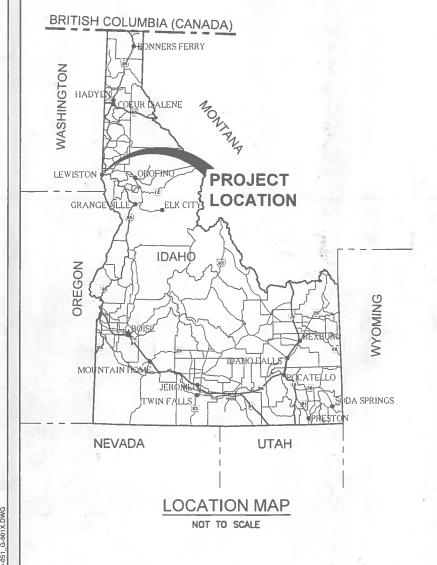
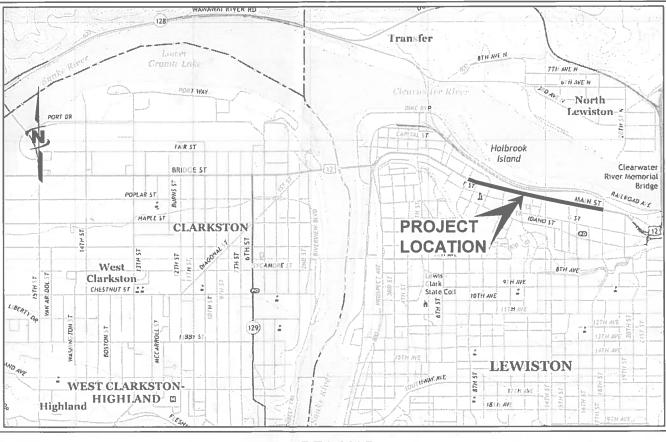
MAIN STREET WATER LINE **9TH TO 18TH** CITY OF LEWISTON, IDAHO **APRIL 2019**





AREA MAP





J-U-B ENGINEERS, INC.

846 6th St., Clarkston, WA 99403 p | 509 254 6011 w | www.jub.com

OTHER J-U-B COMPANIES





PUBLIC WORKS DEPARTMEN STREETS/TRAFFIC. WASTEWATER (CITY)

CITY OF LEWISTON

PUBLIC WORKS DEPARTMENT 215 D STREET, SUITE B LEWISTON, ID 83501-1930

AGENCY TELEPHONE NUMBERS .(208) 791-2311 .(208) 791-0986 WATER (CITY). ...(208) 790-1712 AVISTA UTILITIES CABLEONE. ..(208) 746-3325 CENTURYLINK ..(208) 798-8380

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CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

GENERAL NOTES

GENERAL CONSTRUCTION

- ALL CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF LEWISTON STANDARDS AND SPECIFICATIONS AND THE CURRENT VERSION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC). IN THE CASE OF CONFLICT, THE PROJECT PLANS AND TECHNICAL SPECIFICATIONS WILL PREVAIL OVER CITY STANDARDS WHICH WILL PREVAIL OVER ISPWC.
- THE CONTRACTOR AND UTILITY CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION
 CONFERENCE (AND ON-SITE MEETING WITH THE CITY OF LEWISTON PUBLIC WORKS
 DEPARTMENT) PRIOR TO START OF WORK. THE CONTRACTOR SHALL CONDUCT A
 WEEKLY PROJECT MEETING WITH THE ENGINEER AND CITY.
- CONTRACTORS SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOURS PRIOR NOTICE.
- 4. WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL AGENCY MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE: (B) PLACING OF AGGREGATE BASE: (C) PLACING OF CONCRETE: (D) PLACING OF ASPHALT PAVING, ALL NEWLY INSTALLED STORMWATER LINES SHALL BE VIDEOED PER LEWISTON PUBLIC WORKS POLICY #2012-2 PRIOR TO PAVING AND PRIOR TO PAYMENT.
- 5. 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.
- ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL PROMPTLY REMOVE FROM THE VICINITY OF THE COMPLETED WORK, ALL RUBBISH, MUD IN STREETS, REMOVED MATERIALS, ALL EXCESS MATERIALS, CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND FACILITIES USED DURING CONSTRUCTION, FINAL ACCEPTANCE AND FINAL PAYMENT WILL BE WITHHELD UNTIL THE CONTRACTOR HAS SATISFACTORILY CLEANED THE SITE, INCLUDING STAGING AND WASTE AREAS AS DETERMINED BY PUBLIC WORKS DEPARTMENT.
- 8. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH AFFECTED FRANCHISE UTILITIES DURING CONSTRUCTION AND PROPERTIES WITH WATER AND SEWER SERVICES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED OF CONSTRUCTION ACTIVITIES A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING THEIR SERVICE(S).
- CONTRACTOR IS LIKELY TO ENCOUNTER ABANDONED PIPES, UTILITIES OR OTHER MISCELLANEOUS ITEMS DURING EXCAVATION; THEY ARE TO BE REMOVED, INCIDENTAL TO RELATED ITEMS.
- 10. 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"
- PROVIDE INLET PROTECTION FOR EXISTING STORM WATER STRUCTURES THROUGHOUT CONSTRUCTION.

TRAFFIC CONTROL

- ALL TRAFFIC CONTROL ITEMS SHALL BE INCLUDED IN BID ITEM 1103.4.1.A.1
 CONSTRUCTION TRAFFIC CONTROL.
- TRAFFIC CONTROL ITEMS AND SIGNS REQUIRED TO ACCOMMODATE THE SPECIFIC CONSTRUCTION SITUATION, SHALL BE INCLUDED IN THE BID PRICE, SIGNS, FLAGGERS, CHANNELIZATION DEVICES AND OTHER TRAFFIC CONTROL ITEMS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2009 WITH REVISIONS INCORPORATED).
- ONE LANE OF TRAFFIC IN EACH DIRECTION SUFFICIENTLY SIGNED AND DELINEATED SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
- 4. PLACE CHANNELIZATION DEVICES (CONES, BARRELS, ETC.) ON THE OUTSIDE LANE EDGE ADJACENT TO THE EXCAVATION AREA IN ACCORDANCE WITH THE MUTCD. PLACE APPLICABLE SIGNS (SHOULDER DROP OFF, ETC.) AND WARNING DEVICES AS CONDITIONS WARRANT DURING CONSTRUCTION.
- 5. MINIMUM ALLOWABLE TRAFFIC LANE WIDTH SHALL BE 10 FT.
- THE CONTRACTOR SHALL PROVIDE NOTIFICATION OF ANY ACCESS CLOSURES TO THE PROPERTY OWNER PRIOR TO CLOSING THE ACCESS. APPROVAL OF THE CLOSURE BY THE PROPERTY OWNER WILL BE REQUIRED PRIOR TO CONSTRUCTION CAUSING RESTRICTION OF THE ACCESS. THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER AND THE CITY OF LEWISTON PERSONNEL TO MINIMIZE DISTURBANCE TO BUSINESSES AND PUBLIC FACILITIES, WHERE POSSIBLE ALTERNATE ACCESS OR DETOURS SHALL BE PROVIDED FOR DURATIONS LASTING LONGER THAN ONE BUSINESS DAY.

