



CITY COUNCIL MEETING AGENDA

February 19, 2025 at 5:30 PM

Council Chambers at City Hall - 1123 W. Lake St. Sandpoint, Idaho

Call to Order

Roll Call

Pledge of Allegiance

Announcements and Reports

Public Comments

Consent Calendar - action item

1. Approval of the Minutes from Council's February 5, 2025, Regular Meeting - **action item**
2. Payables Report / Bills for Payment Approval - **action item**

Old/Unfinished Business - none

New Business

3. Presentation: FY2025 First Quarter Financial Report Review
4. Presentation: Update on Cedar Street Reconstruction Project Preliminary Design
5. Proposed Resolution: LHTAC/Local Agreement 2024 Local Children Pedestrian Safety (CPS) Program Division Avenue Corridor Safety Improvement Project, Phase 2, City of Sandpoint CPS#24 - **action item**
6. Proposed Resolution: Accepting the Preliminary Design for Rehabilitation of the Downtown Parking Lot and Authorizing Staff to Transition the Project to the Final Design Stage and Advertise for Bids - **action item**

Adjourn

Public Participation Options and Information

Before the meeting, comment in writing: Email cityclerk@sandpointidaho.gov or deliver to City Hall.
Attend in person: See above for meeting location. Seating available on first-come, first-served basis.
Attend remotely: Register at <https://www.sandpointidaho.gov/meetings>.
After the meeting, view the recording on YouTube: <https://www.youtube.com/c/CityofSandpoint>.
For questions or requests for special accommodation: At least 48 hours prior to the meeting, send a message to the email address above or call (208) 263-3310.



CITY COUNCIL MEETING MINUTES

February 05, 2025 at 5:30 PM

Council Chambers at City Hall - 1123 W. Lake St. Sandpoint, Idaho

Call to Order

Mayor Jeremy Grimm called the regular meeting of the Sandpoint City Council to order at 5:30 p.m. on Wednesday, February 5, 2025, in Council chambers at City Hall, 1123 West Lake Street, Sandpoint, Idaho.

Roll Call

PRESENT

Mayor Jeremy Grimm
 Councilor Deb Ruehle, City Council President
 Councilor Joel Aispuro
 Councilor Justin Dick
 Councilor Kyle Schreiber
 Councilor Pam Duquette
 Councilor Rick Howarth

Pledge of Allegiance

Mayor Grimm led all present in the Pledge of Allegiance.

Announcements and Reports

Mayor Grimm reported that an amendment to the agenda was proposed and an amended agenda was posted earlier in the day, adding a topic for discussion under executive session. Because the amendment was made less than 48 hours prior to the meeting, pursuant to Idaho Code Section 74-204(4)(b), before the amended agenda could become effective, Council would need to vote to accept the amendment.

Motion made by Councilor Aispuro, Seconded by Councilor Dick.

Voting Yea: Councilor Ruehle, Councilor Aispuro, Councilor Dick, Councilor Schreiber, Councilor Duquette, Councilor Howarth

The Mayor expressed appreciation to the public for adhering to the winter parking rules and to Arts and Historic Preservation Planner Heather Upton for arranging for the new historical informational panels and permanent meeting rules sign installed in the chambers lobby. He also provided brief updates on plans for improvements to the downtown parking lot, Phase 3 of the downtown rehabilitation project, the City's applications for Consolidated Rail Infrastructure and Safety Improvements (CRISI) Program grants which were not awarded for funding assistance for Great Northern Road improvements, and short-term rental regulation legislation. He announced Wastewater Treatment Plant project open houses scheduled in Council chambers, noon to 1:00pm on Thursdays, beginning February 6; additional information on the City website. The Mayor reported that staff has started work on the FY2026 budget, and he addressed information that had been relayed in a letter to the editor regarding City taxation, as well as information circulating on social media regarding proposed changes to the City's parking management policies. The Mayor encouraged the public to visit the City website in order to obtain accurate information on City projects and other activities and to contact the Mayor or staff for with any questions. The "subscribe" feature on the City's new website has been enhanced to include the opportunity to subscribe for email notification when news or new meeting agendas are posted.

Council members provided reports from recent meetings of the citizen advisory boards on which they serve as Council liaison. Kudos from Council President Ruele on the fun new artwork gracing the City snowplow blades and to the snowplow drivers for their good work.

1. At the invitation of the Mayor, Department Directors provided reports on projects and activities in their respective departments.

Public Comments

Mayor Grimm recited the rules and procedure for public comment, followed by an opportunity for comments from the public regarding Consent Calendar and Old/New Business items on the agenda and other topics relevant to the business of the City of Sandpoint. Information only; no Council action.

Consent Calendar

Mayor Grimm noted for the record the amount of bills presented for payment approval, followed by a motion to approve the Consent Calendar.

Motion made by Councilor Ruele, Seconded by Councilor Aispuro.

Voting Yea: Councilor Ruele, Councilor Aispuro, Councilor Dick, Councilor Schreiber, Councilor Duquette, Councilor Howarth

2. The minutes from Council's January 15, 2025, Regular Meeting were approved as presented.
3. Bills in the amount of \$2,572,290.30, reflecting \$1,463,637.37 for regular payables and \$1,100,889.70 for payroll, were approved for payment.
4. The Monthly Financial Report on Cash and Investment Transactions, September 2024, was accepted.
5. The Monthly Financial Report on Cash and Investment Transactions, October 2024, was accepted.
6. The Monthly Financial Report on Cash and Investment Transactions, November 2024, was accepted.
7. The Monthly Financial Report on Cash and Investment Transactions, December 2024, was accepted.
8. Resolution 25-008 Authorizing a Grant Application to the Idaho State Homeland Security Program for Grant Funding to Allocate toward the Purchase of an Air Compressor for Fire Department Self-Contained Breathing Apparatus - approved

Old/Unfinished Business - none

New Business - none

Executive Session

9. Council voted to convene in Executive Session pursuant to Idaho Code § 74-206(1)(c) to acquire an interest in real property not owned by a public agency and Idaho Code § 74-206(1)(d) to consider records that are exempt from disclosure as provided in chapter 1, title 74, Idaho Code.

Motion made by Councilor Dick, Seconded by Councilor Schreiber.

Voting Yea: Councilor Ruele, Councilor Aispuro, Councilor Dick, Councilor Schreiber, Councilor Duquette, Councilor Howarth

10. The executive session was held as noted above.

Adjourn

Following conclusion of the executive session, the regular meeting was reconvened and immediately adjourned at 7:35 p.m.

I presided over this meeting and can confirm that the foregoing minutes, prepared by the City Clerk, were approved by City Council during their meeting held _____, 2025.

Jeremy Grimm, Mayor

Attest: Melissa Ward, City Clerk



CITY OF SANDPOINT INVOICE REGISTER
PAYABLE DATES OF: 02/06/2025 THROUGH 02/19/2025

Item # 2.

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invoice Amount
Vendor: 95 EXPRESS LLC				
1084	MNTHLY CAR WASH MEMB FEB'25 - POLICE & FIRE POLICE DEPARTMENT	SERVICES - AUTOMOTIVE - R&M	585.00	\$607.50
	FIRE DEPARTMENT - SANDPOINT	SERVICES - AUTOMOTIVE - R&M	22.50	
			Total For: 95 EXPRESS LLC	\$607.50
Vendor: ACCURATE TESTING LABS LLC				
144067	WWTP: ORGANIC CARBON TESTING WASTEWATER TREATMENT	TECH SERVICES - LABORATORY	90.00	\$90.00
			Total For: ACCURATE TESTING LABS LLC	\$90.00
Vendor: ALPINE MOTORS COMPANY INC				
161027	LOF, REPLACE WATER PUMP SPD 17 POLICE DEPARTMENT	SERVICES - AUTOMOTIVE - R&M	505.52	\$505.52
161043	LOF SERVICE/CHECK ENGINE DIAGNOSTIC POLICE DEPARTMENT	SERVICES - AUTOMOTIVE - R&M	558.73	\$558.73
			Total For: ALPINE MOTORS COMPANY INC	\$1,064.25
Vendor: ALSC ARCHITECTS PS				
2023-011-21	TRAVERS PARK RENO DSGN SVCS -NOV 24 JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	10,058.75	\$10,542.74
	JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	483.99	
2023-011-22	TRAVERS PARK DSGN SRVCS THRU 12/31/24 JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	7,608.50	\$7,959.00
	JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	350.50	
2023-011-23	TRAVERS PARK RENO DSGN SVCS - CLOSEOUT JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	760.85	\$823.42
	JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	62.57	
			Total For: ALSC ARCHITECTS PS	\$19,325.16
Vendor: ANATEK LABS INC				
2430383	WWTP: PCB CHEMICAL TESTING WASTEWATER TREATMENT	TECH SERVICES - LABORATORY	2,895.00	\$2,895.00
			Total For: ANATEK LABS INC	\$2,895.00

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.	t
Vendor: APSCO INC					
24628	WWTP: V BELT SET FOR KAESER 100HP BLOWER WASTEWATER TREATMENT	VEHICLE & MACH SUPPLIES/PARTS	608.85		\$608.85
			Total For: APSCO INC		\$608.85
Vendor: ASAP SERVICES INC					
2256179	MONTHLY CUSTODIAL SERVICE - DEC 2024 GOVERNMENT BUILDING & GROUNDS DIVISION	SERVICES - CUSTODIAL	2,240.00		\$4,630.00
	GOVERNMENT BUILDING & GROUNDS DIVISION	SERVICES - CUSTODIAL	1,080.00		
	GOVERNMENT BUILDING & GROUNDS DIVISION	SERVICES - CUSTODIAL	1,310.00		
			Total For: ASAP SERVICES INC		\$4,630.00
Vendor: AT&T MOBILITY II, LLC					
287336485071X	WIRELESS PHONE/DATA CHGS - POLICE 12/24/24-01/23/25 POLICE DEPARTMENT	TELEPHONE - WIRELESS	481.90		\$902.60
	POLICE DEPARTMENT	TELEPHONE - WIRELESS	117.44		
	POLICE DEPARTMENT	TELEPHONE - WIRELESS	180.92		
	POLICE DEPARTMENT	TELEPHONE - WIRELESS	122.34		
287339151180X	WIRELESS PHONE/DATA CHGS- PUBLIC WORKS 12/24/24-01/23/25 WATER TREATMENT	TELEPHONE - WIRELESS	85.32		\$932.53
	STREET MAINTENANCE DIVISION	TELEPHONE - WIRELESS	100.56		
	WASTEWATER COLLECTIONS	TELEPHONE - WIRELESS	576.10		
	WATER DISTRIBUTION	TELEPHONE - WIRELESS	130.46		
	BUILDING DIVISION	TELEPHONE - WIRELESS	40.09		
287339153398X	WIRELESS PHONE/DATA CHGS - PARKS 12/24/24-01/23/25 PARK MAINTENANCE & CAPITAL	TELEPHONE - WIRELESS	150.84		\$271.11
	COMMUNITY DEVELOPMENT ADMINISTRATION	TELEPHONE - WIRELESS	40.09		
	RECREATION PROGRAMS	TELEPHONE - WIRELESS	40.09		
	CITY BEACH CONCESSIONS	TELEPHONE - WIRELESS	40.09		
287339152904X	WIRELESS PHONE/DATA CHGS - CITY HALL 12/24/24-01/23/25 MAYOR'S OFFICE	TELEPHONE - WIRELESS	48.88		\$87.72
	FINANCE DEPARTMENT	TELEPHONE - WIRELESS	38.84		
287339154011X	WIRELESS PHONE/DATA CHGS - FIRE 12/24/24-01/23/25 FIRE DEPARTMENT - SANDPOINT	TELEPHONE - WIRELESS	80.18		\$130.46
	FIRE DEPARTMENT - SANDPOINT	TELEPHONE - WIRELESS	50.28		
			Total For: AT&T MOBILITY II, LLC		\$2,324.42
Vendor: AUTO HAUS INC					

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
8741	SHOP: ELECTRICAL TAPE AND BATTERY CABLE				\$11.32
	WASTEWATER COLLECTIONS	VEHICLE & MACH SUPPLIES/PARTS	3.77		
	WATER DISTRIBUTION	VEHICLE & MACH SUPPLIES/PARTS	3.77		
	STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	3.78		
Total For: AUTO HAUS INC					\$11.32

Vendor: AVISTA UTILITIES

12/15/24-01/15/2	MONTHLY UTILITIES FOR ONTARIO RNTL				\$23.41
	GENERAL GOVERNMENT PROJECTS	ELECTRICITY	23.41		
12/15/24-01/15/2	MONTHLY UTILITIES - CITY WIDE				\$47,812.49
	GOVERNMENT BUILDING & GROUNDS DIVISION	ELECTRICITY	3,785.77		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	149.94		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	169.52		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	23.42		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	105.21		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	479.34		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	20.21		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	1,138.15		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	20.41		
	GOVERNMENT BUILDING & GROUNDS DIVISION	ELECTRICITY	435.25		
	STREET MAINTENANCE DIVISION	ELECTRICITY	11,038.22		
	PARK MAINTENANCE & CAPITAL	ELECTRICITY	1,820.08		
	WATER TREATMENT	ELECTRICITY	8,634.63		
	WASTEWATER COLLECTIONS	ELECTRICITY	1,965.96		
	WASTEWATER TREATMENT	ELECTRICITY	11,825.01		
	RECREATION PROGRAMS	ELECTRICITY	20.37		
	STREET MAINTENANCE DIVISION	ELECTRICITY	1,409.46		
	CENTRAL SERVICES DEPARTMENT	ELECTRICITY	108.33		
	WATER DISTRIBUTION	ELECTRICITY	557.81		
	GOVERNMENT BUILDING & GROUNDS DIVISION	ELECTRICITY	375.89		
	JAMES E. RUSSELL SPORTS CENTER FACILITY	ELECTRICITY	3,729.51		
Total For: AVISTA UTILITIES					\$47,835.90

Vendor: BACKFLOW ASSEMBLY TESTING & SUPPLY

T3112507	WTP: BACKFLOW REFRESHER TESTER COURSE -T. WINGET				\$400.00
	WATER TREATMENT	TRAINING AND TRAVEL	400.00		
Total For: BACKFLOW ASSEMBLY TESTING & SUPPLY					\$400.00

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
Vendor: BADGER METER INC					
80185165	WD: BEACON WTR METER READER -JAN'25 WATER DISTRIBUTION	SOFTWARE/SAAS - WATER METER READING	523.20		\$523.20
			Total For: BADGER METER INC		\$523.20
Vendor: BIG BELLY SOLAR LLC					
55597	DWNTWN TRASH BINS 2/4/25-3/3/25 SANITATION/GARBAGE COLLECTION	MULTI-PURPOSE WASTE DISPOSAL/PORTALOO	480.00		\$480.00
			Total For: BIG BELLY SOLAR LLC		\$480.00
Vendor: BILLING DOCUMENT SPECIALISTS					
98761	UTILITY BILLING JAN REG & LATE NOTICES UTILITY BILLING UTILITY BILLING	TECH SERVICES - UTILITY BILLING POSTAGE	387.86 895.39		\$1,283.25
			Total For: BILLING DOCUMENT SPECIALISTS		\$1,283.25
Vendor: BONNER COUNTY PROSECUTING ATTY					
BCPA074	PROSECUTING ATTORNEY SVCS JAN'25 LEGAL	OTHER PROF SERVICE - LEGAL - CRIMINAL	7,083.33		\$7,083.33
			Total For: BONNER COUNTY PROSECUTING ATTY		\$7,083.33
Vendor: BRIAN MCFADDEN - MCFADDEN CONSULTING LLC					
1223	AIR COMPRESSOR SERVICING FOR AIR TANKS FIRE DEPARTMENT - SANDPOINT	SERVICES - EQUIPMENT - R&M	265.00		\$265.00
			Total For: BRIAN MCFADDEN - MCFADDEN CONSULTING LLC		\$265.00
Vendor: BROWN'S NORTHSIDE					
S165352	SC: BOOM TRUCK HUB CAP GASKETS WASTEWATER COLLECTIONS	VEHICLE & MACH SUPPLIES/PARTS	2.37		\$2.37
S165330	HOSES & FITTINGS SPORTS FIELD- SPORTS COMPLEX PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	155.25		\$155.25
S165527	SHOP: JIC FITTINGS AND CAPS WATER DISTRIBUTION WASTEWATER COLLECTIONS STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS VEHICLE & MACH SUPPLIES/PARTS VEHICLE & MACH SUPPLIES/PARTS	9.33 9.33 9.33		\$27.99
S165302	LADDER TRUCK FILTERS FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	570.61		\$570.61
S165268	LADDER TRUCK SOLENOID FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	299.00		\$299.00
S165341	LADDER TRUCK EXHAUST VALVES				\$1,248

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.	t
S165499	FIRE DEPARTMENT - SANDPOINT ST: PLOW TRUCK AIR VALVE REPLACEMENT STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	1,240.18		\$327.59
S165563	WWTP: HYDRAULIC FITTINGS FOR BELT PRESS WASTEWATER TREATMENT	VEHICLE & MACH SUPPLIES/PARTS	327.59		\$35.25
S165549	1132 FILTER/AIR ELEMENT/WTR&FUEL SEPARATOR FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	35.25		\$309.80
S165548	1131 HOSE CLAMP/ PUSHLOCK HOSES FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	309.80		\$89.25
S165554	1132 CENTRIFUGE OIL FILTER FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	89.25		\$86.01
Total For: BROWN'S NORTHSIDE			86.01		\$3,143.30
Vendor: CANON FINANCIAL SERVICES INC					
38601496	UPSTAIRS/DOWNSTAIRS COPIERS - MNTHLY LEASE AND USAGE CENTRAL SERVICES DEPARTMENT	COPIER LEASE			\$536.93
	CENTRAL SERVICES DEPARTMENT	PHOTOCOPIES	355.00		
			181.93		
Total For: CANON FINANCIAL SERVICES INC					\$536.93
Vendor: CC VENDOR - WELLS FARGO					
113-7641594-01	FIREPROOF MONEY SAFE - JER JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT			\$157.99
114-1770817-01	OFFICE - NOTARY BOOKS, PENS CENTRAL SERVICES DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT	157.99		\$38.35
	PUBLIC WORKS ADMINISTRATION	OFFICE SUPPLIES/EQUIPMENT	11.59		
	COMMUNITY DEVELOPMENT ADMINISTRATION	OFFICE SUPPLIES/EQUIPMENT	13.38		
114-6676327-37	PRINTER TONER - PAYROLL FINANCE DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT	13.38		\$153.99
114-4463344-26	SIGN HOLDERS, MAGNETIC PUSH PENS CITY COUNCIL	OFFICE SUPPLIES/EQUIPMENT	153.99		\$32.98
027667	EMERGENCY - AIR TESTING AT FIRE DEPT GOVERNMENT BUILDING & GROUNDS DIVISION	SERVICES - BUILDING - R&M	32.98		\$780.00
114-2743105-70	NOTARY STAMPS - PW & COMM DEV PUBLIC WORKS ADMINISTRATION	OFFICE SUPPLIES/EQUIPMENT	780.00		\$51.80
	COMMUNITY DEVELOPMENT ADMINISTRATION	OFFICE SUPPLIES/EQUIPMENT	25.90		
69623662	WTP: DRNKNG WTR TRTMNT OP LIC -J. LANDER WATER TREATMENT	LICENSES/DUES & SUBSCR (JOB RELATED)	25.90		\$55.00
196106	RPLCMNT DOORS-VANDALISM AT JEFF JONES SQ PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	55.00		\$1,629
			1,346.00		

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	PARK MAINTENANCE & CAPITAL	FACILITY SUPPLIES	275.00		
12501281829A0	POSTAGE FOR PPE UPDATE "SANDPOINT" FIRE DEPARTMENT - SANDPOINT	POSTAGE	28.41		\$28.41
1863	PRINTS FOR FIRE DEPT LOBBY FIRE DEPARTMENT - SANDPOINT	PRINTING AND BINDING	48.89		\$48.89
112-8767444-00	HEAD LAMPS FOR RESCUE HELMETS FIRE DEPARTMENT - SANDPOINT	OPERATIONAL SUPPLIES/EQUIPMENT	47.98		\$47.98
618046774	SMARTWAIVER FOR JAN - REC PROGRAMS RECREATION PROGRAMS	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	55.00		\$55.00
010571	SPOKANE INTL AIR PARKING - T0057 MAYOR'S OFFICE	TRAINING AND TRAVEL	10.00		\$10.00
087190	STAPLES - DESK CHAIR FOR CENTRAL SVCS ADMIN CENTRAL SERVICES DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT	138.99		\$138.99
02323021	RATCHET STRAPS AND RECOVERY STRAP FIRE DEPARTMENT - SANDPOINT	OPERATIONAL SUPPLIES/EQUIPMENT	63.96		\$63.96
UBER - BOISE T	UBER - T0057 AIRPORT TO JEFFERSON MAYOR'S OFFICE	TRAINING AND TRAVEL	12.92		\$12.92
UBER - T0057	UBER - T0057 BOISE JEFFERSON TO AIRPORT MAYOR'S OFFICE	TRAINING AND TRAVEL	18.90		\$18.90
38502376153915	LITHIUM BATTERIES FOR FIREARMS POLICE DEPARTMENT	FIREARMS & AMMUNITION	34.86		\$34.86
0471178-IN	WWTP: AIR FILTERS WASTEWATER TREATMENT	FACILITY SUPPLIES	578.00		\$578.00
73014620596238	HOTEL EVOC TRAINING OFFICER LITTLE -T0058 4/12-4/19 POLICE DEPARTMENT	TRAINING AND TRAVEL	1,119.72		\$1,119.72
T3112513	WWTP: Z. NEU BACKFLOW TESTING WASTEWATER TREATMENT	TRAINING AND TRAVEL	416.00		\$416.00
S14150298	WWTP: NEW PICKUP REGISTRATION (C03883) WASTEWATER TREATMENT	VEHICLE & MACH SUPPLIES/PARTS	23.57		\$23.57
112-6568431-22	REFUND FOR 1 HAM RADIO FIRE DEPARTMENT - SANDPOINT	OPERATIONAL SUPPLIES/EQUIPMENT	(21.79)		\$(21.79)
114-1436418-89	OFFICE ORGANIZER & SHREDDER FOR HR CENTRAL SERVICES DEPARTMENT FINANCE DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT OFFICE SUPPLIES/EQUIPMENT	34.00 14.84		\$48.84
113-9734305-77	AMAZON-100 AA BATTERIES-2 PACKS POLICE DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT	53.62		\$53.62
80207	WINDSHEILD GLASS SAW - EXTRACATION				\$10

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.	t
011625	FIRE DEPARTMENT - SANDPOINT 1131 PORTABLE SCENE LIGHT & SPARE BATTERY FIRE DEPARTMENT - SANDPOINT	OPERATIONAL SUPPLIES/EQUIPMENT	179.99		\$378.00
40L81574UJ339	BLINDS - MAYOR & HUGHES OFFICES GOVERNMENT BUILDING & GROUNDS DIVISION	VEHICLE & MACH SUPPLIES/PARTS	378.00		\$283.18
112-8580358-61	LADDER TRK 20 AMP ROCKER SWITCH FIRE DEPARTMENT - SANDPOINT	OPERATIONAL SUPPLIES/EQUIPMENT	283.18		\$16.48
113-3422817-08	AMAZON - GUN RACKS FOR ARMORY ROOM POLICE DEPARTMENT	VEHICLE & MACH SUPPLIES/PARTS	16.48		\$69.99
111-6807328-71	1161 EXHAUST TIP - DIESEL FUME EXTRACTOR FIRE DEPARTMENT - SANDPOINT	FIREARMS & AMMUNITION	69.99		\$34.98
114-8349041-70	PLOTTER - MATTE BLACK INK CARTRIDGE PLANNING DIVISION	VEHICLE & MACH SUPPLIES/PARTS	34.98		\$103.55
38501658876468	DEPARTMENT TRAINING FOOD & DRINK POLICE DEPARTMENT	OFFICE SUPPLIES/EQUIPMENT	51.78		\$25.15
69390996	WTP: RNEW DRNKNNG WTR TRTMNT OP -C SHOOK WATER TREATMENT	OFFICE SUPPLIES/EQUIPMENT	51.77		\$60.00
114-7644715-30	OFFICE SUPPLIES, PENS, SIGN HOLDERS, MEC PENCILS CENTRAL SERVICES DEPARTMENT	SUSTENANCE/FOOD	25.15		\$35.07
04397-73719886	FINANCE DEPARTMENT CANVA ONLINE GRAPHIC SOFTWARE INFORMATION TECHNOLOGY DIVISION	LICENSES/DUES & SUBSCR (JOB RELATED)	60.00		\$108.45
15816471	CASH DRAWER - JER JAMES E. RUSSELL SPORTS CENTER FACILITY	SOFTWARE/SAAS - OTHER/MISCELLANEOUS	108.45		\$149.30
113-6572066-91	TOILET BRUSH - JER JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT	149.30		\$13.28
112-6568431-22	6 BANK CHARGING STATION FOR HAM RADIOS FIRE DEPARTMENT - SANDPOINT	CLEANING SUPPLIES	13.28		\$38.37
58501359321198	FOOD & DRINK - DEPARTMENT TRAINING POLICE DEPARTMENT	OPERATIONAL SUPPLIES/EQUIPMENT	38.37		\$37.87
		SUSTENANCE/FOOD	37.87		
Total For: CC VENDOR - WELLS FARGO					\$7,102.64

Vendor: CHECKR INC

1655073	BACKGROUND SVCS - 1 REC JAMES E. RUSSELL SPORTS CENTER FACILITY	BACKGROUND CHECK SERVICES	29.99		\$29.99
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Total For: CHECKR INC

\$ 11

Vendor: CHRISTINE KUHLMAN

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.
0026	BUILDING OFFICIAL SERVICES DEC & JAN BUILDING DIVISION	TECH SVS - SRVY/INSPCT/ASSESS/MONITOR	1,422.50	\$1,422.50
Total For: CHRISTINE KUHLMAN				\$1,422.50
Vendor: CLEARWATER SPRINGS				
882143	WWTP: DISTILLED H2O & FUEL SURCHARGE WASTEWATER TREATMENT	LABORATORY SUPPLIES	35.00	\$35.00
Total For: CLEARWATER SPRINGS				\$35.00
Vendor: CLIENTFIRST TECHNOLOGY CONSULTING				
17785	GIS SUPPORT SRVCS - FY25 - JAN INFORMATION TECHNOLOGY DIVISION	TECH SERVICES - GIS SERVICES	1,267.50	\$1,267.50
Total For: CLIENTFIRST TECHNOLOGY CONSULTING				\$1,267.50
Vendor: COLEMAN OIL				
CP-0219129	JANUARY FUEL CHARGES - POLICE POLICE DEPARTMENT POLICE DEPARTMENT POLICE DEPARTMENT	FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL	2,823.41 505.93 434.36	\$3,763.70
CP-0219098	JAN FUEL CHARGES - PW & PARKS STREET MAINTENANCE DIVISION WATER DISTRIBUTION WASTEWATER COLLECTIONS BUILDING DIVISION PUBLIC WORKS ADMINISTRATION WATER TREATMENT WASTEWATER TREATMENT PARK MAINTENANCE & CAPITAL PARK MAINTENANCE & CAPITAL PARK MAINTENANCE & CAPITAL PARK MAINTENANCE & CAPITAL	FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL VEHICLE & MACH SUPPLIES/PARTS FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL	1,161.76 528.48 494.01 28.35 40.18 268.52 397.55 599.42 33.01 199.81 199.81	\$3,950.90
CP-0219138	JAN FUEL CHARGES FIRE DEPT FIRE DEPARTMENT - SANDPOINT FIRE DEPARTMENT - SANDPOINT FIRE DEPARTMENT - SANDPOINT FIRE DEPARTMENT - SANDPOINT	FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL FUEL - GASOLINE/DIESEL	190.20 139.72 154.24 153.16	\$637.32
INV-260048	61 GAL OF OIL FOR 1131 FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	130.79	\$130.79

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
INV-260653	SHOP: ENGINE OIL STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	57.67		
	WATER DISTRIBUTION	VEHICLE & MACH SUPPLIES/PARTS	57.66		
	WASTEWATER COLLECTIONS	VEHICLE & MACH SUPPLIES/PARTS	57.67		
INV-260864	1132 SYNTHETIC BLEND OIL FIRE DEPARTMENT - SANDPOINT	VEHICLE & MACH SUPPLIES/PARTS	152.82		
Total For: COLEMAN OIL					\$173.00
Total For: COLEMAN OIL					\$152.82
Total For: COLEMAN OIL					\$8,808.53

Vendor: CONSOLIDATED SUPPLY CO.

S012278131.001	SC: PARTS -WESTWOOD PRESSURE LINE REPAIR WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	85.23		\$85.23
S012278145.001	SC: PARTS -WESTWOOD PRESSURE LINE REPAIR WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	178.75		\$178.75
S012279383.001	WD: METER BOX KEY WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	20.14		\$20.14
S012277775.001	SC: PARTS -WESTWOOD PRESSURE LINE REPAIR WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	893.84		\$893.84
S012277775.002	SC: REFUND ON 4" TEE -WESTWOOD REPAIR WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	(111.58)		\$(111.58)
S012269736.001	WD: PIPE COUPLING & ADAPTERS WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	29.65		\$29.65
S011958699.003	WD: BADGER T450 METER WATER DISTRIBUTION	RETAIL/METER SUPPLIES/EQUIPMENT	4,343.96		\$4,343.96
S011958699.005	WD: BADGER M55 1" METER X20 WATER DISTRIBUTION	RETAIL/METER SUPPLIES/EQUIPMENT	9,956.00		\$9,956.00
Total For: CONSOLIDATED SUPPLY CO.					\$15,395.99

Vendor: CO-OP GAS & SUPPLY CO.

39993	WD: 14" PIPE WRENCH WATER DISTRIBUTION	TOOLS	38.99		\$38.99
30205	WD: TOOL BOX, BITS, DRIVERS, SFTY VALVE WATER DISTRIBUTION	TOOLS	90.95		\$90.95
47929	WWTP: BALL VALVES AND PROPANE WASTEWATER TREATMENT	FACILITY SUPPLIES	146.67		\$146.67
71925	WWTP: THERMOMETER TUBE & PROPANE WASTEWATER TREATMENT	FACILITY SUPPLIES	23.69		\$23.69
39721	WWTP: RAIN DEFENDER AND PROPANE WASTEWATER TREATMENT	FACILITY SUPPLIES	18.98		\$173.97
	WASTEWATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	154.99		

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.	t
71855	HARDWARE FOR FIELD PAINTER - SPORTS COMPLEX PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	22.41			\$22.41
48865	ST: SCHOOL ZONE SIGNS STREET MAINTENANCE DIVISION	SIGNAGE SUPPLIES/EQUIPMENT	33.56			\$33.56
30864	ST: HEX ADAPTERS & BOLTS STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	22.76			\$22.76
73086	ST: SNOW PLOW BOLTS STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	44.46			\$44.46
31227	ST: NUTS & BOLTS FOR SNOW PLOW STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	8.64			\$8.64
Total For: CO-OP GAS & SUPPLY CO.						\$606.10
Vendor: CRAIG HINMAN						
82375193	REC REFUND CPR CLASS - LACK OF STAFFING - CLASS CANCELLED UNCLASSIFIED	RECREATION PROGRAMS - NON TAXABLE	60.00			\$60.00
Total For: CRAIG HINMAN						\$60.00
Vendor: CULLIGAN LLC						
202502695182	WWTP: MNTHLY H2O & COOLER RNTL -FEB'25 WASTEWATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	53.70			\$53.70
Total For: CULLIGAN LLC						\$53.70
Vendor: DECKARD TECHNOLOGIES INC						
1897	SHORT TERM RENTAL DATA ANALYTICS 01/13/25 - 01/12/26 INFORMATION TECHNOLOGY DIVISION	SOFTWARE/SAAS - GIS & STR	5,959.00			\$5,959.00
Total For: DECKARD TECHNOLOGIES INC						\$5,959.00
Vendor: EDNETICS INC						
INV-134223	PHONE VOIP STANDARD/ANALOG USERS MNTHLY - FEB'25 INFORMATION TECHNOLOGY DIVISION	TELEPHONE - VOIP	2,984.45			\$2,984.45
Total For: EDNETICS INC						\$2,984.45
Vendor: EMSCONNECT						
12315	EMS & FIRE TRAINING SUBSCRIPTION FEB'25 FIRE DEPARTMENT - SANDPOINT	LICENSES/DUES & SUBSCR (JOB RELATED)	75.00			\$75.00
Total For: EMSCONNECT						\$75.00
Vendor: ERIK BUSH						
PER DIEM T005	E. BUSH PER DIEM/MILEAGE REIMB -MFI CONF ENGINEERING DIVISION	TRAINING AND TRAVEL	111.00			\$215.79
	ENGINEERING DIVISION	TRAINING AND TRAVEL	104.79			
Total For: ERIK BUSH						\$215.79

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Inv	Item # 2.
Vendor: FATBEAM LLC					
52867	INTERNET SVCS- CITY HALL FEB '25 INFORMATION TECHNOLOGY DIVISION	INTERNET - FIBER/T1	406.85		
			Total For: FATBEAM LLC		\$406.85
Vendor: FIRST COMMUNICATIONS LLC					
127569455	LONG DISTANCE PHONE CHGS - FEB'25 INFORMATION TECHNOLOGY DIVISION	TELEPHONE - LANDLINE & OTHER	53.94		
			Total For: FIRST COMMUNICATIONS LLC		\$53.94
Vendor: FULL CIRCLE POWDER COATING INC					
10888	WWTP: TRUCK BED LINER WASTEWATER TREATMENT	VEHICLE & MACH SUPPLIES/PARTS	550.00		
			Total For: FULL CIRCLE POWDER COATING INC		\$550.00
Vendor: GALLS LLC					
030345283	5,11 TACTICAL BELT - C. COON POLICE DEPARTMENT	UNIFORM & CLOTHING	50.21		
			Total For: GALLS LLC		\$50.21
Vendor: GINNO CONSTRUCTION CO					
21	TRAVERS RENO SVCS FOR DEC '24 JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	20,479.60		
	JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	79,415.55		
22	TRAVERS RENOV SVCS JAN '25 JAMES E. RUSSELL SPORTS CENTER FACILITY	CAPITAL CONSTRUCTION SERVICES - BUILDING	79,643.70		
2414-6	TRAVERS PLAYGROUND SVCS DEC '24 PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	6,734.25		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	6,734.25		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	4,024.20		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	4,053.34		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	4,053.33		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	4,053.33		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	102,443.25		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	102,443.25		
7	TRAVERS PLAYGROUND SVCS JAN '25 PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	708.70		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	708.70		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	1,425.00		

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	7,376.75		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	7,376.75		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	5,681.00		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	5,269.33		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	5,269.33		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	5,269.34		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	2,992.50		
	PARK MAINTENANCE & CAPITAL	CAPITAL IMPROVEMENTS - IMPACT PARKS	2,992.50		
Total For: GINNO CONSTRUCTION CO					\$459,147.95
Vendor: GRAINGER INC					
9401578464	WTP: RESPIRATOR CARTRDGE & SAFETY GLASSES WATER TREATMENT	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	187.89		\$187.89
Total For: GRAINGER INC					\$187.89
Vendor: GRT SERVICES LLC					
4650	WTP: CRANE SRVCS TO LIFT & PLACE GENERATOR WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	1,020.00		\$1,437.45
	WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	260.00		
	WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	65.00		
	WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	68.45		
	WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	24.00		
Total For: GRT SERVICES LLC					\$1,437.45
Vendor: HACH COMPANY					
14345913	WTP: CL17 CHEMICALS FOR TREATING WATER WATER TREATMENT	CHEMICAL SUPPLIES	85.43		\$85.43
Total For: HACH COMPANY					\$85.43
Vendor: IDAHO RURAL WATER ASSOCIATION					
Q2025-34	WWTP: N. SPARKS IRWA APPRNTCSHP CLS II WASTEWATER TREATMENT	TRAINING AND TRAVEL	450.00		\$450.00
Q2025-35	WWTP: R. BAILEY IRWA APPRNTCSHP CLS II WASTEWATER TREATMENT	TRAINING AND TRAVEL	450.00		\$450.00
Total For: IDAHO RURAL WATER ASSOCIATION					\$900.00
Vendor: IDEXX DISTRIBUTION INC					
3168908529	WWTP: COLILERT/QTRAY + SHIPPING WASTEWATER TREATMENT	LABORATORY SUPPLIES	652.96		\$652.96
Total For: IDEXX DISTRIBUTION INC					\$6

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
Vendor: INDEPENDENT HIGHWAY DISTRICT					
109775	ST: 2,000 GALLONS OF BRINE STREET MAINTENANCE DIVISION	SNOW SUPPLIES/EQUIPMENT	860.00		
			Total For: INDEPENDENT HIGHWAY DISTRICT		\$860.00
Vendor: INSIGHT DISTRIBUTING INC					
0520579-IN	SOAP & TRASH BAGS JER CENTER JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT	179.13		\$179.13
0520581-IN	CITY BEACH CLEANING GLOVES AND 2PLY TP PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	157.89		\$157.89
0520578-IN	TP AND PAPER TOWELS - CITY HALL GOVERNMENT BUILDING & GROUNDS DIVISION	OPERATIONAL SUPPLIES/EQUIPMENT	333.72		\$333.72
0520778-IN	HAND SOAP FOR JER JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT	69.88		\$69.88
			Total For: INSIGHT DISTRIBUTING INC		\$740.62
Vendor: JAMES A SEWELL & ASSOC LLC					
112085	WTP: GENERATOR PAD SVCS THRU DEC '24 WATER CAPITAL PROJECTS	CAPITAL EQUIPMENT & MACHINERY	556.50		\$556.50
			Total For: JAMES A SEWELL & ASSOC LLC		\$556.50
Vendor: KELLER ASSOCIATES INC					
0244419	LIFT STATION REPLCMNTS 12/01/24-12/31/24 WASTEWATER CAPITAL PROJECTS	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	3,496.25		\$3,496.25
			Total For: KELLER ASSOCIATES INC		\$3,496.25
Vendor: KELLEY CREATE					
38408717	JANUARY COPIER LEASE POLICE DEPARTMENT	COPIER LEASE	244.75		\$244.75
			Total For: KELLEY CREATE		\$244.75
Vendor: KODIAK ADVERTISING					
3205	TWO 4X4 PUBLIC NOTICE SIGNS PLANNING DIVISION	PRINTING AND BINDING	700.00		\$700.00
			Total For: KODIAK ADVERTISING		\$700.00
Vendor: LAKE CITY LAW GROUP PLLC					
40530	LEGAL SERVICES - FY25 JAN LEGAL	OTHER PROF SERVICE - LEGAL - CIVIL	13,250.00		\$13,250.00
			Total For: LAKE CITY LAW GROUP PLLC		\$13,250.00
Vendor: LES SCHWAB TIRE CENTER					

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.	t
10800875849	4 NEW TIRES MOUNTED & BALANCED, SPD 18 POLICE DEPARTMENT	SERVICES - AUTOMOTIVE - R&M	719.88		\$719.88
10800876249	CREDIT FOR OVERCHARGE ON TIRES, SPD 18 POLICE DEPARTMENT	SERVICES - AUTOMOTIVE - R&M	(20.00)		\$(20.00)
Total For: LES SCHWAB TIRE CENTER					\$699.88
Vendor: LINDSAY HOLLENBACK					
01312025	SEWING SERVICE FOR PATROL UNIFORMS - CHAMBERLAIN POLICE DEPARTMENT	UNIFORM & CLOTHING	97.00		\$97.00
Total For: LINDSAY HOLLENBACK					\$97.00
Vendor: MAGNUSON, MCHUGH & CO, P.A.					
1156556	FISCAL YEAR 2024 AUDIT SERVICES PART 1 FINANCE DEPARTMENT	OTHER PROF SERVICE - FINANCIAL AUDIT	10,000.00		\$10,000.00
Total For: MAGNUSON, MCHUGH & CO, P.A.					\$10,000.00
Vendor: NAPA AUTO PARTS					
216698	SHOP: FLOOR DRY FOR OIL WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	9.36		\$28.08
	WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	9.36		
	STREET MAINTENANCE DIVISION	OPERATIONAL SUPPLIES/EQUIPMENT	9.36		
Total For: NAPA AUTO PARTS					\$28.08
Vendor: NORTH 40 OUTFITTERS					
047463/B	SHOP: SHELF BRACKET AND SCREWS WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	21.29		\$63.88
	WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	21.30		
	STREET MAINTENANCE DIVISION	OPERATIONAL SUPPLIES/EQUIPMENT	21.29		
047478/B	WTP: MAGNETIC KEY HOLDER WATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	2.99		\$2.99
047455/B	WD/SC: UTILITY KNIFE, WIRE BRSH & MISC TOOL WATER DISTRIBUTION	TOOLS	147.01		\$294.01
	WASTEWATER COLLECTIONS	TOOLS	147.00		
047521/B	OUTDOOR WINTER GLOVES PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	228.98		\$228.98
047520/B	OUTDOOR WINTER GLOVES - TAX RETURN PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	(242.72)		\$(242.72)
047509/B	OUTDOOR WINTER GLOVES - TAXED PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	242.72		\$242.72
047574/B	WWTP: HOSE AND SWIVEL ADAPTER				\$

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd Item # 2.	t
047562/B	WASTEWATER TREATMENT WWTP: PROPANE	OPERATIONAL SUPPLIES/EQUIPMENT	85.90		\$20.93
047561/B	WASTEWATER TREATMENT WWTP: GLOVES, PROPANE TANK & PROPANE	OPERATIONAL SUPPLIES/EQUIPMENT	20.93		\$239.46
047595/B	WASTEWATER TREATMENT WD: 8' BRAIDED CABLES	OPERATIONAL SUPPLIES/EQUIPMENT	239.46		\$29.98
047602/B	WATER DISTRIBUTION WWTP: EXT CORDS & KEROSENE HEATERS	OPERATIONAL SUPPLIES/EQUIPMENT	29.98		\$307.96
	WASTEWATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	307.96		
Total For: NORTH 40 OUTFITTERS					\$1,274.09
Vendor: OXARC INC					
0061931825	WWTP: CHLORINE & SPECIALTY GASES -JAN'25 WASTEWATER TREATMENT	CHEMICAL SUPPLIES	157.97		\$157.97
0061934492	WWTP: CHLORINE CYL RENTAL WASTEWATER TREATMENT	CHEMICAL SUPPLIES	148.51		\$148.51
0061910063	WWTP: CHLORINE & CYLINDER RNTL WASTEWATER TREATMENT	CHEMICAL SUPPLIES	135.58		\$135.58
0032260270	WWTP: LATE FEE ON INVOICE 0061910063 WASTEWATER TREATMENT	CHEMICAL SUPPLIES	2.37		\$2.37
0032238184	WD: LATE FEE ON INVOICE 0032201863 WATER DISTRIBUTION	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	2.42		\$2.42
0032264502	WWTP: CHLORINE CYL & SULFUR DIOXIDE WASTEWATER TREATMENT	CHEMICAL SUPPLIES	3,855.70		\$6,902.05
	WASTEWATER TREATMENT	CHEMICAL SUPPLIES	3,001.60		
	WASTEWATER TREATMENT	CHEMICAL SUPPLIES	44.75		
Total For: OXARC INC					\$7,348.90
Vendor: PAPE MACHINERY INC					
15877145	ST: HYDRAULIC OIL FOR LOADER STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	136.60		\$136.60
Total For: PAPE MACHINERY INC					\$136.60
Vendor: PASSWORD ANSWER SERVICE					
000035-547-461	AFTER HRS ANSWER SVCS FEB'25 PUBLIC WORKS ADMINISTRATION	TELEPHONE - LANDLINE & OTHER	323.01		\$323.01
Total For: PASSWORD ANSWER SERVICE					\$323.01
Vendor: PEAK INDUSTRIAL INC - PEAK MACHINERY					
PSI-448463	EDG CTTNG BOLTS/NUTS - PARKS ALL				\$2

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	PARK MAINTENANCE & CAPITAL	VEHICLE & MACH SUPPLIES/PARTS	257.35		
Total For: PEAK INDUSTRIAL INC - PEAK MACHINERY			\$257.35		
Vendor: PELICANCORP ONE CALL INC					
INV-1044	UTILITY LOCATOR SERVICE JAN'25 WATER DISTRIBUTION	TELEPHONE - LANDLINE & OTHER	50.40		\$100.80
	WASTEWATER COLLECTIONS	TELEPHONE - LANDLINE & OTHER	50.40		
Total For: PELICANCORP ONE CALL INC			\$100.80		
Vendor: PHOENIX ASPHALT MAINTENENCE INC					
354	ST: STRIPER AND BEAD DISPENSER STREET MAINTENANCE DIVISION	PAINT & THERMO SUPPLIES/EQUIPMENT	8,050.00		\$9,500.00
	STREET MAINTENANCE DIVISION	PAINT & THERMO SUPPLIES/EQUIPMENT	1,450.00		
Total For: PHOENIX ASPHALT MAINTENENCE INC			\$9,500.00		
Vendor: PIERCE AUTO CENTER					
302520	WWTP: SEAT COVER, STEP, FLOOR MATS WASTEWATER TREATMENT	VEHICLE & MACH SUPPLIES/PARTS	689.85		\$689.85
Total For: PIERCE AUTO CENTER			\$689.85		
Vendor: POLYDYNE INC					
1897537	WWTP: 80X55LB BAGS OF POLYMER WASTEWATER TREATMENT	CHEMICAL SUPPLIES	11,000.00		\$11,000.00
Total For: POLYDYNE INC			\$11,000.00		
Vendor: PREMIER ELECTRIC MOTORS					
11747	WWTP: STAINLESS STEEL TECO MOTOR WASTEWATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	1,245.00		\$1,245.00
Total For: PREMIER ELECTRIC MOTORS			\$1,245.00		
Vendor: RACQUET SPORTS NORTHWEST LLC					
2014	REC FACILITY MGMT CONSULT SVCS JER CENTER JAMES E. RUSSELL SPORTS CENTER FACILITY	TECH SERVICES - PARK/BEACH & REC AND ART	1,843.75		\$1,843.75
Total For: RACQUET SPORTS NORTHWEST LLC			\$1,843.75		
Vendor: RECTRAC LLC					
VS-015749	SET UP/TRAINING FOR NEW REC SOFTWARE RECREATION PROGRAMS	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	81.90		\$1,000.00
	PARK MAINTENANCE & CAPITAL	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	321.10		
	PARK MAINTENANCE & CAPITAL	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	121.90		
	PARK MAINTENANCE & CAPITAL	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	36.50		
	CITY BEACH RV PARK	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	120.00		

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	JAMES E. RUSSELL SPORTS CENTER FACILITY	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	318.60		
VS015594CREDI	CREDIT FOR NEW REC SOFTWARE SETUP/TRAINING TIME - REMOTE				\$(375.00)
	RECREATION PROGRAMS	SOFTWARE/SAAS - REC 1/TEAMSIDELINE	(375.00)		
Total For: RECTRAC LLC					\$625.00
Vendor: RELENTLESS LLC					
16165	3 DAY CRIMINAL DRUG INTERDICTION WORKSHOP - HOPMAN & TRUMBLE POLICE DEPARTMENT	TRAINING AND TRAVEL	1,398.00		\$1,398.00
Total For: RELENTLESS LLC					\$1,398.00
Vendor: SANDPOINT BUILDING SUPPLY					
2491977	SC: CONCRETE FOR WESTWOOD REPAIR WASTEWATER COLLECTIONS	OPERATIONAL SUPPLIES/EQUIPMENT	11.96		\$11.96
Total For: SANDPOINT BUILDING SUPPLY					\$11.96
Vendor: SANDPOINT SUPER DRUG					
29001/1	WD: INDUSTRIAL PAINT MARKER WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	8.09		\$8.09
Total For: SANDPOINT SUPER DRUG					\$8.09
Vendor: SIMCO DEVELOPMENT GROUP					
PAY APP 3	LIFT STATIONS REPLACEMENT THRU 1/31/25 WASTEWATER CAPITAL PROJECTS	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	154,834.59		\$154,834.59
Total For: SIMCO DEVELOPMENT GROUP					\$154,834.59
Vendor: SOUTH FORK HARDWARE (PARKS)					
396110	HAND HELD VAC-CTY HALL, SIGN WETFLR -JER GOVERNMENT BUILDING & GROUNDS DIVISION	CLEANING SUPPLIES	32.99		\$140.95
	JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT	107.96		
396626	BEACH SHOP TOOLS/KEYS FOR SHOOTING RANGE PARK MAINTENANCE & CAPITAL	TOOLS	30.98		\$44.90
	RECREATION PROGRAMS	OPERATIONAL SUPPLIES/EQUIPMENT	13.92		
396762	EARMUFFS - BEACH SHOP PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	33.99		\$33.99
396497	KEY RINGS & ACCESSORIES, SAWZALL BLADE - MEMORIAL PARK MAINTENANCE & CAPITAL	TOOLS	87.73		\$87.73
396687	TARP, SUPER GLUE - SPORTS COMPLEX PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	59.48		\$59.48
396610	SPORTS COMPLEX PAINT SUPPLIES PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	72.69		\$72.69
Total For: SOUTH FORK HARDWARE (PARKS)					\$4

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
Vendor: SOUTH FORK HARDWARE (PUB WKS)					
397100	WD: BLACK SPONGE TAPE WATER DISTRIBUTION	OPERATIONAL SUPPLIES/EQUIPMENT	6.49		\$6.49
397210	WWTP: SNOWBRUSH AND SNOW SHOVEL WASTEWATER TREATMENT	FACILITY SUPPLIES	139.97		\$139.97
397370	WWTP: NUTS & BOLTS WASTEWATER TREATMENT	OPERATIONAL SUPPLIES/EQUIPMENT	5.72		\$5.72
Total For: SOUTH FORK HARDWARE (PUB WKS)					\$152.18
Vendor: SPARKS, NATHAN G					
REIMB 013125	WWTP: BOOT REIMB - NATE SPARKS FY'25 WASTEWATER TREATMENT	UNIFORM & CLOTHING	125.00		\$125.00
Total For: SPARKS, NATHAN G					\$125.00
Vendor: SPOKANE TESTING SOLUTIONS					
18153	DOT DRUG TESTING - 2 PW, 1 WSTWTR, 1 STREET PUBLIC WORKS ADMINISTRATION	OTHER PROF SERVICE - MEDICAL	120.00		\$240.00
	WASTEWATER TREATMENT	OTHER PROF SERVICE - MEDICAL	60.00		
	STREET MAINTENANCE DIVISION	OTHER PROF SERVICE - MEDICAL	60.00		
Total For: SPOKANE TESTING SOLUTIONS					\$240.00
Vendor: STEEL LLC					
23497100	WTP QRTRLY FILTER CHANGE WATER TREATMENT	SERVICES - BUILDING - R&M	250.00		\$250.00
23573260	HEATER DIAGNOSTIC AT AIRPORT PROPERTY GENERAL GOVERNMENT PROJECTS	SERVICES - BUILDING - R&M	288.75		\$288.75
23745395	CITY HALL - HVAC REPAIR - NON-FUNCTIONING UNIT GOVERNMENT BUILDING & GROUNDS DIVISION	SERVICES - BUILDING - R&M	397.50		\$397.50
Total For: STEEL LLC					\$936.25
Vendor: STEWART CONTRACTING, INC.					
PAY APP TWO (BRIDGE ST REHAB - CNSTRCTN THRU 12/31/24 STREET CAPITAL & PROJECTS	CONSTRUCTION SERVICES - NON CAPITAL	107,077.58		\$107,077.58
PAY APP 4 (FIN	BOYER WTR MAIN - CNSTRCTN THRU 10/18/24 WATER CAPITAL PROJECTS	CAPITAL IMPROVEMENTS OTHER THAN BUILDING	23,770.67		\$23,770.67
Total For: STEWART CONTRACTING, INC.					\$130,848.25
Vendor: STONEWAY ELECTRIC SUPPLY					
S104563934.001	ST: SOCKET SCREWS - DECORATIVE ST LIGHTS STREET MAINTENANCE DIVISION	STREET LIGHTING SUPPLIES/EQUIPMENT	35.00		\$35.00
Total For: STONEWAY ELECTRIC SUPPLY					\$35.00

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
Vendor: TAMARACK RIDGE MEDIA LLC					
1861	JER - 3 SIGNS USING BC HISTORIC SOCIETY CONTENT JAMES E. RUSSELL SPORTS CENTER FACILITY	OPERATIONAL SUPPLIES/EQUIPMENT	361.15		\$361.15
1862	4 CHAMBER LOBBY SIGNS CITY COUNCIL	OFFICE SUPPLIES/EQUIPMENT	411.32		\$411.32
Total For: TAMARACK RIDGE MEDIA LLC					\$772.47
Vendor: THE MONEY DEPOT					
93713	WTP: HACH PH SENSOR RETURN SHIPPING WATER TREATMENT	POSTAGE	80.83		\$80.83
Total For: THE MONEY DEPOT					\$80.83
Vendor: TORK ELECTRIC INC					
8384	WWTP: HYDRAULIC PRESSURE SWITCH RPLCMNT WASTEWATER TREATMENT	TECH SERVICES - ELECTRICAL	405.00		\$405.00
8385	WTP: CONDUIT TO ELCTRCL ROOM & LIGHT RPLCMNT WATER TREATMENT	TECH SERVICES - ELECTRICAL	0.00		\$2,381.48
	WATER TREATMENT	TECH SERVICES - ELECTRICAL	2,381.48		
8386	ON CALL ELECTRICAL SERVICES - DOWNTOWN STREET MAINTENANCE DIVISION	SERVICES - STREET LIGHT - R&M	1,205.00		\$2,970.98
	GOVERNMENT BUILDING & GROUNDS DIVISION	TECH SERVICES - ELECTRICAL	405.58		
	STREET MAINTENANCE DIVISION	TECH SERVICES - ELECTRICAL	1,360.40		
Total For: TORK ELECTRIC INC					\$5,757.46
Vendor: TRANSUNION RISK AND ALTERNATIVE DATA SOLUTIONS, INC					
5922531-202501	BACKGROUND CHECK SVCS - JAN '25 POLICE DEPARTMENT	BACKGROUND CHECK SERVICES	138.00		\$138.00
Total For: TRANSUNION RISK AND ALTERNATIVE DATA SOLUTIONS, INC					\$138.00
Vendor: USA BLUE BOOK					
INV00608529	WWTP: LAB SUPPLIES & GLOVES WASTEWATER TREATMENT	LABORATORY SUPPLIES	687.75		\$687.75
Total For: USA BLUE BOOK					\$687.75
Vendor: VESTIS GROUP, INC					
GEG1-004391	SHOP: FIRST AID SUPPLIES STREET MAINTENANCE DIVISION	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	46.75		\$140.27
	WATER DISTRIBUTION	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	46.76		
	WASTEWATER COLLECTIONS	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	46.76		
GEG1-004388	OFFICE MEDICAL CABINET SUPPLIES -POLICE				\$1

Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	POLICE DEPARTMENT	SAFETY/PPE/MEDICAL SUPPLIES/EQUIPMENT	187.01		
Total For: VESTIS GROUP, INC			\$327.28		

Vendor: WARRIOR HVAC LLC

0000158383	REFUND FOR OVERPAYMENT ON MECHANICAL PERMIT UNCLASSIFIED	ACCOUNTS PAYABLE	25.00		\$25.00
Total For: WARRIOR HVAC LLC					\$25.00

Vendor: WASTE MANAGEMENT OF IDAHO INC

FEB06INVOICE	RESIDENTIAL REFUSE & WASTE CHARGES FEB '25 SANITATION/GARBAGE COLLECTION	TECH SERVICES - GARBAGE REMOVAL	50,133.39		\$50,133.39
0237201-1827-4	CITY PROPERTY GARBAGE SVCS JAN '25 GOVERNMENT BUILDING & GROUNDS DIVISION PARK MAINTENANCE & CAPITAL WASTEWATER TREATMENT PARK MAINTENANCE & CAPITAL PARK MAINTENANCE & CAPITAL GOVERNMENT BUILDING & GROUNDS DIVISION PUBLIC WORKS ADMINISTRATION WATER TREATMENT	DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES DISPOSAL (GARBAGE) SERVICES	720.00 600.00 100.00 600.00 600.00 40.00 240.00 240.00		\$3,140.00
Total For: WASTE MANAGEMENT OF IDAHO INC					\$53,273.39

Vendor: WESTERN STATES EQUIPMENT CO

IN003078568	ST: GRADER FUEL TANK CAP STREET MAINTENANCE DIVISION	VEHICLE & MACH SUPPLIES/PARTS	59.90		\$59.90
Total For: WESTERN STATES EQUIPMENT CO					\$59.90

Vendor: ZERO DB COMMUNICATIONS LLC

2.5.25.14	EMERG. DISPATCH FIBER REPAIRS - 519 LAKE ST FIBER OPTIC NETWORK FIBER OPTIC NETWORK	TECH SERVICES - FIBER BREAK/FIX SERVICES TECH SERVICES - FIBER BREAK/FIX SERVICES	1,400.00 900.00		\$2,300.00
Total For: ZERO DB COMMUNICATIONS LLC					\$2,300.00

Vendor: ZIPLY FIBER

1464 - 012225	1464 PHONE CHGS - EXXON LIFT 01.22.25-02.21.25 WASTEWATER COLLECTIONS WASTEWATER TREATMENT CITY BEACH CONCESSIONS RECREATION PROGRAMS POLICE DEPARTMENT	TELEPHONE - LANDLINE & OTHER TELEPHONE - LANDLINE & OTHER TELEPHONE - LANDLINE & OTHER TELEPHONE - LANDLINE & OTHER TELEPHONE - LANDLINE & OTHER	201.39 60.42 60.41 60.42 60.41		\$664.64
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Invoice Number	Invoice Description Department/Division	GL Account Description	Line Item Amount	Invd	Item # 2.
	WATER TREATMENT	TELEPHONE - LANDLINE & OTHER	201.39		
	STREET MAINTENANCE DIVISION	TELEPHONE - LANDLINE & OTHER	20.20		
3469 - 012525	3469 PHONE CHGS - TURTLE ROCK - 01.25.25-02.24.25				\$69.28
	WATER TREATMENT	TELEPHONE - LANDLINE & OTHER	69.28		
6269 - 012225	6269 PHONE CHGS - 911 TRANSFER - 01.25.25-02.24.25				\$13.80
	POLICE DEPARTMENT	TELEPHONE - LANDLINE & OTHER	13.80		
263-6708-07241	6708 - PHONE CHGS - CITY HALL DSL 01.22.25-02.21.25				\$105.00
	INFORMATION TECHNOLOGY DIVISION	TELEPHONE - LANDLINE & OTHER	105.00		
0989 - 012525	0989 - PHONE CHGS 01/25/25-02/24/25				\$75.95
	WASTEWATER COLLECTIONS	TELEPHONE - LANDLINE & OTHER	75.95		
0918 - 012225	0918 - PHONE CHGS-FISHBACK 01/22/25-02/21/25				\$76.00
	WASTEWATER COLLECTIONS	TELEPHONE - LANDLINE & OTHER	76.00		
Total For: ZIPLY FIBER					\$1,004.67

Vendor: ZW USA INC

747222	MUTT MITTS - DOG WASTE BAGS FOR PARKS				\$7,920.00
	PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	1,980.00		
	GOVERNMENT BUILDING & GROUNDS DIVISION	OPERATIONAL SUPPLIES/EQUIPMENT	1,980.00		
	PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	990.00		
	PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	990.00		
	PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	990.00		
	PARK MAINTENANCE & CAPITAL	OPERATIONAL SUPPLIES/EQUIPMENT	990.00		
Total For: ZW USA INC					\$7,920.00

Grand Total: \$1,026,989.52

Councilor Signature: _____ Date: _____

Councilor Name: DEB RUEHLE



AGENDA REPORT

City Council Meeting

TODAY'S DATE: February 6, 2025

MEETING DATE: February 19, 2025

TO: Mayor & City Council

FROM: Sarah Lynds, Finance Director/Treasurer

SUBJECT: FY 2025 1st Quarter Financial Report Review (for information only)

DESCRIPTION/BACKGROUND:

Idaho Statute 50-1011 requires the Treasurer to publish quarterly financial statements on the City's website.

The quarterly report is required to show specific information.

- 1.) A full statement for each fund reflecting year to date
- 2.) The balances of the debits and credits belonging to each category:
 - a. Salaries
 - b. Maintenance and Operations
 - c. Capital Outlay
- 3.) A percentage comparison to the original appropriation.

REPORT REVIEW:

To highlight a few areas of the quarterly report - the fiscal year is 25% complete as of December 31, 2024 and our budget is in good shape. The construction season is not underway with the exception of a few isolated projects and the funds/budgets associated with these expenditures are showing low budget to actuals.

EXPENSES:

The General Fund is 12.02% expended as a whole, but a closer look at separate categories reflects 18.34% in personnel services, 9.65% in Operations and 2.47% in Capital outlay.

Garbage, Water and Wastewater funds are at 24.25%/9.11%/9.22% budget to actual for total expenditures. Water and Wastewater salaries and benefits are 12.89% and 17.41% budget to actual. Water and Wastewater capital outlay expenditures are at 1.94% and 95.35% with the majority of expenditures expected to come in the construction season later in the fiscal year.

REVENUES:

The construction season normally begins towards the end of the 3rd quarter of the fiscal year. Capital outlay budget to actual expended percentages reflect a low completion status. Several of the FY25 capital projects are being funded with beginning cash balances, this is reflective in the revenue account called 'Other Financing Sources' that is across the applicable funds.

Revenues for the General Fund are 6.6% budget to actual. Revenues include \$1,916,681 of beginning cash and \$1,000,000 grant revenue placeholder, after removing these the General Fund revenue budget to actual is 7.62%. The City's largest single source of revenue, property taxes, is at 3.2% received. Property taxes are received monthly paid with the largest remittance in January (2nd Quarter) and the second largest in July (4th quarter).

State and Local Government Shared Revenues (0% and 1.8%) are received quarterly (January, April, July and the final quarter in October).

Water and Wastewater fund revenue overall is 10.45%/12.69% budget to actual. Water includes \$4,836,251 of beginning cash, after removing this the budget to actual is 19.8%. Wastewater includes \$6,894,000 of beginning cash, after removing this the budget to actual revenues is 28.1%.

The Park Improvement Fund includes \$992,653 of beginning cash in revenue, after removing this the revenue budget to actual is 4.2%.

CAPITAL:

The FY25 Capital Improvement Plan has budgeted \$23,261,500 across 31 projects. At the end of the 1st quarter these projects are expended at 11.56% which is \$2,690,081.

Public Works Project update provided by Holly Ellis, Public Works Director:

- The Bridge Street Rehabilitation & Reconstruction is currently in construction, anticipated to continue through March. The project is expected to be completed on time & within budget.
- The Ontario Street/Highway 2 (US-2) project efforts have not begun.
- The Road Reconstruction & Seal Coating Projects started in fall of FY25 with a mill and overlay pavement maintenance on Fourth Ave. More maintenance is anticipated this summer.
- The Short Term East-West Connection, otherwise known as the Pine St and Fifth Avenue Signal Project, began in late summer of FY24 and continued through fall of FY25. The project is in closeout and is expected to be completed on time & within budget.
- The Sidewalk and Bike Path Project efforts have not begun. Construction is anticipated this summer.
- The Cedar Street Reconstruction project is currently in design. Construction is anticipated this summer.
- The Great Northern Road Corridor Improvements project completed 60% design.

Community Planning and Development Project update provided by Jason Welker, Community Planning and Development Director:

- The James E. Russell Sports Center project is 99% complete with only a few punch items and the landscaping to be completed by June 15, 2025.

- The Travers Park Inclusive Playground & Splash Pad project is 84% complete with a punch list of constructions items including the splash pad, landscaping and park amenities to be finished in the spring.
- The Memorial Grandstand HVAC replacement project is currently in the engineering phase of the project with the 3 units projected to be replaced later in the fiscal year.
- The Park Master Plan Identified Projects includes the resurfacing of the outdoor tennis courts and landscaping between the tennis courts and skate park is scheduled for construction in the summer of 2025. In addition, two grant applications were recently submitted to the Idaho Park and Recreation for projects at City Beach.

STAFF RECOMMENDATION and ACTION:

Acknowledgement and acceptance of these reports (for information only)

ATTACHMENTS:

- FY25 1st Quarterly Financial Report
- FY25 1st Capital Improvement Plan Financial Report

LINK TO ELECTRONIC FINANCIAL TRANSPARENCY:

<https://sandpoint-id.cleargov.com/>

City of Sandpoint
 Quarterly Financial Report
 Budget for Fiscal Year Ending **September 30, 2025**
 Financial Report by Fund - Budget to Actual

FUND	Original Budget	December 2024 YTD	Percent of Year 25% - Budget to Actual
01 General Fund Revenues	21,748,215	1,435,371	6.60%
General Fund Expenditures	21,748,215	2,614,223	12.02%
Salaries & Benefits	8,687,318	1,593,325	18.34%
Operations	9,714,804	937,701	9.65%
Capital Outlay	3,344,300	82,753	2.47%
Transfers	1,793	443	24.71%
04 Fiber Optic Network Fund Revenues	96,000	844	0.88%
Fiber Fund Expenditures	96,000	14,818	15.44%
Operations	96,000	14,818	15.44%
05 Capital Projects Fund Revenues	1,455,500	124,836	8.58%
Capital Projects Fund Expenditures	1,455,500	334,780	23.00%
Operations	912,626	282,321	30.94%
Capital Outlay	542,874	52,459	9.66%
06 Recreation Fund Revenues	647,777	43,427	6.70%
Recreation Fund Expenditures	647,777	85,399	13.18%
Salaries & Benefits	524,250	57,576	10.98%
Operations	123,527	27,824	22.52%
08 Parks Improvement Fund Revenues	2,109,822	46,862	2.22%
Parks Fund Expenditures	2,109,822	1,603,340	75.99%
Salaries & Benefits	28,960	705	2.44%
Operations	145,862	88,605	60.75%
Capital Outlay	1,935,000	1,514,030	78.24%
25 Sanitation Collection Fund Revenues	820,346	189,611	23.11%
Sanitation Fund Expenditures	820,346	198,971	24.25%
Operations	645,000	152,597	23.66%
Transfers	175,346	46,374	26.45%
30 Water Fund Revenues	10,228,036	1,069,082	10.45%
Water Fund Expenditures	10,228,036	931,763	9.11%
Salaries & Benefits	1,460,547	188,209	12.89%
Operations	1,667,736	364,760	21.87%
Capital Outlay	5,157,000	99,793	1.94%
Transfers	1,942,753	279,002	14.36%
31 Wastewater Fund Revenues	12,559,750	1,593,317	12.69%
Wastewater Fund Expenditures	12,559,750	1,158,522	9.22%
Salaries & Benefits	1,085,211	188,920	17.41%
Operations	2,389,925	243,137	10.17%
Capital Outlay	7,862,000	420,817	5.35%
Transfers	1,222,614	305,649	25.00%
33 Debt Service Fund Revenues	826,750	8,440	1.02%
Debt Service Fund Expenditures	826,751	-	0.00%
61 LID Guarantee Revenues	-	329	

	LID Guarantee Fund Expenditures	-	-	
65	LID Funds Revenues	6,857	1,782	25.98%
	LID Funds Expenditures	6,857	-	0.00%
	Total City Revenues	50,499,053	4,513,899	8.94%
	Total City Expenditures	50,499,054	6,941,817	13.75%

Note: The City of Sandpoint detailed financial data can be found at <https://sandpoint-id.cleargov.com>.

The above report is required by Idaho Code Section 50-1011.

Budget for Fiscal Year Ending **September 30, 2025**
Summary Financial Report by Fund Type - Budget to Actual

	Original Budget	December 2024 YTD	Percent of Year 25% - Budget to Actual	
General Fund				
Revenues	21,748,215	1,435,371	6.60%	
Total General Fund Expenditures	21,748,215	2,614,223	12.02%	
Salaries & Benefits	8,687,318	1,593,325	18.34%	
Operations	9,714,804	937,701	9.65%	
Capital Outlay	3,344,300	82,753	2.47%	
Transfers	1,793	443	24.71%	
Special Revenue Funds				
Revenues	4,309,099	215,968	5.01%	
Total Special Revenue Expenditures	4,309,099	2,038,337	47.30%	
Salaries & Benefits	553,210	58,281	10.54%	
Operations	1,278,015	413,567	32.36%	
Capital Outlay	2,477,874	1,566,489	63.22%	
Transfers	-	-		
Enterprise Funds				
Revenues	24,434,882	2,860,450	11.71%	
Total Enterprise Fund Expenditures	24,434,883	2,289,257	9.37%	
Salaries & Benefits	2,545,758	377,129	14.81%	
Operations	5,529,412	760,493	13.75%	
Capital Outlay	13,019,000	520,609	4.00%	
Transfers	3,340,713	631,025	18.89%	
LID Debt Service Funds				
Revenues	6,857	2,110	30.77%	
Total LID Debt Service Fund Expenditures	6,857	-	0.00%	
	Total City Revenues	50,499,053	4,513,899	8.94%
	Total City Expenditures	50,499,054	6,941,817	13.75%

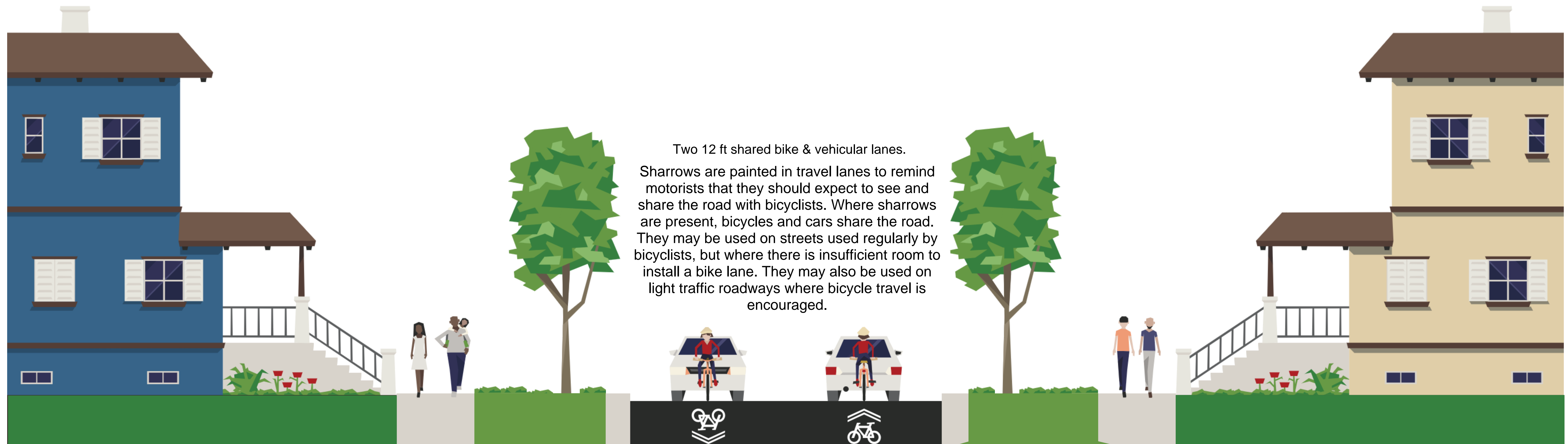
City of Sandpoint
Quarterly Capital Improvement Financial Report
 Budget for Fiscal Year Ending **September 30, 2025**
 Capital Improvement Financial Report by Project - Budget to Actual

Capital Project	Original Budget	December 2024 YTD	Percent of Year 25% - Budget to Actual
Streets & Sidewalk Projects			
Bridge Street Rehabilitation & Reconstruction	720,000	96,210	13.36%
Downtown Revitalization Phase III	775,000	1,018	0.13%
Ontario Street/Highway 2 (US-2)	600,000	-	0.00%
Road Reconstruction & Seal Coating Projects	400,000	56,399	14.10%
Short Term East-West Connection	200,000	265,391	132.70%
Sidewalk and Bike Path Projects	355,000	1,259	0.35%
Total Streets Capital & Projects	3,050,000	420,278	13.78%
Engineering Projects			
Cedar Street Reconstruction	1,900,000	65,152	3.43%
Great Northern Road Corridor Improvements	4,900,000	10,191	0.21%
Total Engineering Projects	6,800,000	75,343	1.11%
Water Projects			
Little Sandcreek Water Treatment Plan Pumps	150,000	-	0.00%
Little Sandcreek Watershed Management Plan, Timber Management Plan & Urban Forest Master Plan Projects	250,000	8,045	3.22%
Lower Diversion Upgrades	350,000	-	0.00%
Sandcreek Water Treatment Plant Repair	420,000	110	0.03%
VAC Truck and 6 YD Dump Truck	850,000	-	0.00%
Water Meter Replacement Program	300,000	-	0.00%
Water Treatment Generators	500,000	274	0.05%
Watermain Projects	720,000	-	0.00%
Woodland Booster Pump Station Replacement	200,000	8,440	4.22%
Total Water Projects	3,740,000	16,868	0.45%
Wastewater Projects			
I &I Reduction - Lateral and Manhole Rehab/ Replacement	365,000	550	0.15%
Wastewater Lift Station Improvements	2,600,000	47,373	1.82%
Wastewater Main Line Replacement	700,000	-	0.00%
Wastewater SCADA	684,000	321,065	46.94%
Wastewater Treatment Facility Phased Reconstruction	2,600,000	107,307	4.13%
Total Wastewater Projects	6,949,000	476,295	6.85%
General Government Projects			
Downtown Parking Lot Improvements	150,000	300	0.20%
Police Projects			
Police Vehicles & Communication	120,000	82,176	68.48%
Parks and Recreation Projects			
James E Russell Sports Center at Travers Park	800,000	1,073,514	134.19%
Memorial Grandstand HVAC	84,000	-	0.00%
Parks Land Purchase	300,000	-	0.00%
Parks Master Plan Identified Projects - Grant Match	600,000	-	0.00%
Travers Park Inclusive Playground and Splash Pad	568,500	545,309	95.92%
Total Park and Recreation Projects	2,352,500	1,618,822	68.81%
Fire Projects			
SCBA Air Compressor	100,000	-	0.00%
Total Capital Improvement Plan Expenditures	23,261,500	2,690,081	11.56%

Note: Please click [here](#) to visit our City Website Project page for additional detail on City of Sandpoint projects.

Cedar Street Reconstruction Project - Preliminary Design

Road reconstruction on Cedar Street between Division and Lincoln Ave
Construction Starting Summer 2025



Two 12 ft shared bike & vehicular lanes.

Sharrows are painted in travel lanes to remind motorists that they should expect to see and share the road with bicyclists. Where sharrows are present, bicycles and cars share the road. They may be used on streets used regularly by bicyclists, but where there is insufficient room to install a bike lane. They may also be used on light traffic roadways where bicycle travel is encouraged.

Sidewalk
6ft wide



Did you know that the City of Sandpoint has a Complete Streets Policy? This policy commits streets to be designed and operated to enable safe access for all modes of transportation. On Collector Street's, the City's Standard is to have 6ft wide sidewalk on both sides of the street.

Green Strip

Area for tree planting, stormwater, and snow storage.



Situated between the sidewalk and the curb, green strips are used for planting trees or smaller plants. This area offers numerous benefits including:

- **Environmental:** The trees and plants in these areas helps filter pollutants, provides oxygen, and can mitigate the urban heat island effect.
- **Social:** Green Strips or planter strips enhance the visual appeal of a neighborhood and serve as a buffer to create a more comfortable experience for pedestrians.
- **Stormwater Management:** This area can provide a natural filter for stormwater, slowing down runoff water and trapping sediment and pollutants before they reach waterways, improving water quality by filtering out debris and allowing some infiltration into the ground.
- **Snow Clearing:** This area serves as snow storage.

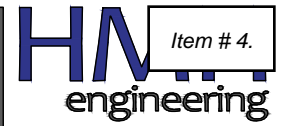
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CITY OF SANDPOINT, IDAHO

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CONTACT:

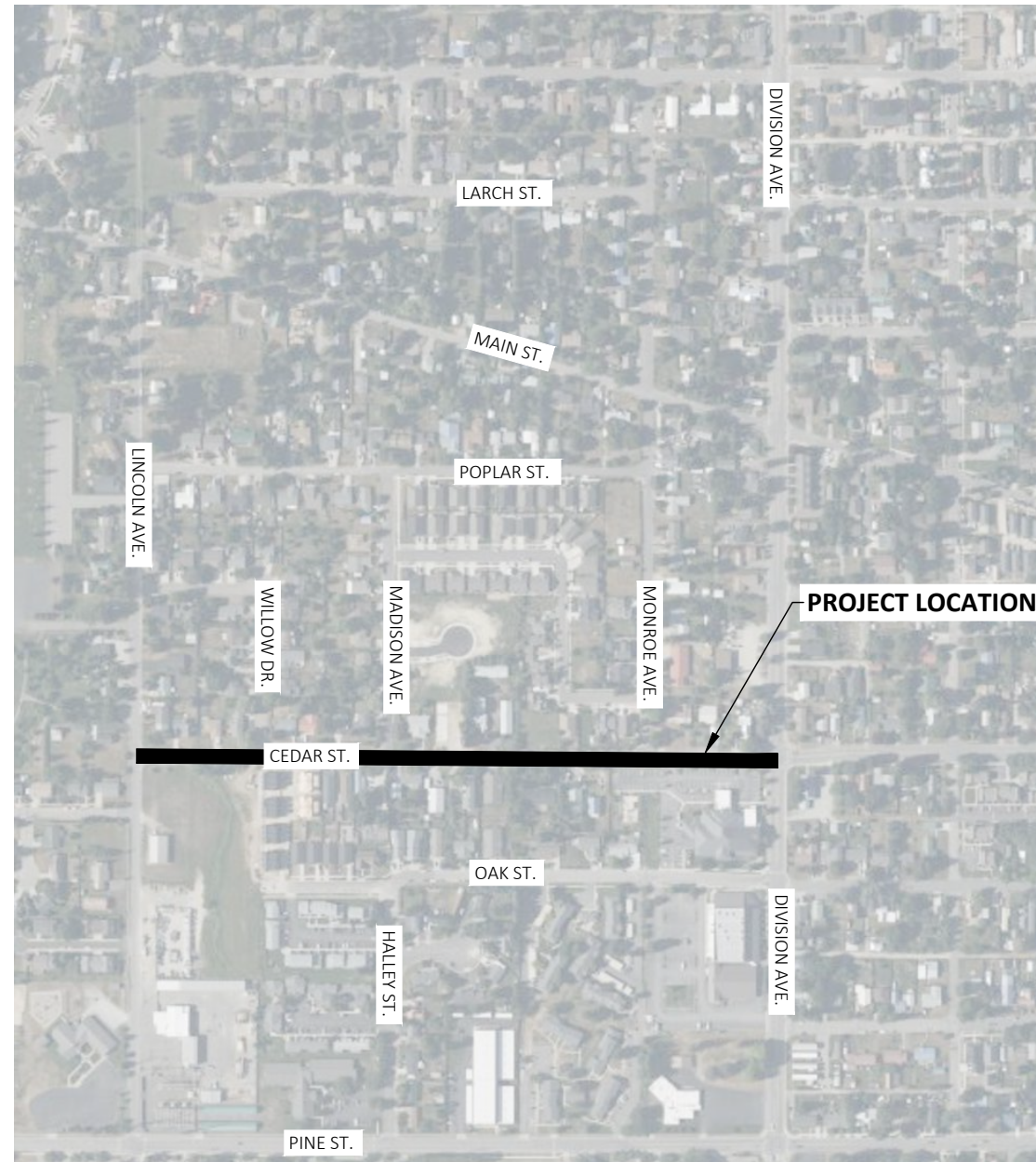
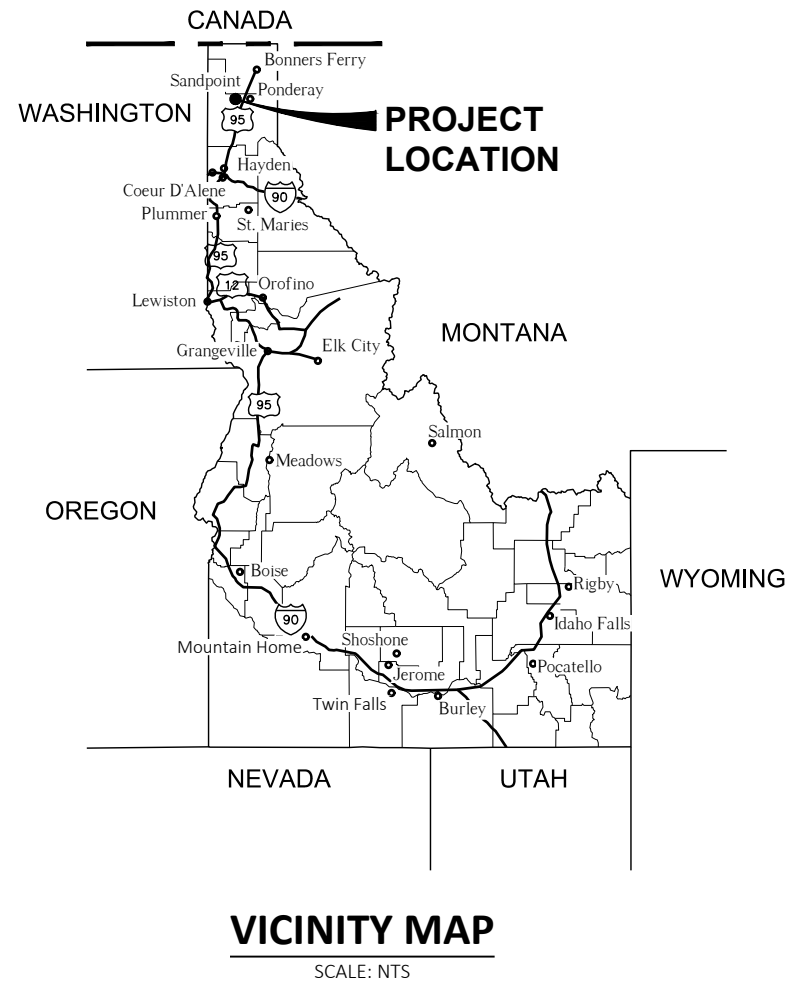
CITY OF SANDPOINT
 ADDRESS: 1123 LAKE ST, SANDPOINT, ID 83864
 PH: 208.263.3158



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CEDAR STREET RECONSTRUCTION
 CITY OF SANDPOINT, ID

COVER SHEET



PROJECT CONTACT INFORMATION

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 PROJECT NO: M24005
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DRAWING:

SHEET: 2 OF XX

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22	C2.06	CEDAR STREET ROADWAY P&P	STA. 21+75 TO STA. 24+50
23	C2.07	CEDAR STREET ROADWAY P&P	STA. 24+50 TO STA. 27+00

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29	C3.02	CEDAR STREET STORMWATER P&P	STA. 12+30 TO STA. 15+00
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31	C3.04	CEDAR STREET STORMWATER P&P	STA. 17+50 TO STA. 19+50
32	C3.05	CEDAR STREET STORMWATER P&P	STA. 19+50 TO STA. 22+00
33	C3.06	CEDAR STREET STORMWATER P&P	STA. 22+00 TO STA. 24+60
34	C3.07	CEDAR STREET STORMWATER P&P	STA. 24+60 TO STA. 27+00
35	C3.08	CEDAR STREET STORMWATER P&P	STA. 27+00 TO END
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38	C3.11	OFF-SITE STORMWATER P&P	STA. -4+50 TO STA. -2+00
39	C3.12	OFF-SITE STORMWATER P&P	STA. -2+00 TO STA. 0+50
40	C3.13	OFF-SITE STORMWATER P&P	STA. 0+50 TO STA. 2+50
41	C3.14	MADISON AVENUE STORMWATER P&P	STA. 0+00 TO END
42	C4.00	WATER MAIN OVERALL PLAN	
43	C4.01	CEDAR STREET WATER MAIN P&P	STA. 9+75 TO STA. 12+00
44	C4.02	CEDAR STREET WATER MAIN P&P	STA. 12+00 TO STA. 14+50
45	C4.03	CEDAR STREET WATER MAIN P&P	STA. 14+50 TO STA. 17+00
46	C4.04	CEDAR STREET WATER MAIN P&P	STA. 17+00 TO STA. 19+50
47	C4.05	CEDAR STREET WATER MAIN P&P	STA. 19+50 TO STA. 22+00
48	C4.06	CEDAR STREET WATER MAIN P&P	STA. 22+00 TO STA. 24+50



GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) CURRENT EDITION AND SANDPOINT CITY CODE. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- CLEAR AND GRUB TO THE LIMITS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ISPMC SECTION 201. REMOVE ALL DEBRIS, TREES, STUMPS, BRUSH, GRASSES, ROOTS, ORGANIC SOIL, EXISTING FILL OR ANY OTHER DELETERIOUS MATERIAL AS INDICATED. ONSITE DISPOSAL OF ORGANIC MATERIALS IS NOT ALLOWED WITHOUT WRITTEN CONSENT OF THE OWNER.
- EXISTING PROPERTY CORNERS OR SURVEY MONUMENTS SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS SHALL BE RE-ESTABLISHED BY PROFESSIONAL SURVEYORS, LICENSED TO WORK IN THE STATE OF IDAHO, PRIOR TO FINAL ACCEPTANCE, AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES SHALL BE LOCATED BY CONTACTING CALL BEFORE YOU DIG AT 811, AT LEAST 48 HOURS PRIOR TO STARTING ANY EARTHWORK ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY PROVIDERS PRIOR TO STARTING ANY WORK NEAR ANY FACILITIES AND SHALL COORDINATE THEIR WORK WITH UTILITY REPRESENTATIVES.
- THE CONTRACTOR SHALL MAINTAIN STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USEABLE CONDITION. ALL SOIL, ROCK, OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USEABLE CONDITION.
- PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
- DETOUR ROUTES SHALL BE MAINTAINED IN SAFE AND USEABLE CONDITION AND SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
- A NOTICE OF INTENT (NOI) WITH THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ) SHALL BE FILED. A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND NOI SHALL BE PROVIDED TO THE ENGINEER AND CITY OF SANDPOINT PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION. **swppp?**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPOSED TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD CURRENT EDITION AND CITY OF SANDPOINT REQUIREMENTS. AT LEAST 48 HOURS PRIOR TO ANY PROPOSED TRAFFIC DISRUPTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS TO THE ENGINEER AND CITY OF SANDPOINT FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL APPROVAL IS GRANTED AND ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROJECT INSPECTIONS AND TESTS, INCLUDING MATERIALS TESTING AND QUALITY CONTROL. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY OF SANDPOINT PRIOR TO FINAL ACCEPTANCE.
- ALL DIMENSIONS SHOWN ARE TO CENTER OF PIPE OR FLOWLINE UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS ARE TOP OF CONCRETE, TOP OF ASPHALT, OR CURB FLOWLINE UNLESS NOTED OTHERWISE.

