	PORARY WATER SERVICE NOTES
1. P F(RIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OR APPROVAL THE METHOD OF PROVIDING TEMPORARY DOMESTIC WATER SERVICE TO ALL FEECTED CUSTOMERS AND EMERGENCY FIRE SERVICE IF DEEMED NECESSARY THIS SHALL
IN 1.1.	CLUDE BUT NOT BE LIMITED TO: THE CONTRACTOR'S METHOD TO PROVIDE MAINTENANCE AND PROTECTION DURING THE
1.2.	ENTIRE LENGTH OF THE CONTRACT TO ENSURE CONTINUED WATER SERVICE. SIZES, MATERIALS OF CONSTRUCTION AND NSF (OR AT LEAST POTABLE WATER
1.3.	CERTIFICATION) OF TEMPORARY DOMESTIC AND FIRE PROTECTION LINES. MEANS AND METHODS FOR RAMPING OF TEMPORARY LINES AT DRIVEWAY ENTRANCES AND
	WALKWAYS IN ORDER TO PREVENT TRIP HAZARDS AND VEHICULAR DAMAGE. LINES CROSSING SIDEWALKS ARE REQUIRED TO BE RAMPED TO MEET ADA REQUIREMENTS AND
1.3	SHALL HAVE A MAXIMUM SLOPE OF 12:1. 1. <u>THE CONTRACTOR WILL LIKELY BE REQUIRED TO PROVIDE SHALLOW TRENCHES TO</u>
	ACCOMMODATE TEMPORARY WATER LINES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TRENCHES DURING CONSTRUCTION AND RESTORING THE SURFACES TO
1.4.	<u>ORIGINAL CONDITIONS AT THE END OF CONSTRUCTION.</u> MEANS AND METHODS FOR SECURING TEMPORARY WATER LINES (IF NOT SECURED BY
1.5.	RAMPING) FROM EXCESS MOVEMENT WHEN BEING DRIVED OVER BY VEHICLES. CHECK VALVES ON EACH RESIDENTIAL DOMESTIC CONNECTION FOR PROTECTION OF WATER
1.6.	SUPPLY. DISINFECTION AND TESTING PER AWWA C651-14 OF EACH TEMPORARY LINE PRIOR TO CONNECTION TO THE CUSTOMERS.
2. A	L TEMPORARY WATER CONNECTIONS SHALL BE COMPLETED BY A LICENSED VERMONT MASTER
W	ORK. NECESSARY PERMITS SHALL BE OBTAINED FROM BURLINGTON'S PLUMBING INSPECTOR
D	DES NOT APPLY TO TEMPORARY WATER CONNECTED TO UNDERGROUND WATER SERVICE LINES
3. A	LL COORDINATION WITH PRIVATE RESIDENCES SHALL BE COMPLETED BY THE CONTRACTOR.
4. A	NY TEMPORARY WATERLINES DEPICTED ON THE DRAWINGS ARE FOR PLANNING PURPOSES ONLY.
C	ONTRACTOR SHALL BE RESPONSIBLE FOR FINAL LAYOUT OF ALL TEMPORARY WATERLINES.
5. IF C TI	THERE IS NO FUNCTIONING BALL VALVE ADJACENT TO THE EXISTING METER THEN THE ONTRACTOR'S PLUMBER SHALL INSTALL A NEW BALL VALVE WHICH WILL BE PAID FOR WITH HE APPROPRIATE BID ITEM.
6. C T	ONTRACTOR SHALL WORK WITH HOMEOWNERS TO ENSURE THEY HAVE ADVANCED NOTICE PRIOR D BEING CONNECTED FROM TEMPORARY WATER TO REHABILITATED WATER MAIN. TURNING OFF
W IS	ATER TO HOMEOWNERS BECAUSE TEMPORARY WATER LINE IS SCHEDULED TO BE TAKEN AWAY NOT ACCEPTABLE.
7. C	ONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY WATER INSIDE BUILDINGS THAT IS
W Ti	ITHIN 5 PSI OF EXISTING WATER PRESSURE AT EACH HOUSE. WATER PRESSURE VARIES HROUGHOUT THE CITY AND THE APPROPRIATE PRESSURES CAN BE CONFIRMED BY THE CITY
W R TI	HEN REQUESTED BY THE CONTRACTOR.
U. TI	EMPORARY WATER LINES PROPOSED DURING FREEZING TEMPERATURES MAY NOT BE ALLOWED NLESS SPECIAL APPROVED PROTECTIVE MEASURES ARE IMPLEMENTED.
9. T E	EMPORARY WATER PLANS SHALL BE REVIEWED AND APPROVED BY WATER RESOURCES NGINEERING STAFF AND THE BURLINGTON FIRE DEPARTMENT PRIOR TO IMPLEMENTATION. THE
F(9.1.	DLLOWING BURLINGTON FIRE DEPARTMENT REQUIREMENTS MAY BE UPDATED AT ANY TIME. TEMPORARY HYDRANT PLACEMENT SHALL BE DONE IN ACCORDANCE WITH THE 2015 NFPA 1
9.2.	CHAPTER 18 CODE BOOK. FIRE HYDRANTS SHALL PROVIDE FOR DETACHED ONE- AND TWO-FAMILY DWELLINGS IN
9.2	ACCORDANCE WITH BOTH OF THE FOLLOWING: .1. MAXIMUM DISTANCE TO A FIRE HYDRANT FROM THE CLOSEST POINT ON THE BUILDING
9.2	SHALL NOT EXCEED 600-FEET. .2. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 800-FEET.
9.3.	FIRE HYDRANTS SHALL BE PROVIDED FOR BUILDINGS OTHER THAN DETACHED ONE- AND
9.3	1. MAXIMUM DISTANCE TO A FIRE HYDRANT FROM THE CLOSEST POINT ON THE BUILDING SHALL NO EXCEED 400-FEET
9.3	2. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 500-FEET.
9.4.	IF AN EXISTING HYDRANT IS GOING TO BE USED FOR PROVIDING WATER TO TEMPORARY HYDRANTS, WATER SUPPLY TO TEMPORARY HYDRANTS SHALL BE SUPPLIED FROM THE
	STEAMER OUTLET OF THE CLOSEST HYDRANT POSSIBLE. THIS CONNECTION NEEDS TO INCLUDE A 4-INCH STORZ CONNECTION AT THE SUPPLY HYDRANTS, WITH A VALVE TO
	ENABLE THE FIRE DEPARTMENT TO MAKE A CONNECTION WITHOUT SHUTTING THE SUPPLY HYDRANT DOWN.
9.5.	SUPPLY LINES FROM THE SUPPLY HYDRANT TO THE TEMPORARY HYDRANTS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 4—INCHES.

