

#### **ALPINE CITY PLANNING COMMISSION MEETING**

NOTICE is hereby given that the PLANNING COMMISSION of Alpine City, Utah will hold a Public Meeting on Tuesday, March 16, 2021 at 7:00 pm at City Hall, 20 North Main Street, Alpine, Utah.

The public may attend the meeting in person or view the meeting via the **Alpine City YouTube Channel**. A direct link to the channel can be found on the home page of the Alpine City website: **alpinecity.org** 

#### I. GENERAL BUSINESS

A. Welcome and Roll Call: Jane Griener
B. Prayer/Opening Comments: Sylvia Christiansen
C. Pledge of Allegiance: Troy Slade

#### II. PUBLIC COMMENT

Any person wishing to comment on any item not on the agenda may address the Planning Commission. Comments may be submitted to admin@alpinecity.org by 5:00 PM the day of the meeting or given in person at the meeting.

#### **III. ACTION ITEMS**

- A. Extension of Non-Conforming Building 1031 E. 300 N. Carson Home Chris Hill of Iron Ridge Const. The Planning Commission will review the proposed addition and make a recommendation to the City Council.
- Final Plat Ridge at Alpine Phase 5
   The Planning Commission will review the proposed plat and make a recommendation to the City Council.
- C. Public Hearing Ordinance 2021-08 Large Animals
  The Planning Commission will review the proposed ordinance and make a recommendation to the City Council.

#### IV. COMMUNICATIONS

V. APPROVAL OF PLANNING COMMISSION MINUTES: February 16, 2021

#### **ADJOURN**

Chair Jane Griener March 12, 2021

**THE PUBLIC IS INVITED TO ATTEND ALL PLANNING COMMISSION MEETINGS.** If you need a special accommodation to participate in the meeting, please call the City Recorder's Office at 801-756-6347 ext. 5.

CERTIFICATION OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was posted at Alpine City Hall, 20 North Main, Alpine, UT. It was also sent by e-mail to The Daily Herald located in Provo, UT a local newspaper circulated in Alpine, UT. This agenda is also available on the City's web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html.

#### PUBLIC MEETING AND PUBLIC HEARING ETIQUETTE

#### Please remember all public meetings and public hearings are now recorded.

- All comments **must** be recognized by the Chairperson and addressed through the microphone.
- When speaking to the Planning Commission, please stand, speak slowly and clearly into the microphone, and state your name and address for the recorded record.
- Be respectful to others and refrain from disruptions during the meeting. Please refrain from conversation with others in the audience as the microphones are very sensitive and can pick up whispers in the back of the room.
- Keep comments constructive and not disruptive.
- Avoid verbal approval or dissatisfaction of the ongoing discussion (i.e., booing or applauding).
- Exhibits (photos, petitions, etc.) given to the City become the property of the City.
- Please silence all cellular phones, beepers, pagers or other noise making devices.
- Be considerate of others who wish to speak by limiting your comments to a reasonable length, and avoiding
  repetition of what has already been said. Individuals may be limited to two minutes and group representatives
  may be limited to five minutes.
- Refrain from congregating near the doors or in the lobby area outside the council room to talk as it can be very
  noisy and disruptive. If you must carry on conversation in this area, please be as quiet as possible. (The doors
  must remain open during a public meeting/hearing.)

#### **Public Hearing vs. Public Meeting**

If the meeting is a **public hearing**, the public may participate during that time and may present opinions and evidence for the issue for which the hearing is being held. In a public hearing there may be some restrictions on participation such as time limits.

Anyone can observe a **public meeting**, but there is no right to speak or be heard there - the public participates in presenting opinions and evidence at the pleasure of the body conducting the meeting.

#### ALPINE PLANNING COMMISSION AGENDA

**SUBJECT:** Extension of Non-Conforming Building – 1031 E. 300 N.

FOR CONSIDERATION ON: 16 March 2021

PETITIONER: Chris Hill Of Iron Ridge Construction, Representing the

**Carson Family** 

**ACTION REQUESTED BY PETITIONER:** Review and approve the proposed

addition.

#### **BACKGROUND INFORMATION:**

The Carson family would like to add a new front porch on their existing home. The old porch would be removed and replaced with the new porch. Extension of a non-conforming building requires a recommendation from Planning Commission and approval by City Council (see Article 3.22 of the Development Code).

The Carson home is an existing non-conforming building which does not meet setback requirements of the CR-40,000 zone. Minimum side setback for the zone is 12 feet, and the home has a setback of 10 feet 4 inches. Plans show the proposed porch within the 12-foot side setback.

According to 3.22.070.1 of the Alpine City Development Code an addition or extension of a non-conforming building must "...conform with all existing setback and location requirements". The proposed addition appears to meet all other requirements outlined in code.

Staff recommends that the proposed extension be approved with the condition that the proposed porch can meet the current setbacks of the CR-40,000 zone.

#### STAFF RECOMMENDATION:

Approve the proposed extension with the condition that it meet setback requirements of the zone.

#### **SAMPLE MOTION TO APPROVE:**

I motion to recommend that Ordinance 2021-06 be approved with the condition that the proposed porch meet all setback requirements of the CR-40,000 zone.

#### SAMPLE MOTION TO TABLE/DENY:

I motion that Ordinance 2021-06 be tabled/denied based on the following:

• \*\*\*Insert Finding\*\*\*

3/12/2021 Print Preview

#### 3.22.070 Extension (Enlargement) And Reconstruction Of Non-Conforming Buildings; Conditions

A non-conforming building or structure or a building housing a non-conforming use may be extended or enlarged or reconstructed, subject to the prior approval by the City Council, after recommendation of the Planning Commission and such compliance with the following:

- 1. The proposed extension or replacement shall be located entirely on the same lot or parcel as the present non-conforming structure and will conform with all existing setback and location requirements.
- 2. The applicant shall submit a detail site plan showing the location of existing and proposed structures on the site and in the vicinity, existing lot boundaries, roads, driveways, parking areas, utilities and other significant features on the site and in the immediate vicinity.
- 3. A finding made by a majority vote of the Council that:
  - a. The proposed enlargement or extension will not significantly alter the character of the building or use or its impact upon the area.
  - b. The building or use, if extended, will not have the effect of diminishing the value of property or the quality of living environment of adjacent properties.
  - c. The proposed enlargement will not significantly increase the number of vehicles or pedestrians, or result in the establishment or increase of a safety hazard to the area.
  - d. The proposed enlargement will not result in the establishment of a condition incompatible with the neighborhood area and the stated objective of the zone in which it is located.

The Council may attach such conditions to its approval as are necessary to adequately protect the property and uses in the surrounding territory and the intent of the zone, including but not limited to, the providing of off-street parking access ways, landscaping features and additional setback of structures.

(Amended by Ordinance 2015-03 on 03/24/15)





# ARCHITECTURAL C-1.0 SWPPP/SITE PLAN A-1.0 MAIN LEVEL FLOOR PLAN A-2.0 FRONT/RIGHT ELEVATIONS A-2.1 BACK/LEFT ELEVATIONS A-3.0 ROOF PLAN A-4.0 SECTION PLAN ELECTRICAL E-1.0 MAIN LEVEL ELECTRICAL PLAN STRUCTURAL SI.0 STRUCTURAL PLAN SN.1 STRUCTURAL DETAILS SD.1 STRUCTURAL DETAILS

#### SWPPP NOTES

ALL STORM WATER AND DIRT WILL BE KEPT ON SITE DURING CONSTRUCTION UNTIL FINAL LANDSCAPING IS DONE. THE SITE MUST BE GRADED SO THAT WHEN FINAL LANDSCAPING IS COMPLETE, ALL STORM AND IRRIGATION WATER WILL REMAIN ON SITE.

STREET, CURB, AND GUTTER WILL BE INSPECTED AND CLEANED OF ALL MUD AND DIRT AT THE END OF EVERY DAY. STREET SWEEP AS NEEDED. GRAVEL BAGS TO BE PLACED AND MAINTAINED AROUND ANY STORM DRAIN INLET ADJACENT TO OR IMMEDIATELY DOWNSTREAM FROM THE SITE DURING CONSTRUCTION.

PROVIDE A 3" SEDIMENT CUTBACK BEHIND CURB.

BERMS OR SWALES WILL BE REQUIRED ALONG PROPERTY LINES <u>OF A SUFFICIENT SIZE</u> TO PREVENT STORM WATER FLOW ONTO ADJACENT LOTS. FINAL GRADING SHALL BLEND WITH ADJACENT LOTS.

A LINED CONCRETE WASHOUT AREA MUST BE PROVIDED AT THE SITE FOR ALL CONCRETE WORK. WASHOUT INTO THE FOUNDATION OR ON THE GROUND IS PROHIBITED.

#### SITE DRAINAGE NOTES:

THE FOLLOWING PRECAUTIONS SHALL BE TAKEN TO HELP PREVENT WETTING OF THE FOUNDATION SOILS:

1. ADEQUATE COMPACTION OF BACKFILL SOILS AGAINST THE FOUNDATION SHOULD BE PROVIDED (IE: A MINIMUM OF 90% OF ASTM D 1557). WATER CONSOLIDATION METHODS SHOULD NOT BE USED.

2. THE GROUND SURFACE SHOULD BE GRADED TO DRAIN AWAY FROM THE STRUCTURE IN ALL DIRECTIONS. PROVIDE AT LEAST A MINIMUM SLOPE OF 6" WITHIN THE FIRST 10'-0" AS REREQUIRED BY R401.3.

3. ROOF RUNOFF SHOULD BE COLLECTED IN RAIN GUTTERS WITH DOWN-SPOUTS DESIGNED TO DISCHARGE WELL OUTSIDE OF THE BACKFILL LIMITS AT LEAST 10 FEET FROM STRUCTURES.

4. SPRINKLER HEADS, IF PLANNED, SHOULD BE AIMED AWAY AND KEPT AT LEAST 2 FEET FROM FOUNDATION WALLS. SPRINKLER SYSTEMS SHOULD BE DESIGNED WITH PROPER SLOPE AND DRAINAGE FOR ALL LINES TO PREVENT BREAKS. BREAKS SHOULD BE PROMPTLY REPAIRED. OVER-WATERING SHOULD BE AVOIDED.

5. LONG-TERM DRAINAGE CONTROL PROVIDED BY LANDSCAPING INCLUDING: PLANTS, GRASS, TREES, SHRUBS & AUTOMATIC SPRINKLERS.

6. THE GRADE ADJACENT TO ALL FOUNDATION WALLS SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET (5%).

7. R401.3 - LANDINGS, RAMPS, PATIOS, PORCHES OR DECKS, ARE REQUIRED TO BE LEVEL OR CAN HAVE A MAXIMUM SLOPE OF "PER FOOT. ALL OTHER IMPERVIOUS SURFACES WITHIN 10 FEET OF THE FOUNDATION WALLS MUST SLOPE A MINIMUM OF 14" PER FOOT. ALL OTHER IMPERVIOUS SURFACES WITHIN 10 FEET OF THE FOUNDATION WALLS MUST SLOPE A MINIMUM OF 14" PER FOOT AWAY FROM WALLS.

8. DIRECT THE DRAINAGE WATER TO AN APPROVED LOCATION OF DISCHARGE AND NOT ONTO NEIGHBORING PROPERTIES OR ACROSS THE CITY SIDEWALKS.

#### GENERAL NOTES:

1. CONSTRUCTION AND BUILDING METHODS, INCLUDING ELECTRICAL, PLUMBING, AND MECHANICAL ITEMS SHALL FOLLOW THE 2015 IRC OR CURRENT CODE, IF A MORE RECENT CODE AS BEEN ADOPTED.

2. SOILS OBSERVATION REPORT IS RECOMMENDED PRIOR TO POURING FOOTINGS.

3. IN THE GARAGE THERE SHALL BE NO LESS THAN ONE RECEPTACLE OUTLET PER VEHICLE STALL. IRC E3901.9

4. DOORS LEADING FROM DWELLINGS TO THE GARAGE SHALL BE 1- "THICK SOLID CORE OR 20 MINUTE RATED. DORRS 38" THICK SOLID CORE OR 20 MINUTE RATED. DORRS SHALL NOT OPEN INTO A SLEEPING ROOM. DOORS SHALL BE EQUIPPED WITH SELF-LATCHING HARDWARE (INCLUDING A SELF-CLOSING DEVICE) IRC R302.5.1

5. BLOWER DOOR TEST IS REQUIRED AT FINAL.

6. FIREPLACE BY OTHERS. FIREPLACE SPECIFICATIONS DEFERRED UNTIL TIME OF INSPECTION.

7. EXTERIOR SIDING SHALL COMPLY WITH R703.3

8. INSPECTIONS ARE REQUIRED FOR ALL STUCCO AND EIFS SYSTEMS. PROVIDE PRODUCT SPECIFICATIONS AND ICBO EVALUATION REPORT (OR EQUAL) FOR ANY STUCCO OR EIFS SYSTEM USED. IRC R109.1.5

9. COLD STORAGE AREAS REQUIRE EITHER A SEALED EXTERIOR DOOR OR THAT THE ROOM BE INSULATED IN ORDER TO MEET THE BUILDING THERMAL REQUIREMENTS OF N1102.

10. ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN KITCHENS, LAUNDRY, AND BEDROOMS REQUIRE ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION. IRC E3902.16

11. EMERGENCY EGRESS REQUIREMENTS: EXTERIOR DOORS OR WINDOWS SHALL HAVE FINISHED SILL HEIGHT WITHIN 44" OF THE FLOOR, (IRC R310.2.3) SHALL HAVE A MINIMUM NET CLEAR OPENABLE AREA OF 5.7 SF (IRC R310.2.1), AND SHAL HAVE A MINIMUM NET CLEAR OPENABLE WIDTH OF 20" AND MIMUM NET CLEAR OPENABLE HEIGHT OF 24" (IRC R310.2.1)

12. TEMPERED GLASS OR APPROVED SAFETY GLAZING IS REQUIRED ON ALL GLASS IN HAZARDOUS LOCATIONS AS STIPULATED IN IRC R308.4.

13. AUTOMATIC GARAGE DOOR OPENERS, IF PROVIDED, SHALL BE TESTED IN ACCORDANCE WITH UL325. IRC R309.4.

14. ASPHALT SHINGLE ROOF MATERIALS REQUIRE AN ICE BARRIER THAT EXTENDS FROM THE EDGE OF THE EAVES TO A POINT NOT LESS THAN 24" INSIDE THE EXTERIOR WALL LINE OF THE BUILDING. IRC R905.1.2

15. WHERE EXTERIOR VERTICAL SIDING IS USED, PROVIDE 24" ON CENTER BLOCKING. IRC TABLE R703.3 (1) FOOTNOTE J

16. ROOMS CONTAINING FUEL-BURNING APPLIANCES SHALL BE LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE OR ENCLOSED IN A ROOM. SHUCH ROOMS SHALL BE SEALED AND INSULATED TO R-VALUE OF R-15/R-19. THE MECHANICAL ROOM REQUIRES A SEALED DOOR. THE COMBUSTION AIR DUCT SHALL BE INSULATED WHERE IT PASSES THROUGH CONDITIONED SPACE TO A MINIMUM OF R-8. IRC N1102.4.4

17. SLAB-ON-GRADE FLOORS WITH A FLOOR SURFACE LESS THAN 12 INCHES BELOW GRADE SHALL BE INSULATED, R10 @ 2 FEET OR R15 @ 2 FEET FOR HEATED SLABS. IECC; SECTION 402.2.7

18. ALL WINDOWS/GLASS WITHIN HAZARDOUS LOCATIONS AS DEFINED BY IRC SECTION 308.4 SHALL BE TEMPERED.

CELL: 801.735.6 egacyHomeDesig

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engineering specs. Contractor
responsible for verifying all
dimensions, conditions, etc, on site
prior to construction or the ordering
of any materials.

ADDITION TO THE CARSON HOME 1031 E 300 N ALPINE, UT

SQUARE FOOTAGE

ENGINEER

**STAMP** 

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#### PLUMBING NOTE:

ALL PLUMBING INSTALLATIONS SHALL COMPLY WITH THE 2018 IRC.

SHOWERHEADS SHALL HAVE A FLOW RATE OF NOT MORE THAN 2.5 GPM TO COMPLY WITH IRC P2903.2

#### **SMOKE DETECTOR NOTE:**

#### ADD SMOKE DETECTORS THROUGHOUT HOME

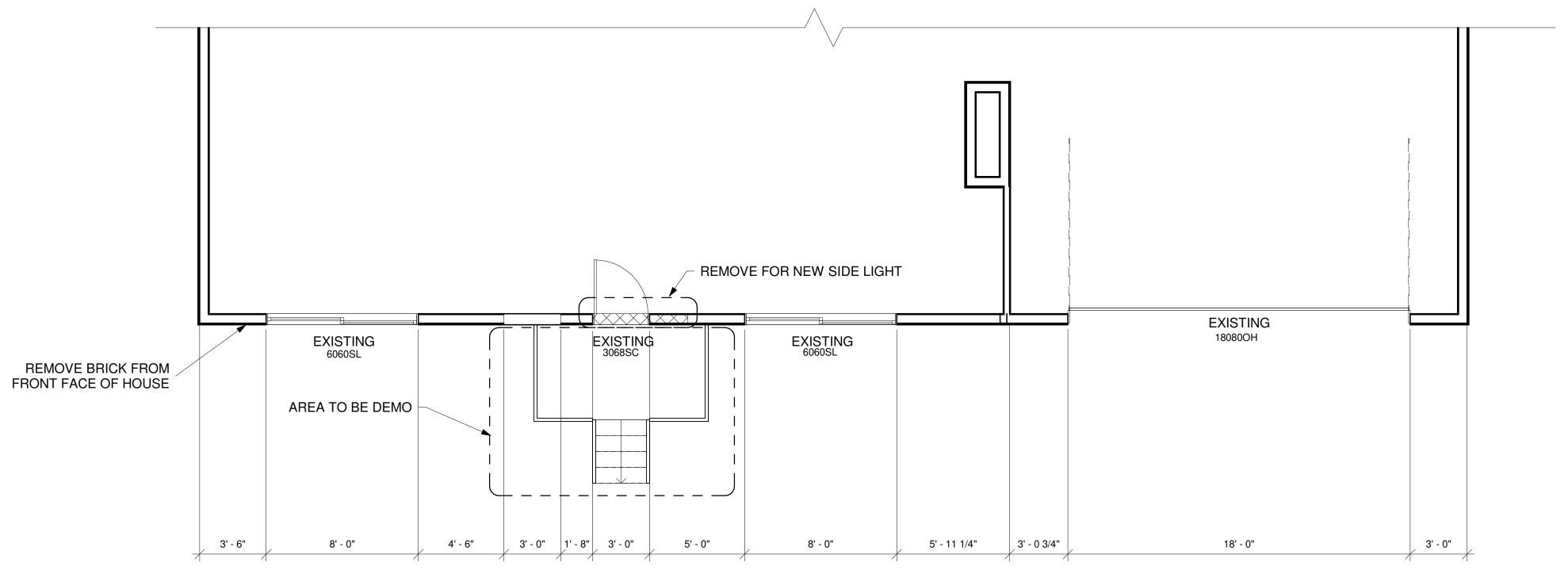
SMOKE DETECTORS SHALL COMPLY WITH SECTION R314 OF THE IRC AND SHALL BE HARD-WIRED, INTERCONNECTED, AND HAVE BATTERY BACKUP.

#### INSULATION NOTE:

ALL EXTERIOR 2X6 WALLS SHALL HAVE A MINIMUM OF R-20 INSULATION AND ALL ATTICS SPACE SHALL HAVE A MINIMUM OF R-49 INSULATION

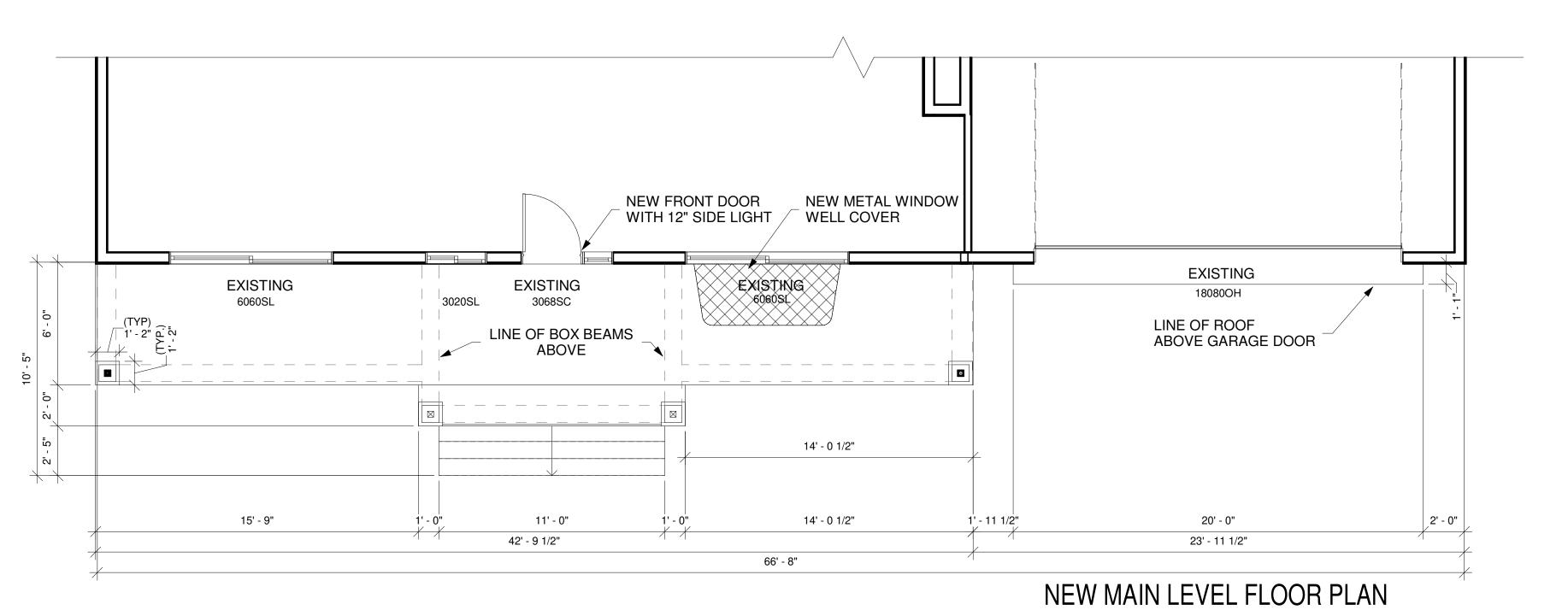
#### **DIMENSION NOTE:**

SITE VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIALS AND COMENSING ANY WORK. REPORT ANY SIGNIFICANT DESCREPENCIES TO THE DESIGNER.



EXISTING MAIN LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"



SCALE 1/4" = 1'-0"

Legacy

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GREGORY D. BROWN - OWNER/PRINCIPAL DESIGNER
295 W Center St STE: A Provo Utah 84601 E-MAIL: greg@Le

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AN ADDITION TO THE CARSON HOME

SQUARE FOOTAGE

EXISTING 1908 SF
NEW 307 SF
ADDITION

TOTAL
AREA: 2 2215 SF

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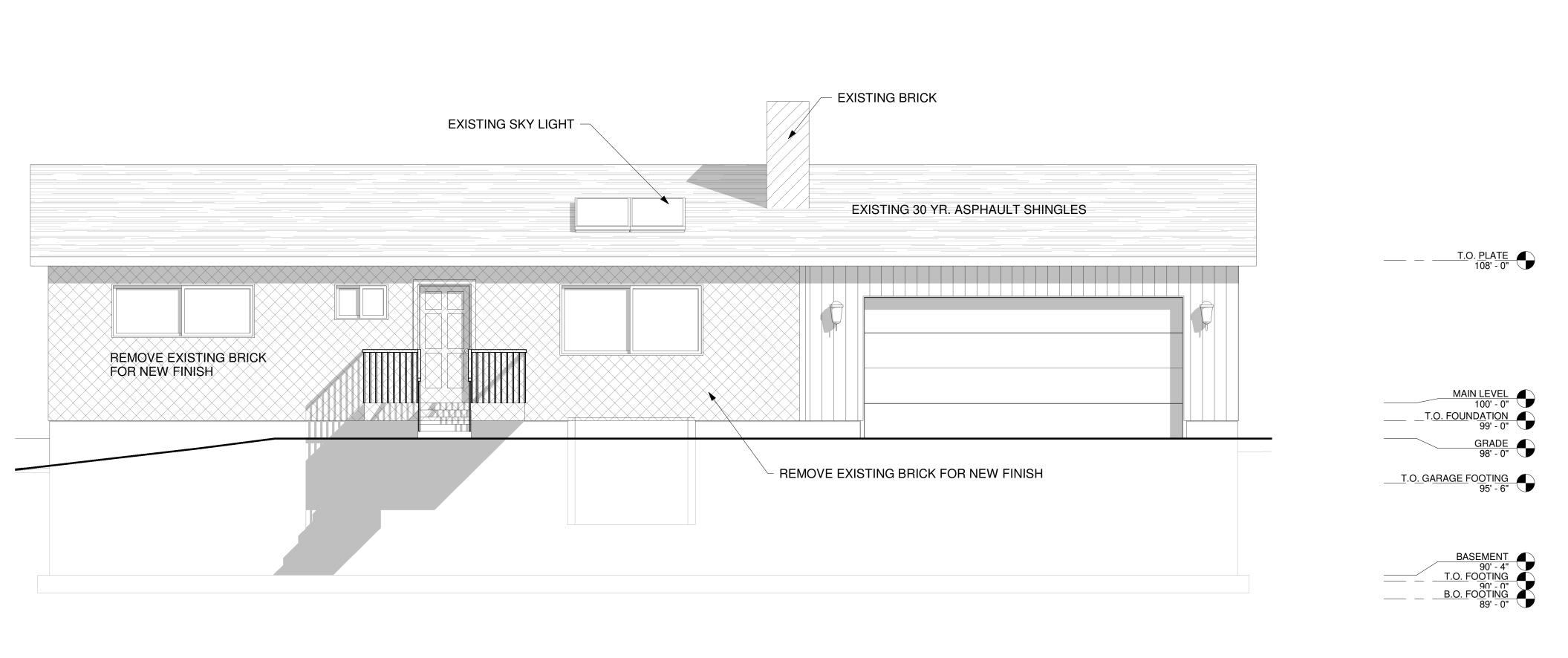
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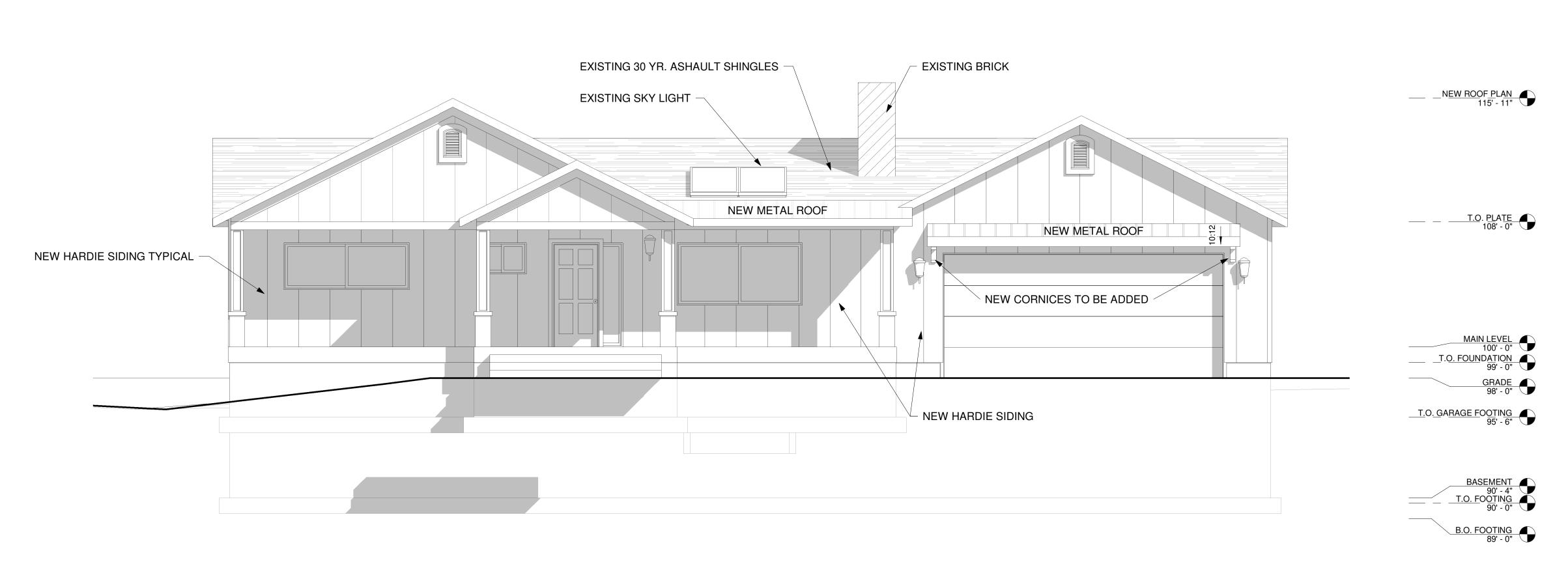
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<u>SHEET</u>



# **EXISTING FRONT ELEVATION**

SCALE 1/4" = 1'-0"



NEW FRONT ELEVATION

SCALE 1/4" = 1'-0"

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GREGORY D. BROWN - OWNER/PRINCIPAL DESIGNER CELL: 80

295 W Center St STE: A Provo Utah 84601 E-MAIL: greg@LegacyHom

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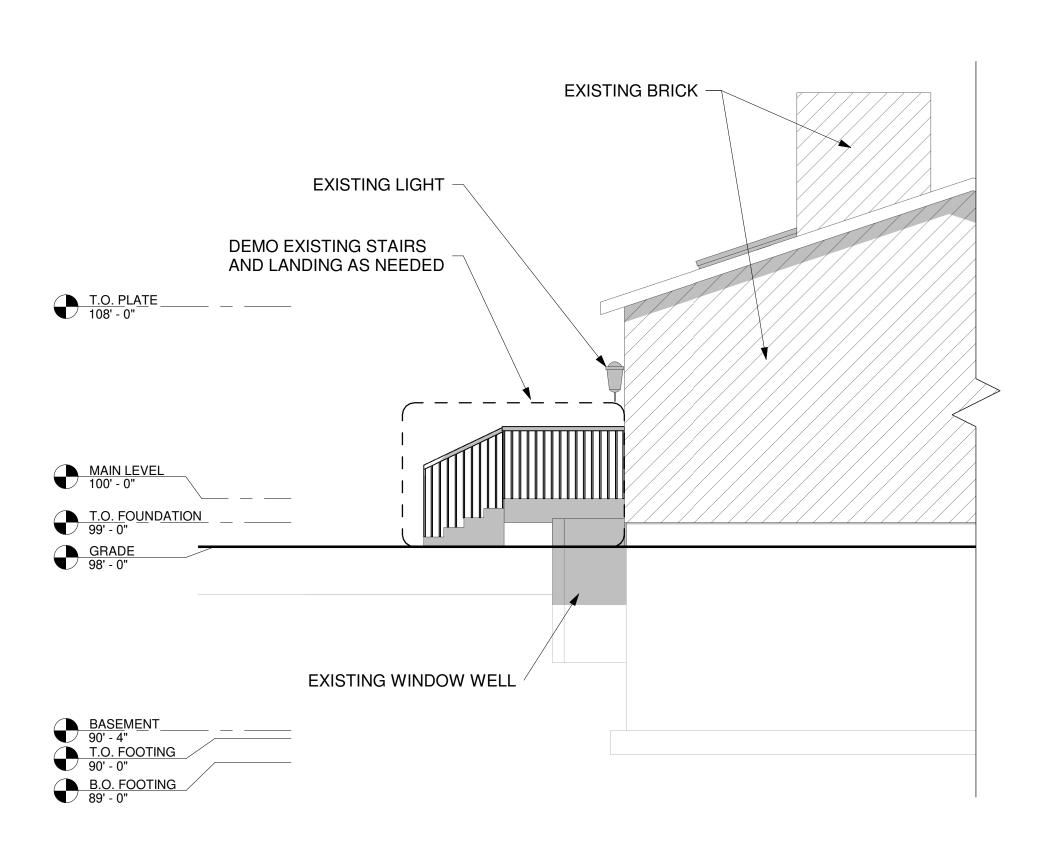
AN ADDITION TO THE CARSON HOME

