASE [AND BASE] COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES. COMPACT SUBBASE [AND BASE] COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO [ASTM D 698] [ASTM D 1557].

DRAINAGE COURSI

ON PREPARED SUBGRADE, PLACE AND COMPACT DRAINAGE COURSE UNDER CAST-IN-PLACE CONCRETE SLABS-ON-PLACE DRAINAGE COURSE THAT EXCEEDS 6 INCHES IN COMPACTED THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO COMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES THICK. COMPACT EACH LAYER OF DRAINAGE COURSE TO REQUIRED CROSS SECTIONS AND THICKNESSES TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698.

WHERE SETTLING OCCURS, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING.

RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, TO GREATEST

### 31-03 TEMPORARY SHORING

SECTION INCLUDES TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEMS.

FURNISH, INSTALL, MONITOR, AND MAINTAIN EXCAVATION SUPPORT AND PROTECTION SYSTEM CAPABLE OF SUPPORTING EXCAVATION SIDEWALLS AND OF RESISTING SOIL AND HYDROSTATIC PRESSURE AND SUPERIMPOSED AND CONSTRUCTION LOADS. DESIGN EXCAVATION SUPPORT AND PROTECTION SYSTEM, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

SHOP DRAWINGS: FOR EXCAVATION SUPPORT AND PROTECTION SYSTEM.

DELEGATED-DESIGN SUBMITTAL: FOR EXCAVATION SUPPORT AND PROTECTION SYSTEM INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

SURVEY WORK: ENGAGE A QUALIFIED LAND SURVEYOR OR PROFESSIONAL ENGINEER TO SURVEY ADJACENT EXISTING BUILDINGS, STRUCTURES, AND SITE IMPROVEMENTS; ESTABLISH EXACT ELEVATIONS AT FIXED POINTS TO ACT

AS BENCHMARKS. CLEARLY IDENTIFY BENCHMARKS AND RECORD EXISTING ELEVATIONS. DURING INSTALLATION OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS, REGULARLY RESURVEY BENCHMARKS, MAINTAINING AN ACCURATE LOG OF SURVEYED ELEVATIONS AND POSITIONS FOR COMPARISON WITH ORIGINAL ELEVATIONS AND POSITIONS. PROMPTLY NOTIFY ARCHITECT IF CHANGES IN ELEVATIONS OR POSITIONS OCCUR OR IF CRACKS, SAGS, OR OTHER DAMAGE IS EVIDENT IN ADJACENT CONSTRUCTION.

GENERAL: PROVIDE MATERIALS THAT ARE EITHER NEW OR IN SERVICEABLE CONDITION.

STRUCTURAL STEEL: ASTM A 36/A 36M, ASTM A 690/A 690M, OR ASTM A 992/A 992M.

STEEL SHEET PILING: ASTM A 328/A 328M, ASTM A 572/A 572M, OR ASTM A 690/A 690M; WITH CONTINUOUS

WOOD LAGGING: LUMBER, MIXED HARDWOOD, NOMINAL ROUGH THICKNESS OR [SIZE AND STRENGTH REQUIRED

REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.

INSTALLATION SOLDIER PILES: INSTALL STEEL SOLDIER PILES BEFORE STARTING EXCAVATION. EXTEND SOLDIER PILES BELOW EXCAVATION GRADE LEVEL TO DEPTHS ADEQUATE TO PREVENT LATERAL MOVEMENT. SPACE SOLDIER PILES AT REGULAR INTERVALS NOT TO EXCEED ALLOWABLE FLEXURAL STRENGTH OF WOOD LAGGING. ACCURATELY ALIGN EXPOSED FACES OF FLANGES TO VARY NOT MORE THAN 2 INCHES (50 MM) FROM A HORIZONTAL LINE NAD NOT

CAST-IN-PLACE CONCRETE: AC1301, OF COMPRESSIVE STRENGTH REQUIRED FOR APPLICATION.

MORE THAN 1:120 OUT OF VERTICAL ALIGNMENT. 1.INSTALL WOOD LAGGING WITHIN FLANGES OF SOLDIER PILES AS EXCAVATION PROCEEDS. TRIM EXCAVATION AS REQUIRED TO INSTALL LAGGING. FILL VOIDS BEHIND LAGGING WITH SOIL, AND COMPACT. 2.INSTALL WALES HORIZONTALLY AT LOCATIONS INDICATED ON DRAWINGS AND SECURE TO SOLDIER

SHEET PILING: BEFORE STARTING EXCAVATION, INSTALL ONE-PIECE SHEET PILING LENGTHS AND TIGHTLY INTERLOCK TO FORM A CONTINUOUS BARRIER. ACCURATELY PLACE THE PILING, USING TEMPLATES AND GUIDE FRAMES UNLESS OTHERWISE RECOMMENDED IN WRITING BY THE SHEET PILING MANUFACTURER. LIMIT VERTICAL OFFSET OF ADJACENT SHEET PILING TO 60 INCHES (1500 MM). ACCURATELY ALIGN EXPOSED FACES OF SHEET PILING TO VARY NOT MORE THAN 2 INCHES (50 MM) FROM A HORIZONTAL LINE AND NOT MORE THAN 1:120 OUT OF VERTICAL

WORK. IF NECESSARY TO MOVE BRACE, INSTALL NEW BRACING BEFORE REMOVING ORIGINAL BRACE. 1.DO NOT PLACE BRACING WHERE IT WILL BE CAST INTO OR INCLUDED IN PERMANENT CONCRETE WORK UNLESS OTHERWISE APPROVED BY ARCHITECT. 2.INSTALL INTERNAL BRACING, IF REQUIRED, TO PREVENT SPREADING OR DISTORTION OF BRACED

BRACING: LOCATE BRACING TO CLEAR COLUMNS, FLOOR FRAMING CONSTRUCTION, AND OTHER PERMANENT

ALIGNMENT. CUT TOPS OF SHEET PILING TO UNIFORM ELEVATION AT TOP OF EXCAVATION.

MAINTAIN BRACING UNTIL STRUCTURAL ELEMENTS ARE SUPPORTED BY OTHER BRACING OR UNITL PERMANENT CONSTRUCTION IS ABLE TO WITHSTAND LATERAL EARTH AND HYDROSTATIC PRESSURES.

REMOVE EXCAVATION SUPPORT AND PROTECTION SYSTEMS WHEN CONSTRUCTION HAS PROGRESSED SUFFICIENTLY

TO SUPPORT EXCAVATION AND BEAR SOIL AND HYDROSTATIC PRESSURES. REMOVE IN STAGES TO AVOID

DISTURBING UNDERLYING SOILS OR DAMAGING STRUCTURES, PAVEMENTS, FACILITIES, AND UTILITIES.

R401.3)

31-05 FINISH GRADE FINISH GRADING TO PROVIDE FOR DRAINAGE AWAY FROM BUILDING AND CONTAINMENT OF DRAINAGE WITHIN PROPERTY. GRADE SHALL SLOPE A MINIMUM OF 6 INCHES IN THE FIRST 10 FEET AWAY FROM THE BUILDING. (IRC

ALL GRADING REQUIREMENTS ARE PER CIVIL ENGINEER'S DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL GRADING WITH CIVIL ENGINEERING DRAWINGS.

### 31-06 DEWATERING

LL DEWATERING IS NOT INCLUDED WITHIN ARCHITECTURAL DESIGN.

DETERMINATION OF ANY DEWATERING SYSTEMS SHALL BE THE RESPONSIBILITY OF THE SOILS ENGINEER AND OWNER. ALL DESIGNS OF ANY DEWATERING SYSTEMS SHALL BE THE RESPONSIBILITY OF THE OWNER, SOILS ENGINEER AND CIVIL ENGINEER. ALL COORDINATION OF SUCH SYSTEM WILL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR.

### 31-07 TERMITE CONTROL

General/products Soil treatment with termiticide

WOOD TREATMENT WITH BORATE

# PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE THE EPA-REGISTERED LABEL.

TREATMENT APPLICATION REPORT. INCLUDE THE FOLLOWING: DATE AND TIME OF APPLICATION.

MOISTURE CONTENT OF SOIL BEFORE APPLICATION. BRAND NAME AND MANUFACTURER OF TERMITICIDE.

QUANTITY OF UNDILUTED TERMITICIDE USED

DILUTIONS, METHODS, VOLUMES, AND RATES OF APPLICATION USED. AREAS OF APPLICATION. WATER SOURCE FOR APPLICATION.

WOOD TREATMENT APPLICATION REPORT. INCLUDE THE FOLLOWING:

DATE AND TIME OF APPLICATION. BRAND NAME AND MANUFACTURER OF BORATE. QUANTITY OF UNDILUTED BORATE USED.

DILUTIONS, METHODS, VOLUMES, AND RATES OF APPLICATION USED.

INSTALLER QUALIFICATIONS: A SPECIALIST WHO IS LICENSED ACCORDING TO REGULATIONS OF AUTHORITIES HAVING JURISDICTION TO APPLY TERMITE CONTROL TREATMENT AND PRODUCTS IN JURISDICITON WHERE PROJECT IS LOCATED [AND WHO EMPLOYS WORKERS TRAINED AND APPROVED BY BAIT-STATION SYSTEM MANUFACTURER TO INSTALL

MANUFACTURER'S PRODUCTS]. REGULATORY REQUIREMENTS: FORMULATE AND APPY TERMITICIDES ACCORDING TO THE EPA-REGISTERED LABEL.

TERMITE CONTROL WORK, CONSISTING OF APPLIED SOIL TERMITICIDE TREATMENT, WILL PREVENT INFESTATION OF SUBTERRANEAN TERMITES. IF SUBTERRANEAN TERMITE ACTIVITY OR DAMAGE IS DISCOVERED DURING WARRANTY PERIOD, RE-TREATMENT SOIL AND REPAIR OR REPLACE DAMAGE CAUSED BY TERMITE INFESTATION. WARRANTY PERIOD: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

CONTINUING SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, PROVIDE 12 MONTHS CONTINUING SERVICE

SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM, SIGNED BY APPLICATOR AND CONTRACTOR CERTIFYING THAT

INCLUDING MONITORING, INSPECTION, AND RE-TREATMENT FOR OCCURRENCES OF TERMITE ACTIVITY. PROVIDE A STANDARD CONTINUING SERVICE AGREEMENT. STATE SERVICE, OBLIGATIONS, CONDITIONS, AND TERMS FOR AGREEMENT PERIOD; AND TERMS FOR FUTURE RENEWAL OPTIONS.

AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS

THAT MAY BE INCORPORATED INTO THE WORK, INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: TERMITICIDES

AVENTIS ENVIRONMENTAL SCIENCE USA LP; TERMIDOR. BAYER CORPORATION; PREMISE 75

NISCUS CORP.; BORA-CARE, JECTA.

SYNGENTA; DEMON TC.

BORATES:

DOW AGROSCIENCES LLC; [DURSBAN TC] [EQUITY]

NOVAGUARD TECHNOLOGIES, INC.; ARMOR-GUARD, SHELL-GUARD. U.S. BORAX INC.; TIM-BOR TERMITICIDE: PROVIDE AN EPA-REGISTERED TERMITICIDE COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING

FMC CORPORATION, AGRICULTURAL PRODUCTS GROUP; [TALSTAR] [PREVAIL FT] [TORPEDO]

EACH SPECIFIC USE, ACCORDING TO PRODUCT'S EPA-REGISTERED LABEL. BORATE: PROVIDE AN EPA-REGISTERED BORATE COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION,

IN AN AQUEOUS SOLUTION FOR SPRAY APPLICATION AND A GEL SOLUTION FOR PRESSURE INJECTION, FORMULATED TO

JURISDICTION, IN AN AQUEOUS SOLUTION FORMULATED TO PREVENT TERMITE INFESTATION. PROVIDE QUANTITY REQUIRED

FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM TERMITICIDE CONCENTRATION ALLOWED FOR

PREVENT TERMITE INFESTATION IN WOOD. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND

PREPARATION 1. GENERAL: REMOVE ALL EXTRANEOUS SOURCES OF WOOD CELLULOSE AND OTHER EDIBLE MATERIALS SUCH AS WOOD DEBRIS, TREE STUMPS AND ROOTS, STAKES, FORMWORK, AND CONSTRUCTION WASTE WOOD FROM SOIL WITHIN AND AROUND FOUNDATIONS SOIL TREATMENT PREPARATION: LOOSEN, RAKE AND LEVEL SOIL TO BE TREATED EXCEPT PREVIOUSLY

COMPACTED AREAS UNDER SLABS AND FOOTINGS. TERMITICIDES MAY BE APPLIED BEFORE PLACING

COMPACTED FILL UNDER SLABS IF RECOMMENDED IN WRITING BY TERMITICIDE MANUFACTURER. APPLYING SOIL 1. APPLICATION: MIX SOIL TREATMENT TERMITICIDE SOLUTION TO A UNIFORM CONSISTENCEY. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMIUM CONCENTRATION OF TERMITICIDE, ACCORDING TO MANUFACTURER'S EPA-REGISTERED LABEL, TO THE FOLLOWING SO THAT A CONTINUOUS HORIZONTAL AND VERTICAL TERMITICIDAL BARRIER OR TREATED. ZONE IS ESTABLISHED AROUND AND UNDER BUILDING CONSTRUCTION. DISTRIBUTE TREATMENT EVENLY

INCLUDING FOOTINGS, BUILDNG SLABS, AND ATTACHED SLABS AS AN OVERALL TREATMENT. TREAT SOIL MATERIALS BEFORE CONCRETE FOOTINGS AND SLABS ARE PLACED. B. FOUNDATIONS: ADJACENT SOIL INCLUDING SOIL ALONG THE ENTIRE INSIDE PERIMETER OF FOUNDATION WALLS, ALONG BOTH SIDES OF INTERIOR PARTITION WALLS, AROUND PLUMBING PIPES AND ELECTRIC CONDUIT PENETRATING THE SLAB, AND AROUND INTERIOR COLUMN FOOTERS,

E. PENETRATIONS: AT EXPANSION JOINTS, CONTROL JOINTS, AND AREAS WHERE SLABS WILL BE

A. SLABS-ON-GRADE AND BASEMENT SLABS: UNDER GROUND-SUPPORTED SLAB CONSTRUCTION,

C. CRAWLSPACES: SOIL UNDER AND ADJACENT TO FOUNDATIONS AS PREVIOUSLY INDICATED. TREAT ADJACENT AREAS INCLUDING AROUND ENTRANCE PLATFORM, PORCHES, AND EQUIPMENT BASES. APPLY OVERALL TREATMENT ONLY WHERE ATTACHED CONCRETE PLATFORM PORCHES ARE ON FILL OR GROUND.

PIERS, AND CHIMNEY BASES; ALSO ALONG THE ENTIRE OUTSIDE PERIMETER, FROM

BOTTOM OF FOOTING. AVOID SOIL WASHOUT AROUND FOOTINGS.

4. POST WARNING SIGNS IN AREAS OF APPLICATION.

PENETRATED

PAINTING SECTIONS.

2. AVOID DISTURBANCE OF TREATED SOIL AFTER APPLICATION. KEEP OFF TREATED AREAS UNTIL 3. PROTECT TERMITICIDE SOLUTION, DISPERSED IN TREATED SOILS AND FILLS, FROM BEING DILUTED UNTIL GROUND-SUPPORTED SLABS ARE INSTALLED. USE WATERPROOF BARRIER ACCORDING TO EPA-REGISTERED LABEL

LANDSCAPING, OR OTHER CONSTRUCTION ACTIVITIES FOLLOWING APPLICATION. APPLYING BORATE TREATMENT 1. APPLICATION: MIX WOOD TREATMENT BORATE SOLUTION TO A UNIFORM CONSISTENCY. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM SPECIFIED CONCENTRATION OF BORATE, ACCORDING TO MANUFACTURER'S EPA REGISTERED LABEL, SO THAT

FRAMING, SHEATHING, SIDING, AND STRUCTURAL MEMBERS SUBJECT TO INFESTATION RECEIVE TREATMENT.

5. REAPPLY SOIL TREATMENT SOLUTION TO ARES DISTURBED BY SUBSEQUENT EXCAVATION, GRADING,

A. FRAMING AND SHEATHING: APPLY BORATE SOLUTION BY SPRAY TO BARE WOOD FOR COMPLETE B. WOOD MEMBERS THICKER THAN 4 INCHES: INJECT BORATE GELL SOLUTION UNDER PRESSURE INTO HOLES OF SIZE AND SPACING REQURIED BY MANUFACTURER FOR TREATMENT. C.EXTERIOR UNCOATED WOOD TRIM AND SIDING: APPLY BORATE SOLUTION TO BARE WOOD SIDING. AFTER 48 HOURS, APPLY A SEAL COAT OF STAIN AS SPECIFIED IN DIVISION 09

# 31-11 EROSION CONTROL

ALL EROSION CONTROL IS THE RESPONSIBILITY OF THE CIVIL ENGINEER FOR DESIGN AND DRAWINGS. ALL EROSION CONTROL MUST MEET ALL LOCAL REQUIRMENTS.

Interior Design Landscape Architecture Land Planning Construction Manageme

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 $\mathcal{C}$ # ESIDEN S R

**GRADE TO** 

**REVISIONS:** 

# **BUILDING KEYNOTES AND SPECIFICATIONS**

# **DIVISION 32- EXTERIOR IMPROVEMENTS/LANDSCAPING** 32-04 UNIT PAVERS/ RETAINING WALLS/ STAIRS

<u>GENERAL/PRODUCTS</u>
PAVERS SHALL BE THE FOLLOWING:

AS PER LANDSCAPE DRAWINGS PAVERS SHALL BE INSTALLED IN FOLLOWING PATTERN: AS PER LANDSCAPE DRAWINGS PAVER COLOR SHALL SELECTED BY ARCHITECT. AS PER LANDSCAPE DRAWINGS

<u>Submittals</u> Samples for unit pavers, Joint Materials, and edge restraints

EXECUTION DO NOT USE FROZEN MATERIALS OR BUILD ON FROZEN SUBGRADE OR SETTING BEDS. PROTECT UNIT PAVER WORK AGAINST FREEZING FOR 24 HOURS AFTER INSTALLATION.

MIX PAVERS FROM SEVERAL PALLETS OR CUBES, AS THEY ARE PLACED, TO PRODUCE UNIFORM BLEND OF COLORS AND

CUT UNIT PAVERS WITH MOTOR-DRIVEN MASONRY SAW EQUIPMENT TO PROVIDE PATTERN INDICATED AND TO FIT ADJOINING WORK NEATLY. USE FULL UNITS WITHOUT CUTTING WHERE POSSIBLE. INSTALL EDGE RESTRAINTS BEFORE PLACING UNIT PAVERS.

TOLERANCES: DO NOT EXCEED 1/16-INCH UNIT-TO-UNIT OFFSET FROM FLUSH (LIPPAGE) NOR 1/8 INCH IN 24 INCHES AND 1/4 INCH IN 10 FEET FROM LEVEL, OR INDICATED SLOPE, FOR FINISHED SURFACE OF PAVING.

COMPACT SOIL SUBGRADE UNIFORMLY AND PLACE AGGREGATE BASE, COMPACT BY TAMPING WITH PLATE VIBRATOR, AND SCREED TO DEPTH AS INDICATED

PLACE LEVELING COURSE AND SCREED TO A THICKNESS OF 1 TO 1-1/2 INCHES, TAKING CARE THAT MOISTURE CONTENT REMAINS CONSTANT AND DENSITY IS LOOSE AND CONSTANT UNTIL PAVERS ARE SET AND COMPACTED. TREAT LEVELING COURSE WITH HERBICIDE TO INHIBIT GROWTH OF GRASS AND WEEDS.

SET PAVERS WITH A MINIMUM JOINT WIDTH OF 1/16 INCH AND A MAXIMUM OF 1/8 INCH , BEING CAREFUL NOT TO DISTURB LEVELING BASE. IF PAVERS HAVE SPACER BARS, PLACE PAVERS HAND TIGHT AGAINST SPACER BARS.

VIBRATE PAVERS INTO LEVELING COURSE AND SPREAD DRY SAND AND FILL JOINTS IMMEDIATELY AFTER VIBRATING PAVERS INTO LEVELING COURSE. VIBRATE PAVERS AND ADD SAND UNTIL JOINTS ARE COMPLETELY FILLED, THEN REMOVE EXCESS SAND. LEAVE A SLIGHT SURPLUS OF SAND ON THE SURFACE FOR JOINT FILLING.

32-10 IRRIGATION SYSTEMS

GENERAL/PRODUCTS
SEE LANDSCAPE DRAWINGS

ALL IRRIGATION SHALL MEET ALL CITY LANDSCAPE REQUIREMENTS.

32-11 PLANTING GENERAL/PRODUCTS SEE LANDSCAPE DRAWINGS.

ALL PLANTING SHALL MEET ALL CITY LANDSCAPE REQUIREMENTS.



Architecture

Architecture Interior Design Landscape Architecture Land Planning

Construction Management 7927 So. Highpoint Parkway, Suite 300 Sandy, Utah 84094 ph. 801.269.0055

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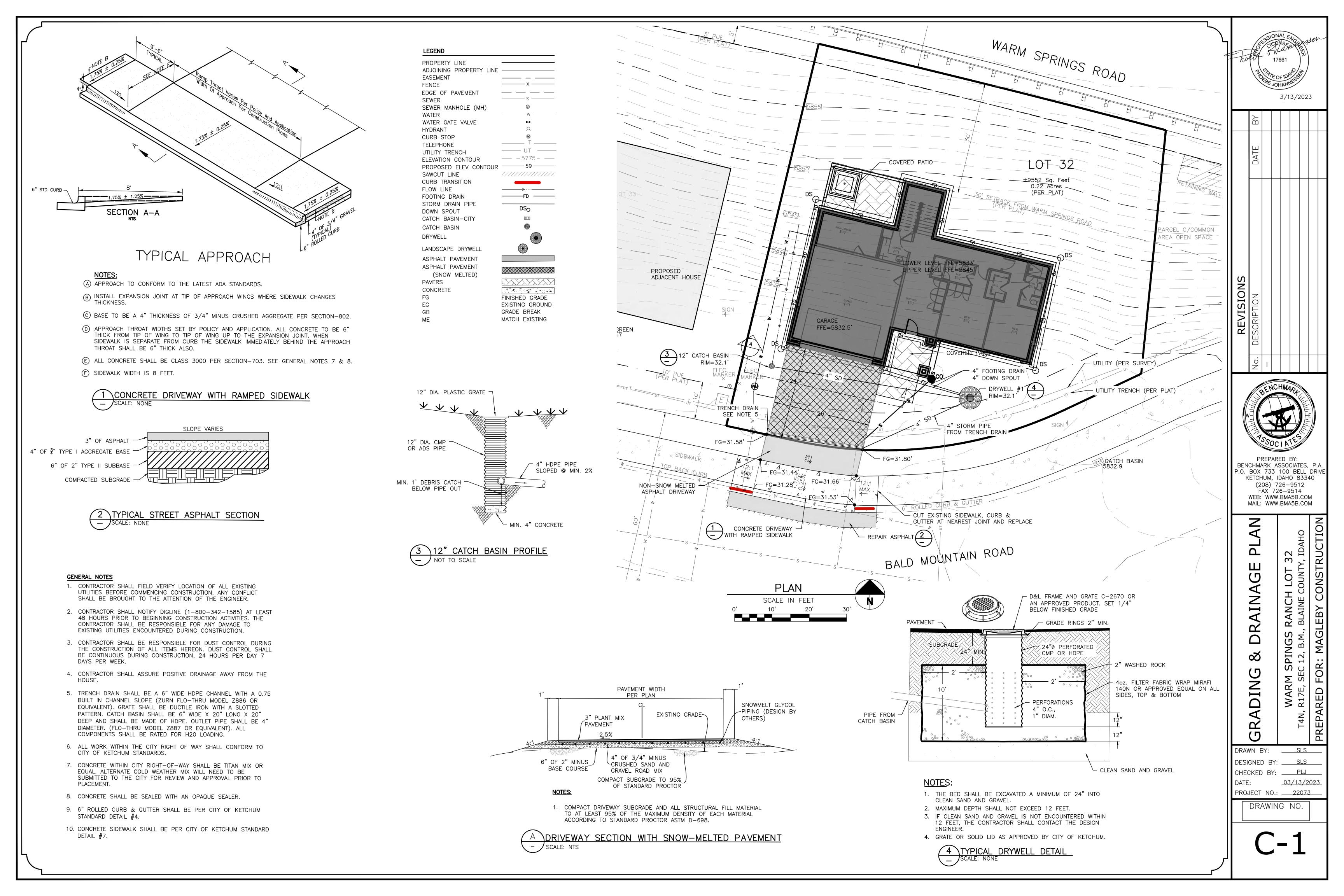


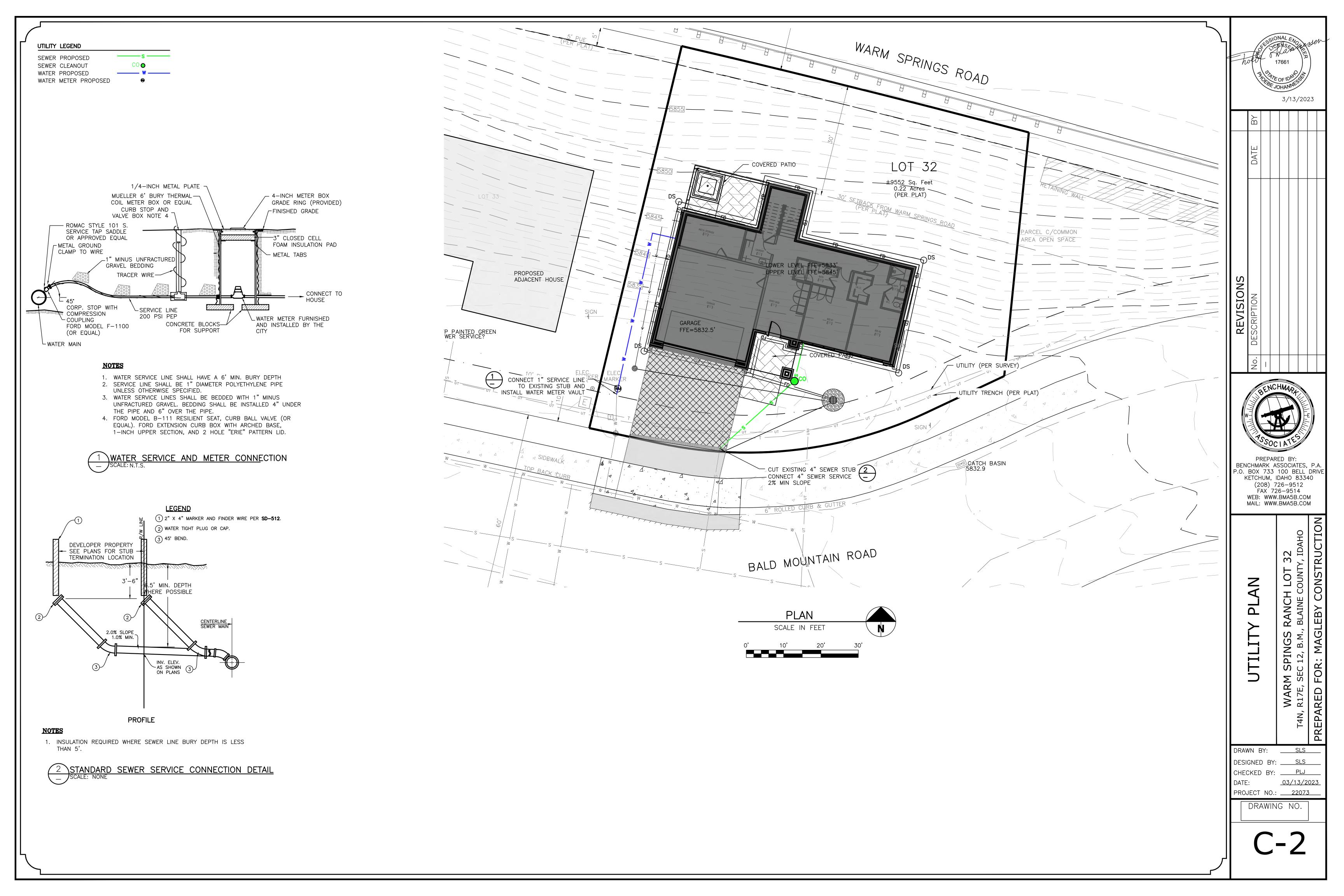
WARM SPRINGS RESIDENCE

PROJECT NC22023.32 DATE: 2023.06.30

REVISIONS:

SHEET TITLE:
SPECIFICATIONS





Issue/Revisions: Date: Design Review 03/17/23 DRRVSD 05/01/23

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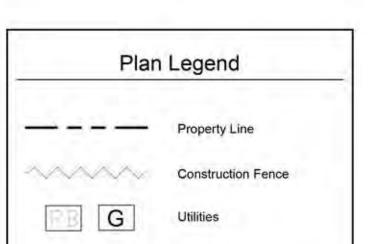
Construction Management Sheet No:

Cut And Fill:

780 Cubic Yards

Total Fill = 80 Cubic Yards

Total Export = 700 Cubic Yards



Material Storage

General Notes

field prior to construction.

