

# THE BRIDGES - GROVE CABINS PH1 & MOUNTAINSIDE PH 2

## CONSTRUCTION DOCUMENTS

### EDEN, WEBER , UTAH

#### TRAFFIC CONTROL & SAFETY NOTES

1. BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT STATE OF UTAH DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, AND THE CURRENT COUNTY STANDARD DRAWING, AND SHALL BE APPROVED PRIOR TO ANY WORK.
2. NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE COUNTY ENGINEER, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
3. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
4. DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF THE COUNTY ENGINEER
6. TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.

#### UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

#### NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

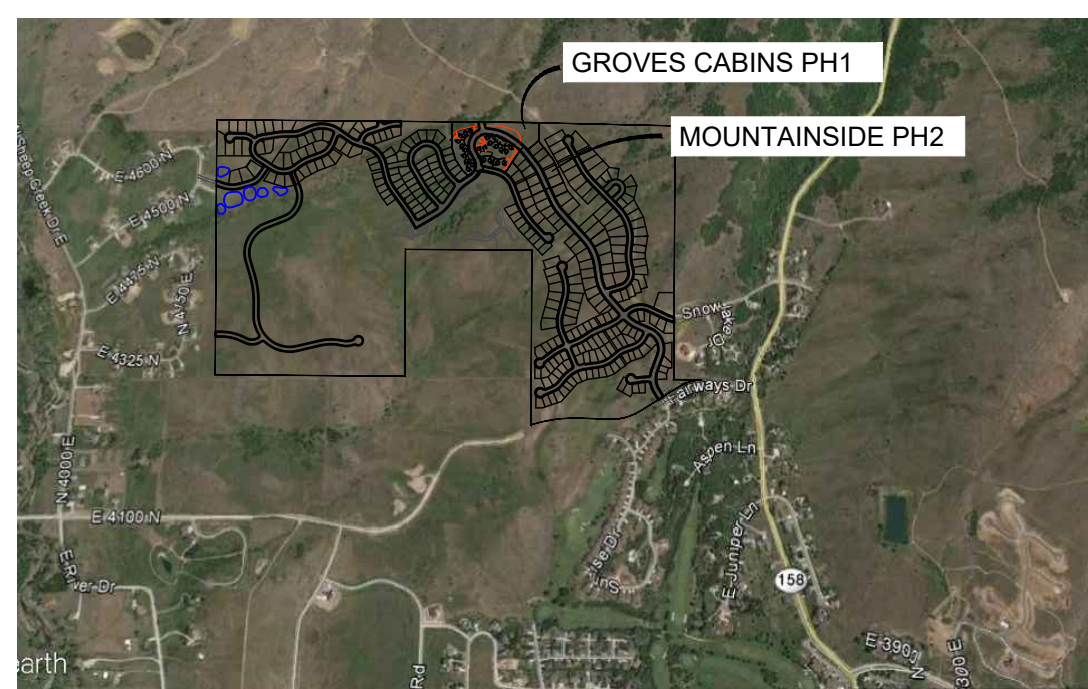
CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

#### SANITARY SEWER GENERAL NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH WOLF CREEK WATER AND SEWER IMPROVEMENT (WCWSID) DISTRICT STANDARDS AND SPECIFICATIONS.
2. ALL GRAVITY SANITARY SEWER LINES SHALL BE SDR-35 PVC MATERIAL. SEWER LINE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ASTM STANDARDS AND SPECIFICATIONS.
3. DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT.
4. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE.
5. ALL SANITARY SEWER MAIN TESTING SHALL BE IN ACCORDANCE WITH (WCWSID) STANDARDS AND SPECIFICATIONS. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE PUBLIC WORKS SANITARY SEWER DEPARTMENT HEAD PRIOR TO FINAL ACCEPTANCE.
6. COMPACTION TESTING OF ALL TRENCHES WITH THE PROJECT SITE MUST BE ATTAINED AND RESULTS SUBMITTED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER LINE.
8. WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY OWNER/ENGINEER IF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.
9. CAMERA TESTING AND PRESSURE TESTING PER (WCWSID) STANDARD.

#### SWPPP GENERAL NOTES

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY THE COUNTY AND STATE.
2. ALL STRUCTURAL EROSION MEASURES SHALL BE INSTALLED AS SHOWN ON THE SWPP PLAN, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.



#### GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE COUNTY ENGINEER, PLANNING, CODES AND SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE DESIGNATED PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
5. THE CONTRACTOR SHALL HAVE ONE (1) COPY OF APPROVED PLANS, AND ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT DRAWINGS ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE COUNTY INSPECTOR AT ALL TIMES.
11. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
13. FOLLOW RECOMMENDATIONS IN GEOTECH REPORT.
14. ROCK WALLS THAT ARE 4FT IN HEIGHT OR HIGHER REQUIRE AN ENGINEERED DESIGN. DESIGN WILL NEED TO BE STAMPED BY ENGINEER PROVIDE LETTER FROM THE ENGINEER STATING THAT THEY WERE INSTALLED PROPERLY.

#### STORM SEWER GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:  
A) OBTAIN ALL REQUIRED PERMITS FROM THE COUNTY OR REGULATORY AGENCIES, INCLUDING PERMITS TO WORK IN THE RIGHT-OF-WAY.  
B) RESTORATION OF EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCES, SOD, LANDSCAPING, PAVEMENT, SPRINKLER SYSTEM.  
C) VERIFICATION AND PROTECTION OF ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION.  
D) PROVIDING AS-BUILT DRAWINGS TO THE COUNTY AND THE ENGINEER.  
E) ALL PERMITTING, DEVELOPMENT, LOCATION, CONNECTION AND INSPECTION AND SCHEDULING FOR SUCH.
2. ALL STORM SEWER CONNECTIONS SHALL BE IN CONFORMANCE WITH COUNTY STANDARDS AND SPECIFICATIONS.
3. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH COUNTY STANDARDS AND SPECIFICATIONS AND PLANS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO PLACEMENT OF ASPHALT PAVING.
4. COMPACTION OF ALL TRENCHES WITHIN THE PROJECT SITE MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED PRIOR TO FINAL ACCEPTANCE.
5. ALL STORM DRAIN PIPES IN THE COUNTY RIGHT-OF-WAY SHALL BE RCP CL III.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. ALL STORM SEWER LIDS SHALL BE LABELED "STORM DRAIN".
7. WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY OWNER/ENGINEER IF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.

#### GENERAL GRADING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APWA STANDARDS AND SPECIFICATION FOR PUBLIC WORKS AND THE COUNTY STANDARDS. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS AND ENTRIES. FINISHED GRADE AT FOUNDATION FOR WOOD FRAMED STRUCTURES SHALL BE 8 INCHES BELOW TOP OF FOUNDATION AND DRAINAGE SHALL BE A MINIMUM OF 5% WITHIN 10 FEET FROM THE BUILDING.
2. MAXIMUM SLOPES SHALL BE 3:1 FOR CUT AND FILL UNLESS OTHERWISE NOTED.
3. COMPACTION REQUIREMENTS AND TESTING SHALL BE PERFORMED TO MEET THE COUNTY STANDARDS.
4. NO FILL SHALL BE PLACED UNTIL VEGETATION HAS BEEN REMOVED AND SUB-GRADE PREPARED PER THE SOILS REPORT.
5. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
6. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN BY INSTALLING BMP'S PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES.
7. ALL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ALL SUBSEQUENT REPORTS, ADDENDUM ETC. SHALL BE CONSIDERED A PART OF THIS GRADING PLAN AND SHALL BE COMPLIED WITH.
8. THE CONTRACTOR SHALL CONTACT BLUE STAKES FOR LOCATION MARKING PRIOR TO COMMENCING EXCAVATION ACTIVITIES.
9. COUNTY MAY REQUIRE A PRE-CONSTRUCTION MEETING BEFORE A PERMIT IS ISSUED.
10. STREETS ADJACENT TO THE PROJECT SHALL BE CLEAN AT ALL TIMES.
11. CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR ALL REQUIRED INSPECTIONS.
12. PRIOR TO TAKING WATER FROM A COUNTY FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE WATER UTILITY TO OBTAIN A WATER METER.

#### CULINARY WATER GENERAL NOTES

1. ALL INSTALLATION AND MATERIALS SHALL CONFORM TO WATER UTILITY STANDARDS, SPECIFICATIONS AND PLANS.
2. THRUST BLOCKING IS REQUIRED AT ALL BENDS AND FITTINGS. TIE RODS SHALL BE USED AT ALL BENDS AND FITTINGS WHERE THRUST BLOCKS DO NOT BEAR AGAINST UNDISTURBED SOIL.
3. ALL WATERLINES AT SEWER CROSSINGS SHALL BE LOCATED ABOVE AND HAVE AN 18-INCH VERTICAL SEPARATION FROM THE SEWER PIPE. IF THIS IS NOT PROVIDED, THE WATERLINE SHALL BE INSTALLED WITH 20 L.F. OF CONCRETE CASING CENTERED OVER THE SEWER PIPE.
4. DISINFECTION TESTS SHALL BE PERFORMED BY THE WATER UTILITY WITH COOPERATION FROM THE CONTRACTOR IN PERFORMING ANY NECESSARY EXCAVATION AND SUBSEQUENT BACKFILLING AT NO COST TO THE DISTRICT..
5. CHLORINATION OF COMPLETED WATER LINE. THE NEW WATER LINES SHALL BE DISINFECTED BY CHLORINATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RELATED COSTS AND FEES RELATED TO THE CHLORINATION OF THE COMPLETED WATER LINE. THIS TEST SHALL BE PERFORMED PRIOR TO CONNECTION OF THE NEW WATER LINES TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY AT LEAST 24 HOURS BEFORE THE CHLORINATION IS DESIRED.
6. A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED FROM SANITARY SEWER MAINS.
7. UNLESS OTHERWISE SPECIFIED, ALL WATERLINES SHALL BE AWWA C900 PVC CLASS 150, PER ASTM D2241.
8. CONTRACTOR SHALL LOCATE VALVES PRIOR TO CONNECTION WITH EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM THE WATER UTILITY.
9. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
10. THERE SHALL BE A WATER SUPPLY TO THE DEVELOPMENT BEFORE ANY WOOD CONSTRUCTION STARTS.

#### WEBER FIRE DISTRICT GENERAL NOTES

1. FIRE FLOW: ALL DWELLINGS STRUCTURES OVER 5000 SQ. FT. WHICH DO NOT MEET THE FIRE FLOW REQUIREMENTS, SHALL BE EQUIPPED WITH AN NFPA 13D COMPLIANT FIRE SPRINKLER SYSTEM OR BE PROVIDED WITH AREA SEPARATIONS COMPLIANT WITH THE IBC/IRC. FOR MORE INFORMATION REGARDING FIRE FLOW, PLEASE CONTACT FIRE MARSHAL THUESON AT 801-782-3580.
2. ROADS AND BRIDGES SHALL BE DESIGNED, CONSTRUCTED AND MAINTAINED TO SUPPORT AN IMPOSED LOAD OF 75,000 LBS.
3. ALL ROADS SHALL BE DESIGNED, CONSTRUCTED, SURFACED AND MAINTAINED SO AS TO PROVIDE AN ALL-WEATHER DRIVING SURFACE.
4. FIRE ACCESS ROADS FOR THIS PROJECT SHALL BE COMPLETED AND APPROVED PRIOR TO ANY COMBUSTIBLE CONSTRUCTION. TEMPORARY ROADS SHALL MEET THE SAME REQUIREMENTS FOR HEIGHT, WIDTH AND IMPOSED LOADS AS PERMANENT ROADS.
5. ALL REQUIRED FIRE HYDRANTS AND WATER SYSTEMS SHALL BE INSTALLED, APPROVED AND FULLY FUNCTIONAL PRIOR TO ANY COMBUSTIBLE CONSTRUCTION.

ALL IMPROVEMENTS TO CONFORM TO CURRENT COUNTY STANDARDS AND SPECIFICATIONS

CULINARY WATER AND SEWER IMPROVEMENTS TO CONFORM TO THE WOLF CREEK WATER AND SEWER IMPROVEMENT DISTRICT STANDARDS AND SPECIFICATIONS

#### SHEET INDEX

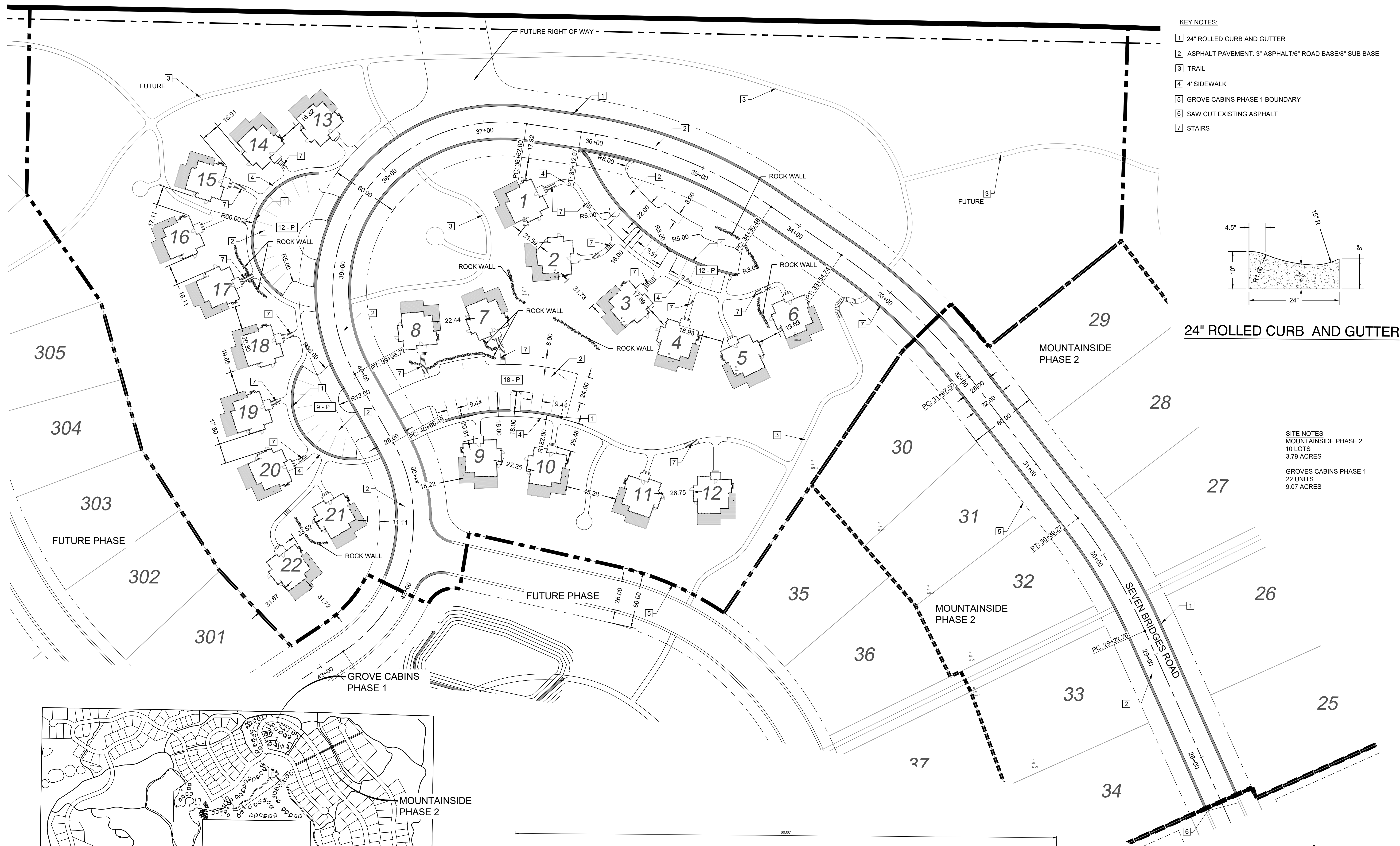
C1	-	COVER SHEET
SP1	-	SITE PLAN PHASE 1
GP1	-	GRADING PLAN - OVERALL
GP1A	-	GRADING PLAN ENLARGED
GP1B	-	GRADING PLAN ENLARGED
UT1	-	UTILITY PLAN
DR1	-	DRAINAGE PLAN
PP1 - PP9	-	PLAN AND PROFILE
SW1	-	SWPP PLAN
DT1	-	DETAILS
DT2	-	PRV DETAIL

**NOT FOR CONSTRUCTION**

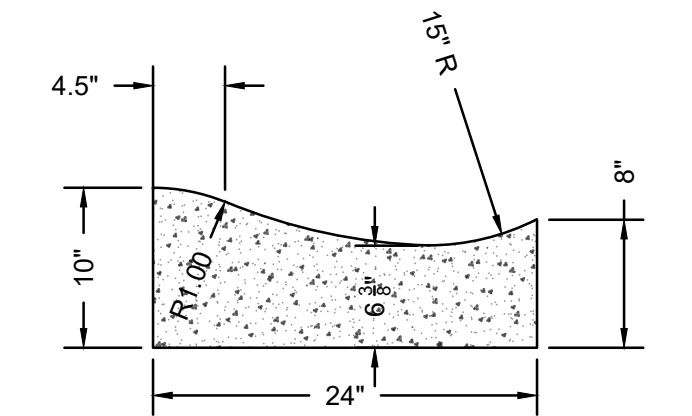
GROVE CABINS PH1 & MOUNTAINSIDE PH 2

CONSTRUCTION DOCUMENTS

1/12/21 - LEWIS HOMES, THE BRIDGES, PHASE 2 - MOUNTAINSIDE - CABINS PLANS, DESIGN, CIVIL, PROFESSIONALS AND MOUNTAINSIDE, REVISED 5-3-16.DWG

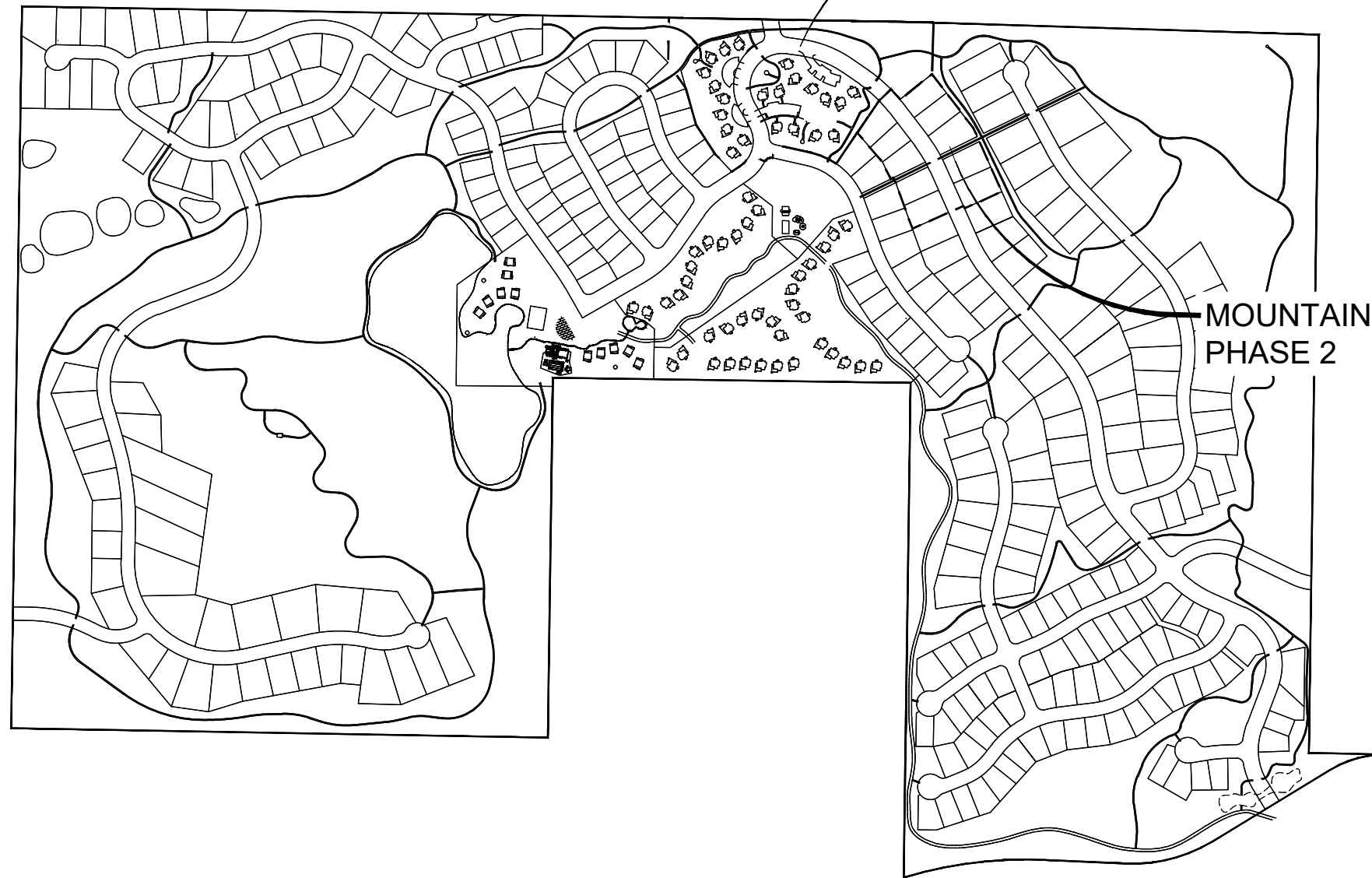


- KEY NOTES:**
- 1 24" ROLLED CURB AND GUTTER
  - 2 ASPHALT PAVEMENT: 3" ASPHALT/6" ROAD BASE/8" SUB BASE
  - 3 TRAIL
  - 4 4' SIDEWALK
  - 5 GROVE CABINS PHASE 1 BOUNDARY
  - 6 SAW CUT EXISTING ASPHALT
  - 7 STAIRS

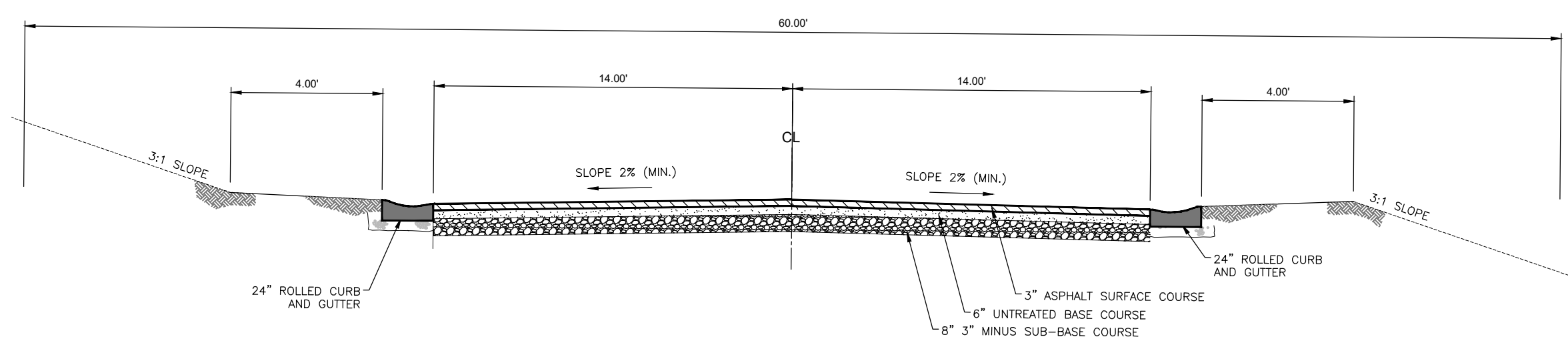


24" ROLLED CURB AND GUTTER

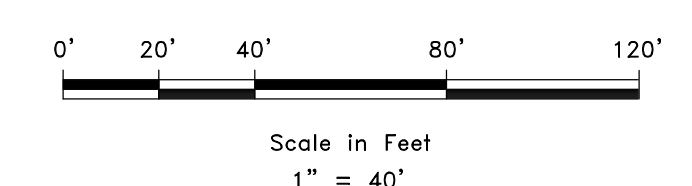
**SITE NOTES**  
 MOUNTAINSIDE PHASE 2  
 10 LOTS  
 3.79 ACRES  
 GROVES CABINS PHASE 1  
 22 UNITS  
 9.07 ACRES



