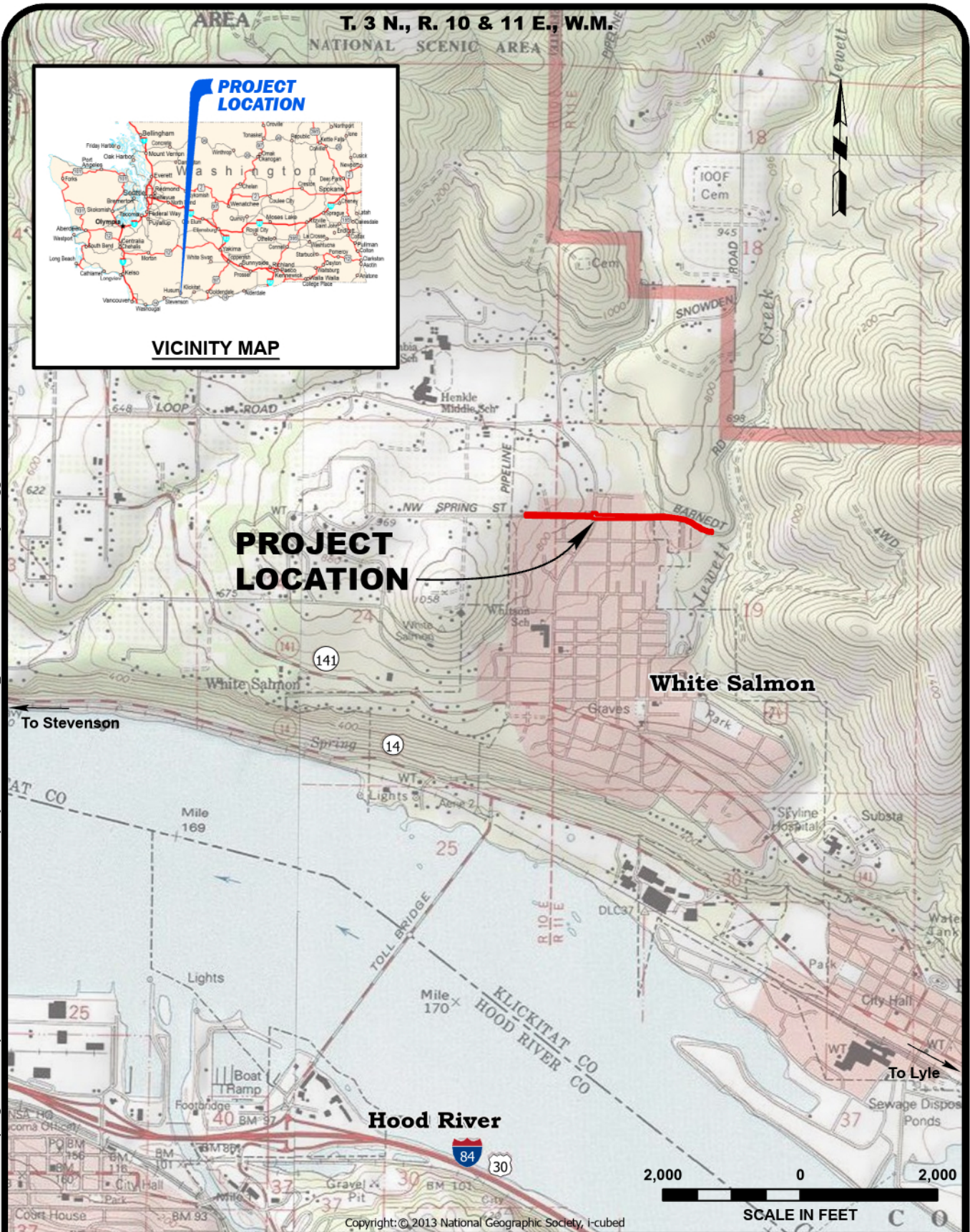


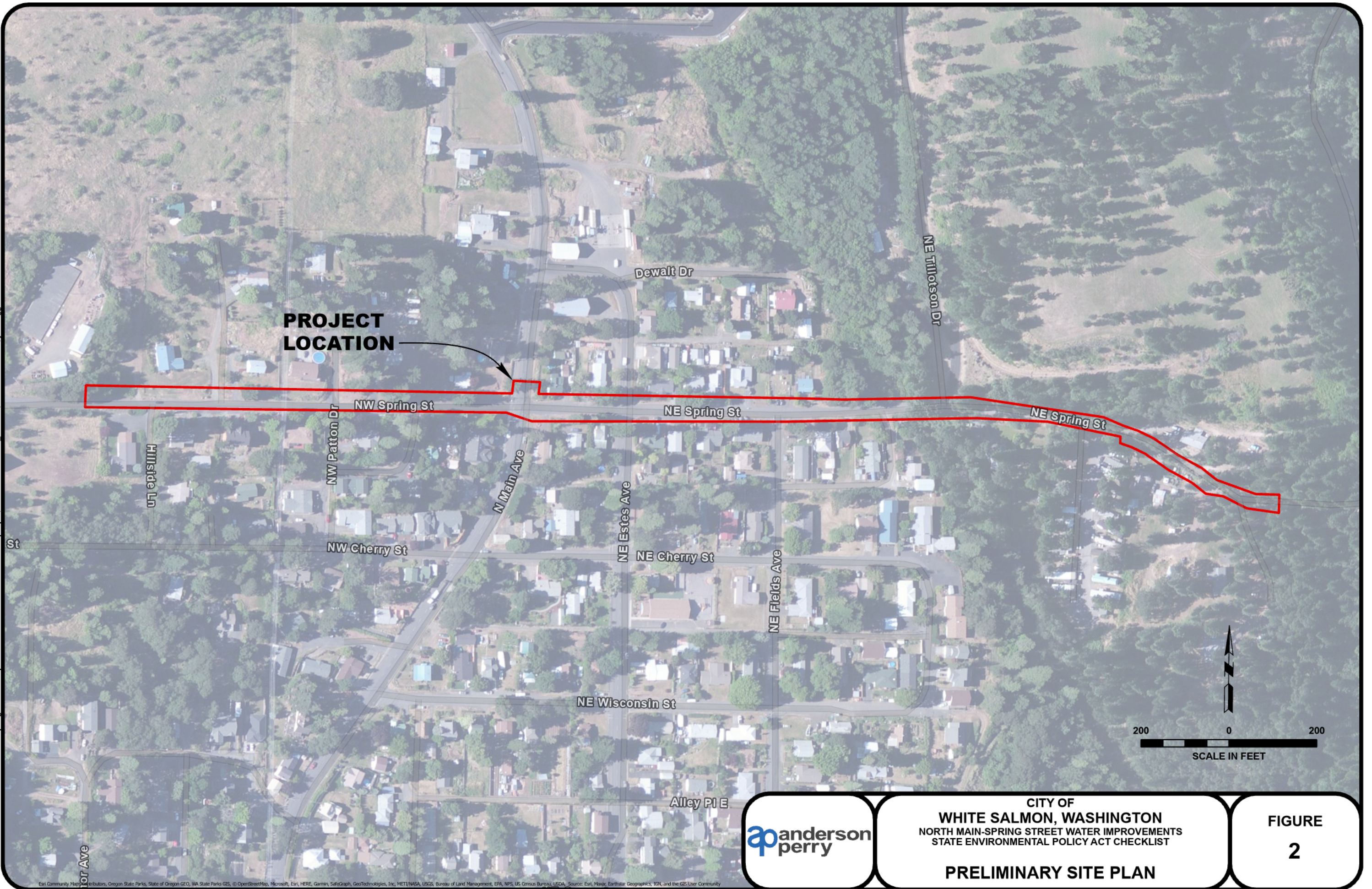
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**CITY OF
WHITE SALMON, WASHINGTON**
NORTH MAIN-SPRING STREET WATER IMPROVEMENTS
STATE ENVIRONMENTAL POLICY ACT CHECKLIST

LOCATION AND VICINITY MAPS

**FIGURE
1**



**PROJECT
LOCATION**

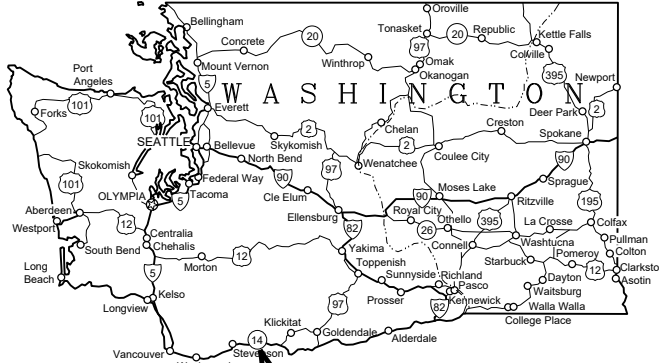


CITY OF
WHITE SALMON, WASHINGTON
 NORTH MAIN-SPRING STREET WATER IMPROVEMENTS
 STATE ENVIRONMENTAL POLICY ACT CHECKLIST

PRELIMINARY SITE PLAN

**FIGURE
 2**

CITY OF WHITE SALMON, WASHINGTON NORTH MAIN-SPRING STREET WATER IMPROVEMENTS 2023



CITY COUNCIL

- MARLA KEETHLER - Mayor
- PATTY FINK - Position 1
- DAVID LINDLEY - Position 2
- JASON HARTMANN - Position 3
- JIM RANSIER - Position 4
- BEN GIANT - Position 5

CITY OFFICIALS

- TROY RAYBURN - City Administrator
- STEPHANIE PORTER - City Clerk/Treasurer
- ANDREW DIRKS - Public Works Director

PROJECT FUNDING

- CITY OF WHITE SALMON
- WASHINGTON STATE PUBLIC WORKS BOARD (LOAN)

**PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION**



Know what's below.
Call before you dig.

VICINITY MAP
N. T.S.

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Engineering Surveying Natural Resources Cultural Resources GIS
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GENERAL CONSTRUCTION NOTES

- ALL PROJECTS SHALL BE CONSTRUCTED PER THE LATEST EDITION OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (SSRB&MC) AS AMENDED AND SUPPLEMENTED BY THE APWA SUPPLEMENT, THE CITY WHITE SALMON STANDARD SPECIFICATIONS AND THESE DRAWINGS. WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL CODES.
- THE CONTRACTOR SHALL PROVIDE PROPER SAFETY MEASURES IN ACCORDANCE WITH STATE AND FEDERAL SAFETY LAWS (WISHA, OSHA) AND SHALL PROTECT EMPLOYEES AND THE PUBLIC.
- THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR AT THE JOB SITE DURING ALL WORKING HOURS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED STAMPED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL INVESTIGATE THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- ANY CHANGES TO THE DESIGN MUST BE APPROVED BY THE CITY OF WHITE SALMON AND THE ENGINEER PRIOR TO IMPLEMENTING/CONSTRUCTING THE CHANGE.
- THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, REPLACE ANY IMPROVEMENTS SO DAMAGED.
- THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR TO EXISTING UTILITIES AS WELL AS DAMAGES OCCURRING AS A RESULT OF DAMAGES TO UTILITIES. PRIOR TO DIGGING, VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL 1-800-425-5555 OR 811 TWO BUSINESS DAYS BEFORE YOU DIG. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND THE CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE OWNERS REPRESENTATIVE.
- THE OWNER HAS ESTABLISHED A SWPPP AND OBTAINED A CONSTRUCTION STORMWATER GENERAL PERMIT FROM THE DEPARTMENT OF ECOLOGY AND THE CONTRACTOR SHALL INITIATE A TRANSFER OF COVERAGE UPON EXECUTION OF CONTRACT AND COMPLY WITH THE NPDES GCP (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL CONSTRUCTION PERMIT). THIS INCLUDES USING BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMP'S IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (PERMIT OF ENTRY, GRADING, SEWER, WATER, ETC) BEFORE COMMENCING WORK. WORK IN THE RIGHT-OF-WAY OR WORK IMPACTING CITY EASEMENTS REQUIRES A RIGHT-OF-WAY OR ENTRY PERMIT FROM THE JURISDICTION OWNING THE RIGHT-OF-WAY.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK IN THE RIGHT-OF-WAY. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT TO EXISTING TRAFFIC. PROVISION SHALL BE MADE FOR ACCESS BY RESIDENTS IMPACTED BY PROJECT AND EMERGENCY AND GARBAGE COLLECTION VEHICLE ACCESS SHALL BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT LAND CORNERS. DISTURBED PROPERTY MARKERS, BENCHMARKS ETC. SHALL BE REPLACED AT THE CONTRACTOR'S COST USING THE SERVICES OF A REGISTERED SURVEYOR LICENSED IN THE STATE OF WASHINGTON.
- AMERICAN DISABILITY ACT REQUIREMENTS SHALL BE OBSERVED WHETHER OR NOT THEY ARE SPECIFICALLY CALLED OUT ON PLANS OR DETAILS. WHERE THE CONTRACTOR DEEMS PLANS ARE INADEQUATE TO CONSTRUCT FACILITIES TO ADA STANDARDS, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE WHO SHALL BE RESPONSIBLE TO OBTAIN ANY NECESSARY CLARIFICATION FROM THE ENGINEER OF ANY CHANGES OR MODIFICATIONS TO APPROVED PLANS. ANY CHANGES OR MODIFICATIONS SHALL BE APPROVED IN ADVANCE BY THE CITY.
- WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.

- CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO ENSURE PROFESSIONAL ARCHAEOLOGICAL MONITORING FOR THE INSTALLATION OF THE PROPOSED STORMWATER VAULTS, STORMWATER PIPING, SEWER LINE, AND ANY OTHER AREAS IDENTIFIED IN THE CULTURAL RESOURCE MONITORING PLAN.
- BACKFILLING OF ALL MAINS, SERVICES, APPURTENANCES, AND COMPACTED LIFTS SHALL BE OBSERVED BY THE OWNERS REPRESENTATIVE. OBSERVATION OF SUCH WORK SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER FOR THE REQUIRED OBSERVATIONS AT LEAST 24 HOURS PRIOR TO INSPECTION
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ON-SITE AND MAKE AVAILABLE TO THE OWNER OR OWNERS REPRESENTATIVES, A "RED-LINED" COPY OF PLANS SHOWING ALL VARIATIONS BETWEEN APPROVED PLANS AND CONSTRUCTED FACILITIES.
- UPON COMPLETION AND PRIOR TO FINAL APPROVAL OF THE WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE RED-LINED COPY OF THE PLANS FOR ESTABLISHMENT OF AS-BUILT RECORD DRAWINGS.
- THE ENGINEER OF RECORD SHALL PROVIDE THE CITY OF WHITE SALMON WITH WRITTEN, STAMPED CONFIRMATION THAT, "THE WATER SYSTEM IMPROVEMENTS, AS CONSTRUCTED, WILL FUNCTION AS DESIGNED." THE STAMPED CERTIFICATION SHALL ALSO APPEAR ON THE RECORD DRAWINGS.
- THE CONTRACTOR SHALL OBSERVE THE CURRENT CITY NOISE ORDINANCE (11 P.M. -7 A.M.)

GENERAL STREET CONSTRUCTION NOTES

- STREET BASE ROCK LIFTS SHALL BE IMPORTED CRUSHED ROCK, COMPACTED TO A 95% RELATIVE DENSITY WITH A VIBRATING COMPACTION SLED, UPRIGHT HAMMERING COMPACTOR, HOEPACK, OR VIBRATORY COMPACTION ROLLER.
*** NATIVE/EXCAVATED MATERIAL SHALL NOT BE USED FOR BACKFILL ***
- STREET BASE ROCK LIFTS SHALL BE NO MORE THEN 12" IN HEIGHT IN ORDER TO ASSURE PROPER COMPACTION. APPROPRIATE MOISTURE SHALL BE ADDED TO THE ROCK FOR OPTIMIZING COMPACTION. ROCK IS NOT TO BE COMPACTED OR GRADED DRY.
- THE LAST OR TOP LIFT, PRIOR TO PAVING THE CUT, MAY EITHER BE COMPACTED CRUSHED ROCK OR A CONTROLLED DENSITY CONCRETE FILL. CONTROLLED DENSITY CONCRETE FILL SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO USE.
- A COAT OF CSS-1 TACK SHALL BE APPLIED TO THE ADJOINING EDGES OF ALL ASPHALT STREET CUTS. THE ONLY EXCEPTION TO THIS IS WHERE CONCRETE IS BEING USED AS THE RESURFACING MATERIAL.
- ASPHALT FINAL TOP COURSE LIFTS SHALL BE CONSTRUCTED OF CLASS 1/2-INCH PG 64-28 HMA. PAVEMENT THICKNESS SHALL BE AS ESTABLISHED IN THE PLANS.
- THE FOLLOWING TESTS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO ROADWAY CONSTRUCTION:
 - CURRENT WSDOT PIT CERTIFICATION
 - T-606/T-911 (SUBGRADE MAX. DENSITY) NOTE: PROVIDE ADDITIONAL TEST FOR SUBGRADE EXCAVATIONS 2' OR MORE BELOW EXISTING GRADE.
 - T-606 (CSTC MAX. DENSITY)
 - T-27/11 CSTC SIEVE ANALYSIS
 - T-176 CSTC SAND EQUIVALENT (SE)
 - T-606 (CSBC MAX. DENSITY)
 - T-27/11 CSBC SIEVE ANALYSIS
 - T-176 CSBC SAND EQUIVALENT (SE)
 - APPROVED ASPHALT MIX DESIGN
 - THEORETICAL MAXIMUM ASPHALT DENSITY (RICE)

- THE FOLLOWING HMA PLANT PRODUCTION TESTS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO HMA APPROVAL AND PAVING:
 - ASPHALT CONTENT
 - GRADATION
 - SAND EQUIVALENT
 - WSDOT DEGRADATION
 - LA WEAR TEST

- THE FOLLOWING TESTS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE TO WSDOT SPECIFICATIONS FOR CITY REVIEW AND APPROVAL DURING CONSTRUCTION:
 - DENSITY TESTS. FIVE MINIMUM PER FIRST 1000 FEET WITH ONE TEST PER 200' OR FRACTION THEREOF THEREAFTER FOR:
 - SUBGRADE BELOW 2 FEET MINIMUM DENSITY SHALL BE 95% OF THE MAXIMUM DENSITY AND + 2% OF THE OPTIMUM MOISTURE AS DETERMINED BY THE APPROPRIATE WSDOT TEST METHOD.
 - SUBGRADE AT GRADE SHALL BE SAME AS ABOVE.
 - CSBC TESTS ARE REQUIRED PER 12 INCHES OR FRACTION THEREOF DEPTH. MINIMUM DENSITY SHALL BE 95% BASED ON THE WSDOT 606 TEST METHOD.
 - CSTC TESTS ARE REQUIRED PER 6 INCHES OR FRACTION THEREOF DEPTH. MINIMUM DENSITY SHALL BE 95% BASED ON THE APPLICABLE WSDOT TEST METHOD.
 - FIVE ASPHALT DENSITIES PER 400 TON OF ASPHALT.
 - CONCRETE CORES ARE TO BE DETERMINED BY THE OWNER AS NEEDED.

TEST LOCATIONS TO BE DETERMINED BY THE OWNER OR OWNERS REPRESENTATIVE AND WILL GENERALLY CONFORM TO WSDOT TEST METHOD T 716.

- THE FOLLOWING TESTS AND INFORMATION SHALL BE PROVIDED FOR OWNER REVIEW AND APPROVAL PRIOR TO PLACEMENT OF CONCRETE:
 - BATCH PLANT PRE-CERTIFICATION (NRMCA)
 - MIX DESIGN
 - AIR CONTENT (4.5% - 7.5%)
 - CYLINDERS - SEE WSDOT REQUIREMENTS.
- ALL UTILITIES SHALL BE RAISED PRIOR TO PLACEMENT OF FINAL LIFT OF HMA. ANY GAPS AROUND UTILITIES SHALL BE FILLED WITH CONCRETE TO TOP OF BASE LIFT/GRADE PRIOR TO PAVING FINAL LIFT.
- CURB RAMP TRANSITIONS SECTIONS SHALL BE NO STEEPER THAN A 12:1 SLOPE AS PER THE AMERICANS WITH DISABILITIES ACT (A.D.A.)
- CURB RAMPS SHALL NOT BE PLACED INTEGRAL WITH THE SIDEWALK OR CURB AND SHALL BE ISOLATED WITH EXPANSION JOINT MATERIAL.
- DRIVEWAY/ALLEY APPROACH LIP SHALL BE NO LESS THAN 1". WHEELCHAIR RAMP LIP SHALL BE FLUSH.
- ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
- ALL RETROFIT CURB, GUTTER & SIDEWALK WORK SHALL BE SAW CUT SMOOTHLY AND EVENLY AT THE ADJOINING EDGES. COMPLETELY REMOVE THE WHOLE CURB AND GUTTER. CURB, GUTTER, DRIVEWAY & GUTTER SHALL NOT BE POURED AS ONE SECTION. EXCEPTION: PEDESTRIAN CURBS MAY BE MONOLITHICALLY POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.
- 1/2" FELT EXPANSION MATERIAL SHALL BE PLACED AT JOINTS AT ANY CHANGE IN DIRECTION, PROFILE, OR OTHER SIGNIFICANT CHANGE IN THE DESIGN OR CONFIGURATION OF THE SIDEWALK AND/OR CURB OCCURS AND AT REGULAR 100' INTERVALS. EXAMPLES OF THIS ARE AS FOLLOWS:
 - DRIVEWAY/ALLEY APPROACHES
 - OBSTRUCTIONS SUCH AS MANHOLES, WATER VALVE BOXES, POWER POLES, PHONE
 - PEDESTALS,
 - BEFORE AND AFTER ANY CHANGE IN DIRECTION SUCH AS SWEEPS OR CORNERS.
 - WHEEL CHAIR RAMPS
- CURB, GUTTER AND SIDEWALKS SHALL BE POURED AS SEPARATE UNITS EXCEPT THAT PEDESTRIAN CURBS MAY BE POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.
MONOLITHICALLY CONSTRUCTED WORK SHALL NOT BE ALLOWED
- CEMENT CONCRETE SHALL BE CLASS 4000 AND SEALED WITH LIQUI-HARD ULTRA OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

PROTECTION OF THE ENVIROMENT

NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

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								SHEET	
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								x OF XX	
REVISION DESIGNED BY: J. PENINGER DRAWN BY: G. SAURBIER REVIEWED BY:		BY: _____ DATE: _____		JOB NUMBER: 250-25 DATE: 2023 ACAD FILE: 250-25-G-001.dwg COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.		PRELIMINARY			
						CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS		GENERAL NOTES	

GENERAL NOTES

- THESE DRAWINGS SHALL BE COORDINATED AND USED IN CONJUNCTION WITH THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFERENCED DOCUMENTS INCLUDE THE CITY OF WHITE SALMON STANDARD DETAILS, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION), WSDOT STANDARD PLANS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL AND DEVICES (MUTCD).
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE SHOWN WITH AS MUCH ACCURACY AS POSSIBLE BASED ON AVAILABLE INFORMATION. SOME DISCREPANCIES AND OMISSIONS IN LOCATION, TYPE, AND SIZE SHOULD BE EXPECTED TO OCCUR. FURTHER DEFINITION OF CONTRACTOR RESPONSIBILITIES ARE INCLUDED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, IN AND AROUND THE WORK AREA. THE CONTRACTOR SHALL MAKE ANY ADVANCE EXPLORATION NECESSARY TO PROPERLY PLAN THE INSTALLATION OF PIPE TO THE LINE AND GRADE SHOWN ON THE DRAWINGS. THIS INCLUDES POTHOLING, WHICH SHALL SUFFICIENTLY PRECEDE LAYING OF PIPE TO ALLOW FOR ANY REQUIRED VERTICAL OR HORIZONTAL GRADE ADJUSTMENTS OF PIPE ALIGNMENT TO BE MADE WITHOUT REWORK. ELEVATION ADJUSTMENTS AT UTILITY LINE CROSSING SHALL BE EXPECTED AND CONSIDERED INCIDENTAL TO THE WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND DOCUMENTED ON THE RECORD DRAWINGS.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE-EXISTING OR BETTER CONDITIONS.
- THE WATER LINE ALIGNMENT AND DETAILS ON THESE SHEETS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL INSTALL THE WATER LINES AS MAY BE REQUIRED IN THE FIELD TO SATISFY THE INTENDED DESIGN AND AS APPROVED BY THE ENGINEER. THE CONTRACTOR MAY PROPOSE ALTERNATE ALIGNMENTS AND COMBINATION OF FITTINGS.
- HORIZONTAL AND VERTICAL BENDS ARE SHOWN WHERE NECESSARY. ADDITIONAL BENDS MAY BE NECESSARY DEPENDING ON EXACT LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION.
- CONNECTIONS TO EXISTING WATER LINES MAY REQUIRE TEMPORARY SHUTDOWNS OF EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER, THE AFFECTED PROPERTY OWNERS AND UTILITIES, AND REQUEST SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE OF DESIRED TIMING OF THE CONNECTION WORK. THE CONTRACTOR SHALL NOT ASSUME SHUTDOWN TIMES, BUT RATHER SCHEDULE AND COORDINATE SHUTDOWNS.
- OPERATION OF EXISTING VALVES AND FACILITIES SHALL BE PERFORMED BY OWNER PERSONNEL UNLESS PERMISSION IS OBTAINED FROM THE OWNER FOR OPERATION OF THE EXISTING SYSTEM BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TAPS, BLOWOFFS, FITTINGS, AND THRUST BLOCKS AS REQUIRED TO FACILITATE FLUSHING, TESTING, AND DISINFECTION OF NEW WATER LINES. AT COMPLETION OF DISINFECTION AND TESTING, ALL TEMPORARY TEST TAPS SHALL BE REPLACED WITH PERMANENT PLUGS.
- AT THE END OF EACH WORKDAY, ALL OPEN TRENCHES SHALL BE BACKFILLED OR TEMPORARILY COVERED, AND THE ENDS OF ALL OPEN PIPES SHALL BE CAPPED OR PLUGGED, TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR SHALL POTHOLE SUFFICIENTLY AHEAD TO DETERMINE THE DEPTH OF EACH EXISTING UTILITY WHERE IT CROSSES THE NEW MAIN TO MAINTAIN SLOPE DIRECTION, AVOID ANY HIGH POINTS, AND AVOID ANY CONFLICTS WITH THE EXISTING UTILITIES. IF THE NEW MAIN CAN NOT BE INSTALLED OVER THE EXISTING UTILITY WHILE PROVIDING MINIMUM COVER, THEN THE NEW MAIN SHALL BE INSTALLED BELOW THE EXISTING UTILITY. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEEPER INSTALLATIONS NECESSARY TO MAINTAIN SLOPE DIRECTION OR TO AVOID UTILITY CROSSINGS.
- ANY OBSTRUCTION ENCOUNTERED THAT MAY NOT BE SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. ITEMS VISIBLE IN THE FIELD ARE THE CONTRACTOR'S RESPONSIBILITY, EVEN IF NOT SHOWN ON THE PLANS.
- THE NEW WATER MAIN SHALL BE INSTALLED BELOW ALL EXISTING CULVERTS. DNR REQUIRES 3' OF SEPARATION BETWEEN THE BOTTOM OF THE CULVERT AND TOP OF THE NEW WATER MAIN, WITH THE EXCEPTION THAT THE SEPARATION MAY BE REDUCED TO 1.5' WHERE THE TRENCH DEPTH WILL EXCEED 9' DEPTH BASED ON A 3' SEPARATION.
- HDPE PIPE IS BEING BID AS AN OPTION TO DUCTILE IRON PIPE. SEE THE BID FORM, SPECIFICATIONS, AND WATER FITTING DETAIL PLAN SHEETS FOR FURTHER INFORMATION.
- THE CONTRACTOR SHALL FOLLOW ALL STORAGE, HANDLING, AND INSTALLATION REQUIREMENTS OF THE MANUFACTURER OF THE PIPE USED. THIS INCLUDES NOT EXCEEDING THE MANUFACTURER'S REQUIREMENTS FOR MINIMUM BEND RADIUS AND MAXIMUM DEFLECTION ANGLE.
- THE OWNER HAS OBTAINED AN EASEMENT THROUGH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES (DNR) TO WORK WITHIN THE DNR LAND BOUNDARIES.