WATER

- CONSTRUCTION OF POTABLE WATER LINES SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE CURRENT ISPWC. PROPERTIES SHALL BE NOTIFIED AS OUTLINED IN GENERAL CONSTRUCTION NOTE NO. 8. STANDARDS AND SPECIFICATIONS REFERRED TO IN THE GENERAL CONSTRUCTION NOTE NO. 1.
- 2. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16), REFER ALSO TO

DETAIL "H", SHEET C-210.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EXISTING WATER USERS PRIOR TO DISRUPTING SERVICE IN ACCORDANCE WITH GENERAL CONSTRUCTION NOTE NO. 8. NO USER SHALL BE WITHOUT WATER OR SEWER SERVICE OVERNIGHT. NO USER SHALL BE WITHOUT WATER AND SEWER FOR MORE THAN 4 HOURS DURING NORMAL BUSINESS HOURS
- ALL WATER WORKS COMPONENTS SHALL BE ANSI/NSF 61 CERTIFIED, AND MUST MEET ALL AMERICAN WATER WORKS ASSOCIATION (AWWA) AND STANDARD REQUIREMENTS OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08).
- THE DESIGN, CONSTRUCTION, INSTALLATION, MAINTENANCE AND MATERIALS TO COMPLETE A TEMPORARY DEWATERING SYSTEM TO PROVIDE ADEQUATE DEWATERING DURING CONSTRUCTION WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT INCLUDED IN THE PROJECT.
- ALL UTILITY CROSSINGS SHOWN ON THE PLANS ARE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE NOTED WITH A SPECIFIC PAY ITEM.
- ALL SEWER SERVICE LATERALS SHOWN ARE DRAWN FROM THE CAMERA OBSERVED LATERAL CONNECTION POINT. 2 PERCENT SLOPE AND 90 DEGREE HORIZONTAL ANGLE FROM THE SEWER LINE WERE ASSUMED, ACTUAL DEPTH AND ALIGNMENTS MAY VARY.
- 8. UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN FIELD PRIOR TO EXCAVATION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR OR UTILITY COMPANY, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE UTILITY COMPANY. CONTRACTORS SHALL BE RESPONSIBLE TO CONTACT THE LOCAL ONE-CALL SYSTEM AT 811 AT LEAST THREE DAYS PRIOR TO ANY DIGGING.
- 9. THE NEW WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CITY OF LEWISTON STANDARD DRAWINGS. ALL WORK SHALL ALSO BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION. ALL WORK SHALL BE SUBJECT TO ACCEPTANCE BY THE CITY OF LEWISTON PURSUANT TO THE ENGINEERING DEPARTMENT'S CURRENT INSPECTION CHECKLIST.
- THE CONTRACTOR SHALL PRESSURE TEST THE NEW WATER MAIN IN ACCORDANCE WITH THE PHASING PLAN AND AWWA C600.
- 11. DISINFECTION SHALL BE BY THE CITY.
- 2. THE CITY'S WATER DISTRIBUTION SUPERVISOR (208-791-2032) SHALL BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY PRESSURE TESTING/DISINFECTION OF THE PUBLIC MAIN. THE DISINFECTION PROCEDURES CAN ONLY BE SCHEDULED ON MONDAY, TUESDAY OR WEDNESDAY. HE SHALL ALSO BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY TIE IN. TIE INS CAN OCCUR ON ANY WEEKDAY BUT MUST OCCUR BEFORE NOON ON FRIDAY. ANY ALTERATIONS TO THESE NOTIFICATIONS OR WORK SCHEDULES MUST BE APPROVED BY THE ENGINEER. THE CITY RESERVES THE RIGHT TO BILL THE CONTRACTOR FOR OVERTIME FOR IF WORK IS REQUESTED TO BE AFTERHOURS OR ON WEFKENDS.
- CONNECTION TO EXISTING MAINS SHALL BE IN THE PRESENCE OF CITY WATER DEPT PERSONNEL.
- THE CITY OF LEWISTON SHALL HAVE THE FIRST RIGHT OF REFUSAL TO ANY REMOVED/SALVAGED WATER SYSTEM COMPONENTS (HYDRANTS, VALVES, ETC)..
- 15. 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 BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.

ROADWAY

- ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY (ROW) CONSTRUCTION PERMIT FROM THE CITY OF LEWISTON AT LEAST TWENTY FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION. THE CITY WILL PAY THE ROW FEE FOR THIS PROJECT.
- THE CITY OF LEWISTON WILL INSPECT ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY
 TO INCLUDE UTILITY TRENCHES. THE CITY WILL INSPECT ALL CONNECTIONS TO
 EXISTING INFRASTRUCTURE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CHANGES TO TRAFFIC AND PEDESTRIAN LIGHTS WITH THE CITY OF LEWISTON STREET MAINTENANCE DIVISION AND IDAHO TRANSPORTATION DEPARTMENT.
- ALL ASPHALT JOINTS SHALL BE SAW CUT UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAWINGS.
- 5. ALL MANHOLES, VALVES, CATCH BASINS, AND MONUMENT CASES IN THE PUBLIC RIGHT-OF-WAY SHALL BE ADJUSTED. CUTTING PAVEMENT AND PATCHING IS NOT ALLOWED. IF ADJUSTED PRIOR TO OVERLAY THE UTILITY MUST BE PAVED AROUND. IF ADJUSTED AFTER OVERLAY CONCRETE COLLARS CONFORMING TO CITY STANDARD DRAWINGS 1-10 AND 5-6 ARE REQUIRED.
- ALL ASPHALT SURFACES AND ADJACENT PAVEMENT, LONGITUDINAL JOINTS, EDGES OF SURFACE UTILITIES AND CURB EDGES THAT RECEIVE A LEVELING COURSE OR HMA OVERLAY COURSE SHALL BE TACKED.

BID SCHEDULES AND SURFACE REPAIRS

SCHEDULE A OF THIS PROJECT INCLUDES THE OVERLAY AND ALL SURFACE REPAIR PAY ITEMS ASSOCIATED WITH THE WATER MAIN PROJECT. SCHEDULE B OF THIS PROJECT INCLUDES THE WATER MAIN. ALL SURFACE REPAIR PAY ITEMS INCLUDED HEREIN WILL BE PAID UNDER THE SCHEDULE A BID SCHEDULE(S). REFER TO THE OVERLAY PLANS AND THE ISPWC FOR ALL SURFACE REPAIR DETAILS.

PUBLIC SURVEY MONUMENT

ALL FOUND PUBLIC AND PRIVATE SURVEY MONUMENTS INCLUDING CENTERLINE MONUMENTS, SECTION CORNERS, PROPERTY PINS AND REFERENCE MONUMENTS IN THE PROJECT AREA ARE TO BE SHOWN ON THE CONSTRUCTION PLANS, REFERENCED BEFORE THEY ARE DISTURBED BY CONSTRUCTION, AND REESTABLISHED PRIOR TO PROJECT COMPLETION PER IDAHO CODE TITLE 55, CHAPTER 16. ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS THAT WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES MUST BE REFERENCED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO DISTURBANCE. ALL DISTURBED PUBLIC AND PRIVATE MONUMENTS SHALL BE REESTABLISHED 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 REESTABLISHED 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.

RESTRAINED LENGTHS

REQUIRED RESTRAINED LENGTHS AND THEIR LIMITS SHOWN ON THE PLANS ARE BASED UPON FITTING TYPE AND LOCATION. IF A FITTING IS MOVED IN THE FIELD, THE LIMITS OF THE ADJACENT RESTRAINED PIPING SHALL BE MOVED ACCORDINGLY. SEE TABLE 1 BELOW. LISTED LENGTHS ASSUME 150 PSI TEST PRESSURE, 4-FOOT COVER DEPTH, TYPE 5 TRENCH, SAND SILT SOIL AND A FACTOR OF SAFETY OF 1.5. THRUST BLOCKS MAY BE USED IN LIEU OF JOINT RESTRAINTS. THRUST BLOCKS SHALL BE IN ACCORDANCE WITH CITY STD DWG 4-4. JOINT RESTRAINTS OR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO THE WATER MAIN PAY ITEMS.