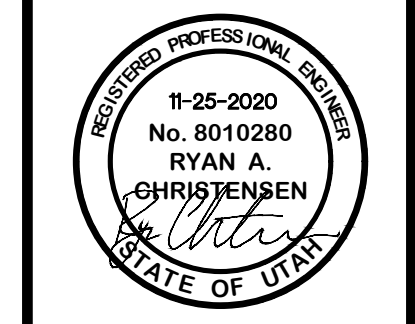
THE BRIDGES VICINITY MAP



60' ROW - TYPICAL ROADWAY  
 NOT TO SCALE



REVISIONS	DESCRIPTION
DATE	



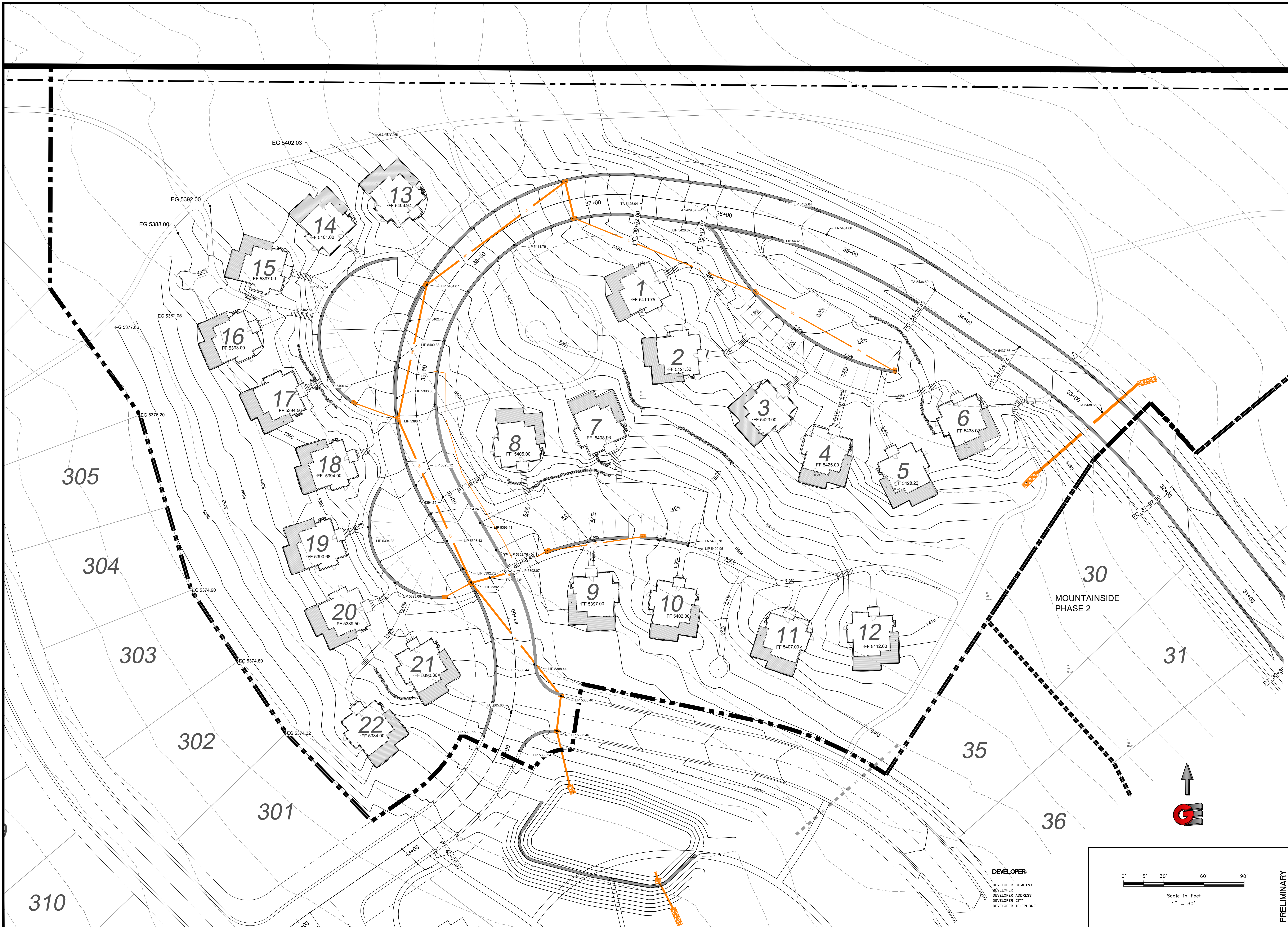
SITE PLAN PHASE 1  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

**GARDNER ENGINEERING**  
 CIVIL • LAND PLANNING  
 MUNICIPAL • LAND SURVEYING  
 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

PRELIMINARY **SP1**

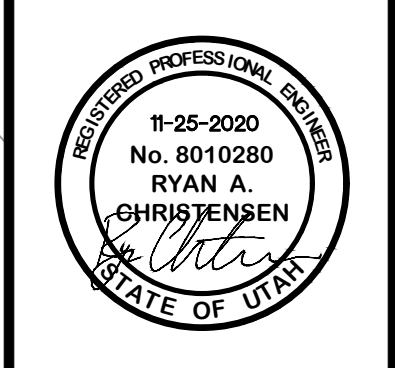
DWG:

R:\1201 - LEWIS HOMES THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN DWG GROVE CABINS AND MOUNTAINSIDE REVISED 5-9-16.DWG



SCALE	1" = 30'
DATE	11-25-2020
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

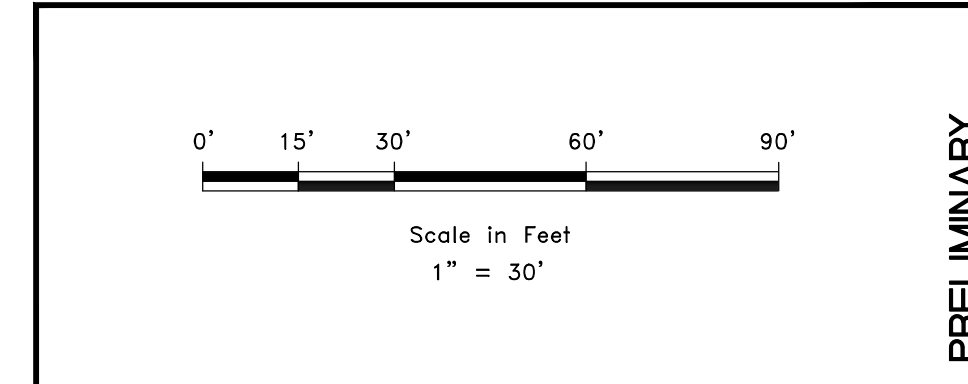
REVISIONS	DESCRIPTION	DATE



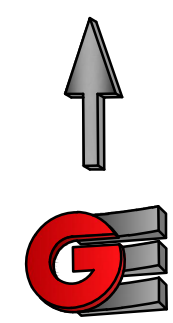
**GRADING PLAN**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
**EDEN, WEBER, UTAH**

**GARDNER ENGINEERING**  
 CIVIL • LAND PLANNING  
 MUNICIPAL • LAND SURVEYING  
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PRELIMINARY **GP1**



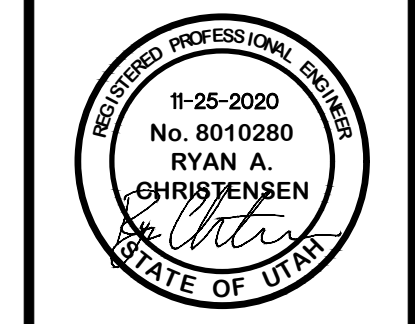
**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE



R:\1201 - LEWIS HOMES\THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS\DESIGN\DWG\GROVE\CABINS AND INTERIOR\_REVISED\_5-9-16.DWG



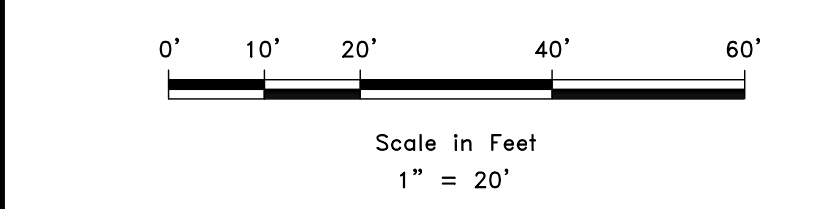
REVISIONS	DATE	DESCRIPTION



**GRADING PLAN**  
**THE BRIDGES**  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

**GARDNER ENGINEERING**  
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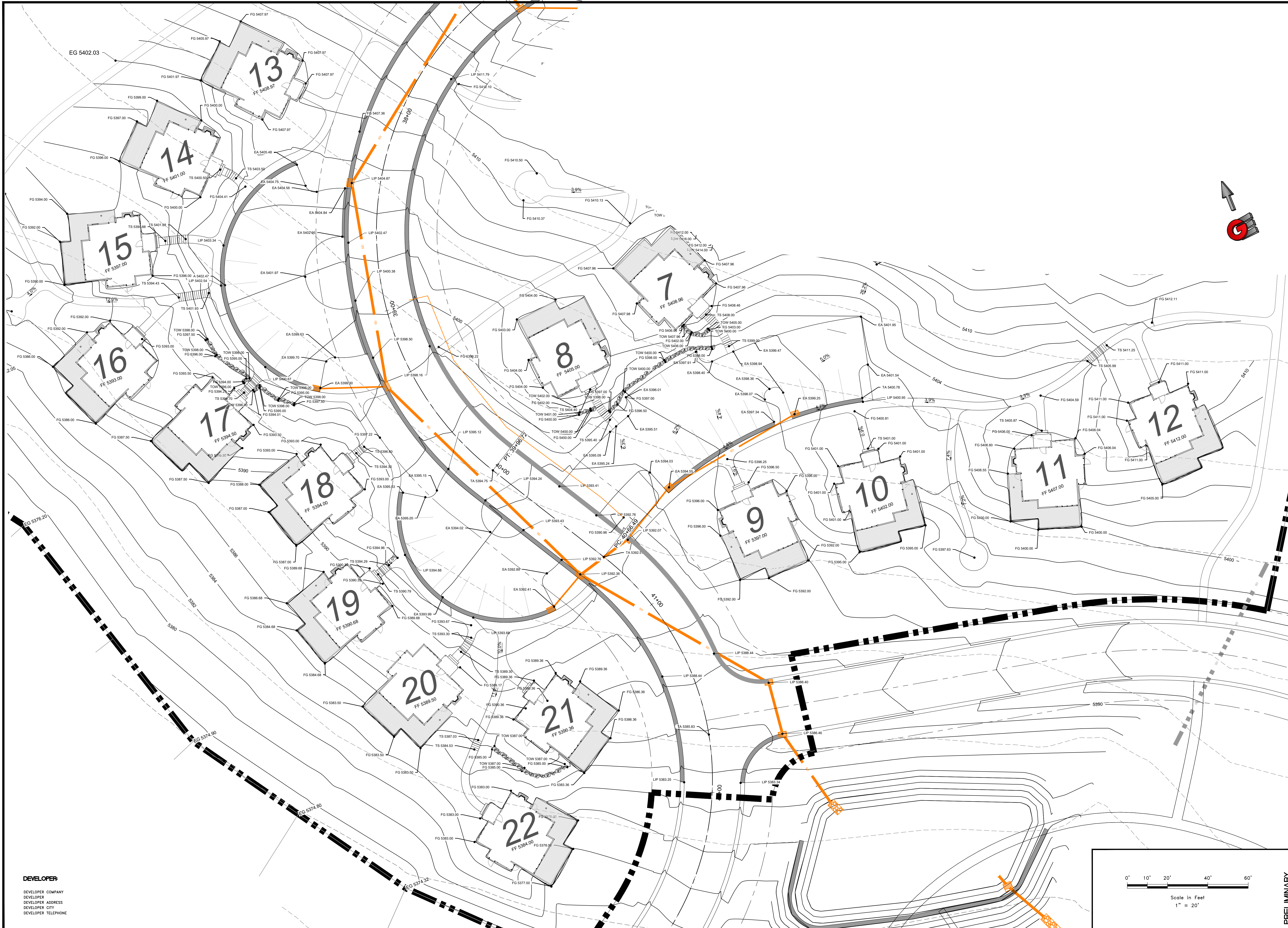
**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE



PRELIMINARY **GP1A**

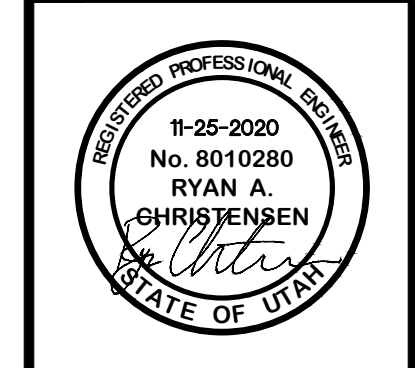
DWG: \_\_\_\_\_

RY1201 - LEWIS HOMES THE BRIDGES, PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN (DWG) SUBMITTALS AND INTERIM REVISED 3-9-18.DWG



SCALE	1" = 20'
DATE	11-25-2020
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

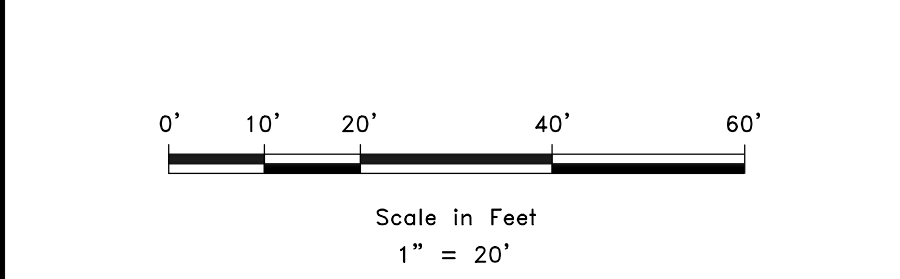
REVISIONS	DESCRIPTION
DATE	



**GRADING PLAN**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
**EDEN, WEBER, UTAH**

**GARDNER ENGINEERING**  
 CIVIL • LAND PLANNING  
 MUNICIPAL • LAND SURVEYING  
 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

PRELIMINARY  
**GP1B**

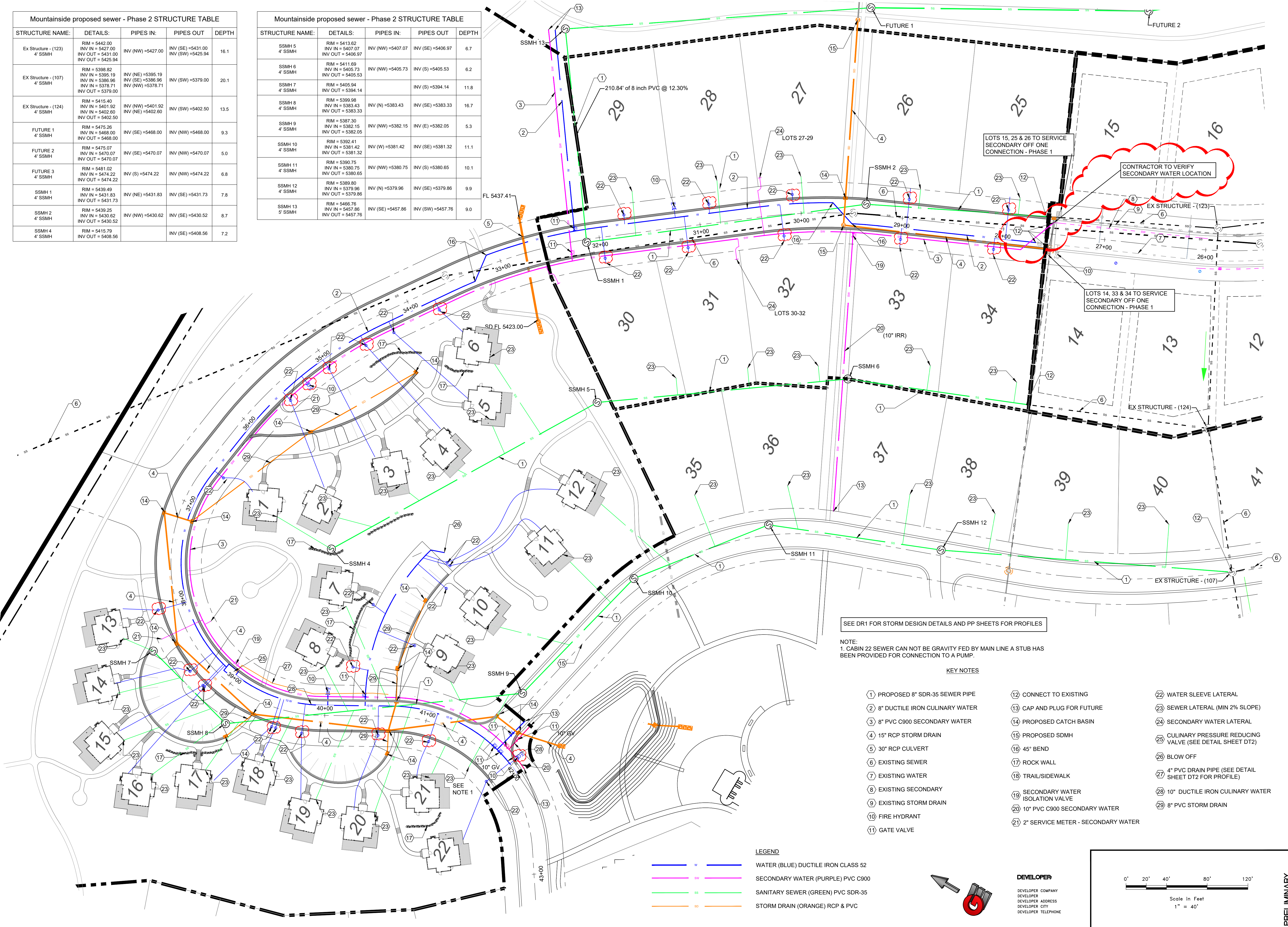


**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE

EX-1201 - LEWIS, JONAS; THE BRIDGES, PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN DWA; GROVE CABINS AND MOUNTAINSIDE REVISED - 1-13-21; DWG: 1/13/21

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:	DEPTH:
Ex Structure - (123) 4" SSMH	RIM = 5442.00 INV IN = 5427.00 INV OUT = 5431.00 INV OUT = 5425.94	INV (NW) = 5427.00	INV (SE) = 5431.00 INV (SW) = 5425.94	16.1
EX Structure - (107) 4" SSMH	RIM = 5398.82 INV IN = 5395.19 INV (SE) = 5386.96 INV IN = 5378.71 INV OUT = 5379.00	INV (NE) = 5395.19 INV (SE) = 5386.96 INV (NW) = 5378.71	INV (SW) = 5379.00	20.1
EX Structure - (124) 4" SSMH	RIM = 5415.40 INV IN = 5401.92 INV IN = 5402.60 INV OUT = 5402.60	INV (NW) = 5401.92 INV (NE) = 5402.60	INV (SW) = 5402.50	13.5
FUTURE 1 4" SSMH	RIM = 5475.26 INV IN = 5468.00 INV OUT = 5468.00	INV (SE) = 5468.00	INV (NW) = 5468.00	9.3
FUTURE 2 4" SSMH	RIM = 5475.07 INV IN = 5470.07 INV OUT = 5470.07	INV (SE) = 5470.07	INV (NW) = 5470.07	5.0
FUTURE 3 4" SSMH	RIM = 5481.02 INV IN = 5474.22 INV OUT = 5474.22	INV (S) = 5474.22	INV (NW) = 5474.22	6.8
SSMH 1 4" SSMH	RIM = 5439.49 INV IN = 5431.83 INV IN = 5431.73	INV (NE) = 5431.83	INV (SE) = 5431.73	7.8
SSMH 2 4" SSMH	RIM = 5439.25 INV IN = 5430.62 INV OUT = 5430.52	INV (NW) = 5430.62	INV (SE) = 5430.52	8.7
SSMH 4 4" SSMH	RIM = 5415.79 INV OUT = 5408.56		INV (SE) = 5408.56	7.2

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:	DEPTH:
SSMH 5 4" SSMH	RIM = 5413.62 INV IN = 5407.07 INV OUT = 5406.97	INV (NW) = 5407.07	INV (SE) = 5406.97	6.7
SSMH 6 4" SSMH	RIM = 5411.69 INV IN = 5405.73 INV OUT = 5405.53	INV (NW) = 5405.73	INV (S) = 5405.53	6.2
SSMH 7 4" SSMH	RIM = 5405.94 INV IN = 5394.14		INV (S) = 5394.14	11.8
SSMH 8 4" SSMH	RIM = 5399.98 INV IN = 5383.43 INV OUT = 5383.33	INV (N) = 5383.43	INV (SE) = 5383.33	16.7
SSMH 9 4" SSMH	RIM = 5387.30 INV IN = 5382.15 INV OUT = 5382.05	INV (NW) = 5382.15	INV (E) = 5382.05	5.3
SSMH 10 4" SSMH	RIM = 5392.41 INV IN = 5381.42 INV OUT = 5381.32	INV (W) = 5381.42	INV (SE) = 5381.32	11.1
SSMH 11 4" SSMH	RIM = 5390.75 INV IN = 5380.75 INV OUT = 5380.65	INV (NW) = 5380.75	INV (S) = 5380.65	10.1
SSMH 12 4" SSMH	RIM = 5389.80 INV IN = 5379.96 INV OUT = 5379.86	INV (N) = 5379.96	INV (SE) = 5379.86	9.9
SSMH 13 9" SSMH	RIM = 5466.76 INV IN = 5457.86 INV OUT = 5457.76	INV (SE) = 5457.86	INV (SW) = 5457.76	9.0



SEE DR1 FOR STORM DESIGN DETAILS AND PP SHEETS FOR PROFILES

NOTE:  
1. CABIN 22 SEWER CAN NOT BE GRAVITY FED BY MAIN LINE A STUB HAS BEEN PROVIDED FOR CONNECTION TO A PUMP.