RESTORATION AND COMPACTION NOTES

- SEE THE TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS FOR UTILITY TRENCH BACKFILL MATERIALS AND COMPACTION REQUIREMENTS. ALL COMPACTION OF MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 2-03.3(14)D OF WSDOT M41-10.
- AFTER COMPLETION OF THE PIPELINE AND GENERAL TRENCH BACKFILL, THE CONTRACTOR SHALL PLACE 6" OF COMPACTED CRUSHED SURFACING BASE COURSE (CSBC) AT THE TOP OF THE TRENCH AND AN ADDITIONAL 3" OF COMPACTED CSBC OVER ALL GRAVEL SURFACES WHERE EQUIPMENT OPERATED AND EXCAVATED MATERIALS WERE TEMPORARILY PLACED. SEE ADDITIONAL RESTORATION REQUIREMENTS ON SHEET C-506. THE CSBC SHALL BE GRADED AND COMPACTED AS REQUIRED. THE LIMITS OF THIS WORK SHALL BE DEFINED AS FOLLOWS: 25 FEET WIDE AREA FROM THE BEGINNING OF THE BID OPTION AND ADDITIVE ALTERNATE 1 WORK (STA 1+00) TO THE END OF THE BID OPTION AND ADDITIVE ALTERNATE 2 WORK (STA 126+90), AND ADDITIVE ALTERNATE 2 AREA IN THE ROADWAY. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CSBC RESTORATION FOR AREAS DISTURBED OUTSIDE OF THESE LIMITS, INCLUDING STAGING AND STOCKYARD AREAS.
- ALL DITCHES AND CULVERT INLETS AND OUTLETS SHALL BE THOROUGHLY CLEANED. ANY CULVERTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE ADDITIONAL RESTORATION REQUIREMENTS ON SHEET C-506 AND THE TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS.

GEOTECHNICAL REPORT

A GEOTECHNICAL REPORT WAS COMPLETED FOR THIS PROJECT. AN ELECTRONIC COPY OF THIS REPORT CAN BE FOUND IN APPENDIX D OF THE CONTRACT DOCUMENTS.

PIPELINE TESTING AND DISINFECTION NOTES

- PRESSURE TEST AND DISINFECT THE PIPELINE PRIOR TO ACCEPTANCE AND COMPLETING OF THE PROJECT. THE TESTING AND DISINFECTION SHALL FOLLOW THE REQUIREMENTS OUTLINED IN THE GENERAL REQUIREMENTS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
- FOR BOTH DUCTILE IRON AND HDPE OPTIONS, THE INSTALLED PIPELINES SHALL BE TESTED AND DISINFECTED IN SEGMENTS. THE INSTALLED PIPELINE SHALL BE TESTED IN SEGMENTS BETWEEN EACH COMBINATION AND VACUUM VALVE AND BLOWOFF LOCATION, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN WRITING. EACH SEGMENT SHALL HAVE A PASSING PRESSURE AND BACTERIOLOGICAL TEST. TEST RESULTS SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER BEFORE STARTING A NEW PIPELINE SEGMENT. FLUSHING SHALL BE COMPLETED IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS AND AS APPROVED BY THE ENGINEER. ALL CHLORINATED WATER SHALL BE DECHLORINATED IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS PRIOR TO RELEASE TO THE ENVIRONMENT.
- FOR DUCTILE IRON PIPE OPTION, THE PIPE SHALL BE INSTALLED AND THE BELL ENDS PLACE UPSTREAM UNLESS OTHERWISE APPROVED BY THEN ENGINEER IN WRITING. SEE THE GENERAL REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR TEMPORARY CONNECTION AND WATER MAIN INSTALLATION SEQUENCE REQUIREMENT.
- FOR THE HDPE OPTION, THE CONTRACTOR MAY INSTALL THE PIPELINE FROM EITHER THE UPPER OR LOWER STARTING POINTS; HOWEVER, IT SHALL BE REQUIRED TO CONTINUE IN ONE DIRECTION ONLY. DEPENDING ON THE STARTING LOCATION, WATER FOR TESTING CAN BE TAKEN EITHER FROM A TEMPORARY CONNECTION TO THE EXISTING WATER LINE AT THE BEGINNING OR END OF THE PIPELINE.

BASIS OF SURVEY

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE. NAD83(1991) DERIVED FROM TIES TO WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES CONTROL POINTS AS SHOWN ON THAT RECORD OF SURVEY RECORDED SEPTEMBER 11, 2008 IN BOOK 11, AT PAGE 551, RECORDS OF KLICKITAT COUNTY AUDITOR.

VERTICAL DATUM

NAVD 88 BASED ON OPUS GPS POSITIONS.

ABBREVIATIONS

AC	ASBESTOS-CEMENT
APPROX	APPROXIMATELY
BOC	BACK OF CURB
CB	CATCH BASIN
CDF	CONTROL DENSITY FILL
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATION
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DNR	WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
ECOLOGY	WASHINGTON STATE DEPARTMENT OF ECOLOGY
ELEV	ELEVATION
EOP	END OF PAVING
ESCP	EROSION AND SEDIMENT CONTROL PLAN
EST	ESTIMATED
EVCE	END VERTICAL CURVE ELEVATION
EXTG	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISH GRADE
FIP	FEMALE IRON PIPE
FL	FLOW LINE
FLG	FLANGE
FOC	FACE OF CURB
GB	GRADE BREAK
GIP	GALVANIZED IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HSS	HOLLOW STRUCTURAL SECTION
IE	INVERT ELEVATION
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING
MIN	MINIMUM
MJ	MECHANICAL JOINT
MSC	MISCELLANEOUS
MSL	MEAN SEA LEVEL
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NE	NORTHEAST
NW	NORTHWEST
OC	ON CENTER
PC	POINT OF CURVE
PL	PROPERTY LINE
PROJ	PROJECTED
PT	POINT OF TANGENT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
REQ'D	REQUIRED
ROW	RIGHT-OF-WAY
RT	RIGHT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTHWEST
TBC	TOP BACK OF CURB
TBDC	TOP BACK OF DEPRESSED CURB
TC	TOP OF CURB
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TYP	TYPICAL
VC	VERTICAL CURVE
WM	WATER MAIN
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

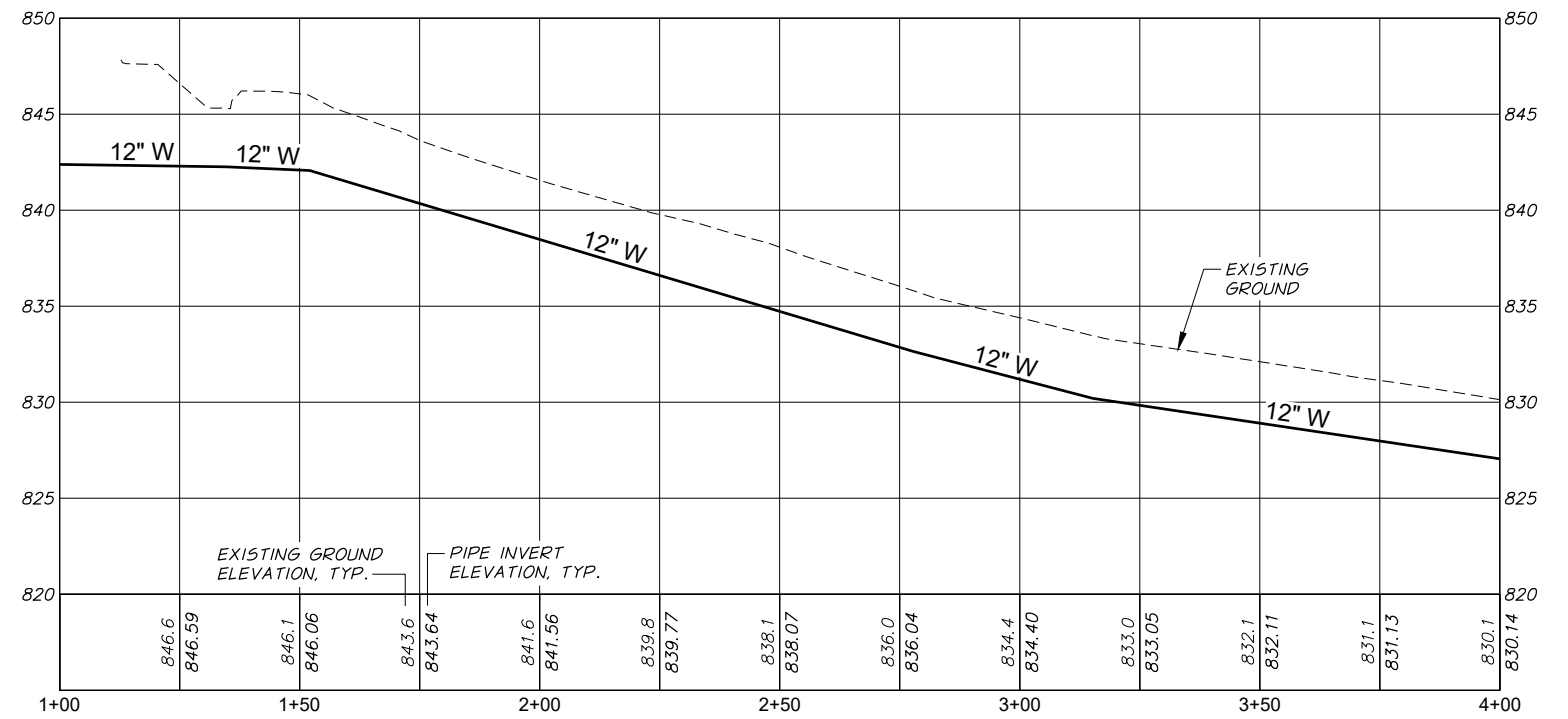
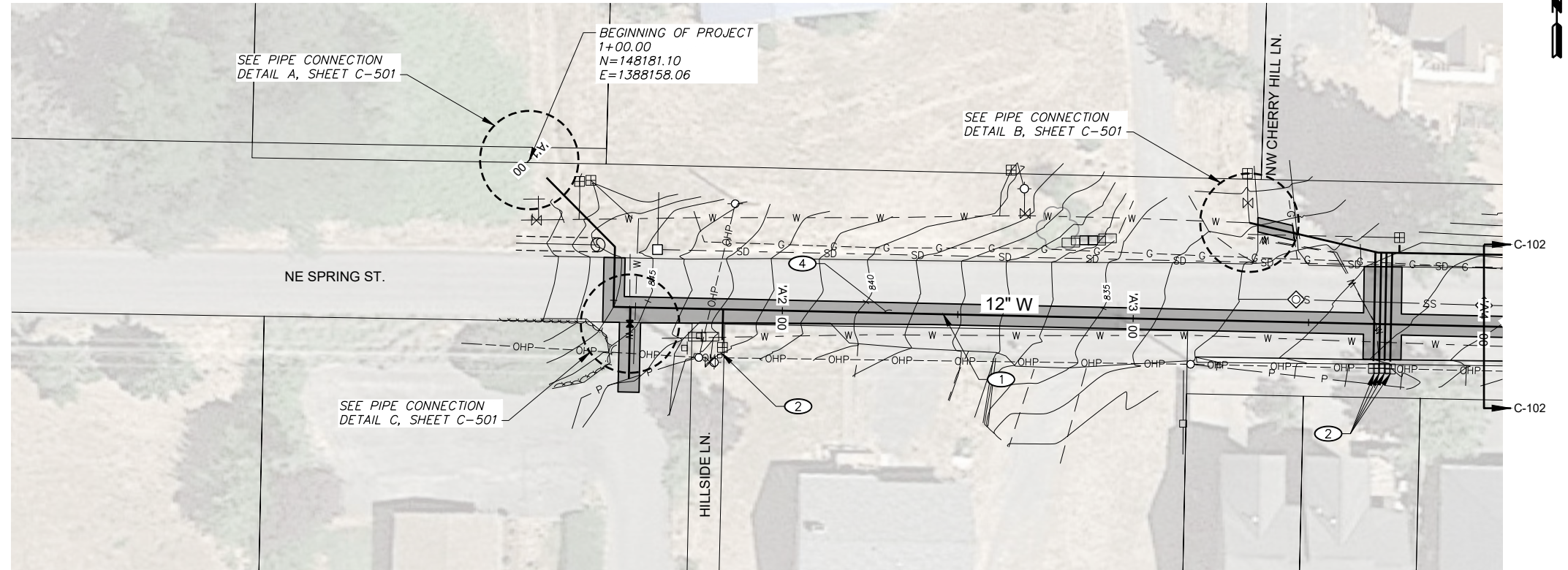
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								CITY OF WHITE SALMON		SHEET	
								N. MAIN - SPRING ST. WATER IMPROVEMENTS		G-002	
								GENERAL NOTES AND ABBREVIATIONS		x OF XX	
REVISION		BY	DATE	JOB NUMBER 250-25		DATE 2023					
DESIGNED BY J. PENINGER				ACAD FILE: 250-25-G-002.dwg							
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SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