SQUARE FOOTAGE

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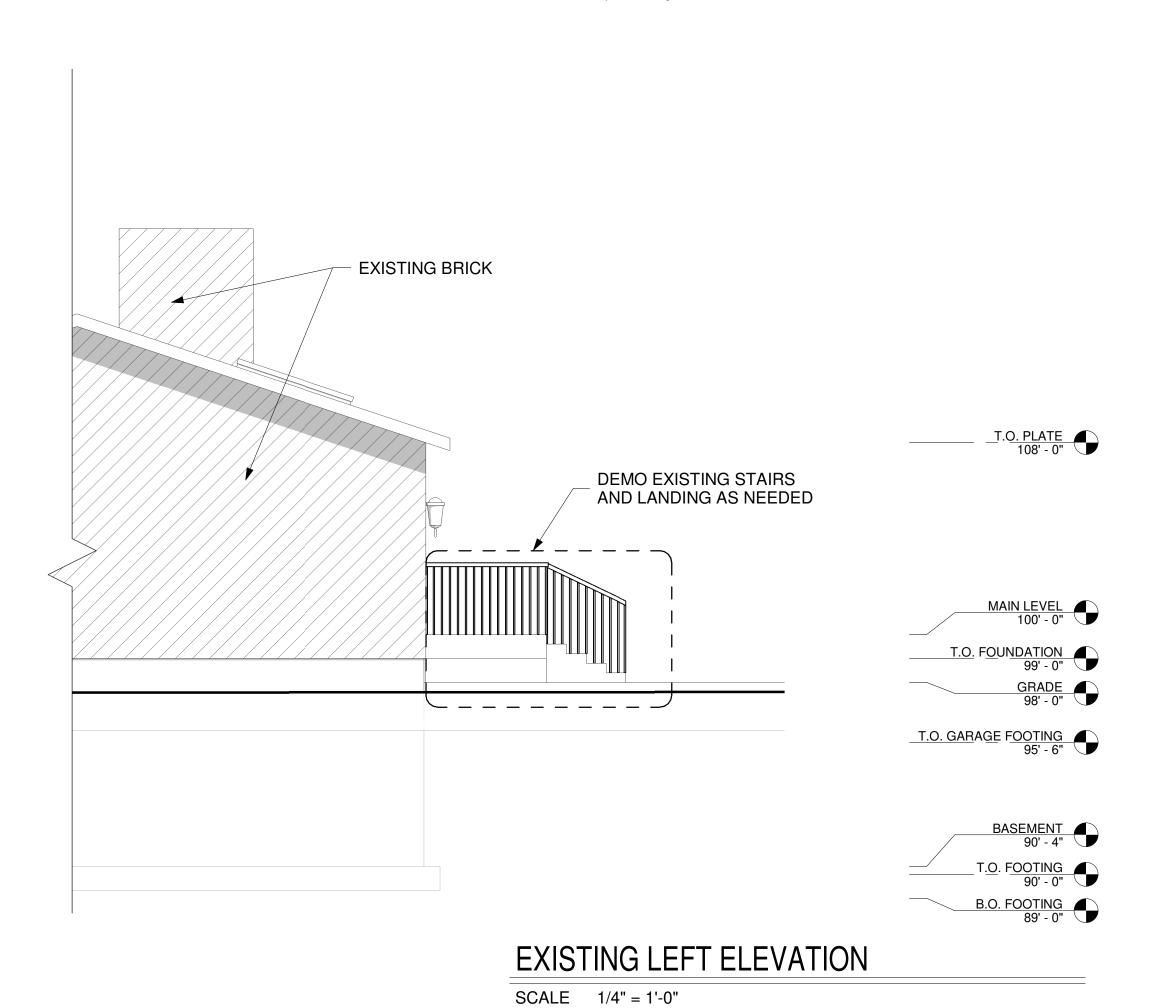
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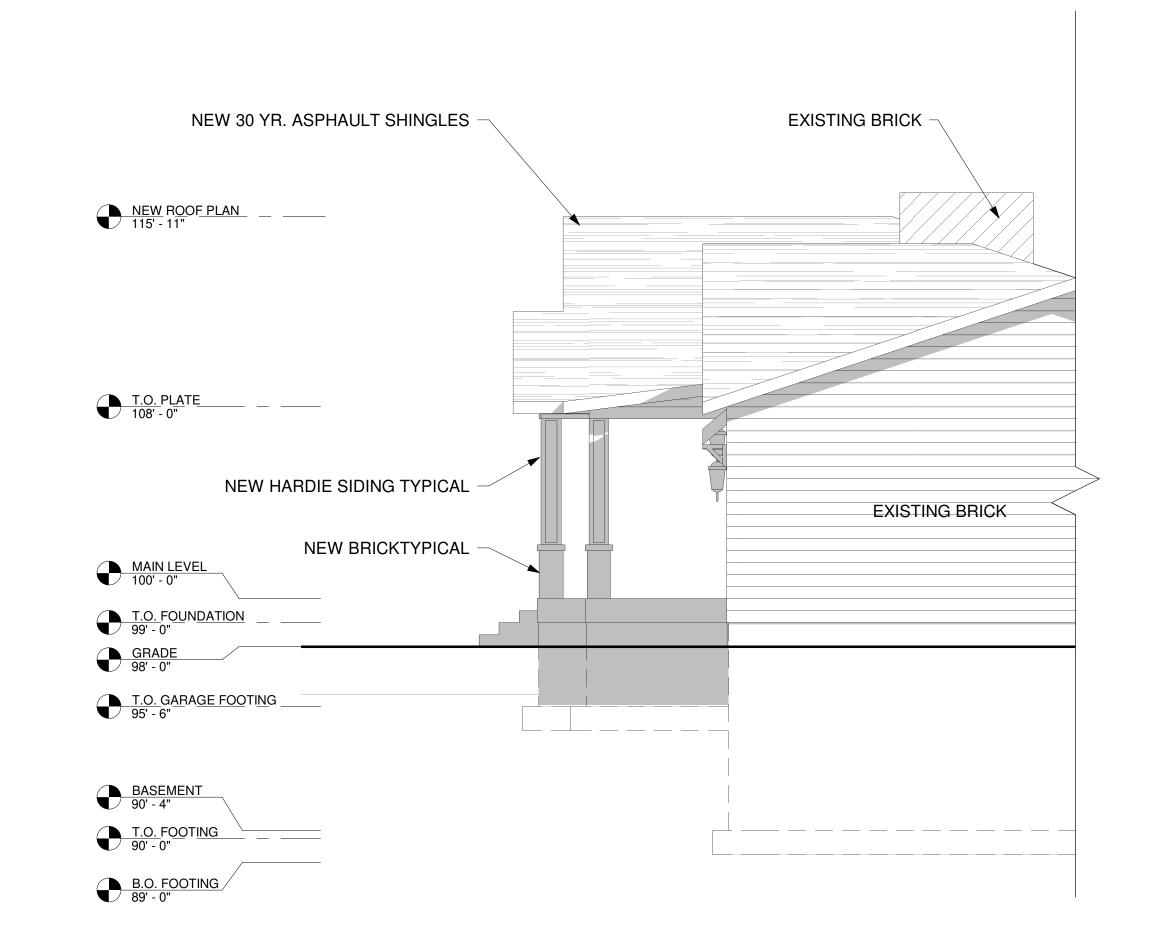
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# EXISTING RIGHT ELEVATION

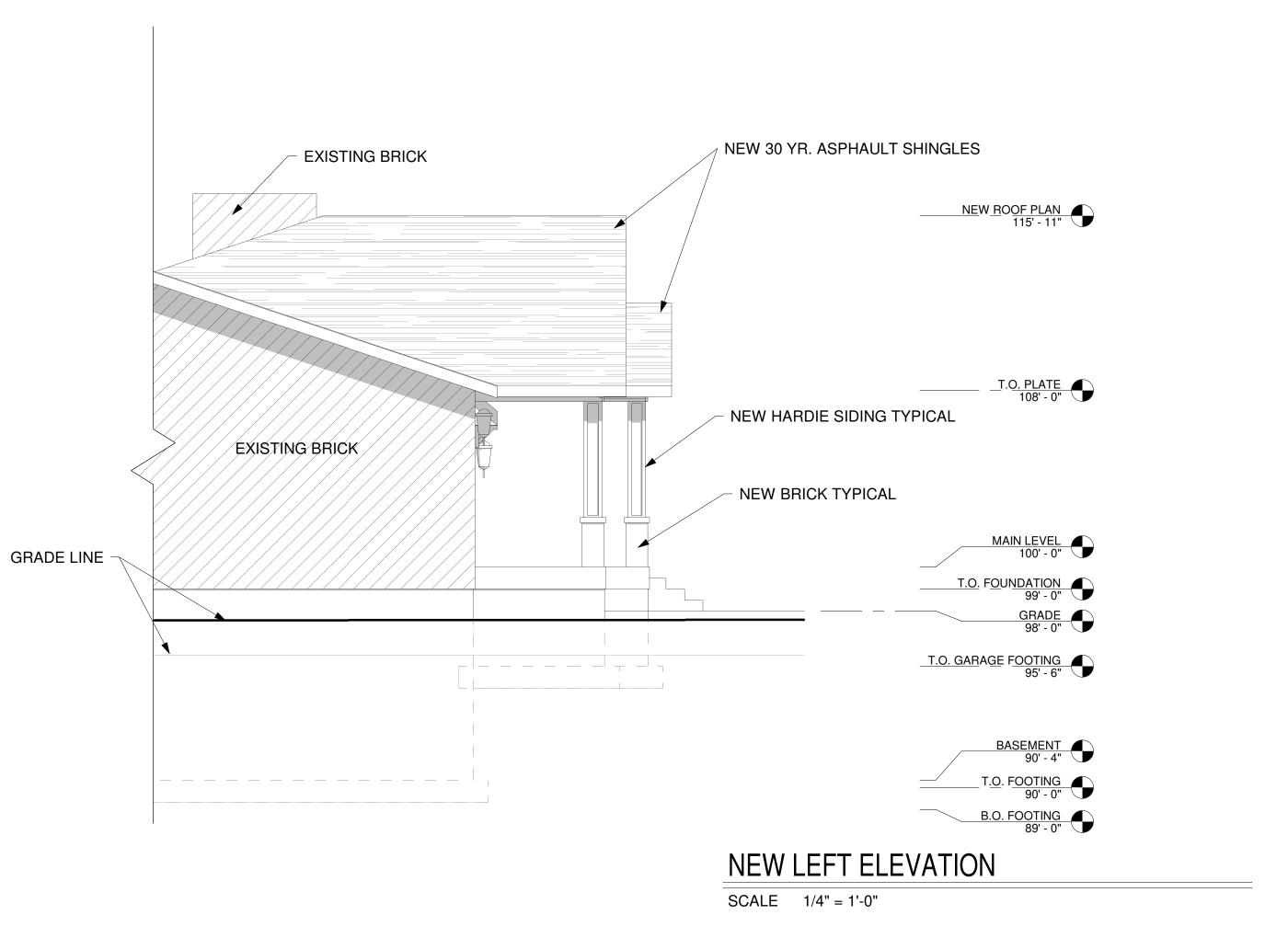
SCALE 1/4" = 1'-0"





# NEW RIGHT ELEVATION

SCALE 1/4" = 1'-0"



Cobsider Stress Brown - OWNER/PRINCIPAL DESIGN

GREGORY D. BROWN - OWNER/PRINCIPAL DESIGN

GREGORY - OWNER/PRINCIPAL D. BROWN - OWNE

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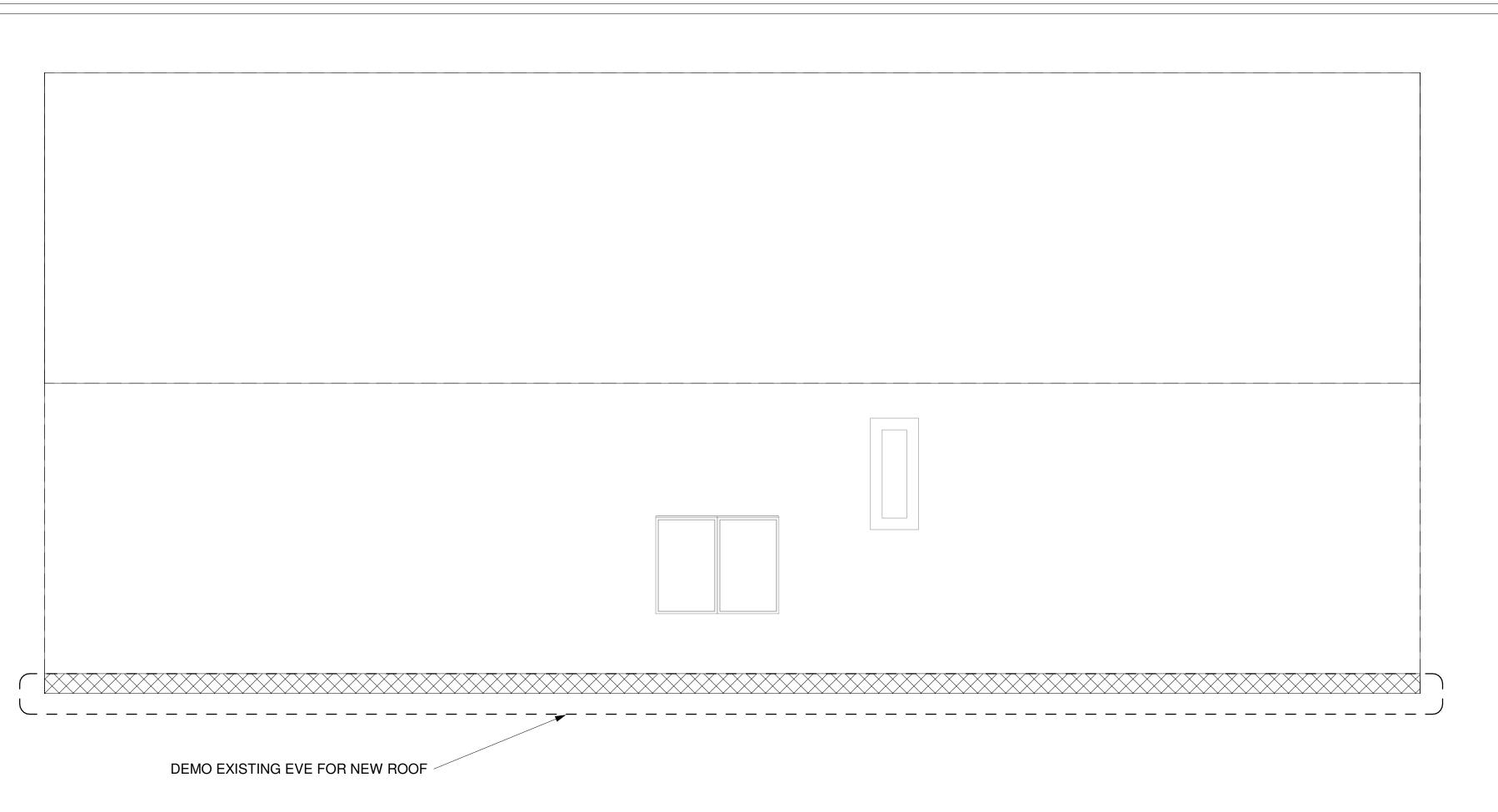
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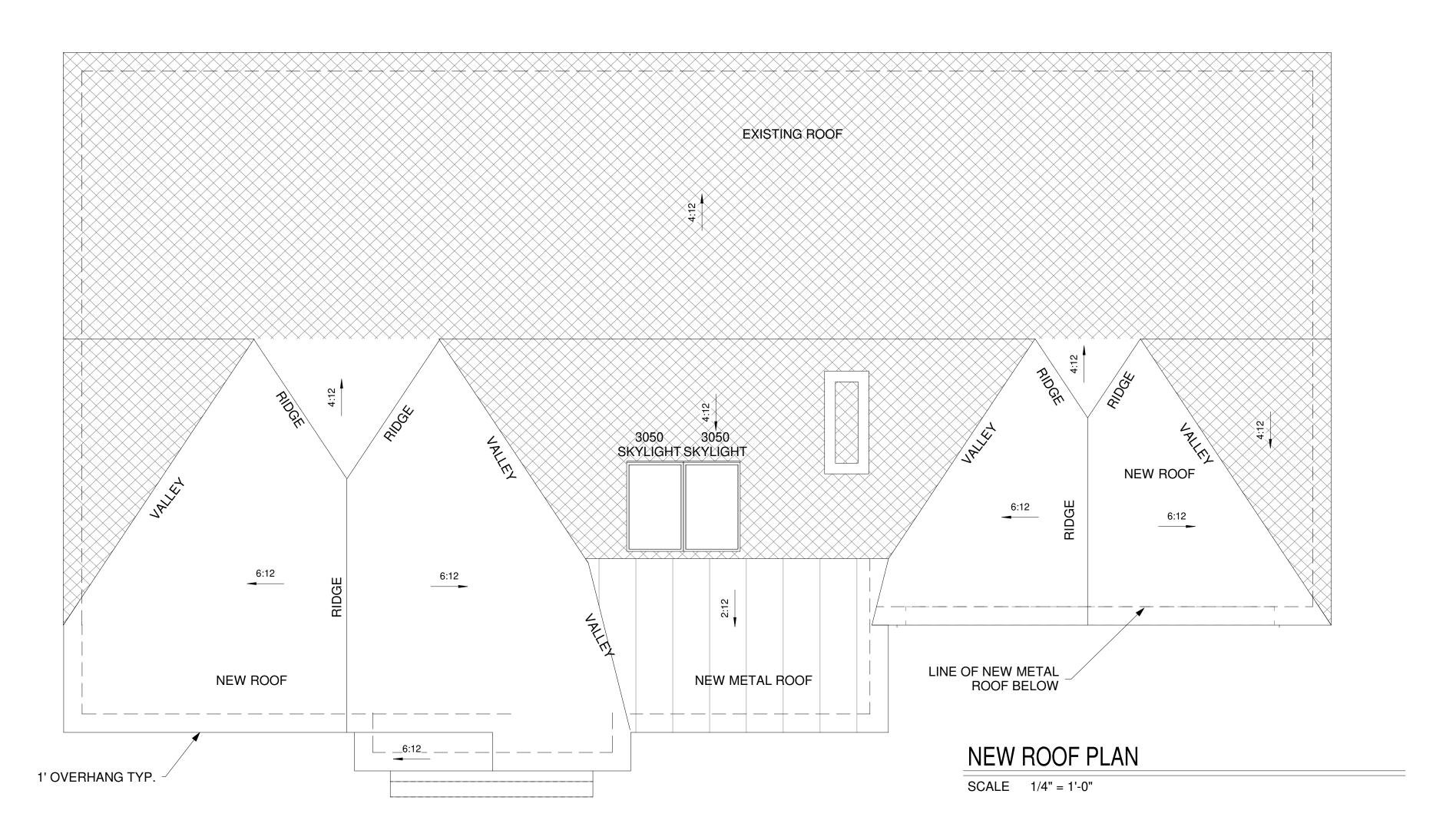
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# EXISTING ROOF PLAN

SCALE 1/4" = 1'-0"



ATTIC VENTILATION CALCULATIONS

ENCLOSED ATTIC SPACE: 767 SF

REQUIRED VENTILATION: 767/300 = 2.6 SF MIN.

<u>PROVIDE:</u> MINIMUM OF -- SF IN VENTED SOFFITS AND MINIMUM OF -- SF IN RIDGE VENTS, TURTLE VENTS, GABLE VENTS, OR A COMBINATION OF EACH.

NOTE THAT ENTIRE BUILDING TO HAVE VENTED ALUMINUM SOFFITS UNLESS NOTED OTHERWISE.

SEE CONTRACTORS SUBMITTAL FOR THE EXACT TYPE OF VENTS TO BE USED.

#### PRE-ENGINEERED TRUSSES

CONTRACTOR SHALL VERIFY THAT THE TRUSS MANUFACTURER'S LAYOUT AND DESIGN IS ACCORDING TO THE FRAMING PLANS AND PROJECT REQUIREMENTS.

WHERE ATTIC TRUSSES ARE USED, CONTRACTOR SHALL VERIFY THAT THE TRUSS MANUFACTURER'S ATTIC TRUSSES ARE DESIGNED SO THAT THE FLOOR PLAN LAYOUT WITHIN THE TRUSSES WORKS. THIS MAY REQUIRE A HEEL TO BE ADDED TO THE TRUSS TO PROVIDE ADEQUATE HEAD ROOM.

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AN ADDITION TO THE CARSON HOME

SQUARE FOOTAGE

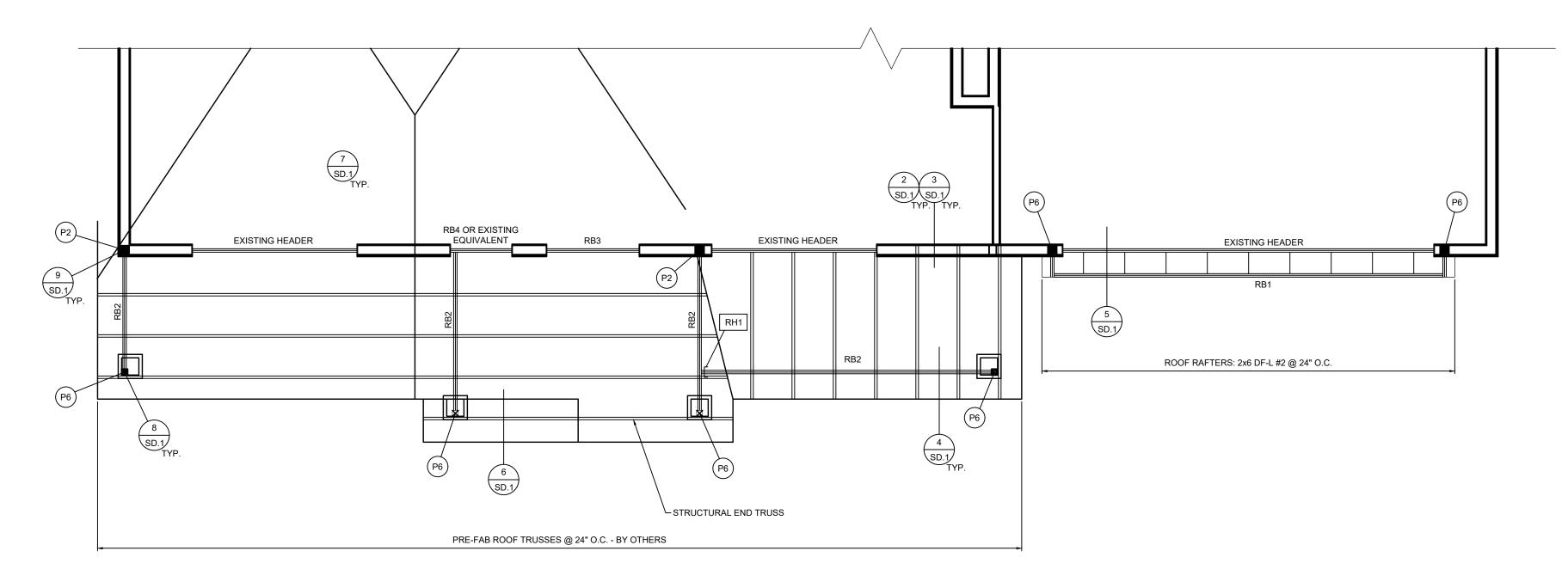
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DOOE	FRAMING	
KUUL	FRAIVIING	PLAIN

1 SD.1		EXISTING FOUNDATION		EXISTING FOUNDATION	
5-11			1 SD.1 L-7 L-17 L-17 L-17 L-17 L-17 L-17 L-17		
2-0-1					
SD.1 TYP.		FT1 FW1			
-	15'-8"	13'-0"	14'-0"		
_		42'-8"	-		

FOOTING AND FOUNDATION PLAN

	BEAM SCHEDULE				
DESIGNATION	SIZE				
RB1	4x8 DF-L #2				
RB2	3 <sup>1</sup> / <sub>8</sub> " x 9" GLULAM				
RB3	(2) 2x8 DF-L #2				
RB4	(2) 2x10 DF-L #2				

	POST SCHEDULE
DESIGNATION	SIZE
P1	ONE TRIMMER/STUD
P2	TWO TRIMMERS/STUDS
P3	THREE TRIMMERS/STUDS
P4	FOUR TRIMMERS/STUDS
P5	4x4 DF-L #2 POST
P6	6x6 DF-L #2 POST
P7	3 ½"x5 ¼" PARALLAM
P8	5 ¼"x5 ¼" PARALLAM
P9	8x8 DF-L #2 POST
P10	10x10 DF-L #2 POST
NOTES:	

NOTES:

1. SEE GENERAL STRUCTURAL NOTES SHEET (SN.1) FOR TYPICAL BEARING POST REQUIREMENTS.

2. POSTS INDICATE NUMBER OF TRIMMERS WHEN SPECIFIED AS HEADERS. ALL OTHER POST DESIGNATIONS REFER TO FULL HEIGHT KING STUDS.

3. INSTALL (2) TRIMMERS (MIN.) EACH SIDE OF HEADER GREATER THAN 6'-0" IN LENGTH.

4. INSTALL (2) KING STUDS (MIN.) EACH SIDE OF HEADER ON OPENINGS GREATER THAN 4'-0". SEE SHEET SN.1 FOR MIN. KING STUD REQUIREMENTS.

5. INSTALL (2) KING STUDS (MIN.) AT ALL HOLDOWN LOCATIONS OR AS NOTED ON HOLDOWN SCHEDULE. (U.N.O.)

BEAM HANGER SCHEDULE					
ESIGNATION	DESCRIPTION	NOTES			
RH1	HU3.25/12	-			

ROOF SHEATHING SCHEDULE				
MATERIAL	8d NAILS SPACING			
IVIATENIAL	EDGE	FIELD		
$\frac{7}{16}$ " STRUCTURAL II PLYWOOD OR OSB	6"	12"		

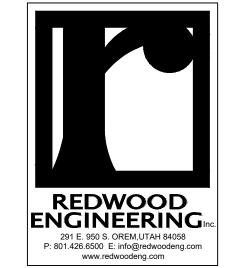
FOOTING SCHEDULE											
	MIDTL	LENGTH	DEPTH	CROSSWISE REINFORCEMENT			LENG	GTHWISE R	EINFORCEN	MENT	
	WIDTH	LENGIA	DEPIR	NO.	SIZE	LENGTH	SPACING	NO.	SIZE	LENGTH	SPACING
FT1	20"	CONT.	10"					2	#4	CONT.	EQ.

1. SEE GENERAL STRUCTURAL NOTES SHEET (SN.1) FOR TYPICAL FOOTING REQUIREMENTS 2. ALL FOOTINGS ARE TO BEAR BELOW THE FROST LINE OF THE LOCALITY (30" MIN. U.N.O.)

3. PROVIDE J-BARS TO MATCH VERTICAL WALL REINFORCEMENT 4. CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS AND SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (U.N.O.)

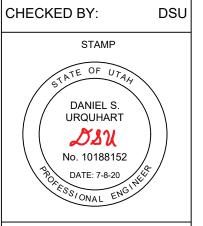
FOUNDATION WALL SCHEDULE								
	WIDTH	HEIGHT	VERTICAL REINFORCEMENT			HORIZONTAL REINFORCEMENT		
	WIDTH	ПЕІВПІ		SIZE	GRADE	SPACING		
FW1	8"	42"	#4	60	24"	#4	60	(4) #4

1. SEE GENERAL STRUCTURAL NOTES SHEET (SN.1) FOR TYPICAL FOUNDATION WALL REQUIREMENTS.
2. PLACE REINFORCEMENT IN CENTER OF WALL OR NEAR EACH FACE, PER PLANS (U.N.O.)
3. PLACE TOP AND BOTTOM REINFORCEMENT WITHIN 4" OF TOP AND BOTTOM OF WALL.



**THE** 1031 E

DATE	REV	ISION
PROJE	ECT NO:	2020-281
DATE:		7-7-20
SCALE	<u>:</u> :	<del>1</del> "=1'-0"
DRAW	N BY:	STU



ELECTRICAL, MECHANICAL OR DRAINAGE SPECS. A. IF SOILS CONDITIONS VARY FROM THE SOILS REPORT, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONNECTIONS. IF OTHER THAN STANDARD CONNECTIONS ARE REQUIRED. SEE PROJECT ENGINEER FOR ARCHITECT AND THE STRUCTURAL ENGINEER. B. FOUNDATION DESIGN BASED ON THE NOTED PSF SOIL BEARING CAPACITY. WE RECOMMEND THAT A ADDITIONAL ASSISTANCE. USE SIMPSON OR EQUAL CONNECTIONS FOR WOOD TO WOOD. LICENSED GEOTECHNICAL ENGINEER VERIFY THE SOIL BEARING CAPACITY, SLOPE STABILITY, ETC. ALL COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. ALL COLUMNS SHALL BE BRACED AT ALL FLOOR LEVELS. COLUMNS SHALL BE AS WIDE AS THE MEMBER THEY SUPPORT. POSTS SUPPORTED BY SLABS OR FND WALLS TO HAVE SIMPSON CB POST BASE OR EQUIVALENT. A. DO NOT PLACE FOOTINGS OR FOUNDATIONS ON DISTURBED SOILS, UNDOCUMENTED FILL, DEBRIS, FROZEN ALL FLOOR SHEATHING TO BE  $\frac{3}{4}$ " THICK T&G SHEATHING GLUED AND NAILED WITH 8d COMMON NAILS OR B. ALL UNSUITABLE SOILS AND VEGETATION, SUCH AS TOPSOIL, ORGANIC SOILS, UNDOCUMENTED FILL EQUAL @ 6" O.C. EDGES AND @ 12" O.C. IN THE FIELD. DISTURBED NATIVE SOILS, AND OTHER DELETERIOUS MATERIALS, SHALL BE REMOVED FROM BELOW VERIFY ALL BEAM SIZES WITH ENGINEERING SPECIFICATIONS FOOTINGS, FOUNDATIONS, AND FLOOR SLABS. ALL BEAMS AND HEADERS OVER 48" SHALL BE SUPPORTED BY DOUBLE TRIMMERS UNLESS NOTED OTHERWISE C. STRUCTURAL FILL SHALL CONSIST OF IMPORTED, WELL GRADED, GRANULAR SOIL WITH A MAXIMUM TRUSS MANUFACTURER SHALL PROVIDE ENGINEERING SPECS. FOR ALL TRUSSES. PARTICLE SIZE OF THREE INCHES, LESS THAN 30 PERCENT RETAINED ON THE 3" SIEVE, AND LESS THAN TO USE 10d NAILS) 15 PERCENT FINES (MATERIAL PASSING THE NO. 200 SIEVE). THE LIQUID LIMIT OF THE FINES SHALL NOT 8d NAILS @ 6" O.C. AT EDGES OF ROOF EXCEED 35 PERCENT AND THE PLASTICITY INDEX SHALL BE BELOW 15.

