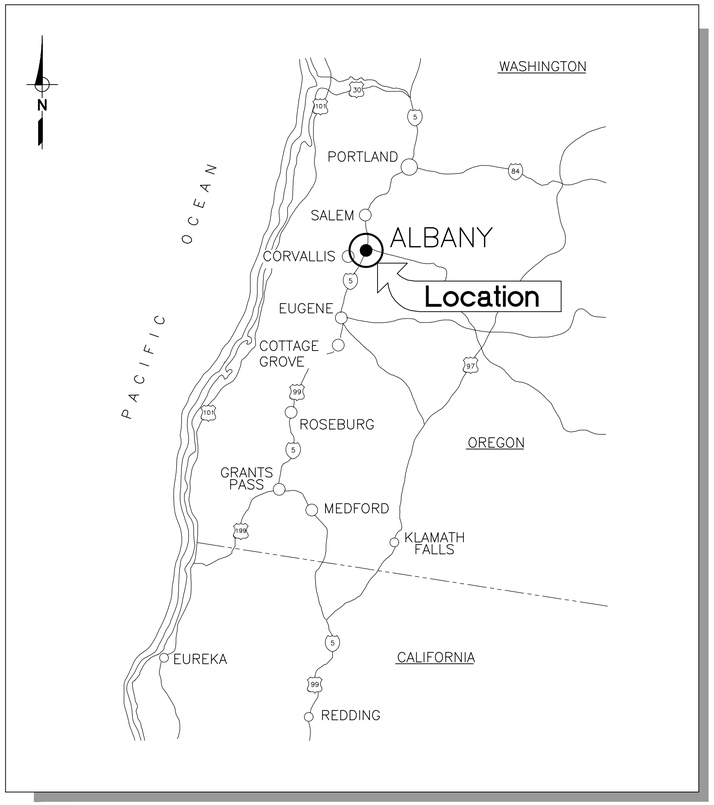


LOCATION MAP

SCALE: NOT TO SCALE

CITY OF ALBANY

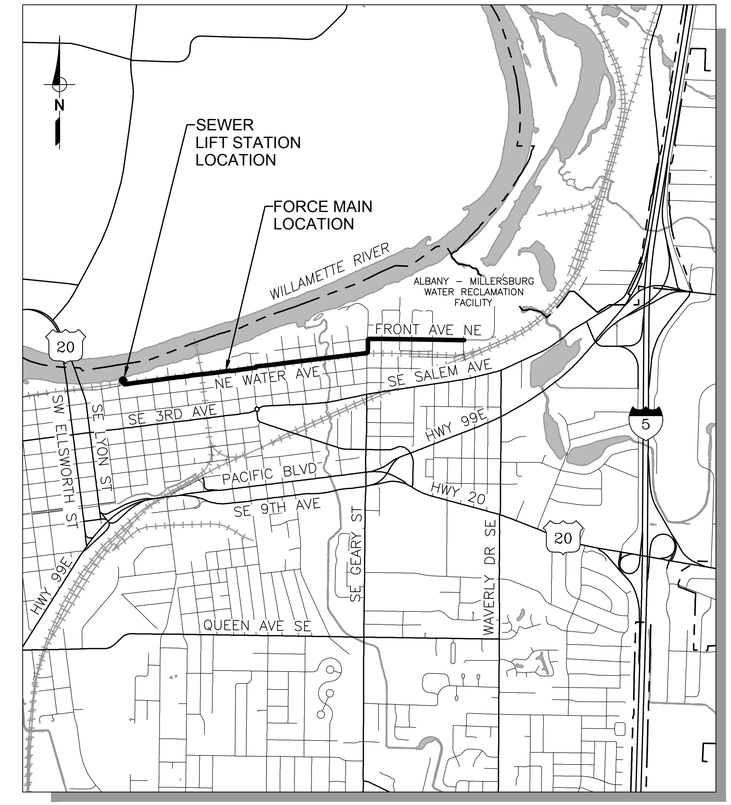
PUBLIC WORKS DEPARTMENT

ALBANY, OREGON

RIVERFRONT INTERCEPTOR SEWER LIFT STATION AND FORCE MAIN

PROJECT NUMBER - SS-19-05

APRIL 2019



VICINITY MAP

SCALE: NOT TO SCALE

DRAWING INDEX

SHEET NO.	DRAWING NO.	SHEET TITLE
		GENERAL
1	G01	TITLE SHEET, LOCATION MAP AND INDEX OF DRAWINGS
2	G02	LEGENDS AND ABBREVIATIONS
		CIVIL
3	C01	EXISTING CONDITIONS AND DEMOLITION PLAN
4	C02	SITE PLAN
5	C03	SITE UTILITY PLAN
6	C04	CIVIL DETAILS - 1
7	C05	CIVIL DETAILS - 2
8	C06	CIVIL DETAILS - 3
9	C07	CIVIL DETAILS - 4
10	C08	CIVIL DETAILS - 5
11	C09	PLAN AND PROFILE INDEX
12	C10	PLAN AND PROFILE - 1
13	C11	PLAN AND PROFILE - 2
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16	C14	PLAN AND PROFILE - 5
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20	C18	PLAN AND PROFILE - 9
21	C19	PLAN AND PROFILE - 10
22	C20	PLAN AND PROFILE - 11
23	C21	PLAN AND PROFILE - 12
24	C22	PLAN AND PROFILE - 13
		ARCHITECTURAL
25	A01	ELECTRICAL BUILDING PLAN, SCHEDULES AND NOTES
26	A02	ELECTRICAL BUILDING ELEVATIONS & SECTIONS
27	A03	ELECTRICAL BUILDING SECTIONS & DETAILS
		STRUCTURAL
28	S01	FOUNDATION PLAN
29	S02	FRAMING PLANS
30	S03	WET WELL SECTIONS
31	S04	DIVERSION STRUCTURE SECTIONS
32	S05	ELECTRICAL BUILDING PLANS AND DETAILS