EARTHWORK AND GRADING NOTES:

- ALL CUTS AND FILLS SHALL BE CONFINED TO THE LIMITS INDICATED ON THE PLANS.
- EXCAVATED MATERIAL MAY BE INCORPORATED INTO THE WORK AS BORROW AT THE DISCRETION OF THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY SLOPES ARE STABLE AND THAT APPROPRIATE EROSION CONTROL MEASURES ARE IN PLACE AND MAINTAINED.
- DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH ISPMC REQUIREMENTS. ALL COMPACTION EFFORTS SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOIL TECHNICIAN REPRESENTING THE CONTRACTOR.
- ENGINEERED FILLS SHALL CONFORM TO THE REQUIREMENTS OF THE ISPMC, PLANS AND SPECIFICATIONS. THE ENGINEER SHALL REVIEW AND APPROVE ALL IMPORT AGGREGATE SOURCES AND PRODUCTS PRIOR TO INCORPORATION INTO THE WORK.
- ALL FILL MATERIAL SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE PRIOR TO PLACEMENT. LIFTS SHALL NOT EXCEED EIGHT INCHES LOOSE THICKNESS. ALL FILL SHALL BE COMPACTED TO ISPMC OR PROJECT SPECIFICATIONS. ANY FILL MATERIAL TOO COARSE TO TEST, SHALL BE PLACED IN CONTROLLED LIFTS UNDER A PERFORMANCE-BASED METHOD, AS OUTLINED WITHIN THE ISPMC.
- NO FILL SHALL BE PLACED ON FROZEN OR SNOW-COVERED GROUND. PLACEMENT OF FROZEN FILL IS NOT ALLOWED.
- FILL PLACED ON SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL SHALL BE KEYED INTO THE UNDISTURBED GROUND WITH HORIZONTAL BENCHES HAVING A VERTICAL FACE APPROXIMATELY 1 FOOT IN HEIGHT. SLOPE EACH BENCH TO DRAIN.
- IMPORTED FILL MATERIAL SHALL CONFORM TO THE FOLLOWING:
 - ROCK CAP SHALL BE IN ACCORDANCE WITH THE 2023 IDAHO TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
3 INCH	100
1 1/2 INCH	55 - 85
3/4 INCH	10 - 35
1/2 INCH	5 - 15
#4	0 - 5

- TOP COURSE SHALL BE IN ACCORDANCE WITH THE ISPMC, CRUSHED AGGREGATE FOR BASE, TYPE I AND MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	90 - 100
#4	40 - 65
#8	30 - 50
#200	3 - 9

- PRIOR TO REQUESTING OBSERVATION OF THE FINISHED ROCK CAP, RED TOP STAKES SET TO FINISHED ROCK CAP ELEVATION, SHALL BE PLACED AT FIFTY FOOT (50') STATIONING ON CURVES AND ONE HUNDRED FOOT (100') STATIONING ON TANGENTS AT CENTERLINE AND SHOULDERS.
- PRIOR TO REQUESTING OBSERVATION OF THE FINISHED TOP COURSE MATERIAL, BLUE TOP STAKES WILL BE SET TO FINISHED BASE ELEVATIONS AT FIFTY FOOT (50') STATIONING ON CURVES AND ONE HUNDRED FOOT (100') STATIONING ON TANGENTS AT CENTERLINE AND SHOULDERS.

HOT MIX SURFACING NOTES:

- ASPHALT PAVEMENT SHALL CONFORM WITH IDAHO TRANSPORTATION DEPARTMENT (ITD) SPECIFICATIONS FOR SUPERPAVE. PAVEMENT SHALL BE SP3 PG 58-28 WITH 1/2" MAX AGGREGATE SIZE. PAVEMENTS WITH A SECTION OF 3" OF LESS MAY BE PLACED IN ONE LIFT. PAVEMENTS WITH A SECTION GREATER THAN 3" SHALL BE PLACED IN MULTIPLE LIFTS. MINIMUM LIFT THICKNESS OF 1.5" AND MAXIMUM LIFT THICKNESS OF 3". MIX DESIGN MUST BE SUBMITTED TO THE ENGINEER AND CITY OF SANDPOINT FOR APPROVAL.
- NO ASPHALT SHALL BE PLACED ON WET OR FROZEN GROUND, OR WHEN WEATHER OR SURFACE CONDITIONS WILL OTHERWISE PREVENT THE PROPER HANDLING OR FINISHING OF THE SUPERPAVE HMA MATERIAL. PLACE SUPERPAVE HMA AS SPECIFIED IN THE TEMPERATURE LIMITATIONS IN ISPMC SECTION 810, TABLE 4.
- DURING PAVING OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION AND QUALITY CONTROL TESTING. ALL TESTING SHALL BE PERFORMED BY A QUALIFIED TECHNICIAN. THE PAVEMENT SHALL BE COMPACTED IN ACCORDANCE WITH ISPMC SECTION 810.
- EXTRACTION CORING AND GRADATION TESTS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER TO VERIFY PAVEMENT THICKNESS, COMPACTION AND MATERIALS.
- THE FINAL SURFACE SHALL BE OF A UNIFORM TEXTURE AND SHALL CONFORM TO LINES AND GRADES SHOWN ON THE PLANS. BOTH DENSITY AND THICKNESS SHALL BE CAREFULLY CONTROLLED DURING CONSTRUCTION AND SHALL BE IN FULL COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. ALL UNSATISFACTORY WORK SHALL BE REPAIRED, REPLACED, OR CORRECTED.
- A 10-FOOT STRAIGHTEDGE SHALL BE USED TO TEST THE FINISHED SURFACE IN SUCCESSIVE POSITIONS, PARALLEL AND PERPENDICULAR TO THE STREET CENTERLINE, IN CONTACT WITH THE SURFACE AND THE ENTIRE AREA CHECKED FROM ONE SIDE TO THE OTHER. ADVANCES ALONG THE PAVEMENT SHALL BE IN SUCCESSIVE STAGES OF NOT MORE THAN THE LENGTH OF THE STRAIGHTEDGE.
- IRREGULARITIES WHICH MAY DEVELOP BEFORE THE COMPLETION OF ROLLING SHALL BE REMEDIATED BY LOOSENING THE SURFACE MIX AND REMOVING OR ADDING MATERIALS AS MAY BE REQUIRED. ANY IRREGULARITIES OR DEFECTS WHICH ARE FOUND AFTER THE FINAL ROLLING, WHICH VARY MORE THAN 0.02 FEET IN 10 FEET FOR SURFACE COURSES SHALL BE CORRECTED. ALL MINOR SURFACE PROJECTIONS, JOINTS AND MINOR HONEYCOMBED SURFACES SHALL BE REPAIRED SMOOTH TO GRADE, AS MAY BE DIRECTED BY THE ENGINEER AND CITY OF SANDPOINT.

SIGNAGE AND STRIPING NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) CURRENT EDITION.
- PERMANENT TRAFFIC SIGNAGE SHALL BE STEEL POST IN ACCORDANCE WITH ISPMC SECTION 1105 AND SD-1130.
- ALL PERMANENT SIGNAGE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION IN SHAPE, COLOR, AND SIZE.
- PERMANENT PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ISPMC SECTION 1104. ALL MARKINGS SHALL BE PAVEMENT PAINT (WATER BORNE) UNLESS NOTED OTHERWISE.



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SEWER NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) CURRENT EDITION AND THE CITY OF SANDPOINT SEWER RULES AND REGULATIONS 2023. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- SANITARY SEWER MANHOLES SHALL BE PER ISPMC SECTION 502 AND ISPMC SD-501 AND SD-501A WITH CITY OF SANDPOINT CUSTOM FRAME AND LID.
- ALL SEWER PIPE AND FITTINGS SHALL BE PVC MEETING ASTM D 3034 SDR 35.
- SANITARY SEWER SERVICE JOINTS SHALL BE SOLVENT WELDED.
- SANITARY SEWER SERVICES SHALL BE INSTALLED WITH A MINIMUM DEPTH OF AT LEAST THREE AND ONE HALF (3.5) FEET OF COVER IN ALL PUBLIC WAYS OR OTHER LOCATIONS WHERE THE WEIGHT OF VEHICULAR TRAFFIC MIGHT CRUSH THE PIPE AND NOT LESS THAN THREE (3) FEET OF COVER IN ALL OTHER AREAS.
- BEDDING SYSTEM SHALL BE CLASS A-1 PER ISPMC SECTION 305 AND MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	90 - 100
#4	40 - 65
#8	30 - 50
#200	3 - 9
- IMPORTED TRENCH BACKFILL IS REQUIRED AND SHALL BE IN ACCORDANCE WITH ISPMC SECTION 306.
- DISRUPTION OF EXISTING SEWER SERVICES WHILE MAKING CONNECTION TO EXISTING MAINS IS PROHIBITED, WITHOUT SPECIFIC APPROVAL FROM THE CITY OF SANDPOINT.
- ALL SEWER MAIN AND MANHOLE FLUSHING, TESTING, AND INSPECTION SHALL BE COMPLETED IN ACCORDANCE WITH ISPMC SECTION 501 AND 502 RESPECTIVELY.
- ASBUILT PLANS SHALL SHOW ALL SERVICES WITH STATIONING, OFFSET, AND DEPTH.

WATER NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) CURRENT EDITION AND THE CITY OF SANDPOINT WATER RULES AND REGULATIONS 2023. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- WATER MAINS GREATER THAN 12 INCHES IN DIAMETER SHALL BE PVC AWWA C905, DR 18 PIPE AND SHALL UTILIZE BUTTERFLY VALVES. WATER MAINS LESS THAN 12 INCHES IN DIAMETER SHALL UTILIZE C900, DR 18 PIPE AND SHALL UTILIZE GATE VALVES. ALL WATER MAINS SHALL BE CONSTRUCTED WITH THE TOP OF PIPE FIVE (5) FEET BELOW FINISH GRADE, EXCEPT WHERE OTHERWISE INDICATED WITH SPECIFIC ELEVATIONS AND APPROVED BY THE ENGINEER AND CITY OF SANDPOINT.
- WATER SERVICES SHALL BE CONSTRUCTED OF POLYETHYLENE TUBING CONFORMING TO AWWA C901, 250 PSI LOCATED AND SIZED AS SHOWN ON THE CONSTRUCTION PLANS. ALL WATER SERVICES SHALL BE CONSTRUCTED WITH THE TOP OF PIPE FOUR (4) FEET BELOW FINISH GRADE AND OFFSET FROM A PROPERTY LINE BY FIVE (5) FEET, UNLESS NOTED OTHERWISE.
- 48 HOURS PRIOR TO DISRUPTION, SHUT-OFF, OR CONNECTION TO AN EXISTING WATER MAIN, THE CONTRACTOR SHALL INFORM AND RECEIVE APPROVAL FROM THE CITY OF SANDPOINT. ANY CONNECTION POINTS SHALL BE EXPOSED AT LEAST 24 HOURS PRIOR TO CONNECTION, TO VERIFY LOCATION AND FITTING REQUIREMENTS.
- AT LEAST 24 HOURS PRIOR TO SHUT-OFF, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PROPERTIES UTILIZING FLYERS, DOOR HANGERS, OR LETTERS. NOTIFICATIONS SHALL CONTAIN AT A MINIMUM: DATE AND TIME OF SHUT-OFF, ANTICIPATED DURATION, CONTRACTOR'S NAME AND PHONE NUMBER, AND AN EMERGENCY CONTACT PERSON AND PHONE NUMBER. A COPY OF THE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER AND CITY OF SANDPOINT.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE, WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY OF SANDPOINT.
- ANY AND ALL FITTINGS OR APPURTENANCES REMOVED FROM THE CITY OF SANDPOINT WATER SYSTEM AS PART OF THE PROJECT SHALL BE SALVAGED AND RETURNED TO THE CITY OF SANDPOINT WATER DIVISION BY THE CONTRACTOR AT THE CITY'S DISCRETION. OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL.
- ALL WATER MAINS AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER WIRE AND PLASTIC MARKER TAPE. PLASTIC MARKER TAPE SHALL BE INSTALLED TWO (2) FEET ABOVE WATER MAINS. TRACER WIRE SHALL BE INSTALLED ALONG THE TOP OF THE WATER MAIN AND SHALL BE TESTED PRIOR TO SUBGRADE APPROVAL.
- ALL WATER LINES SHALL BE SEPARATED FROM SANITARY OR STORM SEWER SYSTEMS IN ACCORDANCE WITH ISPMC SD-407.
- BEDDING SYSTEM SHALL BE CLASS A-1 PER ISPMC SECTION 305 AND MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	90 - 100
#4	40 - 65
#8	30 - 50
#200	3 - 9
- IMPORTED TRENCH BACKFILL IS REQUIRED AND SHALL BE IN ACCORDANCE WITH ISPMC SECTION 306.
- MAXIMUM LIMITS OF WATER MAIN JOINT AND PIPE DEFLECTION SHALL BE OBTAINED FROM THE MANUFACTURER AND SUBMITTED TO THE ENGINEER AND CITY OF SANDPOINT PRIOR TO CONSTRUCTION.
- ALL THRUST BLOCKING SHALL BE FORMED IN PLACE AGAINST UNDISTURBED OR COMPACTED SOIL AND CONFORM TO THE MINIMUM DIMENSIONS SHOWN IN ISPMC SD-403. THE USE OF PRE-CAST THRUST BLOCKS IS PROHIBITED. ALL BOLTS AND NUTS SHALL BE FREE OF CONCRETE AND ACCESSIBLE BY A WRENCH.
- ALL WATER MAIN AND APPURTENANCE PRESSURE TESTING, FLUSHING, DISINFECTION AND TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ISPMC SECTION 401 REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY OF SANDPOINT AT LEAST 48 HOURS PRIOR TO TESTING AND OBTAIN APPROVAL PRIOR TO OPERATING VALVES TO PUT NEW MAINS INTO SERVICE.

- ALL WATER MAIN TAPS SHALL BE A MINIMUM OF 16 INCHES APART AND 16 INCHES FROM THE BELL AND STAB ENDS OF THE PIPE.
- PLACE 3M MID-RANGE MARKERS #1257 AT EACH WATER VALVE AND AT EACH WATER SERVICE CORP STOP.
- WATER SERVICE SADDLES SHALL BE ROMAC SST DOUBLE STRAP STAINLESS STEEL.
- WATER MAIN VALVE BOXES AND LIDS SHALL BE PER ISPMC SD-406. CAST IRON, TRAFFIC RATED IS REQUIRED. EXTEND TRACER WIRE UP TO THE TOP OF THE VALVE BOX.
- ASBUILT PLANS SHALL SHOW ALL SERVICES WITH STATIONING, OFFSET, AND DEPTH.



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EXISTING LEGEND:

	CURB AND GUTTER		FOUND 5/8" REBAR MONUMENT
	EXISTING BUILDING		FOUND IRON PIPE MONUMENT
	EXISTING ASPHALT		SANITARY SEWER MANHOLE
	EXISTING CONCRETE		STORM SEWER MANHOLE
	EXISTING GRAVEL DRIVEWAY		STORM CATCH BASIN SQUARE
	FENCE LINE		STORM CATCH BASIN ROUND
	STORM DRAIN LINE		POWER POLE
	8" STORM DRAIN LINE		GUY WIRE
	12" STORM DRAIN LINE		ELECTRIC VAULT
	18" STORM DRAIN LINE		ELECTRIC JUNCTION BOX
	UNDERGROUND POWER LINE		ELECTRIC METER
	OVERHEAD POWER LINE		LIGHT POLE
	GAS LINE		SIGN
	2" GAS LINE		GAS MARKER
	4" GAS LINE		GAS METER
	GAS SERVICE LINE		TELEPHONE MARKER
	FIBER OPTICS LINE		TELEPHONE VAULT
	6" WATER LINE		TELEPHONE RISER
	8" WATER LINE		WATER VALVE
	10" WATER LINE		WATER METER
	WATER SERVICE LINE		FIRE HYDRANT
	SANITARY SEWER LINE		SANITARY CLEANOUT
	8" SANITARY SEWER LINE		MAIL BOX
	18" SANITARY SEWER LINE		SPRINKLER
	RIGHT-OF-WAY LINE		WATER SPIGOT
	EASEMENT LINE		DECIDUOUS TREE
	ADJACENT PROPERTY BOUNDARY		CONIFEROUS TREE
	EXISTING GROUND CONTOURS		

PROPOSED LEGEND:

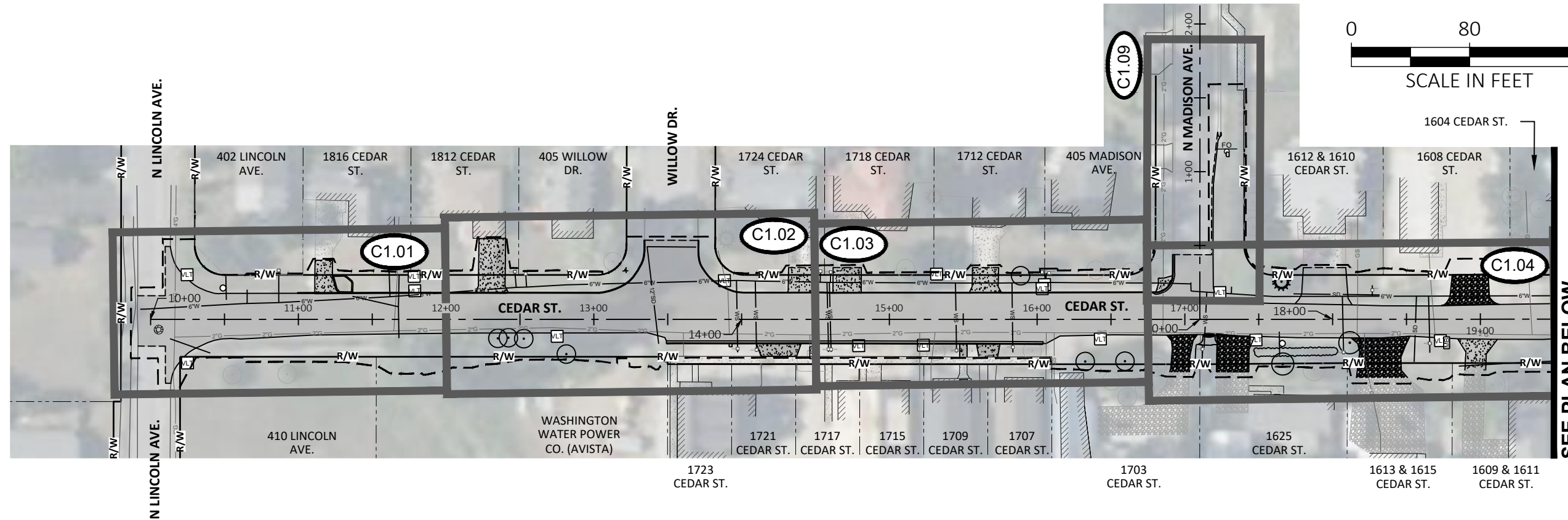
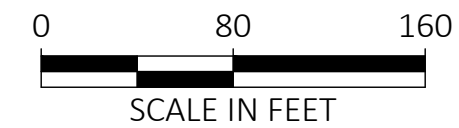
CONSTRUCTION LIMITS		STREET SIGN	
ROAD CENTERLINE		CURB INLET	
36" STORM DRAIN LINE		STORM DRAIN MANHOLE	
30" STORM DRAIN LINE		CATCH BASIN	
24" STORM DRAIN LINE		AREA DRAIN	
18" STORM DRAIN LINE		FIRE HYDRANT	
12" STORM DRAIN LINE		TEE	
8" STORM DRAIN LINE		BEND FITTING	
6" STORM DRAIN LINE		REDUCER	
4" PERFORATED STORM DRAIN LINE		GATE VALVE	
WATER MAIN		WATER METER	
WATER SERVICE			
CURB AND GUTTER			
ASPHALT SURFACE		TYPE 1 PEDESTRIAN RAMP	
CONCRETE SURFACE		TYPE 2 PEDESTRIAN RAMP	
GRAVEL SURFACE			
FINISH GRADE CONTOUR - MAJOR		TYPE 3 PEDESTRIAN RAMP	
FINISH GRADE CONTOUR - MINOR		TYPE 4 PEDESTRIAN RAMP	
ROADSIDE SWALE		TYPE 5 PEDESTRIAN RAMP	
CROSS WALK STRIPING - STEPLADDER		TYPE 6 PEDESTRIAN RAMP	
CROSS WALK STRIPING - PARALLEL			
CONCRETE DRIVEWAY APPROACH TYPE A (STANDARD WINGS)			
CONCRETE DRIVEWAY APPROACH TYPE B (SWALE INLET WITH APRON)			

ABBREVIATION LIST

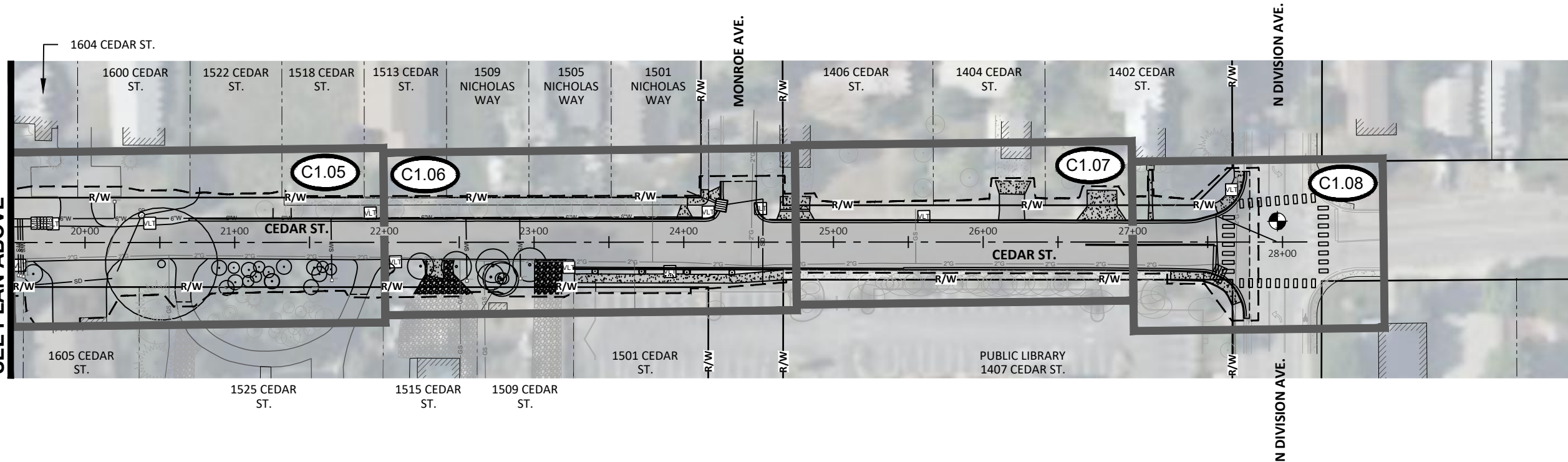
EG	EXISTING GROUND
FG	FINISH GRADE
FL	FLOW LINE
ME	MATCH EXISTING
TBC	TOP BACK OF CURB
TOC	TOP OF CONCRET
R/W	RIGHT OF WAY
P&P	PLAN AND PROFILE

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SEE PLAN BELOW



SEE PLAN ABOVE

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
DEMOLITION OVERALL PLAN

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG: M24005 - Demo Overall.dwg
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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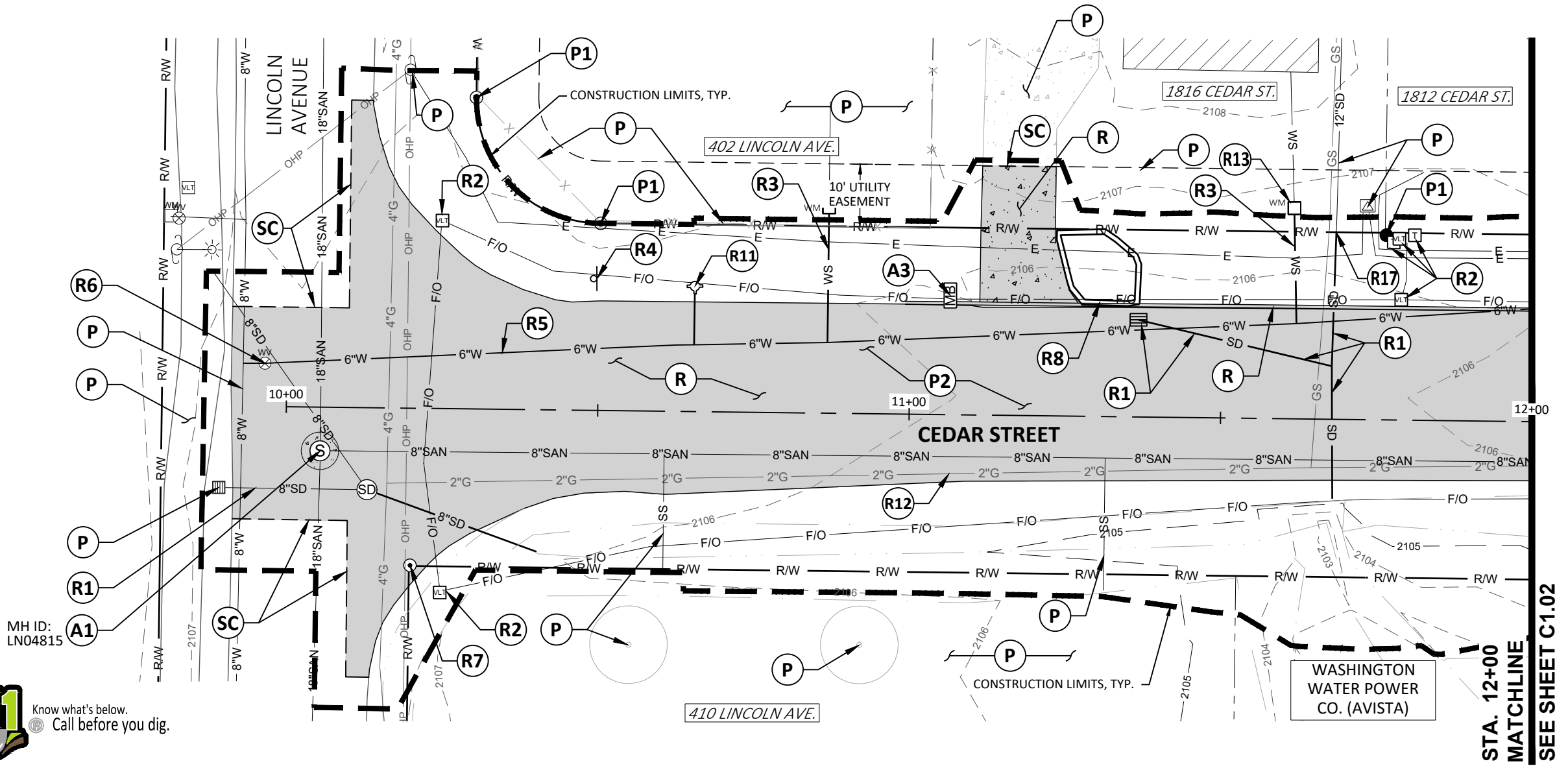
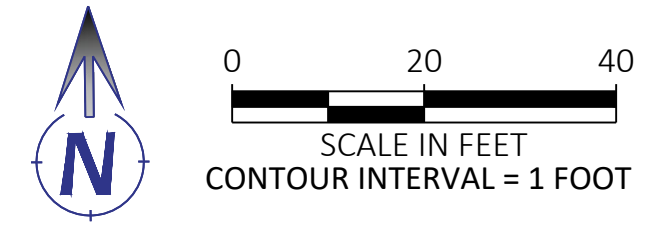
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DEMOLITION NOTES:

- (P)** CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE.
- (P1)** CONTRACTOR SHALL PROTECT PROPERTY CORNERS AND ROAD MONUMENTS DURING CONSTRUCTION. IF PROPERTY CORNER OR ROAD MONUMENT INDICATED ON PLAN IS DAMAGED OR REMOVED DURING CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO HAVE IT REPLACED BY A PROFESSIONAL LAND SURVEYOR.
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- (A1)** CONTRACTOR SHALL ADJUST EXISTING UTILITY STRUCTURE TO NEW FINISH GRADE ELEVATION. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (A3)** CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING MAILBOX. COORDINATE RELOCATION WITH THE PROPERTY OWNER AND THE CITY OF SANDPOINT. CONTRACTOR SHALL ENSURE MAIL AND PACKAGE DELIVERY DURING CONSTRUCTION.
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- (R)** CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE AND BASE MATERIAL TO NEW SUBGRADE ELEVATION FOR INSTALLATION OF NEW ROADWAY SECTION AND/OR DRIVEWAY. CONTRACTOR SHALL LEGALLY DISPOSE OF ASPHALT AND CONCRETE MATERIALS OFF-SITE. SEE ROADWAY PLANS FOR ELEVATIONS.
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- (R2)** CONTRACTOR REMOVE/RELOCATE EXISTING UTILITY STRUCTURE. COORDINATE WITH PURVEYOR FOR NEW LOCATION.
- (R3)** CONNECT EXISTING WATER SERVICE TO NEW WATER METER ONCE NEW WATER MAIN IS INSTALLED, TESTED, AND APPROVED. COORDINATE WORK WITH CITY OF SANDPOINT AND PROPERTY OWNER.
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- (R5)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, REMOVE OR ABANDON IN PLACE EXISTING 6" WATER MAIN. IF ABANDONING IN PLACE, FILL PIPE WITH FLOWABLE FILL TO PREVENT POSSIBLE FUTURE COLLAPSE AND SETTLEMENT. COORDINATE ALL WORK WITH THE CITY OF SANDPOINT. SEE WATER MAIN PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
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- (R8)** REMOVE EXISTING LANDSCAPING WITHIN PUBLIC RIGHT OF WAY. SEE ROADWAY PLANS FOR MORE INFORMATION.
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- (R14)** CUT AND CAP EXISTING SANITARY SEWER SERVICE PIPE AT THE SANITARY SEWER MAIN.
- (R17)** CUT EXISTING STORM PIPE WHERE INDICATED ON PLANS. SEE STORM PLANS FOR ADDITIONAL INFORMATION.
- (SC)** SAWCUT / LIMITS OF DEMOLITION MATERIALS REMOVAL. REMOVE CONCRETE TO NEAREST JOINT BEYOND SAWCUT LIMITS SHOWN WHERE APPLICABLE.

DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



476864 Highway 95, Suite 3
Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
DEMOLITION PLAN
STA. 9+75 TO STA. 12+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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DRAWING: 39
SHEET: --- OF XX

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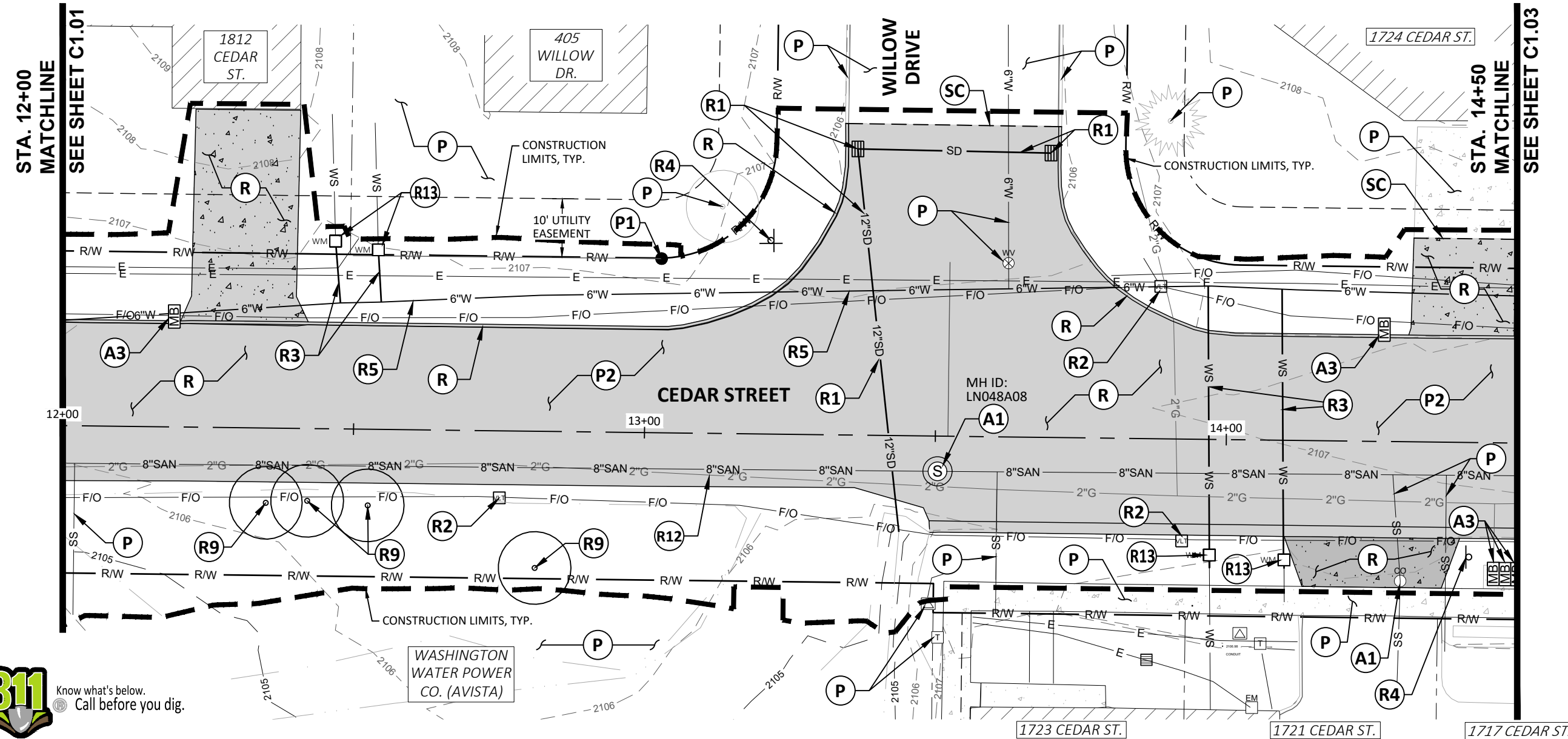
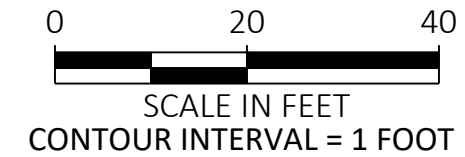
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- R9** REMOVE EXISTING TREES TO INCLUDE STUMPS AND LEGALLY DISPOSE OF OFFSITE.
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DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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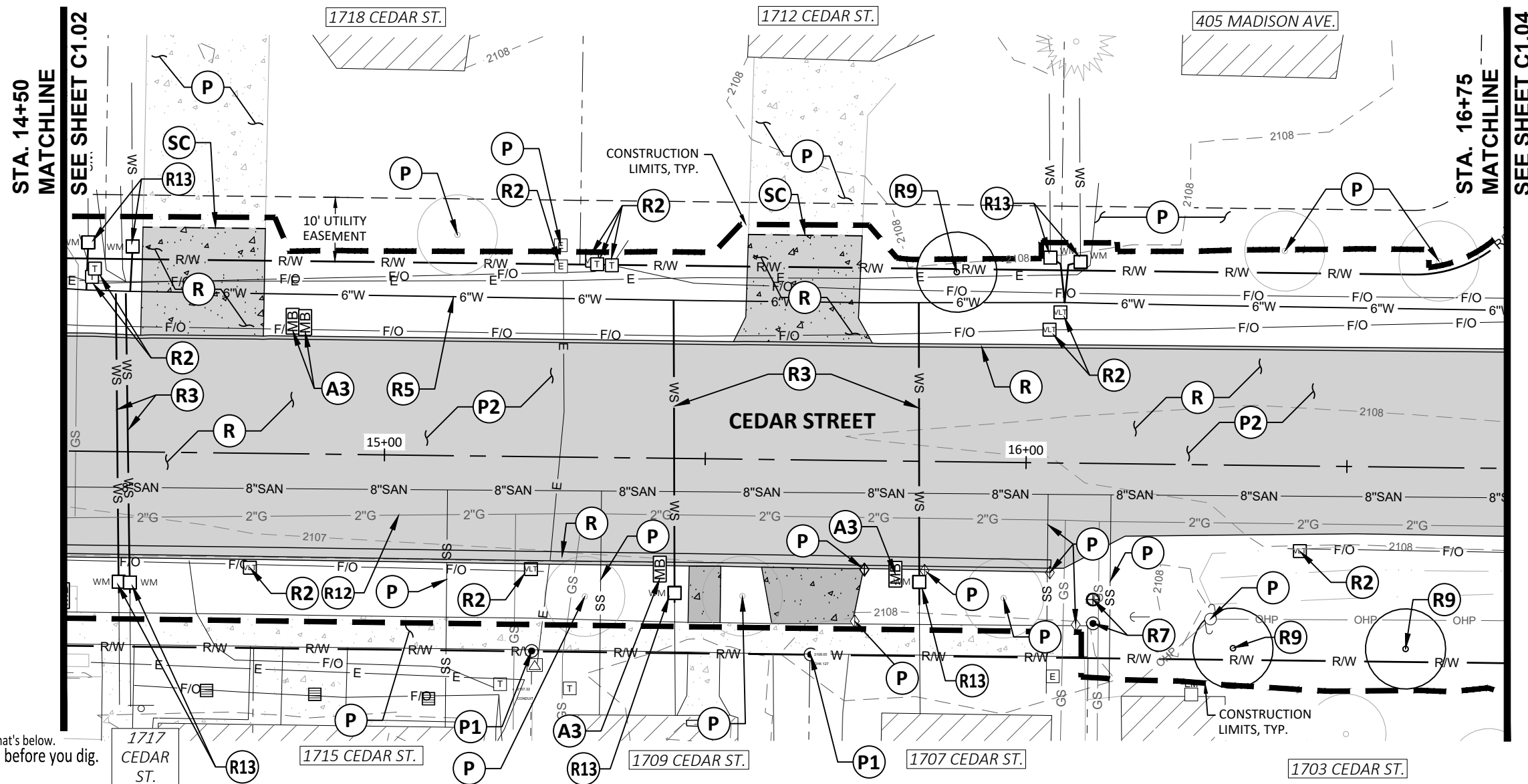
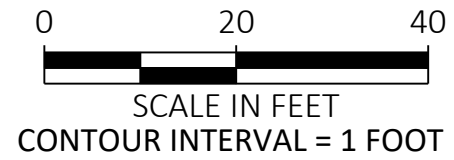
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- (R7)** CONTRACTOR IS RESPONSIBLE FOR PRESERVATION, REMOVAL, AND REPLACEMENT OF ALL EXISTING SURVEY MONUMENTS WITHIN THE WORK AREA IN ACCORDANCE WITH IDAHO CODE 55-1613. CONTRACTOR SHALL NOTIFY THE ENGINEER UPON RE-ESTABLISHMENT OF MONUMENTS.
- (R9)** REMOVE EXISTING TREES TO INCLUDE STUMPS AND LEGALLY DISPOSE OF OFFSITE.
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DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
DEMOLITION PLAN
STA. 14+50 TO STA. 16+75

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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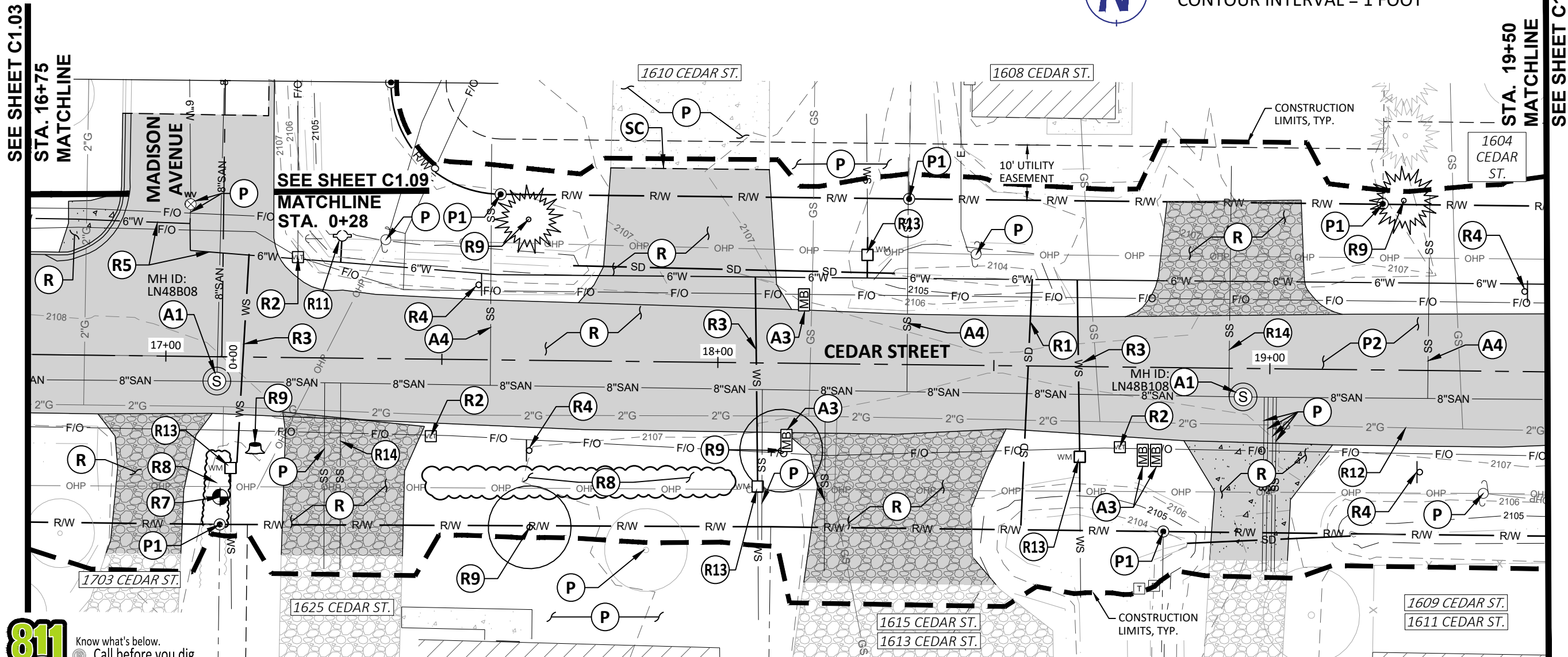
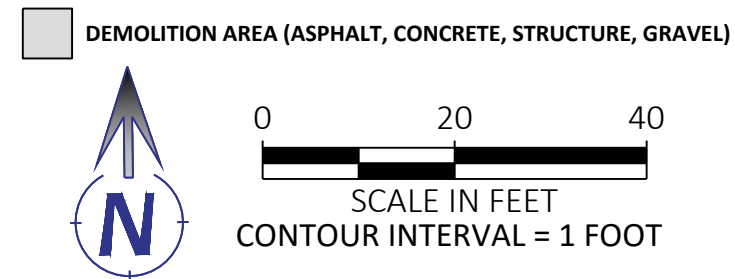
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476864 Highway 95, Suite 3
Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
DEMOLITION PLAN
STA. 16+75 TO STA. 19+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG: _____
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO.	DATE	BY	DESCRIPTION

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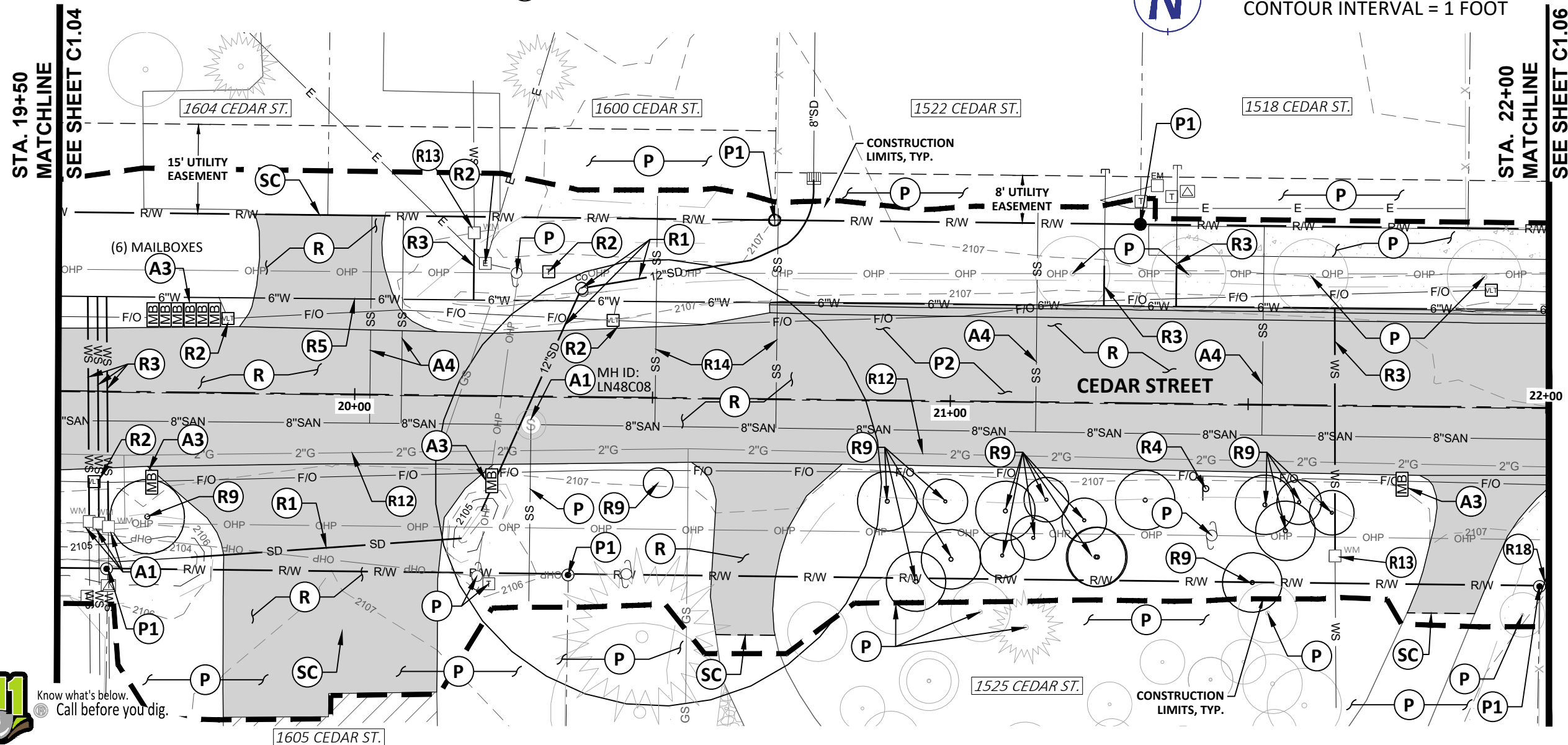
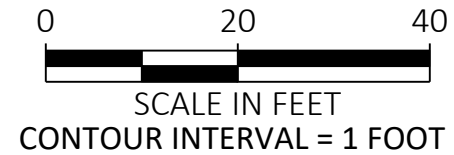
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- (A1)** CONTRACTOR SHALL ADJUST EXISTING UTILITY STRUCTURE TO NEW FINISH GRADE ELEVATION. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (A3)** CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING MAILBOX. COORDINATE RELOCATION WITH THE PROPERTY OWNER AND THE CITY OF SANDPOINT. CONTRACTOR SHALL ENSURE MAIL AND PACKAGE DELIVERY DURING CONSTRUCTION.
- (A4)** ADJUST SANITARY SEWER SERVICE LINE IF NECESSARY TO CLEAR NEW STORM MAIN. SEWER SERVICE LOCATION PER CITY SEWER CAMERA FOOTAGE.
- (R)** CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE AND BASE MATERIAL TO NEW SUBGRADE ELEVATION FOR INSTALLATION OF NEW ROADWAY SECTION AND/OR DRIVEWAY. CONTRACTOR SHALL LEGALLY DISPOSE OF ASPHALT AND CONCRETE MATERIALS OFF-SITE. SEE ROADWAY PLANS FOR ELEVATIONS.

- (R1)** CONTRACTOR SHALL REMOVE CULVERT, STORM PIPE, STORM STRUCTURES WITHIN RIGHT-OF-WAY AND LEGALLY DISPOSE OF MATERIALS OFF-SITE.
- (R2)** CONTRACTOR REMOVE/RELOCATE EXISTING UTILITY STRUCTURE. COORDINATE WITH PURVEYOR FOR NEW LOCATION.
- (R3)** CONNECT EXISTING WATER SERVICE TO NEW WATER METER ONCE NEW WATER MAIN IS INSTALLED, TESTED, AND APPROVED. COORDINATE WORK WITH CITY OF SANDPOINT AND PROPERTY OWNER.
- (R4)** REMOVE AND DISPOSE OF EXISTING SIGN. SEE SIGNAGE AND STRIPING PLANS FOR MORE INFORMATION
- (R5)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, REMOVE OR ABANDON IN PLACE EXISTING 6" WATER MAIN. IF ABANDONING IN PLACE, FILL PIPE WITH FLOWABLE FILL TO PREVENT POSSIBLE FUTURE COLLAPSE AND SETTLEMENT. COORDINATE ALL WORK WITH THE CITY OF SANDPOINT. SEE WATER MAIN PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
- (R6)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, CLOSE EXISTING 6" WATER VALVE, REMOVE VALVE BOX, CUT EXISTING MAIN EAST OF VALVE AND CAP THE PIPE. COORDINATE WORK WITH CITY OF SANDPOINT.
- (R7)** CONTRACTOR IS RESPONSIBLE FOR PRESERVATION, REMOVAL, AND REPLACEMENT OF ALL EXISTING SURVEY MONUMENTS WITHIN THE WORK AREA IN ACCORDANCE WITH IDAHO CODE 55-1613. CONTRACTOR SHALL NOTIFY THE ENGINEER UPON RE-ESTABLISHMENT OF MONUMENTS.
- (R8)** REMOVE EXISTING LANDSCAPING WITHIN PUBLIC RIGHT OF WAY. SEE ROADWAY PLANS FOR MORE INFORMATION.

- (R9)** REMOVE EXISTING TREES TO INCLUDE STUMPS AND LEGALLY DISPOSE OF OFFSITE.
- (R12)** AVISTA GAS MAIN TO BE REPLACED WITH NEW 4" MAIN. COORDINATE WORK AND SCHEDULE WITH AVISTA.
- (R13)** UPON INSTALLATION, TESTING AND ACCEPTANCE OF NEW WATER MAIN, REMOVE AND DISPOSE OF EXISTING WATER METER. SALVAGE AND DELIVER METER REGISTER AND ENDPOINT TO CITY OF SANDPOINT PUBLIC WORKS. CONNECT EXISTING WATER SERVICE TO NEW HDPE SERVICE PIPE.
- (R14)** CUT AND CAP EXISTING SANITARY SEWER SERVICE PIPE AT THE SANITARY SEWER MAIN.
- (R18)** REMOVE EXISTING FENCE POSTS WITHIN RIGHT OF WAY.
- (SC)** SAWCUT / LIMITS OF DEMOLITION MATERIALS REMOVAL. REMOVE CONCRETE TO NEAREST JOINT BEYOND SAWCUT LIMITS SHOWN WHERE APPLICABLE.

DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO. DATE BY DESCRIPTION

C1.05

DRAWING: SHEET: --- OF XX 43

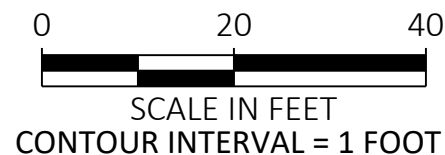
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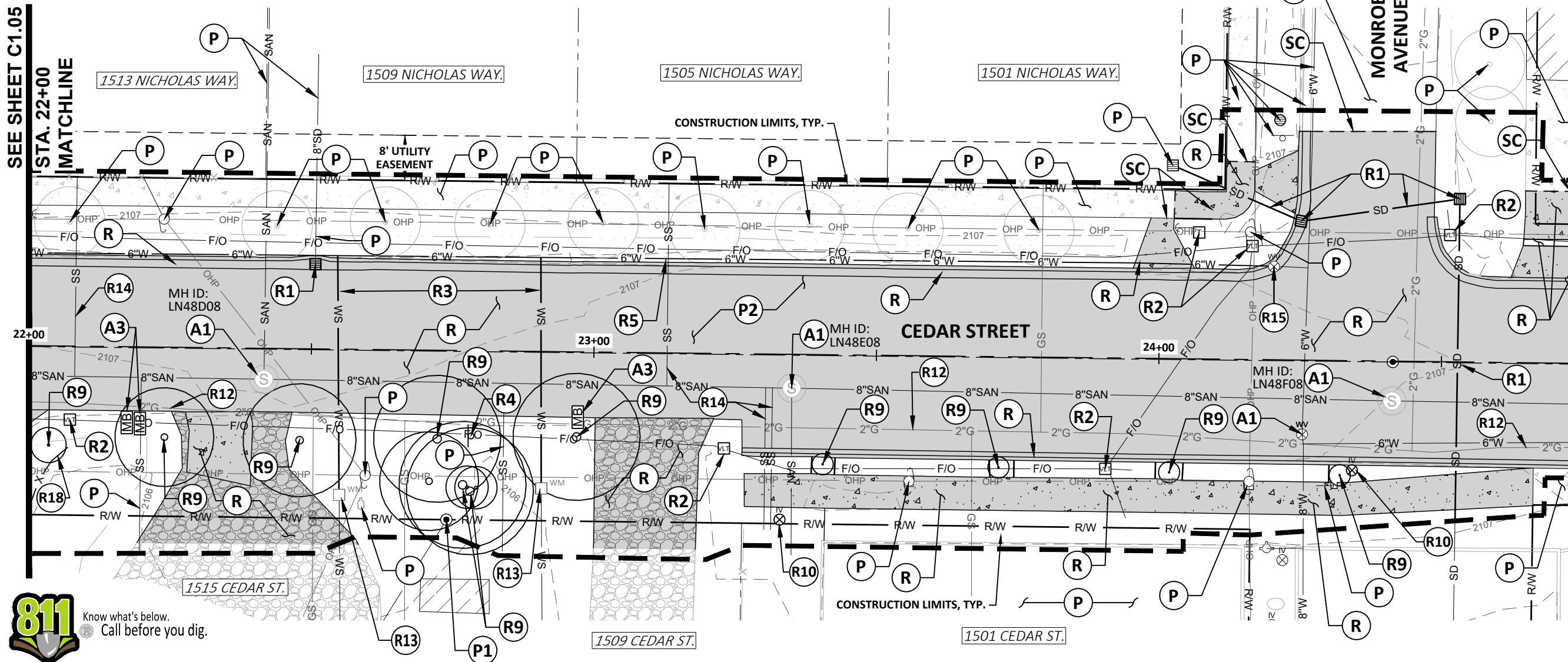
DEMOLITION NOTES:

- (P)** CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE.
- (P1)** CONTRACTOR SHALL PROTECT PROPERTY CORNERS AND ROAD MONUMENTS DURING CONSTRUCTION. IF PROPERTY CORNER OR ROAD MONUMENT INDICATED ON PLAN IS DAMAGED OR REMOVED DURING CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO HAVE IT REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- (P2)** CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN AND EXTENDING ACROSS THE CEDAR STREET CORRIDOR UNLESS NOTED OTHERWISE. IF A CONFLICT EXISTS DURING CONSTRUCTION, NOTIFY PROJECT ENGINEER.
- (A1)** CONTRACTOR SHALL ADJUST EXISTING UTILITY STRUCTURE TO NEW FINISH GRADE ELEVATION. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (A3)** CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING MAILBOX. COORDINATE RELOCATION WITH THE PROPERTY OWNER AND THE CITY OF SANDPOINT.
- (A4)** ADJUST SANITARY SEWER SERVICE LINE IF NECESSARY TO CLEAR NEW STORM MAIN. SEWER SERVICE LOCATION PER CITY SEWER CAMERA FOOTAGE.
- (R)** CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE AND BASE MATERIAL TO NEW SUBGRADE ELEVATION FOR INSTALLATION OF NEW ROADWAY SECTION AND/OR DRIVEWAY. CONTRACTOR SHALL LEGALLY DISPOSE OF ASPHALT AND CONCRETE MATERIALS OFF-SITE. SEE ROADWAY PLANS FOR ELEVATIONS.
- (R1)** CONTRACTOR SHALL REMOVE CULVERT, STORM PIPE, STORM STRUCTURES WITHIN RIGHT-OF-WAY AND LEGALLY DISPOSE OF MATERIALS OFF-SITE.
- (R2)** CONTRACTOR REMOVE/RELOCATE EXISTING UTILITY STRUCTURE. COORDINATE WITH PURVEYOR FOR NEW LOCATION.
- (R3)** CONNECT EXISTING WATER SERVICE TO NEW WATER METER ONCE NEW WATER MAIN IS INSTALLED, TESTED, AND APPROVED. COORDINATE WORK WITH CITY OF SANDPOINT AND PROPERTY OWNER.
- (R4)** REMOVE AND DISPOSE OF EXISTING SIGN. SEE SIGNAGE AND STRIPING PLANS FOR MORE INFORMATION
- (R5)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, REMOVE OR ABANDON IN PLACE EXISTING 6" WATER MAIN. IF ABANDONING IN PLACE, FILL PIPE WITH FLOWABLE FILL TO PREVENT POSSIBLE FUTURE COLLAPSE AND SETTLEMENT. COORDINATE ALL WORK WITH THE CITY OF SANDPOINT. SEE WATER MAIN PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
- (R8)** REMOVE EXISTING LANDSCAPING WITHIN PUBLIC RIGHT OF WAY. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (R9)** REMOVE EXISTING TREES TO INCLUDE STUMPS AND LEGALLY DISPOSE OF OFFSITE.
- (R10)** REMOVE EXISTING IRRIGATION STRUCTURE WITHIN DISTURBANCE AREA.
- (R11)** REMOVE EXISTING HYDRANT ASSEMBLY. SEE WATER PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
- (R12)** AVISTA GAS MAIN TO BE REPLACED WITH NEW 4" MAIN. COORDINATE WORK AND SCHEDULE WITH AVISTA.
- (R13)** UPON INSTALLATION, TESTING AND ACCEPTANCE OF NEW WATER MAIN, REMOVE AND DISPOSE OF EXISTING WATER METER. SALVAGE AND DELIVER METER REGISTER AND ENDPOINT TO CITY OF SANDPOINT PUBLIC WORKS. CONNECT EXISTING WATER SERVICE TO NEW HDPE SERVICE PIPE.
- (R14)** CUT AND CAP EXISTING SANITARY SEWER SERVICE PIPE AT THE SANITARY SEWER MAIN.
- (R15)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, CLOSE EXISTING 6" WATER VALVE, REMOVE VALVE BOX, CUT EXISTING MAIN WEST OF VALVE AND CAP THE PIPE. COORDINATE WORK WITH CITY OF SANDPOINT.
- (R18)** REMOVE EXISTING FENCE POSTS WITHIN RIGHT OF WAY.
- (SC)** SAWCUT / LIMITS OF DEMOLITION MATERIALS REMOVAL. REMOVE CONCRETE TO NEAREST JOINT BEYOND SAWCUT LIMITS SHOWN WHERE APPLICABLE.

DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



STA. 24+75
MATCHLINE
SEE SHEET C1.07



NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION

75% REVIEW
DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO. DATE BY DESCRIPTION

C1.06

DRAWING: 44
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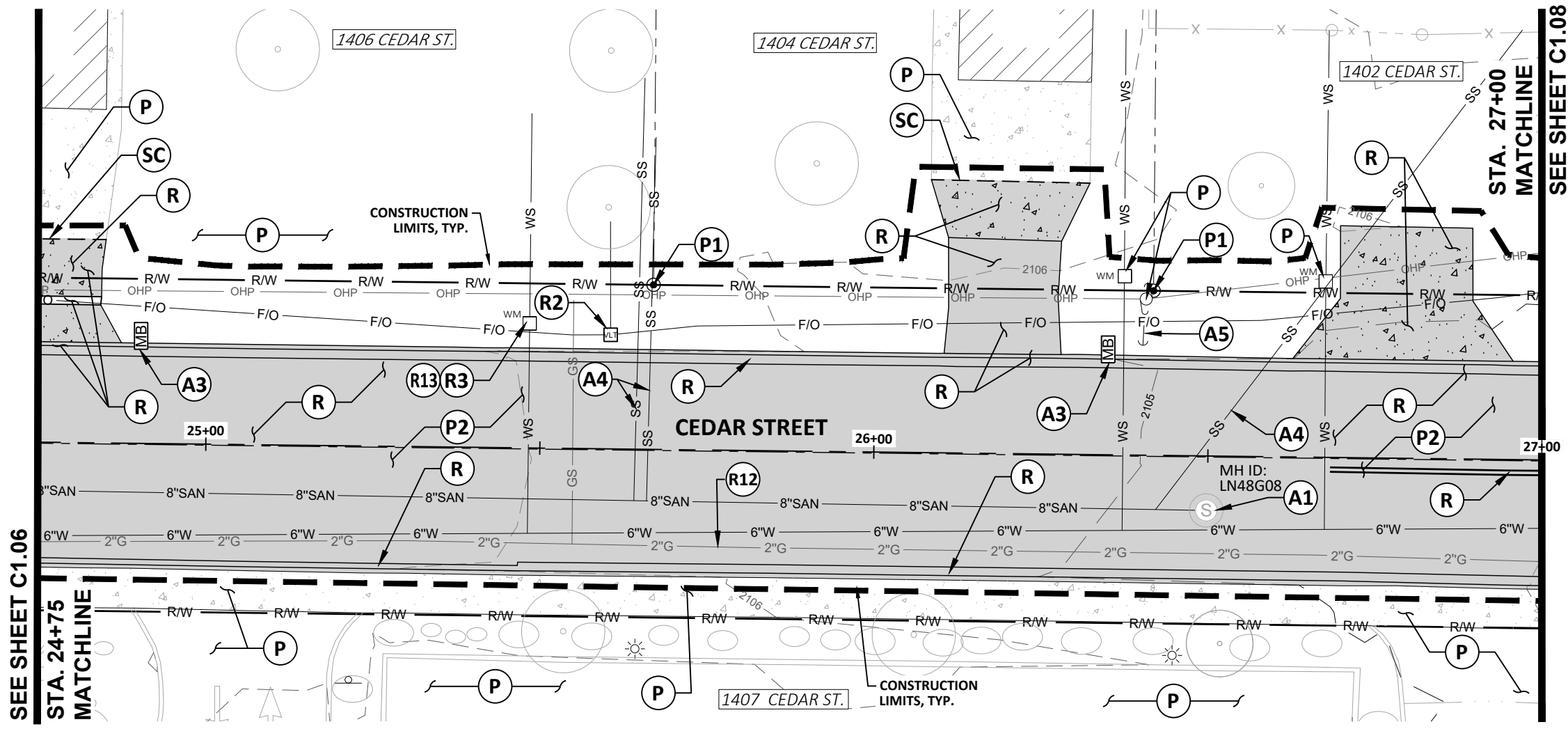
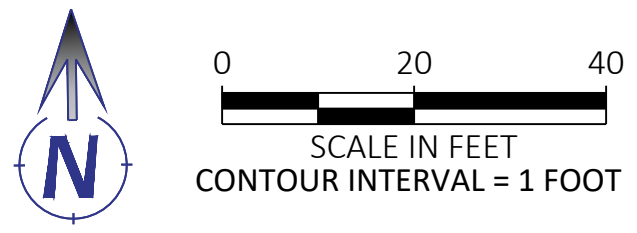
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DEMOLITION NOTES:

- (P)** CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE.
- (P1)** CONTRACTOR SHALL PROTECT PROPERTY CORNERS AND ROAD MONUMENTS DURING CONSTRUCTION. IF PROPERTY CORNER OR ROAD MONUMENT INDICATED ON PLAN IS DAMAGED OR REMOVED DURING CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO HAVE IT REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- (P2)** CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN AND EXTENDING ACROSS THE CEDAR STREET CORRIDOR UNLESS NOTED OTHERWISE. IF A CONFLICT EXISTS DURING CONSTRUCTION, NOTIFY PROJECT ENGINEER.
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- (A3)** CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING MAILBOX. COORDINATE RELOCATION WITH THE PROPERTY OWNER AND THE CITY OF SANDPOINT.
- (A4)** ADJUST SANITARY SEWER SERVICE LINE IF NECESSARY TO CLEAR NEW STORM MAIN. SEWER SERVICE LOCATION PER CITY SEWER CAMERA FOOTAGE.
- (A5)** CONTRACTOR SHALL WORK WITH AVISTA TO REMOVE / RELOCATE EXISTING UTILITY POLE GUY WIRE.
- (R)** CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE AND BASE MATERIAL TO NEW SUBGRADE ELEVATION FOR INSTALLATION OF NEW ROADWAY SECTION AND/OR DRIVEWAY. CONTRACTOR SHALL LEGALLY DISPOSE OF ASPHALT AND CONCRETE MATERIALS OFF-SITE. SEE ROADWAY PLANS FOR ELEVATIONS.
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- (R3)** CONNECT EXISTING WATER SERVICE TO NEW WATER METER ONCE NEW WATER MAIN IS INSTALLED, TESTED, AND APPROVED. COORDINATE WORK WITH CITY OF SANDPOINT AND PROPERTY OWNER.
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- (R6)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, CLOSE EXISTING 6" WATER VALVE, REMOVE VALVE BOX, CUT EXISTING MAIN EAST OF VALVE AND CAP THE PIPE. COORDINATE WORK WITH CITY OF SANDPOINT.
- (R8)** REMOVE EXISTING LANDSCAPING WITHIN PUBLIC RIGHT OF WAY. SEE ROADWAY PLANS FOR MORE INFORMATION.
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- (R10)** REMOVE EXISTING IRRIGATION STRUCTURE WITHIN DISTURBANCE AREA.
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DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



476864 Highway 95, Suite 3
Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
DEMOLITION PLAN
STA. 24+75 TO STA. 27+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1" SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024
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REVISIONS
NO. DATE BY DESCRIPTION

(P)

C1.07

DRAWING: 45
SHEET: --- OF XX

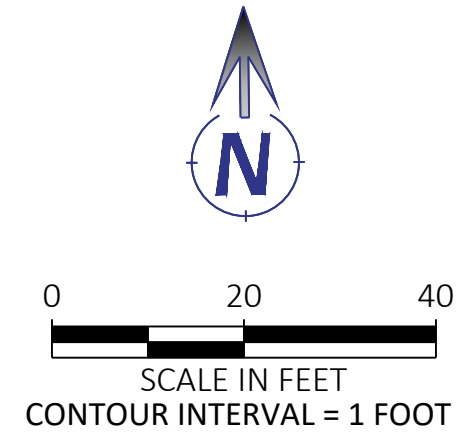
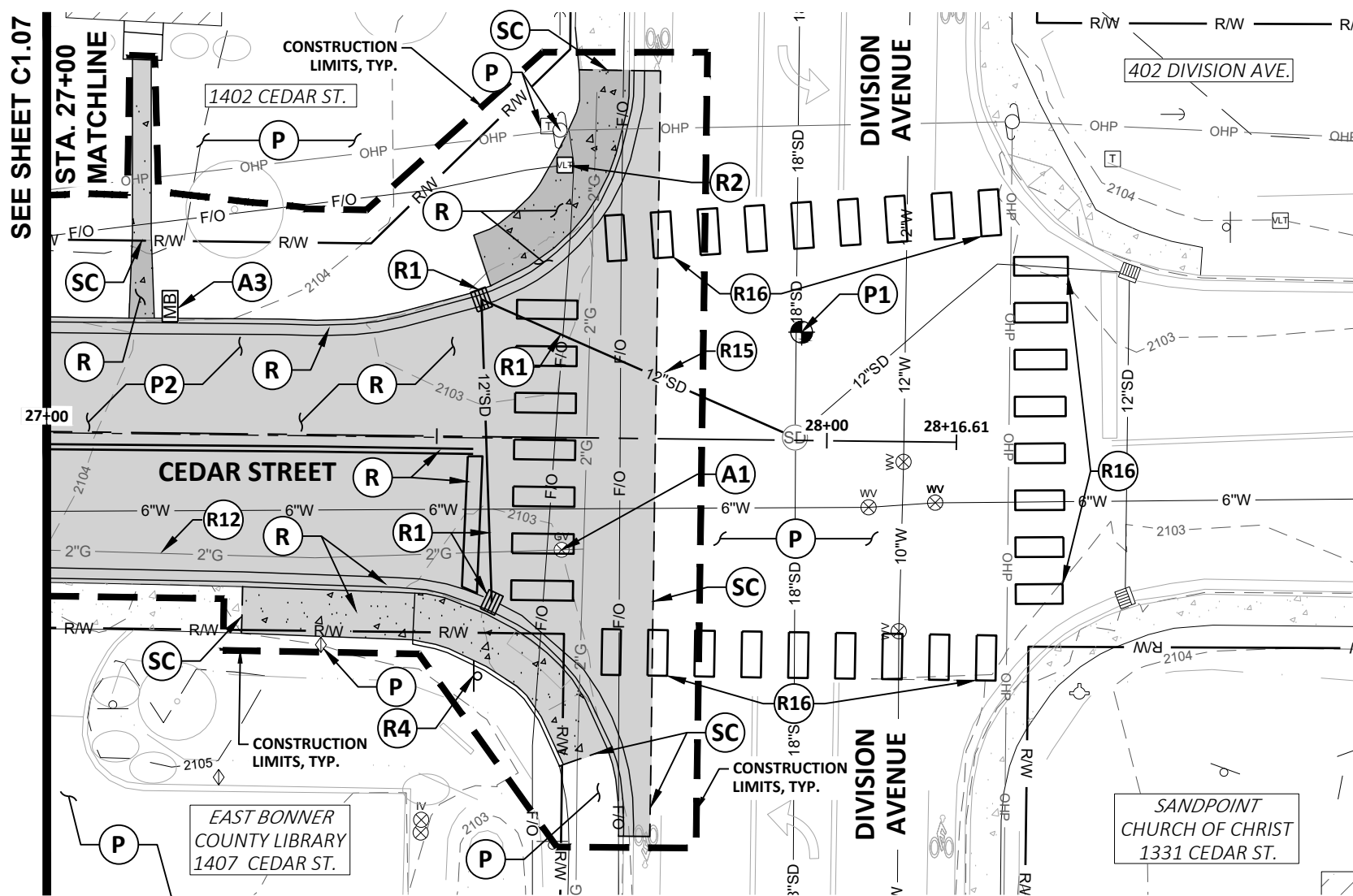
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DEMOLITION NOTES:

- (P)** CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE.
- (P1)** CONTRACTOR SHALL PROTECT PROPERTY CORNERS AND ROAD MONUMENTS DURING CONSTRUCTION. IF PROPERTY CORNER OR ROAD MONUMENT INDICATED ON PLAN IS DAMAGED OR REMOVED DURING CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO HAVE IT REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- (P2)** CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN AND EXTENDING ACROSS THE CEDAR STREET CORRIDOR UNLESS NOTED OTHERWISE. IF A CONFLICT EXISTS DURING CONSTRUCTION, NOTIFY PROJECT ENGINEER.
- (A1)** CONTRACTOR SHALL ADJUST EXISTING UTILITY STRUCTURE TO NEW FINISH GRADE ELEVATION. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (A3)** CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING MAILBOX. COORDINATE RELOCATION WITH THE PROPERTY OWNER AND THE CITY OF SANDPOINT.
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- (R6)** UPON INSTALLATION, TESTING, AND ACCEPTANCE ON NEW 8" WATER MAIN TO INCLUDE SERVICE CONNECTIONS, CLOSE EXISTING 6" WATER VALVE, REMOVE VALVE BOX, CUT EXISTING MAIN EAST OF VALVE AND CAP THE PIPE. COORDINATE WORK WITH CITY OF SANDPOINT.
- (R8)** REMOVE EXISTING LANDSCAPING WITHIN PUBLIC RIGHT OF WAY. SEE ROADWAY PLANS FOR MORE INFORMATION.
- (R9)** REMOVE EXISTING TREES TO INCLUDE STUMPS AND LEGALLY DISPOSE OF OFFSITE.
- (R10)** REMOVE EXISTING IRRIGATION STRUCTURE WITHIN DISTURBANCE AREA.
- (R11)** REMOVE EXISTING HYDRANT ASSEMBLY. SEE WATER PLAN AND PROFILE SHEETS FOR MORE INFORMATION.
- (R12)** AVISTA GAS MAIN TO BE REPLACED WITH NEW 4" MAIN. COORDINATE WORK AND SCHEDULE WITH AVISTA.
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- (R14)** CUT AND CAP EXISTING SANITARY SEWER SERVICE PIPE AT THE SANITARY SEWER MAIN.
- (R15)** CUT EXISTING STORM PIPE NEAR EDGE OF PROJECT LIMITS. BULKHEAD PIPE END WITHIN DIVISION AVE. MANHOLE AND FILL IPE STUB WITH FLOWABLE FILL.
- (R16)** REMOVE EXISTING CROSSWALK STRIPING.
- (SC)** SAWCUT / LIMITS OF DEMOLITION MATERIALS REMOVAL. REMOVE CONCRETE TO NEAREST JOINT BEYOND SAWCUT LIMITS SHOWN WHERE APPLICABLE.

DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



476864 Highway 95, Suite 3
Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
DEMOLITION PLAN
STA. 27+00 TO END

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1" SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO.	DATE	BY	DESCRIPTION

C1.08

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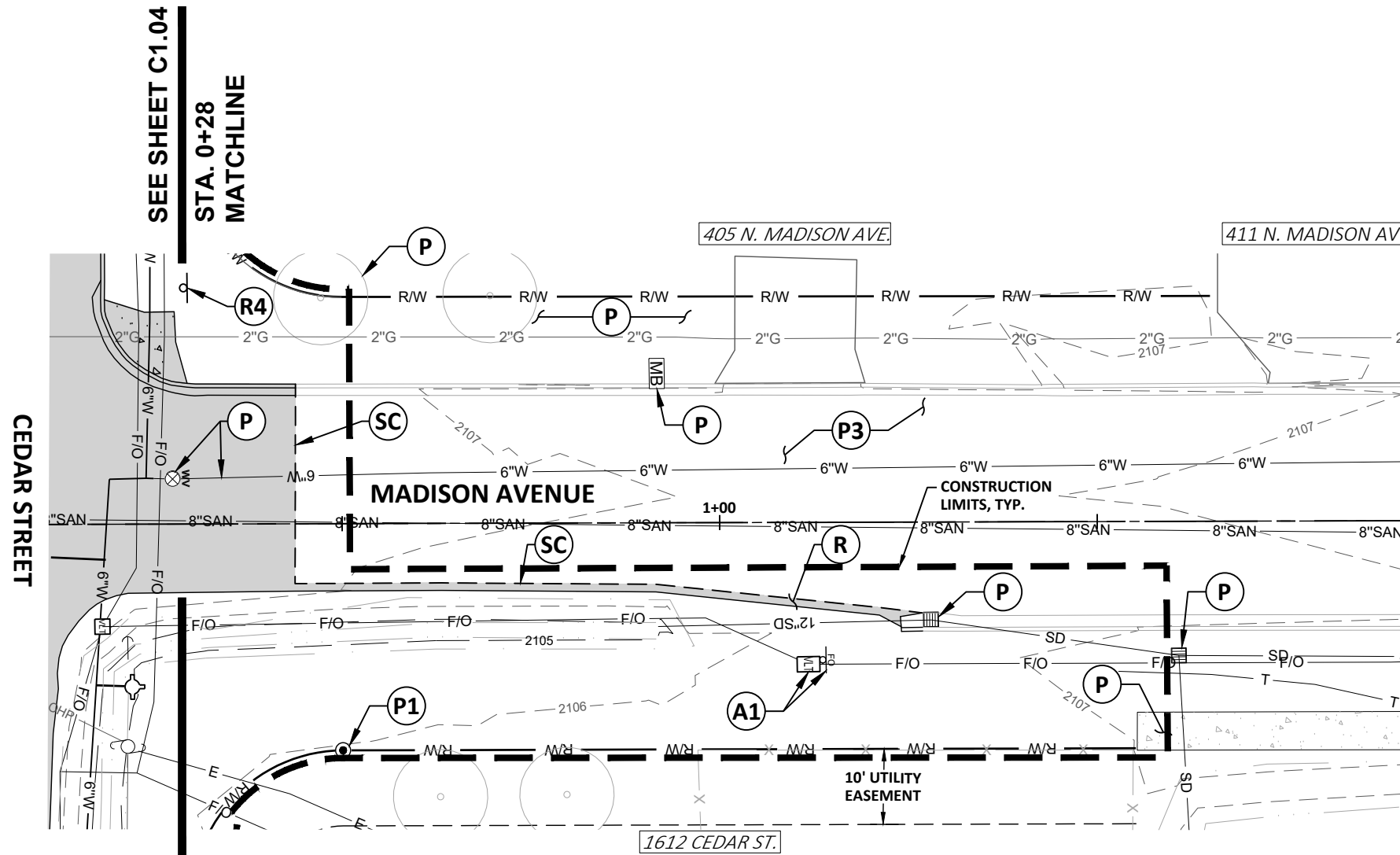
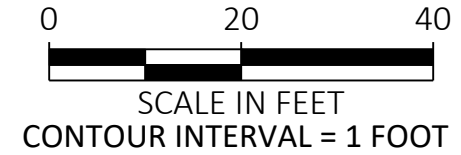
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DEMOLITION NOTES:

- (P)** CONTRACTOR SHALL PROTECT AND MAINTAIN IN PLACE.
- (P1)** CONTRACTOR SHALL PROTECT PROPERTY CORNERS AND ROAD MONUMENTS DURING CONSTRUCTION. IF PROPERTY CORNER OR ROAD MONUMENT INDICATED ON PLAN IS DAMAGED OR REMOVED DURING CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO HAVE IT REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- (P3)** CONTRACTOR SHALL PROTECT EXISTING ASPHALT PAVEMENT, CURB AND GUTTER, DRIVEWAYS, AND ALL UTILITIES WITHIN AND EXTENDING ACROSS THE MADISON AVENUE CORRIDOR UNLESS NOTED OTHERWISE. IF A CONFLICT EXISTS DURING CONSTRUCTION, NOTIFY PROJECT ENGINEER.
- (A1)** CONTRACTOR SHALL ADJUST EXISTING UTILITY STRUCTURE TO NEW FINISH GRADE ELEVATION. SEE ROADWAY PLANS FOR MORE INFORMATION.
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■ DEMOLITION AREA (ASPHALT, CONCRETE, STRUCTURE, GRAVEL)



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

MADISON AVENUE
DEMOLITION PLAN
STA. 0+28 TO END

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

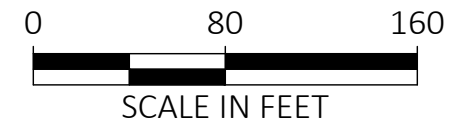
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C1.09

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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

ROADWAY OVERALL PLAN

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

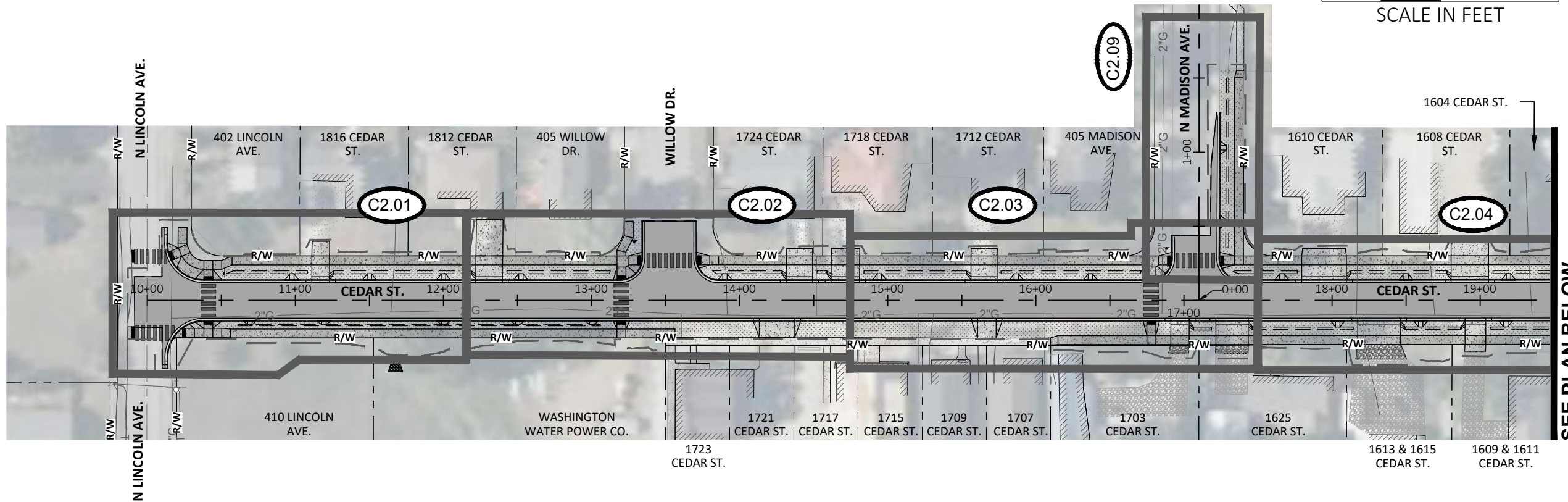
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PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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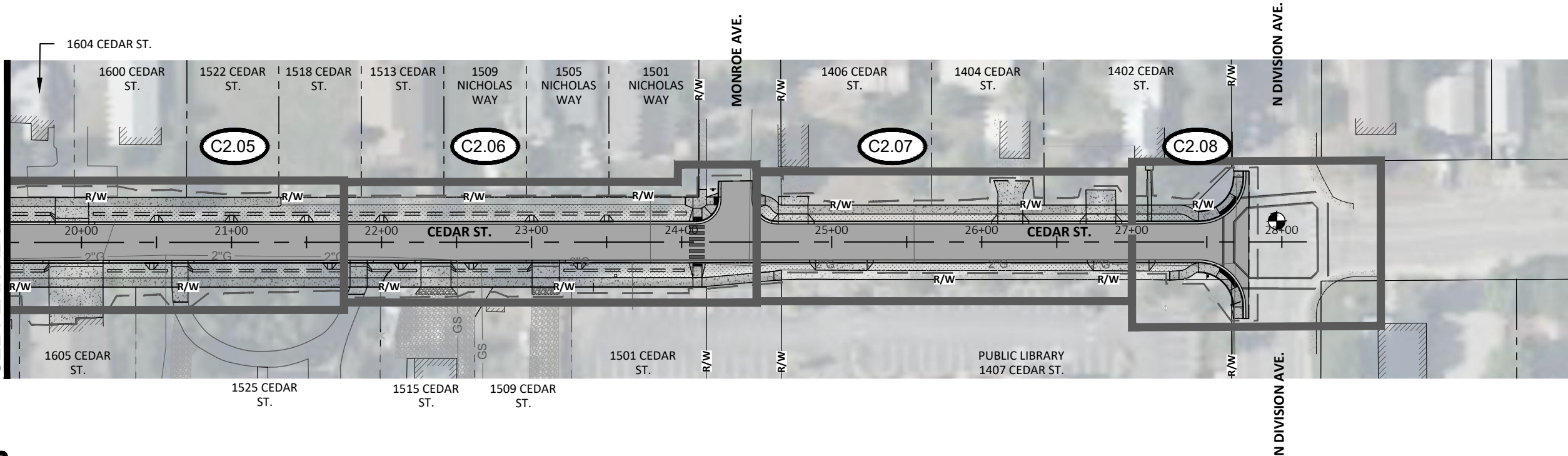
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SHEET: ---OF XX



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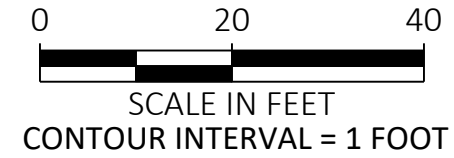
SEE PLAN ABOVE

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CONSTRUCTION NOTES:

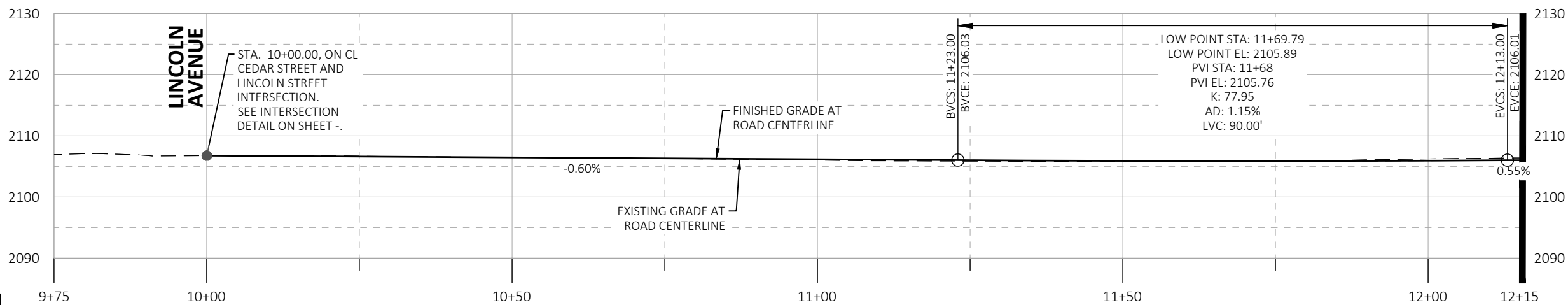
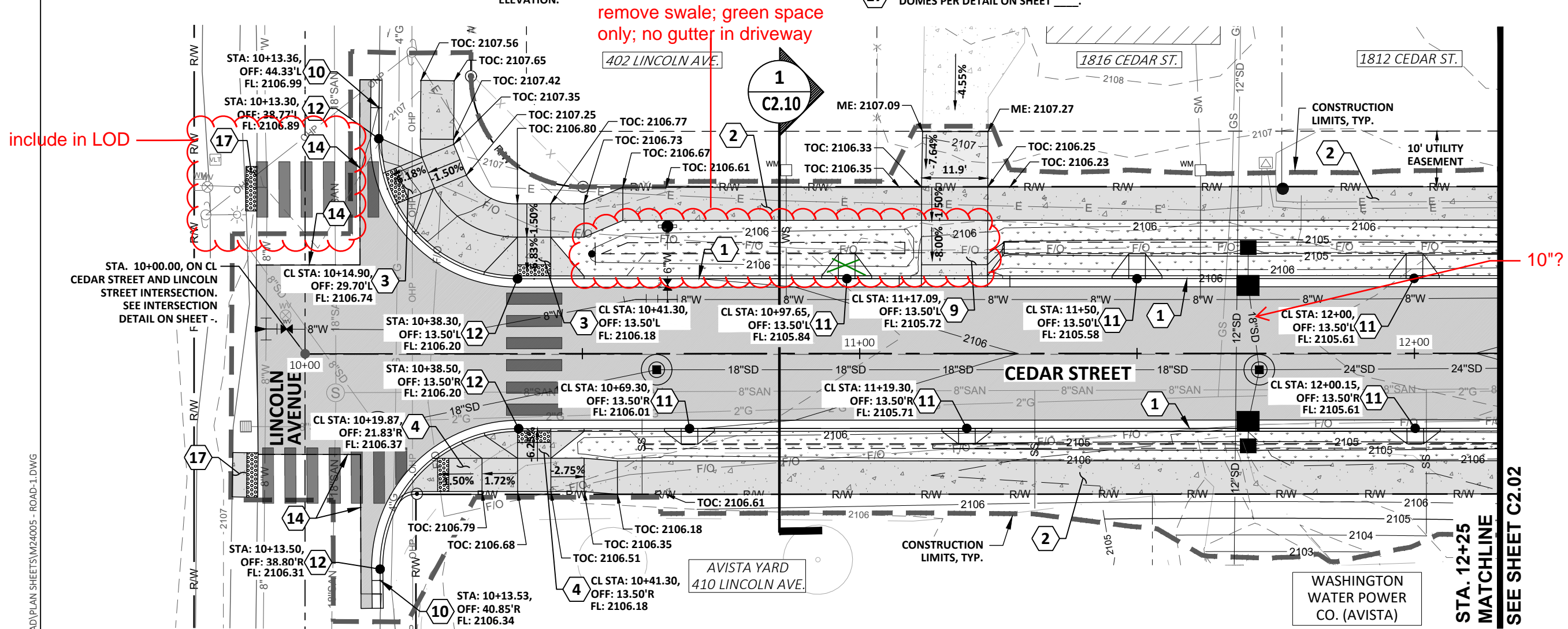
- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 3 INSTALL TYPE 1 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 4 INSTALL TYPE 2 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 10 INSTALL CURB TERMINUS PER ISPWC SD-707. SEE PLAN FOR TERMINUS STARTING STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 17 INSTALL TYPE 6 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____.



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
ROADWAY P&P
STA. 9+75 TO STA. 12+15



CEDAR ST PROFILE - STA. 9+75 TO STA. 12+15
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
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C2.01

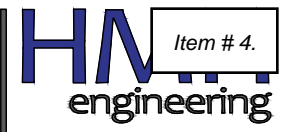
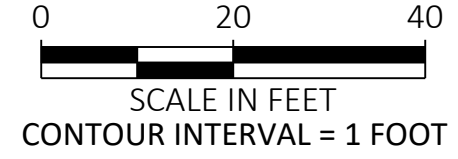
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CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 5 INSTALL TYPE 3 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 7 INSTALL TYPE 5 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 8 INSTALL TYPE A (STANDARD WINGS) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 13 END NEW CURB. MATCH EXISTING. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
ROADWAY P&P
STA. 12+15 TO STA. 14+75

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FOR CONSTRUCTION

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1" SCALE: (11X17 ONLY)

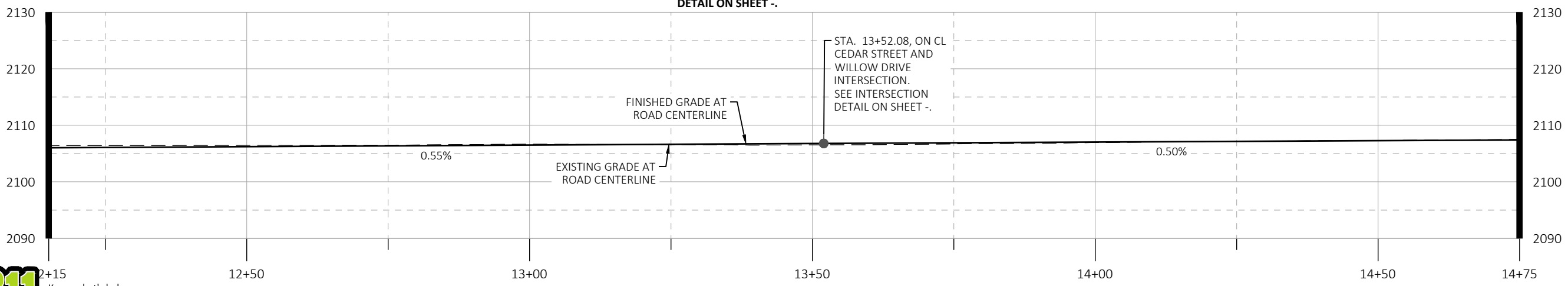
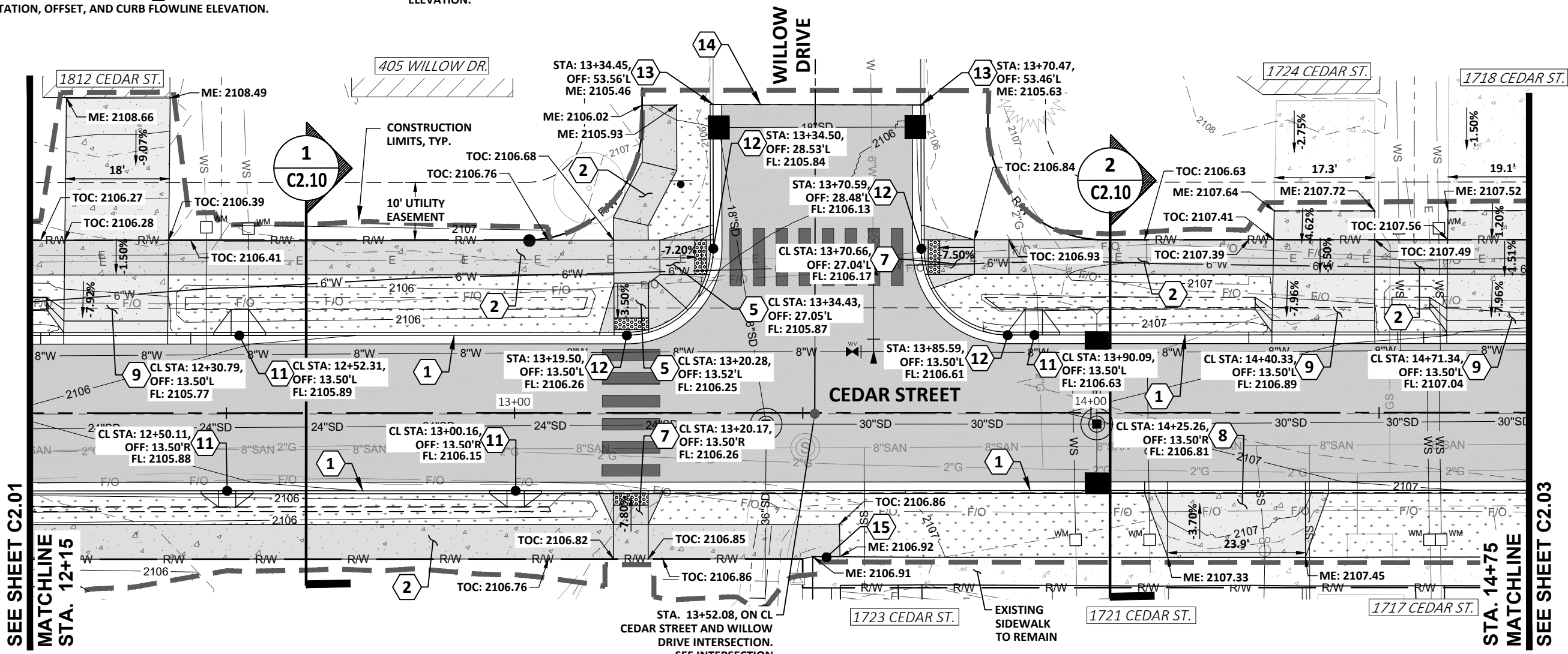
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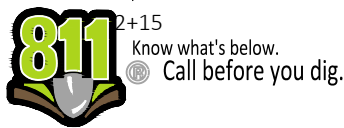
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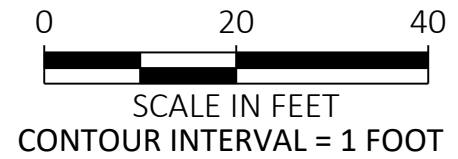
CEDAR ST PROFILE - STA. 12+15 TO STA. 14+75
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:31 AM Plotted By: Destiny Hilliard
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CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISWPC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 5 INSTALL TYPE 3 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 7 INSTALL TYPE 5 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 8 INSTALL TYPE A (STANDARD WINGS) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.



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CEDAR STREET RECONSTRUCTION
 CITY OF SANDPOINT, ID
 CEDAR STREET
 ROADWAY P&P
 STA. 14+75 TO STA. 17+50

NOT APPROVED
PRELIMINARY
 FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
 DRAWN BY: DJJ
 CHECKED BY: DMT
 DATE: DECEMBER 2024

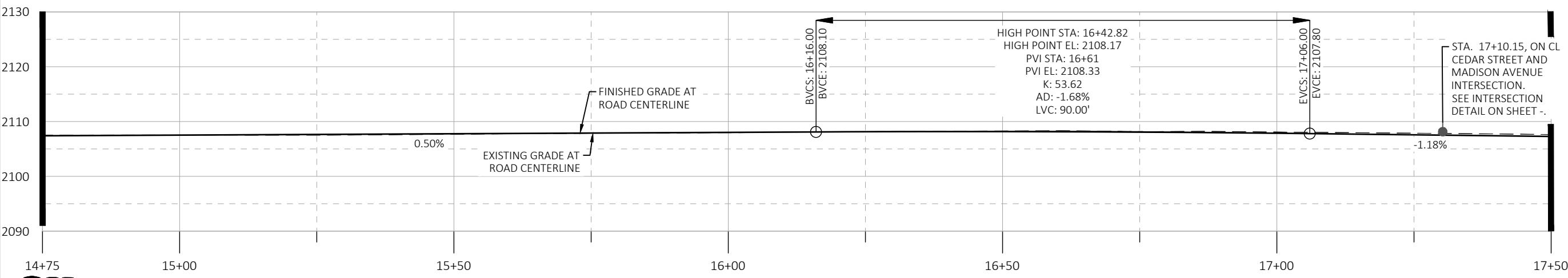
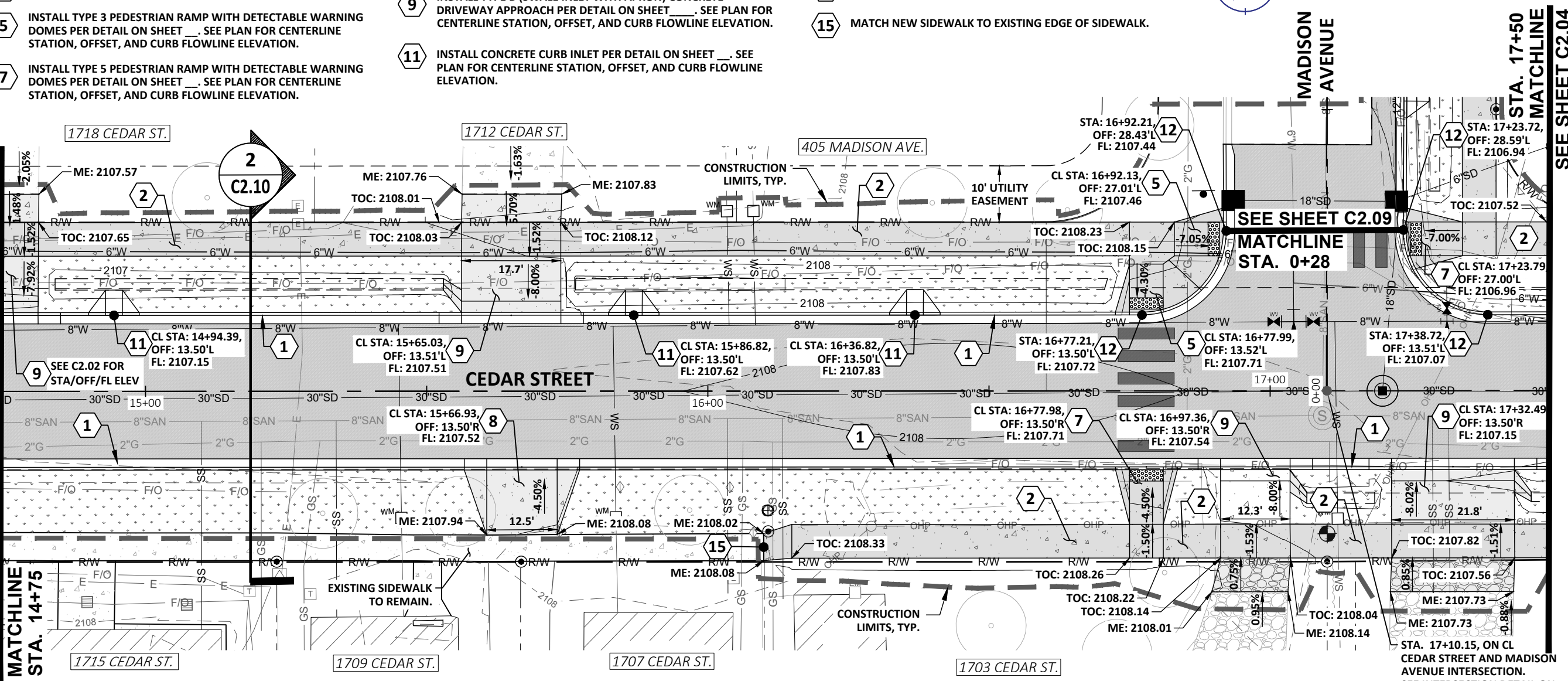
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NO.	DATE	BY	DESCRIPTION

C2.03

DRAWING: SHEET: --- OF XX

SEE SHEET C2.02



CEDAR ST PROFILE - STA. 14+75 TO STA. 17+50

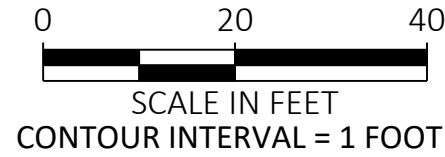
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 VERTICAL SCALE: 1" = 20'

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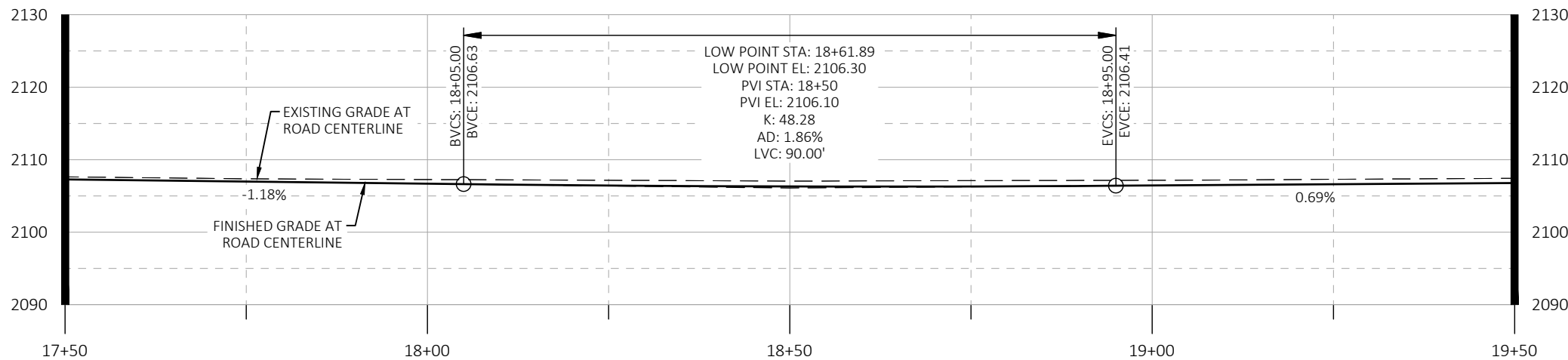
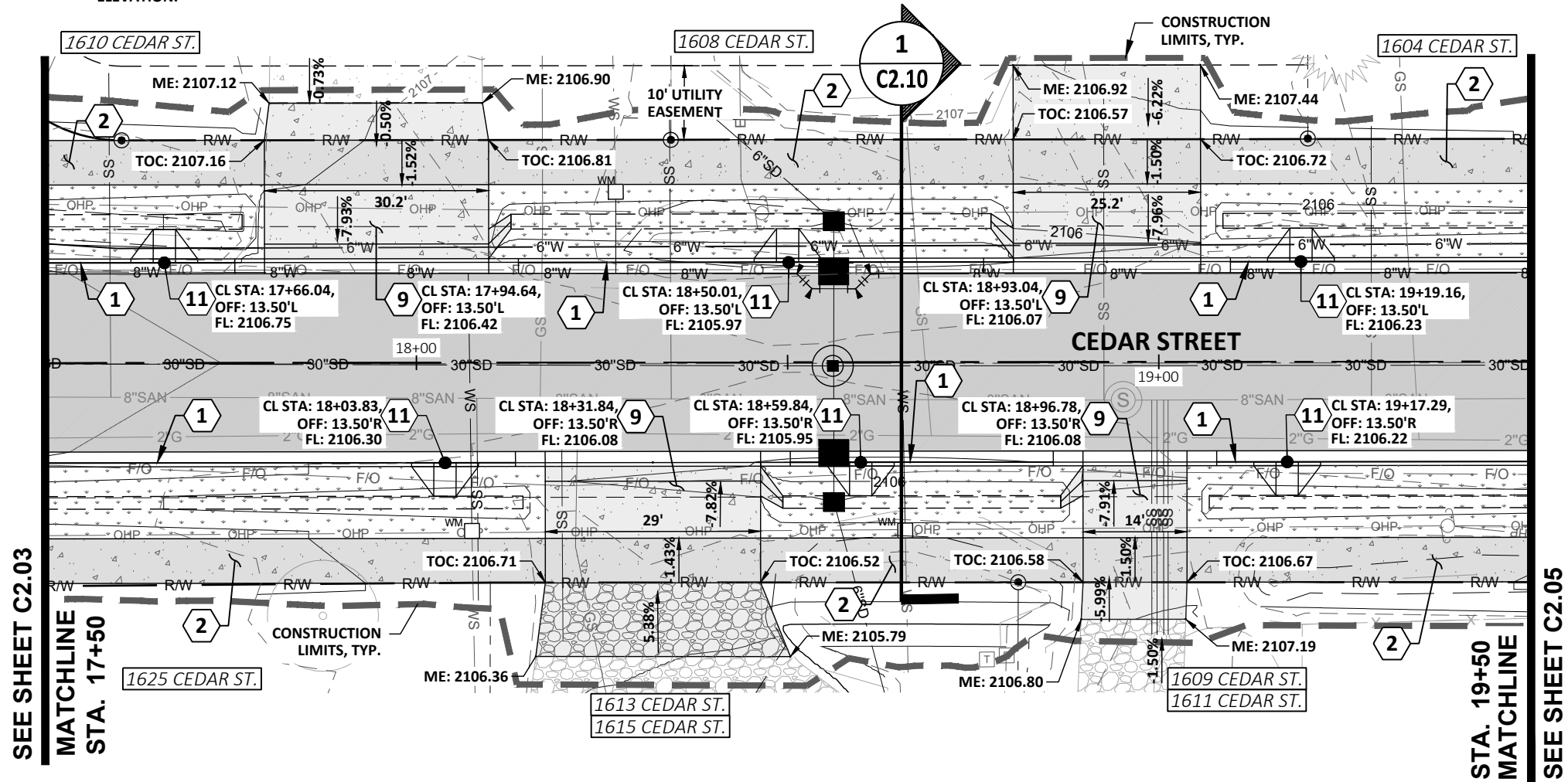
CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
ROADWAY P&P
STA. 17+50 TO STA. 19+50



CEDAR ST PROFILE - STA. 17+50 TO STA. 19+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

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1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
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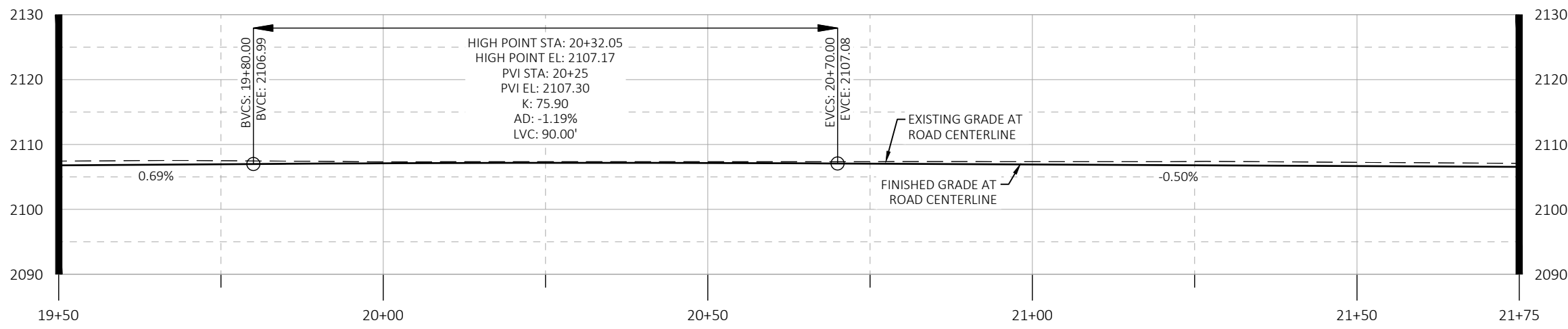
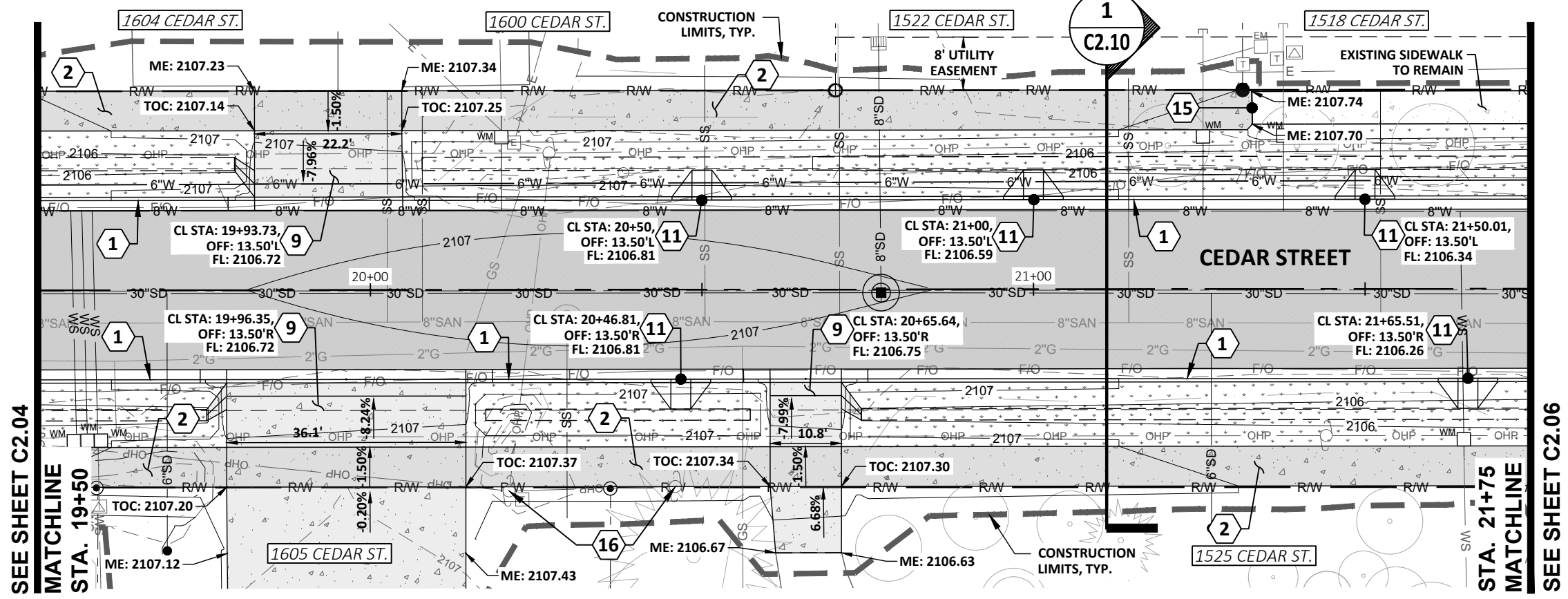
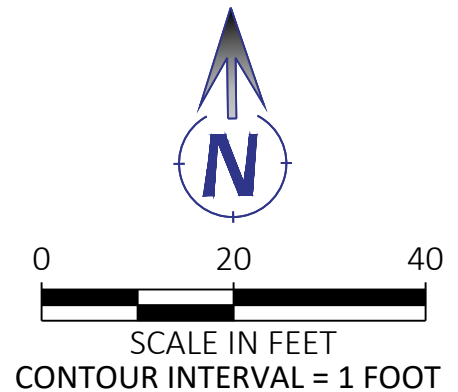
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C2.04

DRAWING: 52
SHEET: ---- OF XX

CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.
- 16 POWERPOLE WITHIN SIDEWALK LIMITS.



CEDAR ST PROFILE - STA. 19+50 TO STA. 21+75
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
ROADWAY P&P
STA. 19+50 TO STA. 21+75

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FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

DWG:
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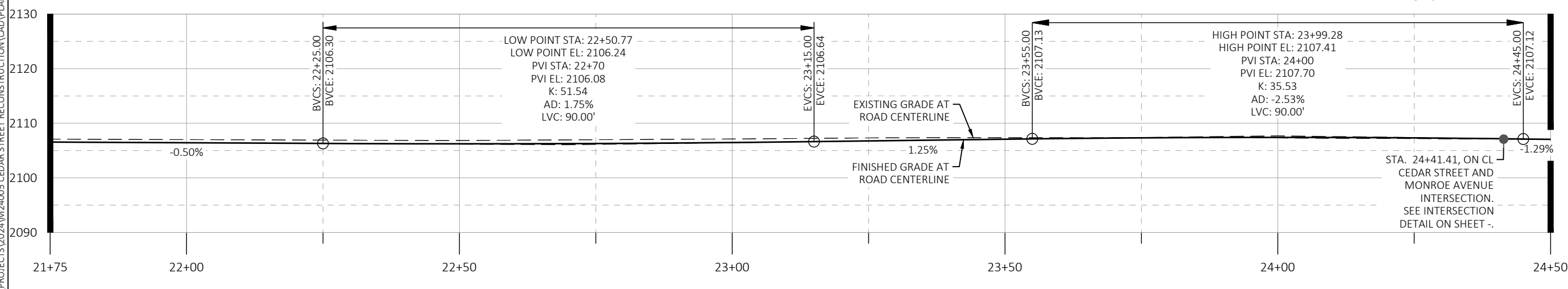
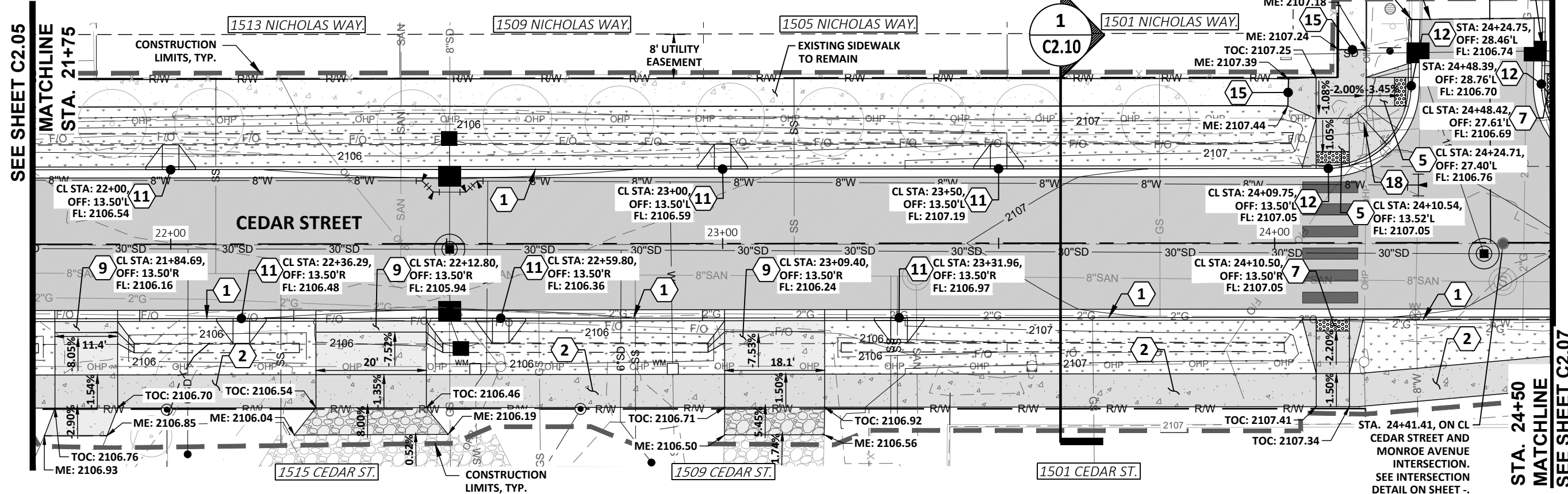
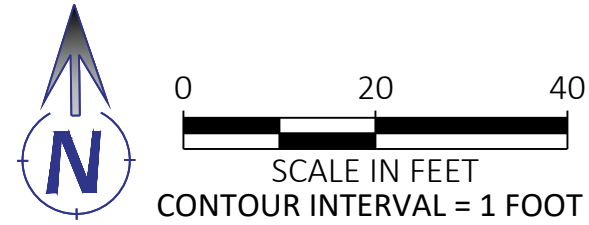
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CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 5 INSTALL TYPE 3 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 7 INSTALL TYPE 5 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 9 INSTALL TYPE B (SWALE INLET WITH APRON) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 10 INSTALL CURB TERMINUS PER ISPWC SD-707. SEE PLAN FOR TERMINUS STARTING STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 13 END NEW CURB. MATCH EXISTING. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATION.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.
- 18 POWERPOLE WITHIN RAMP LIMITS.



CEDAR ST PROFILE - STA. 21+75 TO STA. 24+50

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
ROADWAY P&P
STA. 21+75 TO STA. 24+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1" SCALE: (11X17 ONLY)

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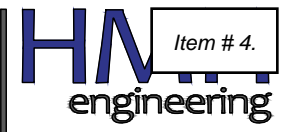
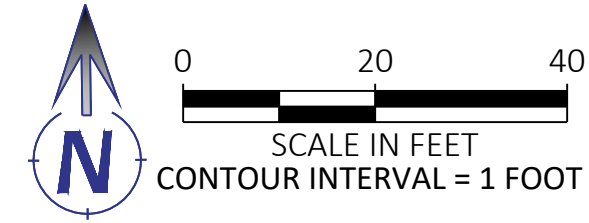
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CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 7 INSTALL TYPE 5 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 8 INSTALL TYPE A (STANDARD WINGS) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET ____ SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.
- 16 POWERPOLE WITHIN SIDEWALK LIMITS.



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
ROADWAY P&P
STA. 24+50 TO STA. 27+00

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PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

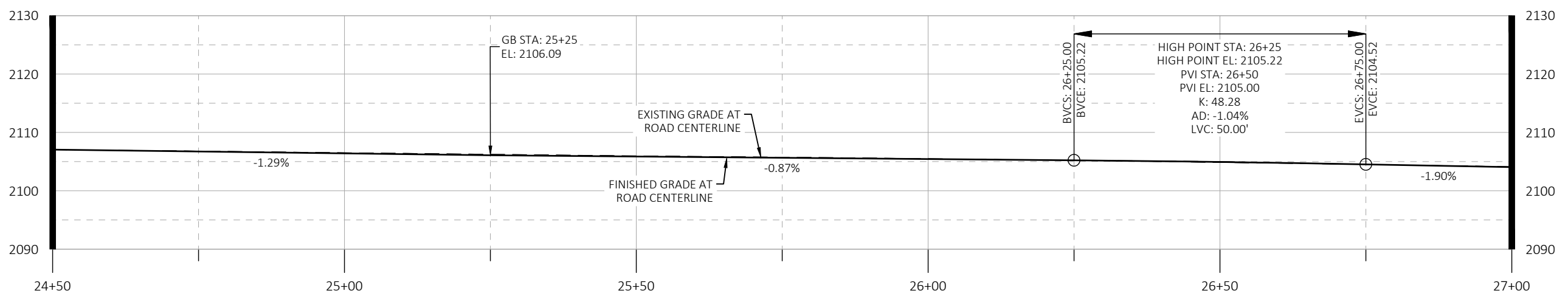
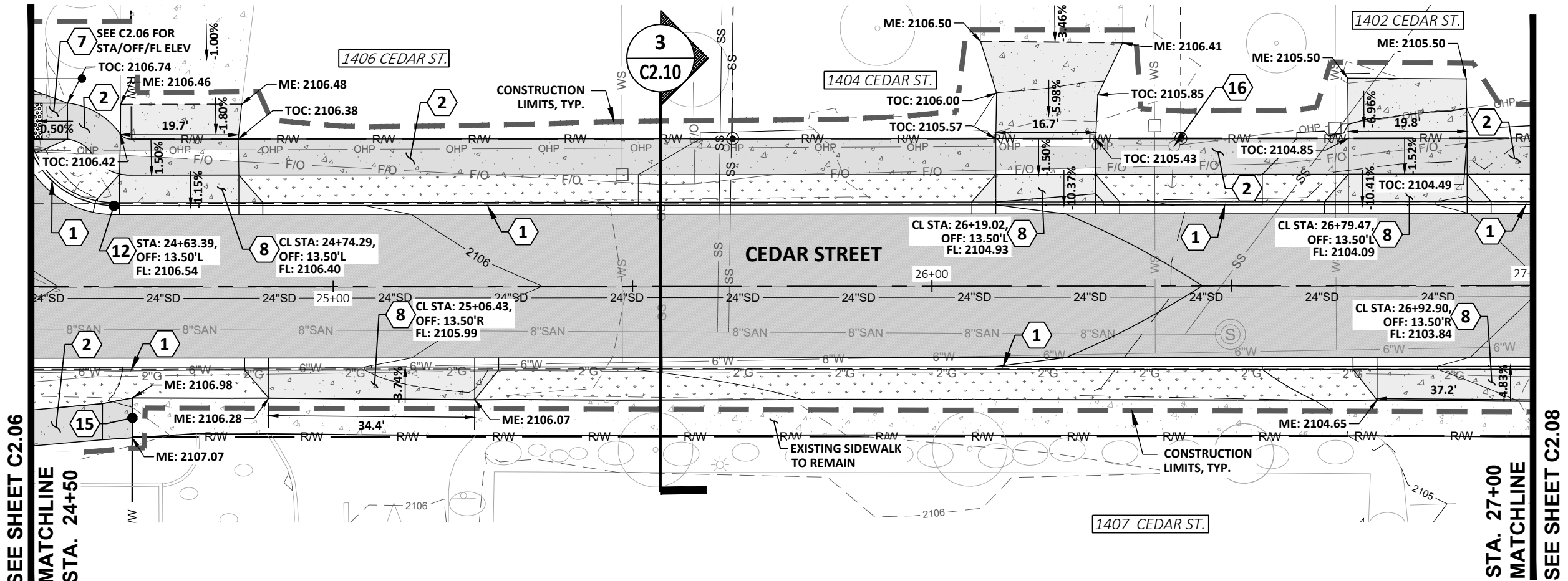
1" SCALE: (11X17 ONLY)

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DRAWING: 55
SHEET: ---- OF XX



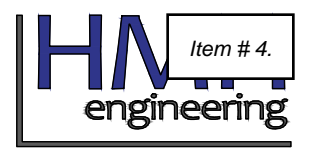
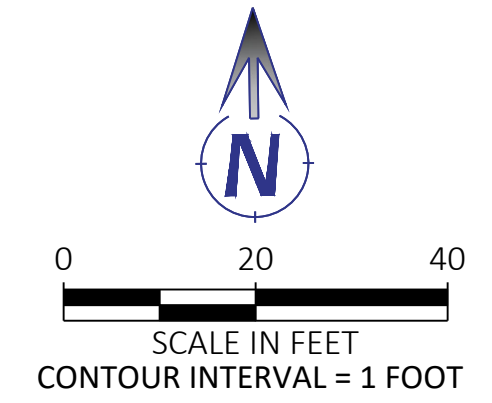
CEDAR ST PROFILE - STA. 24+50 TO STA. 27+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:32 AM, Plotted By: Destiny Hilliard
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CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISWPC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 6 INSTALL TYPE 4 PEDESTRIAN RAMP WITH DETECTABLE WARNING DOMES PER DETAIL ON SHEET __. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 8 INSTALL TYPE A (STANDARD WINGS) CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET _____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 12 BEGIN/END CORNER RADIUS. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 13 END NEW CURB. MATCH EXISTING. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
ROADWAY P&P
STA. 27+00 TO END

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PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

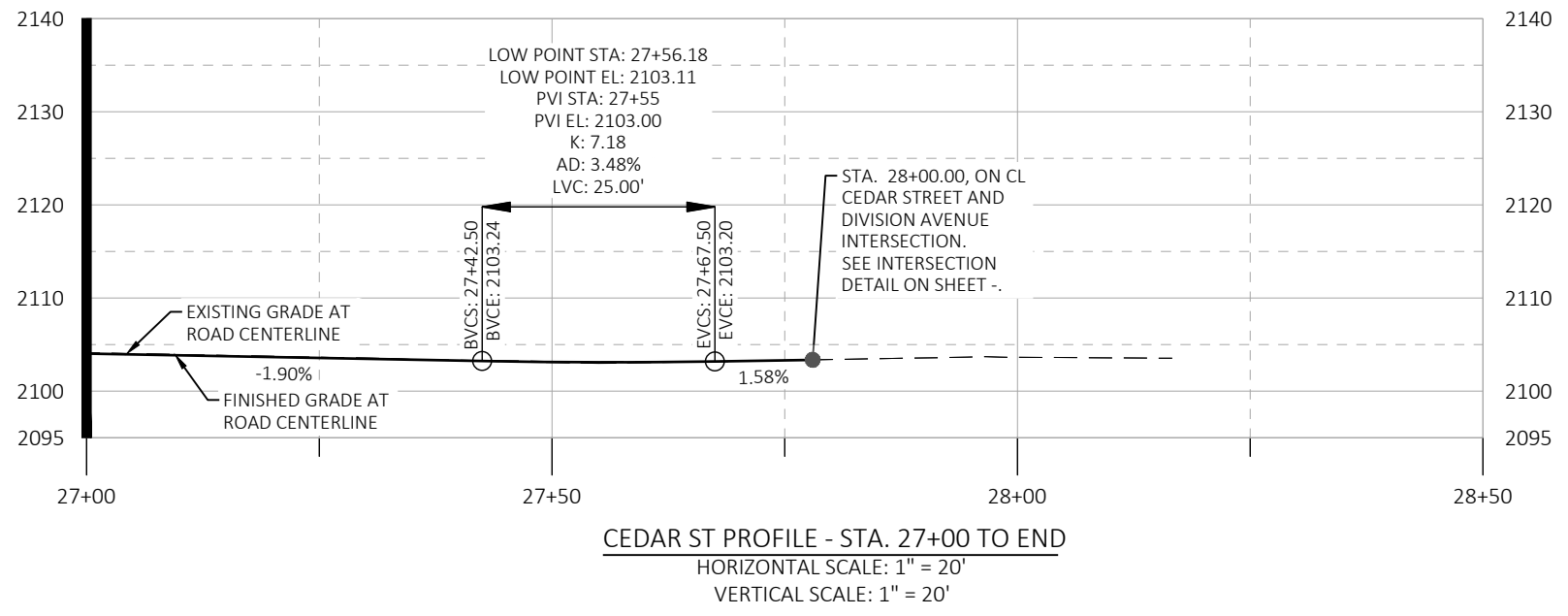
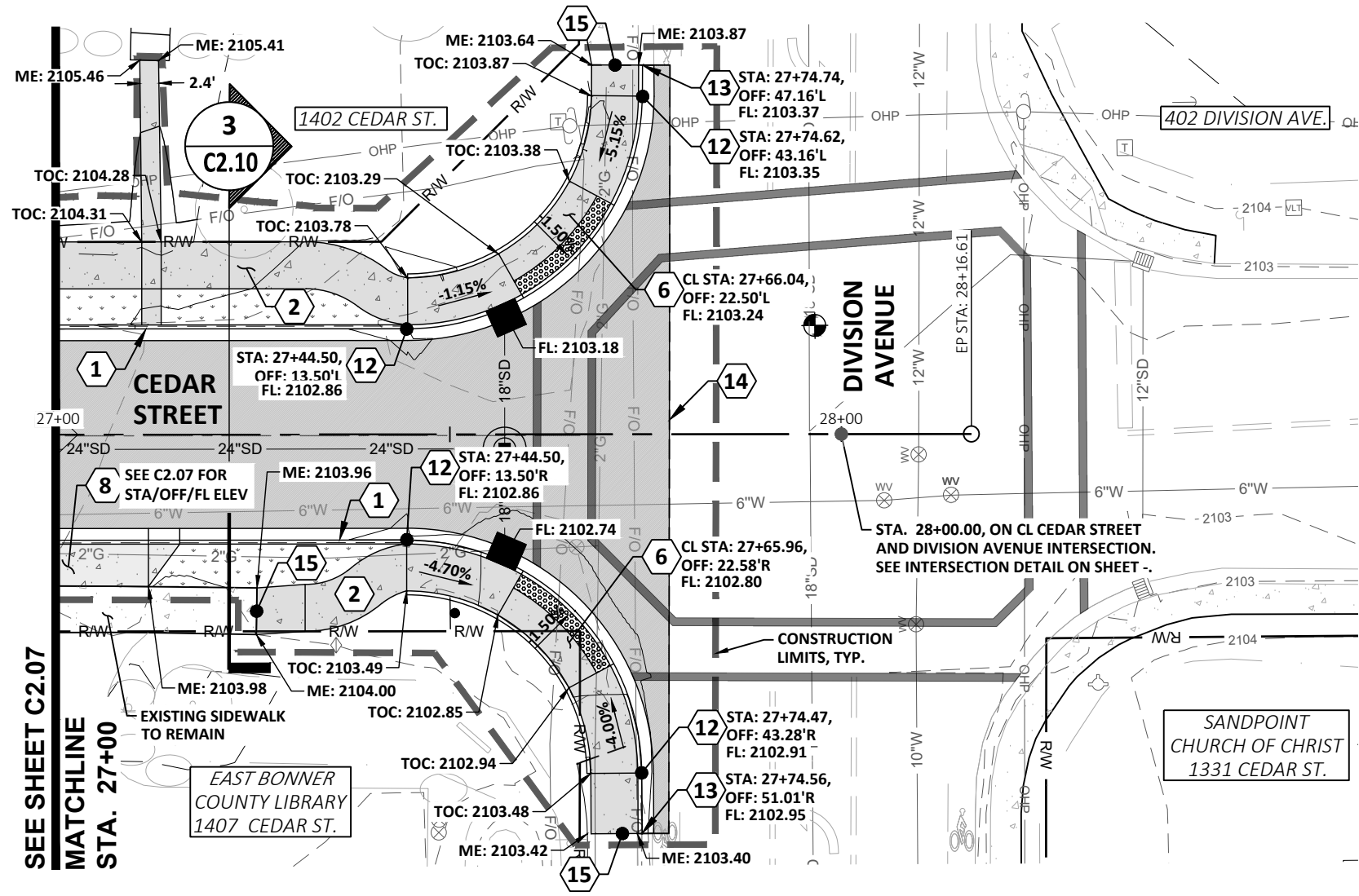
1" SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
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C2.08

DRAWING: 56
SHEET: ---- OF XX



CEDAR ST PROFILE - STA. 27+00 TO END
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

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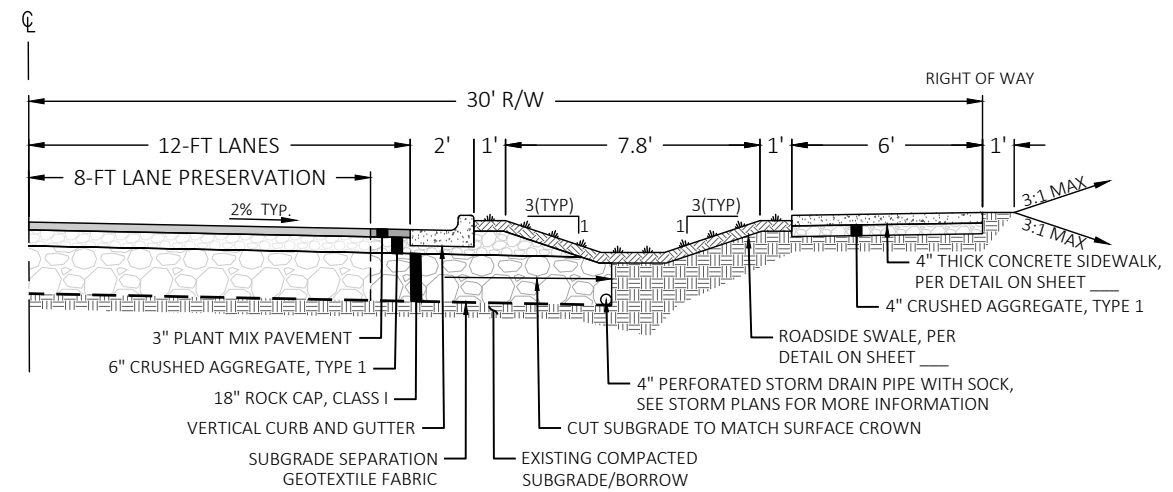
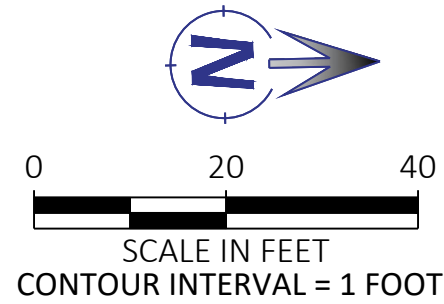


CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

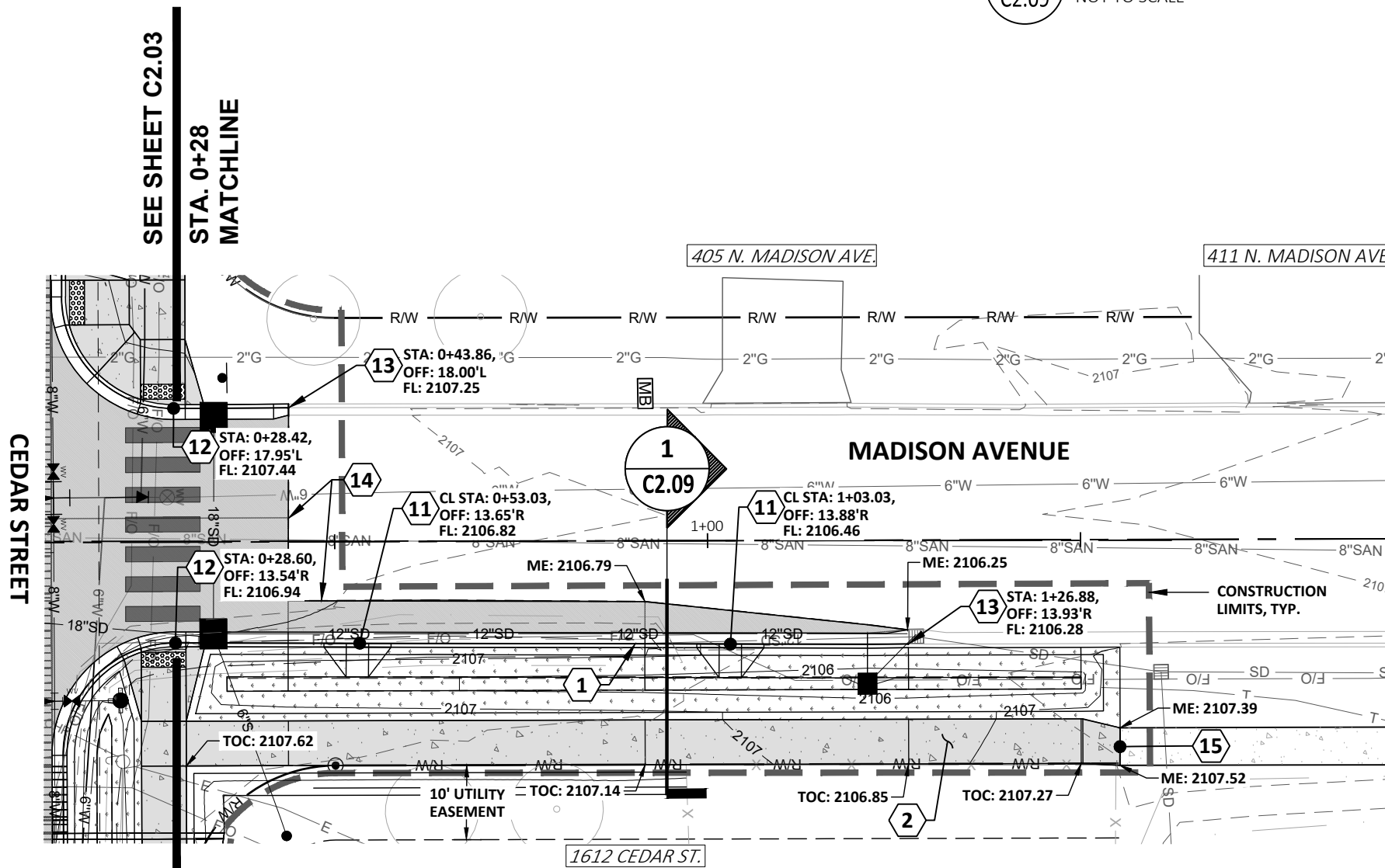
MADISON AVENUE
ROADWAY PLAN
STA. 0+28 TO END

CONSTRUCTION NOTES:

- 1 INSTALL STANDARD 6" VERTICAL CONCRETE CURB & GUTTER PER ISPWC STANDARD DWG. NO. SD-701.
- 2 INSTALL 6' CONCRETE SIDEWALK PER DETAIL ON SHEET ____.
- 11 INSTALL CONCRETE CURB INLET PER DETAIL ON SHEET ____. SEE PLAN FOR CENTERLINE STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 13 END NEW CURB. MATCH EXISTING. SEE PLAN FOR STATION, OFFSET, AND CURB FLOWLINE ELEVATIONS.
- 14 MATCH NEW ASPHALT TO EXISTING SAWCUT EDGE. FORM A CLEAN AND SMOOTH SURFACE.
- 15 MATCH NEW SIDEWALK TO EXISTING EDGE OF SIDEWALK.



1 MADISON AVENUE TYPICAL ROAD SECTION
C2.09 NOT TO SCALE



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FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
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DRAWING: 57
SHEET: --- OF XX

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

TYPICAL ROAD SECTIONS

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FOR CONSTRUCTION

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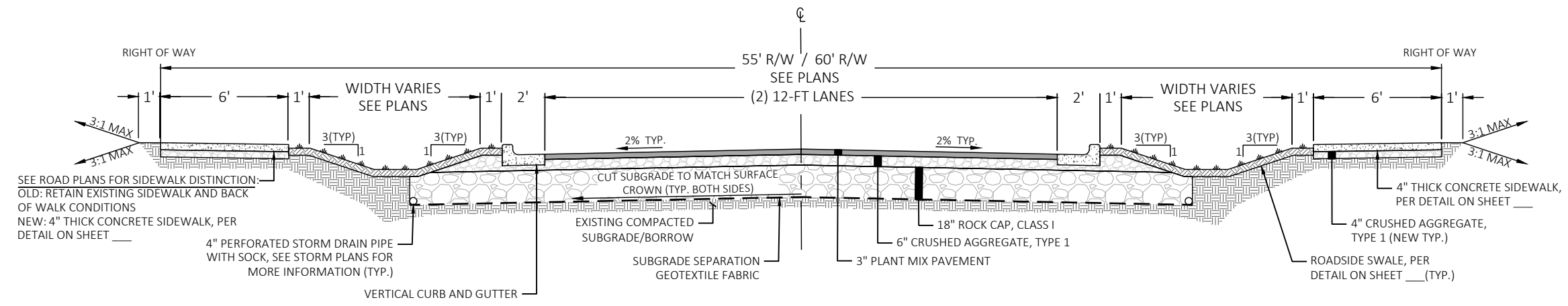
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DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

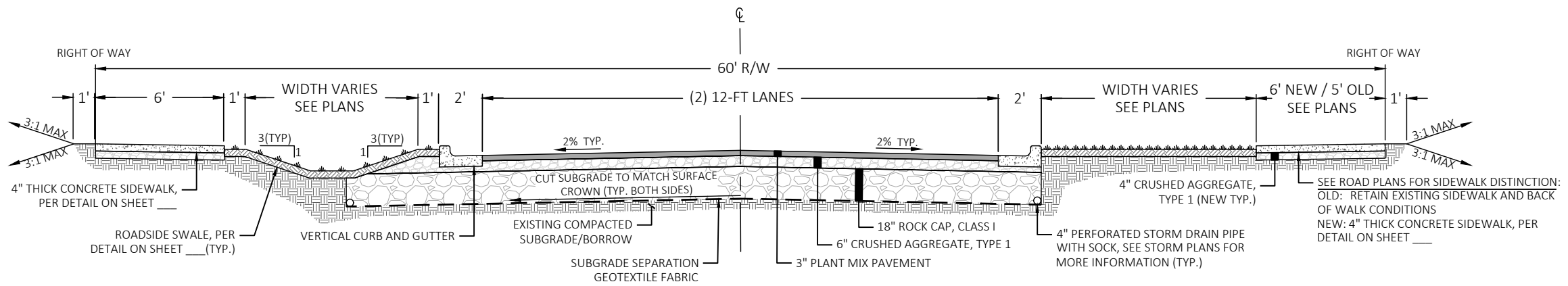
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C2.10

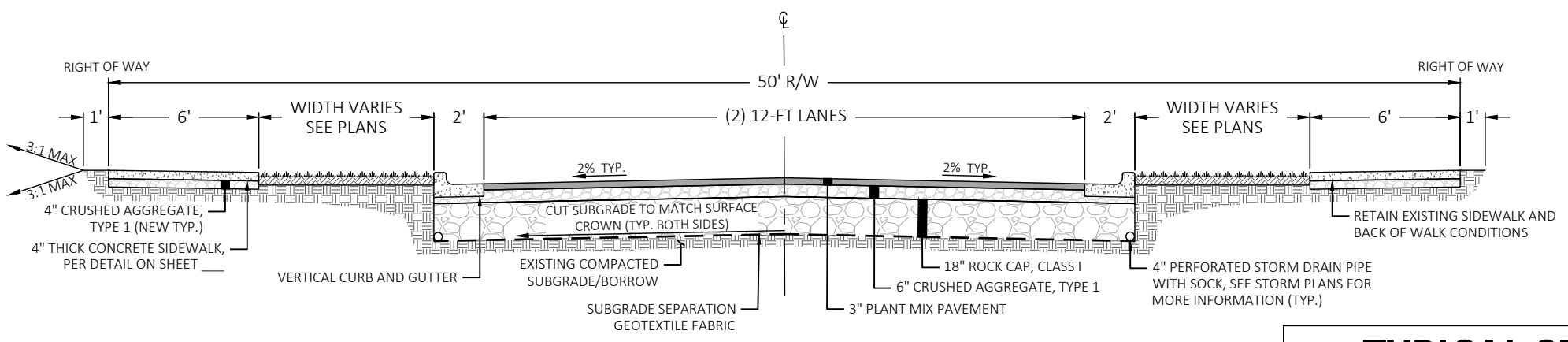
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1 CEDAR STREET TYPICAL ROAD SECTION
C2.10 NOT TO SCALE



2 CEDAR STREET TYPICAL ROAD SECTION
C2.10 NOT TO SCALE

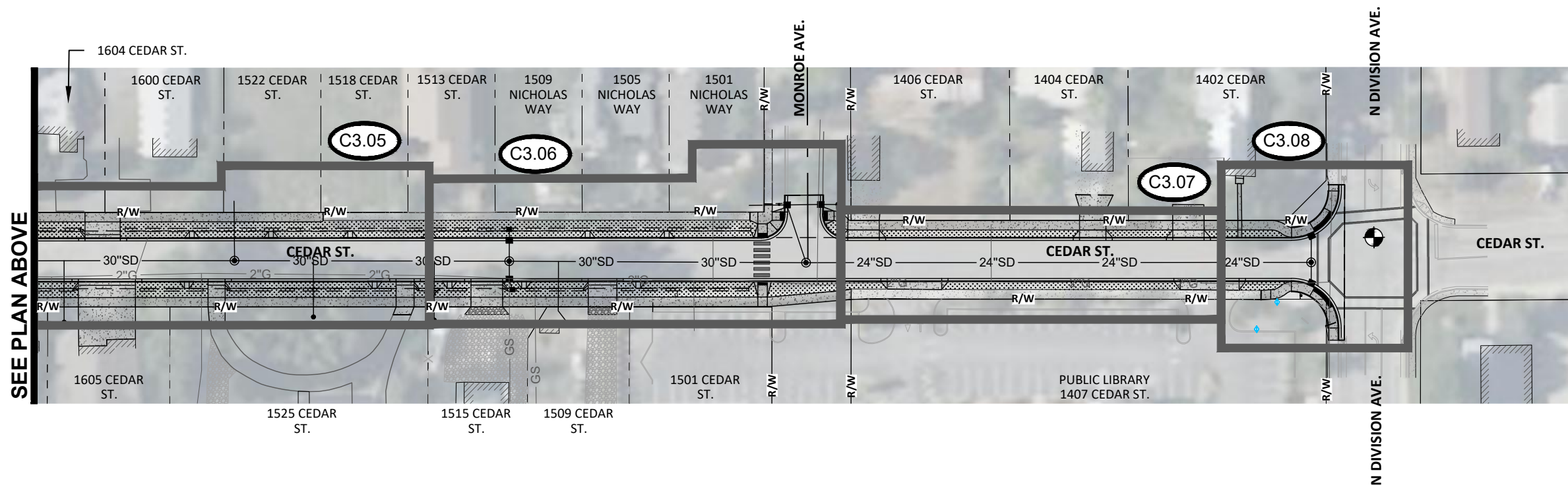
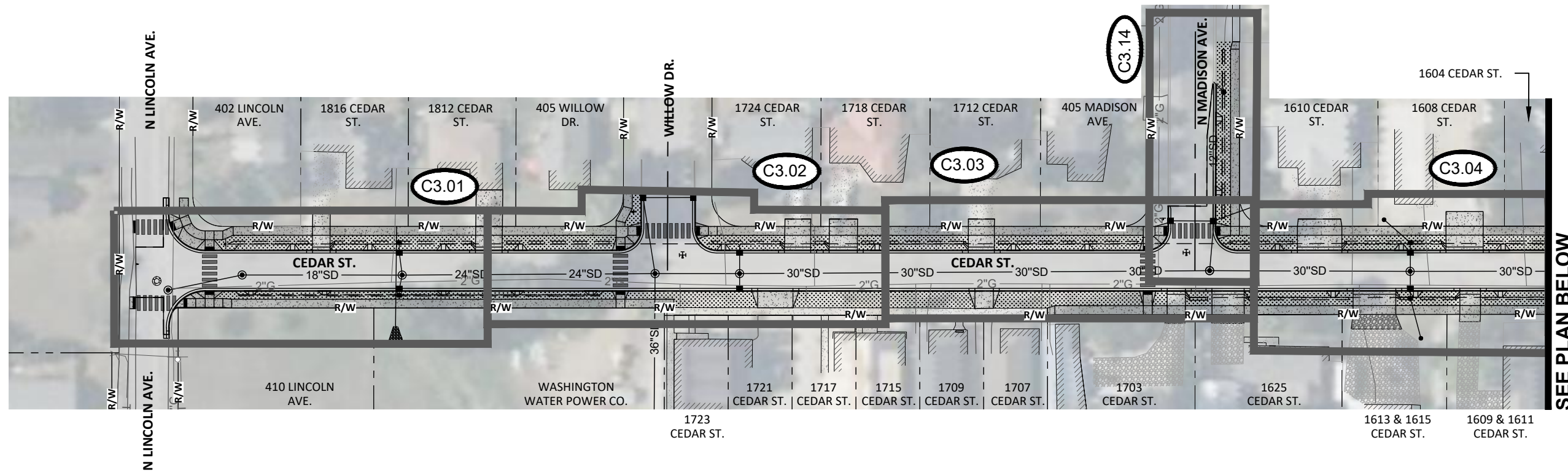
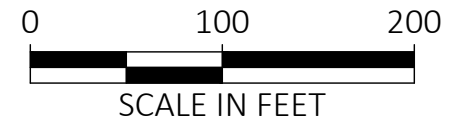


3 CEDAR STREET TYPICAL ROAD SECTION
C2.10 NOT TO SCALE

TYPICAL SECTION RANGE		
TYPICAL SECTION	STATION RANGE	DESCRIPTION
1	STA. 10+38.30 - STA. 13+19.50	55' R/W WITH "NEW" SIDEWALK - NORTH
2	STA. 13+85.59 - STA. 16+09.90	60' R/W WITH "OLD" SIDEWALK - SOUTH
2	STA. 16+14.92 - STA. 16+77.21	60' R/W WITH "NEW" SIDEWALK - SOUTH
1	STA. 17+38.72 - STA. 21+33.04	60' R/W WITH "NEW" SIDEWALK - NORTH
1	STA. 21+33.04 - STA. 24+09.75	60' R/W WITH "OLD" SIDEWALK - NORTH
3	STA. 24+63.39 - STA. 27+44.62	50' R/W

Plot Date: 1/3/2025 9:33 AM, Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - ROAD SECTION.DWG





CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

STORMWATER OVERALL PLAN

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
SCALE: (11X17 ONLY)

DWG: M24005 - Storm Overall.dwg
PROJECT NO: M24005
DRAWN BY: DJJ
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DATE: DECEMBER 2024

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NO. DATE BY DESCRIPTION

C3.00

DRAWING: 59
SHEET: --- OF XX



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PRELIMINARY
FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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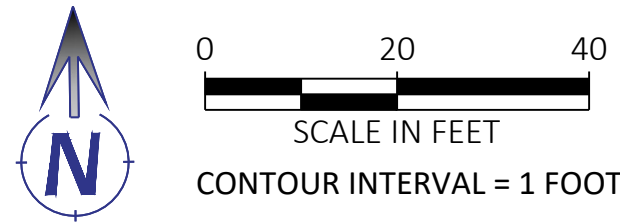
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NO.	DATE	BY	DESCRIPTION

C3.01

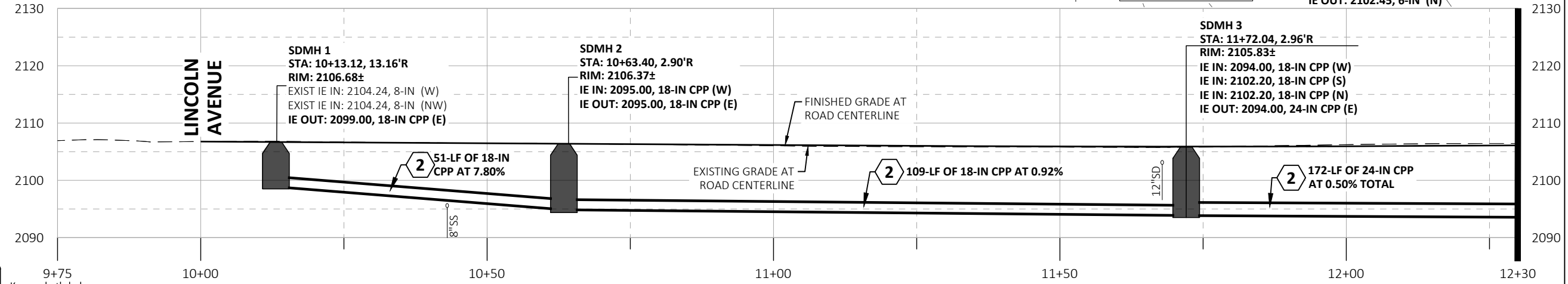
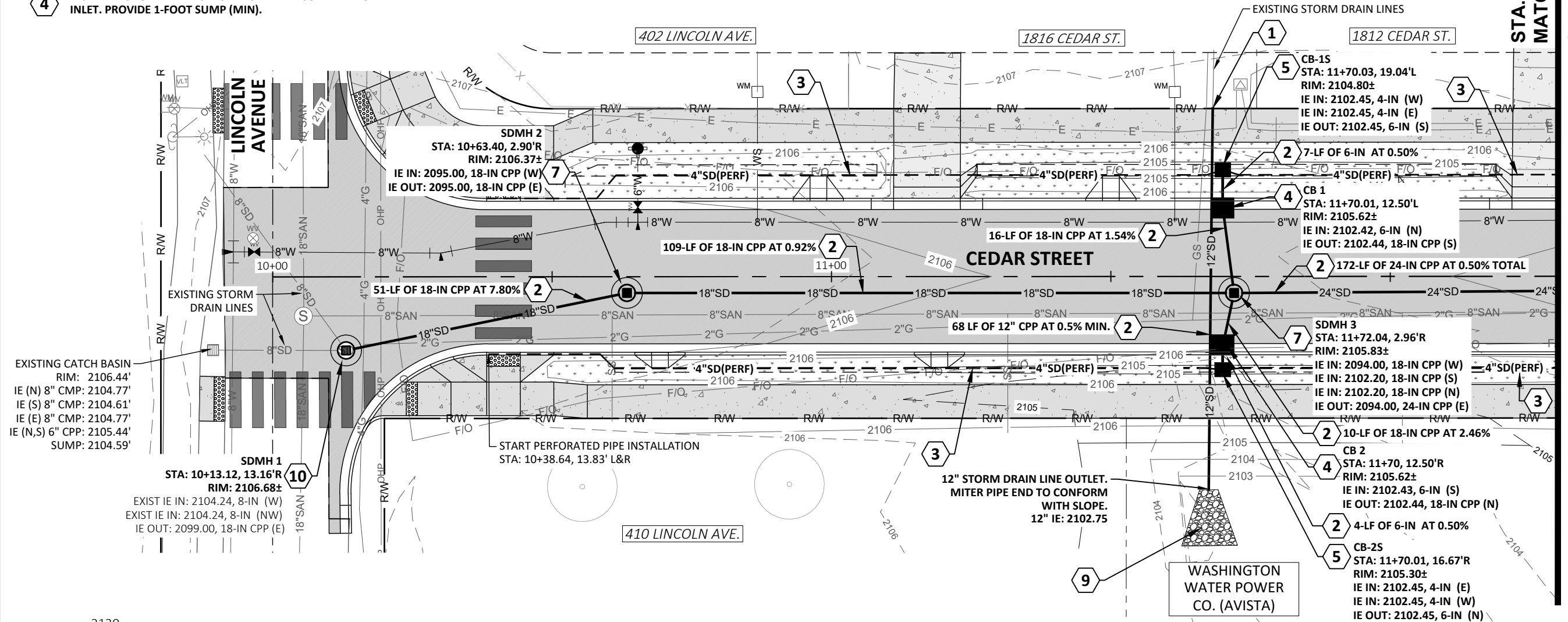
DRAWING: SHEET: --- OF XX 60

CONSTRUCTION NOTES:

- 1 CONNECT TO EXISTING STORM PIPE USING MARMAC DP COUPLER OR APPROVED EQUAL. CONTRACTOR TO POTHOLE TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING PIPE PRIOR TO CONSTRUCTION.
- 2 INSTALL NEW STORM PIPE. SEE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
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- 9 INSTALL RIP RAP APRON. SEE DETAIL ___.
- 10 INSTALL SHALLOW MANHOLE TYPE 1 - RAISED INVERT. SEE ISPWC SD-615A FOR ADDITIONAL INFORMATION.



STA. 12+30
MATCHLINE
SEE SHEET C3.02



CEDAR ST PROFILE - STA. 9+75 TO STA. 12+30
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:34 AM Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS-1.DWG



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
STORMWATER P&P
STA. 12+30 TO STA. 15+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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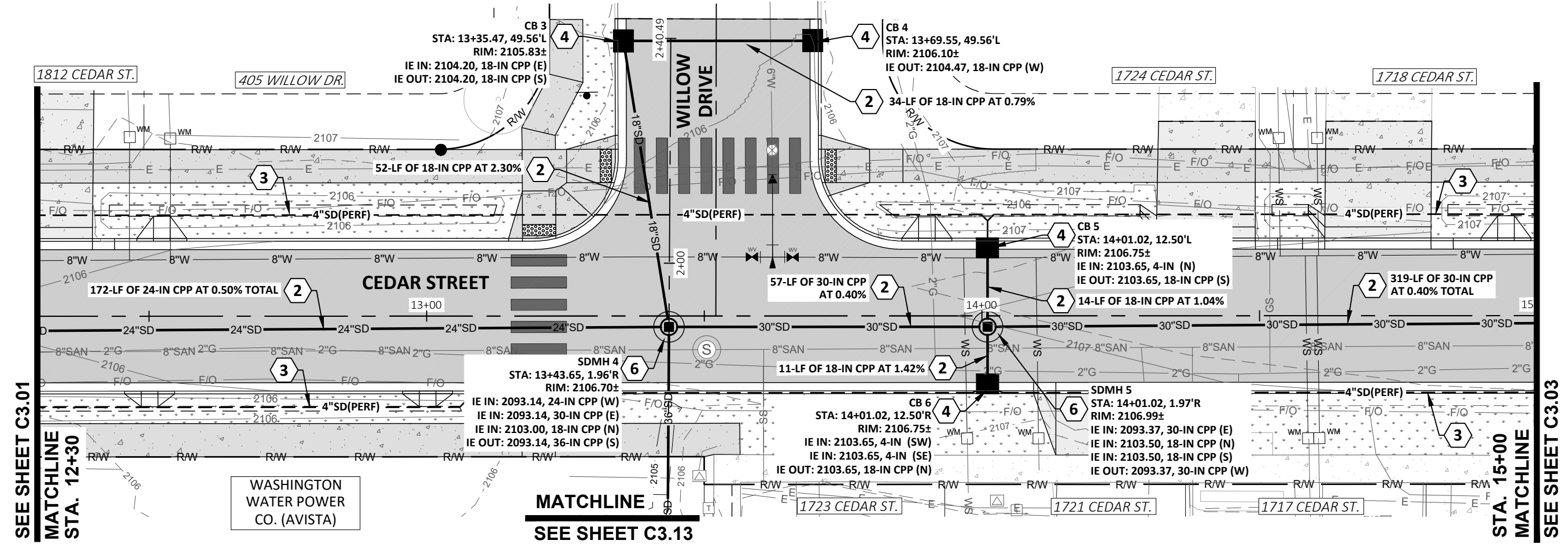
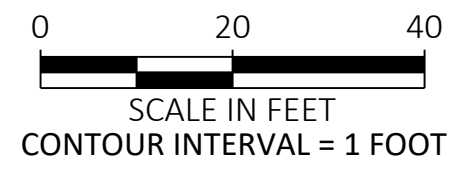
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C3.02

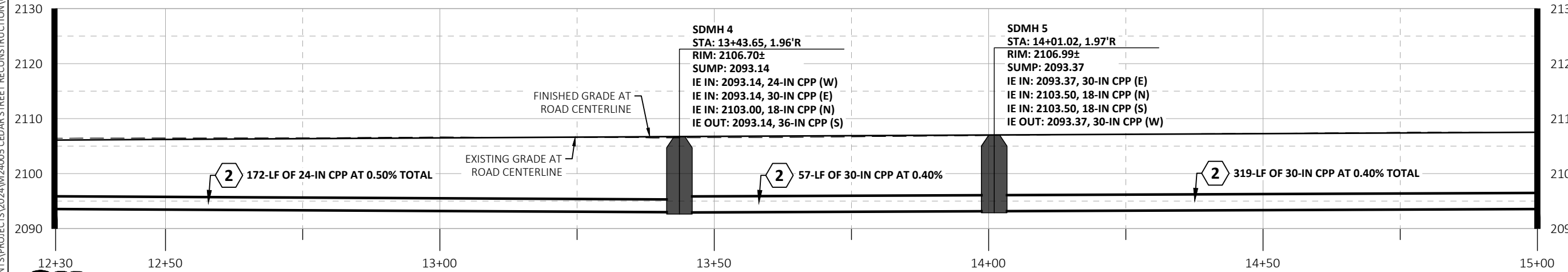
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CONSTRUCTION NOTES:

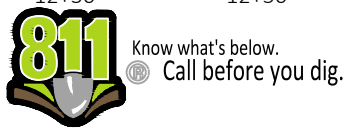
- 1 CONNECT TO EXISTING STORM PIPE USING MARMAC DP COUPLER OR APPROVED EQUAL. CONTRACTOR TO POTHOLE TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING PIPE PRIOR TO CONSTRUCTION.
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- 8 INSTALL 6" STORM DRAIN LATERAL INLET. SEE DETAIL ON SHEET ---.
- 9 INSTALL RIP RAP APRON. SEE DETAIL ---.
- 10 INSTALL SHALLOW MANHOLE TYPE 1 - RAISED INVERT. SEE ISPWC SD-615A FOR ADDITIONAL INFORMATION.