D. STRUCTURAL FILL SHALL BE PLACED IN MAXIMUM EIGHT INCH LOOSE LIFTS AND COMPACTED ON A 8d NAILS @ 4" O.C. AT GABLE ENDS SPACE NAILS 12" O.C. ON INTERMEDIATE MEMBERS HORIZONTAL PLANE. MOISTURE SHALL BE MAINTAINED BY PROPER MIXING AT A MOISTURE CONTENT STAGGER SHEATHING JOINTS WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE DETERMINED BY ASTM D 1557. COMPACT TO AT LEAST SHEATHING PERP. TO RAFTERS AND TRUSSES 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557 BELOW FOOTINGS, FOUNDATIONS, AND PROVIDE SQUASH BLOCKING AT RIM JOIST BELOW ALL POSTS FROM ROOF, HEADER OR BEAM POINT LOADS. E. ALL STRUCTURAL FILL THAT BECOMES DISTURBED DURING CONSTRUCTION SHALL BE RE-COMPACTED SQUASH BLOCKING TO BE SAME MATERIAL AS POST ABOVE. PROVIDE DOUBLE FLOOR JOISTS BELOW ALL PARALLEL BEARING WALLS ABOVE PER THE COMPACTION REQUIREMENTS SPECIFIED ABOVE. IF SOFT OR PUMPING CONDITIONS ARE ENCOUNTERED, THE SUB-GRADE MUST BE PROPERLY STABILIZED. DE-WATERING, PLACEMENT OF 13. GLULAM BEAMS SHALL BE 24F-V4 DF/DF FOR SINGLE SPANS AND 24F-V8 DF/DF FOR MULTIPLE SPANS, AND GEO-FABRIC, OR OTHER STABILIZATION MAY BE REQUIRED.
F. ALL SLABS ON GRADE SHALL BE UNDERLAIN BY FOUR INCHES OF FREE-DRAINING GRANULAR MATERIAL CANTILEVERED SPANS. GLULAMS EXPOSED TO WEATHER SHALL BE PRESSURE TREATED OR PROVIDE WEATHER PROTECTIVE COATING SUCH AS "PEA" GRAVEL OR THREE-QUARTERS TO ONE INCH MINUS CLEAN GRAVEL LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING PROPERTIES:E=1900KSI,Fb=2600PSI,Fv=285PSI. 3. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL HAVE A 5-PERCENT SLOPE AWAY FROM ALL RAFTERS AND JOISTS OVER THREE FEET LONG SHALL BE HANGERED IF NOT SUPPORTED BY BOTTOM THE BUILDING FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE BEARING. ALL HANGERS AND OTHER WOOD CONNECTIONS MUST BE DESIGNED TO CARRY THE CAPACITY OF FOUNDATION WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL THE MEMBER THAT THEY ARE SUPPORTING DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF 16. FRAMING CONNECTIONS NOTED ON THE DRAWINGS ARE SIMPSON STRONG-TIE OR EQUAL. INSTALL WITH THE DIVERTING WATER AWAY FROM THE FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE CATALOG DESIGNATED CONNECTOR IN EACH HOLE. BUILDING FOUNDATION SHALL HAVE A MINIMUM 2-PERCENT SLOPE. 17. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN, NOTED OR APPROVED . CONCRETE MATERIALS, QUALITY CONTROL, AND CONSTRUCTION SHALL COMPLY WITH CURRENT EDITIONS OF IBC LAG SCREWS SHALL BE INSERTED IN A DRILLED PILOT HOLE 60%-75% OF THE SHANK DIAMETER BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. ALL NUTS, BOLTS AND LAG SCREWS SHALL BE PROVIDED 2. COMPRESSIVE STRENGTH (MINIMUM SPECIFIED AT 28 DAYS) WITH AN OVERSIZED WASHER. 19. NAILS TO BE COMMON WIRE UNLESS OTHERWISE NOTED. B. INTERIOR FLOOR SLABS ON GRADE: 20. ALL BOLT HOLES SHALL BE DRILLED WITH A BIT  $\frac{1}{32}$ " TO  $\frac{1}{16}$ " LARGER THAN THE NOMINAL BOLT DIAMETER. C. EXTERIOR FLOOR SLABS ON GRADE: 21. ALL JOINTS IN WALL SHEATHING SHALL OCCUR IN THE MIDDLE OF A PLATE OR BLOCK AND NAILED ON EACH SIDE OF THE JOINT WITH EDGE NAILING PER SHEARWALL SCHEDULE. 3,000 PSI FOR R-2 AND R-3 OCCUPANCIES, 4,000 PSI FOR OTHER COLUMNS AND POSTS LOCATED ON CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO THE WEATHER NOTE: 2500 PSI CONCRETE USED IN FOOTING DESIGN, HIGHER STRENGTHS SPECIFIED FOR QUALITY CONTROL. 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 A. CEMENTS (ASTM C 150). CONCRETE EXPOSED TO FREEZING AND THAWING OR DEICING CHEMICALS SHALL WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD IS USED. THE PEDESTAL SHALL PROJECT AT CONFORM TO THE MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIOS AND MINIMUM COMPRESSIVE LEAST 6" ABOVE EXPOSED EARTH & AT LEAST 1" ABOVE SUCH FLOORS. STRENGTH REQUIREMENTS OF ACI-318. ALL FASTENERS IN PRESSURE TREATED LUMBER ARE TO COMPLY WITH CURRENT IBC REQUIREMENTS. B. AGGREGATES (ASTM C 33): NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE SHALL NOT BE LARGER THAN ALL STAPLES INTO WOOD DIAPHRAGMS ARE TO BE A MINIMUM OF 12" 16 GAGE WITH SPACING PER PLANS.  $\frac{1}{5}$  THE NARROWEST DIMENSION BETWEEN FORMS, NOR  $\frac{1}{3}$  THE DEPTH OF SLABS, NOR  $\frac{3}{4}$  THE MINIMUM CLEAR CHIMNEY & FIREPLACE FRAMING - PROVIDE FULL HT. 2x6 STUDS (MIN.) FROM BEARING TO TOP OF CHIMNEY SPACING BETWEEN REINFORCING BARS OR WIRES, TENDONS, OR DUCTS. USE (2) 4"x32" SDS SCREWS AT EACH STUD TO RAFTER/TRUSS CHORD INTERSECTION C. WATER USED IN MIXING CONCRETE SHALL BE POTABLE, CLEAN AND FREE FROM INJURIOUS AMOUNTS OF PROVIDE KING STUDS AT THE END OF FRAMED WALL OPENINGS PER TABLE (U.N.O.): OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE D. ADMIXTURES SHALL BE SUBJECT TO PRIOR APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL IN E. CONCRETE EXPOSED TO FREEZING AND THAWING OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH AIR CONTENT INDICATED IN ACI 318. TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE PLUS/MINUS 1.5 A. CONCRETE SHALL BE PROPERLY VIBRATED DURING PLACEMENT. B. PRIOR TO PLACING CONCRETE, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF OPENINGS. PRE-FABRICATED METAL PLATE WOOD TRUSS NOTES BLOCK OUTS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC. ANCHOR BOLTS AND BOTTOM CHORDS OF TRUSSES, ACTING AS CEILING MEMBERS MUST BE ABLE TO SUPPORT A 10 PSF LIVE LOAD DOWELS SHALL BE PLACED PRIOR TO CASTING CONCRETE C. CONSTRUCTION JOINTS AND BULKHEADS SHALL BE FORMED WITH A KEYWAY. ALL CONTACT SURFACES, PER IBC REQUIREMENTS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE NEW OR EXISTING, AT CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED PRIOR TO CASTING PRE-ENGINEERED TRUSSES, INCLUDING ALL TEMPORARY BRACING, PERMANENT LATERAL BRACING, TRUSS TO TRUSS CONNECTIONS AND SHALL DESIGN THE TRUSSES PER ATTACHED ENGINEERING SPECS. D. OPENINGS IN FLOORS AND/OR WALLS SHALL HAVE ADDITIONAL REINFORCING AROUND ALL SIDES OF THE THE TRUSSES SHALL BE DESIGNED TO CARRY ANY ADDITIONAL LOADS DUE TO MECHANICAL UNITS, OVERHEAD OPENING EQUIVALENT TO THE BARS CUT BY THE OPENING WITH HALF ON EACH SIDE OF THE OPENING OR DOORS, ROOF OVERBUILDS, ETC. 2-#4 BARS, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE. BARS PARALLEL TO THE PRINCIPAL THE TRUSSES SHALL ALSO BE DESIGNED PER THE MOST RECENT BUILDING CODE, AND LOCAL ORDINANCES. REINFORCING SHALL RUN FULL LENGTH OF THE SPAN. BARS IN THE OTHER DIRECTION SHALL RUN 24 DESIGN MUST ALSO TAKE INTO ACCOUNT UNBALANCED SNOW LOADS, SNOW DRIFTING, INCREASED SNOW INCHES BEYOND THE EDGE OF THE OPENING OR END WITH A STANDARD HOOK. ALSO PROVIDE 2-#4 x 4'-0" DIAGONAL BARS AT EACH CORNER OF EACH OPENING.

E. NO PENETRATION SHALL BE ALLOWED THROUGH ANY CONCRETE BEAM, JOIST, COLUMN, PIER, WALL, OR LOADS ON EAVES AND VALLEYS, IMPACT LOADS FROM FALLING SNOW AND ICE, ETC ALL MEMBERS SHALL BE DESIGNED FOR COMBINED STRESSES, BASED ON WORST CASE CONDITION JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION. PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES PER THE TRUSS MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. NO WEB OR CHORD MEMBERS SHALL BE A. FOOTINGS SHALL BEAR ON PROPERLY PREPARED MATERIAL. SEE THE SITE PREPARATION NOTES.
B. FOOTINGS SHALL BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYPICAL UNLESS NOTED THE PROJECT ENGINEER, OR ENGINEER OF RECORD, IS NOT RESPONSIBLE FOR THE PRE-ENGINEERED TRUSSES, NOR FOR THE INSTALLATION ETC. OF THE TRUSSES. TRUSS PLANT SHALL PROVIDE LICENSED EXTERIOR FOOTINGS SHALL BEAR BELOW THE EFFECTS OF FROST. FNGINFFRED PLAN D. STAGGER FOOTING CONSTRUCTION JOINTS FROM WALL CONSTRUCTION JOINTS ABOVE BY AT LEAST 6 TRUSSES SPANNING MORE THAN 60' AND/OR TALLER THAN 5'-0" IN HEIGHT REQUIRE SPECIAL INSPECTION ON E. REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/OR INTERSECTIONS BY TEMPORARY & PERMANENT LATERAL BRACING. THE TRUSS DESIGNER SHALL PROVIDE A TRUSS PACKAGE THAT INCLUDES THE FOLLOWING ITEMS: PROVIDING PROPER LAP LENGTHS AND/OR CORNER BARS. F. EXTERIOR CONTINUOUS FOOTINGS WITHOUT CONCRETE FOUNDATION WALLS ABOVE SHALL BE A. DESIGN DRAWINGS OF EACH INDIVIDUAL TRUSS. B. TRUSS PLACEMENT DIAGRAM FOR THE PROJECT REINFORCED WITH A MINIMUM OF 2-#4 LONGITUDINAL TOP BARS IN ADDITION TO REINFORCING SPECIFIED C. TRUSS MEMBER PERMANENT BRACING SPECIFICATION. G. NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTING. WHEN CONFLICTS ARISE D. TRUSS TO TRUSS CONNECTIONS. TRANSFER OF LOADS AND ANCHORAGE OF EACH TRUSS TO THE SUPPORTING STRUCTURE SHALL BE BETWEEN UNDERGROUND PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A CONCRETE WALL, PIER, COLUMN, ETC., SHALL BE EXTENDED TO THE FOOTING AS APPROVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. STRUCTURAL STEEL H. BEARING SURFACES FOR FOOTINGS WHICH ARE, OR BECOME, UNDERMINED DURING CONSTRUCTION CODES AND STANDARDS SHALL BE BACKFILLED WITH A LEAN-MIX CONCRETE (1000 PSI MIN.). A. STRUCTURAL STEEL WORK SHALL COMPLY WITH CURRENT EDITIONS OF IBC 2205, AISC 341, AISC 358, AND A. INTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK, SHALL BEAR ON A 4 INCH MINIMUM 2. MATERIALS: LAYER OF FREE-DRAINING GRAVEL A. STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992 GRADE 50 STEEL. STRUCTURAL STEE B. CONTROL JOINT SPACING RULE OF THUMB IS 24x\_ SLAB THICKNESS (4" SLAB = 8'-0" MAX O.C. EACH WAY). PLATES SHALL CONFORM TO ASTM A36. PROVIDE CONTROL JOINTS AT APPROX. 15'-0" EACH WAY (MAXIMUM). B. STRUCTURAL TUBE STEEL SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YIELD STRENGTH C. SAW CUT WITHIN 6-18 HOURS OF POURING CONCRETE. CONCRETE MUST BE HARD ENOUGH TO PREVENT Fv=46 KSI. RAVELING OF JOINT EDGES OR DISLODGING OF COURSE AGGREGATE D. LARGE AREAS OF INTERIOR SLABS ON GRADE SHALL BE PLACED IN STRIPS NOT TO EXCEED 120 FEET IN C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, WITH A MINIMUM YIELD STRENGTH Fy=36 KSI LENGTH NOR 30 FEET IN WIDTH WHICH ARE SUBDIVIDED BY CONSTRUCTION AND/OR CONTRACTION D. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325. ALL OTHER BOLTS SHALL CONFORM TO ASTM (CONTROL) JOINTS INTO ROUGHLY SQUARES WHOSE SIDES SHALL NOT EXCEED 15 FEET IN EITHER A307 OR BETTER. 3. CONSTRUCTION: A. FABRICATION SHALL BE DONE IN AN APPROVED FABRICATOR'S SHOP. A. PLACE VERTICAL REINFORCING IN THE CENTER OF THE WALL (EXCEPT FOR RETAINING WALLS, OR WHEN B. CAMBER IN BEAMS SHALL BE AS INDICATED ON PLANS C. PROVIDE A SHOP COAT OF PAINT ON ALL STEEL ITEMS, EXCEPT AT AREAS OF WELDING AND/OR BOLTING. B. VERTICAL REINFORCING SHALL BE DOWELED TO FOOTING OR STRUCTURE BELOW AND TO STRUCTURE 4. BOLTED CONNECTIONS: ABOVE WITH THE SAME SIZE BAR AND SPACING, TYPICAL, UNLESS NOTED OTHERWIS C. PROVIDE CORNER BARS AT ALL INTERSECTIONS AND CORNERS. USE SAME SIZE BAR AND SPACING AS THE A. BOLT SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE B. STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS AND D. HORIZONTAL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS AND AT OPENINGS WITH A NUTS, UNLESS NOTED OTHERWISE. BOLTS SHALL CARRY THE IDENTIFYING MARK OF THREE (3) RADIAL E. WHEN TWO CURTAINS OF STEEL ARE REQUIRED, THE SPLICES IN THE HORIZONTAL REINFORCING OF EACH C. ALL OTHER BOLTED CONNECTIONS SHALL BE MADE WITH BOLTS AND NUTS CONFORMING TO ASTM A307 CURTAIN SHALL NOT OCCUR AT THE SAME LOCATION. UNLESS NOTED OTHERWISE, INCLUDING ANCHOR BOLTS. F. PROVIDE DRAINAGE AT THE BASE OF RETAINING WALLS AND AT THE BASE OF ALL BASEMENT WALLS. D. BOLTED CONNECTIONS SHALL BE TIGHTENED AND SHALL HAVE WASHERS AS REQUIRED BY AISC UNLESS G. ANCHOR BOLTS ARE TO HAVE A MIN. 7" EMBEDMENT INTO CONCRETE. PROVIDE 1 BOLT A MIN. OF 4" FROM END OF PLATE & A MAX. OF 12" FROM END OF PLATE. EACH PLATE IS TO HAVE A MIN. OF 2 BOLTS. ANCHOR E. ENLARGING OF HOLES SHALL BE ACCOMPLISHED BY MEANS OF REAMING. DO NOT USE A TORCH ON ANY BOLT SPACING IS NOT TO EXCEED 32" O.C. U.N.O. ON PLANS. H. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE. ANCHOR BOLTS . WELDED CONNECTIONS FOR STRUCTURES LOCATED IN SEISMIC DESIGN CATEGORY D,E, OR F SHALL INCLUDE A 3"x3"x.229" WASHER A. WELDED CONNECTIONS SHALL BE MADE USING LOW HYDROGEN MATCHING FILLER MATERIAL WITH ROUND OR SLOTTED HOLES. ELECTRODES, UNLESS NOTED OTHERWISE B. WELDERS SHALL BE CURRENTLY CERTIFIED ACCORDING TO AWS WITHIN THE LAST 12 MONTHS. ALL WELDING PROCEDURES SHALL BE PRE-QUALIFIED. WELDERS SHALL FOLLOW WELDING PROCEDURES A. REINFORCING STEEL SHALL COMPLY WITH: C. WELDING AND GAS CUTTING SHALL BE DONE PER AWS. WELDS SHALL HAVE THE SLAG REMOVED. I. CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE". D. WELDING WORK SHALL COMPLY WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING II. AMERICAN CONCRETE INSTITUTE "DETAILING MANUAL", ACI 315 (OR SP-66). CODE," EXCLUDING ITEMS CONFLICTING WITH AISC REQUIREMENTS. A. REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS AND SHALL CONFORM TO ASTM A615, GRADE 60, WITH A DESIGN YIELD STRENGTH OF 60,000 PSI, EXCEPT AS NOTED BELOW. 1. MASONRY VENEER MATERIALS, CONSTRUCTION, AND QUALITY SHALL CONFORM TO CURRENT IBC AND ACI 530 I. DOWELS TO BE BENT IN THE FIELD DURING CONSTRUCTION SHALL BE ASTM A615, GRADE 40 OR ASTM A706 GRADE 60 "LOW ALLOY STEEL" 2. PRODUCTS: MASONRY VENEER ANCHOR TIES SHALL BE ONE OF THE FOLLOWING II. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60, "LOW-ALLOY STEEL" INSTALLATION: A. REINFORCING SHALL BE DETAILED, BOLSTERED, AND SUPPORTED PER ACI 318 AND IBC. B. REINFORCING STEEL SHALL BE FREE OF LOOSE, FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER II. DX-10 SEISMIC CLIP INTERLOCK SYSTEM BY HOHMANN & BARNARD. III. ARCHITECT AND STRUCTURAL ENGINEER APPROVED TWO PIECE ADJUSTABLE HOT-DIPPED MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND. GALVANIZED TIES. C. REINFORCING SHALL BE CONTINUOUS IN WALLS, BEAMS, COLUMNS, SLABS, FOOTINGS, ETC. A. MAXIMUM SPACING SHALL BE 16" O.C. VERTICAL AND MATCH STUD WALL SPACING HORIZONATAL D. SPLICES IN CONTINUOUS REINFORCING SHALL BE MADE IN AREAS OF COMPRESSION AND/OR AT POINTS OF B. PROVIDE CONTINUOUS HORIZONTAL GALVANIZED #9 WIRE IN CENTER THIRD OF MORTAR JOINTS AT 16" MINIMUM STRESS, TYPICAL UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 40 BAR DIAMETERS LONG IN CONCRETE AND 48 BAR DIAMETERS LONG IN MASONRY. MINIMUM LAP SHALL BE 24 INCHES LONG. O.C. ENGAGE #9 WIRE WITH ALL ANCHOR TIES. (SEE DETAIL) DOWELS SHALL HAVE A MINIMUM OF 30 BAR DIAMETERS EMBEDMENT. TENSION SPLICES SHALL BE USED IN CONCRETE WHEN SPECIFICALLY NOTED, USE A CLASS B SPLICE. SPLICES IN TOP BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT MID SPAN. SPLICES IN BOTTOM BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT SUPPORTS. E. BENDS SHALL BE MADE COLD. DO NOT USE HEAT. BENDS SHALL BE DONE IN THE FABRICATOR'S SHOP UNLESS SPECIFICALLY NOTED FOR THE FIELD. DO NOT UN-BEND OR RE- BEND A PREVIOUSLY BENT BAR. F. REINFORCING STEEL IN CONCRETE SHALL BE SECURELY ANCHORED AND TIED IN PLACE PRIOR TO PLACING CONCRETE AND SHALL BE POSITIONED WITH THE FOLLOWING MINIMUM CONCRETE COVER: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH......3" CONCRETE EXPOSED TO EARTH OR WEATHER: ROCK VENEER #6 AND LARGER.. #5 AND SMALLER. CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS AND WALLS, #11 AND SMALLER BEAMS AND COLUMNS, MAIN REINFORCING OR TIES.. ...1 1/2" SLABS ON GRADE CENTER OF SLAF G. NO REINFORCING STEEL SHALL BE WELDED UNLESS SPECIFICALLY NOTED AS SUCH. USE E90XX ELECTRODES AND ASTM A706 REINFORCING. COMPLY WITH AWS REQUIREMENTS. 1. EPOXY ADHESIVE ANCHORING SYSTEMS A. CONCRETE: HILTI HIT-RE 500-SD OR SIMPSON SET-XP. BRICK VENEER B. MASONRY (GROUTED): HILTI HIT-HY 150-MAX OR SIMPSON SET. C. STEEL REINFORCEMENT AND RODS SHALL BE EMBEDDED 10 BAR DIAMETERS UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWING AND DETAILS. WHERE 10 BAR DIAMETERS EXCEED THE MEMBER THICKNESS MINUS MINIMUM COVER, STEEL REINFORCEMENT SHALL BE EMBEDDED THE MEMBER THICKNESS MINUS MINIMUM COVER WITH A STANDARD HOOK. D. EMBEDDED PORTIONS OF STEEL REINFORCEMENT AND RODS SHALL BE CLEAN, STRAIGHT, AND FREE OF MILL SCALE, RUST AND OTHER COATINGS THAT IMPAIR THE BOND WITH THE ADHESIVE. REINFORCEMENT MUST NOT BE BENT AFTER INSTALLATION. 2. MECHANICAL EXPANSION ANCHORS: A. CONCRETE: HILTI KWIK BOLT TZ. B. MASONRY: HILTI KWIK BOLT 3. VENEER LINTEL C. EXPANSION ANCHORS SHALL NOT BE USED IN TENSILE LOAD APPLICATIONS (E.G. HOLDOWNS, MOMENT FRAMES) AND MAY NOT BE USED TO SUBSTITUTE OTHER ANCHOR SYSTEMS 1. APPROVED CORROSION-RESISTIVE FLASHING SHALL BE INSTALLED AS REQUIRED BY THE IRC AND IBC. 3. POST-INSTALLED ANCHORING SYSTEMS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. HOLE CLEANING METHOD SHALL BE BASED ON DRILLING METHOD AND BORE HOLE 2. STEEL LINTELS SHALL BE SHOPCOATED WITH A RUST-INHIBITIVE PAINT OR MADE OF CORROSION RESISTANT STEEL OR STEEL TREATED WITH COATINGS TO PROVIDE CORROSION RESISTANCE. CONDITIONS AND SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS. **VENEER ANCHORAGE** 

**GENERAL FRAMING NOTES** ALL JOISTS, RAFTERS, POSTS AND HEADERS SHALL BE DOUGLAS FIR LARCH NO.2 OR EQUAL U.N.O. ALL JOISTS AND RAFTERS SHALL HAVE SOLID BLOCKING AT THEIR BEARING POINTS ALL WOOD/LUMBER PLACED ONTO CONCRETE SHALL BE PRESSURE TREATED OR REDWOOD ALL WOOD CONNECTIONS MUST CARRY THE CAPACITY OF THE MEMBER, CONTRACTOR IS RESPONSIBLE FOR

MAX HEADER SPAN (FT.) NO. OF KING STUDS

VENEER LINTELS

 $3\frac{1}{2}$ "x $3\frac{1}{2}$ "x $\frac{1}{4}$ "

 $4"x3\frac{1}{2}"x\frac{1}{4}"$ 

 $5"x3\frac{1}{2}"x\frac{1}{4}"$ 

 $6"x3\frac{1}{2}"x\frac{1}{4}"$ 

UP TO 7'-0"

7'-0" TO 9'-0"

9'-0" TO 10'-0"

>10'-0"

NO. 22 GA x 1" WIDE CORRUGATED GALV. TIE @ 16" O.C. VERTICAL AND

MATCH STUD WALL SPACING HORIZONTAL. ATTACH TO STUD W/ (1) 10d -

EACH TIE. TIES SHALL BE INSTALLED WITHIN 12" OF WALL OPENINGS.

SHEAR WALL SHEATHING W/ WEATHER RESISTANT MEMBRANE

OR ASPHALT-SATURATED FELT - EXTERIOR SIDE

- STEEL ANGLE - SEE SCHEDULE ABOVE. BOLT LINTEL

TO HEADER W/ $\frac{1}{2}$ " DIA.x4" LAG SCREWS @ 16" O.C.

BEND TIE TO #9 GAUGEXCONT. GALV HORIZ. JOINT REINF. PLUG GROUT AT

VERTICAL AND MATCH STUD WALL SPACING HORIZONTAL, LOOP

END OF TIE INTO VENEER AND INSTALL #9 WIRE, 15" LONG, INTO

- NO. 22 GA x 1" WIDE CORRUGATED GALV. TIE @ 16" O.C.

LOOP W/ 2" RIGHT-ANGLE BEND @ EACH END OF WIRE

- ROCK VENEER

2x\_ STUDS PER PLANS

HEADER - SEE PLAN

BRICK VENEER W/ 1" MIN. AIR SPACE.

ANGLE SIZE (LLV) MIN. BRO

12"

WOOD SHEAR WALL NOTES 1. ALL EXTERIOR WALLS, INTERIOR WALLS INDICATED ON THE PLANS, AND VERTICAL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED WITH APA RATED 24/0 (OR BTR) CDX SHEATHING. TYPICAL NAILING SHALL BE AS INDICATED IN SHEAR WALL SCHEDULE NAIL ALL PANELS WITH INDICATED NAIL SIZE AT 12" O.C. ALONG INTERMEDIATE SUPPORTS

(6" O.C. NAILING WHEN STUDS ARE SPACED AT 24" O.C.) BLOCK ALL HORIZONTAL PANEL EDGES WITH A 2" NOMÍNAL OR WIDER FRAMING . ALL SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO ROOF OR FLOOR SHEATHING. BLOCK ALL PANEL EDGES AS NOTED ABOVE.

4. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR FRAMING TO HIGH ROOF FRAMING ON UPPER LEVEL EXTERIOR WALLS ABOVE A LOW ROOF

5. NAILS SHALL BE SPACED NOT LESS THAN  $\S^n$  FROM EDGES AND ENDS OF SHEATHING AND SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. GAP ALL SHEATHING & AT PANEL EDGES. 6. ANCHOR BOLTS FOR ALL SHEAR WALLS SHALL BE SIZED AND SPACED AS INDICATED IN "STUD AND SILL PLATE

REQUIREMENTS" DETAIL 7. STAPLES SHALL BE 16 GA (MIN.)  $\times$  1½" MIN. LENGTH W/ $\frac{7}{16}$ " MIN CROWN WHEN USED AT SHEARWALLS.

8. SHEATHING MAY BE INSTALLED IN VERT. OR HORIZ. ORIENTATION.  $\frac{1}{8}$ " GAP AT END JOINTS AND  $\frac{1}{16}$ " GAP AT SIDE JOINTS. 9. ALL EXTERIOR WALLS AND INTERIOR WALLS INDICATED ON PLANS SHALL BE SHEATHED AND NAILED AS \1/MIN. 10. SHEATHING EDGE NAILING REQUIRED AT ALL HOLDOWN POSTS. **OVERDRIVEN FASTENER NOTES:** 

SHEAR WALL SHEATHING NAILS SHALL BE DRIVEN FLUSH BUT NOT FRACTURE THE SURFACE OF THE SHEATHING. 1. NO REDUCTION IN SHEAR OR ADDITIONAL FASTENERS PROVIDED THAT: A FASTENERS UNIFORMLY OVERDRIVEN BY LESS THAN 1/20 B.FASTENERS RECESSED DUE TO SWELLING FROM MOISTURE

C.WHERE < 20% OF FASTENERS ARE OVERDRIVEN BY  $\frac{1}{8}$ " MAX. 2. WHERE > 20% OF FASTENERS ARE OVERDRIVEN, INSTALĽ ONE ADDITIONAL FASTENER FOR EVERY TWO. SPECIAL CARE SHOULD BE TAKEN SO THAT THE NAIL SPACING IS NOT LESS THAN 2" O.C.

WOOD POST AT HOLDOW! ANCHOR PER PLAN - (2) 2x\_ - STUDWALL 2x DOUBLE TOP PLATE HOLDOWN ANCHORS PER RIM JOIST 2x PRESSURE TREATED SILL PLATE (USE 3x TREATED PLATE FOR NAILING < 2" O.C.) FOUNDATION WALL PER PLANS INTERMEDIATE SHEAR PANEL SOLID 2x4 (MIN.) UPRIGHT AT EACH END OF SHEARWALL. ALIGN W/ SHEARWALL END WALL ELEVATION STUDS AND NAIL TO RIM BOARD W/ (6) 16d NAILS (MIN.) E.N. = EDGE NAILING (PERIMETER)

 $\langle$ A $\rangle$ FOR S.W. TYPES  $\stackrel{3}{\checkmark}$   $\stackrel{4}{\checkmark}$  LOCATE 3x\_ OR (2) 2x\_ STUDS @ ADJOINING PANEL JOINTS, BOTH HORIZONTAL AND VERTICAL. WITHIN SHEAR PANELS. (2) 2x STUDS TO BE FACE NAILED W/ 10d EACH FACE STAGGERED. MATCH SHEARWALL PANEL NAIL SPACING.

 $\langle$  B $\rangle$ LOCATE PANEL EDGES AT ALL PLATES, BLOCKING, SOLID RIM JOIST OR OTHER SOLID FRAMING MEMBERS.

SHEAR WALL DETAIL

SHEAR WALL SCHEDULE								
DESIGNATION	MATERIAL	8d NAILS SPA		8d NAILS SPACING 1½"		1½" 16 GA.	1 <sup>1</sup> / <sub>2</sub> " 16 GA. STAPLES	
	WATENAL	EDGE	FIELD	EDGE	FIELD			
1	$rac{7}{16}$ " STRUCTURAL II PLYWOOD OR OSB	6"	6" (12")	4"	6"			
2	$rac{7}{16}$ " STRUCTURAL II PLYWOOD OR OSB	4"	6" (12")	2 <u>1</u> "	6"			
3	76" STRUCTURAL II PLYWOOD OR OSB	3"	6" (12")	N/A	N/A			
4	$rac{7}{16}$ " STRUCTURAL II PLYWOOD OR OSB	2"	6" (12")	N/A	N/A			

1. FIELD NAILING IS TO BE 12" O.C. WHEN STUD SPACING IS 16" O.C. OR LESS. 2. ALL SHEAR WALLS ARE BLOCKED AT ALL FREE EDGES.

3. ALL ANCHOR BOLTS SHALL BE PER ASTM A307 AND HAVE 7" MIN. EMBEDMENT 4. WHERE SHEAR WALL PANELS ARE APPLIED TO BOTH FACES OF A WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. 5. FOR SHEAR WALLS "SW3" AND "SW4", ABUTTING PANEL EDGES ARE TO HAVE (2) 2x\_STUD STITCHED

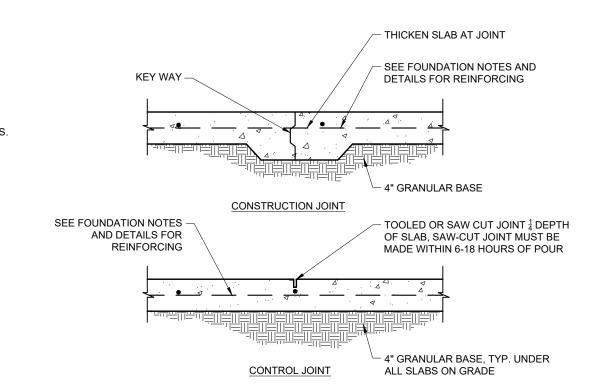
TOGETHER W/ 10d NAILS @ 6" O.C. TYPICAL SHEAR WALL SCHEDULE

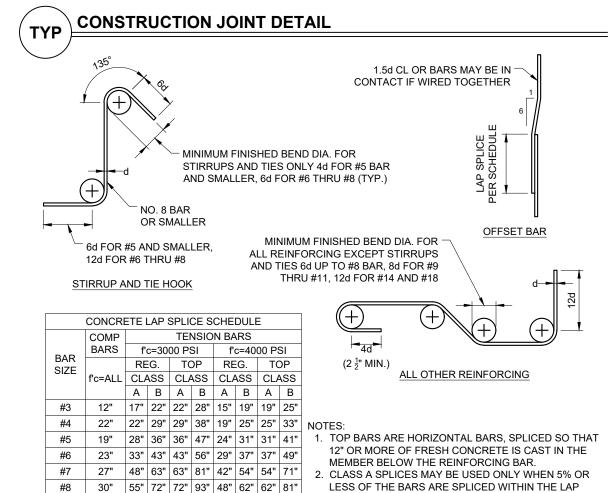
MINIMUM NAILING SCHEDU	ILE
CONNECTION	NAILING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 1'-4" O.C.
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOENAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOE NAIL	8d @ 6" O.C.
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 10d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2X RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	16d @ 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d @ 16" O.C.
TOP PLATE, LAPS AND INTERSECTION, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOE NAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOE NAIL	(3) 8d
1" BRACE TO EACH STUD AND PLATE, FACE NAIL	(2) 8d
BUILT UP CORNER STUDS	16d @ 24" O.C.
BUILT UP GIRDER AND BEAMS	20d @ 32" O.C. AT TOP AND BOTTOM AND STAGGERED. (2) 20d @ ENDS AND AT EACH SPLICE.
PLYWOOD AND OSB*	
SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	
$\frac{1}{2}$ " AND LESS	8d
$\frac{19}{32}$ " - $\frac{3}{4}$ "	8d OR 10d
<del>7</del> " - 1"	8d OR 10d
1 <mark>8</mark> " - 1 <mark>1</mark> "	8d OR 10d
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING)	
$\frac{3}{4}$ " AND LESS	6d
<u>7</u> " −1"	8d
11/8" - 11/4"	8d OR 10d

1. NAILING SCHEDULE IS PER CURRENT EDITION OF THE IBC. 2. NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON PLANS OR DETAILS. 3. ALL NAILS USED ARE COMMON NAILS.