TABLE 1: RESTRAINED LENGTHS

FITTING TYPE	REQUIRED RESTRAINED LENGTH (FT)
6" 11.25° BEND (HORZ)	2
6" VALVE	65
8" 11.25° BEND (HORZ)	3
8" 22.5° BEND (HORZ)	5
8" x 6" REDUCER	36
8" VALVE	85
10" VALVE	102
12" VALVE	121
16" 22.5° BEND (HORZ)	9
16" x 12" REDUCER	66
16" x 10" REDUCER	92
16" x 8" REDUCER	113
16" x 8" TEE	0
16" x 6" TEE	0
16" VALVE	155

SURVEY CONTROL AND COORDINATE SYSTEM

TOPOGRAPHIC SURVEY INFORMATION AND ELEVATIONS INCLUDED HEREIN WERE PROVIDED BY THE CITY OF LEWISTON.

THE GEODETIC BASIS FOR THIS SURVEY IS THE NAD83(1998/1999) HIGH ACCURACY REFERENCE NETWORK (HARN) ADJUSTMENT ESTABLISHED BY THE NATIONAL GEODETIC SURVEY (NGS). IDAHO AND WASHINGTON HARN ADJUSTMENTS WERE PERFORMED BY THE NGS WITH DIFFERENT EPOCH DATES OF 1998 FOR WASHINGTON AND 1999 FOR IDAHO, BUT THESE ADJUSTMENTS ARE COHESIVE, AND CAN BE MIXED ACCORDING TO CURTIS SMITH OF THE NGS. PROJECT COORDINATES ARE AVAIALBE IN BOTH THE STATE PLANE IDAHO WEST ZONE AND THE STATE PLANE WASHINGTON SOUTH ZONE. CORRESPONDING COMBINED FACTOR AND CONVERGENCE VALUES ARE ALSO PROVIDED TO FACILITATE CONVERSIONS TO GROUND DISTANCE UNITS, AND TO TRUE NORTH BEARINGS. ELEVATIONS ARE REFERENCED TO NAVD88 DATUM. ALL UNITS ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

REFER TO "MAIN STREET OVERLAY - 9TH TO 18TH", SHEET G-005, PREPARED BY J-U-B ENGINEERS, INC. FOR SURVEY CONTROL POINT INFORMATION AND REFER TO CITY OF LEWISTON, SURVEY CONTROL NETWORK 2006, NEZ PERCE COUNTY INSTRUMENT #73B222 FOR MORE INFORMATION.

INDEX OF SHEETS

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GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX AND GENERAL NOTES
G-003	LEGEND, ABBREVIATIONS AND SYMBOLS
CIVIL	
C-201	PLAN & PROFILE (ADDITIVE BID ALTERNATE)
C-202	PLAN & PROFILE (ADDITIVE BID ALTERNATE)
C-203	PLAN & PROFILE (ADDITIVE BID ALTERNATE)
C-204	PLAN & PROFILE (ADDITIVE BID ALTERNATE)
C-205	PLAN & PROFILE (BASE BID)
C-206	PLAN & PROFILE (BASE BID)
C-207	PLAN & PROFILE (BASE BID)
C-208	PLAN & PROFILE (BASE BID)
C-209	PLAN & PROFILE (BASE BID)
C-210	DETAILS



J-U-B ENGINEERS, INC

846 6th Street Clarkston, WA 99403

ENGINEERS,

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SOLE RISK AND WITHOUT LIABLITY OR LEGAL EXPOSURE TO JULE.

REVISION

T WATER LINE - 9TH TO 18TH
OF LEWISTON, IDAHO
INDEX AND GENERAL NOTES

MAIN STREET
CITY C

FILE 21-18-051 G-001X

JUB PROJ. 9 23-18-051

DRAWN BY JPE

DESIGN BY AB

CHECKED BY AB

CHECKED BY AB

CHECKED BY JPE

ONE INCH

AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGL

AST UPDATED: 4/18/2019

INCH SCALE ACCOR LAST UPDATED: 4/18/2019 SHEET NUMBER:

0 000

G-002

SYMBOL LEGEND

	-	SYMBOL
SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
SURVEY	51111502	O T MID O E
CAP (ALUMINUM)	⊕	
CAP (BRASS)	•	
CHISELED X	⊠	
CTRL PT GENERIC		
CTRL PT 沒" REBAR	A1/2" PIN CONTROL PT	
CTRL PT %" REBAR	A 5/8" PIN CONTROL PT	
CTRL PT 60D NAIL	₾ 600	
CTRL PT HUB & TACK	А нт	
CTRL PT PK NAIL	△ px	
CTRL PT TEMP BENCH MARK	А твы	
NAIL	0	٥
NAIL AND TAG	⊙ ^{N/T}	
NAIL (PK)	© ^{PK}	
BOLT	•	
DRILL STEEL	0	
REBAR (½")		•
REBAR (%")		•
STAINLESS STEEL ROD		
IRON PIPE	۰	
RAILROAD SPIKE	♦	
R/W MONUMENT	ō	
STONE	⊕	
	22 15	
SECTION CORNER, MON.	21 16	
SECTION QUARTER MON.	15	
SITE		
BOLLARD	0	9
BOULDER	0	0
DRINKING FOUNTAIN	120	DE
FLAGPOLE	Ø	© .
GATE		
MAIL BOX	M	<u>@</u>
PARKING METER	₽µ	學
POST	0	•
SIGN	~	
SPOT ELEVATION		M
TREE (SHRUB)	0	
TREE (STUMP)	Pl	
TREE (CONIFEROUS)	Zu. Z	
TREE (DECIDUOUS)	Ö	
TEST HOLE	(P)	
WELL	ŵ	₩
WELL (MONITORING)	W	M
	•	

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
UTILITIES		
MANHOLE (GENERIC)	0	•
PRESSURE CLEAN OUT AT GRADE	. 900	e
THRUST BLOCK		
VAULT	V	☑
COMMUNICATION		
TELE. MANHOLE	1	•
TELE. PEDASTAL	(T)	0
TELE. POLE	ф	-
TV PEDASTAL	į w	网
GUY WIRE	1	1
DOMESTIC WATER		
FIRE HYDRANT	A	٧
SPIGOT	€	•
YARD HYDRANT	8	
WATER MANHOLE	(W)	•
WATER METER	⊞	•
WATER VALVE		×
ELECTRIC	1	
ELEC. MANHOLE	©	•
ELEC. METER	.	Ē
ELEC. TRANS.	E	E
JUNCTION BOX	J	l o
POWER POLE		-
POWER STUB	©	(E)
STREET LIGHT	#	*
TRAFFIC SIGNAL POLE		
IRRIGATION		
IRRIGATION VALVE	IRR	A
IRRIGATION VALVE BOX	0	0
SPRINKLER	_	A
NATURAL GAS	1	
GAS METER	G H	G
GAS VALVE	c ×	G
SANITARY SEWER	1 **	1
CLEANOUT	(i)	0
SEWER STUB	(5)	S
SS MANHOLE	(5)	•
STORM DRAIN	1	
CATCH BASIN	8	E
DRY WELL	(DW)	(M)
FLARE END	0	
GREASE TRAP	6 0	00
SD MANHOLE	0	

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
BOUNDARY		
PROPERTY LINE	P/L	P/L
PROPERTY LINE		
RIGHT OF WAY		
TEMPORARY EASEMENT	T/E	1/E
PERMANENT EASEMENT	P/E	—— P/E —
TOWNSHIP AND RANGE		
SECTION LINE		
QUARTER SECTION LINE		
1/16 SECTION LINE		
STATE LINE		
COUNTY LINE .		

