

CONSTRUCTION DRAWINGS

TD-3: HIGH SERVICE LEVEL DISTRIBUTION MAIN REPLACEMENT (PHASE III)

SE1/4, SECTION 36, T.36N., R.6W., B.M.
CITY OF LEWISTON, NEZ PERCE COUNTY, IDAHO

SHEET INDEX

GENERAL	
C-1	COVER AND SHEET INDEX
C-2	LEGEND, GENERAL NOTES & QUANTITY SUMMARY
C-3	DETAILS
C-4	OVERALL PARTS LIST & PATCH BACK DETAILS
C-5	PLAN & PROFILE - 3RD STREET
C-6	PLAN & PROFILE - 3RD STREET
C-7	PLAN & PROFILE - 5TH AVENUE
C-8	PLAN & PROFILE - 5TH AVENUE
C-9	PLAN & PROFILE - 5TH AVENUE

SURVEY CONTROL

1. City of Lewiston Survey Control Network 2006, Reference the Record of Survey filed under Instrument Number 738222 of Nez Perce County records for Control Point locations and information.

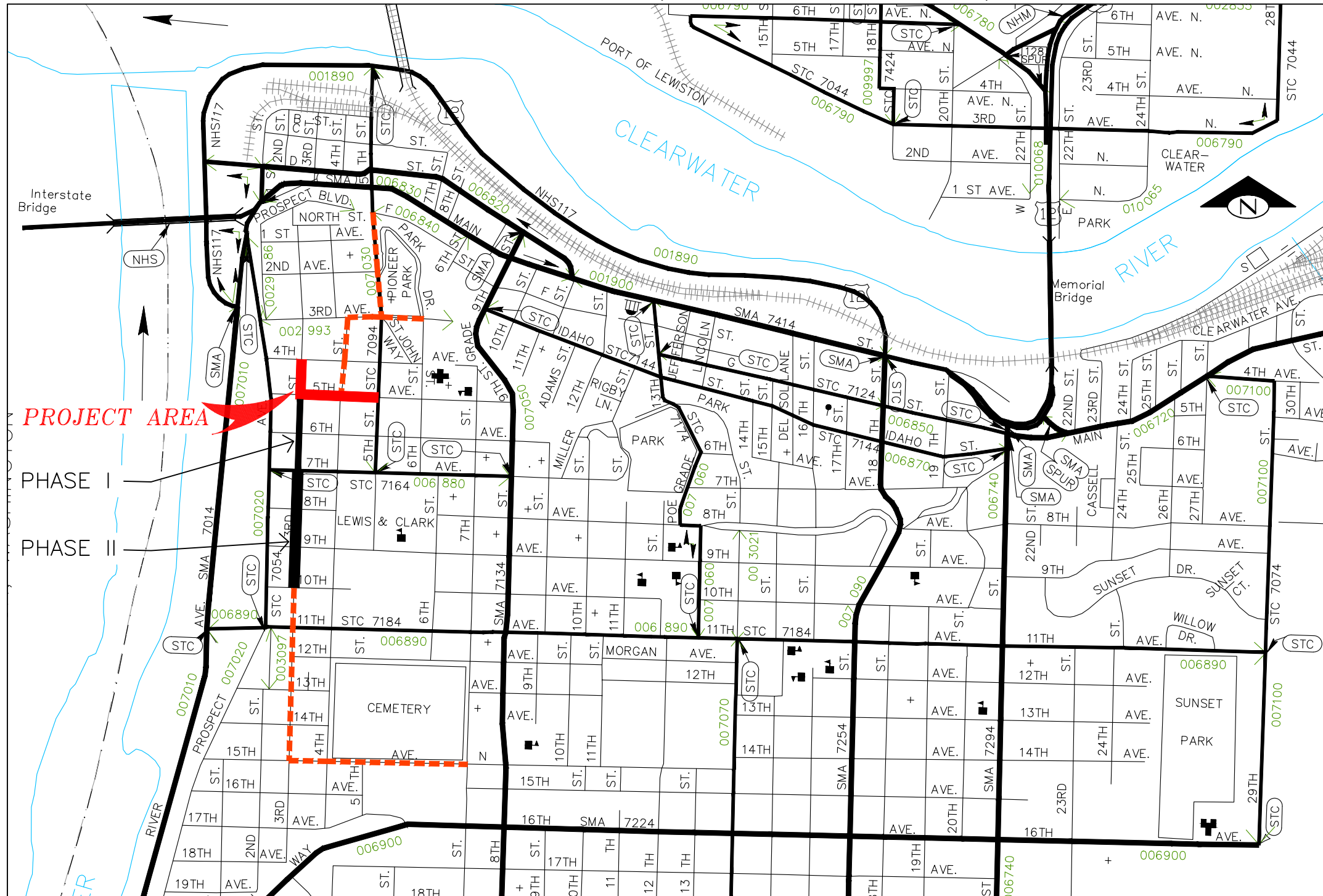
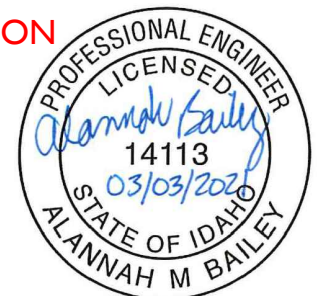
AGENCY TELEPHONE NUMBERS

PUBLIC WORKS DEPARTMENT	208 746-1316
STREETS / TRAFFIC	208 791-2311
WASTEWATER	208 791-0986
AVISTA UTILITIES	208 798-1473
SPARKLIGHT	208 746-3325
CENTURYLINK	208 798-8380
DIGLINE UNDERGROUND UTILITY LOCATE	811



THE LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL PERFORM A SEPARATE INVESTIGATION IN THE FIELD TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES CAN BE OBTAINED FROM CALLING DIG LINE AT 811.

FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.

COVER AND SHEET INDEX

SCALE: 1" = 600'
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-1
SHEET 1 OF 9

LEGEND	
<ul style="list-style-type: none"> STORM DRAIN MANHOLE CATCH BASIN SANITARY SEWER MANHOLE GAS VALVE GATE VALVE FIRE HYDRANT WATER METER IRRIGATION CONTROL BOX IRRIGATION VALVE WATER MANHOLE WATER VAULT 	<ul style="list-style-type: none"> SURVEY MONUMENT IN CASE CENTERLINE MONUMENT PROPERTY PIN ELECTRIC VAULT POWER POLE LIGHT POLE GUY ANCHOR TELEPHONE PEDESTAL TELEPHONE MANHOLE / VAULT
<ul style="list-style-type: none"> CENTERLINE RIGHT-OF-WAY EXISTING WATERLINE EXISTING LOID DOMESTIC WATERLINE (SIZE) EXISTING LOID IRRIGATION LINE (SIZE) EXISTING SANITARY SEWER EXISTING GAS EXISTING TELEPHONE EXISTING FIBER OPTIC EXISTING STORM DRAIN EXISTING UG POWER EXISTING CONCRETE/SIDEWALK EXISTING CURB & GUTTER 	
<ul style="list-style-type: none"> REMOVAL OF BITUMINOUS SURFACE / TYPE "P" SURFACE RESTORATION AREA PROPOSED CURB & GUTTER PROPOSED WATERLINE 	

CONSTRUCTION NOTES

GENERAL:

1. ALL CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND THE 2017 IDAHO STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ISPGWC). IN THE CASE OF CONFLICT, THE PROJECT PLANS AND TECHNICAL SPECIFICATIONS WILL PREVAIL OVER CITY STANDARDS, WHICH WILL PREVAIL OVER ISPGWC.
2. A CITY RIGHT-OF-WAY PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
3. WORK SUBJECT TO APPROVAL MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.
4. INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL CONSTRUCTION SHALL BE BY THE PUBLIC WORKS DEPARTMENT, AND THEIR DECISION SHALL BE FINAL. SUCH INSPECTION SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
5. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH AFFECTED FRANCHISE UTILITIES DURING CONSTRUCTION.
6. PROPERTIES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING THEIR WATER SERVICE OR ACCESS TO THEIR PROPERTY.
7. UNDERGROUND UTILITIES SHALL BE VERIFIED BY NOTIFYING THE ONE CALL (811) THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING EXCAVATION WORK. PROTECT UTILITY MARKINGS DURING CONSTRUCTION. DETERMINE BY HAND DIGGING, IN THE AREA (24 INCHES) OR LESS FROM THE FACILITIES, THE PRECISE ACTUAL LOCATIONS OF UNDERGROUND FACILITIES THAT HAVE BEEN MARKED. COMPLY WITH SECTION 55-2201 OF IDAHO CODE ENTITLED "UNDERGROUND FACILITIES DAMAGE PREVENTION".
8. CONTRACTOR MUST SUBMIT A TRAFFIC CONTROL PLAN AT LEAST 5 WORKING DAY IN ADVANCE OF ANTICIPATED START DATE. APPROVAL OF THE TRAFFIC CONTROL PLAN IS REQUIRED BEFORE WORK BEGINNING ANY WORK.

WATER:

1. CONSTRUCTION OF POTABLE WATER LINES SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)", WHICH IN CASE OF CONFLICT PREVAILS OVER THE STANDARDS REFERENCED IN GENERAL CONDITIONS NOTE NO. 1.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING WATER USERS PRIOR TO DISRUPTING SERVICE. NO USER SHALL BE WITHOUT WATER SERVICE OVERNIGHT OR FOR MORE THAN 4 HOURS DURING NORMAL BUSINESS HOURS.
3. ALL WATER WORKS COMPONENTS SHALL BE ANS/NSF 61 CERTIFIED, AND MUST MEET ALL AMERICAN WATER WORKS ASSOCIATION (AWWA) AND STANDARD REQUIREMENTS OF IDAPA 58.01.08.
4. THE NEW WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND STANDARDS REFERENCED IN GENERAL CONDITIONS NOTE NO. 1. ALL WORK SHALL BE SUBJECT TO ACCEPTANCE BY THE CITY OF LEWISTON PURSUANT TO THE ENGINEERING DEPARTMENT'S CURRENT INSPECTION CHECKLIST.
5. FLUSHING AND DISINFECTION SHALL BE BY THE CITY WATER DIVISION PER ISPGWC 401.3.9 AND IN ACCORDANCE AWWA C651.
6. PRESSURE AND LEAKAGE TEST SHALL BE PER ISPGWC 401.3.6 AND IN ACCORDANCE WITH AWWA C600.
7. ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY.