33	S06	TYPICAL DETAILS
34	S07	TYPICAL METAL DETAILS
		MECHANICAL
35	M01	LIFT STATION GROUND LEVEL TOP SLAB
36	M02	LIFT STATION MECHANICAL PLAN
37	M03	LIFT STATION SECTION VIEW
38	M04	DIVERSION STRUCTURE SECTIONS
39	M05	SLIDE GATE DETAILS
40	M06	MECHANICAL DETAILS
		ELECTRICAL
41	E01	ELECTRICAL ABBREVIATIONS
42	E02	ELECTRICAL SYMBOL LEGEND
43	E03	ELECTRICAL DETAILS
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45	E09	ONE-LINE DIAGRAM
46	E10	DEMOLITION SITE PLAN
47	E11	OVERALL SITE PLAN
48	E12	ELECTRICAL BUILDING POWER & CONTROL FLOOR PLAN
49	E13	ELECTRICAL BUILDING LIGHTING & RECEPTACLE FLOOR PLAN
50	E14	ELECTRICAL BUILDING ELEVATION
51	E15	LIFT STATION POWER & CONTROL FLOOR PLAN
52	E16	WET WELL & DIVERSION STRUCTURE SECTION VIEWS
53	E25	PANEL SCHEDULE
54	E26	POWER CONDUIT SCHEDULE
55	E27	CONTROL CONDUIT SCHEDULE
		PROCESS & INSTRUMENTATION
56	I01	INSTRUMENTATION SYMBOL LEGEND & ABBREVIATIONS
57	I02	INSTRUMENTATION SYMBOL LEGEND
58	I03	P&ID - DIVERSION STRUCTURE
59	I04	P&ID - WET WELL

UTILITY CONTACT LIST

1.	Pacific Power	Eddie Steiner	541-967-6146	Eddie.Steiner@PacifiCorp.com
2.	NW Natural	Dave Bellinger	541-926-4253 x8238	d6b@nwnatural.com
3.	Comcast	Ryan Hansen	541-230-0079	Ryan_Hansen@comcast.com
4.	CenturyLink	Travis Vaughn	503-365-5555	travis.vaughn@centurylink.com
5.	LS Networks	Craig McPherson	971-291-7873	cmcpherson@LSNetworks.net

NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS AND ASSOCIATED STANDARD DRAWINGS. THE CURRENT VERSION OF THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE CITY'S WEBSITE AT: WWW.CITYOFALBANY.NET
2. UTILITIES SHOWN ARE FOR REFERENCE ONLY. FOR A FIELD LOCATE, CALL THE UTILITIES NOTIFICATIONS CENTER AT 811.
3. OPERATING ACCESS FOR CITY MAINTENANCE PERSONNEL TO EXISTING WATER VALVES AND MANHOLES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING ALL CONSTRUCTION ACTIVITIES.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BEGINNING WORK.
5. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FOURTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 811.)

Know what's below. Call before you dig.

REGISTERED PROFESSIONAL ENGINEER 86320PE Digitally Signed OREGON DEC. 12, 2018 MATTHEW P. HEWITT

EXPIRES : 6/30/2019

QC REVIEW: _____

DATE: _____

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE : NOT TO SCALE
DRAWN BY : DKH
DESIGNED BY : DAM
PROJ. MGR. : WJM

No.	ZONE	REVISIONS	BY	DATE

WEST YOST ASSOCIATES
4949 Meadows Road
Suite 125
Lake Oswego, Oregon 97035
(503) 451-4500
FAX (530) 756-4991

CITY OF ALBANY
RIVERFRONT INTERCEPTOR SEWER
LIFT STATION AND FORCE MAIN

TITLE SHEET, LOCATION MAP, VICINITY MAP, AND DRAWING INDEX

JOB NUMBER 519-14-18-18

DRAWING NUMBER G01

SHEET NUMBER 1 OF 59

REVISION

P:\Clients\519 City of Albany\14-18-18 Rvrfrnt Intrcptr Wet Wthr LS and FM\CAD\Production\51914-1818-G.dwg 4/16/2019 3:26 PM bbarry

LEGENDS

CIVIL

EXISTING	PROPOSED	
30"RFI		RIVERFRONT INTERCEPTOR SEWER
FM	30"FM	SANITARY FORCE MAIN
S	6"SS	SANITARY SEWER
D	8"SD	STORM DRAIN
W	W	WATER
RW		RECYCLED WATER
G		GAS
T		UNDERGROUND TELEPHONE
CTV		UNDERGROUND TELEVISION
E	E	UNDERGROUND ELECTRICAL
FO	FO	FIBER OPTIC
OHP		OVERHEAD POWER/UTILITY
		ABANDON/DEMOLISH UTILITY OR STRUCTURE
		STREET CENTERLINE
		RIGHT-OF-WAY
		PROPERTY LINE
		EDGE OF PAVEMENT
		CONCRETE CURB
		EDGE OF GRAVEL
		FENCE (WOOD)
X	X	FENCE (BARBWIRE)
		FENCE LINE (CHAIN LINK)
		RAILING
		GUARDRAIL
		CULVERT
		DITCH
205	205	GROUND CONTOUR (MAJOR)
205	205	GROUND CONTOUR (MINOR)
		CONCRETE
		BRICKS/PAVERS
		BUILDING/STRUCTURE
		RAILROAD TRACKS
		SEWER OR STORM MANHOLE
		SEWER CLEANOUT
		SEWER AIR/VACUUM RELEASE VALVE
		BLOW OFF VALVE
		CATCH BASIN
		CURB INLET
		FIRE HYDRANT
		VALVE (WATER, GAS)
		WATER METER
		IRRIGATION METER
		IRRIGATION SYSTEM
		GAS METER
		ELECTRICAL METER
		UTILITY POLE
		GUY ANCHOR
		BOLLARD
		POWER PEDESTAL
		LIGHT POLE
		STREET LIGHT
		TRAFFIC SIGNAL
		RAILROAD CROSSING ARM
		TELEPHONE PEDESTAL
		SIGN POST
		MAILBOX
		SURVEY MONUMENT, IRON ROD
		SURVEY CONTROL POINT
		BORING LOCATION
		VACUUM EXCAVATION LOCATION
		SURVEY BENCHMARK
		DECIDUOUS TREE
		CONIFEROUS TREE
		TREE TO BE REMOVED