4. Site serviced by City of Ketchum.





6' Construction Fence

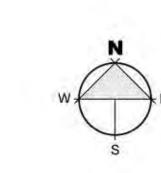
(1) See Civil Plans for All Work in Right of Way.

CONSTRUCTION ACTIVITY NOTES: (1) Dust Control Using Water Truck as Needed.(2) All Construction Traffic Shall Have Tires Inspected for Mud, Sand, and Gravel Prior to Leaving Site. Any Material Shall be Removed Prior to Entering City Streets.

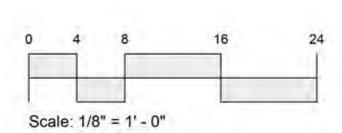
(3) Contractor is Responsible for Snow Removal of Site and Construction Parking.

(4) Any Temporary Use Of The Public Right-Of-Way Will Require A Temporary Use Right-Of-Way (TURP) Permit From The City. (5) All Neighbors In The Project Vicinity Shall Be Provided Notice Of The Project, Schedule And The General Contractor's Contact Information In Advance Of Construction.

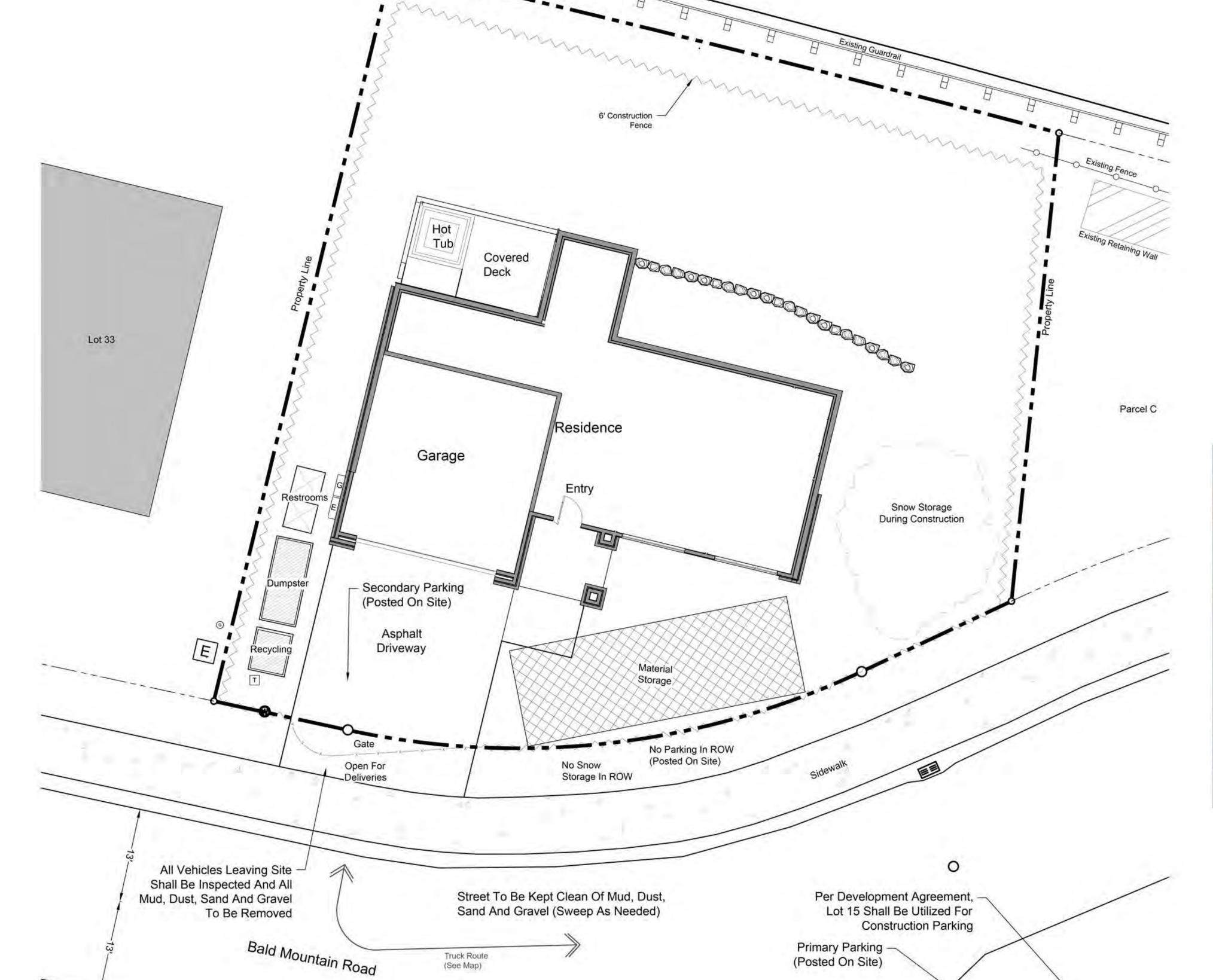
(6) The Job Site Shall Be Kept In A Clean And Orderly Condition, Trash Shall Be Picked Up On The Site And Surrounding Areas On A Daily Basis, And Materials Shall Be Stored In Neat, Tidy Piles. (7) The Condition Of The Right-Of-Way Shall Be Documented With Photographs And A Site Visit With Street Department Personnel. Repair Of Damage To The Right-Of-Way Shall Be The Responsibility Of The General Contractor. (8) Manholes May Not Be Obstructed At Any Time. In Addition, Minimum Three Feet Clear Shall Be Maintained On Back And Sides Of Fire Hydrants, And Minimum 15 Feet Clear Shall Be Maintained On The Front, Street Side Of Fire Hydrants. (9) Speed Limits For Construction Vehicles Shall Be Limited To 15 MPH Within One Block Of The Construction Site, Unless Otherwise Determined

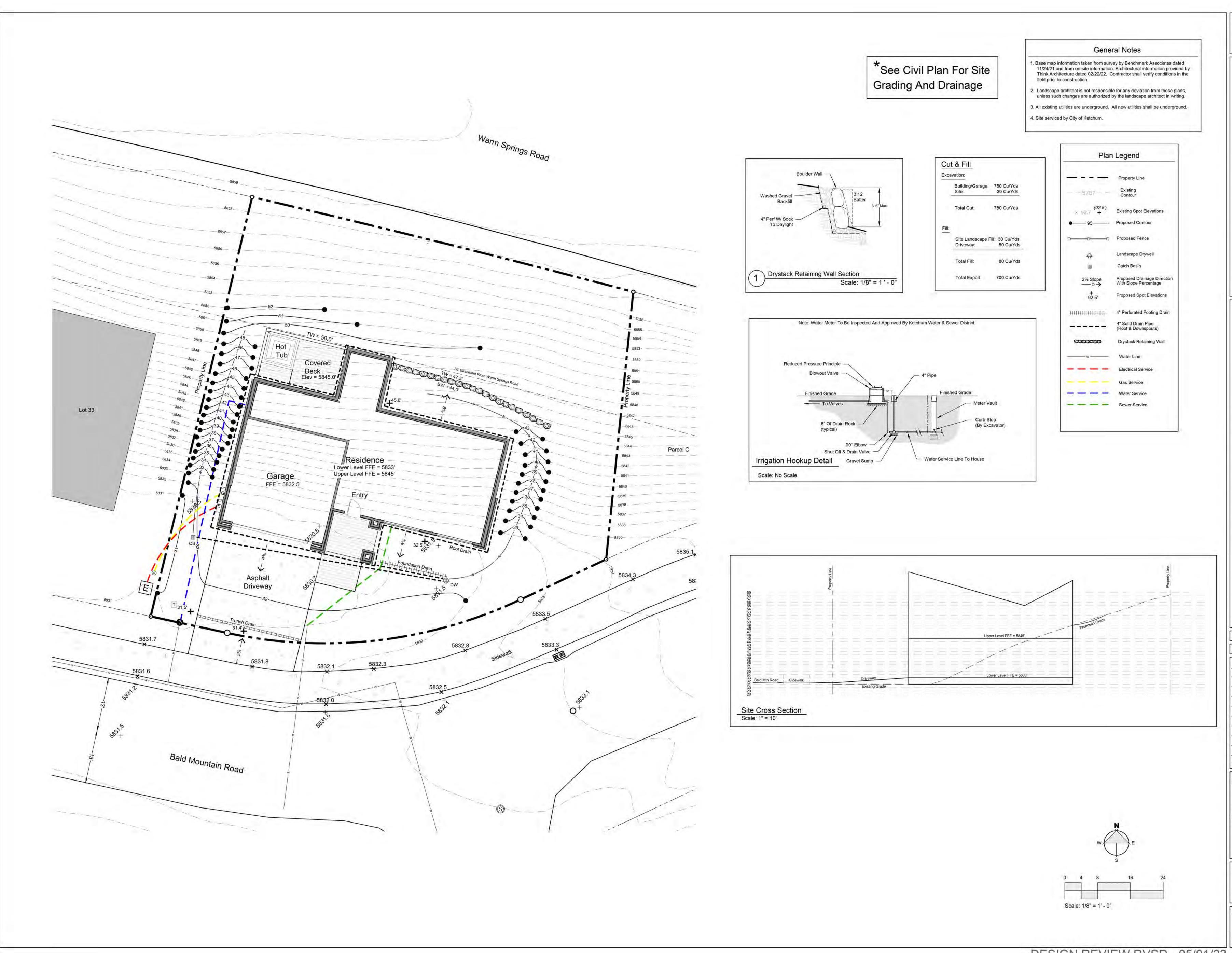


Be The Ketchum Police Department.



DESIGN REVIEW RVSD - 05/01/23





WSR Residences Lot 32

EGGERS ASSOCIATES, P.A.

[landscape architecture]

O.Box 953

T(208) 725-091

Warm Oprings Kanch Kesidenc Block 1, Lot 32 Ketchum, Idaho

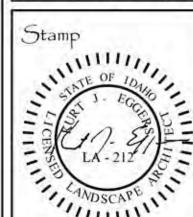
Job No: 22.25 Scale: 1/8"=1"-0"

Issue/Revisions: Date:

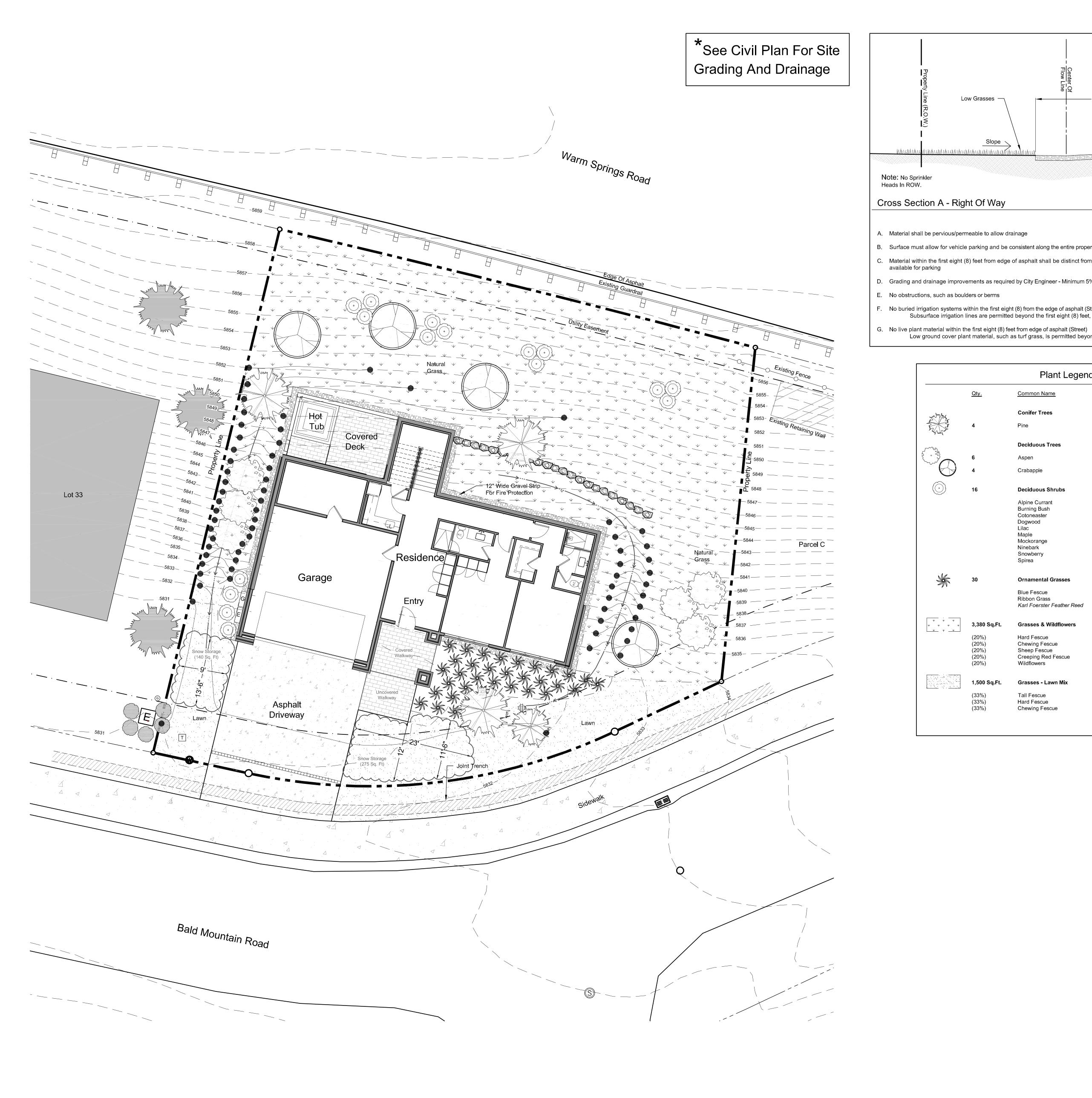
Design Review 03/17/23

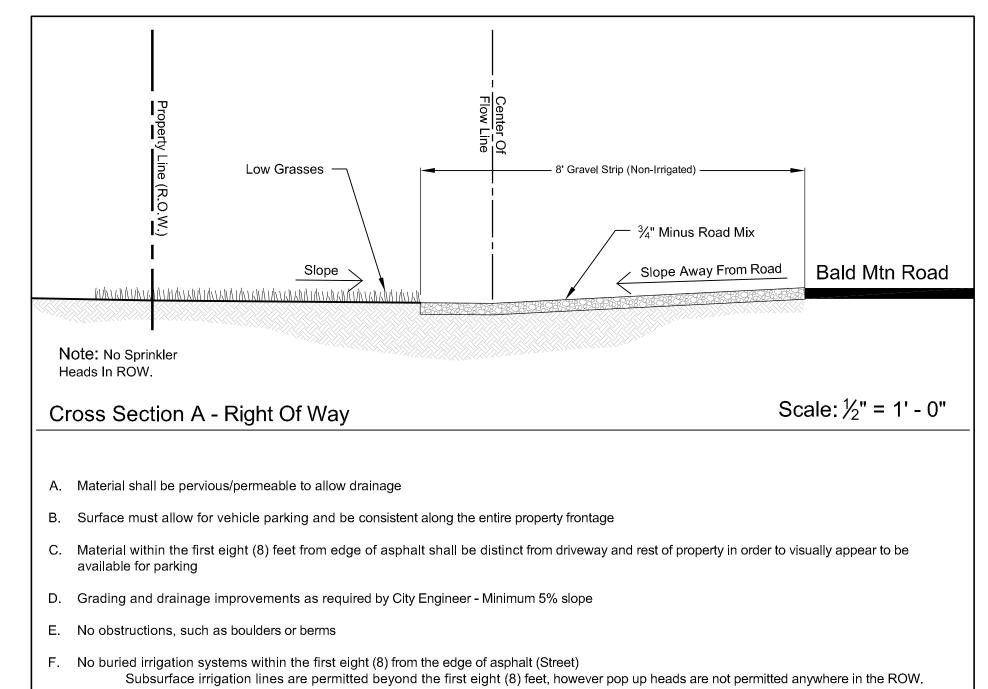
DR RVSD 05/01/25

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Sheet Title: Grading Plan



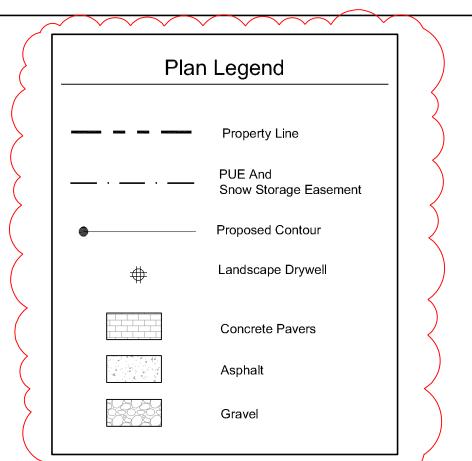


Low ground cover plant material, such as turf grass, is permitted beyond the first eight (8) feet. Drought-tolerant species is preferred.

		Plant Legen	d	
	Qty.	Common Name	Botanical Name	<u>Size</u>
huy hora		Conifer Trees		12' -16'
Took of the same o	4	Pine	Pinus spp.	
•		Deciduous Trees		12' -16'
	6	Aspen	Populus tremuloides	
	4	Crabapple	Malas spp.	
)	16	Deciduous Shrubs		5 gal.
		Alpine Currant Burning Bush Cotoneaster Dogwood Lilac Maple Mockorange Ninebark Snowberry Spirea	Ribes alpinum Euonymus alatus Cotoneaster spp. Cornus spp. Syringa spp. Acer spp. Philadelphus spp. Physocarpus spp. Symphoricarpos spp. Spirea spp.	
	30	Ornamental Grasses		Flats
<i>,</i> ,		Blue Fescue Ribbon Grass <i>Karl Foerster Feather Reed</i>	Festuca ovina gluca Phalaris arundinacea 'Picata' C arundinacea 'Karl Foerster'	
· • • • • • • • • • • • • • • • • • • •	3,380 Sq.Ft.	Grasses & Wildflowers		Sod or Seed
	(20%) (20%) (20%) (20%) (20%)	Hard Fescue Chewing Fescue Sheep Fescue Creeping Red Fescue Wildflowers	Festuca trachyphylla Festuca rubra var. commutata Festuca ovina Festuca rubra Various	
	1,500 Sq.Ft.	Grasses - Lawn Mix		Sod or Seed
	(33%) (33%) (33%)	Tall Fescue Hard Fescue Chewing Fescue	Festuca arundinacea Festuca trachyphylla Festuca rubra var. commutata	

### General Notes

- Base map information taken from survey by Benchmark Associates dated 11/24/21 and from on-site information. Architectural information provided by Think Architecture dated 02/22/22. Contractor shall verify conditions in the field prior to construction.
- 2. Landscape architect is not responsible for any deviation from these plans, unless such changes are authorized by the landscape architect in writing.
- 3. All existing utilities are underground. All new utilities shall be underground. 4. Site serviced by City of Ketchum.



Irrigation Calculation				
(Lot = ± .22 Acres)				
Description	Square Footage			
Lawn	4,480 sq.ft.			
Planter Beds	50 sq.ft.			
Total Irrigated Area	4,530 sq.ft.			
	+/11 Acres			

Snow Storage					
Driveway Area: 1000 sq ft					
Uncovered Walkway Area:	80 sq ft				
	x .30%				
Required Area:	324 sq ft				
Snow Storage Provided:	415 sq ft				

# Per Development Agreement:

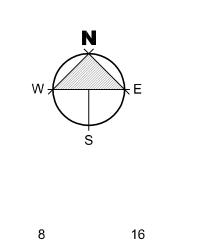
- 1) Landscaping Shall Be Drought Tolerant
- 2) Irrigation System Shall Be Equipped With Shut Off Valve Not Impacting Water Service To Residence
- 3) Irrigation System Shall Be Water Efficient In Ground Components, Controller With Rain/Freeze Sensor.
- 4) Isolate Zones Per Plant Type And Exposure.

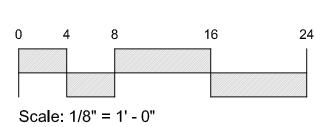
# Landscape Notes:

1) The Area 12" Horizontal From The Base Of A Wall Shall Be Finished In A Way To Prevent Any Vegetation Growing, And For Vegetative Debris To Be Easily Removed.

2) Any Trees With Crowns Closer Than 30 Feet To Any Structure Shall Be Limbed Up A Minimum Of 6' From Ground Level.

3) Any Tree Crowns Shall Be Pruned To Have A Minimum 10' Horizontal Clearance From Any Structure.





WSR Residences ot 32

Ranch Res 1, Lot 32 num, Idaho

Job No: 22.25 Scale: 1/8"=1'-0" Issue/Revisions: Date: Design Review 03/17/23 DR RVSD 05/01/23 DR RVSD 06/23/23

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Sheet Title: Landscape Plan

Sheet No:

### SITE PLAN GENERAL NOTES

- 1. CONTRACTOR TO VERIFY ALL EXISTING UTILITES AND LOCATIONS. PROTECT AS REQUIRED
- 2. CONTRACTOR TO PROTECT EXISTING TREES TO BE PRESERVED
- 3. UTILITY TRENCHING TO BE CONDUCTED IN A WAY TO NOT DISTURB EXISTING TREES.
- 4. ANY TREES LOCATED WITHIN 10'-0" HORIZONTAL OF THE STRUCTURE MUST BE MIN. 10'-0" HIGHER THAN THE ADJACENT STRUCTURE OR WILL NEED TO BE REMOVED IN ACCORDANCE TO THE FIRE CODE AS DEFENSIBLE SPACE. 5. ALL DEAD WOOD AND CUMBUSTIBLE MATERIALS WITHIN 30'-0" OF THE STRUCTURE TO BE REMOVED BY CONTRACTORE AS PER THE FIRE CIDE DEFENSIBLE SPACES.
- 6. INSTALL EROSION CONTROL MAT ON ALL SLOPES 3:1 AND GREATER.

LEVEL 1 100'-0" = 5,833.00 USGS LEVEL 2 112'-0" = 5,845.00 USGS

VERIFY FINISHED FLOOR HEIGHT WITH FINAL CIVIL ENGINEER'S DRAWINGS.

### SITE PLAN KEY NOTES

AREA = .22 ACRES OR 9,552.41 SQ. FT. **HEIGHT LIMIT: 35' MAX** 

AREA = 4,074 SQ.FT.

PROPOSED BUILDING FOOTPRINT: AREA = 2,813.67 SQ .FT.- EQUALS 29.45 %

LOT COVERAGE ALLOWED: 35%, 3,343 SQ. FT.

RECESSED LIGHT LOCATIONS

WALL SCONCE LOCATIONS

SITE PLAN

1/8" = 1'-0"

- . ALL CONSTRUCTION TO BE DONE ACCORDING TO TOWN STANDARDS AND SPECIFICATIONS. . CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND LOCATION OF EXISTING UTILITIES PRIOR CONSTRUCTION. 3. CONTRACTOR TO VERIFY PROPER DRAINAGE AWAY FROM HOUSE.
- 6. CONTRACTOR TO VERIFY EXISTING GRADES/TOPOGRAPHY PRIOR TO EXCAVATION AND/OR CONSTRUCTION. VERIFY DRIVEWAY DOES NOT EXCEED 10% GRADE. 7. EXISTING TOPOGRAPHY SHOWN IS BASED ON ROAD DESIGN GRADES & SITE OBSERVATIONS. CONTRACTORS/OWNER 8. HEIGHT LIMIT OF 35'-0" OVER EXISTING GRADE. 5'-0" ALLOWANCE FOR CHIMNEYS AND MECHANICAL.

SITE PLAN

SHEET NUMBER:

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1 04-27-2023 PER CITY

2023.06.30

PROJECT NC22023.32

DATE:

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RESIDENCE

**WARM SPRINGS** 

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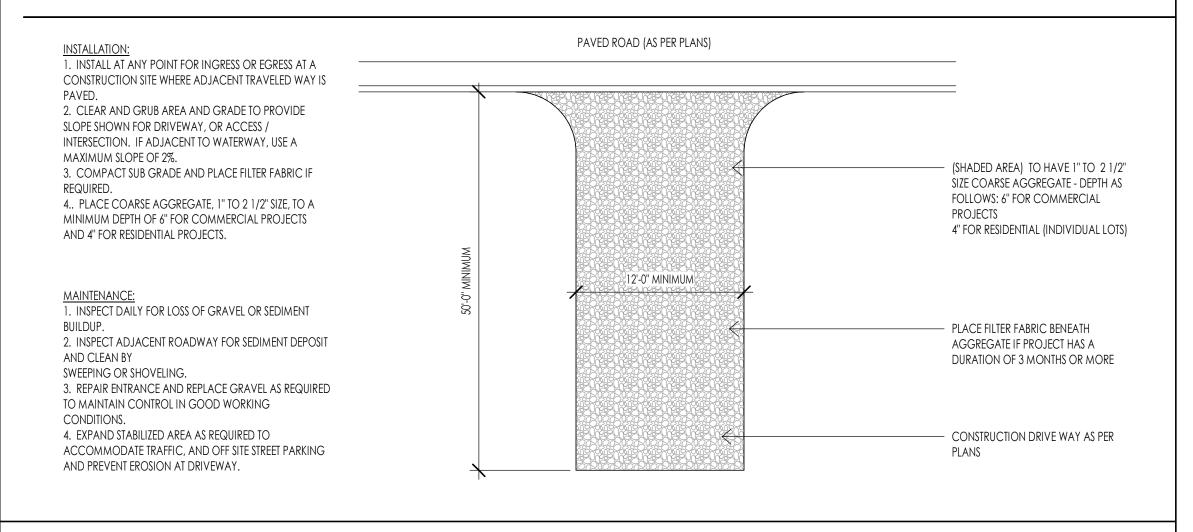
2 06-14-2023 PER CITY

SHEET TITLE:

# SILT FENCE DETAIL MATERIALS 4. WEDGE LOOSE STRAW BETWEEN BALES. BACK FILL AND COMPACT THE EXCAVATED SOIL STRAW BALES BOUND WITH WIRE OR TWINE. AGAINST THE UPHILL SIDE OF THE BARRIER. WOOD OR STEEL STAKES 4' LONG MIN. SIDE OF THE BARRIER. 2 STAKES PER BALE). WHEN INSTALLING BALES ON PAVEMENT, PILE GRAVEL OR ROCK BEHIND THE BALES TO HOLD THE IN PLACE. WIDTH OF STRAW BALE 1. DIG A 6"X 2" TRENCH. ALIGN TRENCH ALONG CONTOUR BUT CURVED SLIGHTLY UPHILL SO RUNOFF CANNOT ESCAPE AROUND THE END BALES. (SEE (2.) BELOW) Ditch sealed with sandbags 2. PLACE BALES IN TRENCH WITH ENDS TIGHTLY ABUTTED. INCORRECT INSPECT PERIODICALLY AND AFTER EACH STORM. REPLACE 3. ANCHOR EACH BALE WITH 2 STAKES HAMMERED 1 1/2' TO 2' INTO DAMAGED BALES; RE-ANCHOR DISPLACED ONES. CLEAN OUT SEDIMENT BEFORE IT REACHES THE TOP OF THE BALES. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE END BALES. DEPOSIT THE REMOVED SEDIMENT WHERE IT WILL NOT ENTER A (SEE (2.) BELOW) DRAINAGE WAY. - STRAW BALES STAKED WITH 2 STAKES PER BALE - DRAIN INLET BOX WITH GRATE

# STRAW BALE EROSION CONTROL

CONSTRUCTION ENTRANCE



# **EROSION CONTROL NOTES**

1 EROSION CONTROL - SPDES PLAN SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE STATE OUTLINING HOW EROSION AND SILTATION WILL BE CONTROLLED. A COPY OF THE PLAN MUST BE ON SITE AT ALL TIMES.