ARE 48" OR MORE. REFER TO SHEAR WALL SCHEDULE - ON PLANS.

MINIMUM NAILING SCHEDULE

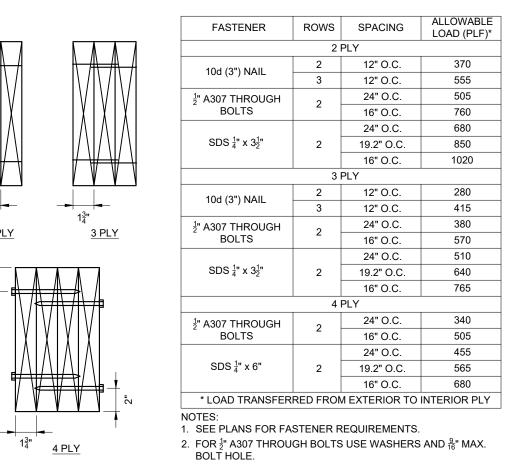






#10 | 39" | 79" | 91" | 91" | 118" | 61" | 79" | 79" | 102" |

#11 | 43" | 78" | 101" | 101" | 131" | 67" | 87" | 87" | 114" |

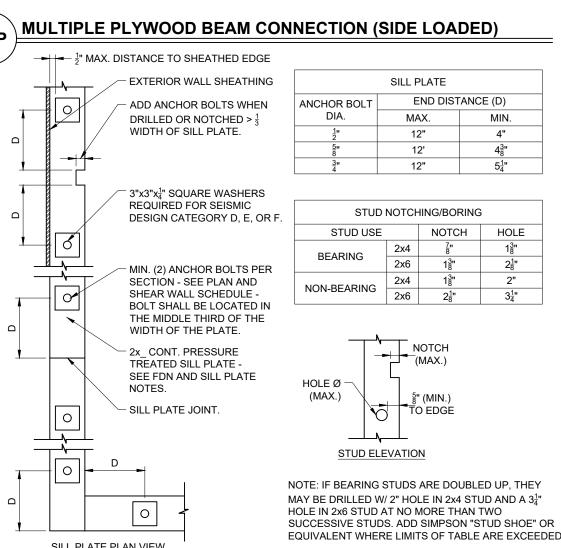


SPLICE LENGTH.

CLASS B SPLICES SHALL BE USED FOR ALL SPLICES IN

BEAMS, SLABS, JOISTS, WALLS, JAMB COLUMNS, AND





SILL PLATE PLAN VIEW STUD AND SILL PLATE REQUIREMENTS

7-6-20 SCALE: DRAWN BY: CHECKED BY: STAMP URQUHART

No. 10188152 DATE: 7-8-20 SHEET NO.

P: 801.426.6500 E: info@redwoodeng.com www.redwoodeng.com

REDWOOD

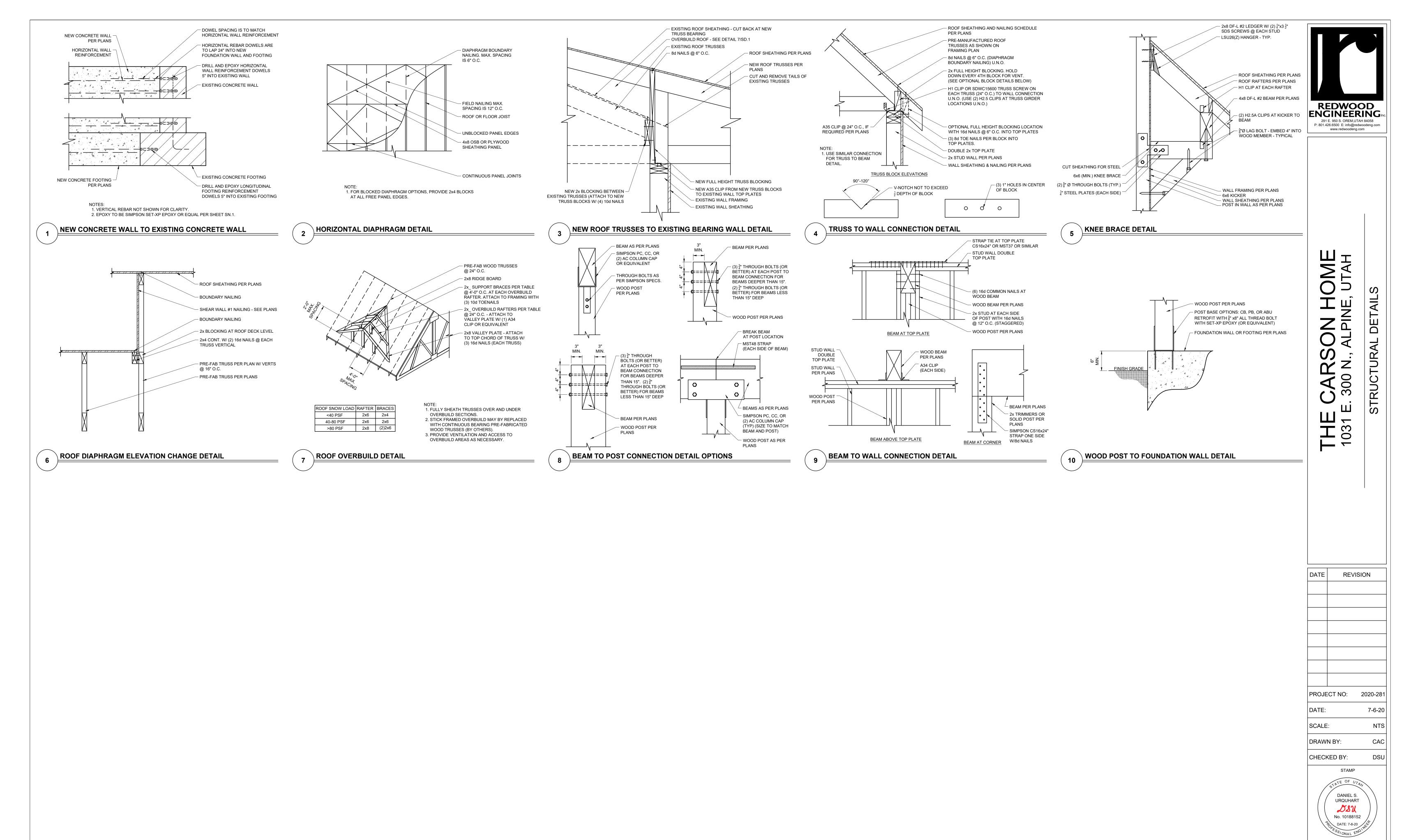
ENGINEERING

291 E. 950 S. OREM. UTAH 84058

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REVISION

PROJECT NO: 2020-281



SD.1



Structural Review for:

# The Carson Home

Located at:

1031 E. 300 N., Alpine, Utah

Date:

Wednesday, June 24, 2020

Job Identification:

2020-281



Redwood Engineering, Inc: 291 E. 950 S., Orem, Utah 84058

P: 801.426.6500 E: info@redwoodeng.com W: redwoodeng.com

#### **PLAN SUMMARY**

Structural Review for:

The Carson Home

Address:

1031 E. 300 N., Alpine, Utah

Job Identification: Code Used:

2020-281 2018 IBC

Prepared by:

Z. Larson

#### **General Notes**

This structural report and booklet is valid only for the aforementioned plan and address.

The Engineers wet seal is valid for the bound calculation booklet and may not be copied, reproduced, reused, sold to a third party, or altered in any way without the written consent of Redwood Engineering, Inc. This booklet is not valid if the binding is removed or tampered with in any way.

Notify Redwood Engineering, Inc. if there are any discrepancies with the intended building location and the address provided with this bound booklet.

Redwood Engineering Inc assumes no liability for these structural calculations unless an authorized Contract has been signed by the Client.

This calculation booklet is incomplete without the additional structural drawings that may be intended for this project. See the intended structural plans, structural notes and structural details that correspond to this project.

#### **LOADINGS SUMMARY**

Root		Floor 1 , Floor 2			2
Snow Load=	29.4	Live Load=	40.0	Live Load=	60.0
Dead Load=	15.0	Dead Load=	15.0	Dead Load=	15.0

Siesmic Category=

Ultimate Wind Speed=
Exposure=
Risk Category=

D
110
B
B
B

Risk Categor	ry (abbreviated)
1	Buildings w/ low hazard: agricultural, temporary, minor storage
11	All others except as listed
111	Buildings w/ substantial hazard; public, schools, health, jails, etc.
iV	Essential Facilities: Hospital, Emergency Bldg, Emerg. Shelter, etc.

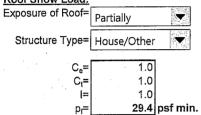
#### Roof:

**Ground Snow Load:** 

Elevation= 5083 ft P<sub>g</sub>= 42.0 psf

Note = Utah Snow Load to be deteremined by Case Study/Code Amendments

**Roof Snow Load:** 



Exposure	C <sub>e</sub>		
Fully	0.9		
Partially	1		
Sheltered	1.2	٠.	1

Thermal Factor	- Ct
House/Other	1.0
Barn	1.2

Roof Dead Load:

Roofing Material= Asphalt Shingles

Dead Load= 15 psf

Roofing Material - average psf		
Metal	15	
Asphalt Shingles	15	
Heavy Asphalt	20	
Tile	25	

#### Floor:

Floor 1 Live Load:

Occupancy or Use= Residential

Live Load= 40

Floor 1 Dead Load:

Flooring Design= Typical Subfloor

Dead Load= 15

Floor 2 Live Load:

Flooring Design= Balconies/Deck

Live Load=

60

Floor 2 Dead Load:

Flooring Design= Typical Subfloor

Dead Load=

15

#### Footing/Foundation Design:

Soil Bearing Capacity=	1500	psf
Frost Depth (min.)	30	in.
Soil Site Class=		(assumed)
Footing/Foundation fc=	2500	psi min.
Footing/Foundation Fy=	60000	psi
Geotechnical Report =	No	$lue{lue}$

Occupancy or Use - Floor (psf)		Flooring -	psf
Corridors/Public Rooms	100	Typical Subfloor	15
Garages (passenger)	40	Radiant Heating	25
Gymnasium	100	Not Used / Other	0
Office	50		
Office-Lobbies/Corridor	. 100	٠.	
Residential	40		
Balconies/Deck	60		
Not Used / Other	0		

Site Class	Soil Profile Name
Α	Hard Rock
В	Rock
С	Very Dense Soil and Soft Rock
D	Stiff Soil Profile
Ε	Soft Soil Profile
F	Other/Collapsalbe Soil, etc.

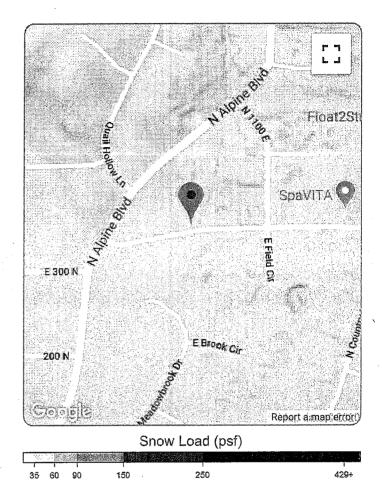
#### 2018 Utah Ground Snow Load Map





Latitude: 40.458 Longitude: -111.760 Elevation: 5,083 ft

Ground Snow Load: 42 psf / 2.03 kPa



\*This document is not legally binding. The user is urged to verify ground snow load values with the local authority having jurisdiction.

These ground snow load values represent 50-year ground snow load estimated value at a 2% probability of exceedance for the location given. The grid used in the map is 3350ft by 3350ft. Elevations for these grid cells were estimated by aggregating data from 100ft by 100ft USGS digital elevation models and may not coincide with the actual site elevation. These predictions are calculated using the process outlined in The Utah Snow Load Study.1

Final predictions given are bounded at a lower limit for a minimum ground snow load of 21 psf to meet ASCE 7. Estimated values for snow loads at elevations significantly higher than all nearby stations lead to unreasonably high snow load estimates, therefore, the predictions in the map are not allowed to extend beyond the highest 50-year station ground snow load of 429 psf. Elevations over 9,000 ft are also considered less accurate due to the limited number of stations at these elevations. The results shown in this report have included a warning if the results have reached or exceeded the upper limit.

While great efforts have been made to ensure these predictions are as accurate as possible, designers must use expert judgement to ensure that such predictions are appropriate for their particular project. The SEAU and the authors cannot accept responsibility for prediction errors or any consequences resulting therefrom.

1 Bean, Brennan; Maguire, Marc; and Sun, Yan, "The Utah Snow Load Study" (2018). Civil and Environmental Engineering Faculty Publications. Paper 3589.

made Nicola.com.

#### Seismic Loadings:

	1
S <sub>s</sub> =	1.36
S <sub>1</sub> =	0.51
Soil Site Class=	D
Risk Category=	11
<b> =</b>	] 1
F <sub>a</sub> =	1.20
F <sub>v</sub> =	1.79
S <sub>MS</sub> =	1.63
S <sub>M1</sub> =	0.91
S <sub>DS</sub> =	1.086
S <sub>D1</sub> =	0.609
Category Based on S <sub>DS</sub> =	D
Category Based on S <sub>D1</sub> =	D
Category Check=	N/A

Site Class	Fa
Α	0.8
В	0.9
С	1.2
D	1.0
E	1.2

<u> </u>	1.2	
S <sub>DS</sub>	Category	
<0.167g	Α	
<0.33g	В	
<0.5g	c	
I		

Site Class	Fν
Α	0.8
В	0.8
C	1.5
D	1.8
Е	2.2

S <sub>D1</sub>	Category
<0.067g	Α
<.0133g	В
<0.2g	С
>0.2g	D

Seismic Design Category=

Note: Geotechnical Report Recommended, Verify Fa and Fv

#### Wind Loadings:

 $\begin{array}{ll} & \text{Exposure=} \\ & \text{Roof Pitch=} \\ & \text{Topographic Factor } K_{zl} = \\ & \text{Basic Wind Speed (V)=} \\ & \text{Nominal Wind Speed (V}_{ASD}) = \\ & \text{Mean Roof Height (h)=} \\ & \text{H building (total)=} \\ & \lambda = \\ & \text{Angle=} \end{array}$ 

Ш	
6	/12
1	
110	mph
85	mph
15	ft
18	ft
1	
26.6	

Exposure:	
В	Urban and Suburban Areas
С	Open Terrain with Scattered Obstructions
D	Flat, Unobstructed Areas

	Α	В	С	D	E	F	G	H
p₅=[	12.9	8.8	10.2	7	1	-7.8	0.3	-6.7

p <sub>s30</sub>	А	В	С	D	E	F	G	Н
0 to 5	11.5	-5.9	7.6	-3.5	-13.8	-7.8	-9.6	-6.1
10	12.9	-5.4	8.6	-3.1	-13.8	-8.4	-9.6	-6.5
15	14.4	-4.8	9.6	-2.7	-13.8	-9.0	-9.6	-6.9
20	15.9	-4.2	10.6	-2.3	-13.8	-9.6	-9.6	-7.3
25	- 14.4	2.3	10.4	2.4	-6.4	-8.7	-4.6	-7.0
30 to 45	12.9	8.8	10.2	7.0	1.0	-7.8	0.3	-6.7

	λ
15	1.00
20	1.00
25	1.00
30	1.00
35	1.05
40	1.09
45	1.12
50	1.16
55	1.19
60	1.22

#### **Snow Drift Calculations:**

Input

<u>nput</u>	Not Req.	Not Req.
Roof Height Difference=	10	10
Length of Upper Roof lu (ft)=	50	50
Parapet (Y/N) =	No	No
hc (ft)=	8.49	8.49
λ=	19.46	19.46
h <sub>b</sub> =	1.51	1.51
Drift Height h <sub>d</sub> =	2.75	2.75
w check=	11.0	11.0
Max Drift Width=	67.91	67.91

**Output** 

· w (ft)=	11.0	11.0
Drift Surcharge (psf)=	53.6	53.6

Asphalt (	Shingles 4	sphalt Shingles	Asphalt Shingles	Asphalt Shingles	Asphalt Shingles Asphalt Shingles   Asphalt Shingle	Asphalt Shingle
	1.00	1.00	1.00	1.00		1.00
	1.00 <b>29.4</b>	1.00 <b>29.4</b>	1,00 29.4	1.00 <b>29.4</b>	1.00 <b>29.4</b>	1.00 <b>29.4</b>
	19	<u>4</u> r.	7.5	7.5	1, 4.5 15,5	
	0	0	0	0	0	0
	0	0	0	•	0	0
	0	0	0	0	0	0
	2	o Z	200	S.	2	No No
	<u> </u>	0	000 1	3 7 6	0 2 26	2400
	9.5	7	 2	3.75		
Solid	Solid Sawn #2	Glulam	Glulam	Glulam	Timber	Timber
	DF-L #2	24F-V4	24F-V4	24F-V4	DF-L#2	DF-L#2
	7.5	C	0 0	9 7 7	7.25	9.25
Andrew Services	0.0	9.143	(5.1.40)	0.1.50	And the second state of the second se	The transmission of the second
	1.00	1.00	1.00	1.00	1.00	1,00
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		1.00
	44	222	355	622	889	889
	0 0	00	0 0	0 0	o c	0.0
	5.7	6.7	6.7	6.7	. 4	0.9
	50.1	229	362	628		694
	476	1601	1784	2356	1559	2241
	476	1601	2530	2356	Ť	
	9.5	7.0	4.9	3.8		1.5
	2260	5603	4396	4418	1754	2581
	170	265	265	265	180	180
	27	82	135	126		121
0	o K	ð	Š	Š	Š	ş
	875.0	2400.0	2400.0	2400.0	0.006	
	32.8	42.2	42.2	42.2	26.3	
	31.0	28.0	22.0	22.1	23.4	34.4
0	S S	š	Š	o X	o Yo	중
	123.0	189.8	189.8	189.8		
	1300000	1800000	1800000	1800000		16
	1 267	0.570	0.12/	0.13	0.042	10.0
	9.5	7.		3.75		
		5	) }	` ``	ì	Č

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Project: 2020-281\_Carson, Jill Addition

Location: Roof Rafters

Roof Rafter

1.5 IN x 5.5 IN x 1.0 FT @ 24 O.C. #2 - Douglas-Fir-Larch - Dry Use Section Adequate By: 7938.1% Controlling Factor: Moment



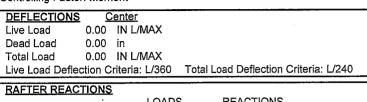
Zach Larson Redwood Engineering 291 E. 950 S. Orem, UT 84058



StruCaic Version 9.0.3.0

LOADING DIAGRAM

6/24/2020 2:16:59 PM



RAFTER REACTIONS			
•	<u>LOADS</u>	<u>REACTIONS</u>	
Upper Live Load @ A	15 plf	29 lb	
Upper Dead Load @ A	10 plf	20 lb	
Upper Total Load @ A	25 plf	49 lb	
Lower Live Load @ B	15 plf	29 lb	
Lower Dead Load @ B	10 plf	20 lb	
Lower Total Load @ B	25 plf	49 lb	

RAFTER SUPPORT DATA		
	<u>A</u> . <u>B</u>	
Bearing Length	0.05 in 0.05 in	•

RAFTER DATA	<u>terior</u>	
Span Length	ft	
Rafter Pitch	10	:12
Roof sheathing ap	lied to to	o of joists-top of rafters fully braced.
Roof Duration Fac	or 1.15	
Peak Notch Depth	0.00	
Base Notch Depth	0.00	

MATERIAL	<b>PROPERTIES</b>
#2 - Dougla	s-Fir-Larch

**Controlling Moment:** 

	<u>Base Values</u>	E	<u>\djusted</u>
Bending Stress:	Fb = 900 p	osi Fb'=	1547 psi
	Cd=1.15 CF=1.3	30 Cr=1.15	
Shear Stress:	Fv = 180 r	osi Fv'=	207 psi

Onour Choos.	• •			
	Cd=1.15			•
Modulus of Elasticity:	E = 1	600 ksi	E' =	1600 ksi
	- 1	005	- II .	005

Modulus of Elasticity: Comp. <sup>⊥</sup> to Grain:	_	1600 ksi 625 psi	

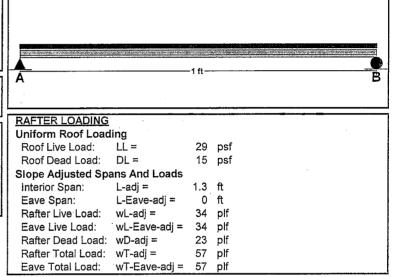
12 ft-lb

Created by combining	all dead loads and live loads on span(s) 2
Controlling Shear:	-11 lb
At a distance d from rig	ht support of span 2 (Center Span)

Created by combining all dead loads and live loads on span(s) 2

0.499 Ft from left support of span 2 (Center Span)

Comparisons with required sections:	Reg'd	Provided
•	0.09 in3	7.56 in3
Section Modulus:		
Area (Shear):	0.08 in2	8.25 in2
Moment of Inertia (deflection):	0.04 in4	20.8 in4
Moment:	12 ft-lb	975 ft-lb
Shear:	-11 lb	1139 lb



#### **NOTES**

			BR	ACED POS	TS	***********		UNE	RACED PO	STS	
		Cd=1.0 Cd=1.0									
	Post	8ft	9ft	10ft	11ft	12ft	8ft	9ft	10ft	11ft	12ft
P2	(2) 2x4	6340	5165	4240	3535	2985	N/A	N/A	N/A	N/A	N/A
РЗ	(3) 2x4	9510	7745	6360	5300	4475	N/A	N/A	N/A	N/A	N/A
P4	(4) 2x4	11800	9600	7900	6600	5600	N/A	N/A	N/A	N/A	N/A
	(2) 2x6	17935	15950	13935	12105	10515	N/A	N/A	N/A	N/A	N/A
	(3) 2x6	26905	23925	20900	18155.	15775	N/A	N/A	N/A	N/A	N/A
	(4) 2x6	34500	30500	26500	23000	20000	N/A	N/A	N/A	N/A	N/A
	4x4	N/A	N/A	N/A	N/A	N/A	6900	5600	4600	3850	3250
	6x6	N/A	N/A	N/A	N/A	N/A	17800	16700	15500	14200	12800
	3 1/2" x 5 1/4" PLP	32500	28000	23750	20000	17200	N/A	N/A	N/A	N/A	N/A
	5 1/4" x 5 1/4" PLP	49000	42000	35500	30200	25700	N/A	N/A	N/A	N/A	N/A
_	8x8	N/A	N/A	N/A	N/A	N/A	36400	35500	34400	33000	31500
	10x10	N/A	N/A	N/A	N/A	N/A	60000	59500	58500	57000	56000

#### TYPICAL SPOT FOOTING CHART

	Size	Reinforcement	Max. Loading (lbs.)
FT3	24"x24"x10"	(3) #4 bars each way	6000
FT4	30"x30"x10"	(3) #4 bars each way	9300
FT5	36"x36"x10"	(4) #4 bars each way	13500
FT6	42"x42"x12"	(5) #5 bars each way	18300
FT7	48"x48"x12"	(5) #5 bars each way	24000

#### BEAM SCHEDULE

#### Notes:

- 1 Beams may be substituted with beams of the same type with increased dimension sizes for building or architectural purposes 2 All non-designated headers are to be (2) 2x10 DF-L #2 or (1) 4x10 DF-L #2 U.N.O.

Label	Number	Size	Material	
RB1	1	4 x 8	DF-L #2	_
RB2	1	3 1/8" x 9"	Glulam	
RB3	2	2 x 8	DF-L #2	
RB4	2	2 x 10	DF-L #2	

#### SCHEDULE SUMMARY

#### Post Schedule

	Size
P1	One Trimmer/Stud
P2	Two Trimmers/Studs
P3	Three Trimmers/Studs
P4	Four Timmers/Studs
P5	4x4 DF-L #2
P6	6x6 DF-L #2
P7	3 1/2" x 5 1/4" Parallam
P8	5 1/4" x 5 1/4" Parallam
P9	8x8 DF-L #2
P10	10x10 DF-L #2

- Notes: 1. See general structural notes sheet (SN.1) for typical bearing
  - post requirements.
    2. Posts indicate number of trimmers when specified as headers.

  - All other post designations refer to full height king studs.

    3. Install (2) trimmers (min.) each side of header greater than
  - 6'-0" in length.
  - 4. Install (2) king studs (min.) each side of header on openings greater than 4-0". See sheet SN.1 for min. king stud requirements. 5. Install (2) king studs (min.) at all holdown locations or as

  - noted on holdown schedule. (UNO)

#### **Footing Schedule**

	Size	Reinforcement	Crosswise
FT1	20"x10"xcont.	(2) #4 bars cont.	None
FT2	18"x10"xcont.	(2) #4 bars cont.	None
FT3	24"x24"x10"	(3) #4 bars each way	
FT4	30"x30"x10"	(3) #4 bars each way	
FT5	36"x36"x10"	(4) #4 bars each way	
FT6	42"x42"x12"	(5) #5 bars each way	
FT7	48"x48"x12"	(5) #5 bars each way	

- Notes:

  1. See general structural notes sheet (SN.1) for typical footing requirements.

  2. All footings are to bear below the frost line of the locality (30" min. UNO).

  3. Provide j-bars to match vertical wall reinforcement.

  4. Coninuous footings shall be centered under walls and spot footings shall be centered under columns (UNO).

#### Shearwall Schedule

		8d Nails	Spacing	1 1/2" GA	. Staples
	Material	Edge	Field	Edge	Field
SW1	7/16" Struct. II Plywood or OSB	6"	6" (12")	4"	6"
SW2	7/16" Struct. II Plywood or OSB	4"	6" (12")	2 1/2"	6"
SW3	7/16" Struct. II Plywood or OSB	3"	6" (12")	N/A	N/A
SW4	7/16" Struct, Il Plywood or OSB	2"	6" (12")	N/A	N/A_

- Notes: 1. Field nailing is to be 12" o.c. when stud spacing is 16" o.c. or less.

Soil

- 1. Field nating is to be 12" o.c. when stud spacing is 10 o.c. or less.

  2. All Shear Walls are blocked at all free edges with stud framing at 24" o.c. UNO.

  3. All Anchor Bolts shall be per ASTM A307 and have 7" min. embedment.

  4. Where Shear Wall panels are applied to both faces of a wall, panel joints shall be offset to fall on different framing members.

  5. For Shear Walls "SW3" and "SW4", abutting panel edges are to have (2) 2x\_ studs stitched together w/ 16d sinkers @ 6" o.c.

#### Design Criteria

Governing Code	2018 IBC	Soil Bearing Capacity	1500
		Site Class	D
Roof Loadings			
Ground Snow Load	42.0	Seismic	
Roof Snow Load	29.4	Seismic Design Category	D
Roof Dead Load	15.0	Importance Factor	1.0
Floor Loadings		Wind	
Floor Live Load	40.0	Ultimate Wind Speed (mph)	110
Floor Dead Load	15.0	Exposure	В



### **Planning Commission Agenda**

**Application Form** 

20 North Main Alpine, UT 84004 ● 801-756-6347 (Phone) ● 801-756-1189 (Fax) ● www.alpinecity.org

All materials must be submitted to the City Planner at least 14 days prior to the Planning Commission

meeting for which you want to be scheduled.
Name Chris HI - IRON HOGG CO. 2-26-2021
Address 931 S- 14M. 1FLS WW.
Phone 80/ 750 555/ Fax Email Wonridge construction
Subject for Discussion: (The more specific you are, the better prepared the Planning Commission will be to discuss your request.)
variance for a front porch iddition
Currently the home at the front left when.
is only approx 11-0 Set back we are proposit
a orch addition that will be inline w/
the house and will only be 10-3 setton
wather that 12' we are asking for a
variance to allow for this porch.
Location 103   E. 300 N.

Please attach any necessary maps, plats, documentation, stamped and addressed envelopes for notification, etc.

#### ALPINE PLANNING COMMISSION AGENDA

**SUBJECT:** Final Plat – The Ridge at Alpine Phase 5

FOR CONSIDERATION ON: 16 March 2021

PETITIONER: Paul Kroff representing SBC Holdings Inc.

ACTION REQUESTED BY PETITIONER: Review and approve the final plat.

#### **BACKGROUND INFORMATION:**

The Ridge at Alpine Subdivision consists of 72 lots on 189.5 acres, with this Phase 5 being 29 lots on 25.91 acres. The development is located in the CR 40,000 zone, west of the Alpine Cove subdivision and north east of Heritage Hills Plat A. A map is attached showing Phase 5 and how it correlates to the rest of the development. The Ridge at Alpine has been approved as a Planned Residential Development (PRD).

Phase 1 of The Ridge at Alpine was approved by the City Council on October 23, 2019. Trails, open space, and conservation easement were approved with the Phase 1 Plat. Phase 2 was approved on August 13, 2019, Phase 3 on May 12, 2020, and Phase 4 on November 24, 2020. The applicant is now seeking approval of Phase 5 of The Ridge at Alpine Subdivision.

#### **STAFF RECOMMENDATION:**

Review staff report and findings and make a recommendation to City Council to either approve or deny the proposed subdivision.

#### SAMPLE MOTION TO APPROVE WITH CONDITIONS:

I motion to recommend approval of the proposed The Ridge at Alpine Phase 5 with the following conditions:

- The Developer:
  - Address setbacks per the rockfall study recommendations;
  - o meet the water policy with Alpine Irrigation Co. shares;
  - \*\*insert finding\*\*

#### **SAMPLE MOTION TO TABLE/DENY:**

I motion to table (or recommend denial) of the proposed The Ridge at Alpine Phase 5 with the following conditions:

• \*\*Insert finding\*\*



#### ALPINE CITY STAFF REPORT

March 12, 2021

**To:** Alpine City Planning Commission & City Council

From: Staff

Prepared By: Austin Roy, City Planner

Planning & Zoning Department

Jed Muhlestein, City Engineer

Engineering & Public Works Department

Re: The Ridge at Alpine Phase 5 – Final

Applicant: Paul Kroff, representing SBC Holdings Inc.

Project Location: North of Elk Ridge Lane and west of Alpine Cove

Zoning: CR-40,000 Zone Acreage: 25.91 Acres

Lot Number & Size: 29 lots ranging from 0.50 acres to 1.45 acres

Request: Approve the Final Plat

#### **SUMMARY**

The Ridge at Alpine Subdivision consists of 72 lots on 189.5 acres, with this Phase 5 being 29 lots on 25.91 acres. The development is located in the CR 40,000 zone, west of the Alpine Cove subdivision and north east of Heritage Hills Plat A. A map is attached showing Phase 5 and how it correlates to the rest of the development. The Ridge at Alpine has been approved as a Planned Residential Development (PRD).

#### **BACKGROUND**

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#### **ANALYSIS**

#### Lot Width and Area

Lot width requirements for the CR-40,000 zone are 110 feet for a standard lot as measured at the 30 foot front setback line, and 80 feet for a cul-de-sac lot located on a curve as measured at the

right of way line, and 110 feet as measured at the 30 foot front setback line. All proposed lots meet the width requirements.

Minimum lot size for a lot in a PRD in the CR-40,000 zone is 20,000 square feet, with the smallest proposed lot on the plat being 0.50 acres or 21,629 square feet. The plat meets area requirements.

#### Use

The developer is proposing that the lots be used for single-unit detached dwellings, which is consistent with the permitted uses of the CR-40,000 zone.