----2521---

FENCE MAJOR CONTOUR

MINOR CONTOUR

- 1			
ı	GRADE BREAK		GB
	TOP OF BANK		—— тов ——
ı	TOE OF SLOPE		TOE
ı	CUT LIMITS		
ı	FILL LIMITS		
ı	DITCH		
ı	STORM SWALE		
ı	EDGE OF WATER		
	HIGH WATER	·	
	WETLAND		WET
1	WETLAND BOG		BOC
	WETLAND MARSH		MRSH
	WETLAND SWAMP		SWMP
	ROADWAY		
	ROAD SHOULDER		
	ROAD CENTERLINE		
	ROAD ASPHALT		EP
	ROAD GRAVEL		
	TOP BACK OF CURB		
	LIP OF GUTTER		
	LANDSCAPING LIMITS	u	LS
	POWER / COMMUNICA	ATIONS	
	OVERHEAD POWER	—— OHP ——	OHP
	UNDERGROUND POWER	UP	UP
	OVERHEAD TELEPHONE	—— онт ——	OHT
	UNDERGROUND TELEPHONE	tr	ut
	FIBER OPTIC	F/0	F/O
	CABLE TELEVISION	сту	cīv — — —
	UNDERGROUND POWER, TEL, CABLE TV		P.T.CTV
	UNDERGROUND POWER, TEL, CABLE TV, GAS		P,T,CTV,G

LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
IRRIGATION		
IRRIGATION	IRR	IRR
GRAVITY IRRIGATION		GIRR
PRESSURE IRRIGATION	PIRR	PIRR
POTABLE WATER	PW	PW
NON-POTABLE WATER	NPW	NPW
GAS		
NATURAL GAS	G	c =
NATURAL GAS SERVICE	G G	
HIGH PRESSURE GAS	HPG	— — нрс — — —
LIQUID GAS	rc	tg
STORM DRAIN		
STORM DRAIN (GENERAL)	so	50
STORM DRAIN	——X°SD ———	— — x~so — — —
ROOF DRAIN	RD	RD
SANITARY SEWER		
SANITARY SEWER (GENERAL)	ss	— — — 55 — — —
SANITARY SEWER	——x°ss ——	x*ss
SANITARY SEWER SERVICE	ssss	55 55
SEWER FORCE MAIN	——FM ——	
WATER		
WATER (GENERAL)	w	
WATER (SPECIFIED SIZE)	xw	×~w
WATER SERVICE		wsws

ABE	BREVIATIONS
APPROX	APPROXIMATE
ASP	ASPHALT
ASSY	ASSEMBLY
>	ANGLE
0	AT (MEASUREMENTS)
BLDG	BUILDING
вм	BENCH MARK
BSW	BACK OF SIDEWALK
BW	BOTH WAYS
C/L	CENTER LINE
CI	CAST IRON
CL350	CLASS 350
CMP	CORRUGATED METAL PIPE
co	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CPLG	COUPLING
CU FT	CUBIC FEET
CU YD	CUBIC YARD
DEG OR .	DEGREE
DET .	DETAIL
DIA OR Ø	DIAMETER
DI	DUCTILE IRON PIPE
DIST	DISTRIBUTION
DWG	DRAWING
E	EASTING
EA	EACH
EG	EXISTING GROUND
ELB	ELBOW
ELEV	ELEVATION
EW	EACH WAY
EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FLG	FLANGE
FO	FIBER OPTIC
FT OR '	FEET
G	GAS
GALV	GALVANIZED
GV	GATE VALVE
HORIZ	HORIZONTAL

ID }	INSIDE DIAMETER
ITD	IDAHO TRANSPORTATION DEPARTMENT
INV	INVERT
ISPWC	IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION
IN OR "	INCH
LB OR #	POUND
LF	LINEAL FEET
LN	LINEAL
MAX	MUMIXAM
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTHING
NO OR #	NUMBER
NTP	NOTICE TO PROCEED
PE	POLYETHYLENE
PVC	POLYVINYL-CHLORIDE.
RÉM	REMOVE
REQ'D	REQUIRED
REV	REVISION
R/W OR ROW	RIGHT-OF-WAY
S	SLOPE
SCH	SCHEDULE
SD	STORM DRAIN
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
SS	SANITARY SEWER OR SERVICE
SSMH	SANITARY SEWER MANHOLE
SST	STAINLESS STEEL
SY	SQUARE YARD
S/W	SIDEWALK
TBC	TOP BACK OF CURB
T/E	TEMPORARY CONSTRUCTION EASEMENT
TYP	TYPICAL
TFC	TOP FACE OF CONCRETE
W	WATER
WS	WATER SERVICE
W/	WITH
W/O	WITHOUT
W/REQ'D	WHERE REQUIRED