KEY NOTES

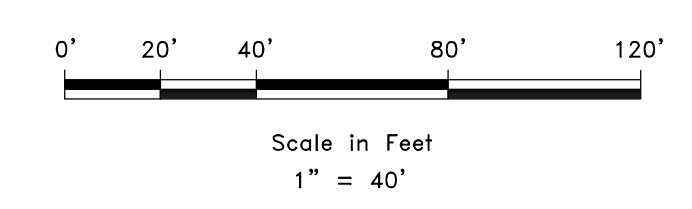
- |                                   |                                       |                                                            |
|-----------------------------------|---------------------------------------|------------------------------------------------------------|
| 1 PROPOSED 8" SDR-35 SEWER PIPE   | 12 CONNECT TO EXISTING                | 22 WATER SLEEVE LATERAL                                    |
| 2 8" DUCTILE IRON SECONDARY WATER | 13 CAP AND PLUG FOR FUTURE            | 23 SEWER LATERAL (MIN 2% SLOPE)                            |
| 3 8" PVC C900 SECONDARY WATER     | 14 PROPOSED CATCH BASIN               | 24 SECONDARY WATER LATERAL                                 |
| 4 15" RCP STORM DRAIN             | 15 PROPOSED SDMH                      | 25 CULINARY PRESSURE REDUCING VALVE (SEE DETAIL SHEET DT2) |
| 5 30" RCP CULVERT                 | 16 45° BEND                           | 26 BLOW OFF                                                |
| 6 EXISTING SEWER                  | 17 ROCK WALL                          | 27 4" PVC DRAIN PIPE (SEE DETAIL SHEET DT2 FOR PROFILE)    |
| 7 EXISTING WATER                  | 18 TRAIL/SIDEWALK                     | 28 10" DUCTILE IRON CULINARY WATER                         |
| 8 EXISTING SECONDARY              | 19 SECONDARY WATER ISOLATION VALVE    | 29 8" PVC STORM DRAIN                                      |
| 9 EXISTING STORM DRAIN            | 20 10" PVC C900 SECONDARY WATER       |                                                            |
| 10 FIRE HYDRANT                   | 21 2" SERVICE METER - SECONDARY WATER |                                                            |
| 11 GATE VALVE                     |                                       |                                                            |

LEGEND

- WATER (BLUE) DUCTILE IRON CLASS 52
- SECONDARY WATER (PURPLE) PVC C900
- SANITARY SEWER (GREEN) PVC SDR-35
- STORM DRAIN (ORANGE) RCP & PVC

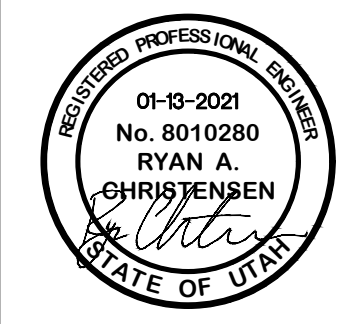
DEVELOPER:

DEVELOPER COMPANY  
DEVELOPER ADDRESS  
DEVELOPER CITY  
DEVELOPER TELEPHONE



SCALE: 1" = 40'	DATE: 01-13-2021	DESIGN: KAN	DRAWN: KAN	CHECKED: RC
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REVISIONS	DESCRIPTION	DATE
1	REVISED SECONDARY CONNECTION AND WATER LATERALS	01/13/2021



UTILITY PLAN  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

**GARDNER ENGINEERING**  
 CIVIL, LAND PLANNING  
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 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

PRELIMINARY  
 UTI

**Drainage Phase 1  
The Bridges - Grove Cabins**

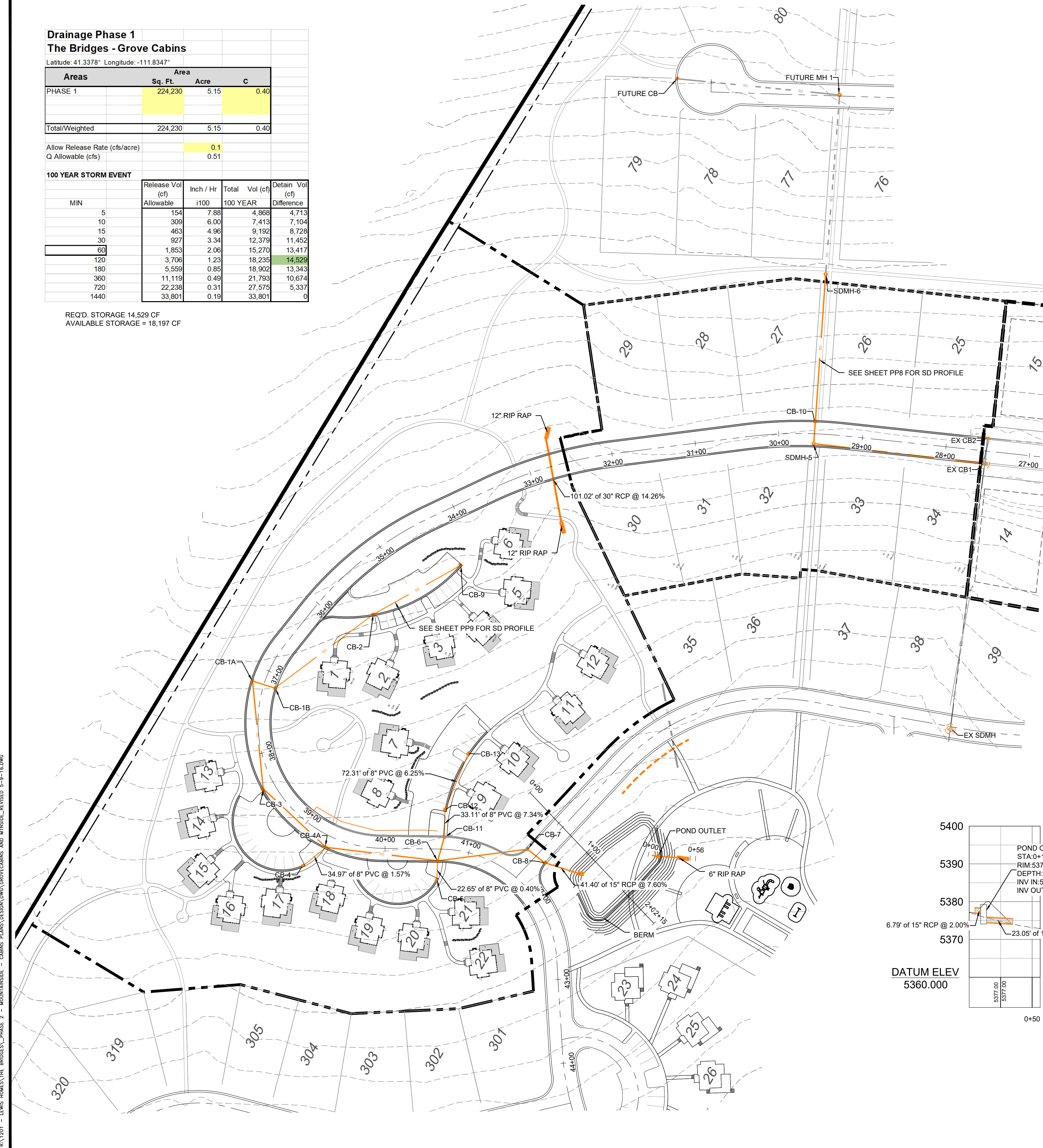
Latitude: 41.3378° Longitude: -111.8347°

Areas	Sq. Ft.	Acre	C
PHASE 1	224,230	5.15	0.40
<b>Total/Weighted</b>	<b>224,230</b>	<b>5.15</b>	<b>0.40</b>

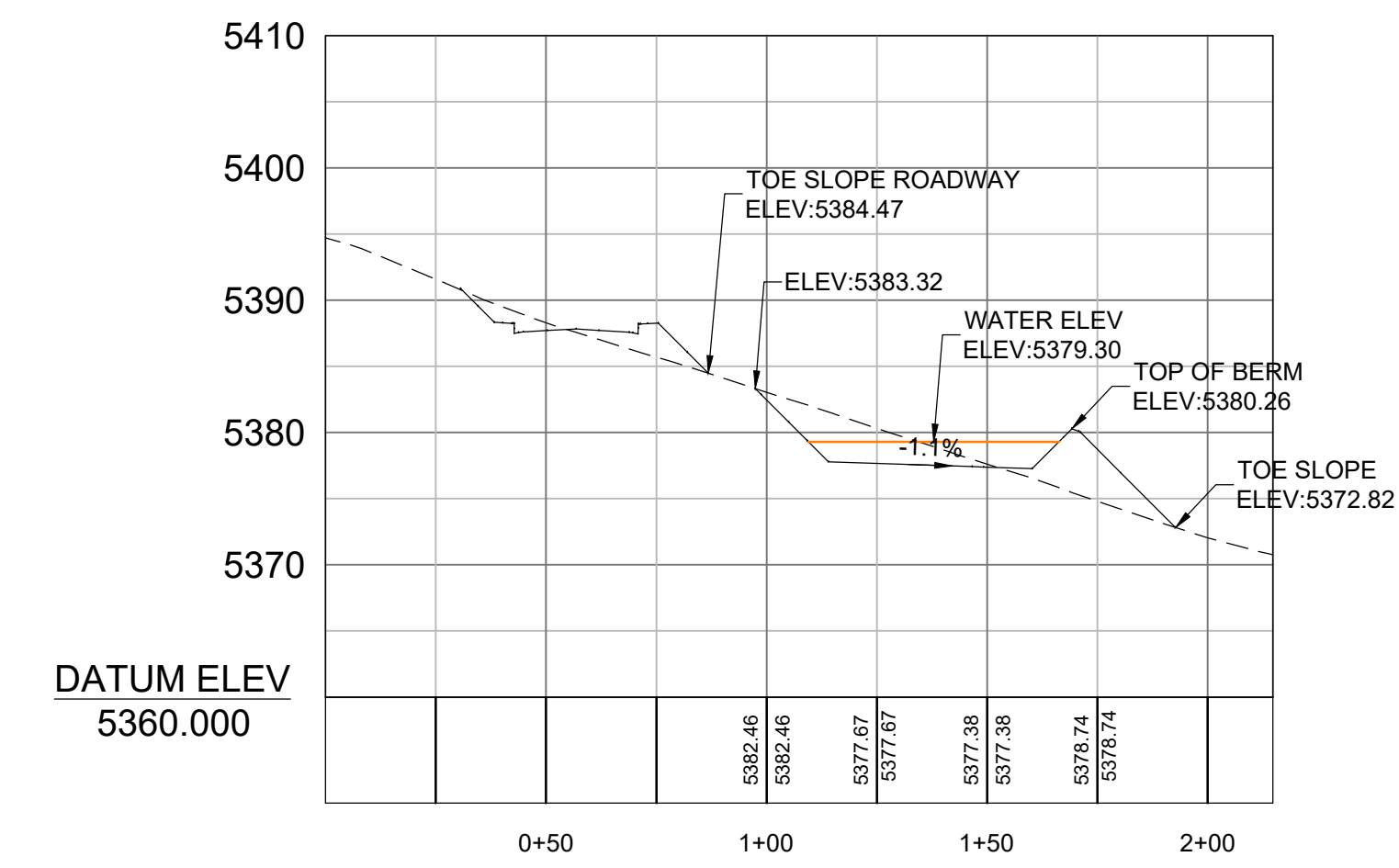
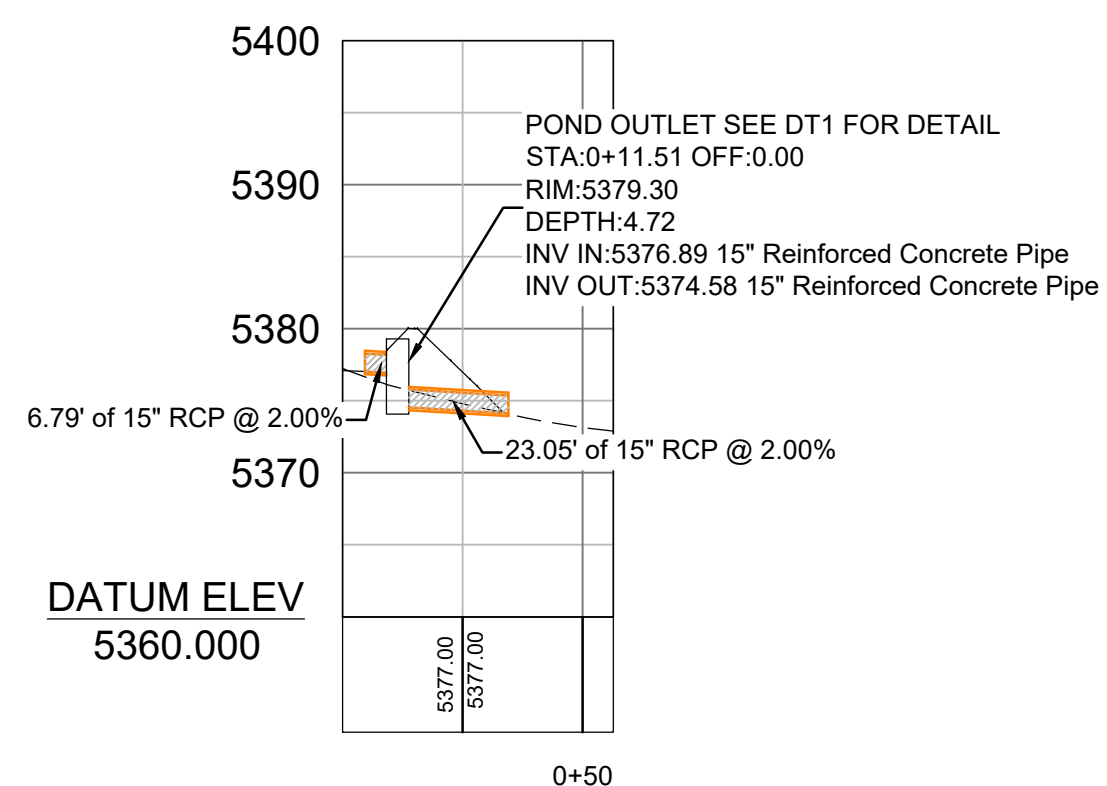
Allow Release Rate (cfs/acre) **0.1**  
Q Allowable (cfs) **0.51**

MIN	Release Vol (cf)		Total Vol (cf)	Vol (cf) 100 YEAR	Detain Vol (cf) Difference
	Allowable	Inch / Hr			
5	154	7.88	4,868	4,713	
10	309	6.00	7,413	7,104	
15	463	4.96	9,192	8,728	
30	927	3.34	12,379	11,452	
<b>60</b>	<b>1,853</b>	<b>2.06</b>	<b>15,270</b>	<b>13,417</b>	
120	3,706	1.23	18,235	14,529	
180	5,559	0.85	18,902	13,343	
360	11,119	0.49	21,793	10,674	
720	22,238	0.31	27,575	5,337	
1440	33,801	0.19	33,801	0	

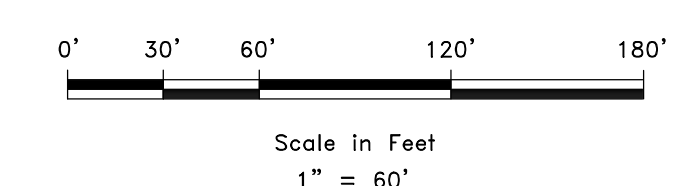
REQ'D STORAGE 14,529 CF  
AVAILABLE STORAGE = 18,197 CF



STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
CB-1A - CATCH BASIN	GRATE = 5418.25 INV IN = 5414.40 INV OUT = 5414.30	15" RCP INV (S)=5414.40	15" RCP INV (SW)=5414.30
CB-1B - CATCH BASIN	GRATE = 5418.34 INV IN = 5414.54 INV OUT = 5414.54	8" RCP INV (E)=5414.64	15" RCP INV (N)=5414.54
CB-2 - CATCH BASIN	GRATE = 5420.45 INV IN = 5422.59 INV OUT = 5422.49	8" RCP INV (SE)=5422.59	8" RCP INV (W)=5422.49
CB-3 - CATCH BASIN	GRATE = 5404.87 INV IN = 5401.02 INV OUT = 5400.92	15" RCP INV (NE)=5401.02	15" RCP INV (S)=5400.92
CB-4 - CATCH BASIN	GRATE = 5399.45 INV IN = 5394.73		8" RCP INV (E)=5394.73
CB-4A - CATCH BASIN	GRATE = 5397.86 INV IN = 5394.28 INV IN = 5394.18 INV OUT = 5394.28	15" RCP INV (N)=5394.28 8" RCP INV (W)=5394.18	15" RCP INV (SE)=5394.28
CB-5 - CATCH BASIN	GRATE = 5392.52 INV OUT = 5388.67		8" RCP INV (NE)=5388.67
CB-6 - CATCH BASIN	GRATE = 5392.36 INV IN = 5388.38 INV IN = 5388.58 INV IN = 5388.38 INV OUT = 5388.38	15" RCP INV (NW)=5388.38 8" RCP INV (SW)=5388.58 15" RCP INV (E)=5388.38	15" RCP INV (SE)=5388.38
CB-7 - CATCH BASIN	GRATE = 5386.40 INV IN = 5382.90 INV OUT = 5382.80	15" RCP INV (NW)=5382.90	15" RCP INV (S)=5382.80
CB-8 - CATCH BASIN	GRATE = 5386.46 INV IN = 5381.65 INV OUT = 5380.90	15" RCP INV (N)=5381.65	15" RCP INV (S)=5380.90
CB-9 - CATCH BASIN	GRATE = 5425.72 INV OUT = 5423.07		8" RCP INV (NW)=5423.07
CB-10 - CATCH BASIN	GRATE = 5439.01 INV IN = 5435.55 INV OUT = 5435.45	15" RCP INV (NE)=5435.55	15" RCP INV (SW)=5435.45
CB-11 - CATCH BASIN	GRATE = 5392.08 INV IN = 5389.02 INV OUT = 5388.52	8" RCP INV (NE)=5389.02	15" RCP INV (W)=5388.52
CB-12 - CATCH BASIN	GRATE = 5394.55 INV IN = 5391.55 INV OUT = 5391.45	8" RCP INV (E)=5391.55	8" RCP INV (SW)=5391.45
CB-13 - CATCH BASIN	GRATE = 5399.26 INV OUT = 5396.07		8" RCP INV (W)=5396.07
EX CB1 - CATCH BASIN	GRATE = 5437.83 INV IN = 5432.69 INV IN = 5432.83 INV OUT = 5428.10	15" RCP INV (NE)=5432.69 15" RCP INV (NW)=5432.83	15" RCP INV (SW)=5428.10
EX CB2 - CATCH BASIN	GRATE = 5437.83 INV OUT = 5433.22		15" RCP INV (SW)=5433.22
EX SDMH - EX SDMH	GRATE = 5392.61 INV IN = 5384.50	15" RCP INV (NE)=5384.50	
FUTURE CB - CATCH BASIN	GRATE = 5506.34 INV OUT = 5500.84		15" RCP INV (SE)=5500.84
FUTURE MH 1 - SDMH	GRATE = 5510.06 INV IN = 5500.06 INV OUT = 5499.96	15" RCP INV (NW)=5500.06	15" RCP INV (SW)=5499.96
POND OUTLET - 4X4 BOX	GRATE = 5379.30 INV IN = 5376.89 INV OUT = 5374.58	15" RCP INV (N)=5376.89	15" RCP INV (SE)=5374.58
SDMH-5 - SDMH	GRATE = 5439.19 INV IN = 5435.19 INV OUT = 5434.86	15" RCP INV (NE)=5435.19	15" RCP INV (SE)=5434.86
SDMH-6 - SDMH	GRATE = 5472.93 INV IN = 5467.93 INV OUT = 5467.83	15" RCP INV (NE)=5467.93	15" RCP INV (SW)=5467.83

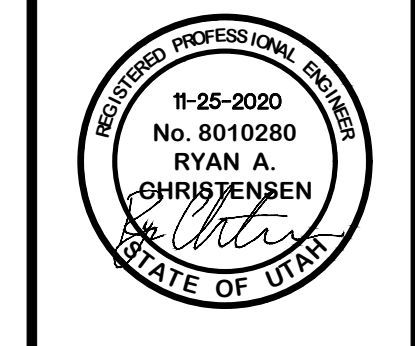


DATUM ELEV 5360.000



REVISIONS	DESCRIPTION
DATE	

DWG:



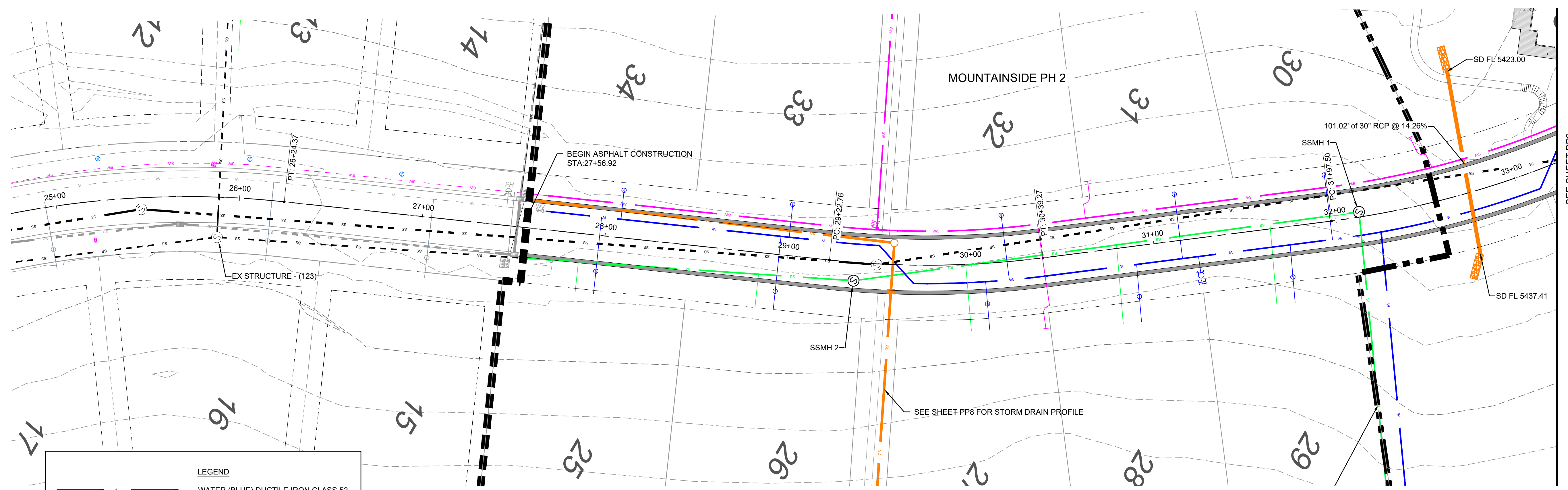
**DRAINAGE PLAN**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
**EDEN, WEBER, UTAH**

**GARDNER ENGINEERING**  
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PRELIMINARY  
**DR1**

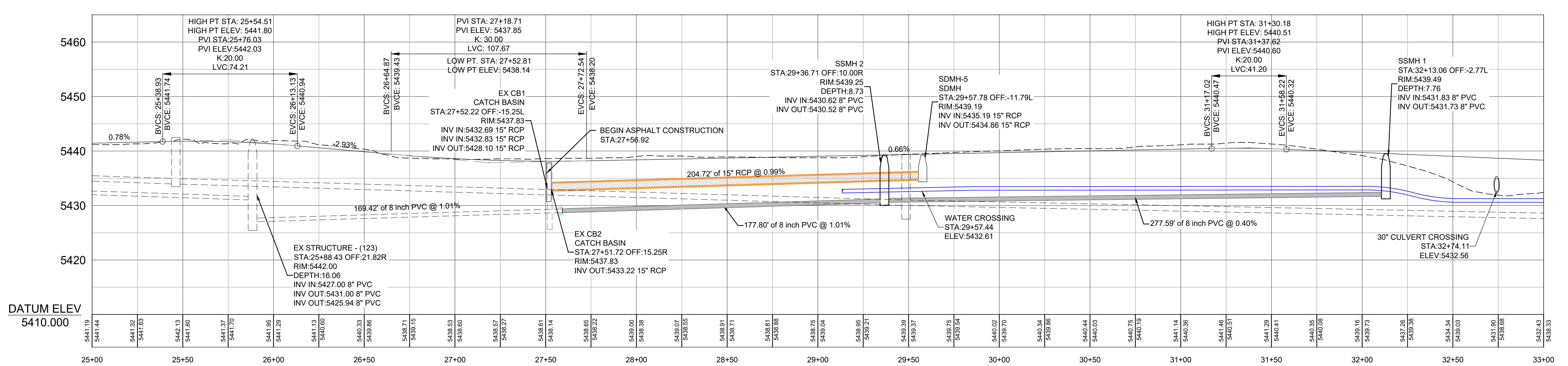
RA 1201 - LEWIS HOMER THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN DWG GROVE CABINS AND MOUNTAINSIDE PHASE 1 - 5-9-16.DWG

PLAN AND PROFILE - SEVEN BRIDGES  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH



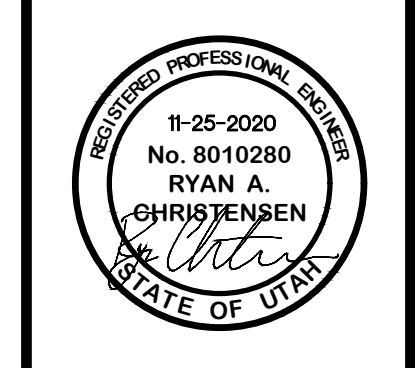
**LEGEND**

- WATER (BLUE) DUCTILE IRON CLASS 52
- SECONDARY WATER (PURPLE) PVC C900
- SANITARY SEWER (GREEN) PVC SDR-35
- STORM DRAIN (ORANGE) RCP & PVC



SCALE: 1" = 30'  
 DATE: 11-25-2020  
 DESIGN: KAN  
 DRAWN: KAN  
 CHECKED: RC

REVISIONS	DESCRIPTION
DATE	

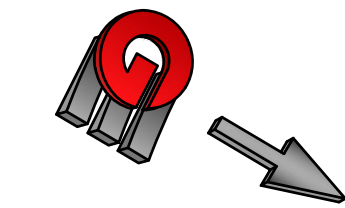
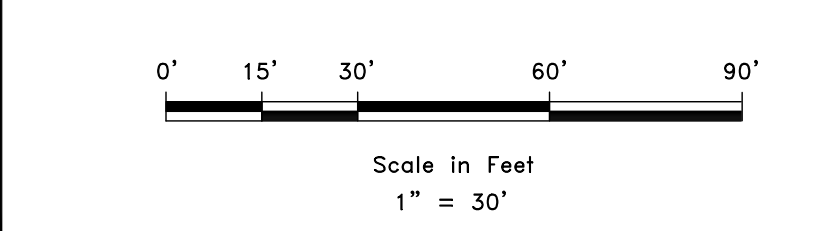