ROADWAY:

1. ALL ASPHALT JOINTS SHALL BE SAW CUT UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAWINGS.
2. ALL ASPHALT SURFACES AND ADJACENT PAVEMENT, LONGITUDINAL JOINTS, EDGES OF SURFACE UTILITIES AND CURB EDGES SHALL BE TACKED.
3. ALL UTILITIES IN THE PUBLIC RIGHT-OF-WAY SHALL BE ADJUSTED TO MATCH FINISH GRADE. CUTTING AND PAVEMENT PATCHING IS NOT ALLOWED. IF ADJUSTED PRIOR TO PAVING THE UTILITY MUST BE PAVED AROUND. IF ADJUSTED AFTER PAVING CONCRETE COLLARS CONFORMING TO CITY STANDARD DRAWINGS 1-10 AND 5-6 ARE REQUIRED.

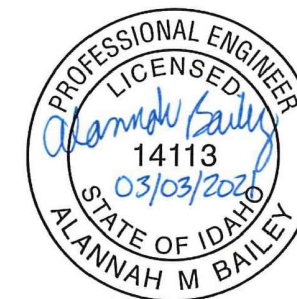
PUBLIC SURVEY MONUMENT:

ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ACTIVITIES MUST BE REFERENCED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO DISTURBANCE. ANY DISTURBED PUBLIC AND PRIVATE MONUMENTS SHALL BE RE-ESTABLISHED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR BEFORE PROJECT COMPLETION. IF MONUMENTS ARE FOUND DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE CONSTRUCTION ON PLANS, THE MONUMENTS MUST BE REFERENCED AND RE-ESTABLISHED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR. SECTION CORNER MONUMENTS DISTURBED AND REESTABLISHED AFTER CONSTRUCTION SHALL HAVE CORNER RECORDS COMPLETED AND RECORDED AT THE NEZ PERCE COUNTY RECORDERS OFFICE.

QUANTITY SUMMARY

ITEM NO.	TAG	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
201.4.1.D.1	①	Removal of Bituminous Surface	SY	1,006
201.4.1.E.1	②	Removal of Curb	LF	0
201.4.1.F.1	③	Removal Water Main & Appurtenances	EA	10
401.4.1.A.1	④	Water Main Pipe - 4" C900, DR18	LF	24
401.4.1.A.2	⑤	Water Main Pipe - 6" Ductile Iron CL 350	LF	5
401.4.1.A.4	⑦	Water Main Pipe - 8" C900, DR18	LF	758
401.4.1.A.5	⑧	Water Main Pipe - 12" C900, DR18	LF	417
401.4.1.B.1	⑨	Water Main Fitting - 4"	EA	6
401.4.1.B.2	⑩	Water Main Fitting - 6"	EA	2
401.4.1.B.3	⑪	Water Main Fitting - 8"	EA	12
401.4.1.B.5	⑬	Water Main Fitting - 12"	EA	9
401.4.1.C.1	⑮	Connect to Existing - 4"	EA	2
401.4.1.C.2	⑯	Connect to Existing - 6"	EA	1
401.4.1.C.3	⑰	Connect to Existing - 8"	EA	2
401.4.1.C.5	⑲	Connect to Existing - 12"	EA	1
402.4.1.A.1	⑳	Valve - 6" Gate	EA	1
402.4.1.A.2	㉑	Valve - 8" Gate	EA	9
402.4.1.A.3	㉒	Valve - 12" Gate	EA	2
403.4.1.A.1	⑭	Hydrant	EA	1
404.4.1.A.1	㉓	Water Service Connection - 3/4"	EA	22
404.4.1.A.2	㉔	Water Service Connection - 1"	EA	1
404.4.1.B.1	㉕	Water Service Pipe - 3/4"	LF	457
404.4.1.B.2	㉖	Water Service Pipe - 1"	LF	27
706.4.1.A.5	㉗	Standard 6-Inch Vertical Curb and Gutter	LF	0
810.4.1.A.3	㉘	Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Agg.	SY	1,006
1103.4.1.A.1		Construction Traffic Control	LS	1
2010.4.1.A.1		Mobilization	LS	1
SP1	㉙	Sewer Main Crossing	EA	2
SP2		Construction Surveying	LS	1

FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.**

LEGEND, GENERAL NOTES & QUANTITY SUMMARY

SCALE: N/A
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-2
SHEET 2 OF 9

ASPHALT PATCH THICKNESS SHALL BE NO LESS THAN THAT OF THE STREET CLASSIFICATION OR EXISTING THICKNESS WHICHEVER IS GREATER. PATCHES MUST BE PLACED IN TWO LIFTS.

APPROVED BASE MATERIAL

TRENCH ZONE
3/4" MINUS (CURRENT TO SPEC 703.04)
OR 5/8" MINUS (CURRENT W007/M41-10 SPEC 9-03.9)
COMPACTED TO 95% WGTIFIED PROCTOR AS PER AASHTO T193

IMPORTED PIPE ZONE MATERIAL

NEW PIPE

SHAPE AND COMPACT BASE FOR EACH BELL

O.D. PIPE + 24" (MIN. WITH 18" UNLESS COMPLETELY FILLED WITH COF)

STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

NOTES:

- CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
- ALL TRENCHES EXCAVATED WITHIN EXISTING PAVED STREETS SHALL BE BACKFILLED AND SURFACED THE SAME DAY WITH A 2" THICK COMPACTED COLD MIX ASPHALT PATCH (SMOOTH) - TO BE REPLACED WITH THE CITY'S STANDARD HOT MIX ASPHALT SURFACING AS SOON AS SCHEDULING ALLOWS, UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER.
- THE NEW ASPHALT PATCH SHALL MATCH THE EXISTING PAVEMENT GRADE. ACROSS THE WIDTH OF THE TRENCH THE NEW SURFACE SHALL BE FLUSH OR UP TO 1/4" ABOVE THE EXISTING PAVEMENT GRADE.
- EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH AND IN CONTINUOUS, STRAIGHT LINES. BROKEN EDGES WILL NOT BE ALLOWED. PAVEMENT CUTS SHALL BE TACKED IMMEDIATELY PRIOR TO INSTALLATION OF THE HOT MIX PATCH.
- AFTER BACKFILLING TRENCH REMOVE ALL BROKEN OR LOOSE ASPHALT OR CONCRETE BEYOND IN THE INITIAL TRENCH.
- PATCH CANNOT OVERLAP ANOTHER PARALLEL PATCH AND CANNOT LEAVE EXISTING ASPHALT LESS THAN 36" WIDE.
- JOINTS TO BE TACKED AND SANDED WITH EMULSIFIED TACK.
- ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.

CLASS "F" EXISTING STREETS BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT CONCRETE CURB, SIDEWALK, DRIVEWAY, GRAVEL SURFACING WILL BE REPLACED.

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**BACKFILL-
CLASS "F"**

APPROVED FOR PUBLICATION
Date 3/5/23
City Engineer

DWG. NO. 1-7

6" DEEP CONCRETE COLLAR - FLUSH WITH ASPHALT SURFACE W/ SURFACE TOLERANCE OF +0 TO -1/4"

MIN. 24" DIAMETER

VARIABLES

SINGLE #4 REBAR HOOP

CONCRETE COLLAR

COMPACTED FILL MIN. OF 92% TO 95% DRY DENSITY TEST

LENGTH OF STEM TO BE DETERMINED BY ADJUSTMENT DIFFERENCE.

SINGLE #4 REBAR HOOP

SAWCUT CLEAN VERTICAL CUT

TOOLED JOINTS

LABEL

MIN. 24" DIAMETER

STANDARD FOR WATER & GAS VALVES AND MONUMENTS

NOTES:

- A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 6" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
- CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS. WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
- ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL. ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
- UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**WATER & GAS VALVES,
AND MONUMENTS
ADJUST UTILITIES**

APPROVED FOR PUBLICATION
Date 12/14/17
City Engineer

DWG. NO. 1-10

HIGH BACK CURB & GUTTER

ROLLED CURB & GUTTER

ALL TOLERANCES ARE ±1/4" UNLESS OTHERWISE NOTED

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**HIGH BACK CURB & GUTTER
ROLLED CURB & GUTTER**

APPROVED FOR PUBLICATION
Date 2-5-09
City Engineer

DWG. NO. 2-7

HORIZONTAL REQUIREMENTS:

ZONE 1: MORE THAN 10 FEET APART
NO SPECIAL REQUIREMENTS

ZONE 2: FROM 6 TO 10 FEET APART

A. No special requirements for service lines.
B. Potable and non-potable mains separated by at least 6 feet at outside walls and 1. Potable mains higher in elevation than the non-potable mains and 2. Non-potable mains constructed to with potable water cross pipe and pressure tested for water tightness.

ZONE 3: CLOSER THAN 6 FEET APART
NOT ALLOWED

VERTICAL REQUIREMENTS:

ZONE 1: POTABLE LINE 18" OVER NON-POTABLE LINE
Potable water and non-potable mains and service lines must be separated by at least 18 inches and
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the crossing.

ZONE 2: POTABLE LINE 6" OVER NON-POTABLE LINE
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the non-potable line and either a or b
a) Non-potable line must be constructed to either water pipe standards and pressure tested for water tightness for a horizontal distance of ten feet on both sides of the crossing.
b) Non-potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of ten feet on both sides of the crossing, with no joints.

ZONE 3: POTABLE WATER 18" UNDER NON-POTABLE LINE
Same requirements as Zone 2 except the non-potable line must also be supported above the crossing to prevent settling.

ZONE 4: POTABLE WATER 18" UNDER NON-POTABLE LINE
Same requirements as Zone 1 except the non-potable line must also be supported above the crossing to prevent settling.

GENERAL NOTES:

- Sanitary force mains shall have at least ten feet of horizontal separation and eighteen inches of clearance from potable water mains. Zone 2 and 3 placements are prohibited.
- Separation requirements also apply to potable and non-potable service lines controlled by the system owner and extending the main line to the property line, service meter, or cleanout.