Plot Date: 1/3/2025 9:34 AM Plotted By: Destiny Hilliard Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS-2.DWG

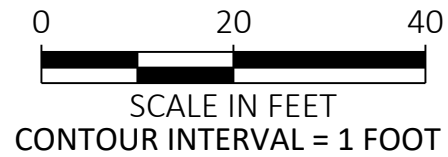


CEDAR ST PROFILE - STA. 12+00 TO STA. 14+50
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VERTICAL SCALE: 1" = 20'

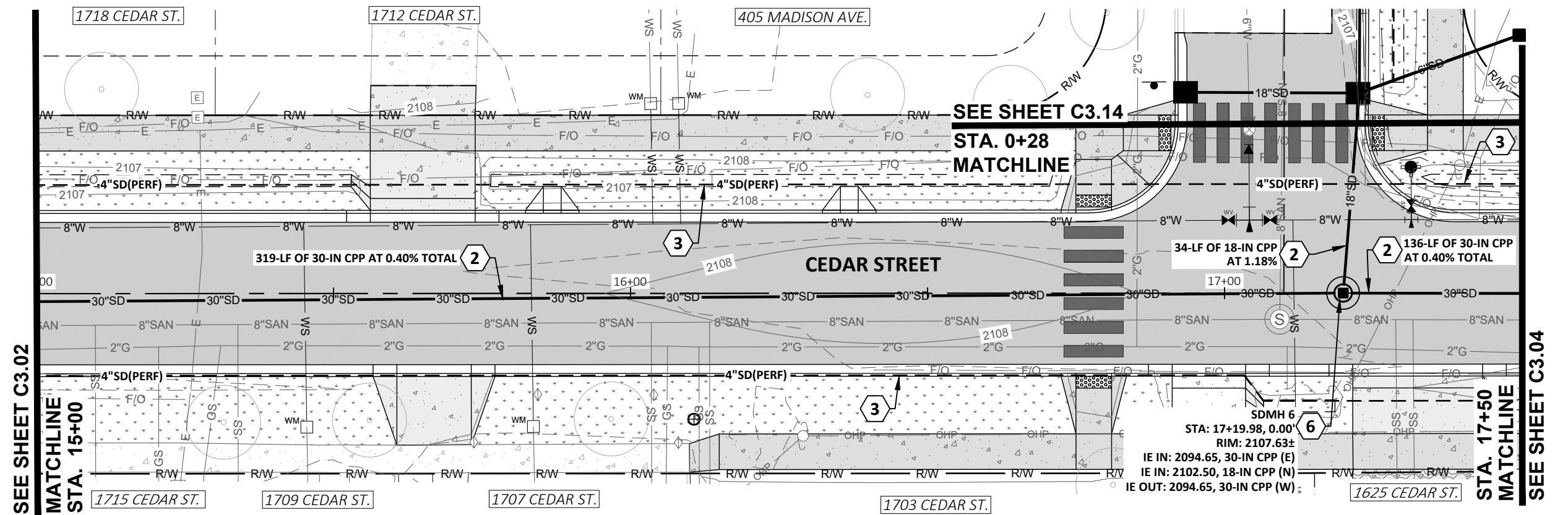


CONSTRUCTION NOTES:

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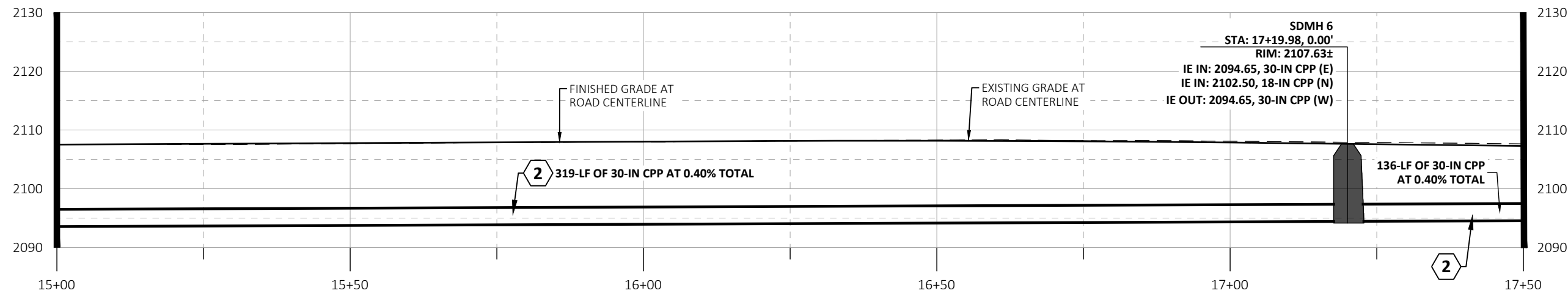


MADISON AVENUE



SEE SHEET C3.02
MATCHLINE
STA. 15+00

STA. 17+50
MATCHLINE
SEE SHEET C3.04



CEDAR ST PROFILE - STA. 14+50 TO STA. 17+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
STORMWATER P&P
STA. 15+00 TO STA. 17+50

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PRELIMINARY
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1"
SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
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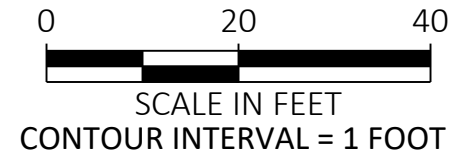
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DRAWING: SHEET: --- OF XX 62



CONSTRUCTION NOTES:

- 1 CONNECT TO EXISTING STORM PIPE USING MARMAC DP COUPLER OR APPROVED EQUAL. CONTRACTOR TO POTHOLE TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING PIPE PRIOR TO CONSTRUCTION.
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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
STORMWATER P&P
STA. 17+50 TO STA. 19+50

NOT
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PRELIMINARY
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CONSTRUCTION

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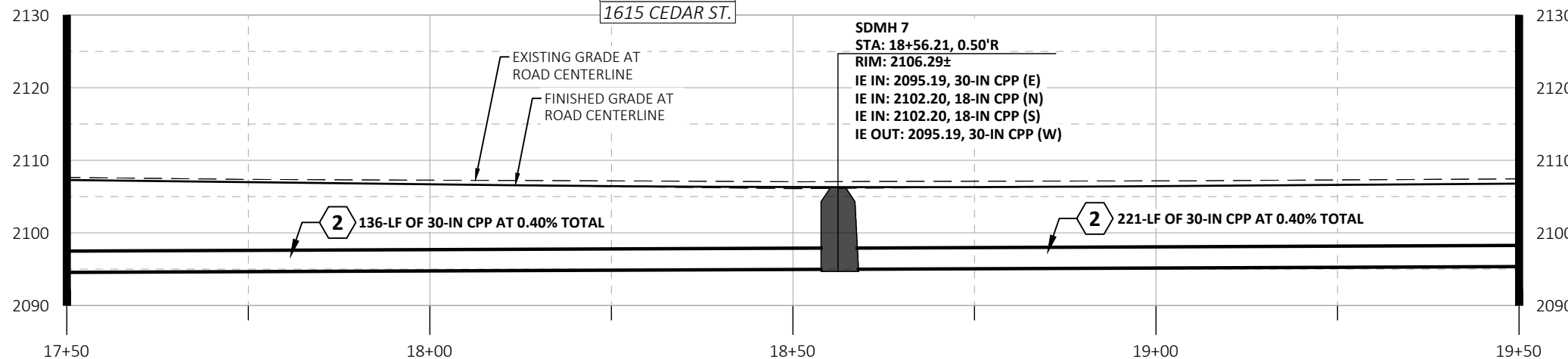
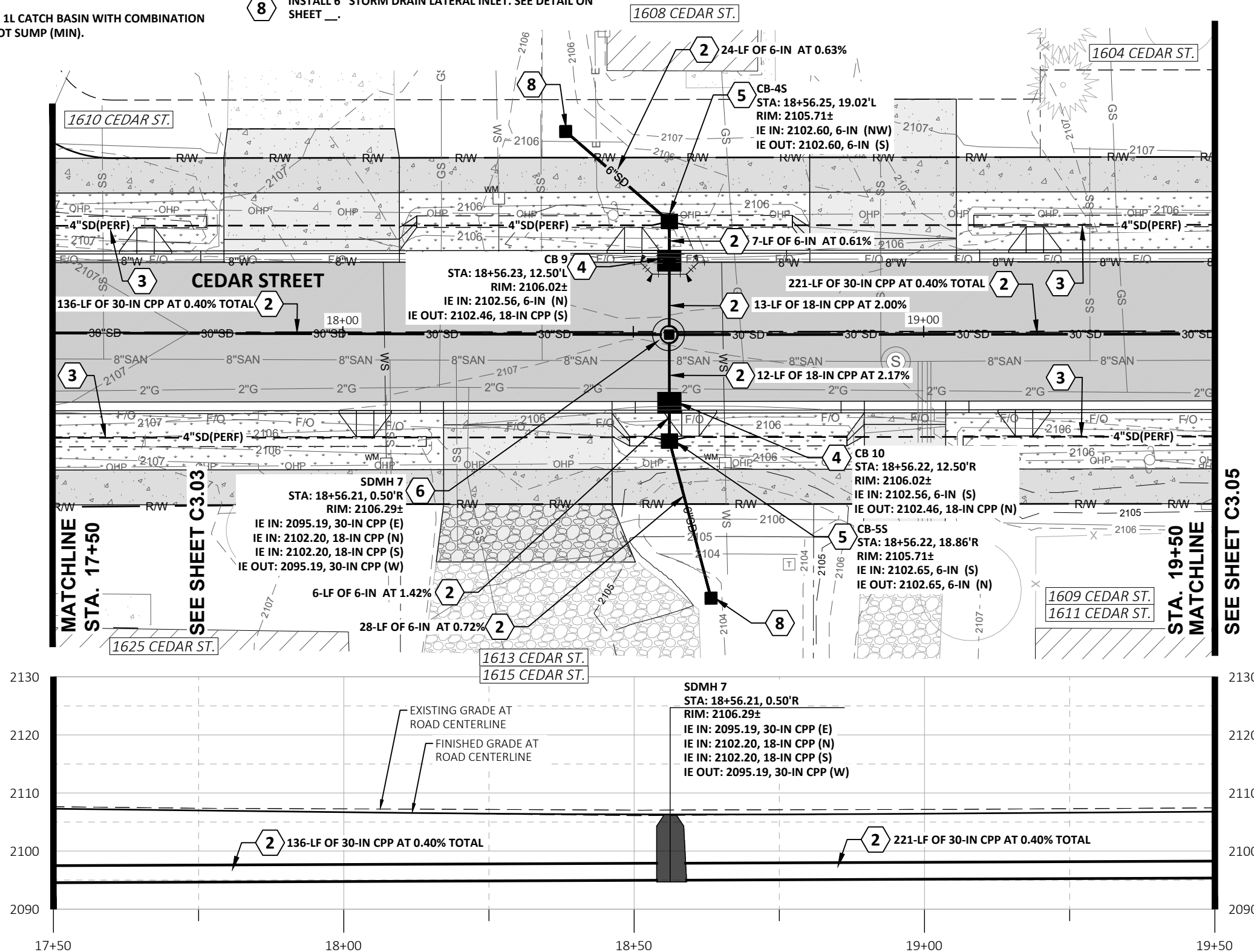
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PROJECT NO: M24005
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C3.04

DRAWING: 63
SHEET: ---- OF XX



CEDAR ST PROFILE - STA. 17+30 TO STA. 19+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:35 AM. Plotted By: Destiny Hilliard
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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
STORMWATER P&P
STA. 19+50 TO STA. 22+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1"
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DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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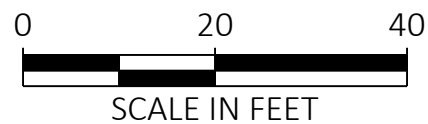
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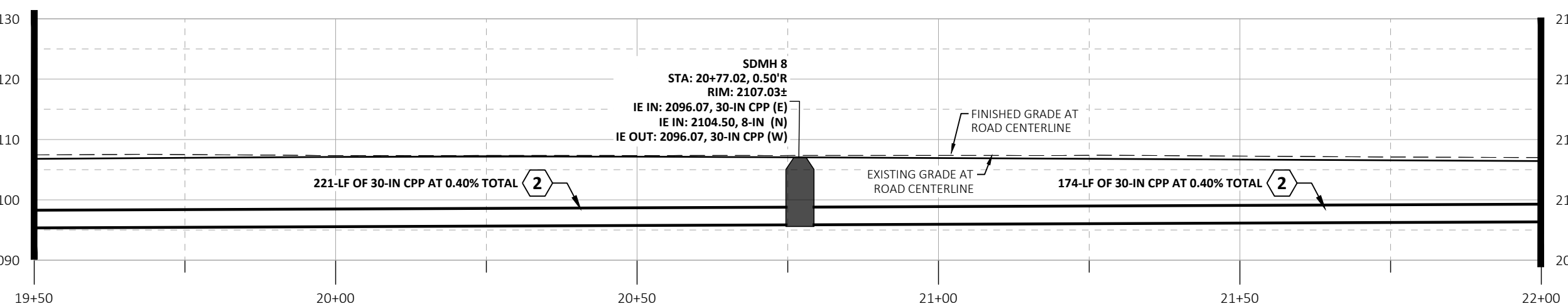
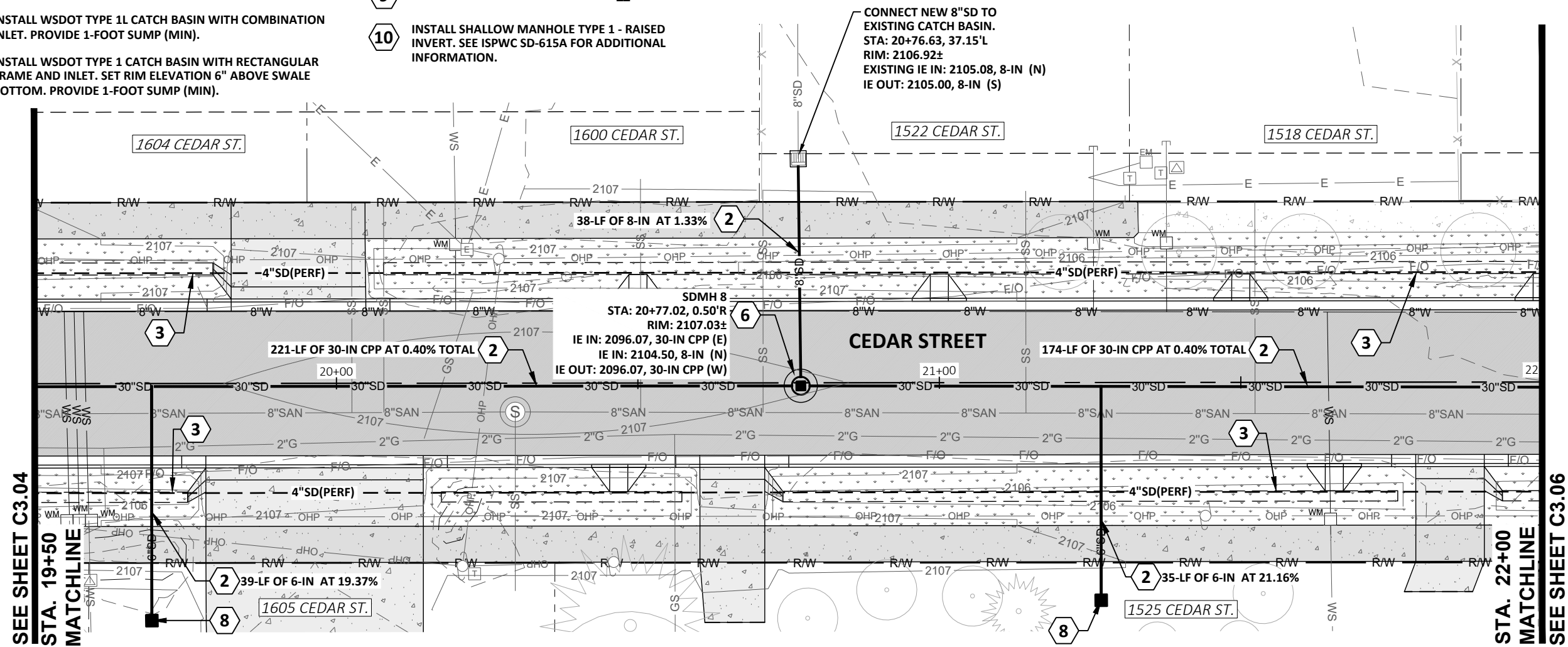
DRAWING: 64
SHEET: --- OF XX

CONSTRUCTION NOTES:

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- 10 INSTALL SHALLOW MANHOLE TYPE 1 - RAISED INVERT. SEE ISPWC SD-615A FOR ADDITIONAL INFORMATION.



SCALE IN FEET
CONTOUR INTERVAL = 1 FOOT



CEDAR ST PROFILE - STA. 19+50 TO STA. 22+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:35 AM Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS-5.DWG



CONSTRUCTION NOTES:

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476864 Highway 95, Suite 3
Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
STORMWATER P&P
STA. 22+00 TO STA. 24+60

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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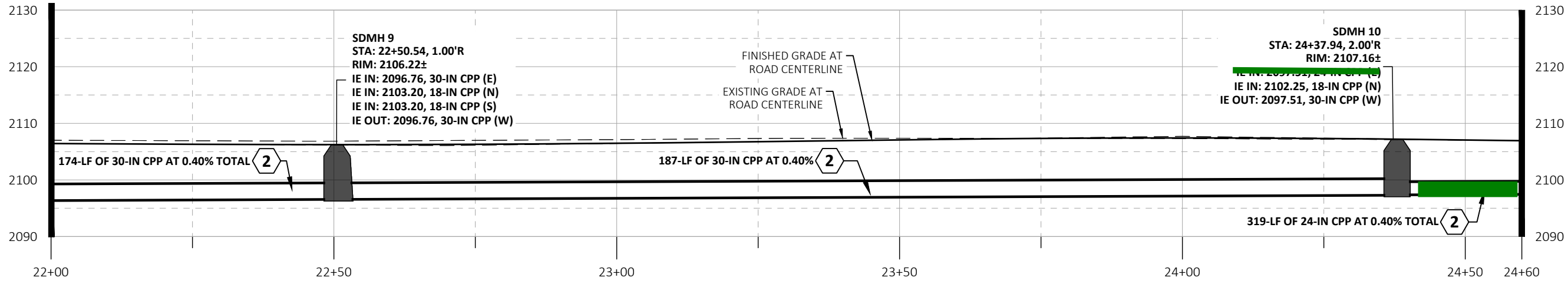
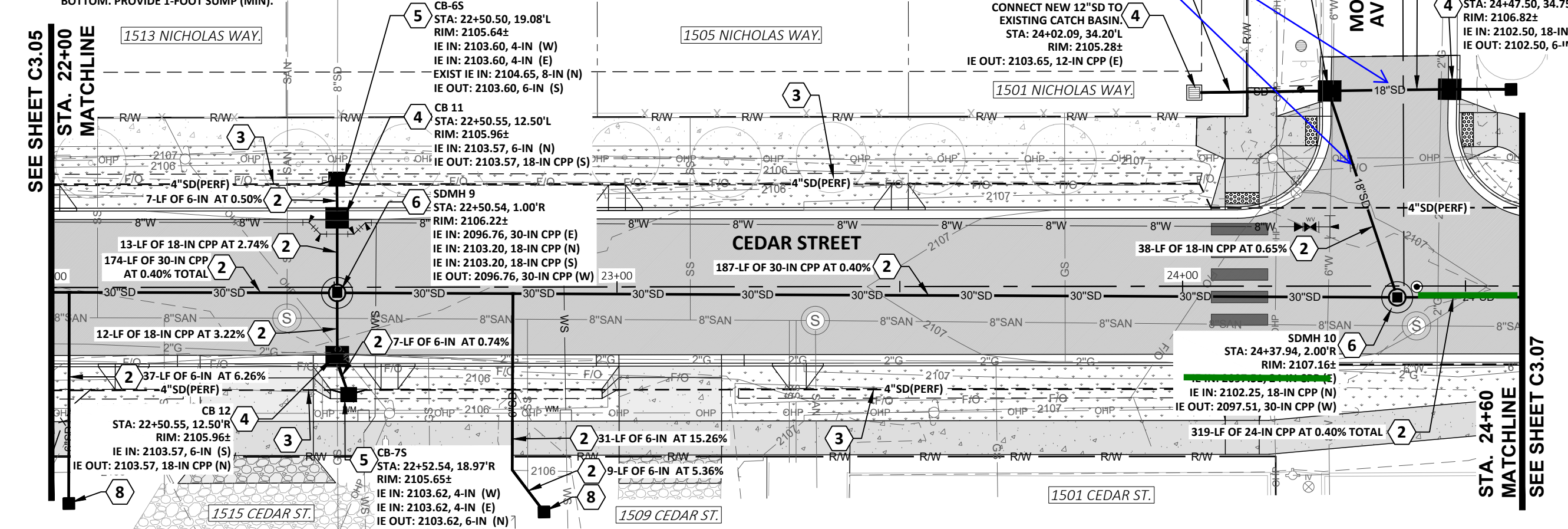
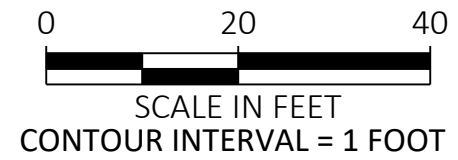
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SEE SHEET C3.05

SEE SHEET C3.07

verify size



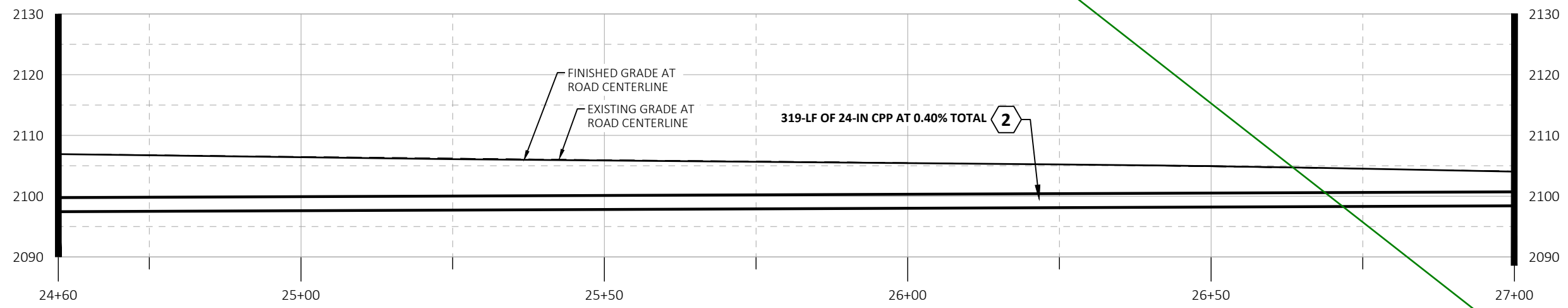
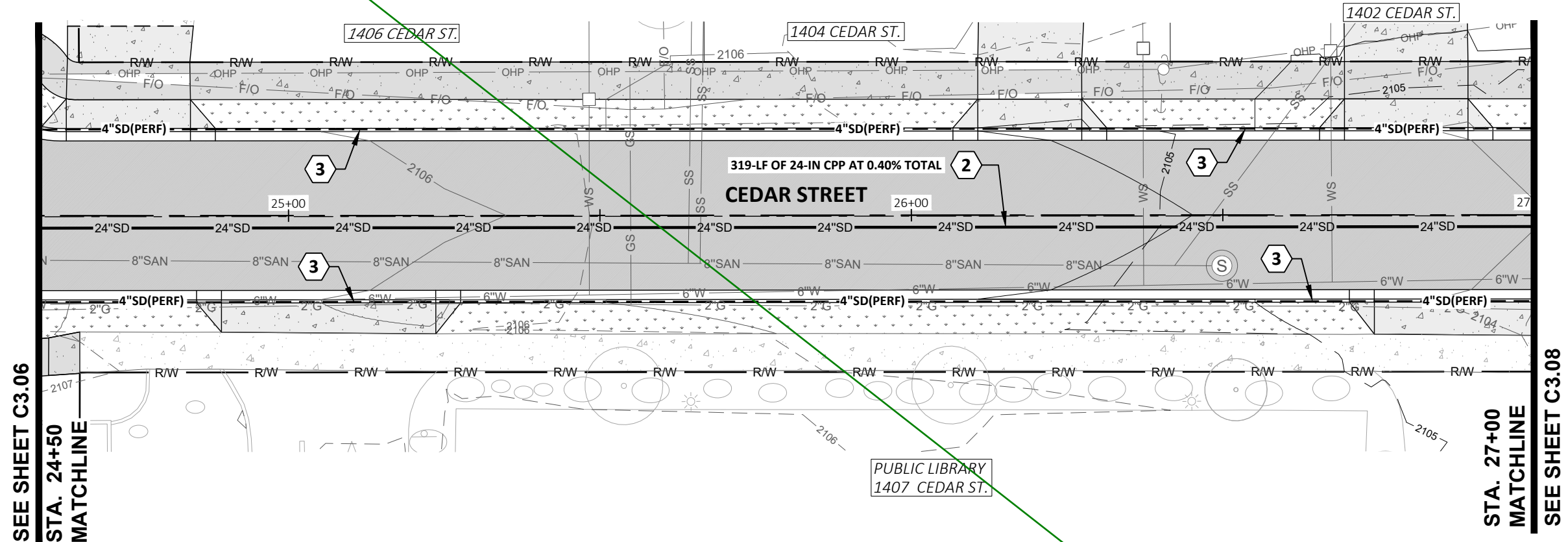
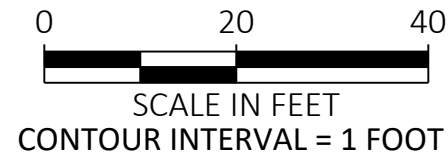
CEDAR ST PROFILE - STA. 22+00 TO STA. 24+60
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:35 AM Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS-6.DWG



CONSTRUCTION NOTES:

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CEDAR ST PROFILE - STA. 24+50 TO STA. 27+00
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 20'

CEDAR STREET RECONSTRUCTION
 CITY OF SANDPOINT, ID
 CEDAR STREET
 STORMWATER P&P
 STA. 24+60 TO STA. 27+00

NOT APPROVED
PRELIMINARY
 FOR CONSTRUCTION

75% REVIEW DOCUMENTS

1"
 SCALE: (11X17 ONLY)

DWG:
 PROJECT NO: M24005
 DRAWN BY: DJJ
 CHECKED BY: DMT
 DATE: DECEMBER 2024

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C3.07

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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
STORMWATER P&P
STA. 27+00 TO END

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

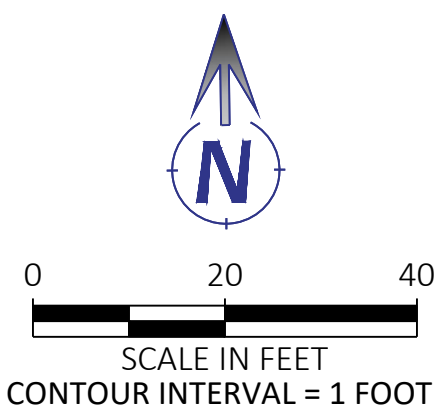
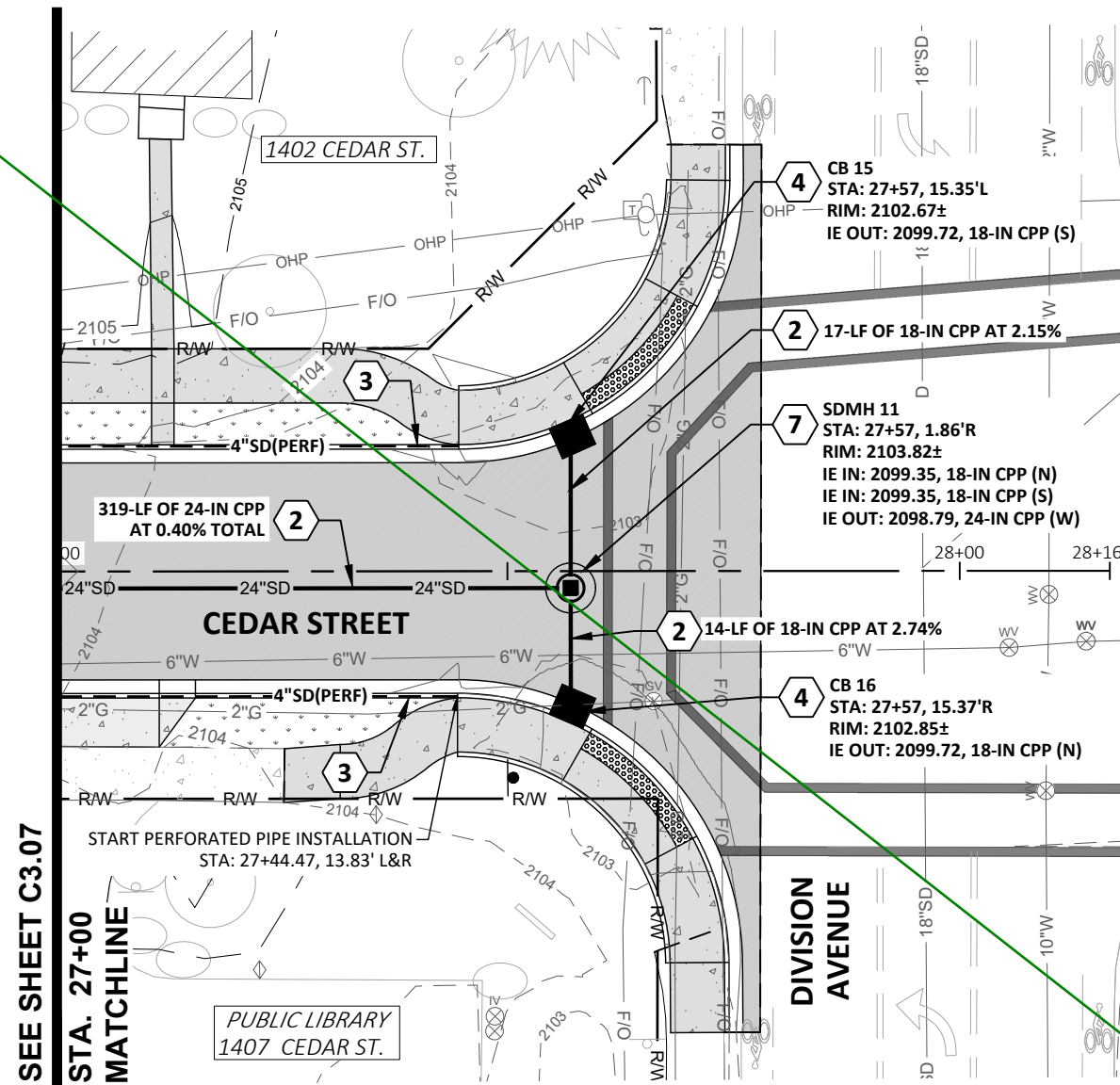
1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO. DATE BY DESCRIPTION

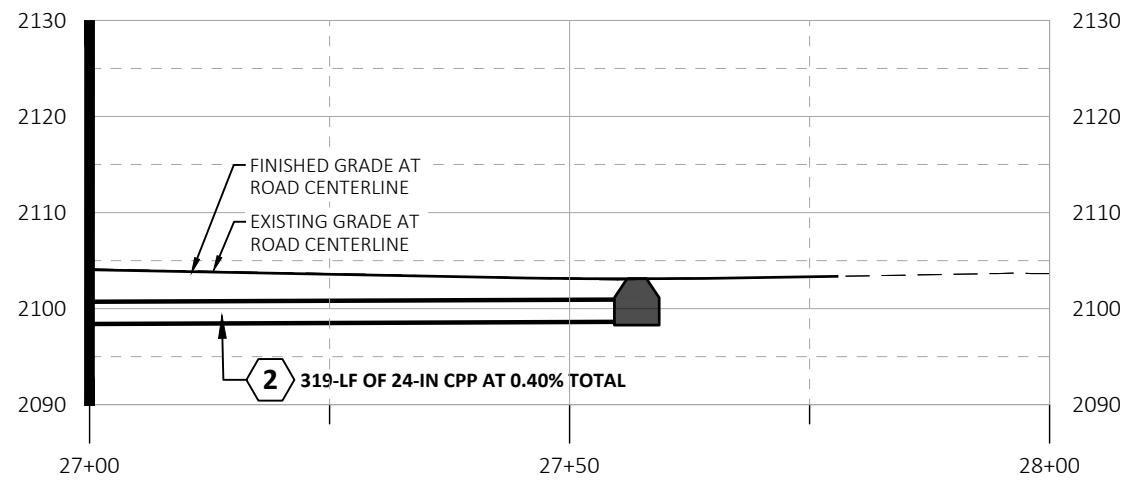
C3.08

DRAWING: 67
SHEET: --- OF XX



CONSTRUCTION NOTES:

- 1 CONNECT TO EXISTING STORM PIPE USING MARMAC DP COUPLER OR APPROVED EQUAL. CONTRACTOR TO POTHOLE TO VERIFY LOCATION, MATERIAL, SIZE AND EPTH OF EXISTING PIPE PRIOR TO CONSTRUCTION.
- 2 INSTALL NEW STORM PIPE. SEE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
- 3 INSTALL NEW 4" PERFORATED STORM PIPE MATCHING ROAD GRADE TO NEAREST DOWN GRADIENT CATCH BASIN. SEE PLAN BELOW AND TYPICAL ROAD SECTION FOR ADDITIONAL INFORMATION.
- 4 INSTALL WSDOT TYPE 1L CATCH BASIN WITH COMBINATION INLET. PROVIDE 1-FOOT SUMP (MIN).
- 5 INSTALL WSDOT TYPE 1 CATCH BASIN WITH RECTANGULAR FRAME AND INLET. SET RIM ELEVATION 6" ABOVE SWALE BOTTOM. PROVIDE 1-FOOT SUMP (MIN).
- 6 INSTALL STANDARD MANHOLE TYPE B, DEEP-RAISED INVERT. 54" I.D. WITH 2-FOOT SUMP. SEE ISPWC SD-614A FOR ADDITIONAL INFORMATION.
- 7 INSTALL STANDARD CONCRETE CATCH MANHOLE WITH 2-FOOT SUMP. SEE ISPWC SD-611 FOR ADDITIONAL INFORMATION.
- 8 INSTALL 6" STORM DRAIN LATERAL INLET. SEE DETAIL ON SHEET ___.
- 9 INSTALL RIP RAP APRON. SEE DETAIL ___.
- 10 INSTALL SHALLOW MANHOLE TYPE 1 - RAISED INVERT. SEE ISPWC SD-615A FOR ADDITIONAL INFORMATION.



CEDAR ST PROFILE - STA. 27+00 TO END
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

SEE SHEET C3.07

STA. 27+00
MATCHLINE

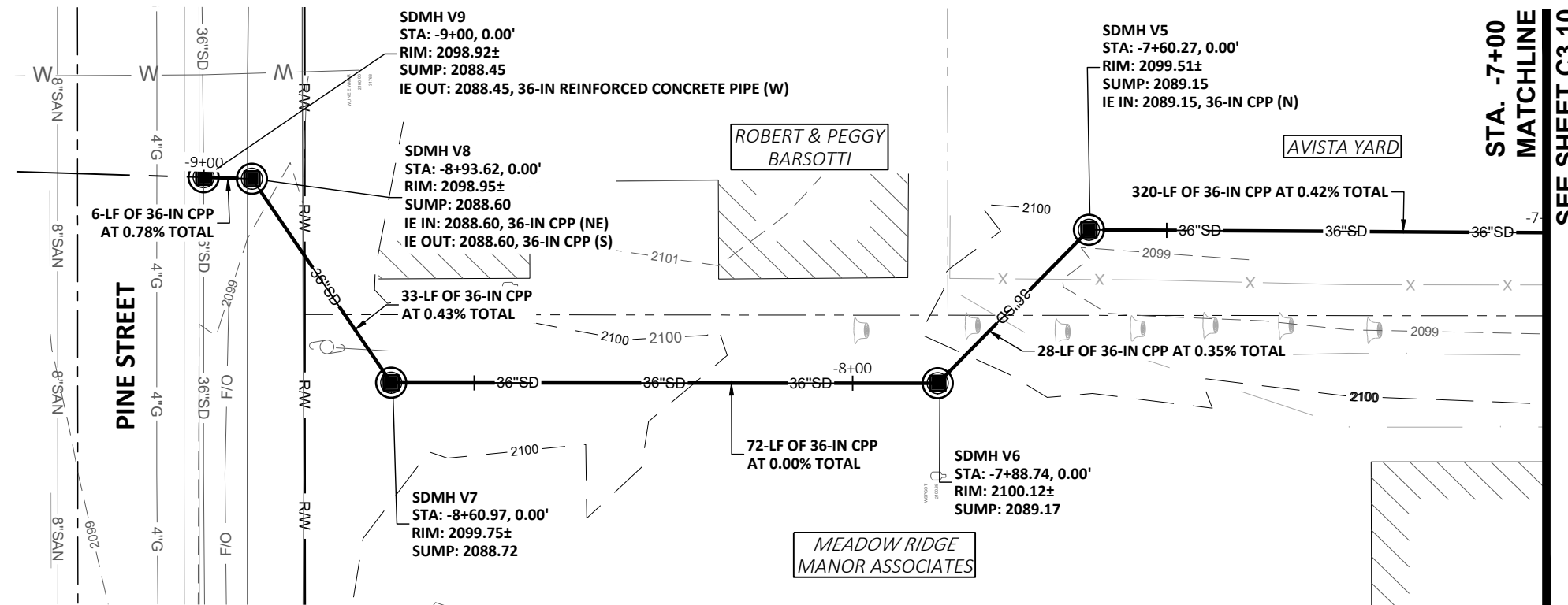
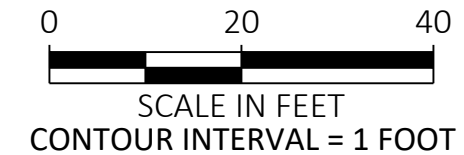
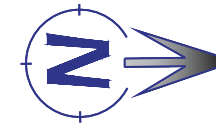
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319-LF OF 24-IN CPP
AT 0.40% TOTAL

CEDAR STREET

DIVISION AVENUE

1402 CEDAR ST.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

OFF-SITE
STORMWATER P&P
STA. -9+25 TO STA. -7+00

NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION

75% REVIEW
DOCUMENTS

1"
SCALE: (11X17 ONLY)

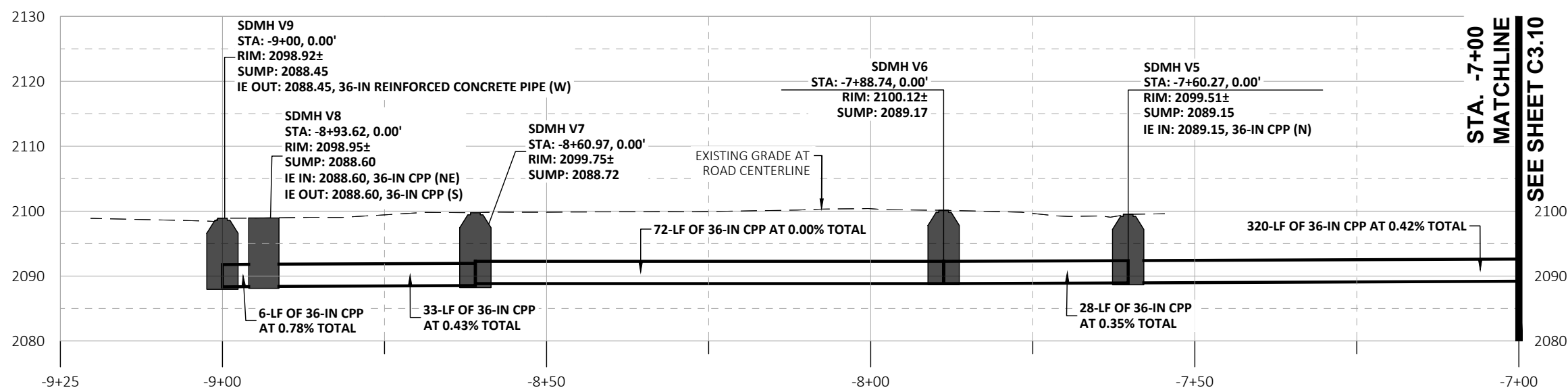
DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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NO.	DATE	BY	DESCRIPTION

C3.09

DRAWING:
SHEET: ---- OF XX

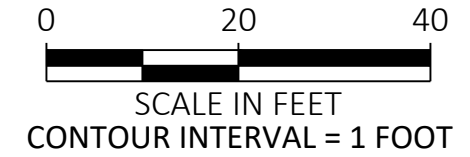


OFF-SITE PROFILE - STA. -9+25 TO STA. -7+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:36 AM Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS OFFSITE.DWG



CONSTRUCTION NOTES:



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Ponderay, ID 83852
(208) 635-5825

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

OFF-SITE
STORMWATER P&P
STA. -7+00 TO STA. -4+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
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DATE: DECEMBER 2024

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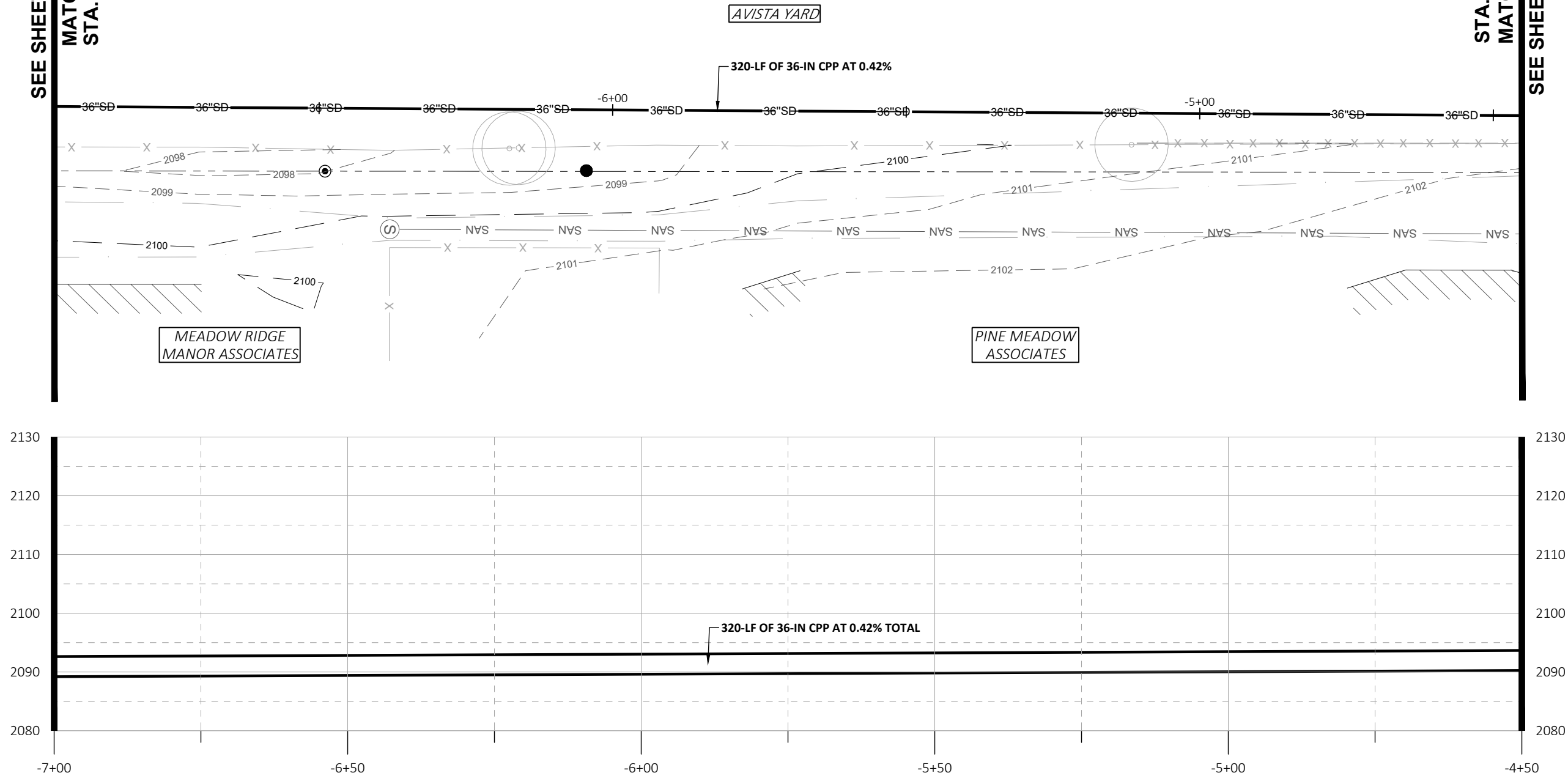
NO.	DATE	BY	DESCRIPTION

C3.10

DRAWING: 69
SHEET: ---- OF XX

SEE SHEET C3.09
MATCHLINE
STA. -7+00

STA. -4+50
MATCHLINE
SEE SHEET C3.11

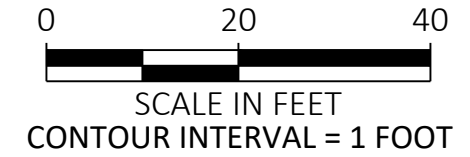


OFF-SITE PROFILE - STA. -7+00 TO STA. -4+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:36 AM, Plotted By: Destiny Hilliard
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CONSTRUCTION NOTES:



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Ponderay, ID 83852
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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

OFF-SITE
STORMWATER P&P
STA. -4+50 TO STA. -2+00

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FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

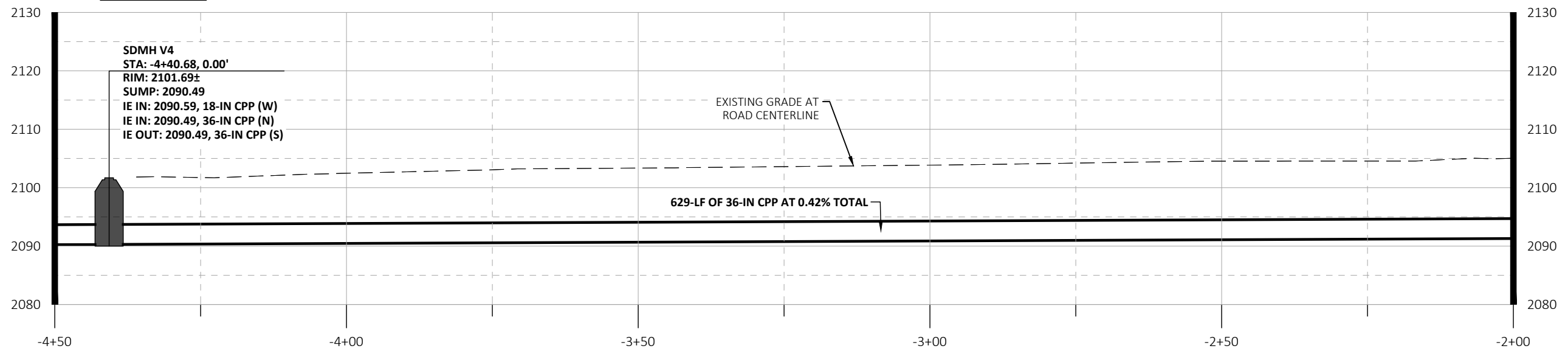
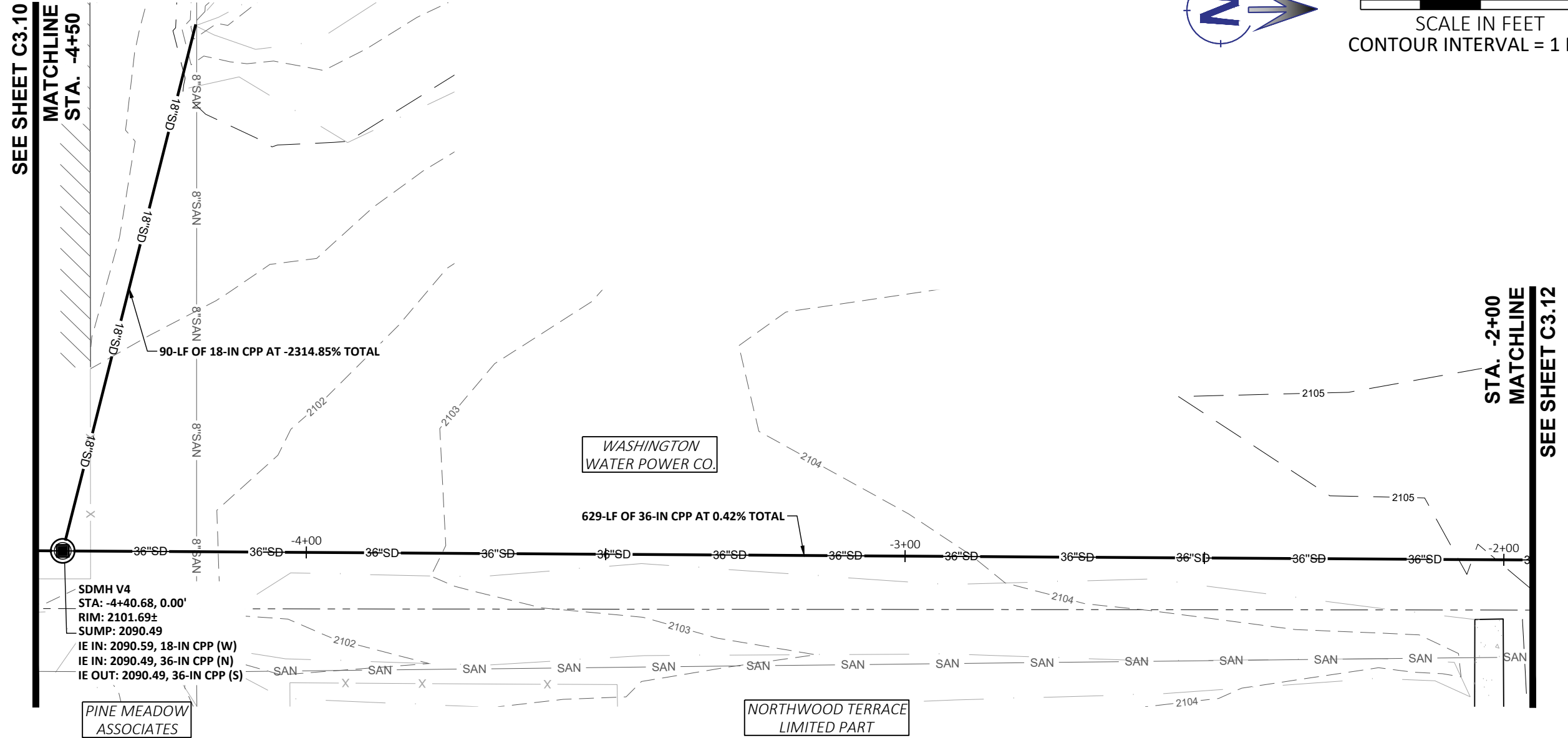
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NO.	DATE	BY	DESCRIPTION

C3.11

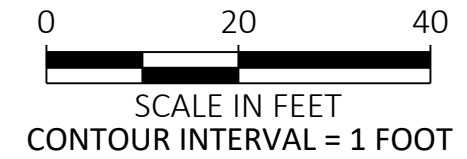
DRAWING: 70
SHEET: ---- OF XX



OFF-SITE PROFILE - STA. -4+50 TO STA. -2+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:36 AM Plotted By: Destiny Hilliard Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - STORM PPS OFFSITE.DWG





CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

OFF-SITE
STORMWATER P&P
STA. -2+00 TO STA. 0+50

NOT
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FOR
CONSTRUCTION

75% REVIEW
DOCUMENTS

1"
SCALE: (11X17 ONLY)

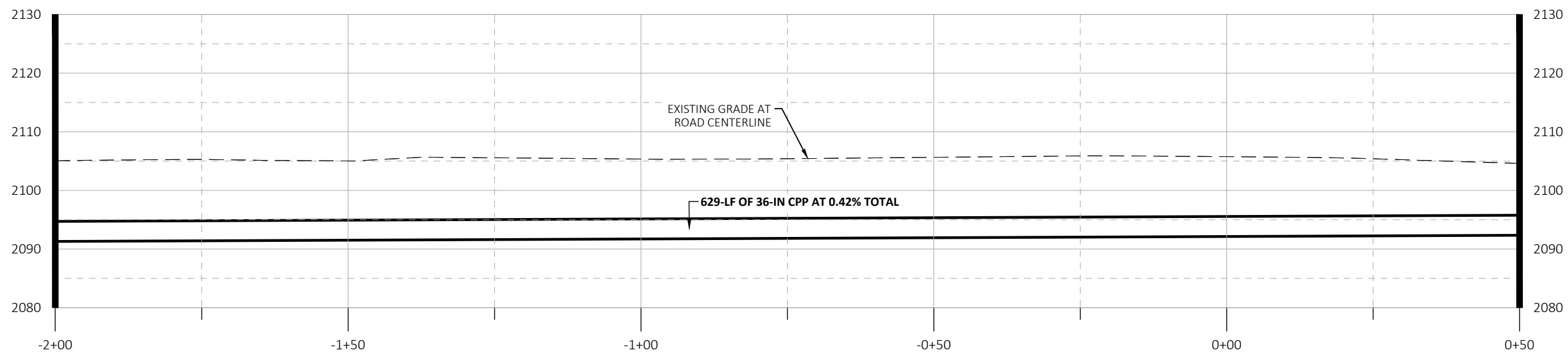
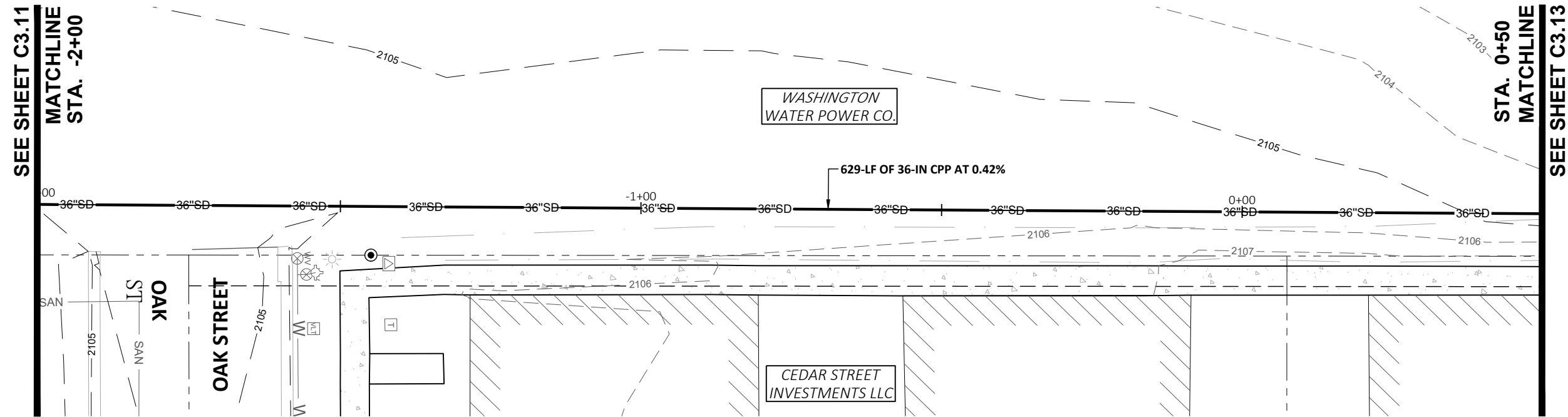
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PROJECT NO: M24005
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CHECKED BY: DMT
DATE: DECEMBER 2024

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NO.	DATE	BY	DESCRIPTION
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C3.12

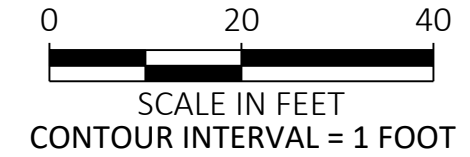
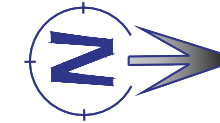
DRAWING: 71
SHEET: ---- OF XX



OFF-SITE PROFILE - STA. -2+00 TO STA. 0+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



CONSTRUCTION NOTES:



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

OFF-SITE
STORMWATER P&P
STA. 0+50 TO STA. 2+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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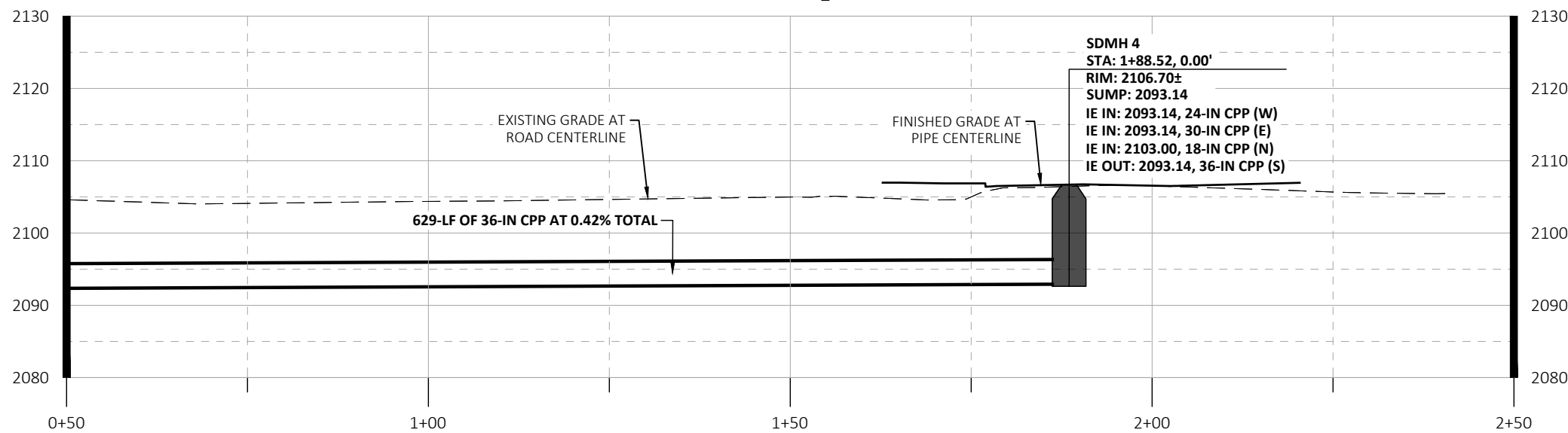
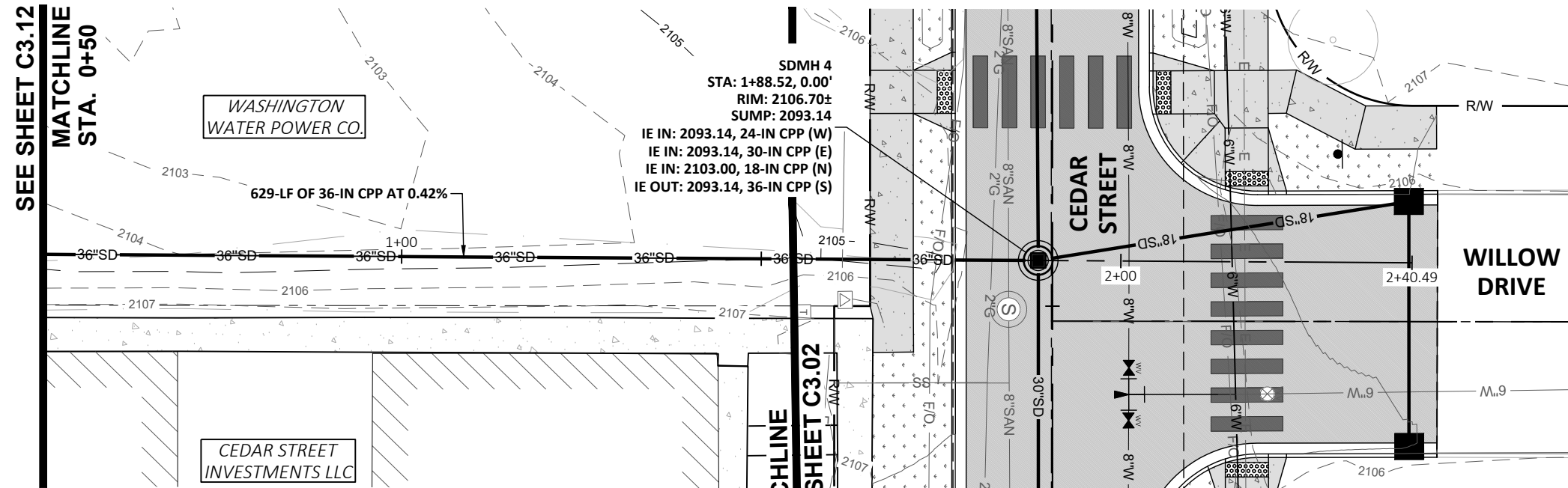
1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
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DATE: DECEMBER 2024

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C3.13

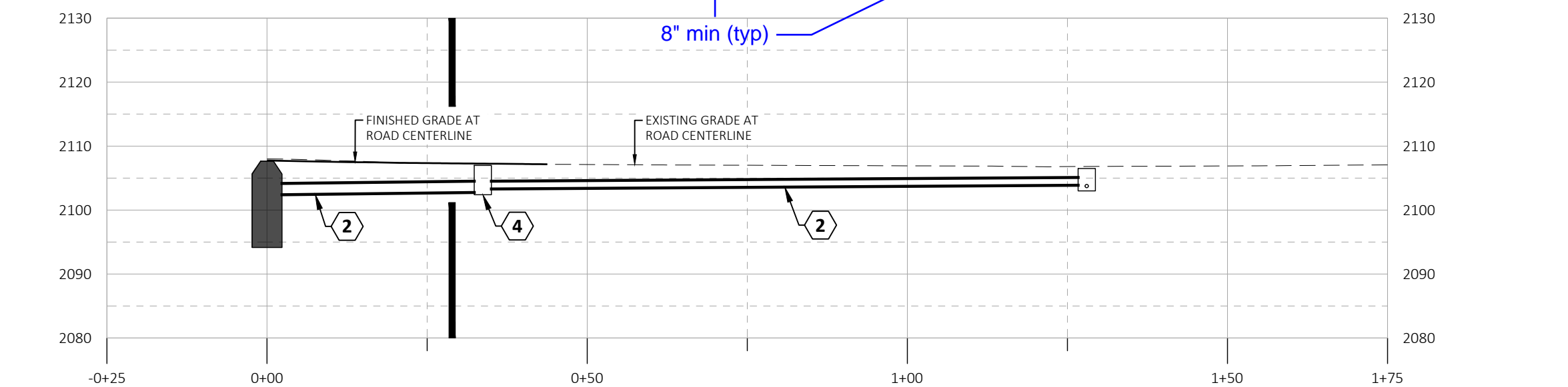
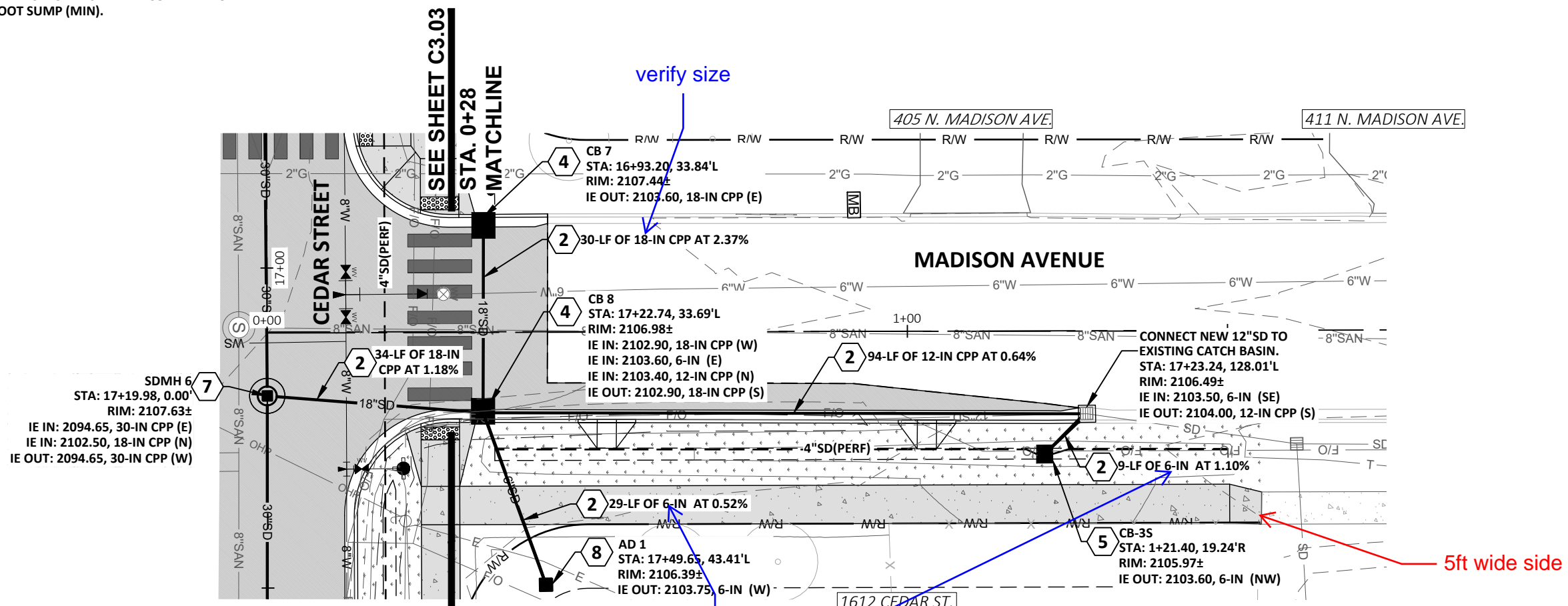
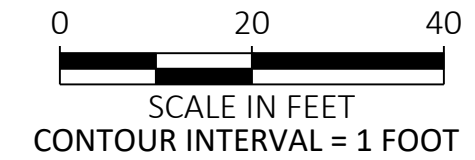
DRAWING: 72
SHEET: --- OF XX



OFF-SITE PROFILE - STA. 0+50 TO STA. 2+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

CONSTRUCTION NOTES:

- 1 CONNECT TO EXISTING STORM PIPE USING MARMAC DP COUPLER OR APPROVED EQUAL. CONTRACTOR TO POT HOLE TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING PIPE PRIOR TO CONSTRUCTION.
- 2 INSTALL NEW STORM PIPE. SEE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
- 3 INSTALL NEW 4" PERFORATED STORM PIPE MATCHING ROAD GRADE TO NEAREST DOWN GRADIENT CATCH BASIN. SEE PLAN BELOW AND TYPICAL ROAD SECTION FOR ADDITIONAL INFORMATION.
- 4 INSTALL WSDOT TYPE 1L CATCH BASIN WITH COMBINATION INLET. PROVIDE 1-FOOT SUMP (MIN).
- 5 INSTALL WSDOT TYPE 1 CATCH BASIN WITH RECTANGULAR FRAME AND INLET. SET RIM ELEVATION 6" ABOVE SWALE BOTTOM. PROVIDE 1-FOOT SUMP (MIN).
- 6 INSTALL STANDARD MANHOLE TYPE B, DEEP-RAISED INVERT. 54" I.D. WITH 2-FOOT SUMP. SEE ISPWC SD-614A FOR ADDITIONAL INFORMATION.
- 7 INSTALL STANDARD CONCRETE CATCH MANHOLE WITH 2-FOOT SUMP. SEE ISPWC SD-611 FOR ADDITIONAL INFORMATION.
- 8 INSTALL 6" STORM DRAIN LATERAL INLET. SEE DETAIL ON SHEET ____.
- 9 INSTALL RIP RAP APRON. SEE DETAIL ____.
- 10 INSTALL SHALLOW MANHOLE TYPE 1 - RAISED INVERT. SEE ISPWC SD-615A FOR ADDITIONAL INFORMATION.



MADISON AVE PROFILE - STA. 0+00 TO END
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 20'



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 Ponderay, ID 83852
 (208) 635-5825

CEDAR STREET RECONSTRUCTION
 CITY OF SANDPOINT, ID
 MADISON AVENUE
 STORMWATER
 STA. 0+00 TO END

NOT APPROVED
PRELIMINARY
 FOR CONSTRUCTION

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1" SCALE: (11X17 ONLY)

DWG:
 PROJECT NO: M24005
 DRAWN BY: DJJ
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C3.14

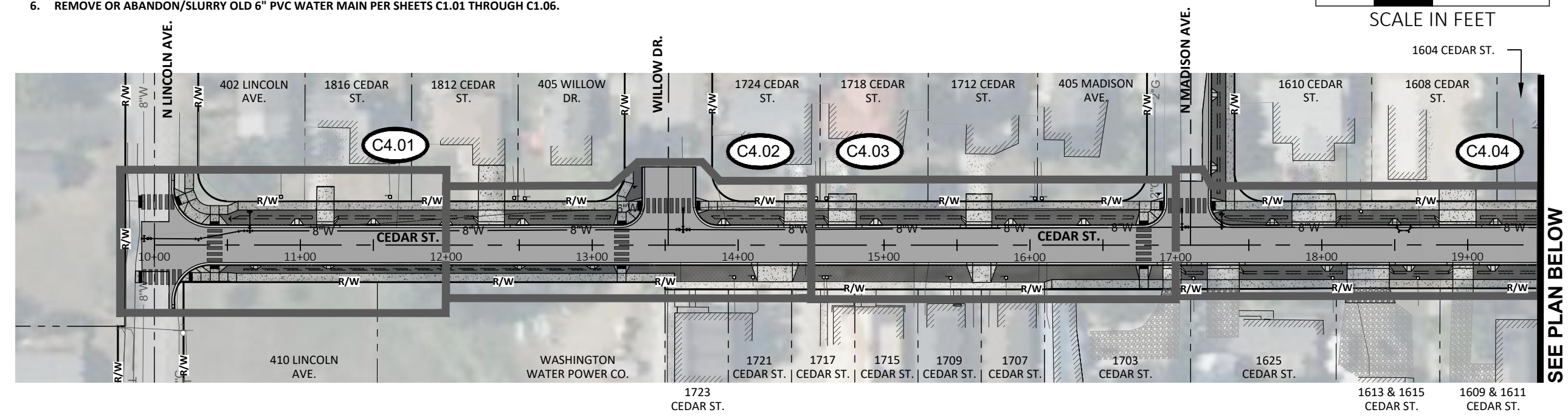
DRAWING: 73
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Plot Date: 1/3/2025 9:37 AM Plotted By: Destiny Hilliard
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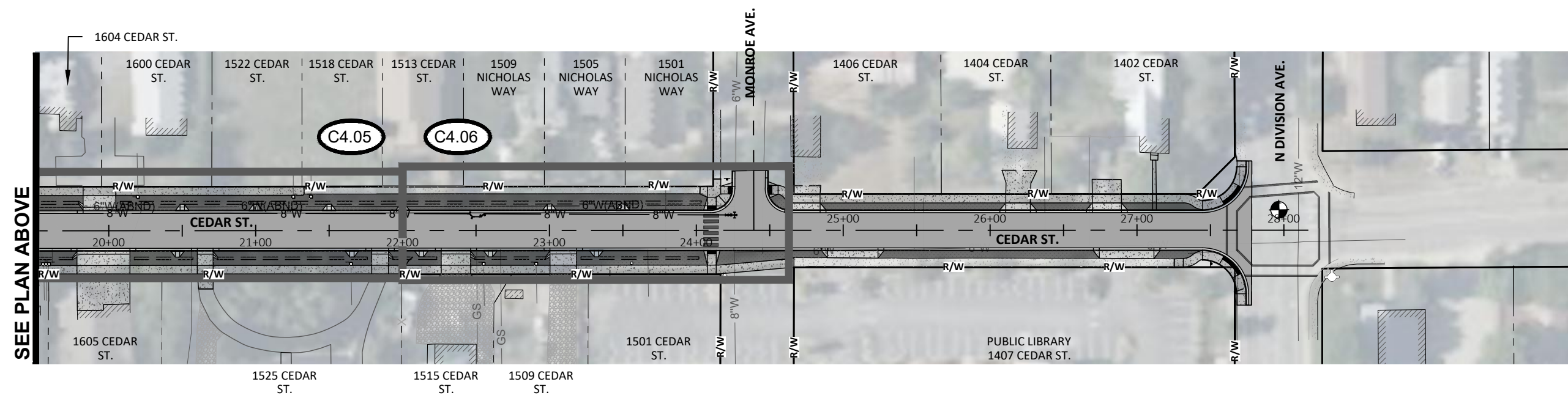


WATER MAIN CONSTRUCTION SEQUENCING:

1. AT LINCOLN AND MONROE HOT TAP EXISTING 6" PVC WATER MAINS AND INSTALL NEW 8" C-900 PVC WATER MAIN PER SHEETS C4.01 THROUGH C4.06.
2. INSTALL 1" ROMAC STAINLESS STEEL DOUBLE STRAP SADDLE TAPS (2025) ON NEW 8" WATER MAIN AND ASSOCIATED NEW 1" HDPE WATER SERVICES CONFORMING TO AWWA C901, 250 PSI TO NEW WATER METER ASSEMBLIES PER SHEETS C4.01 THROUGH C4.06.
3. PRESSURE TEST, FLUSH, AND DISINFECT ALL NEW WATER MAINS AND APPURTENANCES PER ISPWC REQUIREMENTS.
4. UPON ACCEPTANCE OF NEW WATER MAIN, CONNECT EXISTING WATER SERVICES TO NEW WATER METERS.
5. ISOLATE WATER MAINS AT WILLOW AND MADISON INTERSECTIONS TO ALLOW FOR CUTTING EXISTING 6" PVC WATER MAINS. CONNECT TO NEW 8" C900 WATER MAIN. PRESSURE TEST, FLUSH, AND DISINFECT PER ISPWC REQUIREMENTS.
6. REMOVE OR ABANDON/SLURRY OLD 6" PVC WATER MAIN PER SHEETS C1.01 THROUGH C1.06.



SEE PLAN BELOW



SEE PLAN ABOVE

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

WATER MAIN OVERALL PLAN

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1"
SCALE: (11X17 ONLY)

DWG: M24005 - Water Overall.dwg
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
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C4.00

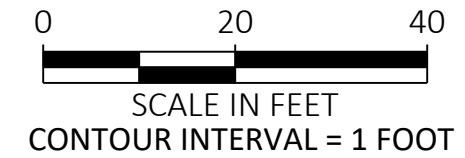
DRAWING: 74
SHEET: --- OF XX

Plot Date: 1/3/2025 9:37 AM, Plotted By: Destiny Hilliard
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CONSTRUCTION NOTES:

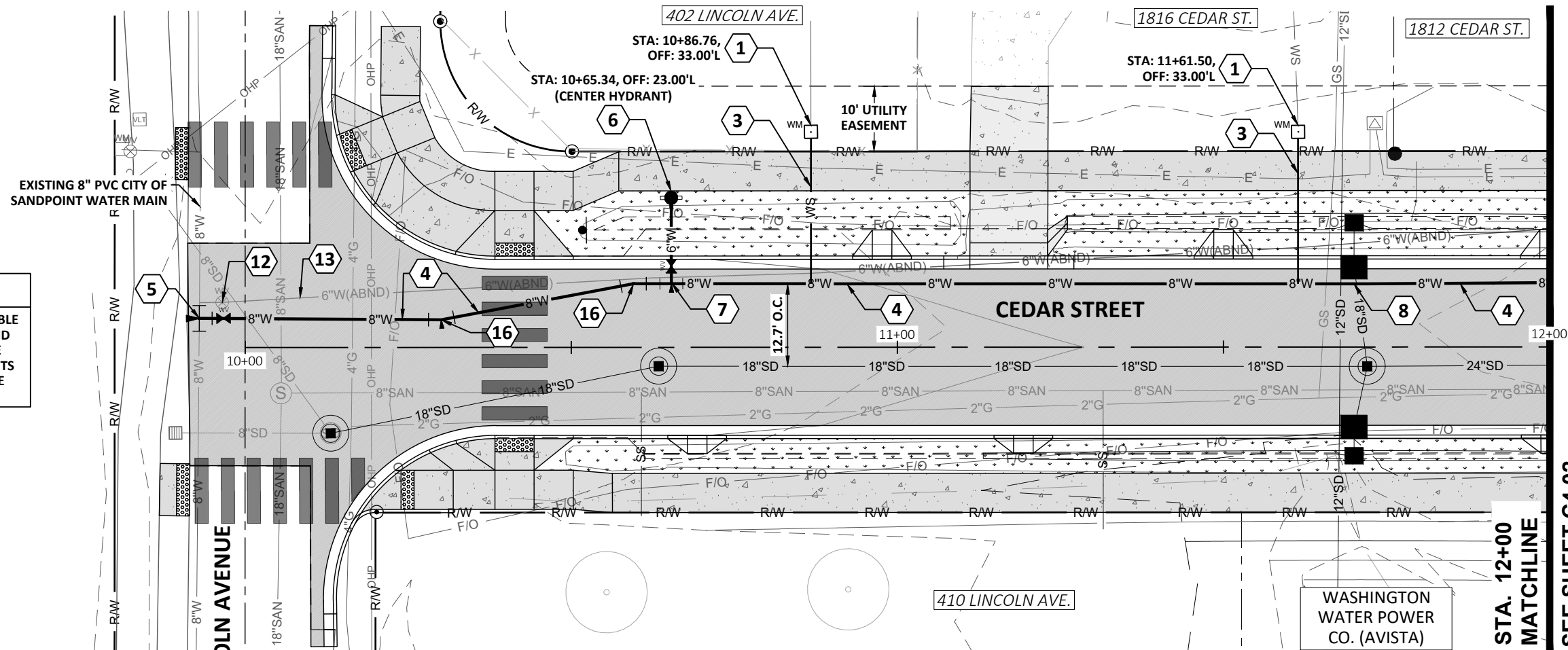
- 1** REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3** INSTALL NEW 1" HDPE WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4** INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 5** CONNECT TO EXISTING 8" PVC WATER MAIN. STA: 9+93, 4.47'L.
- 6** HOT TAP EXISTING 8" PVC WATER MAIN WITH ROMAC SST TAPPING SLEEVE. INSTALL 8" GATE VALVE AND THRUST BLOCK. CONTRACTOR TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
- 7** INSTALL FIRE HYDRANT ASSEMBLY IN ACCORDANCE WITH DETAIL __ ON SHEET __.
- 8** 8" PVC WATER MAIN GRADE BREAK. STA: 11+70.01, 9.69'L.
- 12** CUT AND CAP EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R6.
- 13** REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R5.
- 16** INSTALL 11.25-DEGREE FITTING. RESTRAIN ALL JOINTS WITHIN 3 FEET OF FITTING IN LIEU OF THRUST BLOCKING. STA: 10+30.08, 4.25'L
STA: 10+59.54, 9.76'L



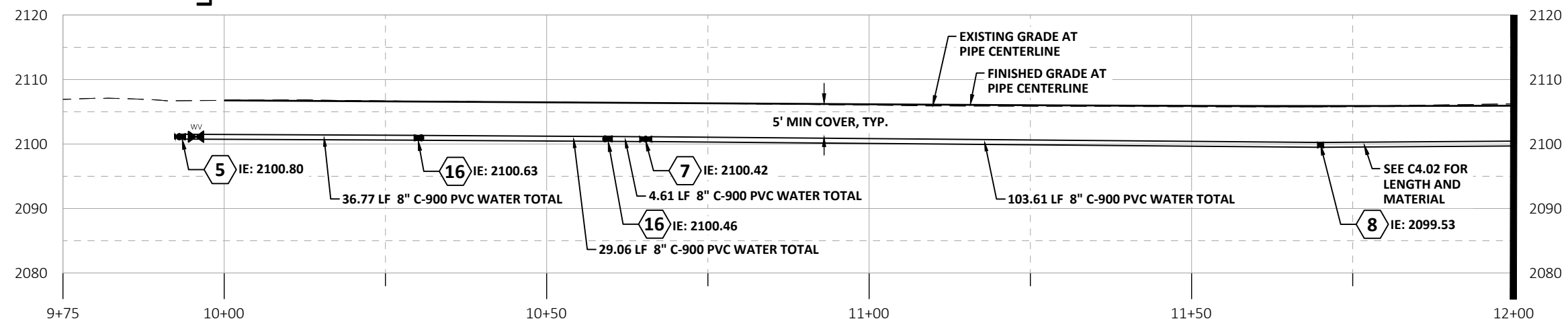
CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
WATER MAIN P&P
STA. 9+75 TO STA. 12+00

NOTE:
CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPMC SD-407.



STA. 12+00
MATCHLINE
SEE SHEET C4.02



CEDAR ST PROFILE - STA. 9+75 TO STA. 12+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

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1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
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CHECKED BY: DMT
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C4.01

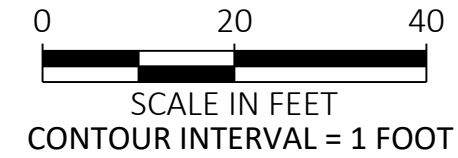
DRAWING: SHEET: --- OF XX 75



CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3 INSTALL NEW WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4 INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 8 8" PVC WATER MAIN GRADE BREAK. STA: 13+41.88, 10.65'L
STA: 14+01, 10.43'L
- 9 INSTALL 8"X6" REDUCER. CONNECT TO EXISTING 6" PVC WATER MAIN USING ALPHA RESTRAINED COUPLING. STA: 13+62.30, 25.47'L
- 10 INSTALL 8"X8"X8" D.I. TEE WITH THRUST BLOCK AND (2) GATE VALVES (E, W). CAP NORTH LEG OF TEE TEMPORARILY TO ALLOW FOR TESTING OF NEW CEDAR STREET WATER MAIN PRIOR TO CONNECTION. STA: 13+62.30, 10.60'L
- 13 REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R5.
- 15 UPON INSTALLATION, TESTING, AND ACCEPTANCE OF NEW 8" CEDAR STREET WATER MAIN CLOSE EXISTING 6" GATE VALVE TO ALLOW FOR CUTTING THE EXISTING 6" PVC WATER MAIN AND CONNECTION TO NEW PIPE.

NOTE:
CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPPWC SD-407.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
WATER MAIN P&P
STA. 12+00 TO STA. 14+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

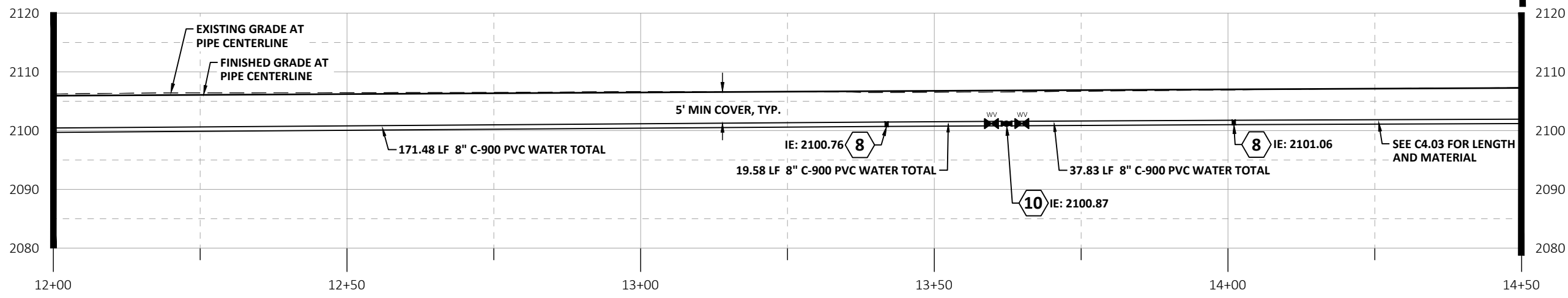
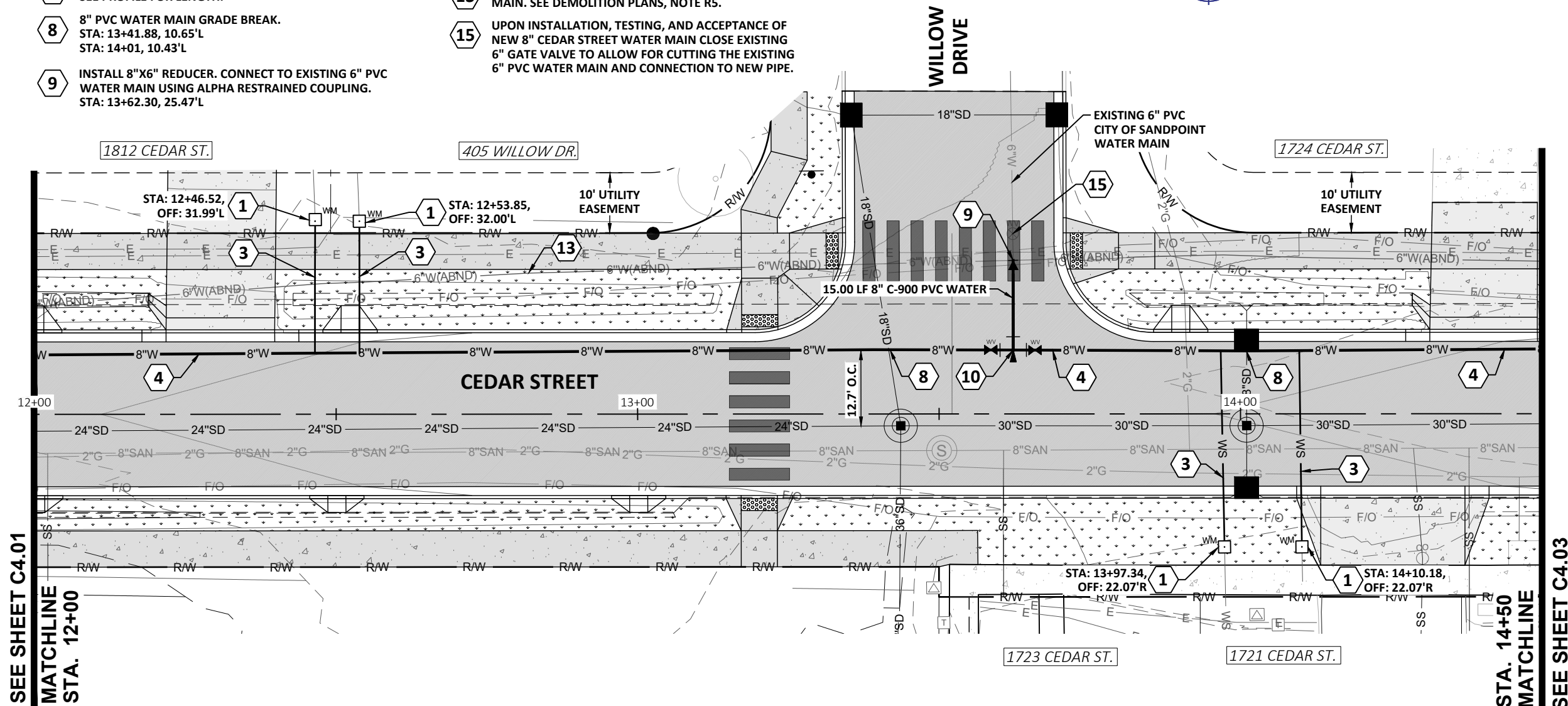
1"
SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
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C4.02

DRAWING: 76
SHEET: --- OF XX



CEDAR ST PROFILE - STA. 12+00 TO STA. 14+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:37 AM. Plotted By: Destiny Hilliard
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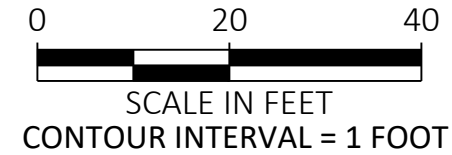


CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3 INSTALL NEW WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4 INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 8 8" PVC WATER MAIN GRADE BREAK. STA: 16+75.50, 12.13'L
- 13 REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R5.

