GENERAL CONSTRUCTIONS NOTES

- 1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" (ISPWC) AND CITY OF HAILEY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY OF THE ISPWC AND CITY OF HAILEY STANDARDS ON SITE DURING CONSTRUCTION.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR TO COMMENCING AND DURING THE CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM HIS FAILURE TO ACCURATELY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL CALL DIGLINE (1-800-342-1585) TO LOCATE ALI EXISTING UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION.
- CONTRACTOR SHALL COORDINATE RELOCATIONS OF DRY UTILITY FACILITIES (POWER, CABLE, PHONE, TV) WITH THE APPROPRIATE UTILITY FRANCHISE.
- 4. THE CONTRACTOR SHALL CLEAN UP THE SITE AFTER CONSTRUCTION SO THAT IT IS IN A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION (THIS MAY INCLUDE ENCROACHMENT PERMITS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) PERMIT COVERAGE)
- ALL CLEARING & GRUBBING SHALL CONFORM TO ISPWC SECTION 201

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- ALL EXCAVATION & EMBANKMENT SHALL CONFORM TO ISPWC SECTION 202. SUBGRADE SHALL BE EXCAVATED AND SHAPED TO LINE, GRADE, AND CROSS-SECTION SHOWN ON THE PLANS. THE SUBGRADE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-698. THE CONTRACTOR SHALL WATER OR AERATE SUBGRADE AS NECESSARY TO OBTAIN OPTIMUM MOISTURE CONTENT. IN-LIEU OF DENSITY MEASUREMENTS. THE SUBGRADE MAY BE PROOF-ROLLED TO THE APPROVAL OF THE ENGINEEF
- PROOF-ROLLING: THE SUBGRADE WITH A 5-TON SMOOTH DRUM ROLLER, LOADED WATER TRUCK, OR LOADED DUMP TRUCK, AS ENGINEER. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF UNSUITABLE SUBGRADE MATERIAL AREAS, AND/OR AREAS NOT CAPABLE OF COMPACTION ACCORDING TO THESE SPECIFICATIONS. UNSUITABLE OR DAMAGED SUBGRADE IS WHEN THE SOIL MOVES. PUMPS AND/OR DISPLACES UNDER ANY T TRAFFIC LOADS.
- IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR'S OPERATIONS RESULT IN DAMAGE TO, OR PROTECTION OF, THE SUBGRADE THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR THE DAMAGED SUBGRADE BY OVER-EXCAVATION OF UNSUITABLE MATERIAL TO FIRM SUBSOIL, LINE EXCAVATION WITH GEOTEXTILE FABRIC, AND BACKFILL WITH PIT RUN GRAVEL
- 8. ALL 2" MINUS GRAVEL SHALL CONFORM TO ISPWC 802, TYPE II (ITD STANDARD 703.04, 2"), SHALL BE PLACED IN CONFORMANCE WITH ISPWC SECTION 801 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 90% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99.
- 9. ALL 3/4" MINUS CRUSHED GRAVEL SHALL CONFORM TO ISPWC 802, TYPE I (ITD STANDARD 703.04, 3/4" B), SHALL BE PLACED IN CONFORMANCE WITH ISPWC SECTION 802 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 95% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99 OR ITD T-91.
- 10. ALL ASPHALTIC CONCRETE PAVEMENT WORK SHALL CONFORM TO ISPWC SECTION(S) 805, 810, AND 811 FOR CLASS II PAVEMENT. ASPHALT AGGREGATE SHALL BE 1/2" (13MM) NOMINAL SIZE CONFORMING TO TABLE 803B IN ISPWC SECTION 803. ASPHALT BINDER SHALL BE PG 58-28 CONFORMING TO TABLE A-1 IN ISPWC SECTION 805.
- 11. ALL EDGES OF EXISTING ASPHALT PAVING SHALL BE SAW CUT 24" TO PROVIDE A CLEAN PAVEMENT EDGE FOR MATCHING. NO WHEEL CUTTING SHALL BE ALLOWED. PRIOR TO REPLACING ASPHALT, THE UNDERLYING SURFACE INCLUDING VERTICAL SAWCUT JOINTS SHALL BE CLEANED OF ALL DEBRIS AND A TACK COAT SHALL BE APPLIED TO ALL CURBS, SAWCUTS, OR OVERLAY SURFACES.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL PER THE CURRENT EDITION OF THE US DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 13. ALL CONCRETE WORK SHALL CONFORM TO ISPWC SECTIONS 701, 703, AND 705 AND CITY OF HAILEY STANDARD DRAWINGS. ALL CONCRETE SHALL BE 4,000 PSI MINIMUM, 28 DAY, AS DEFINED IN ISPWC SECTION 703, TABLE 1 WITH A MINIMUM OF 1.5 LBS/CY FIBER REINFORCEMENT. IMMEDIATELY AFTER PLACEMENT PROTECT CONCRETE BY APPLYING MEMBRANE-FORMING CURING COMPOUND, TYPE 2, CLASS A PER ASTM C 309-94. APPLY CURING COMPOUND PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE MIX DESIGN, CURING AND PROTECTION PLAN (ISPWC 703.3.5), AND POST POUR CURE SEALING COMPOUND TYPE AND APPLICATION PLAN TO CITY OF HAILEY PRIOR TO INSPECTIONS.
- 14. ALL TRENCHING SHALL CONFORM TO ISPWC STANDARD DRAWING SD-301 AND CITY OF HAILEY STANDARD DRAWING 18.14.010.A.1. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- 15. PER IDAHO CODE § 55-1613, THE CONTRACTOR SHALL RETAIN AND PROTECT ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS; ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS THAT ARE LOST OR DISTURBED BY CONSTRUCTION SHALL BE REESTABLISHED AND RE-MONUMENTED, AT THE EXPENSE OF THE AGENCY OR PERSON CAUSING THEIR LOSS OR DISTURBANCE AT THEIR ORIGINAL LOCATION OR BY SETTING OF A WITNESS CORNER OR REFERENCE POINT OR A REPLACEMENT BENCHMARK OR CONTROL POINT, BY OR UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR.
- 16. EXISTING CONDITIONS AND BOUNDARY INFORMATION SHOWN HEREON ARE PER A SURVEY CONDUCTED BY GALENA-BENCHMARK ENGINEERING, RECEIVED ON APRIL 11, 2024.

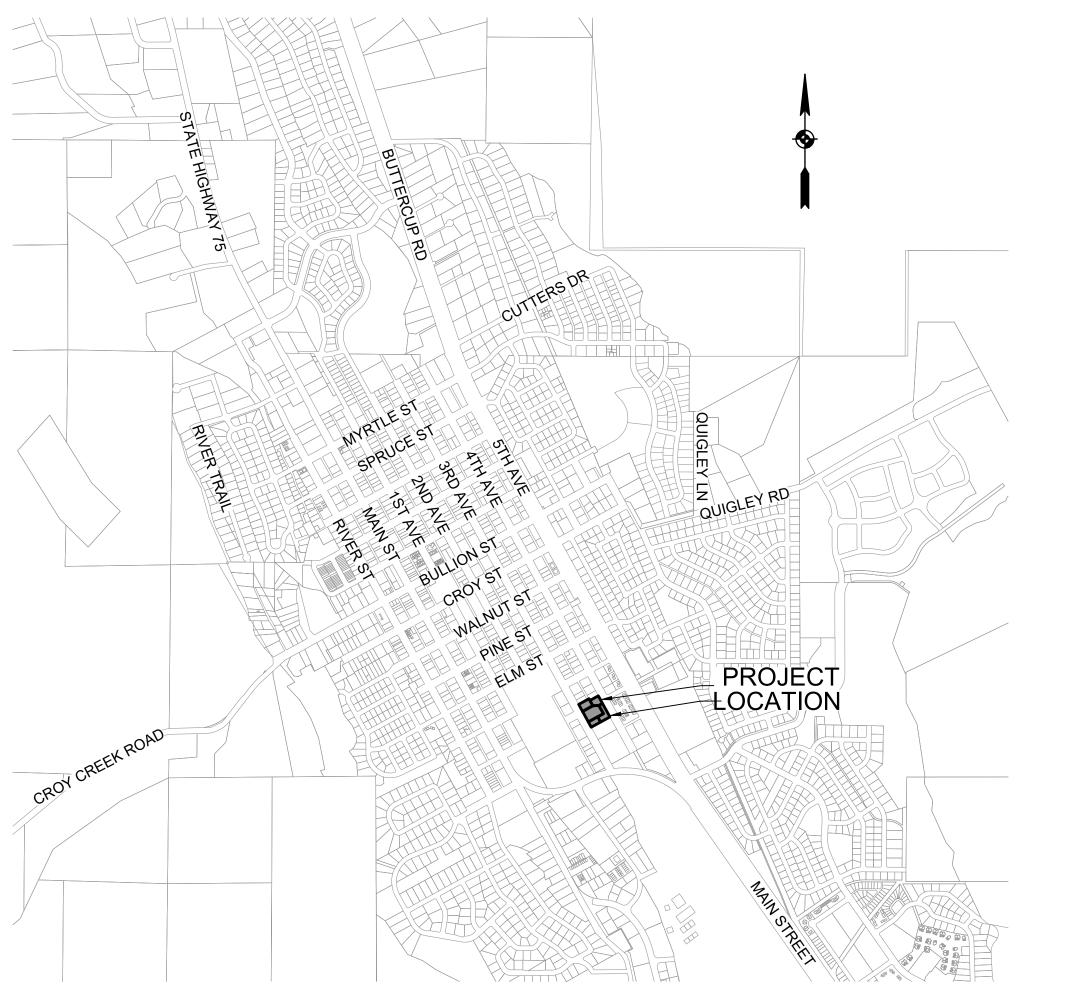
	SLOPE VARIES
	3" OF ASPHALT
SLOPE VARIES	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°
2.5" OF ASPHALT	
o c c c c c c c c c c c c c c c c c c c	6" OF 2" MINUS AGGRÉGATÉ BASE COURSE
6" OF 2" MINUS AGGREGATE BASE COURSE	
<u> </u>	NOTES:
	 SUBBASE CAN BE 2" TYPE II OR ³/₄" TYPE I CRUSHED AGGREGATE BASE COURSE.
NOTES:	2. MATERIALS SHALL CONFORM WITH CURRENT ISPWC
 SUBBASE CAN BE 2" TYPE II OR ³/₄" TYPE I CRUSHED AGGREGATE BASE COURSE. 	STANDARDS, DIVISION 800 AGGREGATES AND ASPHALT
 MATERIALS SHALL CONFORM WITH CURRENT ISPWC STANDARDS, DIVISION 800 AGGREGATES AND ASPHALT. 	 PAVEMENT SECTION MAY BE MODIFIED IF A PROJECT SPECIFIC GEOTECHNICAL REPORT, STAMPED BY A LICENSED ENGINEER, IS PROVIDED.
 PAVEMENT SECTION MAY BE MODIFIED IF A PROJECT SPECIFIC GEOTECHNICAL REPORT, STAMPED BY A LICENSED ENGINEER, IS PROVIDED. 	 CURBED STREET SECTION CONSTRUCTION SHALL CONFORM TO CITY OF HAILEY STANDARD DRAWING 18.14.012.F.1.