#### Sensitive Lands (Wildland Urban Interface)

See Engineering and Public Works Review below

#### Trails

There are no trails in Phase 5. All trails were recorded with Phase 1 of the development.

#### General Plan

The proposed final plat meets criteria of the City General Plan.

#### Existing Buildings

There appears to be no existing buildings on the proposed area for Phase 5 development.

#### **NOTICING**

Notice has been properly issued in the manner outlined in City and State Code

#### **REVIEWS**

#### PLANNING AND ZONING DEPARTMENT REVIEW

The analysis section in the body of this report serves as the Planning and Zoning Department review.

#### LONE PEAK FIRE DEPARTMENT REVIEW

See the attached review from the Lone Peak Fire Department.

#### ENGINEERING AND PUBLIC WORKS DEPARTMENT REVIEW

#### Streets

Phase 5 of The Ridge at Alpine will complete the roadway system for the development. This includes connecting Oak View Drive to the Alpine Cove area. Road design appears to be in compliance with city ordinances and nothing has changed in that regard from what has been previously reviewed and approved.

#### *Utilities – Culinary Water*

The culinary system was discussed at length during Preliminary approval meetings, the details are included below for information only. There is one change from the preliminary submittal

regarding culinary water; the plat shows a twenty (20) foot waterline public utility and drainage easement along the east side of the development. The Developer is reserving this area for potential use of a future waterline. Other than this easement, there has been no change in the culinary design from Preliminary submittal.

The subdivision is very close to the 5,350-foot elevation, which is the highest elevation the existing water system can serve and still provide the minimum 40 psi required by ordinance. The culinary water master plan calls for a new 10-inch main to be installed from the Grove tank to the 90-degree bend in Grove Drive that would provide minimum fire flows to the area. The development agreement specifies it is the responsibility of the developer to bring offsite utilities to the development (section 4.2.1). Discussions have indicated that the size of homes desired in the upper portion of the development may require a larger line to meet the fire protection demands. The developer has elected to install a 16-inch line (instead of the 10-inch) and a 12-inch line extending northward to the end of Dean Court, which increases fire flows to 2,750 gpm. With 2,750 gpm available fire flow, the maximum sized home to be built without the need for fire sprinklers or alternate construction materials would be 11,300 square feet based on the International Fire Code. Because the homes are located within the Urban/Wildland Interface, the Fire Chief may still require fire sprinklers.

The fire flow for this development was dependent upon the completion of the water system improvements in Three Falls and Fort Canyon Road. These improvements are complete and in operation.

1-inch laterals with <sup>3</sup>/<sub>4</sub>-inch meters are required, and shown, for each new lot.

An 8-inch main will be installed in Oak View Drive with associated fire hydrant at the intersection of Oak View Drive and Alpine Cove Drive.

The Fire Chief has reviewed and approved the culinary system design.

#### *Utilities – Pressurized Irrigation*

The pressurized irrigation system was discussed at length during Preliminary approval meetings. There has been no change in the pressurized irrigation design from Preliminary submittal.

New 1-inch laterals are shown to be installed for each new lot. Horrocks Engineers has modeled the site and recommends 6-inch lines throughout Phase 5.

#### *Utilities – Sewer*

All lots within Phase 5 will be fed by a gravity sewer system. 8-inch main lines and 4-inch laterals are shown in the roads and to each new lot, respectively. The main lines connect to Phase 2 of the development. This was reviewed and approved at Preliminary.

#### *Utilities – Storm Drain*

The storm drain design for Phase 5 includes catch basins and main pipes in the roadway which connect to the previously built phases of the development. The detention pond, built in Phase 4, was sized to handle the stormwater runoff from this phase.

It was discussed at previous meetings the requirement to pipe the overflow waters of School House Springs through the development with a 30-inch pipe. The majority of this pipe was built in previous phases; this phase includes the completion of piping School House Springs through the development.

A Land Disturbance Permit would be required prior to construction which ensures a Storm Water Pollution Prevention Plan (SWPPP) is followed. All disturbed areas of the site are required to be revegetated after construction.

The storm drain system was discussed at length at Preliminary. For information purposes the details of that are included below.

The storm water system design and drainage report has been submitted, reviewed, and approved with some redline comments. There are four main topics to cover concerning storm water.

1. School House Springs Drainage and Existing Irrigation Ditches.

The school house springs drainage enters Alpine City on the top west side of Alpine Cove. From there it travels southward until it enters the Zolman property. Section 4.7.19 of the development code requires existing ditches to be piped. A 30-inch pipe is proposed to capture this drainage and route it through the property.

The Northfield Ditch also runs through the property. This ditch has been abandoned and therefore will not be required to be piped through the property. The plans require welding a metal plate at the upstream head gates to ensure water will not enter the abandoned ditch.

#### 2. Onsite Drainage.

Onsite drainage consists of a piped system to capture and route water to three different detention basins. Each basin is designed for the 100-yr storm event which releases water to the existing drainages in the area. On Catherine Way there is a low point in the road which would cause flooding problems for events greater than a 10-year storm. Because of this a drainage swale is proposed between lots 44, 45 and 49, 50. The swale would adequately route larger storm event flows to the pond south of Annie Circle without causing a flooding risk for the nearby homes. This swale should remain open, no fences allowed. Notes to be placed on Final Plat for that phase.

#### 3. Hillside/Offsite Drainage.

The geotechnical report highlighted the issue of debris flows that would enter the development from the west side in the event of post fire flows or heavy rainfall events. The Developer contracted with IGES to design debris flow nets to capture these flows and mitigate the potential problem. The nets are designed to capture the debris, water would be allowed to pass through the nets and continue down the drainage. The water that passes the nets would follow Savannah Cir, Elk Ridge Lane, Zachary Way, and Annie Circle to make its was to the detention pond. Calculations have been done to show that the homes along this route would not be flooded in the event of a post fire situation if they were required to build at least 1.75 feet above the curb. A note will be placed on the final plat for the appropriate phases and checked prior to Final Approval for this requirement. The Drainage Reports and IGES design for debris flow nets were attached to the Preliminary report and can be found there.

#### 4. Low Impact Development.

March 1, 2016, the State of Utah implemented into the General MS4 Permit (Small Municipal Separate Storm Sewer Systems) the requirement of all developments to evaluate Low Impact Development (aka - LID) for their site. LID is a measure of handling storm water and improving water quality. LID emphasizes conservation and the use of on-site natural features to protect water quality. There are many ways to meet the LID requirement. LID can be met by the use of drainage swales, rainwater harvesting, curb cuts to direct water to smaller local basins, and so on. The developer shows in the storm water calculations that LID will be implemented at the building permit level with each new lot retaining the 90th percentile storm, which equates to about a 2-year, 1-hr rainfall event for Alpine City. This is something Alpine is doing for all new homes within the city as required by the State. This is not done just as a measure of protecting water quality, but also protecting against runoff from one property to another.

#### Geotechnical Report

The proposed development falls within the Geologic Hazards Overlay Zone as well as the Urban/Wildland Interface. The developer provided a Geotechnical Report, it was included at Preliminary and discussed in depth there. The report mentions an area of mass grading and fill of an existing ravine that ran through the property along the westerly borders. The City has no records of compaction or what type of material was used to fill the ravine. This is classified as undocumented fill which is not suitable for building roads or constructing home foundations on. The report focused attention to this area and has provided recommendations for building there; mainly over excavation and import of engineered fill to remedy any potential settlement. The report is listed on the Phase 5 plat to warn future lot buyers.

#### Hazard Reports

The Developer contracted with IGES to provide further information regarding certain hazards. The report covers rock fall and debris flow in more depth. This report was discussed at Preliminary approvals. It was determined that there is a low to moderate rock fall hazard for most the lots along the westerly side of the development. Also, ordinance does not allow development "within fifty (50) feet of slopes in excess of forty (40) percent, areas subject to landsliding, or other high-hazard geologic areas... (DC 3.12.09.4.E). Phase 5 includes the lots that these reports and ordinance reference. There are (40) forty percent slopes on the north west side of Phase 5. The plat shows buildable areas with appropriate slope setbacks but does not appear to reflect setbacks mentioned in the rockfall study; this will need corrected prior to recording.

#### <u>Other</u>

The City water policy needs to be met prior to recordation of the plat. The Development Agreement specifically requires Alpine Irrigation Company shares be used to meet the water policy.

A construction cost estimate for Phase 5 shall be turned in to the City Engineer for bonding purposes.

Alpine City specifications require escrow funds for a roadway preservation coat (See Alpine City Construction Standard Specifications 300.030 & 600.020). The amount for this requirement will be calculated based on current preservation coat costs at the time of recording. The funds for this roadway preservation coat will be required of the Developer prior to recording.

#### **STAFF RECOMMENDATION**

Review staff report and findings and make a recommendation to City Council to either approve or deny the proposed subdivision. Findings are outlined below.

Findings for a Positive Motion:

- A. The plan aligns with previous approvals for The Ridge at Alpine;
- B. Proposed roadway construction appears to meet Alpine City design standards and makes an important connection to the Alpine Cove area;
- C. The plat and plans reflect important information regarding undocumented fill, the rock fall study, and building within fifty (50) feet of slopes steeper than forty (40) percent.

Findings for Negative Motion:

A. \*\*Insert finding\*\*

#### **MODEL MOTIONS**

#### SAMPLE MOTIONS TO APPROVE

I motion to recommend approval of the proposed The Ridge at Alpine Phase 5 with the following conditions:

- The Developer:
  - o Address setbacks per the rockfall study recommendations;
  - o meet the water policy with Alpine Irrigation Co. shares;
  - o \*\*insert finding\*\*

#### SAMPLE MOTION TO TABLE or DENY

I motion to table (or recommend denial) of the proposed The Ridge at Alpine Phase 5 with the following conditions:

\*\*Insert finding\*\*

# THE RIDGE AT ALPINE PHASE 5

MARCH 2021

# A RESIDENTIAL DEVELOPMENT

ALPINE, UTAH

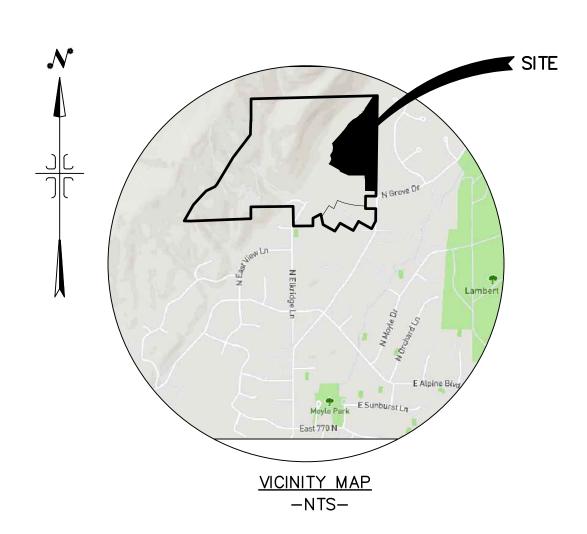
# **GENERAL**

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR REQUIREMENTS OF THE ALPINE CITY PUBLIC WORKS DEPARTMENT.
- 2. A PRE CONSTRUCTION CONFERENCE WILL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO START OF WORK. ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS, ALPINE CITY PUBLIC WORKS AND CITY'S ENGINEER SHOULD BE PRESENT.
- 3. ALL LOT DIMENSIONS, EASEMENTS AND CERTAIN OFF SITE EASEMENTS ARE TO BE TAKEN FROM THE PLAT OF THE RIDGE AT ALPINE PHASE 5.
- 4. ALL CONSTRUCTION STAKES MUST BE REQUESTED A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO PLANNED USE.
- 5. CERTAIN CONTROL POINTS WILL BE SET BY THE ENGINEER, OR HIS REPRESENTATIVE, WHICH ARE CRITICAL TO THE CONSTRUCTION STAKING OF THE PROJECT. THESE POINTS WILL BE DESIGNATED AT THE TIME THEY ARE SET AND THE CONTRACTOR SHALL BE NOTIFIED. DESTRUCTION OF THESE POINTS BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE GROUNDS FOR CHARGING THE CONTRACTOR FOR REESTABLISHING SAID POINTS.
- 6. ALL CUT & FILL SLOPES NOT INCLUDED IN LOTS TO BE REVEGITATED WITH BROADCAST SEEDS TO MEET CITY STANDARDS UNLESS NOTED OTHERWISE.
- 7. THIS SITE CONTAINS LARGE AREAS OF UNDOCUMENTED FILL. PER IGES REPORT DATED 8-23-16, WHEN UNDOCUMENTED FILL IS ENCOUNTERED, OVER EXCAVATE 24 INCHES AND PLACE A-1-a MATERIAL.

# ROADWAY/STORM DRAIN

- 1. ALL ROADWAY CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF ALPINE CITY'S TECHNICAL SPECIFICATIONS OR AS APPROVED IN THE PLANS HEREIN.
- 2. WHEN DISCREPANCIES OCCUR BETWEEN PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. UNTIMELY NOTIFICATION SHALL NEGATE ANY CONTRACTORS CLAIM FOR ADDITIONAL COMPENSATION.
- 3. ALL STORM DRAIN PIPES TO BE RCP CLASS V OR APPROVED EQUAL UNLESS OTHERWISE

# CONDITIONS OF APPROVAL



# -INDEX OF PLAN SHEETS-

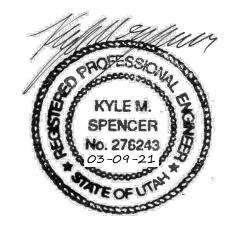
SHEET	DESCRIPTION
1 2 3 4 5 6 PP-01 PP-03 PP-04 PP-05 PP-06 PP-07 PP-08 DT-01 DT-02 ECP-01 ECP-02	COVER SHEET AND NOTES OVERALL PHASING PLAN FINAL PLAT SITE PLAN UTILITY & INDEX SHEET GRADING & DRAINAGE PLAN STREET PLAN & PROFILE - DEAN CT. 10+00 - 16+00 STREET PLAN & PROFILE - DEAN CT 16+00 - 21+50 STREET PLAN & PROFILE - DEAN CT. 21+50 - 26+51.47 STREET PLAN & PROFILE - ELK RIDGE LANE 15+19.44 - 20+00 STREET PLAN & PROFILE - ELK RIDGE LANE 20+00 - 23+00 STREET PLAN & PROFILE - ELK RIDGE LANE 23+00 - 26+39.81 STREET PLAN & PROFILE - OAK VIEW DRIVE STREET PLAN & PROFILE - OFFSITE 30' STORM DRAIN DETAILS ADA RAMP DETAILS EROSION CONTROL PLAN EROSION CONTROL PLAN

## SEWER

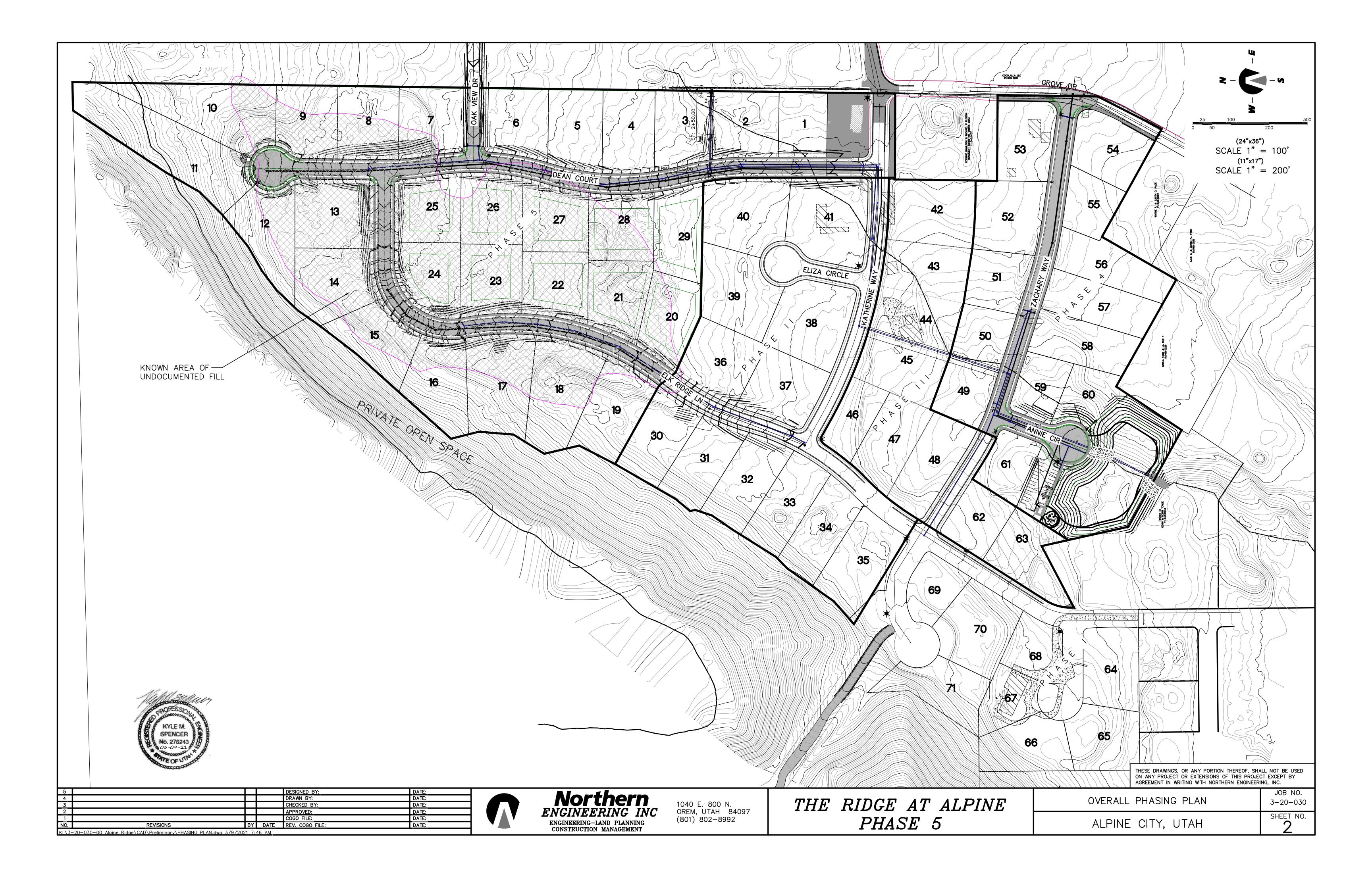
- 1. ALL WORK SHALL BE DONE INACCORDANCE WITH THE LATEST ALPINE CITY DESIGN STANDARDS & PUBLIC IMPROVEMENT SPECIFICATIONS DRAWINGS OF ALPINE CITY.
- 2. FINAL APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION WILL BE BY ALPINE CITY.
- 3. UPON THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT 3 SETS OF AS-BUILT PLANS TO ALPINE CITY & (1) SET TO NORTHERN ENGINEERING, INC.
- 4. HORIZONTAL AND VERTICAL SEPARATION OF CULINARY WATER AND SEWER SHALL BE IN COMPLIANCE WITH ALPINE CITY STANDARDS

# WATER

- 1. THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH THE STANDARDS SET FORTH IN THE "UTAH REGULATIONS FOR PUBLIC DRINKING WATER SYSTEMS", AND THE ALPINE CITY PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS AND DRAWINGS.
- 2. CONTRACTOR SHALL NOTIFY NORTHERN ENGINEERING, INC. THREE (3) WORKING DAYS BEFORE INITIAL CONSTRUCTION BEGINS AND SHALL ALSO REQUEST ALPINE CITY WATER DEPARTMENT INSPECTION OF WATER LINES AND APPURTENANCES TWENTY—FOUR (24) HOURS IN ADVANCE OF BACKFILLING.
- 3. CONTRACTOR TO FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ASSURE THAT SAID LID ELEVATIONS MATCH FINAL STREET GRADE, AND ALL METER LID ELEVATIONS TO MATCH AN EXTENSION OF THE SIDEWALK GRADE.
- 4. UPON THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT 3 SETS OF AS-BUILT PLANS TO ALPINE CITY & (1) SET TO NORTHERN ENGINEERING, INC.
- 5. WATER VALVE LIDS ARE TO BE LABELED "WATER" FOR CULINARY VALVES
- 6. HORIZONTAL AND VERTICAL SEPARATION OF CULINARY WATER AND SEWER SHALL BE IN COMPLIANCE WITH
- 7. WATERLINES TO BE BEDDED IN GRANULAR MATERIAL. A MIN. OF 8" COVER OVER TOPS OF PIPE IS REQUIRED TO AVOID PENETRATION OF SUB BASE FROM ABOVE.







8. THIS PLAT CONTAINS PROPERTIES LOCATED WITHIN THE URBAN/WILDLAND INTERFACE, PROPERTIES LOCATED WITHIN THIS AREA MAY BE

C52

11.41' | 623.00'

N38°08'06"E | 1°02'59"

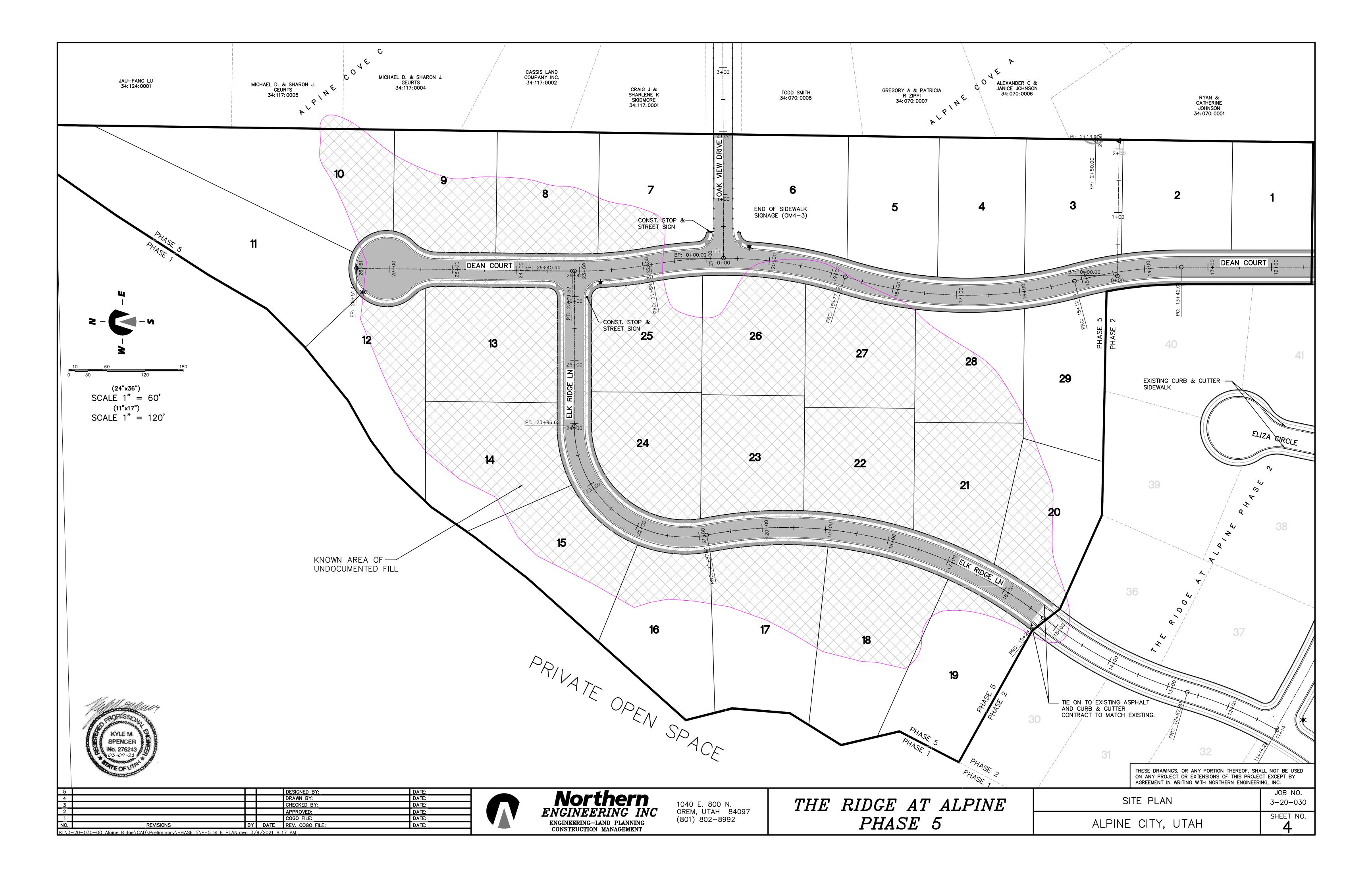
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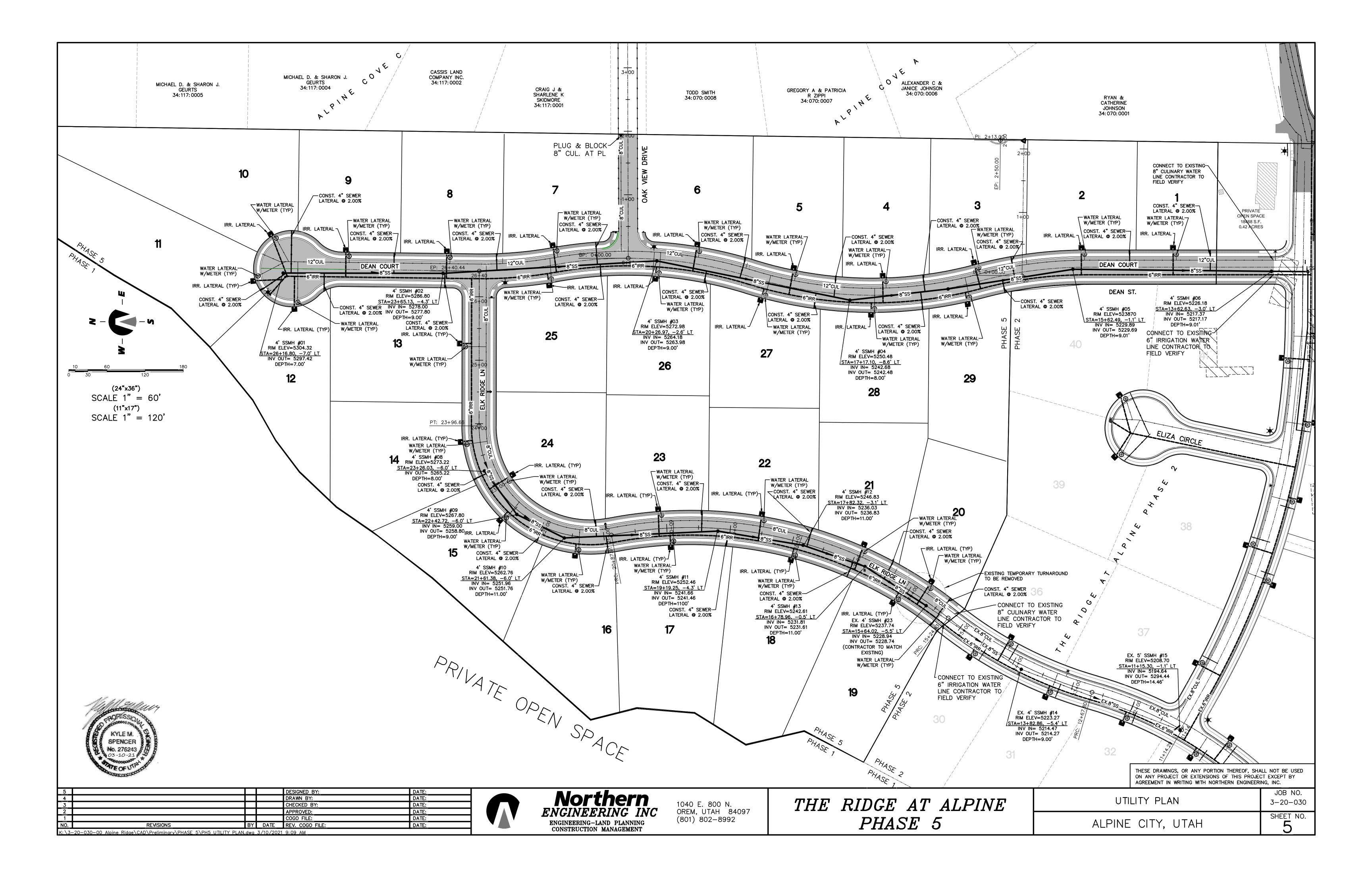
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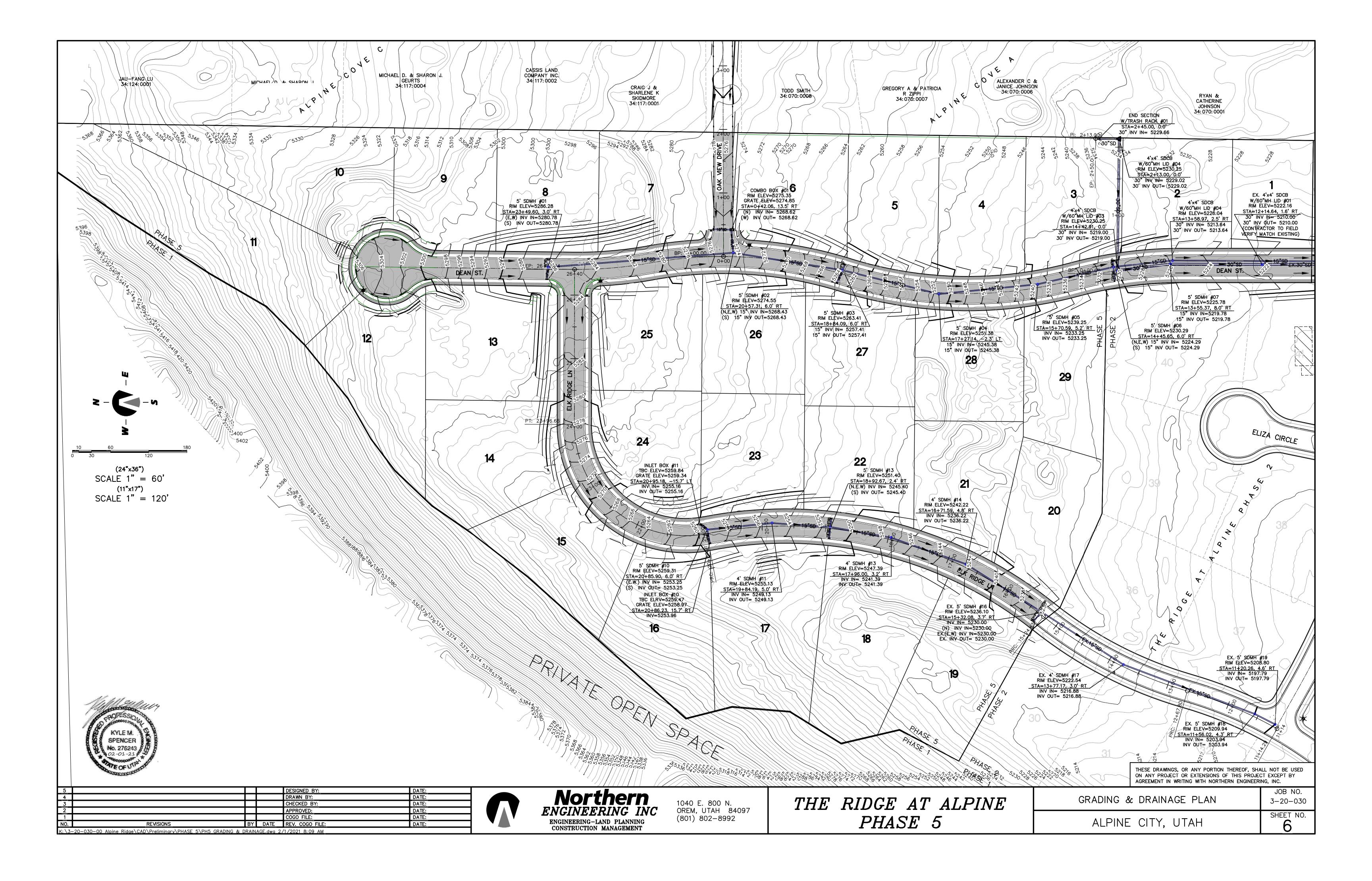
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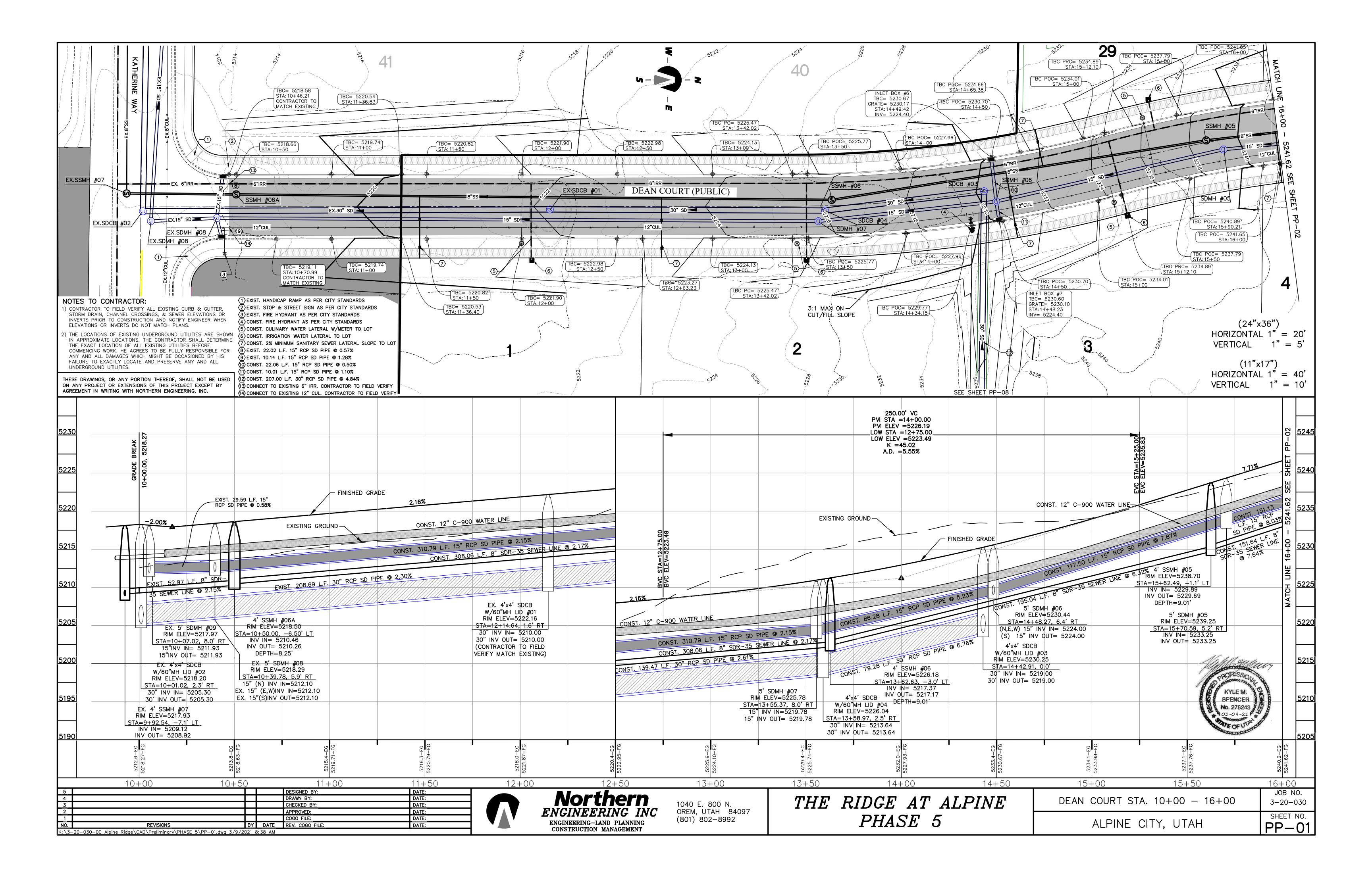
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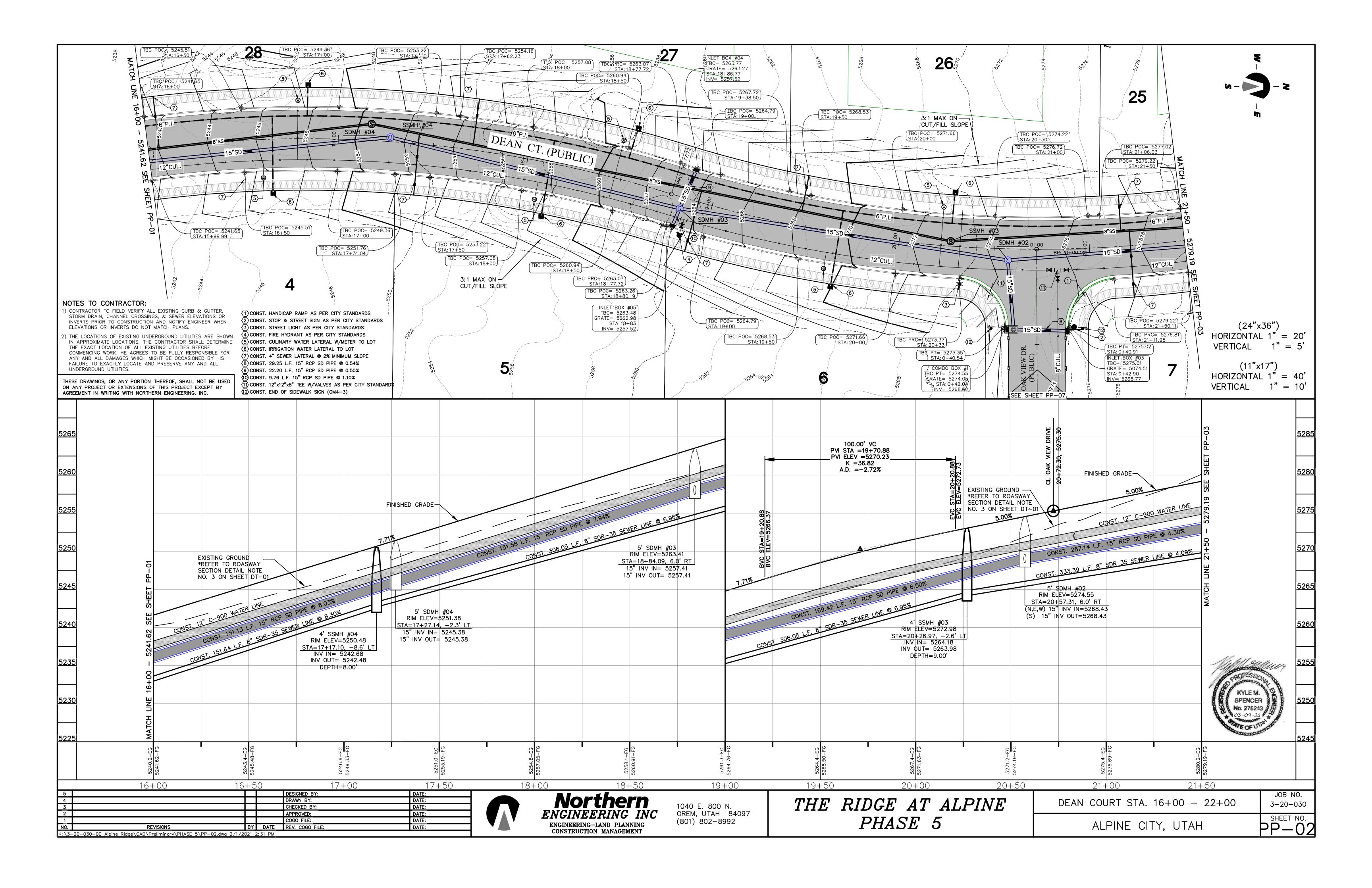
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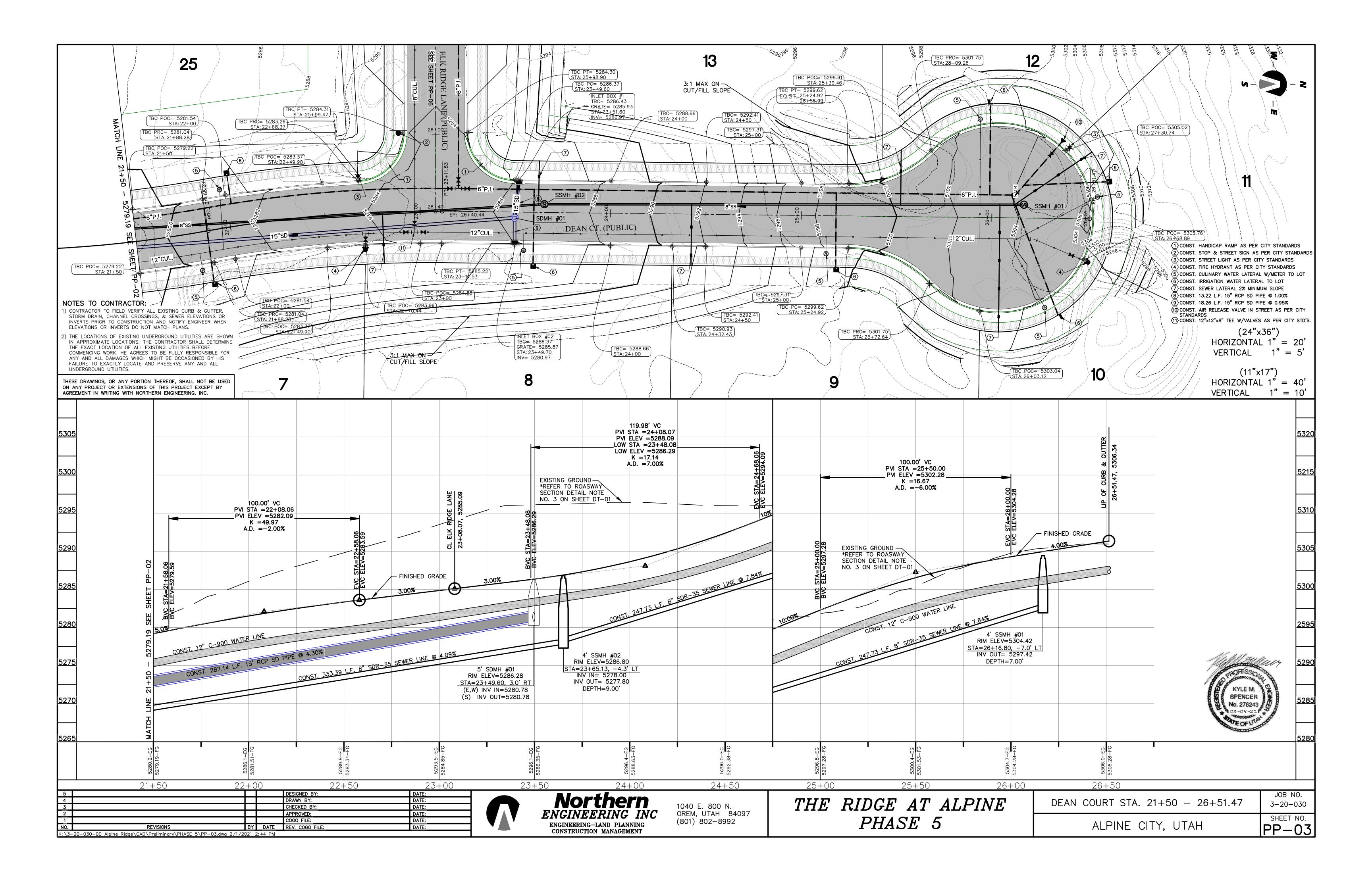