J-U-B ENGINEERS, INC. 846 6th Street Clarkston, WA 99403

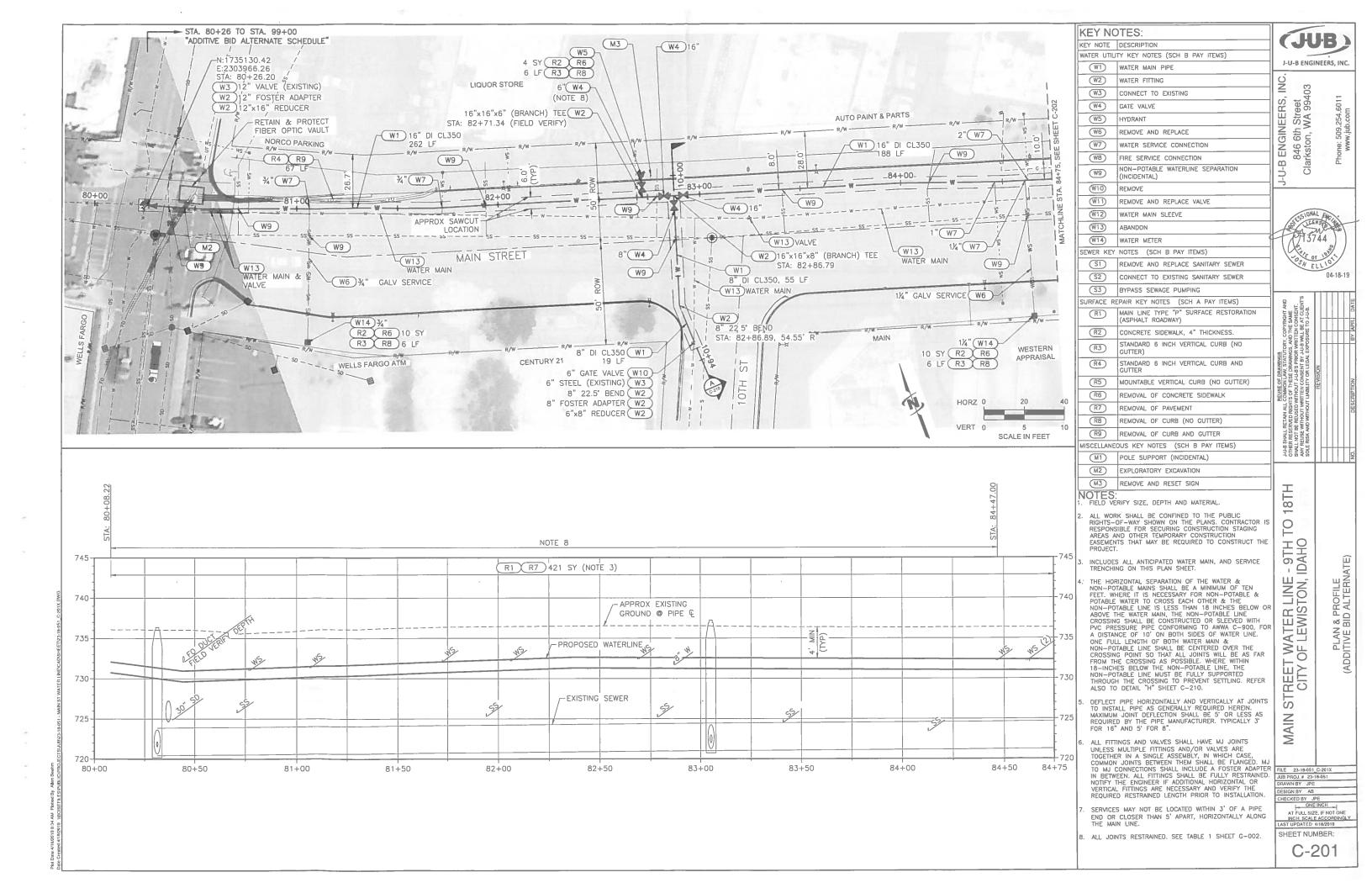


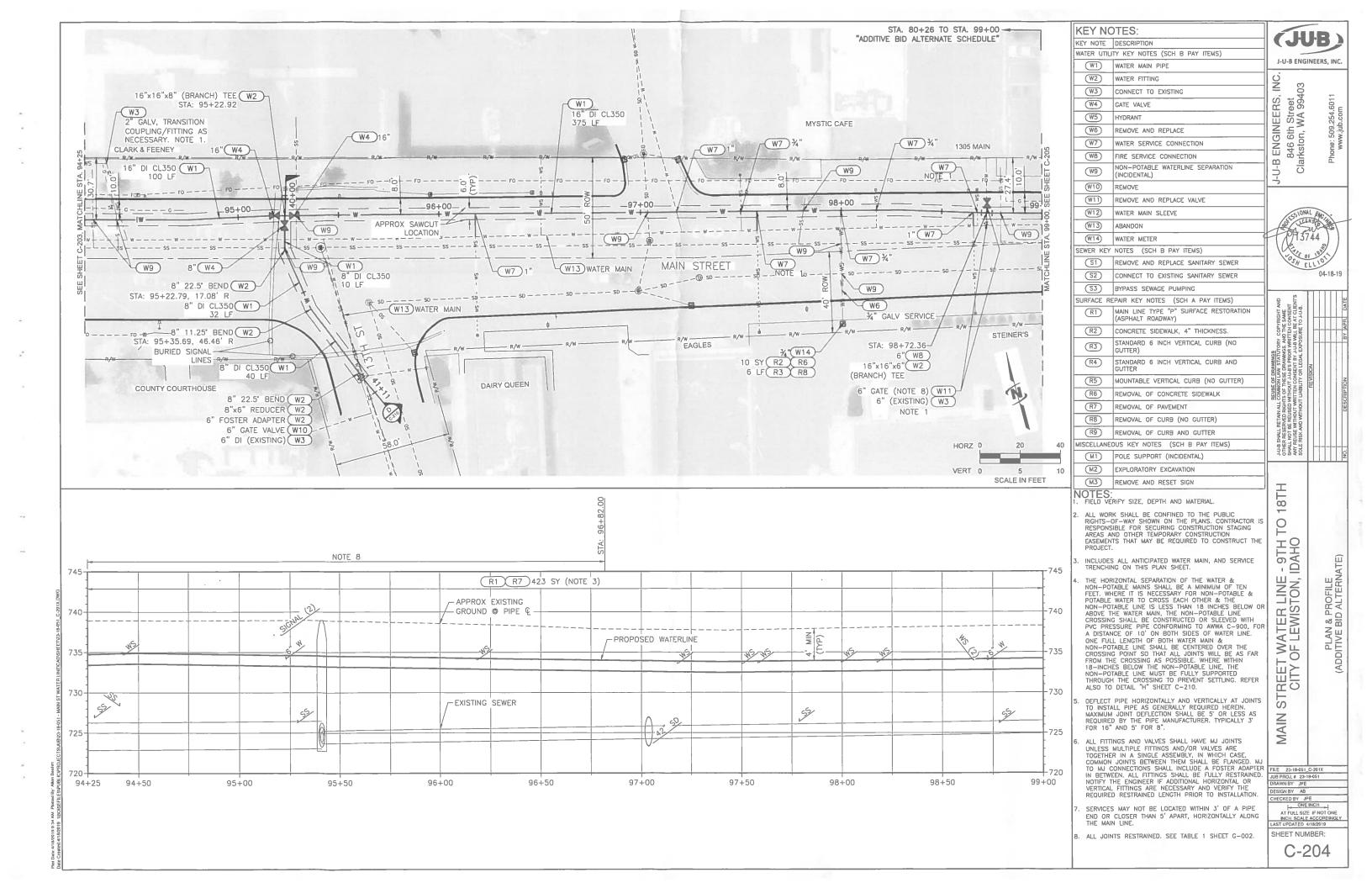
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OTHER RESERVED RIGHTS OF THESE DRAWINGS
SANEL NOT BE REUSED WHICH JULY SERVICE
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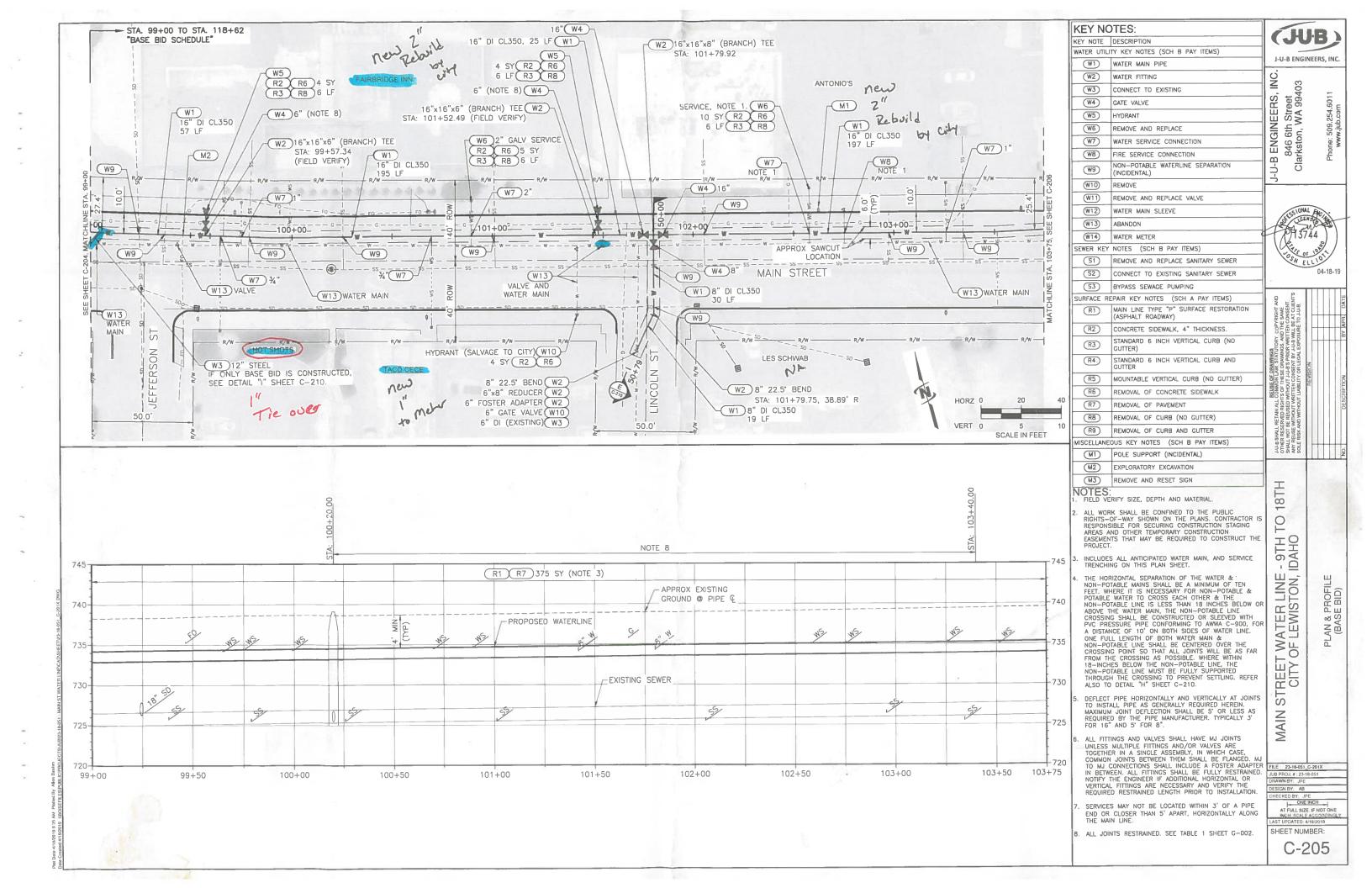
MAIN STREET WATER LINE - 9TH TO 18TH CITY OF LEWISTON, IDAHO LEGEND, ABBREVIATIONS AND SYMBOLS