THE STANDARDS ARE TO BE USED BY ENGINEERING PROFESSIONALS FOR PROJECTS WITHIN THE CITY. THE STANDARD DETAILS MAY NEED TO BE MODIFIED WITH CITY APPROVAL TO MEET PROJECT SPECIFIC APPLICATIONS. THE STANDARDS DO NOT COVER ALL ASPECTS OF WATER RESOURCES INFRASTRUCTURE AND IT IS THE RESPONSIBILITY OF THE DESIGNER TO ENSURE CONSTRUCTION DETAILS ARE COMPLETE FOR SPECIFIC APPLICATIONS. THE CITY IS NOT RESPONSIBLE FOR THE USE OF THESE STANDARDS FOR APPLICATIONS THAT ARE NOT APPROPRIATE. THE STANDARD DETAILS WILL BE PERIODICALLY UPDATED. IT IS THE RESPONSIBILITY OF THE DESIGNER TO CONFIRM THE STANDARDS THEY ARE USING ARE THE MOST RECENT VERSIONS.

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WATER DISTRIBUTION & COLLECTION SYSTEM: AS-BUILT STANDARDS FOR WATER RESOURCES WORK IN THE ROW

- 1. THE FOLLOWING AS-E WHERE THE CONTRAC SHALL BE INCIDENTA CITY ENGINEER MAY [
- 2. FILES SHALL BE SUBM MUNICIPAL PROJECT DRAWING (.DWG) FORM SHAPEFILE FORMAT (NAD83 (HORIZONTAL) CITY'S GIS SOFTWARE.
- 3. PLANS SHALL ALSO E MAP OF THE ENTIRE PRE-EXISTING AND N UNDERGROUND PRE-E ABANDONED IN-PLACE ABANDONMENT WHERE ALL PRE-EXISTING AN 4. ALL DIGITAL FILES SH
- 5. APPLICABLE EENTITIES PROPERTIES SHALL E a. WATER MAIN EN
- b. WATER SERVICE c. WATER SYSTEM
- d. CURB STOP VAL
- e. CORP STOPS SI f. FIRE HYDRANTS
- g. FITTINGS (INCLU
- LAYER. h. WATER MAINS LAYER
- i. WATER SERVICE "WABANDONEDS
- WATER SYSTEM j.
- "WABANDONEDW. k. MANHOLES SHAI
- I. CATCH BASINS
- m. SANITARY SEWE "GRAVITY MAIN" n. PRESSURIZED
- LAYER. o. CURB SHALL BE
- p. SIDEWALK SHALI
- q. CURB RAMPS r. STREET PAVEME
- s. PAVEMENT MARI t. SIGNS SHALL B
- u. ELECTRICAL SHA
- v. TELECOM SHALL w. GAS SHALL BE
- x. DRIVEWAYS SHA
- y. PERMANENT EA z. PLANTERS SHAL
- bb. STRIPING SHALL
- cc. LANDSCAPING dd. PROPERTY BOUN
- a. LANDSCAPING