N.T.S.

(2) TYPICAL ASPHALT SECTION N.T.S.

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THE INN AT ELLSWORTH ESTATE HAILEY, IDAHO **APRIL 2024**



VICINITY MAP N.T.S.

SI OPE VARIES 5" OF CONCRETE C4" OF 3/4" MINUS AGGREGATE LEVELING COURSE ,6" OF 2" MINUŚ AGGRÉGÁTÉ BAŚE ĆÓUŔSI COMPACTED SUBGRADE

NOTES:

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- 1. INSTALL SCORE JOINTS AT INTERVALS TO MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTION FOR SIDEWALK GREATER THAN 5 FEET IN WIDTH. INSTALL EXPANSION JOINTS EVERY 10 FEET IN LONGITUDINAL DIRECTION.
- 2. 1/2" TRANSVERSE PREFORMED BITUMINOUS JOINTS AT THE TERMINUS POINTS FOR CURVE AND WHERE SIDEWALK IS PLACED BETWEEN TWO PERMANENT FOUNDATIONS OR ADJACENT TO THE STRUCTURE, PLACE ¹/₂" EXPANSION JOINT MATERIAL ALONG THE BACK OF WALK THE FULL LENGTH.
- 3. SIDEWALK CONSTRUCTION JOINTS SHALL BE CONSTRUCTED APPROXIMATELY ¹/₈" WIDE, ³/₄" IN DEPTH AND FINISHED AND EDGED SMOOTH. A PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED EVERY 40' FOR NEW SIDEWALK CONSTRUCTION.
- 4. WHEN TRANSITIONING NEW SIDEWALK TO EXISTING, A MINIMUM 5' TRANSITIONAL PANEL SHALL BE SEPARATED AND ISOLATED WITH EXPANSION MATERIAL.
- 5. SIDEWALK ALIGNMENT TRANSITIONS SHALL HAVE A MINIMUM RADIUS OF 30' TO THE FACE OF CURB.
- 6. MATERIALS SHALL CONFORM WITH CURRENT ISPWC STANDARDS, DIVISION 800 AGGREGATES AND ASPHALT
- 7. CONCRETE THICKNESS PER THIS DETAIL OR MATCH EXISTING, WHICHEVER IS GREATER.

TYPICAL CONCRETE SECTION N.T.S.

2"x2" Perforated Square Tubing -12 Gage (.0105" wall thickness) 3/8"x3" Hex Head Bolt W/ Locknut & 2 Flat Washers Ground Line Flush w/concrete Class "30" Concrete 2 1/2"x2 1/2" Square Tubing 3/16" Wall --Thickness. No Perforations 5.59 Lb./Ft. Weight

SIGN POST INSTALLATION DETAIL WITH ONE PIECE ANCHOR POST FOR USE IN CONCRETE SIDEWALKS

NOTES:

- 1. Anchor sleeves shall be installed so that the holes will align and the top be flush with the sign post anchor.
- 2. All installations shall have 8" square concrete foundations or grouted into solid rock.

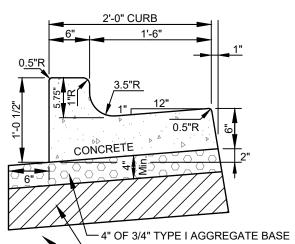


SHEET INDEX

SHEET#	DESCRIPTION
C0.1	COVER SHEET AND DETAIL
C0.2	DETAIL SHEET
C0.3	DETAIL SHEET
C0.4	DETAIL SHEET
C1.0	PHASE 1 DEMOLITION PLAN
C1.2	PHASE 1 CONCEPTUAL SITE AND UTILITY PLAN
C2.0	MASTERPLAN DEMOLITION PLAN
C2.1	MASTERPLAN CONCEPTUAL SITE AND UTILITY PLAN

CIVIL ENGINEER

SAMANTHA STAHLNECKER, PE OPAL ENGINEERING, PLLC 416 S. MAIN STREET SUITE 204 PO BOX 2530 HAILEY, IDAHO 83333



- 6" OF 2" TYPE II SUBBASE - COMPACTED SUBGRADE

- NOTES SUBBASE CAN BE 2" TYPE II OR $rac{3}{4}$ " TYPE I CRUSHED AGGREGATE BASE COURSE.
- 2. MATERIALS SHALL CONFORM WITH CURRENT ISPWC STANDARDS, DIVISION 800 AGGREGATES AND ASPHALT.
- 3. PAVEMENT SECTION MAY BE MODIFIED IF A PROJECT SPECIFIC GEOTECHNICAL REPORT, STAMPED BY A LICENSED ENGINEER, IS PROVIDED.
- 4. 1/2-INCH PREFORMED EXPANSION JOINT MATERIAL (AASHTO M 213) AT TERMINAL POINTS OF RADII.
- 5. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 10-FEET MAXIMUM SPACING (8-FEET
- W/SIDEWALK). 6. CURB AND GUTTER CONSTRUCTION SHALL CONFORM TO ISPWC DRAWING SD-701.

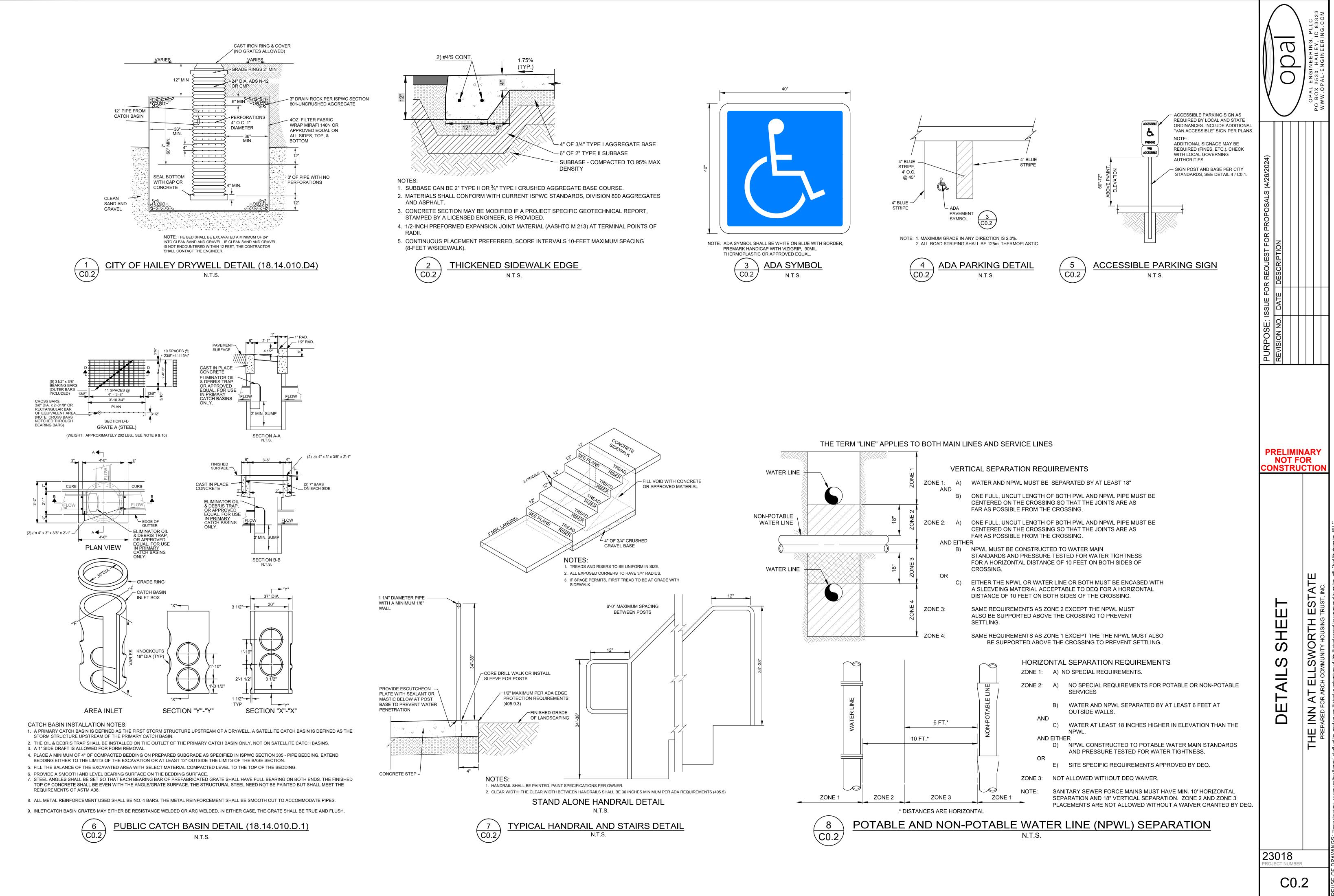
6" CONCRETE VERTICAL 5 \C0.1 CURB & GUTTER N.T.S.