NOTE:

CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPWC SD-407.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
WATER MAIN P&P
STA. 14+50 TO STA. 17+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

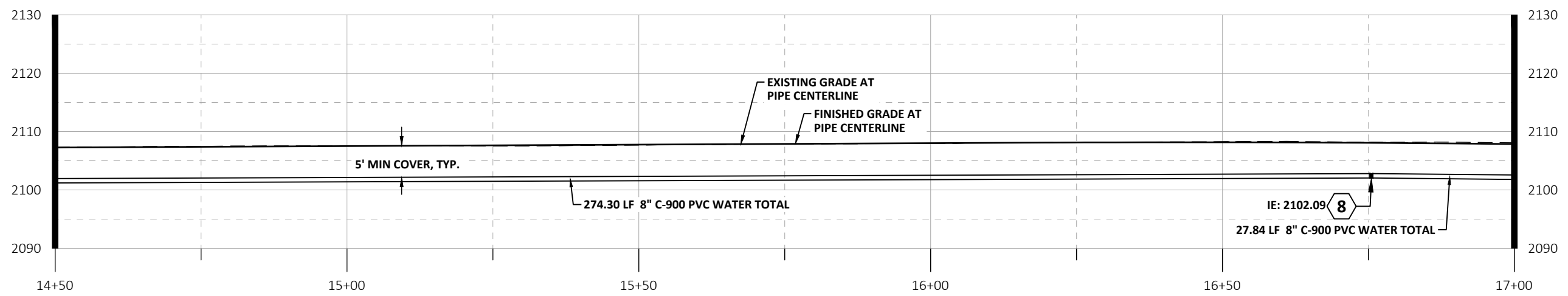
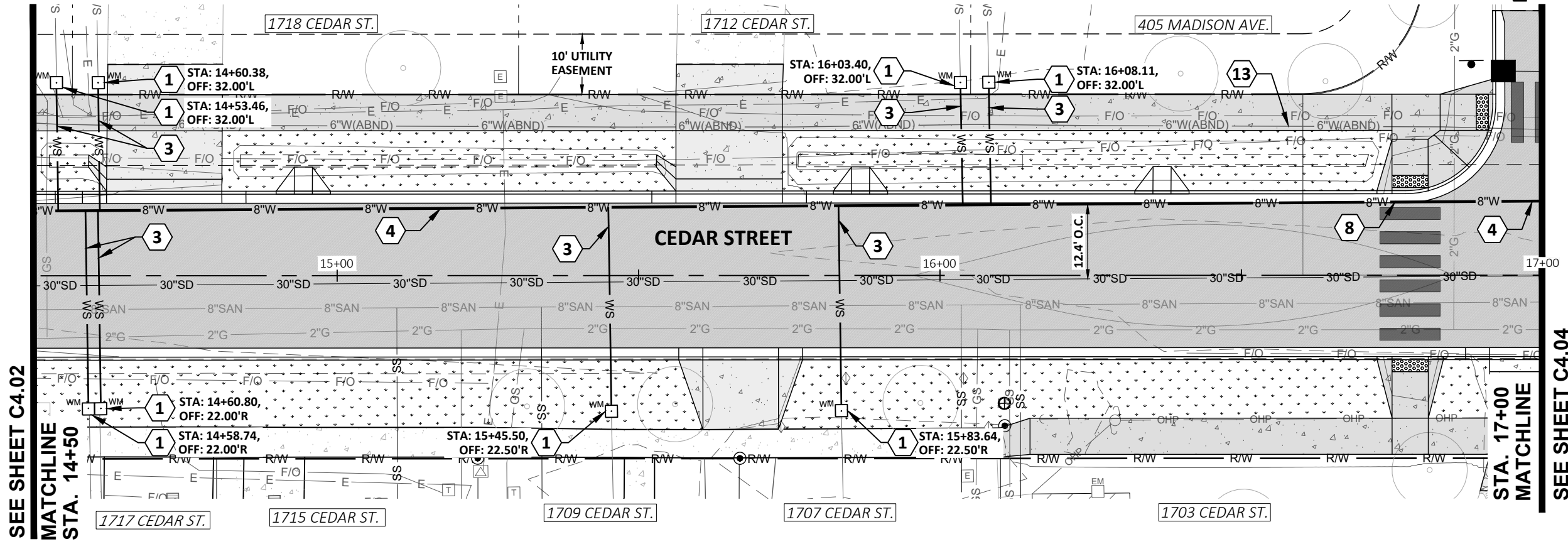
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SCALE: (11X17 ONLY)

DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
CHECKED BY: DMT
DATE: DECEMBER 2024

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C4.03

DRAWING: 77
SHEET: --- OF XX



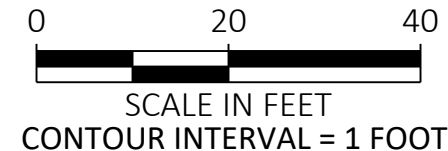
CEDAR ST PROFILE - STA. 14+50 TO STA. 17+00
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VERTICAL SCALE: 1" = 20'

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Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - WATER PPS.DWG



CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3 INSTALL NEW WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4 INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 6 INSTALL FIRE HYDRANT ASSEMBLY PER ISPWC SD-404.
- 7 INSTALL 8"X8"X6" D.I. TEE WITH THRUST BLOCK STA: 17+31.46, 12.36'L
- 9 INSTALL 8"X6" REDUCER. CONNECT TO EXISTING 6" PVC WATER MAIN USING ALPHA RESTRAINED COUPLING. STA: 17+04.11, 25.03'L
- 10 INSTALL 8"X8"X8" D.I. TEE WITH THRUST BLOCK AND (2) GATE VALVES (E, W). CAP NORTH LEG OF TEE TEMPORARILY TO ALLOW FOR TESTING OF NEW 8" CEDAR STREET WATER MAIN PRIOR TO CONNECTION. STA: 17+04.19, 12.31'L
- 13 REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R5.
- 15 UPON INSTALLATION, TESTING, AND ACCEPTANCE OF NEW 8" CEDAR STREET WATER MAIN CLOSE EXISTING 6" GATE VALVE TO ALLOW FOR CUTTING THE EXISTING 6" PVC WATER MAIN AND CONNECTION TO NEW PIPE.
- 17 INSTALL 45-DEGREE FITTING. STA: 18+51.27, 11.92'L
STA: 18+53.26, 9.91'L
STA: 18+59.19, 9.90'L
STA: 18+61.19, 11.90'L



NOTE:

CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPWC SD-407.



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CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
WATER MAIN P&P
STA. 17+00 TO STA. 19+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

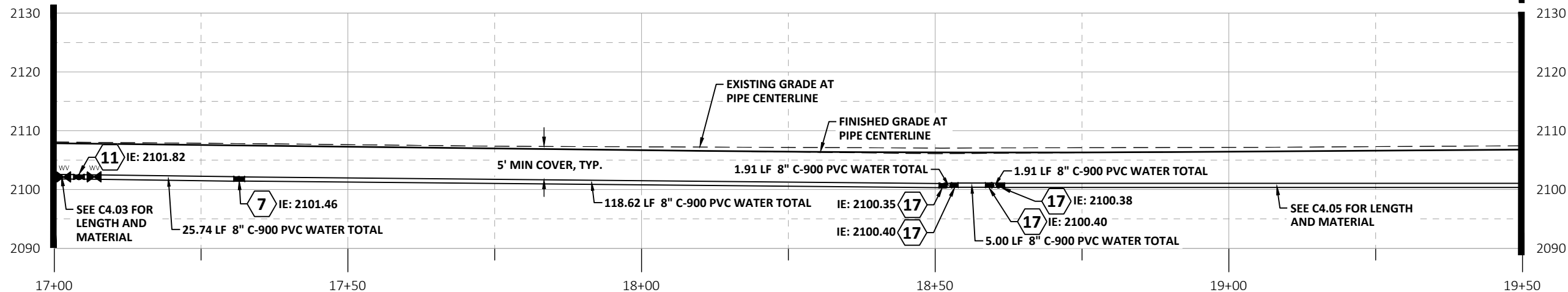
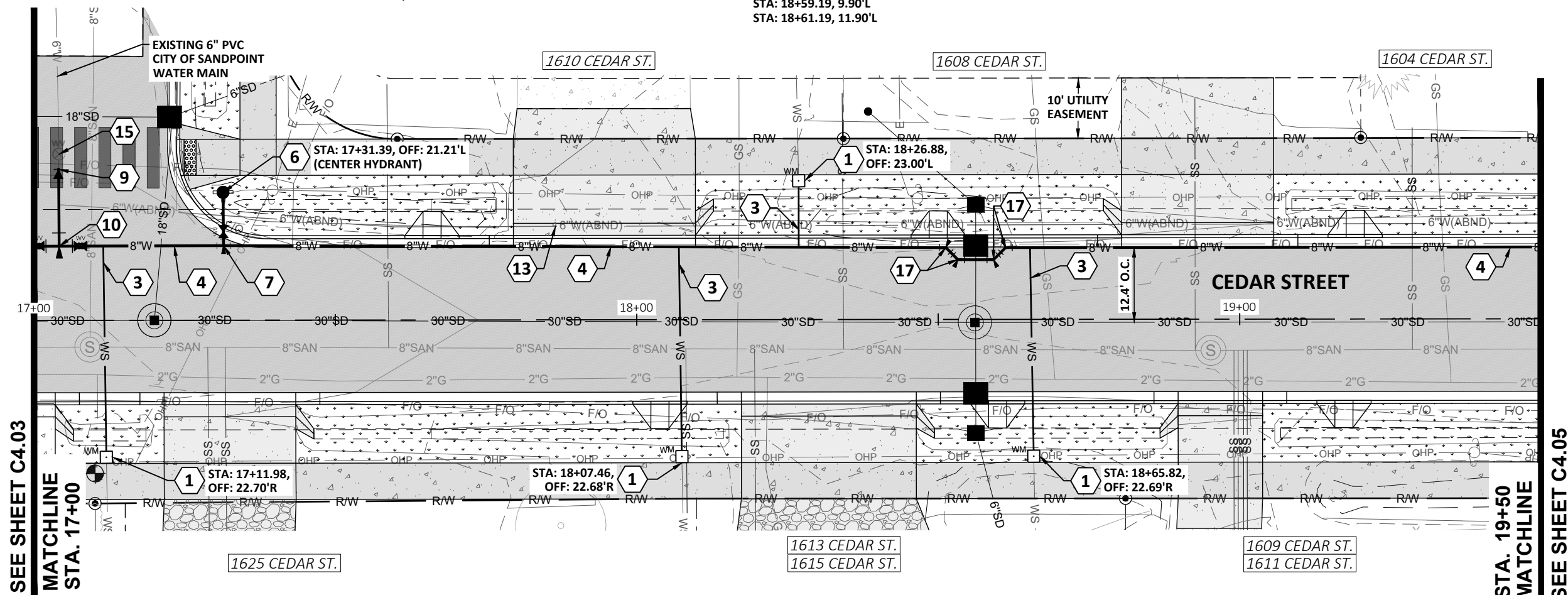
1" SCALE: (11X17 ONLY)

DWG: PROJECT NO: M24005
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DATE: DECEMBER 2024

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C4.04

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CEDAR ST PROFILE - STA. 17+00 TO STA. 19+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

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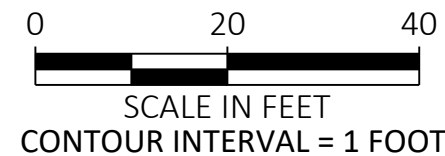


CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3 INSTALL NEW WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4 INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 13 REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R5.

NOTE:

CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPWC SD-407.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID

CEDAR STREET
WATER MAIN P&P
STA. 19+50 TO STA. 22+00

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

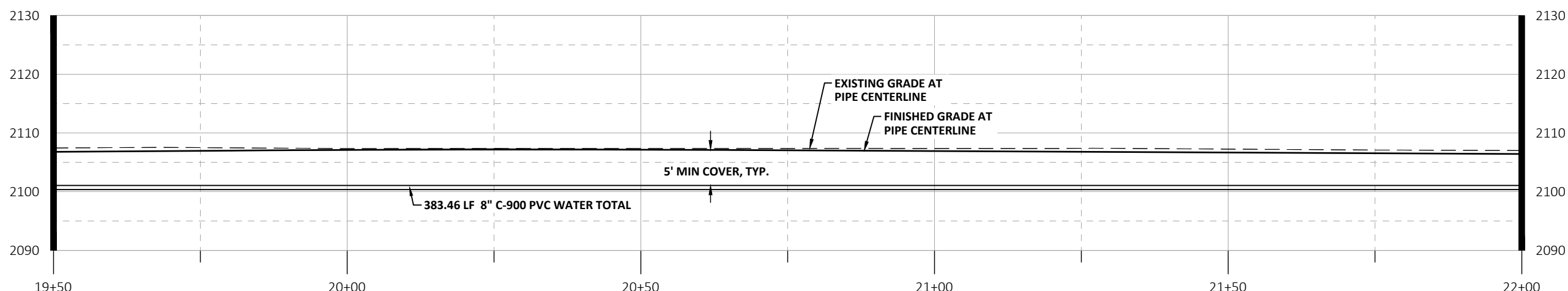
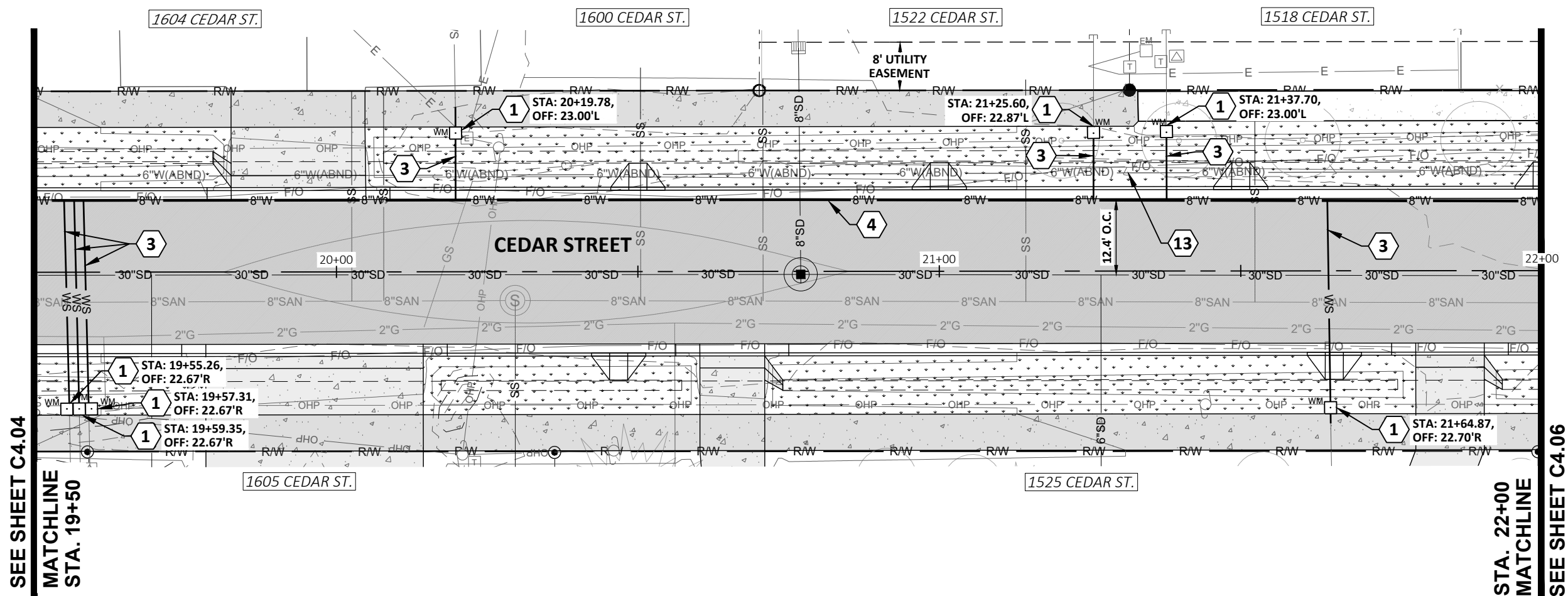
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DWG:
PROJECT NO: M24005
DRAWN BY: DJJ
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C4.05

DRAWING:
SHEET: --- OF XX 79



CEDAR ST PROFILE - STA. 19+50 TO STA. 22+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

SEE SHEET C4.04
MATCHLINE
STA. 19+50

STA. 22+00
MATCHLINE
SEE SHEET C4.06

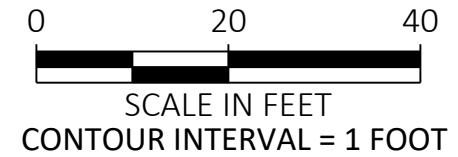
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CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER METER AND INSTALL NEW WATER METER. SEE DEMOLITION PLANS, NOTE R13.
- 3 INSTALL NEW WATER SERVICE LINE BETWEEN NEW WATER METER AND 8" WATER MAIN.
- 4 INSTALL 8" WATER MAIN (C-900). SEE PROFILE FOR LENGTH.
- 13 REMOVE OR ABANDON/SLURRY EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS. NOTE R5.
- 14 CUT AND CAP EXISTING 6" WATER MAIN. SEE DEMOLITION PLANS, NOTE R15.
- 15 CONNECT TO EXISTING 6" PVC WATER MAIN. STA. 24+26.05, 10.46'L. HOT TAP EXISTING 6" PVC WATER MAIN WITH ROMAC SST TAPPING SLEEVE. INSTALL 6" GATE VALVE AND 8"x6" REDUCER. CONTRACTOR TO VERIFY LOCATION, MATERIAL, SIZE AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
- 17 INSTALL 45-DEGREE FITTING. STA: 22+45.57, 11.41'L
STA: 22+47.59, 9.38'L
STA: 22+53.90, 9.76'L
STA: 22+55.51, 11.37'L

NOTE:
CONTRACTOR IS RESPONSIBLE TO MAINTAIN POTABLE AND NON-POTABLE WATER LINE SEPARATION REQUIREMENTS OR SLEEVE IN ACCORDANCE WITH ISPWC SD-407.



CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT, ID
CEDAR STREET
WATER MAIN P&P
STA. 22+00 TO STA. 24+50

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

75% REVIEW DOCUMENTS

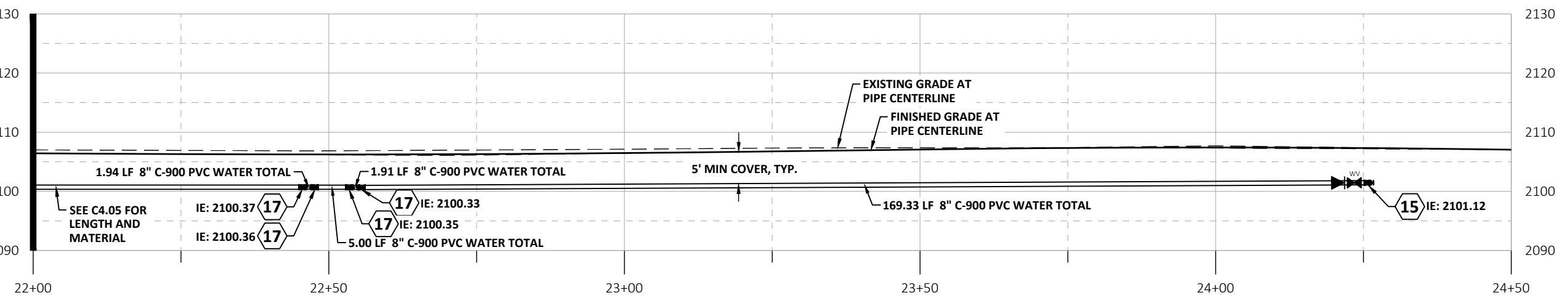
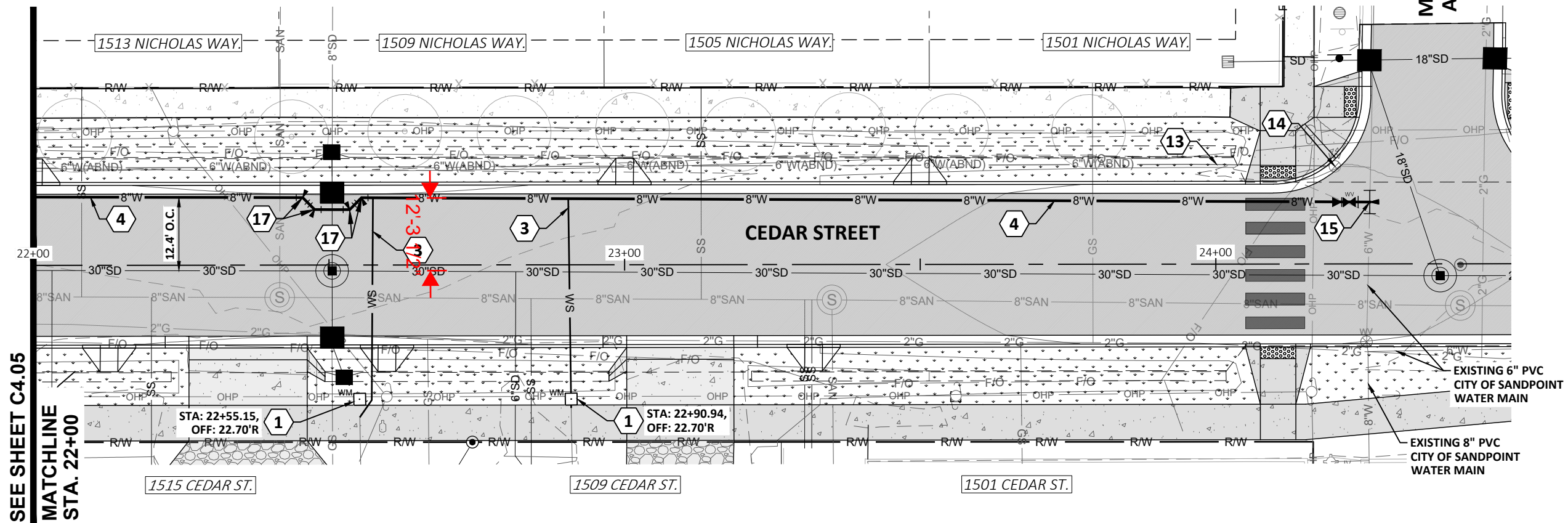
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DWG: PROJECT NO: M24005
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NO. DATE BY DESCRIPTION

C4.06

DRAWING: SHEET: ---- OF XX 80



CEDAR ST PROFILE - STA. 22+00 TO STA. 24+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

Plot Date: 1/3/2025 9:38 AM Plotted By: Destiny Hilliard
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\PLAN SHEETS\M24005 - WATER PPS.DWG



Cedar Street Reconstruction

Public Comments from Open House, November 14, 2024

If you do trees – please do a better job of educating proper care.

Nice job – full sidewalk connectivity – bulbouts – good! Trees – good!

I am in support of the Cedar Street renovation project. I live on Monroe and frequently walk to travers. I never walk on Cedar due to no/few sidewalk & higher speed. I like the green space would like to see trees in the green spaces too

I recommend a 32' paved section (not 24') to provide two 12' travel lanes and one 8' on street parking lane; sidewalk and planting strip along south side only (a sidewalk/planting strip on north side is redundant).

Cedar green ROW & other trees to remain. Rec protection plan be included in contract docs. Boul. Ground cover, consider xeriscape for lawn maintenance long term.

I'm in support of the decision for the street improvements. I would like to see speed limits reduced below those enforced to the east of Division.

Do not want to lose the forest. Would like the sidewalk to meander through. No need for strip. I have existing trees.

Raise crosswalks for safety and traffic calming.

This looks fantastic! I am a local resident with a dog and two children. We walk regularly to the library along Cedar between Lincoln and Division and are very much looking forward to improved pedestrian safety.

I live at XXXX Cedar St right next to the library. I understand you want to compliment the community, but my heart is broken that you are going to cut down my beautiful maple tree in my front yard.

Please evaluate and consider widening the intersection where Monroe Ave meets Cedar Street. Monroe is very narrow and making a right turn onto Monroe Ave going west on Cedar is many times impossible if another car is at the stop sign wanting to turn left onto Cedar from Monroe. If new sidewalks would make it even narrower, it would be a big problem. As it is, it is a problem – making it wider would be ideal.

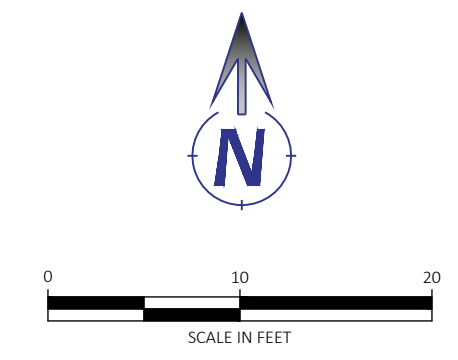
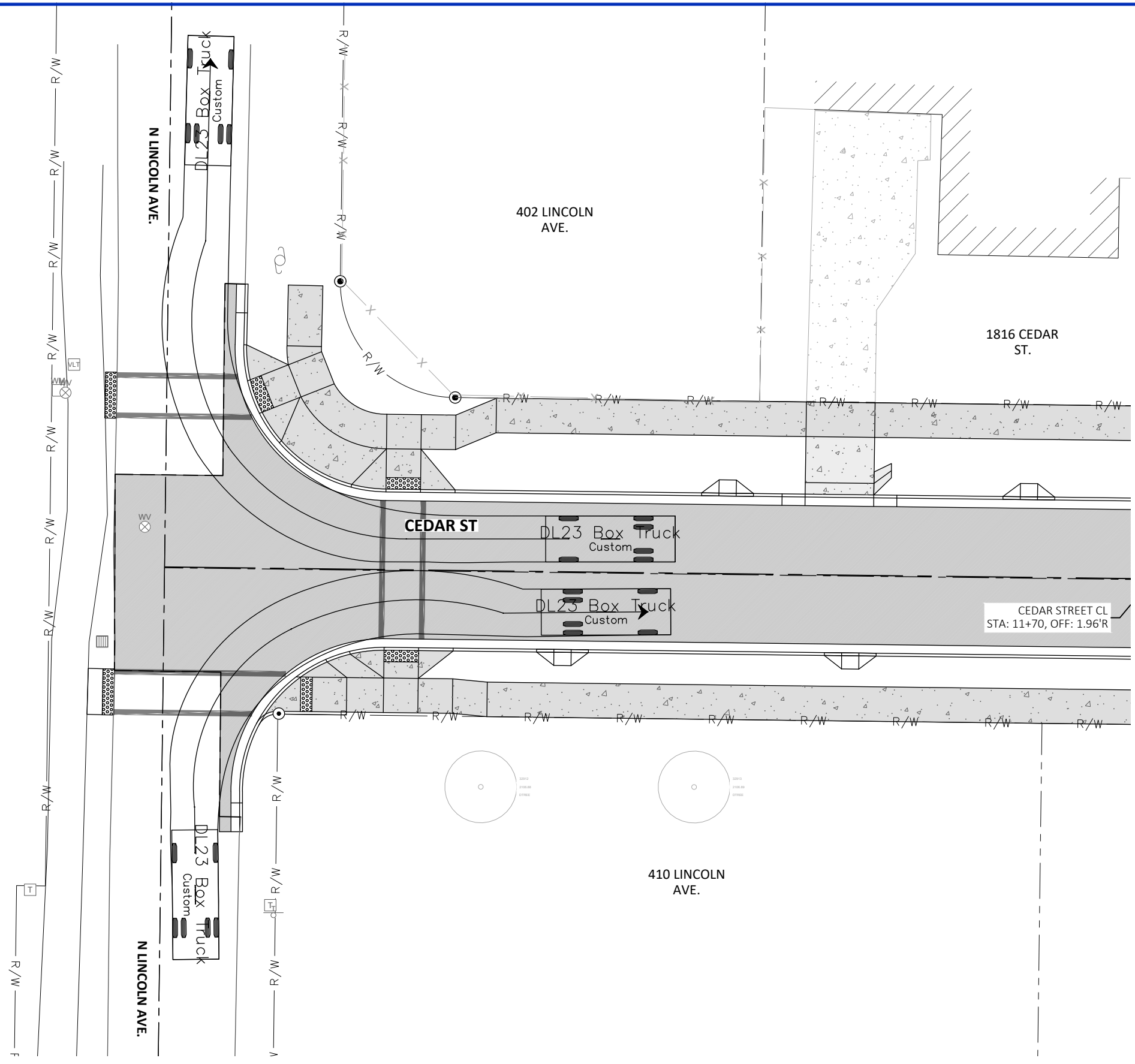
Please keep sidewalk in plan. Very happy this street is getting fixed. It has been bad for several years. Thank you!

Sidewalk to access the library is essential.

I live at XXXX Cedar St and I'm very concerned on the narrowing of the street. Certain times of day this intersection (Cedar & Division) is very congested with traffic and pedestrians. Along with the library traffic (which is a lot) it gets to be a tight squeeze as it is. Also I think making this intersection a 4 way stop is necessary.

I am in support of the Cedar Street renovation project. I live on Monroe and frequently walk to travers. I never walk on Cedar due to no/few sidewalks and high speed. I like the green spaces, would like to see trees in the green spaces too.

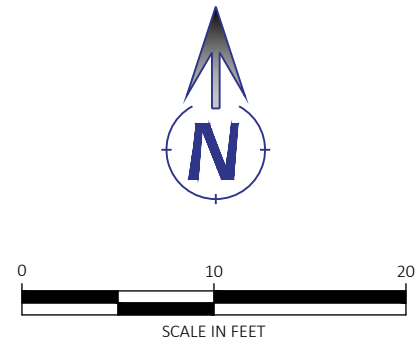
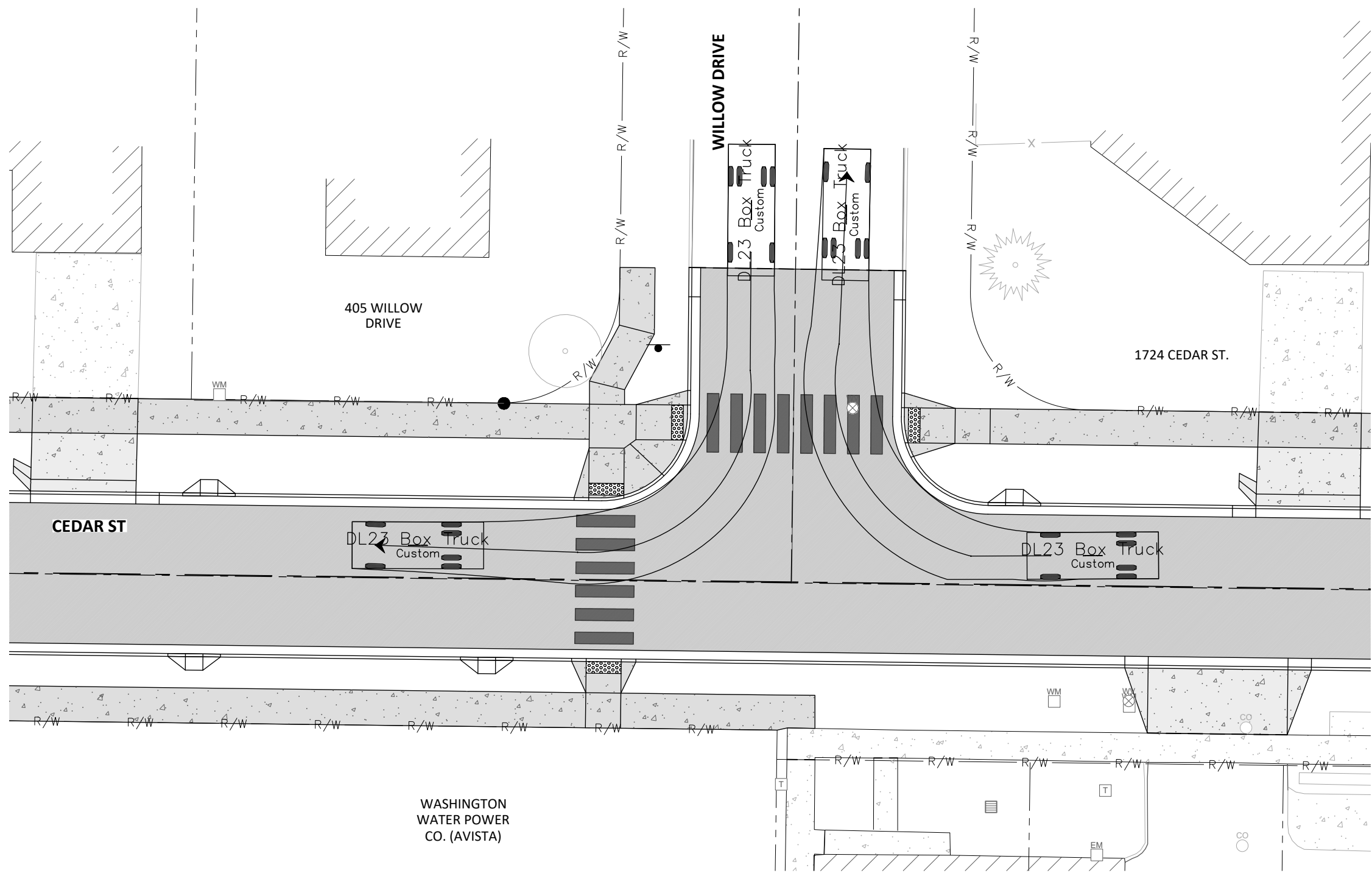
I recommend that a 32' wide paved section be provided in order to accommodate on-street parking. A 24' wide paved section has been designed which will not accommodate on-street parking. One, 8-foot wide parking lane will at least provide some on-street parking. Note that when a vehicle is currently parked on-street, two vehicles cannot pass. (Cedar Street currently averages about 24 feet in width.) Emergency vehicle access is restricted. I further recommend that this additional paved section width be designed in lieu of the redundant north side sidewalk and planting strip. A south side sidewalk and planting strip is already proposed. A north side sidewalk and planting strip across the street from the proposed south side sidewalk and planting strip is not necessary, is impractical and is not as critical as is a wider paved section to accommodate some on-street parking.



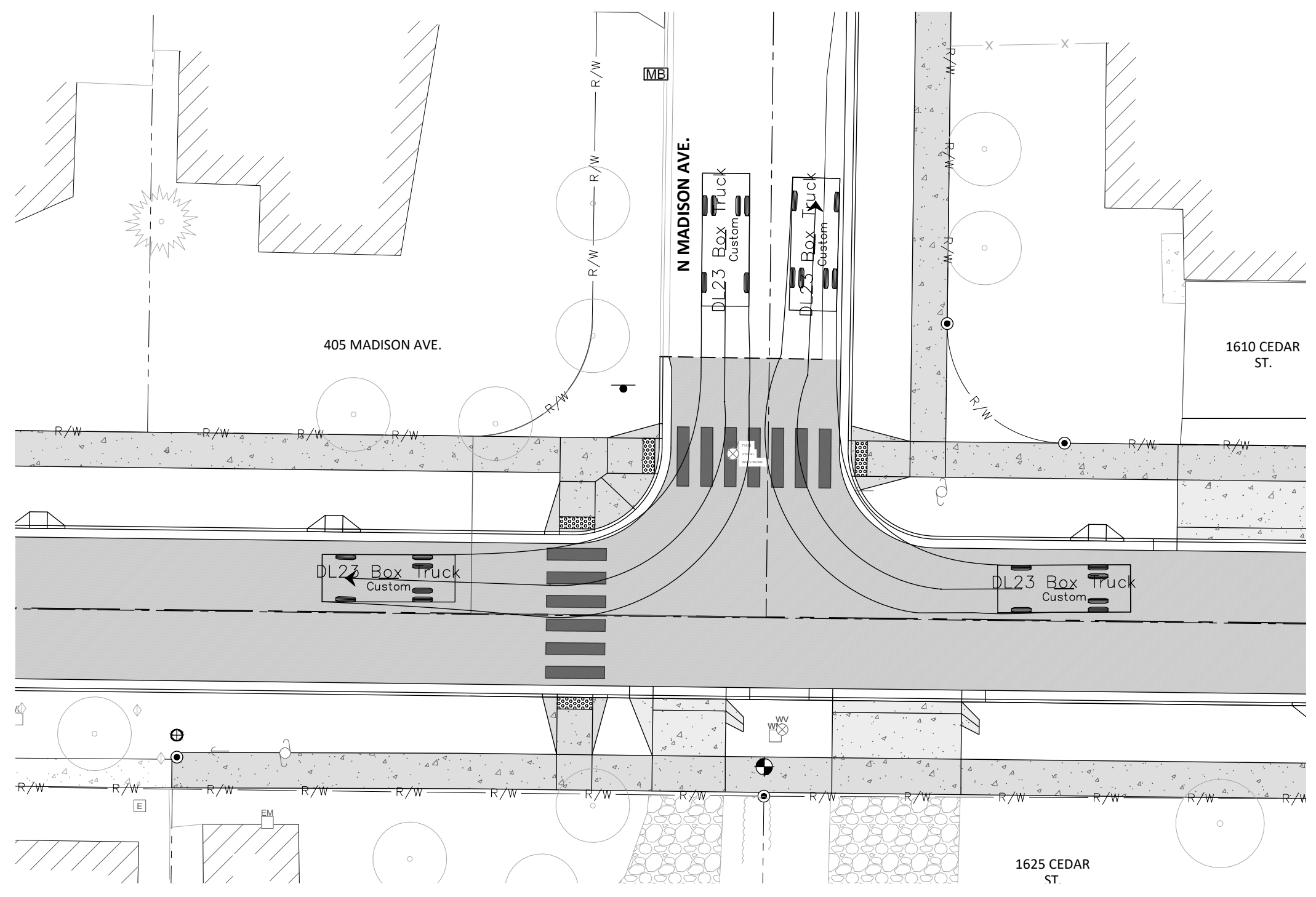
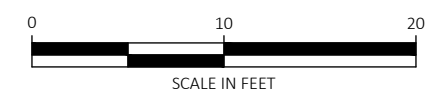
476864 US-95 Ste C,
Ponderay, ID 83852
(208) 635-5825

DL-23 BOX TRUCK AUTO TURN MOVEMENTS
CEDAR STREET AND LINCOLN AVENUE
OCTOBER 2024
PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 10/29/2024 12:50 PM. Plotted By: Dylan Jones
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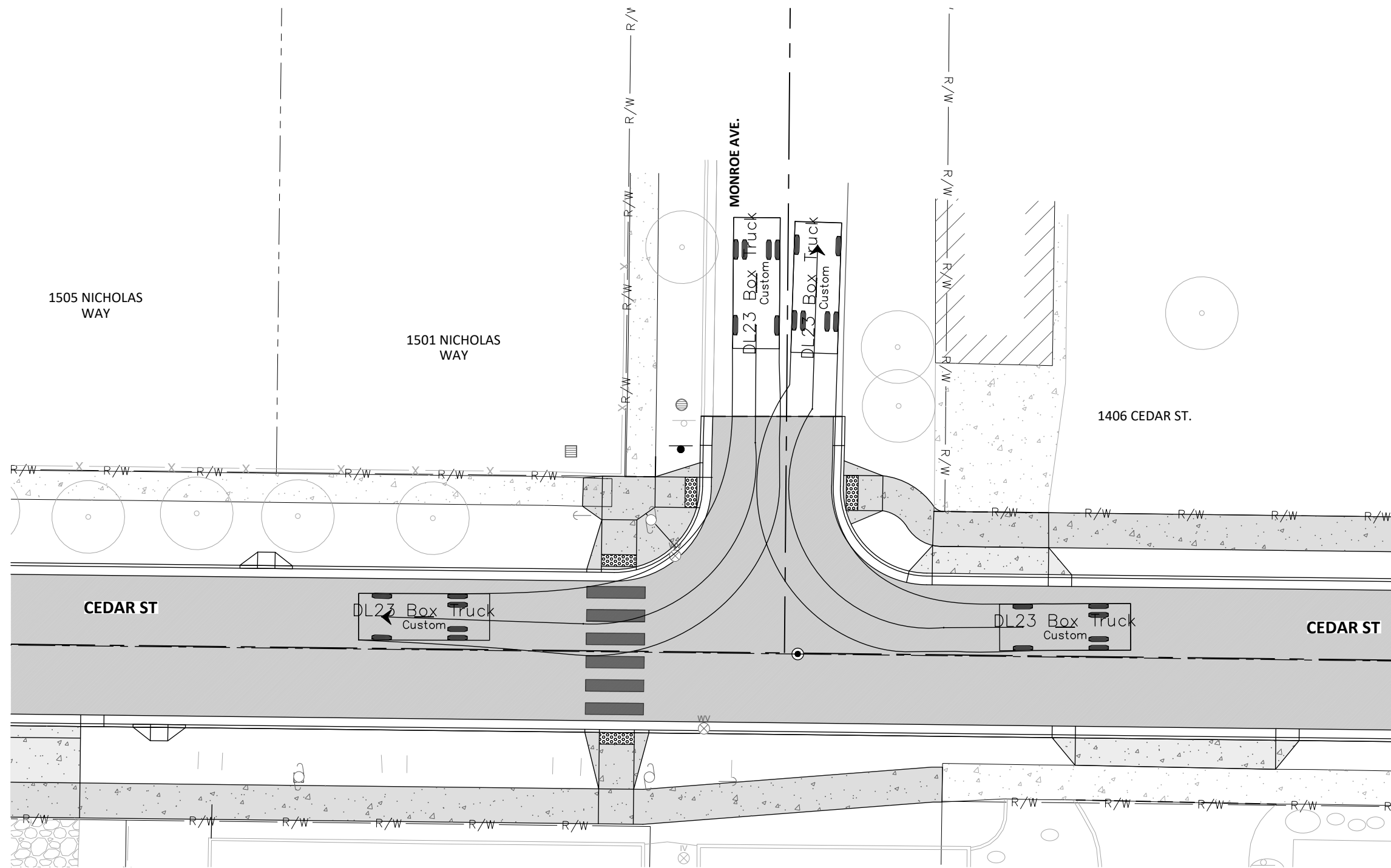
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DL-23 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND MADISON AVENUE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

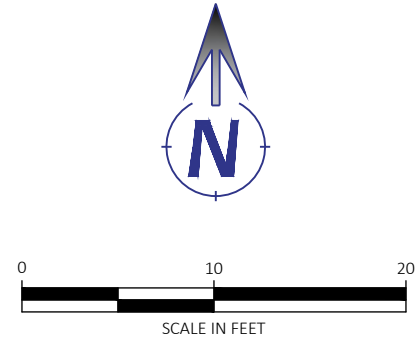
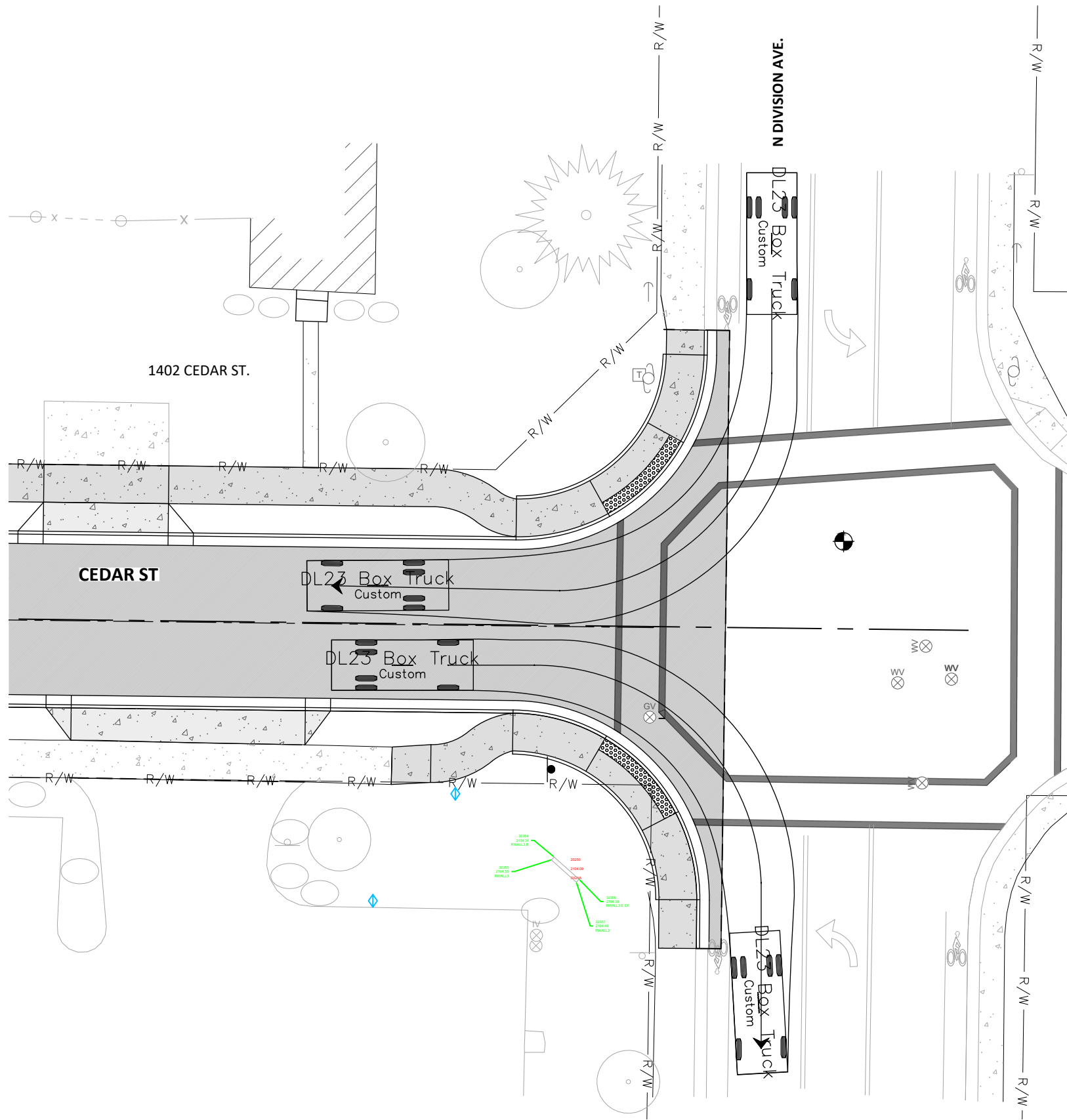
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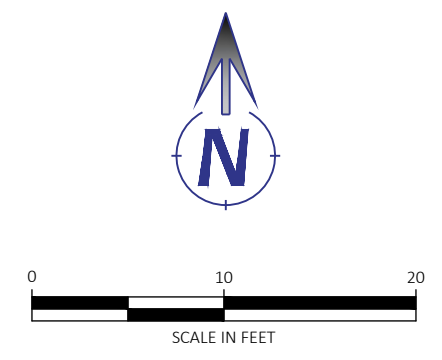
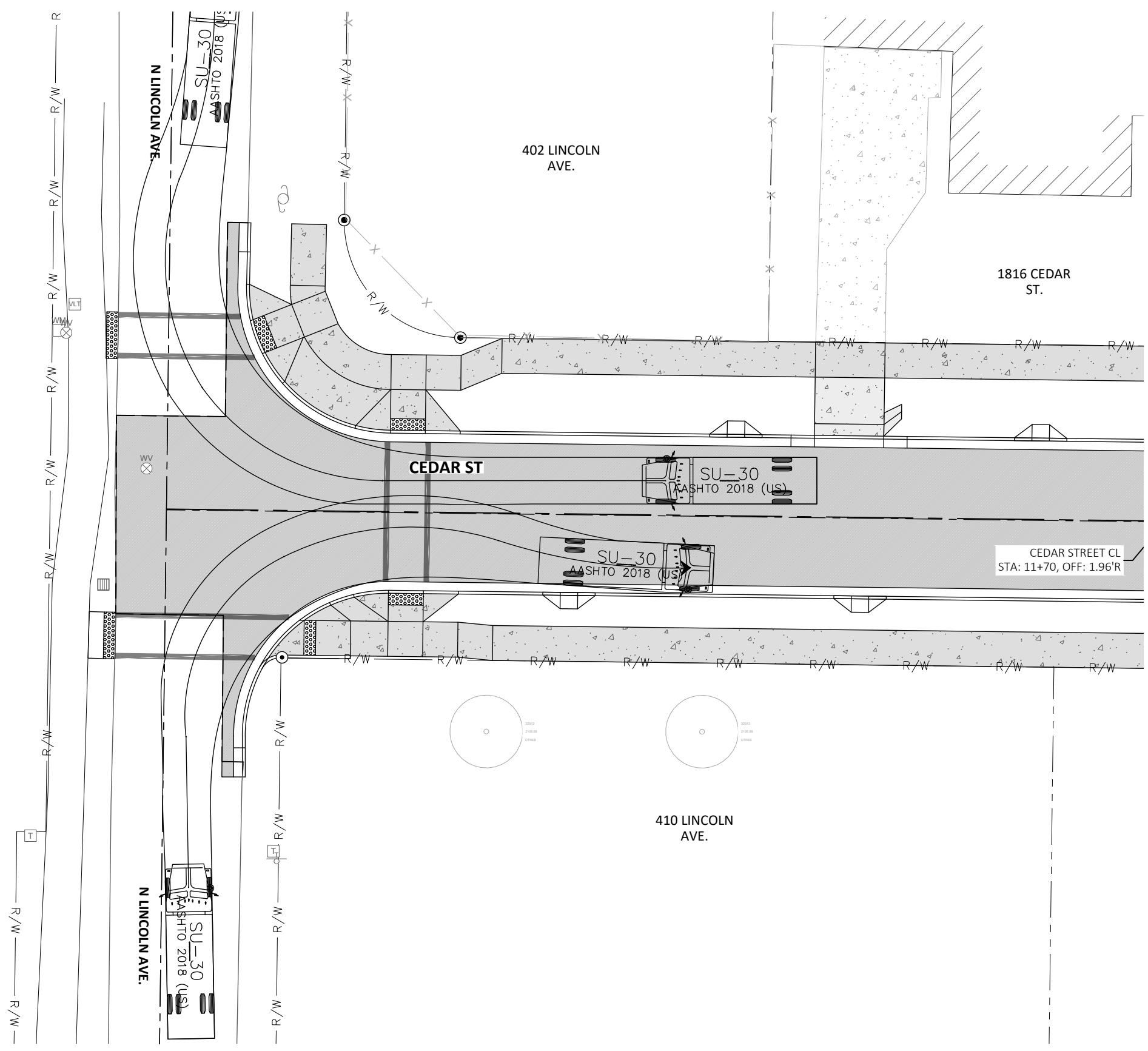


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 Ponderay, ID 83852
 (208) 635-5825

DL-23 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND MONROE AVENUE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

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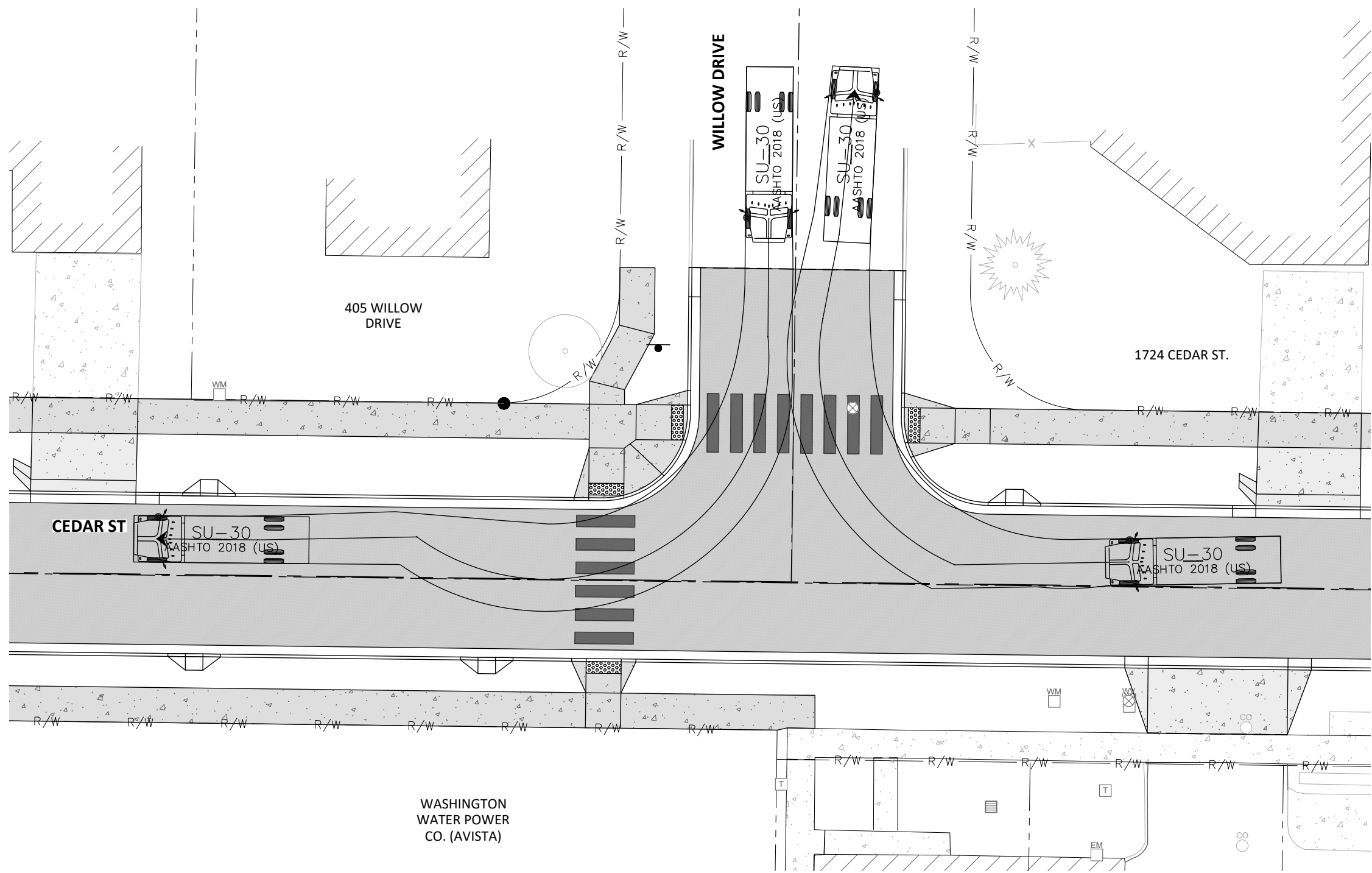




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 Ponderay, ID 83852
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SU-30 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND LINCOLN AVENUE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

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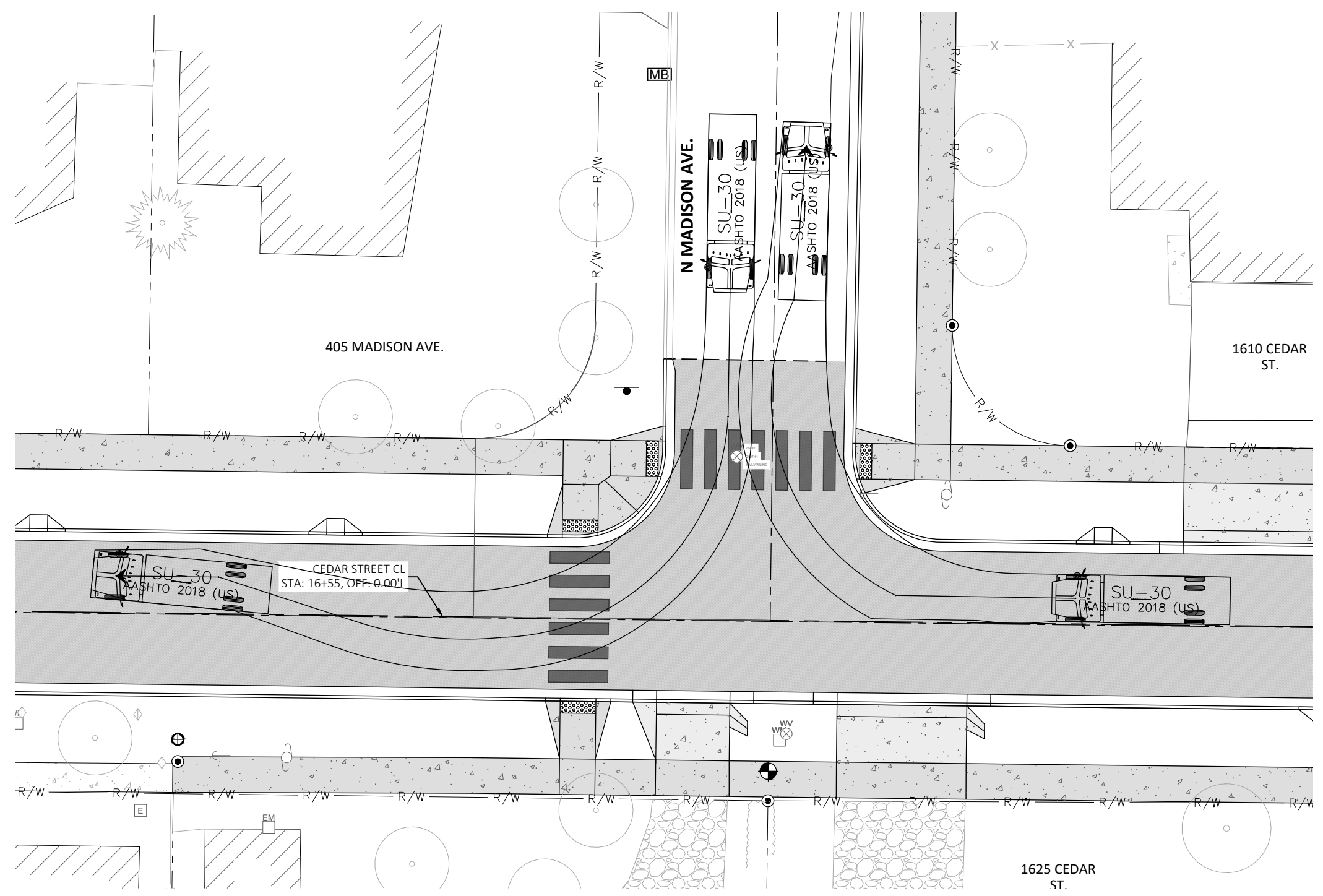
WASHINGTON WATER POWER CO. (AVISTA)



476864 US-95 Ste C,
 Ponderay, ID 83852
 (208) 635-5825

SU-30 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND WILLOW DRIVE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

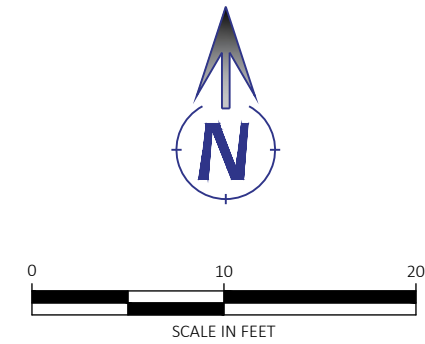
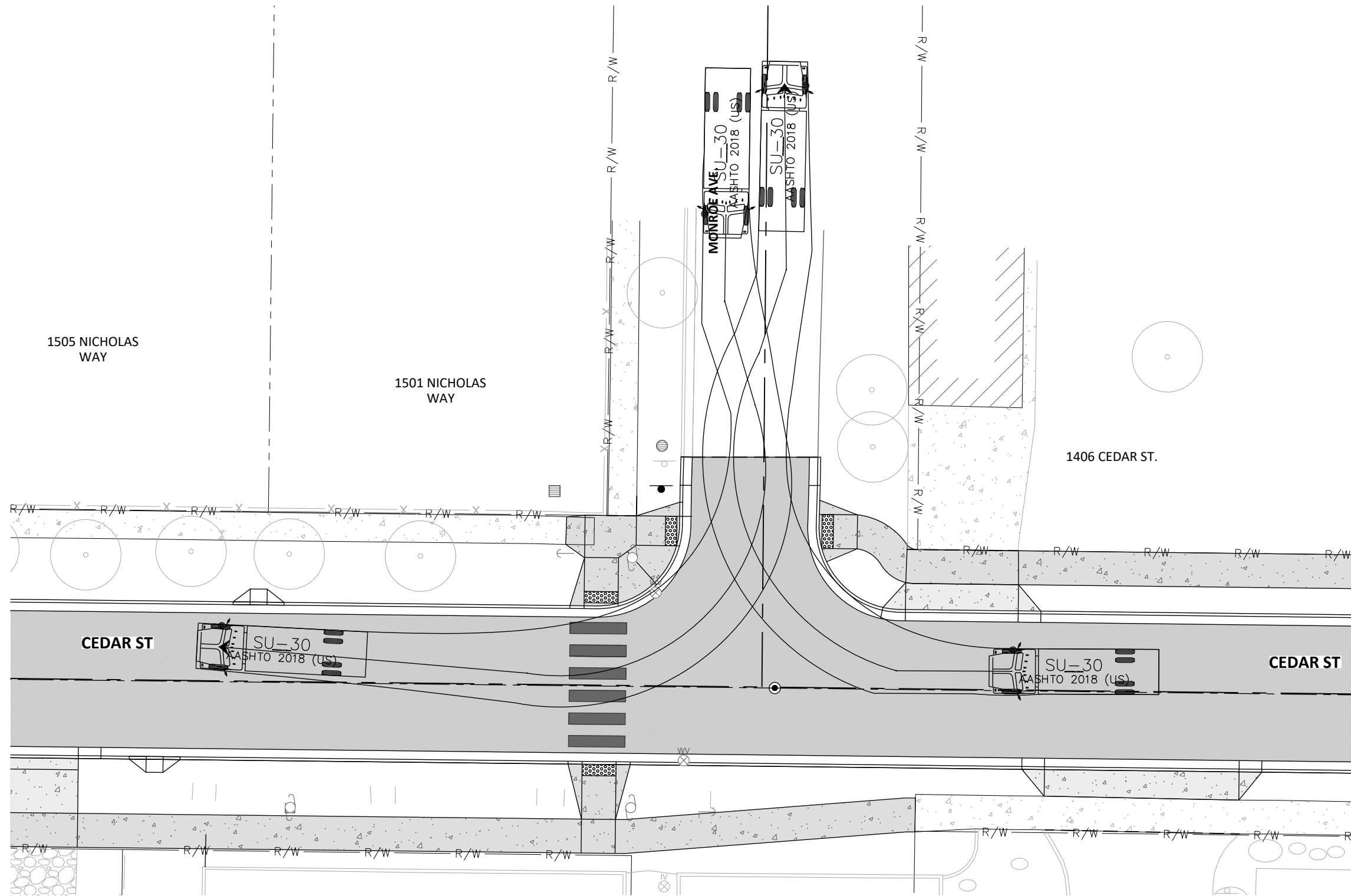
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 (208) 635-5825

SU-30 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND MADISON AVENUE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

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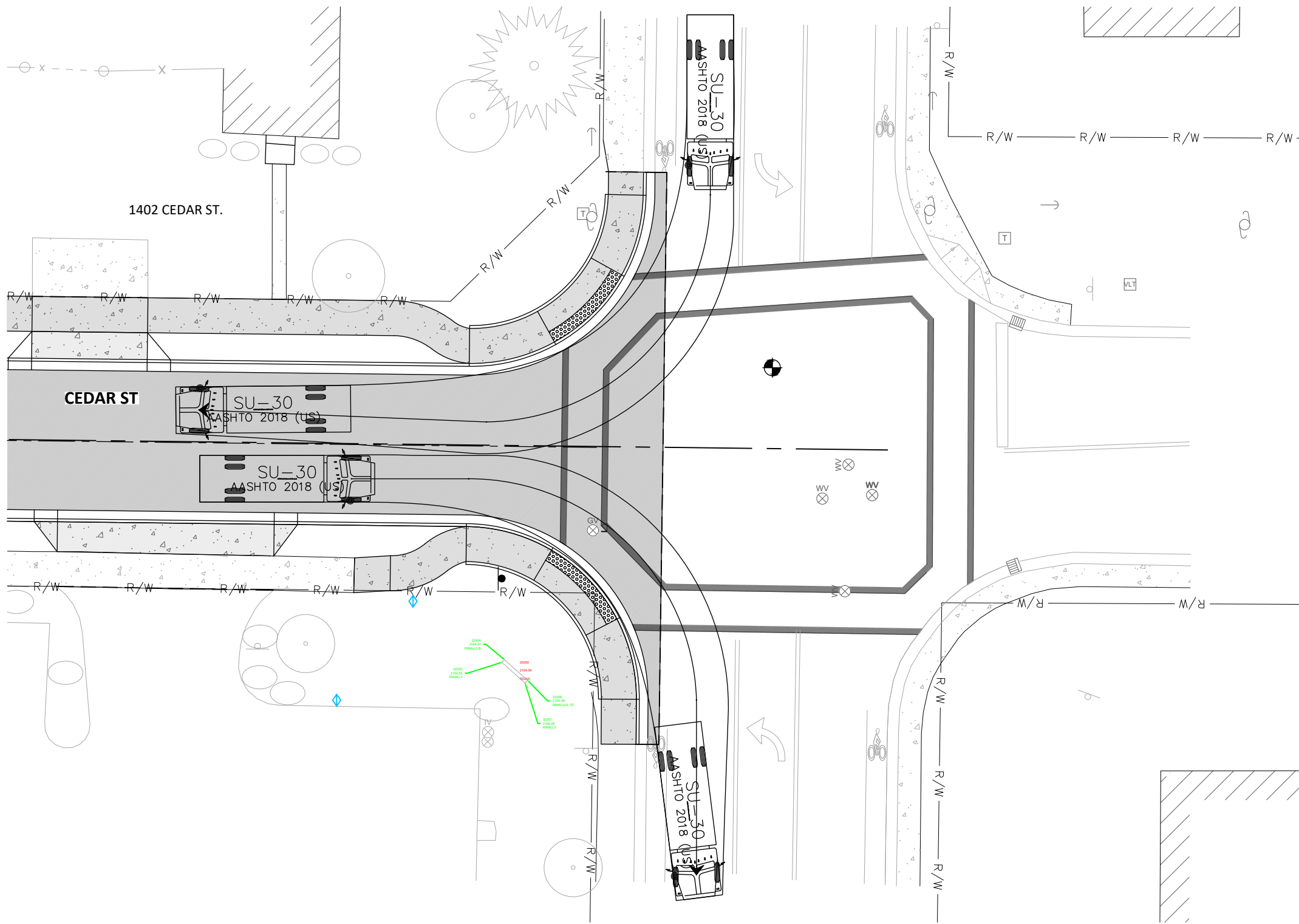


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47664 US-95 Ste C,
 47664 US-95 Ste C,
 Pocatello, ID 83252
 (208) 635-5825

SU-30 BOX TRUCK AUTO TURN MOVEMENTS
 CEDAR STREET AND MONROE AVENUE
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION



476864 US-95 Ste C,
 Ponderay, ID 83852
 (208) 635-5825

SU-30 BOX TRUCK AUTO TURN MOVEMENTS
CEDAR STREET AND DIVISION STREET
 OCTOBER 2024
 PRELIMINARY - NOT FOR CONSTRUCTION

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Stormwater Report Cedar Street Reconstruction



City of Sandpoint
1123 Lake Street
Sandpoint, ID 83864

Prepared by:



476864 Highway 95, Suite 3
Ponderay, ID 83852

Introduction

The Cedar Street Reconstruction project includes complete reconstruction of Cedar Street from Lincoln Avenue to Division Avenue including:

- curb,
- gutter,
- sidewalk,
- water main replacement, and
- stormwater improvements.

Anticipating future Municipal Separate Storm Sewer System (MS4) requirements, the City desires to provide treatment of roadway stormwater runoff via shallow streetside bioinfiltration swales located between the curb and sidewalk. The swales are designed with low maintenance vegetation and perforated pipe underdrains to allow for bioinfiltration during typical rain events.

Curb cuts will allow runoff to bypass the swales during larger storm events, with gutter flow transmitting stormwater to curb inlet catch basins connecting to a new piped storm main within Cedar Street. Elevated catch basins within swales will connect to the new piped storm main providing another means for stormwater relief during larger storm events. The new storm main will connect to the Pine Street storm drain system which ultimately outfalls to Chuck Slough.

Existing Conditions

Stormwater along this stretch of Cedar Street, west of Monroe Avenue, is primarily transmitted via open ditch flow with catch basins located at road intersections. Cross culverts carry runoff south, through private properties, before conveying runoff to Pine Street storm system.

Stormwater east of Monroe Avenue finds its way to catch basins within the Cedar Street and Division Avenue intersection which flow down Division to Pine Street.

The City desires to minimize flow of stormwater through private property as part of this project. Existing drainage basin maps including existing storm drain system elements are provided in Appendix C. Modeling outputs of the existing system are presented in the following section.

Proposed Conditions

Two alternatives were evaluated for proposed stormwater along Cedar Street. Each alternative will consist of shallow streetside bioinfiltration swales that collect and treat runoff. The swales then convey runoff to a piped storm main along the centerline of Cedar Street. The storm main will route runoff through the Avista property or along Lincoln Avenue as follows:

Alternative 1: Avista Property

- Route stormwater toward Willow Avenue,
- then south through Avista Utilities property,
- outfalling to Pine Street connecting to the existing 36-inch stormwater main.

Alternative 2: Lincoln Avenue

- Route stormwater west to Lincoln Avenue,

- then south along Lincoln Avenue,
- outfalling to Pine Street connecting to the existing 36-inch stormwater main.

Storm System Modeling and Design

The Cedar Street storm drain system was sized to accommodate stormwater runoff for a 10-year design event in accordance with the ITD Roadway Design Manual (2013 Section 645.00). Based on traffic counts provided by the city, average daily traffic (ADT) for this portion of Cedar is estimated to be well below 20,000 within a 20-year planning period as shown in the following table. The projected ADT is calculated from the growth rate of 2.6% experienced by the City according to the United States Census Bureau’s 2023 Population Estimates Program.

Average Daily Traffic: Current and Projected

Year	ADT
2024	3,720
2030	5,061
2040	8,456

The project is located in the Idaho Storm Designation Area C per ITD. Rainfall intensities were calculated from the 10-year, Zone C, Intensity-Duration-Frequency Curve. The ITD Area Classification Map, associated rainfall intensity curve, and design storm frequency table can be found in Appendix A.

Autodesk Storm and Sanitary Analysis (SSA) was used for this analysis and design. Time of concentration was estimated using the SCS TR-55 method. Curve numbers for each basin were estimated by SSA after determining pervious and impervious areas for pre- and post-development conditions. Civil3D was used to find longest flow paths and slopes from the surveyed topographic surface.

Pre- and post-development basin hydrology summaries are presented in the following tables.

Pre-Development Land Cover: See Appendix C, EX-001.

Subbasin	Area, Acres	Curve Number, CN	Time of Concentration, Min (5.00 Minimum)	Peak Runoff Rate, CFS
Basin 1	0.6	93	16.7	1.4
Basin 2	11.4	87	11.6	21.3
Basin 3	5.1	87	17.8	8.2
Basin 4	5.4	87	14.7	9.4
Basin 5	10.5	87	56.6	8.5
Basin 6	5.0	87	12.9	9.1
Basin 7	3.3	87	14.6	5.8
Basin 8	4.8	87	12.0	8.8
Basin 9	2.4	87	45.5	2.2
Basin 10	0.2	93	0.9 (5.0)	0.5
Basin 11	0.3	93	4.3 (5.0)	0.8
Basin 12	0.1	93	4.0 (5.0)	0.2
Basin 13	0.4	93	2.7 (5.0)	1.0
Basin 14	0.1	93	0.6 (5.0)	0.2
Basin 15	0.3	98	4.3 (5.0)	1.0

Post-Development Land Cover: See Appendix C, EX-002.

Subbasin	Area, Acres	Curve Number, CN	Time of Concentration, Min (5.00 Minimum)	Peak Runoff Rate, CFS
Basin 1A	0.7	93	16.7	1.4
Basin 2A	11.2	87	11.6	20.9
Basin 3A	4.9	87	19.8	7.5
Basin 4A	5.9	87	14.6	10.4
Basin 5A	11.1	87	67.7	7.8
Basin 6A	4.1	87	12.8	7.5
Basin 7A	3.5	87	14.5	6.1
Basin 8A	4.4	87	12.0	8.1
Basin 9A	1.6	87	26.1	2.1
Basin 10A	0.2	98	2.0 (5.0)	0.8
Basin 11A	0.2	98	1.6 (5.0)	0.7
Basin 12A	0.2	98	3.4 (5.0)	0.7
Basin 13A	0.2	98	3.2 (5.0)	0.7
Basin 14A	0.3	98	2.1 (5.0)	0.8
Basin 15A	0.3	98	2.1 (5.0)	0.8
Basin 16A	0.3	98	3.1 (5.0)	0.9
Basin 17A	0.3	98	4.8 (5.0)	0.9
Basin 18A	0.3	98	3.2 (5.0)	0.9
Basin 19A	0.1	98	1.9 (5.0)	0.4
Basin 20A	0.2	98	1.6 (5.0)	0.5

SSA was also used to evaluate the existing and proposed storm drain systems. The stormwater routing was performed using the hydrodynamic method and Hazen-Williams equations. This software allows for the evaluation of pre- and post-development pipe sizing and routing.

The existing Cedar Street storm drain system is undersized for the 10-year runoff event. The model indicates areas of localized flooding during this event due to undersized pipes and generally slight pipe slopes. The Division Avenue storm drain system does not have the capacity to receive runoff from Cedar Street by itself with no other incoming flows. The model indicates the system is over capacity by 26%.

We understand the City is negotiating with Avista Utilities to possibly obtain rights for routing stormwater through their property. The two proposed alternatives present viable solutions for the Cedar Street storm drain system.

- Both proposed alternatives require 30-inch stormwater main in Cedar Street connecting to a 36-inch main between Cedar Street and Pine Street. The most upstream storm main connection between manholes can accommodate a 24-inch stormwater pipe due to cover limitations. The catch basins to the storm main system will have 18-inch connection pipes.
- Both proposed alternatives direct all runoff to the west from Division Avenue.
- Both alternatives show a significant reduction of flooding and surcharging between the existing and proposed Cedar Street storm drain system.

Pre- and post-development hydraulic summaries are presented in the following tables.

Existing Hydraulics (Storm Culverts): See Plan for locations.

Pipe STA.	Pipe Size, IN	Flow Capacity, CFS	Peak Flow, CFS
09+89, OFF 13.1' RT – 10+13, OFF 13.2' RT	8	1.6	1.6*
10+13, OFF 13.2' RT – 10+40, OFF 22.8' RT	8	0.2	1.6*
11+37, OFF 15.6' LT – 11+68, OFF 12.8' RT	6	0.5	15.3*
13+36, OFF 49.2' LT – 13+69, OFF 48.9' LT	6	0.4	7.0*
13+36, OFF 49.2' LT – 13+44, OFF 16.6' RT	12	2.9	6.9*
17+74, OFF 17.2' LT – 18+32, OFF 16.5' LT	12	2.3	4.9
18+55, OFF 29.0' RT – 18+57, OFF 15.8' LT	12	4.8	4.7
18+85, OFF 31.8' RT – 19+15, OFF 30.1' RT	12	3.0	8.3*
19+61, OFF 28.6' RT – 20+18, OFF 24.0' RT	12	2.8	8.3*
20+21, OFF 19.4' RT – 20+38, OFF 18.2' LT	12	2.9	8.3*
20+38, OFF 18.2' LT – 20+77, OFF 37.1' LT	12	2.9	8.4*
24+02, OFF 34.2' LT – 24+25, OFF 24.6' LT	4	0.1	4.6*
24+25, OFF 24.6' LT – 24+53, OFF 28.8' LT	4	0.5	3.5*
24+53, OFF 28.8' LT – 28.5' RT	12	1.9	7.8*
27+57, OFF 21.2' RT – 15.4' LT	12	0.8	0.9*
27+57, OFF 15.4' LT – 27+96, OFF 0.4' LT	12	7.0	8.8*
27+96, OFF 0.4' LT – 356' RT	15	7.2	8.4
27+96, OFF 356' RT – 745' RT	18	7.3	8.4

*Localized flooding during 10-year storm event

Proposed Hydraulics (Storm Mains): See Plan for locations.

Pipe STA.	Pipe Size, IN	Alternative 1		Alternative 2	
		Capacity, CFS	Peak, CFS	Capacity, CFS	Peak, CFS
09+89 – 10+13	18	10.6	1.4	14.5	1.4
10+13, OFF 2.0' RT - 13.1' RT	30	33.9	1.4*	24.0	40.7*
10+13, OFF 13.1' RT – 1069' RT	36	-	-	35.6	40.5*
10+13 – 11+70	30	28.4	1.4*	23.1	40.7*
11+70 – 13+44	30	24.6	14.8*	23.1	26.3*
13+44 – 14+01	30	23.1	29.1*	23.1	25.5*
13+44, OFF 0.0' – 1085' RT	36	37.5	41.3*	-	-
14+01 – 16+96	30	22.9	22.5*	22.9	21.5*
16+96 – 18+56	30	22.6	18.8*	22.6	18.1*
18+56 – 20+29	30	23.4	16.5*	23.4	15.6*
20+29 – 20+77	30	23.0	16.2*	23.0	15.6*
20+77 – 22+51	30	22.9	16.1*	22.9	15.2*
22+51 – 24+38	30	23.4	15.0*	23.4	14.8*
24+38 – 27+57	24	12.3	8.5*	12.3	9.1*

*Pipe is surcharged but not overflowing. Pipe crown is submerged but runoff flow is not exceeding elevations of catch basin or manhole lids.

For the proposed storm main, the hydraulic grade of incoming flow is greater than the downstream top of pipe, but it is not above the rim elevation of the manholes or catch basins.

Outfall Comparison Hydraulics (Storm Mains): See Appendix C for locations.

Outfall Location	Existing Flow, CFS	Alternative 1 Flow, CFS	Alternative 2 Flow, CFS
Pine (A)	32.0	40.4	40.3
Division (B)	8.4	0.0	0.0
South of Madison (C)	13.1	0.0	0.0
Private property (D)	0.2	0.0	0.0
South of Monroe (E)	7.8	0.0	0.0

Stormwater System Operation and Maintenance

The City intends to apply a clover seed mix to the bioinfiltration swales to minimize required mowing which is inconsistently completed by adjacent property owners. The City is also planning to install street trees within the swale along the corridor. At this time, it is uncertain whether the City or adjacent property owners will be responsible for tree care and maintenance. A city-owned and maintained irrigation system is a possibility. Operations and maintenance associated with the overall storm drain system includes, but are not limited to:

1. Mow and remove sediment and debris from swales.
2. Repair any areas damaged by excessive erosion by re-seeding as necessary.
3. Remove sediment from catch basins, curb cuts, and manhole sumps.