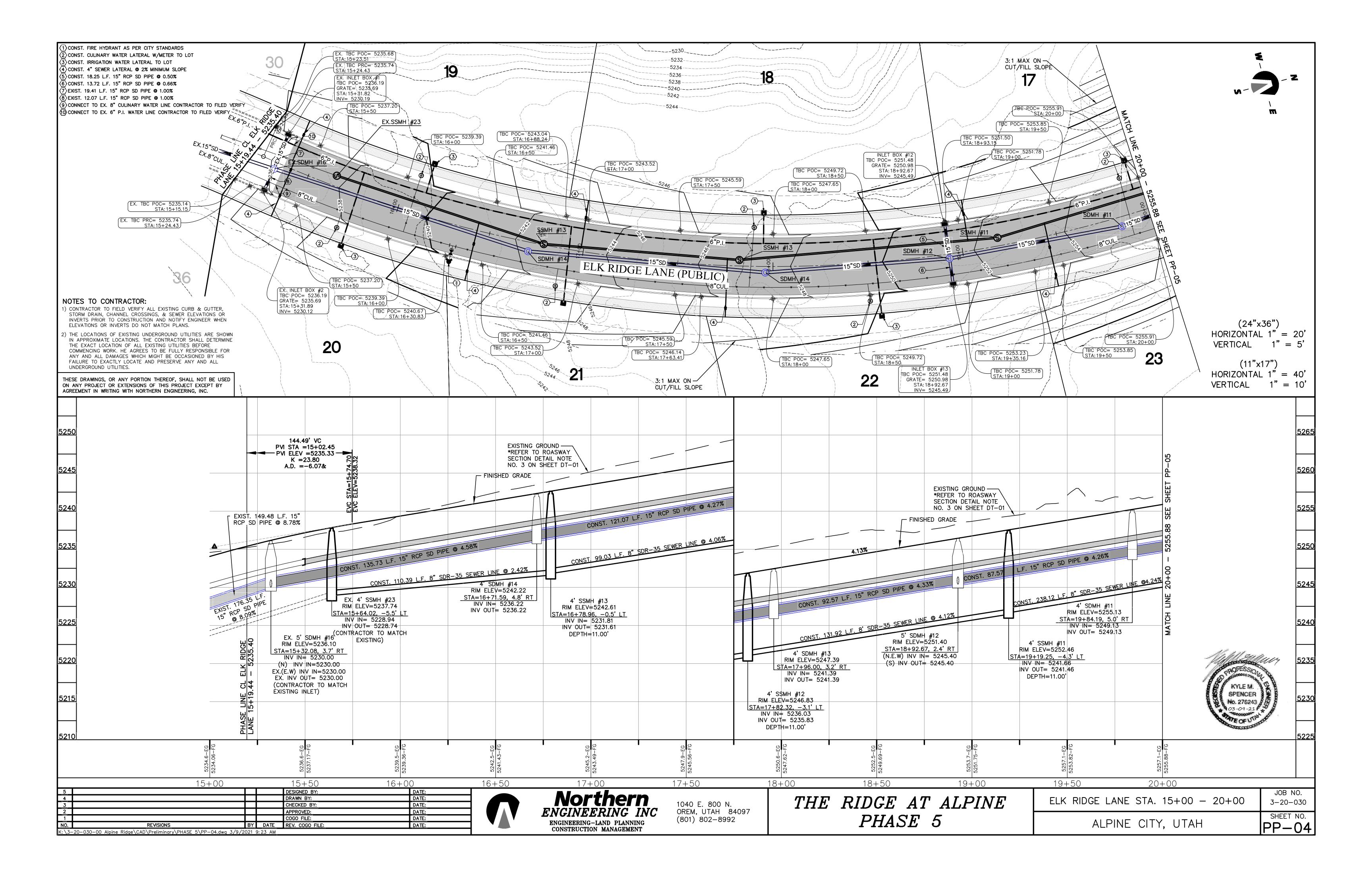


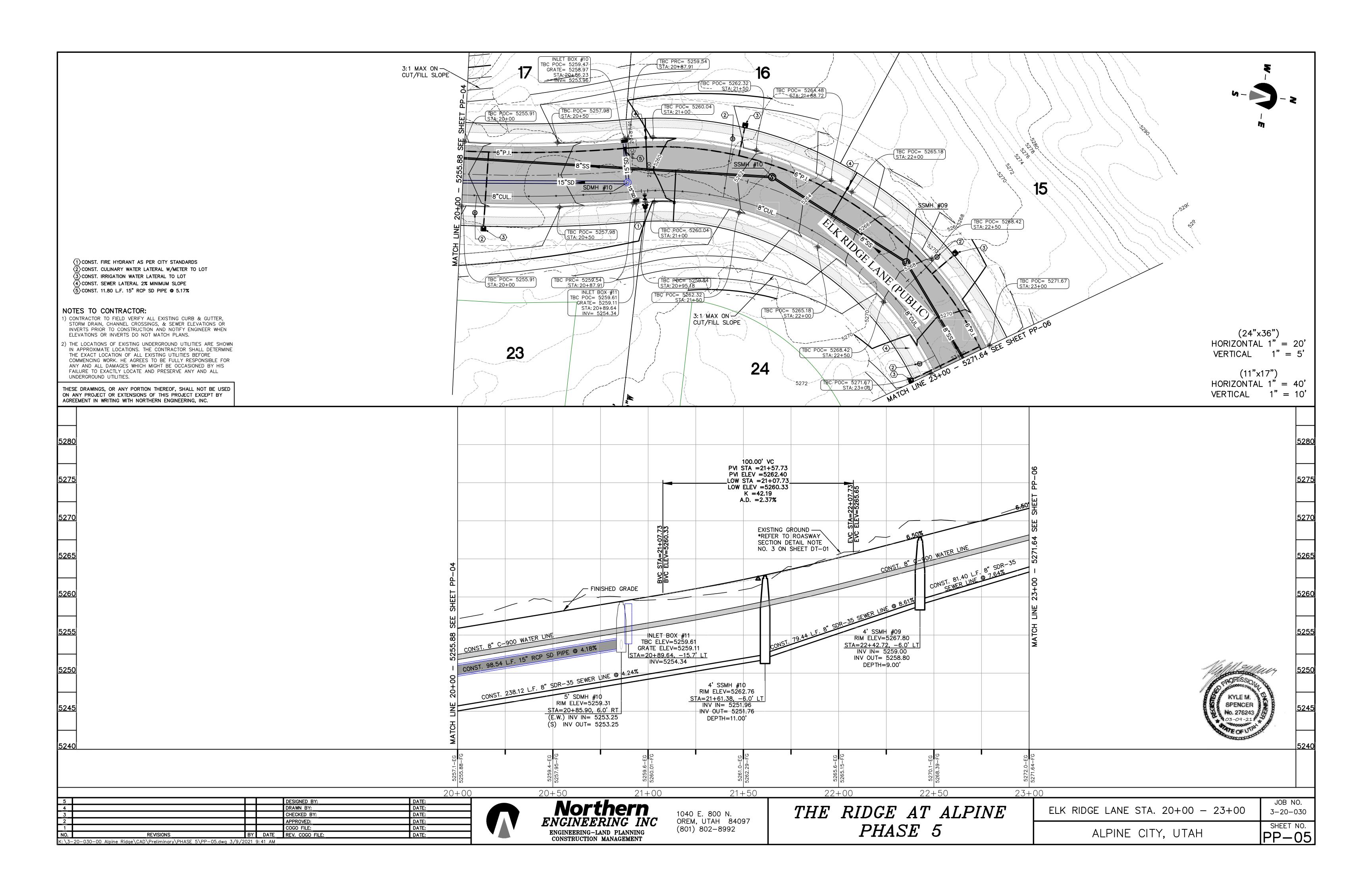


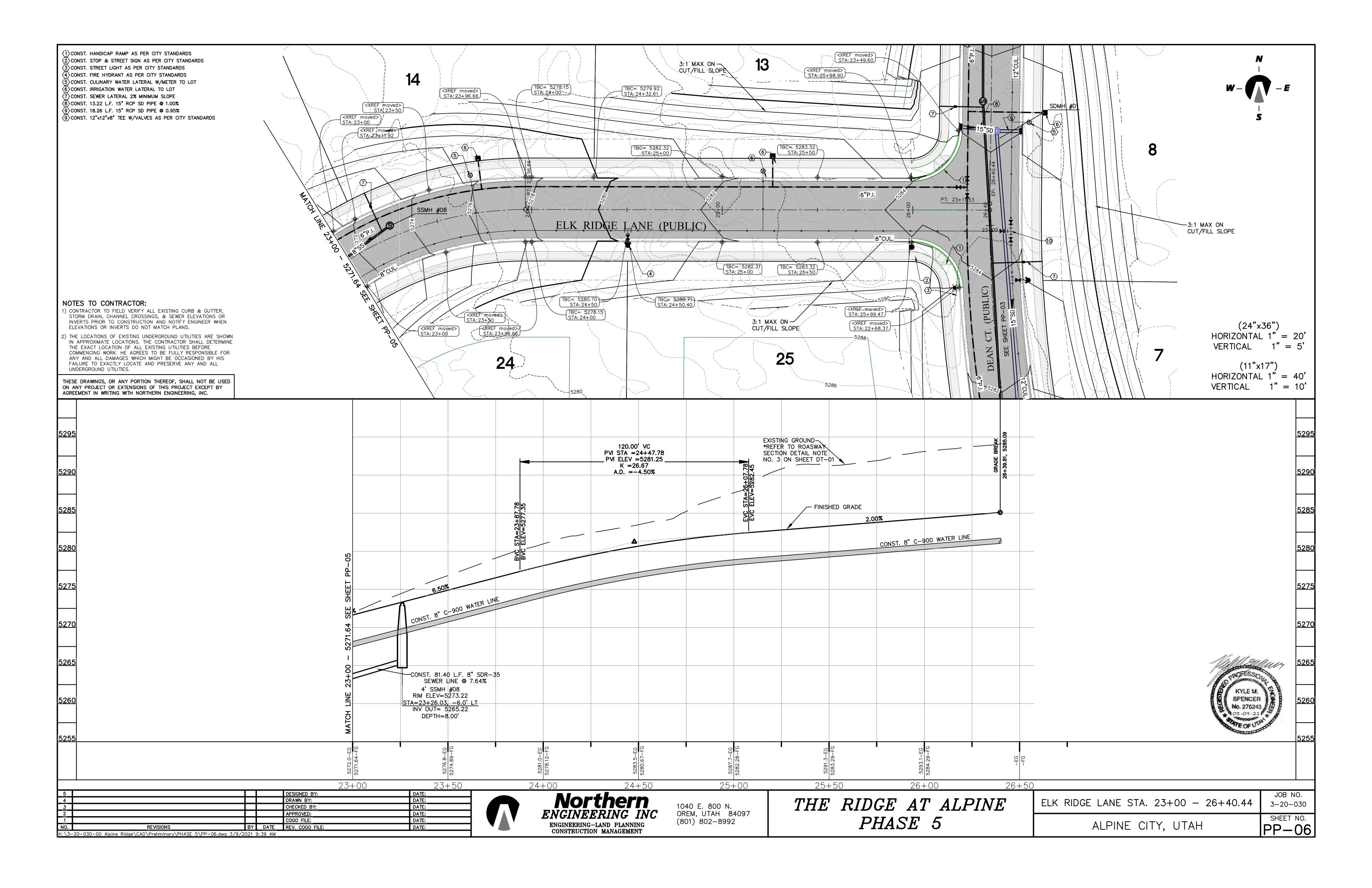


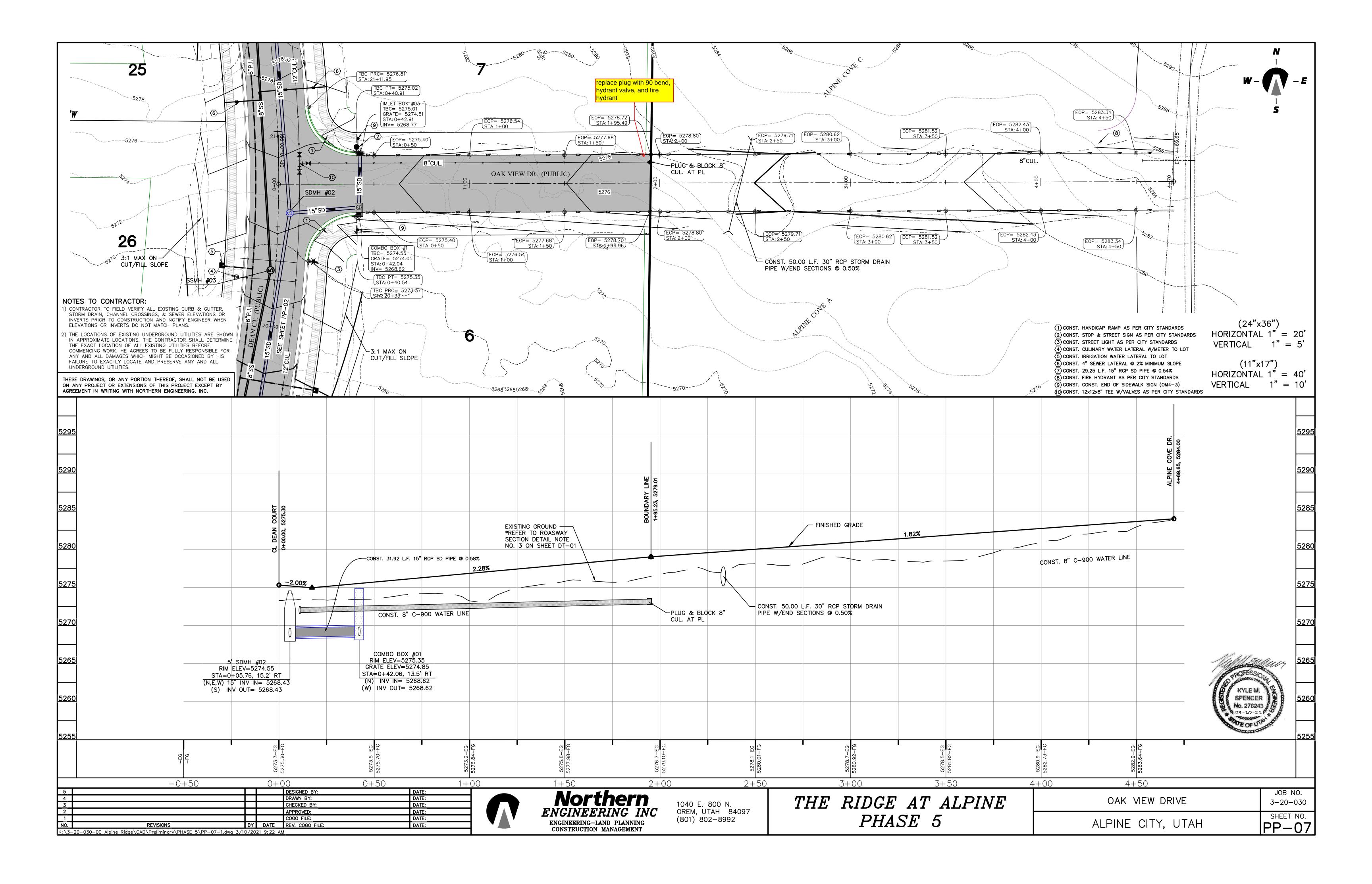


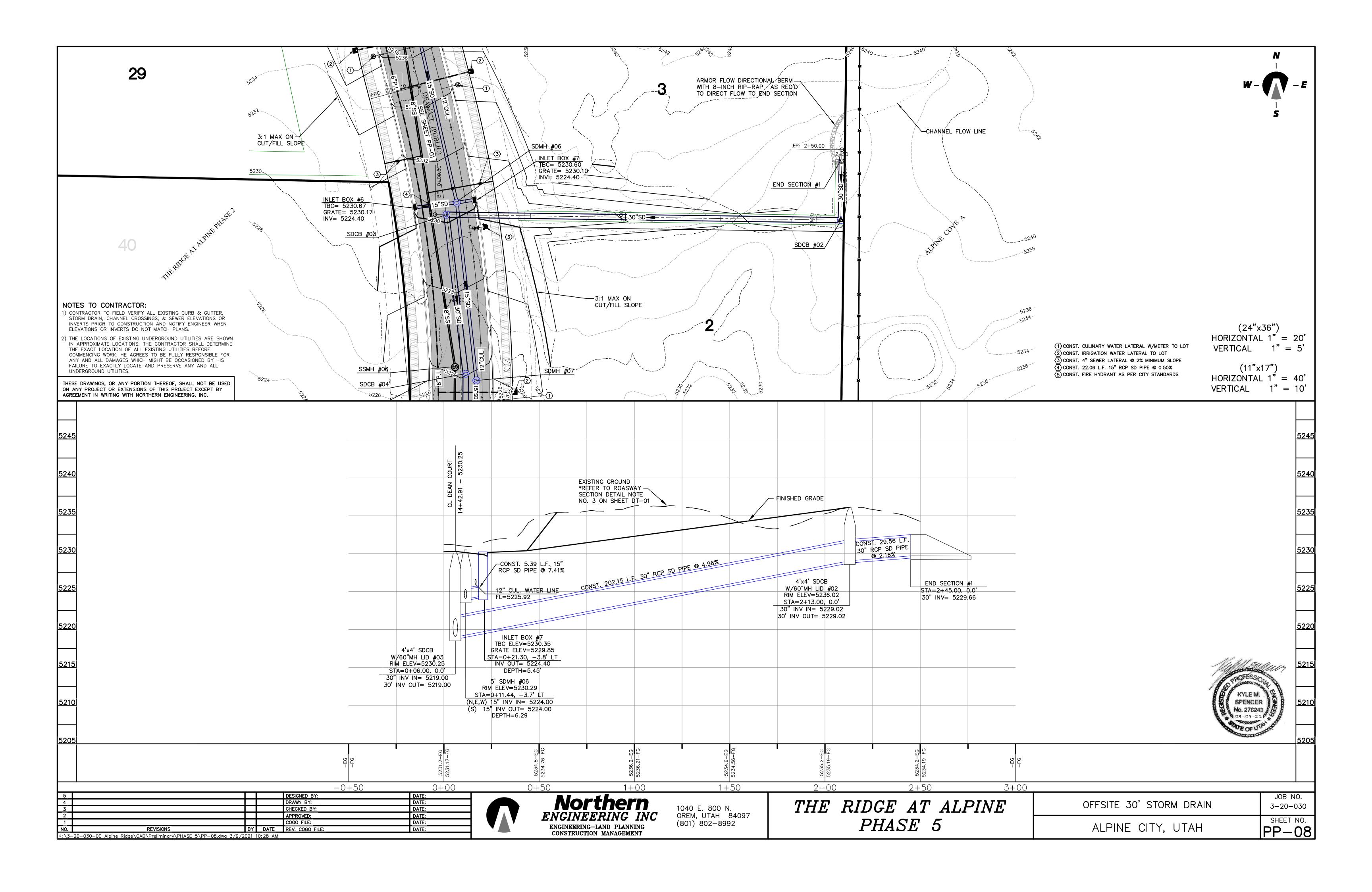


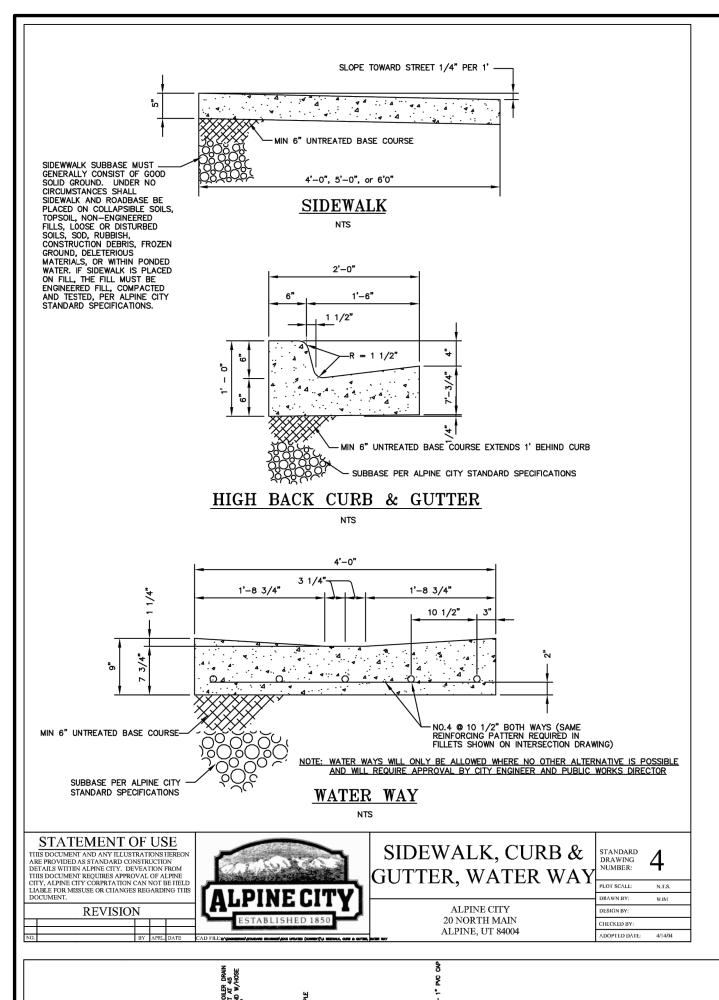


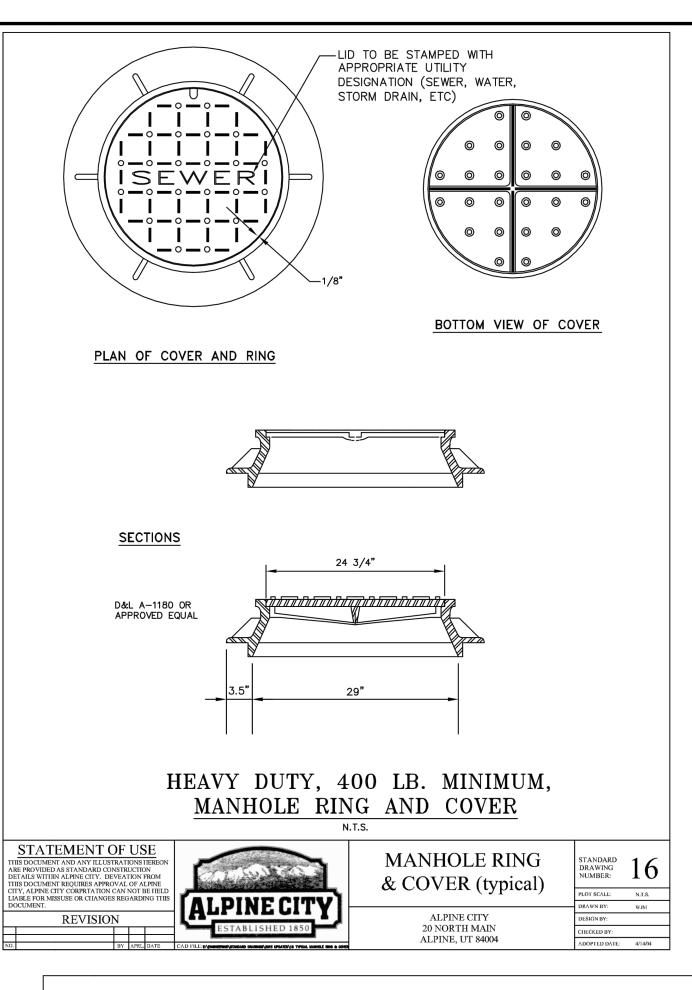


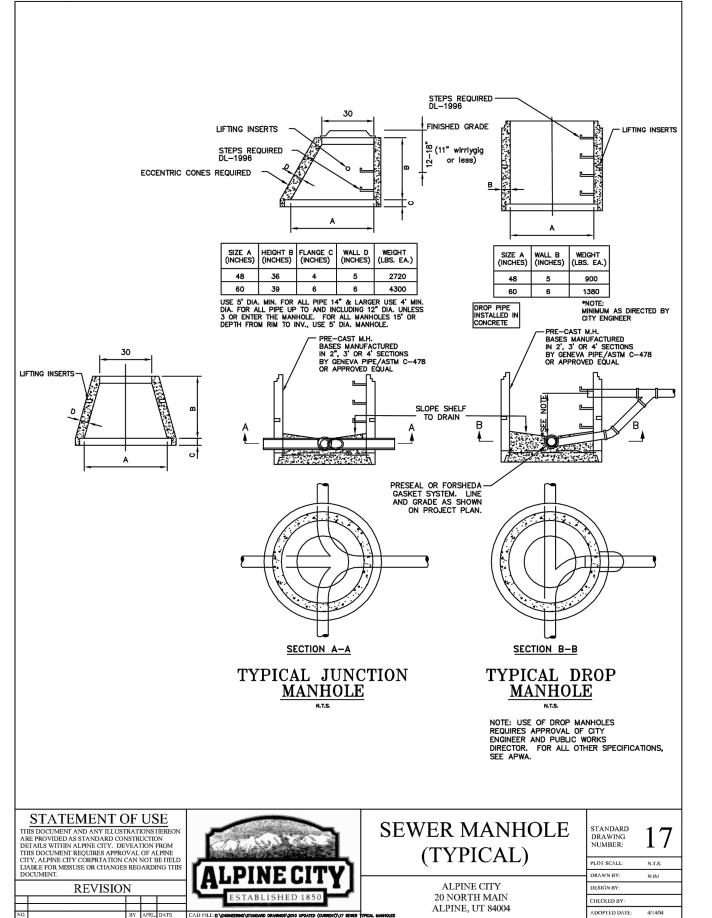


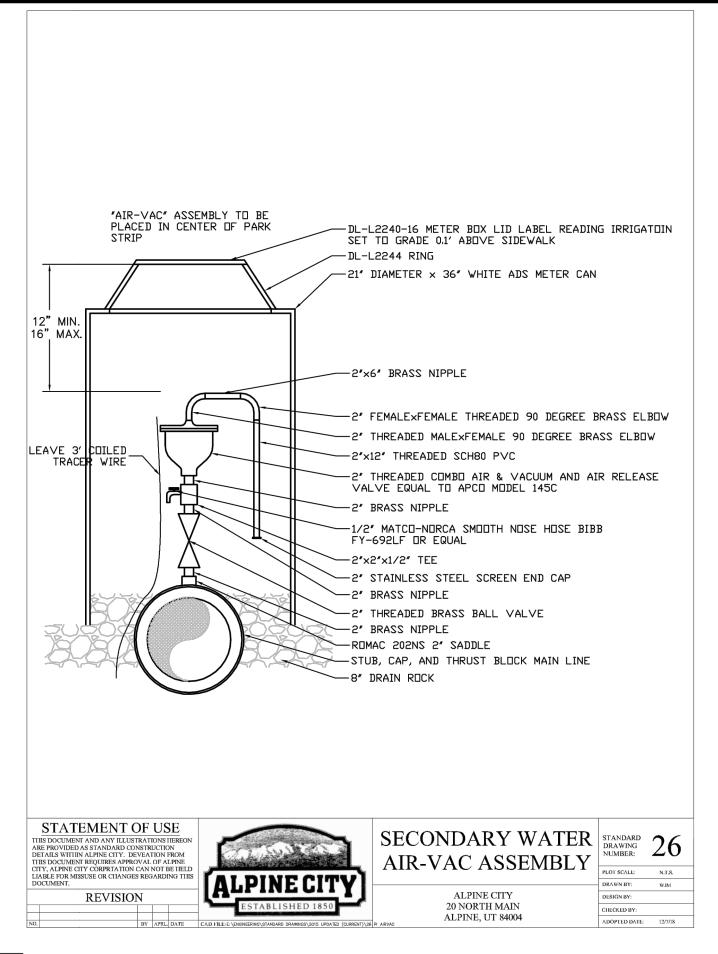


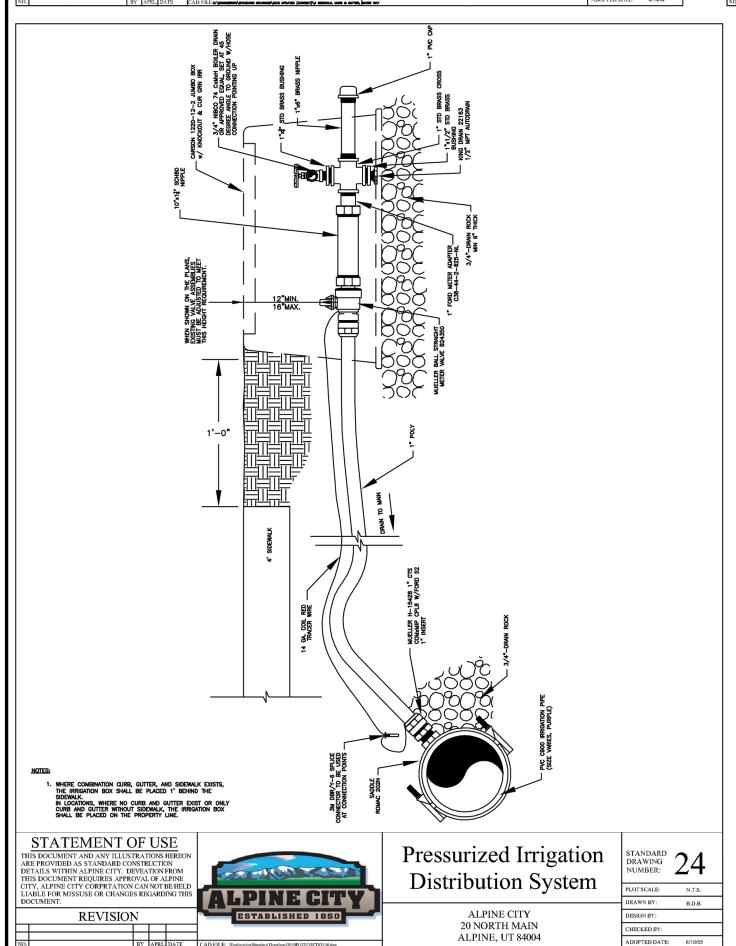


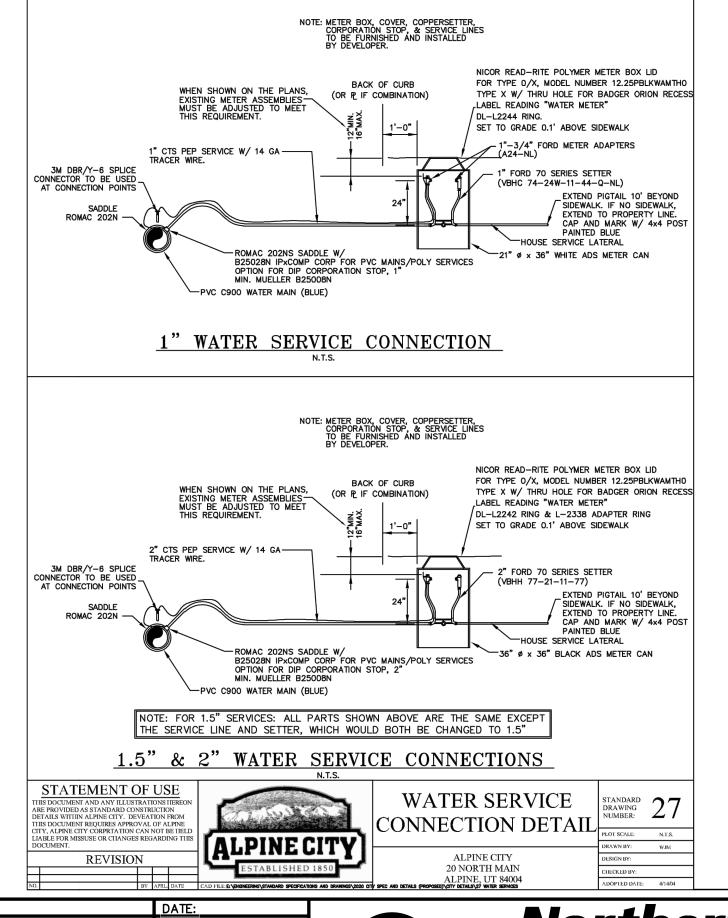


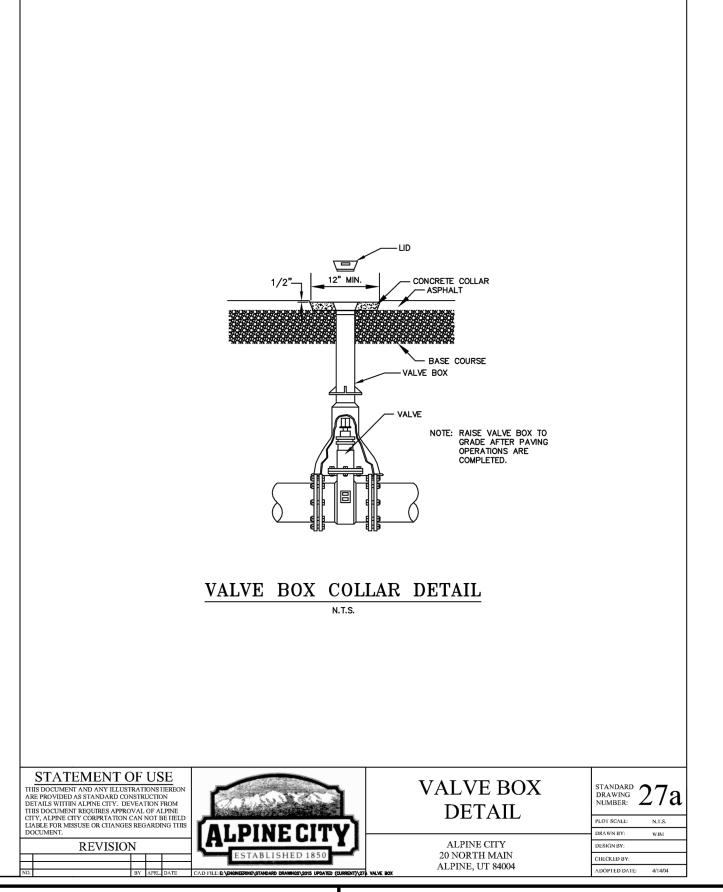


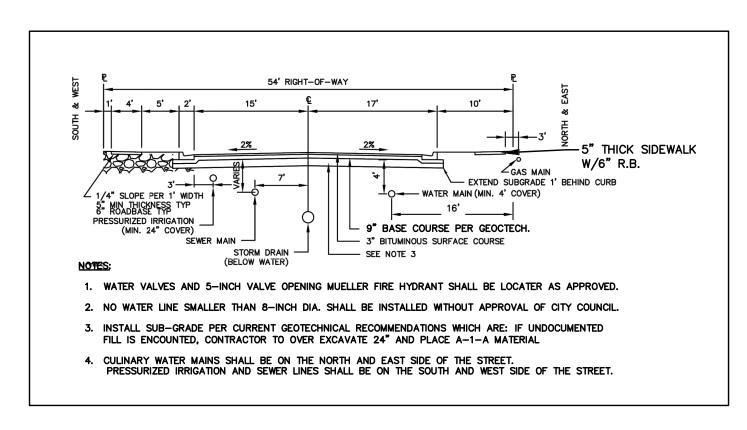


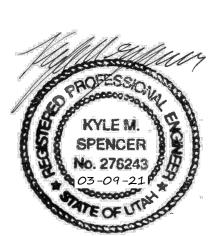












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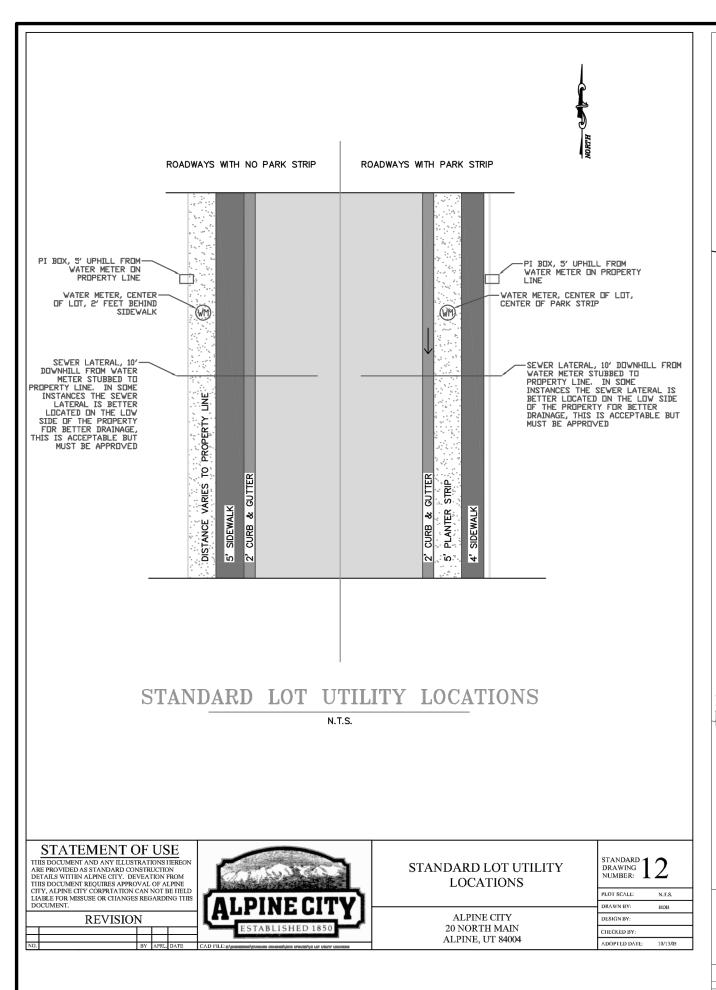
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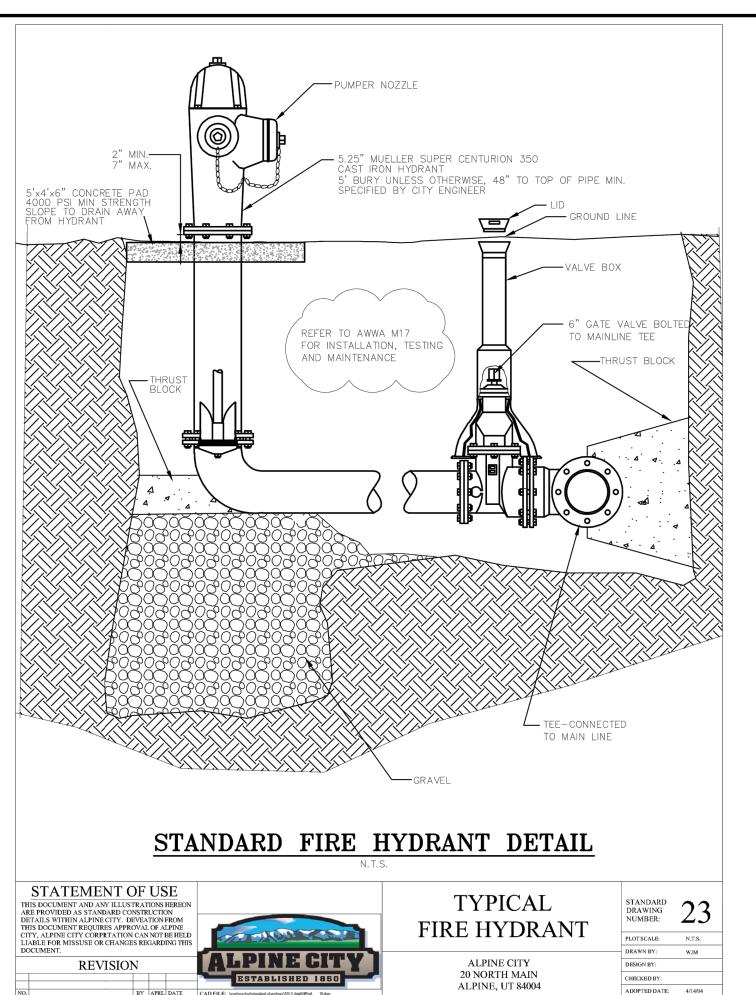
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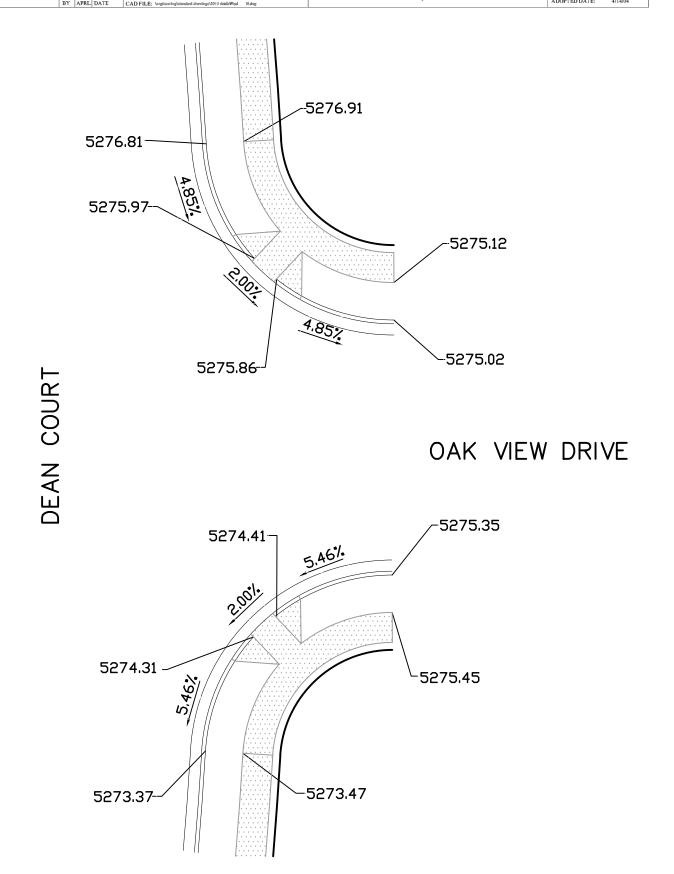