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**POTABLE & NON-POTABLE
WATERLINE SEPARATION**

APPROVED FOR PUBLICATION
Date 11-2-09
City Engineer

DWG. NO. 4-1

EXISTING GROUND OR FINISHED GRADE

WATER

EXTENSION PIECE

5 7/8"

13" 18" AS SPECIFIED

LENGTH AS SPECIFIED

SEE ADJUST UTILITIES
SEE CITY STD DWG #1-10

CONCRETE APRON IF VALVE INSTALLED OUTSIDE PAVEMENT SECTION

LOCATE WIRE TO BE MIN. OF 30" (LONG ENOUGH TO BE PULLED UP & OUT TO ABOVE GROUND LEVEL.

LOCATE WIRE

VALVE

BEDDING

ORIGINAL GROUND

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**GATE VALVE BOX
WITH ASSEMBLY**

APPROVED FOR PUBLICATION
Date 11-9-09
City Engineer

DWG. NO. 4-2

TEE

CROSS

WYE

PLUG OR CAP

BEND

1.5 min.

Fitting Size Rod Size Embedment

12" & less #3 30"

14" & 16" #4 36"

Plugs to be min. of 15" from Tee, Wye or Cross.

Cal. Rods Over Fitting and Embedded in Concrete

BEARING AREA OF THRUST BLOCKS IN SQ. FT.

Fitting Size	Tee, Wye, Plug or Cap	90° Bend	45° Bend	22 1/2° Bend	11 1/4° Bend
4	1.0	1.4	1.0	---	---
6	2.1	3.0	1.6	1.0	---
8	3.8	5.3	2.9	1.5	1.0
10	5.9	8.4	4.6	2.4	1.2
12	8.5	12.0	6.6	3.4	1.7
14	11.5	16.3	8.9	4.6	2.3
16	15.0	21.3	11.6	6.0	3.0
18	19.0	27.0	14.6	7.6	3.8
20	23.5	33.3	18.1	9.4	4.7
24	34.0	48.0	26.2	13.6	6.8

VOLUME OF THRUST BLOCK IN CU. YD.

Fitting Size	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	---	---	---	---
6	1.3	---	---	---
8	2.3	1.1	---	---
10	3.7	1.8	---	---
12	5.5	2.8	1.2	---
14	7.6	3.9	1.7	---
16	9.9	5.1	2.3	0.9
18	---	6.3	3.2	1.4
20	---	7.7	4.0	1.8
24	---	11.1	5.7	2.6

NOTES:

- Bearing areas based on test pressure of 150 p.s.i. & soil bearing stress of 2,000 lbs. per sq. ft. To areas for different test pressure & soil bearing stresses, following equation: BEARING AREA = (150 p.s.i. test pressure) x (2000 lbs soil bearing stress) x (table value).
- Concrete thrust blocking to be placed against undisturbed earth.
- Keep concrete clear of joint and accessories.
- The required thrust bearing areas for special connections are shown encircled on the plans; e.g. AS indicates 15 sq. ft. bearing area required.
- If not shown on plans, required bearing areas at fittings shall be as indicated above, adjusted if necessary, to conform to the test pressure(s) & allowable soil bearing stress(es) stated in the Special Specifications.
- Bearing areas & special blocking details shown on plans take precedence over bearing areas & blocking details shown on this standard detail.
- Concrete Compressive Strength shall be 2,500 p.s.i. minimum.
- Concrete will be allowed 48 hrs. to set if high early yield concrete is used, otherwise, 7 days curing will be required.

Thrust blocks for vertical up-bends shall be the same as for horizontal bends.

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**THRUST BLOCKING
DETAIL**

APPROVED FOR PUBLICATION
Date 11-9-09
City Engineer

DWG. NO. 4-4

NO 12 AWG COPPER WIRE FINDER - EXTEND TRACE WIRE 12" ABOVE GRADE & WRAP AROUND HYDRANT

TWO 2 1/2" HOSE CONNECTION W/ THREADS

HYDRANT OFFSET

SEE NOTE 2

SEE VALVE BOX AND ASSEMBLY DETAIL #4-2

FLANGE ELEV.

MIN 20" = MAX 24"

TO SUIT TRENCH DEPTH

STABLE LEVEL GROUND

3" MINIMUM

1" TAP FOR SAMPLING CHLORINATION

6" FLANGED FIRE HYDRANT TEE

THRUST BLOCK

4" x 8" x 16" CONCRETE BLOCK

HYDRANT SHOE

PLASTIC BARRIER BETWEEN THRUST BLOCK & TEE

BACKFILL TO TOP OF DRAIN RING HOUSING BOLTS WITH 3 CUBIC FEET OF WASHED ROCK

CONCRETE THRUST BLOCK CAST-IN-PLACE AGAINST FITTING ONLY

NOTES:

- FIRE HYDRANT SHALL BE WATEROUS PACER WITH 16" UPPER STANDPIPE, UNLESS OTHERWISE APPROVED BY CITY ENGINEERS.
- HARRINGTON STORZ ADAPTER (4 1/2" NH x 5" STORZ) AND BLIND CAP (5" STORZ) W/ AIRCRAFT CABLE AT THE 4 1/2" PUMPER NOZZLE.
- FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
- A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED STABLE LEVEL WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS AND NOT WITHIN HIGH WATER AREA.
- GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.

**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**FIRE HYDRANT
W/ SHUT-OFF VALVE**

APPROVED FOR PUBLICATION
Date 2/2/20
City Engineer

DWG. NO. 4-12

STREET SURFACE

INSTALL METER 12"-18" BELOW FINISH GRADE

3/8" MIN. COVER

NO LEAD FITTINGS OR COMPONENTS. NO GRIP FITTINGS SHALL BE USED ON COPPER PIPING. 12 GAUGE TRACER WIRE SHALL BE INSTALLED WITH PEK SERVICE LINE, IF NOT INSTALLED AT 90° FROM WATER MAIN.

1" SERVICE COMPONENTS

- 1" US K COPPER OR PEK Type "A" PIPE
- 1" FORD IP CORP B500-4-NL CORPORATION STOP
- 1" FxPJ COUPLING C-14-44-NL
- 1" B-41-444-NL BALL VALVE CURB STOP
- 1" MxPJ 90° LB4-44-NL
- THE PIPE FROM THE 90° [PART 5] TO THE COPPER SETTER SHALL BE COPPER
- METER COPPER SETTER WITH DUAL CHECK - PXPJP COPPER SETTER 1" HH 82W-44-44
- 2" PVC TUBE (RISER EQUIVALENT)
- 24" DIA. HDPE PIPE - 30" DEEP
- IF NOT LOCATED IN SIDEWALK OR ROADWAY, INSTALL 24"x20" EXTENSION RING WITH 20" FORD X3-1 METER BOX COVER (AS SHOWN IN DETAIL, STANDARD INSTALLATION) IF LOCATED IN SIDEWALK OR ROADWAY, INSTALL EAST JORDAN IRON WORKS 24" ERGO Catalog #00104012101 (NOT SHOWN)
- THE COPPER SERVICE PIPE ON THE CUSTOMER SIDE OF THE METER MUST EXTEND 1" OUTSIDE THE METER BOX.

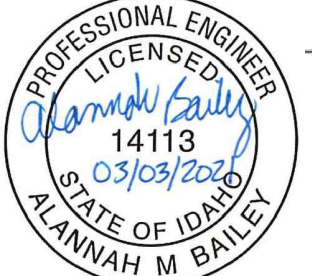
**CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT**

**1" WATER SERVICE
CONNECTION**

APPROVED FOR PUBLICATION
Date 2/2/20
City Engineer

DWG. NO. 4-7

**FOR CONSTRUCTION
3/29/2021**



REVISIONS			
NO.	DATE	DESCRIPTION	BY

**CITY OF LEWISTON
PUBLIC WORKS
DEPARTMENT
1861**

215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.**

DETAILS

SCALE: N/A
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-3
SHEET 3 OF 9

Fitting Table

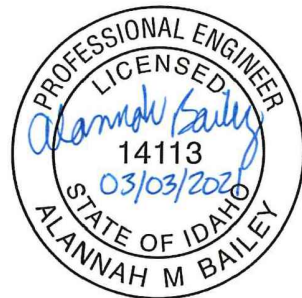
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL ELEV.
F-48	0+86.99	0.00	6" MJ SLEEVE	1734055.87	2301871.41	817.70
F-49	0+88.08	0.00	8" x 6" REDUCER	1734054.79	2301871.40	817.70
F-50	0+91.74	0.00	8" MJ 45 ELL	1734051.12	2301871.36	817.70
F-51	1+26.79	0.00	8" MJ 45 ELL	1734025.89	2301895.69	817.65
F-52	70+00.00	-1.58	12" x 8" FL REDUCER	1733704.32	2301889.77	815.40
F-53	4+50.00	0.00	12" FL CROSS	1733702.73	2301889.75	815.40
F-54	69+98.42	0.00	12" x 8" FL REDUCER	1733702.76	2301888.16	815.40
F-55	69+95.15	0.00	8" MJ CAP	1733702.81	2301884.90	815.40
F-56	4+59.29	0.00	12" MJ 11 ELL	1733693.45	2301889.58	815.40
F-57	4+69.65	0.00	12" MJ 11 ELL	1733683.26	2301891.43	815.40
F-58	73+78.04	0.00	12" FL CROSS	1733696.72	2302267.73	830.80
F-59	73+78.03	-22.95	12" x 4" REDUCER	1733719.66	2302268.09	831.00
F-60	73+78.03	-25.64	4" MJ 45 ELL	1733722.36	2302268.13	831.00
F-61	73+87.09	-34.72	4" MJ 45 ELL	1733731.28	2302277.34	830.45
F-62	73+87.16	-36.00	4" MJ SLEEVE	1733732.56	2302277.43	830.45
F-63	73+78.03	1.58	12" x 8" FL REDUCER	1733695.13	2302267.71	830.80
F-64	73+78.03	27.03	8" x 4" REDUCER	1733669.69	2302267.30	831.15
F-65	73+78.03	30.60	4" MJ 45 ELL	1733666.12	2302267.25	831.15
F-66	73+84.01	36.57	4" MJ 45 ELL	1733660.05	2302273.12	830.20
F-67	73+83.99	37.89	4" MJ SLEEVE	1733658.73	2302273.09	830.20
F-68	73+79.62	0.00	12" x 8" FL REDUCER	1733696.69	2302269.32	830.80
F-69	74+07.84	0.00	8" x 6" MJ x FL TEE	1733696.24	2302297.53	830.85
F-70	77+52.66	0.00	8" x 8" FL CROSS	1733690.75	2302642.32	838.10
F-71	77+57.69	0.00	8" MJ CAP	1733690.67	2302647.34	838.10
F-72	77+52.66	-3.26	8" ROMAC 501	1733694.01	2302642.37	838.10
F-73	77+52.66	3.36	8" ROMAC 501	1733687.39	2302642.26	838.10
F-74	77+50.78	28.52	8" MJ CAP	1733662.27	2302639.98	838.10
F-75	69+71.09	27.09	6" MJ CAP	1733676.10	2301860.41	814.70
F-76	70+04.85	28.91	8" MJ CAP	1733673.75	2301894.14	816.54