Appendix

Idaho Rainfall Zone and Intensity Curve.....A
Soil Survey Map and Soil Description.....B
Drainage Basin Maps.....C
ITD Design Manual Reference.....D
Storm and Sanitary Reports.....E

Appendix A: Idaho Rainfall Zone and Intensity Curve

Figure B-7

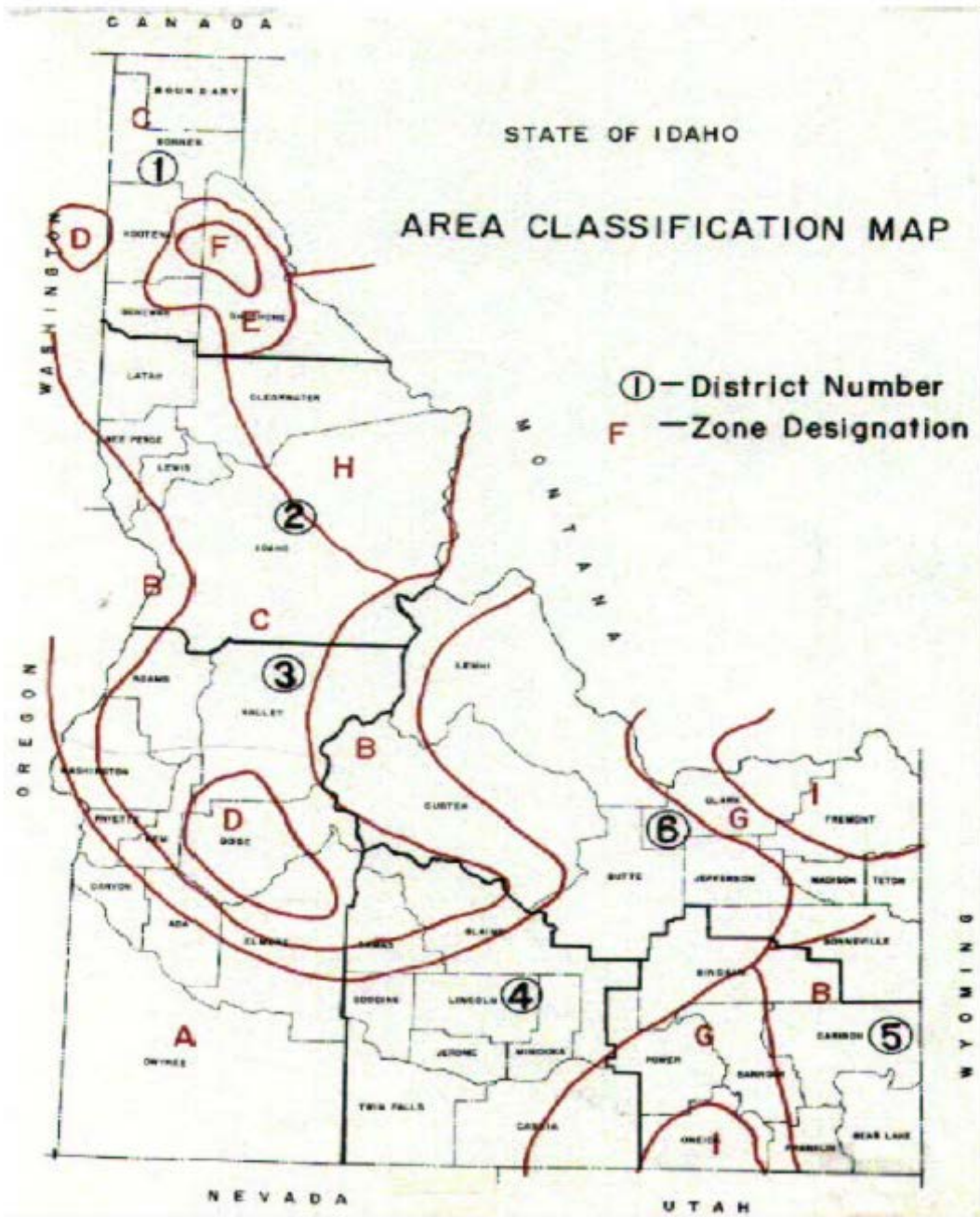
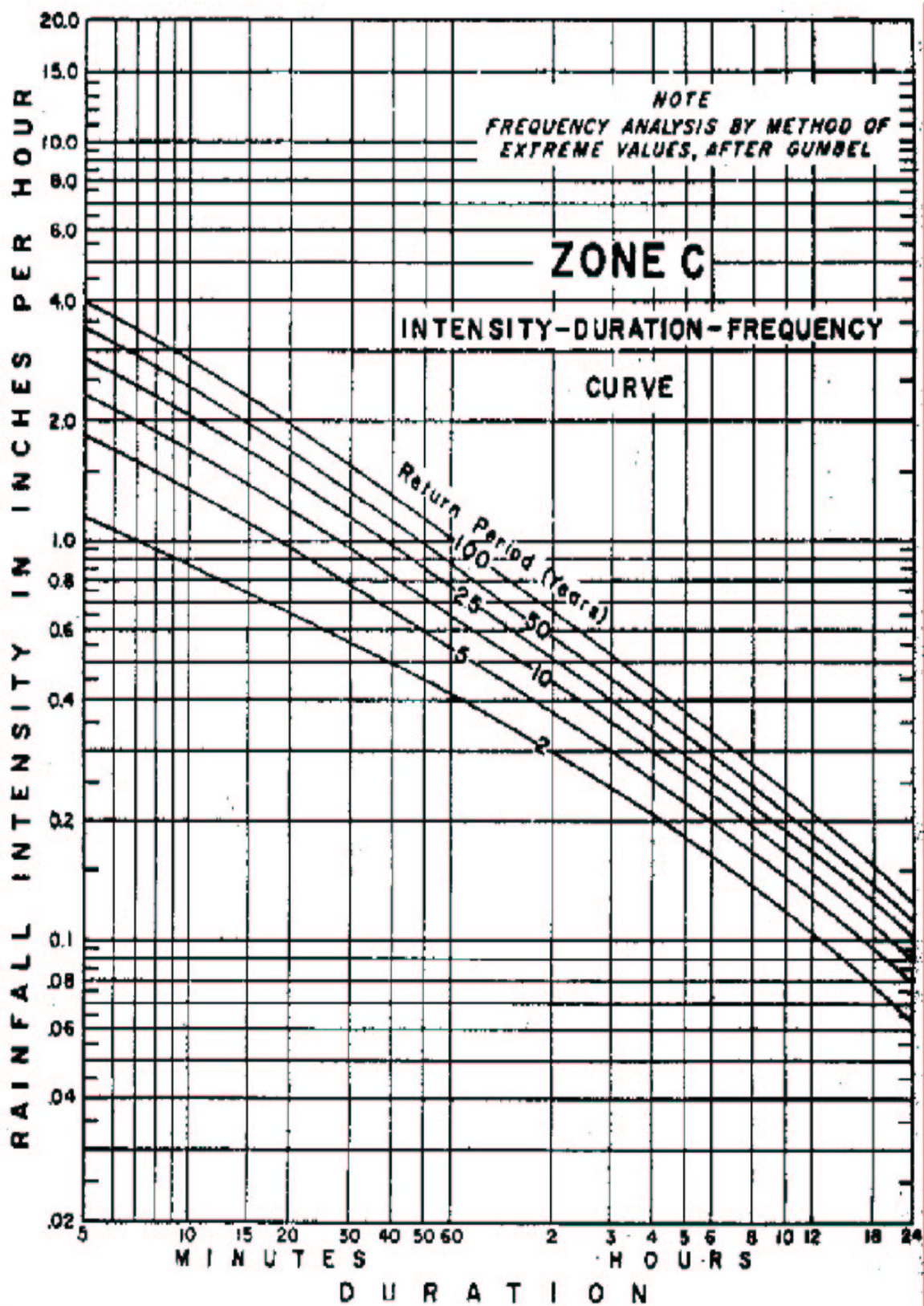
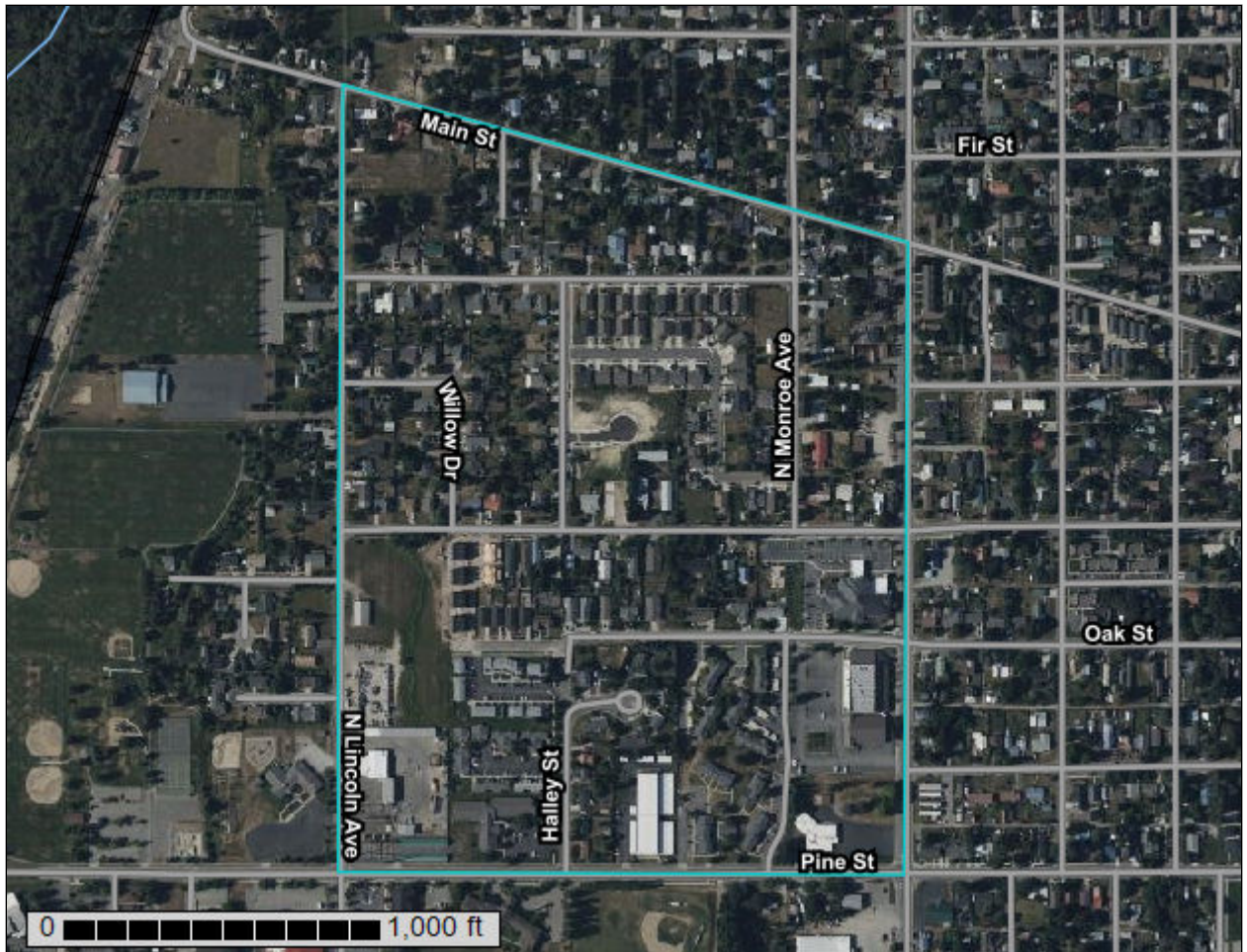


Figure B-8
Sheet 3 of 9



Appendix B: Soil Survey Map and Soil Description

Custom Soil Resource Report for Bonner County Area, Idaho, Parts of Bonner and Boundary Counties



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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 Bonner County Area, Idaho, Parts of Bonner and Boundary Counties..... 14
 31—Mission silt loam, 0 to 2 percent slopes..... 14
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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

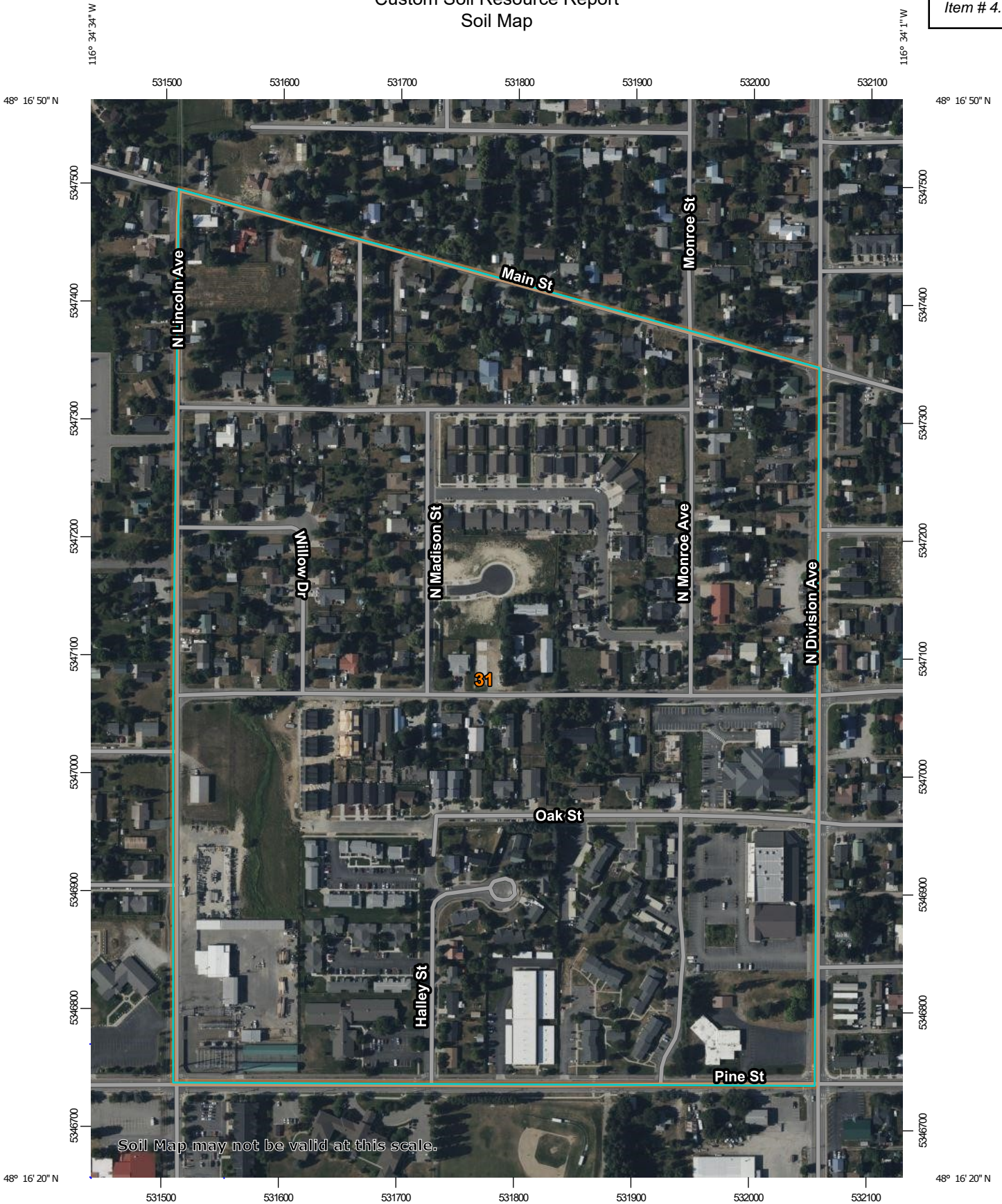
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


Custom Soil Resource Report
Soil Map

Item # 4.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bonner County Area, Idaho, Parts of Bonner and Boundary Counties
 Survey Area Data: Version 19, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 14, 2023—Aug 13, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
31	Mission silt loam, 0 to 2 percent slopes	92.8	100.0%
Totals for Area of Interest		92.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Bonner County Area, Idaho, Parts of Bonner and Boundary Counties

31—Mission silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 5462
Elevation: 2,000 to 2,800 feet
Mean annual precipitation: 25 to 38 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Mission and similar soils: 75 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mission

Setting

Landform: Lake terraces
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Volcanic ash and loess over silty glaciolacustrine deposits

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
A - 1 to 3 inches: silt loam
Bw - 3 to 12 inches: silt loam
2Btx - 12 to 21 inches: silt loam
2E - 21 to 33 inches: silt
2Bt - 33 to 48 inches: silt loam
3C - 48 to 67 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 10 to 20 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Ecological site: F043AY527WA - Warm-Frigid, Udic, Loamy Foothills/Valleys, high water table (western redcedar, moist herb) Thuja plicata / Clintonia uniflora
Other vegetative classification: western redcedar/queencup beadlily (CN530)
Hydric soil rating: No

Minor Components

Hoodoo

Percent of map unit: 3 percent
Landform: Drainageways, flood plains
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

Odenon

Percent of map unit: 2 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

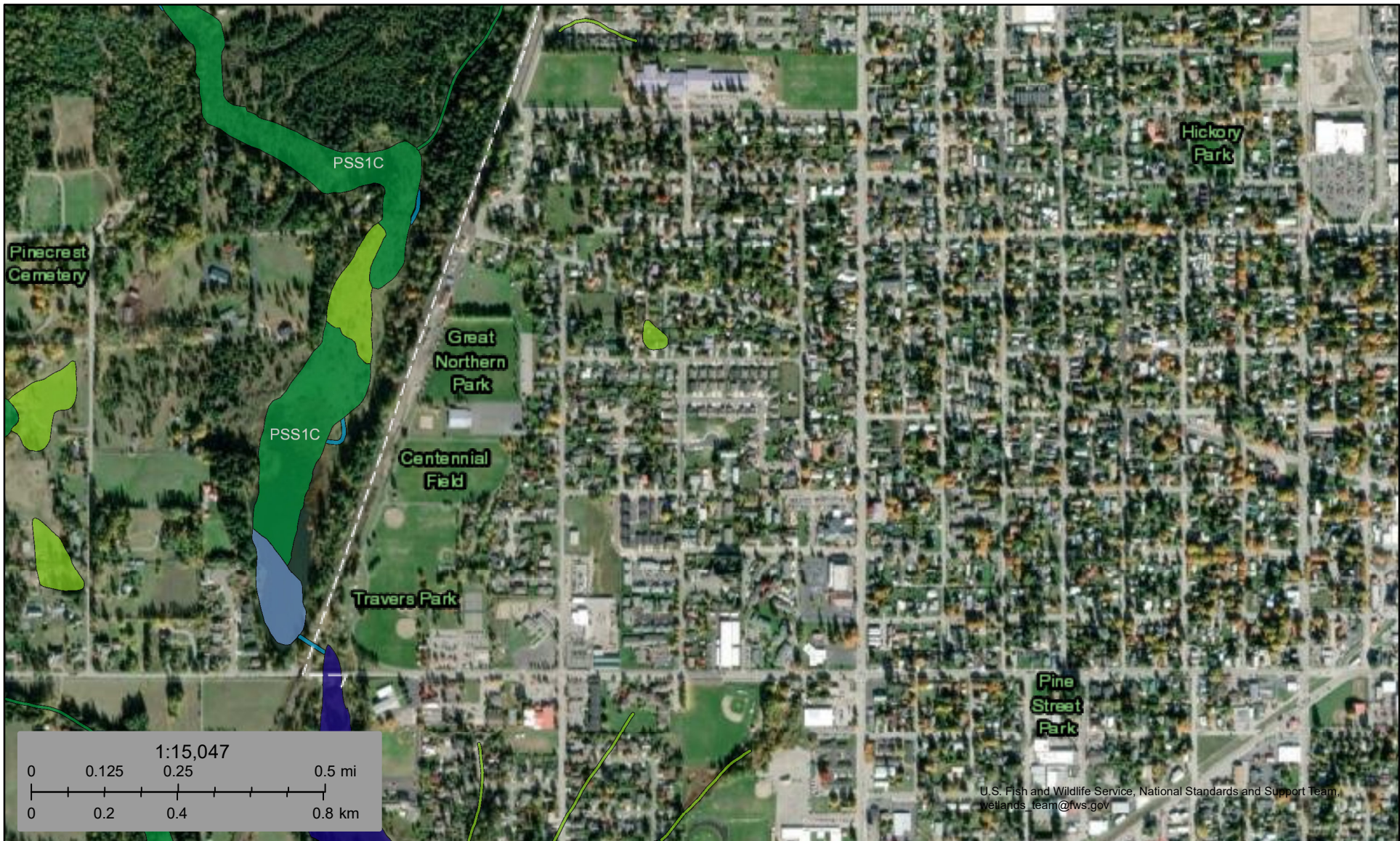
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June 26, 2024

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix C: Drainage Basin Maps

CEDAR STREET RECONSTRUCTION
CITY OF SANDPOINT
PRE DEVELOPMENT STORMWATER BASIN MAP

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

STORMWATER REPORT EXHIBITS

1"
SCALE: (11X17 ONLY)

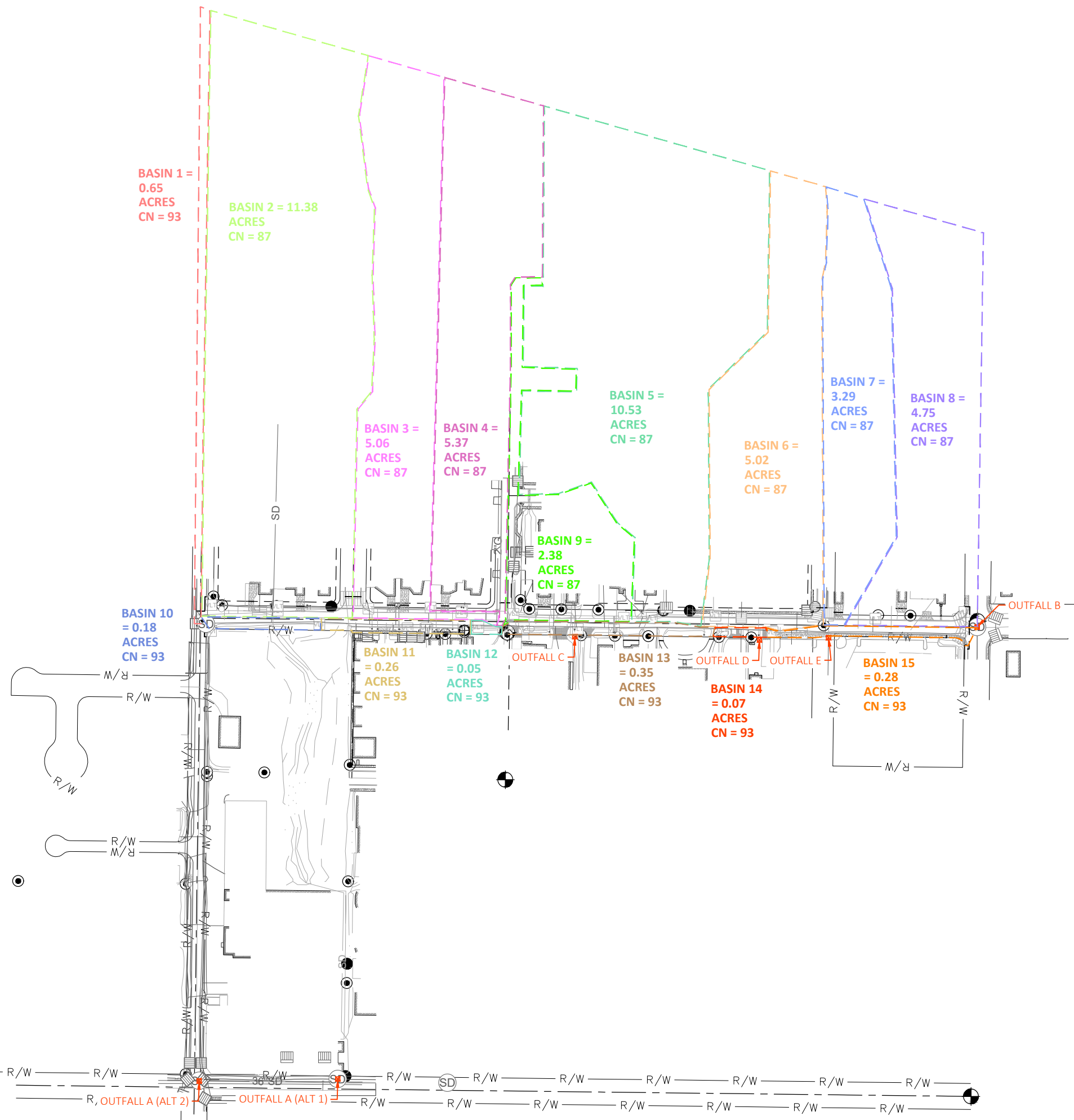
DWG: m24005 basin map.dwg
PROJECT NO: M24005
DRAWN BY: BGS
CHECKED BY: DMT
DATE: 2024/12/11

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REVISIONS
NO. DATE BY DESCRIPTION

DRAWING:

SHEET: 1 OF 2

122



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FOR CONSTRUCTION

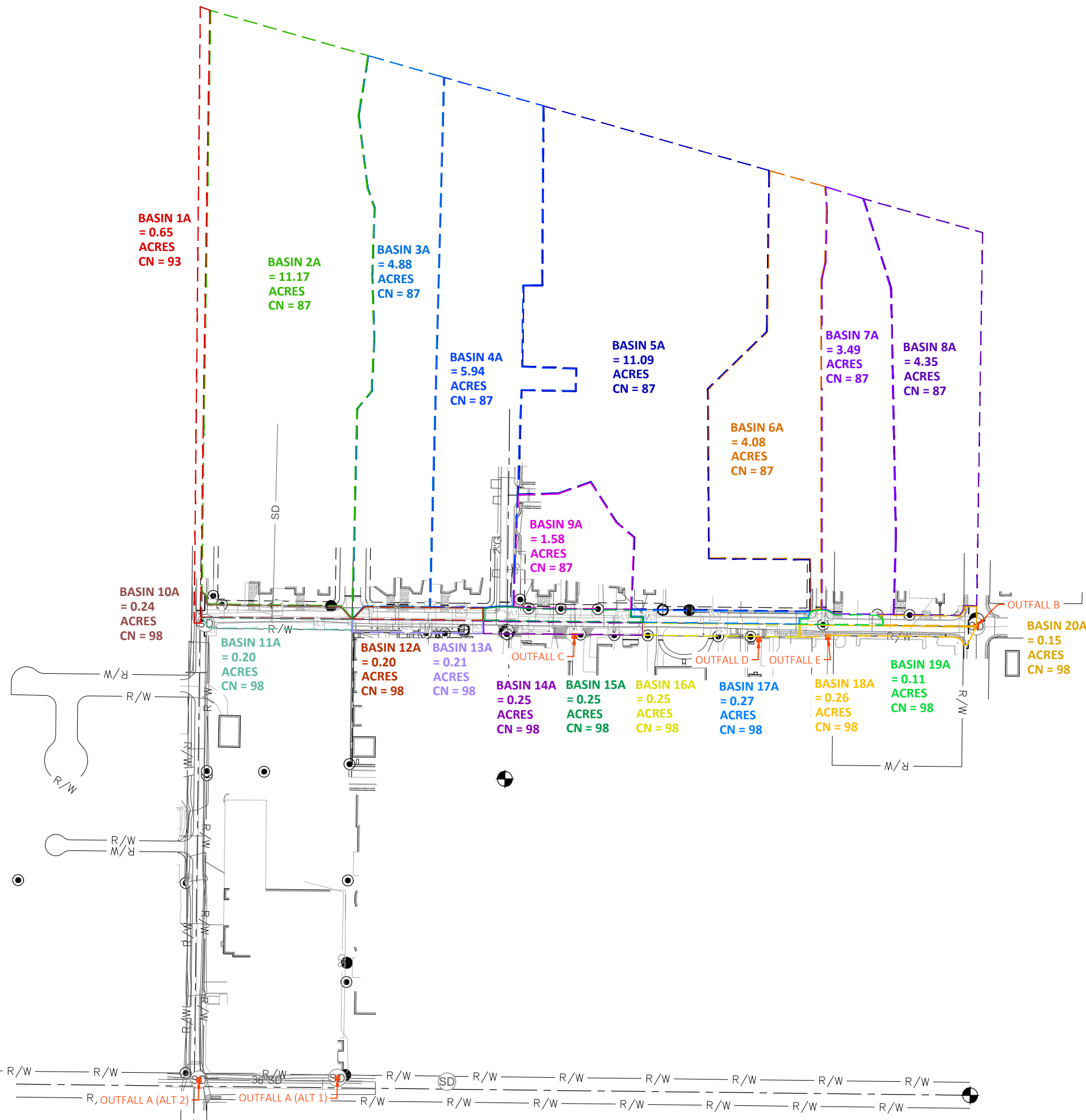
STORMWATER REPORT EXHIBITS

1"
SCALE: (11X17 ONLY)

DWG: m24005 basin map.dwg
PROJECT NO: M24005
DRAWN BY: BGS
CHECKED BY: DMT
DATE: 2024/12/11

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REVISIONS			
NO.	DATE	BY	DESCRIPTION



Plot Date: 12/11/2024 9:59 AM. Plotted By: Brandt Souvenir
Path: Z:\DOCUMENTS\PROJECTS\2024\M24005 CEDAR STREET RECONSTRUCTION\CAD\EXHIBITS\M24005 BASIN MAP.DWG



Appendix D: ITD Design Manual Reference

645.00 – STORM SEWERS

Procedures for designing storm sewers are outlined in FHWA publication “Urban Drainage Design Manual”, Hydraulic Engineering Circular No. 22.

The Hydraulic Grade Line (HGL) will be calculated and documented in the Hydraulics Report and the HGL profile will be shown on the roadway plans. The minimum diameter of pipe for storm sewers, siphons, and irrigation systems shall be 12 inches. Pipe carrying drainage from irrigated lands shall be considered as culverts and the appropriate minimum size used.

Design storm frequency will be in accordance with the table shown below.

RECOMMENDED STORM FREQUENCIES TO BE USED IN DESIGN OF STORM SEWERS	
Design Average Daily Traffic	Storm Frequency
Up to 20,000	10 years
20,000 and over, depressed underpasses, and interstate	25 years

Project life for the purpose of selecting storm sewer material will be 100 years. The limits of flooding for a Design Storm will not encroach on the traveled way beyond one-half of the adjacent travel lane.

The design flood for encroachments by through lanes of Interstate highways shall not be less than the flood with a 2 percent chance (50 year flood) of being exceeded in any given year.

The design data for storm sewers (over 24 inches) in diameter will be submitted to the Resource Center and Environmental for review.

Appendix E: Storm and Sanitary Reports

Autodesk® Storm and Sanitary Analysis 2016 - Version 13.4.304 (Build 0)

Project Description

File Name M24005 Existing V.3.SPF

Analysis Options

Flow Units cfs
Subbasin Hydrograph Method. SCS TR-55
Time of Concentration..... SCS TR-55
Link Routing Method Hydrodynamic
Storage Node Exfiltration.. Constant flow
Starting Date JUN-24-2024 00:00:00
Ending Date JUN-25-2024 00:00:00
Report Time Step 00:05:00

Element Count

Number of rain gages 1
Number of subbasins 15
Number of nodes 41
Number of links 35

Raingage Summary

Gage ID	Data Source	Data Type	Recording Interval
Rain Gage-01	TS-10	CUMULATIVE	6.00 min

Subbasin Summary

Subbasin ID	Total Area acres	Peak Rate Factor
01	0.65	484.00
02	11.38	484.00
03	5.06	484.00
04	5.37	484.00
05	10.53	484.00
06	5.02	484.00
07	3.29	484.00
08	4.75	484.00
09	2.38	484.00
10	0.18	484.00
11	0.26	484.00
12	0.05	484.00
13	0.35	484.00
14	0.07	484.00
15	0.28	484.00

Node Summary

Node ID	Element Type	Invert Elevation ft	Maximum Elev. ft	Ponded Area ft ²	External Inflow
Jun-01	JUNCTION	2092.65	2098.79	10.00	
Jun-06	JUNCTION	2104.54	2106.13	10.00	
Jun-07	JUNCTION	2102.70	2105.56	10.00	
Jun-08	JUNCTION	2103.58	2106.56	10.00	
Jun-10	JUNCTION	2103.43	2105.43	10.00	
Jun-13	JUNCTION	2103.64	2107.03	10.00	
Jun-16	JUNCTION	2100.82	2102.82	10.00	
Jun-17	JUNCTION	2096.87	2103.65	10.00	
Jun-18	JUNCTION	2099.34	2102.62	10.00	
Jun-19	JUNCTION	2099.44	2102.77	10.00	
Jun-20	JUNCTION	2087.69	2099.82	10.00	
Jun-21	JUNCTION	2104.22	2106.69	10.00	
Jun-22	JUNCTION	2104.23	2106.75	10.00	
Jun-27	JUNCTION	2097.48	2101.50	0.00	
Jun-30	JUNCTION	2088.45	2098.50	0.00	
Jun-31	JUNCTION	2090.98	2097.65	0.00	
Jun-32	JUNCTION	2102.47	2105.77	10.00	
Jun-33	JUNCTION	2087.69	2099.82	10.00	
Jun-34	JUNCTION	2089.06	2098.52	10.00	
Jun-35	JUNCTION	2095.64	2099.26	10.00	
Jun-36	JUNCTION	2096.42	2100.33	10.00	
Jun-37	JUNCTION	2095.96	2099.61	10.00	
Jun-38	JUNCTION	2094.90	2098.72	10.00	
Jun-39	JUNCTION	2096.23	2099.83	10.00	
Jun-40	JUNCTION	2104.77	2106.44	10.00	
Jun-41	JUNCTION	2103.29	2104.98	10.00	
Jun-42	JUNCTION	2102.69	2105.71	10.00	
Jun-43	JUNCTION	2100.65	2102.43	10.00	
Jun-44	JUNCTION	2100.67	2102.70	10.00	
Jun-45	JUNCTION	2104.67	2107.23	10.00	
Jun-46	JUNCTION	2103.31	2104.94	10.00	
OUT-A	OUTFALL	2080.00	2083.00	0.00	
OUT-B	OUTFALL	2088.47	2089.97	0.00	
OUT-C	OUTFALL	2100.00	2101.00	0.00	
OUT-D	OUTFALL	2105.74	2105.74	0.00	
OUT-E	OUTFALL	2102.17	2103.17	0.00	
Jun-15	STORAGE	2104.13	2106.91	10.00	
Jun-28	STORAGE	2103.27	2106.79	10.00	
Stor-05	STORAGE	2103.56	2106.69	10.00	
Stor-06	STORAGE	2103.18	2106.40	10.00	
Stor-07	STORAGE	2102.19	2106.70	10.00	

Link Summary

Link ID	From Node	To Node	Element Type	Length ft	Slope %	Manning's Roughness
09+89_OFF13.1	RT-10+13_OFF13.2	RTJun-40	Jun-21	CONDUIT	23.0	2.3043
0.0150						
10+13_OFF13.2	RT-10+40_OFF22.8	RTJun-21	Jun-22	CONDUIT	32.0	0.0312
0.0150						
11+37_OFF15.6	LT-11+68_OFF12.8	RTJun-41	Jun-07	CONDUIT	53.0	1.1132
0.0150						
13+36_OFF49.2	LT-13+44_OFF16.6	RTJun-32	Jun-10	CONDUIT	33.0	0.8182
0.0150						
13+36_OFF49.2	LT-13+69_OFF48.9	LTJun-06	Jun-10	CONDUIT	62.0	0.8710
0.0150						
17+74_OFF17.2	LT-18+32_OFF16.5	LTJun-15	Jun-28	CONDUIT	58.5	0.5299
0.0150						

18+55_OFF29.0RT-18+57_OFF15.8LT	Jun-28	Stor-07	CONDUIT	45.0	2.4000	
0.0150						
18+85_OFF31.8RT-19+15_OFF30.1RT	Stor-06	Stor-07	CONDUIT	30.0	0.9667	
0.0150						
19+61_OFF28.6RT-20+18_OFF24.0RT	Stor-05	Stor-06	CONDUIT	46.0	0.8261	
0.0150						
20+21_OFF19.4RT-20+38_OFF18.2LT	Jun-45	Stor-05	CONDUIT	41.0	0.8537	
0.0150						
20+38_OFF18.2LT-20+77_OFF37.1LT	Jun-13	Jun-45	CONDUIT	48.0	0.8542	
0.0150						
24+02_OFF34.2LT-24+25_OFF24.6LT	Jun-46	Jun-08	CONDUIT	25.0	0.0400	
0.0150						
24+25_OFF24.6LT-24+53_OFF28.8LT	Jun-08	Jun-42	CONDUIT	28.0	7.9643	
0.0150						
24+53_OFF28.8LT-28.5RT	Jun-42	OUT-E	CONDUIT	144.4	0.3601	
0.0150						
27+57_OFF15.4LT-27+96_OFF0.4LT	Jun-43	Jun-17	CONDUIT	43.9	5.1230	
0.0150						
27+57_OFF21.2RT-15.4LT	Jun-44	Jun-43	CONDUIT	31.9	0.0628	
0.0150						
27+96_OFF0.4LT-356RT	Jun-17	Jun-31	CONDUIT	356.0	1.6545	
0.0150						
27+96_OFF356RT-745RT	Jun-31	OUT-B	CONDUIT	389.0	0.6452	
0.0150						
Avista_Pipe1	Jun-27	Jun-01	CONDUIT	538.0	0.7454	0.0150
Avista_Pipe2	Jun-01	Jun-30	CONDUIT	6.5	64.6154	0.0150
Ditch1	Jun-07	Jun-22	CHANNEL	123.0	0.1951	0.0320
Ditch2	Jun-07	Jun-16	CHANNEL	170.9	1.0997	0.0320
Ditch3	Jun-06	Jun-16	CHANNEL	168.5	2.2077	0.0320
Ditch4	Jun-16	Jun-27	CHANNEL	474.5	0.7039	0.0320
Ditch5	Stor-07	OUT-C	CHANNEL	5.0	43.8000	0.0320
Lateral1-Division	Jun-19	Jun-18	CONDUIT	41.7	0.4077	0.0150
Lateral2-Division	Jun-18	Jun-17	CONDUIT	50.0	4.9400	0.0150
Lateral-Pine1	Jun-38	Jun-33	CONDUIT	28.0	27.1041	0.0150
Lateral-Pine2	Jun-37	Jun-38	CONDUIT	38.3	2.7662	0.0150
Lateral-Pine3	Jun-37	Jun-35	CONDUIT	44.8	0.7144	0.0150
Lateral-Pine4	Jun-39	Jun-37	CONDUIT	36.4	0.7414	0.0150
Lateral-Pine5	Jun-36	Jun-39	CONDUIT	39.3	0.4833	0.0150
Pine_Main1	Jun-34	Jun-30	CONDUIT	254.0	0.0236	0.0150
Pine_Main2	Jun-30	Jun-20	CONDUIT	320.0	0.2375	0.0150
Pine_Main3	Jun-20	OUT-A	CONDUIT	200.0	3.8450	0.0150

Cross Section Summary

Link Design ID Flow Capacity	Shape	Depth/ Diameter	Width	No. of Barrels	Cross Sectional Area	Full Flow Hydraulic Radius
		ft	ft		ft ²	ft

09+89_OFF13.1RT-10+13_OFF13.2RT	CIRCULAR	0.67	0.67	1	0.35
0.17	1.59				
10+13_OFF13.2RT-10+40_OFF22.8RT	CIRCULAR	0.67	0.67	1	0.35
0.17	0.19				
11+37_OFF15.6LT-11+68_OFF12.8RT	CIRCULAR	0.50	0.50	1	0.20
0.13	0.51				
13+36_OFF49.2LT-13+44_OFF16.6RT	CIRCULAR	0.50	0.50	1	0.20
0.13	0.44				
13+36_OFF49.2LT-13+69_OFF48.9LT	CIRCULAR	1.00	1.00	1	0.79
0.25	2.88				

17+74_OFF17.2LT-18+32_OFF16.5LT CIRCULAR	1.00	1.00	1	0.79
0.25 2.25				
18+55_OFF29.0RT-18+57_OFF15.8LT CIRCULAR	1.00	1.00	1	0.79
0.25 4.78				
18+85_OFF31.8RT-19+15_OFF30.1RT CIRCULAR	1.00	1.00	1	0.79
0.25 3.04				
19+61_OFF28.6RT-20+18_OFF24.0RT CIRCULAR	1.00	1.00	1	0.79
0.25 2.81				
20+21_OFF19.4RT-20+38_OFF18.2LT CIRCULAR	1.00	1.00	1	0.79
0.25 2.85				
20+38_OFF18.2LT-20+77_OFF37.1LT CIRCULAR	1.00	1.00	1	0.79
0.25 2.85				
24+02_OFF34.2LT-24+25_OFF24.6LT CIRCULAR	0.33	0.33	1	0.09
0.08 0.03				
24+25_OFF24.6LT-24+53_OFF28.8LT CIRCULAR	0.33	0.33	1	0.09
0.08 0.47				
24+53_OFF28.8LT-28.5RT CIRCULAR	1.00	1.00	1	0.79
0.25 1.85				
27+57_OFF15.4LT-27+96_OFF0.4LT CIRCULAR	1.00	1.00	1	0.79
0.25 6.99				
27+57_OFF21.2RT-15.4LT CIRCULAR	1.00	1.00	1	0.79
0.25 0.77				
27+96_OFF0.4LT-356RT CIRCULAR	1.25	1.25	1	1.23
0.31 7.20				
27+96_OFF356RT-745RT CIRCULAR	1.50	1.50	1	1.77
0.38 7.31				
Avista_Pipe1 CIRCULAR	0.67	0.67	1	0.35 0.17
0.90				
Avista_Pipe2 CIRCULAR	1.00	1.00	1	0.79 0.25
24.82				
Ditch1 TRIANGULAR	0.50	6.00	1	1.50 0.25
1.21				
Ditch2 TRIANGULAR	1.00	40.00	1	20.00 0.50
61.30				
Ditch3 PARABOLIC	1.50	50.00	1	50.00 1.00
344.44				
Ditch4 TRAPEZOIDAL	2.00	72.00	1	92.00 1.28
421.47				
Ditch5 TRAPEZOIDAL	1.00	3.00	1	2.00 0.52
39.87				
Lateral1-Division CIRCULAR	1.00	1.00	1	0.79 0.25
1.97				
Lateral2-Division CIRCULAR	1.00	1.00	1	0.79 0.25
6.86				
Lateral-Pine1 CIRCULAR	0.67	0.67	1	0.35 0.17
5.45				
Lateral-Pine2 CIRCULAR	0.67	0.67	1	0.35 0.17
1.74				
Lateral-Pine3 CIRCULAR	1.50	1.50	1	1.77 0.38
7.69				
Lateral-Pine4 CIRCULAR	1.50	1.50	1	1.77 0.38
7.84				
Lateral-Pine5 CIRCULAR	1.50	1.50	1	1.77 0.38
6.33				
Pine_Main1 CIRCULAR	3.00	3.00	1	7.07 0.75
8.88				
Pine_Main2 CIRCULAR	3.00	3.00	1	7.07 0.75
28.17				
Pine_Main3 CIRCULAR	3.00	3.00	1	7.07 0.75
113.35				

*****	Volume	Depth
Runoff Quantity Continuity	acre-ft	inches
*****	-----	-----
Total Precipitation	10.884	2.632
Surface Runoff	0.582	0.141

Continuity Error (%) -0.002

```

*****
Flow Routing Continuity
*****
Volume      Volume
acre-ft     M gallons
-----
External Inflow ..... 0.000    0.000
External Outflow ..... 5.773    1.881
Initial Stored Volume ... 0.021    0.007
Final Stored Volume ..... 0.380    0.124
Continuity Error (%) ..... -0.136

```

Composite Curve Number Computations Report

Subbasin 01

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.65	D	93.00
Composite Area & Weighted CN	0.65		93.00

Subbasin 02

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	11.38	D	87.00
Composite Area & Weighted CN	11.38		87.00

Subbasin 03

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	5.06	D	87.00
Composite Area & Weighted CN	5.06		87.00

Subbasin 04

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	5.37	D	87.00
Composite Area & Weighted CN	5.37		87.00

Subbasin 05

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	10.53	D	87.00
Composite Area & Weighted CN	10.53		87.00

Subbasin 06

Soil/Surface Description	Area (acres)	Soil Group	CN

1/4 acre lots, 38% impervious	5.02	D	87.00
Composite Area & Weighted CN	5.02		87.00

Subbasin 07

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	3.29	D	87.00
Composite Area & Weighted CN	3.29		87.00

Subbasin 08

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.75	D	87.00
Composite Area & Weighted CN	4.75		87.00

Subbasin 09

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	2.38	D	87.00
Composite Area & Weighted CN	2.38		87.00

Subbasin 10

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.18	D	93.00
Composite Area & Weighted CN	0.18		93.00

Subbasin 11

Soil/Surface Description	Area (acres)	Soil Group	CN
50 - 75% grass cover, Fair	0.00	D	84.00
Paved roads with open ditches, 50% imp	0.26	D	93.00
Composite Area & Weighted CN	0.26		93.00

Subbasin 12

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.05	D	93.00
Composite Area & Weighted CN	0.05		93.00

Subbasin 13

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.35	D	93.00
Composite Area & Weighted CN	0.35		93.00

Subbasin 14

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.07	D	93.00
Composite Area & Weighted CN	0.07		93.00

Subbasin 15

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.28	D	98.00
Composite Area & Weighted CN	0.28		98.00

SCS TR-55 Time of Concentration Computations Report

Sheet Flow Equation

$$T_c = (0.007 * ((n * L_f)^{0.8})) / ((P^{0.5}) * (S_f^{0.4}))$$

Where:

Tc = Time of Concentration (hrs)
n = Manning's Roughness
Lf = Flow Length (ft)
P = 2 yr, 24 hr Rainfall (inches)
Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation

V = 16.1345 * (Sf^{0.5}) (unpaved surface)
V = 20.3282 * (Sf^{0.5}) (paved surface)
V = 15.0 * (Sf^{0.5}) (grassed waterway surface)
V = 10.0 * (Sf^{0.5}) (nearly bare & untilled surface)
V = 9.0 * (Sf^{0.5}) (cultivated straight rows surface)
V = 7.0 * (Sf^{0.5}) (short grass pasture surface)
V = 5.0 * (Sf^{0.5}) (woodland surface)
V = 2.5 * (Sf^{0.5}) (forest w/heavy litter surface)
Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)
Lf = Flow Length (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)

Channel Flow Equation

V = (1.49 * (R^(2/3)) * (Sf^{0.5})) / n
R = Aq / Wp
Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)

Lf = Flow Length (ft)
 R = Hydraulic Radius (ft)
 Aq = Flow Area (ft²)
 Wp = Wetted Perimeter (ft)
 V = Velocity (ft/sec)
 Sf = Slope (ft/ft)
 n = Manning's Roughness

 Subbasin 01

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	100.00	0.00	
0.00	Slope (%):	1.46	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	1.01	0.00	
0.00	Computed Flow Time (minutes):	1.65	0.00	
0.00				

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	1315.00	0.00	
0.00	Slope (%):	0.82	0.00	
0.00	Surface Type:	Unpaved	Unpaved	
Unpaved	Velocity (ft/sec):	1.46	0.00	
0.00	Computed Flow Time (minutes):	15.01	0.00	
0.00				

=====
 Total TOC (minutes): 16.66
 =====

 Subbasin 02

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	50.00	0.00	
0.00	Slope (%):	2.89	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	1.15	0.00	

0.00
 0.00 Computed Flow Time (minutes): 0.72 0.00

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	1060.00	0.00	
0.00	Slope (%):	1.09	0.00	
Unpaved	Surface Type:	Unpaved	Unpaved	
0.00	Velocity (ft/sec):	1.68	0.00	
0.00	Computed Flow Time (minutes):	10.52	0.00	

 Channel Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	420.00	0.00	
0.00	Channel Slope (%):	0.50	0.00	
0.00	Cross Section Area (ft ²):	0.79	0.00	
0.00	Wetted Perimeter (ft):	0.26	0.00	
0.00	Velocity (ft/sec):	22.10	0.00	
0.00	Computed Flow Time (minutes):	0.32	0.00	

=====
 Total TOC (minutes): 11.55
 =====

 Subbasin 03

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	50.00	0.00	
0.00	Slope (%):	1.42	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.87	0.00	
0.00	Computed Flow Time (minutes):	0.96	0.00	

 Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 1446.00	0.00	
0.00	Slope (%): 0.91	0.00	
Unpaved	Surface Type: Grassed waterway	Unpaved	
0.00	Velocity (ft/sec): 1.43	0.00	
0.00	Computed Flow Time (minutes): 16.85	0.00	

=====
 Total TOC (minutes): 17.81
 =====

 Subbasin 04

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 160.00	0.00	
0.00	Slope (%): 0.59	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.77	0.00	
0.00	Computed Flow Time (minutes): 3.46	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 1243.00	0.00	
0.00	Slope (%): 0.82	0.00	
Unpaved	Surface Type: Paved	Unpaved	
0.00	Velocity (ft/sec): 1.84	0.00	
0.00	Computed Flow Time (minutes): 11.26	0.00	

=====
 Total TOC (minutes): 14.72
 =====

 Subbasin 05

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 160.00	0.00	
0.00	Slope (%): 0.52	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.73	0.00	
0.00	Computed Flow Time (minutes): 3.64	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 428.00	0.00	
0.00	Slope (%): 2.17	0.00	
Unpaved	Surface Type: Grassed waterway	Unpaved	
0.00	Velocity (ft/sec): 2.21	0.00	
0.00	Computed Flow Time (minutes): 3.23	0.00	

Channel Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.27	0.00	
0.00	Flow Length (ft): 1155.00	0.00	
0.00	Channel Slope (%): 0.13	0.00	
0.00	Cross Section Area (ft ²): 85.00	0.00	
0.00	Wetted Perimeter (ft): 31.30	0.00	
0.00	Velocity (ft/sec): 0.39	0.00	
0.00	Computed Flow Time (minutes): 49.70	0.00	

Total TOC (minutes):	56.57		
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Subbasin 06

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 120.00	0.00	

0.00	Slope (%):	0.61	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.74	0.00
0.00	Computed Flow Time (minutes):	2.71	0.00

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	977.00	0.00	
0.00	Slope (%):	0.62	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	1.60	0.00	
0.00	Computed Flow Time (minutes):	10.18	0.00	
=====				
	Total TOC (minutes):	12.89		
=====				

 Subbasin 07

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	50.00	0.00	
0.00	Slope (%):	4.64	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	1.39	0.00	
0.00	Computed Flow Time (minutes):	0.60	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	942.00	0.00	
0.00	Slope (%):	0.48	0.00	
Unpaved	Surface Type:	Unpaved	Unpaved	
0.00	Velocity (ft/sec):	1.12	0.00	
0.00	Computed Flow Time (minutes):	14.02	0.00	
=====				

Total TOC (minutes): 14.62

=====

Subbasin 08

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 257.00	0.00	
0.00	Slope (%): 1.32	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 1.17	0.00	
0.00	Computed Flow Time (minutes): 3.66	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 896.00	0.00	
0.00	Slope (%): 0.78	0.00	
Unpaved	Surface Type: Paved	Unpaved	
0.00	Velocity (ft/sec): 1.80	0.00	
0.00	Computed Flow Time (minutes): 8.30	0.00	

Total TOC (minutes): 11.96

=====

Subbasin 09

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 74.00	0.00	
0.00	Slope (%): 1.16	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.87	0.00	
0.00	Computed Flow Time (minutes): 1.42	0.00	

Shallow Concentrated Flow Computations				

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	326.00	0.00	
0.00	Slope (%):	1.15	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	2.18	0.00	
0.00	Computed Flow Time (minutes):	2.49	0.00	
0.00				
Channel Flow Computations				

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.27	0.00	
0.00	Flow Length (ft):	410.00	0.00	
0.00	Channel Slope (%):	0.61	0.00	
0.00	Cross Section Area (ft ²):	2.00	0.00	
0.00	Wetted Perimeter (ft):	8.50	0.00	
0.00	Velocity (ft/sec):	0.16	0.00	
0.00	Computed Flow Time (minutes):	41.60	0.00	
0.00				
=====				
	Total TOC (minutes):	45.51		
=====				

Subbasin 10				

Sheet Flow Computations				

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	39.00	0.00	
0.00	Slope (%):	1.45	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	0.83	0.00	
0.00	Computed Flow Time (minutes):	0.78	0.00	
0.00				
Shallow Concentrated Flow Computations				

		Subarea A	Subarea B	Subarea
C				
	Flow Length (ft):	12.00	0.00	

0.00	Slope (%):	2.47	0.00
0.00	Surface Type:	Unpaved	Unpaved
Unpaved	Velocity (ft/sec):	2.54	0.00
0.00	Computed Flow Time (minutes):	0.08	0.00
0.00			
=====			
	Total TOC (minutes):	0.86	
=====			

 Subbasin 11

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	80.00	0.00	
0.00	Slope (%):	1.48	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	0.97	0.00	
0.00	Computed Flow Time (minutes):	1.37	0.00	
0.00				

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	206.00	0.00	
0.00	Slope (%):	0.46	0.00	
0.00	Surface Type:	Paved	Unpaved	
Unpaved	Velocity (ft/sec):	1.38	0.00	
0.00	Computed Flow Time (minutes):	2.49	0.00	
0.00				

Channel Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.27	0.00	
0.00	Flow Length (ft):	9.00	0.00	
0.00	Channel Slope (%):	0.57	0.00	
0.00	Cross Section Area (ft ²):	5.80	0.00	
0.00	Wetted Perimeter (ft):	6.80	0.00	
0.00	Velocity (ft/sec):	0.37	0.00	

0.00
 0.00 Computed Flow Time (minutes): 0.40 0.00

=====

 Total TOC (minutes): 4.26

=====

 Subbasin 12

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	28.00	0.00	
0.00	Slope (%):	1.31	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.75	0.00	
0.00	Computed Flow Time (minutes):	0.62	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	4.00	0.00	
0.00	Slope (%):	9.15	0.00	
Unpaved	Surface Type:	Unpaved	Unpaved	
0.00	Velocity (ft/sec):	4.88	0.00	
0.00	Computed Flow Time (minutes):	0.01	0.00	

 Channel Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.27	0.00	
0.00	Flow Length (ft):	55.50	0.00	
0.00	Channel Slope (%):	0.51	0.00	
0.00	Cross Section Area (ft ²):	4.50	0.00	
0.00	Wetted Perimeter (ft):	7.70	0.00	
0.00	Velocity (ft/sec):	0.28	0.00	
0.00	Computed Flow Time (minutes):	3.36	0.00	

=====

 Total TOC (minutes): 3.99

=====

=====

 Subbasin 13

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	156.00	0.00	
0.00	Slope (%):	1.05	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.97	0.00	
0.00	Computed Flow Time (minutes):	2.69	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	18.50	0.00	
0.00	Slope (%):	21.70	0.00	
Unpaved	Surface Type:	Unpaved	Unpaved	
0.00	Velocity (ft/sec):	7.52	0.00	
0.00	Computed Flow Time (minutes):	0.04	0.00	

=====

Total TOC (minutes): 2.73

=====

 Subbasin 14

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	14.00	0.00	
0.00	Slope (%):	0.64	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.49	0.00	
0.00	Computed Flow Time (minutes):	0.48	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	22.00	0.00
0.00	Slope (%):	7.00	0.00
Unpaved	Surface Type:	Unpaved	Unpaved
0.00	Velocity (ft/sec):	4.27	0.00
0.00	Computed Flow Time (minutes):	0.09	0.00
=====			
	Total TOC (minutes):	0.56	
=====			

Subbasin 15

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	25.50	0.00
0.00	Slope (%):	2.54	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.96	0.00
0.00	Computed Flow Time (minutes):	0.44	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	414.00	0.00
0.00	Slope (%):	1.20	0.00
Unpaved	Surface Type:	Unpaved	Unpaved
0.00	Velocity (ft/sec):	1.77	0.00
0.00	Computed Flow Time (minutes):	3.90	0.00
=====			
	Total TOC (minutes):	4.34	
=====			

Subbasin Runoff Summary

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number	Time of Concentration days	hh:mm:ss
01	2.60	1.87	1.42	93.000	0	00:16:39
02	2.60	1.40	21.32	87.000	0	00:11:33
03	2.60	1.40	8.19	87.000	0	00:17:48
04	2.60	1.40	9.37	87.000	0	00:14:43
05	2.60	1.40	8.47	87.000	0	00:56:34
06	2.60	1.40	9.13	87.000	0	00:12:53
07	2.60	1.40	5.75	87.000	0	00:14:37
08	2.60	1.40	8.82	87.000	0	00:11:57
09	2.60	1.40	2.23	87.000	0	00:45:30
10	2.60	1.87	0.52	93.000	0	00:05:00
11	2.60	1.87	0.76	93.000	0	00:05:00
12	2.60	1.84	0.15	93.000	0	00:05:00
13	2.60	1.87	1.02	93.000	0	00:05:00
14	2.60	1.86	0.20	93.000	0	00:05:00
15	2.60	2.37	0.95	98.000	0	00:05:00

Node Depth Summary

Node ID	Average Depth Attained ft	Maximum Depth Attained ft	Maximum HGL Attained ft	Time of Max Occurrence days	hh:mm	Total Flooded Volume acre-in	Total Time Flooded minutes	Retention Time hh:mm:ss
Jun-01	0.14	1.33	2093.98	0	00:18	0	0	0:00:00
Jun-06	0.08	0.25	2104.79	0	12:15	0	0	0:00:00
Jun-07	0.25	2.44	2105.14	0	00:00	0	0	0:00:00
Jun-08	28.03	155.75	2259.33	0	12:27	0.67	141	0:00:00
Jun-10	2.31	13.25	2116.68	0	12:15	0.11	67	0:00:00
Jun-13	4.14	20.25	2123.89	0	12:35	0.10	79	0:00:00
Jun-16	0.47	0.77	2101.59	0	12:18	0	0	0:00:00
Jun-17	0.38	5.61	2102.48	0	12:06	0	0	0:00:00
Jun-18	0.06	3.29	2102.63	0	12:06	0.00	0	0:00:00
Jun-19	0.90	3.34	2102.78	0	12:06	0.00	0	0:00:00
Jun-20	0.21	1.26	2088.95	0	01:07	0	0	0:00:00
Jun-21	0.51	2.49	2106.71	0	12:07	0.00	2	0:00:00
Jun-22	0.46	2.52	2106.75	0	12:04	0.01	3	0:00:00
Jun-27	3.07	4.02	2101.50	0	12:13	6.70	155	0:00:00
Jun-30	0.43	5.86	2094.31	0	00:05	0	0	0:00:00
Jun-31	0.35	6.67	2097.65	0	12:05	0.00	0	0:00:00
Jun-32	9.55	101.53	2204.00	0	12:13	0.43	101	0:00:00
Jun-33	0.00	0.00	2087.69	0	00:00	0	0	0:00:00
Jun-34	0.01	4.34	2093.40	0	00:10	0	0	0:00:00
Jun-35	0.00	0.00	2095.64	0	00:00	0	0	0:00:00
Jun-36	0.00	0.00	2096.42	0	00:00	0	0	0:00:00
Jun-37	0.00	0.00	2095.96	0	00:00	0	0	0:00:00
Jun-38	0.00	0.00	2094.90	0	00:00	0	0	0:00:00
Jun-39	0.00	0.00	2096.23	0	00:00	0	0	0:00:00
Jun-40	0.20	2.18	2106.95	0	12:07	0.02	14	0:00:00
Jun-41	38.20	432.07	2535.36	0	12:11	2.14	139	0:00:00
Jun-42	1.47	11.30	2113.99	0	12:10	0.10	49	0:00:00
Jun-43	0.40	6.87	2107.52	0	12:08	0.04	16	0:00:00
Jun-44	0.40	6.85	2107.52	0	12:08	0.03	15	0:00:00
Jun-45	2.18	13.99	2118.66	0	12:36	0.09	68	0:00:00
Jun-46	54.84	350.93	2454.24	0	12:16	1.37	908	0:00:00
OUT-A	0.21	1.09	2081.09	0	01:07	0	0	0:00:00
OUT-B	0.32	1.50	2089.97	0	12:04	0	0	0:00:00
OUT-C	0.23	0.56	2100.56	0	12:39	0	0	0:00:00

OUT-D	0.00	0.00	2105.74	0	00:00	0	0	0:00:00
OUT-E	0.54	1.00	2103.17	0	11:49	0	0	0:00:00
Jun-15	0.79	2.63	2106.76	0	12:24	0	0	0:00:00
Jun-28	0.46	1.43	2104.70	0	12:35	0	0	0:00:00
Stor-05	2.37	10.40	2113.96	0	12:37	0.06	63	0:00:00
Stor-06	2.00	5.73	2108.91	0	12:37	0.02	41	0:00:00
Stor-07	0.30	0.80	2102.99	0	12:39	0	0	0:00:00

Node Flow Summary

Node ID	Element Type	Maximum Lateral Inflow cfs	Peak Inflow cfs	Time of Peak Inflow Occurrence days	Time of Peak Inflow Occurrence hh:mm	Maximum Flooding Overflow cfs	Time of Peak Flooding Occurrence days	Time of Peak Flooding Occurrence hh:mm
Jun-01	JUNCTION	0.00	1.24	0	14:28	0.00		
Jun-06	JUNCTION	0.00	6.93	0	12:15	0.00		
Jun-07	JUNCTION	0.00	17.00	0	12:11	0.00		
Jun-08	JUNCTION	0.00	4.61	0	12:13	1.82	0	12:11
Jun-10	JUNCTION	0.00	6.97	0	12:13	0.46	0	12:05
Jun-13	JUNCTION	8.42	8.42	0	12:30	0.35	0	12:23
Jun-16	JUNCTION	0.76	46.51	0	00:02	0.00		
Jun-17	JUNCTION	0.00	8.83	0	12:06	0.00		
Jun-18	JUNCTION	0.00	0.97	0	12:05	0.22	0	12:06
Jun-19	JUNCTION	0.00	0.74	0	12:06	0.26	0	12:06
Jun-20	JUNCTION	0.00	35.82	0	01:07	0.00		
Jun-21	JUNCTION	0.00	1.60	0	12:07	0.18	0	12:07
Jun-22	JUNCTION	0.52	1.95	0	12:05	1.29	0	12:05
Jun-27	JUNCTION	0.00	27.38	0	12:19	26.14	0	12:19
Jun-30	JUNCTION	0.00	70.46	0	00:05	0.00		
Jun-31	JUNCTION	0.00	8.43	0	12:08	1.34	0	12:05
Jun-32	JUNCTION	8.16	8.16	0	12:10	1.99	0	12:05
Jun-33	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-34	JUNCTION	0.00	20.11	0	00:37	0.00		
Jun-35	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-36	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-37	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-38	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-39	JUNCTION	0.00	0.00	0	00:00	0.00		
Jun-40	JUNCTION	1.39	1.39	0	12:10	0.58	0	12:03
Jun-41	JUNCTION	21.27	21.27	0	12:05	9.10	0	12:02
Jun-42	JUNCTION	5.51	7.99	0	12:10	0.69	0	12:05
Jun-43	JUNCTION	8.76	9.17	0	12:04	0.96	0	12:04
Jun-44	JUNCTION	0.95	0.95	0	12:00	0.41	0	12:05
Jun-45	JUNCTION	0.00	8.35	0	12:35	0.39	0	12:22
Jun-46	JUNCTION	8.97	8.97	0	12:05	5.31	0	12:05
OUT-A	OUTFALL	0.00	32.00	0	01:07	0.00		
OUT-B	OUTFALL	0.00	8.43	0	12:08	0.00		
OUT-C	OUTFALL	0.00	13.05	0	12:39	0.00		
OUT-D	OUTFALL	0.20	0.20	0	12:00	0.00		
OUT-E	OUTFALL	0.00	7.83	0	12:10	0.00		
Jun-15	STORAGE	10.24	10.24	0	12:10	0.00		
Jun-28	STORAGE	0.00	4.87	0	12:24	0.00		
Stor-05	STORAGE	0.00	8.31	0	12:35	0.42	0	12:21
Stor-06	STORAGE	0.00	8.30	0	12:36	1.44	0	12:21
Stor-07	STORAGE	1.17	13.09	0	12:36	0.00		

Storage Node Summary

Storage Node ID	Maximum	Maximum	Time of Max	Average	Average	Maximum
Maximum Total	Ponded	Ponded	Ponded	Ponded	Ponded	Storage Node
Exfiltration Exfiltrated	Volume	Volume	Volume	Volume	Volume	Outflow
Rate Volume	1000 ft ³	(%)	days hh:mm	1000 ft ³	(%)	cfs
cfm 1000 ft ³						
Jun-15	8.857	95	0 12:24	2.647	28	4.87
0.00 0.000						
Jun-28	1.144	41	0 12:35	0.366	13	4.71
0.00 0.000						
Stor-05	0.316	100	0 12:12	0.186	59	8.30
0.00 0.000						
Stor-06	2.257	100	0 12:21	1.262	56	8.29
0.00 0.000						
Stor-07	2.550	18	0 12:39	0.966	7	13.05
0.00 0.000						

 Outfall Loading Summary

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
OUT-A	99.94	1.15	32.00
OUT-B	98.79	1.00	8.43
OUT-C	97.08	3.78	13.05
OUT-D	97.05	0.02	0.20
OUT-E	96.66	1.66	7.83
System	97.90	7.61	32.00

 Link Flow Summary

Link ID	Element	Time of	Maximum	Length	Peak Flow	Design	Ratio of
Ratio of	Total	Peak Flow	Velocity	Factor	during	Flow	Maximum
Maximum	Time	Occurrence	Attained		Analysis	Capacity	/Design
Flow Surcharged	Condition	days hh:mm	ft/sec		cfs	cfs	Flow
Depth minutes							
09+89_OFF13.1RT-10+13_OFF13.2RT CONDUIT	21 SURCHARGED	0 12:07	4.58	1.00	1.60	1.59	
1.01 1.00							
10+13_OFF13.2RT-10+40_OFF22.8RT CONDUIT	35 SURCHARGED	0 12:07	4.59	1.00	1.60	0.19	
8.65 1.00							
11+37_OFF15.6LT-11+68_OFF12.8RT CONDUIT	30 SURCHARGED	0 12:11	>50.00	1.00	15.33	0.51	
29.88 1.00							

13+36_OFF49.2LT-13+44_OFF16.6RT CONDUIT	0	12:13	35.52	1.00	6.97	0.44
15.85 1.00 261 SURCHARGED						
13+36_OFF49.2LT-13+69_OFF48.9LT CONDUIT	0	12:15	13.45	1.00	6.93	2.88
2.40 0.62 0 > CAPACITY						
17+74_OFF17.2LT-18+32_OFF16.5LT CONDUIT	0	12:24	6.31	1.00	4.87	2.25
2.17 0.95 0 > CAPACITY						
18+55_OFF29.0RT-18+57_OFF15.8LT CONDUIT	0	12:35	6.72	1.00	4.71	4.78
0.98 0.90 0 Calculated						
18+85_OFF31.8RT-19+15_OFF30.1RT CONDUIT	0	12:37	10.56	1.00	8.29	3.04
2.73 1.00 34 SURCHARGED						
19+61_OFF28.6RT-20+18_OFF24.0RT CONDUIT	0	12:36	10.56	1.00	8.30	2.81
2.96 1.00 513 SURCHARGED						
20+21_OFF19.4RT-20+38_OFF18.2LT CONDUIT	0	12:35	10.58	1.00	8.31	2.85
2.91 1.00 96 SURCHARGED						
20+38_OFF18.2LT-20+77_OFF37.1LT CONDUIT	0	12:35	10.64	1.00	8.35	2.85
2.93 1.00 94 SURCHARGED						
24+02_OFF34.2LT-24+25_OFF24.6LT CONDUIT	0	12:13	>50.00	1.00	4.61	0.03
139.89 1.00 925 SURCHARGED						
24+25_OFF24.6LT-24+53_OFF28.8LT CONDUIT	0	12:27	40.21	1.00	3.51	0.47
7.54 1.00 162 SURCHARGED						
24+53_OFF28.8LT-28.5RT CONDUIT	0	12:10	9.97	1.00	7.83	1.85
4.22 1.00 94 SURCHARGED						
27+57_OFF15.4LT-27+96_OFF0.4LT CONDUIT	0	12:06	11.25	1.00	8.83	6.99
1.26 1.00 14 SURCHARGED						
27+57_OFF21.2RT-15.4LT CONDUIT	0	11:57	1.17	1.00	0.92	0.77
1.18 1.00 16 SURCHARGED						
27+96_OFF0.4LT-356RT CONDUIT	0	12:08	6.87	1.00	8.43	7.20
1.00 13 SURCHARGED						
27+96_OFF356RT-745RT CONDUIT	0	12:08	4.77	1.00	8.43	7.31
1.00 9 SURCHARGED						
Avista_Pipe1 CONDUIT	0	14:28	3.77	1.00	1.24	0.90
0.90 0 > CAPACITY						
Avista_Pipe2 CONDUIT	0	00:05	>50.00	1.00	70.46	24.82
0.84 0 > CAPACITY						
Ditch1 CHANNEL	0	12:04	1.76	1.00	1.99	1.21
0.87 0 > CAPACITY						
Ditch2 CHANNEL	0	00:02	5.79	1.00	46.51	61.30
0.69 0 Calculated						
Ditch3 CHANNEL	0	12:15	1.25	1.00	6.92	344.44
0.34 0 Calculated						
Ditch4 CHANNEL	0	12:19	1.98	1.00	27.38	421.47
0.69 0 Calculated						
Ditch5 CHANNEL	0	12:39	11.46	1.00	13.05	39.87
0.68 0 Calculated						
Lateral1-Division CONDUIT	0	12:06	1.63	1.00	0.74	1.97
1.00 5 SURCHARGED						
Lateral2-Division CONDUIT	0	12:05	1.62	1.00	0.97	6.86
1.00 8 SURCHARGED						
Lateral-Pine1 CONDUIT	0	00:00	0.00	1.00	0.00	5.45
0.00 0 Calculated						
Lateral-Pine2 CONDUIT	0	00:00	0.00	1.00	0.00	1.74
0.00 0 Calculated						
Lateral-Pine3 CONDUIT	0	00:00	0.00	1.00	0.00	7.69
0.00 0 Calculated						
Lateral-Pine4 CONDUIT	0	00:00	0.00	1.00	0.00	7.84
0.00 0 Calculated						
Lateral-Pine5 CONDUIT	0	00:00	0.00	1.00	0.00	6.33
0.00 0 Calculated						
Pine_Main1 CONDUIT	0	00:37	3.89	1.00	20.11	8.88
1.00 1 SURCHARGED						
Pine_Main2 CONDUIT	0	01:07	8.33	1.00	35.82	28.17
0.67 0 > CAPACITY						
Pine_Main3 CONDUIT	0	01:07	12.76	1.00	32.00	113.35
0.39 0 Calculated						

Highest Flow Instability Indexes

Link Avista_Pipe2 (3)
Link 10+13_OFF13.2RT-10+40_OFF22.8RT (1)

Analysis began on: Wed Dec 11 08:13:59 2024
Analysis ended on: Wed Dec 11 08:14:03 2024
Total elapsed time: 00:00:04

Autodesk® Storm and Sanitary Analysis 2016 - Version 13.4.304 (Build 0)

Project Description

File Name M24005 Proposed V.6 10-yr (east of Avista).SPF

Analysis Options

Flow Units cfs
Subbasin Hydrograph Method. SCS TR-55
Time of Concentration..... SCS TR-55
Link Routing Method Hydrodynamic
Storage Node Exfiltration.. Constant flow
Starting Date JUN-24-2024 00:00:00
Ending Date JUN-25-2024 00:00:00
Report Time Step 00:05:00

Element Count

Number of rain gages 1
Number of subbasins 20
Number of nodes 67
Number of links 64

Raingage Summary

Gage ID	Data Source	Data Type	Recording Interval	min
Rain Gage-01	TS-10	CUMULATIVE	6.00	

Subbasin Summary

Subbasin ID	Total Area acres	Peak Rate Factor
01-A	0.65	484.00
02-A	11.17	484.00
03-A	4.88	484.00
04-A	5.94	484.00
05-A	11.09	484.00
06-A	4.08	484.00
07-A	3.49	484.00
08-A	4.35	484.00
09-A	1.58	484.00
10-A	0.24	484.00
11-A	0.20	484.00
12-A	0.20	484.00
13-A	0.21	484.00
14-A	0.25	484.00
15-A	0.25	484.00
16-A	0.26	484.00
17-A	0.27	484.00
18-A	0.26	484.00

19-A 0.11 484.00
 20-A 0.15 484.00

 Node Summary

Node ID	Element Type	Invert Elevation ft	Maximum Elev. ft	Ponded Area ft ²	External Inflow
Inlet-01	JUNCTION	2099.72	2102.70	0.00	
Inlet-02	JUNCTION	2099.72	2102.43	0.00	
Inlet-04	JUNCTION	2102.50	2105.71	0.00	
Inlet-11	JUNCTION	2102.44	2105.62	0.00	
Inlet-12	JUNCTION	2102.71	2106.71	0.00	
Inlet-13	JUNCTION	2096.23	2099.83	0.00	
Inlet-14	JUNCTION	2094.90	2098.72	0.00	
Inlet-15	JUNCTION	2095.96	2099.61	0.00	
Inlet-16	JUNCTION	2096.42	2100.33	0.00	
Inlet-17	JUNCTION	2095.64	2099.26	0.00	
Inlet-18	JUNCTION	2089.06	2098.52	0.00	
Inlet-33	JUNCTION	0.00	0.67	0.00	
Jun-01	JUNCTION	2088.60	2098.79	0.00	
Jun-06	JUNCTION	2093.14	2106.33	0.00	
Jun-07	JUNCTION	2102.44	2105.70	0.00	
Jun-08	JUNCTION	2103.25	2106.56	0.00	
Jun-10	JUNCTION	2103.20	2105.70	0.00	
Jun-13	JUNCTION	2103.01	2107.17	0.00	
Jun-16	JUNCTION	2100.82	2102.82	0.00	
Jun-17	JUNCTION	2096.87	2103.65	0.00	
Jun-18	JUNCTION	2099.34	2102.62	0.00	
Jun-19	JUNCTION	2099.44	2102.77	0.00	
Jun-20	JUNCTION	2087.69	2099.82	0.00	
Jun-21	JUNCTION	2095.00	2106.71	0.00	
Jun-22	JUNCTION	2105.52	2106.52	0.00	
Jun-27	JUNCTION	2097.48	2101.50	0.00	
Jun-30	JUNCTION	2088.45	2098.50	0.00	
Jun-31	JUNCTION	2095.25	2106.69	0.00	
Jun-32	JUNCTION	2102.46	2106.83	0.00	
Jun-33	JUNCTION	2097.80	2106.70	0.00	
Jun-34	JUNCTION	2102.47	2105.97	0.00	
Jun-35	JUNCTION	2090.98	2097.65	0.00	
Jun-37	JUNCTION	2103.65	2104.98	0.00	
Jun-38	JUNCTION	2096.00	2107.00	0.00	
Jun-39	JUNCTION	2103.57	2106.86	0.00	
Jun-40	JUNCTION	2096.92	2106.86	0.00	
Jun-41	JUNCTION	2103.57	2106.57	0.00	
Jun-43	JUNCTION	2094.52	2108.25	0.00	
Jun-44	JUNCTION	2102.90	2107.54	0.00	
Jun-45	JUNCTION	2103.60	2107.12	0.00	
Jun-46	JUNCTION	2104.10	2107.11	0.00	
Jun-47	JUNCTION	2103.77	2106.77	0.00	
Jun-48	JUNCTION	2093.38	2106.99	0.00	
Jun-49	JUNCTION	2103.77	2106.48	0.00	
Jun-50	JUNCTION	2102.50	2106.33	0.00	
Jun-51	JUNCTION	2099.00	2103.15	0.00	
Jun-52	JUNCTION	2102.46	2106.69	0.00	
Jun-53	JUNCTION	2104.81	2105.81	0.00	
Jun-54	JUNCTION	2094.00	2106.71	0.00	
Jun-55	JUNCTION	2090.49	2102.00	0.00	
Jun-63	JUNCTION	2096.00	2107.82	0.00	
Jun-64	JUNCTION	2095.00	2103.43	0.00	
Out-01	OUTFALL	2087.00	2090.45	0.00	
Out-02	OUTFALL	2088.47	2089.97	0.00	
Stor-01	STORAGE	2102.10	2103.35	10.00	
Stor-10	STORAGE	2101.97	2103.22	10.00	

Stor-12	STORAGE	2104.19	2105.44	10.00
Stor-13	STORAGE	2105.82	2106.09	10.00
Stor-14	STORAGE	2106.35	2106.61	10.00
Stor-15	STORAGE	2105.70	2106.43	10.00
Stor-16	STORAGE	2105.69	2106.42	10.00
Stor-17	STORAGE	2106.37	2107.62	10.00
Stor-18	STORAGE	2106.88	2107.22	10.00
Stor-19	STORAGE	2105.73	2106.98	10.00
Stor-20	STORAGE	2105.02	2106.27	10.00
Stor-21	STORAGE	2105.34	2105.60	10.00
Stor-22	STORAGE	2105.35	2105.61	10.00

Link Summary

Link ID	From Node	To Node	Element Type	Length ft	Slope %	Manning's Roughness
09+89-10+13	Inlet-12	Jun-64	CONDUIT	24.0	2.5417	0.0150
10+13_OFF2.0RT	13.1RT	Jun-64	CONDUIT	11.0	0.9091	0.0150
10+13-11+70	Jun-21	Jun-54	CONDUIT	157.0	0.6369	0.0150
11+70-13+44	Jun-54	Jun-06	CONDUIT	180.0	0.4778	0.0150
13+44-14+01	Jun-48	Jun-06	CONDUIT	57.0	0.4211	0.0150
14+01-16+96	Jun-43	Jun-48	CONDUIT	275.0	0.4145	0.0150
16+96-18+56	Jun-31	Jun-43	CONDUIT	181.0	0.4033	0.0150
18+56-20+29	Jun-63	Jun-31	CONDUIT	173.0	0.4335	0.0150
20+29-20+77	Jun-38	Jun-63	CONDUIT	48.0	0.4167	0.0150
20+77-22+51	Jun-40	Jun-38	CONDUIT	174.0	0.4138	0.0150
22+51-24+38	Jun-33	Jun-40	CONDUIT	204.0	0.4314	0.0150
24+38-27+57	Jun-51	Jun-33	CONDUIT	303.0	0.3960	0.0150
Ditch1	Jun-22	Jun-53	CHANNEL	123.0	0.5772	0.0320
Ditch2	Jun-53	Jun-16	CHANNEL	170.9	2.3340	0.0320
Ditch3	Jun-50	Jun-16	CHANNEL	168.5	0.9970	0.0320
Ditch4	Jun-16	Jun-27	CHANNEL	474.5	0.7039	0.0320
Ditch5	Jun-27	Jun-55	CONDUIT	84.0	2.9524	0.0150
Division_Main1	Jun-17	Jun-35	CONDUIT	356.0	1.6545	0.0150
Division_Main2	Jun-35	Out-02	CONDUIT	389.0	0.6452	0.0150
Laterall1	Jun-07	Jun-54	CONDUIT	14.0	1.7143	0.0150
Laterall10	Jun-32	Jun-31	CONDUIT	15.0	1.7333	0.0150
Laterall11	Jun-52	Jun-31	CONDUIT	18.0	1.4444	0.0150
Laterall12	Jun-13	Jun-38	CONDUIT	19.9	0.8564	0.0150
Laterall13	Jun-41	Jun-40	CONDUIT	15.0	2.4667	0.0150
Laterall14	Jun-39	Jun-40	CONDUIT	10.0	3.7000	0.0150
Laterall15	Jun-37	Jun-08	CONDUIT	20.0	2.0000	0.0150
Laterall16	Jun-08	Inlet-04	CONDUIT	21.0	3.5714	0.0150
Laterall17	Inlet-04	Jun-33	CONDUIT	17.0	1.4706	0.0150
Laterall18	Inlet-02	Jun-51	CONDUIT	14.0	2.6429	0.0150
Laterall19	Inlet-01	Jun-51	CONDUIT	14.0	2.6429	0.0150
Lateral2	Inlet-11	Jun-54	CONDUIT	14.0	1.7143	0.0150
Lateral3	Jun-34	Jun-10	CONDUIT	33.0	0.8182	0.0150
Lateral4	Jun-10	Jun-06	CONDUIT	52.0	2.3077	0.0150
Lateral5	Jun-47	Jun-48	CONDUIT	14.0	1.9286	0.0150
Lateral6	Jun-49	Jun-48	CONDUIT	14.0	1.9286	0.0150
Lateral7	Jun-46	Jun-45	CONDUIT	25.0	2.0000	0.0150
Lateral8	Jun-45	Jun-44	CONDUIT	32.0	2.1875	0.0150
Lateral9	Jun-44	Jun-43	CONDUIT	14.0	2.8571	0.0150
Lateral-Division1	Jun-19	Jun-18	CONDUIT	41.7	0.4077	0.0150
Lateral-Division2	Jun-18	Jun-17	CONDUIT	50.0	4.9400	0.0150
Lateral-Pine1	Inlet-14	Inlet-33	CONDUIT	28.0	7471.1127	0.0150
Lateral-Pine2	Inlet-15	Inlet-14	CONDUIT	38.3	2.7662	0.0150
Lateral-Pine3	Inlet-15	Inlet-17	CONDUIT	45.0	0.7111	0.0150
Lateral-Pine4	Inlet-13	Inlet-15	CONDUIT	46.0	0.5870	0.0150
Lateral-Pine5	Inlet-16	Inlet-13	CONDUIT	40.0	0.4750	0.0150
Main_EastofAvista1	Jun-06	Jun-55	CONDUIT	631.0	0.4200	0.0150
Main_EastofAvista2	Jun-55	Jun-01	CONDUIT	448.0	0.4219	0.0150

Main_EastofAvista3Jun-01		Jun-30	CONDUIT	6.5	0.7692	0.0150
Pine_Main1	Inlet-18	Jun-30	CONDUIT	254.0	0.2402	0.0150
Pine_Main2	Jun-30	Jun-20	CONDUIT	320.0	0.2375	0.0150
PineMain3	Jun-20	Out-01	CONDUIT	100.0	0.2400	0.0150
Weir-01	Stor-17	Jun-45	WEIR			
Weir-02	Stor-22	Inlet-11	WEIR			
Weir-03	Stor-21	Jun-07	WEIR			
Weir-04	Stor-20	Jun-34	WEIR			
Weir-05	Stor-18	Jun-47	WEIR			
Weir-06	Stor-19	Jun-49	WEIR			
Weir-07	Stor-15	Jun-32	WEIR			
Weir-08	Stor-16	Jun-52	WEIR			
Weir-09	Stor-13	Jun-41	WEIR			
Weir-10	Stor-14	Jun-39	WEIR			
Weir-11	Stor-12	Jun-37	WEIR			
Weir-12	Stor-10	Inlet-02	WEIR			
Weir-13	Stor-01	Inlet-01	WEIR			

 Cross Section Summary

Link Design ID Flow Capacity	Shape	Depth/ Diameter ft	Width ft	No. of Barrels	Cross Sectional Area ft ²	Full Flow Hydraulic Radius ft
09+89-10+13 10.60	CIRCULAR	1.33	1.33	1	1.40	0.33
10+13_OFF2.0RT-13.1RT 0.63 33.89	CIRCULAR	2.50	2.50	1	4.91	
10+13-11+70 28.37	CIRCULAR	2.50	2.50	1	4.91	0.63
11+70-13+44 24.57	CIRCULAR	2.50	2.50	1	4.91	0.63
13+44-14+01 23.07	CIRCULAR	2.50	2.50	1	4.91	0.63
14+01-16+96 22.89	CIRCULAR	2.50	2.50	1	4.91	0.63
16+96-18+56 22.58	CIRCULAR	2.50	2.50	1	4.91	0.63
18+56-20+29 23.41	CIRCULAR	2.50	2.50	1	4.91	0.63
20+29-20+77 22.95	CIRCULAR	2.50	2.50	1	4.91	0.63
20+77-22+51 22.87	CIRCULAR	2.50	2.50	1	4.91	0.63
22+51-24+38 23.35	CIRCULAR	2.50	2.50	1	4.91	0.63
24+38-27+57 12.34	CIRCULAR	2.00	2.00	1	3.14	0.50
Ditch1 6.44	TRIANGULAR	1.00	6.00	1	3.00	0.47
Ditch2 89.31	TRIANGULAR	1.00	40.00	1	20.00	0.50
Ditch3 231.47	PARABOLIC	1.50	50.00	1	50.00	1.00
Ditch4 421.47	TRAPEZOIDAL	2.00	72.00	1	92.00	1.28
Ditch5 9.62	CIRCULAR	1.25	1.25	1	1.23	0.31