**PLAN AND PROFILE - SEVEN BRIDGES**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
 EDEN, WEBER, UTAH

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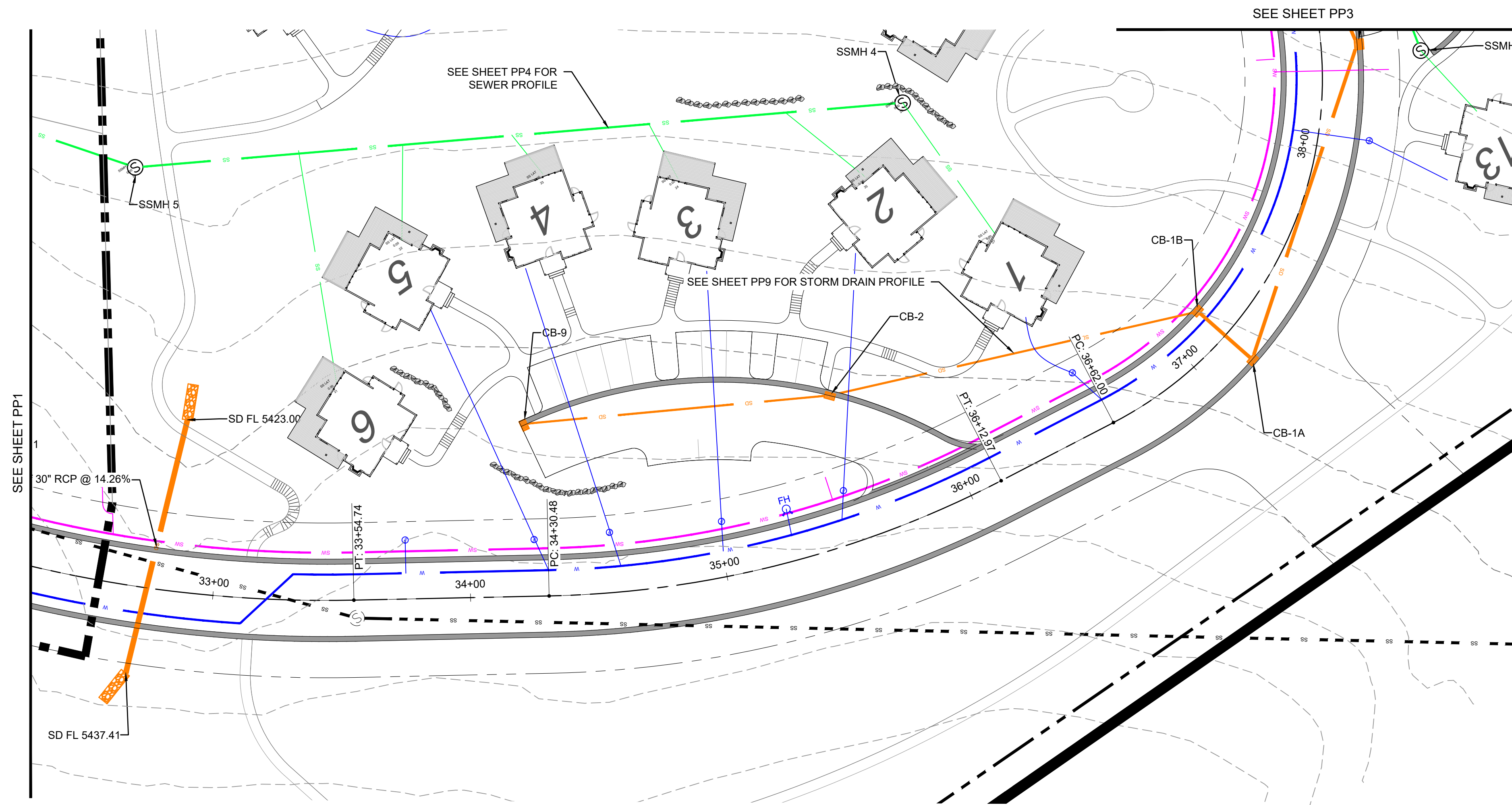
PRELIMINARY  
 PP1

**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE

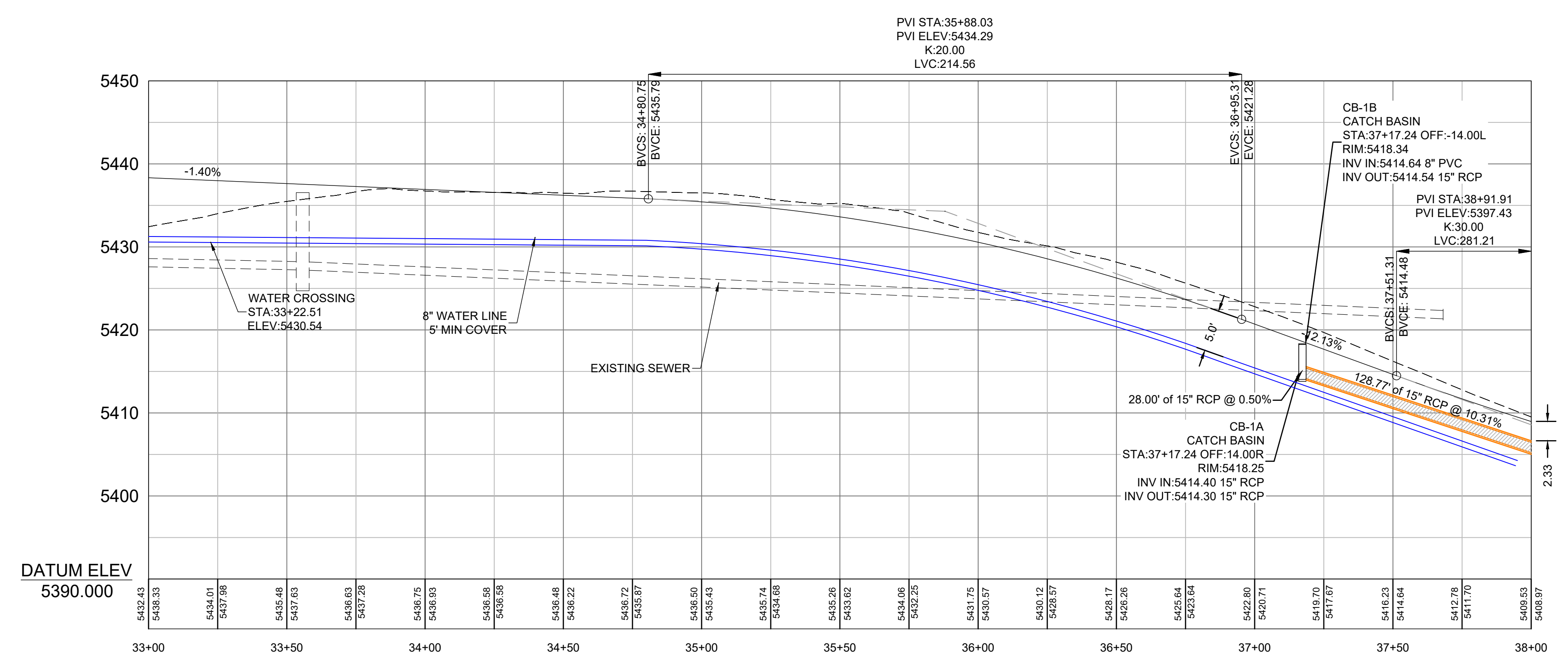




PN 1201 - LEWIS HONESTY THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN (W/O GROVE CABINS AND MOUNTAINSIDE) REVISED 5-5-16.DWG

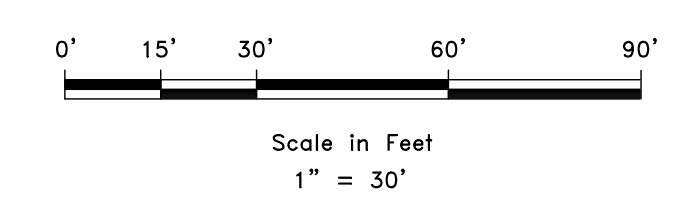


VICINITY MAP



- LEGEND**
- \* WATER (BLUE) DUCTILE IRON CLASS 52
  - \* SECONDARY WATER (PURPLE) PVC C900
  - \* SANITARY SEWER (GREEN) PVC SDR-35
  - \* STORM DRAIN (ORANGE) RCP & PVC

**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE



PRELIMINARY

PP2

**PLAN AND PROFILE - SEVEN BRIDGES**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
**EDEN, WEBER, UTAH**

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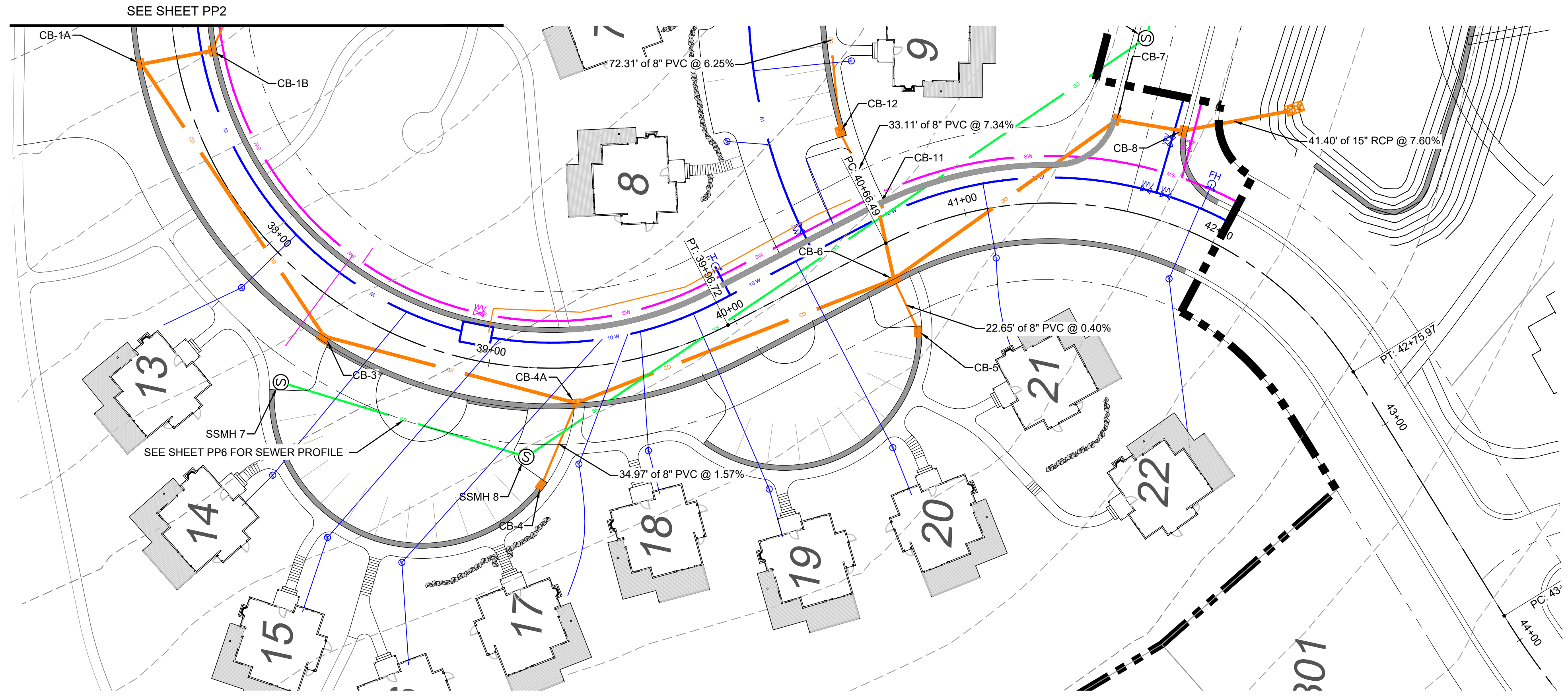
REVISIONS	DESCRIPTION
DATE	

REGISTERED PROFESSIONAL ENGINEER  
 11-25-2020  
 No. 8010280  
 RYAN A. CHRISTENSEN  
 STATE OF UTAH

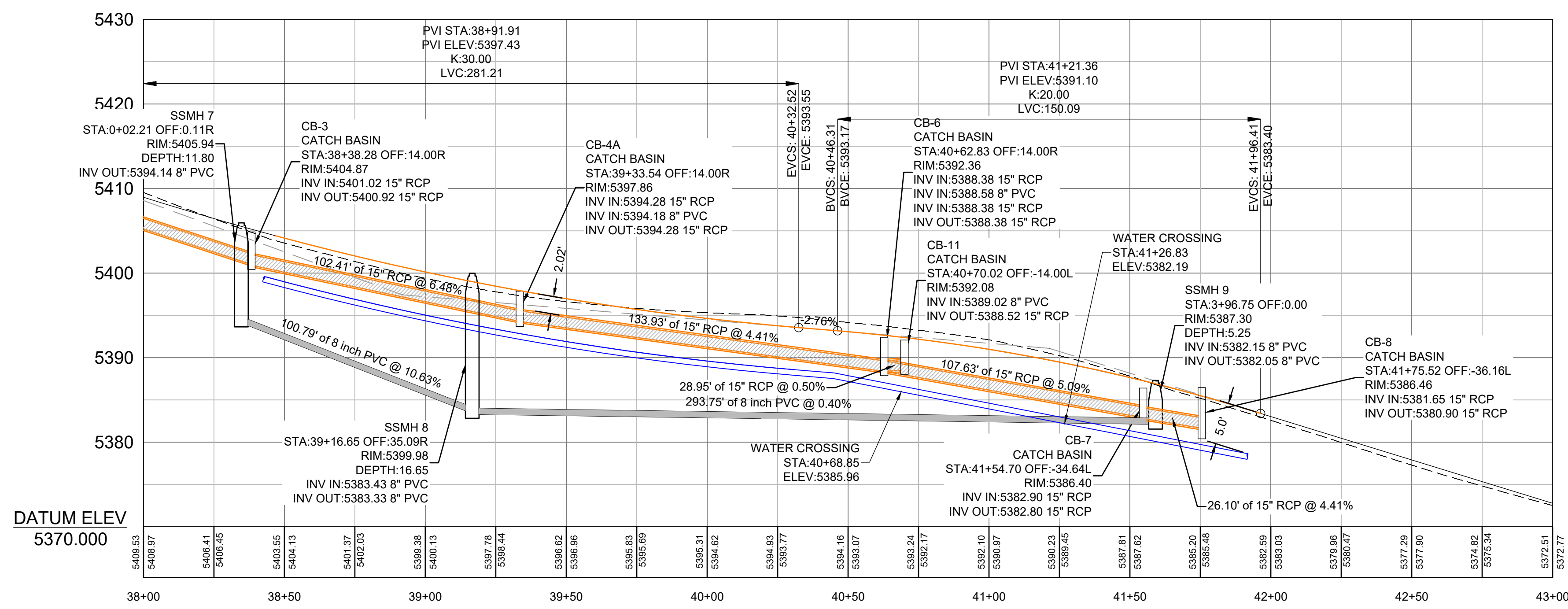
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 DATE: 11-25-2020  
 DESIGN: KAN  
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 CHECKED: RC

DWG:

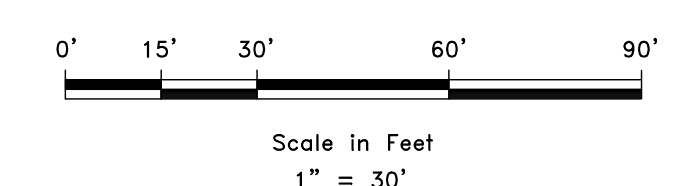
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VICINITY MAP



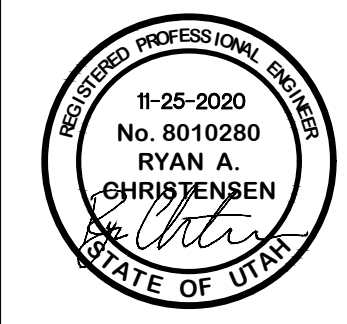
- LEGEND**
- W WATER (BLUE) DUCTILE IRON CLASS 52
  - SW SECONDARY WATER (PURPLE) PVC C900
  - SS SANITARY SEWER (GREEN) PVC SDR-35
  - SD STORM DRAIN (ORANGE) RCP & PVC



**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE

SCALE: 1" = 30'  
 DATE: 11-25-2020  
 DESIGN: KAN  
 DRAWN: KAN  
 CHECKED: RC

REVISIONS	DATE	DESCRIPTION



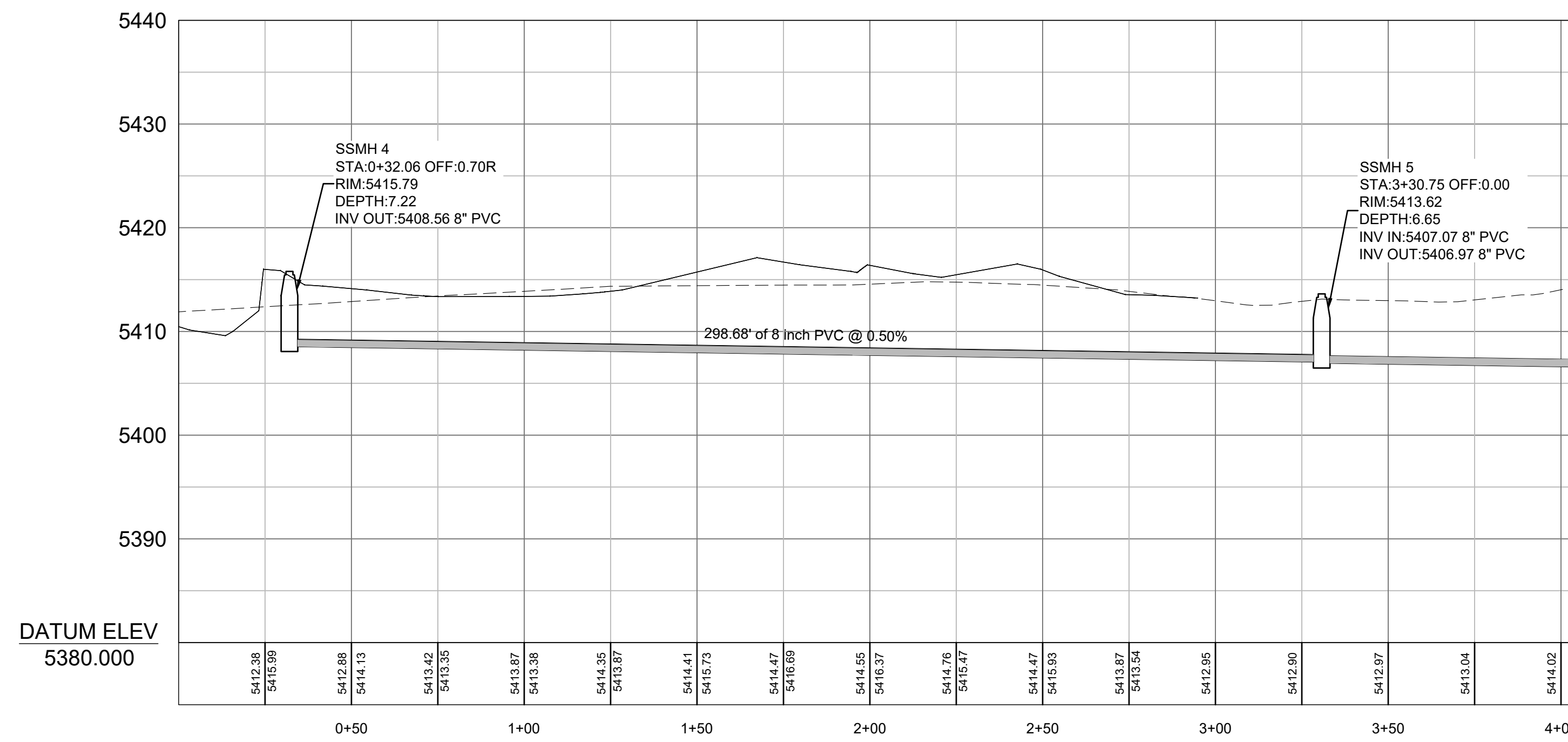
PLAN AND PROFILE SEVEN BRIDGES  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

**GARDNER ENGINEERING**  
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PN 201 - LEWIS HONESTY THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN, DWA, PROTECTING AND WIRING\_REVISED 5-9-16.DWG

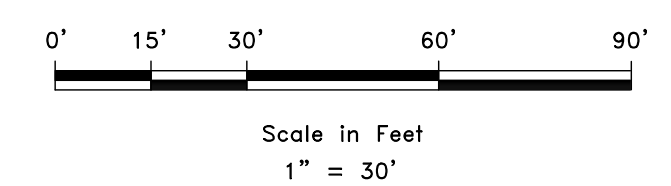


VICINITY MAP

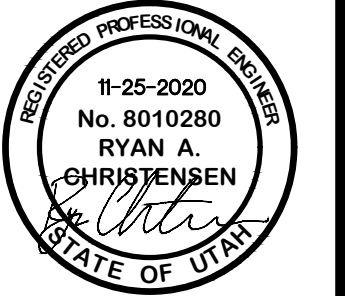


- LEGEND**
- W WATER (BLUE) DUCTILE IRON CLASS 52
  - SW SECONDARY WATER (PURPLE) PVC C900
  - SS SANITARY SEWER (GREEN) PVC SDR-35
  - SD STORM DRAIN (ORANGE) RCP & PVC