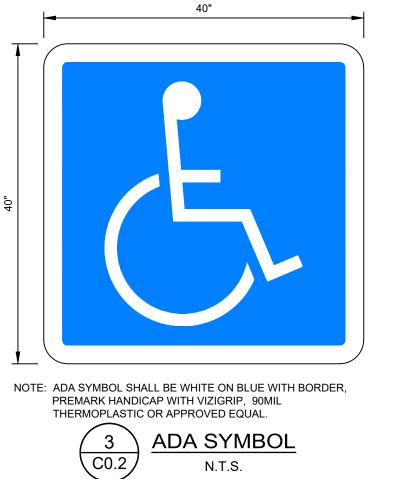


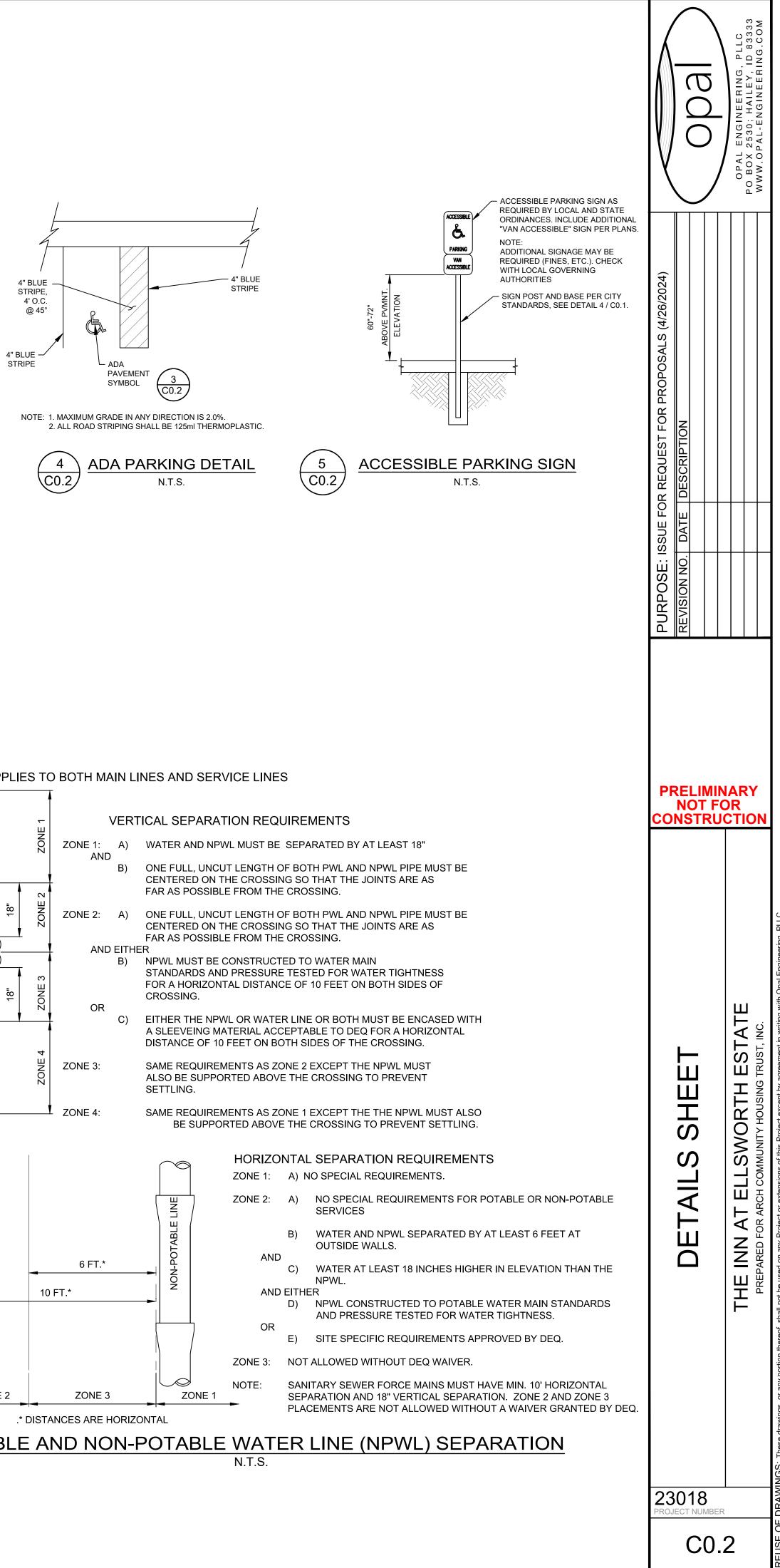
CITY OF HAILEY STREET SIGN DETAIL (18.14.014.D) N.T.S.