2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE PLAN AND INSTALLING AND MAINTAINING EROSION CONTROL FACILITIES WITH EACH PHASE OF WORK. SHOULD SILT LEAVE THE SITE OR EROSION OCCUR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE CORRECTIVE ACTION AND REPAIR ANY DAMAGE CAUSED BY THE SILT OR EROSION IMMEDIATELY.

3 ALL COSTS ASSOCIATED WITH THE PREPARATION, MODIFICATION AND APPROVAL OF THE PLAN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4 CONTROLLING SEDIMENT TRANSPORT AND PREVENTING AND/OR CORRECTING PROBLEMS ASSOCIATED WITH EROSION AND RUNOFF PROCESSES WHICH COULD OCCUR BOTH DURING AND AFTER PROJECT CONSTRUCTION WILL BE CLOSELY MONITORED. PERIODIC MAINTENANCE AND INSPECTION OF SEDIMENT CONTROL DEVICES WILL BE SCHEDULED THROUGH THE SCHEDULED COMPLETION OF WORK.

5 PARTICULAR ATTENTION SHALL BE GIVEN TO EXISTING DRAINAGE PATTERNS WHICH RUN THROUGH DISTURBED AREAS AND OVER EXTREME SLOPES. THESE PATTERNS WILL BE IDENTIFIED TO ISOLATE PROBLEM AREAS WHERE WATER WILL CONCENTRATE. PROVISIONS SHALL BE MADE TO CHANNEL RUNOFF AWAY FROM NEW OR EXISTING IMPROVEMENTS TO PREVENT UNDERMINING AND GENERAL SITE EROSION. THESE PROVISIONS SHALL BE STABILIZED AND SHALL REMAIN IN PLACE UNTIL THE PERMANENT STORM DRAINAGE FACILITIES ARE INSTALLED AND FUNCTIONAL.

6 EXCAVATION AND EMBANKMENT OPERATIONS SHALL PROCEED IN SUCH A MANNER SO THAT FINISHING

SLOPES, INCLUDING REVEGETATION, SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER ROUGH GRADING. ALL SLOPES 2:1 OR FLATTER SHALL BE SCARIFIED WITH HEAVY EQUIPMENT, LEAVING TRACKS PERPENDICULAR TO THE SLOPE.
7 CUT AND FILL SLOPES SHALL BE 2:1 MAXIMUM UNLESS ROCK IS ENCOUNTERED. CUT SLOPES IN ROCK MAY BE STEEPENED, DEPENDING UPON GEOTECHNICAL CONSIDERATIONS. THE TOPS OF ALL CUT SLOPES IN SOIL

8 THE OVERALL SHAPE, HEIGHT AND GRADE OF ANY CUT AND/OR FILL SLOPE SHALL BE DEVELOPED IN CONCERT WITH THE EXISTING NATURAL CONTOURS, SCALE, AND VEGETATION OF NATURAL TERRAIN.

ROUNDING SHALL OCCUR AS THE SLOPE IS BEING BROUGHT DOWN.

SHALL BE ROUNDED FOR A HORIZONTAL DISTANCE OF THREE FEET BEYOND THE CATCH POINT. SLOPE

9 DISTURBED AREAS, BOTH ON AND OFF-SITE SHALL BE REVEGETATED. THESE AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL UNSURFACED AREAS WITHIN THE FLAGGED LIMITS OF DISTURBANCE STAGING AND STORAGE AREAS, MATERIAL WASTE AREAS, UNDERGROUND UTILITY CONSTRUCTION AREAS, BENCHED AREAS INCLUDING RETAINING WALL BENCHES, AND TEMPORARY OR EXISTING ACCESS ROADS USED FOR CONSTRUCTION ACTIVITIES. ROCK CUTS STEEPER THAN 1:1 WILL NOT BE REVEGETATED.

10 CONTROLLED OUTLETS SHALL DIRECT COLLECTED RUNOFF THROUGH SILT FENCES OR STRAW BALES.

11 SEED SHALL BE APPLIED AT A RATE SO THAT GERMINATION AND SUBSEQUENT COVERAGE REACHES 80 PERCENT IN A REPRESENTATIVE 10'X10' AREA. IF COVERAGE DOES NOT REACH 80 PERCENT, RESEEDING MUST OCCUR, BEFORE REVEGETATION.

12 ALL DITCHES AND SWALES BETWEEN 5PERCENT AND 8PERCENT SHALL BE ARMORED WITH A STRAW TYPE EROSION CONTROL/REVEGETATION STABILIZATION MAT TO PROMOTED REVEGETATION.

13 RIP RAP OF APPROPRIATE SIZE WILL BE CONSTRUCTED INTO ROADSIDE RUNOFF SWALES EXCEEDING 8 PERCENT.

14 RIP RAP SHALL BE LOCATED FOR WATER DISPERSAL AT CULVERT OUTLETS.

15 THE TIMING FOR STABILIZATION PRACTICES MUST READ PER SECTION 3B(4) OF APPENDIX A OF ORDINANCE 381, (DEALS WITH TEMPORARY SEEDING, MULCHING, PERMANENT SEEDING, ETC. WITHIN 5 DAYS OF OPERATIONS TEMPORARILY OR PERMANENTLY CEASING OPERATIONS ON ANY AREA OF THE PROJECT.)

16 SLOPES OVER 3:1 REQUIRE THE PLACEMENT OF EROSION CONTROL/REVEGITATION MATTING. SLOPES LESS THAN 3:1 MAY BE SPRAYED WITH TACKIFIER.

17 PROVIDE PERMANENT RE-SEEDING OF NON-IRRIGATED AREAS ON OR AFTER OCTOBER 15, BUT BEFORE SNOW ACCUMULATES WHEN THE PROBABILITY OF PREMATURE GERMINATION IS MINIMAL.

18 STABILIZED CONSTRUCTION ENTRANCES MUST BE UTILIZED IF THE EXISTING PAVEMENT IS REMOVED DURING THE SITE GRADING WHERE CONSTRUCTION TRAFFIC ACCESSES PUBLIC AND PRIVATE ROADWAYS.

PERCENT OF MIX
25PERCENT

15PERCENT

15PERCENT

10PERCENT

8PERCENT

**7PERCENT** 

100PERCENT

19 PROTECT ALL EXISTING STORM DRAIN BOX INLETS.

20 SEED MIX AND RATE OF APPLICATION SHALL BE AS FOLLOWS:

SEED TYPES

PERENNIAL RYEGRASS (LOLIUM PERENNE)
SLENDER WHEATGRASS (AGROPYRON TRACHYCAULUM)
20 PERCENT BLUEBUNCH WHEATGRASS (AGROPYRON SPICATUM)
WESTERN WHEATGRASS (AGROPYRON SMITHII)
SHEEP FESCUE (FESTUCA OVINA)
BLUE FLAX (LINUM LEWISSI)

CALIFORNÍA POPPY (ESCHSCHOLTZIA CALIFORNICA)

21 SEEDING RATE TO BE 35 POUNDS PER ACRE OF THE ABOVE LISTED SEED MIX.

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WARM SPRINGS RESIDENCE #32

PROJECT NC22023.32 DATE: 2023.06.30

REVISIONS:

EROSION CONTROL
DETAILS

WIT SET

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Architecture

Architecture Interior Design Landscape Architecture Land Planning Construction Management

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CONTRACTOR TO COORDINATE LOCATION OF FLOOR DRAIN - SLOPE SLAB TOWARDS DRAIN AS CAST IN PLACE FOOTINGS TO BEAR ON UNDISTURBED SOIL OR ENG COMPACTED FILL - SEE STRUCTURAL CAST IN PLACE FOUNDATION WALLS W/WATER PROOFING AS NOTED - SEE STRUCTURAL NOTES AND PROVIDE BLOCKOUT AT FOUNDATION WALL AT DOOR OPENINGS AND POUR SLAB OVER TOP OF CAST IN PLACE INTERIOR CONCRETE SLABS TO BE 4" CONCRETE SLAB REINFORCED WITH FIBER MESH CAST IN PLACE GARAGE CONCRETE SLABS TO BE 5" CONCRETE SLAB OVER 4" GRAVEL BASE AND CONTRACTOR TO COORDINATE FOOTING STEPS TO ASSURE REQUIRED FROST PROTECTION AT EACH CONTRACTOR TO COORDINATE FOUNDATION WALL STEPS WITH FINAL GRADING SPECIFIED AND SL-18 PROVIDE A U-FER GROUND. AN ELECTRODE ENCASED BY A LEAST 2" OF CONCRETE SHALL BE LOCATED NEAR THE BOTTOM OF THE CONCRETE FOUNDATION SYSTEM AND SHALL BE IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF BARE ELECTRICALLY CONDUCTIVE ROD AT LEAST 1/2 INCH IN DIAMETER OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG.

PROJECT NC22023.32

RESIDENCE

SPRINGS I

REVISIONS:

SHEET TITLE:
FOUNDATION PLAN



### FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO INTERIOR FACE-OF-STUD (F.O.S.) UNLESS NOTED OTHERWISE.

2. CEILING HEIGHTS MEASURED FROM PLYWOOD OR CONCRETE - SEE SECTIONS

3. REFER TO ENLARGED PLANS FOR ALL UNIT DIMENSIONS, WINDOW TYPES, DOORS AND WALLS. 4. REFER TO ENLARGED PLANS FOR ALL DECKS/PATIOS.

5. COORDINATE WITH ALL ENLARGED PLANS FOR ADDITIONAL INFORMATION AND DETAILS.

6. ALL TOPPING SLABS MUST BE POURED AFTER ROOF IS COMPLETE AND BUILDING IS DRIED IN.

7. SEE SHEET A002 FOR PROJECT GENERAL NOTES AND SHEET A003 FOR PROJECT KEYNOTES. REVIEW ALL NOTES PRIOR

8. COORDINATE WITH STRUCTURAL FRAMING PLANS AND SHEAR WALL PLANS FOR LOCATIONS OF COLUMNS, BEAMS, SHEAR WALLS, ETC.

9. COORDINATE WITH BUILDER/OWNER FOR ALL INTERIOR FINISHES

10. COORDINATE WITH ELECTRICAL DRAWINGS FOR ALL LIGHTING, POWER AND DATA REQUIREMENTS.

11. ALL EXTERIOR WALLS ARE ASSUMED TO BE 2X6 STUD WALLS UNLESS SHOWN/NOTED OTHERWISE.

EXTERIOR WALLS (COORDINATE INSULATION REQUIREMENTS WITH RESCHECKS).

12. ALL INTERIOR WALLS ARE ASSUMED TO BE 2X4 STUD WALLS UNLESS SHOWN/NOTED OTHERWISE. 13. ALL ROOF TRUSSES TO HAVE RAISED ENERGY HEEL CONSTRUCTION TO ALLOW FOR FULL DEPTH INSULATION OVER

# STAIR PLAN GENERAL NOTES

- STAIR CONSTRUCTION SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R311.5.
- PROJECT INTO THE REQUIRED WIDTH A DISTANCE OF 4 1/2 INCHES FROM EACH SIDE OF A STAIRWAY. IRC 311.7.1 FOR ADDITION WIDTH REQUIREMENTS OR FOR SPIRAL, CIRCULAR, WINDING STAIRS, ETC. REQUIREMENTS SEE I.R.C. SECTION R311.7.10.1
- AMENDMENT (REPLACES R311.7.5 AND ALLOWS FOR 8" MAX RISERS AND 9 INCH MIN. TREADS)
- C. LANDINGS: EVERY LANDING SHALL HAVE A WIDTH DIMENSION OF NOT LESS THAN THE STAIRWAY SERVED. EVERY LANDING SHALL HAVE A MINIMUM DEPTH DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OR TRAVEL. FOR LANDINGS WITH ADJOINING DOORS SEE I.R.C. SECTION R311.7.6 FOR SOME EXCEPTIONS/OPTIONS.
- D. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2 INCH GYPSUM BOARD. (I.R.C. R302.7)
- A. HANDRAILS SHALL BE MOUNTED A MINIMUM OF 34 INCHES AND A MAXIMUM OF 38 INCHES ABOVE THE NOSING OF THE TREAD AND SHALL BE PROVIDED ON A LEAST ONE SIDE OF STAIRWAYS. ALL REQUIRED HANDRAILS SHALL BE CONTINUOS THE FULL LENGTH OF THE STAIRS WITH FOUR OR MORE RISERS FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS. VOLUTES, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD.
- HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCHES BETWEEN
- GUARD RAILS SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R312.
- C. THE TRIANGLE OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE OF SUCH A SIZE THAT A SPHERE 6 INCHES IN

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FLOOR PLAN RETNOIES				
KEYNOTES				
FL-04	CLOSET SHELVING/ ROD - PER INTERIOR DESIGNER			
FL-06	BATHROOM SINK - VANITY PER INTERIOR DESIGNER			
FL-07	MIRROR SINK AS PER INTERIOR DESIGNER			
FL-08	LAUNDRY SINK/ FAUCET PER INTERIOR DESIGNER			
FL-09	STACKED WASHER AND DRYER. CONTRACTOR TO COORDINATE WITH MECHANICAL AND ELECTRIC			
FL-11	CABINET SYSTEM/SHELVING PER INTERIOR DESIGNER			
FL-12	PROVIDE SHOWER BENCH AS PER OWNER/ INTERIOR DESIGN			
FL-13	PROVIDE "SCHLTER" KERDI-LINE LINEAR TRENCH DRAIN AGAINST BENCH, INTERIOR DESIGNER TO PROVIDE DRAIN COVER SPEC.			
FL-14	SHOWER HEAD PER INTERIOR DESIGN			
FL-16	W.C. TO BE "KOHLER" PERSUADE CURV COMFORT			
FL-19	BUILT IN MUD/GEAR CABINETS AS PER INTERIOR DESIGNER			
FL-25	PROVIDE HOT/COLD HOOK UP			
Ft-26~	PROVIDE 50 AMP EV CONNECTION POINT			
FL-30	FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED PER 2018 IFC SECTION 906 BOTH DURING			

CONSTRUCTION AND UPON OCCUPANCY OF THE BUILDING, DURING CONSTRUCTION FIRE EXTINGUISHERS SHALL BE PLACED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION THAT IS LESS THAN 75' TRAVEL DISTANCE TO ANY COMBUSTIBLES ON SITE, 30' TO ANY HOT WORK. EXTINGUISHERS SHALL BE MOUNTED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION. UPON COMPLETION OF PROJECT EVERY SINGLE-FAMILY RESIDENCE SHALL HAVE A MINIMUM OF ONE EXTINGUISHER PER GARAGE AND ONE EXTINGUISHER PER KITCHEN AREA. AN APPROVED KEY BOX SHALL BE INSTALLED, WITH THE APPROPRIATE KEYS FOR EMERGENCY FIRE

DEPARTMENT ACCESS IN A LOCATION APPROVED BY THE FIRE DEPARTMENT. THE KEY BOX SHALL BE A KNOX BOX BRAND AND SIZED TO ACCOMMODATE KEYS TO EVERY DOOR OF THE PROJECT. LOCATION NO MORE THAN 3FT HOR. FROM MAIN DOOR AND NO MORE THAT 5.5FT VERTICAL- VERIFY LOCAL

Architecture

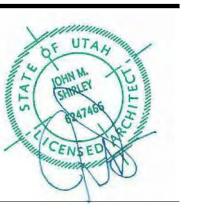
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- A. THE MINIMUM STAIRWAY WIDTH SHALL NOT BE LESS THAT 36 INCHES CLEAR WIDTH. HANDRAILS MAY
- B. THE MAXIMUM STAIR RISER HEIGHT SHALL NOT EXCEED 7-3/4 INCHES AND THE MINIMUM STAIR TREAD DEPTH SHALL BE 10 INCHES. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS. THE GREATEST RISER HEIGHT OR TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. (UTAH STATE
- E. HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (I.R.C. R311.7.2)
- HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (I.R.C.
- B. THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4 INCHES MINIMUM TO 2 5/8 INCHES MAXIMUM. OTHER HANDRAIL SHAPES THAT HAVE AN EQUIVALENT GRASPING SURFACE ARE PERMISSIBLE, SEE BUILDING CODE. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH. R311.7.8.3.
- THE WALL AND THE HANDRAIL.
- A. GUARDRAILS ARE REQUIRED AT ALL PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND SHALL BE 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 TREAD.
- B. REQUIRED GUARDS ON OPEN SIDES OF STAIRWAYS, RAISED FLOOR AREAS, BALCONIES, ETC. SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES THAT DO NOT ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.
- DIAMETER CANNOT PASS THROUGH.
- D. THE GUARDS AT SIDES OF STAIRS SHALL HAVE GUARD SUCH THAT A 4-3/8" SPHERE CANNOT PASS

**REVISIONS:** 1 04-27-2023 PER CITY

PROJECT NC22023.32

RESIDENCE

SPRINGS

2 06-14-2023 PER CITY

LEVEL 1 FLOOR PLAN

SHEET NUMBER:

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LEVEL 1 - FLOOR PLAN



### FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO INTERIOR FACE-OF-STUD (F.O.S.) UNLESS NOTED OTHERWISE.

2. CEILING HEIGHTS MEASURED FROM PLYWOOD OR CONCRETE - SEE SECTIONS

3. REFER TO ENLARGED PLANS FOR ALL UNIT DIMENSIONS, WINDOW TYPES, DOORS AND WALLS. 4. REFER TO ENLARGED PLANS FOR ALL DECKS/PATIOS.

5. COORDINATE WITH ALL ENLARGED PLANS FOR ADDITIONAL INFORMATION AND DETAILS.

6. ALL TOPPING SLABS MUST BE POURED AFTER ROOF IS COMPLETE AND BUILDING IS DRIED IN. 7. SEE SHEET A002 FOR PROJECT GENERAL NOTES AND SHEET A003 FOR PROJECT KEYNOTES. REVIEW ALL NOTES PRIOR

8. COORDINATE WITH STRUCTURAL FRAMING PLANS AND SHEAR WALL PLANS FOR LOCATIONS OF COLUMNS, BEAMS, SHEAR WALLS, ETC.

9. COORDINATE WITH BUILDER/OWNER FOR ALL INTERIOR FINISHES

10. COORDINATE WITH ELECTRICAL DRAWINGS FOR ALL LIGHTING, POWER AND DATA REQUIREMENTS.

1. ALL EXTERIOR WALLS ARE ASSUMED TO BE 2X6 STUD WALLS UNLESS SHOWN/NOTED OTHERWISE.

3. ALL ROOF TRUSSES TO HAVE RAISED ENERGY HEEL CONSTRUCTION TO ALLOW FOR FULL DEPTH INSULATION OVER EXTERIOR WALLS (COORDINATE INSULATION REQUIREMENTS WITH RESCHECKS).

2. ALL INTERIOR WALLS ARE ASSUMED TO BE 2X4 STUD WALLS UNLESS SHOWN/NOTED OTHERWISE.

## STAIR PLAN GENERAL NOTES

- STAIR CONSTRUCTION SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R311.5.
- A. THE MINIMUM STAIRWAY WIDTH SHALL NOT BE LESS THAT 36 INCHES CLEAR WIDTH. HANDRAILS MAY PROJECT INTO THE REQUIRED WIDTH A DISTANCE OF 4 1/2 INCHES FROM EACH SIDE OF A STAIRWAY. IRC 311.7.1 FOR ADDITION WIDTH REQUIREMENTS OR FOR SPIRAL, CIRCULAR, WINDING STAIRS, ETC. REQUIREMENTS SEE I.R.C. SECTION R311.7.10.1
- D. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2 INCH GYPSUM BOARD. (I.R.C. R302.7)
- E. HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (I.R.C. R311.7.2)
- HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE
- A. HANDRAILS SHALL BE MOUNTED A MINIMUM OF 34 INCHES AND A MAXIMUM OF 38 INCHES ABOVE THE NOSING OF THE TREAD AND SHALL BE PROVIDED ON A LEAST ONE SIDE OF STAIRWAYS. ALL REQUIRED HANDRAILS SHALL BE CONTINUOS THE FULL LENGTH OF THE STAIRS WITH FOUR OR MORE RISERS FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS. VOLUTES, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD.
- THE WALL AND THE HANDRAIL.
- GUARD RAILS SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R312.
- A. GUARDRAILS ARE REQUIRED AT ALL PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND SHALL BE 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 TREAD.
- OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE OF SUCH A SIZE THAT A SPHERE 6 INCHES IN DIAMETER CANNOT PASS THROUGH.

# FLOOR PLAN KEYNOTES

	KEYNOTES			
	FL-02	OVERHEAD CABINETS PROJECTION		
	FL-04	CLOSET SHELVING/ ROD - PER INTERIOR DESIGNER		
	FL-06	BATHROOM SINK - VANITY PER INTERIOR DESIGNER		
	FL-07	MIRROR SINK AS PER INTERIOR DESIGNER		
	FL-10	36" COUNTERTOP PER INTERIOR DESIGNER		
	FL-11	CABINET SYSTEM/SHELVING PER INTERIOR DESIGNER		
	FL-12	PROVIDE SHOWER BENCH AS PER OWNER/ INTERIOR DESIGN		
	FL-13	PROVIDE "SCHLTER" KERDI-LINE LINEAR TRENCH DRAIN AGAINST BENCH, INTERIOR DESIGNER TO PROVIDE DRAIN COVER SPEC.		
	FL-14	SHOWER HEAD PER INTERIOR DESIGN		
	FL-16	W.C. TO BE "KOHLER" PERSUADE CURV COMFORT		
	FL-17	TUB/ SOAKER TUB AS PER INTERIOR DESIGNER		
	FL-18	KITCHEN SINK W/DISPOSAL - COUNTERTOP - CABINETS PER INTERIOR DESIGN		
	FL-21	WIDE FLANGE COLUMNS AS PER STRUCTURAL		
	FL-27	PROVIDE COUNTER BUTTON SWITCH FOR DISPOSAL UNIT		
	FL-30	FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED PER 2018 IFC SECTION 906 BOTH DURING CONSTRUCTION AND UPON OCCUPANCY OF THE BUILDING. DURING CONSTRUCTION FIRE EXTINGUISHERS SHALL BE PLACED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION THAT IS LESS THAN 75' TRAVEL DISTANCE TO ANY COMBUSTIBLES ON SITE, 30' TO ANY HOT WORK. EXTINGUISHERS SHALL BE MOUNTED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION.		

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- B. THE MAXIMUM STAIR RISER HEIGHT SHALL NOT EXCEED 7-3/4 INCHES AND THE MINIMUM STAIR TREAD DEPTH SHALL BE 10 INCHES. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS. THE GREATEST RISER HEIGHT OR TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. (UTAH STATE AMENDMENT (REPLACES R311.7.5 AND ALLOWS FOR 8" MAX RISERS AND 9 INCH MIN. TREADS)
- C. LANDINGS: EVERY LANDING SHALL HAVE A WIDTH DIMENSION OF NOT LESS THAN THE STAIRWAY SERVED. EVERY LANDING SHALL HAVE A MINIMUM DEPTH DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OR TRAVEL. FOR LANDINGS WITH ADJOINING DOORS SEE I.R.C. SECTION R311.7.6 FOR SOME EXCEPTIONS/OPTIONS.

- STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (I.R.C.
- B. THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4 INCHES MINIMUM TO 2 5/8 INCHES MAXIMUM. OTHER HANDRAIL SHAPES THAT HAVE AN EQUIVALENT GRASPING SURFACE ARE PERMISSIBLE, SEE BUILDING CODE. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH. R311.7.8.3.
- C. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCHES BETWEEN
- B. REQUIRED GUARDS ON OPEN SIDES OF STAIRWAYS, RAISED FLOOR AREAS, BALCONIES, ETC. SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES THAT DO NOT ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.
- C. THE TRIANGLE OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE
- D. THE GUARDS AT SIDES OF STAIRS SHALL HAVE GUARD SUCH THAT A 4-3/8" SPHERE CANNOT PASS THOUGH IT.

KEYNOTES			
FL-02	OVERHEAD CABINETS PROJECTION		
FL-04	CLOSET SHELVING/ ROD - PER INTERIOR DESIGNER		
FL-06	BATHROOM SINK - VANITY PER INTERIOR DESIGNER		
FL-07	MIRROR SINK AS PER INTERIOR DESIGNER		
FL-10	36" COUNTERTOP PER INTERIOR DESIGNER		
FL-11	CABINET SYSTEM/SHELVING PER INTERIOR DESIGNER		
FL-12	PROVIDE SHOWER BENCH AS PER OWNER/ INTERIOR DESIGN		
FL-13	PROVIDE "SCHLTER" KERDI-LINE LINEAR TRENCH DRAIN AGAINST BENCH, INTERIOR DESIGNER TO PROVIDE DRAIN COVER SPEC.		
FL-14	SHOWER HEAD PER INTERIOR DESIGN		
FL-16	W.C. TO BE "KOHLER" PERSUADE CURV COMFORT		
FL-17	TUB/ SOAKER TUB AS PER INTERIOR DESIGNER		
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FL-21	WIDE FLANGE COLUMNS AS PER STRUCTURAL		
FL-27	PROVIDE COUNTER BUTTON SWITCH FOR DISPOSAL UNITY		
FL-30	FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED PER 2018 IFC SECTION 906 BOTH DURING CONSTRUCTION AND UPON OCCUPANCY OF THE BUILDING. DURING CONSTRUCTION FIRE EXTINGUISHERS SHALL BE PLACED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION THAT IS LESS THAN 75' TRAVEL DISTANCE TO ANY COMBUSTIBLES ON SITE, 30' TO ANY HOT WORK. EXTINGUISHERS SHALL BE MOUNTED IN A CONSPICUOUS, EASY TO ACCESS, UNOBSTRUCTED LOCATION. UPON COMPLETION OF PROJECT EVERY SINGLE-FAMILY RESIDENCE SHALL HAVE A MINIMUM OF ONE EXTINGUISHER PER GARAGE AND ONE EXTINGUISHER PER KITCHEN AREA.		