Division_Main1	CIRCULAR	1.50	1.50	1	1.77	0.38
11.71						
Division_Main2	CIRCULAR	1.50	1.50	1	1.77	0.38
7.31						
Lateral1	CIRCULAR	1.33	1.33	1	1.40	0.33
8.71						
Lateral10	CIRCULAR	1.33	1.33	1	1.40	0.33
8.75						
Lateral11	CIRCULAR	1.33	1.33	1	1.40	0.33
7.99						
Lateral12	CIRCULAR	2.50	2.50	1	4.91	0.63
32.90						
Lateral13	CIRCULAR	1.33	1.33	1	1.40	0.33
10.44						
Lateral14	CIRCULAR	1.33	1.33	1	1.40	0.33
12.79						
Lateral15	CIRCULAR	1.33	1.33	1	1.40	0.33
9.40						
Lateral16	CIRCULAR	1.33	1.33	1	1.40	0.33
12.57						
Lateral17	CIRCULAR	1.33	1.33	1	1.40	0.33
8.06						
Lateral18	CIRCULAR	1.33	1.33	1	1.40	0.33
10.81						
Lateral19	CIRCULAR	1.33	1.33	1	1.40	0.33
10.81						
Lateral2	CIRCULAR	1.33	1.33	1	1.40	0.33
8.71						
Lateral3	CIRCULAR	1.50	1.50	1	1.77	0.38
8.23						
Lateral4	CIRCULAR	1.50	1.50	1	1.77	0.38
13.83						
Lateral5	CIRCULAR	1.33	1.33	1	1.40	0.33
9.23						
Lateral6	CIRCULAR	1.33	1.33	1	1.40	0.33
9.23						
Lateral7	CIRCULAR	1.33	1.33	1	1.40	0.33
9.40						
Lateral8	CIRCULAR	1.33	1.33	1	1.40	0.33
9.84						
Lateral9	CIRCULAR	1.33	1.33	1	1.40	0.33
11.24						
Lateral-Division1	CIRCULAR	1.00	1.00	1	0.79	0.25
1.97						
Lateral-Division2	CIRCULAR	1.00	1.00	1	0.79	0.25
6.86						
Lateral-Pine1	CIRCULAR	0.67	0.67	1	0.35	0.17
90.52						
Lateral-Pine2	CIRCULAR	0.67	0.67	1	0.35	0.17
1.74						
Lateral-Pine3	CIRCULAR	1.50	1.50	1	1.77	0.38
7.68						
Lateral-Pine4	CIRCULAR	1.50	1.50	1	1.77	0.38
6.97						
Lateral-Pine5	CIRCULAR	1.50	1.50	1	1.77	0.38
6.27						
Main_EastofAvista1	CIRCULAR	3.00	3.00	1	7.07	0.75
37.46						
Main_EastofAvista2	CIRCULAR	3.00	3.00	1	7.07	0.75
37.55						
Main_EastofAvista3	CIRCULAR	3.00	3.00	1	7.07	0.75
50.70						
Pine_Main1	CIRCULAR	3.00	3.00	1	7.07	0.75
28.33						
Pine_Main2	CIRCULAR	3.00	3.00	1	7.07	0.75
28.17						
PineMain3	CIRCULAR	3.00	3.00	1	7.07	0.75

28.32

```

*****
Runoff Quantity Continuity      Volume      Depth
                              acre-ft     inches
*****
Total Precipitation .....      10.886      2.632
Surface Runoff .....            0.595      0.144
Continuity Error (%) .....      -0.002
    
```

```

*****
Flow Routing Continuity      Volume      Volume
                              acre-ft     Mgallons
*****
External Inflow .....          0.000      0.000
External Outflow .....         5.651      1.842
Initial Stored Volume ....      0.012      0.004
Final Stored Volume .....       0.038      0.012
Continuity Error (%) .....      -0.000
    
```

```

*****
Composite Curve Number Computations Report
*****
    
```

```

-----
Subbasin 01-A
-----
    
```

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with open ditches, 50% imp	0.65	D	93.00
Composite Area & Weighted CN	0.65		93.00

```

-----
Subbasin 02-A
-----
    
```

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	11.17	D	87.00
Composite Area & Weighted CN	11.17		87.00

```

-----
Subbasin 03-A
-----
    
```

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.88	D	87.00
Composite Area & Weighted CN	4.88		87.00

```

-----
Subbasin 04-A
-----
    
```

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	5.94	D	87.00
Composite Area & Weighted CN	5.94		87.00

```

-----
Subbasin 05-A
-----
    
```

Soil/Surface Description	Area (acres)	Soil Group	CN

1/4 acre lots, 38% impervious	11.09	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	11.09		87.00

Subbasin 06-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.08	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	4.08		87.00

Subbasin 07-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	3.49	D	87.00
-	0.00	-	0.00
Composite Area & Weighted CN	3.49		87.00

Subbasin 08-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.35	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	4.35		87.00

Subbasin 09-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	1.58	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	1.58		87.00

Subbasin 10-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.24	D	98.00
Composite Area & Weighted CN	0.24		98.00

Subbasin 11-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.20	D	98.00
Composite Area & Weighted CN	0.20		98.00

Subbasin 12-A

Soil/Surface Description	Area (acres)	Soil Group	CN
--------------------------	-----------------	---------------	----

Paved roads with curbs & sewers	0.20	D	98.00
Composite Area & Weighted CN	0.20		98.00

Subbasin 13-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.21	D	98.00
Composite Area & Weighted CN	0.21		98.00

Subbasin 14-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.25	D	98.00
Composite Area & Weighted CN	0.25		98.00

Subbasin 15-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.25	D	98.00
Composite Area & Weighted CN	0.25		98.00

Subbasin 16-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.26	D	98.00
Composite Area & Weighted CN	0.26		98.00

Subbasin 17-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.27	D	98.00
Composite Area & Weighted CN	0.27		98.00

Subbasin 18-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.26	D	98.00
Composite Area & Weighted CN	0.26		98.00

Subbasin 19-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.11	D	98.00
Composite Area & Weighted CN	0.11		98.00

 Subbasin 20-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.15	D	98.00
Composite Area & Weighted CN	0.15		98.00

 SCS TR-55 Time of Concentration Computations Report

Sheet Flow Equation

$$T_c = (0.007 * ((n * L_f)^{0.8})) / ((P^{0.5}) * (S_f^{0.4}))$$

Where:

Tc = Time of Concentration (hrs)
 n = Manning's Roughness
 Lf = Flow Length (ft)
 P = 2 yr, 24 hr Rainfall (inches)
 Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation

V = 16.1345 * (Sf^{0.5}) (unpaved surface)
 V = 20.3282 * (Sf^{0.5}) (paved surface)
 V = 15.0 * (Sf^{0.5}) (grassed waterway surface)
 V = 10.0 * (Sf^{0.5}) (nearly bare & untilled surface)
 V = 9.0 * (Sf^{0.5}) (cultivated straight rows surface)
 V = 7.0 * (Sf^{0.5}) (short grass pasture surface)
 V = 5.0 * (Sf^{0.5}) (woodland surface)
 V = 2.5 * (Sf^{0.5}) (forest w/heavy litter surface)
 Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)
 Lf = Flow Length (ft)
 V = Velocity (ft/sec)
 Sf = Slope (ft/ft)

Channel Flow Equation

V = (1.49 * (R^(2/3)) * (Sf^{0.5})) / n
 R = Aq / Wp
 Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)
 Lf = Flow Length (ft)
 R = Hydraulic Radius (ft)
 Aq = Flow Area (ft²)
 Wp = Wetted Perimeter (ft)
 V = Velocity (ft/sec)
 Sf = Slope (ft/ft)
 n = Manning's Roughness

 Subbasin 01-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	100.00	0.00
0.00	Slope (%):	1.46	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	1.01	0.00
0.00	Computed Flow Time (minutes):	1.65	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	1315.00	0.00
0.00	Slope (%):	0.82	0.00
Unpaved	Surface Type:	Unpaved	Unpaved
0.00	Velocity (ft/sec):	1.46	0.00
0.00	Computed Flow Time (minutes):	15.01	0.00

=====

Total TOC (minutes): 16.66

=====

Subbasin 02-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	50.00	0.00
0.00	Slope (%):	2.89	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	1.15	0.00
0.00	Computed Flow Time (minutes):	0.72	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	1060.00	0.00

0.00	Slope (%):	1.09	0.00
Unpaved	Surface Type:	Unpaved	Unpaved
0.00	Velocity (ft/sec):	1.68	0.00
0.00	Computed Flow Time (minutes):	10.52	0.00

Channel Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	430.00	0.00	
0.00	Channel Slope (%):	0.50	0.00	
0.00	Cross Section Area (ft ²):	0.79	0.00	
0.00	Wetted Perimeter (ft):	0.26	0.00	
0.00	Velocity (ft/sec):	22.10	0.00	
0.00	Computed Flow Time (minutes):	0.32	0.00	

=====
 Total TOC (minutes): 11.56
 =====

 Subbasin 03-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	200.00	0.00	
0.00	Slope (%):	1.40	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	1.14	0.00	
0.00	Computed Flow Time (minutes):	2.93	0.00	

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	1446.00	0.00	
0.00	Slope (%):	0.91	0.00	
0.00	Surface Type:	Grassed waterway	Unpaved	
Unpaved	Velocity (ft/sec):	1.43	0.00	
0.00				

0.00 Computed Flow Time (minutes): 16.85 0.00

=====
 Total TOC (minutes): 19.78
 =====

 Subbasin 04-A

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	160.00	0.00	
0.00	Slope (%):	0.59	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.77	0.00	
0.00	Computed Flow Time (minutes):	3.46	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	1232.00	0.00	
0.00	Slope (%):	0.82	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	1.84	0.00	
0.00	Computed Flow Time (minutes):	11.16	0.00	

=====
 Total TOC (minutes): 14.62
 =====

 Subbasin 05-A

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	160.00	0.00	
0.00	Slope (%):	0.35	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	

0.00	Velocity (ft/sec):	0.63	0.00
0.00	Computed Flow Time (minutes):	4.26	0.00

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	35.00	0.00	
0.00	Slope (%):	12.20	0.00	
Unpaved	Surface Type:	Grassed waterway	Unpaved	
0.00	Velocity (ft/sec):	5.24	0.00	
0.00	Computed Flow Time (minutes):	0.11	0.00	

Channel Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.27	0.00	
0.00	Flow Length (ft):	1155.00	0.00	
0.00	Channel Slope (%):	0.08	0.00	
0.00	Cross Section Area (ft ²):	85.00	0.00	
0.00	Wetted Perimeter (ft):	31.30	0.00	
0.00	Velocity (ft/sec):	0.30	0.00	
0.00	Computed Flow Time (minutes):	63.36	0.00	
=====				
	Total TOC (minutes):	67.73		
=====				

Subbasin 06-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	120.00	0.00	
0.00	Slope (%):	0.61	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.74	0.00	
0.00	Computed Flow Time (minutes):	2.71	0.00	

Shallow Concentrated Flow Computations

```

-----
C                               Subarea A           Subarea B           Subarea
0.00   Flow Length (ft):         968.00             0.00
0.00   Slope (%):                0.62               0.00
Unpaved Surface Type:           Paved              Unpaved
0.00   Velocity (ft/sec):        1.60               0.00
0.00   Computed Flow Time (minutes): 10.08             0.00

=====
Total TOC (minutes):           12.79
=====

```

Subbasin 07-A

Sheet Flow Computations

```

C                               Subarea A           Subarea B           Subarea
0.00   Manning's Roughness:      0.01               0.00
0.00   Flow Length (ft):         50.00             0.00
0.00   Slope (%):                4.64               0.00
1.90   2 yr, 24 hr Rainfall (in): 1.90               1.90
0.00   Velocity (ft/sec):        1.39               0.00
0.00   Computed Flow Time (minutes): 0.60               0.00

```

Shallow Concentrated Flow Computations

```

C                               Subarea A           Subarea B           Subarea
0.00   Flow Length (ft):         937.00             0.00
0.00   Slope (%):                0.48               0.00
Unpaved Surface Type:           Unpaved            Unpaved
0.00   Velocity (ft/sec):        1.12               0.00
0.00   Computed Flow Time (minutes): 13.94             0.00

=====
Total TOC (minutes):           14.54
=====

```

Subbasin 08-A

Sheet Flow Computations

-----		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	257.00	0.00	
0.00	Slope (%):	1.32	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	1.17	0.00	
0.00	Computed Flow Time (minutes):	3.66	0.00	
0.00				
Shallow Concentrated Flow Computations				

C	Flow Length (ft):	896.00	0.00	
0.00	Slope (%):	0.78	0.00	
0.00	Surface Type:	Paved	Unpaved	
Unpaved	Velocity (ft/sec):	1.80	0.00	
0.00	Computed Flow Time (minutes):	8.30	0.00	
0.00				
=====				
	Total TOC (minutes):	11.96		
=====				

-----		Subarea A	Subarea B	Subarea
Subbasin 09-A				

Sheet Flow Computations				

C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	55.00	0.00	
0.00	Slope (%):	1.26	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	0.84	0.00	
0.00	Computed Flow Time (minutes):	1.09	0.00	
0.00				
Shallow Concentrated Flow Computations				

C	Flow Length (ft):	305.00	0.00	
0.00	Slope (%):	1.60	0.00	
0.00	Surface Type:	Unpaved	Unpaved	

Unpaved
 0.00 Velocity (ft/sec): 2.04 0.00
 0.00 Computed Flow Time (minutes): 2.49 0.00

Channel Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Manning's Roughness:	0.27	0.00	
0.00 Flow Length (ft):	300.00	0.00	
0.00 Channel Slope (%):	1.11	0.00	
0.00 Cross Section Area (ft ²):	2.00	0.00	
0.00 Wetted Perimeter (ft):	8.50	0.00	
0.00 Velocity (ft/sec):	0.22	0.00	
0.00 Computed Flow Time (minutes):	22.56	0.00	
=====			
Total TOC (minutes):	26.14		
=====			

 Subbasin 10-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Manning's Roughness:	0.01	0.00	
0.00 Flow Length (ft):	22.00	0.00	
0.00 Slope (%):	1.52	0.00	
0.00 2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90 Velocity (ft/sec):	0.76	0.00	
0.00 Computed Flow Time (minutes):	0.48	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Flow Length (ft):	173.00	0.00	
0.00 Slope (%):	0.83	0.00	
0.00 Surface Type:	Paved	Unpaved	
Unpaved Velocity (ft/sec):	1.85	0.00	
0.00 Computed Flow Time (minutes):	1.56	0.00	
0.00			

```

=====
Total TOC (minutes):                2.04
=====

```

```

-----
Subbasin 11-A
-----

```

```

-----
Sheet Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	25.00	0.00
0.00	Slope (%):	1.50	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.77	0.00
0.00	Computed Flow Time (minutes):	0.54	0.00

```

-----
Shallow Concentrated Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	160.50	0.00
0.00	Slope (%):	1.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	2.49	0.00
0.00	Computed Flow Time (minutes):	1.07	0.00

```

=====
Total TOC (minutes):                1.61
=====

```

```

-----
Subbasin 12-A
-----

```

```

-----
Sheet Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	20.00	0.00
0.00	Slope (%):	0.70	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.54	0.00
0.00	Computed Flow Time (minutes):	0.61	0.00

0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	236.50	0.00
0.00	Slope (%):	0.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	1.44	0.00
0.00	Computed Flow Time (minutes):	2.74	0.00
=====			
	Total TOC (minutes):	3.35	
=====			

Subbasin 13-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	20.00	0.00
0.00	Slope (%):	1.01	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.63	0.00
0.00	Computed Flow Time (minutes):	0.53	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	234.00	0.00
0.00	Slope (%):	0.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	1.44	0.00
0.00	Computed Flow Time (minutes):	2.71	0.00
=====			
	Total TOC (minutes):	3.24	
=====			

Subbasin 14-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	28.00	0.00
0.00	Slope (%):	1.27	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.74	0.00
0.00	Computed Flow Time (minutes):	0.63	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	176.00	0.00
0.00	Slope (%):	1.01	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	2.04	0.00
0.00	Computed Flow Time (minutes):	1.44	0.00

=====

Total TOC (minutes): 2.07

=====

Subbasin 15-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	25.00	0.00
0.00	Slope (%):	1.24	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.72	0.00
0.00	Computed Flow Time (minutes):	0.58	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	181.00	0.00

0.00	Slope (%):	1.00	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	2.03	0.00
0.00	Computed Flow Time (minutes):	1.49	0.00

	Total TOC (minutes):	2.07	
--	----------------------	------	--

 Subbasin 16-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	22.00	0.00	
0.00	Slope (%):	1.11	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	0.67	0.00	
0.00	Computed Flow Time (minutes):	0.55	0.00	

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	207.00	0.00	
0.00	Slope (%):	0.43	0.00	
0.00	Surface Type:	Paved	Unpaved	
Unpaved	Velocity (ft/sec):	1.33	0.00	
0.00	Computed Flow Time (minutes):	2.59	0.00	

	Total TOC (minutes):	3.14	
--	----------------------	------	--

 Subbasin 17-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00				

0.00	Flow Length (ft):	17.00	0.00
0.00	Slope (%):	5.40	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	1.19	0.00
0.00	Computed Flow Time (minutes):	0.24	0.00

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	240.00	0.00	
0.00	Slope (%):	0.34	0.00	
Unpaved	Surface Type:	Grassed waterway	Unpaved	
0.00	Velocity (ft/sec):	0.87	0.00	
0.00	Computed Flow Time (minutes):	4.60	0.00	
=====				
	Total TOC (minutes):	4.83		
=====				

 Subbasin 18-A

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	25.50	0.00	
0.00	Slope (%):	1.00	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.66	0.00	
0.00	Computed Flow Time (minutes):	0.64	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	348.00	0.00	
0.00	Slope (%):	1.24	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	2.26	0.00	
0.00	Computed Flow Time (minutes):	2.57	0.00	

=====
 Total TOC (minutes): 3.21
 =====

 Subbasin 19-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	25.00	0.00	
0.00	Slope (%):	1.01	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.66	0.00	
0.00	Computed Flow Time (minutes):	0.63	0.00	

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	173.00	0.00	
0.00	Slope (%):	1.19	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	2.22	0.00	
0.00	Computed Flow Time (minutes):	1.30	0.00	

=====
 Total TOC (minutes): 1.93
 =====

 Subbasin 20-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	20.00	0.00	
0.00	Slope (%):	2.23	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.87	0.00	

0.00 Computed Flow Time (minutes): 0.38 0.00

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	161.00	0.00	
0.00	Slope (%):	1.29	0.00	
0.00	Surface Type:	Paved	Unpaved	
Unpaved	Velocity (ft/sec):	2.31	0.00	
0.00	Computed Flow Time (minutes):	1.16	0.00	

=====
 Total TOC (minutes): 1.55
 =====

 Subbasin Runoff Summary

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number	Time of Concentration days	hh:mm:ss
01-A	2.60	1.87	1.42	93.000	0	00:16:39
02-A	2.60	1.40	20.90	87.000	0	00:11:33
03-A	2.60	1.40	7.53	87.000	0	00:19:46
04-A	2.60	1.40	10.39	87.000	0	00:14:37
05-A	2.60	1.40	7.80	87.000	0	01:07:43
06-A	2.60	1.40	7.45	87.000	0	00:12:47
07-A	2.60	1.40	6.11	87.000	0	00:14:32
08-A	2.60	1.40	8.08	87.000	0	00:11:57
09-A	2.60	1.40	2.11	87.000	0	00:26:08
10-A	2.60	2.37	0.82	98.000	0	00:05:00
11-A	2.60	2.37	0.67	98.000	0	00:05:00
12-A	2.60	2.37	0.67	98.000	0	00:05:00
13-A	2.60	2.37	0.71	98.000	0	00:05:00
14-A	2.60	2.37	0.84	98.000	0	00:05:00
15-A	2.60	2.37	0.84	98.000	0	00:05:00
16-A	2.60	2.37	0.88	98.000	0	00:05:00
17-A	2.60	2.37	0.90	98.000	0	00:05:00
18-A	2.60	2.37	0.88	98.000	0	00:05:00
19-A	2.60	2.36	0.37	98.000	0	00:05:00
20-A	2.60	2.37	0.49	98.000	0	00:05:00

 Node Depth Summary

Node ID	Average Depth Attained ft	Maximum Depth Attained ft	Maximum HGL Attained ft	Time of Max Occurrence days	hh:mm	Total Flooded Volume acre-in	Total Time Flooded minutes	Retention Time hh:mm:ss
Inlet-01	0.19	2.86	2102.58	0	12:15	0	0	0:00:00

Inlet-02	0.35	2.71	2102.43	0	12:06	1.35	16	0:00:00
Inlet-04	0.39	1.67	2104.17	0	12:10	0	0	0:00:00
Inlet-11	0.54	3.18	2105.62	0	11:59	1.04	14	0:00:00
Inlet-12	0.10	0.38	2103.09	0	12:10	0	0	0:00:00
Inlet-13	0.00	0.00	2096.23	0	00:00	0	0	0:00:00
Inlet-14	0.00	0.00	2094.90	0	00:00	0	0	0:00:00
Inlet-15	0.00	0.00	2095.96	0	00:00	0	0	0:00:00
Inlet-16	0.00	0.00	2096.42	0	00:00	0	0	0:00:00
Inlet-17	0.00	0.00	2095.64	0	00:00	0	0	0:00:00
Inlet-18	0.58	3.90	2092.96	0	12:15	0	0	0:00:00
Inlet-33	0.00	0.00	0.00	0	00:00	0	0	0:00:00
Jun-01	1.22	4.89	2093.49	0	12:15	0	0	0:00:00
Jun-06	1.08	6.69	2099.83	0	12:13	0	0	0:00:00
Jun-07	0.07	0.27	2102.71	0	12:03	0	0	0:00:00
Jun-08	0.31	1.69	2104.94	0	12:08	0	0	0:00:00
Jun-10	0.00	0.00	2103.20	0	00:00	0	0	0:00:00
Jun-13	0.00	0.00	2103.01	0	00:00	0	0	0:00:00
Jun-16	0.00	0.02	2100.84	0	00:08	0	0	0:00:00
Jun-17	0.00	0.00	2096.87	0	00:00	0	0	0:00:00
Jun-18	0.00	0.00	2099.34	0	00:00	0	0	0:00:00
Jun-19	0.00	0.00	2099.44	0	00:00	0	0	0:00:00
Jun-20	1.11	3.20	2090.89	0	12:15	0	0	0:00:00
Jun-21	0.32	5.27	2100.27	0	12:13	0	0	0:00:00
Jun-22	0.01	1.00	2106.52	0	00:00	0	0	0:00:00
Jun-27	0.01	0.03	2097.51	0	01:09	0	0	0:00:00
Jun-30	1.16	4.51	2092.96	0	12:15	0	0	0:00:00
Jun-31	1.00	6.79	2102.04	0	12:13	0	0	0:00:00
Jun-32	0.18	0.58	2103.04	0	12:15	0	0	0:00:00
Jun-33	0.62	4.78	2102.58	0	12:14	0	0	0:00:00
Jun-34	0.00	0.00	2102.47	0	00:00	0	0	0:00:00
Jun-35	0.00	0.00	2090.98	0	00:00	0	0	0:00:00
Jun-37	0.26	1.33	2104.98	0	12:01	0.84	14	0:00:00
Jun-38	1.19	6.33	2102.33	0	12:14	0	0	0:00:00
Jun-39	0.07	0.24	2103.81	0	12:05	0	0	0:00:00
Jun-40	0.90	5.61	2102.53	0	12:14	0	0	0:00:00
Jun-41	0.48	1.36	2104.93	0	12:40	0	0	0:00:00
Jun-43	1.04	7.21	2101.73	0	12:13	0	0	0:00:00
Jun-44	0.30	1.66	2104.56	0	12:04	0	0	0:00:00
Jun-45	0.31	2.31	2105.91	0	12:04	0	0	0:00:00
Jun-46	0.34	3.01	2107.11	0	12:04	0.05	7	0:00:00
Jun-47	0.30	1.52	2105.29	0	12:10	0	0	0:00:00
Jun-48	1.18	7.25	2100.63	0	12:13	0	0	0:00:00
Jun-49	0.07	0.30	2104.07	0	12:00	0	0	0:00:00
Jun-50	0.00	0.00	2102.50	0	00:00	0	0	0:00:00
Jun-51	0.44	3.56	2102.56	0	12:14	0	0	0:00:00
Jun-52	0.08	0.30	2102.76	0	12:04	0	0	0:00:00
Jun-53	0.00	0.26	2105.07	0	00:02	0	0	0:00:00
Jun-54	0.66	6.24	2100.24	0	12:13	0	0	0:00:00
Jun-55	1.05	5.69	2096.18	0	12:15	0	0	0:00:00
Jun-63	0.93	6.26	2102.26	0	12:13	0	0	0:00:00
Jun-64	0.41	5.24	2100.24	0	12:13	0	0	0:00:00
Out-01	0.00	0.00	2087.00	0	00:00	0	0	0:00:00
Out-02	0.00	0.00	2088.47	0	00:00	0	0	0:00:00
Stor-01	0.05	0.43	2102.53	0	12:16	0	0	0:00:00
Stor-10	0.04	0.46	2102.43	0	12:06	0	0	0:00:00
Stor-12	0.05	0.79	2104.98	0	12:13	0	0	0:00:00
Stor-13	0.04	0.17	2105.99	0	12:06	0	0	0:00:00
Stor-14	0.04	0.18	2106.53	0	12:05	0	0	0:00:00
Stor-15	0.11	0.38	2106.08	0	12:15	0	0	0:00:00
Stor-16	0.04	0.19	2105.88	0	12:04	0	0	0:00:00
Stor-17	0.00	0.00	2106.37	0	00:00	0	0	0:00:00
Stor-18	0.03	0.16	2107.04	0	12:05	0	0	0:00:00
Stor-19	0.03	0.20	2105.93	0	12:00	0	0	0:00:00
Stor-20	0.00	0.00	2105.02	0	00:00	0	0	0:00:00
Stor-21	0.03	0.17	2105.51	0	12:03	0	0	0:00:00
Stor-22	0.04	0.31	2105.66	0	12:00	0.00	5	0:00:00

Node Flow Summary

Node ID	Element Type	Maximum Lateral Inflow cfs	Peak Inflow cfs	Time of Peak Inflow Occurrence days hh:mm	Maximum Flooding Overflow cfs	Time of Peak Flooding Occurrence days hh:mm
Inlet-01	JUNCTION	0.00	1.03	0 12:04	0.00	
Inlet-02	JUNCTION	8.31	8.47	0 12:04	8.13	0 12:11
Inlet-04	JUNCTION	0.00	7.86	0 12:05	0.00	
Inlet-11	JUNCTION	20.85	21.48	0 12:05	7.79	0 12:05
Inlet-12	JUNCTION	1.39	1.39	0 12:10	0.00	
Inlet-13	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-14	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-15	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-16	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-17	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-18	JUNCTION	0.00	1.29	0 12:00	0.00	
Inlet-33	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-01	JUNCTION	0.00	40.36	0 12:15	0.00	
Jun-06	JUNCTION	0.00	43.48	0 12:09	0.00	
Jun-07	JUNCTION	0.00	0.56	0 12:03	0.00	
Jun-08	JUNCTION	5.85	7.86	0 12:04	0.00	
Jun-10	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-13	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-16	JUNCTION	0.00	0.74	0 00:03	0.00	
Jun-17	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-18	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-19	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-20	JUNCTION	0.00	40.36	0 12:15	0.00	
Jun-21	JUNCTION	0.00	1.71	0 12:03	0.00	
Jun-22	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-27	JUNCTION	0.00	0.07	0 00:22	0.00	
Jun-30	JUNCTION	0.00	40.36	0 12:15	0.00	
Jun-31	JUNCTION	0.00	18.04	0 12:25	0.00	
Jun-32	JUNCTION	0.00	2.21	0 12:15	0.00	
Jun-33	JUNCTION	0.00	16.31	0 12:04	0.00	
Jun-34	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-35	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-37	JUNCTION	7.35	7.35	0 12:05	5.35	0 12:05
Jun-38	JUNCTION	0.00	16.05	0 12:01	0.00	
Jun-39	JUNCTION	0.00	0.62	0 12:05	0.00	
Jun-40	JUNCTION	0.00	17.76	0 12:01	0.00	
Jun-41	JUNCTION	7.80	7.94	0 12:40	0.00	
Jun-43	JUNCTION	0.00	24.12	0 12:06	0.00	
Jun-44	JUNCTION	0.00	9.40	0 12:04	0.00	
Jun-45	JUNCTION	0.00	9.40	0 12:04	0.00	
Jun-46	JUNCTION	9.96	9.96	0 12:05	0.56	0 12:05
Jun-47	JUNCTION	7.52	7.93	0 12:10	0.00	
Jun-48	JUNCTION	0.00	30.18	0 12:08	0.00	
Jun-49	JUNCTION	0.00	0.71	0 12:00	0.00	
Jun-50	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-51	JUNCTION	0.00	8.93	0 12:04	0.00	
Jun-52	JUNCTION	0.00	0.68	0 12:04	0.00	
Jun-53	JUNCTION	0.00	2.61	0 00:00	0.00	
Jun-54	JUNCTION	0.00	15.65	0 12:05	0.00	
Jun-55	JUNCTION	0.00	41.32	0 12:12	0.00	
Jun-63	JUNCTION	0.00	16.19	0 12:25	0.00	
Jun-64	JUNCTION	0.00	1.39	0 12:10	0.00	
Out-01	OUTFALL	0.00	40.36	0 12:15	0.00	
Out-02	OUTFALL	0.00	0.00	0 00:00	0.00	
Stor-01	STORAGE	0.88	0.91	0 12:09	0.00	
Stor-10	STORAGE	0.49	2.35	0 12:06	0.00	

Stor-12	STORAGE	0.00	2.53	0	12:01	0.00	
Stor-13	STORAGE	0.90	0.90	0	12:00	0.00	
Stor-14	STORAGE	0.88	0.88	0	12:00	0.00	
Stor-15	STORAGE	2.22	2.22	0	12:15	0.00	
Stor-16	STORAGE	0.84	0.84	0	12:00	0.00	
Stor-17	STORAGE	0.00	0.00	0	00:00	0.00	
Stor-18	STORAGE	0.67	0.67	0	12:00	0.00	
Stor-19	STORAGE	0.71	0.71	0	12:00	0.00	
Stor-20	STORAGE	0.00	0.00	0	00:00	0.00	
Stor-21	STORAGE	0.67	0.67	0	12:00	0.00	
Stor-22	STORAGE	0.82	1.64	0	11:59	0.29	0 12:00

Storage Node Summary

Storage Node ID	Maximum	Maximum	Time of Max	Average	Average	Maximum	
Maximum	Total	Ponded	Ponded	Ponded	Ponded	Storage Node	
Exfiltration	Exfiltrated	Volume	Volume	Volume	Volume	Outflow	
Rate	Volume	1000 ft ³	(%)	days hh:mm	1000 ft ³	(%)	cfs
cfm	1000 ft ³						
Stor-01		0.320	34	0 12:16	0.036	4	0.80
0.00	0.000						
Stor-10		0.346	37	0 12:06	0.033	3	1.21
0.00	0.000						
Stor-12		0.596	63	0 12:13	0.034	4	1.75
0.00	0.000						
Stor-13		0.560	64	0 12:06	0.133	15	0.56
0.00	0.000						
Stor-14		0.452	70	0 12:05	0.098	15	0.62
0.00	0.000						
Stor-15		0.553	52	0 12:15	0.155	15	2.21
0.00	0.000						
Stor-16		0.295	26	0 12:04	0.058	5	0.68
0.00	0.000						
Stor-17		0.000	0	0 00:00	0.000	0	0.00
0.00	0.000						
Stor-18		0.281	48	0 12:05	0.057	10	0.51
0.00	0.000						
Stor-19		0.000	16	0 12:00	0.000	3	0.71
0.00	0.000						
Stor-20		0.000	0	0 00:00	0.000	0	0.00
0.00	0.000						
Stor-21		0.209	66	0 12:03	0.040	13	0.56
0.00	0.000						
Stor-22		0.433	100	0 12:00	0.072	17	1.13
0.00	0.000						

Outfall Loading Summary

Outfall Node ID	Flow	Average	Peak
	Frequency	Flow	Inflow
	(%)	cfs	cfs

Out-01	99.57	8.57	40.36
Out-02	0.00	0.00	0.00
System	49.78	8.57	40.36

 Link Flow Summary

Link ID	Ratio of	Total	Element Reported Type Condition	Time of Peak Flow Occurrence	Maximum Velocity Attained	Length Factor	Peak Flow during Analysis	Design Flow Capacity	Ratio of Maximum /Design Flow
Flow Surcharged Depth		Time minutes		days hh:mm	ft/sec		cfs	cfs	Flow
09+89-10+13	0.27	0	CONDUIT Calculated	0 12:10	4.67	1.00	1.39	10.60	0.13
10+13_OFF2.0RT-13.1RT	1.00	20	CONDUIT SURCHARGED	0 12:05	2.19	1.00	1.40	33.89	0.04
10+13-11+70	1.00	20	CONDUIT SURCHARGED	0 12:05	0.57	1.00	1.42	28.37	0.05
11+70-13+44	1.00	27	CONDUIT SURCHARGED	0 12:12	3.17	1.00	14.77	24.57	0.60
13+44-14+01	1.00	33	CONDUIT SURCHARGED	0 12:09	5.93	1.00	29.11	23.07	1.26
14+01-16+96	1.00	36	CONDUIT SURCHARGED	0 12:25	4.58	1.00	22.50	22.89	0.98
16+96-18+56	1.00	34	CONDUIT SURCHARGED	0 12:25	3.93	1.00	18.83	22.58	0.83
18+56-20+29	1.00	32	CONDUIT SURCHARGED	0 12:34	3.83	1.00	16.50	23.41	0.70
20+29-20+77	1.00	32	CONDUIT SURCHARGED	0 12:25	3.92	1.00	16.19	22.95	0.71
20+77-22+51	1.00	31	CONDUIT SURCHARGED	0 12:01	3.93	1.00	16.05	22.87	0.70
22+51-24+38	1.00	26	CONDUIT SURCHARGED	0 12:01	3.89	1.00	15.01	23.35	0.64
24+38-27+57	1.00	23	CONDUIT SURCHARGED	0 12:04	3.23	1.00	8.47	12.34	0.69
Ditch1	0.51	0	CHANNEL Calculated	0 00:00	3.75	1.00	2.61	6.44	0.40
Ditch2	0.13	0	CHANNEL Calculated	0 00:03	2.84	1.00	0.74	89.31	0.01
Ditch3	0.01	0	CHANNEL Calculated	0 00:00	0.00	1.00	0.00	231.47	0.00
Ditch4	0.01	0	CHANNEL Calculated	0 00:22	0.24	1.00	0.07	421.47	0.00
Ditch5	0.48	0	CONDUIT Calculated	0 01:09	1.27	1.00	0.01	9.62	0.00
Division_Main1	0.00	0	CONDUIT Calculated	0 00:00	0.00	1.00	0.00	11.71	0.00
Division_Main2	0.00	0	CONDUIT Calculated	0 00:00	0.00	1.00	0.00	7.31	0.00
Lateral1	0.19	0	CONDUIT Calculated	0 12:03	3.10	1.00	0.56	8.71	0.06
Lateral10	0.39	0	CONDUIT Calculated	0 12:15	4.38	1.00	2.21	8.75	0.25

Lateral11		CONDUIT	0	12:04	3.14	1.00	0.68	7.99	0.09
0.21	0	Calculated							
Lateral12		CONDUIT	0	00:00	0.00	1.00	0.00	32.90	0.00
0.00	0	Calculated							
Lateral13		CONDUIT	0	12:40	6.44	1.00	7.94	10.44	0.76
0.83	0	Calculated							
Lateral14		CONDUIT	0	12:05	4.07	1.00	0.62	12.79	0.05
0.17	0	Calculated							
Lateral15		CONDUIT	0	12:18	3.61	1.00	4.24	9.40	0.45
1.00	15	SURCHARGED							
Lateral16		CONDUIT	0	12:05	5.63	1.00	7.86	12.57	0.63
1.00	19	SURCHARGED							
Lateral17		CONDUIT	0	12:08	5.94	1.00	7.86	8.06	0.97
0.90	0	Calculated							
Lateral18		CONDUIT	0	12:04	6.44	1.00	8.44	10.81	0.78
1.00	24	SURCHARGED							
Lateral19		CONDUIT	0	12:04	2.77	1.00	0.88	10.81	0.08
1.00	23	SURCHARGED							
Lateral2		CONDUIT	0	12:11	9.81	1.00	13.69	8.71	1.57
1.00	16	SURCHARGED							
Lateral3		CONDUIT	0	00:00	0.00	1.00	0.00	8.23	0.00
0.00	0	Calculated							
Lateral4		CONDUIT	0	00:00	0.00	1.00	0.00	13.83	0.00
0.00	0	Calculated							
Lateral5		CONDUIT	0	12:10	6.23	1.00	7.93	9.23	0.86
0.86	0	Calculated							
Lateral6		CONDUIT	0	12:00	3.44	1.00	0.71	9.23	0.08
0.20	0	Calculated							
Lateral7		CONDUIT	0	12:04	6.73	1.00	9.40	9.40	1.00
1.00	13	SURCHARGED							
Lateral8		CONDUIT	0	12:04	6.73	1.00	9.40	9.84	0.96
1.00	11	SURCHARGED							
Lateral9		CONDUIT	0	12:04	7.43	1.00	9.40	11.24	0.84
0.85	0	Calculated							
Lateral-Division1		CONDUIT	0	00:00	0.00	1.00	0.00	1.97	0.00
0.00	0	Calculated							
Lateral-Division2		CONDUIT	0	00:00	0.00	1.00	0.00	6.86	0.00
0.00	0	Calculated							
Lateral-Pine1		CONDUIT	0	00:00	0.00	1.00	0.00	90.52	0.00
0.00	0	Calculated							
Lateral-Pine2		CONDUIT	0	00:00	0.00	1.00	0.00	1.74	0.00
0.00	0	Calculated							
Lateral-Pine3		CONDUIT	0	00:00	0.00	1.00	0.00	7.68	0.00
0.00	0	Calculated							
Lateral-Pine4		CONDUIT	0	00:00	0.00	1.00	0.00	6.97	0.00
0.00	0	Calculated							
Lateral-Pine5		CONDUIT	0	00:00	0.00	1.00	0.00	6.27	0.00
0.00	0	Calculated							
Main_EastofAvista1		CONDUIT	0	12:12	5.85	1.00	41.32	37.46	1.10
1.00	28	SURCHARGED							
Main_EastofAvista2		CONDUIT	0	12:15	5.71	1.00	40.36	37.55	1.07
1.00	33	SURCHARGED							
Main_EastofAvista3		CONDUIT	0	12:15	5.71	1.00	40.36	50.70	0.80
1.00	32	SURCHARGED							
Pine_Main1		CONDUIT	0	12:00	0.27	1.00	1.29	28.33	0.05
1.00	20	SURCHARGED							
Pine_Main2		CONDUIT	0	12:15	5.71	1.00	40.36	28.17	1.43
1.00	14	SURCHARGED							
PineMain3		CONDUIT	0	12:15	6.34	1.00	40.36	28.32	1.43
0.84	0	> CAPACITY							
Weir-01		WEIR	0	00:00			0.00		
0.00									
Weir-02		WEIR	0	00:00			1.13		
0.62									
Weir-03		WEIR	0	12:03			0.56		
0.34									
Weir-04		WEIR	0	00:00			0.00		

0.00				
Weir-05	WEIR	0	12:05	0.51
0.32				
Weir-06	WEIR	0	12:00	0.71
0.40				
Weir-07	WEIR	0	12:15	2.21
0.76				
Weir-08	WEIR	0	12:04	0.68
0.39				
Weir-09	WEIR	0	12:06	0.56
0.34				
Weir-10	WEIR	0	12:05	0.62
0.36				
Weir-11	WEIR	0	12:01	2.53
1.00				
Weir-12	WEIR	0	12:06	2.02
0.92				
Weir-13	WEIR	0	12:01	0.80
0.96				

```

*****
Highest Flow Instability Indexes
*****
Link Weir-11 (5)
Link 10+13_OFF2.0RT-13.1RT (3)
Link 20+29-20+77 (3)
Link Laterall8 (3)
Link Laterall9 (3)

```

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WARNING 108 : Surcharge elevation defined for Junction Jun-48 is below junction maximum
elevation. Assumed surcharge elevation equal to maximum elevation.
WARNING 008 : Elevation drop exceeds length for Conduit Lateral-Pinel.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-10.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-13.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-16.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-22.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-34.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-37.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-38.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-53.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-64.

```

```

Analysis began on: Wed Dec 11 08:54:11 2024
Analysis ended on: Wed Dec 11 08:54:17 2024

```

Total elapsed time: 00:00:06

Autodesk® Storm and Sanitary Analysis 2016 - Version 13.4.304 (Build 0)

Project Description

File Name M24005 Proposed V.6 10-yr (west of Avista).SPF

Analysis Options

Flow Units cfs
Subbasin Hydrograph Method. SCS TR-55
Time of Concentration..... SCS TR-55
Link Routing Method Hydrodynamic
Storage Node Exfiltration.. Constant flow
Starting Date JUN-24-2024 00:00:00
Ending Date JUN-25-2024 00:00:00
Report Time Step 00:05:00

Element Count

Number of rain gages 1
Number of subbasins 20
Number of nodes 66
Number of links 63

Raingage Summary

Gage ID	Data Source	Data Type	Recording Interval	min
Rain Gage-01	TS-10	CUMULATIVE	6.00	

Subbasin Summary

Subbasin ID	Total Area acres	Peak Rate Factor
01-A	0.65	484.00
02-A	11.17	484.00
03-A	4.88	484.00
04-A	5.94	484.00
05-A	11.09	484.00
06-A	4.08	484.00
07-A	3.49	484.00
08-A	4.35	484.00
09-A	1.58	484.00
10-A	0.24	484.00
11-A	0.20	484.00
12-A	0.20	484.00
13-A	0.21	484.00
14-A	0.25	484.00
15-A	0.25	484.00
16-A	0.26	484.00
17-A	0.27	484.00
18-A	0.26	484.00

19-A 0.11 484.00
 20-A 0.15 484.00

 Node Summary

Node ID	Element Type	Invert Elevation ft	Maximum Elev. ft	Ponded Area ft ²	External Inflow
Inlet-01	JUNCTION	2099.72	2102.70	0.00	
Inlet-02	JUNCTION	2099.72	2102.43	0.00	
Inlet-04	JUNCTION	2102.50	2105.71	0.00	
Inlet-11	JUNCTION	2102.44	2105.62	0.00	
Inlet-12	JUNCTION	2102.71	2106.71	0.00	
Inlet-13	JUNCTION	2096.23	2099.83	0.00	
Inlet-14	JUNCTION	2094.90	2098.72	0.00	
Inlet-15	JUNCTION	2095.96	2099.61	0.00	
Inlet-16	JUNCTION	2096.42	2100.33	0.00	
Inlet-17	JUNCTION	2095.64	2099.26	0.00	
Inlet-18	JUNCTION	2089.06	2098.52	0.00	
Inlet-33	JUNCTION	0.00	0.67	0.00	
Jun-01	JUNCTION	2092.65	2098.79	0.00	
Jun-06	JUNCTION	2093.14	2106.33	0.00	
Jun-07	JUNCTION	2102.44	2105.70	0.00	
Jun-08	JUNCTION	2103.25	2106.56	0.00	
Jun-10	JUNCTION	2103.20	2105.70	0.00	
Jun-13	JUNCTION	2103.01	2107.17	0.00	
Jun-16	JUNCTION	2100.82	2102.82	0.00	
Jun-17	JUNCTION	2096.87	2103.65	0.00	
Jun-18	JUNCTION	2099.34	2102.62	0.00	
Jun-19	JUNCTION	2099.44	2102.77	0.00	
Jun-20	JUNCTION	2087.69	2099.82	0.00	
Jun-21	JUNCTION	2091.72	2106.71	0.00	
Jun-22	JUNCTION	2105.52	2106.52	0.00	
Jun-27	JUNCTION	2097.48	2101.50	0.00	
Jun-30	JUNCTION	2088.45	2098.50	0.00	
Jun-31	JUNCTION	2095.25	2106.69	0.00	
Jun-32	JUNCTION	2102.46	2106.83	0.00	
Jun-33	JUNCTION	2097.80	2106.70	0.00	
Jun-34	JUNCTION	2102.47	2105.77	0.00	
Jun-35	JUNCTION	2090.98	2097.65	0.00	
Jun-37	JUNCTION	2103.65	2105.15	0.00	
Jun-38	JUNCTION	2096.00	2107.00	0.00	
Jun-39	JUNCTION	2103.57	2106.86	0.00	
Jun-40	JUNCTION	2096.92	2106.86	0.00	
Jun-41	JUNCTION	2103.57	2106.57	0.00	
Jun-43	JUNCTION	2094.52	2108.25	0.00	
Jun-44	JUNCTION	2102.90	2107.54	0.00	
Jun-45	JUNCTION	2103.60	2107.12	0.00	
Jun-46	JUNCTION	2104.10	2107.11	0.00	
Jun-47	JUNCTION	2103.77	2106.77	0.00	
Jun-48	JUNCTION	2093.38	2106.99	0.00	
Jun-49	JUNCTION	2103.77	2106.48	0.00	
Jun-50	JUNCTION	2102.50	2106.33	0.00	
Jun-51	JUNCTION	2099.00	2103.15	0.00	
Jun-52	JUNCTION	2102.46	2106.69	0.00	
Jun-53	JUNCTION	2104.81	2105.81	0.00	
Jun-54	JUNCTION	2092.38	2106.71	0.00	
Jun-63	JUNCTION	2096.00	2107.82	0.00	
Jun-64	JUNCTION	2091.67	2103.60	0.00	
Out-01	OUTFALL	2087.00	2090.45	0.00	
Out-02	OUTFALL	2088.47	2089.97	0.00	
Stor-01	STORAGE	2102.10	2103.35	10.00	
Stor-10	STORAGE	2101.97	2103.22	10.00	
Stor-12	STORAGE	2104.19	2105.44	10.00	

Stor-13	STORAGE	2105.82	2106.09	10.00
Stor-14	STORAGE	2106.35	2106.61	10.00
Stor-15	STORAGE	2105.70	2106.43	10.00
Stor-16	STORAGE	2105.69	2106.42	10.00
Stor-17	STORAGE	2106.37	2107.62	10.00
Stor-18	STORAGE	2106.88	2107.22	10.00
Stor-19	STORAGE	2105.73	2106.98	10.00
Stor-20	STORAGE	2105.02	2106.27	10.00
Stor-21	STORAGE	2105.34	2105.60	10.00
Stor-22	STORAGE	2105.35	2105.61	10.00

Link Summary

Link ID	From Node	To Node	Element Type	Length ft	Slope %	Manning's Roughness
09+89-10+13	Inlet-12	Jun-64	CONDUIT	24.0	2.5417	0.0150
10+13_OFF2.0RT-13.1RT	Jun-21	Jun-64	CONDUIT	11.0	0.4545	0.0150
10+131-11+70	Jun-54	Jun-21	CONDUIT	157.0	0.4204	0.0150
11+70-13+44	Jun-06	Jun-54	CONDUIT	180.0	0.4222	0.0150
13+44-14+01	Jun-48	Jun-06	CONDUIT	57.0	0.4211	0.0150
14+01-16+96	Jun-43	Jun-48	CONDUIT	275.0	0.4145	0.0150
16+96-18+56	Jun-31	Jun-43	CONDUIT	181.0	0.4033	0.0150
18+56-20+29	Jun-63	Jun-31	CONDUIT	173.0	0.4335	0.0150
20+29-20+77	Jun-38	Jun-63	CONDUIT	48.0	0.4167	0.0150
20+77-22+51	Jun-40	Jun-38	CONDUIT	174.0	0.4138	0.0150
22+51-24+38	Jun-33	Jun-40	CONDUIT	204.0	0.4314	0.0150
24+38-27+57	Jun-51	Jun-33	CONDUIT	303.0	0.3960	0.0150
Avista_Pipe	Jun-27	Jun-01	CONDUIT	538.0	0.7454	0.0150
Avista_Pipe2	Jun-01	Jun-30	CONDUIT	6.5	64.6154	0.0150
Ditch1	Jun-22	Jun-53	CHANNEL	123.0	0.5772	0.0320
Ditch2	Jun-53	Jun-16	CHANNEL	170.9	2.3340	0.0320
Ditch3	Jun-50	Jun-16	CHANNEL	168.5	0.9970	0.0320
Ditch4	Jun-16	Jun-27	CHANNEL	474.5	0.7039	0.0320
Division_Main1	Jun-17	Jun-35	CONDUIT	356.0	1.6545	0.0150
Division_Main2	Jun-35	Out-02	CONDUIT	389.0	0.6452	0.0150
Laterall	Jun-07	Jun-54	CONDUIT	14.0	1.7143	0.0150
Laterall10	Jun-32	Jun-31	CONDUIT	15.0	1.7333	0.0150
Laterall11	Jun-52	Jun-31	CONDUIT	18.0	1.4444	0.0150
Laterall12	Jun-13	Jun-38	CONDUIT	19.9	0.8564	0.0150
Laterall13	Jun-41	Jun-40	CONDUIT	15.0	2.4667	0.0150
Laterall14	Jun-39	Jun-40	CONDUIT	10.0	3.7000	0.0150
Laterall15	Jun-37	Jun-08	CONDUIT	20.0	2.0000	0.0150
Laterall16	Jun-08	Inlet-04	CONDUIT	21.0	3.5714	0.0150
Laterall17	Inlet-04	Jun-33	CONDUIT	17.0	1.4706	0.0150
Laterall18	Inlet-02	Jun-51	CONDUIT	14.0	2.6429	0.0150
Laterall19	Inlet-01	Jun-51	CONDUIT	14.0	2.6429	0.0150
Lateral2	Inlet-11	Jun-54	CONDUIT	14.0	1.7143	0.0150
Lateral3	Jun-34	Jun-10	CONDUIT	33.0	0.8182	0.0150
Lateral4	Jun-10	Jun-06	CONDUIT	52.0	2.3077	0.0150
Lateral5	Jun-47	Jun-48	CONDUIT	14.0	1.9286	0.0150
Lateral6	Jun-49	Jun-48	CONDUIT	14.0	1.9286	0.0150
Lateral7	Jun-46	Jun-45	CONDUIT	25.0	2.0000	0.0150
Lateral8	Jun-45	Jun-44	CONDUIT	32.0	2.1875	0.0150
Lateral9	Jun-44	Jun-43	CONDUIT	14.0	2.8571	0.0150
Lateral-Division1	Jun-19	Jun-18	CONDUIT	41.7	0.4077	0.0150
Lateral-Division2	Jun-18	Jun-17	CONDUIT	50.0	4.9400	0.0150
Lateral-Pine1	Inlet-14	Inlet-33	CONDUIT	28.0	7471.1127	0.0150
Lateral-Pine2	Inlet-15	Inlet-14	CONDUIT	38.3	2.7662	0.0150
Lateral-Pine3	Inlet-15	Inlet-17	CONDUIT	45.0	0.7111	0.0150
Lateral-Pine4	Inlet-13	Inlet-15	CONDUIT	46.0	0.5870	0.0150
Lateral-Pine5	Inlet-16	Inlet-13	CONDUIT	40.0	0.4750	0.0150
Main_Lincoln	Jun-64	Jun-20	CONDUIT	1056.0	0.3769	0.0150
Pine_Main1	Inlet-18	Jun-30	CONDUIT	254.0	0.2402	0.0150

Pine_Main2	Jun-30	Jun-20	CONDUIT	320.0	0.2375	0.0150
Pine_Main3	Jun-20	Out-01	CONDUIT	100.0	0.2400	0.0150
Weir-01	Stor-17	Jun-45	WEIR			
Weir-02	Stor-22	Inlet-11	WEIR			
Weir-03	Stor-21	Jun-07	WEIR			
Weir-04	Stor-20	Jun-34	WEIR			
Weir-05	Stor-18	Jun-47	WEIR			
Weir-06	Stor-19	Jun-49	WEIR			
Weir-07	Stor-15	Jun-32	WEIR			
Weir-08	Stor-16	Jun-52	WEIR			
Weir-09	Stor-13	Jun-41	WEIR			
Weir-10	Stor-14	Jun-39	WEIR			
Weir-11	Stor-12	Jun-37	WEIR			
Weir-12	Stor-10	Inlet-02	WEIR			
Weir-13	Stor-01	Inlet-01	WEIR			

 Cross Section Summary

Link Design ID Flow Capacity	Shape	Depth/ Diameter ft	Width ft	No. of Barrels	Cross Sectional Area ft ²	Full Flow Hydraulic Radius ft
09+89-10+13	CIRCULAR	1.50	1.50	1	1.77	0.38
14.51						
10+13_OFF2.0RT-13.1RT	CIRCULAR	2.50	2.50	1	4.91	
0.63						
23.97						
10+131-11+70	CIRCULAR	2.50	2.50	1	4.91	0.63
23.05						
11+70-13+44	CIRCULAR	2.50	2.50	1	4.91	0.63
23.10						
13+44-14+01	CIRCULAR	2.50	2.50	1	4.91	0.63
23.07						
14+01-16+96	CIRCULAR	2.50	2.50	1	4.91	0.63
22.89						
16+96-18+56	CIRCULAR	2.50	2.50	1	4.91	0.63
22.58						
18+56-20+29	CIRCULAR	2.50	2.50	1	4.91	0.63
23.41						
20+29-20+77	CIRCULAR	2.50	2.50	1	4.91	0.63
22.95						
20+77-22+51	CIRCULAR	2.50	2.50	1	4.91	0.63
22.87						
22+51-24+38	CIRCULAR	2.50	2.50	1	4.91	0.63
23.35						
24+38-27+57	CIRCULAR	2.00	2.00	1	3.14	0.50
12.34						
Avista_Pipe	CIRCULAR	0.67	0.67	1	0.35	0.17
0.90						
Avista_Pipe2	CIRCULAR	1.00	1.00	1	0.79	0.25
24.82						
Ditch1	TRIANGULAR	1.00	6.00	1	3.00	0.47
6.44						
Ditch2	TRIANGULAR	1.00	40.00	1	20.00	0.50
89.31						
Ditch3	PARABOLIC	1.50	50.00	1	50.00	1.00
231.47						
Ditch4	TRAPEZOIDAL	2.00	72.00	1	92.00	1.28
421.47						

Division_Main1	CIRCULAR	1.50	1.50	1	1.77	0.38
11.71						
Division_Main2	CIRCULAR	1.50	1.50	1	1.77	0.38
7.31						
Lateral1	CIRCULAR	1.50	1.50	1	1.77	0.38
11.92						
Lateral10	CIRCULAR	1.50	1.50	1	1.77	0.38
11.99						
Lateral11	CIRCULAR	1.50	1.50	1	1.77	0.38
10.94						
Lateral12	CIRCULAR	2.50	2.50	1	4.91	0.63
32.90						
Lateral13	CIRCULAR	1.50	1.50	1	1.77	0.38
14.30						
Lateral14	CIRCULAR	1.50	1.50	1	1.77	0.38
17.51						
Lateral15	CIRCULAR	1.50	1.50	1	1.77	0.38
12.87						
Lateral16	CIRCULAR	1.50	1.50	1	1.77	0.38
17.20						
Lateral17	CIRCULAR	1.50	1.50	1	1.77	0.38
11.04						
Lateral18	CIRCULAR	1.50	1.50	1	1.77	0.38
14.80						
Lateral19	CIRCULAR	1.50	1.50	1	1.77	0.38
14.80						
Lateral2	CIRCULAR	1.50	1.50	1	1.77	0.38
11.92						
Lateral3	CIRCULAR	0.50	0.50	1	0.20	0.13
0.44						
Lateral4	CIRCULAR	1.50	1.50	1	1.77	0.38
13.83						
Lateral5	CIRCULAR	1.50	1.50	1	1.77	0.38
12.64						
Lateral6	CIRCULAR	1.50	1.50	1	1.77	0.38
12.64						
Lateral7	CIRCULAR	1.50	1.50	1	1.77	0.38
12.87						
Lateral8	CIRCULAR	1.50	1.50	1	1.77	0.38
13.46						
Lateral9	CIRCULAR	1.50	1.50	1	1.77	0.38
15.39						
Lateral-Division1	CIRCULAR	1.00	1.00	1	0.79	0.25
1.97						
Lateral-Division2	CIRCULAR	1.00	1.00	1	0.79	0.25
6.86						
Lateral-Pine1	CIRCULAR	0.67	0.67	1	0.35	0.17
90.52						
Lateral-Pine2	CIRCULAR	0.67	0.67	1	0.35	0.17
1.74						
Lateral-Pine3	CIRCULAR	1.50	1.50	1	1.77	0.38
7.68						
Lateral-Pine4	CIRCULAR	1.50	1.50	1	1.77	0.38
6.97						
Lateral-Pine5	CIRCULAR	1.50	1.50	1	1.77	0.38
6.27						
Main_Lincoln	CIRCULAR	3.00	3.00	1	7.07	0.75
35.49						
Pine_Main1	CIRCULAR	3.00	3.00	1	7.07	0.75
28.33						
Pine_Main2	CIRCULAR	3.00	3.00	1	7.07	0.75
28.17						
Pine_Main3	CIRCULAR	3.00	3.00	1	7.07	0.75
28.32						

***** Volume Depth

Runoff Quantity Continuity	acre-ft	inches
*****	-----	-----
Total Precipitation	10.886	2.632
Surface Runoff	0.595	0.144
Continuity Error (%)	-0.002	

Flow Routing Continuity	Volume acre-ft	Volume Mgallons
*****	-----	-----
External Inflow	0.000	0.000
External Outflow	5.591	1.822
Initial Stored Volume	0.012	0.004
Final Stored Volume	0.038	0.013
Continuity Error (%)	-0.000	

 Composite Curve Number Computations Report

 Subbasin 01-A

Soil/Surface Description	Area (acres)	Soil Group	CN
-----	-----	-----	-----
Paved roads with open ditches, 50% imp	0.65	D	93.00
Composite Area & Weighted CN	0.65		93.00

 Subbasin 02-A

Soil/Surface Description	Area (acres)	Soil Group	CN
-----	-----	-----	-----
1/4 acre lots, 38% impervious	11.17	D	87.00
Composite Area & Weighted CN	11.17		87.00

 Subbasin 03-A

Soil/Surface Description	Area (acres)	Soil Group	CN
-----	-----	-----	-----
1/4 acre lots, 38% impervious	4.88	D	87.00
Composite Area & Weighted CN	4.88		87.00

 Subbasin 04-A

Soil/Surface Description	Area (acres)	Soil Group	CN
-----	-----	-----	-----
1/4 acre lots, 38% impervious	5.94	D	87.00
Composite Area & Weighted CN	5.94		87.00

 Subbasin 05-A

Soil/Surface Description	Area (acres)	Soil Group	CN
-----	-----	-----	-----
1/4 acre lots, 38% impervious	11.09	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	11.09		87.00

Subbasin 06-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.08	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	4.08		87.00

Subbasin 07-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	3.49	D	87.00
-	0.00	-	0.00
Composite Area & Weighted CN	3.49		87.00

Subbasin 08-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	4.35	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	4.35		87.00

Subbasin 09-A

Soil/Surface Description	Area (acres)	Soil Group	CN
1/4 acre lots, 38% impervious	1.58	D	87.00
Paved roads with curbs & sewers	0.00	D	98.00
Composite Area & Weighted CN	1.58		87.00

Subbasin 10-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.24	D	98.00
Composite Area & Weighted CN	0.24		98.00

Subbasin 11-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.20	D	98.00
Composite Area & Weighted CN	0.20		98.00

Subbasin 12-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.20	D	98.00
Composite Area & Weighted CN	0.20		98.00

 Subbasin 13-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.21	D	98.00
Composite Area & Weighted CN	0.21		98.00

 Subbasin 14-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.25	D	98.00
Composite Area & Weighted CN	0.25		98.00

 Subbasin 15-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.25	D	98.00
Composite Area & Weighted CN	0.25		98.00

 Subbasin 16-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.26	D	98.00
Composite Area & Weighted CN	0.26		98.00

 Subbasin 17-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.27	D	98.00
Composite Area & Weighted CN	0.27		98.00

 Subbasin 18-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.26	D	98.00
Composite Area & Weighted CN	0.26		98.00

 Subbasin 19-A

Soil/Surface Description	Area (acres)	Soil Group	CN
Paved roads with curbs & sewers	0.11	D	98.00
Composite Area & Weighted CN	0.11		98.00

 Subbasin 20-A

Area Soil

Soil/Surface Description	(acres)	Group	CN
Paved roads with curbs & sewers	0.15	D	98.00
Composite Area & Weighted CN	0.15		98.00

 SCS TR-55 Time of Concentration Computations Report

Sheet Flow Equation

$$T_c = (0.007 * ((n * L_f)^{0.8})) / ((P^{0.5}) * (S_f^{0.4}))$$

Where:

Tc = Time of Concentration (hrs)
 n = Manning's Roughness
 Lf = Flow Length (ft)
 P = 2 yr, 24 hr Rainfall (inches)
 Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation

V = 16.1345 * (Sf^{0.5}) (unpaved surface)
 V = 20.3282 * (Sf^{0.5}) (paved surface)
 V = 15.0 * (Sf^{0.5}) (grassed waterway surface)
 V = 10.0 * (Sf^{0.5}) (nearly bare & untilled surface)
 V = 9.0 * (Sf^{0.5}) (cultivated straight rows surface)
 V = 7.0 * (Sf^{0.5}) (short grass pasture surface)
 V = 5.0 * (Sf^{0.5}) (woodland surface)
 V = 2.5 * (Sf^{0.5}) (forest w/heavy litter surface)
 Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)
 Lf = Flow Length (ft)
 V = Velocity (ft/sec)
 Sf = Slope (ft/ft)

Channel Flow Equation

V = (1.49 * (R^(2/3)) * (Sf^{0.5})) / n
 R = Aq / Wp
 Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hrs)
 Lf = Flow Length (ft)
 R = Hydraulic Radius (ft)
 Aq = Flow Area (ft²)
 Wp = Wetted Perimeter (ft)
 V = Velocity (ft/sec)
 Sf = Slope (ft/ft)
 n = Manning's Roughness

 Subbasin 01-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 100.00	0.00	
0.00	Slope (%): 1.46	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 1.01	0.00	
0.00	Computed Flow Time (minutes): 1.65	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 1315.00	0.00	
0.00	Slope (%): 0.82	0.00	
Unpaved	Surface Type: Unpaved	Unpaved	
0.00	Velocity (ft/sec): 1.46	0.00	
0.00	Computed Flow Time (minutes): 15.01	0.00	

=====
 Total TOC (minutes): 16.66
 =====

 Subbasin 02-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 50.00	0.00	
0.00	Slope (%): 2.89	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 1.15	0.00	
0.00	Computed Flow Time (minutes): 0.72	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 1060.00	0.00	
0.00	Slope (%): 1.09	0.00	
Unpaved	Surface Type: Unpaved	Unpaved	

0.00 Velocity (ft/sec): 1.68 0.00
 0.00 Computed Flow Time (minutes): 10.52 0.00

Channel Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Manning's Roughness:	0.01	0.00	
0.00 Flow Length (ft):	430.00	0.00	
0.00 Channel Slope (%):	0.50	0.00	
0.00 Cross Section Area (ft ²):	0.79	0.00	
0.00 Wetted Perimeter (ft):	0.26	0.00	
0.00 Velocity (ft/sec):	22.10	0.00	
0.00 Computed Flow Time (minutes):	0.32	0.00	
=====			
	Total TOC (minutes):	11.56	
=====			

 Subbasin 03-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Manning's Roughness:	0.01	0.00	
0.00 Flow Length (ft):	200.00	0.00	
0.00 Slope (%):	1.40	0.00	
1.90 2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00 Velocity (ft/sec):	1.14	0.00	
0.00 Computed Flow Time (minutes):	2.93	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00 Flow Length (ft):	1446.00	0.00	
0.00 Slope (%):	0.91	0.00	
Unpaved Surface Type:	Grassed waterway	Unpaved	
0.00 Velocity (ft/sec):	1.43	0.00	
0.00 Computed Flow Time (minutes):	16.85	0.00	
=====			

Total TOC (minutes): 19.78

=====

Subbasin 04-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 160.00	0.00	
0.00	Slope (%): 0.59	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.77	0.00	
0.00	Computed Flow Time (minutes): 3.46	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 1232.00	0.00	
0.00	Slope (%): 0.82	0.00	
Unpaved	Surface Type: Paved	Unpaved	
0.00	Velocity (ft/sec): 1.84	0.00	
0.00	Computed Flow Time (minutes): 11.16	0.00	

Total TOC (minutes): 14.62

=====

Subbasin 05-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 160.00	0.00	
0.00	Slope (%): 0.35	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.63	0.00	
0.00	Computed Flow Time (minutes): 4.26	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 35.00	0.00	
0.00	Slope (%): 12.20	0.00	
Unpaved	Surface Type: Grassed waterway	Unpaved	
0.00	Velocity (ft/sec): 5.24	0.00	
0.00	Computed Flow Time (minutes): 0.11	0.00	

Channel Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.27	0.00	
0.00	Flow Length (ft): 1155.00	0.00	
0.00	Channel Slope (%): 0.08	0.00	
0.00	Cross Section Area (ft ²): 85.00	0.00	
0.00	Wetted Perimeter (ft): 31.30	0.00	
0.00	Velocity (ft/sec): 0.30	0.00	
0.00	Computed Flow Time (minutes): 63.36	0.00	

	Total TOC (minutes): 67.73		
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Subbasin 06-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 120.00	0.00	
0.00	Slope (%): 0.61	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.74	0.00	
0.00	Computed Flow Time (minutes): 2.71	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
	Flow Length (ft): 968.00	0.00	

0.00	Slope (%):	0.62	0.00
0.00	Surface Type:	Paved	Unpaved
Unpaved	Velocity (ft/sec):	1.60	0.00
0.00	Computed Flow Time (minutes):	10.08	0.00
0.00			

=====

	Total TOC (minutes):	12.79	
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 Subbasin 07-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	50.00	0.00	
0.00	Slope (%):	4.64	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	1.39	0.00	
0.00	Computed Flow Time (minutes):	0.60	0.00	
0.00				

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	937.00	0.00	
0.00	Slope (%):	0.48	0.00	
0.00	Surface Type:	Unpaved	Unpaved	
Unpaved	Velocity (ft/sec):	1.12	0.00	
0.00	Computed Flow Time (minutes):	13.94	0.00	
0.00				

=====

	Total TOC (minutes):	14.54	
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 Subbasin 08-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	

0.00	Flow Length (ft):	257.00	0.00
0.00	Slope (%):	1.32	0.00
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90
1.90	Velocity (ft/sec):	1.17	0.00
0.00	Computed Flow Time (minutes):	3.66	0.00
0.00			

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	896.00	0.00	
0.00	Slope (%):	0.78	0.00	
0.00	Surface Type:	Paved	Unpaved	
Unpaved	Velocity (ft/sec):	1.80	0.00	
0.00	Computed Flow Time (minutes):	8.30	0.00	
0.00				

	Total TOC (minutes):	11.96		
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Subbasin 09-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	55.00	0.00	
0.00	Slope (%):	1.26	0.00	
0.00	2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90	Velocity (ft/sec):	0.84	0.00	
0.00	Computed Flow Time (minutes):	1.09	0.00	
0.00				

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C	Flow Length (ft):	305.00	0.00	
0.00	Slope (%):	1.60	0.00	
0.00	Surface Type:	Unpaved	Unpaved	
Unpaved	Velocity (ft/sec):	2.04	0.00	
0.00	Computed Flow Time (minutes):	2.49	0.00	

0.00

Channel Flow Computations

	Subarea A	Subarea B	Subarea
C			
Manning's Roughness:	0.27	0.00	
0.00			
Flow Length (ft):	300.00	0.00	
0.00			
Channel Slope (%):	1.11	0.00	
0.00			
Cross Section Area (ft ²):	2.00	0.00	
0.00			
Wetted Perimeter (ft):	8.50	0.00	
0.00			
Velocity (ft/sec):	0.22	0.00	
0.00			
Computed Flow Time (minutes):	22.56	0.00	
0.00			
=====			
Total TOC (minutes):	26.14		
=====			

Subbasin 10-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
Manning's Roughness:	0.01	0.00	
0.00			
Flow Length (ft):	22.00	0.00	
0.00			
Slope (%):	1.52	0.00	
0.00			
2 yr, 24 hr Rainfall (in):	1.90	1.90	
1.90			
Velocity (ft/sec):	0.76	0.00	
0.00			
Computed Flow Time (minutes):	0.48	0.00	
0.00			

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
Flow Length (ft):	173.00	0.00	
0.00			
Slope (%):	0.83	0.00	
0.00			
Surface Type:	Paved	Unpaved	
Unpaved			
Velocity (ft/sec):	1.85	0.00	
0.00			
Computed Flow Time (minutes):	1.56	0.00	
0.00			
=====			
Total TOC (minutes):	2.04		
=====			

 Subbasin 11-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	25.00	0.00
0.00	Slope (%):	1.50	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.77	0.00
0.00	Computed Flow Time (minutes):	0.54	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	160.50	0.00
0.00	Slope (%):	1.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	2.49	0.00
0.00	Computed Flow Time (minutes):	1.07	0.00

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	Total TOC (minutes):	1.61	
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 Subbasin 12-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	20.00	0.00
0.00	Slope (%):	0.70	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.54	0.00
0.00	Computed Flow Time (minutes):	0.61	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	236.50	0.00
0.00	Slope (%):	0.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	1.44	0.00
0.00	Computed Flow Time (minutes):	2.74	0.00

=====
 Total TOC (minutes): 3.35
 =====

 Subbasin 13-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness:	0.01	0.00
0.00	Flow Length (ft):	20.00	0.00
0.00	Slope (%):	1.01	0.00
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	0.63	0.00
0.00	Computed Flow Time (minutes):	0.53	0.00

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft):	234.00	0.00
0.00	Slope (%):	0.50	0.00
Unpaved	Surface Type:	Paved	Unpaved
0.00	Velocity (ft/sec):	1.44	0.00
0.00	Computed Flow Time (minutes):	2.71	0.00

=====
 Total TOC (minutes): 3.24
 =====

 Subbasin 14-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 28.00	0.00	
0.00	Slope (%): 1.27	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.74	0.00	
0.00	Computed Flow Time (minutes): 0.63	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 176.00	0.00	
0.00	Slope (%): 1.01	0.00	
Unpaved	Surface Type: Paved	Unpaved	
0.00	Velocity (ft/sec): 2.04	0.00	
0.00	Computed Flow Time (minutes): 1.44	0.00	

=====
 Total TOC (minutes): 2.07
 =====

 Subbasin 15-A

Sheet Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 25.00	0.00	
0.00	Slope (%): 1.24	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.72	0.00	
0.00	Computed Flow Time (minutes): 0.58	0.00	

Shallow Concentrated Flow Computations

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 181.00	0.00	
0.00	Slope (%): 1.00	0.00	
Unpaved	Surface Type: Paved	Unpaved	

0.00	Velocity (ft/sec):	2.03	0.00
0.00	Computed Flow Time (minutes):	1.49	0.00

=====
 Total TOC (minutes): 2.07
 =====

 Subbasin 16-A

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	22.00	0.00	
0.00	Slope (%):	1.11	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.67	0.00	
0.00	Computed Flow Time (minutes):	0.55	0.00	

 Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	207.00	0.00	
0.00	Slope (%):	0.43	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	1.33	0.00	
0.00	Computed Flow Time (minutes):	2.59	0.00	

=====
 Total TOC (minutes): 3.14
 =====

 Subbasin 17-A

 Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	17.00	0.00	
0.00	Slope (%):	5.40	0.00	

1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90
0.00	Velocity (ft/sec):	1.19	0.00
0.00	Computed Flow Time (minutes):	0.24	0.00

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	240.00	0.00	
0.00	Slope (%):	0.34	0.00	
Unpaved	Surface Type:	Grassed waterway	Unpaved	
0.00	Velocity (ft/sec):	0.87	0.00	
0.00	Computed Flow Time (minutes):	4.60	0.00	

=====
 Total TOC (minutes): 4.83
 =====

 Subbasin 18-A

Sheet Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Manning's Roughness:	0.01	0.00	
0.00	Flow Length (ft):	25.50	0.00	
0.00	Slope (%):	1.00	0.00	
1.90	2 yr, 24 hr Rainfall (in):	1.90	1.90	
0.00	Velocity (ft/sec):	0.66	0.00	
0.00	Computed Flow Time (minutes):	0.64	0.00	

Shallow Concentrated Flow Computations

		Subarea A	Subarea B	Subarea
C				
0.00	Flow Length (ft):	348.00	0.00	
0.00	Slope (%):	1.24	0.00	
Unpaved	Surface Type:	Paved	Unpaved	
0.00	Velocity (ft/sec):	2.26	0.00	
0.00	Computed Flow Time (minutes):	2.57	0.00	

=====
 Total TOC (minutes): 3.21
 =====

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=====
-----
Subbasin 19-A
-----

Sheet Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 25.00	0.00	
0.00	Slope (%): 1.01	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.66	0.00	
0.00	Computed Flow Time (minutes): 0.63	0.00	

```

-----
Shallow Concentrated Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Flow Length (ft): 173.00	0.00	
0.00	Slope (%): 1.19	0.00	
Unpaved	Surface Type: Paved	Unpaved	
0.00	Velocity (ft/sec): 2.22	0.00	
0.00	Computed Flow Time (minutes): 1.30	0.00	

```

=====
Total TOC (minutes): 1.93
=====

```

```

-----
Subbasin 20-A
-----

Sheet Flow Computations
-----

```

	Subarea A	Subarea B	Subarea
C			
0.00	Manning's Roughness: 0.01	0.00	
0.00	Flow Length (ft): 20.00	0.00	
0.00	Slope (%): 2.23	0.00	
1.90	2 yr, 24 hr Rainfall (in): 1.90	1.90	
0.00	Velocity (ft/sec): 0.87	0.00	
0.00	Computed Flow Time (minutes): 0.38	0.00	

```

-----
Shallow Concentrated Flow Computations
-----

```

```

-----
C                               Subarea A           Subarea B           Subarea
0.00   Flow Length (ft):         161.00             0.00
0.00   Slope (%):                1.29               0.00
Unpaved Surface Type:           Paved              Unpaved
0.00   Velocity (ft/sec):        2.31               0.00
0.00   Computed Flow Time (minutes): 1.16              0.00
=====
Total TOC (minutes):           1.55
=====

```

Subbasin Runoff Summary

```

-----
Subbasin      Total      Total      Peak      Weighted      Time of
ID            Precip    Runoff    Runoff    Curve         Concentration
              in       in       cfs      Number        days   hh:mm:ss
-----
01-A          2.60     1.87     1.42     93.000        0 00:16:39
02-A          2.60     1.40    20.90     87.000        0 00:11:33
03-A          2.60     1.40     7.53     87.000        0 00:19:46
04-A          2.60     1.40    10.39     87.000        0 00:14:37
05-A          2.60     1.40     7.80     87.000        0 01:07:43
06-A          2.60     1.40     7.45     87.000        0 00:12:47
07-A          2.60     1.40     6.11     87.000        0 00:14:32
08-A          2.60     1.40     8.08     87.000        0 00:11:57
09-A          2.60     1.40     2.11     87.000        0 00:26:08
10-A          2.60     2.37     0.82     98.000        0 00:05:00
11-A          2.60     2.37     0.67     98.000        0 00:05:00
12-A          2.60     2.37     0.67     98.000        0 00:05:00
13-A          2.60     2.37     0.71     98.000        0 00:05:00
14-A          2.60     2.37     0.84     98.000        0 00:05:00
15-A          2.60     2.37     0.84     98.000        0 00:05:00
16-A          2.60     2.37     0.88     98.000        0 00:05:00
17-A          2.60     2.37     0.90     98.000        0 00:05:00
18-A          2.60     2.37     0.88     98.000        0 00:05:00
19-A          2.60     2.36     0.37     98.000        0 00:05:00
20-A          2.60     2.37     0.49     98.000        0 00:05:00
-----

```

Node Depth Summary