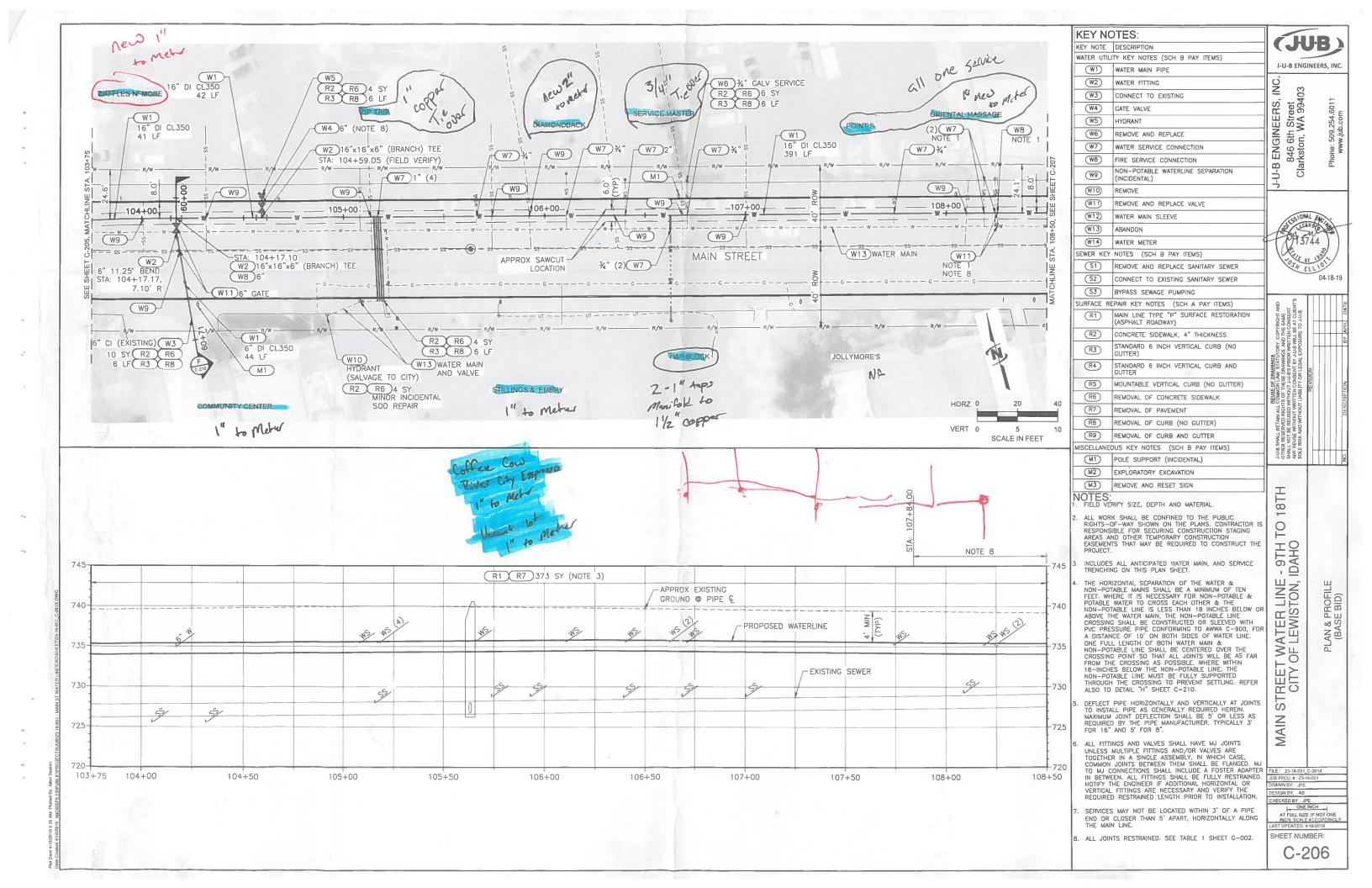
FILE 21-18-051 G-001X
JUB PROJ. # 23-18-051
DRAWN BY JPE
DESIGN BY AB
CHECKED BY JPE
AT FILL SIZE, IF NOT ONE
NOH SCALE ACCORDINGLY
LAST UPDATED 4/18/2019
CHEETE IN IMADE DO.