**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE



REVISIONS	DATE	DESCRIPTION

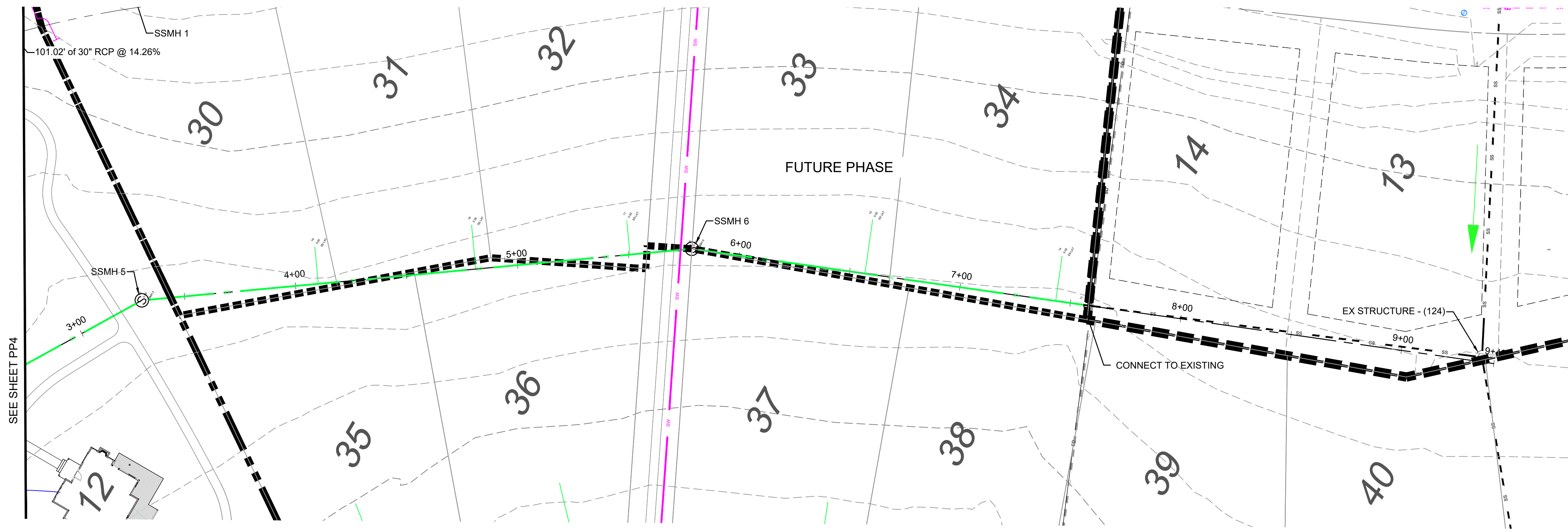


PLAN AND PROFILE SEWER  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

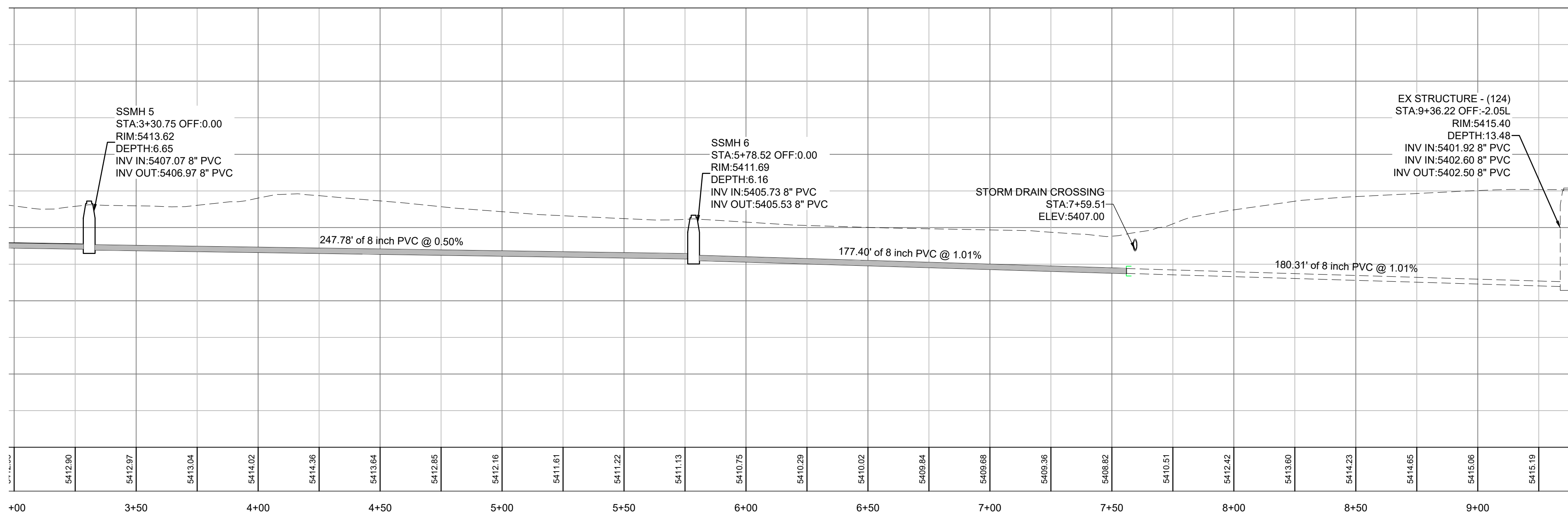
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 5150 SOUTH 375 EAST OGDEN, UT  
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PRELIMINARY **PP4**

RA1201 - LEWIS HOMES THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS DESIGN DWG (PROV) CABINS AND MNSIDE\_REVISED 5-9-18.DWG

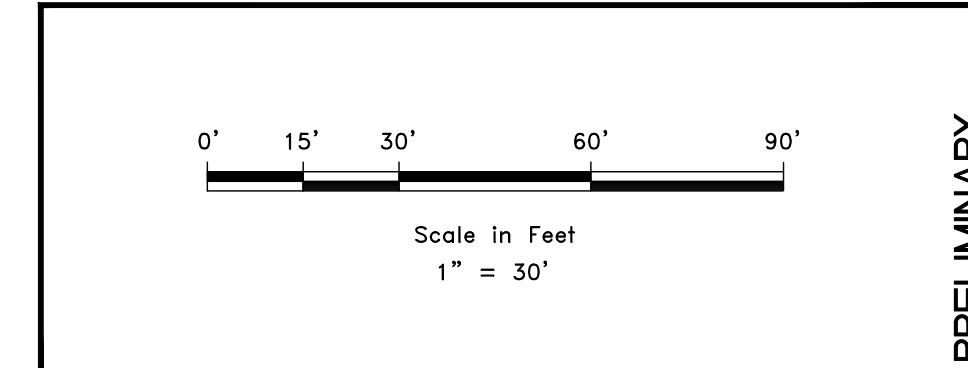


VICINITY MAP



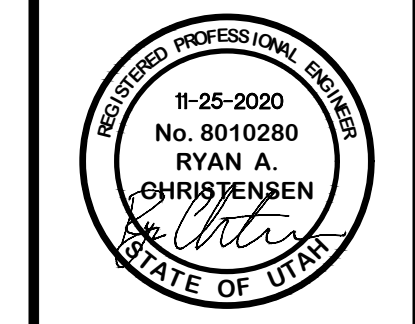
**NOTE:**  
ALL BACK LOT SEWER MANHOLES TO BE SET 6" ABOVE FINISHED GROUND.

- LEGEND**
- WATER (BLUE) DUCTILE IRON CLASS 52
  - SECONDARY WATER (PURPLE) PVC C900
  - SANITARY SEWER (GREEN) PVC SDR-35
  - STORM DRAIN (ORANGE) RCP & PVC



**DEVELOPER:**  
DEVELOPER COMPANY  
DEVELOPER ADDRESS  
DEVELOPER CITY  
DEVELOPER TELEPHONE

REVISIONS	DATE	DESCRIPTION



PLAN AND PROFILE SEWER  
THE BRIDGES  
GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
EDEN, WEBER, UTAH

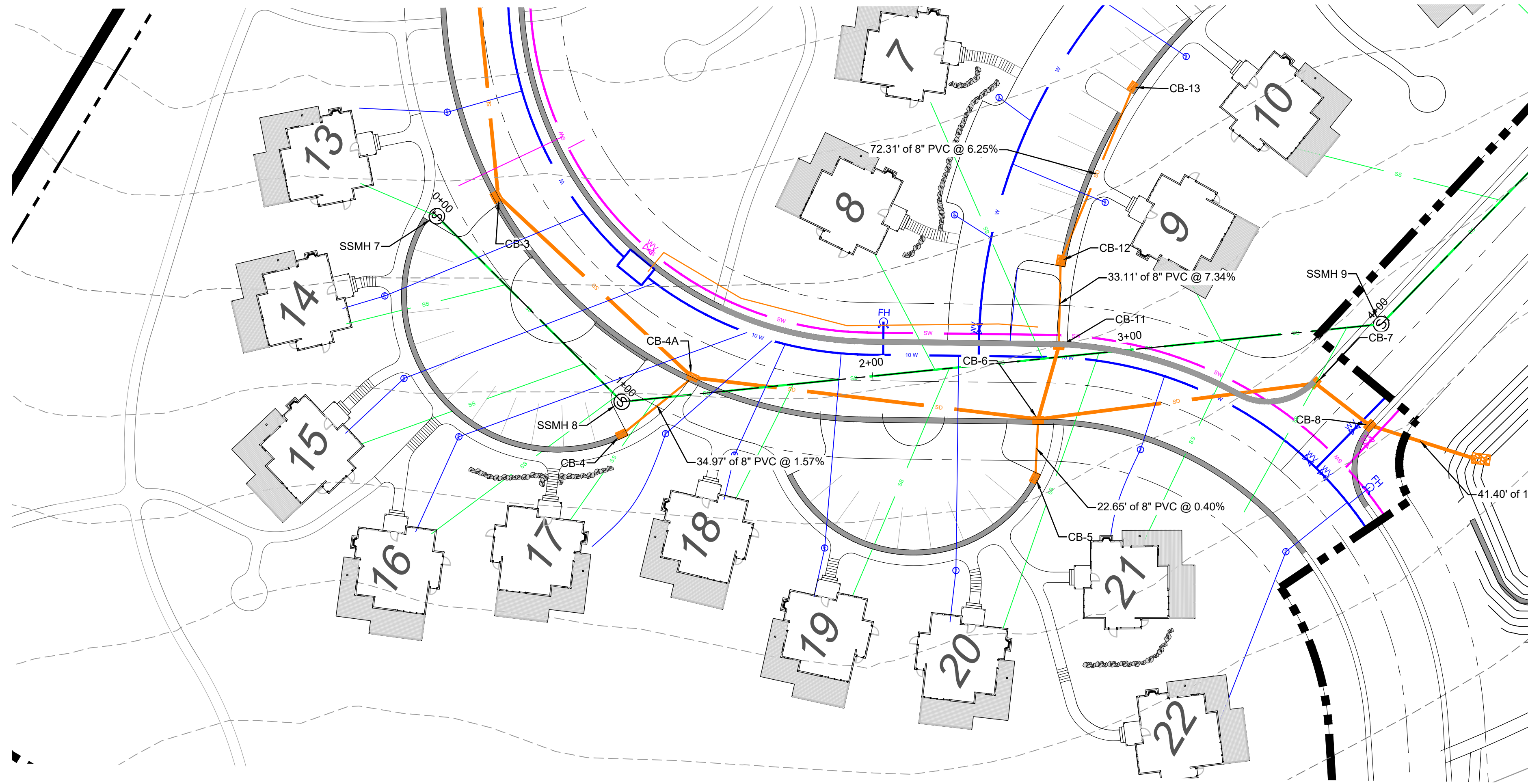
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5150 SOUTH 375 EAST OGDEN, UT  
OFFICE: 801.476.0202 FAX: 801.476.0066

PRELIMINARY PP5

SCALE: 1" = 30'  
DATE: 11-25-2020  
DESIGN: KAN  
DRAWN: KAN  
CHECKED: RC

DWG:

R:\1201 - LEWIS HOMES\THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS\DESIGN\DWG\GROVE\CABINS AND MOUNTAINSIDE\_REVISED\_5-9-16.DWG

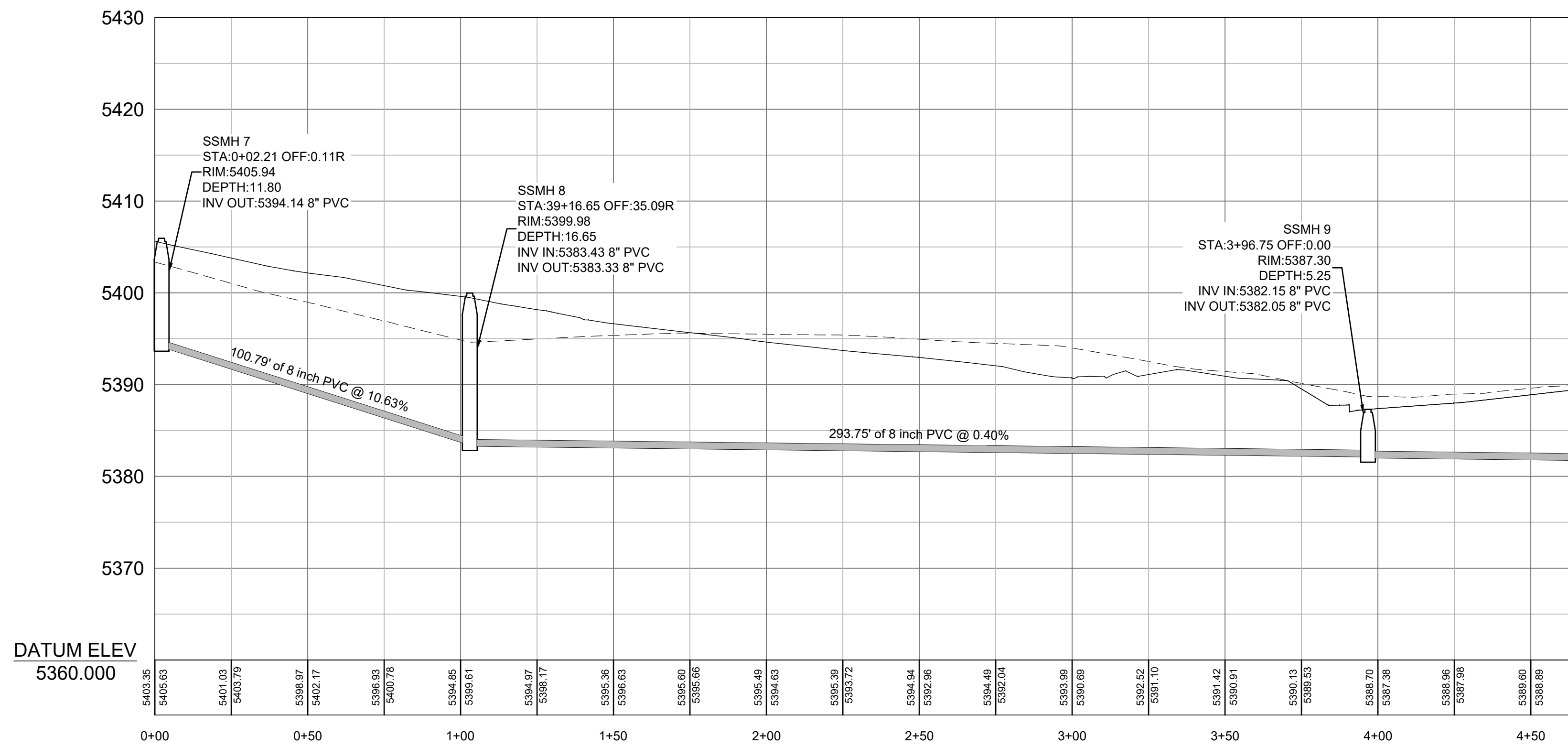


SEE SHEET PP7



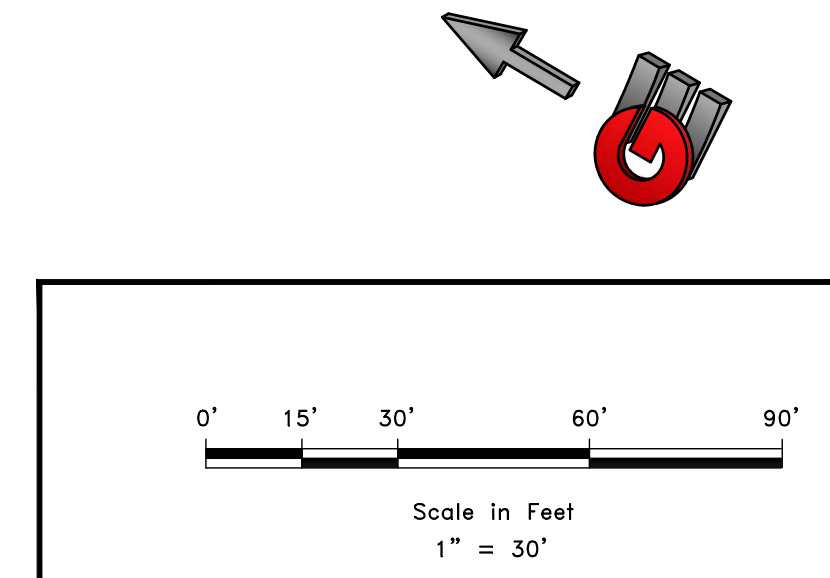
VICINITY MAP

**NOTE:**  
ALL BACK LOT SEWER MANHOLES TO BE SET 6" ABOVE FINISHED GROUND.

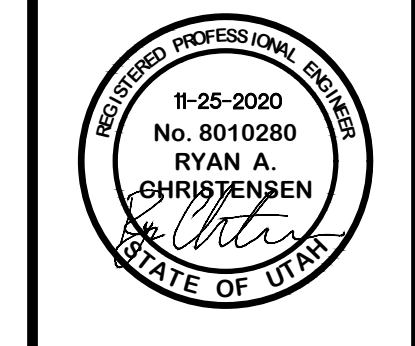


- LEGEND**
- W WATER (BLUE) DUCTILE IRON CLASS 52
  - SW SECONDARY WATER (PURPLE) PVC C900
  - SS SANITARY SEWER (GREEN) PVC SDR-35
  - SD STORM DRAIN (ORANGE) RCP & PVC

**DEVELOPER:**  
DEVELOPER COMPANY  
DEVELOPER ADDRESS  
DEVELOPER CITY  
DEVELOPER TELEPHONE



REVISIONS	DATE	DESCRIPTION



**PLAN AND PROFILE SEWER**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
**EDEN, WEBER, UTAH**



PRELIMINARY **PP6**

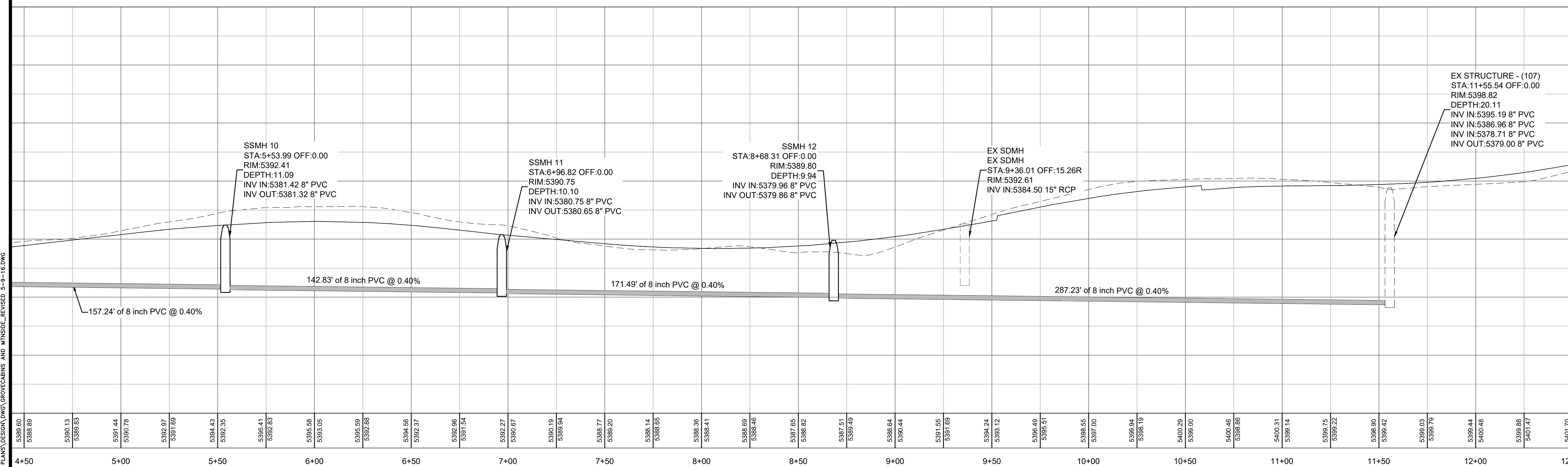
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A:\1201 - LEWIS HOMES\THE BRIDGES\PHASE 2 - MOUNTAINSIDE - CABINS PLANS\DESIGN\DWG\PROFCABINS AND BRIDGES\_REVISED\_5-9-16.DWG



VICINITY MAP

- LEGEND**
- WATER (BLUE) DUCTILE IRON CLASS 52
  - SECONDARY WATER (PURPLE) PVC C900
  - SANITARY SEWER (GREEN) PVC SDR-35
  - STORM DRAIN (ORANGE) RCP & PVC



**NOTE:**  
ALL BACK LOT SEWER MANHOLES TO BE SET 6" ABOVE FINISHED GROUND.

REVISIONS	DESCRIPTION
DATE	

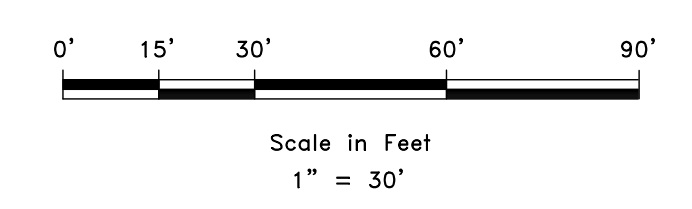
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PLAN AND PROFILE SEWER  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

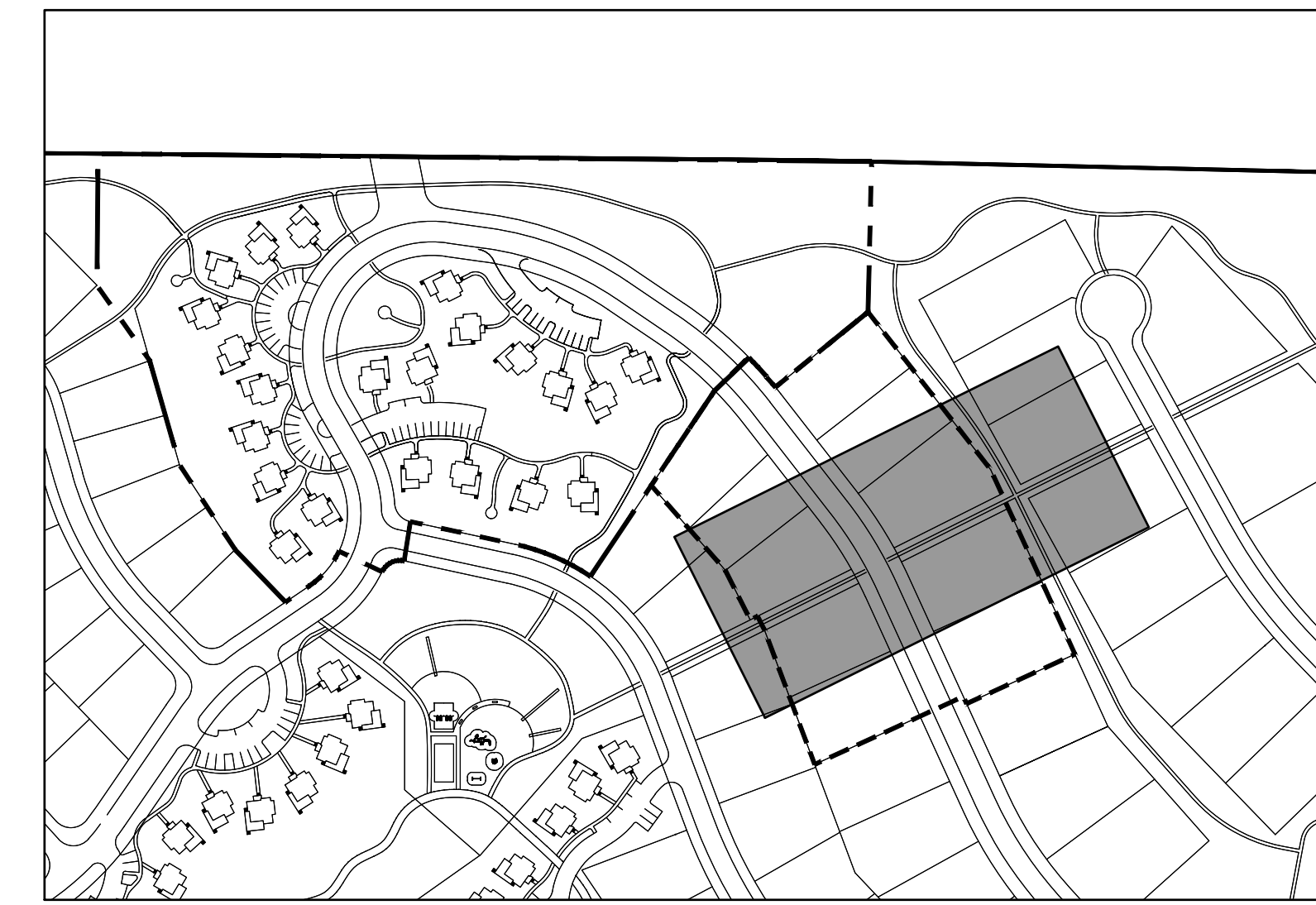
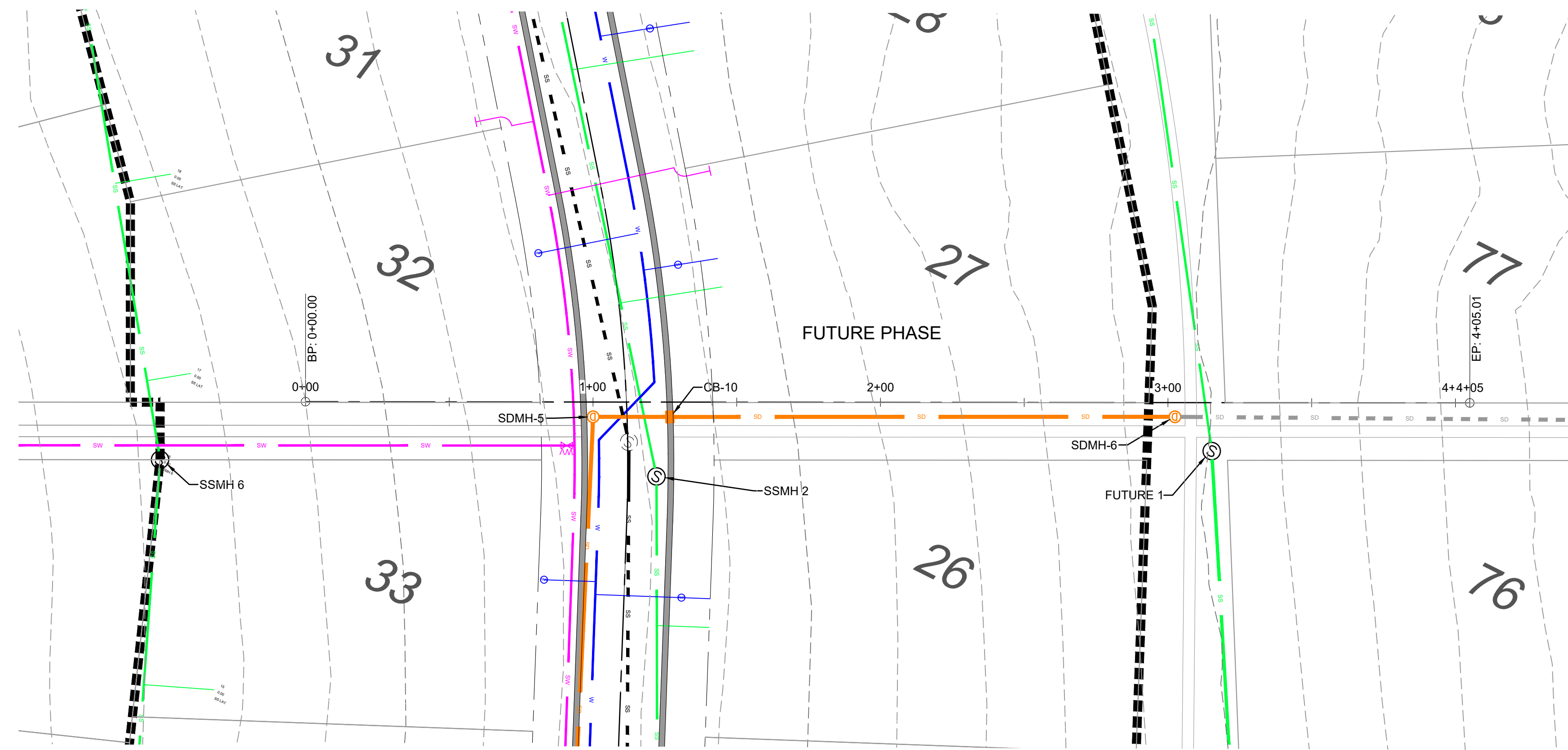
**GARDNER ENGINEERING**  
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 5150 SOUTH 375 EAST OGDEN, UT  
 OFFICE: 801.476.0202 FAX: 801.476.0066