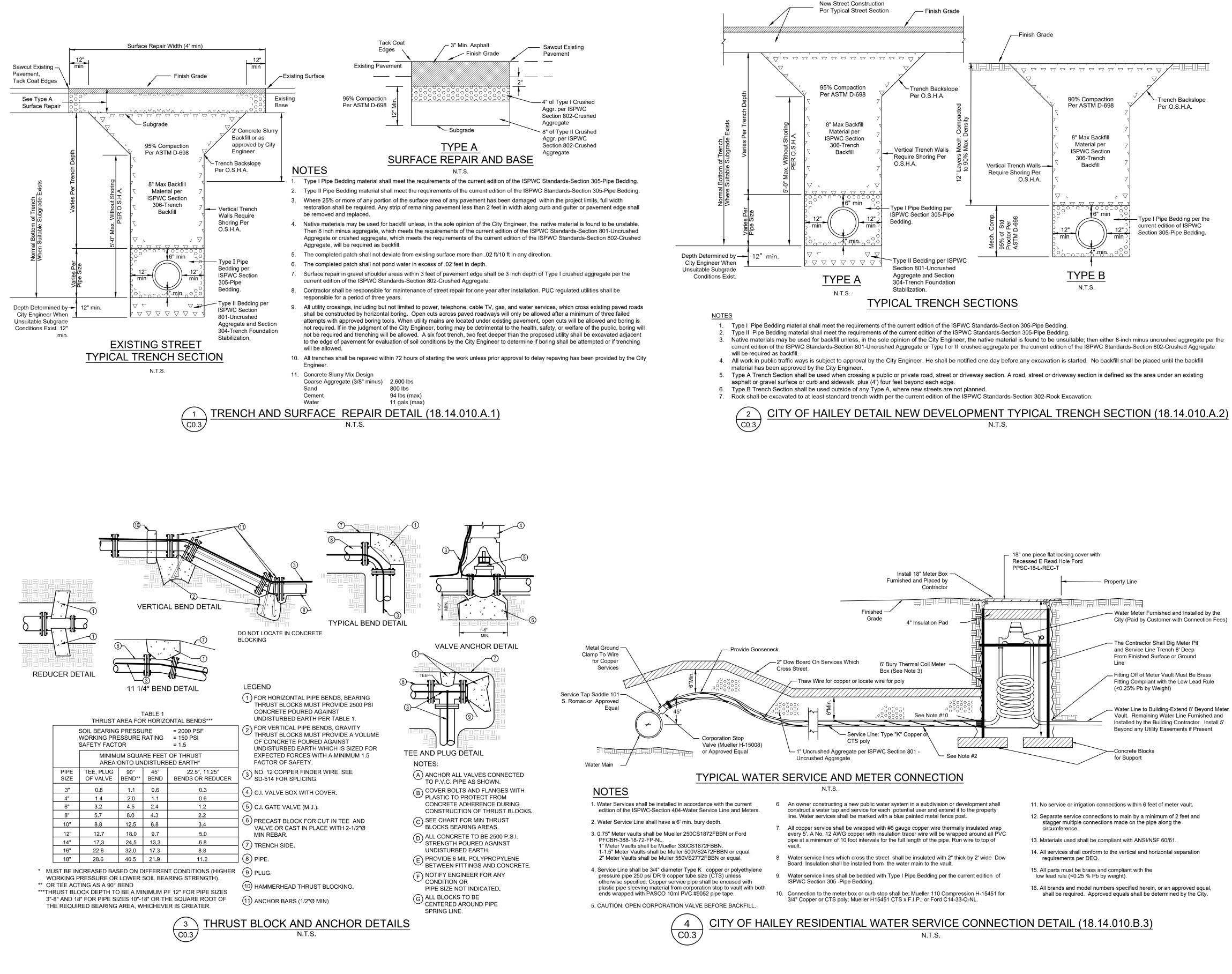


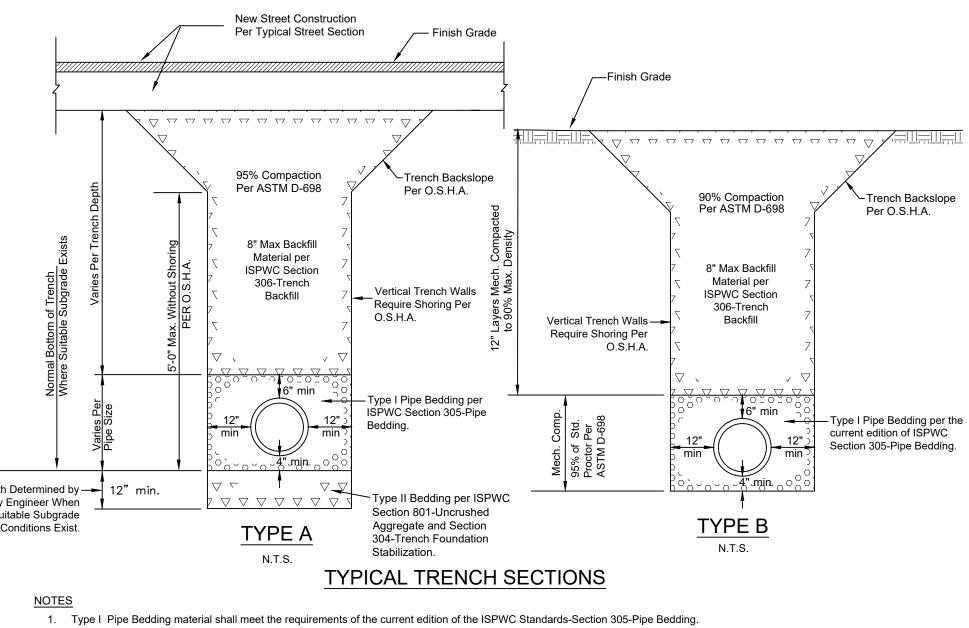
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current edition of the ISPWC Standards-Section 801-Uncrushed Aggregate or Type I or II crushed aggregate per the current edition of the ISPWC Standards-Section 802-Crushed Aggregate



SEWER CONSTRUCTION NOTES

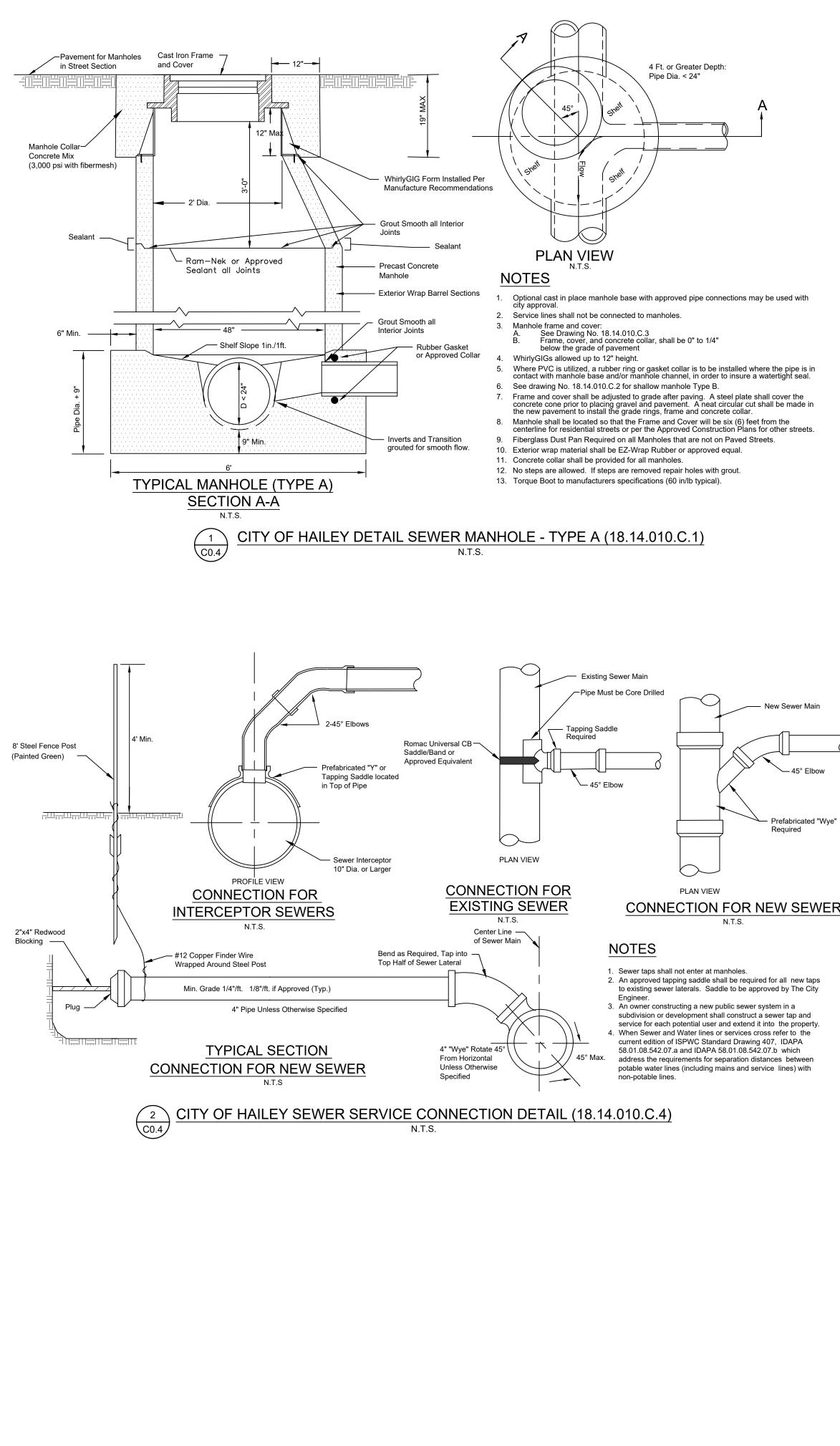
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" (ISPWC) AND THE CITY OF HAILEY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY OF THE ABOVE STANDARDS AND SPECIFICATIONS AND A SET OF PLANS STAMPED WITH THE DEQ APPROVAL STAMP AND A COPY OF THE DEQ APPROVAL LETTER ON SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL SERVICES SHALL COMPLY WITH IDAPA 58.01.08.542.07.a AND IDAPA 58.01.08.542.07.b WHICH ADDRESS THE REQUIREMENTS FOR SEPARATION DISTANCES BETWEEN POTABLE WATER LINES (INCLUDING MAINS AND SERVICE LINES) WITH NON-POTABLE LINES (SEE ILLUSTRATION OF THESE SEPARATION REQUIREMENTS ON SHEET C0.2). IN ADDITION, WATER SERVICES SHALL BE CONSTRUCTED WITH AT LEAST 25 FEET HORIZONTAL SEPARATION FROM INFILTRATION TRENCHES AND DRY WELLS.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES DURING THE CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM HIS FAILURE TO ACCURATELY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING WATER AND SEWER MAINS AT ALL PROPOSED CROSSINGS. SOME RELOCATION OF WATER AND SEWER MAINS MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON THE PLANS.
- POTABLE/NON-POTABLE CROSSINGS SHALL COMPLY WITH ISPWC STANDARD DRAWING NO. SD-407 AND IDAPA SECTION 58.01.08.542.07.
- THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS PRIOR TO EXCAVATION.
- SEWER SERVICE LINES SHALL BE PLACED AT A SLOPE OF 2%, WITH MARKERS PER ISPWC. CLEANOUTS ARE REQUIRED AT CHANGES IN ALIGNMENT, GRADE, AND MINIMUM 150' LENGTH.
- 8. ALL PIPE SHALL BE BEDDED WITH (ISPWC) TYPE I BEDDING MATERIAL
- TRENCHES SHALL BE BACK FILLED AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- 10. THE CONTRACTOR SHALL PRESSURE TEST ALL SEWER SERVICE CONNECTIONS IN ACCORDANCE WITH THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION".

WATER CONSTRUCTION NOTES

WATER SERVICE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF HAILEY STANDARDS. NO WATER SERVICE SHALL BE BACKFILLED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY THE CITY.