BUILT, REQUIREMENTS APPLY TO ALL NEW AND EXISTING STREETS CTOR IS COMPLETING INFRASTRUCTURE WORK. PAYMENT FOR THIS ITEM AL TO THE CONTRACT. BASED ON THE SCALE OF THE PROJECT. THE		THE CITY WILL PROVIDE A COPY OF A BLANK GEODATABASE CONSISTING OF CITY STANDARD FIELDS AND DOMAINS AS A TEMPLATE.		
DECIDE TO OMIT CERTAIN AS -BUILT REQUIREMENTS. MITTED TO THE CITY OF BURLINGTON'S WATER RESOURCES ENGINEER MANAGER IN A .DXF (DRAWING EXCHANGE FILE) FORMAT, AUTOCAD MAT, ESRI FILE GEODATABASE FEATURE CLASSES OR ARCVIEW .SHP). DIGITAL FILES SHOULD BE PROJECTED IN VT STATEPLANE FT, 0 AND NVD88 (VERTICAL). DATA FILES MUST BE COMPATIBLE WITH THE		ALL LINES REPRESENTING WATER MAINS, WATER SERVICE LINES, HYDRANT LATERAL LINES, AND FIRE SERVICES SHALL HAVE CONTINUOUS LINE WORK SNAPPED TO ENDPOINTS (I.E. FITTINGS VALVES OF HYDRANTS) ALL LINES REPRESENTING GRAVITY MAINS SHALL HAVE		
		CONTINUOUS LINEWORK SNAPPED TO ENDPOINTS (I.E. MANHOLES, INLETS, CLEANOUTS, OR OUTFALLS).		
		THE CONTRACTOR SHALL CORRESPOND WITH BURLINGTON'S WATER RESOURCES DIVISIONS' GIS MANAGER THE MUNICIPAL PROJECT MANAGER TO ADDRESS ANY QUESTIONS ON THE DETAILS OF SUBMISSIONS.		
BE SUBMITTED AS PDF FILES. PDF FILES SHALL SHOW A PLAN VIEW PROJECT AREA. PDF FILES SHALL HAVE SPECIFIC LABELS SHOWING NEWLY INSTALLED INFRASTRUCTURE. LABELS SHALL NOTE IF EXISTING INFRASTRUCTURE HAS BEEN REMOVED FROM THE GROUND OR CE PER CITY REQUIREMENTS. LABELS SHALL INCLUDE THE METHOD OF RELEVANT. LABELS SHALL STATE THE MATERIAL AND DIAMETER OF ND NEW INFRASTRUCTURE	8.	RECORD DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL WATER RESOURCES INFRASTRUCTURE INSTALLED OR IMPACTED UNDER THIS CONTRACT. THE FOLLOWING DATA SHALL BE COLLECTED WITH SURVEY GRADE EQUIPMENT AND SHALL BE PROVIDED TO BURLINGTON'S WATER RESOURCES DIVISIONS' PROJECT MANAGER AND GIS SPECIALIST IN AN ACCEPTABLE FORMAT THAT IS COORDINATED DIRECTLY WITH THE CITY:		
HALL BE SUBMITTED VIA EMAIL OR USB DRIVE IN A TIMELY MANNER.		a. WATER FITTINGS (BENDS, CAPS, TAPS, ETC., INCLUDE SIZE)		
		b. WATER HYDRANTS		
S IMPACTED BY THE CONTRACT WORK AND THEIR DATA LAYER		c. WATER VALVES (ACTIVE AND ABANDONED)		
NTITIES SHALL BE CREATED ON A "WMAIN" LAYER.		d. WATER CURB STOPS		
E LINES SHALL BE CREATED ON A "WSERVICELINE" LAYER.		e. WATER CORPORATION STOPS		
I VALVES SHALL BE CREATED ON A "WSYSTEMVALVE" LAYER.		F WATER LINES (MATERIAL SIZE DEPTH OF BURY TO TOP OF PIPE ACTIVE VERSUS		
ALVES SHALL BE CREATED ON A "WCURBSTOPVALVE" LAYER.		ABANDONED)		