**REVISIONS:** 1 04-27-2023 PER CITY

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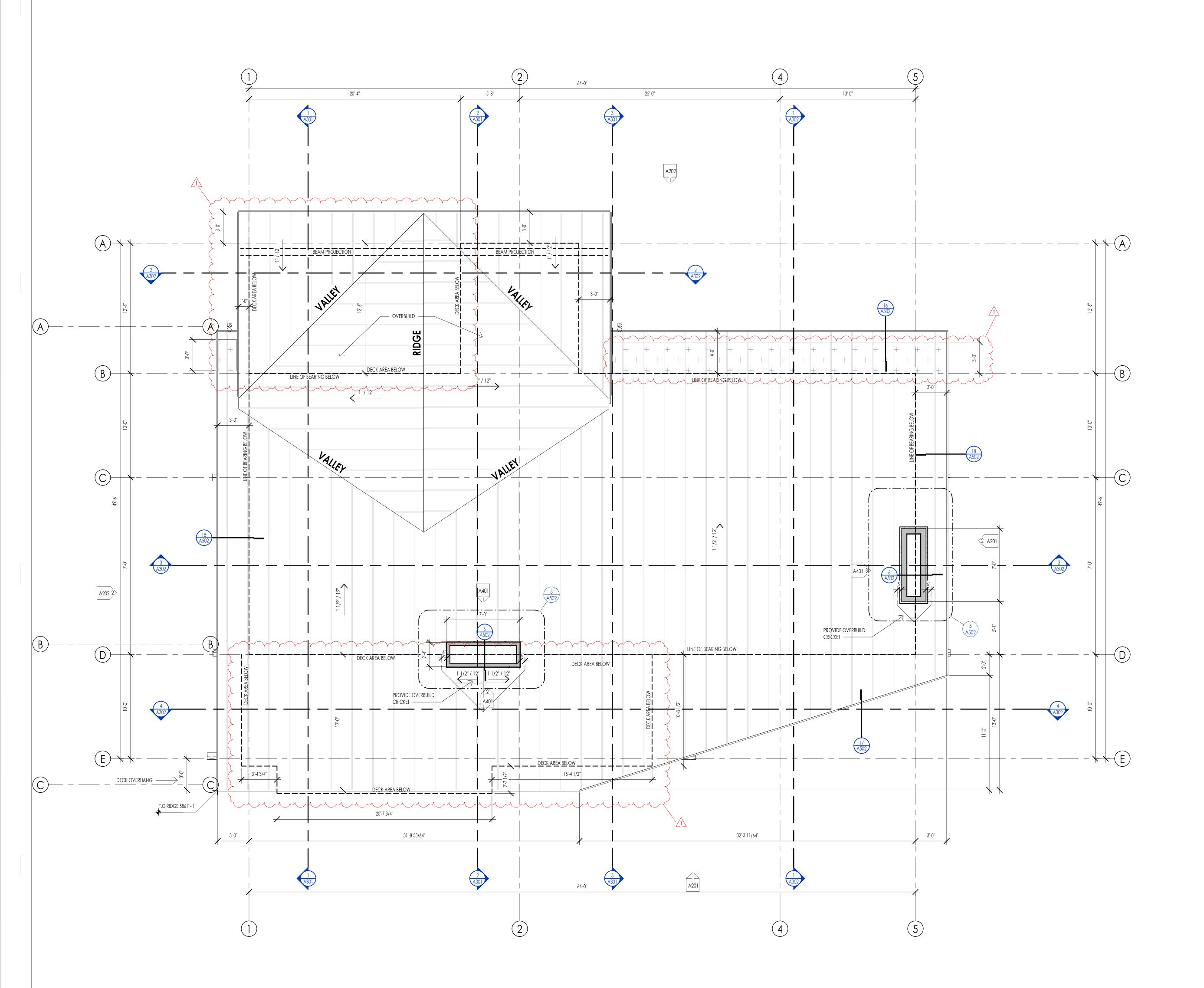
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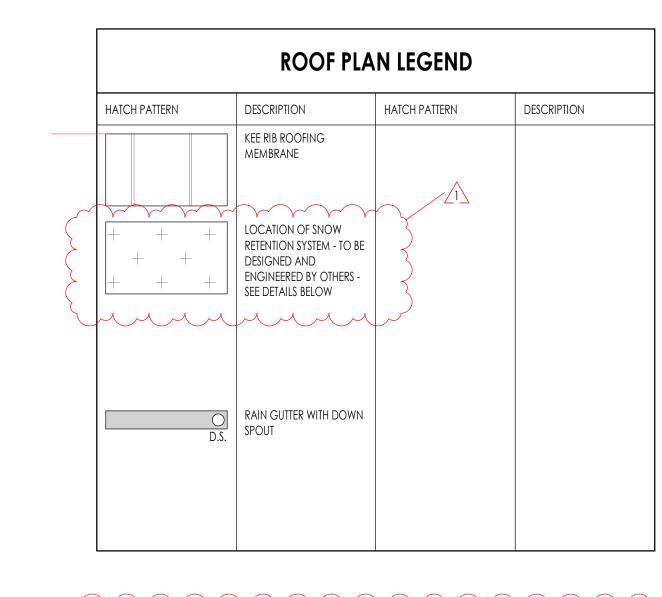
SPRINGS

COMMENTS

LEVEL 2 FLOOR PLAN

LEVEL 2 - FLOOR PLAN







# ROOF PLAN GENERAL NOTES

1. SEE SHEET G002 FOR PROJECT GENERAL NOTES. REVIEW ALL NOTES PRIOR TO CONSTRUCTION.

2. FLASH ALL ROOF PENETRATIONS WHETHER SHOWN OR NOT.

4. PROVIDE HEAT TRACE IN ALL RAIN GUTTERS, DOWN SPOUTS AND RAIN CHAINS.

3. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL ROOF PENETRATIONS.

5. ROOFING CONTRACTOR SHALL REVIEW ALL SUBSTRATES PRIOR TO BEGINNING WORK.

6. ALL ROOFING SHALL BE REVIEWED PRIOR TO INSTALLATION.

7. CONTRACTOR IS RESPONSIBLE TO ASSUME THAT NO ROOF SLOPES CREATE DEAD SPOTS OR LOW SPOTS THAT WILL

8. ALL ROOF TRUSSES TO HAVE RAISED ENERGY HEEL CONSTRUCTION TO ALLOW FOR FULL DEPTH INSULATION OVER EXTERIOR WALLS (COORDINATE INSULATION REQUIREMENTS WITH RESCHECKS).

9. DIMENSIONS SHOWN ON THE ROOF PLAN ARE FROM THE EXTERIOR SIDE OF THE STUD FRAMING BELOW.

# **ROOF PLAN KEYNOTES**

PROJECT NC22023.32 2023.06.30

**REVISIONS:** 

ROOF PLAN
1/4" = 1'-0"

Architecture Architecture

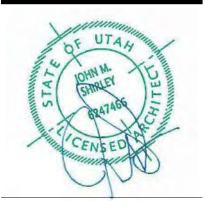
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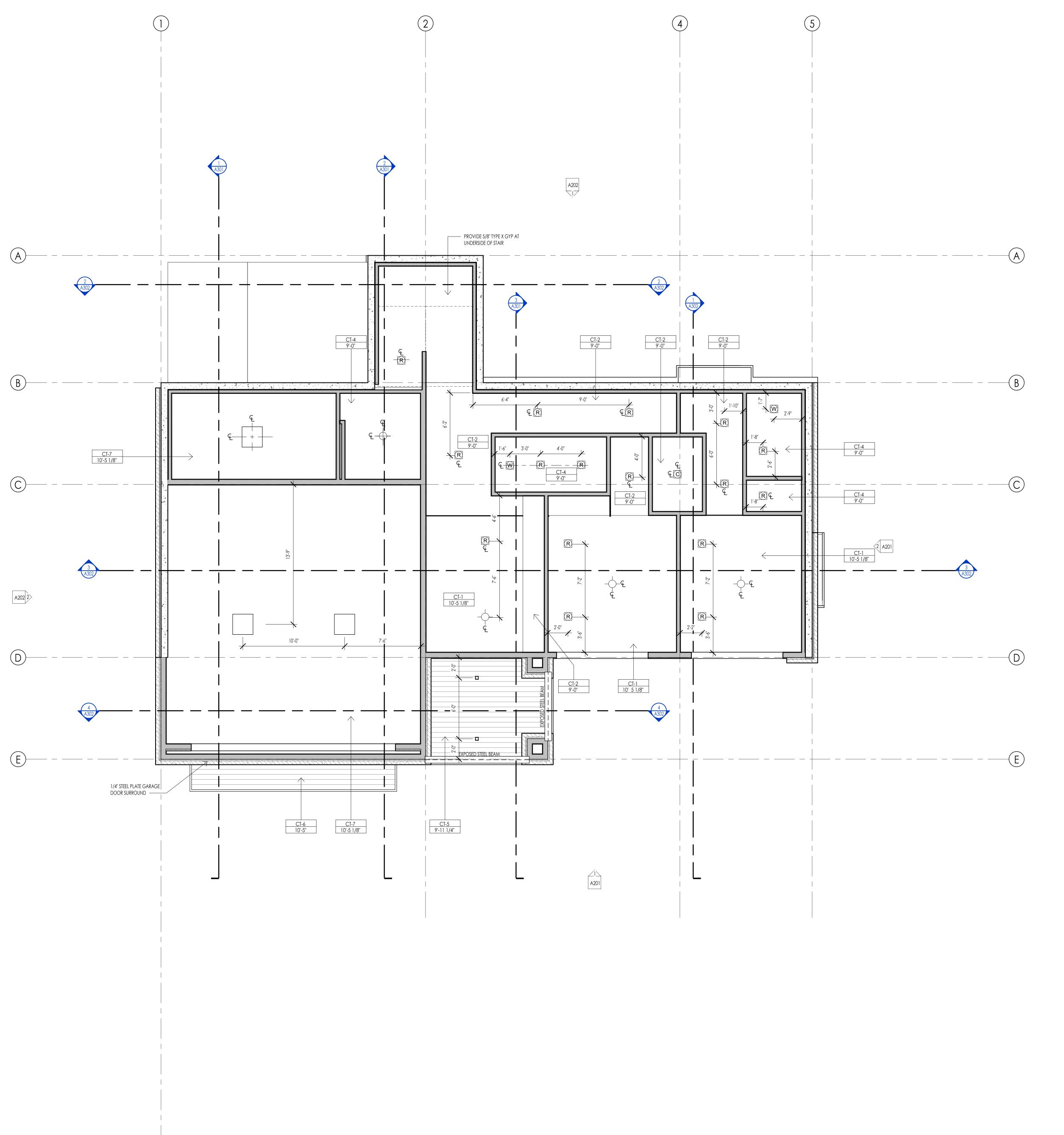
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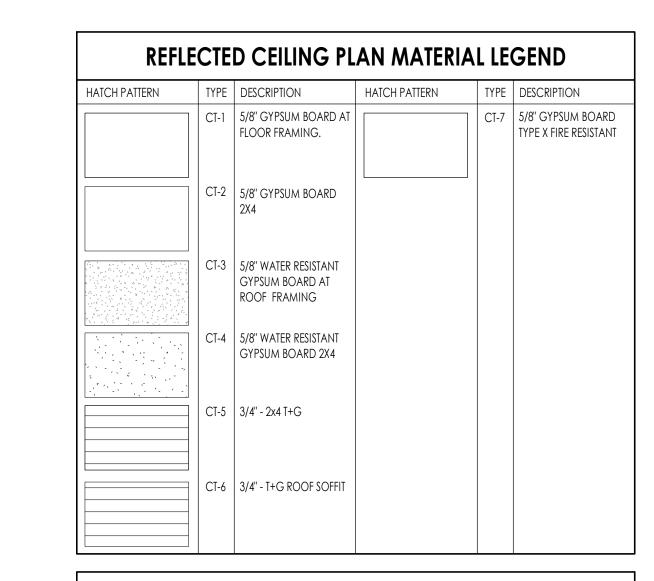


SPRINGS RESIDENC

1 04-27-2023 PER CITY

SHEET TITLE:
ROOF PLAN





## REFLECTED CEILING PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO INTERIOR FACE-OF-STUD (F.O.S.) UNLESS NOTED OTHERWISE. 2. ALL CEILING HEIGHTS MEASURED FROM TOP OF PLYWOOD OR CONCRETE SLAB TO BOTTOM OF CEILING FRAMING, U.N.O. - SEE SECTIONS.

3. REFER TO ENLARGED PLANS FOR ALL UNIT DIMENSIONS, WINDOW TYPES, DOORS AND WALLS.

4. REFER TO ENLARGED PLANS FOR ALL DECKS.

5. COORDINATE WITH ALL ENLARGED PLANS FOR ADDITIONAL INFORMATION AND DETAILS. 6. SEE SHEET G002 FOR PROJECT SPECIFICATION LIST. REVIEW ALL NOTES PRIOR TO CONSTRUCTION.

7. COORDINATE WITH ELECTRCIAL DRAWINGS FOR ALL LIGHTING, POWER AND DATA REQUIREMENTS.

8. ALL INTERIOR FINISHES ARE NOTED FOR CONCEPT ONLY. SEE INTERIOR DRAWINGS FOR MATERIAL SPECIFICATIONS, COLORS, PATTERNS, AND OTHER REQUIREMENTS PRIOR TO INSTALLATION.

CEILING TAG SYMBOL DESCRIPTION C1 1' - 0" CEILING TYPE

# REFLECTED CEILING PLAN KEYNOTES

KEYNOTES

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WARM SPRINGS RESIDENCE #32

PROJECT NC22023.32 DATE: 2023.06.30

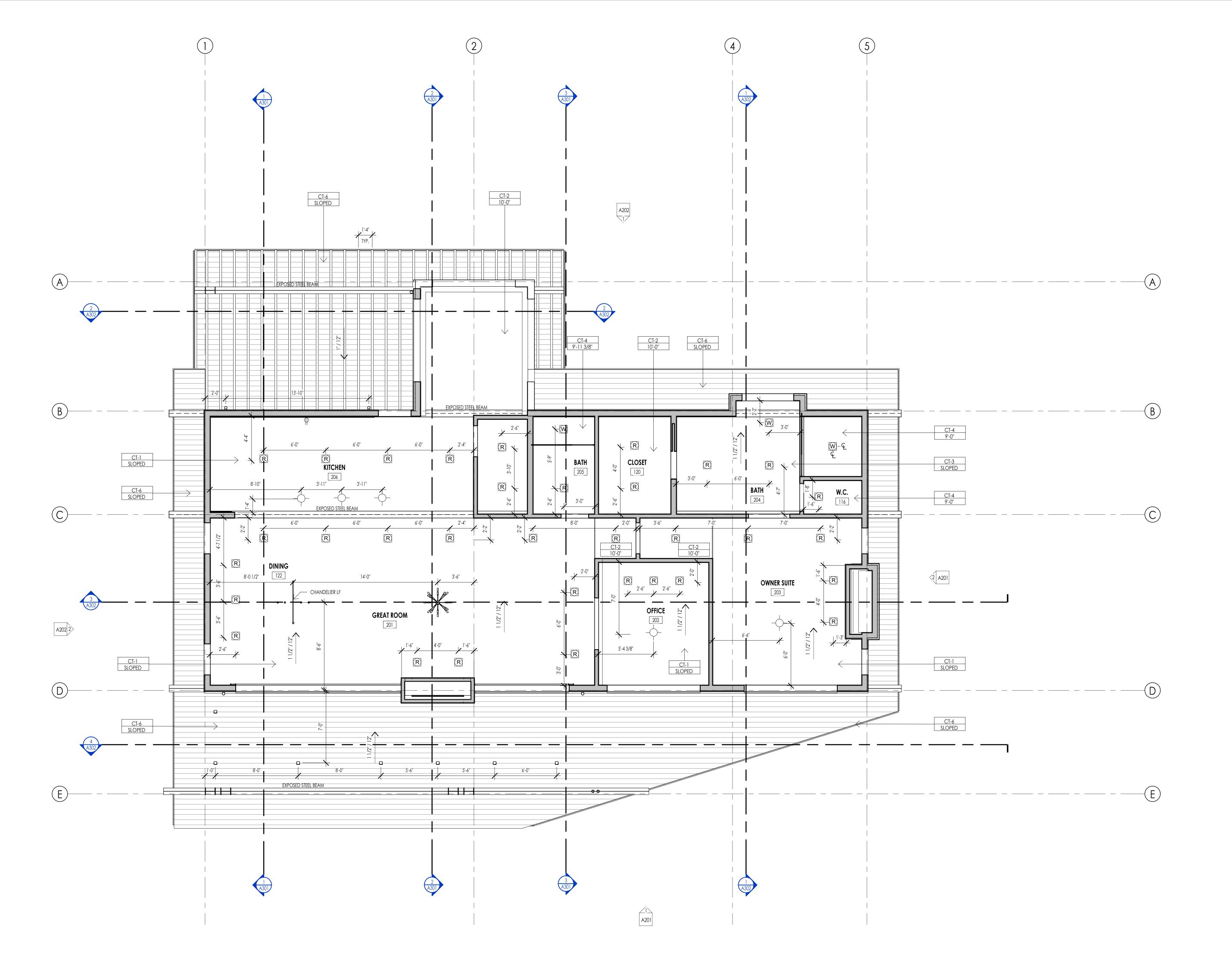
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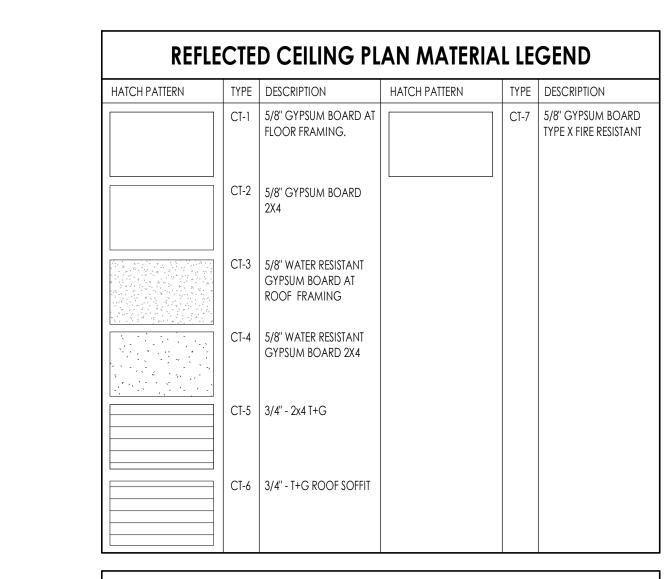
SHEET TITLE:

LEVEL 1 CEILING PLAN

LEVEL 1 - REFLECTED CEILING PLAN

1/4" = 1'-0"





## REFLECTED CEILING PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO INTERIOR FACE-OF-STUD (F.O.S.) UNLESS NOTED OTHERWISE. 2. ALL CEILING HEIGHTS MEASURED FROM TOP OF PLYWOOD OR CONCRETE SLAB TO BOTTOM OF CEILING FRAMING, U.N.O. - SEE SECTIONS.

3. REFER TO ENLARGED PLANS FOR ALL UNIT DIMENSIONS, WINDOW TYPES, DOORS AND WALLS.

4. REFER TO ENLARGED PLANS FOR ALL DECKS.

5. COORDINATE WITH ALL ENLARGED PLANS FOR ADDITIONAL INFORMATION AND DETAILS.

6. SEE SHEET G002 FOR PROJECT SPECIFICATION LIST. REVIEW ALL NOTES PRIOR TO CONSTRUCTION. 7. COORDINATE WITH ELECTRCIAL DRAWINGS FOR ALL LIGHTING, POWER AND DATA REQUIREMENTS.

8. ALL INTERIOR FINISHES ARE NOTED FOR CONCEPT ONLY. SEE INTERIOR DRAWINGS FOR MATERIAL SPECIFICATIONS,

COLORS, PATTERNS, AND OTHER REQUIREMENTS PRIOR TO INSTALLATION.

CEILING TAG SYMBOL DESCRIPTION C1 1' - 0" CEILING TYPE - HEIGHT

# REFLECTED CEILING PLAN KEYNOTES



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WARM SPRINGS RESIDENCE

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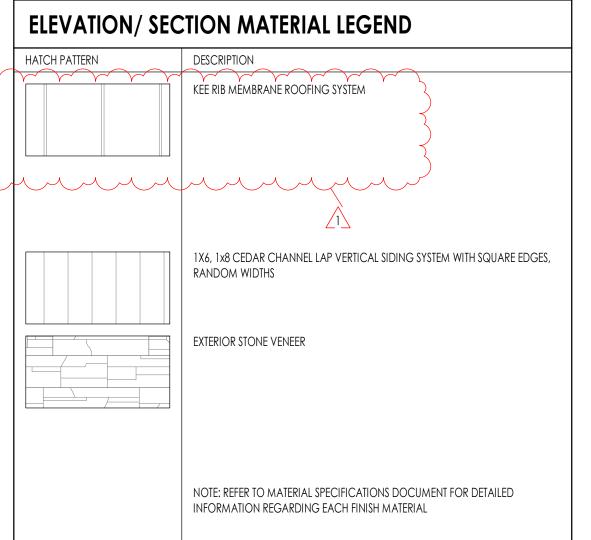
DATE: 2023.06.30 REVISIONS:

SHEET TITLE:
LEVEL 2 CEILING PLAN

LEVEL 2 - REFLECTED CEILING PLAN

1/4" = 1'-0"

CONCRETE WALL



EL-09 AN APPROVED KEY BOX SHALL BE INSTALLED, WITH THE APPROPRIATE KEYS FOR EMERGENCY FIRE DEPARTMENT ACCESS IN A LOCATION APPROVED BY THE FIRE DEPARTMENT, THE KEY BOX SHALL BE A KNOX BOX BRAND AND SIZED TO ACCOMMODATE KEYS TO EVERY DOOR OF THE PROJECT. LOCATION NO MORE THAN 3FT HOR. FROM MAIN DOOR AND NO MORE THAT 5.5FT VERTICAL- VERIFY LOCAL CODE. EL-10 APPROVED ADDRESS NUMBERS SHALL BE PLACED IN SUCH A POSITION TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE ROAD FRONTING THE PROPERTY. NUMBERS AND LETTERS SHALL BE A MINIMUM OF FOUR (4) INCHES TALL, HAVE A MINIMUM ½" BRUSH STROKE, CONTRAST WITH THEIR BACKGROUND, AND BE

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WARM SPRINGS RESIDENCE #32

PROJECT NC22023.32 2023.06.30

REVISIONS:

1 04-27-2023 PER CITY COMMENTS

SHEET TITLE:
EXTERIOR ELEVATIONS

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EAST ELEVATION

TOP OF FOUNDATION
111'-8 1/4"

LEVEL 2 - BEARING 110'-5 3/4"

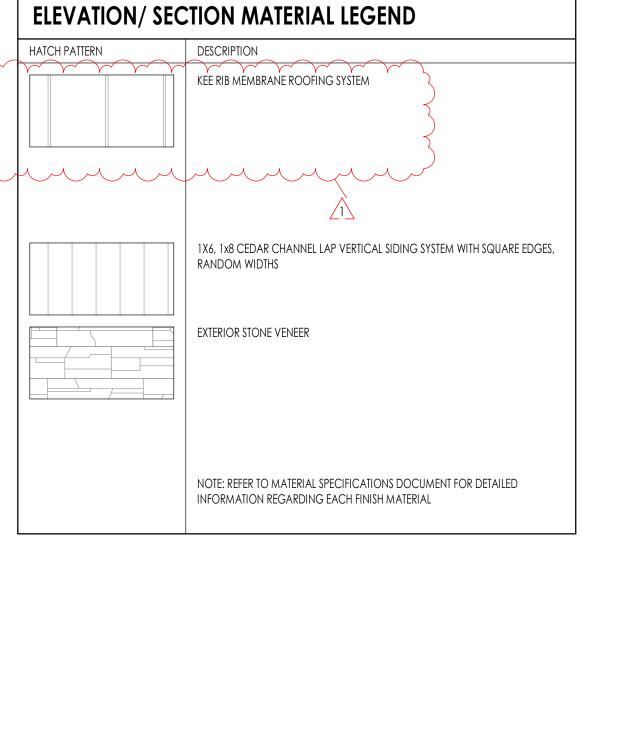
WARM SPRINGS ROAD ELEV. 5858' - 7'

PROPERTY LINE ELEV. 5857'

BALD MOUNTAIN RD ELEV. 5833' - 2"

LEVEL 2 - T.O. PLY
112'-0"
TOP OF FOUNDATION
111'-8 1/4"

LEVEL 2 - BEARING 110'-5 3/4"



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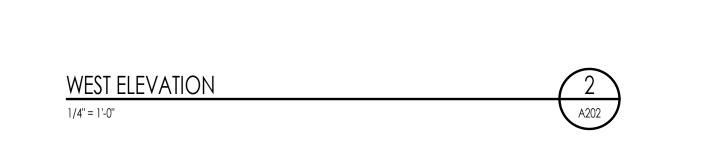


WARM SPRINGS RESIDENCE

PROJECT NC22023.32 2023.06.30 DATE:

REVISIONS: 1 04-27-2023 PER CITY COMMENTS

SHEET TITLE:
EXTERIOR ELEVATIONS



BALD MOUNTAIN RD ELEV. 5832' - 0"

TOP OF CHIMNEY 130'-0"

ROOF BEARING 122'-0"

LEVEL 2 - T.O. PLY 112'-0"

TOP OF FOUNDATION
111'-8 1/4"
LEVEL 2 - BEARING
110'-5 3/4"

LEVEL 1 - T.O. PLY

L-2

FROMIDECK DRAIN

PIPELINE

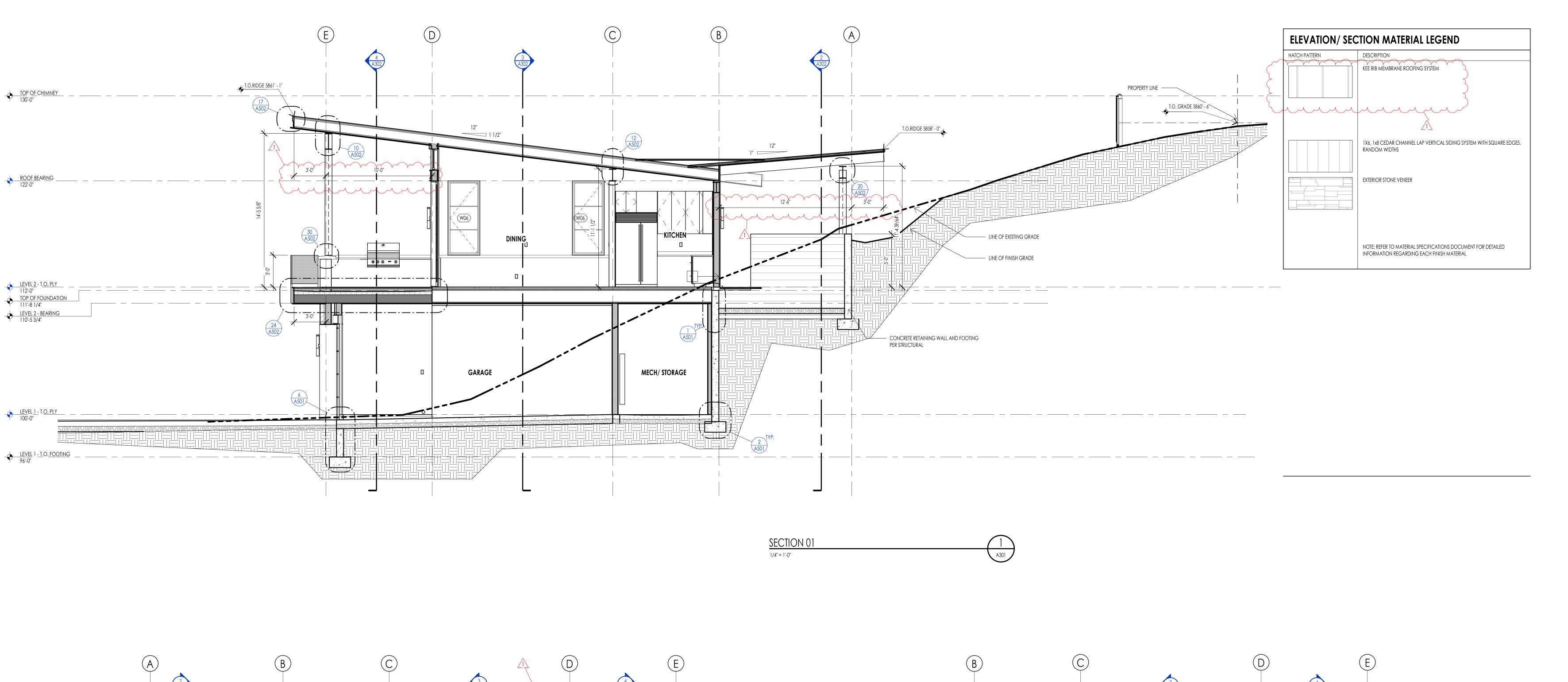
1.0. FOOTING
96'-0"