PIPING

DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE
FLANGED JOINT		FLANGED COUPLING ADAPTER		ELBOW UP
PLAIN OR GROOVED END MECHANICAL COUPLING		RESTRAINED FLANGED COUPLING ADAPTER		ELBOW DOWN
PUSH ON, MECHANICAL JOINT		UNION		TEE UP
WELDED JOINT		ELASTOMER & FABRIC EXPANSION JOINT		TEE DOWN
SLEEVE TYPE MECHANICAL COUPLING		EXPANSION JOINT (SEE SPECS FOR TYPE)		LATERAL UP
RESTRAINED SLEEVE TYPE MECHANICAL COUPLING		FLEXIBLE METAL HOSE		LATERAL DOWN
				REDUCER

THREE WAY VALVE	BALL VALVE (NORMALLY CLOSED)	CHECK VALVE	STRAINER	MOTOR OPERATED VALVE
GATE VALVE (NORMALLY OPEN)	BUTTERFLY VALVE	BALL CHECK VALVE	IN-LINE, SPRING LOADED RELIEF VALVE	PISTON OPERATED VALVE
GATE VALVE (NORMALLY CLOSED)	GLOBE VALVE	KNIFE GATE VALVE	PRESSURE REGULATING VALVE	MUD VALVE
PLUG VALVE (NORMALLY OPEN)	DIAPHRAGM VALVE	FLAP GATE	BACK PRESSURE REGULATING VALVE	WHARF HYDRANT
PLUG VALVE (NORMALLY CLOSED)	ANGLE VALVE	HOSE VALVE	SOLENOID VALVE	FIRE HYDRANT
BALL VALVE (NORMALLY OPEN)	PINCH VALVE	PRESSURE & VACUUM RELIEF VALVE	DIAPHRAGM OPERATED VALVE	UTILITY STATION
	NEEDLE VALVE	VACUUM RELIEF VALVE		BACK FLOW PREVENTER
	DOUBLE LEAF CHECK VALVE	PRESSURE RELIEF VALVE		HOSE BIBB

PIPING DESIGNATIONS

NEW PIPING

30"FM

PIPE SIZE — PIPING SYSTEM ABBREVIATION

EXISTING PIPING	FUTURE PIPING
12"W	6"W
30"RFI	
10"SD	
6"SS	

PIPING SYSTEM ABBREVIATIONS

1W	POTABLE WATER	RFI	RIVERFRONT INTERCEPTOR SEWER
2W	NON-POTABLE WATER	RS	RAW SEWAGE
3W	RECLAIMED WATER	RW	RECYCLED WATER
AA	AERATION AIR	SC	SCUM
AR	AIR RELEASE	SE	SECONDARY EFFLUENT
BP	BYPASS	SL	SLUDGE
D	DRAIN	SME	SAMPLE EFFLUENT
FE	FINAL EFFLUENT	SMP	SAMPLE OF PROCESS
FEF	FILTER EFFLUENT	SOB	SODIUM BISULFITE
FIF	FILTER INFLUENT	SOH	SODIUM HYPOCHLORITE
FM	FORCE MAIN	SS	SANITARY SEWER
OF	OVERFLOW	STO	STORM DRAIN
ML	MIXED LIQUOR	V	VENT
POS	POLYMER SOLUTION	WAS	WASTE ACTIVATED SLUDGE
PW	POTABLE WATER		
RAS	RETURN ACTIVATED SLUDGE		

MECHANICAL

	NATURAL GRADE UNDISTURBED SOIL
	AC PAVING SECTION
	CONCRETE SECTION
	AGGREGATE BASE/ CRUSHED ROCK
	COMPACTED SOIL
	UNDISTURBED SOIL
	CENTER LINE
PMP5006	EQUIPMENT CALLOUT

SECTION & DETAIL DESIGNATIONS

SECTION CUT ON DWG C101

5 / C02 — SECTION NUMBER; DRAWING WHERE SECTION APPEARS

ON DWG C02 THIS SECTION IS IDENTIFIED AS:

5 / C101 — SECTION NUMBER; DRAWING FROM WHICH SECTION WAS TAKEN

DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY LETTER RATHER THAN NUMBER.