SHALL BE CREATED ON A "WCORPSTOP" LAYER.		a. SANITARY SEWER/COMBINED SEWER/STORMWATER LINES (MATERIAL AND SIZE)		
S SHALL BE CREATED ON A "WHYDRANT" LAYER.		h. SANITARY SEWER/COMBINED SEWER/STORMWATER MANHOLES (SIZE AND INVERT		
UDING CAPS, TEES, TAPS, ETC.) SHALL BE CREATED ON A "WFITTINGS"		ELEVATIONS)		
ABANDONED IN PLACE SHALL BE CREATED ON A "WABANDONEDMAIN"		j. CURB		
ES ABANDONED IN PLACE SHALL BE CREATED ON A SERVICELINE" LAYER.		k. SIDEWALK I. CURB RAMPS		
1 VALVES ABANDONED IN PLACE SHALL BE CREATED ON A WATERVALVE" LAYER.		m. STREET PAVEMENT n. PAVEMENT MARKINGS		
ALL BE CREATED ON A "MANHOLE" LAYER.		o. SIGNS		
SHALL BE CREATED ON AN "INLET" LAYER.		p. ELECTRICAL		
ER/COMBINED SEWER/STORMWATER LINES SHALL BE CREATED ON A "LAYER.		q. TELECOM		
SANITARY SEWER LINES SHALL BE CREATED ON A "PRESSURIZED MAIN"		r DRIVEWAYS		
		s. PERMANENT FASEMENTS		
BE CREATED ON A "CURB" LAYER.		t TEMPORARY EASEMENTS		
LL BE CREATED ON A "SIDEWALK" LAYER. MULTI-USE PATH?		u PLANTERS		
SHALL BE CREATED ON A "CURB RAMP" LAYER.		v STRIPING		
ENT SHALL BE CREATED ON A "STREET" LAYER.		w LANDSCAPING		
RKINGS SHALL BE CREATED ON A "PAVEMENT MARKING" LAYER.		x PROPERTY BOUNDARIES		
BE CREATED ON A "SIGN" LAYER.				
HALL BE CREATED ON AN "ELECTRICAL" LAYER.	9.	RECORD DRAWINGS AND AS BUILT DOCUMENTS SHALL BE SUBMITTED TO THE CITY NO LATER		
L BE CREATED ON A "TELECOM" LAYER. CREATED ON A "GAS" LAYER.		THAN SIXTY DAYS OF THE COMPLETION OF THE PROJECT. ANY SEWER OR WATER		
		INFRASTRUCTURE ALTERED IN THE PROJECT NEEDS TO HAVE GPS SHOTS TAKEN AND AVAILABLE TO THE CITY WITHIN 48HRS OF COMPLETION OF CONSTRUCTION		
ALL BE CREATED ON A "DRIVEWAY" LAYER.				
ASEMENTS SHALL BE CREATED ON A "PERMANENT EASEMENT" LAYER. ALL BE CREATED ON A "PLANTER" LAYER.		IF ANY NEW RIGHT OF WAY IS DEEDED TO THE CITY, RECORD DRAWINGS SHALL ALSO		
		CONTAIN A STAMPED AND SIGNED STATEMENT BY A LICENSED LAND SURVEYOR THAT ALL PROPERTY CORNER MARKERS AND ROADWAY MONUMENTS HAVE BEEN SET IN ACCORDANCE WITH THE ACCEPTED PROPERTY PLAT.		
L BE CREATED ON A "STRIPING" LAYER.				
SHALL BE CREATED ON A "LANDSCAPING" LAYER.				
INDARIES SHALL BE CREATED ON A "PROPERTY BOUNDARY" LAYER.				

ee. MISCELLANEOUS LINES, POINTS, AND TEXT ANNOTATIONS SHOULD BE PLACED ON UNIQUE LAYERS DIFFERENT FROM ONES REFERENCED ABOVE.

REV A – INITITAL RELEASE	OCT 2023





	DESIGNED AEW	RFS NO.
TYPICAL WATER	DRAWN AEW	SCALE NTS
SYSTEM DETAILS II	CHECKED	DRAWING NO.
	DATE OCTOBER 2023	SHEET 2 OF 2