DEVELOPER:  
 DEVELOPER COMPANY  
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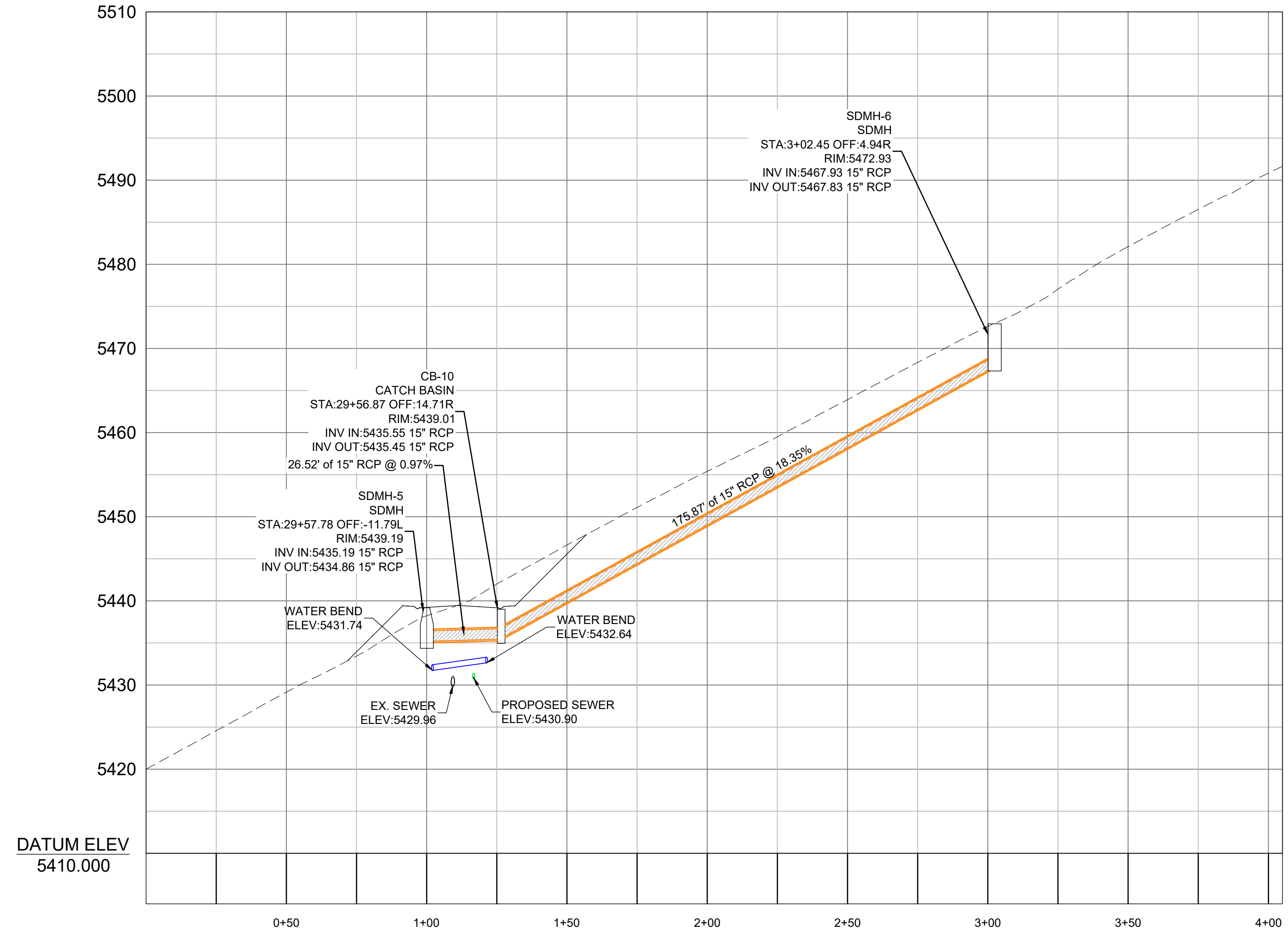
PRELIMINARY  
 PP7



R:\1201 - LEWIS HOMES\THE BRIDGES\PHASE 2 - MOUNTAINSIDE - CABINS PLANS\DESIGN\DWG\GROVE\CABINS AND MOUNTAINSIDE PH2 - 8.DWG

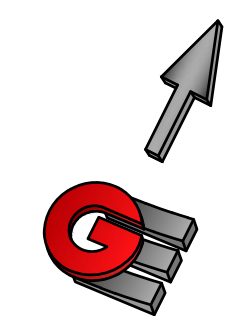


VICINITY MAP

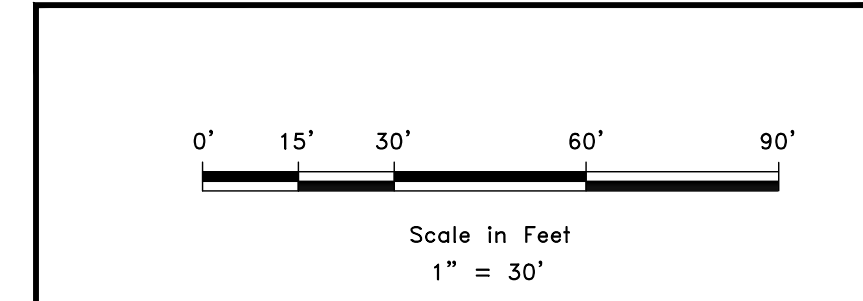


**LEGEND**

	WATER (BLUE) DUCTILE IRON CLASS 52
	SECONDARY WATER (PURPLE) PVC C900
	SANITARY SEWER (GREEN) PVC SDR-35
	STORM DRAIN (ORANGE) RCP & PVC

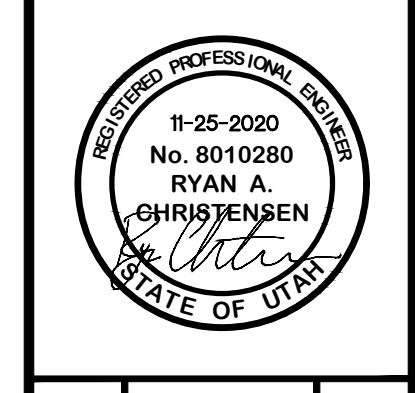


**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE



SCALE: 1" = 30'  
 DATE: 11-25-2020  
 DESIGN: KAN  
 DRAWN: KAN  
 CHECKED: RC

REVISIONS	DESCRIPTION
DATE	



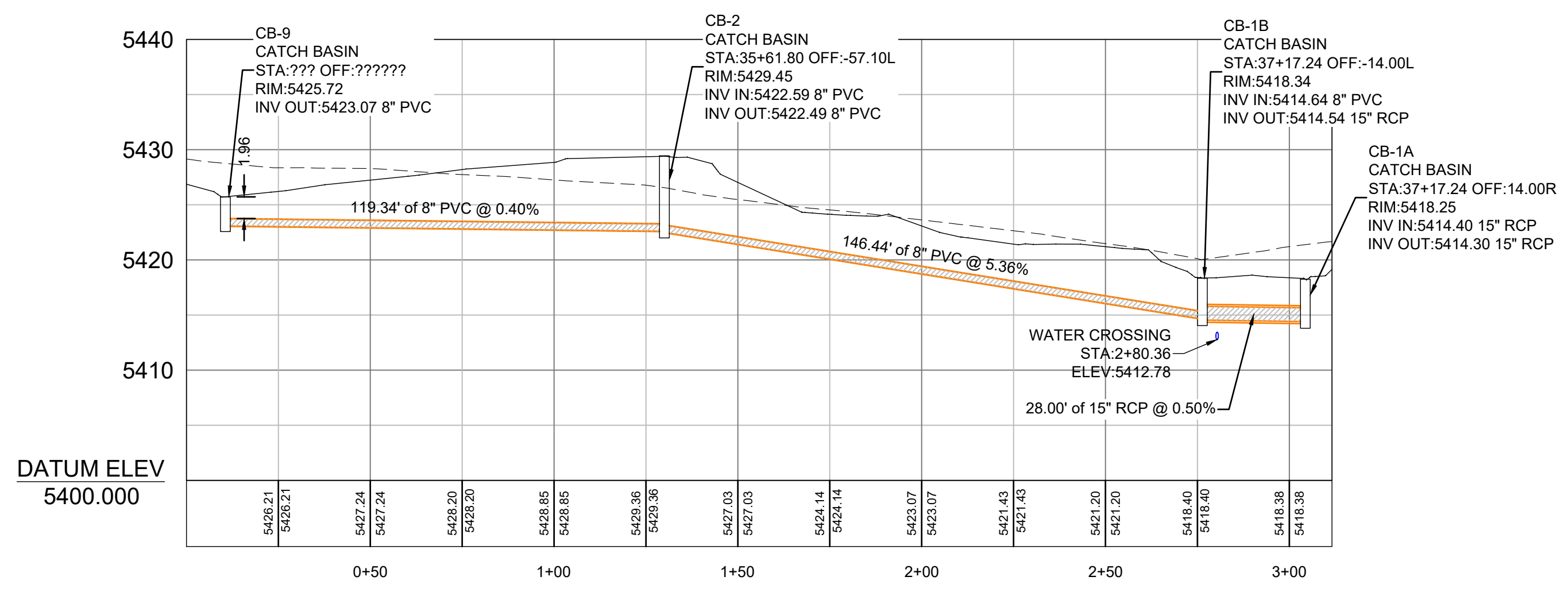
PLAN AND PROFILE STORM DRAIN  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

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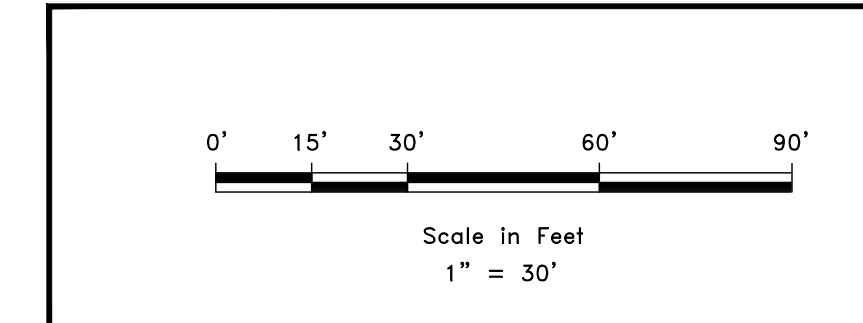
PRELIMINARY  
 PP8



VICINITY MAP



- LEGEND**
- W WATER (BLUE) DUCTILE IRON CLASS 52
  - SW SECONDARY WATER (PURPLE) PVC C900
  - SS SANITARY SEWER (GREEN) PVC SDR-35
  - SD STORM DRAIN (ORANGE) RCP & PVC



**DEVELOPER**  
 DEVELOPER COMPANY  
 DEVELOPER ADDRESS  
 DEVELOPER CITY  
 DEVELOPER TELEPHONE

SCALE: 1" = 30'

DATE	11-25-2020
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

REVISIONS	DATE	DESCRIPTION



**PLAN AND PROFILE STORM DRAIN**  
**THE BRIDGES**  
**GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2**  
 EDEN, WEBER, UTAH

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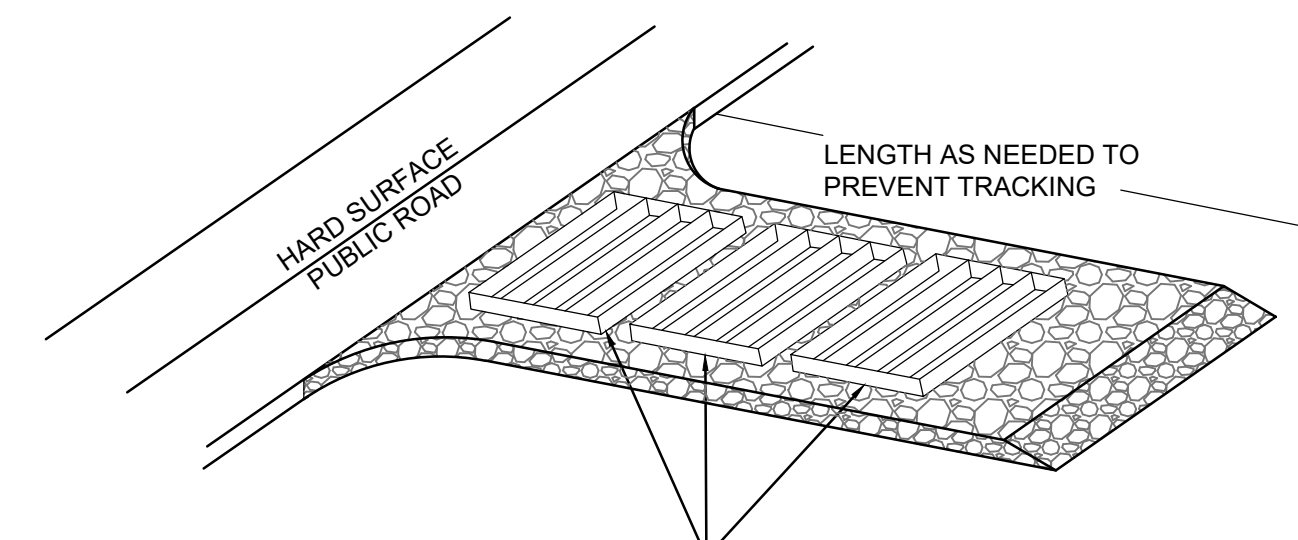
PRELIMINARY

PP9



**EROSION CONTROL NOTES:**

1. SANDBAGS WILL BE PLACED AT DISCHARGE LOCATIONS TO CONTAIN AND DIVERT STORM WATER THROUGH THE INLET PROTECTION.
2. AN EARTHEN BERM 6" HIGH WILL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIVERT IT TO DISCHARGE AREAS.
3. STORM WATER WILL BE DISCHARGED INTO AN EXISTING DRAINAGE SYSTEM. EXISTING LINES SHALL BE INSPECTED PRIOR TO CERTIFICATE OF OCCUPANCY AND CLEANED IF NECESSARY.
4. THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONFORM TO ALL STATE DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.



A SERIES OF STEEL PLATES (3 OR MORE) WITH RUMBLE STRIPS OR MIN. 3" COARSE AGGREGATE.

**ENTRANCE STABILIZATION NOTES:**

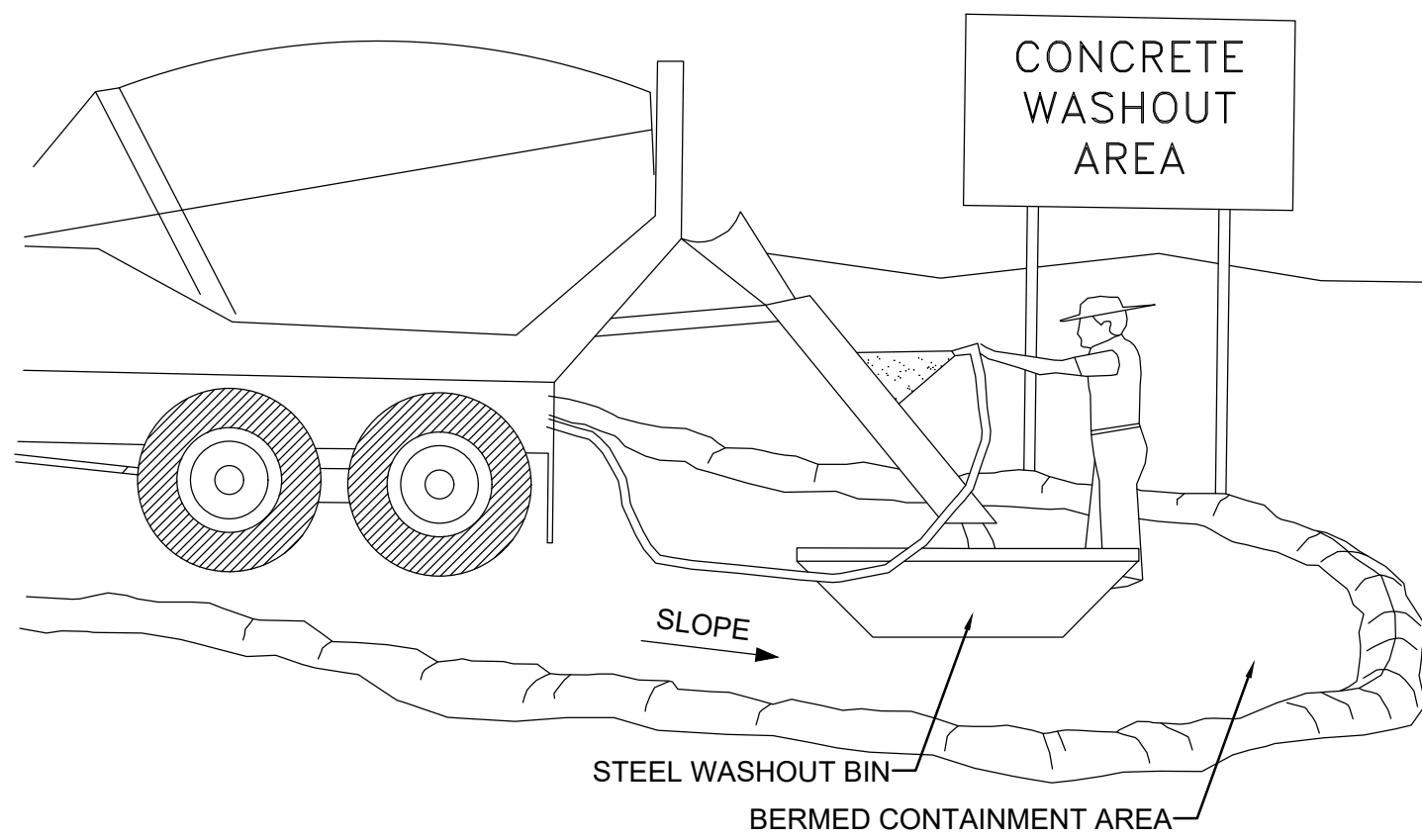
1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE STORM DRAIN SYSTEMS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
  - a. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY AND SIDEWALK OR PARKING AREA.
  - b. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN. 3" COARSE AGGREGATE WITH LENGTH, WIDTH AND THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

**STREET MAINTENANCE NOTES:**

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

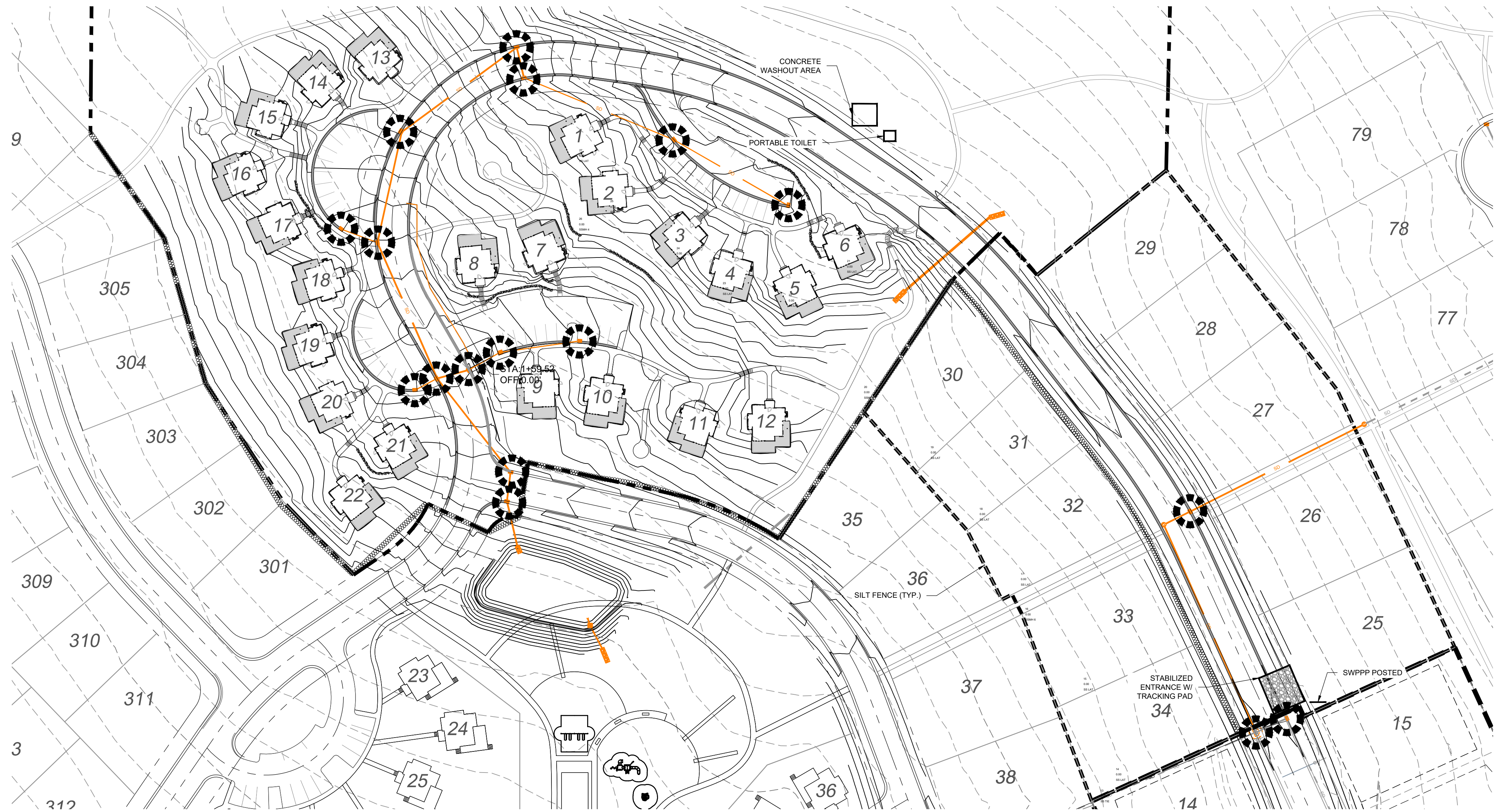
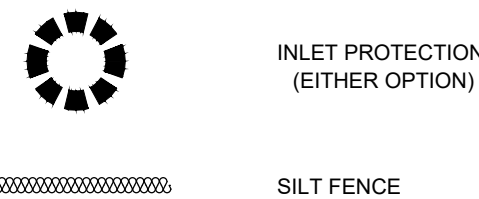
**NOTE:**