SURVEY/HORIZONTAL CONTROL DATA

CITY OF ALBANY GPS BENCHMARK NO. 93277
T11S, R3W SECTION 5
LINN COUNTY, OREGON
SPCS DATUM: OREGON NORTH (INTERNATIONAL FEET)
NORTHING: 366084.659
EASTING: 7529737.285
VERTICAL DATUM: NGVD (29)
CAP ELEVATION=208.52
MONUMENT TYPE: 2" ALUMINUM CAP IN A STREET MONUMENT BOX.
STAMPING: LINN CO. GPS 93277.
LOCATION: CENTERLINE GEARY STREET AND SOUTH RIGHT-OF-WAY OF FRONT STREET.

ABBREVIATIONS

@	AT
AB	AGGREGATE BASE
ABAN(D)	ABANDON(ED)
ABS	ACRYLONITRYLE BUTADIENE STYRENE
AC	ASPHALT CONCRETE, ASBESTOS CEMENT
ACT	TRANSITE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
ASSY	ASSEMBLY
AVE	AVENUE
AVRV	AIR/VACUUM RELEASE VALVE
BC	BEGIN CURVE
BF	BLIND FLANGE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BNSF	BURLINGTON NORTHERN SANTA FE RAILROAD
BO	BLOW-OFF
BOC	BACK OF CURB
BOT	BOTTOM
BOV	BLOW-OFF VALVE
BP	BOTTOM OF PIPE
BV	BALL VALVE
BVC	BEGIN VERTICAL CURVE
CAV	COMBINATION AIR VALVE
CC	CENTER TO CENTER
CI	CAST IRON
C/L, ℄	CENTER LINE
CL	COPPER LINE
CLR	CLEAR
CLSM	CONTROL LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
CS	CORPORATION STOP
CTV	CABLE TELEVISION
CV	CHECK VALVE
CY	CUBIC YARDS
D	DRAIN
DEFL	DEFLECT, DEFLECTION
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DR	DRAIN, DIMENSION RATIO, DRIVE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST, EASTING
EA	EACH
EC	END HORIZONTAL CURVE
EF	EACH FACE
EG	EXISTING GROUND
EL	ELEVATION
ELEC	ELECTRIC(AL)
EOP, EP	EDGE OF PAVEMENT
EPS	EXPANDED POLYSTYRENE
EPSC	EROSION PREVENTION AND SEDIMENT CONTROL
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	EROSION AND SEDIMENT CONTROL
ESMNT	EASEMENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EX. (E)	EXISTING
EXP	EXPANSION
FCA	FLANGED COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FM	FORCE MAIN
FO	FIBER OPTIC
FOC	FACE OF CURB
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET, FOOT
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
GI	GALVANIZED IRON
GS	GROUND SURFACE
GSP	GROUND SURFACE PROFILE
GV	GATE VALVE
H	HEIGHT/HIGH, HORIZONTAL
HC	HANDICAPPED
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT IN PAVEMENT, HIGH PRESSURE
HPI	HORIZONTAL POINT OF INTERSECTION OR INFLECTION
HOR	HORIZONTAL
HW	HANDWHEEL
HWY	HIGHWAY
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IRR	IRRIGATION
JT(S)	JOINT(S)
LAT	LATERAL
LF	LINEAR FEET
LS	LIFT STATION
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MD	MACHINE DIRECTION
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MON	MONUMENT, MONITORING
MOV	MOTOR OPERATED VALVE
MR	METER REMOVED
MSDS	MATERIAL SAFETY DATA SHEETS
MV	METERING VAULT
N	NORTH, NORTHING
(N)	NEW