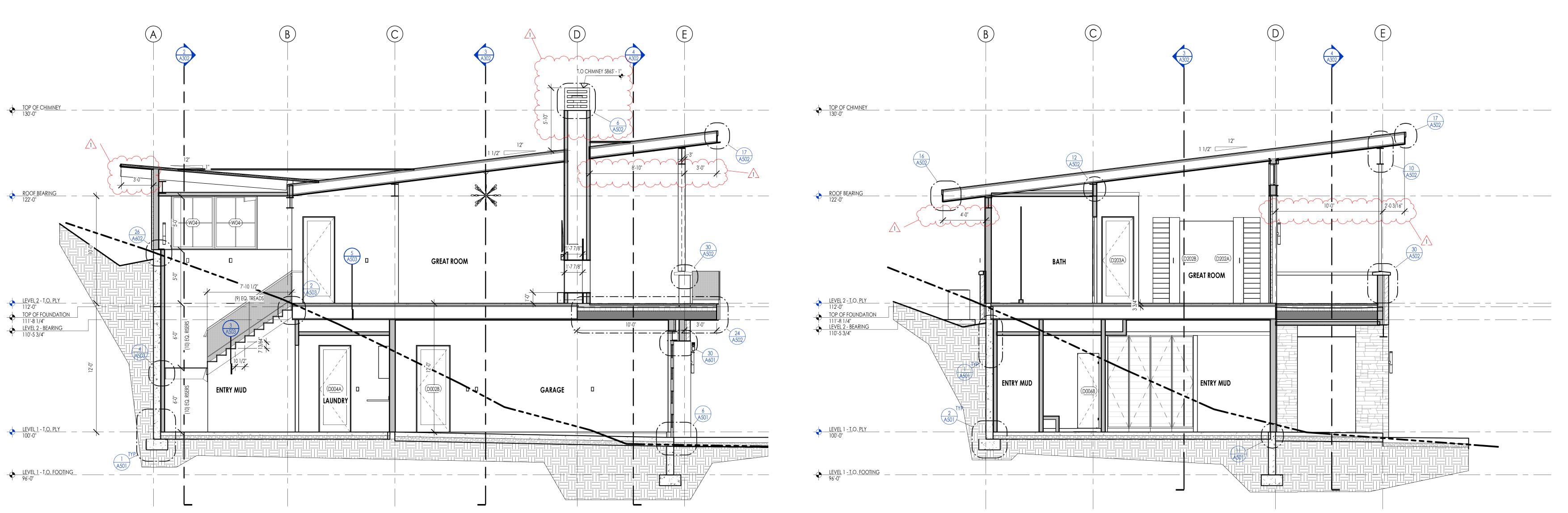
RAIN WATER SPOUT

WARM SPRINGS ROAD ELEV. 5859' - 5"

PROPERTY LINE ELEV.  $5858' - 2''_1$ 

LEVEL 2 - T.O. PLY
112'-0"
TOP OF FOUNDATION
111'-8 1/4"
LEVEL 2 - BEARING
110'-5 3/4"







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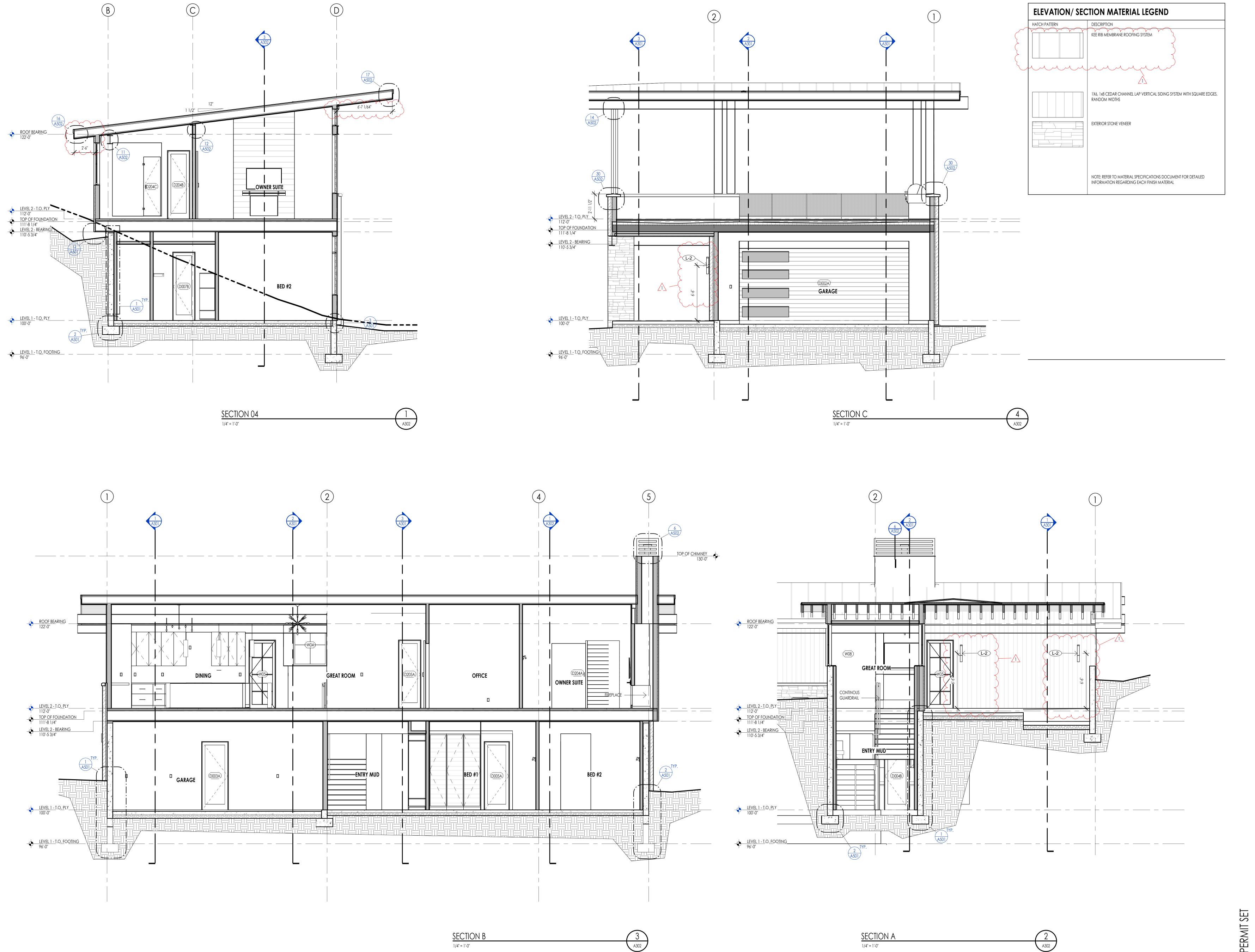


WARM SPRINGS RESIDENCE #32

PROJECT NC22023.32 2023.06.30

REVISIONS: 1 04-27-2023 PER CITY COMMENTS

SHEET TITLE:
BUILDING SECTIONS





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WARM SPRINGS RESIDENCE #32

PROJECT NC22023.32 2023.06.30

1 04-27-2023 PER CITY COMMENTS

SHEET TITLE:
BUILDING SECTIONS

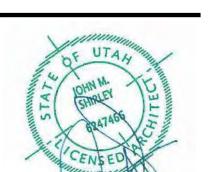


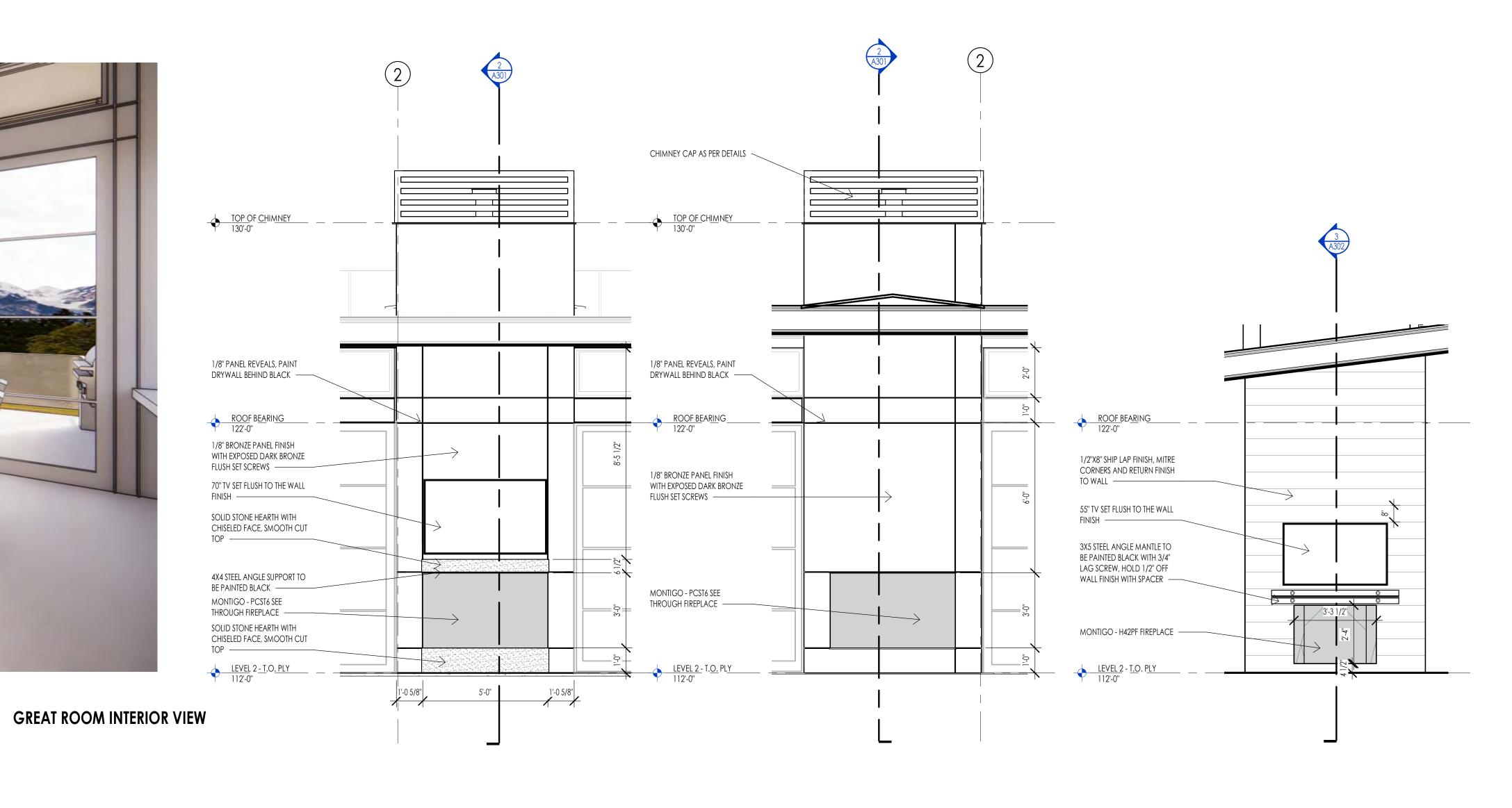


Landscape Architecture Construction Management

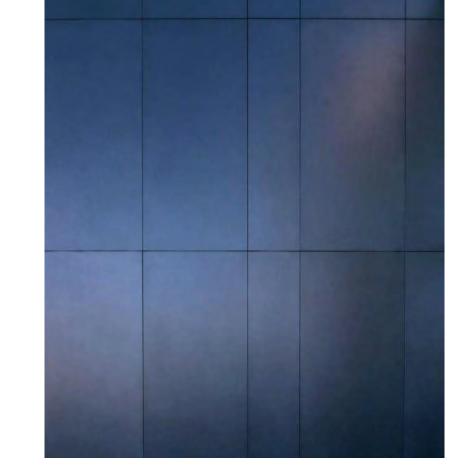
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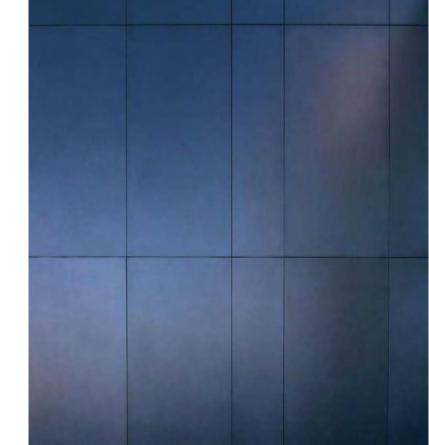
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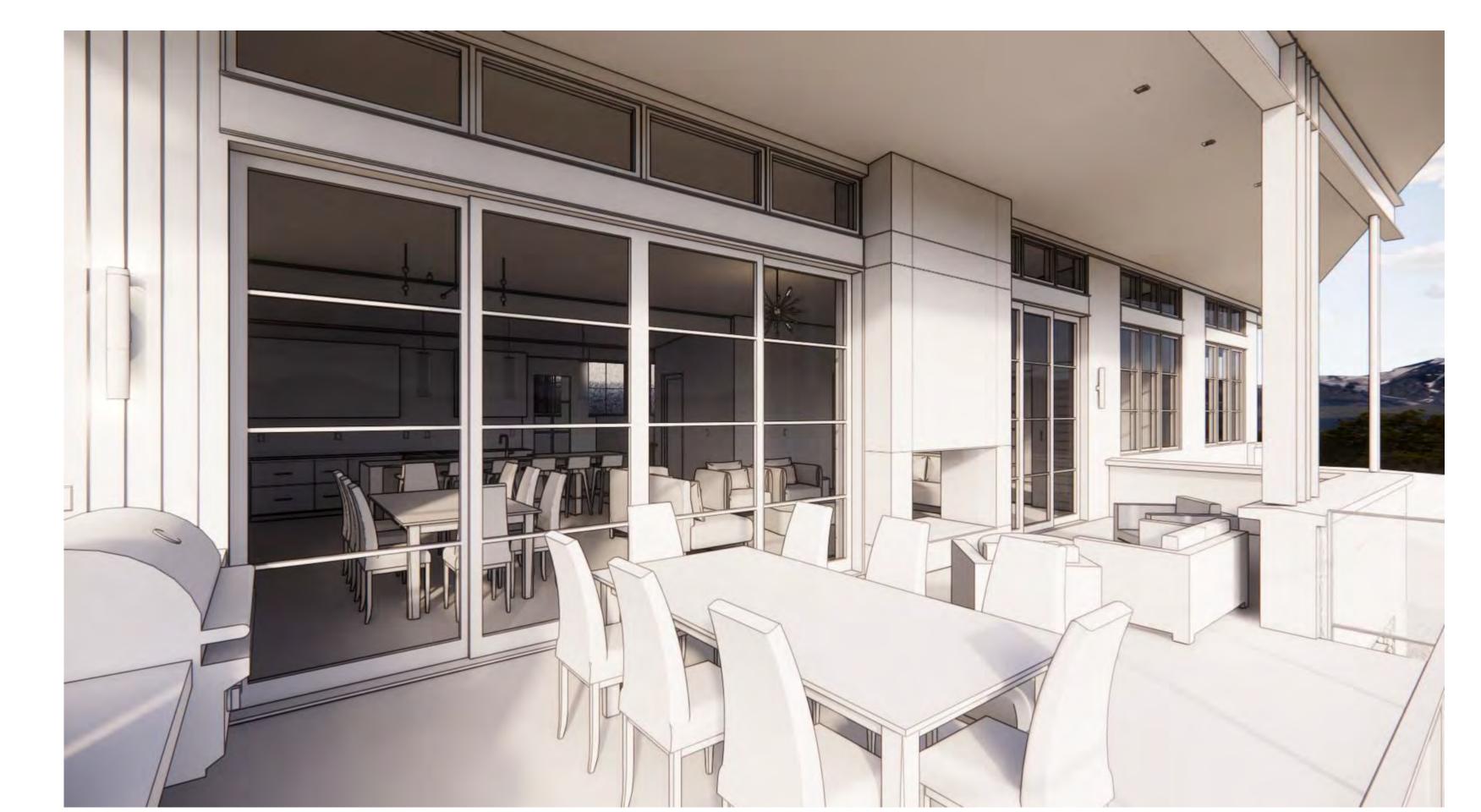




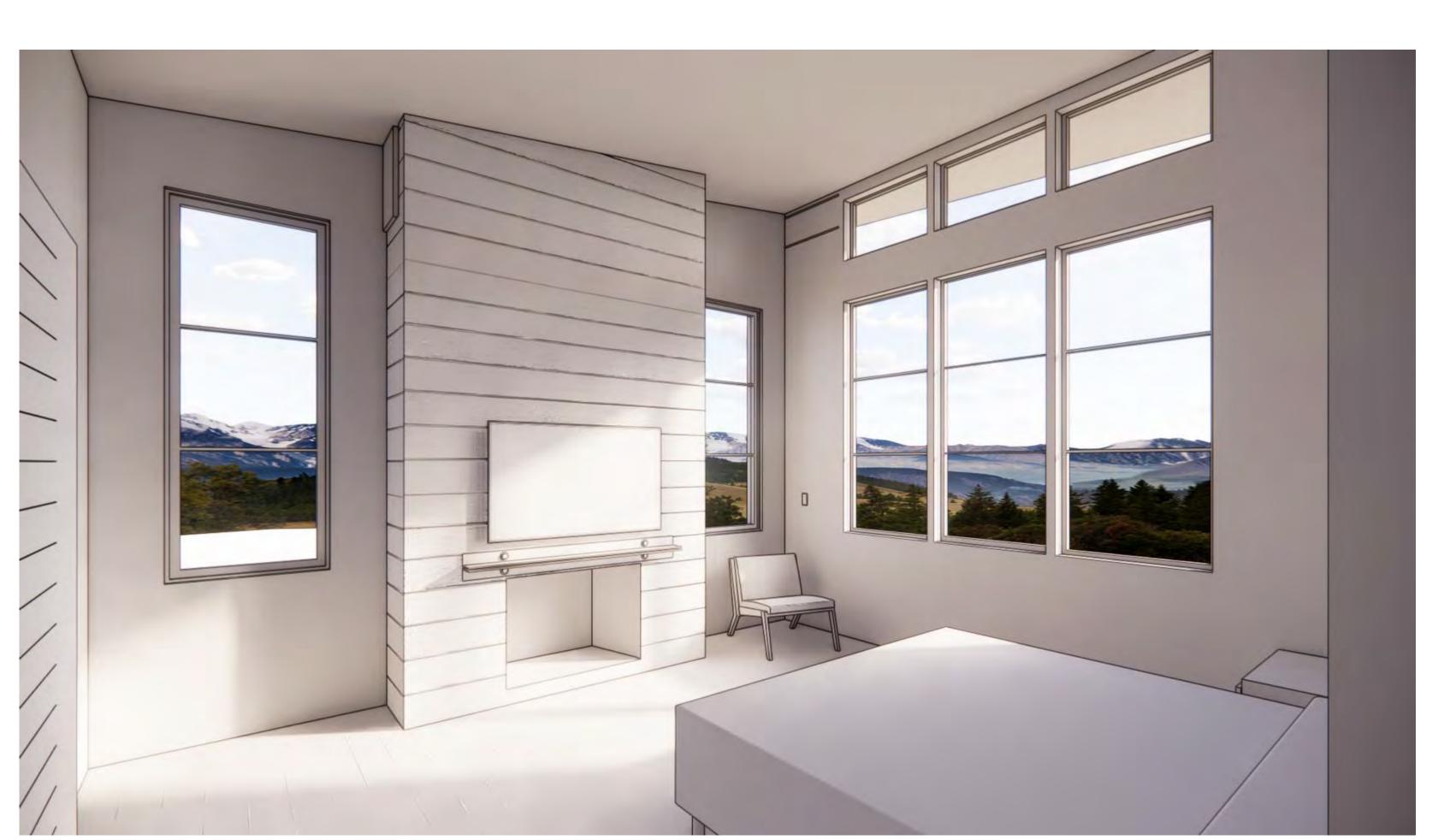


INTERIOR WOOD SLAT FINISH

STEEL FIREPLACE SURROUND



**OUTDOOR LIVING VIEW** 



OWNER SUITE INTERIOR VIEW

PROJECT NC22023.32 DATE: 2023.06.30 REVISIONS:

WARM SPRINGS RESIDENCE #32

SHEET TITLE:
FIREPLACE ELEVATIONS

MASONRY ATTACHMENT DETAIL

MASONRY WEEP SCREEN

FRAMING - TYPICAL VERTICAL SIDING WALL ASSEMBLY 14 FRAMING - TYPICAL METAL PANEL WALL ASSEMBLY

1 1/2" = 1'-0"



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Construction Managemen

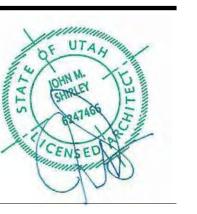
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SPRINGS RESIDENCE #32

SIDING CEDAR SHIP LAP - OUTSIDE CORNER KEY

PROJECT NC22023.32 DATE: 2023.06.30

60 BALD KETCHUM

1 04-27-2023 PER CITY COMMENTS

SHEET TITLE:

ARCHITECTURAL

DETAILS

REVISIONS:

SHEET NUMBER:

A501

FRAMING - TYPICAL STONE MASONRY WALL ASSEMBLY 13

1 1/2" = 1'-0"

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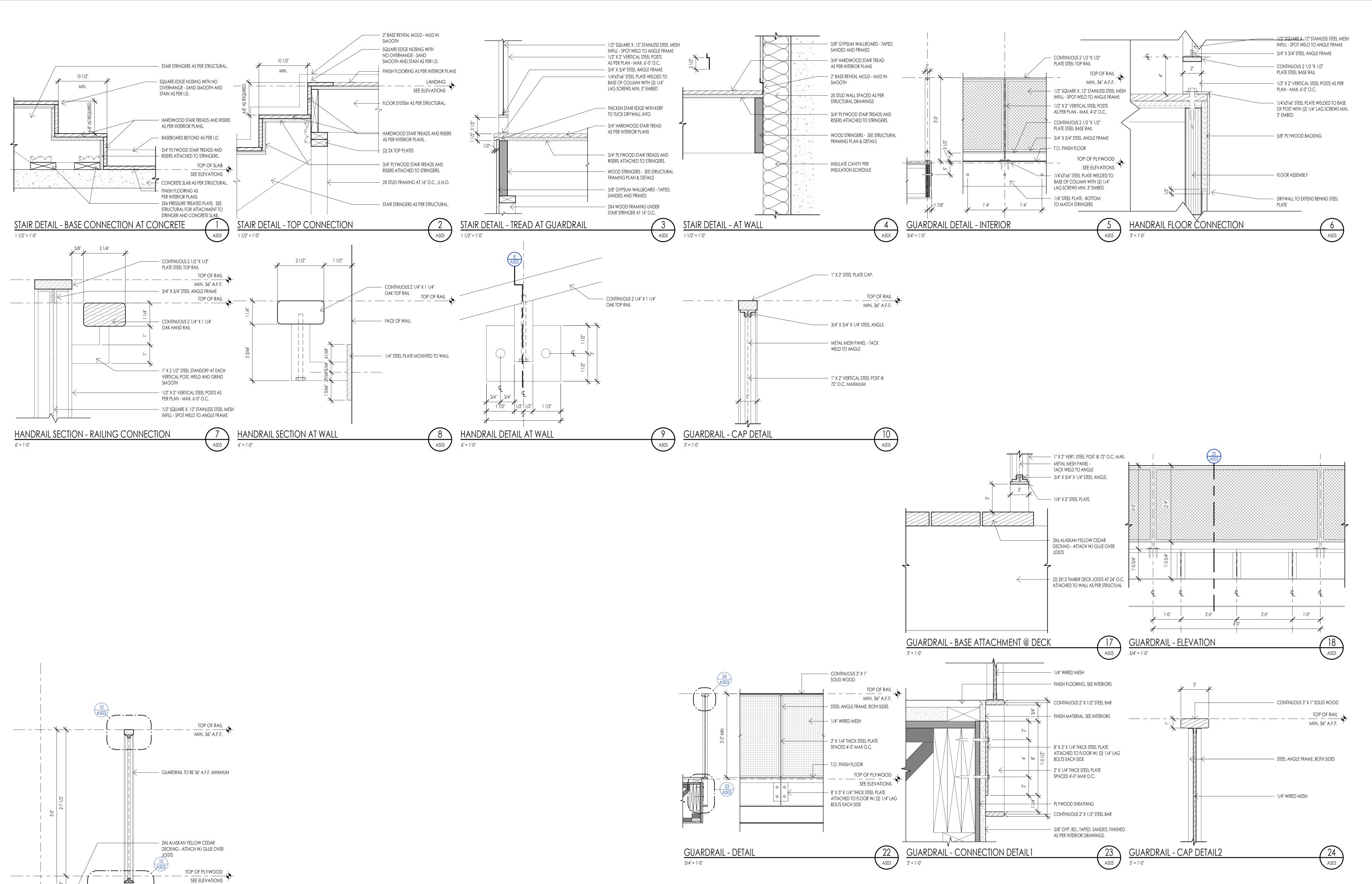
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32 SPRINGS RESIDENCE WARM

PROJECT NC22023.32 2023.06.30

**REVISIONS:** 



2023.06.30 **REVISIONS:** 

PROJECT NC22023.32

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32

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STAIR/ RAIL DETAILS

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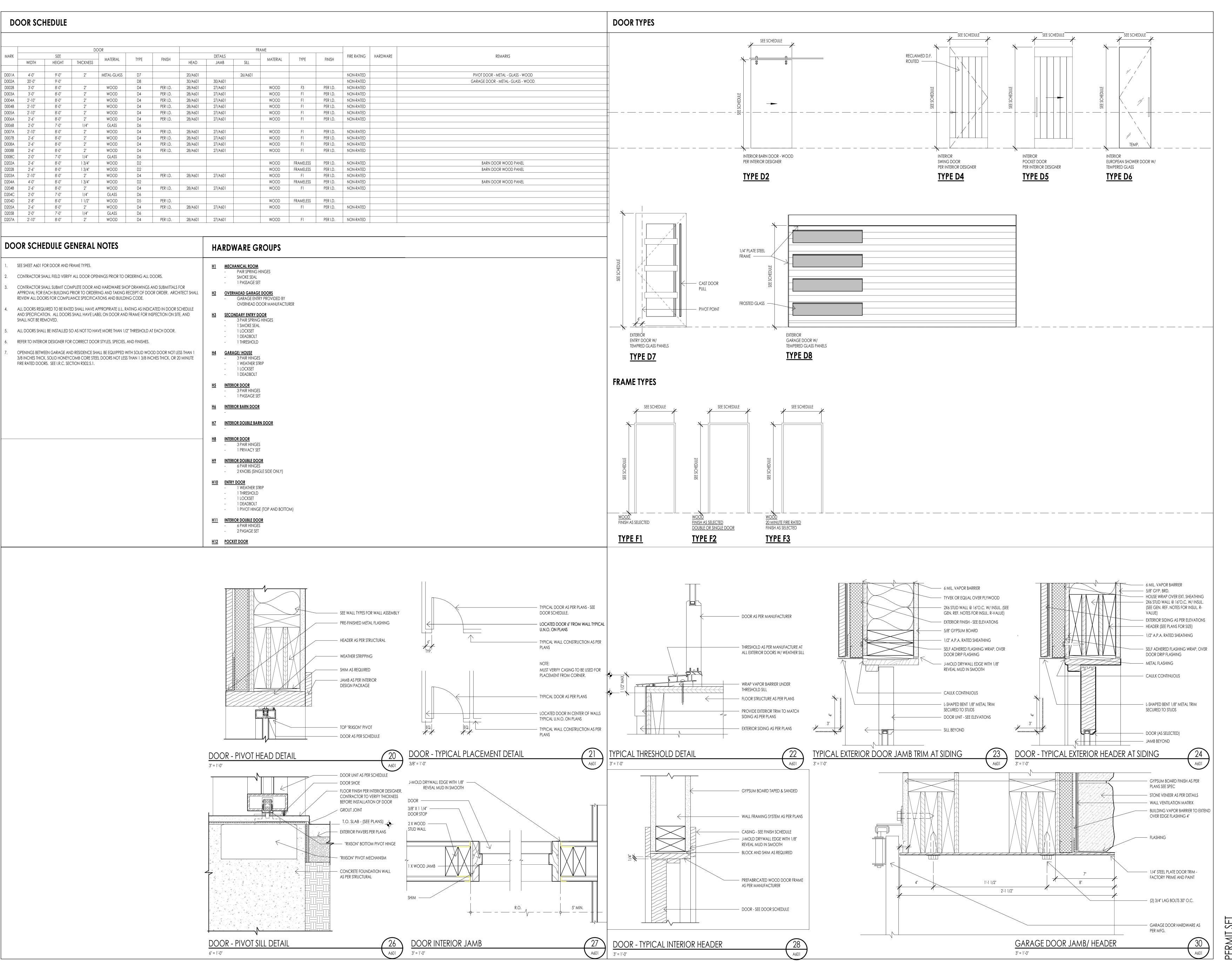
 $\Gamma - \stackrel{+}{\cdot} - \gamma$ 