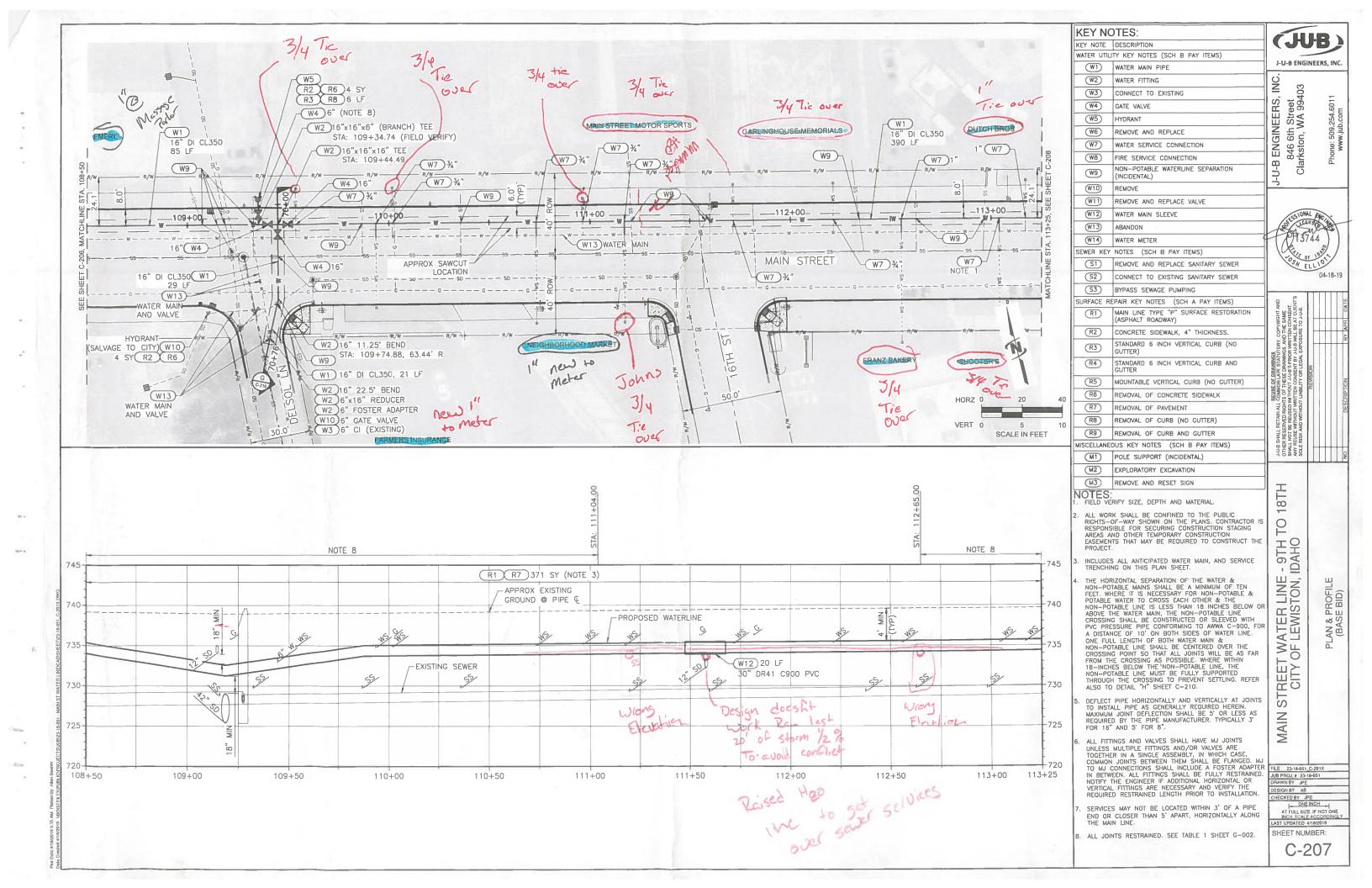
SHEET NUMBER: G-003

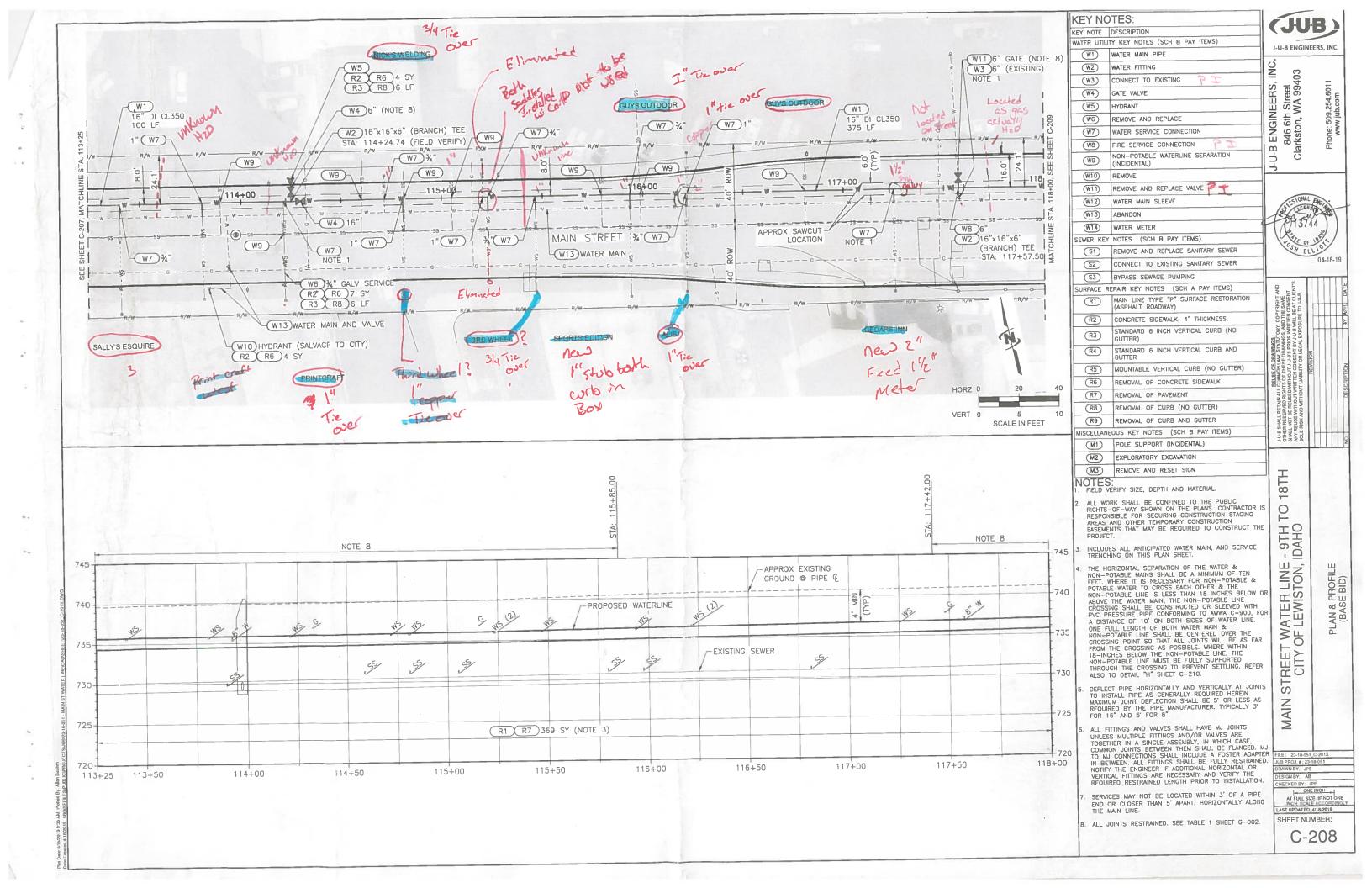


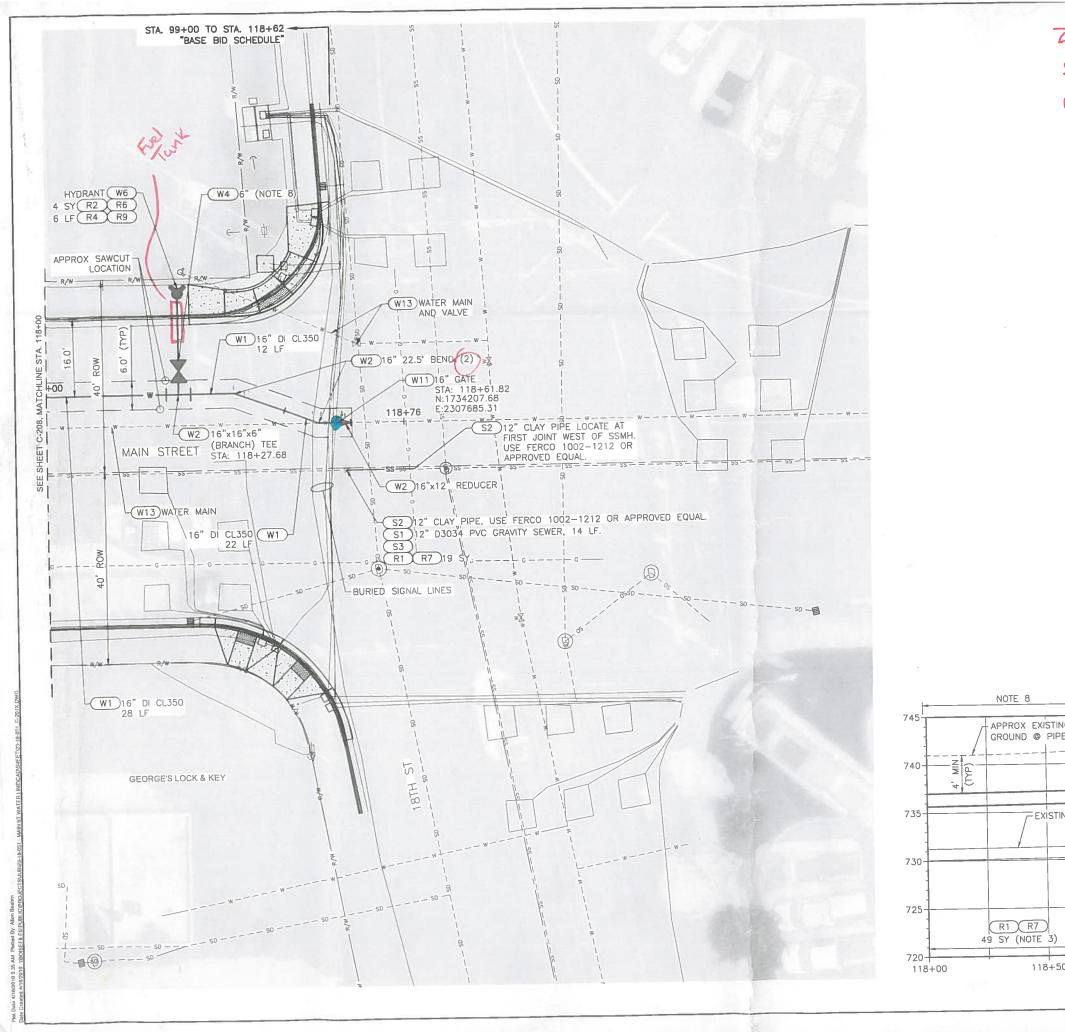












2 22 /2 5 Mga lugz 12" Romese value can







KEY NO	1170	(JU	B)	
KEY NOTE	DESCRIPTION ITY KEY NOTES (SCH B PAY ITEMS)	_		
(W1)	WATER MAIN PIPE	J-U-B ENGIN	IEERS, INC.	
(W2)	WATER FITTING	ن ن		
(W3)	CONNECT TO EXISTING	, INC 403	_	
(W4)	GATE VALVE	7S,	901	
(W5)	HYDRANT	ENGINEERS, IN 846 6th Street rkston, WA 99403	Phone: 509,254.6011 www.jub.com	
(W6)	REMOVE AND REPLACE	E E	09.5	
(W7)	WATER SERVICE CONNECTION	S 6 for	.e. 5	
(W8)	FIRE SERVICE CONNECTION	E 84 E 8	lod' v	
(W9)	NON-POTABLE WATERLINE SEPARATION (INCIDENTAL)	J-U-B ENGINEERS, 846 6th Street Clarkston, WA 994	-	
(W10)	REMOVE	<u> </u>		
(W11)	REMOVE AND REPLACE VALVE			
(W12)	WATER MAIN SLEEVE	5510M	L FAME THE	
(W13)	ABANDON	STESSIONA TES	W.S. C.	
(W14)	WATER METER	19937	44	
SEWER KE	<u> </u>	ALE OF	10H	
(S1)	REMOVE AND REPLACE SANITARY SEWER	100	11101	
(S2)	CONNECT TO EXISTING SANITARY SEWER		04-18-19	
(S3)	BYPASS SEWAGE PUMPING			
SURFACE	REPAIR KEY NOTES (SCH A PAY ITEMS)	OND SINTS	DATE	
R1)	MAIN LINE TYPE "P" SURFACE RESTORATION (ASPHALT ROADWAY)	RELIBECTE DRAWNINGS RELIBECTE DRAWNINGS OTHER RELIBECTE DRAWNINGS AND THE SAME OTHER RELIBECTED THESE DRAWNINGS AND THE SAME SWARFINGS WITH THE CONSEST OF THESE CHANNINGS AND THE SAME SWARFINGS WITHOUT WRITTEN CONSEST OF ALLES WITH CHANNINGS AND THE STREAM THE CONSEST OF THE STREAM THE CONSEST OF THE STREAM THE STREAM THE CONSEST OF THE STREAM THE	APR: D	
R2	CONCRETE SIDEWALK, 4" THICKNESS.	COP TO TH TTEN WILL B	<u></u>	
R3	STANDARD 6 INCH VERTICAL CURB (NO GUTTER)	THE THE THE SELISE OF DRAWINGS THE SHALL SETAIN ALL COMMOND INAN STATUTORY CONTROL OTHER RESERVED MICHTS OF THESE DRAWINGS AND THE SAME SHALLING WITHOUT SHEED THE SHEED WHATTED CONSEST SHALLING WITHOUT SHEED SHEE		
R4	STANDARD 6 INCH VERTICAL CURB AND GUTTER	REUSE OF DRAWINGS COMMON LAW, STATU TS OF THESE DRAWING MITHOUT JULB'S PRIOF WITTEN CONSENT BY JULIABILITY OR LEGAL I	REVISION	
R5	MOUNTABLE VERTICAL CURB (NO GUTTER)	P T T E OF T T E OF T E	REV	