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NCP	NON-REINFORCED CONCRETE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODDW	STEEL, OUTSIDE DIAMETER, RIPPED AND WRAPPED
ODEQ	OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
OF	OVERFLOW
OH	OVERHEAD
OHP	OVERHEAD POWER
PCC	PORTLAND CONCRETE CEMENT
PCP	POLLUTION CONTROL PLAN
PDP	POWER DISTRIBUTION PANEL, PUMP DISCONNECT PANEL
PE	PLAIN END
PG	PRESSURE GAUGE
PH	PHASE
P/L, ℙ	PLATE, PROPERTY LINE
PL	PLASTIC LINE
PM	POWER MANHOLE
PNWR	PORTLAND & WESTERN RAILROAD
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PRV	PRESSURE REDUCING VALVE
PS	PUMP STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSV	PRESSURE RELIEF VALVE
PNT	POINT
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RDCR	REDUCER
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESTRAINED
REV	REVISION
RFCA	RESTRAINED FLANGE COUPLING ADAPTER
RFI	RIVERFRONT INTERCEPTOR SEWER
RR	RAILROAD
RT	RIGHT
RW	RECYCLED WATER
R/W	RIGHT OF WAY
S	SLOPE, SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SPCS	STATE PLANE COORDINATE SYSTEM
SPD	SUMP PUMP DISCHARGE
SPL	SPOOL
SQ	SQUARE
SS	SANITARY SEWER
SSB	STAINLESS STEEL BOLT
SSMH	SANITARY SEWER MANHOLE
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SVC	SERVICE
S/W	SIDEWALK
T, TEL	TELEPHONE
T&B	TOP & BOTTOM
TEC	TECHTITE
THK	THICK
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL OR TOP OF STRUCTURAL FRAME
TP	TOP OF PIPE
TRU	TRUSS
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
TSS	TOTAL SUSPENDED SOLIDS
TYP	TYPICAL
UG	UNDERGROUND
UNK	UNKNOWN
UNO	UNLESS NOTED OTHERWISE
UPRR	UNION PACIFIC RAILROAD
USACE	US ARMY CORPS OF ENGINEERS
V	VOLT(S), VERTICAL, VENT
VAR	VARIES, VARIOUS
VER	VERTICAL
VCP	VITRIFIED CLAY PIPE
VIF	VERIFY IN FIELD
VPI	VERTICAL POINT OF INTERSECTION
VTR	VENT THROUGH ROOF
W	WEST
W/	WITH
W/O	WITH OUT
WS	WATER SURFACE
WWF	WELDED WIRE FABRIC
WV	WATER VALVE
XING	CROSSING

REGISTERED PROFESSIONAL ENGINEER 86320PE Digitally Signed OREGON DEC 12, 2018 MATTHEW P. HEWITT
EXPIRES : 6/30/2019

QC REVIEW: _____
DATE: _____

THIS LINE IS 1 INCH
AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE : NONE
DRAWN BY : DKH
DESIGNED BY : BVB/DAM
PROJ. MGR. : WJM

No.	ZONE	REVISIONS	BY	DATE

WEST YOST ASSOCIATES
4949 Meadows Road
Suite 125
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(503) 451-4500
FAX (530) 756-4991

CITY OF ALBANY · OREGON · Inc. 1864

CITY OF ALBANY
RIVERFRONT INTERCEPTOR SEWER
LIFT STATION AND FORCE MAIN

LEGENDS AND ABBREVIATIONS

JOB NUMBER 519-14-18-18
DRAWING NUMBER **G02**
SHEET NUMBER 2 OF 59
REVISION

P:\Clients\519 City of Albany\14-18-18 Rvrfrnt Intrcptr Wet Wthr LS and FM\CAD\Production\51914-1818-G.dwg 4/16/2019 3:26 PM rmurnane