GUARDRAIL - SECTION DETAIL

SEE REFLECTED CEILING PLAN

— (2) 2X12 TIMBER DECK JOISTS AT 24" O.C. ATTACHED TO WALL AS PER STRUCTUAL

STEEL BEAM AS PER STRUCTURAL -PRIMED AND PAINTED



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32 RESIDENCE SPRINGS

WARM

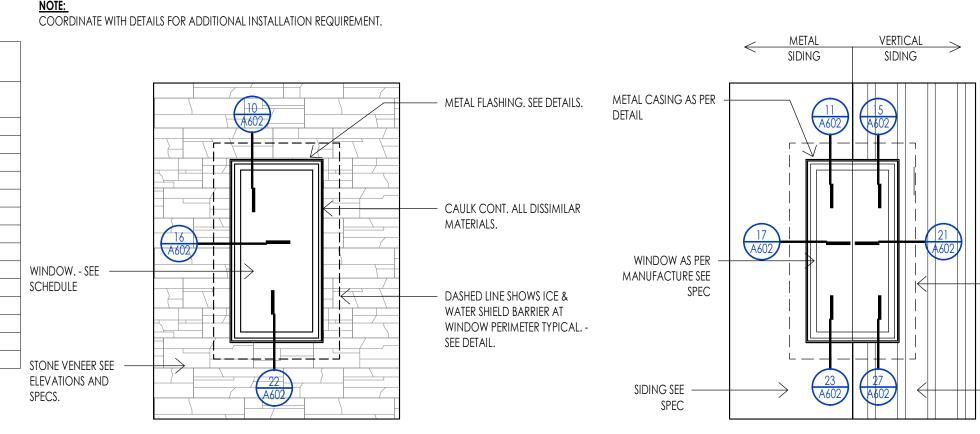
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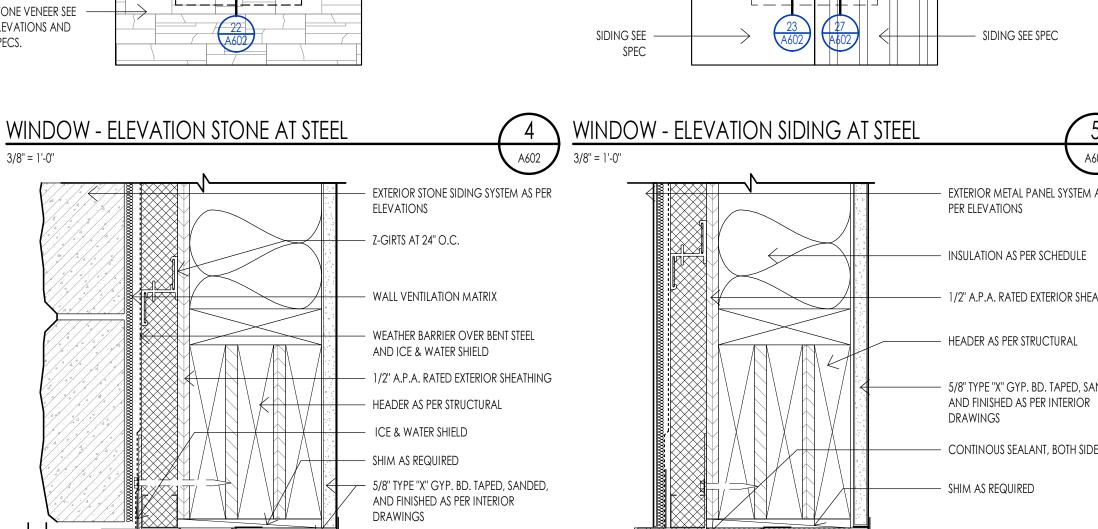
PROJECT NC22023.32 2023.06.30

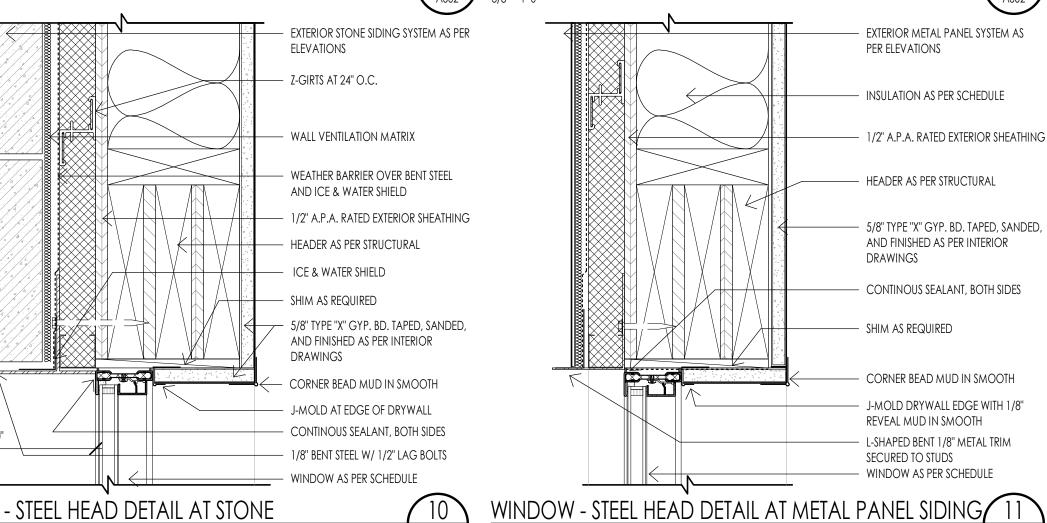
SHEET TITLE: DOOR SCHEDULE & **ELEVATIONS** 

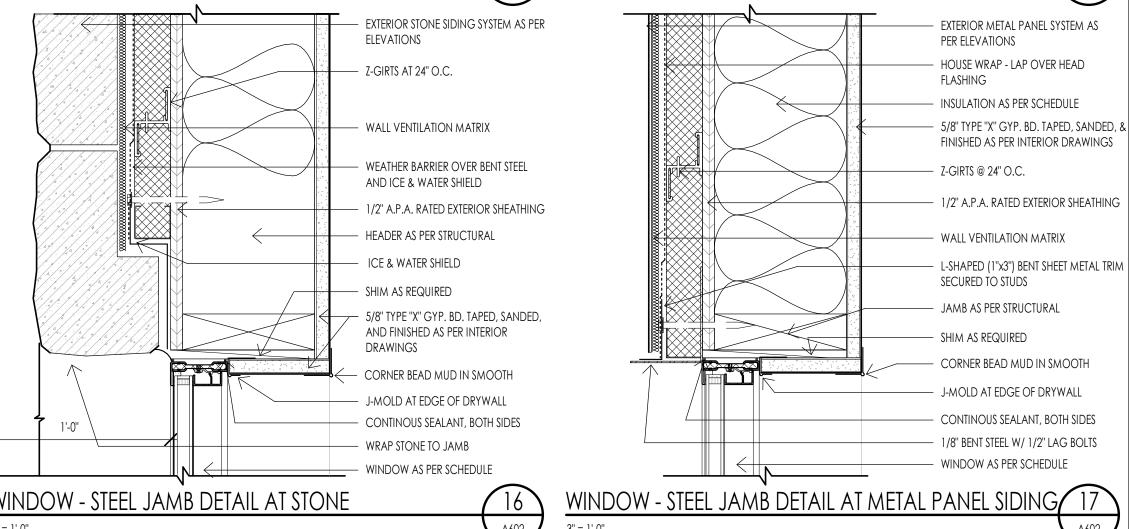
SHEET NUMBER:

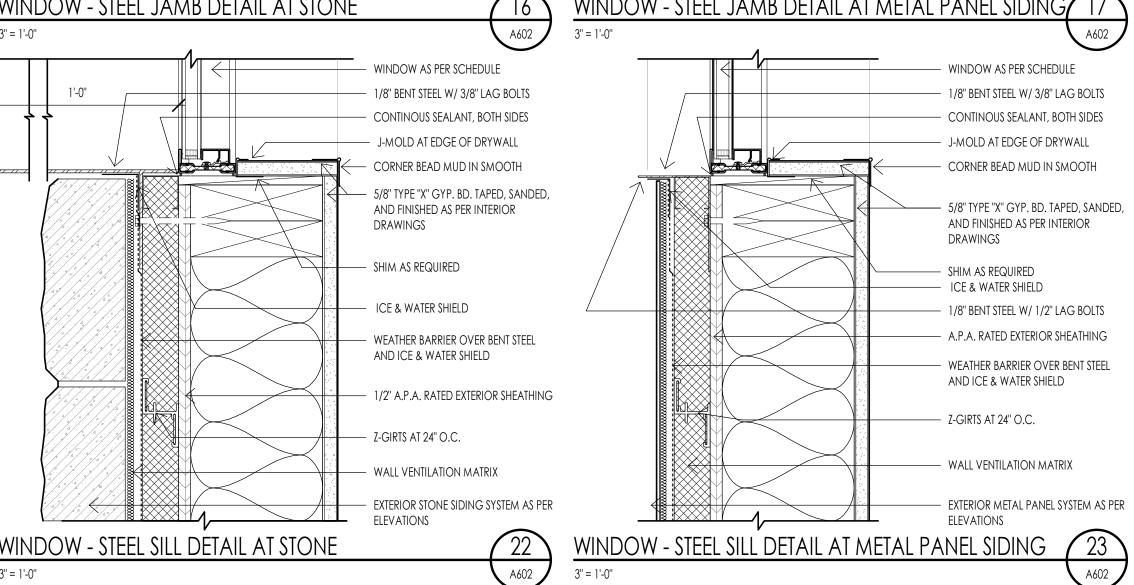
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<ul> <li>EXTERIOR STONE SIDING SYSTEM AS PER ELEVATIONS</li> </ul>	EXTERIOR METAL PANEL SYSTEM AS PER ELEVATIONS	
22	WINDOW - STEEL SILL DETAIL AT METAL PANEL SIDING 23	MECHANICALLY FASTEN AS ———————————————————————————————————
A602	3" = 1'-0" A602	WEATHER RESISITVE BARRIER AS PER SPECS.
EXTERIOR METAL	1-1/2" RIGID INSULATION	
PANEL SYSTEM AS PER ELEVATIONS	1/2" A.P.A. RATED EXTERIOR SHEATHING	TAPE
	HEADER AS PER STRUCTURAL	GR SN
	BOX BLINDS AS PER OWNER	SETE ANDOMINATION OF THE STATE
	REFER TO R.C.P. FOR DIM.  CEILING STRUCTURE AS REQUIRED	FLASHING ON WINDOW) WINDOW. PILL WINDOW. PIL
		SNIA
		GRACE VYCOR PLUS
		GENERAL NOTE: INSTALL PER MANUFACTURER'S RECOMM
		MIN. MEET MOST STRINGENT REQUIREME AND WINDOW AND SELF ADHESIVE FLAS
		HEAD FLASHING TIE-IN INSTRUCTIONS:
		CUT, FOLD UP & TEMPORARILY SECUR     ABOVE HEADER TO ALLOW FOR FLASHING
		2. INSTALL SELF ADHESIVE HEAD FLASHING
L-SHAPED (1"x3") BENT SHEET METAL TRIM		BARRIER.  3. FOLD WEATHER RESISTIVE BARRIER BAC
SECURED TO STUDS —		WITH TAPE.
CONTINOUS SEALANT, BOTH SIDES	T&G CEILING. REFER TO REFLECTED CEILING PLAN	
WINDOW AS PER	COVER PLATE WITH ATTACHMENT ANGLE	
SCHEDULE —	1/8" STEEL PLATE	

WINDOW LEGEND		
SYMBOL	DESCRIPTION	
T	TEMPERED GLAZING LOCATIONS.	
	DIRECTION OF OPERABLE WINDOW/ DOOR.	
E	WINDOW IS REQUIRED TO MEET EMERGENCY EGRESS.	

- DASHED LINE SHOWS ICE & WATER SHIELD BARRIER AT	WINDOW SPECIFICATIONS		
WINDOW PERIMETER TYPICAL	APPROVED MANUFACTURERS:	MINUMUM U-VALUE:	
		SCREENS REQUIRED:	
- SIDING SEE SPEC	BASIS OF DESIGN:	SCREEN COLOR:	
	WINDOW TYPE:	TYPICAL JAMB WIDTH:	
		SDL WIDTH:	
5	WINDOW COLOR:	SDL TYPE:	

### WINDOW GENERAL NOTES

WINDOW GLAZING:

EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL MEET THH FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R310. A. BASEMENTS WITH HABITABLE SPACES SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND

- RESCUE WINDOW OR DOOR OR ACCESS TO AN ADJOINING BEDROOM WITH AN EMERGENCY ESCAPE AND RESCUE WINDOW. ALL EMERGENCY OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING AREA OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES. EMERGENCY OPININGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS. EXCEPT GROUND FLOOR, NET CLEAR AREA OF 5.0
- SQUARE FEET. R310.1.1 TO R310.1.4. WINDOW SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR. OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A
- WINDOW WELL. R310.2.2 WINDOW WELLS REQUIRED FOR ESCAPE OR RESCUE SHALL HAVE HORIZONTAL DIMENSIONS THAT ALLOW THE DOOR OR WINDOW TO BE FULLY OPENED. THE HORIZONTAL DIMENSION FOR THE WINDOW WELL SHALL PROVIDE A MINIMUM NET CLEAR AREA OF 9 SQUARE FEET WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. R310.2.3
- WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES BELOW THE ADJACENT GROUND LEVEL SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USEABLE WITH THE WINDOW IN THE FULLY OPENED POSITION. LADDERS OR RUNGS SHALL HAVE AN INSIDE WIDTH OF AT LEAST 12 INCHES, SHALL PROJECT AT LEAST 3 INCHES FROM THE WALL AND SHALL BE SPACED NOT MORE THAN 18 INCHES ON CENTER VERTICALLY FOR THE FULL HEIGHT OF THE WINDOW WELL. R310.2.3.1
- BARS, GRILLS, COVERS, SCREENS, ETC. SHALL BE PERMITTED TO BE PLACED OVER THE EMERGENCY EGRESS OPENING WINDOW WELL PROVIDED THE NET CLEAR OPENING SIZE IS NOT COMPROMISED AND THAT SUCH DEVICES SHALL BE RELEASED OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION. R310.4 SAFETY GLAZING SHALL BE INSTALLED IN HAZARDOUS LOCATIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.R.C. SECTION R308. FOR EXCEPTIONS SEE I.R.C. R308.4.
- EACH PANE OF GLASS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PERMANENTLY IDENTIFIED BY MANUFACTURER, DESIGNATING THE TYPE, THICKNESS, AND SAFETY GLAZING STANDARD. THE LABEL SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC FIRED OR EMBOSSED ON GLASS AND BE VISIBLE WHEN THE UNIT IS GLAZED. FOR EXCEPTIONS SEE I.R.C. R308.1.
- DOORS (R308.4.1.). SAFETY GLAZING SHALL BE PROVIDED WHEN GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE AND IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION OR WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF AN IN-SWINGING DOOR. (I.R.C. R308.4.2)
- PROVIDE SAFETY GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS. (I.R.C. R308.4.6) PROVIDE SAFETY GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM
- ROOMS, BATHTUBS AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING OR WALKING SURFACE. (I.R.C. R308.4.5)
- PROVIDE SAFETY GLAZING IN RAILINGS REGARDLESS OF AN AREA OR HEIGHT. (I.R.C. R308.4.4) PROVIDE SAFETY GLAZING IN WALLS AND FENCES ENCLOSING SWIMMING POOLS OR HOT TUBS WHERE THE THE BOTTOM EDGE OF THE POOL OR SPA GLASS IS LESS THAN 60 INCHES ABOVE THE
- WALKING SURFACE. (I.R.C. R308.4.5) PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS THAT MEETS ALL OF THE FOLLOWING CONDITIONS: AREAS GREATER THAN 9 SQUARE FEET, BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR, TOP EDGE GREATER THAN 36 INCHES ABOVE FLOOR, AND WITHIN 36 INCHES OF WALKING

SURFACE. (I.R.C. R308.4.3) THE GENERAL CONTRACTOR AND WINDOW SUPPLIER ARE RESPONSIBLE TO FIELD MEASURE ALL WINDOW OPENINGS AND PROVIDE SHOP DRAWINGS BEFORE MANUFACTURERING. SHOP DRAWINGS SHALL BE PROVIDED FOR EACH BUILDING INDIVIDUALLY AND SHALL NOT BE COMBINED WITH ANY OTHER BUILDING. THE WINDOW SUPPLIER SHALL BE RESPONSIBLE TO VERIFY ALL EMERGENCY EGRESS, LIGHT AND VENTILATION, AND TEMPERED GLASS LOCATION REQUIREMENTS PRIOR TO EACH SUBMITTAL. THE GENERAL CONTRACTOR AND WINDOW SUPPLIER ARE RESPONSIBLE TO VERIFY THAT EACH OF THE ABOVE LISTED REQUIREMENTS HAVE BEEN MET AND NOTE ANY DESCREPANCIES ON SUBMITTAL. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FOLD UP WEATHER RESISTIVE

- EXTERIOR SHEATHING.

BARRIER & TEMPORARILY SECURE.

WEATHER RESISITVE BARRIER AS PER

— DO NOT FLASH OVER BOTTOM

VARIES, MIN. 8". VERIFY W/SPECS. AND

MANUF. FOR COVERAGE OF FLASHING

PLANS AND SPECS.

NAILING FLANGE.

ON WALL SURFACES.

Architecture

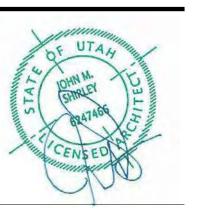
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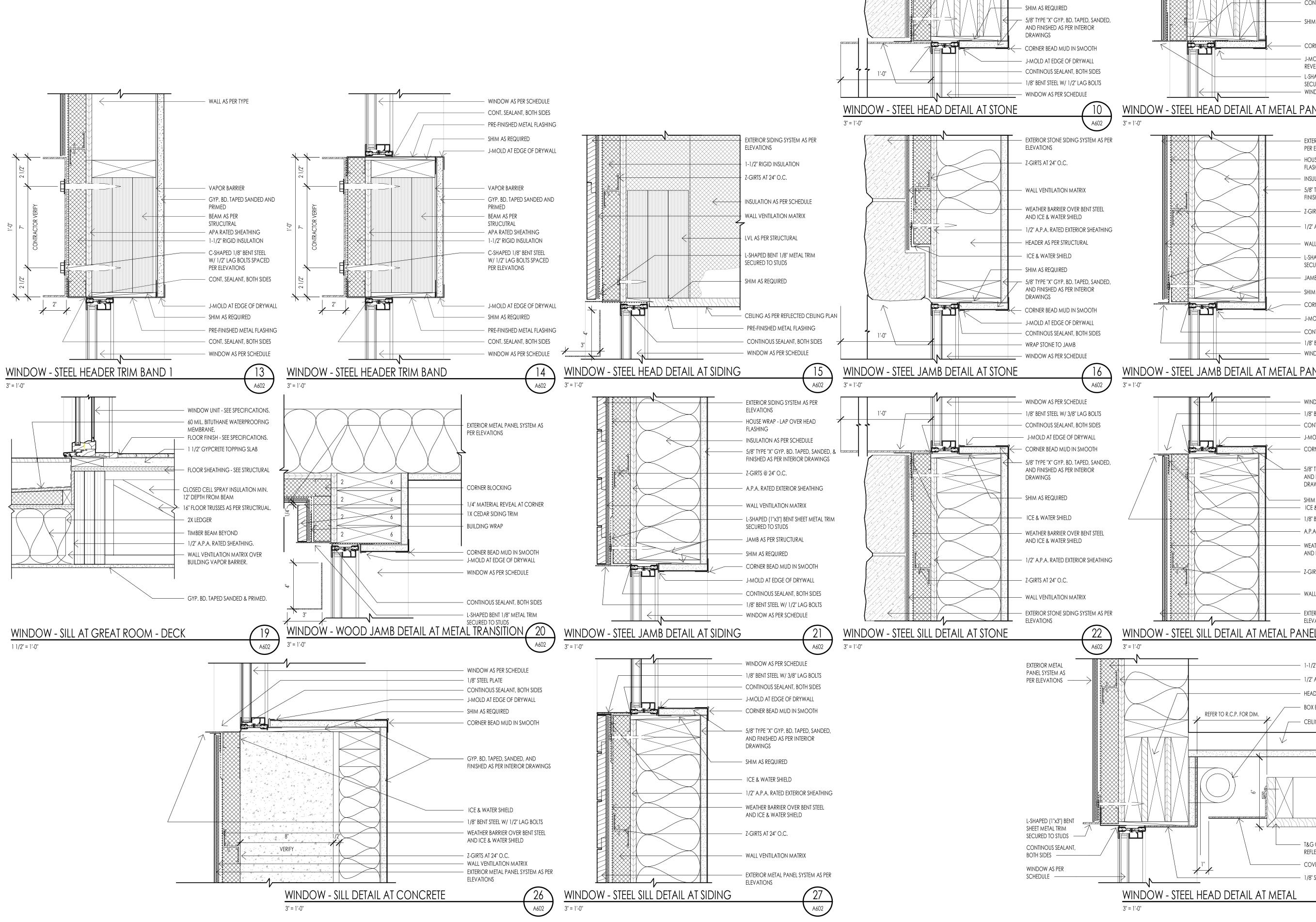
PROJECT NC22023.32

**REVISIONS:** 

WINDOW SCHEDULE 8

SHEET NUMBER:

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PER MANUFACTURER'S RECOMMENDATIONS EET MOST STRINGENT REQUIREMENTS OF SPECS NDOW AND SELF ADHESIVE FLASHING MANUF. ASHING TIE-IN INSTRUCTIONS: FOLD UP & TEMPORARILY SECURE WEATHER RESISTIVE BARRIER HEADER TO ALLOW FOR FLASHING INSTALLATION. LL SELF ADHESIVE HEAD FLASHING UNDER WEATHER RESISTIVE

WEATHER RESISTIVE BARRIER BACK OVER HEAD FLASHING AND SEAL

29 | WINDOW - TYPICAL FLASHING DETAIL

### PLUMBING GENERAL NOTES

THE PLUMBING SYSTEM SHALL BE DESIGNED BY A LICENSED MECHANICAL CONTRACTOR/DESIGNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 IRC, IPC AND IECC. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE PLUMBING SYSTEM INSTALLATION AND SHALL

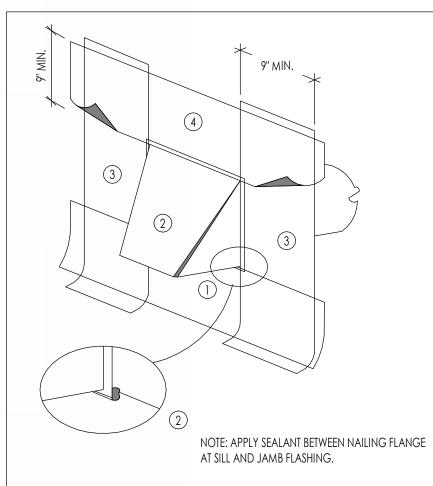
PROVIDE A (1) ONE YEAR WARRANTY BEGINNING FROM THE TIME OF CERTIFICATE OF OCCUPANCY. THE

- CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER COMPLETE OPERATION AND MAINTENANCE MANUALS. THE CONTRACTOR SHALL ALSO SET UP A TIME TO PROVIDE COMPLETE TRAINING OF THE SYSTEM TO THE OWNER. THE PLUMBING CONTRACTOR SHALL REVIEW AND SHALL GANG ALL ROOF VENTS INTO SINGLE ROOF VENTS WHERE POSSIBLE, AND SHALL RUN THE VENTS OUT OF THE ROOF AT THE HIGHEST POINT POSSIBLE. ALL VENTS SHALL HAVE BLOCKING ON EACH SIDE OF THE VENT IN THE ROOF STRUCTURE TO ENSURE THE VENTS WILL NOT BE MOVED DUE TO SNOW ON THE ROOF. ALL VENTS SHALL BE SIZED PER THE BUILDING CODE, BUT SHALL NOT BE LESS THAN 3 INCH PIPES. THE PLUMBING CONTACTOR SHALL COORDINATE THAT THE PROPER FLASHING HAS BEEN INSTALLED
- FOR EACH VENT. THE ROOF VENTS SHALL EXTEND ABOVE THE ROOF AS REQUIRED BY THE LOCAL JURISDICTION AND BUILDING CODES. THE PLUMBING CONTRACTOR SHALL COORDINATE THIS INSTALLATION.
- ALL PLUMBING FIXTURES ARE SPECIFIED ON THE MECHANICAL DRAWINGS, AND ON THE INTERIOR DRAWINGS. THE PLUMBING CONTRACTOR SHALL PROVIDE FULL AND COMPLETE SHOP DRAWING SUBMITTAL ON ALL PLUMBING FIXTURE ITEMS FOR APPROVAL BY OWNER AND DESIGN TEAM.
- THE PLUMBING FIXTURES SHALL HAVE THE FOLLOWING REQUIREMENTS:
- a. Shower heads shall have a flow rate of 2.5 GPM or less WATER CLOSETS SHALL HAVE ECONO-FLUSH TANK 1.6 GAL MAX FLUSH
- C. ALL HOSE BIBS SHALL BE NON-FREEZE TYPE WITH BACK FLOW PREVENTERS. THE PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN STRICT ACCORDANCE WITH THE MANUFACTURES ROUGHED IN INSTRUCTIONS. TAKE CARE DURING BUILDING CONSTRUCTION TO SEE THAT PROVISIONS ARE MADE FOR PROPOER FIXTURE SUPPORT AND THAT PROVISIONS ARE MADE FOR PROPER FIXUTRE SUPPORT. ROUGH IN PIPING IS ACCURATELY SET AND PROTECTED FROM MOVEMENT OF DAMAGE
- DURING CONSTRUCTION. THE PLUMBING CONTRACTOR SHALL MAKE SURE THAT NO PLUMBING WILL BE INSTALLED WITHIN THE EXTERIOR
- PLUMBING CONTRACTOR SHALL ASSESS WATER PRESSURE AND ENSURE ADEQUATE PRESSURE IS AVAILABLE FOR MULTIPLE FIXTURE USE SIMUTANEOULSLY WITH OUT PRESSURE DECREASE OR TEMPERATURE FLUCTUATION.
- PLUMBING CONTRACTOR SHALL PROVIDE A TURN OFF VALVE AND DRAIN AT THE LOWEST LEVEL OF THE FACILITY. ALL FIXUTRES SHALL BE ALBE TO DRAIN TO THIS POINT. PROVIDE A FLOOR DRAIN AT THE LOCATIONS OF PLUMBING SYSTEM DRAIN.
- ALL SUPPLY, WASTE AND GAS LINE MATERIALS, WORKMANSHIP, AND INSTALLATION AS PER INDUSTRY STANDARDS. ALL WATER SUPPLY LINES IN THE BUILDING SHALL BE TYPE "L" COPPER, TO INCLUDED PIPING TO MANIFOLDS, EQUIPMENT SHALL BE COPPER WITHIN THE BUILDING. ALL SUPPLY TO FIXTURES MAY BE POLYETHYLENE CROSS LINK PIPING FOR ABOVE GROUND AND BUILDING APPLICATIONS. INSTALL AS PER MANUFACTURERS SPECIFICATIONS. ALL CONNECTIONS FOR POLYETHYLENE PIPPING SHALL BE BRASS FITTINGS WITH COMPRESSION BAND FITTINGS.
- ALL WATER LINES UNDERGROUND SHALL BE TYPE "K" COPPER. ALL FITTINGS AND JOINTS SHALL BE SWEAT SOLDER JOINTS TOGETHER.
- WASTE LINES SHALL BE PROVIDED WITH CLEAN OUT AS REQUIRED. EXTEND CLEAN OUT TO ACCESSIBLE SURFACE. DO NOT PLACE CLEAN OUTS IN FLOORS UNLESS PREVIOUSLY APPROVED BY THE DESIGN TEAM AND OWNER. GAS PIPING SHALL BE INSTALLED AS PER THE LATEST CODE REQUIREMENTS FOR THIS TYPE OF PROJECT. ALL GAS
- PIPING SHALL BE FULLY TESTED AND INSPECTED FOR ANY LEAKS PRIOR TO FINAL COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL INSTALL SHUT OFF VALVES AT EACH GAS APPLIANCE AND SHALL LOCATE THE VALVE TO HAVE ACCESS TO THE VALVE. PLUMBING CONTRACTOR SHALL TEST ALL PIPING INCLUDING DRAINAGE WASTE LINES, WATER PIPING, NATURAL
- GAS PIPING AND FITTINGS. ALL TEST SHALL BE PEFORMED TO MEET THE REQUIREMENTS OF THE APPLICABLE ALL WATER LINES SHALL FULLY DISINFECTED UPON THE FINAL COMPLETION OF THE PROJECT, AND BEFORE
- CERTIFICATE OF OCCUPANCY AND TURN OVER TO THE OWNER. ALL DRAINS SHALL HAVE A TRAP PRIMER OR EQUAL AS NECESSARY TO KEEP THE INTEGRITY OF THE PLUMBING TRAP.