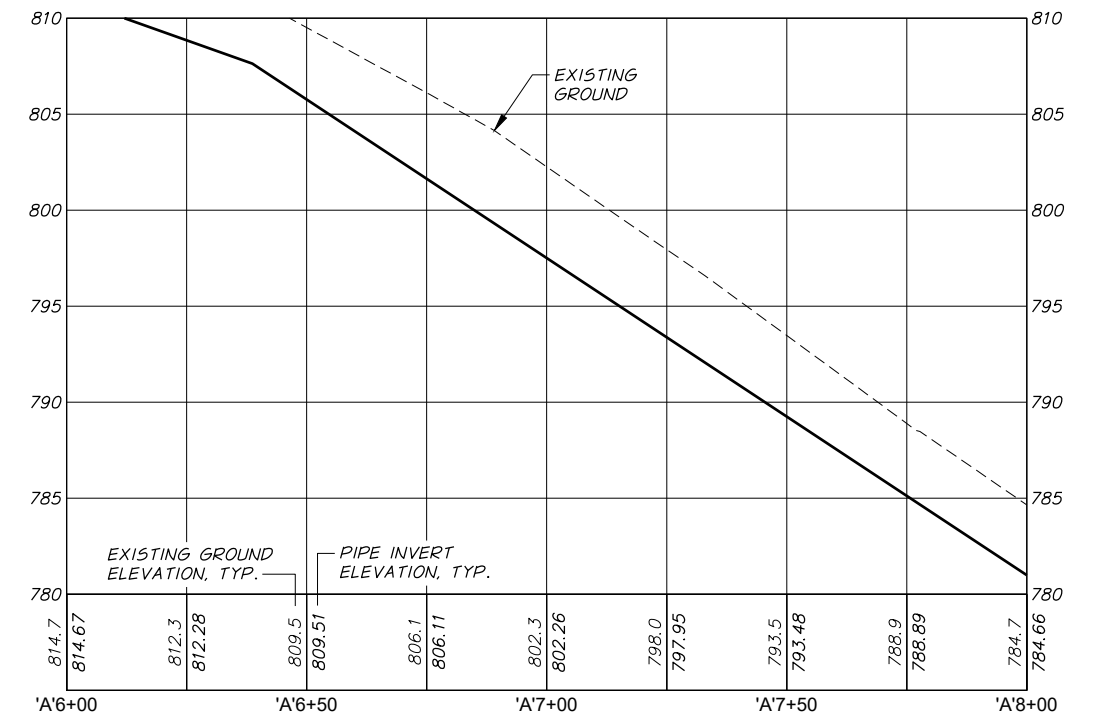
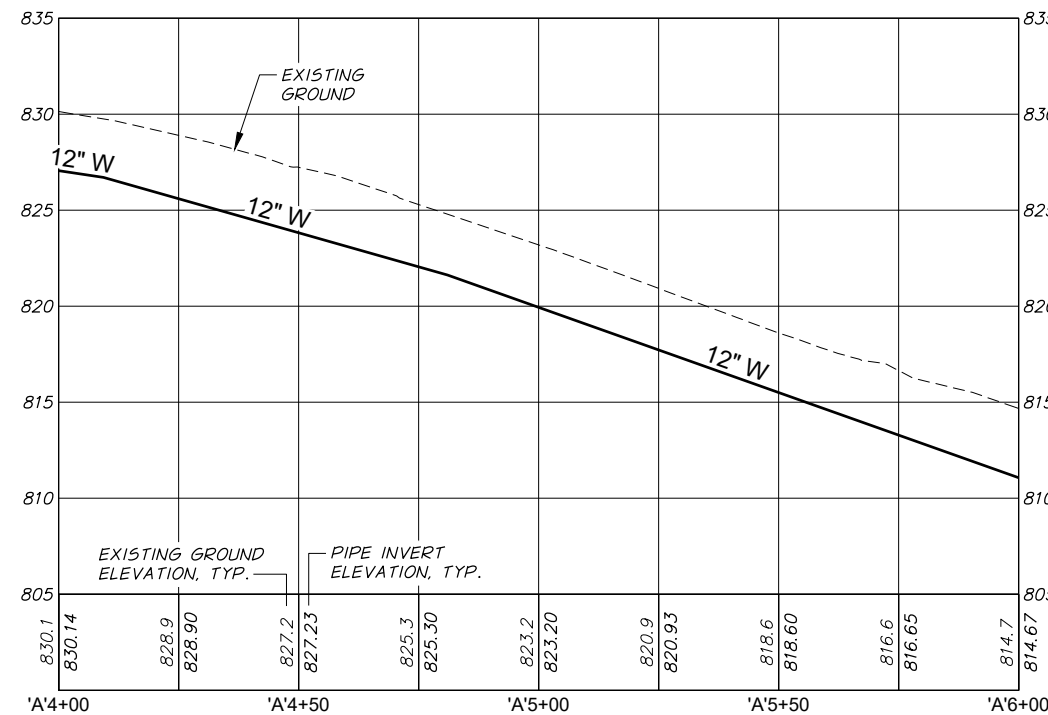
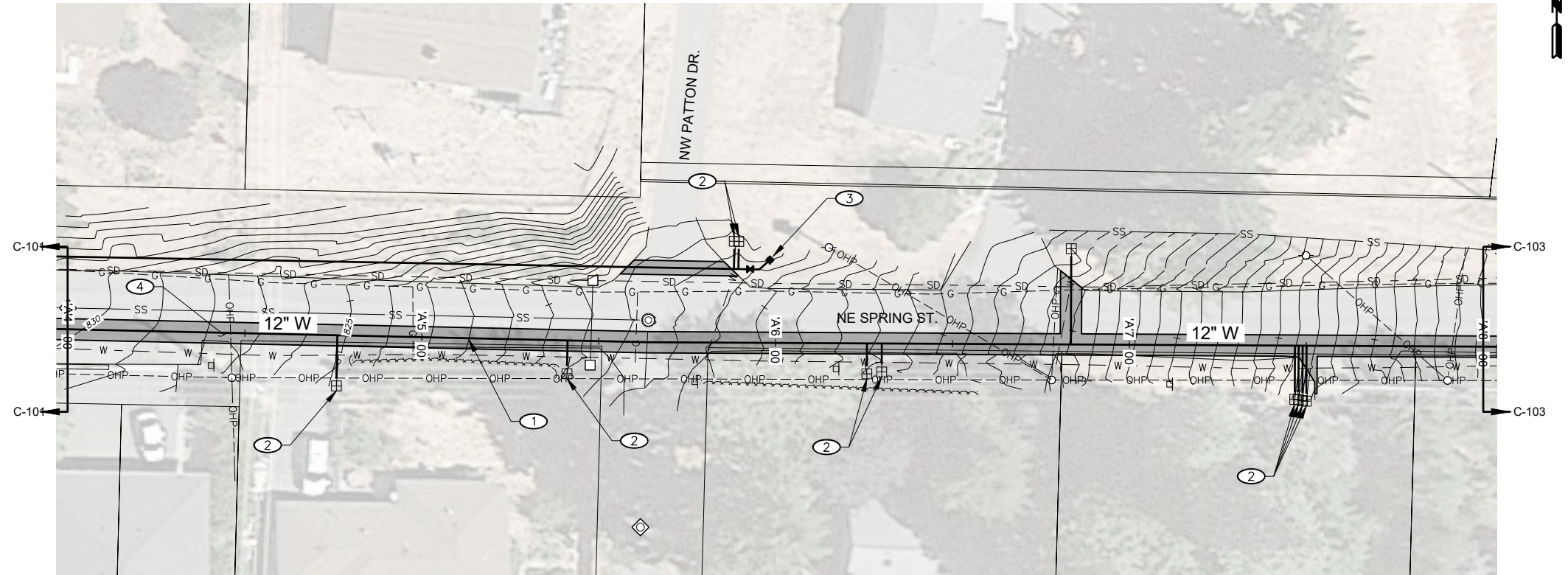


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	 HORIZONTAL SCALE IN FEET	 VERTICAL SCALE IN FEET	PRELIMINARY		CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS	SHEET
REVISION: _____ BY: _____ DATE: _____ DESIGNED BY: J. PENINGER DRAWN BY: G. SAURBIER REVIEWED BY: _____	JOB NUMBER: 250-25 DATE: 2023 ACAD FILE: 250-25-C-101.dwg COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.				C-101 NE SPRING STREET STA. 'A'1+00 TO STA. 'A'4+00 PLAN AND PROFILE	X OF XX

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

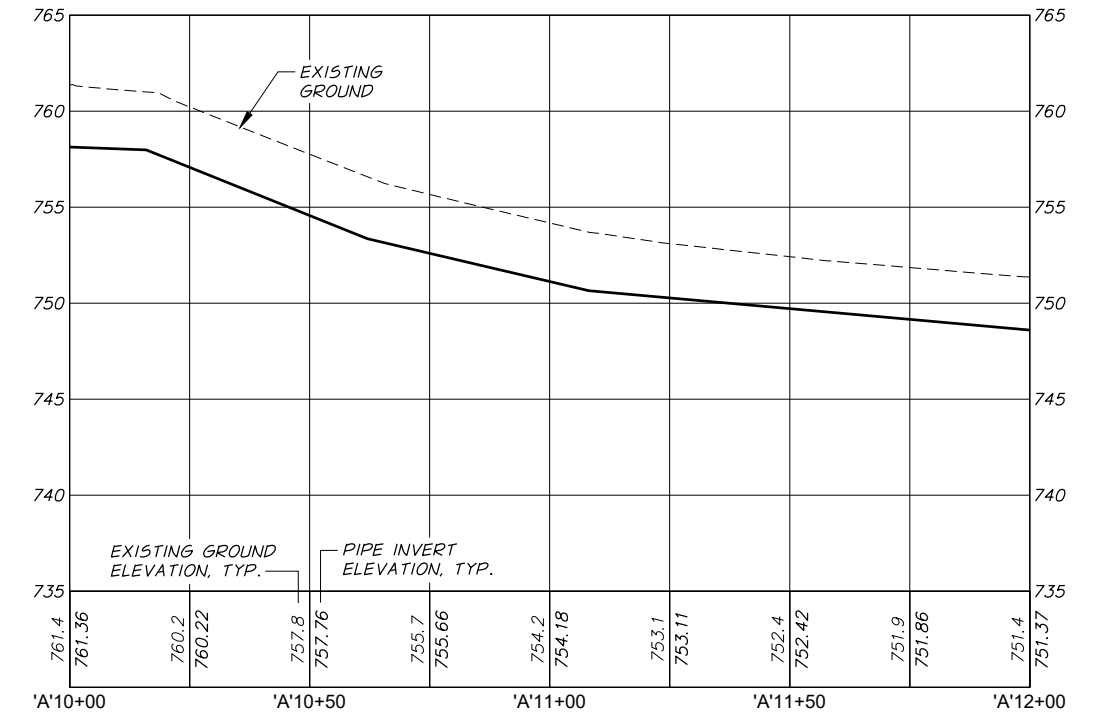
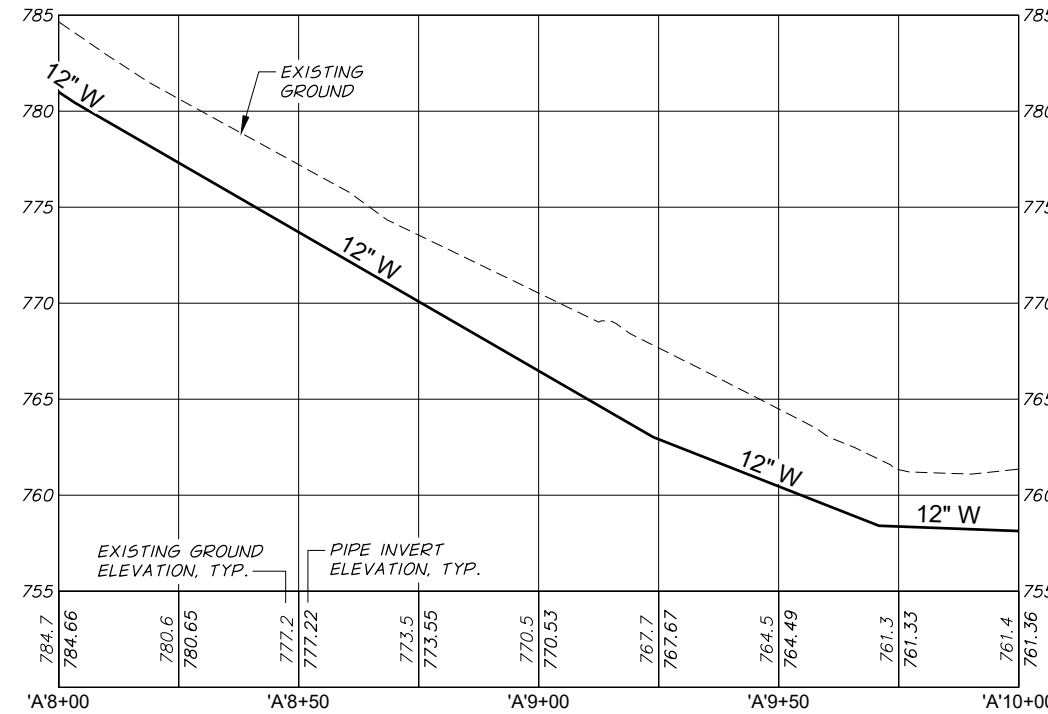
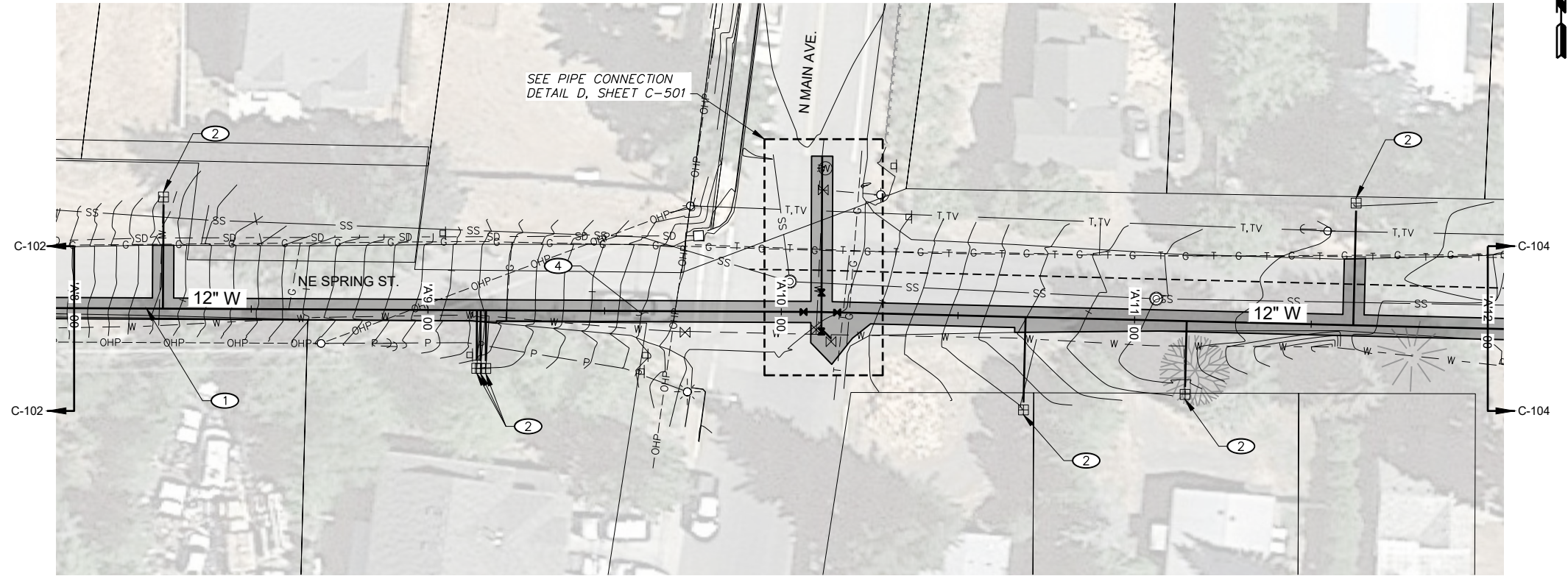


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 HORIZONTAL SCALE IN FEET		<div style="display: flex; justify-content: space-between;"> <div style="font-size: 24pt; font-weight: bold;">PRELIMINARY</div> <div style="font-size: 24pt; font-weight: bold;">anderson perry</div> </div>	CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS	SHEET
 VERTICAL SCALE IN FEET			NE SPRING STREET STA. 'A'4+00 TO STA. 'A'8+00 PLAN AND PROFILE	C-102 X OF XX
REVISION: _____ BY: _____ DATE: _____ DESIGNED BY: J. PENINGER DRAWN BY: G. SAURBIER REVIEWED BY: _____	JOB NUMBER: 250-25 DATE: 2023 ACAD FILE: 250-25-C-102.dwg COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.			