- 2. WATER SERVICES SHALL HAVE A MINIMUM COVER OF SIX FEET (6.0'), MEASURED FROM FINISHED GRADE.
- ALL 4" AND LARGER WATER LINES SHALL BE CONSTRUCTED WITH AWWA C-900, CLASS 235 PVC PIPE. ALL WATER MAINS SHALL BE PRESSURE TESTED IN CONFORMANCE WITH ISPWC SECTION 401.3.6 AND THE CITY OF HAILEY STANDARDS. TRACER WIRE SHALL BE NO. 12 GAUGE COPPER LOCATING WIRE INSULATED PER ISPWC SECTION 401 AND THE CITY OF HAILEY SPECIFICATIONS.
- ALL WATER DISTRIBUTION AND WATER SERVICE INSTALLATION MATERIALS AND CHEMICALS USED TO DISINFECT POTABLE WATER COMPONENTS MUST BE COMPLIANT WITH ANSI/NSF STANDARD 60/61. ALL MATERIALS MUST BE COMPLIANT WITH THE LOW LEAD RULE (<0.25%Pb BY WEIGHT).
- ALL TEES, PLUGS, CAPS AND BENDS SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING (MECHANICAL RESTRAINTS ARE NOT ALLOWED). THRUST BLOCKS SHALL CONFORM TO ISPWC SD-403 AND THE CITY OF HAILEY STANDARDS.
- ALL VALVES SHALL BE GATE VALVES WITH NON-RISING STEM, "O" RING SEALS, AND TWO-INCH OPERATING NUTS MEETING AWWA STANDARDS PER ISPWC SECTION 402. ALL GATE VALVES LOCATED IN PAVEMENT SHALL BE FITTED WITH CAST IRON VALVE BOXES WITH CONCRETE COLLARS PER ISPWC SD-406 AND THE CITY OF HAILEY SPECIFICATIONS.
- ALL WATER MAIN FITTINGS SHALL BE DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF AWWA C-110 FOR 250 PSI WORKING PRESSURE. JOINTS ON BURIED VALVES SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE NOTED. FLANGED JOINTS SHOULD IN GENERAL BE AVOIDED UNDERGROUND.
- 9. FIRE HYDRANTS SHALL CONFORM WITH THE CITY OF HAILEY STANDARDS.
- 10. ALL TAPPING SADDLES SHALL BE CONSTRUCTED FROM T-304 STAINLESS STEEL WITH ANSI/AWWA C-207 CLASS 150 FLANGES. ALL WELDS SHALL CONFORM TO ASTM A-380. THE TEST OUTLET SHALL BE 3/4" NPT WITH 3/4" NPT PLUG.
- 11. ALL WATER MAINS SHALL COMPLY WITH IDAPA 58.01.08.542.07.a AND IDAPA 58.01.08.542.07.b WHICH ADDRESS THE REQUIREMENTS FOR SEPARATION DISTANCES BETWEEN POTABLE WATER LINES (INCLUDING MAINS AND SERVICE LINES) WITH NON-POTABLE LINES (SEE ILLUSTRATION OF THESE SEPARATION REQUIREMENTS ON SHEET C0.2). IN ADDITION, WATER MAINS SHALL BE CONSTRUCTED WITH AT LEAST 25 FEET HORIZONTAL SEPARATION FROM INFILTRATION TRENCHES AND DRY WELLS.
- 12. ALL WATER SERVICES SHALL BE IN COMPLIANCE WITH ISPWC SECTION 404 AND THE CITY OF HAILEY STANDARDS. A USC EC APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) SHALL BE INSTALLED ON PRIMARY SERVICE CONNECTIONS (INCLUDING FIRE SUPPRESSION SERVICES, IF APPLICABLE) IN ACCORDANCE WITH THE CITY OF HAILEY WATER DEPARTMENT, FIRE MARSHAL, PLUMBING BUREAU, AND STATE OF IDAHO BACKFLOW PREVENTION REQUIREMENTS. IN AREAS WHERE MULTIPLE WATER SERVICE LINES ARE IN SAME TRENCH SEPARATE LINES BY 6".
- 13. THE CONTRACTOR SHALL KEEP THE EXISTING WATER DISTRIBUTION SYSTEM LIVE, TO THE GREATEST EXTENT POSSIBLE, WHILE INSTALLING THE NEW WATER MAIN AND SERVICES MINIMIZING DISRUPTION TO EXISTING WATER SYSTEM USERS. THE NEW WATER MAIN AND SERVICES SHALL BE INSTALLED, BACKFILLED, PRESSURE TESTED AND DISINFECTED AND FLUSHED PRIOR TO CONNECTING THE NEW MAIN TO THE EXISTING MAIN. THE MAXIMUM ALLOWABLE SERVICE OUTAGE FOR ANY SHUTDOWN IS 4 HOURS.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY REMOVING AND DISPOSING OF WATER ENTERING THE TRENCH DURING THE TIME THE TRENCH IS BEING PREPARED FOR INSTALLATION OF THE UTILITY, INCLUDING COMPLETION OF BACKFILL OF THE PIPE ZONE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL DISPOSE OF THE WATER IN A SUITABLE MANNER WITHOUT CAUSING DAMAGE TO PROPERTY.
- EXTRA FITTINGS MAY BE NECESSARY IN ADDITION TO THOSE SHOWN HEREON TO CONTROL ELEVATION AND AVOID UNDERGROUND CONFLICTS.

			OPAL ENGINEERING, PLLC	PO BOX 2530; HAILEY, ID 83333		
PURPOSE: ISSUE FOR REQUEST FOR PROPOSALS (4/26/2024)	REVISION NO. DATE DESCRIPTION					
PF	RELINOT	r FC			Ν	
	DETAILS SHEET		THE INN AT FILSWORTH ESTATE		PREPARED FOR ARCH COMMUNITY HOUSING TRUST, INC.	REUSE OF DRAWINGS: These drawings, or any portion thereof, shall not be used on any Project or extensions of this Project except by agreement in writing with Opal Engineering, PLLC.
23 PROJ	018 ECT NU	MBER	3			EUSE OF DRAWINGS: The



FLUSHING AND DISINFECTION

- A. FLUSHING PRIOR TO DISINFECTION
- 2. USE A MINIMUM FLUSHING VELOCITY IN THE MAIN OF 2.5 FEET/SECOND.

- IS IN GOOD CONDITION.
- B. DISINFECTION OF WATER PIPES
- 1. GENERAL

- 2. FORM OF CHLORINE USED TO BE PRE-APPROVED BY THE ENGINEER. a. LIQUID CHLORINE.
- 2) STANDARD: ANSI/AWWA B 301.
- 4) AUTHORIZATION: ONLY WITH WRITTEN AUTHORIZATION OF THE ENGINEER. b. SODIUM HYPOCHLORITE.
- 2) STANDARD: ANSI/AWWA B 300.
- c. CALCIUM HYPOCHLORITE.
- 2) STANDARD: ANSI/AWWA B 300.
- a. TABLET OR GRANULE METHOD.
- 1) SOLUTION STRENGTH: 25 MG/L MINIMUM. JOINT STEEL PIPE.
- AND AT 500-FOOT INTERVALS. 4) GRANULAR QUANTITY: REFER TO TABLE 2
- 6) TABLET QUANTITY: REFER TO TABLE 3
- (1) ADJUST FOR PIPE LENGTH OTHER THAN 18 FEET. (2) BASED ON 3.25G AVAILABLE CHLORINE PER TABLET.
- b. CONTINUOUS FEED METHOD.
- 1) SOLUTION STRENGTH: DOSE AT 25 MG/L FOR 4 HOURS. 2) RESIDUAL: 10 MG/L AT 24 HOURS. 3) DOSING METHODS:
- b) DIRECT FEED: NOT ALLOWED. d) CALCIUM HYPOCHLORITE GRANULES: REFER TO PREVIOUS SECTION.
- c. SLUG METHOD.
- 1) SOLUTION STRENGTH: 100 MG/L. 2) DOSING METHODS: PER ENGINEER'S DIRECTION.
- C. FINAL FLUSHING.
- 2. DISPOSAL OF FLUSHING WATER TO BE DONE IN A MANNER SO THAT IT DOES NOT:
- a. REACH SURFACE WATERS OR WATERS OF THE STATE b. DAMAGE SURROUNDING PROPERTIES
- D. BACTERIOLOGICAL TESTS.

pipe with one 90° elbow.

- TAKE 2 SAMPLES FROM EACH LOCATION AT LEAST 24 HOURS APART.
- E. REDISINFECTION.
- F. SWABBING.

TABLE 1 REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES

	40 PSI RESID	UAL PRES	SURE IN W	ATER MAII	N (1)			
	Flow Required to Produce 2.5 fps (approx)	Size of Tap (inch) (1) (1-1/2) (2)			Hydrant Outlets			
Pipe Diam.	Velocity in Main, (Gpm)	Numl	ber of taps o (2)	on pipe	Number	Size in		
(inch)	7		(~)			(inch)		
4	100	1			1	2-1/2		
6	220		1		1	2-1/2		
8	400		2	1	1	2-1/2		
10	600		3	2	1	2-1/2		
12	900			2	2	2-1/2		
16	1600			4	2	2-1/2		
1)	With a 40 psi pressure in the main with the hydrant flowing to atmosphere, a 2- 1/2 inch hydrant outlet will discharge approximately 1,000 gpm and a 4-1/2 inch hydrant will discharge approximately 2500 gpm.					inch hydrant		
2)	Number of taps on pipe based on discharge through 5 feet of galvanized iron (GI)							

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1. BEFORE CHLORINATION, FLUSH THE MAINS THOROUGHLY AFTER THE PRESSURE AND LEAKAGE TEST ARE COMPLETE.