CONTRACTOR SHALL COMPLETE AND SUBMIT A STATE NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN BOOKLET



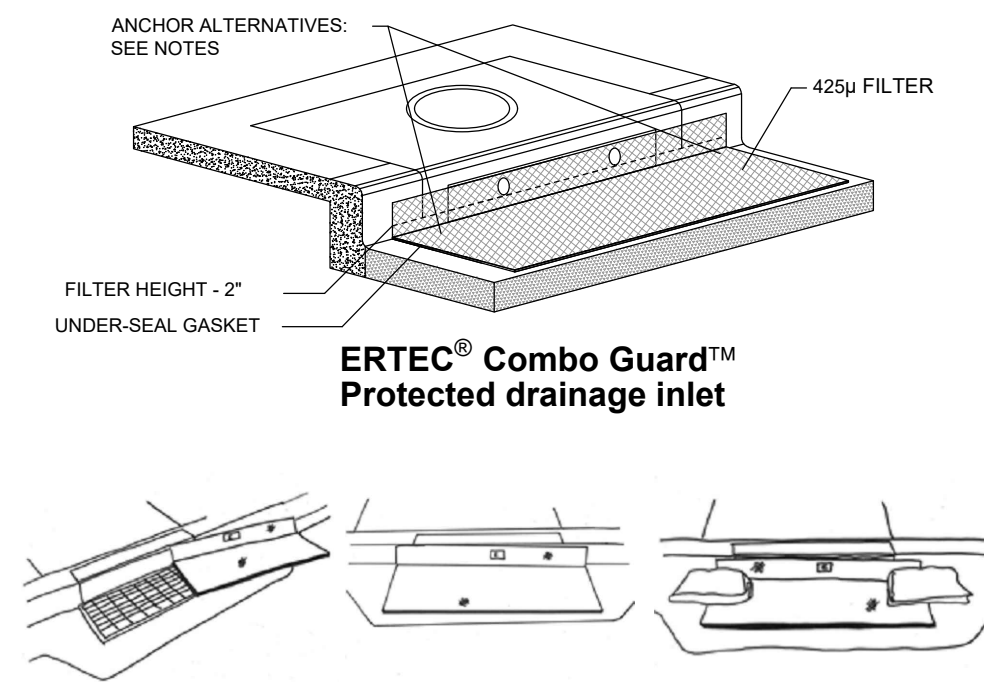
**NOTES:**

1. EXCESS AND WASTE CONCRETE SHALL BE DISPOSED OF OFF SITE OR AT DESIGNATED AREAS ONLY.
2. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
3. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS ONSITE, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED.
4. ONSITE CONCRETE WASHOUT CONTAINMENT FACILITY SHALL BE A STEEL BIN OR APPROVED ALTERNATE.
5. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.



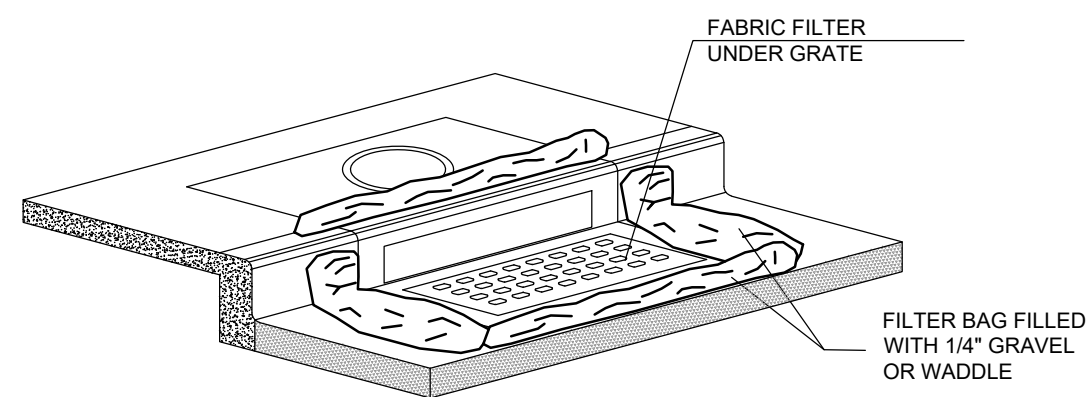
**INSTALLATION NOTES:**

1. PLACEMENT: PLACE CG TIGHTLY AGAINST CURB OPENING AND COVER ENTIRE GRATE. CG SHOULD EXTEND AT LEAST 2 INCHES PAST GRATE TOWARDS STREET.
2. OVERLAP FOR LONG OPENINGS: OVERLAP CG UNITS AT LONGER OPENINGS.
3. ANCHOR: ANCHOR CG SO THAT WATER CANNOT FLOW BEHIND IT.
4. ALTERNATE ANCHOR METHODS: A) INSTALL GRAVEL BAGS AT EACH SIDE OF CG - HALF-ON AND HALF-OFF THE EDGES. USE HALF-FILLED GRAVEL BAGS (15 OR 20 LBS). ROUND ROCK IS RECOMMENDED. OR B) ATTACH WITH 16 GAUGE TIE-WIRE. CUT WIRE TO 18" LENGTH. AT EACH CORNER OF CG, FEED ONE END OF WIRE DOWN THROUGH CG, AROUND GRATE BAR, AND BACK UP THRU CG. ABOVE GROUND, TWIST WIRES SEVERAL TIMES. CUT-OFF EXCESS. OR C) FASTEN WITH CONCRETE ANCHORS/NAILS AT THE OUTSIDE EDGES OF CG.



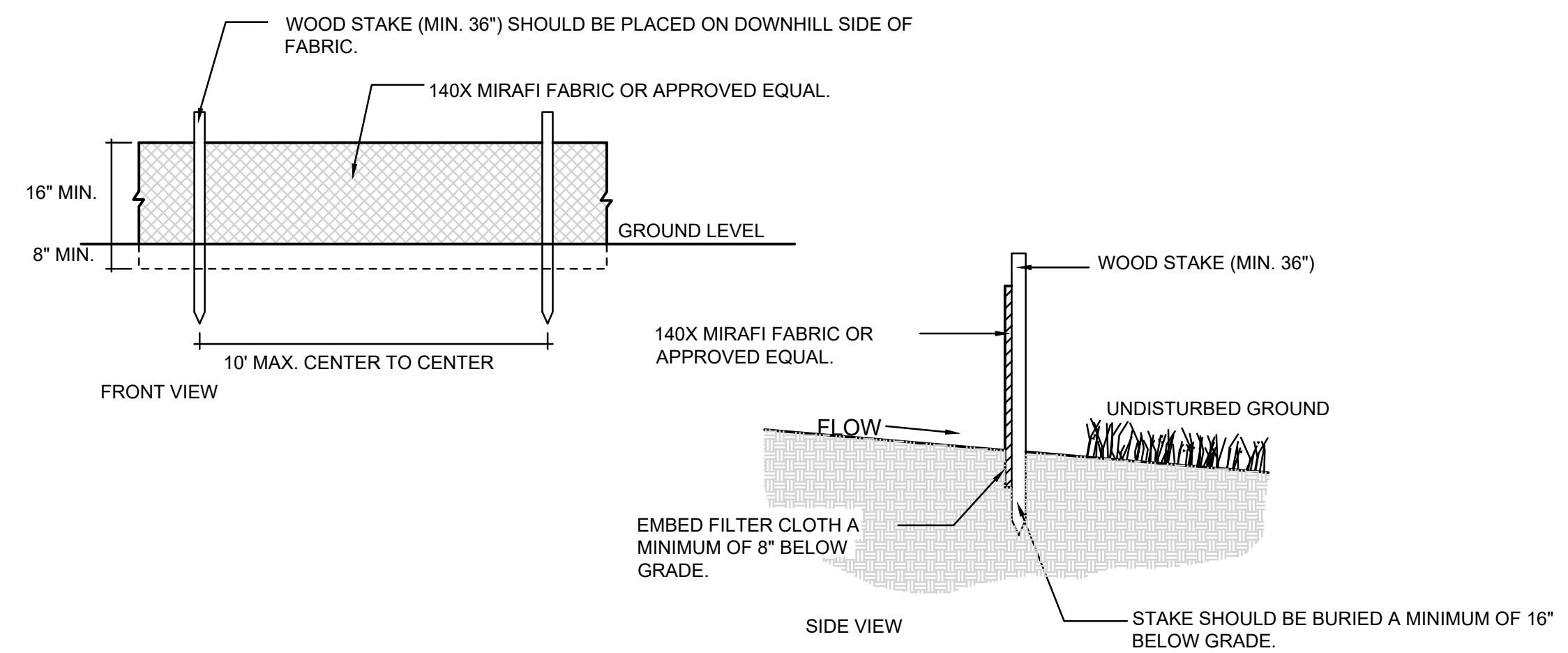
1A INLET PROTECTION - OPTION 1

Scale: NTS



1B INLET PROTECTION - OPTION 2

Scale: NTS

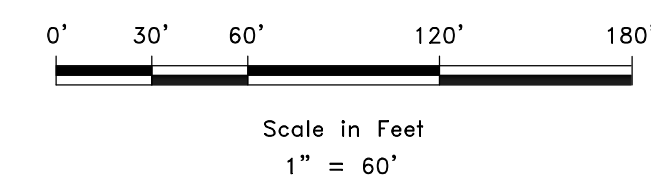


2 SILT FENCE

Scale: NTS

**DEVELOPER:**

DEVELOPER COMPANY  
DEVELOPER ADDRESS  
DEVELOPER CITY  
DEVELOPER TELEPHONE



REVISIONS	DESCRIPTION
DATE	

SCALE: 1" = 60'  
DATE: 11-25-2020  
DESIGN: KAN  
DRAWN: KAN  
CHECKED: RC

11-25-2020  
No. 8010280  
RYAN A. CHRISTENSEN  
STATE OF UTAH

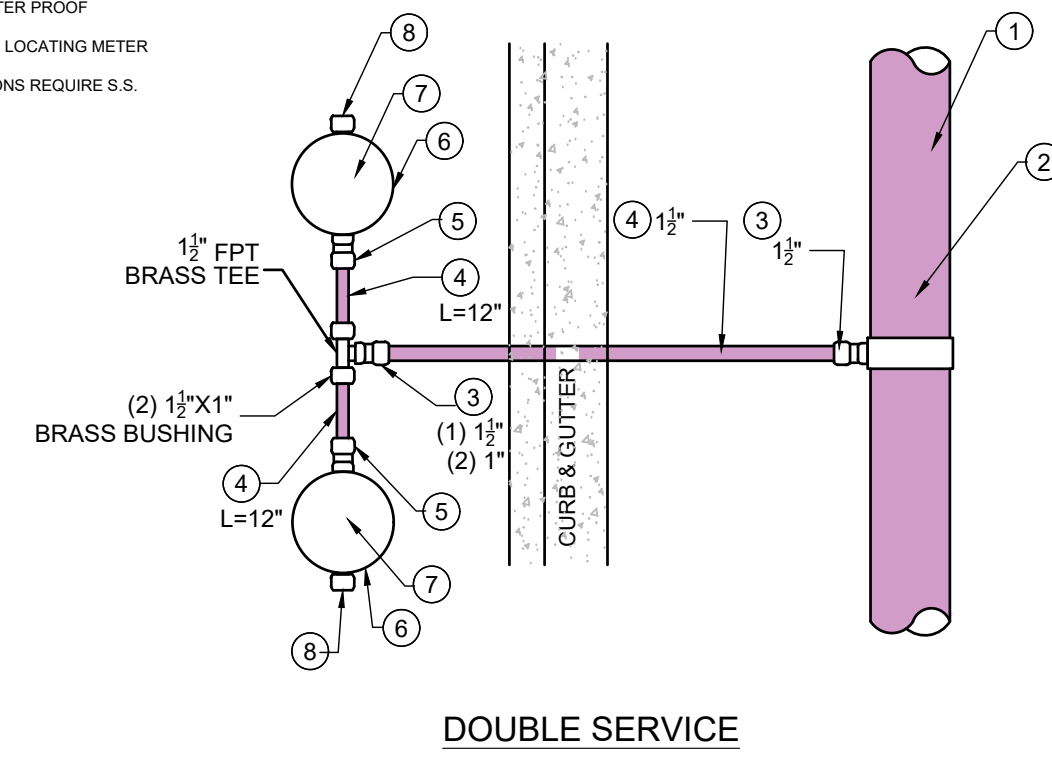
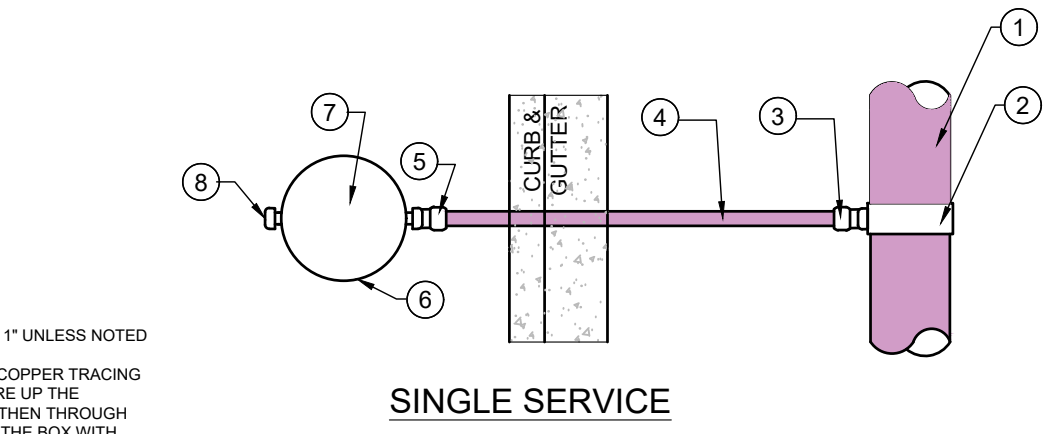
SWPPP  
THE BRIDGES  
GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
EDEN, WEBER, UTAH

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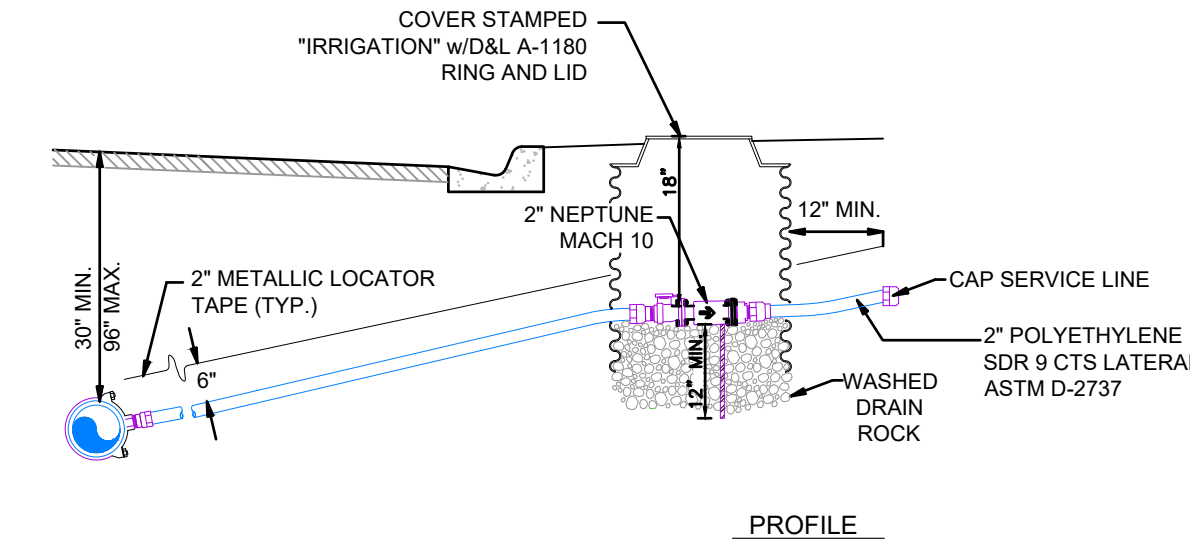
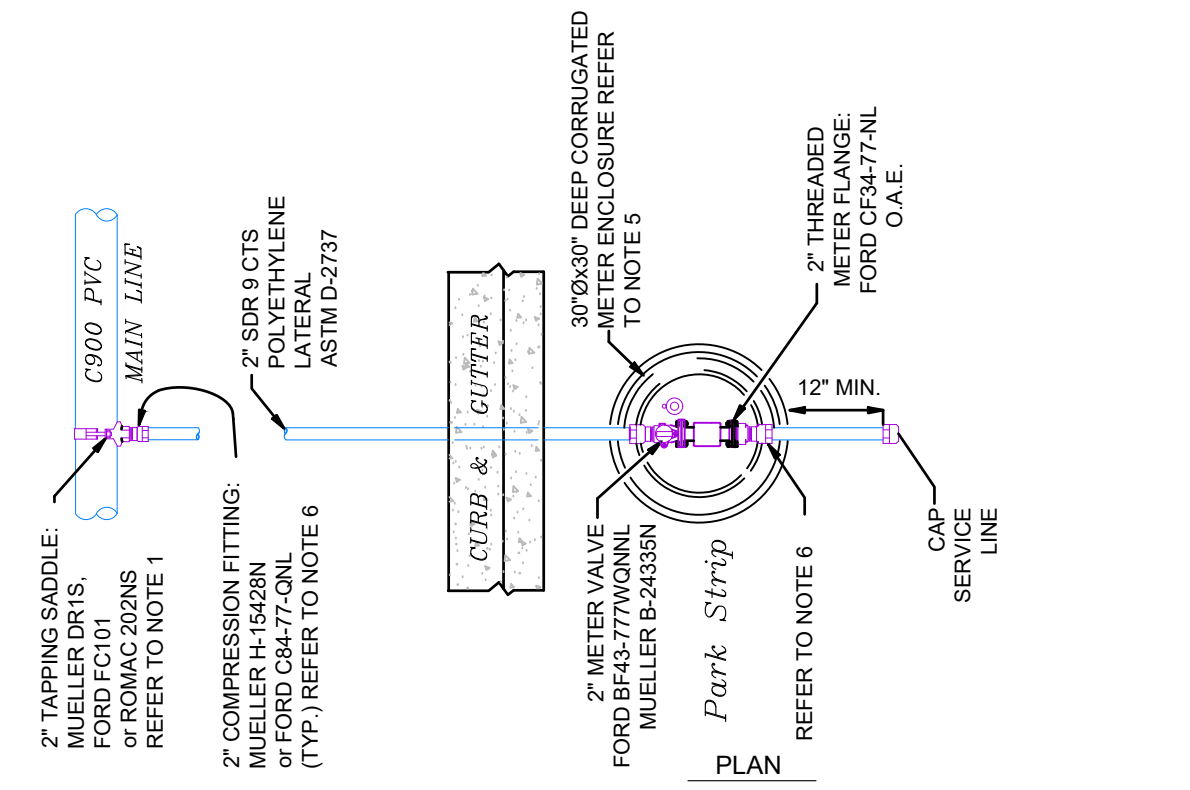
PRELIMINARY  
SW1

- NOTES:**
1. ALL SERVICE LINE AND FITTINGS ARE 1" UNLESS NOTED OTHERWISE.
  2. INSTALL PLASTIC COATED #14 SOLID COPPER TRACING WIRE ON ALL MAINLINE PIPE. RUN WIRE UP THE OUTSIDE OF BOTTOM OF VALVE BOX THEN THROUGH THE INSIDE OF THE TOP PORTION OF THE BOX WITH TWO FEET OF WIRE EXTENDING ABOVE FINISHED GRADE. ALL SPLICES MADE WITH WATER PROOF CONNECTIONS.
  3. OBTAIN DISTRICT APPROVAL BEFORE LOCATING METER IN ROADWAY.
  4. ALL COMPRESSION-TYPE CONNECTIONS REQUIRE S.S. INSERT STIFFENERS.



1. MAIN LINE (PURPLE IN COLOR) 4-12" C-900 DR-18 - ANYTHING ABOVE 12" TO BE APPROVED BY SSWID IN WRITING.
2. SERVICE SADDLE MUELLER DR25 OR FORD FC202. HOT TAPPING WITHOUT A SADDLE IS NOT ALLOWED.
3. COMPRESSION FITTING - MUELLER H-15428 OR FORD C8444GNL.
4. SDR 9 CTS POLY (PURPLE IN COLOR) NOTE SLOPE MIN 2% FROM SERVICE BACK TO MAIN. INSTALL 2" WIDE METALLIC WARNING TAPE @ ABOVE SERVICE LINE BETWEEN MAIN AND METER.
5. COMPRESSION FITTING MUELLER H 15451 N OR FORD C1444 QNL.
6. METER BOX ASSEMBLY FORD PK 488-18-95059-015 OR MUELLER 331051818FAA50507N SEE DETAILS AT LEFT. PURPLE POLYMER COVER STAMPED "IRRIGATION".
7. WATER METER: NEPTUNE MACH 10 ULTRASONIC FURNISHED AND INSTALLED BY WCWSID PAID BY CUSTOMER.
8. 1" BRASS CAP.
9. 14"x19"x12" PURPLE CARSON OR EQUIV. CONTROL VALVE BOX AND LID. PURPLE LID COVER STAMPED "IRRIGATION".
10. 2"x2"x12" VALVE BOX MARKERS MUST BE SET ADJACENT TO EVERY VALVE & METER.