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

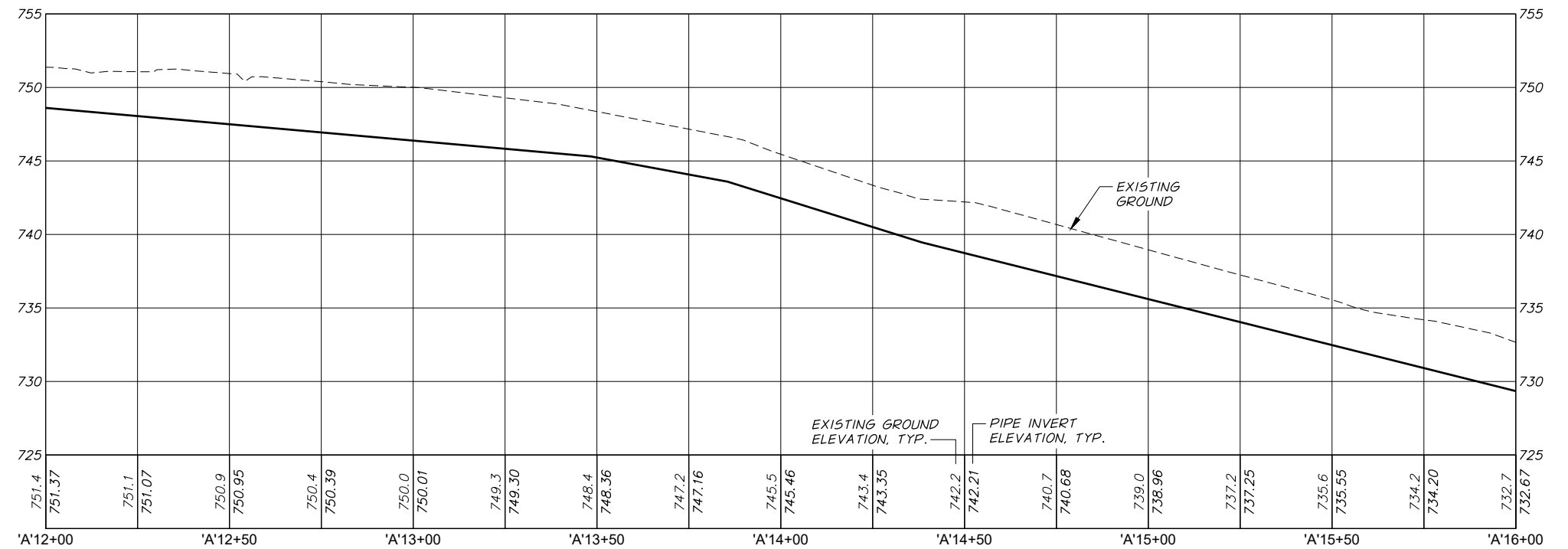
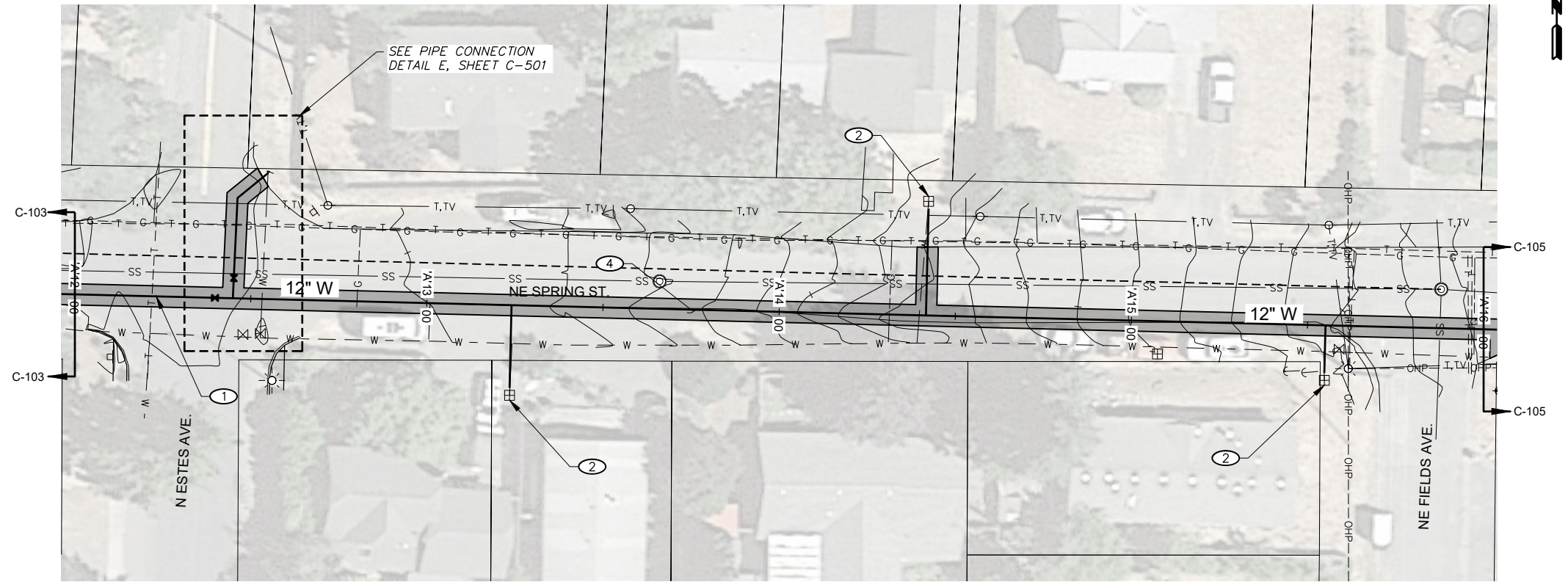


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REVISION	BY	DATE														
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DRAWN BY	G. SAURBIER															
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<p>JOB NUMBER 250-25 DATE 2023</p> <p>ACAD FILE: 250-25-C-103.dwg</p> <p>DESIGNED BY J. PENINGER</p> <p>DRAWN BY G. SAURBIER</p> <p>REVIEWED BY</p>		<p>COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.</p>														

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

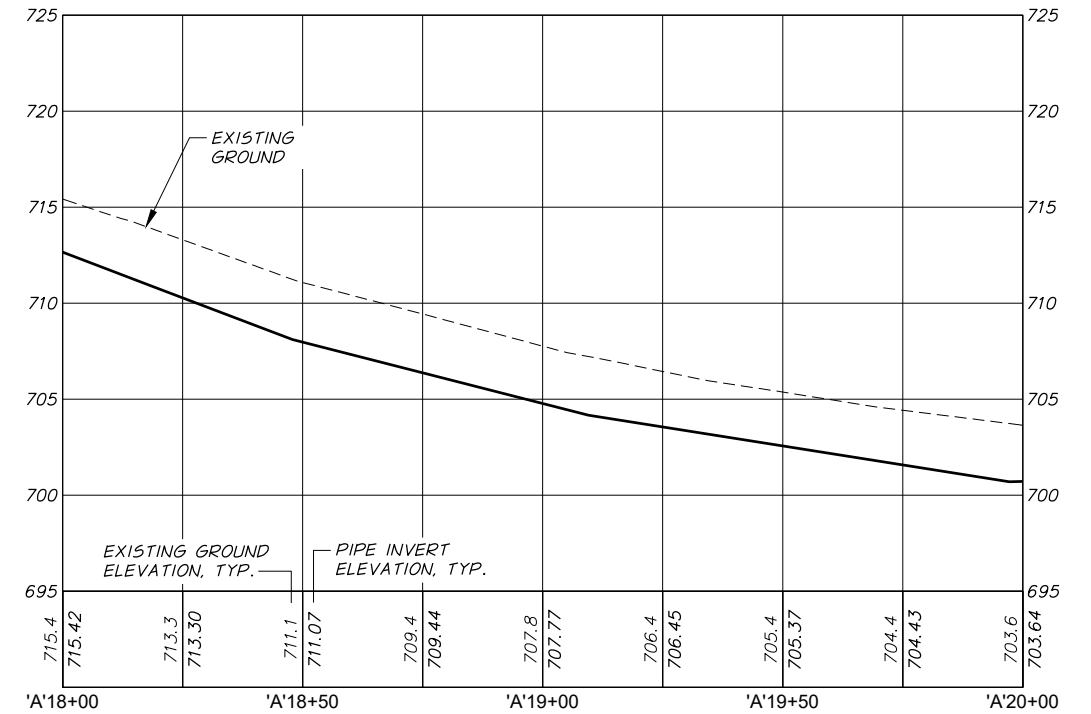
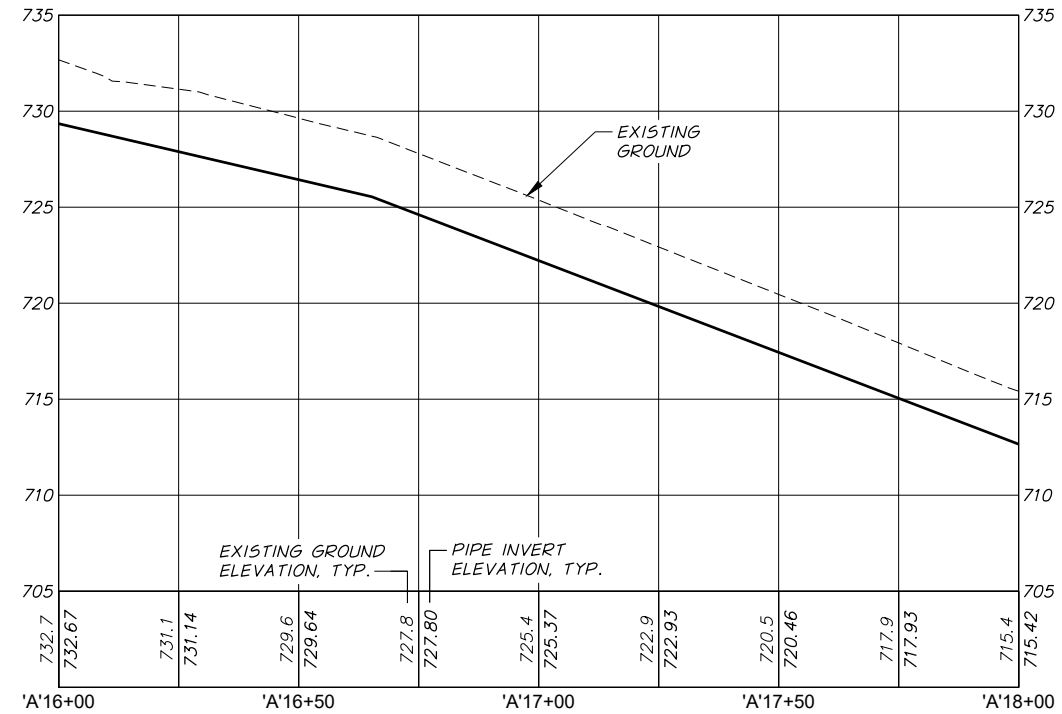
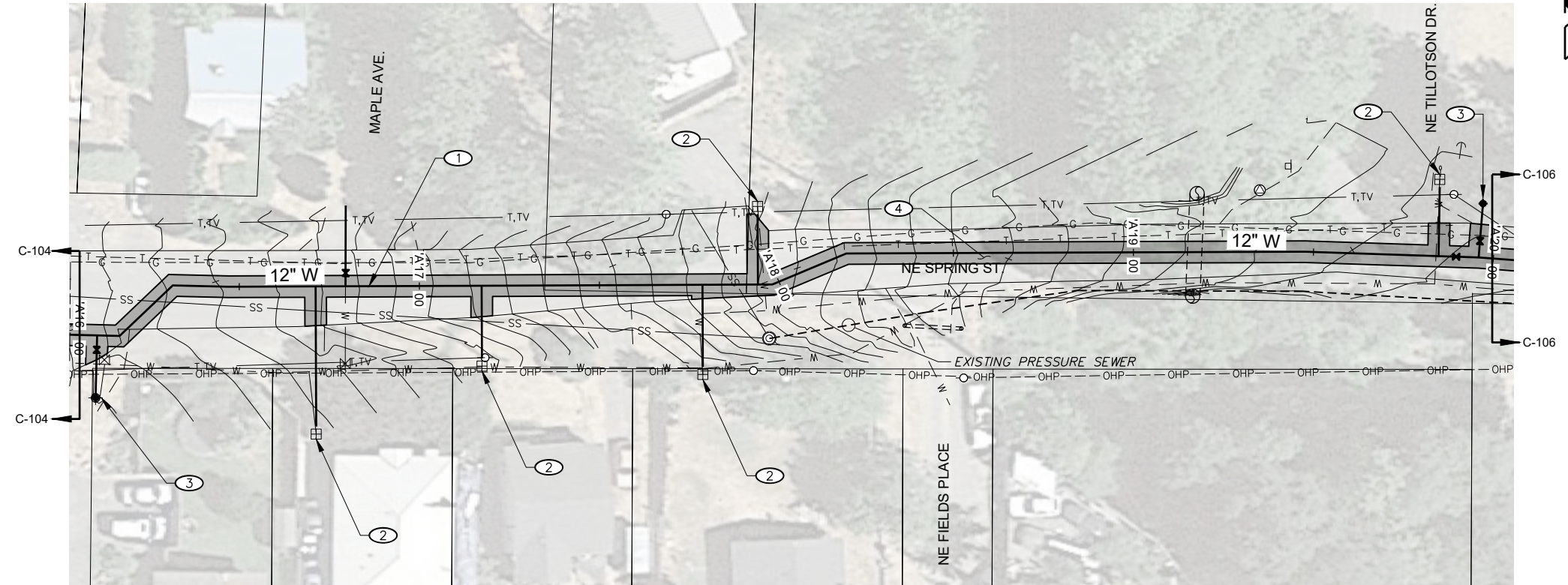