3. IF NO HYDRANT IS INSTALLED AT THE END OF THE MAIN, PROVIDE A TAP OF THE SIZE SUFFICIENT TO PRODUCE A VELOCITY IN THE MAIN OF AT LEAST 2.5 FEET/SECOND. 4. TABLE 1 SHOWS THE RATES OF FLOW REQUIRED TO PRODUCE A VELOCITY OF 2.5 FEET/SECOND IN VARIOUS SIZE PIPES. 5. EXERCISE EXTREME CARE AND CONDUCT A THOROUGH INSPECTION DURING THE WATER MAIN LAYING TO PREVENT AND DETECT SMALL STONES, PIECES OF CONCRETE, PARTICLES OF MATERIAL, OR OTHER FOREIGN MATERIAL THAT MAY HAVE ENTERED THE MAINS. 6. CLEAN LARGE MATERIAL BY FLUSHING AND INSPECTING ALL HYDRANTS ON THE LINES TO ENSURE THAT THE ENTIRE VALVE OPERATING MECHANISM OF EACH HYDRANT

a. COMPLY WITH ANSI/AWWA C 651: DISINFECTING WATER MAINS, THESE SPECIFICATIONS, AND ENGINEER'S DIRECTION. b. KEEP THE INTERIOR OF ALL PIPE, FITTINGS AND APPURTENANCES FREE FROM DIRT, HEAVY AND FOREIGN PARTICLES. c. DISINFECT ALL WATER PIPES AND APPURTENANCES PRIOR TO PLACING IN SERVICE.

1) FORM: LIQUID CONTAINING 100% AVAILABLE CHLORINE UNDER PRESSURE IN STEEL CONTAINERS. 3) EXECUTION: USED ONLY BY TRAINED PERSONNEL WITH APPROPRIATE GAS-FLOW CHLORINATORS AND EJECTORS.

1) FORM: LIQUID CONTAINING APPROXIMATELY 5% TO 15% AVAILABLE CHLORINE.

1) FORM: GRANULAR OR IN 5G TABLETS CONTAINING APPROXIMATELY 65% AVAILABLE CHLORINE BY WEIGHT.

3. METHODS OF CHLORINATION USED TO BE PRE-APPROVED BY THE ENGINEER.

2) USE: ONLY IF THE PIPES AND APPURTENANCES ARE KEPT CLEAN AND DRY DURING CONSTRUCTION. DO NOT USE SOLVENT WELDED PLASTIC OR SCREWED 3) PLACEMENT WHEN USING GRANULES: DURING CONSTRUCTION, PLACE CALCIUM HYPOCHLORITE GRANULES AT THE UPSTREAM END OF EACH BRANCH MAIN,

5) PLACEMENT WHEN USING TABLETS: DURING CONSTRUCTION, PLACE 5G CALCIUM HYPOCHLORITE TABLES IN EACH SECTION OF PIPE AND ALSO PLACE

ONE TABLET IN EACH HYDRANT, HYDRANT BRANCH AND OTHER APPURTENANCES. ATTACH TABLETS TO THE INSIDE OF THE PIPE USING AN ADHESIVE SUCH AS PERMATEX NO. 2 OR APPROVED SUBSTITUTION. ASSURE NO ADHESIVE IS ON THE TABLET EXCEPT ON THE BROAD SIDE ATTACHED TO THE SURFACE OF THE PIPE. ATTACH ALL THE TABLETS AT THE INSIDE TIP OF THE MAIN, WITH APPROXIMATELY EQUAL NUMBERS OF TABLETS AT EACH END OF A GIVEN PIPE LENGTH. IF THE TABLES ARE ATTACHED BEFORE THE PIPE SECTION IS PLACED IN THE TRENCH, MARK THEIR POSITION ON THE SECTION SO IT CAN BE READILY DETERMINED THAT THE PIPE IS INSTALLED WITH THE TABLES AT THE TOP.

7) FILLING PROCEDURE: WHEN GRANULE OR TABLET INSTALLATION HAS BEEN COMPLETED, FILL THE MAIN WITH CLEAN WATER AT A VELOCITY NOT EXCEEDING 1 FPS. TAKE PRECAUTIONS TO ASSURE THAT AIR POCKETS ARE ELIMINATED. LEAVE THIS WATER IN THE PIPE FOR AT LEAST 24 HOURS. IF THE WATER TEMPERATURE IS LESS THAN 41° F, LEAVE THE WATER IN THE PIPE FOR AT LEAST 48 HOURS. POSITION VALVE SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED WILL NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE.

a) LIQUID CHLORINE: SOLUTION FEED VACUUM-OPERATED CHLORINATOR IN COMBINATION WITH A BOOSTER PUMP.

c) HYPOCHLORITE SOLUTION: CHEMICAL FEED PUMP DESIGNED FOR FEEDING CHLORINE SOLUTIONS.

4) FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE THE CHLORINE CONCENTRATION AT REGULAR INTERVALS AND ENSURE A 25 MG/L DOES. POSITION VALVES SO THAT THE CHLORINE SOLUTION IN THE MAIN BEING TREATED DOES NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE. DO NOT STOP CHLORINE APPLICATION UNTIL THE ENTIRE MAIN IS FILLED WITH CHLORINATED WATER. RETAIN THE CHLORINATED WATER IN THE MAIN FOR AT LEAST 4 HOURS, OPERATING ALL VALVES AND HYDRANTS IN THE SECTION TREATED. AT THE END ON THE 24 HOUR PERIOD, VERIFY THE TREATED WATER IN ALL PORTIONS OF THE MAIN HAS RESIDUAL OF 10 MG/L FREE CHLORINE.

3) FILLING PROCEDURE: USE APPROVED SOURCE TO FLOW CLEAN WATER AT A CONSTANT, MEASURED RATE INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE CONCENTRATION AT REGULAR INTERVALS TO ENSURE 100 MG/L DOSE APPLY THE CHLORINE CONTINUOUSLY AND FOR THE TIME REQUIRED TO DEVELOP A SOLID COLUMN OR "SLUG" OF CHLORINATED WATER THAT WILL, AS IT MOVES THROUGH THE MAIN, EXPOSE ALL INTERIOR SURFACES TO A 100 MG/L FOR AT LEAST 3 HOURS. MEASURE THE CHLORINE RESIDUAL IN THE SLUG AS IT MOVES THROUGH THE MAIN. IF AT ANY TIME IT DROPS BELOW 50 MG/L, STOP FLOW AND RELOCATE CHLORINATION EQUIPMENT AT THE HEAD OF THE SLUG, AND AS FLOW IS RESUMED, ADD CHLORINE TO RESTORE THE FREE CHLORINE IN THE SLUG TO NOT LESS THAN 100 MG/L. AS THE CHLORINATED WATER FLOWS PAST FITTINGS AND VALVES, OPERATE VALVES AND HYDRANTS TO DISINFECT APPURTENANCES AND PIPE BRANCHES.

1. AFTER THE RETENTION PERIOD, FLUSH THE CHLORINATED WATER FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT IN THE SYSTEM. OR IS ACCEPTABLE FOR DOMESTIC USE.

c. TAKE PLACE DURING PERIODS WHEN THE AMBIENT TEMPERATURE IS ABOVE 85° WITHOUT PRIOR APPROVAL OF THE ENGINEER

3. IF WATER CAN NOT BE RETAINED ON SITE AND IF IT IS NOT ALLOWED TO ENTER THE SANITARY SEWER COLLECTION SYSTEM, WATER SHALL BE DECHLORINATED TO HAVE A MAXIMUM AVAILABLE CHLORINE CONCENTRATION OF 0.13 MG/L AND THE APPROPRIATE PRIVATE. FEDERAL AND STATE DISCHARGE AND DISPOSAL APPROVALS SHALL BE ACQUIRED PRIOR TO COMMENCEMENT OF FLUSHING ACTIVITIES. SHOULD THERE BE A POTENTIAL FOR THE GROUNDWATER RULE TO BE VIOLATED AS A RESULT OF A CHLORINATED DISCHARGE THE ENGINEER SHALL COORDINATE DISPOSAL WITH REGIONAL DEQ STAFF PRIOR TO FLUSHING.

1. AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, TEST SAMPLES COLLECTED FROM THE MAIN(S) FOR COLIFORM BACTERIA.

2. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, COLLECT SAMPLES FROM EACH 1,200 FEET ON THE NEW MAIN AND ONE FROM EACH BRANCH.

1. IF THE INITIAL DISINFECTION FAILS TO PRODUCE APPROVED BACTERIOLOGICAL SAMPLES, REFLUSH AND RESAMPLE THE MAIN. 2. IF CHECK SAMPLES SHOW BACTERIAL CONTAMINATION, RE-CHLORINATE THE MAIN UNTIL APPROVED RESULTS ARE OBTAINED.

1. IF CONNECTIONS ARE NOT DISINFECTED ALONG WITH THE NEWLY INSTALLED MAIN, SWAB OR SPRAY THE INTERIOR OF ALL PIPES AND FITTINGS USED IN MAKING THE CONNECTIONS WITH A 1% HYPOCHLORITE SOLUTION BEFORE INSTALLATION.