R6	REMOVAL OF CONCRETE SIDEWALK	MATH THE	SCH SCH	
(R7)	REMOVAL OF PAVEMENT	IN ALL USED USED		
(R8)	REMOVAL OF CURB (NO GUTTER)	RETA SE REI WATH		
R9	REMOVAL OF CURB AND GUTTER	HALL RESI NOT I		
MISCELLAN	EOUS KEY NOTES (SCH B PAY ITEMS)	JULB SHALL OTHER RES SHALL NOT SHALL NOT ANY REUSE SOLE RISK,	S. S	
M1	POLE SUPPORT (INCIDENTAL)	700/20/		
M2	EXPLORATORY EXCAVATION			
(M3)	REMOVE AND RESET SIGN	J		
NOTE:	S: VERIFY SIZE, DEPTH AND MATERIAL.	18 1		
RIGHTS RESPO AREAS EASEM PROJE		표원		
TRENC	DES ALL ANTICIPATED WATER MAIN, AND SERVICE HING ON THIS PLAN SHEET.	PAGI		
NON-I FEET. POTAB NON- ABOVE	ORIZONTAL SEPARATION OF THE WATER & POTABLE MAINS SHALL BE A MINIMUM OF TEN WHERE IT IS NECESSARY FOR NON-POTABLE & LE WATER TO CROSS EACH OTHER & THE POTABLE LINE IS LESS THAN 18 INCHES BELOW CITHE WATER MAIN, THE NON-POTABLE LINE SING SHALL BE CONSTRUCTED OR SLEEVED WITH	ER LINE VISTON,	& PROFILE (SE BID)	

ABOVE THE WATER MAIN, THE NON-POTABLE LINE CROSSING SHALL BE CONSTRUCTED OR SLEEVED WITH PVC PRESSURE PIPE CONFORMING TO AWWA C-900, FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN & NON-POTABLE LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. WHERE WITHIN 18-INCHES BELOW THE NON-POTABLE LINE, THE NON-POTABLE LINE, THE NON-POTABLE LINE MUST BE FULLY SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. REFER ALSO TO DETAIL "H" SHEET C-210. ATE! > P REET

DEFLECT PIPE HORIZONTALLY AND VERTICALLY AT JOINTS TO INSTALL PIPE AS GENERALLY REQUIRED HEREIN. MAXIMUM JOINT DEFLECTION SHALL BE 5' OR LESS AS REQUIRED BY THE PIPE MANUFACTURER. TYPICALLY 3' FOR 16" AND 5' FOR 8".

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 BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.

SERVICES MAY NOT BE LOCATED WITHIN 3' OF A PIPE END OR CLOSER THAN 5' APART, HORIZONTALLY ALONG THE MAIN LINE.

ALL JOINTS RESTRAINED. SEE TABLE 1 SHEET G-002.

FILE | 23-18-051_C-201X JUB PROJ. # 23-18-051 DRAWN BY JPE ESIGN BY AB HECKED BY JPE

ST

MAIN

AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY LAST UPDATED: 4/18/2019 SHEET NUMBER:

C-209