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		 	<p>PRELIMINARY</p>	<p>CITY OF WHITE SALMON</p> <p>N. MAIN - SPRING ST. WATER IMPROVEMENTS</p>	<p>SHEET</p> <p>C-104</p> <p>X OF XX</p>
<p>DESIGNED BY: J. PENINGER</p> <p>DRAWN BY: G. SAURBIER</p> <p>REVIEWED BY:</p>	<p>DATE: 2023</p> <p>ACAD FILE: 250-25-C-104.dwg</p> <p>COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.</p>			<p>NE SPRING STREET</p> <p>STA. 'A'12+00 TO STA. 'A'16+00</p> <p>PLAN AND PROFILE</p>	

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

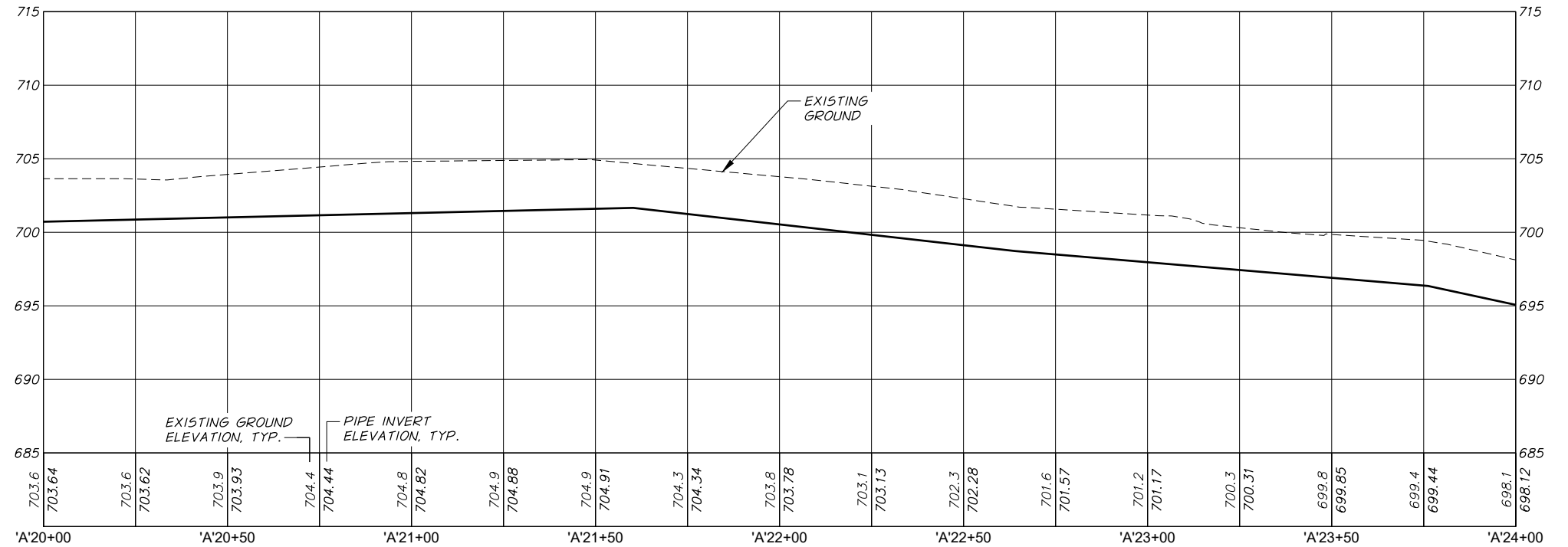
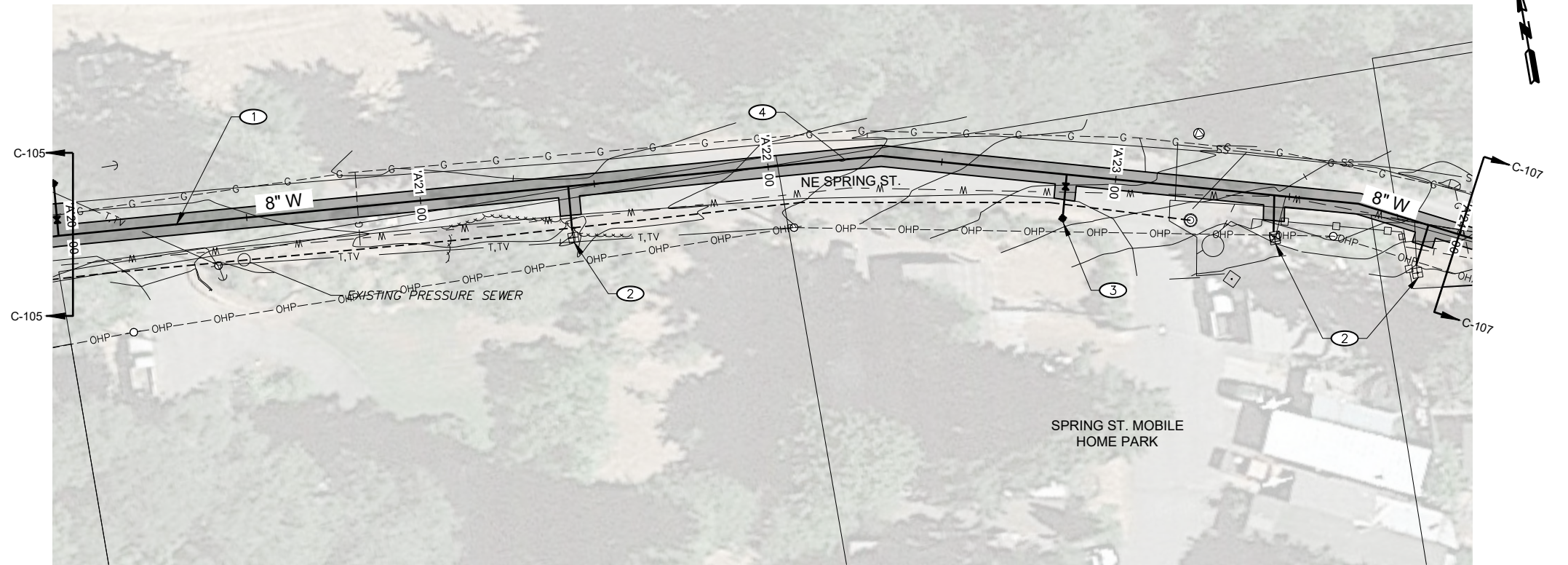


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REVISION	BY	DATE														
DESIGNED BY	J. PENINGER															
DRAWN BY	G. SAURBIER															
REVIEWED BY																
<p>JOB NUMBER 250-25 DATE 2023</p> <p>ACAD FILE: 250-25-C-105.dwg</p> <p>COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.</p>																

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

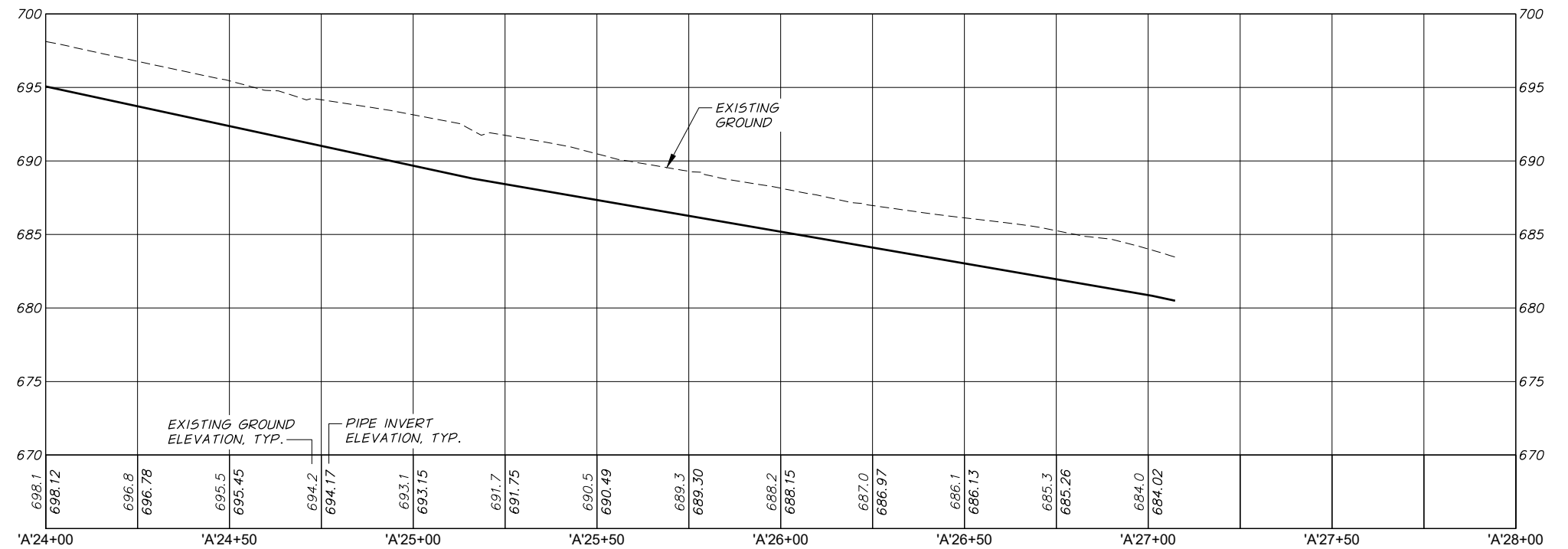
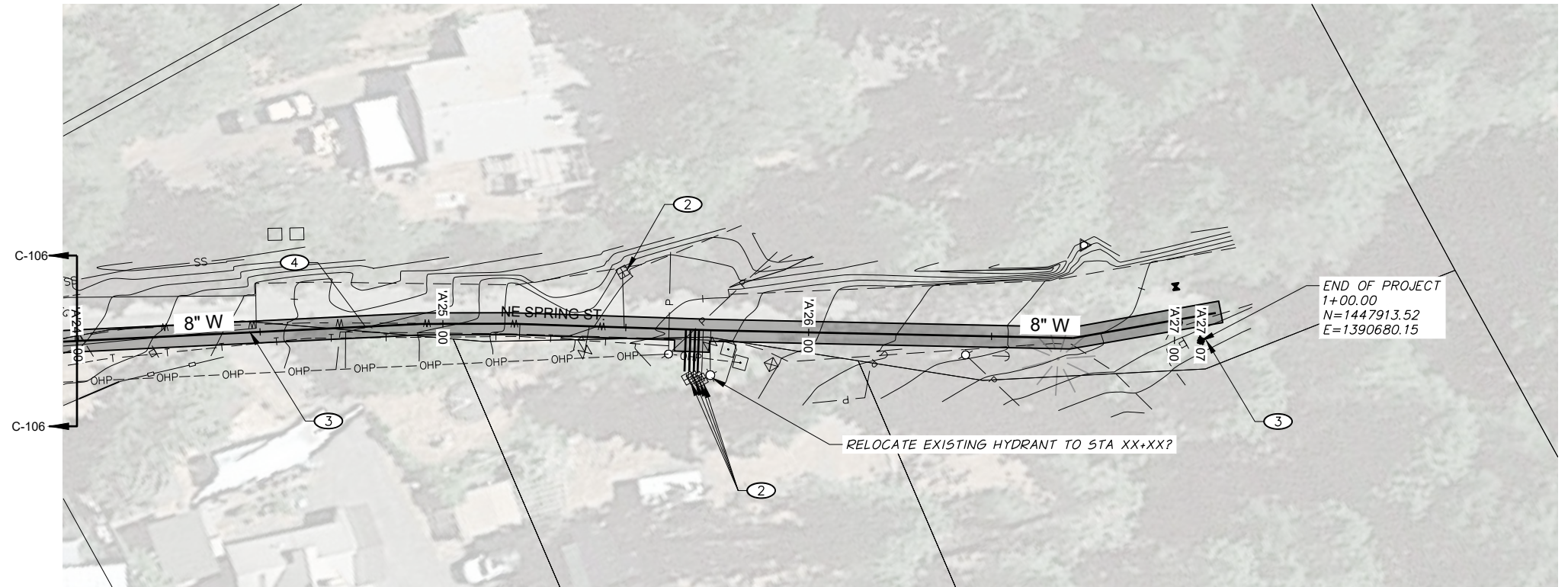


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		 	<p>PRELIMINARY</p>	<p>CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS</p>	<p>SHEET C-106</p>																			
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REVISION	BY	DATE																						
DESIGNED BY: J. PENINGER																								
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JOB NUMBER: 250-25	DATE: 2023																							
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SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2