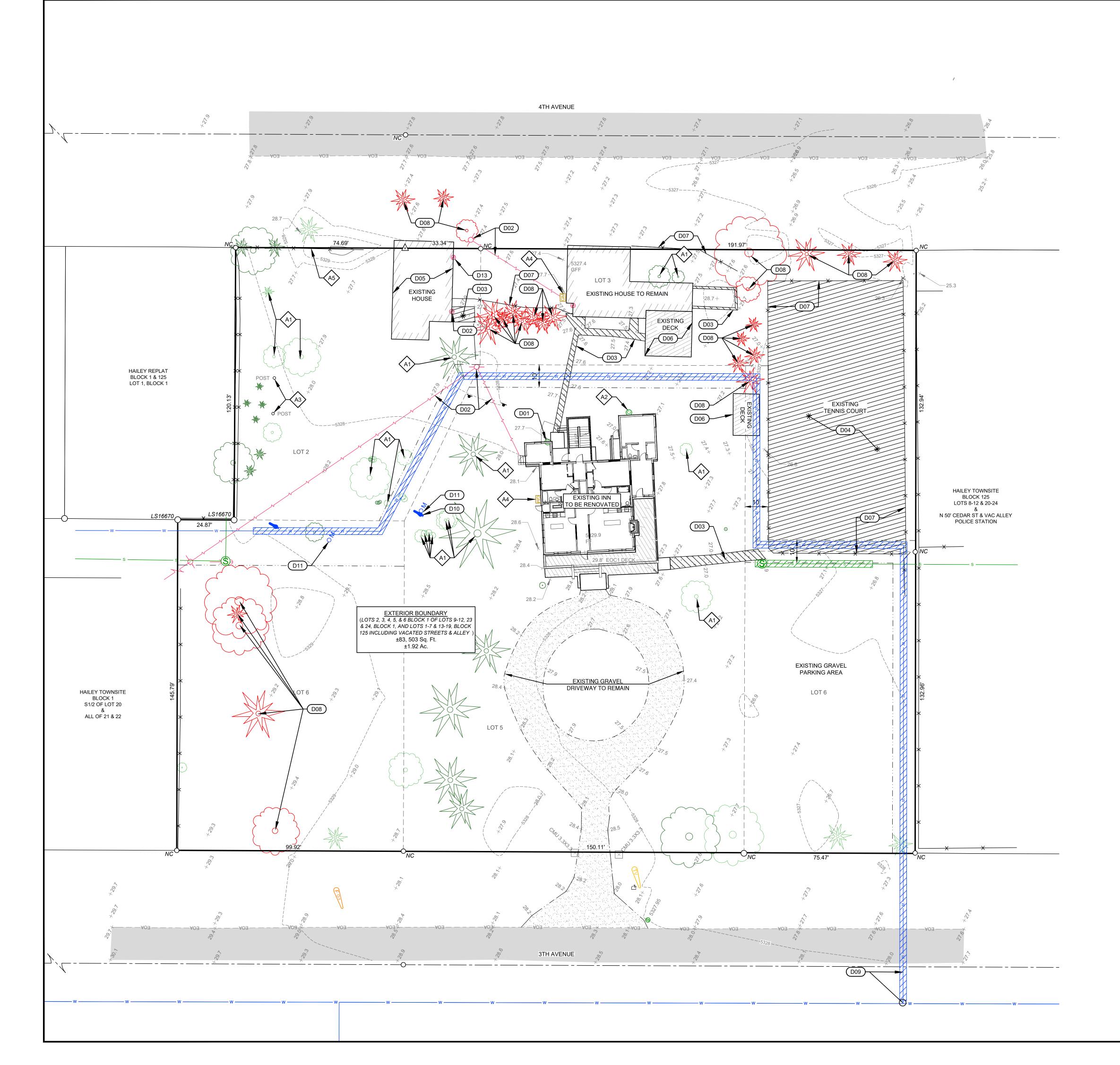
TABLE 2 OUNCES OF GRANULES						
Pipe Diameter	Amount					
(inches)	(ounces)					
4	1.7					
6	3.8					
8	6.7					
10	10.5					
12	15.1					
16	26.8					
18	34.0					
20	41.9					
24	60.4					

NUMBER OF TABLETS (1)					
Pipe	Number of				
Diameter	5g Tablets (2)				
(inches)					
4	1				
6	1				
8	2				
10	3				
12	4				
16	6				
18	7				
20	9				

TABLE 3

				PO BOX 2530; HAILEY, ID 83333	WWW.OPAL-ENGINEERING.COM	
PURPOSE: ISSUE FOR REQUEST FOR PROPOSALS (4/26/2024)	REVISION NO. DATE DESCRIPTION					
		IMII T F TRU				
	DETAILS SHEET			I HE INN AT ELLOWORTH EVIALE	PREPARED FOR ARCH COMMUNITY HOUSING TRUST, INC.	
23 PROJ	01	8 IUMBER	2			

C0.4



NOTES

1. SEE SHEET C0.1 FOR CONSTRUCTION GENERAL NOTES.

LEGEND

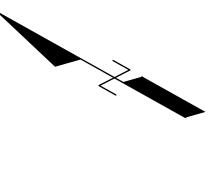
0	FOUND 5/8" REBAR
0	FOUND 1/2" REBAR
	FOUND 5/8" REBAR W/1.5" AC
<u> </u>	CALCULATED POINT (NOTHING FOUND OR SET) PROPERTY LINE
	ADJOINER'S LOT LINE (BLAINE COUNTY GIS)
	CENTERLINE
	INTERIOR LOT LINE (CALCULATED - INTERIOR LOT LINES NOT SURVEYED)
	UTILITY EASEMENT PER PLAT INSTRUMENT NUMBER 196806, TO BE MODIFIED
·····	OVERHEAD POWER LINE
	5' CONTOUR INTERVAL
	1' CONTOUR INTERVAL
	CONCRETE SIDEWALK
— — ЕОА— — — — — ЕОА— — —	ASPHALT
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* / ///	DECK
	BUILDING
GAS	GAS MARKER
GM	GAS METER
\bigtriangledown	CABLE TV RISER
0	POST
0	POWER METER
-0-	
s	SEWER MAIN SEWER SERVICE
Ś	SEWER MANHOLE
©	SEWER CLEANOUT
w	WATER MAIN
ws	WATER SERVICE
ОM	WATER METER
	FROST FREE HYDRANT
FOB	FIBER OPTIC MARKER
<u>ٿ</u>	MAILBOX
	CONIFEROUS TREE
	DECIDOUS TREE
×	CONIFEROUS TREE TO BE REMOVED
\bigcirc	DECIDOUS TREE TO BE REMOVED
	SAWCUT LINE
	ASPHALT TO BE REMOVED
	WATER LINE TO BE ABANDONED AFTER PHASE 1 WATER MAIN INSTALLED
	SEWER LINE TO BE ABANDONED AFTER PHASE 1 SEWER MAIN INSTALLED
DEMOLITIO	N KEYNOTES
	STING CLEANOUT.

D01 REMOVE EXISTING CLEANOUT.

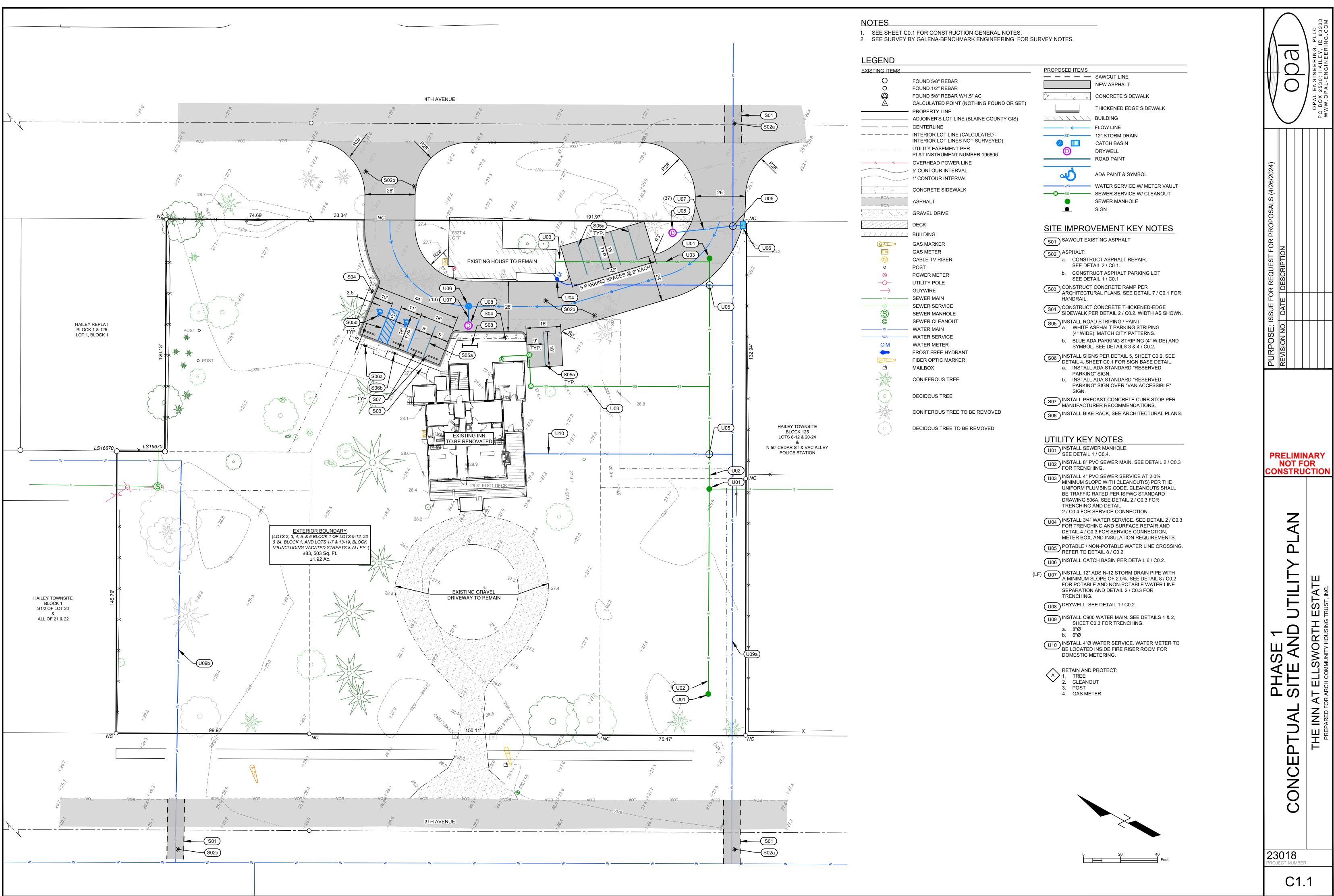
D02 REMOVE EXISTING POWER INFRASTRUCTURE, COORDINATE WITH IDAHO POWER. D03 DEMOLISH, REMOVE, AND DISPOSE OF EXISTING CONCRETE SIDEWALK.