```

-----
Node          Average      Maximum      Maximum      Time of Max      Total      Total      Retention
ID            Depth        Depth        HGL          Occurrence      Flooded    Time        Time
              Attained    Attained    Attained    days  hh:mm      Volume     Flooded     Time
              ft          ft          ft          days  hh:mm      acre-in    minutes     hh:mm:ss
-----
Inlet-01      0.21        2.98        2102.70      0 12:08         0.26        9        0:00:00
Inlet-02      0.32        2.71        2102.43      0 12:03         3.06       19        0:00:00
Inlet-04      0.32        1.77        2104.27      0 12:07          0          0        0:00:00
Inlet-11      0.44        3.18        2105.62      0 12:01         0.35        9        0:00:00
Inlet-12      0.08        0.37        2103.08      0 12:10          0          0        0:00:00
-----

```

Inlet-13	0.00	0.00	2096.23	0	00:00	0	0	0:00:00
Inlet-14	0.00	0.00	2094.90	0	00:00	0	0	0:00:00
Inlet-15	0.00	0.00	2095.96	0	00:00	0	0	0:00:00
Inlet-16	0.00	0.00	2096.42	0	00:00	0	0	0:00:00
Inlet-17	0.00	0.00	2095.64	0	00:00	0	0	0:00:00
Inlet-18	0.16	1.83	2090.89	0	12:14	0	0	0:00:00
Inlet-33	0.00	0.00	0.00	0	00:00	0	0	0:00:00
Jun-01	0.00	0.01	2092.66	0	01:40	0	0	0:00:00
Jun-06	1.09	8.75	2101.89	0	12:11	0	0	0:00:00
Jun-07	0.06	0.26	2102.70	0	12:03	0	0	0:00:00
Jun-08	0.26	1.80	2105.05	0	12:07	0	0	0:00:00
Jun-10	0.00	0.00	2103.20	0	00:00	0	0	0:00:00
Jun-13	0.00	0.00	2103.01	0	00:00	0	0	0:00:00
Jun-16	0.00	0.02	2100.84	0	00:08	0	0	0:00:00
Jun-17	0.00	0.00	2096.87	0	00:00	0	0	0:00:00
Jun-18	0.00	0.00	2099.34	0	00:00	0	0	0:00:00
Jun-19	0.00	0.00	2099.44	0	00:00	0	0	0:00:00
Jun-20	0.94	3.20	2090.89	0	12:14	0	0	0:00:00
Jun-21	1.07	5.98	2097.70	0	12:12	0	0	0:00:00
Jun-22	0.01	1.00	2106.52	0	00:00	0	0	0:00:00
Jun-27	0.02	0.03	2097.51	0	01:39	0	0	0:00:00
Jun-30	0.32	2.44	2090.89	0	12:13	0	0	0:00:00
Jun-31	0.98	8.13	2103.38	0	12:12	0	0	0:00:00
Jun-32	0.15	0.95	2103.41	0	12:12	0	0	0:00:00
Jun-33	0.64	5.72	2103.52	0	12:13	0	0	0:00:00
Jun-34	0.00	0.00	2102.47	0	00:00	0	0	0:00:00
Jun-35	0.00	0.00	2090.98	0	00:00	0	0	0:00:00
Jun-37	0.22	1.50	2105.15	0	12:03	0.30	9	0:00:00
Jun-38	1.15	7.46	2103.46	0	12:12	0	0	0:00:00
Jun-39	0.05	0.23	2103.80	0	12:05	0	0	0:00:00
Jun-40	0.86	6.60	2103.52	0	12:12	0	0	0:00:00
Jun-41	0.37	1.16	2104.73	0	12:40	0	0	0:00:00
Jun-43	1.05	8.73	2103.25	0	12:12	0	0	0:00:00
Jun-44	0.24	1.35	2104.25	0	12:05	0	0	0:00:00
Jun-45	0.24	1.55	2105.15	0	12:05	0	0	0:00:00
Jun-46	0.26	1.84	2105.94	0	12:05	0	0	0:00:00
Jun-47	0.24	1.22	2104.99	0	12:10	0	0	0:00:00
Jun-48	1.17	9.14	2102.52	0	12:11	0	0	0:00:00
Jun-49	0.06	0.29	2104.06	0	12:00	0	0	0:00:00
Jun-50	0.00	0.00	2102.50	0	00:00	0	0	0:00:00
Jun-51	0.43	3.74	2102.74	0	12:13	0	0	0:00:00
Jun-52	0.08	0.92	2103.38	0	12:12	0	0	0:00:00
Jun-53	0.00	0.25	2105.06	0	00:02	0	0	0:00:00
Jun-54	1.14	8.34	2100.72	0	12:11	0	0	0:00:00
Jun-63	0.91	7.44	2103.44	0	12:12	0	0	0:00:00
Jun-64	0.85	4.89	2096.56	0	12:12	0	0	0:00:00
Out-01	0.00	0.00	2087.00	0	00:00	0	0	0:00:00
Out-02	0.00	0.00	2088.47	0	00:00	0	0	0:00:00
Stor-01	0.05	0.60	2102.70	0	12:09	0	0	0:00:00
Stor-10	0.04	0.46	2102.43	0	12:04	0	0	0:00:00
Stor-12	0.04	0.96	2105.15	0	12:04	0	0	0:00:00
Stor-13	0.03	0.17	2105.99	0	12:06	0	0	0:00:00
Stor-14	0.03	0.18	2106.53	0	12:05	0	0	0:00:00
Stor-15	0.09	0.38	2106.08	0	12:15	0	0	0:00:00
Stor-16	0.03	0.19	2105.88	0	12:04	0	0	0:00:00
Stor-17	0.00	0.00	2106.37	0	00:00	0	0	0:00:00
Stor-18	0.03	0.16	2107.04	0	12:05	0	0	0:00:00
Stor-19	0.03	0.20	2105.93	0	12:00	0	0	0:00:00
Stor-20	0.00	0.00	2105.02	0	00:00	0	0	0:00:00
Stor-21	0.03	0.17	2105.51	0	12:03	0	0	0:00:00
Stor-22	0.04	0.31	2105.66	0	12:02	0.00	3	0:00:00

Node Flow Summary

Node ID	Element Type	Maximum Lateral Inflow cfs	Peak Inflow cfs	Time of Peak Inflow Occurrence days hh:mm	Maximum Flooding Overflow cfs	Time of Peak Flooding Occurrence days hh:mm
Inlet-01	JUNCTION	0.00	3.80	0 12:02	2.51	0 12:13
Inlet-02	JUNCTION	8.31	13.92	0 12:09	13.92	0 12:09
Inlet-04	JUNCTION	0.00	10.15	0 12:07	0.00	
Inlet-11	JUNCTION	20.85	21.48	0 12:05	4.43	0 12:05
Inlet-12	JUNCTION	1.39	1.39	0 12:10	0.00	
Inlet-13	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-14	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-15	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-16	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-17	JUNCTION	0.00	0.00	0 00:00	0.00	
Inlet-18	JUNCTION	0.00	0.90	0 12:03	0.00	
Inlet-33	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-01	JUNCTION	0.00	0.00	0 01:40	0.00	
Jun-06	JUNCTION	0.00	25.54	0 12:18	0.00	
Jun-07	JUNCTION	0.00	0.56	0 12:03	0.00	
Jun-08	JUNCTION	5.85	10.13	0 12:06	0.00	
Jun-10	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-13	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-16	JUNCTION	0.00	0.70	0 00:03	0.00	
Jun-17	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-18	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-19	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-20	JUNCTION	0.00	40.50	0 12:12	0.00	
Jun-21	JUNCTION	0.00	40.72	0 12:07	0.00	
Jun-22	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-27	JUNCTION	0.00	0.07	0 00:20	0.00	
Jun-30	JUNCTION	0.00	2.83	0 12:02	0.00	
Jun-31	JUNCTION	0.00	17.37	0 12:26	0.00	
Jun-32	JUNCTION	0.00	2.21	0 12:15	0.00	
Jun-33	JUNCTION	0.00	17.32	0 12:02	0.00	
Jun-34	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-35	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-37	JUNCTION	7.35	7.36	0 12:04	3.09	0 12:05
Jun-38	JUNCTION	0.00	15.16	0 12:26	0.00	
Jun-39	JUNCTION	0.00	0.62	0 12:05	0.00	
Jun-40	JUNCTION	0.00	17.27	0 12:00	0.00	
Jun-41	JUNCTION	7.80	7.94	0 12:40	0.00	
Jun-43	JUNCTION	0.00	21.74	0 12:05	0.00	
Jun-44	JUNCTION	0.00	9.96	0 12:05	0.00	
Jun-45	JUNCTION	0.00	9.96	0 12:05	0.00	
Jun-46	JUNCTION	9.96	9.96	0 12:05	0.00	
Jun-47	JUNCTION	7.52	7.93	0 12:10	0.00	
Jun-48	JUNCTION	0.00	26.61	0 12:05	0.00	
Jun-49	JUNCTION	0.00	0.71	0 12:00	0.00	
Jun-50	JUNCTION	0.00	0.00	0 00:00	0.00	
Jun-51	JUNCTION	0.00	9.12	0 12:13	0.00	
Jun-52	JUNCTION	0.00	0.68	0 12:04	0.00	
Jun-53	JUNCTION	0.00	2.53	0 00:00	0.00	
Jun-54	JUNCTION	0.00	41.76	0 12:06	0.00	
Jun-63	JUNCTION	0.00	15.62	0 12:26	0.00	
Jun-64	JUNCTION	0.00	42.11	0 12:07	0.00	
Out-01	OUTFALL	0.00	40.30	0 12:14	0.00	
Out-02	OUTFALL	0.00	0.00	0 00:00	0.00	
Stor-01	STORAGE	0.88	3.41	0 12:02	0.00	
Stor-10	STORAGE	0.49	2.81	0 12:03	0.00	
Stor-12	STORAGE	0.00	2.30	0 12:03	0.00	
Stor-13	STORAGE	0.90	0.90	0 12:00	0.00	
Stor-14	STORAGE	0.88	0.88	0 12:00	0.00	
Stor-15	STORAGE	2.22	2.22	0 12:14	0.00	
Stor-16	STORAGE	0.84	0.84	0 12:00	0.00	
Stor-17	STORAGE	0.00	0.00	0 00:00	0.00	

Stor-18	STORAGE	0.67	0.67	0	12:00	0.00	
Stor-19	STORAGE	0.71	0.71	0	12:00	0.00	
Stor-20	STORAGE	0.00	0.00	0	00:00	0.00	
Stor-21	STORAGE	0.67	0.67	0	12:00	0.00	
Stor-22	STORAGE	0.82	1.48	0	12:01	0.21	0 12:02

Storage Node Summary

Storage Node ID	Maximum Total	Maximum Ponded Volume	Maximum Ponded Volume	Time of Max Ponded	Average Ponded Volume	Average Ponded Volume	Maximum Storage Node Outflow
Exfiltration Rate	Exfiltrated Volume	1000 ft ³	(%)	days hh:mm	1000 ft ³	(%)	cfs
cfm	1000 ft ³						
Stor-01	0.00	0.452	48	0 12:09	0.037	4	1.25
Stor-10	0.00	0.346	37	0 12:04	0.031	3	1.14
Stor-12	0.00	0.721	77	0 12:04	0.031	3	1.85
Stor-13	0.00	0.560	64	0 12:06	0.111	13	0.56
Stor-14	0.00	0.452	70	0 12:05	0.083	13	0.62
Stor-15	0.00	0.553	52	0 12:15	0.132	12	2.21
Stor-16	0.00	0.295	26	0 12:04	0.048	4	0.68
Stor-17	0.00	0.000	0	0 00:00	0.000	0	0.00
Stor-18	0.00	0.281	48	0 12:05	0.048	8	0.51
Stor-19	0.00	0.000	16	0 12:00	0.000	2	0.71
Stor-20	0.00	0.000	0	0 00:00	0.000	0	0.00
Stor-21	0.00	0.209	66	0 12:03	0.033	11	0.56
Stor-22	0.00	0.433	100	0 12:02	0.059	14	1.13

Outfall Loading Summary

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
Out-01	99.79	6.87	40.30
Out-02	0.00	0.00	0.00
System	49.89	6.87	40.30

 Link Flow Summary

Link ID Ratio of Maximum Flow Depth	Total Time Surcharged minutes	Element Reported Type Condition	Time of Peak Flow Occurrence days hh:mm	Maximum Velocity Attained ft/sec	Length Factor	Peak Flow during Analysis cfs	Design Flow Capacity cfs	Ratio of Maximum /Design Flow
09+89-10+13 0.23	0	CONDUIT Calculated	0 12:10	4.62	1.00	1.39	14.51	0.10
10+13_OFF2.0RT-13.1RT 1.00	23	CONDUIT SURCHARGED	0 12:07	8.30	1.00	40.74	23.97	1.70
10+131-11+70 1.00	39	CONDUIT SURCHARGED	0 12:07	8.30	1.00	40.72	23.05	1.77
11+70-13+44 1.00	45	CONDUIT SURCHARGED	0 12:19	5.36	1.00	26.31	23.10	1.14
13+44-14+01 1.00	46	CONDUIT SURCHARGED	0 12:18	5.20	1.00	25.54	23.07	1.11
14+01-16+96 1.00	43	CONDUIT SURCHARGED	0 12:26	4.38	1.00	21.52	22.89	0.94
16+96-18+56 1.00	40	CONDUIT SURCHARGED	0 12:26	3.91	1.00	18.08	22.58	0.80
18+56-20+29 1.00	38	CONDUIT SURCHARGED	0 12:26	3.82	1.00	15.63	23.41	0.67
20+29-20+77 1.00	37	CONDUIT SURCHARGED	0 12:26	3.91	1.00	15.62	22.95	0.68
20+77-22+51 1.00	35	CONDUIT SURCHARGED	0 12:26	3.92	1.00	15.16	22.87	0.66
22+51-24+38 1.00	30	CONDUIT SURCHARGED	0 12:00	3.94	1.00	14.82	23.35	0.63
24+38-27+57 1.00	27	CONDUIT SURCHARGED	0 12:13	3.15	1.00	9.12	12.34	0.74
Avista_Pipe 0.03	0	CONDUIT Calculated	0 01:40	0.75	1.00	0.00	0.90	0.00
Avista_Pipe2 0.50	0	CONDUIT Calculated	0 00:09	1.36	1.00	0.03	24.82	0.00
Ditch1 0.51	0	CHANNEL Calculated	0 00:00	3.72	1.00	2.53	6.44	0.39
Ditch2 0.13	0	CHANNEL Calculated	0 00:03	3.04	1.00	0.70	89.31	0.01
Ditch3 0.01	0	CHANNEL Calculated	0 00:00	0.00	1.00	0.00	231.47	0.00
Ditch4 0.01	0	CHANNEL Calculated	0 00:20	0.24	1.00	0.07	421.47	0.00
Division_Main1 0.00	0	CONDUIT Calculated	0 00:00	0.00	1.00	0.00	11.71	0.00
Division_Main2 0.00	0	CONDUIT Calculated	0 00:00	0.00	1.00	0.00	7.31	0.00
Lateral1 0.16	0	CONDUIT Calculated	0 12:03	3.08	1.00	0.56	11.92	0.05
Lateral10 0.71	0	CONDUIT Calculated	0 12:15	4.32	1.00	2.26	11.99	0.19
Lateral11 0.70	0	CONDUIT Calculated	0 12:04	3.09	1.00	0.68	10.94	0.06
Lateral12 0.00	0	CONDUIT Calculated	0 00:00	0.00	1.00	0.00	32.90	0.00

0.65	Lateral13	0	Calculated	CONDUIT	0	12:40	6.50	1.00	7.94	14.30	0.56
0.17	Lateral14	0	Calculated	CONDUIT	0	12:05	4.02	1.00	0.62	17.51	0.04
1.00	Lateral15	9	SURCHARGED	CONDUIT	0	12:16	3.67	1.00	5.44	12.87	0.42
1.00	Lateral16	13	SURCHARGED	CONDUIT	0	12:07	5.74	1.00	10.15	17.20	0.59
0.92	Lateral17	0	Calculated	CONDUIT	0	12:06	6.16	1.00	10.13	11.04	0.92
1.00	Lateral18	26	SURCHARGED	CONDUIT	0	12:02	6.19	1.00	7.80	14.80	0.53
1.00	Lateral19	26	SURCHARGED	CONDUIT	0	12:02	2.74	1.00	2.99	14.80	0.20
1.00	Lateral2	2	SURCHARGED	CONDUIT	0	12:01	9.72	1.00	17.09	11.92	1.43
0.00	Lateral3	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	0.44	0.00
0.00	Lateral4	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	13.83	0.00
0.69	Lateral5	0	Calculated	CONDUIT	0	12:10	6.05	1.00	7.93	12.64	0.63
0.18	Lateral6	0	Calculated	CONDUIT	0	12:00	3.40	1.00	0.71	12.64	0.06
1.00	Lateral7	5	SURCHARGED	CONDUIT	0	12:05	5.64	1.00	9.96	12.87	0.77
0.95	Lateral8	0	Calculated	CONDUIT	0	12:05	5.74	1.00	9.96	13.46	0.74
0.74	Lateral9	0	Calculated	CONDUIT	0	12:05	7.06	1.00	9.96	15.39	0.65
0.00	Lateral-Division1	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	1.97	0.00
0.00	Lateral-Division2	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	6.86	0.00
0.00	Lateral-Pine1	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	90.52	0.00
0.00	Lateral-Pine2	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	1.74	0.00
0.00	Lateral-Pine3	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	7.68	0.00
0.00	Lateral-Pine4	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	6.97	0.00
0.00	Lateral-Pine5	0	Calculated	CONDUIT	0	00:00	0.00	1.00	0.00	6.27	0.00
1.00	Main_Lincoln	12	SURCHARGED	CONDUIT	0	12:12	5.73	1.00	40.50	35.49	1.14
0.71	Pine_Main1	0	Calculated	CONDUIT	0	12:03	0.64	1.00	0.90	28.33	0.03
0.91	Pine_Main2	0	Calculated	CONDUIT	0	12:02	0.73	1.00	2.83	28.17	0.10
0.84	Pine_Main3	0	> CAPACITY	CONDUIT	0	12:14	6.33	1.00	40.30	28.32	1.42
0.00	Weir-01			WEIR	0	00:00			0.00		
0.62	Weir-02			WEIR	0	00:00			1.13		
0.34	Weir-03			WEIR	0	12:03			0.56		
0.00	Weir-04			WEIR	0	00:00			0.00		
0.32	Weir-05			WEIR	0	12:05			0.51		
0.40	Weir-06			WEIR	0	12:00			0.71		
0.76	Weir-07			WEIR	0	12:15			2.21		
	Weir-08			WEIR	0	12:04			0.68		

0.39				
Weir-09	WEIR	0	12:06	0.56
0.34				
Weir-10	WEIR	0	12:05	0.62
0.36				
Weir-11	WEIR	0	12:03	2.30
1.00				
Weir-12	WEIR	0	12:03	2.40
0.92				
Weir-13	WEIR	0	12:02	2.63
1.00				

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*****
Highest Flow Instability Indexes
*****
Link Weir-11 (3)
Link Lateral2 (2)
Link 10+13_OFF2.0RT-13.1RT (2)
Link Lateral14 (1)
Link Lateral19 (1)

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WARNING 108 : Surcharge elevation defined for Junction Jun-48 is below junction maximum
elevation. Assumed surcharge elevation equal to maximum elevation.
WARNING 008 : Elevation drop exceeds length for Conduit Lateral-Pinel.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-10.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-13.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-16.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-22.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-37.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-38.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-53.
WARNING 002 : Max/rim elevation (depth) increased to account for connecting conduit height
dimensions for Node Jun-64.

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Analysis began on: Wed Dec 11 08:12:31 2024
Analysis ended on: Wed Dec 11 08:12:37 2024
Total elapsed time: 00:00:06

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AGENDA REPORT

City Council Meeting

TODAY'S DATE: January 28, 2025

MEETING DATE: February 19, 2025

TO: MAYOR AND CITY COUNCIL

FROM: Holly Ellis, Public Works Director

SUBJECT: LHTAC/Local Agreement for the 2024 Children Pedestrian Safety Program

BACKGROUND/ DESCRIPTION:

On January 3, 2018, the City Council authorized staff to apply for a grant to conduct a Road Safety Audit (RSA) along Division Avenue, identifying safety improvements for all users of Division Avenue from Hwy 2 to Spruce Street. On February 3, 2021, the City Council accepted the completed Division Avenue RSA (Resolution No. 21-0007), which informed the Multimodal Transportation Master Plan (MTMP), adopted on May 6, 2021 (Resolution No. 21-022). The MTMP's Capital Improvement priorities include the Division Avenue Corridor Improvement concept (Appendix A, Figures 18 and 19), designed to address RSA safety concerns and enhance pedestrian (especially children) and bicycle access to schools, community destinations, and neighborhoods.

On September 7, 2022, the City Council authorized acceptance of the Children Pedestrian Safety Program award to fund Phase 1 of the Division Avenue Corridor Improvement project. Construction of these improvements, located on the east side of Division Avenue between Superior Street and Highway 2, was completed in August 2023.

On November 15, 2023, the City Council approved staff's application for the 2024 Children Pedestrian Safety Program grant. Phase 2 will extend improvements along the east side of Division Avenue from Pine Street to Superior Street. This phase will include new sidewalks, ADA-compliant ramps, planter strips, curbs and gutters, and driveway approaches. The project will also narrow travel lanes on Division Avenue to provide traffic calming.

The full Division Avenue Corridor project is estimated to cost over \$10 million. 2024 Children Pedestrian Safety Program provides an opportunity to fund a portion of this larger initiative and continue the revitalization of Division Avenue's east side.

The Local Highway Technical Assistance Council (LHTAC) administers the Children Pedestrian Safety Program using state and federal funds (American Rescue Plan Act) allocated by the Idaho Legislature. The program requires projects to be completed by August 31, 2026, with a maximum award of \$250,000 per jurisdiction. Grant funds cannot be used for development services fees, project match, education/outreach, or reimbursement of equipment or employee costs. No project match is required. The projects must comply with Davis-Bacon Wage, ADA, and Title VI requirements; however, Buy American Build America does not apply. LHTAC serves as the subrecipient of federal funding and will pay contractors directly.

If the LHTAC/Local Agreement for the 2024 Children Pedestrian Safety Program is approved, staff will host a public open house in March and present the project to the Pedestrian and Bicycle Advisory Committee. The request to bid the project will go to City Council for consideration in the spring. Construction is expected to occur when school is not in session and be completed before the start of the school year.

STAFF RECOMMENDATION:

Staff recommends that the LHTAC/Local Agreement for the 2024 Children Pedestrian Safety Program for the Division Avenue Corridor Improvement Phase 2 project is approved and authorize Mayor signature.

ACTION:

Move to approve the LHTAC/Local Agreement for the 2024 Children Pedestrian Safety Program for the Division Avenue Corridor Improvement Phase 2 project and authorize Mayor signature.

WILL THERE BE ANY FINANCIAL IMPACT? YES HAS THIS ITEM BEEN BUDGETED? YES; within FY25 budget.

ATTACHMENTS:

1. Proposed Resolution
2. LHTAC/Local Agreement
3. LHTAC Memo on Award Procedures
4. LHTAC 2024 Children Pedestrian Safety Program Application Scores
5. Draft Division Avenue Corridor Improvement Phase 2 Plans

No: 25-
Date: February 19, 2025

RESOLUTION
OF THE CITY COUNCIL
CITY OF SANDPOINT

TITLE: LHTAC/LOCAL AGREEMENT 2024 LOCAL CHILDREN PEDESTRIAN SAFETY (CPS) PROGRAM DIVISION AVENUE CORRIDOR SAFETY IMPROVEMENT PROJECT, PHASE 2, CITY OF SANDPOINT CPS#24

WHEREAS: On January 3, 2018, City Council authorized staff to apply for a grant to conduct a Road Safety Audit (RSA) along Division Avenue, identifying safety improvements on Division from Highway 2 to Spruce Street, with City Council accepting the completed RSA on February 3, 2021, under Resolution 21-007, which informed the Multimodal Transportation Master Plan (MTMP), adopted on May 6, 2021, under Resolution 21-022, where capital priorities within the MTMP include the Division Avenue Corridor Improvement concept under Appendix A, Figures 18 and 19, designed to address RSA safety concerns and enhance pedestrian safety, especially for children, and bicycle access to schools, community destinations, and neighborhoods;

WHEREAS: On September 7, 2022, Council authorized acceptance of the Children Pedestrian Safety Program (Program) award to fund Phase 1 of the Division Avenue Corridor Improvement project, with construction of these improvements, located on the east side of Division between Superior Street and Highway 2, completed in August 2023;

WHEREAS: On November 15, 2023, Council approved submission of an application for the 2024 Program grant, where Phase 2 will extend improvements along the east side of Division from Pine Street to Superior Street, to include new sidewalks, ADA-compliant ramps, planter strips, curbs and gutters, and driveway approaches and narrow travel lanes on Division to provide traffic calming;

WHEREAS: The full Division Avenue Corridor project is estimated to cost over \$10 million, with the 2024 Program providing an opportunity to fund a portion of this larger initiative and continue the revitalization of the east side of Division;

WHEREAS: The Local Highway Technical Assistance Council (LHTAC) administers the Program using state and federal funds (American Rescue Plan Act) allocated by the Idaho Legislature, with no local match, a maximum award of \$250,000 per jurisdiction, a requirement for the completion of projects no later than August 31, 2026, and LHTAC, serving as the subrecipient of the funding, paying contractors directly; and

WHEREAS: Following approval of the execution of this Agreement, staff will proceed with public and citizen advisory committee engagement, the request to bid the project will be presented to Council this spring, and construction is expected to occur when school is not in session, with completion before the start of the next school year.

NOW, THEREFORE, BE IT RESOLVED THAT: LHTAC/Local Agreement 2024 Local Children Pedestrian Safety (CPS) Program Division Avenue Corridor Safety Improvement Project, Phase 2, City of Sandpoint CPS#24, a copy of which is attached hereto and made a part hereof as if fully incorporated herein, is hereby approved.

BE IT FURTHER RESOLVED THAT: The Mayor or his designee is hereby authorized to sign and enter into the Agreement on behalf of the City.

Jeremy Grimm, Mayor

ATTEST:

Melissa Ward, City Clerk

LHTAC/LOCAL AGREEMENT
2024 LOCAL CHILDREN PEDESTRIAN SAFETY (CPS) PROGRAM
SPONSOR ADMINISTRATION
DIVISION AVENUE CORRIDOR SAFETY IMPROVEMENT PROJECT, PHASE 2,
CITY OF SANDPOINT
 CPS#24

PARTIES

THIS AGREEMENT is made and entered into this _____ day of _____, _____, by and between the **LOCAL HIGHWAY TECHNICAL ASSISTANCE COUNCIL (LHTAC)**, hereafter called LHTAC, and **City of Sandpoint**, acting by and through its Board or Council (Sponsor).

PURPOSE

LHTAC is administering the Children Pedestrian Safety (CPS) Program with state and federal funds obligated from the Idaho Legislature. This program is intended to serve the cities, counties and highway districts. The Sponsor has requested to receive a grant award to complete construction of its sidewalk/pathway project. The purpose of this Agreement is to set out the terms and conditions to accomplish this Project.

Authority for this Agreement is established by House Bill 770 of the 2024 legislative session.

The Parties agree as follows:

SECTION I. GENERAL

1. It is necessary for Sponsor to construct the project as part of this Agreement.
2. Federal participation in the project is in the form of a grant for the amount of \$250,000. No match is required. Scheduled funding for this project is listed in the approved CPS Program rankings, and subsequent revisions.
3. LHTAC shall make payments directly to the Contractor for eligible project costs up to the grant amount of \$250,000. The Contractor shall submit all required documentation, including but not limited to I-9 tax forms and direct payment forms, to facilitate such payments. Payments shall be made after construction begins and upon verification of completed work. In the event of project termination prior to completion, repayment obligations shall be determined based on the cause of termination. If termination occurs due to Contractor default or failure to perform, the Contractor shall be responsible for repaying to LHTAC all federal funds received for the

project, and the Sponsor shall include this repayment obligation in its construction contract with the Contractor. If termination occurs due to Sponsor default or circumstances within Sponsor's control, Sponsor shall be responsible for repayment of all federal funds received. If termination occurs due to circumstances beyond the reasonable control of either Sponsor or Contractor (force majeure), the parties shall negotiate in good faith to determine an equitable resolution regarding repayment obligations.

4. The Sponsor acknowledges that eligible uses of funds are material purchases and hiring a contractor to perform work. Ineligible uses of funds include reimbursement of sponsor for agency work or salary cost including but not limited to design, construction or inspection related activities. Other ineligible uses of funds include engineering fees of any kind, equipment fees, project costs prior to agreement execution, project match, education and outreach.
5. Sufficient Appropriation. It is understood and agreed that LHTAC is a public agency, and this Agreement shall in no way be construed to bind or obligate LHTAC beyond the term of any particular appropriation of funds by the State.

SECTION II. LHTAC shall:

1. Provide the following services incidental to Project development:
 - a. Provide support to the Sponsor on project bidding, procurement processes, general questions, and other technical assistance.
 - b. Provide approved funding to Sponsor upon receipt of agreement.
 - a. Complete final acceptance of each Project based on Sponsor documentation and physical observation.
2. Maintain all application and award records for a period of three (3) years from the date of final acceptance. If any litigation, claim, negotiation, or audit has been started before expiration of the three-year period, the records shall be retained until completion of the action and resolution of all issues that arise from it.
3. Bill Sponsor for any federal funds to be repaid by Sponsor if Project is terminated prior to completion.
4. Cancel the Agreement should Sponsor not be able to

provide an acceptable construction ready design by December 20, 2024 and request Sponsor to return the funds, unless a written extension has been granted by LHTAC.

SECTION III. Sponsor shall:

1. Sponsor warrants that it will repay any federal funds on this project if Project is terminated prior to completion. The Sponsor also warrants that it will repay all state/federal funds if a construction ready design is not delivered to LHTAC by December 20, 2024
2. Provide LHTAC with an update on design status by November 1, 2024.
3. Provide LHTAC with before and after pictures upon completion of the project.
4. Maintain all records, including source documentation for all expenditures for a period of three (3) years from the date of final acceptance. If any litigation, claim, negotiation, or audit has been started before expiration of the three-year period, the records shall be retained until completion of the action and resolution of all issues that arise from it.
5. Bid and award the project following state procurement rules if applicable.
6. Complete Project and provide Project Closeout Form and financial records to LHTAC by August 31st, 2026. No expenditures are eligible under this grant on or after September 1, 2026.
7. Comply with all other applicable Federal and State statutes and regulations.
8. Sponsor agrees that failure to deliver any of the specified items listed above may result in the program award being rescinded.
9. Any excess funds that cannot be used on eligible expenses shall be returned to LHTAC for the CPS Program.

EXECUTION

This Agreement is executed for LHTAC by its Administrator, and executed for Sponsor by its duly appointed representative, attested to by its Clerk.

LHTAC

Administrator

Local Sponsor

ATTEST:

Authorized Official

Clerk

(signed)

(title)

2024 Children Pedestrian Safety Program Application Scores

App #	Project Name	Local Sponsor	Amount \$ Applied For	Total cost of Project	Rank	Score
CPS 12	E. Oak Street Child Pedestrian Safety Improvements	City of Pocatello	\$250,000	\$250,000	1	377
CPS 09	Parke Ave Sidewalk Connections	City of Burley	\$250,000	\$261,884	2	372
CPS 26	Arco Electronic Speed Signs	Butte County	\$50,000	\$50,000	3	370
CPS 22	Troy Child Pedestrian Safety Program	City of Troy	\$250,000	\$290,000	4	369
CPS 49	Declo Child Pedestrian Improvement Project	City of Declo	\$245,000	\$245,000	5	368
CPS 44	Main Street Sidewalk Extension	City of Clark Fork	\$250,000	\$250,000	6	363
CPS 32	Elementary School Sidewalk Improvements	City of Montpelier	\$250,000	\$273,000	7	361
CPS 33	Child/Bike Pathway Improvements	City of Hollister	\$250,000	\$250,000	8	361
CPS 24	Division Avenue Corridor Safety Improvement Project, Phase 2	City of Sandpoint	\$250,000	\$300,000	9	357
CPS 46	Elm Street Pedestrian Connectivity	City of Victor	\$108,206	\$108,206	10	356
CPS 36	3rd East and 4th South Sidewalk Installation	City of Soda Springs	\$250,000	\$490,000	11	355
CPS 08	Park Street Pathway	City of Weiser	\$250,000	\$292,000	12	353
CPS 11	SW 7th Street, Iowa Ave. to Pennsylvania Ave.	City of Fruitland	\$234,000	\$234,000	13	351
CPS 16	12th Street; Warner Ave to Airway Ave	City of Lewiston	\$250,000	\$470,000	14	351
CPS 10	Davis Ave Pathway	City of McCall	\$250,000	\$348,101	15	348
CPS 20	Locust Grove Rd. and Heritage Park St Pedestrian Hybrid Beacon	Ada County HD	\$250,000	\$250,000	16	348
CPS 47	City of Pierce Child Pedestrian Safety Improvements	City of Pierce	\$250,000	\$214,443	17	348
CPS 15	3rd South and Dalling Subdivision Sidewalk Connectivity	City of Sugar City	\$250,000	\$250,160	18	347
CPS 43	2024 City of Preston Child Safety Project	City of Preston	\$250,000	\$250,000	19	346
CPS 13	Wallace Avenue Crossing Beacon and Safe Route Connector	City of Driggs	\$199,411	\$199,411	20	344
CPS 42	Roberts Elementary Sidewalk Improvements	City of Roberts	\$220,000	\$250,000	21	344
CPS 38	North Main Street Sidewalk Installation	City of Iona	\$250,000	\$453,000	22	343
CPS 03	St. Maries Sidewalks Project; Phase 3	City of St. Maries	\$250,000	\$350,000	23	341
CPS 17	Soldier Road South Sidewalks	City of Fairfield	\$250,000	\$349,008	24	340
CPS 25	Children Pedestrian Safety Program	City of Caldwell	\$250,000	\$250,000	25	339
CPS 19	Sidewalk repair/replace/install, solar radar speed signs	City of Orofino	\$250,000	\$250,000	26	338
CPS 27	Fox Acres Pathway Reconstruction	City of Hailey	\$235,000	\$235,000	27	338
CPS 29	Connecting Sidewalk on Millhollow Road	City of Rexburg	\$250,000	\$250,000	28	338
CPS 37	West Main Street Sidewalk Installation	City of Teton	\$250,000	\$250,000	29	337
CPS 45	Tammy High School Pedestrian Crossing	Nez Perce County	\$67,378	\$67,378	30	334
CPS 18	Phase 2 Rimrock Elementary School Pathway Project	City of Ammon	\$250,000	\$300,000	31	333
CPS 02	W Roseberry Pathway to School Path	City of Donnelly	\$250,000	\$270,000	32	329
CPS 07	Osburn Child Pedestrian Route Improvements	City of Osburn	\$150,000	\$150,000	33	329
CPS 34	Sidewalk/Pathway Improvements	City of Bloomington	\$250,000	\$270,000	34	327
CPS 41	East Airport Road Sidewalk Improvements	City of Blackfoot	\$250,000	\$270,000	35	327
CPS 04	Plummer Sidewalk Project	City of Plummer	\$250,000	\$250,000	36	325
CPS 31	Freemont Ave Sidewalk Improvements	City of Aberdeen	\$250,000	\$270,000	37	325
CPS 05	Harrison Sidewalk Project	City of Harrison	\$250,000	\$250,000	38	317
CPS 06	Pinehurst Child Pedestrian Safety Improvements	City of Pinehurst	\$214,443	\$250,000	39	316
CPS 40	Children/Pedestrian Sidewalk Improvements	City of American Falls	\$250,000	\$270,000	40	316
CPS 14	South Samson Trail Pathway	Valley County	\$250,000	\$250,000	41	311
CPS 21	RRFB & Pathway Improvements	Bingham County	\$250,000	\$250,000	42	311
CPS 23	6th Street Sidewalk Improvements: Phase 1	City of Potlatch	\$250,000	\$250,000	43	311
CPS 39	Sidewalk/Pathways Improvement	City of Paris	\$250,000	\$270,000	44	310
CPS 28	Elk River Child Safe Pathways and Crossings	City of Elk River	\$50,000	\$50,000	45	307
CPS 30	West Main Street Sidewalk Reconstruction	City of Lewisville	\$250,000	\$250,000	46	295
CPS 48	St. Anthony N 2nd West Elementary School Sidewalk	City of St. Anthony	\$100,000	\$100,000	47	294
CPS 35	Children/Pedestrian Sidewalk Improvements	City of Paul	\$250,000	\$270,000	48	279

Local Highway Technical Assistance Council

3330 Grace Street
Boise, Idaho 83703
Phone 208.344.0565
Fax 208.344.0789


www.lhtac.org



Kar Item # 5.

Kevin Renfrow
Vice Chair
Todd Smith
Secretary/Treasurer
Laila Kral, P.E.
Administrator

Memorandum

DATE: January 8, 2024
TO: Children Pedestrian Safety Program 2024 Awardees
FROM: Ken Kanownik, AICP
Deputy Administrator 
Re: 2024 Children Pedestrian Safety Awards and Procedures

The Children Pedestrian Safety Program had both Federal (American Rescue Plan Act) and state funds to award to applications in the 2024 program year. The instructions in this memo only apply to the projects that have Federal funds.

Transfer of Funds:

Recipients of the Federal funds will not receive a check with their signed agreement as has occurred in past years. To minimize administrative reporting to the Department of the Treasury, LHTAC will pay your contractor (up to the award amount) directly after construction begins. In your bid documents, this must be disclosed along with the requirement to complete necessary paperwork, such as I-9 tax forms or direct payment forms. LHTAC is currently working on procedures for processing and submitting payments. Guidance for this will be sent out before projects begin construction in the spring.

Minimal Reporting:

LHTAC is administering the Federal funds to minimize federal reporting, however, some basic information such as project start and end dates, percent complete or other progress information will be needed. This information will be collected monthly, with the start and end dates required before any payments can be made to the contractor.

Federal Requirements:

There are several Federal requirements associated with this funding. It is important to note that this is not Federal Highway Administration funding like LHTAC typically administers and the procedures for compliance are not the same. For these projects, just verification of compliance is required. Guidance on the Federal requirements for the ARPA funds:

Davis-Bacon Wages: Contractors are required to pay Davis-Bacon wages. This should be clear in your contract documents along with a method to verify. This can be as simple as

Association of Idaho Cities

Mayor Robert (BJ) Berlin
City of Roberts

Mayor Kari Peterson
City of Fruitland

Rod Plank
City of Kellogg

Idaho Association of Highway Districts

Commissioner Kevin Renfrow
South Latah Highway District

Commissioner Neal Gier
Buhl Highway District

Commissioner Gilbert Hofmeister
Power County Highway District

Idaho Association of Counties

Commissioner Phil Lampert
Benewah County

Commissioner Mark Rekow
Gem County

Commissioner Todd Smith
Madison County

Ex-Officio Members

Kelley Packer, Executive Director
Association of Idaho Cities

Nick Veldhouse, Executive Director
Idaho Association of Highway Districts

Seth Grigg, Executive Director
Idaho Association of Counties

randomly selected redacted pay stubs saved to the project file, an affidavit from the contractor outlining the wages, or using the FHWA inserts.

Americans with Disabilities Act (ADA): All facilities constructed with this funding are required to meet ADA requirements. Inspection forms and documentation on technical infeasibility should be kept in the project file. All projects should meet the Public Right-of-Way Accessibility Guidelines 2023 (PROWAG) or have appropriately documented technical infeasibility, preferred before advertisement for construction.

Title VI: This regulation applies generally and broadly, but there is no requirement to have any active role. LHTAC recommends a non-discrimination statement for the agency and contractor in the contract.

Buy America Build America (BABA): For projects that total less than \$500,000, the Buy America provisions will not apply. If you have bundled your CPS project into a larger project, this will trigger the Buy America, Build America requirements into your larger project. LHTAC recommends advertising these projects separately or contacting LHTAC to ensure proper documentation is included.

Should you require any guidance on incorporating the Federal requirements into your project, please consult with LHTAC prior to advertising your project. Please reach out to Deputy Administrator Ken Kanownik (208-530-7469) or TAP Safety Engineer Amanda LaMott (208-530-7463).

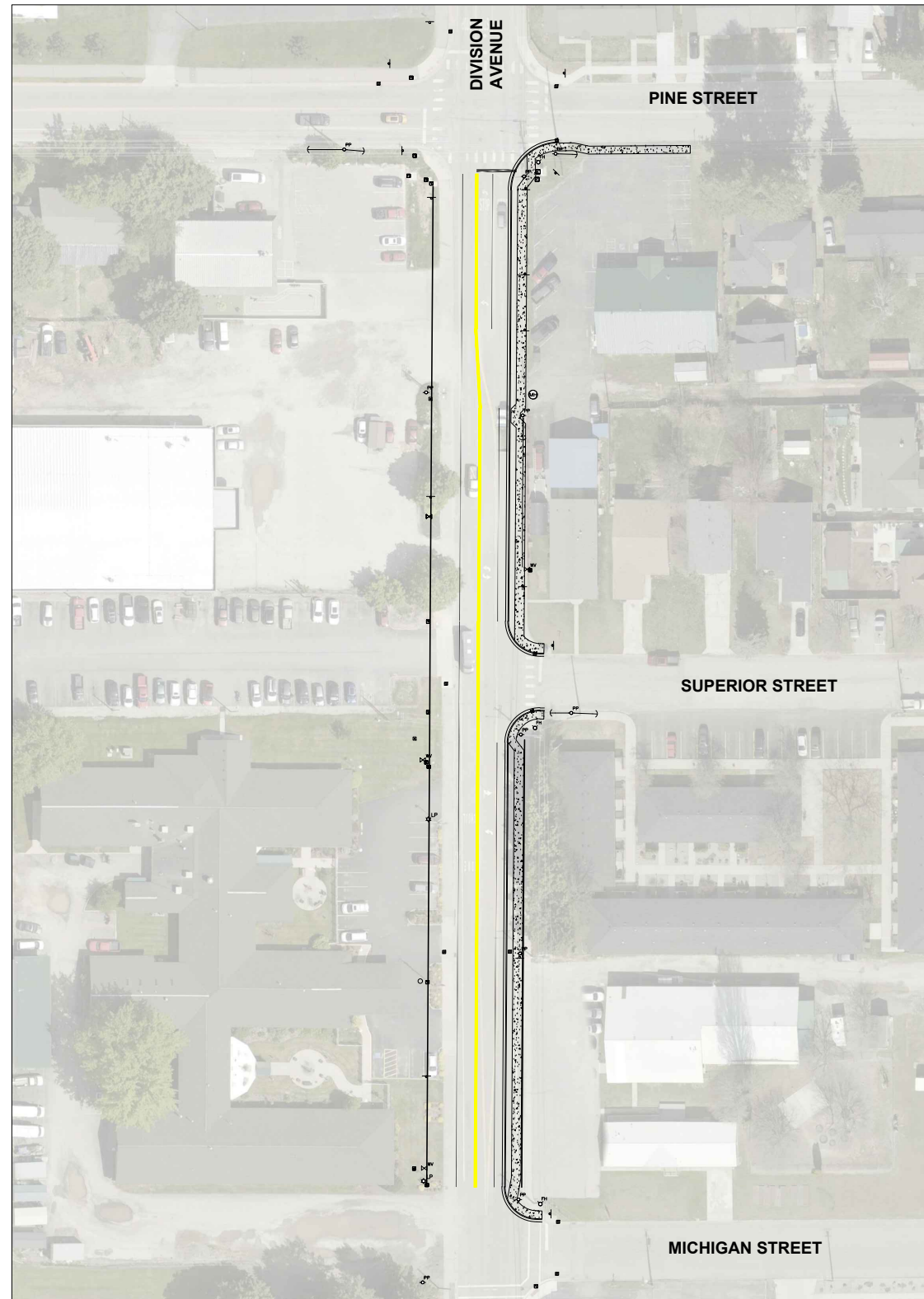
All projects have been submitted to the Division of Financial Management (DFM) for inclusion in the U.S. Treasury reporting portal. The final cut-off date for any changes to the project list is January 31st, 2025. This date is set by the Department of the Treasury. If LHTAC does not have all project files needed to demonstrate your project is ready for construction, your project will be removed from the portal and will be ineligible for funds.

All Federal funds must be paid out by August 31, 2026. At this date any unspent funds will be returned to the Division of Financial Management for return to the U.S. Treasury.

DIVISION AVENUE CORRIDOR IMPROVEMENTS PHASE 2

S21/22, T57N, R2W

PRELIMINARY
NOT FOR CONSTRUCTION



OVERALL SITE PLAN

LEGEND:

- 2056 ----- EXISTING CONTOUR
- PROPERTY LINE
- FOUND SURVEY MONUMENT/MARKER
- 2079.10 X
CONC
1.6% FINISHED GRADE ELEVATION
- 1.6% FINISHED GRADE SLOPE
- CONCRETE
- GRAVEL
- EXISTING ASPHALT
- PROPOSED ASPHALT
- CURB AND GUTTER
- TREE
- SIGN
- MB MAILBOX
- X FENCE
- > DITCH
- RETAINING WALL
- W WATER MAIN
- WM WATER METER
- VALVE
- HYDRANT
- S SANITARY SEWER MAIN
- SEWER MANHOLE
- CLEAN OUT
- SD STORM DRAIN PIPE
- CULVERT
- STORM INLET (GRADED LID)
- STORM MANHOLE (SOLID LID)
- BE BURIED ELECTRIC
- AE AERIAL ELECTRIC
- E ELECTRICAL BOX
- UTILITY POLE
- LIGHT POLE
- GUY WIRE
- G GAS METER
- T TELEPHONE PEDESTAL

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (2020), SANDPOINT CITY CODE, AND THE PROJECT SPECIFICATIONS.
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING SITE ELEMENTS SHOWN ON THESE PLANS, INCLUDING UTILITIES, SURFACE FEATURES, AND TOPOGRAPHY, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- IN NO CASE SHALL RUNOFF BE DIRECTED FROM THE PROPOSED PROJECT ONTO A NEIGHBORING LOT, UNLESS IT IS SPECIFICALLY DESIGNATED FOR SUCH A PURPOSE.

DATE	REVISION



**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

DATE: 10/14/2024

COVER SHEET

SHEET: 1 of 219

PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION

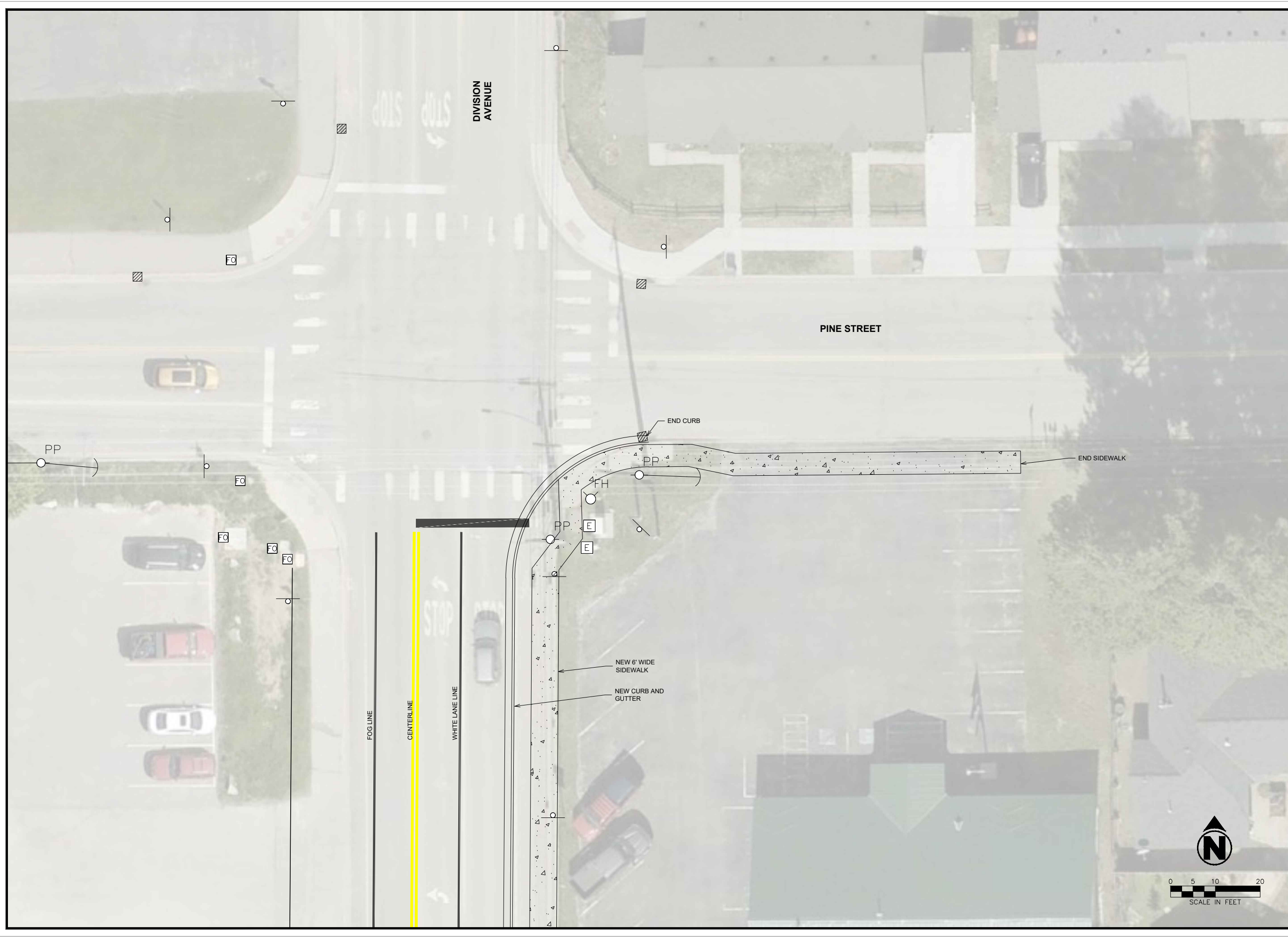


**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

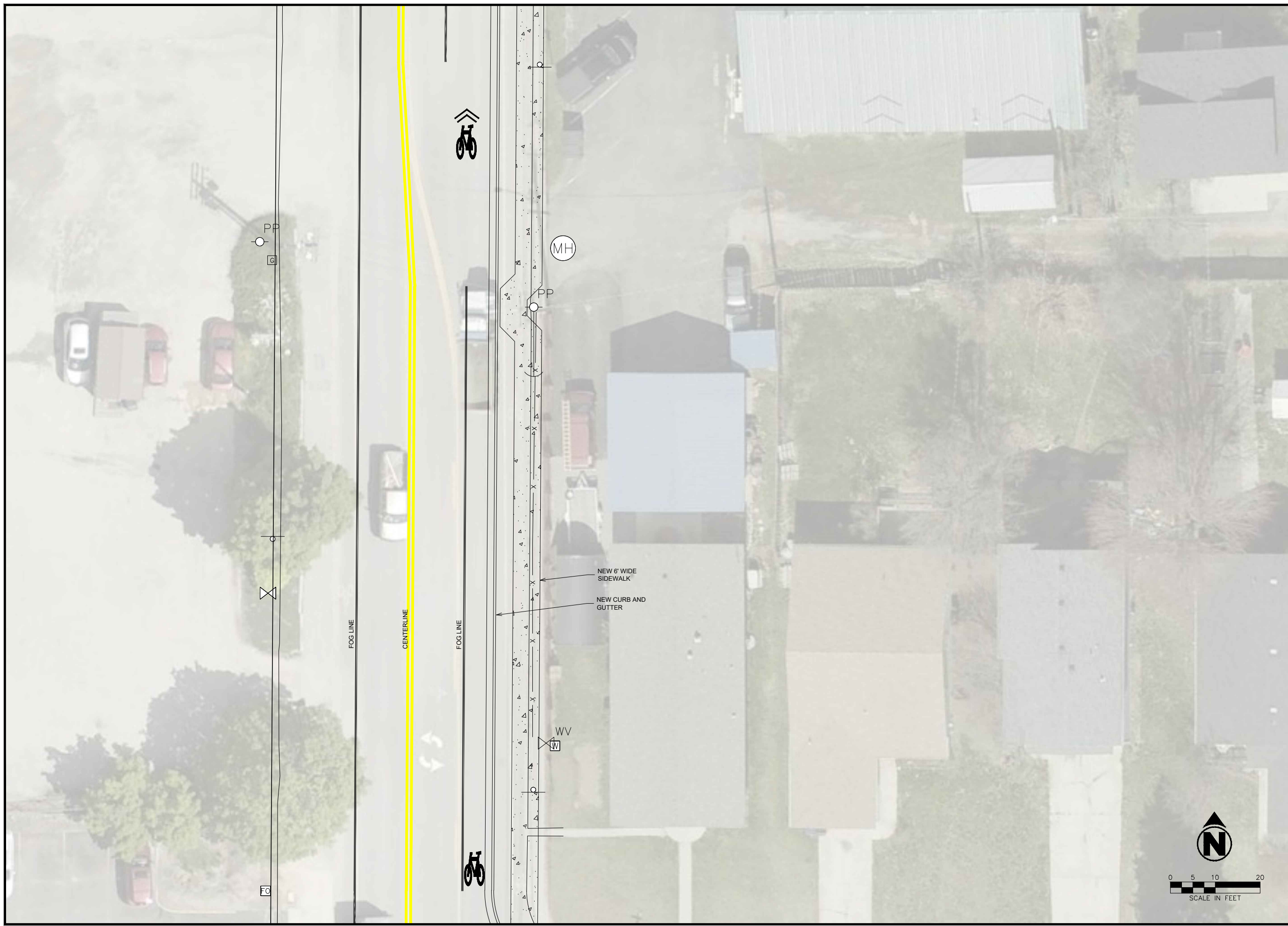
DATE: 10/14/2024

SITE PLAN

SHEET: 2 of 220



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Item # 5.

PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION



**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

DATE: 10/14/2024

SITE PLAN

SHEET: **3** OF 221

PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION

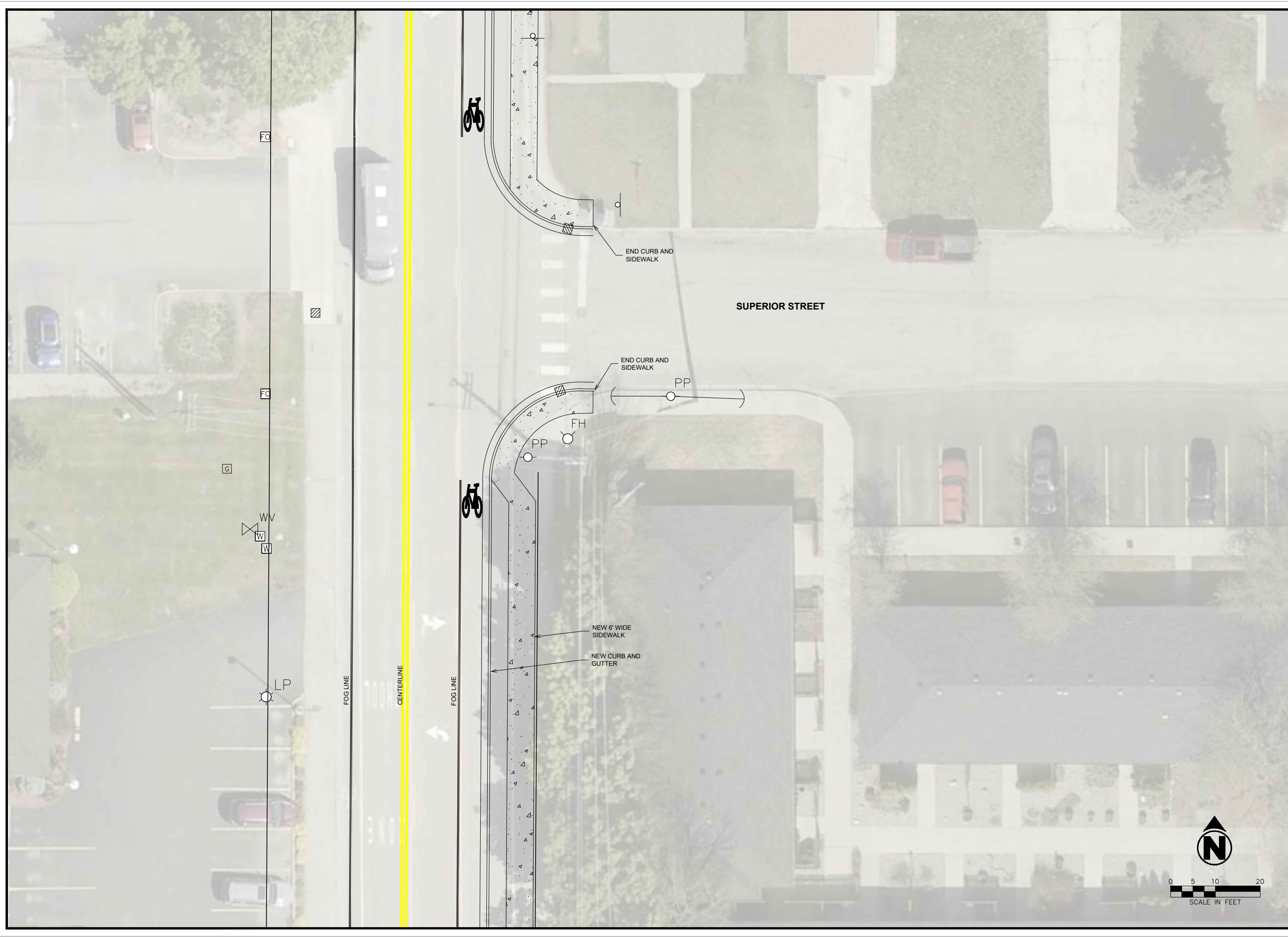


**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

DATE: 10/14/2024

SITE PLAN

SHEET: **4** OF 222



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PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION



**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

DATE: 10/14/2024

SITE PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION

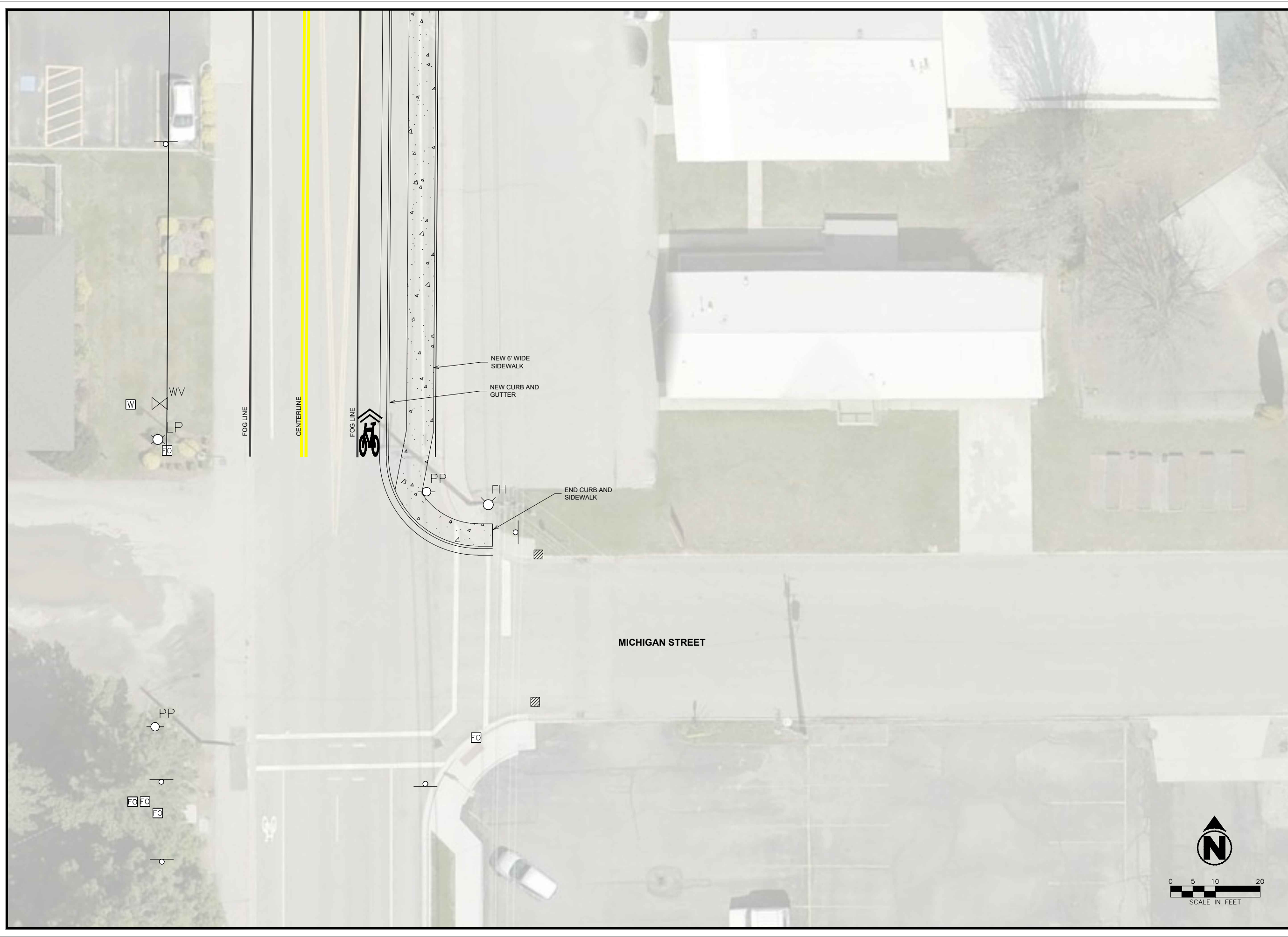


**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

DATE: 10/14/2024

SITE PLAN

SHEET: **6** OF 224



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PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION

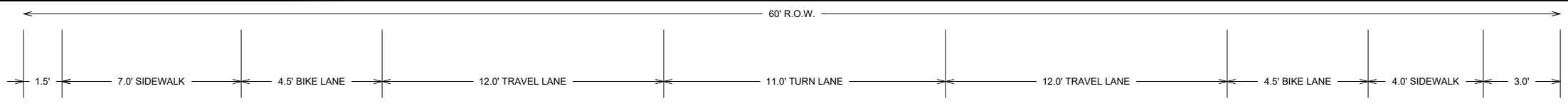


**DIVISION AVENUE CORRIDOR
IMPROVEMENTS PHASE 2
SANDPOINT, IDAHO**

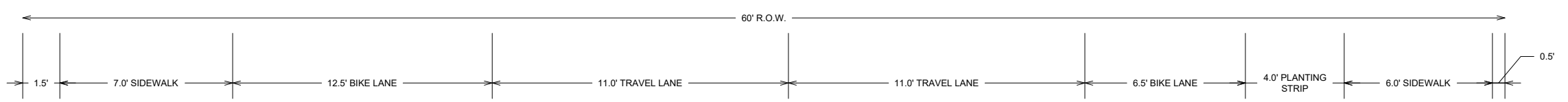
DATE: 10/14/2024

DETAILS

SHEET: **7** of 225



1 EXISTING ROADWAY TYPICAL SECTION
NOT TO SCALE



2 PROPOSED ROADWAY TYPICAL SECTION
NOT TO SCALE



AGENDA REPORT

City Council Meeting

TODAY'S DATE: February 11, 2024

MEETING DATE: February 19, 2024

TO: MAYOR AND CITY COUNCIL

FROM: Erik Bush PLA, Project Manager, City Forester

SUBJECT: Preliminary Design of the Downtown Parking Lot Rehabilitation Project

DESCRIPTION/BACKGROUND:

This project will rehabilitate Sandpoint's Downtown Parking Lot, located at 218 Church Street to improved safety, accessibility, and long-term infrastructure maintenance.

The parking lot is in poor condition, with failing asphalt, potholes, and tripping hazards. It currently has 121 parking spaces, many of which are undersized and do not meet the City Parking Code requirements. Additionally, the parking lot lacks stormwater treatment, and its layout presents challenges for snow removal operations.

The rehabilitation project will include new asphalt and subgrade material, stormwater improvements, Dark-Sky-Compliant lighting, new shade trees, and updated pavement markings. The redesigned layout will provide approximately 128 total parking spaces, including 27 compact and 6 ADA-accessible parking spaces. Additionally, a new entrance on Third Avenue will improve access and reduce conflict points; the existing entrances at Oak Street and Church Street will be removed. This new entrance will allow for safer access to the lot, as well as accommodate a potential future paid access parking system. This layout was designed by Sandpoint's Civil Engineer Brandon Staglund to improve efficiency, traffic flow, and safety.

Construction of this project is budgeted for in Fiscal Year 2025 with full funding by the Sandpoint Urban Renewal Agency (SURA). Construction is anticipated to begin in April and completed before the "Lost in the 50s" event, lasting up to three weeks. During construction, the parking lot will be closed to the public for safety reasons. Adjacent property owners and downtown businesses receive advance notifications via mailer in early March. Additional notification with detailed schedule will be sent once a construction contract is awarded.

STAFF RECOMMENDATION:

Staff recommends City Council consider approving the preliminary design for the Downtown Parking Lot Rehabilitation Project and authorize staff to finalize the design and advertise the project for construction bids. If approved, it is anticipated that a request to award a construction contract will be presented to City Council for consideration in April.

ACTION:

Motion to approve the resolution accepting the preliminary design for rehabilitation of the downtown parking lot and authorizing staff to transition the project to the final design stage and advertise for bids.

WILL THERE BE ANY FINANCIAL IMPACT? YES HAS THIS ITEM BEEN BUDGETED? YES

ATTACHMENTS:

1. Proposed Resolution
2. Downtown Parking Lot Rehabilitation Project Concept
3. Downtown Parking Lot Rehabilitation Project Preliminary Plans

No: 25-
Date: February 19, 2025

RESOLUTION
OF THE CITY COUNCIL
CITY OF SANDPOINT

TITLE: ACCEPTING THE PRELIMINARY DESIGN FOR REHABILITATION OF THE DOWNTOWN PARKING LOT AND AUTHORIZING STAFF TO TRANSITION THE PROJECT TO THE FINAL DESIGN STAGE AND ADVERTISE FOR BIDS

WHEREAS: The asphalt in the City-owned downtown parking lot is failing, with potholes and tripping hazards, along with poor lighting in the lot, resulting in a safety risk for pedestrians and challenging maintenance and snow removal conditions for City staff;

WHEREAS: Due to these conditions and the fact that nearly all of the lot's current 121 parking spaces are smaller than the size required by City Code, City staff recommends rehabilitation of the parking lot, funded by the Sandpoint Urban Renewal Agency, to include asphalt replacement, stormwater improvements, Dark Sky compliant parking lot illumination, and pavement markings to create approximately 128 total spaces, to include compact and ADA accessible spaces, with a layout designed by the City Engineer to improve efficiency, traffic flow, snow plow operations, and safety;

WHEREAS: The redesign includes removal of the Oak Street and Church Street access, replaced with sidewalk to match the surrounding conditions, and a new access point off Third Avenue, allowing for safer lot entry/exit and accommodating a potential future paid-access parking system that is intended to be installed after completion of this portion of the project; and

WHEREAS: The project schedule will begin with public communication to the downtown business owners and residents, then bid advertisement and opening next month in March, Council's award of construction contract in early April, and final completion at the beginning of May, prior to the "Lost in the 50s" event held downtown in the middle of May.

NOW, THEREFORE, BE IT RESOLVED THAT: The 2025 City Parking Lot Improvements preliminary design, a copy of which is attached hereto and made a part hereof as if fully incorporated herein, is hereby accepted and approved.

BE IT FURTHER RESOLVED THAT: Staff is hereby authorized to transition the project to the final design stage and advertise for bids.

Jeremy Grimm, Mayor

ATTEST:

Melissa Ward, City Clerk

DATE	REVISION



CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO

DATE: 2/3/2025

CONCEPTUAL EXHIBIT

NORTH THIRD AVENUE

NEW ENTRANCE



CHURCH STREET

OAK STREET

CLOSE ENTRANCE

CLOSE ENTRANCE

128 TOTAL SPACES SHOWN
95 STANDARD SPACES
27 COMPACT SPACES
6 ACCESSIBLE SPACES (INCLUDING 2 VAN ACCESSIBLE)

-  NEW TREE
-  NEW LIGHT POLE



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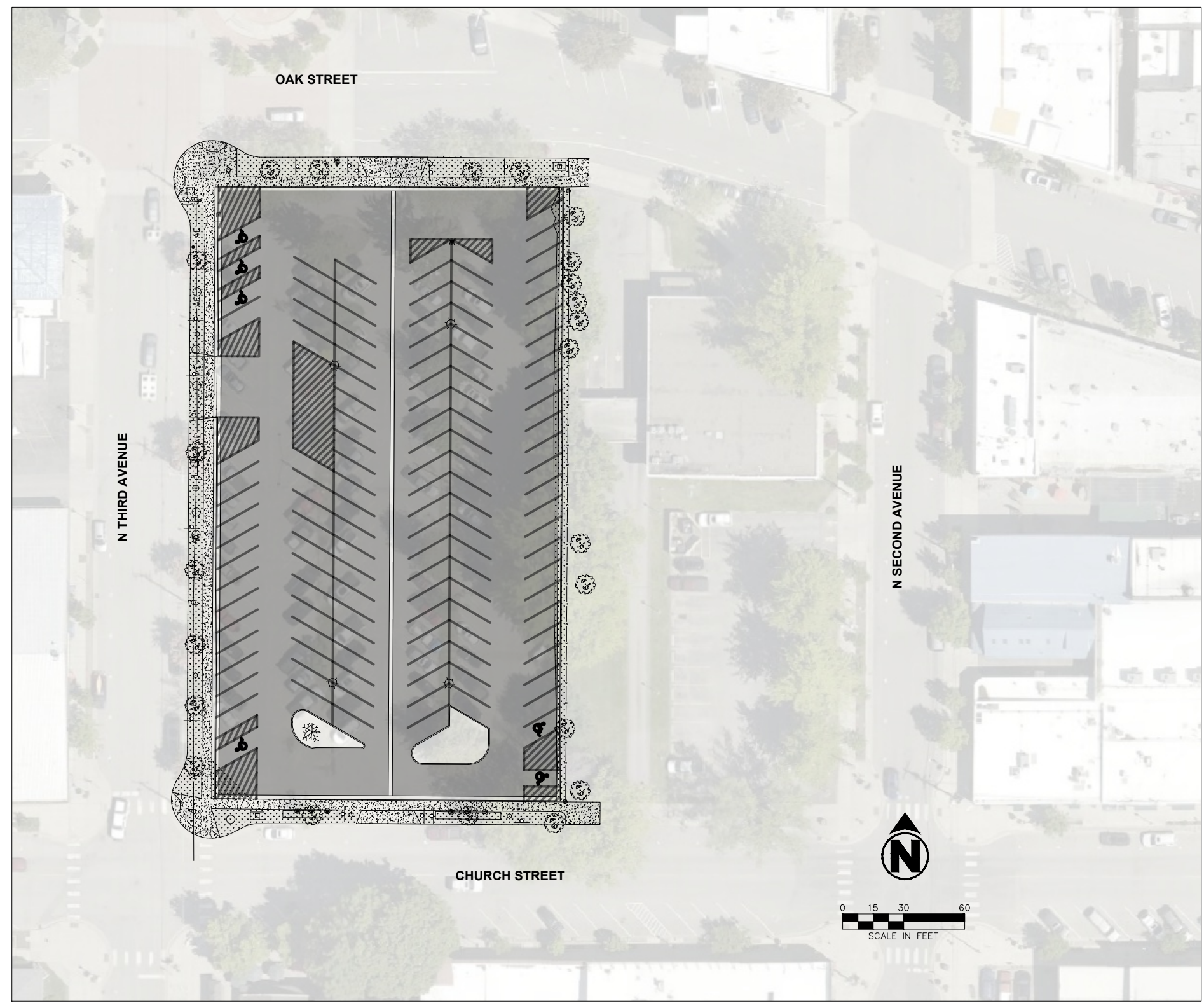
CITY PARKING LOT IMPROVEMENTS 2025

218 CHURCH STREET, SANDPOINT, IDAHO

Item # 6.

50% DESIGN
PRELIMINARY
NOT FOR CONSTRUCTION

DATE	REVISION



OVERALL SITE PLAN

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (2020), SANDPOINT CITY CODE, AND THE PROJECT SPECIFICATIONS.
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING SITE ELEMENTS SHOWN ON THESE PLANS, INCLUDING UTILITIES, SURFACE FEATURES, AND TOPOGRAPHY, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- IN NO CASE SHALL RUNOFF BE DIRECTED FROM THE PROPOSED PROJECT ONTO A NEIGHBORING LOT, UNLESS IT IS SPECIFICALLY DESIGNATED FOR SUCH A PURPOSE.

LEGEND:

- 2056 --- EXISTING CONTOUR
- 2056 — PROPOSED CONTOUR
- — — — — PROPERTY LINE
- FOUND SURVEY MONUMENT/MARKER
- SILT FENCE
- 2079.10 CONC x 1.6% FINISHED GRADE ELEVATION
- 1.6% FINISHED GRADE SLOPE
- ▭ CONCRETE
- ▭ GRAVEL
- ▭ ASPHALT
- ▭ CURB AND GUTTER
- ☼ TREE
- SIGN
- X — FENCE
- W — WATER MAIN
- WS — WATER SERVICE
- ⊙ WM WATER METER
- ⊗ VALVE
- ☼ HYDRANT
- ⊙ W WELL
- S — SANITARY SEWER MAIN
- SS — SANITARY SEWER SERVICE
- ⊙ S SEWER MANHOLE
- CO CLEAN OUT
- SD — STORM DRAIN PIPE
- ▭ CULVERT
- ▭ STORM INLET (GRATED LID)
- ⊙ D STORM MANHOLE (SOLID LID)
- BE — BURIED ELECTRIC
- AE — AERIAL ELECTRIC
- ⊙ E ELECTRICAL BOX
- UTILITY POLE
- ⊙ LIGHT POLE
- GUY WIRE
- G — GAS
- ⊙ G GAS METER
- T — TELEPHONE
- ⊙ T TELEPHONE PEDESTAL
- DRY — DRY UTILITY TRENCH
- CBL — CABLE

CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO

DATE: 2/5/2025

COVER SHEET

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**50% DESIGN
PRELIMINARY
NOT FOR CONSTRUCTION**

DATE	REVISION



**CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO**

DATE: 2/5/2025

**EXISTING
CONDITIONS
AND
DEMOLITION
PLAN**

SHEET: 2 of 231

NORTH THIRD AVENUE

OAK STREET



DEMO NOTES

- 1 REMOVE TREE
- 2 REMOVE ASPHALT
- 3 REMOVE LIGHT POLE
- 4 REMOVE STORM INLET AND PIPE
- 5 RELOCATE BURIED FIBER

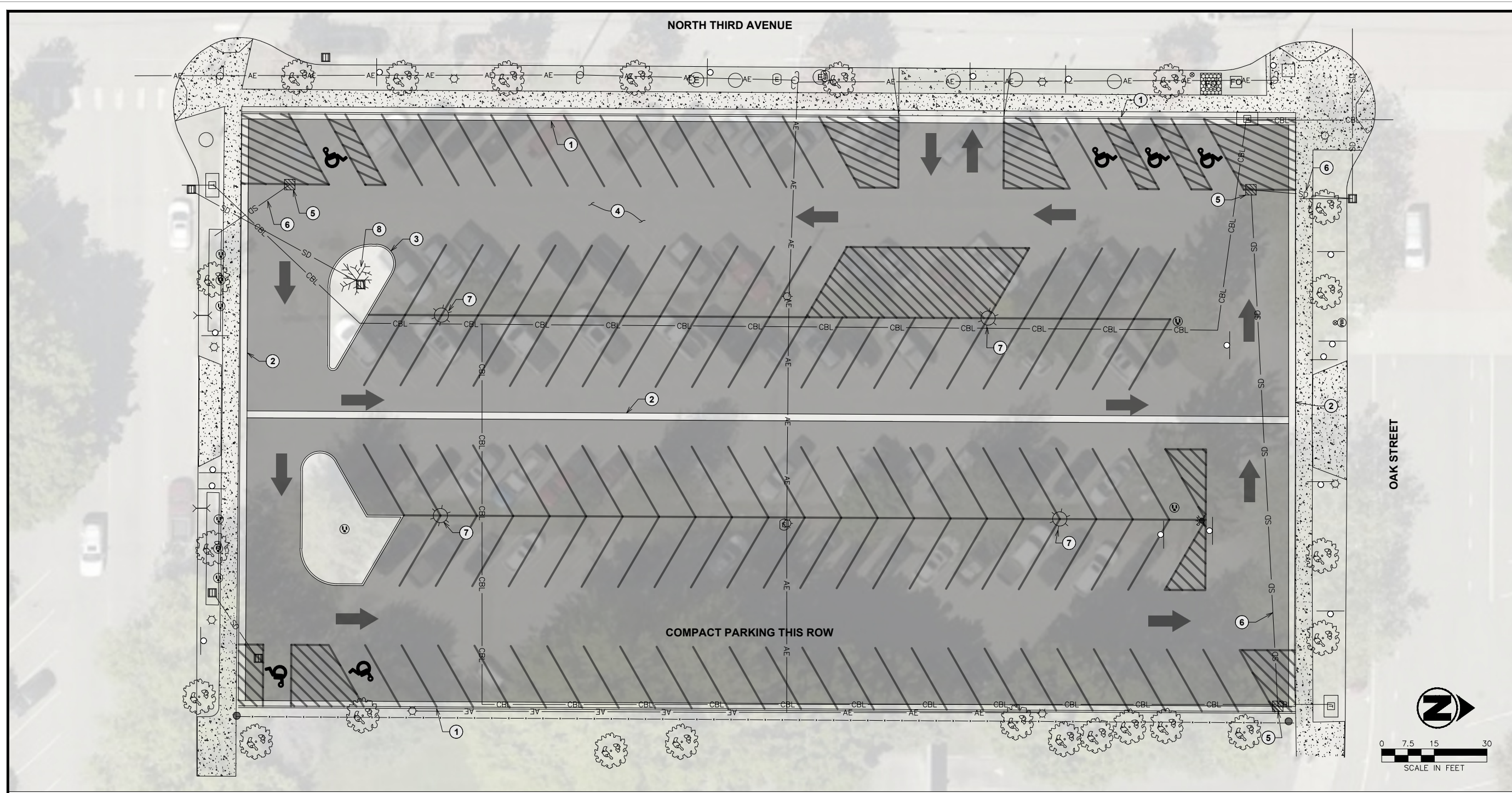
DATE	REVISION



**CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO**

DATE:

SITE PLAN



KEYED NOTES

- ① INSTALL CONCRETE CURB AND GUTTER
- ② INSTALL CONCRETE COVE GUTTER
- ③ INSTALL CONCRETE VERTICAL CURB
- ④ INSTALL ASPHALT SECTION
- ⑤ INSTALL STORM CATCH BASIN
- ⑥ INSTALL 6" PVC SCH 40 STORM PIPE
- ⑦ INSTALL LED STREET LIGHT
- ⑧ INSTALL TREE

**50% DESIGN
PRELIMINARY
NOT FOR CONSTRUCTION**

DATE	REVISION



**CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO**

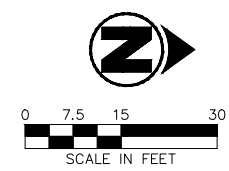
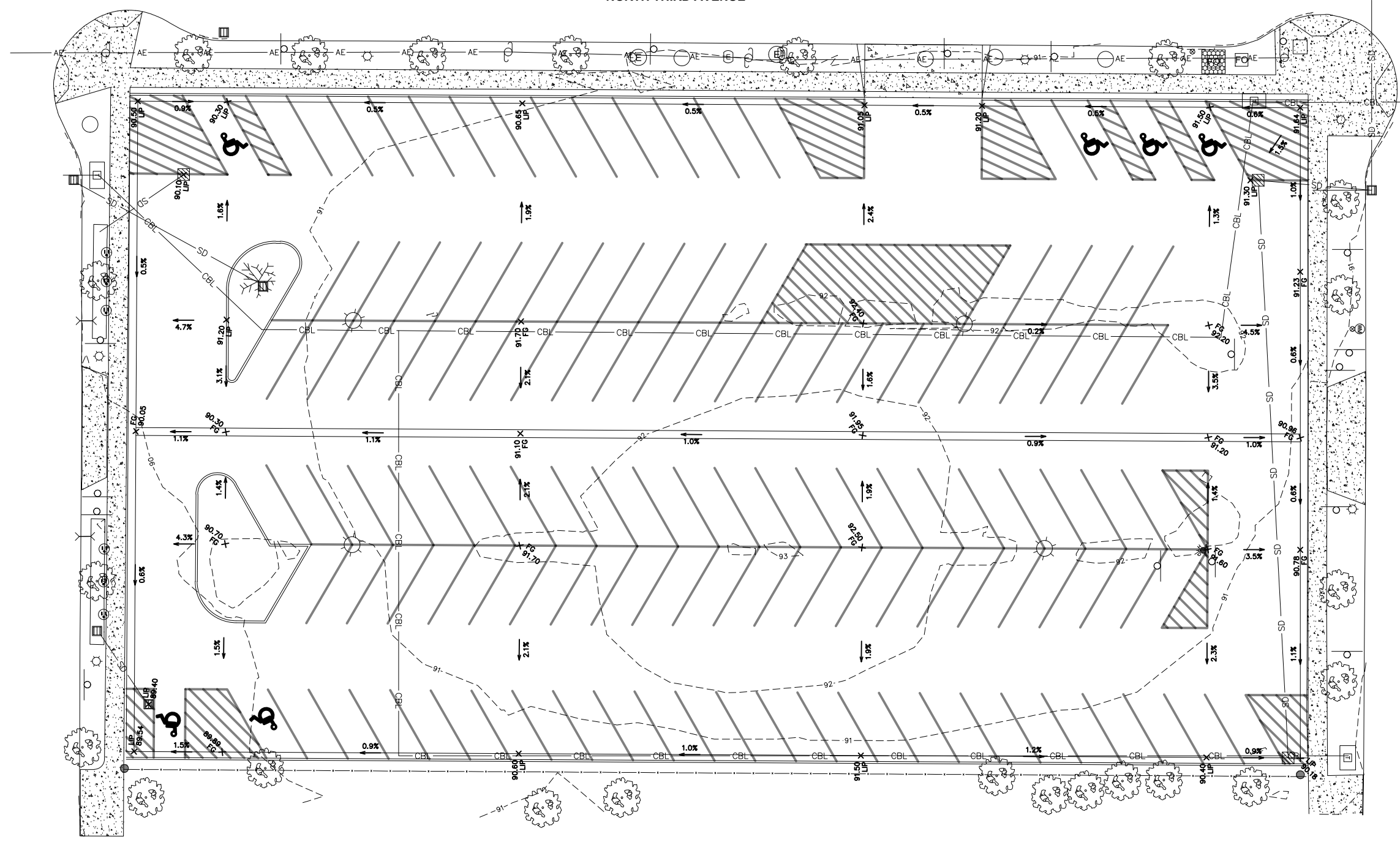
DATE:

**GRADING
PLAN**

SHEET: **4** OF 233

NORTH THIRD AVENUE

OAK STREET



ABBREVIATIONS:
 TBC = TOP BACK OF CURB
 SWALE = SWALE INVERT
 CONC = CONCRETE
 FG = FINISHED GRADE
 TW = TOP OF WALL
 BW = BOTTOM OF WALL
 MATCH = MATCH EXISTING

50% DESIGN
PRELIMINARY
 NOT FOR CONSTRUCTION

DATE	REVISION

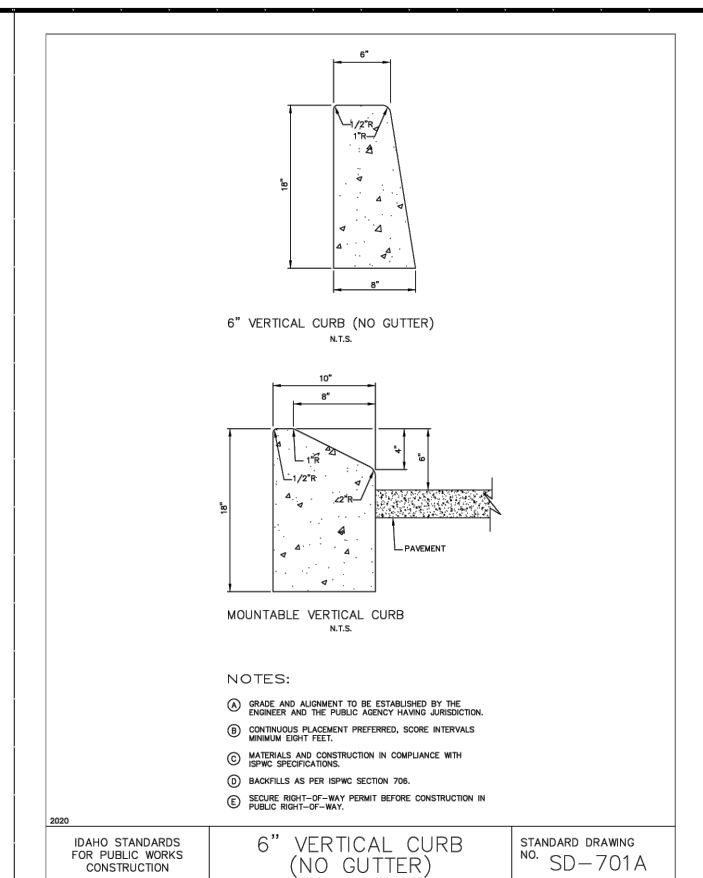
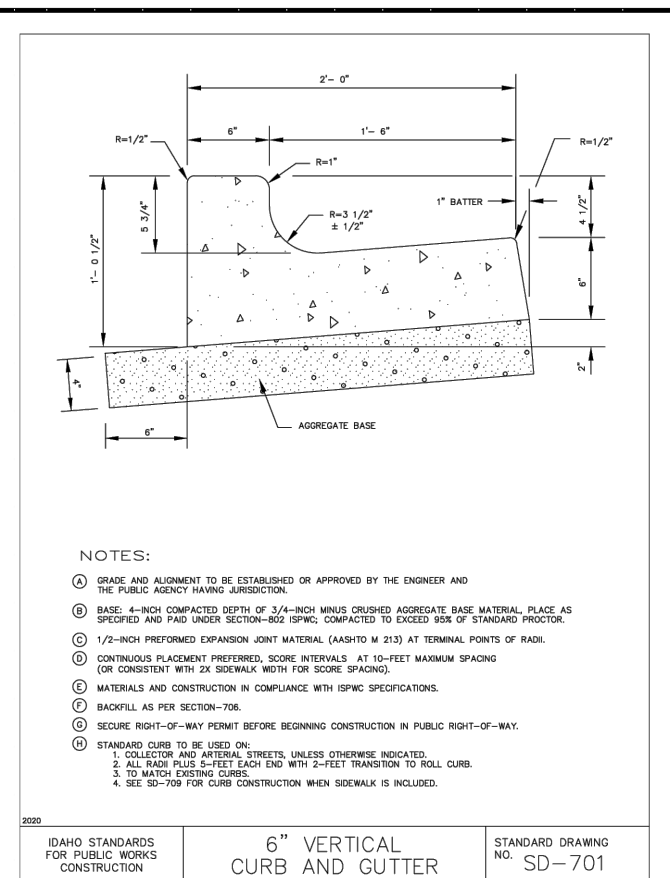
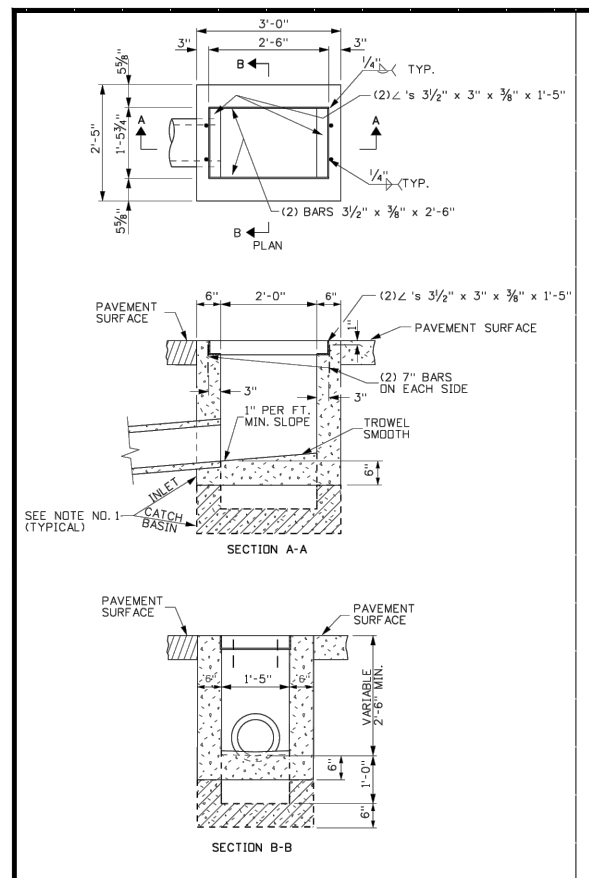


CITY PARKING LOT IMPROVEMENTS
218 CHURCH STREET
SANDPOINT, IDAHO

DATE: 2/3/2025

DETAILS

SHEET: **5** OF 234



X.X CATCH BASIN
 NOT TO SCALE

X.X CURB AND GUTTER
 NOT TO SCALE

X.X VERTICAL CURB
 NOT TO SCALE