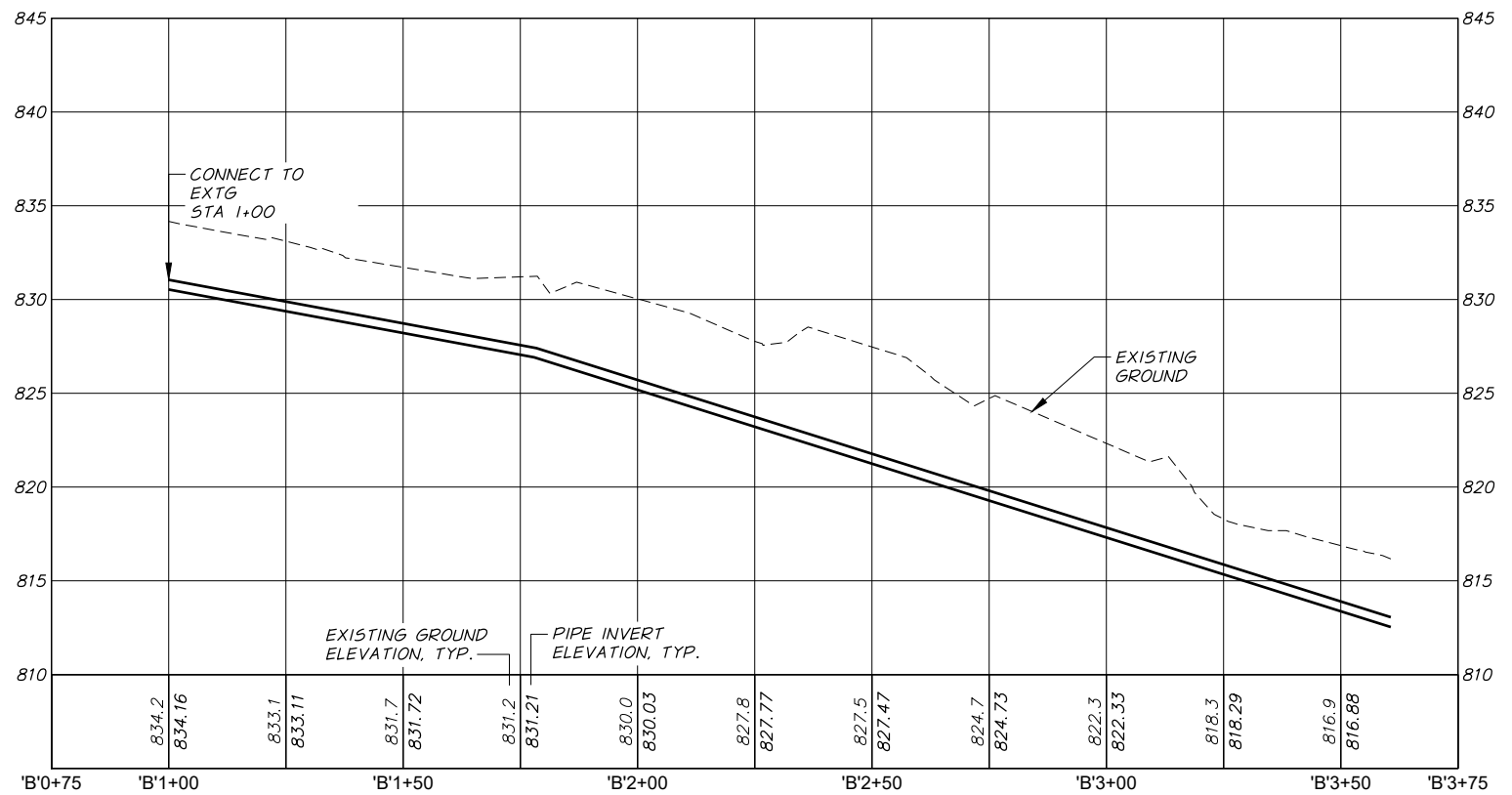
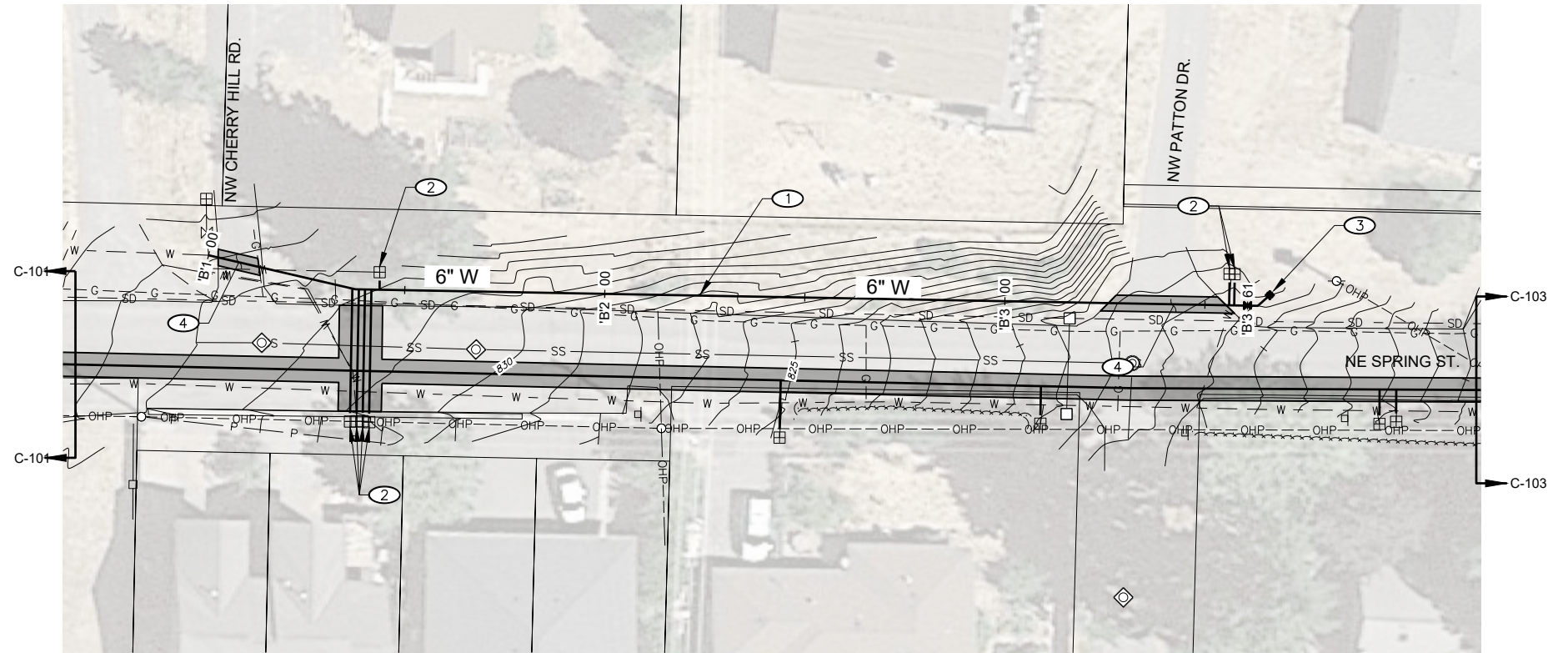


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REVISION	BY	DATE														
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DRAWN BY	G. SAURBIER															
REVIEWED BY																
<p>JOB NUMBER 250-25 DATE 2023</p> <p>ACAD FILE: 250-25-C-107.dwg</p> <p>COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.</p>		<p>NE SPRING STREET STA. 'A' 24+00 TO STA. 'A'27+07 PLAN AND PROFILE</p>														

SHEET KEY NOTES

- ① NEW C900 PVC WATER MAIN, SIZE AS INDICATED, SEE SHEET C-XXX FOR TRENCH SECTIONS, BACKFILL, AND RESTORATION DETAILS
- ② 1" WATER SERVICE LINE PER CITY STANDARD DETAIL PLAN W-D10. CONNECT TO EXISTING METER SETTER.
- ③ FIRE HYDRANT ASSEMBLY PER CITY STANDARD DETAIL W-D3.
- ④ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2



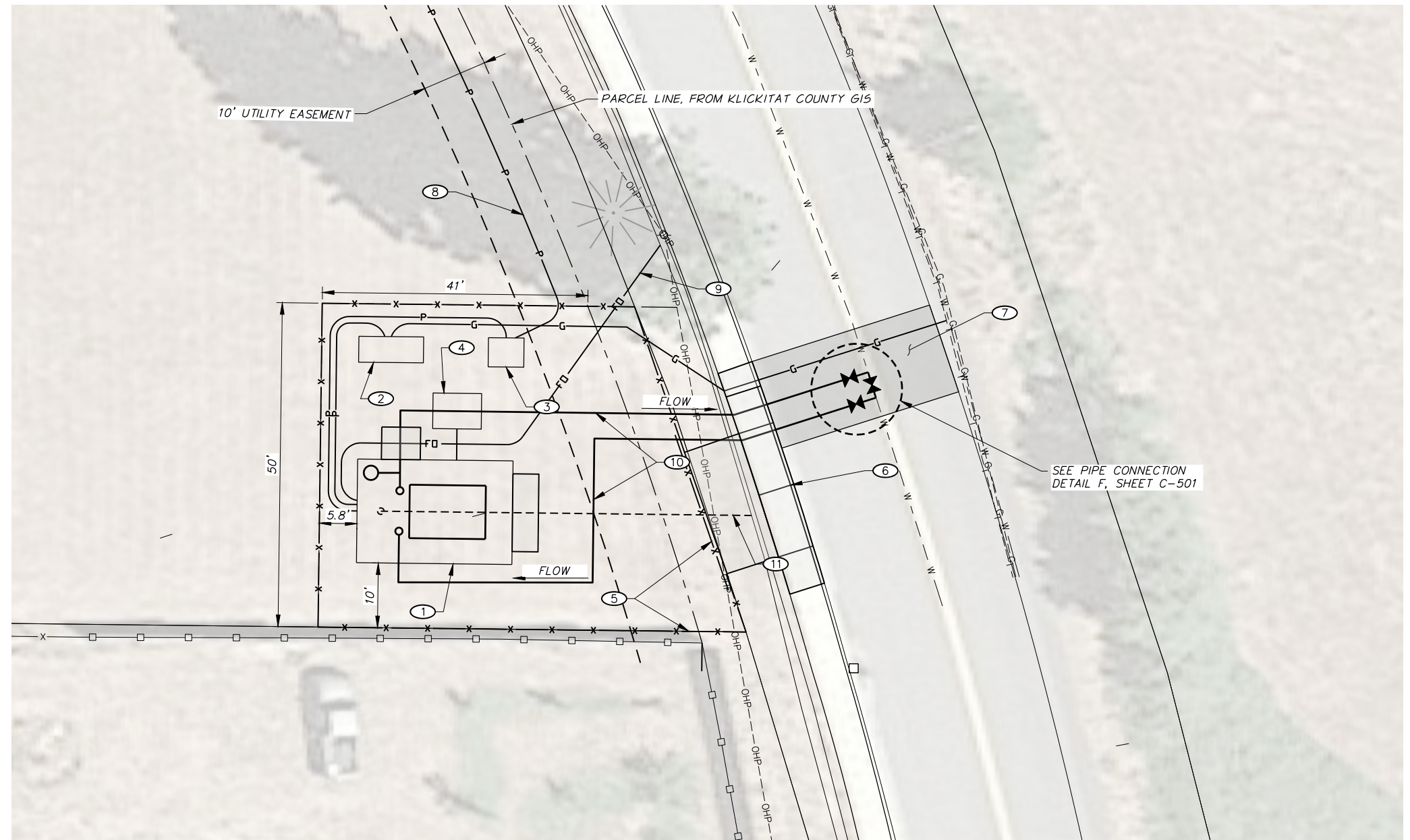
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	<p>HORIZONTAL SCALE IN FEET</p> <p>VERTICAL SCALE IN FEET</p>	<p>PRELIMINARY</p>	<p>CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS</p>	<p>SHEET C-108 --- OF XX</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISION	BY	DATE				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY: J. PENINGER</td> <td>JOB NUMBER: 250-25</td> <td>DATE: 2023</td> </tr> <tr> <td>DRAWN BY: G. SAURBIER</td> <td>ACAD FILE: 250-25-C-108.dwg</td> <td></td> </tr> <tr> <td>REVIEWED BY:</td> <td colspan="2" style="text-align: center;">COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.</td> </tr> </table>	DESIGNED BY: J. PENINGER	JOB NUMBER: 250-25	DATE: 2023	DRAWN BY: G. SAURBIER	ACAD FILE: 250-25-C-108.dwg		REVIEWED BY:	COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.		<p>NE SPRING STREET STA. 'B'1+00 TO STA. 'B'3+61 PLAN AND PROFILE</p>		
REVISION	BY	DATE																	
DESIGNED BY: J. PENINGER	JOB NUMBER: 250-25	DATE: 2023																	
DRAWN BY: G. SAURBIER	ACAD FILE: 250-25-C-108.dwg																		
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SHEET KEY NOTES

- ① 16' x 24' CMU BOOSTER PUMP STRUCTURE
- ② NATURAL GAS BACKUP GENERATOR
- ③ ELECTRICAL TRANSFORMER
- ④ FLOW METER VAULT
- ⑤ SECURITY FENCE AND VEHICLE ACCESS GATE
- ⑥ 20' DRIVEWAY PER CITY STANDARD PLAN 1-3
- ⑦ PAVEMENT RESTORATION PER CITY STANDARD PLAN 1-2, FOR ARTERIAL TRUCK ROUTE
- ⑧ ELECTRICAL SERVICE LINE
- ⑨ COMMUNICATION SERVICE LINE
- ⑩ 8" PVC WATER LINE
- ⑪ 4" PVC SANITARY SEWER LINE, TO BE CONNECTED TO MAIN EXTENSION SERVING FOUR OAKS SUBDIVISION.