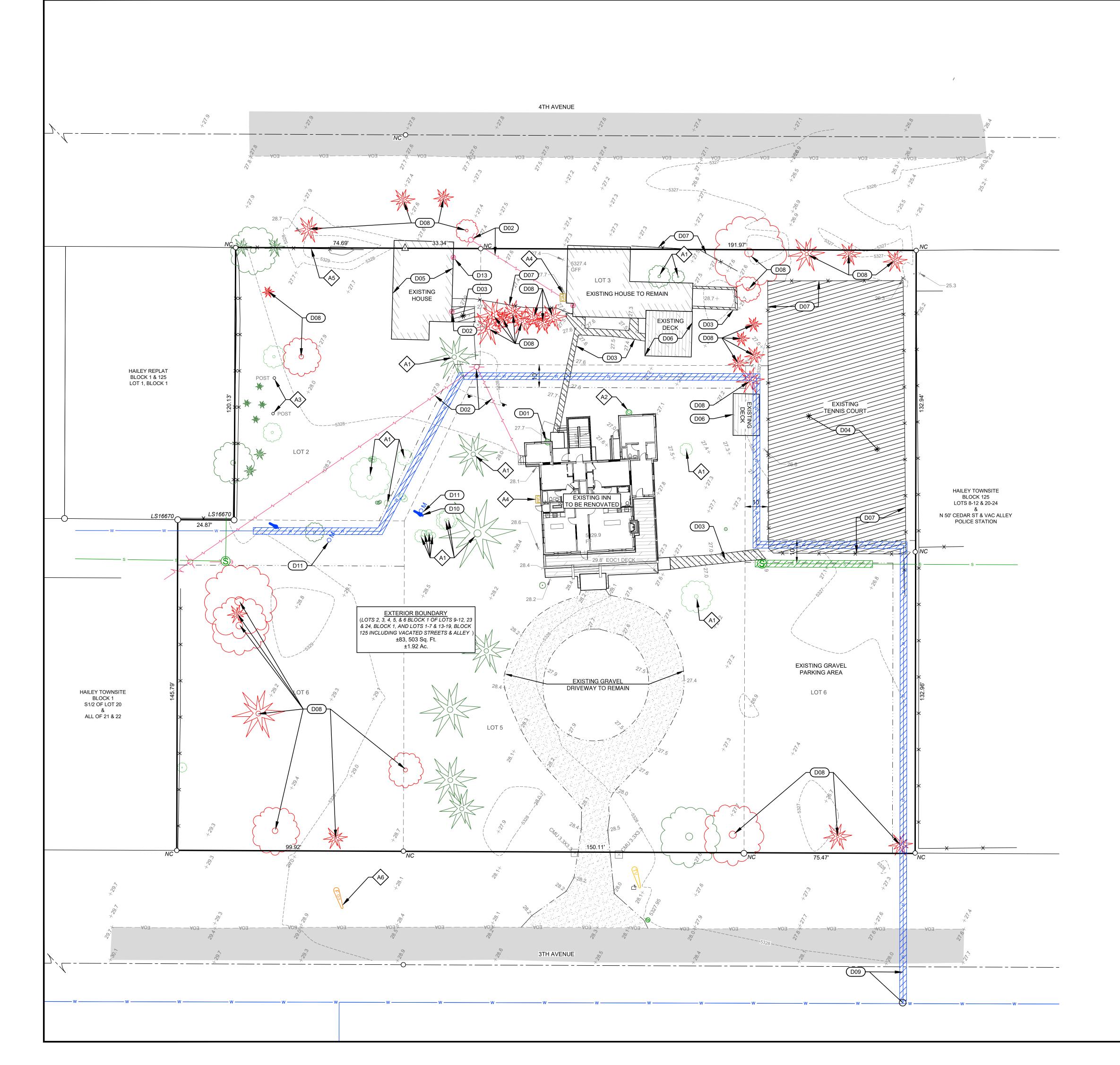
- D04 DEMOLISH, REMOVE, AND DISPOSE OF EXISTING TENNIS COURT. D05 DEMOLISH, REMOVE, AND LEGALLY DISPOSE OF EXISTING BUILDING. SEE ARCHITECTURAL
- PLANS.
- D06 DEMOLISH, REMOVE, AND DISPOSE OF EXISTING DECK.
- D07 REMOVE AND DISPOSE OF EXISTING FENCE.
- D08 REMOVE AND DISPOSE OF EXISTING TREE / VEGETATION.
- D09 CUT, CAP, AND ABANDON EXISTING WATER MAIN AT CONNECTION TO 3RD AVENUE WATER MAIN.
- D10 REMOVE EXISTING FROST FREE HYDRANT.
- D11 REMOVE AND DISPOSE OF EXISTING WATER METER.

A RETAIN AND PROTECT: 1. TREE 2. CLEANOUT 3. POST 4. GAS METER 5. FENCE



PURPOSE: ISSUE FOR REQUEST FOR PROPOSALS (4/26/2024) PURPOSE: ISSUE FOR REQUEST FOR PROPOSALS (4/26/2024) DEMOLITION PLAN THE INN AT ELLSWORTH ESTATE PREPARED FOR ARCH COMMUNITY HOUSING TRUST, INC.			OPAL ENGINEERING, PLLC	PO BOX 2530; HAILEY, ID 83333 WWW.OPAL-ENGINEERING.COM
PRELIMINARY NOT FOR CONSTRUCTION	ЦL	DATE		
PHASE 1 DEMOLITION PLAN THE INN AT ELLSWORTH ESTATE PREPARED FOR ARCH COMMUNITY HOUSING TRUST, INC.		NOT	R	
	DHACE 1	DEMOLITION PLAN	THE INN AT ELL SWORTH ESTATE	PREPARED FOR ARCH COMMUNITY HOUSING TRUST, INC.





NOTES

1. SEE SHEET C0.1 FOR CONSTRUCTION GENERAL NOTES.

LEGEND

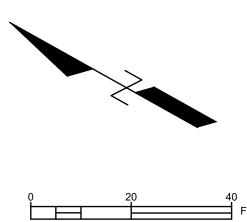
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\mathbf{Q}	CALCULATED POINT (NOTHING FOUND OR SET)
<u> </u>	
	PROPERTY LINE ADJOINER'S LOT LINE (BLAINE COUNTY GIS)
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	5' CONTOUR INTERVAL
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— — ЕОА— — — — — ЕОА— — —	ASPHALT
	GRAVEL DRIVE
	DECK
	BUILDING
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S	SEWER MANHOLE
©	SEWER CLEANOUT
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WS	WATER SERVICE
ОM	WATER METER
	FROST FREE HYDRANT
FOB	FIBER OPTIC MARKER
Ċ	MAILBOX
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DEMOLITIO	N KEYNOTES
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D01 REMOVE EXISTING CLEANOUT.

- D02 REMOVE EXISTING POWER INFRASTRUCTURE, COORDINATE WITH IDAHO POWER.
- D03 DEMOLISH, REMOVE, AND DISPOSE OF EXISTING CONCRETE SIDEWALK.
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A RETAIN AND PROTECT: 1. TREE 2. CLEANOUT 3. POST 4. GAS METER 5. CLEANOUT

- 5. FENCE 6. FIBER OPTICS LINE



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PURPOSE: ISSUE FOR REQUEST FOR PROPOSALS (4/26/2024)	REVISION NO. DATE DESCRIPTION			
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