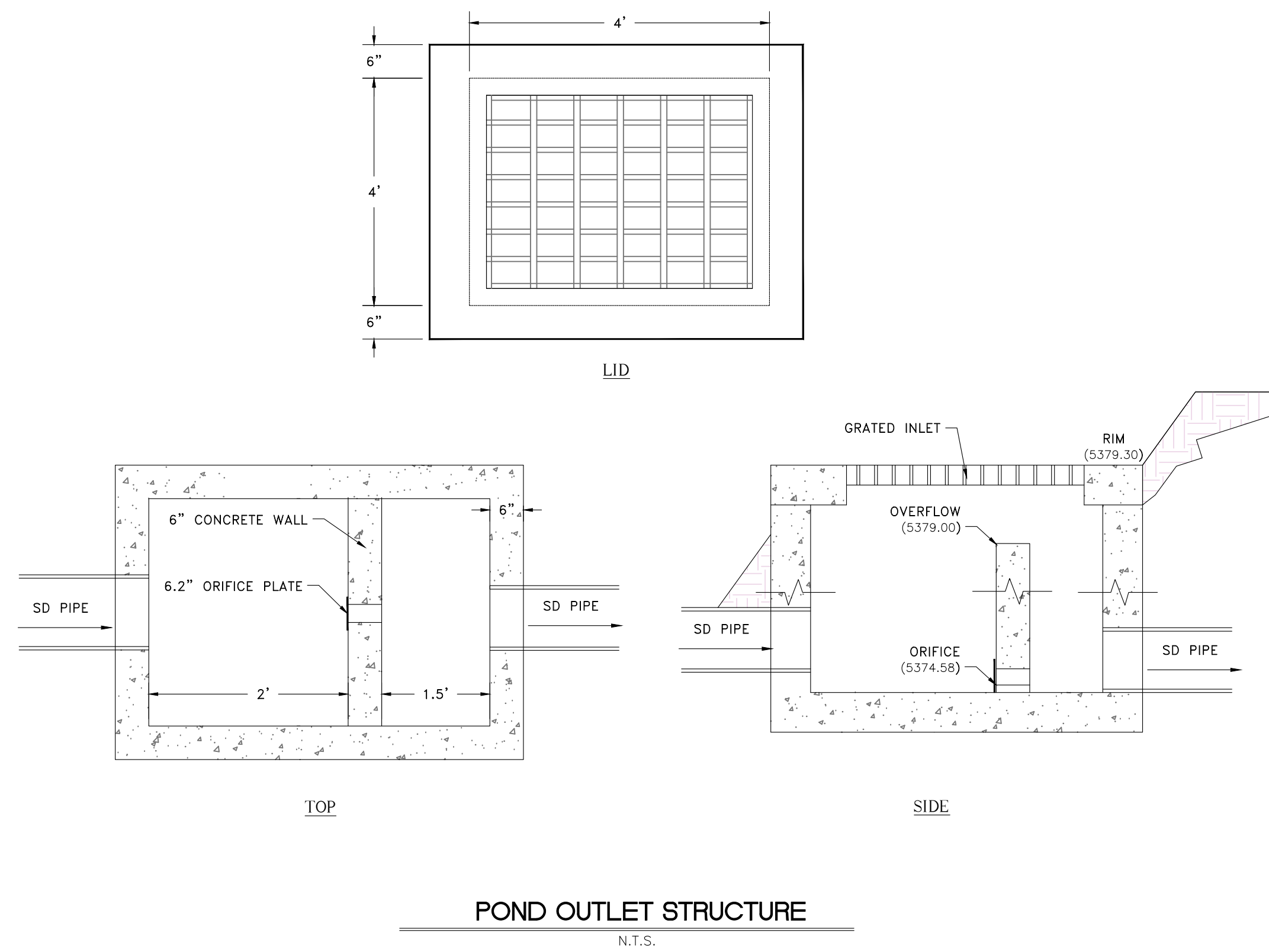
## SERVICE CONNECTION



## 2" SECONDARY WATER SERVICE CONNECTION W/ METER

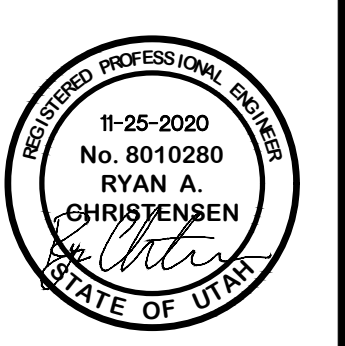
- NOTES:**
1. CONSULT DISTRICT ENGINEER FOR MAINLINE PIPE SIZES GREATER THAN 12" OR FOR MAINLINE PIPE MATERIAL OTHER THAN C900 PVC. HOT TAPPING WITHOUT A SADDLE NOT ALLOWED.
  2. METER & ENCLOSURE SHALL BE LOCATED BEHIND CURB WITHIN STREET R.O.W. OR PUBLIC UTILITY EASEMENT IF NO CURB OR GUTTER EXISTS. IF METER ENCLOSURE IS WITHIN THE SHOULDER OF A ROAD IT MUST BE TRAFFIC RATED. OBTAIN DISTRICT APPROVAL BEFORE LOCATING METER IN ROADWAY.
  3. VALVE & METER ENCLOSURE LIDS SHALL BE STAMPED "IRRIGATION".
  4. INSURE VALVE CONTROL NUT CAN BE SERVICED BY WRENCH WHEN POSITIONING UNDER ENCLOSURE LID.
  5. ALL COMPRESSION-TYPE CONNECTIONS REQUIRE S.S. INSERT STIFFENERS.

## SECONDARY METER DETAIL



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DATE	11-25-2020
DESIGN	KAN
DRAWN	KAN
CHECKED	RC

REVISIONS	DESCRIPTION
DATE	

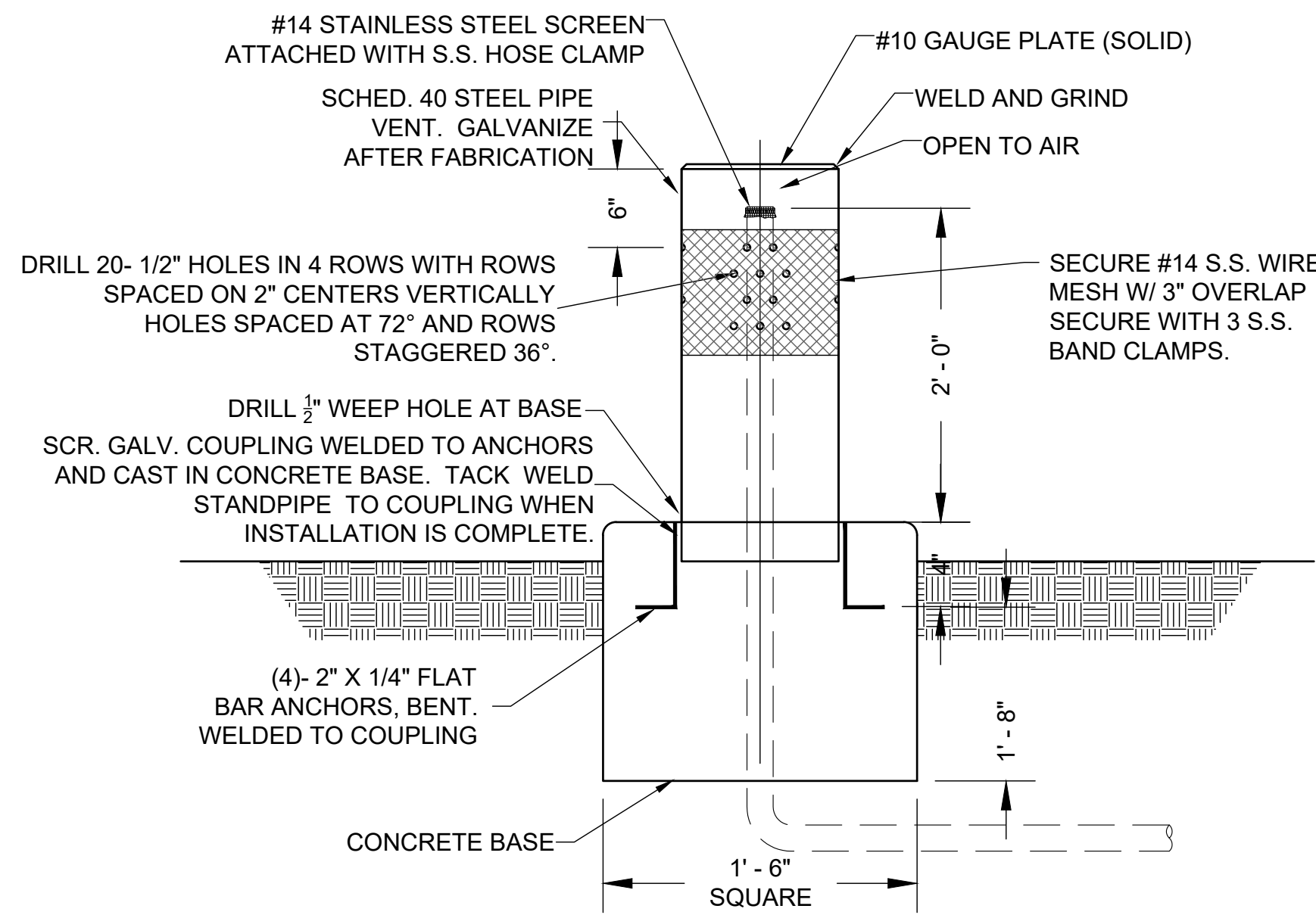


DETAILS  
 THE BRIDGES  
 GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
 EDEN, WEBER, UTAH

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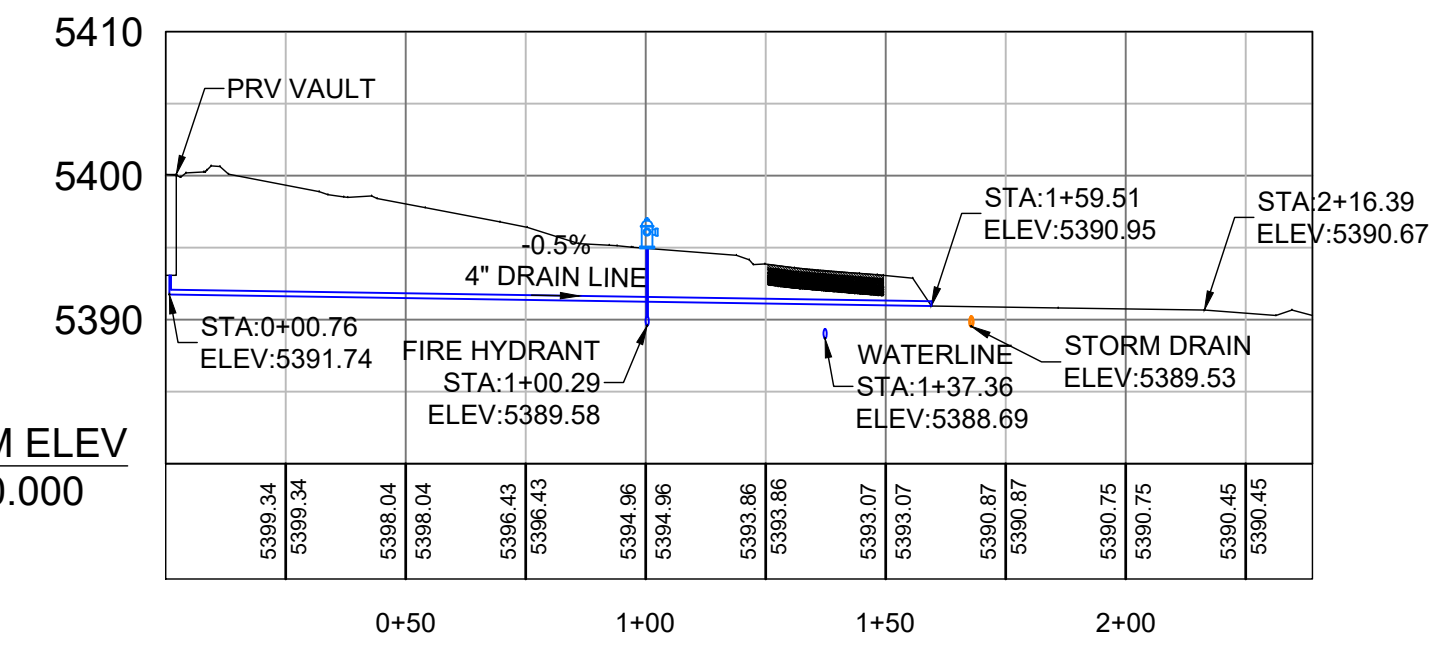
PRELIMINARY

DT1

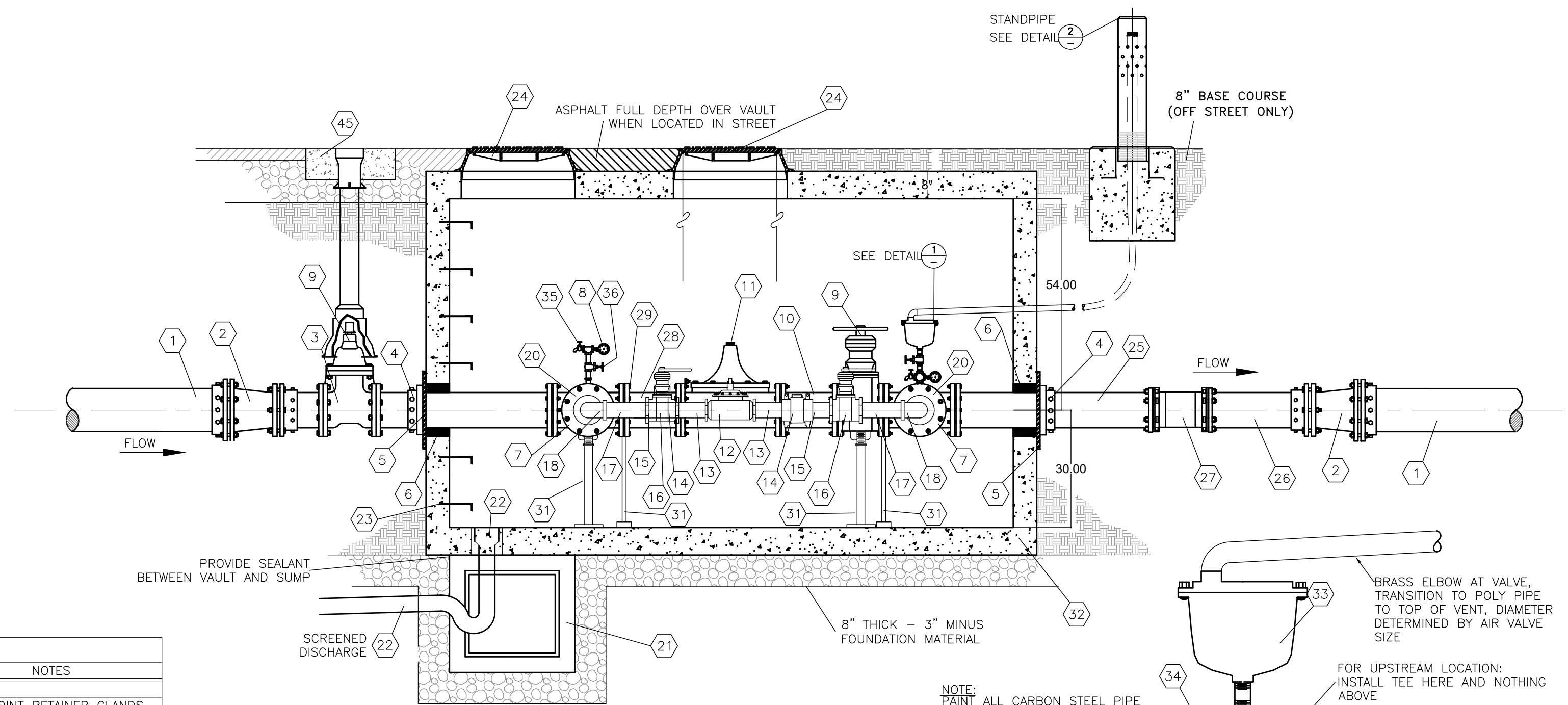


STANDPIPE DETAIL  
NTS

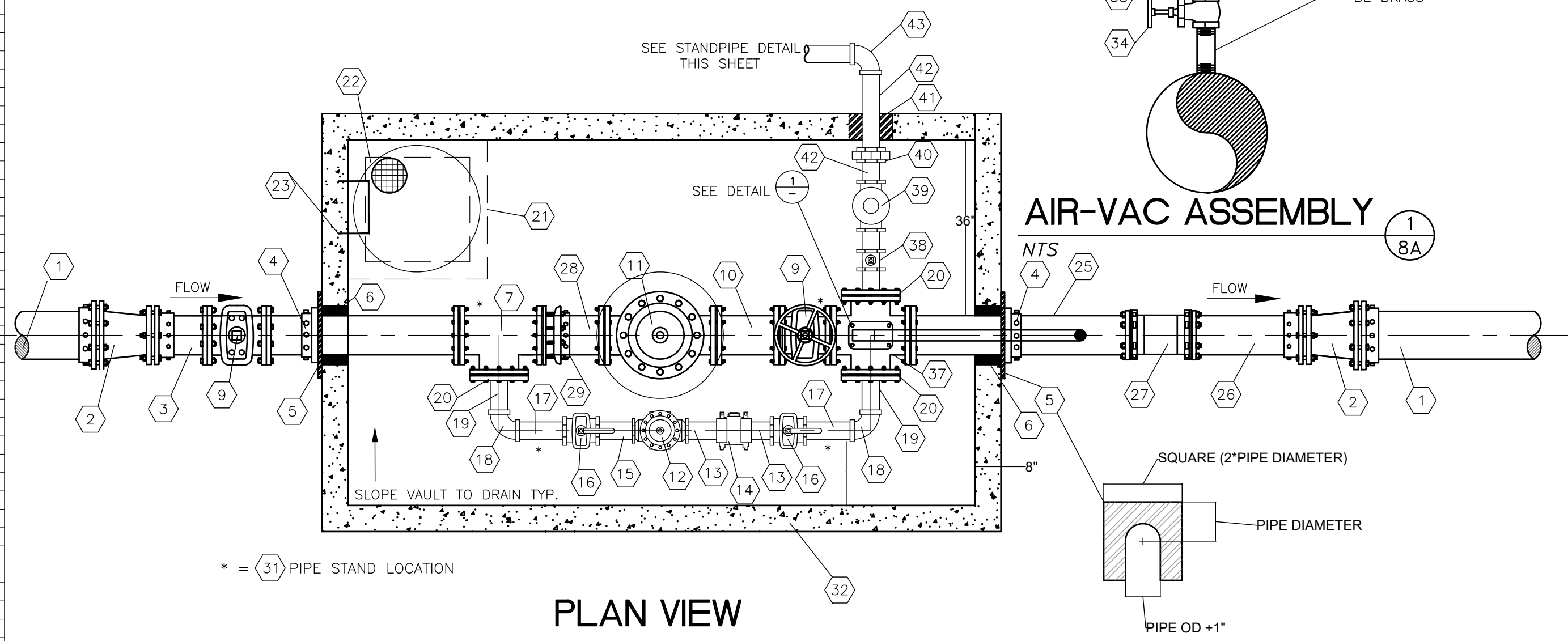
NOTES:  
1. LOCATE STANDPIPE WELL OUTSIDE TRAVELED ROADWAY OR AS DIRECTED BY THE ENGINEER. INSTALL 4" STEEL PIPE FOR A 1" AIR VAC/AIR RELEASE VALVE AND 6" STEEL PIPE FOR A 2" VALVE.



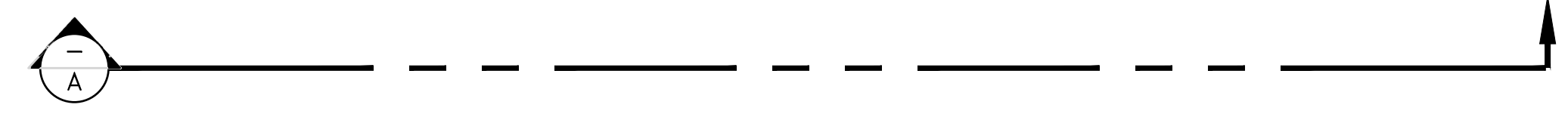
PROFILE OF 4" DRAIN PIPE



SECTION  
NTS



PLAN VIEW



PRV DETAIL

BILL OF MATERIALS						
NO.	QTY	DESCRIPTION	6" LINE	8" LINE	10" LINE	NOTES
1	2	DIP OR PVC MxKPE	6"	8"	10"	
2	2	REDUCER MxMxM	6"x4"	8"x6"	10"x8"	USE JOINT RETAINER GLANDS
3	1	DIP SPOOL 5'-0" LENGTH FLGXPE	4"	6"	8"	
4	2	FIELD FLANGE FOR DIP	4"	6"	8"	
5	2	1/4" THICK STEEL THRUST PLATE	10"x10" 5/8"	15"x15" 7/8"	18"x18" 10/8"	SQ. W/ Ø CUT OUT
6	2	PRE-CORED HOLES	10" Ø	12" Ø	14" Ø	SEAL WITH NON-SHRINK GROUT
7	2	TEE FLOW/FLG	4"x4"x4"	6"x6"x6"	8"x8"x8"	
8	2	1/4" (1-200) PSI LIQUID FILLED PRESSURE GAUGE				SUPPLY WITH BRASS STOP COCK
9	2	RESILIENT SEAT GATE VALVE W/ VALVE BOX	4"	6"	8"	
10	1	DIA. X 1'-0" 1/4" DIP FLGXFLG	6"	8"	10"	
11	1	PRESSURE REDUCING VALVE FLGXFLG	4"	6"	8"	CLA-VAL MODEL 90-01 KC,X101
12	1	PRESSURE REDUCING VALVE THDXTHD	2"	3"	3"	CLA-VAL MODEL 90-01 KC,X101
13	2	DIA. X LENGTH GALV. PIPE THDXVIC.	2"Ø	3"Ø	3"Ø	FIELD ADJUST LENGTH
14	2	COUPLING	2"	3"	3"	
15	1	DIA. X LENGTH GALV. PIPE THDXVIC.	2"Ø	3"Ø	3"Ø	FIELD ADJUST LENGTH
16	2	BALL VALVE THDXTHD	2"	3"	3"	
17	2	DIA. X LENGTH GALV. PIPE THDXTHD	2"Ø	3"Ø	3"Ø	FIELD ADJUST LENGTH
18	2	90° GALV. BEND THDXTHD	2"	3"	3"	
19	2	DIA. X 8" GALV. PIPE THDXTHD	2"Ø	3"Ø	3"Ø	
20	2	BLIND FLANGE W/ THREAD TAP	4"x2"	6"x3"	8"x3"	
21	1	2" X 2" CONCRETE CATCH BASIN				PUMP IF NO DRAIN TO DAYLIGHT
22	1	6" FLOOR DRAIN/4" DRAIN PVC PIPE				W/FLOAT SWITCH TO PERMANENT POWER
23	6	STEPS				
24	1	A-1181 D&L MANHOLE RING AND COVER				"WATER", GRADE RING IF NEEDED
25	1	DIA. X LENGTH DIP FLGXPE	4"	6"	8"	
26	1	DIA. X 2'-0" SPOOL PEXPE	4"	6"	8"	
27	1	DIP SLEEVE MxMxM	4"	6"	8"	
28	1	DIA. X 1'-0" DIP FLGXPE	4"	6"	8"	
29	1	RESTRAINED FLANGED COUPLING ADAPTER	4"	6"	8"	
31	4	PIPE STAND				
32	1	6" X 12" X 7" TALL PRECAST CONCRETE VAULT				H2O LOADING
33	1	COMBINATION AIR RELEASE VALVE W/ AIR VENT	1", 143C	1", 143C	2", 145C	APCO MODEL 143C,145C W/ FITTINGS
34	1	SCREWED GATE VALVE	1"	1"	2"	W/ FITTINGS
35	2	1/2" SMOOTH NOSE TAP				W/ FITTINGS
36	1	SCREWED GATE VALVE	3/4"	3/4"	3/4"	W/ FITTINGS
37	1	CROSS	4"	6"	8"	**
38	1	SCREWED GATE VALVE	2"	3"	4"	FNPT
39	1	RELIEF/SUSTAINING VALVE	2"	3"	4"	CLA-VAL 50-1 OR EQ1
40	1	UNION	2"	3"	4"	FNPT
41	1	CORE AND GROUT	5"	6"	8"	**
42	*	GALVANIZED STEEL PIPE (GSP)	2"	3"	4"	HOSE BIBB TAP INSIDE VAULT FOR DRAINAGE
43	*	ELBOW GSP	2"	3"	4"	**
44	1	NO. 4 MESH SCREEN	2"	3"	4"	NON-CORRODIBLE
45	1	CONCRETE COLLAR	12"TH X 12"W			REGARDLESS OF SURFACE IMPROVEMENTS

\* TO BE DETERMINED BY SITE \*\* 8" CROSS MAY USE 8"x4" CROSS W/DIP FITTINGS FOR RELIEF VALVE, VERIFY WITH OWNER AND ENGINEER

SCALE: NTS  
DATE: 11-25-2020  
DESIGN: KAN  
DRAWN: KAN  
CHECKED: RC

REVISIONS	DESCRIPTION
DATE	



DETAILS  
THE BRIDGES  
GROVE CABINS PHASE 1 AND MOUNTAINSIDE PH2  
EDEN, WEBER, UTAH

**GARDNER ENGINEERING**  
CIVIL, LAND PLANNING  
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OFFICE: 801.476.0202 FAX: 801.476.0066

PRELIMINARY  
DT2

R:\1201 - LEWIS HOMES\THE BRIDGES\_PHASE 2 - MOUNTAINSIDE - CABINS PLANS\DESIGN\DWG\GROVE\CABINS AND MOUNTAINSIDE\_REVIEWED\_3-9-16.DWG