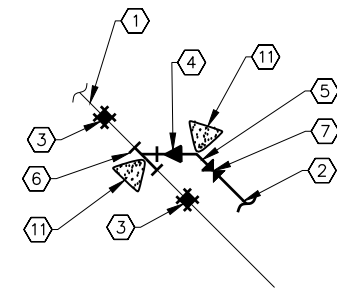


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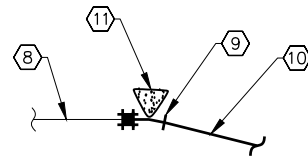
		<p>HORIZONTAL SCALE IN FEET</p>	<p>PRELIMINARY</p>	<p>CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS</p> <p>N. MAIN AVENUE BOOSTER PUMP SITE PLAN</p>	<p>SHEET</p> <p>C-110</p> <p>--- OF XX</p>								
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DRAWN BY G. SAURBIER	ACAD FILE: 250-25-C-110.dwg												
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FITTING SCHEDULE

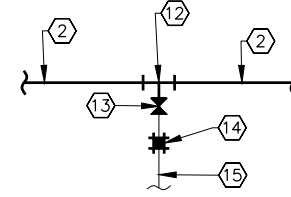
- 1 EXTG 10" PIPE
- 2 12" PIPE
- 3 10" RESTRAINED TRANSITION COUPLING
- 4 10"x12" FLG REDUCER
- 5 12" 45° FLGxFLG BEND
- 6 10" MJxFLG WYE
- 7 12" BUTTERFLY VALVE
- 8 EXTG 6" PIPE
- 9 6" 11.25° MJxMJ BEND
- 10 NEW 6" PVC PIPE
- 11 NEW THRUST BLOCK, SEE SHEET C-XXX FOR DETAILS
- 12 8"x12" TEE
- 13 8" FLGxMJ BUTTERFLY VALVE
- 14 8" RESTRAINED TRANSITION COUPLING
- 15 EXTG 8" PIPE
- 16 12" FLG CROSS
- 17 12"x8" REDUCER
- 18 8" GATE VALVE
- 19 3" HDPE PIPE
- 20 EXTG 3" GATE VALVE
- 21 6" RESTRAINED TRANSITION COUPLING
- 22 8"x6" REDUCER
- 23 8" 45° MJ BEND
- 24 8" PIPE
- 25 8" FLGxMJ VALVE
- 26 8" FLGxFLGxMJ TEE
- 27 12"x8" MJxFLG



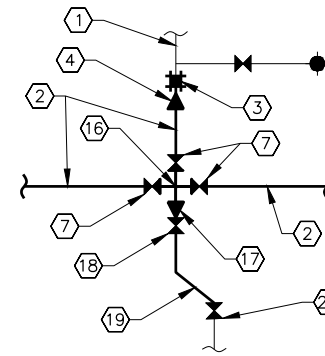
A SECTION
C-101 N.T.S.



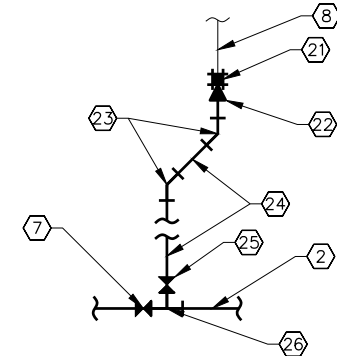
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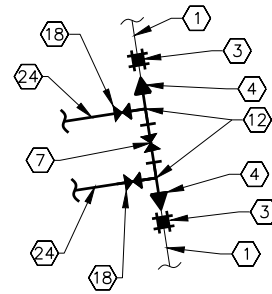
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C-101 N.T.S.



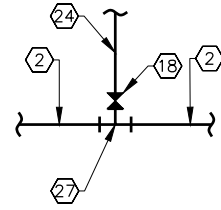
D SECTION
C-103 N.T.S.



E SECTION
C-104 N.T.S.



F SECTION
C-108 N.T.S.



G Section
C-105 N.T.S.

X:\Clients\White Salmon WA\250-25 N Main-Spring St Water Improvements\CAD\250-25-C-501.dwg, Layout1, 9/15/2023 1:46 PM, jpeninger

				PRELIMINARY		CITY OF WHITE SALMON N. MAIN - SPRING ST. WATER IMPROVEMENTS	SHEET C-501
DESIGNED BY: J. PENINGER DRAWN BY: G. SAURBIER REVIEWED BY:		JOB NUMBER: 250-25 ACAD FILE: 250-25-C-501.dwg COPYRIGHT 2023 BY ANDERSON PERRY & ASSOC., INC.	DATE: 2023	anderson perry		WATER DETAILS	--- OF XX



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Washington Fish And Wildlife Office
510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263
Phone: (360) 753-9440 Fax: (360) 753-9405

In Reply Refer To:
Project Code: 2023-0095763
Project Name: White Salmon WSI

June 20, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Washington Fish And Wildlife Office

510 Desmond Drive Se, Suite 102

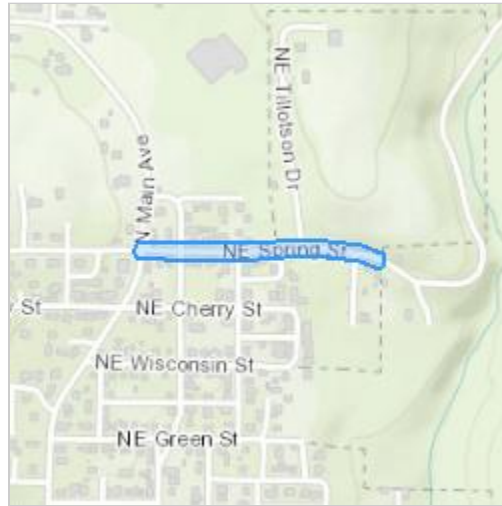
Lacey, WA 98503-1263

(360) 753-9440

PROJECT SUMMARY

Project Code: 2023-0095763
Project Name: White Salmon WSI
Project Type: Water Supply Facility - Maintenance / Modification
Project Description: Water system improvements
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@45.735193499999994,-121.481698506594,14z>



Counties: Klickitat County, Washington

ENDANGERED SPECIES ACT SPECIES

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

BIRDS

NAME	STATUS
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

FISHES

NAME	STATUS
Bull Trout <i>Salvelinus confluentus</i> Population: U.S.A., conterminous, lower 48 states There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8212	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: White Salmon city
Name: Patrick Blair
Address: 1901 N. Fir Street
City: La Grande
State: OR
Zip: 97850
Email: pblair@andersonperry.com
Phone: 5419638309

LEAD AGENCY CONTACT INFORMATION

Lead Agency: State of Washington





Forest Practices Application Mapping Tool (FPAMT)

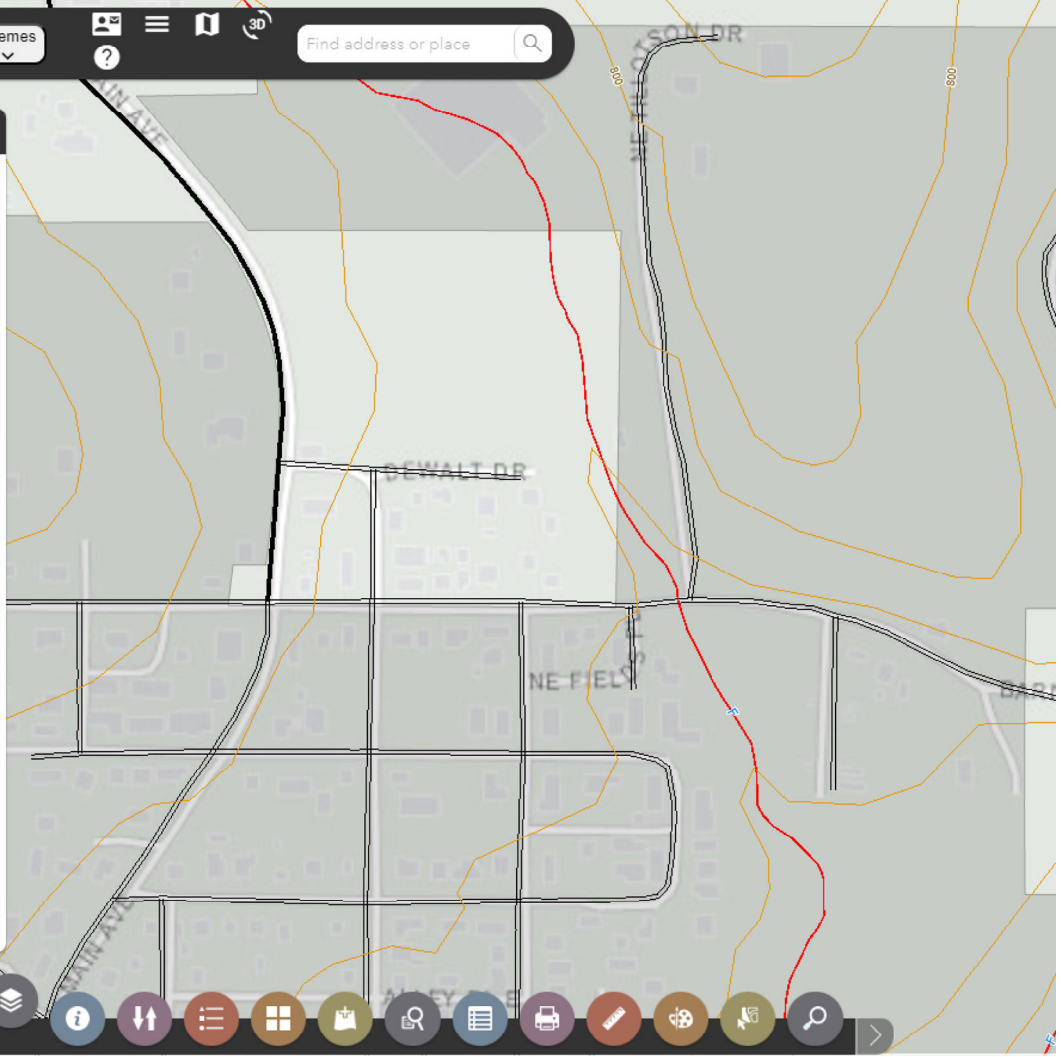
Themes

Find address or place

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- Trails & Railroads (FP) ☰
- Water Courses (FP) ☰
- Water Bodies (FP) ☰
- 40-foot Contours ☰
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- County Boundaries ☰
- County Tax Parcels ☰
- City and Urban Growth Area Boundaries ☰
- ▼ Fish Barrier Status**
- Road Maintenance Points (FP-RMAP) ☰
- SFLO Road Maintenance Points (FP-RMAP) ☰
- Family Forest Fish Passage Project (FFFPP) ☰
- > WDFW FPDSI**
- > My Data**
- > Basemap**

[Water Type Definitions and Viewing Guide](#)
[Tribal Cultural Resources Contacts](#)



Map navigation toolbar containing icons for:
 - Layers (stack of squares)
 - Information (i)
 - Home (house)
 - Full Screen (four squares)
 - Print (printer)
 - Measure (ruler)
 - Rotate (circular arrow)
 - Search (magnifying glass)



Priority Habitats and Species on the Web



Buffer radius: 10 Feet

Report Date: 06/30/2023

PHS Species/Habitats Overview:

Occurrence Name	Federal Status	State Status	Sensitive Location
Summer Steelhead	N/A	N/A	No
Resident Coastal Cutthroat	N/A	N/A	No
Coho	N/A	N/A	No
Winter Steelhead	N/A	N/A	No
Rainbow Trout	N/A	N/A	No
Mule and black-tailed deer	N/A	N/A	No
Freshwater Forested/Shrub Wetland	N/A	N/A	No
Oak/Pine Mixed Forest	N/A	N/A	No
California mountain kingsnake	N/A	Candidate	Yes
Northern Spotted Owl	Threatened	Endangered	Yes

PHS Species/Habitats Details:

Summer Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1214767457316, Fish Name: Steelhead Trout, Run Time: Summer, Life History: Anadromous
Source Record	11496
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Resident Coastal Cutthroat	
Scientific Name	<i>Oncorhynchus clarki</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1214767457316, Fish Name: Cutthroat Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	11493
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1214767457316, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	11494
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Winter Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1214767457316, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	11497
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A

PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Rainbow Trout	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1214767457316, Fish Name: Rainbow Trout, Run Time: Unknown or not Applicable, Life History: Resident
Source Record	11495
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Mule and black-tailed deer	
Scientific Name	<i>Odocoileus hemionus</i>
Priority Area	Regular Concentration
Site Name	BIG WHITE SALMON DEER WINTER RANGE
Notes	BLACK-TAILED DEER WINTER RANGE-DEER POPULATION INCREASES NOTICABLY DURING THE WINTER MONTHS ALONG MAIN RIVER CORRIDORS AND TRIBUTORIES.
Source Record	905006
Source Dataset	PHSREGION
Source Name	BICKNELL, BOB WDW
Source Entity	WA Dept. of Fish and Wildlife
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS LISTED OCCURRENCE
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00612
Geometry Type	Polygons

Freshwater Forested/Shrub Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Forested/Shrub Wetland - NWI Code: PFO1A
Source Dataset	NWIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html
Geometry Type	Polygons

Oak/Pine Mixed Forest	
Priority Area	Terrestrial Habitat
Site Name	N/A
Accuracy	NA
Notes	Oak/Pine Mixed Forest with 25 to 75% canopy Closure.
Source Dataset	KlicOak
Source Name	Not Given
Source Entity	WDFW Wildlife Program
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS LISTED OCCURRENCE
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00030
Geometry Type	Polygons

California mountain kingsnake	
Scientific Name	<i>Lampropeltis zonata</i>
Notes	This polygon mask represents one or more records of the above species or habitat occurrence. Contact PHS Data Release at pdsproducts@dfw.wa.gov for obtaining information about masked sensitive species and habitats.
State Status	Candidate
PHS Listing Status	PHS Listed Occurrence
Sensitive	Y
SGCN	Y
Display Resolution	QTR-TWP
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00025

Northern Spotted Owl	
Scientific Name	<i>Strix occidentalis</i>
Notes	This polygon mask represents one or more records of the above species or habitat occurrence. Contact PHS Data Release at pdsproducts@dfw.wa.gov for obtaining information about masked sensitive species and habitats.
Federal Status	Threatened
State Status	Endangered
PHS Listing Status	PHS Listed Occurrence
Sensitive	Y
SGCN	Y
Display Resolution	TOWNSHIP
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00026

DISCLAIMER. This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.