Pressure Pipe Table

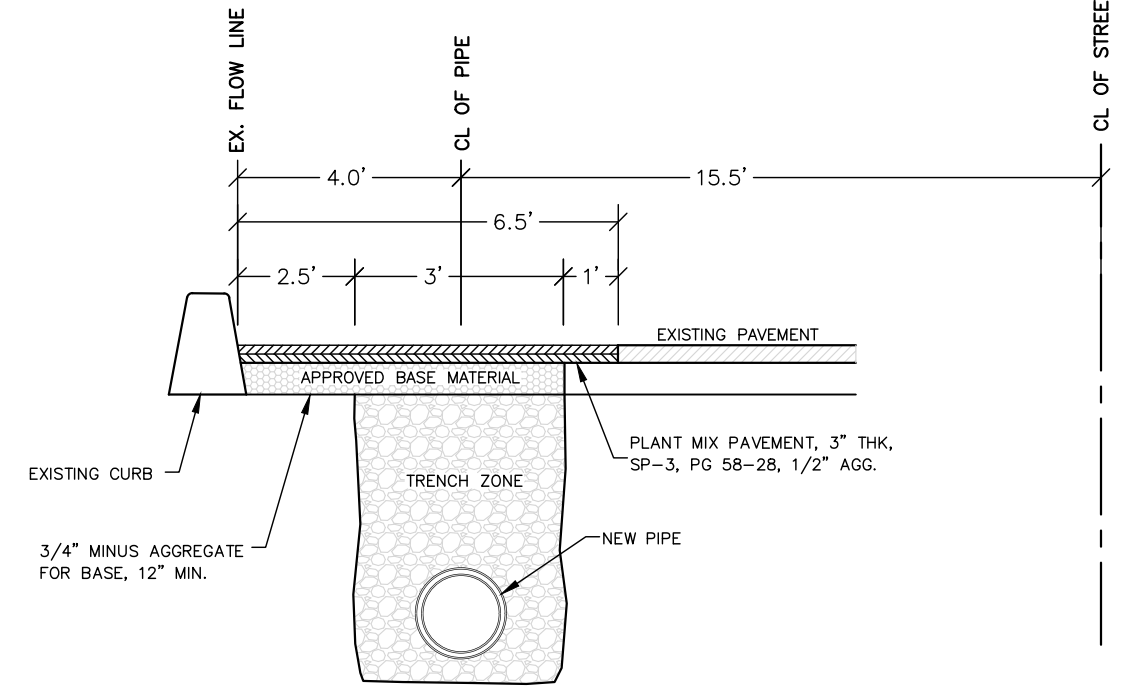
TAG	Length	DESCRIPTION
P-43	0.75	8" C900 DR 18
P-44	0.99	8" C900 DR 18
P-45	34.13	8" C900 DR 18
P-46	160.36	8" C900 DR 18
P-47	62.40	8" C900 DR 18
P-48	96.80	8" C900 DR 18
P-49	7.67	12" C900 DR 18
P-50	9.11	12" C900 DR 18
P-51	4.85	12" C900 DR 18
P-52	1.65	8" C900 DR 18
P-53	172.75	12" C900 DR 18
P-54	202.03	12" C900 DR 18
P-55	19.78	12" C900 DR 18
P-56	1.44	4" C900 DR 18
P-57	12.16	4" C900 DR 18
P-58	23.04	8" C900 DR 18
P-59	2.45	4" C900 DR 18
P-60	7.78	4" C900 DR 18
P-61	25.86	8" C900 DR 18
P-62	4.57	6" DI CLASS 350
P-63	116.41	8" C900 DR 18
P-64	225.89	8" C900 DR 18
P-65	3.25	8" C900 DR 18
P-66	1.19	8" C900 DR 18
P-67	1.29	8" C900 DR 18

Appurtenance Table

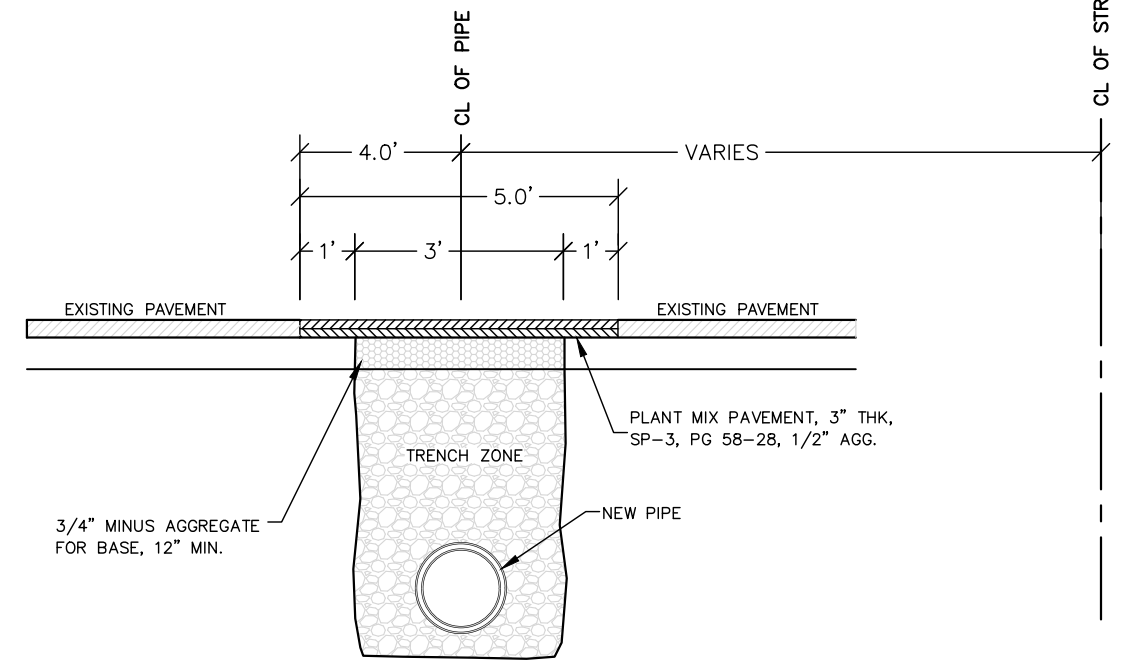
TAG	STATION	OFFSET	DESCRIPTOPN	NORTHING	EASTING	CL ELEV.
A-18	0+89.96	0.00	8" MJ GV	1734052.91	2301871.38	817.70
A-19	70+00.00	-2.68	8" FL x MJ GV	1733705.41	2301889.79	815.40
A-20	69+97.32	0.00	8" FL x MJ GV	1733702.78	2301887.07	815.40
A-21	70+01.62	0.00	12" FL x MJ GV	1733702.71	2301891.37	815.40
A-22	73+78.04	-1.63	12" FL x MJ GV	1733698.34	2302267.76	831.15
A-23	73+78.03	2.68	8" FL x MJ GV	1733694.04	2302267.69	830.80
A-24	73+80.71	0.00	8" FL x MJ GV	1733696.67	2302270.41	830.80
A-25	74+07.84	-1.19	6" FL GV	1733697.43	2302297.55	831.70
A-26	74+07.84	-6.63	4' BURY HYDRANT	1733702.87	2302297.64	831.70
A-27	77+51.40	0.00	8" FL x MJ GV	1733690.77	2302641.05	838.10
A-28	77+52.66	-1.26	8" FL x MJ GV	1733692.02	2302642.34	838.10
A-29	77+52.66	1.26	8" FL x MJ GV	1733689.49	2302642.30	838.10
A-30	77+53.93	0.00	8" FL x MJ GV	1733690.73	2302643.58	838.10



FOR CONSTRUCTION
3/29/2021



TYPICAL SECTION (PATCH BACK WITH CURB)



TYPICAL SECTION (PATCH BACK, INTERSECTIONS)

REVISIONS			
NO.	DATE	DESCRIPTION	BY

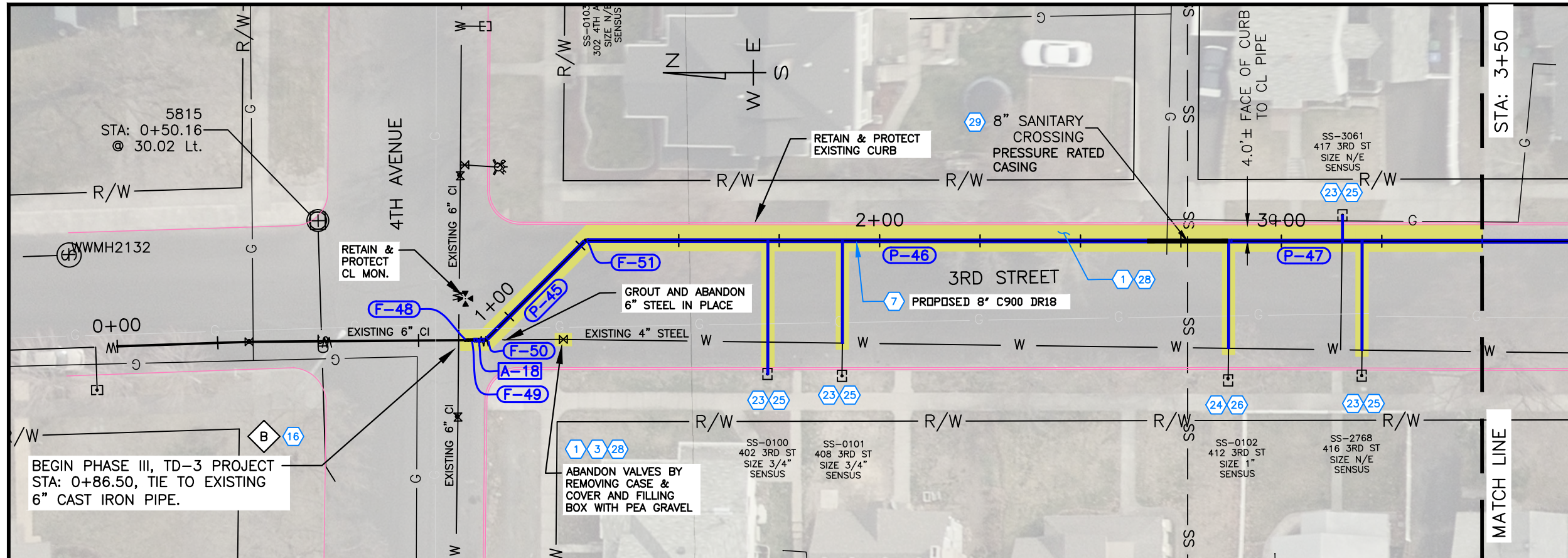
215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.