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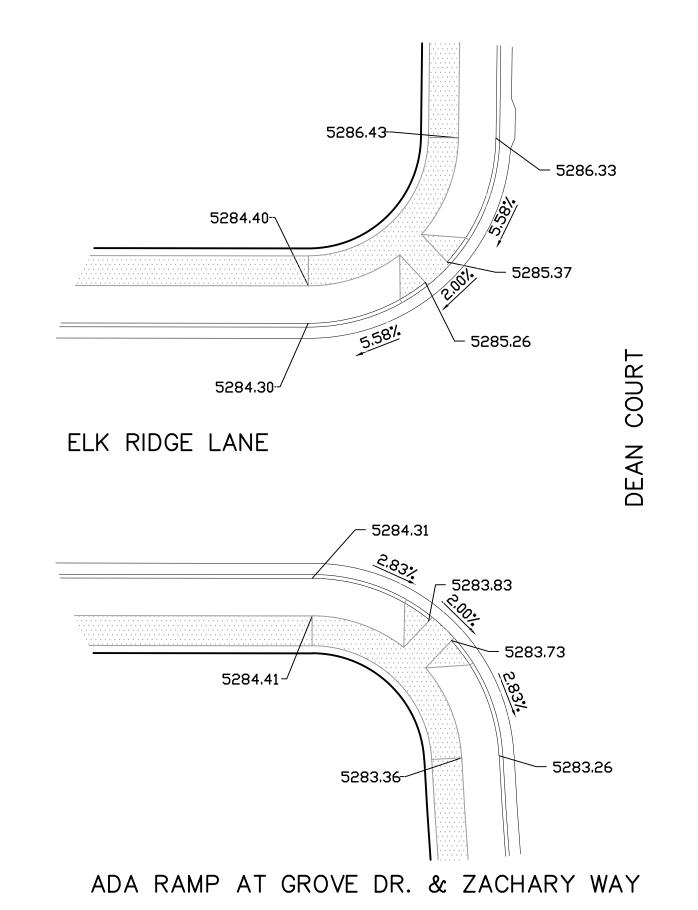
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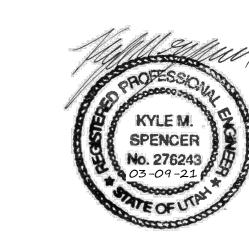
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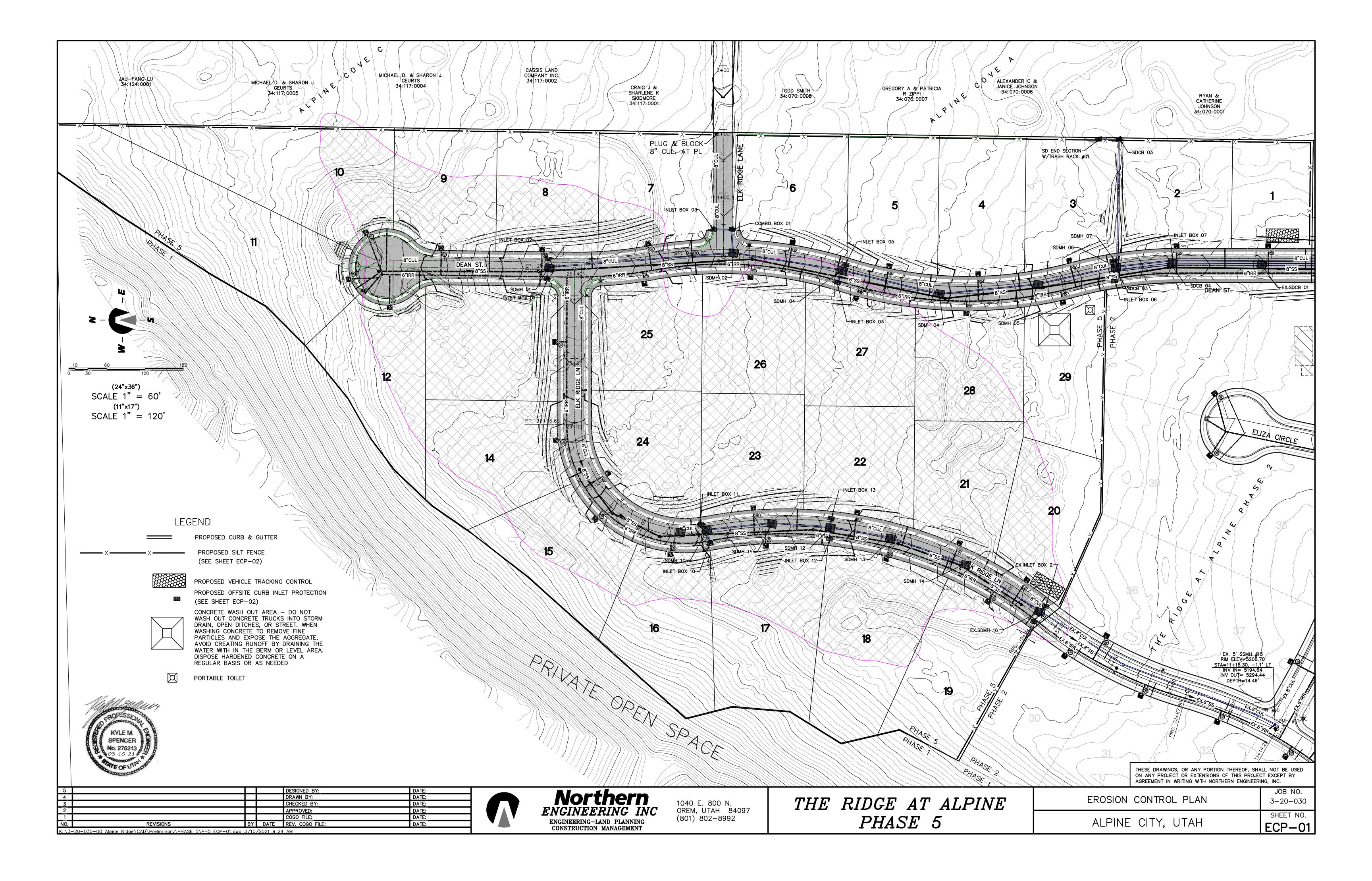
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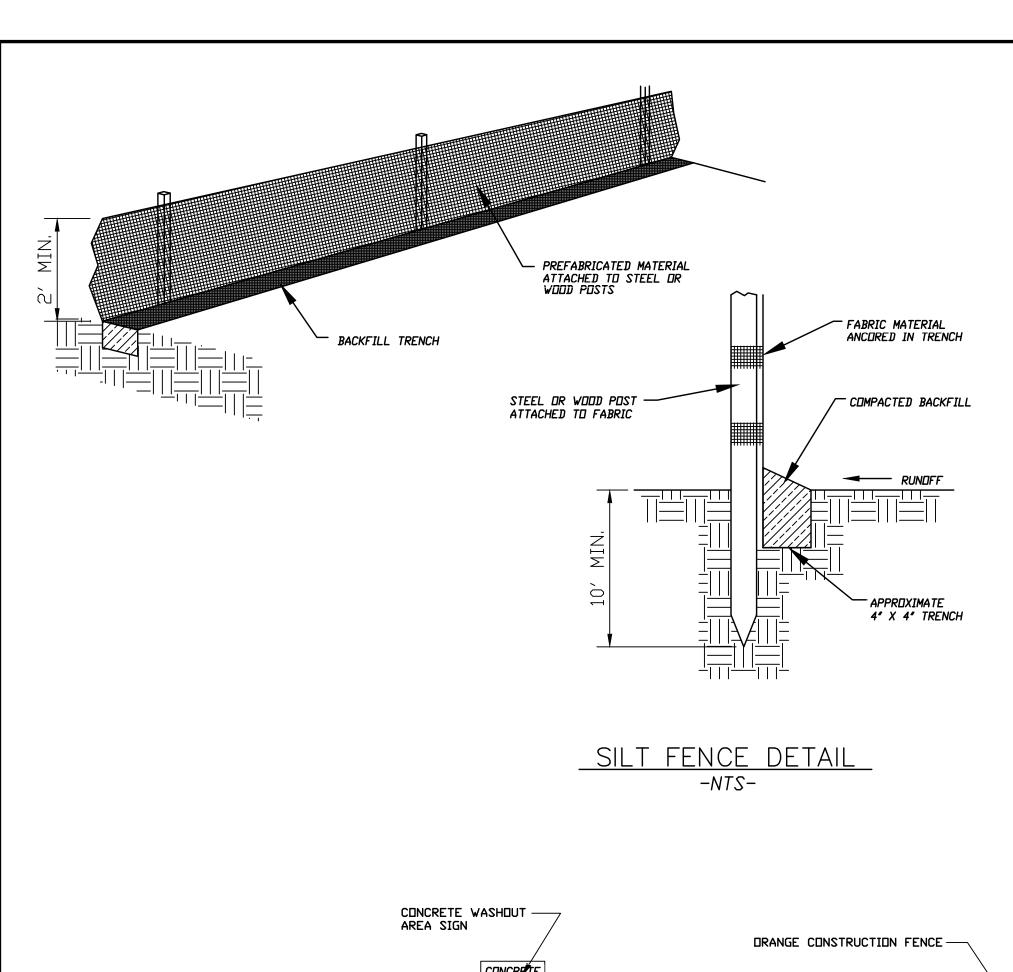
ALPINE VIEW ESTATES

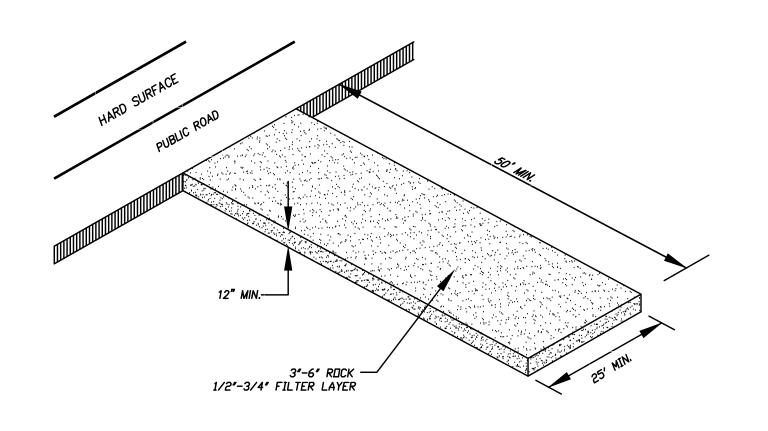
ADA RAMP DETAILS

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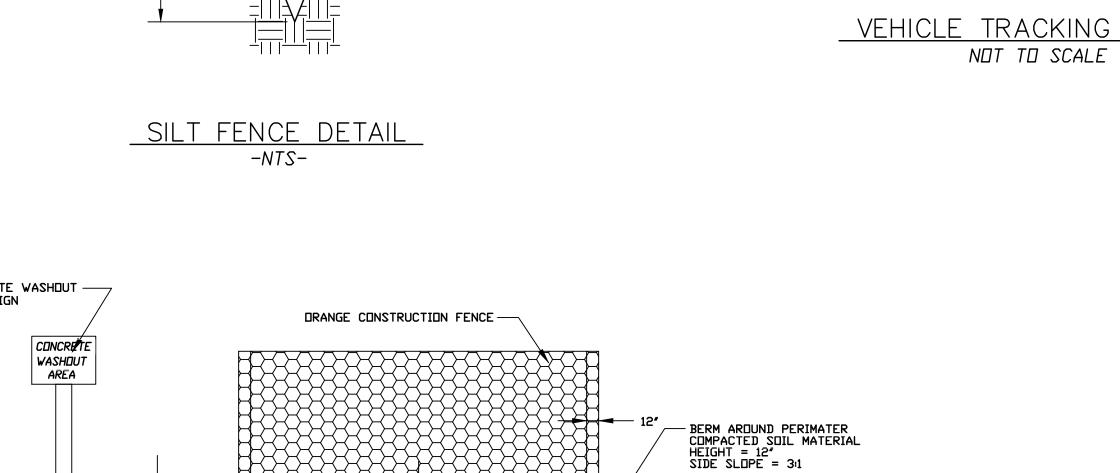
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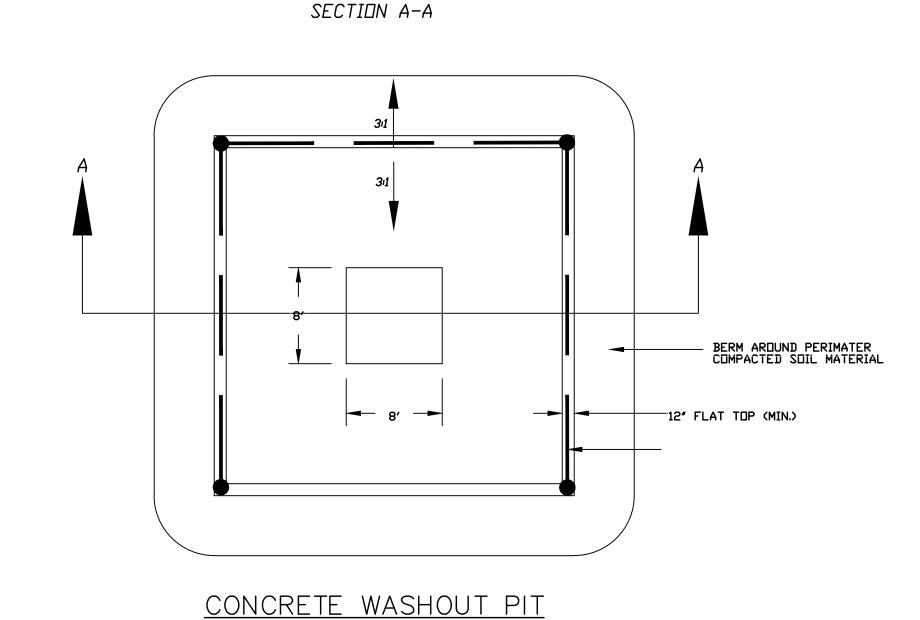






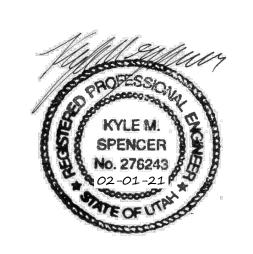
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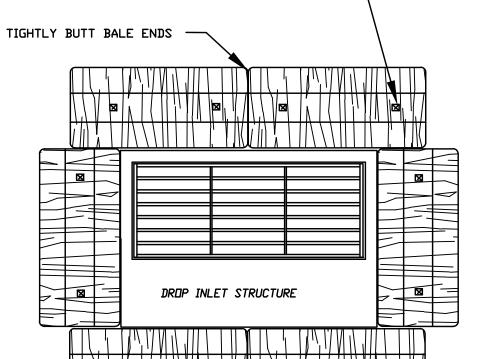




-NTS-

8' BOTTOM (MIN.)