- MECHANICAL GENERAL NOTES . THE MECHANICAL SYSTEM SHALL BE DESIGNED BY A LICENSED MECHANICAL CONTRACTOR/
- DESIGNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 IRC, IMC AND IECC. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE MECHANICAL SYSTEM INSTALLATION AND SHALL PROVIDE A (1) ONE YEAR WARRANTY BEGINNING FROM THE TIME OF CERTIFICATE OF OCCUPANCY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER COMPLETE OPERATION AND MAINTENANCE MANUALS. THE CONTRACTOR SHALL ALSO SET UP A
- TIME TO PROVIDE COMPLETE TRAINING OF THE SYSTEM TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISITNG CONDITIONS PRIOR TO STARTING THE WORK. THE MECHANICAL CONTRACTOR MUST ALSO PROVIDE NOTIFICATION TO THE ARCHITECT AND CONTRACTOR OF CONDITIONS THAT MAY BE DIFFERENT THAN EXPECTED DURING BIDDING.
- ALL LINE VOLTAGE AND LOW VOLTAGE CONTROL WIRING SHALL BE RAN, INSTALLED AND CONNECTED BY THE MECHANICAL CONTRACTOR OR THE MECHANICAL CONTRACTOR SHALL CONTRACT THE SCOPE OF WORK.
- ALL EQUIPMENT SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. THE CONTRACTOR MUST PROVIDE THE DOCUMENTATION THAT IT MEETS THE REQUIREMENTS OF THE ENERGY LEVELS BEING ACHIEVED WITHIN THIS BUILDING. 6. THE MECHANICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE DRAWINGS FOR
- LOCATIONS OF ALL MECHANICAL ZONES. EXHAUST FANS WHERE SHOWN ON EITHER THE MECHANICAL OR ELECTRICAL PLANS SHALL BE SIZED FOR A MINIMAL RATE OF 50 CFM. ALL FANS SHALL BE HARD DUCTED WITH RIGID DUCT (NO FLEX DUCT SHALL BE ALLOWED), AND DIRECTED DIRECTLY TO THE EXTERIOR OF THE BUILDING IN A SOFFIT OR SIDE WALL. THE TERMINATION OF ALL EXHAUST FANS SHALL BE A MINIMUM OF 10'-0" AWAY FROM ANY OPERABLE WINDOW. TERMINATIONS SHALL BE INSTALLED AS NOT TO BE BLOCKED BY SNOW AND ICE. FANS SHALL BE A DIRECT DRIVE CENTRIFUGAL UNIT WITH SLOW SPEED MOTOR.
- PROVIDE AN ACOUSTICAL INSULATION, GRIPS, CAPS, ETC AS REQUIRED. ALL GRILLS AND REGISTERS MUST BLEND TO THE ADJACENT FINISH, AND SHALL BE PROVIDED TO MEET THE REQUIREMENTS FOR THE FLOW RATE AS PER THE CFM REQUIREMENTS. ALL GRILLS SHALL BE EITHER PAINTED FOR METAL FINISH SELECTED.
- **WATER HEATERS** a. The required number of water heaters are shown on the mechanical plans. All WATER HEATERS SHALL BE 90% OR BETTER HIGH EFFICIENCY WATER HEATERS WITH RAPID RECOVERY. ALL WATER HEATERS SHALL BE INSTALLED WITH SEISMIC ANCHORING, AS PER
- ALL WATER HEATERS SHALL BE VENTED TO THE EXTEIOR. THE CONTRACTOR SHALL PROVIDE A FLOOR DRAIN WHETHER SHOWN OR NOT AT THE BASE OF ALL WATER HEATERS. THE FLOOR DRAIN MUST BE LOCATED, AND THE FLOOR MUST SLOPE
- TOWARD THE DRAIN IN A POSITIVE FLOW. GAS FIRED FURNANCES a. The required number of GAS fire furnaces shall be per the mechanical designer/
- ENGINEER. THE LOCATION IS SHOWN ON THE MECHANICAL DRAWINGS WHERE THE LOCATIONS ARE PROVIDED FOR THE GAS FIRE FURNACES. b. THE GAS FIRED FURNACES SHALL BE A MINIMUM OF 90% OR BETTER HIGH EFFICIENCY
- FURNACE. THE EXACT SIZE OF EACH OF THESE UNITS SHALL BE PER THE MECHANICAL DESIGNER/ENGINEER. c. THE VENTING OF EACH GAS FIRE FURNACE SHALL BE PVE PIPE AND SHALL BE LOCATED AWAY
- EXACT LOCATION WITH THE OWNER AND ARCHITECT. d. THE CONTRACTOR SHALL PROVIDE A FLOOR DRAIN BY THE GAS FIRED FURNANCES FOR THE UNIT CONDESATE LINES.

FROM THE MAIN ENTRIES OF THE BUILDING, AND WINDOW LOCATIONS. COORDINATE THE

- **GAS FIRE BOILERS** a. THE REQUIRED NUMBER OF GAS FIREBOILERS SHALL BE PER THE MECHANICAL DESIGNER/ ENGINEER. THE LOCATION IS SHOWN ON THE MECHANICAL DRAWINGS WHERE THE LOCATIONS ARE PROVIDED FOR THE GAS FIRE BOILERS.
- b. THE GAS FIRED BOILER SHALL BE A MINIMUM OF 90% OR BETTER HIGH EFFICIENCY FURNACE. THE EXACT SIZE OF EACH OF THESE UNITS SHALL BE PER THE MECHANICAL DESIGNER/
- THE VENTING OF EACH GAS FIRE BOILER SHALL BE PVE PIPE AND SHALL BE LOCATED AWAY FROM THE MAIN ENTRIES OF THE BUILDING, AND WINDOW LOCATIONS. COORDINATE THE
- EXACT LOCATION WITH THE OWNER AND ARCHITECT THE CONTRACTOR SHALL PROVIDE A FLOOR DRAIN BY THE GAS FIRED BOILER FOR THE UNIT CONDESATE LINES.
- DUCTWORK
- ALL DUCTWORK SHALL BE 26 GA. MINUMUM RIGID DUCT AND SHALL BE FULL SEALED AT
- EACH JOINT LOCATION. NO FLEXIBLE DUCT IS ALLOWED WITHIN THE INSTALLATION ALL DUCTWORK IN CEILINGS OF UNHEATED ROOM OR UNDER SLAB SHALL BE INSULATED DUCT WORK. ALL DUCTWORK WITHIN THE HEATING ENVELOPE OF THE STRUCTURE DOES NOT REQUIRED TO BE INSULATED, UNLESS SPECIFICALLY NOTED.
- ALL DUCTWORK SHALL BE IN THE SPACE ALLOCATED, AND SHALL NOT BE DROPPED BELOW FLOOR JOISTS, UNLESS NOTED ON DRAWINGS, OR PREVIOUSLY APPROVED BY THE ARCHITECT



EXHAUST VENT DETAIL

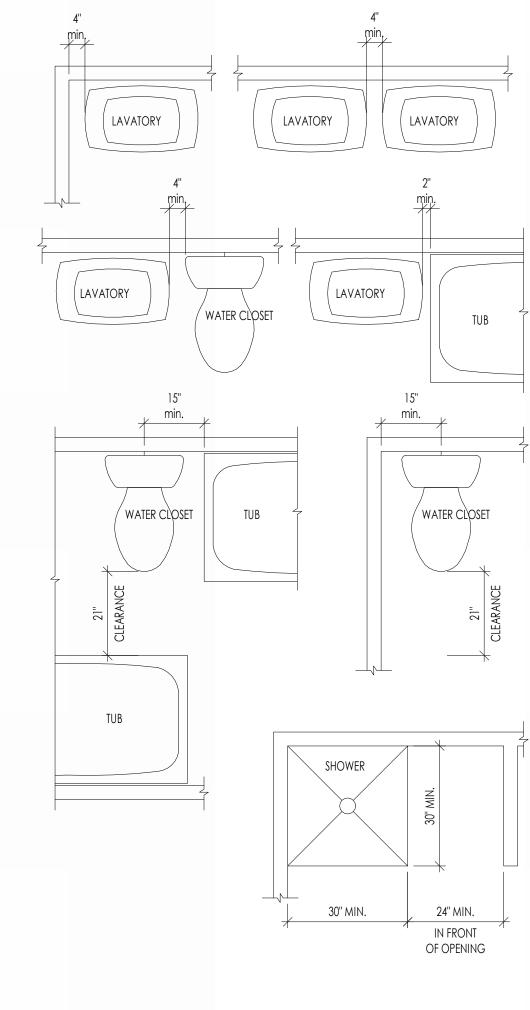
1 1/2" = 1'-0"

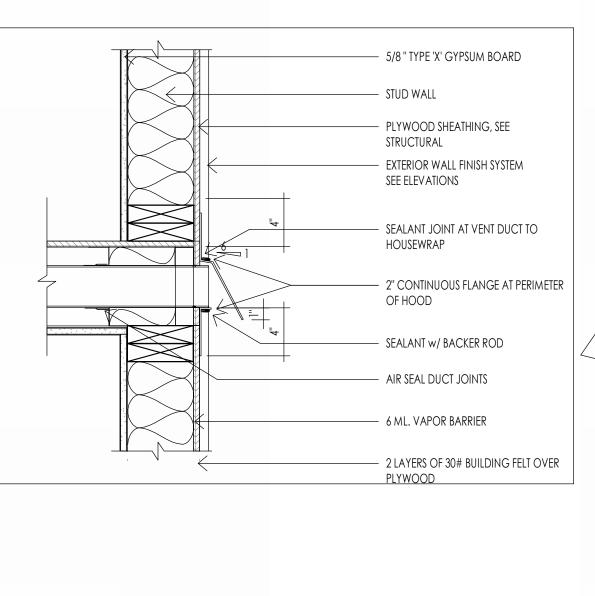
9 INCH MIN. WIDE SELF-ADHERED SELF-HEALING RUBBERIZED ELASTOMERIC ASPHALT FLASHING MEMBRANE INSTALLED A MIN. 9 INCHES BEYOND ROUGH OPENING -DO NOT OVERLAP THE TOP OF SILL FRAMING -ADHERE ONLY AT TOP EDGE. LEAVE UNATTACHED AT BOTTOM SO THAT THE PAPER CAN BE INSTALLED

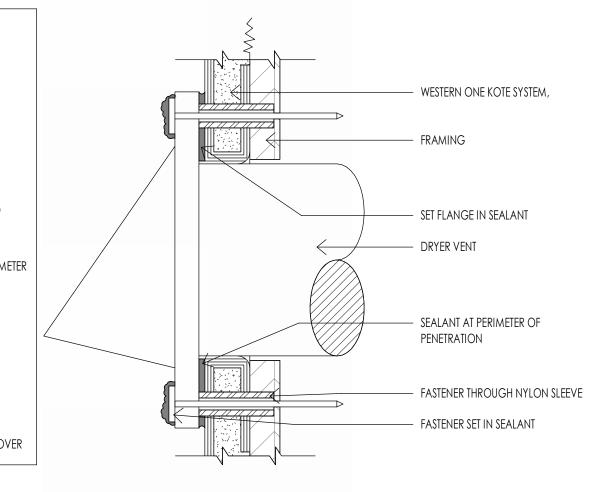
26 GA. MIN. GALV. SHEET METAL VENT MUST BE INSTALLED OVER SILL FLASHING. INSTALL JAMB FLASHING

OVER OR UNDER NAILING FLANGE. SET VENT IN A CONTINUOUS BED OF SEALANT.

- JAMB FLASHING 9 INCH MIN. WIDE SELF ADHERED SELF-HEALING RUBBERIZED ELASTOMERIC ASPHALT FLASHING MEMBRANE.
- FLASHING INSTALLED OVER AND BELOW SILL FLASHING AND ABOVE TOP OF FUTURE HEAD FLASHING. -DO NOT FASTEN THE BOTTOM 9 INCHES OF THE JAMB FLASHING SO THE WEATHER-RESISTANT BARRIER APPLIED LATER MAY BE SLIPPED UNDERNEATH THE FLASHING IN A WEATHERBOARD FASHION.
- APPLY SELF-ADHERED SELF-HEALING RUBBERIZED ELASTOMERIC ASPHALT FLASHING MEMBRANE OVER DRYER VENT FLANGE. EXTEND HEAD FLASHING BEYOND EACH JAMB FLASHING.









Architecture

Architecture Interior Design Landscape Architecture Land Planning Construction Managemen

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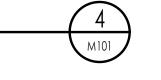
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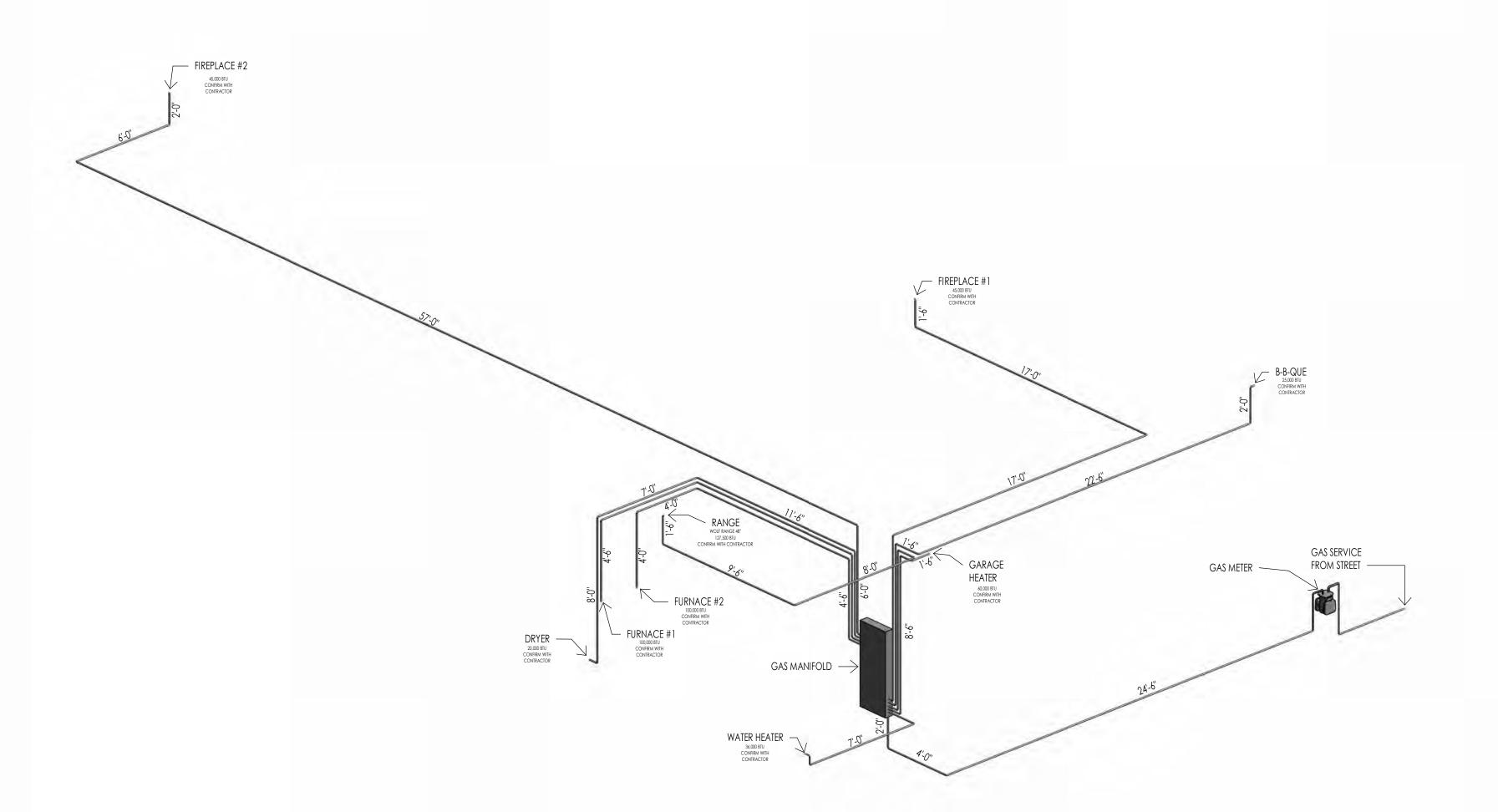
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MINIMUM PLUMBING FIXTURE CLEARANCES WALL EXHAUST VENT

TYPICAL DRYER VENT (SHOWN WITH STUCCO)





WARM SPRINGS RESIDENCE

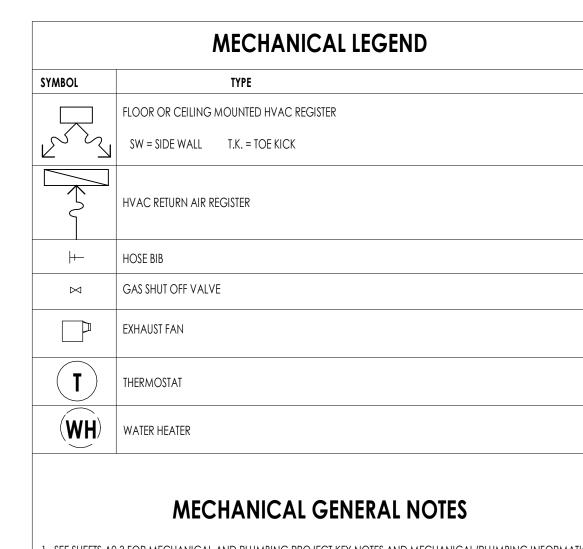
PROJECT NC22023.32

**REVISIONS:** 

SHEET TITLE:
MECHANICAL GENERAL

GAS SCHEMATIC

LEVEL 1 - MECHANICAL



SEE SHEETS A0.3 FOR MECHANICAL AND PLUMBING PROJECT KEY NOTES AND MECHANICAL/PLUMBING INFORMATION.
 MECHANICAL AND PLUMBING LAYOUTS ARE SHOWN IN SCHEMATIC. THE PLUMBING AND MECHANICAL
CONTRACTORS ARE RESPONSIBLE TO DESIGN AND SIZE EQUIPMENT CAPACITY, PIPE AND DUCT LINES, PLUMBING LINES
AND ALL OTHER EQUIPMENT AS PER NATIONAL, STATE AND LOCAL CODES AND AS PER THE GENERAL NOTE REQUIREMENTS.

3. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT AND INSTALLATION OF ALL RELATED ITEMS WITH EXISTING CONDITIONS AND ALL OTHER TRADES.

4. COORDINATE WITH OWNER, INTERIOR DESIGNER AND/OR PLANS FOR FIXTURE SCHEDULES, STYLES, FINISHES, ETC.5. ALL REGISTERS AT LOWER LEVEL TO BE CEILING MOUNT UNLESS OTHERWISE NOTED.

6. COORDINATE BETWEEN MECH. SUB AND ELECTRICAL SUB AT PRECONSTRUCTION MEETING FOR DUCT LOCATIONS AND

7. ALL PLUMBING FIXTURE/MECHANICAL EQUIPMENT SELECTIONS TO BE APPROVED BY OWNER/DEVELOPER.

8. PROVIDE REQUIRED COMBUSTION AIR VENT DUCTS AT CEILING FOR WATER HEATER AND FURNACE AS REQUIRED BY BLDG. CODES AND MANUFACTURER.
9. MECHANICAL DESIGN SHOULD BE IN ACCORDANCE WITH 2006 INTERNATIONAL RESIDENTIAL CODE.

10. DUCT PENETRATIONS IN GARAGES SHALL BE 26 GAUGE SHEET METAL MIN. AND SHALL HAVE NO OPENINGS INTO THE

11. FLUES SHALL NOT PENETRATE THE ROOF WITHIN 4'-0" OF PARTY WALLS.

RECESSED CAN LOCATIONS.

12. RADON: THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE RADON TESTING AND APPLY AN APPROPRIATE MITIGATION SYSTEM.

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EXHAUST TO EXTERIOR COORDINATE WITH GRADING
FOR LOCATION OF — SHUT OFF GAS VALVE EXHAUST ABOVE GRADE > PROJECTION OF FURNACES BELOW GAS VALVE COORDINATE TRUNK LINE FURNACE 2 W/TRUSS STRUCTURAL OWNER SUITE **GREAT ROOM** OFFICE 202 SHUT OFF GAS VALVE GAS FIREPLACE -DIRECT VENT UP ----GA\$ VALVE NOTES: HH1. ALL REGISTERS ARE ON FLOOR UNLESS NOTED OTHERWISE. 2. GRILLS TO BE MAXIMUM 6" OFF FLOOR

WARM SPRINGS RESIDENCE

PROJECT NC22023.32
DATE: 2023.06.30

DATE: 2023.06.30

REVISIONS:

SHEET TITLE:
MECHANICAL PLAN

SHEET NUMBER:

M102

LEVEL 2 - MECHANICAL

1/4" = 1'-0"

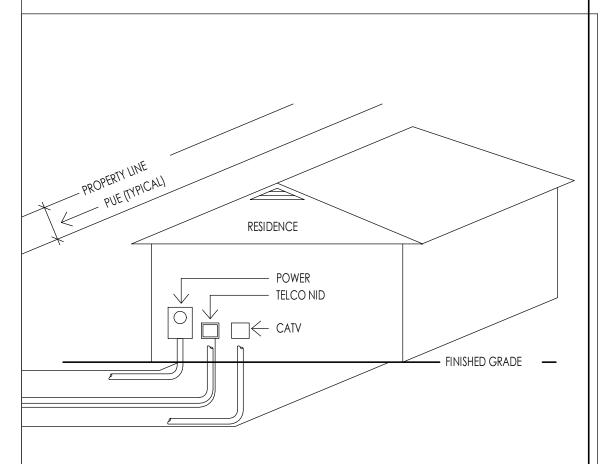
## **ELECTRICAL GENERAL NOTES**

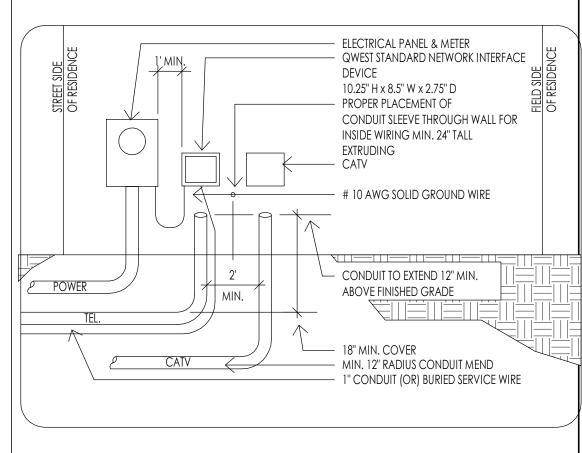
- ALL WORK DONE BY ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE CURRENT ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODE REGULATIONS AND AMENDMENTS. THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMITY WITH THESE REGULATIONS WHETHER OR NOT SUCH WORK IS SPECIFICALLY SHOWN ON THE DRAWINGS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL FEEDERS, PANELS BOARDS, RELAY BRANCH CIRCUIT WIRING, CONDUITS, WIRE, METER BASES, COMPLETE WIRING FOR MOTORS, EXHAUST FANS, LINE VOLTAGE CONNECTIONS FOR HVAC EQUIPMENT SPECIALTY LIGHTING FIXTURES, OUTLET BOXES, COVER PLATES, WALL SWITCHES, FIXTURES RECEPTACLES, ETC.
- 3. ALL DRAWINGS INDICATE LOCATIONS AS DIAGRAMMATIC. LOCATIONS SHALL BE PER APPROPRIATE CODES AND OWNER. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- THE CONTRACTOR SHALL SET ALL THE BOXES AND NOTIFY THE ARCHITECT AND OWNER OF PLACEMENT OF BOXES. THE ARCHITECT, OWNER AND INTERIOR DESIGNER SHALL WALK THE HOUSE WITH THE ELECTRICAL CONTRACTOR AND SHALL VERIFY ALL THE LOCATIONS. THIS SHALL BE DONE PRIOR TO ANY WIRE BEING PULLED.
- IF WIRE IS PULLED, AND BOXES ARE REQUIRED TO BE MOVED, ALL COSTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND NOT THE OWNER/ DESIGN TEAM.
- 4. ELECTRICAL SERVICE CAPACITY AND SIZE SHALL BE COMPUTED BY METHOD INDICATED IN THE NATIONAL ELECTRICAL CODE. PANELS OR CABINETS ENCLOSING FUSES, CIRCUIT BREAKERS, SWITCHES OR OTHER ELECTRICAL SERVICE EQUIPMENT SHALL BE IN AN INCONSPICUOUS ACCESSIBLE AND PROTECTED LOCATION. ELECTRICAL PANEL CLEARANCE TO BE MINIMUM 30" WIDTH AND 6'-0" HEAD ROOM. ELECTRICAL TO COMPLY WITH N.E.C. 110-16. ELECTRICAL METER BASE SHALL BE LOCATED IN AN AREA THAT IS PROTECTED FROM OUTSIDE WEATHER.
- 5. ALL RECEPTACLES LOCATED WITH THE FOLLOWING CONDITIONS TO BE GFCI PROTECTED: ALL KITCHEN COUNTERS, IN BATHROOMS, OUTSIDE AT GRADE LEVEL, UNFINISHED BASEMENTS, AND IN GARAGES.