OVERALL PARTS LIST & PATCH BACK DETAILS

SCALE: N/A
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-4
SHEET 4 OF 9

File Name: C:\Shared drives\Public Works CAPITAL\Water_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\PHASE-3\WR503-PLANS-P3-3RD.dwg Printed 3/30/2021 10:04 AM By Bruce Stewart



BEGIN PHASE III, TD-3 PROJECT
STA: 0+86.50, TIE TO EXISTING
6" CAST IRON PIPE.

SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	221 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	1 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	259 L.F.
10 Water Main Fitting - 6" (See Fitting Table This Sheet), Item 402.4.1.B.2	1 EA.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	3 EA.
16 Connect to Existing Main - 6", Item 401.4.1.C.2	1 EA.
21 Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	1 EA.
23 Water Service Connection, 3/4", Item 404.4.1.A.1	4 EA.
24 Water Service Connection, 1", Item 404.4.1.A.2	1 EA.
25 Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	92 L.F.
26 Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	27 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	221 S.Y.
29 Sewer Main Crossing, Item SP-1	1 EA.

Appurtenance Table

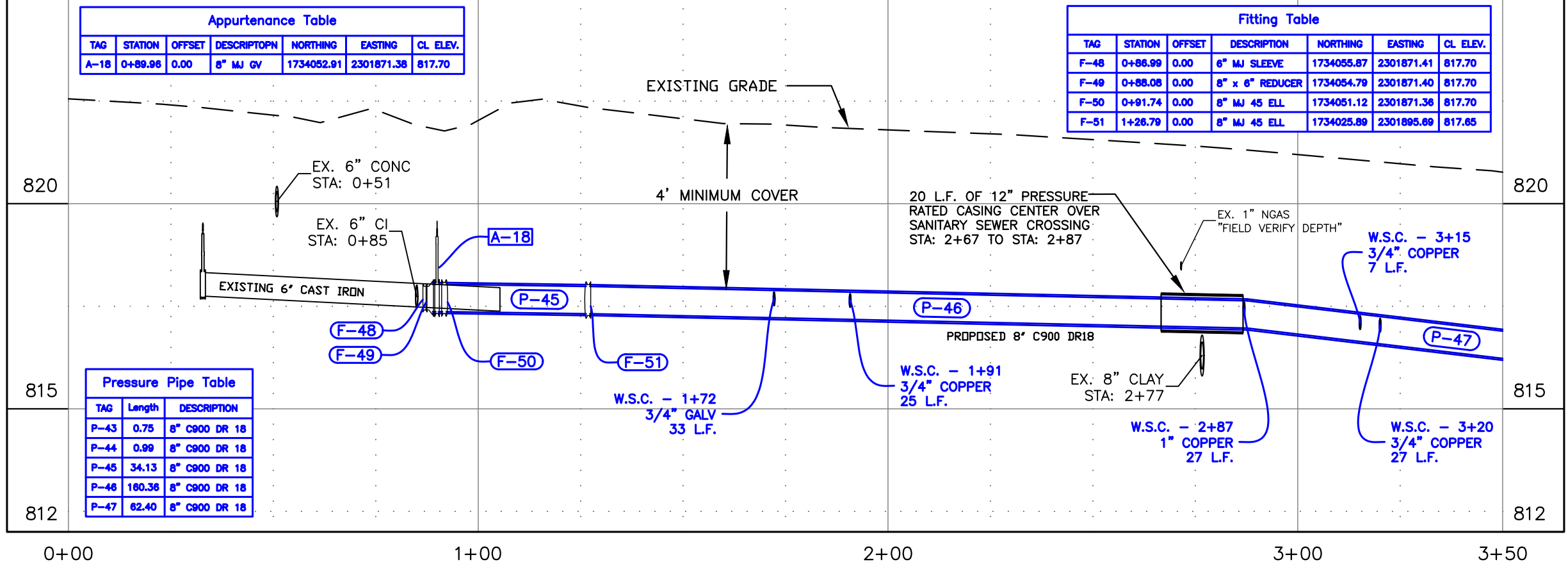
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-18	0+89.96	0.00	8" MJ GV	1734052.91	2301871.38	817.70

Fitting Table

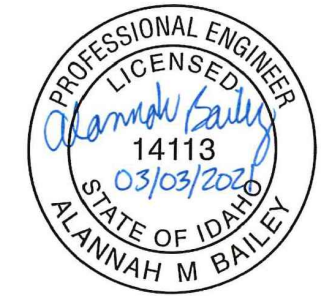
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-48	0+86.99	0.00	6" MJ SLEEVE	1734055.87	2301871.41	817.70
F-49	0+86.08	0.00	8" x 6" REDUCER	1734054.79	2301871.40	817.70
F-50	0+91.74	0.00	8" MJ 45 ELL	1734051.12	2301871.36	817.70
F-51	1+26.79	0.00	8" MJ 45 ELL	1734025.89	2301895.69	817.65

Pressure Pipe Table

TAG	Length	DESCRIPTION
P-43	0.75	8" C900 DR 18
P-44	0.99	8" C900 DR 18
P-45	34.13	8" C900 DR 18
P-46	180.36	8" C900 DR 18
P-47	62.40	8" C900 DR 18



FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



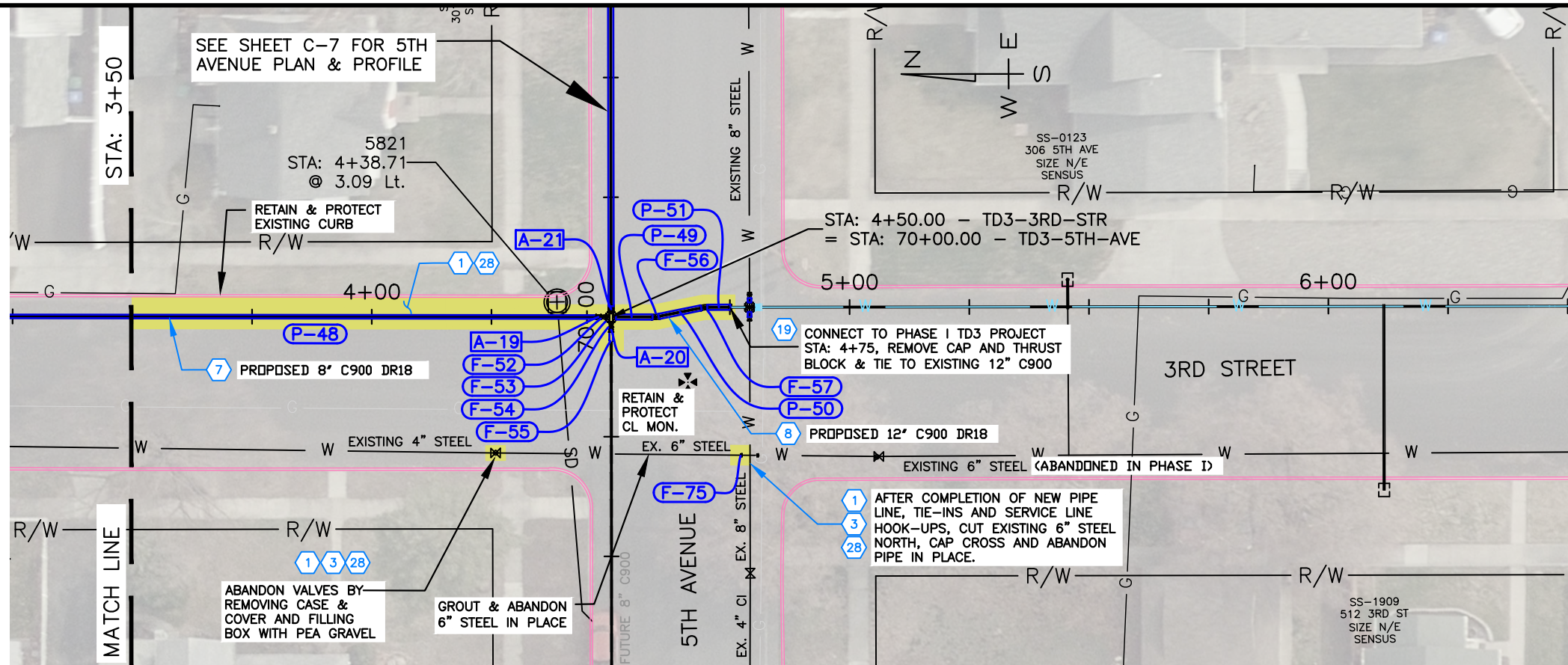
**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 3RD STREET 4TH TO 5TH AVE**

PLAN & PROFILE - 3RD STREET

SCALE: 1" = 30'

DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-5
SHEET 5 OF 9

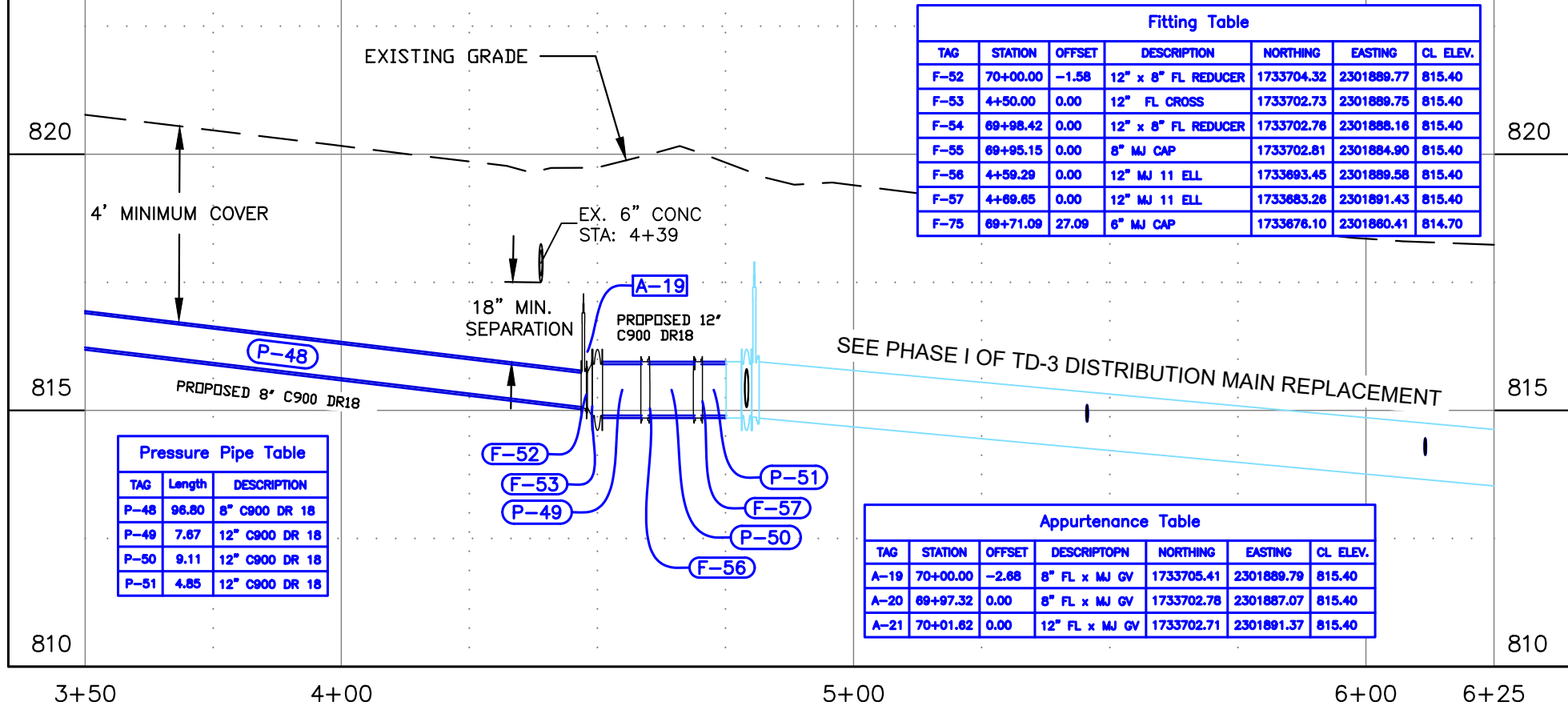
File Name: C:\Shared drives\Public Works\CAPITAL\Water_Distribution\WR503-PRP-TD3-Inhouse\dwg\Production Drawings\PHASE-3\WR503-PLANS-P3-3RD.dwg Printed 3/30/2021 10:04 AM By Bruce Stewart



SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	90 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	2 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	97 L.F.
8 Water Main Pipe - 12" C900 DR18 Type, Item 401.4.1.A.5	22 L.F.
10 Water Main Fitting - 6" (See Fitting Table This Sheet), Item 402.4.1.B.2	1 EA.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	1 EA.
13 Water Main Fitting - 12" (See Fitting Table This Sheet), Item 402.4.1.B.5	5 EA.
19 Connect to Existing Main - 12", Item 401.4.1.C.5	1 EA.
21 Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	2 EA.
22 Valve - Size 12", (See Appurtenance Table This Sheet), Item 402.4.1.A.3	1 EA.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	90 S.Y.



Fitting Table

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-52	70+00.00	-1.58	12" x 8" FL REDUCER	1733704.32	2301889.77	815.40
F-53	4+50.00	0.00	12" FL CROSS	1733702.73	2301889.75	815.40
F-54	69+98.42	0.00	12" x 8" FL REDUCER	1733702.78	2301888.18	815.40
F-55	69+95.15	0.00	8" MJ CAP	1733702.81	2301884.90	815.40
F-56	4+59.29	0.00	12" MJ 11 ELL	1733693.45	2301889.58	815.40
F-57	4+69.65	0.00	12" MJ 11 ELL	1733683.26	2301891.43	815.40
F-75	69+71.09	27.09	6" MJ CAP	1733676.10	2301860.41	814.70

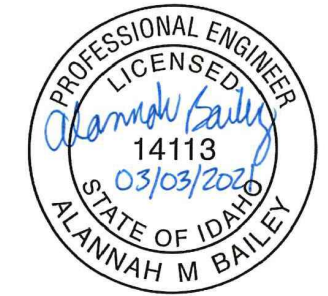
Pressure Pipe Table

TAG	Length	DESCRIPTION
P-48	96.80	8" C900 DR 18
P-49	7.67	12" C900 DR 18
P-50	9.11	12" C900 DR 18
P-51	4.85	12" C900 DR 18

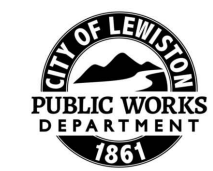
Appurtenance Table

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-19	70+00.00	-2.68	8" FL x MJ GV	1733705.41	2301889.79	815.40
A-20	69+97.32	0.00	8" FL x MJ GV	1733702.78	2301887.07	815.40
A-21	70+01.82	0.00	12" FL x MJ GV	1733702.71	2301891.37	815.40

FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

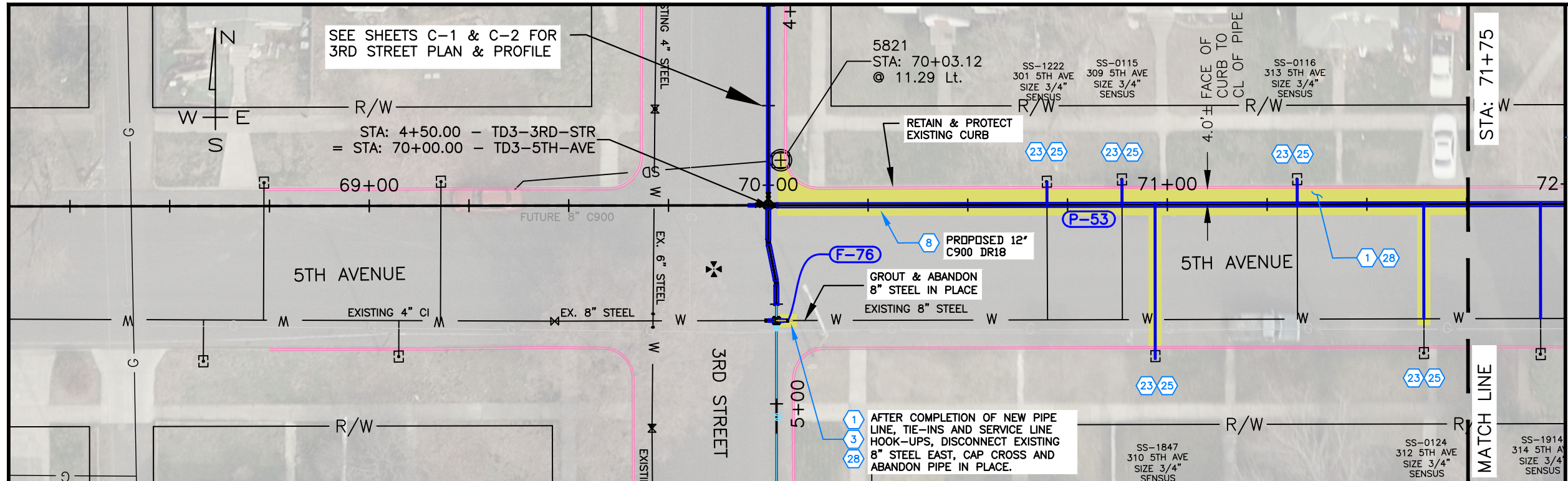
**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 3RD STREET 4TH TO 5TH AVE**

PLAN & PROFILE - 3RD STREET

SCALE: 1" = 30'

DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-6
SHEET 6 OF 9

File Name C:\Shared drives\Public Works CAPITAL\Water_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\PHASE-3\WR503-PLANS-P3-5TH.dwg Printed 3/30/2021 10:05 AM By Bruce Stewart



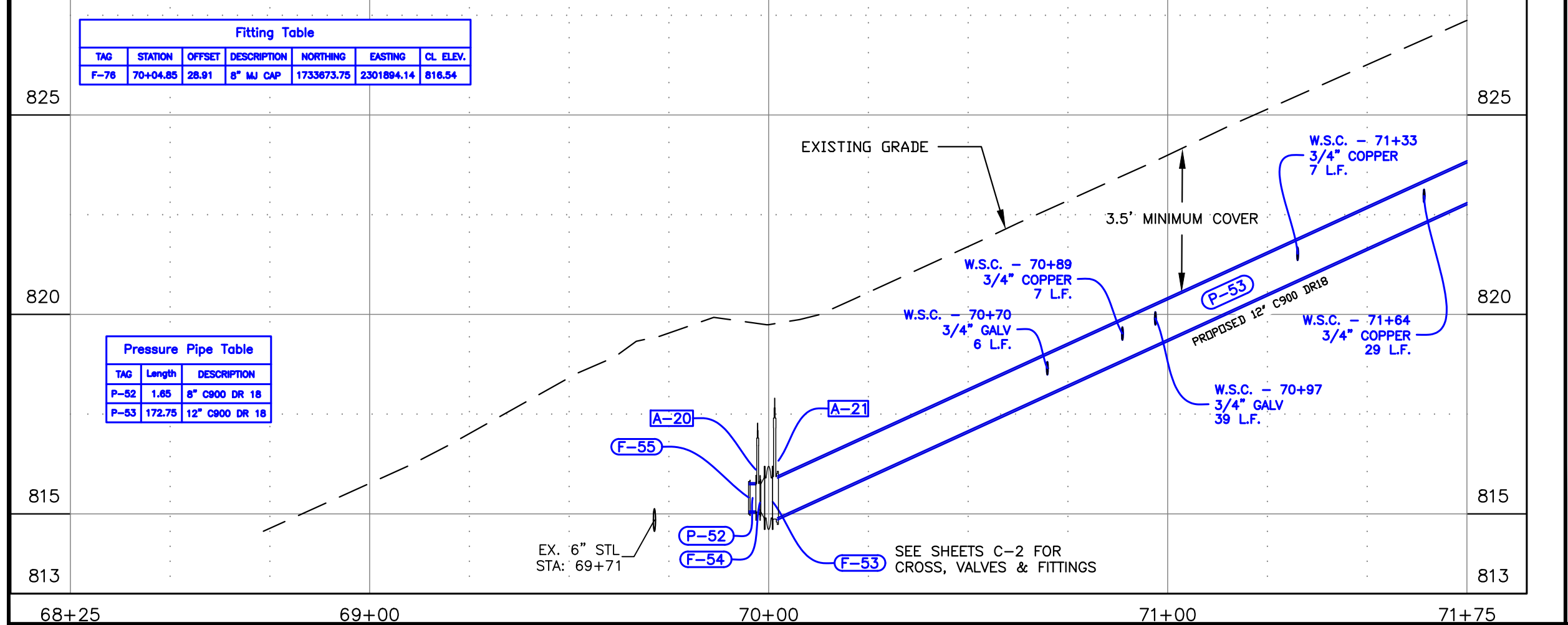
SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