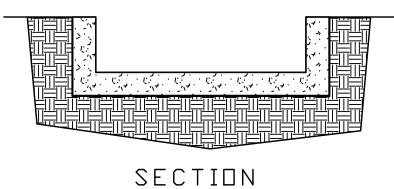


PLAN VIEW

2" SQUARE BY 4" MINIMUM HARDWOOD —— STAKE. INSTALL 2 STAKES PER BALE.

- 1. KEY-IN BALES IN AN EXCAVATED TRENCH AROUND THE PERIMETER OF THE DROP INLET STRUCTURE THAT IS 6"
  DEEP BY A BALES WIDTH WIDE.
- 2. DVERLAP ON CORNERS MUST BE AT LEAST HALF A BALE WIDE.
- 3. DEPENDING ON THE SIZE OF THE INLET STRUCTURE, MORE BALES THAN SHOWN MAY BE REQUIRED.
- 4. IN MEDIAN AREAS, CONSTRUCT SO THAT THE TOPS OF THE BALES ARE NOT HIGHER THAN THE ADJACENT ROADWAY.
- 5. MAINTAIN A PROPERLY FUNCTIONING SEDIMENT BARRIER THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS CONTRIBUTING TO THE INLET HAVE BEEN PAVED OR
- 6. REMOVE SEDIMENT AS IT ACCUMULATES AND PLACE IT IN A STABLE AREA APPROVED BY THE ENGINEER.

PLACE 3' TO 4' OF EXCAVATED MATERIAL ALONGTHE RECEIVING SIDE OF THE BALE AND COMPACT STRAW OR HAY BALE KEY-IN BALES -6" DEEP



STRAW BALE DROP INLET PROTECTION DETAIL

### **GENERAL NOTES:**

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ONSITE EROSION DUE TO WIND AND RUNDFF.
THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM SITE TRAFFIC.

3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY OR COUNTY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES. 4. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED WHEN THE SITE IS PAVED. 5. ALL SWPPP DRAINAGE SYSTEMS USING A GEDTECHNICAL FABRIC FOR INLET GRATE PROTECTION MUST HAVE FABRIC REGULARLY CLEANED (14 DAY INTERVAL MAX, MORE FREQUENTLY IF NEEDED) TO INSURE THAT SILT DOES NOT FORM IMPERMEABLE BARRIER OVER INLET.

> THESE DRAWINGS, OR ANY PORTION THEREOF, SHALL NOT BE USED ON ANY PROJECT OR EXTENSIONS OF THIS PROJECT EXCEPT BY AGREEMENT IN WRITING WITH NORTHERN ENGINEERING, INC.

> > 3-20-030

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ENGINEERING-LAND PLANNING CONSTRUCTION MANAGEMENT

1040 E. 800 N. OREM, UTAH 84097 (801) 802-8992

THE RIDGE AT ALPINE PHASE 5

EROSION	CONTROL	DETAILS	

SHEET NO. ALPINE, UTAH ECP-02

#### ALPINE PLANNING COMMISSION AGENDA

**SUBJECT:** Public Hearing – Ordinance 2021-08 Animal Ordinance

FOR CONSIDERATION ON: 16 March 2021

**PETITIONER:** Staff

ACTION REQUESTED BY PETITIONER: Review and approve the proposed

ordinance.

#### **BACKGROUND INFORMATION:**

Current City code allows for a maximum of 5 large animals (horses or cows) on a single lot. One large animal is permitted on a lot of 10,000 square feet, and an additional large animal is permitted for every additional 10,000 square feet for a maximum of 5 large animals per lot. The City has received feedback from residents who would like to be able to have more than 5 large animals on a single lot if they have a larger lot with additional acreage.

Staff have reviewed the ordinances for large animals in Lehi, Highland, American Fork, and Draper. None of these neighboring municipalities have a hard cap on the number of large animals like Alpine City does.

CITY	REQUIREMENTS	MAX#
Alpine City	lpine City   Minimum Lot size 10,000 sq ft. for 1 large animal, with 1	
	additional large animal for each 10,000 sq. ft.	
American	Permitted on land zoned for livestock management, with 1	N/A
Fork	large animal permitted for each 10,000 sq. ft.	
Draper	Minimum lot size 20,000 sq. ft. for 2 horses, with 1 additional	N/A
	horse for each 10,000 sq. ft.	
Highland	Minimum lot size 30,000 sq. ft. for 3 large animals, with 1	N/A
	additional large animal for each 10,000 sq. ft.	
Lehi	Dependent on zone. In permitted zones, 2 horses per half acre.	N/A
	No limit on 5 or more acres and/or agricultural zones, other	
	zones a maximum of 2 horses per lot.	

On February 2, 2021, the Planning Commission reviewed the proposal to remove the cap limit on number of large animals and recommended approval to the City Council:

**MOTION:** Sylvia Christiansen moved to recommend that Ordinance 2021-05 Animal Ordinance be approved as proposed. Troy Slade seconded the motion. There were 4 Ayes and 2 Nays (recorded below). The motion passed.

Ayes: Sylvia Christiansen Troy Slade Alan MacDonald Jane Griener Nays: Ethan Alan John MacKay

On February 9, 2021, the City Council discussed the proposal to remove the cap limit. After a lengthy discussion, the City tabled the item to the next meeting.

**Motion:** Greg Gordon moved to table Ordinance No. 2021-08 allow more time to analyze the language. Carla Merrill seconded the motion. There were 5 Ayes and 0 Nays, as recorded below. The motion passed unanimously.

Ayes
Carla Merrill
Jessica Smuin
Greg Gordon
Lon Lott
Jason Thelin

The City Council continued the discussion at the February 23, 2021 City Council meeting and decided to increase the requirement to have one large animal from 10,000 square feet to 20,000 square feet. They asked that the item be sent back to Planning Commission to hold a public hearing on the proposed change.

**FINAL MOTION:** Jason Thelin moved that we table Ordinance 2021-08 to go back to Planning Commission to have a public hearing on changing the minimum to 20,000 square foot lot size for 1 large animal and one additional animal for each additional 10,000 square feet. In addition, raise the cap from maximum of 5 large animals to 8-10 large animals per lot. Exceptions for additional animals may be granted by the City Council on lots over 5 acres in size, with consideration given to proximity to neighbors, proximity to dwellings and the overall percentage of land designated for the large animals to roam. Greg Gordon seconded the motion. There were 3 Ayes and 1 Nay, as recorded below. The motion passed.

Aves: Nays:
Jason Thelin Carla Merrill
Lon Lott
Greg Gordon

#### STAFF RECOMMENDATION:

Review the proposed ordinance, hold a public hearing, and recommend approval of the proposed ordinance.

#### **SAMPLE MOTION TO APPROVE:**

I motion to recommend that Ordinance 2021-05 be approved as proposed.

#### SAMPLE MOTION TO APPROVE WITH CONDITIONS:

I motion to recommend that Ordinance 2021-05 be approved with the following conditions/changes:

• \*\*\*Insert Finding\*\*\*

#### **SAMPLE MOTION TO TABLE/DENY:**

I motion that Ordinance 2021-05 be tabled/denied based on the following:

#### ALPINE CITY ORDINANCE 2021-08

## AN ORDINANCE ADOPTING AMENDMENTS TO ARTICLE 3.21.090 OF THE ALPINE CITY DEVELOPMENT CODE PERTAINING TO FARM ANIMAL AND AGRICULTURAL REGULATIONS.

**WHEREAS,** The City Council of Alpine, Utah has deemed it in the best interest of Alpine City to amend the animal and agricultural regulations ordinance with regards to the maximum number of horses allowed on a property; and

**WHEREAS**, the Alpine City Planning Commission has reviewed the proposed Amendments to the Development Code, held a public hearing, and has forwarded a recommendation to the City Council; and

**WHEREAS**, the Alpine City Council has reviewed the proposed Amendments to the Development Code:

**NOW THEREFORE,** be it ordained by the Council of Alpine City, in the State of Utah, as follows: The amendments to Article 3.21.090 contained in the attached document will supersede Article 3.21.090 as previously adopted. This ordinance shall take effect upon posting.

**SECTION 1:** <u>AMENDMENT</u> "3.21.090 Farm Animal And Agricultural Regulations" of the Alpine City Development Code is hereby *amended* as follows:

#### AMENDMENT

#### 3.21.090 Farm Animal And Agricultural Regulations

Animal and fowl allowed in the City of Alpine shall be used only for family food production or the enjoyment and convenience of the owner, and shall be subject to the regulations of the State Health Department and the City of Alpine. The following regulations shall apply in all zones:

- 1. **Horses/cows**. One horse or cow, and suckling offspring up to 6 months, shall be permitted on a 10,000 square foot lot, plus one animal for each additional 10,000 square feet. There shall be a maximum of five eight to ten (58-10) animals per lot. Exceptions for additional animals may be granted by the City Council on lots over 5 Acres in size, with consideration given to proximity to neighbors, proximity to dwellings, and the overall percentage of land designated for the large animals to roam.
- 2. **Pigs**. One pig, and suckling offspring up to 6 months, shall be permitted on a 10,000 square foot lot, plus one more pig for an additional 10,000 square feet. There shall be a maximum of two (2) pigs regardless of lot size.
- 3. **Goats/sheep**. One goat or sheep, and suckling offspring up to 6 months, shall be permitted on a 10,000 square foot lot or two goats or sheep on a 20,000 square foot lot,

plus two additional sheep or goats for each additional 10,000 square feet with a maximum of ten sheep or goats.

- 4. **Other animals**. Exotic animals or animals not mentioned above may be permitted after review and recommendation by the Planning Commission and approval by the City Council.
- 5. **Animal enclosures**. Barns, stables, corrals, pens, coops and runs for the keeping of animals and fowl are allowed provided such uses are located at least seventy-five (75) feet from any neighboring dwelling. Animal enclosures may be located closer than seventy-five (75) feet to the animal owner's home. Such facilities shall be maintained in a clean and inoffensive condition. A fence around the perimeter of the parcel is not considered an enclosure.
- 6. **Fur bearing animals**. The raising of fur bearing animals shall require review and recommendation by the Planning Commission and approval of the City Council.
- 7. **Slope**. On lots greater than twenty (20) percent average slope, the type and extent of agricultural use shall require review and recommendation by the Planning Commission and approval by the City Council.
- 8. **Additional animals**. Conditional approval for additional animals may be granted by the City Council upon recommendation by the Planning Commission.
- 9. **Pre-existing rights**. In instances where a new dwelling is built within seventy-five feet of an existing animal enclosure, the animal owner shall have a pre-existing right and shall not be required to move the animals or enclosure. If the animal enclosure is removed, the right is abandoned. If a new enclosure were built, the property owner would have to comply under the new ordinance.

#### 10. **Beekeeping**

- a. Purpose. The purpose of this section is to authorize beekeeping subject to certain requirements intended to avoid problems that may otherwise be associated with beekeeping in populated areas.
- b. Hives.
  - i. A person shall not locate or allow a hive on property owned or occupied by another person without first obtaining written permission from the owner or occupant.
  - ii. Hives shall be placed at least five (5) feet from any property line; provided, however, that this requirement may be waived in writing by the adjoining property owner.
- c. Beekeeper Registration. Each beekeeper shall be registered with the Utah Department of Agriculture and Food as provided in the Utah Bee Inspection Act set forth in Title 4, Chapter 11 of the Utah State Code, as amended.
- d. Flyways. A hive shall be placed on property so the general flight pattern of bees is in a direction that will deter bee contact with humans and domesticated animals. If any portion of a hive is located within fifteen (15) feet from an area which provides public access or from a property line on the lot where an apiary is located, as measured from the nearest point on the hive to the property line, a flyway barrier at least six (6) feet in height shall be established and maintained around the hive except as needed to allow access. Such flyway, if located along

- the property line or within five (5) feet of the property line, shall consist of a solid wall, fence, dense vegetation, or a combination thereof which extends at least ten (10) feet beyond the hive in each direction so that bees are forced to fly to an elevation of at least six (6) feet above ground level over property lines in the vicinity of the apiary.
- e. Water. Each beekeeper shall ensure that a convenient source of water is available to the colony continuously between March 1 and October 31 of each year. The water shall be in a location that minimizes any nuisance created by bees seeking water on neighboring property.

(Ord. 2002-05, Amended Ord. 2007-15; Ord. 2011-12, 10/25/11)

Troy Stout, Mayor, Alpine City

# PASSED AND ADOPTED BY THE ALPINE CITY COUNCIL AYE NAY ABSENT ABSTAIN Lon Lott Carla Merrill Gregory Gordon Jason Thelin Jessica Smuin Presiding Officer Attest

City

Bonnie Cooper, City Recorder Alpine

#### ALPINE CITY ORDINANCE 2021-08

## AN ORDINANCE ADOPTING AMENDMENTS TO ARTICLE 3.21.090 OF THE ALPINE CITY DEVELOPMENT CODE PERTAINING TO FARM ANIMAL AND AGRICULTURAL REGULATIONS.

**WHEREAS,** The City Council of Alpine, Utah has deemed it in the best interest of Alpine City to amend the animal and agricultural regulations ordinance with regards to the maximum number of horses allowed on a property; and

**WHEREAS**, the Alpine City Planning Commission has reviewed the proposed Amendments to the Development Code, held a public hearing, and has forwarded a recommendation to the City Council; and

**WHEREAS**, the Alpine City Council has reviewed the proposed Amendments to the Development Code:

**NOW THEREFORE,** be it ordained by the Council of Alpine City, in the State of Utah, as follows: The amendments to Article 3.21.090 contained in the attached document will supersede Article 3.21.090 as previously adopted. This ordinance shall take effect upon posting.

**SECTION 1:** <u>AMENDMENT</u> "3.21.090 Farm Animal And Agricultural Regulations" of the Alpine City Development Code is hereby *amended* as follows:

#### AMENDMENT

#### 3.21.090 Farm Animal And Agricultural Regulations

Animal and fowl allowed in the City of Alpine shall be used only for family food production or the enjoyment and convenience of the owner, and shall be subject to the regulations of the State Health Department and the City of Alpine. The following regulations shall apply in all zones:

- 1. **Horses/cows**. One horse or cow, and suckling offspring up to 6 months, shall be permitted on a 20,000 square foot lot, plus one animal for each additional 10,000 square feet. There shall be a maximum of eight to ten (8-10) animals per lot. Exceptions for additional animals may be granted by the City Council on lots over 5 Acres in size, with consideration given to proximity to neighbors, proximity to dwellings, and the overall percentage of land designated for the large animals to roam.
- 2. **Pigs**. One pig, and suckling offspring up to 6 months, shall be permitted on a 10,000 square foot lot, plus one more pig for an additional 10,000 square feet. There shall be a maximum of two (2) pigs regardless of lot size.
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plus two additional sheep or goats for each additional 10,000 square feet with a maximum of ten sheep or goats.

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- b. Hives.
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  - ii. Hives shall be placed at least five (5) feet from any property line; provided, however, that this requirement may be waived in writing by the adjoining property owner.
- c. Beekeeper Registration. Each beekeeper shall be registered with the Utah Department of Agriculture and Food as provided in the Utah Bee Inspection Act set forth in Title 4, Chapter 11 of the Utah State Code, as amended.
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(Ord. 2002-05, Amended Ord. 2007-15; Ord. 2011-12, 10/25/11)

Troy Stout, Mayor, Alpine City

# PASSED AND ADOPTED BY THE ALPINE CITY COUNCIL AYE NAY ABSENT ABSTAIN Lon Lott Carla Merrill Gregory Gordon Jason Thelin Jessica Smuin Presiding Officer Attest

City

Bonnie Cooper, City Recorder Alpine

#### **ALPINE PLANNING COMMISSION AGENDA**

**SUBJECT: Planning Commission Minutes February 16, 2021** 

FOR CONSIDERATION ON: 16 March 2021

**PETITIONER:** Staff

**ACTION REQUESTED BY PETITIONER:** Approve Minutes

#### **BACKGROUND INFORMATION:**

Minutes from the February 16, 2021 Planning Commission Meeting.

#### STAFF RECOMMENDATION:

Review and approve the Planning Commission Minutes.

## 1 ALPINE CITY PLANNING COMMISSION MEETING 2 Alpine City Hall, 20 North Main, Alpine, UT 3 February 16, 2021

#### I. GENERAL BUSINESS

**A. Welcome and Roll Call**: The meeting was called to order at 7:00 p.m. by Chairwoman Jane Griener. The following were present and constituted a quorum:

Chairwoman: Jane Griener

Commission Members: Ethan Allen, John MacKay, Alan MacDonald, Troy Slade, Ed Bush

13 Excused: Sylvia Christiansen

Staff: Austin Roy, Jed Muhlestein, Marla Fox

Others: Hyrum Bosserman

**B. Prayer/Opening Comments**: Troy Slade

C. Pledge of Allegiance: Ethan Allen

Hyrum Bosserman introduced himself to the Planning Commission.

#### II. PUBLIC COMMENT

No Comments.

#### III. ACTION ITEMS

#### A. Open Public Meetings Training by City Attorney

Hyrum Bosserman, from the City Attorney's office, said the City needed to fulfill the open training requirement. He asked if anyone knew what Sunshine Laws were. Jane Griener said that they were laws that make sure nothing was done in secret. Hyrum Bosserman said that was correct. He noted that it started in 1976 as a federal law and the law stated:

1. Every portion of every meeting of an agency must be open to the public observation.

2. Procedures must be implemented to ensure that the public is provided with adequate advance notice of the agency's scheduled meeting and agenda and there was to be transparency on the decisions made by governing bodies.

 The intent as the Utah legislature had set forth that everything done by a legislative body took place in an open forum. Public business should be public business, which was what they were trying to ensure. Mr. Bosserman continued with the presentation. He explained what a meeting was under the open and public meetings act: whenever a quorum of a decision-making body was present it constituted a meeting but required notice at least 24 hours in advance. A quorum was a simple majority, and since there were seven members in the commission, anytime four or more officials met it constituted as a quorum. There needed to be an agenda, date, and location of the meeting noticed 24 hours in advance and posted at the principal office and the government website. There should be a schedule of regularly scheduled meetings posted and noticed once a year. There should be an agenda that reasonably specified the items of topics of discussion for action. Items raised by the public but not on the agenda may be discussed but no action may be taken.

Mr. Bosserman had prepared a quiz and they went through the questions. He explained that Planning Commission members were not allowed to meet in numbers that would constitute a quorum outside of a posted meeting because it would be considered a de facto meeting that would require notice and would be in violation of the public meetings act. Jane Griener asked about involvement of an email chain and its validity as a quorum. Mr. Bosserman explained that a text group or email chain with a quorum of members qualified as a meeting if City matters were discussed. They could email separately or have a thread with less than a quorum, but not the entire group. It was a gray area, but best practice would be to keep it less than a quorum. All records were subject to a GRAMA requests and an email chain could be subject to these requests.

Hyrum Bosserman explained that there needed to be an anchor location for meetings, and it was best to have a quorum present but that members were allowed to attend meetings through other means if they were unable to be there in person. COVID-19 was a special exception; via a signed affidavit they were allowed to suspend an anchor location. However, the affidavit needed to be renewed every 30 days. It needed to be noticed to the public how they could attend these virtual meetings.

Hyrum Bosserman explained that during emergencies, the Mayor could hold a meeting with limited notice.

Hyrum Bosserman explained that the public was allowed to send concerns electronically to the Planning Commission, but best practice would be to bring up the message during the meeting. If the person wanted to remain anonymous, that was okay. He also said it was not okay for Planning Commission members to send emails or texts to other members expressing extreme disappointment in that member's position or vote. These thoughts needed to be expressed on the record for transparency.

Hyrum Bosserman said Planning Commission member's emails were considered public records and could be retrieved during a GRAMA request. He said best practice would be to have a separate email account for City emails, so they didn't have to sift through personal emails. Ed Bush asked if they should have Planning Commission emails through the City. Mr. Bosserman said that that would be a good practice, but it was a matter of practicality. Troy Slade asked if the Planning Commission was required to store City emails. Mr. Bosserman said the emails were public record and should not be deleted; he said they should be stored. There were certain time limitations depending on the subject.

Hyrum Bosserman explained that if the audio system went down during a meeting and the public could not speak or be heard, best practice would be to suspend the meeting and continue later when the electronic issues were worked out.

Hyrum Bosserman explained that closed meetings were related to misconduct of an employee. Additionally, closed meetings were held if the City was planning on selling or acquiring a piece of property, imminent litigation pending, a hotly contested site Plan, security issues, or criminal conduct. He said there had to be a roll call with votes to go into a closed session and a motion made to go into a closed session and state the reason for the closed session. He said that once the session was closed, the recording needed to be stopped and a new one started for the closed session. Any actions during a closed session needed to be voted on during an open session with a motion and a second made. Any discussion during a closed session was to remain private and minutes must be approved within a short window of time. Approved minutes and audio recordings needed to be posted for the public within three days.

Hyrum Bosserman explained that the consequences of noncompliance was that an item could be voidable. The action item would need to be brought to the next meeting, discussed again, and a new motion made. If an action item was left off the agenda, that item could be discussed, but no action can be taken until the item could be legally noticed.

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B. Ordinance 2021-06 – Accessory Building Setback Exception Criteria

Austin Roy stated that this had been tabled on January 5, 2021. The Bingham, Cushing, and Strong families spoke during the public comment portion of the Planning Commission meeting. They felt an amendment was needed to the accessory building setback exception ordinance, as well as the maximum allowed height for structures receiving an exception. The wording had been changed and a draft was being put together by the legal staff. The Planning Commission discussed the item and told the residents they would hold a public hearing.

The Planning Commission held a public hearing for the proposal on January 19, 2021, and recommended that the proposal be denied through the following motion:

**MOTION:** Ed Bush made motion to recommend that the Accessory Building Setback Exceptions be denied as proposed and that the ordinance be left as is. Sylvia Christiansen seconded the motion. There were 5 Ayes and 2 Nays (recorded below). The motion passed.

John MacKay Jane Griener

Sylvia Christiansen Ed Bush Ethan Allen Alan MacDonald

Troy Slade

Aves

Jason Thelin

On January 26, 2021, the City Council reviewed the proposal and decided that the City ordinance needed to be amended. The item was sent back to the Planning Commission to draft language which would allow for increased height. It would also allow structures to be built in an easement if they were moveable.

**MOTION:** Jason Thelin motioned that the council send back the proposal to the Planning Commission instructing them to do two things one look at the allowable height for accessory buildings and determine if a height of 12-feet 6-inches would be acceptable in Alpine City and second determine if movable accessory building would be allowable with in the setback and easements of a property. Greg Gordon seconded the motion. There were 4 Ayes and 1 Nays, as recorded below. The motion passed.

Navs

Carla Merrill Lon Lott Jessica Smuin Greg Gordon

The Planning Commission reviewed the proposed ordinance again at the February 2, 2021 meeting. After some discussion, the Planning Commission decided to table the item to address a few issues. The following motion was made:

**MOTION:** Alan MacDonald moved to table this issue until further review of these issues:

- 1. Incorporate height amendment of 12 feet 6 inches or 13 feet;
- 2. Consider incorporating a 2-foot setback;
- 3. Consider appropriate language for movable buildings that can be moved within 24 hours or a fine;
- 4. Building have no power, gas, water, mechanical running to it;

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5. Staff consider legal ramifications of encroaching on a city easement and the process for a resident to get a sign off from the city and utility company.

John MacKay seconded the motion. There were 6 Ayes and 0 Nays (recorded below). The motion passed. Navs:

1. The accessory building is located more than twelve (12) feet from an existing dwelling on the

4. The accessory building shall be constructed of non-combustive materials or have fire resistive

5. The building will not be placed on land designated as a recorded easement, such as a utility or

tail easement, unless the owner(s) of said easement agree(s) to allow the encroachment.

2. The accessory building contains no openings on the side contiguous to the lot line;

3. No drainage from the roof will be discharged onto an adjacent lot;

Documentation of the agreement shall be provided to the city;

buildings that cannot be moved within 24 hours;

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> 6 7 Sylvia Christiansen 8 Ethan Allen 9 Alan MacDonald Trov Slade

> > John MacKav

Jane Griener

same or adjacent lot:

walls rated at one (1) hour or more;

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Austin Roy said the new proposed language to the Accessory Building Setback stated:

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16 Accessory buildings shall be set back not less than fifteen (15) feet from the rear lot line and ten (10) feet 17 from the side lot line, except that a two (2) foot minimum rear or side setback shall be required when all 18 the following conditions are met:

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6. The building will not be taller than twelve (12) feet six (6) inches to the top of the roof line' 7. The building does not require permanent attachment to the ground and can be moved or relocated within 24 hours; 8. The owner acknowledges that they bear all costs of moving a building, including damage to the property, in the event on easement needs to be accessed, and fines shall be issued for

> 9. The building will not exceed 200 square feet in size; and 10. The building will have no associated electrical, gas, plumbing, or mechanical equipment

> attached or running to it. A solar powered light may be permitted if it does not prohibit the building from being movable as described above.

Ed Bush said the language seemed to imply that everyone that wanted to build in the setback couldn't have a movable structure. He said he thought the City Council wanted this to change moveable buildings to apply to easements only and not to all properties. The moveable issue was put in strictly for easements. Ed Bush asked how the moveability of a structure would be measured and what the definition of a moveable building was; anything not attached to the ground was considered moveable. This ordinance would only get more complicated and would be amended as they came across different issues with it. Ordinances were typically proactive, but they would need to clarify with the attorney if this would apply retroactively or not.

The Planning Commission discussed making changes to the ordinance and what the intention of the City Council was. Ed Bush said that they could table this issue. He asked the City Council to be more specific about the intention of their motion. The Planning Commission could decide if they were okay with the

1 12-foot, six-inch height for sheds in the easement and making the structures movable. Alternatively, they could recommend something totally different.

**MOTION:** John MacKay moved to recommend that Ordinance 2021-06 be approved as proposed. The motion died for a lack of a second.

Alan MacDonald asked the Planning Commissioners how they were feeling about sending this issue back to the City Council for further clarification on the motion. The Planning Commission members all said they want to work on a new ordinance further.

Alan MacDonald wanted to know what they all wanted to work on since no one seconded John MacKay's motion. Ed Bush said he would want the language to be changed to say a person could only have a moveable structure if the structure was on an easement. He wanted items 7 and 8 subbed to 5. There was discussion about the two-foot minimum.

Alan MacDonald said they needed to decide if they were comfortable allowing people to put a structure in an easement. Jane Griener said the owner would have to get an agreement from the owner of the easement in order to encroach on the easement.

Alan MacDonald said a standard shed height was 10 feet. Custom sheds could be whatever was desired. He wanted to know why they were choosing a 12-foot, six-inch height. Austin Roy said that number was proposed by an applicant because that was the height of their shed. It was based on a diagram that had been drawn up based on the 12-foot, six-inch request to determine the line of sight. The current allowable heights were 20 for an accessory building and 34 for a home. How these heights were determined and how to determine an appropriate height for this ordinance was discussed. Some thought the number was arbitrary and so a relevant number for sight line at two-foot out was calculated by Jane Griener. She came up with a little over 10.3 feet using a right triangle calculator.

Building and encroaching on a utility easement was discussed. Citizens would have to request permission from the utility company.

Ed Bush said if they put a movable paragraph, the language of numbers 7 and 8 needed to be under the sub-head of number 5: Sheds on an easement.

Code enforcement had extended the deadline for this issue until June from February, so they had time on their side and didn't need to force themselves to rush to decide. They wanted to take the time to make the right decision and consider unintended consequences. There was discussion about other things going into easement areas such as fences or retaining walls. Marla Fox said that the form for accessory buildings and retaining walls was the same form. There was more discussion about the height number.

**MOTION:** Ed Bush moved to recommend the Accessory Building Setback Exception be approved with this exception:

1. Move number 7 and 8 to be conditions under number 5 easement encroachment.

John MacKay seconded the motion. There were 6 Ayes and 0 Nays (recorded below). The motion passed.

48 Ayes: Nays:
49 Ethan Allen
50 Ed Bush

1	Alan MacDonald					
2	Troy Slade					
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6 7	Jane Griener asked Austin Roy to bring back the retaining walls ordinance for review.					
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9	Austin Roy said the City Council needed to hold a couple of meetings on certain dates and this would					
10	move one of the August meetings and the meeting in November would be moved from the $2^{nd}$ to the 3					
11		Tuesday. He will bring the correct dates at a later date.				
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13	V. APPROVAL OF PLANNING COMMISSION	ON MINUTES: February 2, 2021				
14 15	MOTION: Troy Slade moved to approve the mi	nutes for Fahruary 2, 2021 as written				
16	*	nutes for reordary 2, 2021 as written.				
17		Aves and 0 Navs (recorded below). The motion passed				
18	Ethan Allen seconded the motion. There were 6 Ayes and 0 Nays (recorded below). The motion passe unanimously.					
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20		Nays:				
21		None				
22	Jane Griener	rone				
23	Ed Bush					
22 23 24 25	Alan MacDonald					
25	Troy Slade					
26	John MacKay					
27	, communication					
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29		meeting.				
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31		vere 6 Ayes and 0 Nays (recorded below). The motion				
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