  GARAGE RECEPTACLES TO BE 18" ABOVE FINISHED FLOOR.
- 6. ALL SWITCHES, RECEPTACLES, TELEPHONE JACKS AND CATV JACKS TO BE "LEVITON" 5601 ROCKER SERIES IN WHITE. DIMMER SWITCHES TO BE "LUTRON" DIVA ROCKER SERIES IN WHITE. HEIGHT OF LIGHT SWITCHES FROM FINISHED FLOOR TO TOP OF SWITCH TO BE 48" TYPICAL UNLESS NOTED OTHERWISE. THE MOUNTING FROM THE FINISH FLOOR TO THE CENTER OF OUTLETS INCLUDING TELEPHONE, CATV, ETC. SHALL BE 12" TYPICAL. AT DESKS AND OTHER SURFACES THE OUTLETS SHALL BE 10" TO CENTERLINE ABOVE SURFACE. SWITCHES, OUTLETS, TELEPHONE, CATV, ETC. LOCATIONS SHALL BE APPROVED PRIOR TO COMMENCEMENT OF WIRING.
- 7. UNLESS NOTED OTHERWISE LOCATE AND INSTALL ONE (1) GFCI WEATHER PROTECTED RECEPTACLE AT GRADE LEVEL AND OUTSIDE AT SOFFIT AT EACH EXTERIOR DOOR WHETHER INDICATED ON DRAWINGS OR NOT.
- PLEASE REFER TO THE ELECTRICAL DRAWINGS FOR ADDITIONAL OUTLETS AT SOFFITS.
- 8. ALL FIXTURES SHALL HAVE A U.L. LABEL LISTING. IF NOT U.L. LISTED FIXTURE SHALL NOT BE USED. ALL RECESS DOWN LIGHTS TO BE THERMAL RATED, AND ALL CAST IN PLACE FIXTURES TO BE INCLUDED IN BASE BID. ALL RECESSED DOWN LIGHTS TO BE INCLUDED IN BASE BID WITH TRIM RINGS AS SELECTED BY DESIGNER OR OWNER. ALL LIGHTS IN CLOSETS SHALL MEET N.E.C. 410.8 REQUIREMENTS. ALL LIGHTS LOCATED IN WET OR DAMP LOCATIONS SHALL MEET N.E.C. 410.4 REQUIREMENTS.
- 9. SMOKE DETECTORS TO BE HARD WIRED TO BUILDING CIRCUIT WITH BATTERY BACK UP. PROVIDE SMOKE DETECTORS AT ALL BUILDING LEVELS, IN ALL BEDROOMS, ACCESS TO ALL BEDROOMS, ETC. (UBC 310.9)
- 10. ELECTRICAL PANEL (PANELBOARD/SWITCHBOARD) MAY NOT BE LOCATED BEHIND A DOOR OR IN A ROOM THAT MAY BE LOCKED AND MUST HAVE PROPER WORKING CLEARANCES. PLEASE REFER TO THE ELECTRICAL DRAWINGS FOR THE LOCATIONS FOR ALL ELECTRICAL PANELS. IF THE PANEL BOARD NEEDS TO BE RELOCATED, PLEASE CONSULT THE OWNER AND OR ARCHITECT PRIOR TO MOVING.
- SMALL WALL SECTIONS 2' OR WIDER (INCLUDES BETWEEN DOORS) REQUIRE AN OUTLET.
   GFCI PROTECTION MUST BE PROVIDED FOR ANY RECEPTACLE OUTLET IN THE FOLLOWING: A BATHROOM, ANY COUNTERTOP KITCHEN/LAUNDRY, GARAGE OUTLETS MINIMUM 18" ABOVE FINISHED FLOOR HEIGHT,
- 13. A RECEPTACLE OUTLET MUST BE PROVIDED AT EACH SECTION OF KITCHEN COUNTERTOP 12" OR WIDER: THERE MUST ALSO BE A MINIMUM OF TWO (2) DEDICATED COUNTERTOP CIRCUITS.

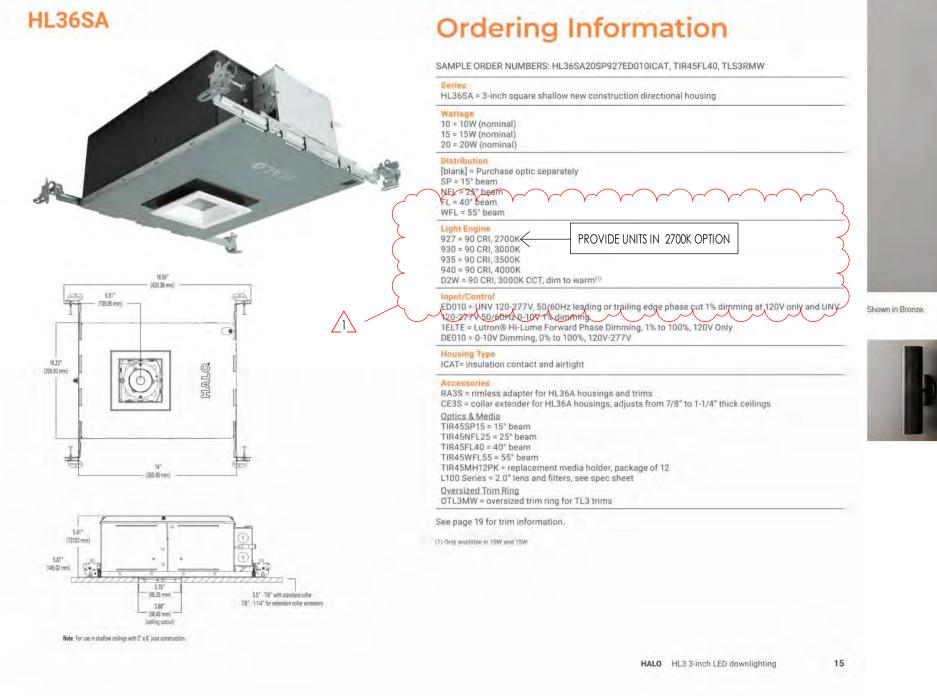
OUTSIDE FRONT AND REAR OUTLETS MUST HAVE WATERPROOF COVERPLATE.

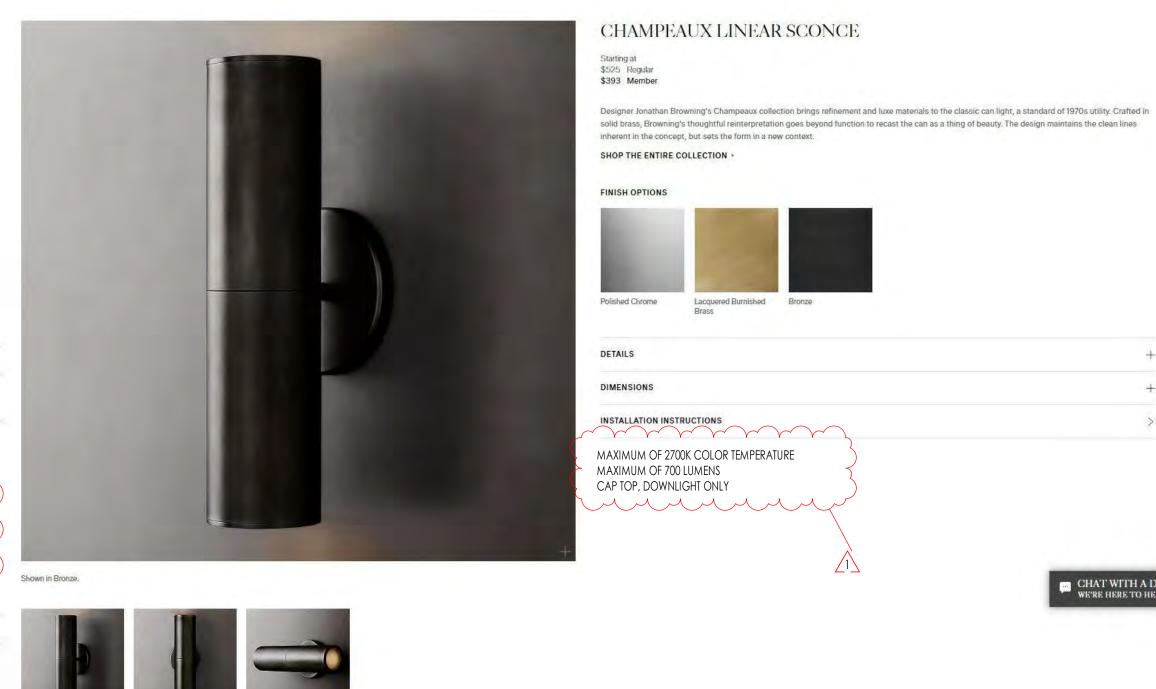
- 14. A SWITCH CONTROLLED LIGHT MUST BE PROVIDED AT HALLWAYS, STAIRWAYS, EXITS, AND EACH
- 15. A HARD-WIRED WITH BATTERY BACKUP SMOKE DETECTOR MUST BE INSTALLED IN ALL BEDROOMS (NEW AND EXISTING) IN THE ACCESS AREA TO ALL BEDROOMS, AND AT LEAST ONE PER FLOOR. TWO (2) FOOT CHANGES IN CEILING HEIGHT ALSO REQUIRE AN ADDITIONAL SMOKE DETECTOR. ALARM SOUND MUST BE AUDIBLE IN ALL AREAS OF HOME.
- 16. WHEN BEDROOMS OCCUR ON 2ND STORIES, THE DETECTOR SHOULD BE LOCATED AT THE TOP OF THE STAIRWAY.
- 17. KITCHEN OUTLETS REQUIRED TO BE GFCI PROTECTED, NOT MORE THAN 4'-0" APART.
- 18. CLOSET LIGHT FIXTURES MIN. 12" CLEARANCE TO SHELF (LATERAL MEASURED)





TYPICAL DRY UTILITY LOCATION DETAIL





L-1 RECESSED EXTERIOR SOFFIT LIGHT

L-2 DECORATIVE EXTERIOR WALL SCONCE

RH MODERN SKI HOUSE BEACH HOUSE BABY & CHILD TEEN RH INTERIOR DESIGN GALLERIES



SHOP ROOMS Q SIGN IN CART 2

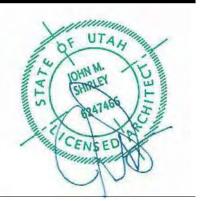
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SPRINGS RESIDENCE

PROJECT NC22023.32

REVISIONS:

1 04-27-2023 PER CITY

SHEET TITLE:
ELECTRICAL GENERAL
NOTES

SHEET

EET NUMBER:

1 Date: 7/14/2023 4:49:35 P

	ELECTRICAL LEGEND
SYMBOL	DESCRIPTION
Ş 	SINGLE POLE TOGGLE SWITCH
Ş <sup>3</sup>	THREE WAY TOGGLE SWITCH
\$ <sup>4</sup>	FOUR WAY TOGGLE SWITCH
Ş <sup>G</sup>	GARAGE DOOR OPENER
\$ <sup>D</sup>	DIMMER TOGGLE SWITCH
<u></u>	110 V DUPLEX OUTLET ON AN (AFP) ARC FAULT PROTECTED CIRCUIT
GFI ————————————————————————————————————	110 V GROUND FAULT INTERRUPTER
₩ <sup>P</sup>	110 V WATERPROOF GFI OUTLET
<u></u>	220 V OUTLET
#	QUADRUPLEX OUTLET
	110 V FLOOR DUPLEX OUTLET
S	110 V SMOKE DETECTOR W/BATT BACK-UP
<b>©</b>	CARBON MONOXIDE DETECTOR
\$	EXHAUST FAN
$\square$	EXHAUST FAN WITH LIGHT FIXTURE
R	4" LED RECESSED CAN (FIXTURE & TRIM PER SCHEDULE)
<u>C</u>	4" LED RECESSED CAN (CLOSET-FIXTURE & TRIM PER SCHEDULE)
W	RECESSED CAN (WET LOCATION-FIXTURE & TRIM PER SCHEDULE)
	CEILING MOUNT FIXTURE
$\begin{array}{c c} & & & \\ \hline & & & \\ \hline \Delta & & \Delta & \\ \hline \end{array}$	TRACK LIGHTING
<u>Q</u>	WALL MOUNT FIXTURE
	2X2 OR 2X4 FLUORESCENT CEILING FIXTURE
	FLUORESCENT STRIP LIGHT
+	LED UNDERCOUNTER LIGHTING
G	GARAGE DOOR OPENER
K	KEYLESS ENTRY
В	DOORBELL
Т	TELEPHONE (CAT 5E WIRING) SINGLE LINE UNLESS NOTED (NUMBER) DESIGNATES PORT OUTLETS REQUIRED
TV	MULTI-MEDIA NETWORK OUTLET (CAT 5E WIRE) W/(4) PORT OUTLET
TD	STRUCTURED WIRING (FUTURE SMART WIRING) IE (2) RG6 QUAD SHIELD, (3) CAT 6E WIRE - FOR CABLE TV, VIDEO, SATELITTE, ETC. (6) PORT OUTLET
$\oplus$	GARBAGE DISPOSAL
-ф-	LOW VOLTAGE RECESSED CAN
[ <u>-</u> 1]	RECESSED EXTERIOR SOFFIT LIGHT - SEE SPECS ON SHEET E101
<u>[-2]</u>	DECORATIVE EXTERIOR WALL SCONCE - SEE SPECS ON SHEET E101
<u> </u>	MOTOR COURT EXTERIOR LIGHTING - SEE SPECS ON SHEET E101
LDP	LIGHTING DIGITAL PAD
<u>±</u>	DOOR BELL SWITCH
	WALL MOUNTED BED LIGHT
	TARE MODIFIED BED EIOHI
	·

## **ELECTRICAL GENERAL NOTES**

1. SEE SPECS FOR ELECTRICAL INFORMATION.

2. ELECTRICAL LAYOUTS ARE SHOWN IN SCHEMATIC. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT

3. COORDINATE WITH OWNER, INTERIOR DESIGNER AND/OR PLANS FOR FIXTURE SCHEDULES, STYLES, FINISHES, ETC.

4. ALL WORK TO COMPLY WITH 2014 N.E.C. CODES AND 2015 I.R.C. CODES.

5. CENTER OF ALL OUTLETS TO BE 18" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. CENTER OF OUTLETS OVER CABINETS, VANITIES, ETC. TO BE 12" ABOVE FINISH COUNTER HEIGHT UNLESS NOTED OTHERWISE.

6. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL ELECTRICAL FIXTURES, SWITCHES, ETC. WITH OWNER AND DESIGNER PRIOR TO WIRING.

7. PROVIDE SLOPED RECESSED CANS FOR SLOPED CEILING APPLICATIONS & THERMAL PROTECTION CANS WHERE IN CONTACT WITH INSULATION AS REQUIRED.

8. CONTRACTOR TO PROVIDE ELECTRICAL SERVICE TO MECHANICAL EQUIPMENT AS REQUIRED.

THE ENTIRE BRANCH CIRCUIT.

10. PROVIDE A U-FER GROUND. AN ELECTRODE ENCASED BY A LEAST 2" OF CONCRETE SHALL BE LOCATED NEAR THE

BOTTOM OF THE CONCRETE FOUNDATION SYSTEM AND SHALL BE IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF BARE ELECTRICALLY CONDUCTIVE ROD AT LEAST 1/2 INCH IN DIAMETER OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG. (I.R.C. E3508.1.2 AND N.E.C. 250.50)

11. THE CONTRACTOR SHALL VERIFY OUTLET LOCATIONS AND VOLTAGE REQUIREMENTS AS PER APPLIANCE

13. SMOKE AND/OR CARBON MONOXIDE DETECTORS ARE TO BE HARD WIRED TOGETHER IN SERIES WITH BATTERY

15. ALL 125V 15 AND 20 AMP RECEPTACLES WITHIN DWELLING UNITS MUST BE TAMPER PROOF.

AND INSTALLATION OF ALL RELATED ITEMS WITH EXISTING CONDITIONS AND RELATED TRADES.

9. ALL BRANCH CIRCUITS BE PROTECTED BY AN ARCH-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF

SPECIFICATIONS.

12. STRUCTURED WIRE MEDIA PANEL TO BE "LEVITON" (O.A.E.) AND INCLUDE:

A/C POWER MODULE, CAT 5 VOICE AND DATA MODULES, 10/100 MPS SATA HUB, CATV BOOSTER AND AUDIO / VIDEO CONTROL MODULES.

BACKUP AS PER CODE REQUIRMENTS. COMBINATION UNITS ARE PERMITTED AS APPROVED. 14. ALL EXTERIOR ELECTRICAL OUTLETS TO HAVE WEATHERPROOF COVERS.

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Architecture

Interior Design

Land Planning

LEVEL 2 - ELECTRICAL

SHEET TITLE:
ELECTRICAL PLANS

**REVISIONS:** 

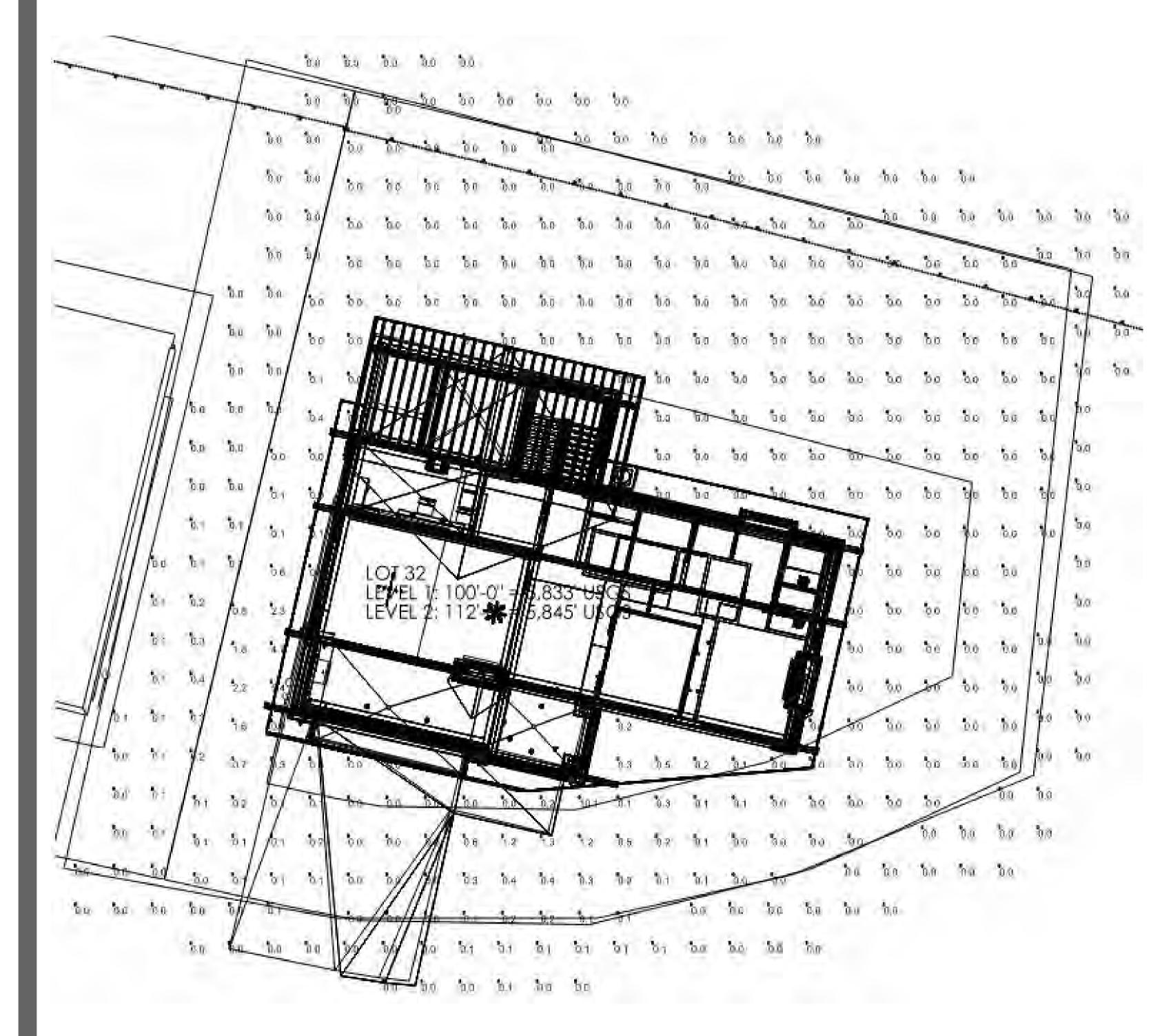
RESIDENCE

**SPRINGS** 

PROJECT NC22023.32

1 04-27-2023 PER CITY

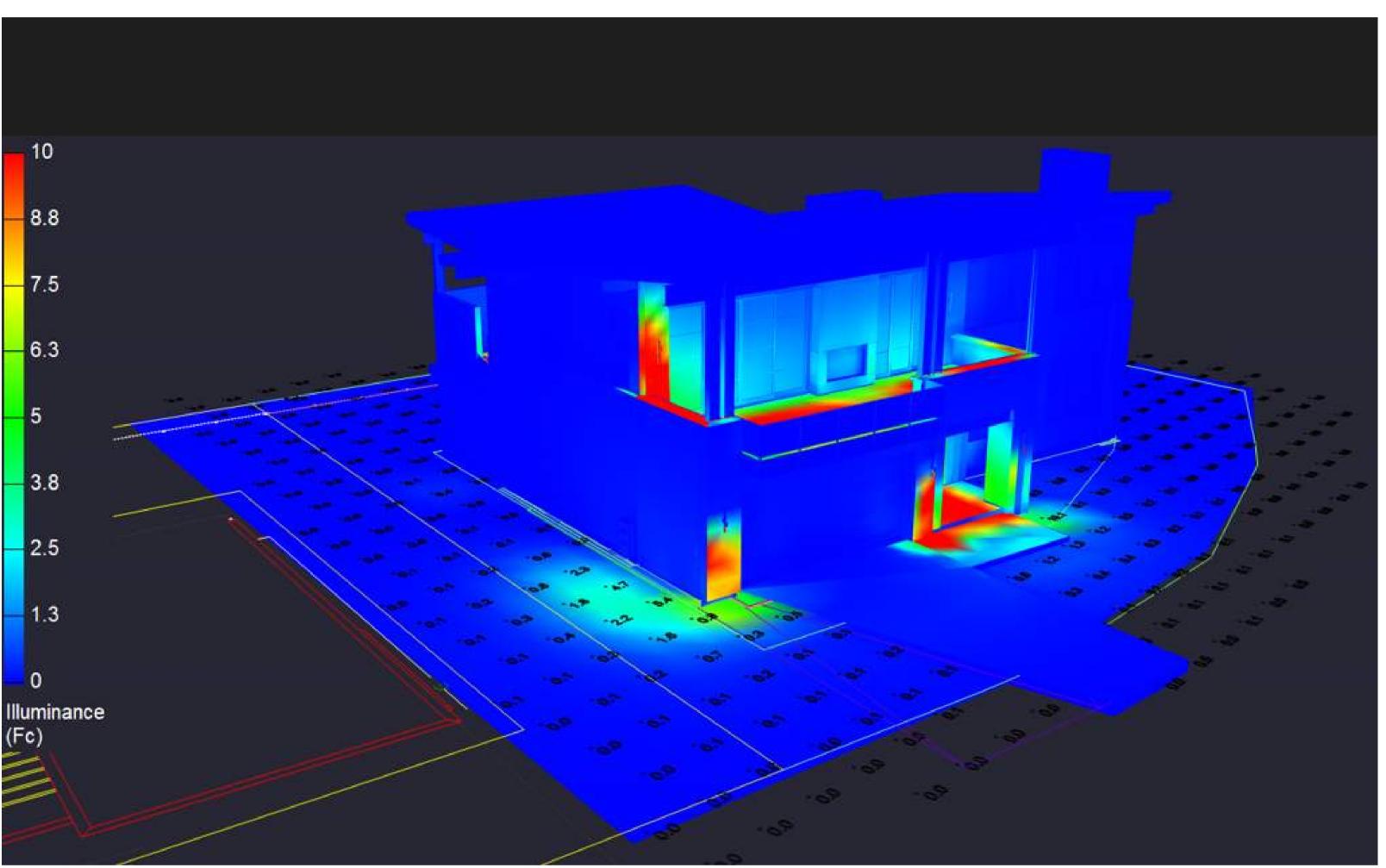
2023.06.30



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Tag	Qty	LLF	Luminaire	Luminaire	Total				
			Lumens	Watts	Watts				
L1	8	0.810	1255	14.2	113.6				
L2	9	0.810	590	9.8	88.2				

Calculation Summar	Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
PROPERTY	Illuminance	Fc	0.17	10.1	0.0	N.A.	N.A.	
TRESPASS	Illuminance	Fc	0.02	0.4	0.0	N.A.	N.A.	

POINT-BY-POINT CALCUATION AND SUMMARIES (5 FOOT GRID)



PSEUDO RENDERING WITH ILLUMINANCE SCALE







## WARM SPRINGS RESIDENCE #32

160 BALD MOUNTAIN ROAD KETCHUM, IDAHO 83340

2023.06.30







and express written permission from THINK Architecture, Inc.

WARM SPRINGS RESIDENCE #32

160 BALD MOUNTAIN ROAD KETCHUM, IDAHO 83340 MATERIAL BOARD

D202











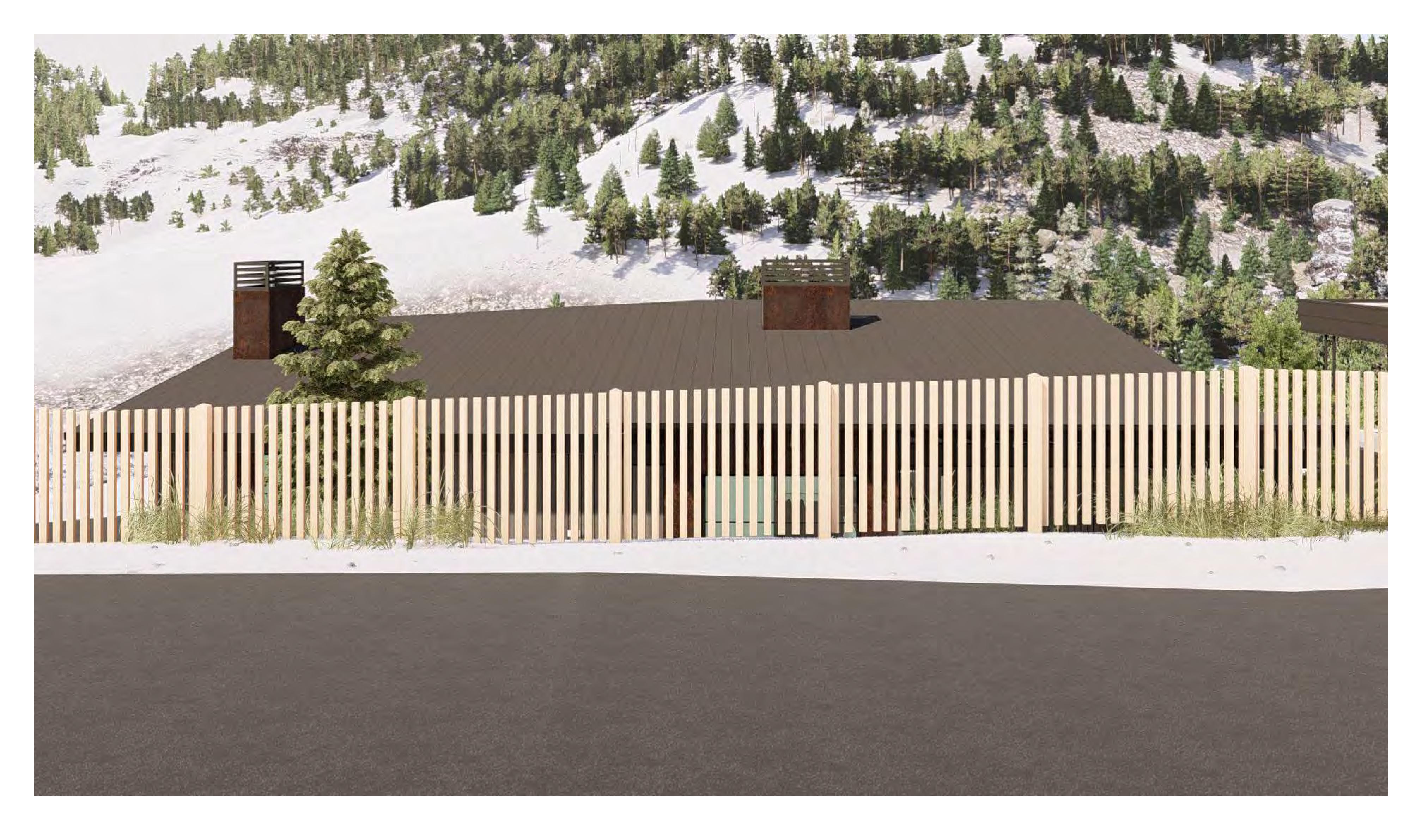














**EXTERIOR VIEWS** 







160 BALD MOUNTAIN ROAD KETCHUM, IDAHO 83340 EXTERIOR VIEWS