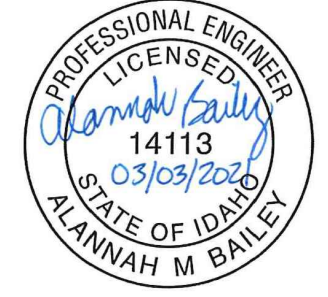
PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	150 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	1 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	2 L.F.
8 Water Main Pipe - 12" C900 DR18 Type, Item 401.4.1.A.5	173 L.F.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	1 EA.
23 Water Service Connection, 3/4", Item 404.4.1.A.1	5 EA.
24 Water Service Connection, 1", Item 404.4.1.A.2	0 EA.
25 Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	88 L.F.
26 Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	0 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	150 S.Y.

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-76	70+04.85	28.91	8" MJ CAP	1733673.75	2301894.14	816.54

TAG	Length	DESCRIPTION
P-52	1.85	8" C900 DR 18
P-53	172.75	12" C900 DR 18



FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



215 "D" Street, Lewiston, ID 83501-1930
Phone: 208-746-1316 Fax: 208-746-5595

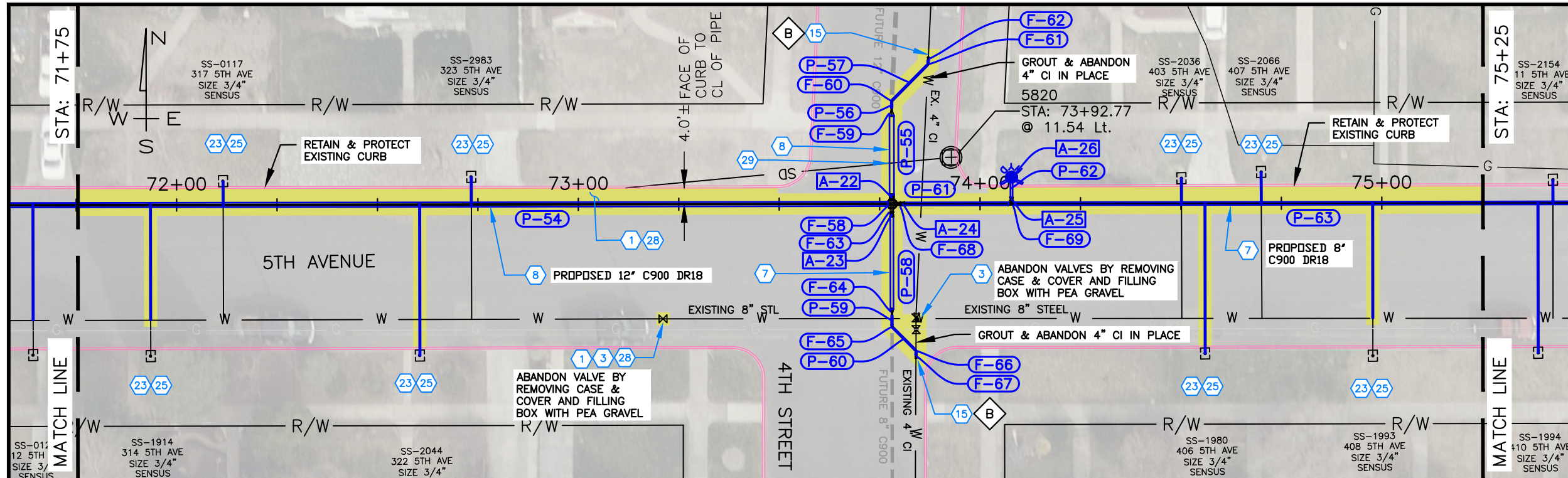
**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.**

PLAN & PROFILE - 5TH AVENUE

SCALE: 1" = 30'

DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-7
SHEET 7 OF 9

File Name: C:\Shared drives\Public Works CAPITAL\Water_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\PHASE-3\WR503-PLANS-P3-5TH.dwg Printed 3/30/2021 10:06 AM By Bruce Stewart

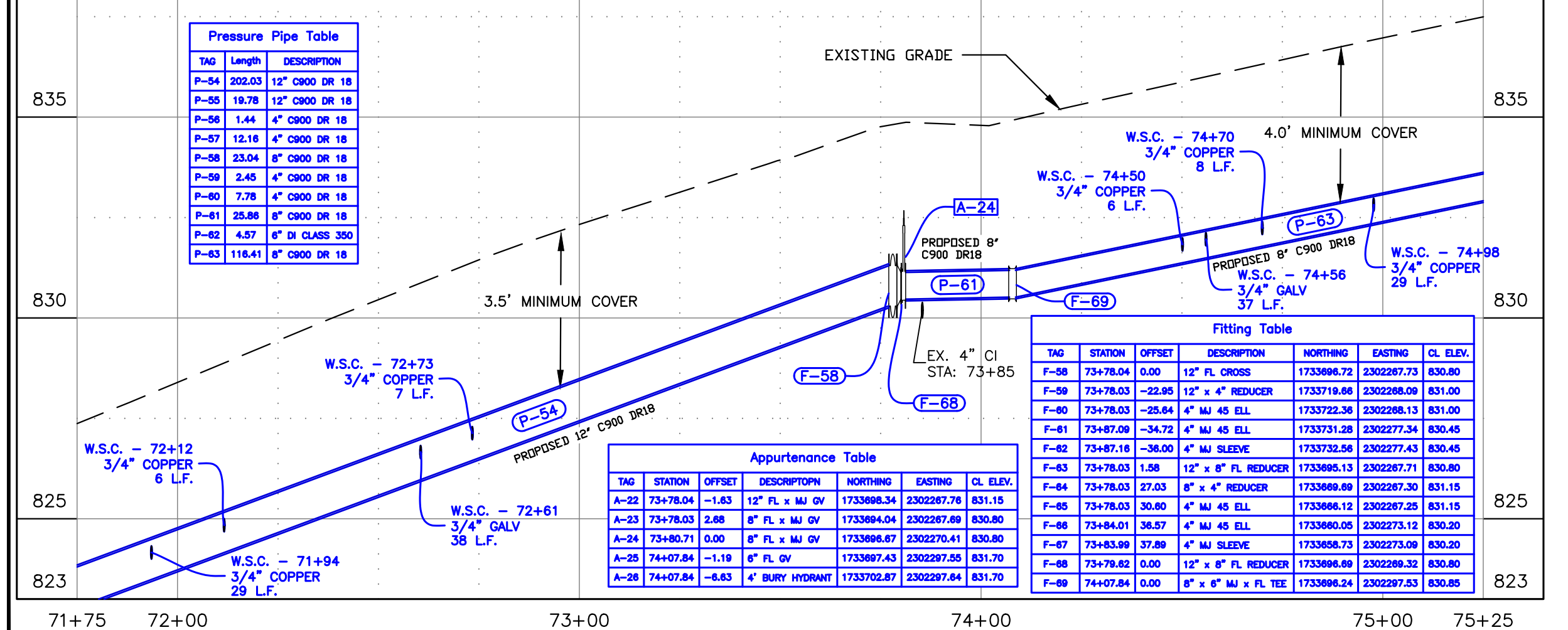


SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	337 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	3 L.F.
4 Water Main Pipe - 4" C900 DR18 Type, Item 401.4.1.A.1	24 L.F.
5 Water Main Pipe - 6" DI Class 350 Type, Item 401.4.1.A.2	5 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	168 L.F.
8 Water Main Pipe - 12" C900 DR18 Type, Item 401.4.1.A.5	222 L.F.
9 Water Main Fitting - 4" (See Fitting Table This Sheet), Item 402.4.1.B.1	6 EA.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	2 EA.
13 Water Main Fitting - 12" (See Fitting Table This Sheet), Item 402.4.1.B.5	4 EA.
14 Hydrant - (See Appurtenance Table This Sheet), Item 403.4.1.A.1	1 EA.
15 Connect to Existing Main - 4", Item 401.4.1.C.1	2 EA.
20 Valve - Size 6", (See Appurtenance Table This Sheet), Item 402.4.1.A.1	1 EA.
21 Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	2 EA.
22 Valve - Size 12", (See Appurtenance Table This Sheet), Item 402.4.1.A.3	1 EA.
23 Water Service Connection, 3/4", Item 404.4.1.A.1	8 EA.
24 Water Service Connection, 1", Item 404.4.1.A.2	0 EA.
25 Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	160 L.F.
26 Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	0 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	337 S.Y.
29 Sewer Main Crossing, Item SP-1	1 EA.

TAG	Length	DESCRIPTION
P-54	202.03	12" C900 DR 18
P-55	19.78	12" C900 DR 18
P-56	1.44	4" C900 DR 18
P-57	12.16	4" C900 DR 18
P-58	23.04	8" C900 DR 18
P-59	2.45	4" C900 DR 18
P-60	7.78	4" C900 DR 18
P-61	25.86	8" C900 DR 18
P-62	4.57	6" DI CLASS 350
P-63	116.41	8" C900 DR 18



TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-22	73+78.04	-1.63	12" FL x MJ GV	1733698.34	2302267.76	831.15
A-23	73+78.03	2.68	8" FL x MJ GV	1733694.04	2302267.69	830.80
A-24	73+80.71	0.00	8" FL x MJ GV	1733696.67	2302270.41	830.80
A-25	74+07.84	-1.19	6" FL GV	1733697.43	2302297.55	831.70
A-26	74+07.84	-6.63	4" BURY HYDRANT	1733702.87	2302297.64	831.70


TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-58	73+78.04	0.00	12" FL CROSS	1733696.72	2302267.73	830.80
F-59	73+78.03	-22.95	12" x 4" REDUCER	1733719.66	2302268.09	831.00
F-60	73+78.03	-25.64	4" MJ 45 ELL	1733722.36	2302268.13	831.00
F-61	73+87.09	-34.72	4" MJ 45 ELL	1733731.28	2302277.34	830.45
F-62	73+87.16	-36.00	4" MJ SLEEVE	1733732.56	2302277.43	830.45
F-63	73+78.03	1.58	12" x 8" FL REDUCER	1733695.13	2302267.71	830.80
F-64	73+78.03	27.03	8" x 4" REDUCER	1733689.69	2302267.30	831.15
F-65	73+78.03	30.60	4" MJ 45 ELL	1733686.12	2302267.25	831.15
F-66	73+84.01	36.57	4" MJ 45 ELL	1733680.05	2302273.12	830.20
F-67	73+83.99	37.89	4" MJ SLEEVE	1733686.73	2302273.09	830.20
F-68	73+79.62	0.00	12" x 8" FL REDUCER	1733696.69	2302269.32	830.80
F-69	74+07.84	0.00	8" x 6" MJ x FL TEE	1733696.24	2302297.53	830.85

FOR CONSTRUCTION
3/29/2021

PROFESSIONAL ENGINEER
LICENSED
Alannah Bailey
14113
03/03/2021
STATE OF IDAHO
ALANNAH M. BAILEY

NO.	DATE	DESCRIPTION	BY

NO.	DATE	DESCRIPTION	BY

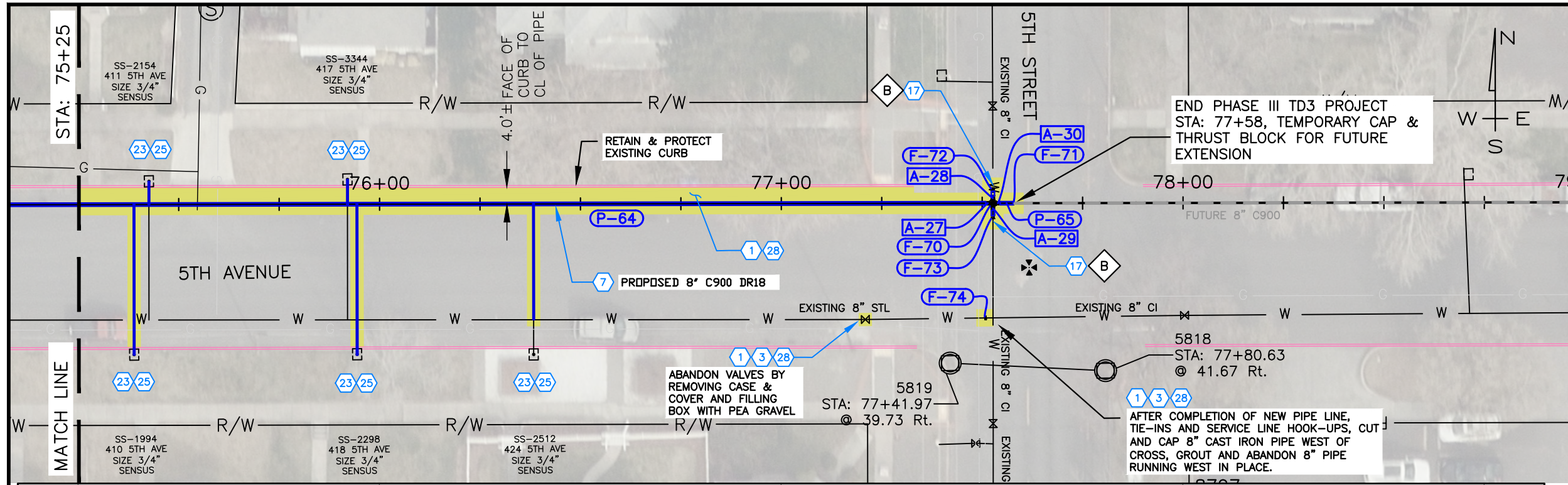

 CITY OF LEWISTON
 PUBLIC WORKS DEPARTMENT
 1861
 215 "D" Street, Lewiston, ID 83501-1930
 Phone: 208-746-1316 Fax: 208-746-5595

TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.

PLAN & PROFILE - 5TH AVENUE

SCALE: 1" = 30'
 DESIGNED BY: A.M.B.
 DRAWN BY: B.D.S.
 CHECKED BY: CREW
 SHEET SET: WR503-P3
 DATE: 03-03-2021
 DRAWING NO.: C-8
 SHEET 8 OF 9

File Name C:\Shared drives\Public Works CAPITAL\Water_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\PHASE-3\WR503-PLANS-P3-5TH.dwg Printed 3/30/2021 10:06 AM By Bruce Stewart

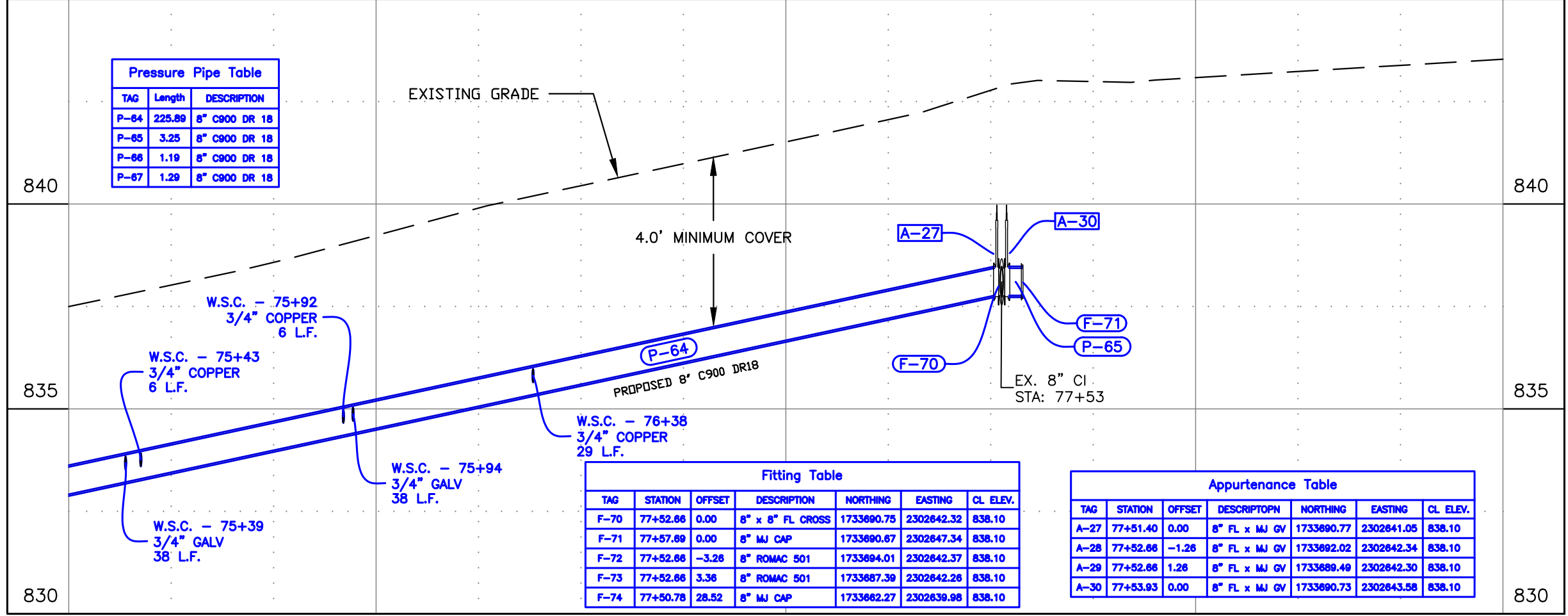


SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	208 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	3 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	232 L.F.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	5 EA.
17 Connect to Existing Main - 8", Item 401.4.1.C.3	2 EA.
21 Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	4 EA.
23 Water Service Connection, 3/4", Item 404.4.1.A.1	5 EA.
24 Water Service Connection, 1", Item 404.4.1.A.2	0 EA.
25 Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	117 L.F.
26 Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	0 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	208 S.Y.

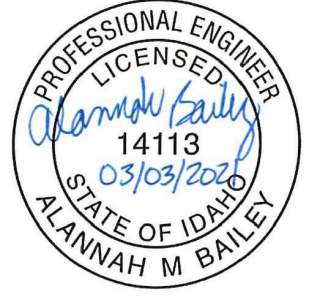
TAG	Length	DESCRIPTION
P-64	225.89	8" C900 DR 18
P-65	3.25	8" C900 DR 18
P-66	1.19	8" C900 DR 18
P-67	1.29	8" C900 DR 18



TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-70	77+52.66	0.00	8" x 8" FL CROSS	1733690.75	2302642.32	838.10
F-71	77+57.69	0.00	8" MJ CAP	1733690.67	2302647.34	838.10
F-72	77+52.66	-3.26	8" ROMAC 501	1733694.01	2302642.37	838.10
F-73	77+52.66	3.36	8" ROMAC 501	1733687.39	2302642.26	838.10
F-74	77+50.78	28.52	8" MJ CAP	1733662.27	2302639.98	838.10

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-27	77+51.40	0.00	8" FL x MJ GV	1733690.77	2302641.05	838.10
A-28	77+52.66	-1.26	8" FL x MJ GV	1733692.02	2302642.34	838.10
A-29	77+52.66	1.26	8" FL x MJ GV	1733689.49	2302642.30	838.10
A-30	77+53.93	0.00	8" FL x MJ GV	1733690.73	2302643.58	838.10

FOR CONSTRUCTION
3/29/2021



REVISIONS			
NO.	DATE	DESCRIPTION	BY



**TD-3 DISTRIBUTION MAIN REPLACEMENT
PHASE III - 5TH AVENUE 3RD TO 5TH ST.**

PLAN & PROFILE - 5TH AVENUE

SCALE: 1" = 30'
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503-P3
DATE: 03-03-2021
DRAWING NO.: C-9
SHEET 9 OF 9