

STANDARD

TYPICAL

TOP OF CURB

TRANSPORTATION

TEMPORARY BENCHMARK

VIRGINIA DEPARTMENT OF

STD

TBM

TYP

CONC

EXIST

EP

FF

CONCRETE

EXISTING

EDGE OF PAVEMENT

FINISHED FLOOR

FINISH GRADE

= = = 8"SD===

———2"G ——

----OHU----

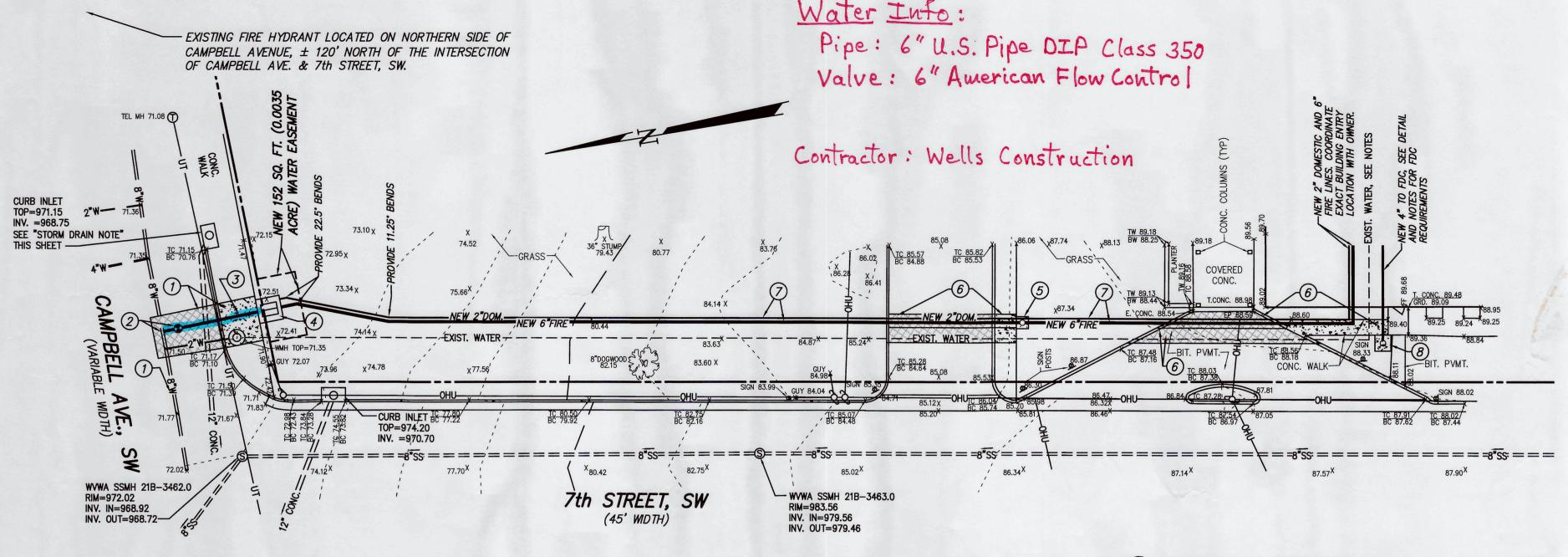
— UE —— UT—

STORM DRAIN

OVERHEAD UTILITY LINES

UNDERGROUND TEL OR ELEC LINE

GAS LINE



TEMPORARY BENCHMARK: DROPOFF ISLAND ELEV. = 988.24

FIRE & DOMESTIC WATERLINE CONSTRUCTION REQUIREMENTS

EXISTING CONDITIONS:

(NO CURRENT FIRE SERVICE)

DOMESTIC (SEE PLAN AND NOTES)

UPON ENERGIZING NEW FIRE AND DOMESTIC LINES AS DESCRIBED BELOW, REMOVE EXISTING DOMESTIC METER VAULT IN ITS ENTIRETY. REMOVE ALL 2-INCH WATERLINE BETWEEN VAULT AND 8-INCH MAIN, REMOVE TAPPING SLEEVE OR REDUCING TEE AT MAIN, AND SLEEVE 8-INCH MAIN. PROVIDE HEAVY-DUTY PAVEMENT REPLACEMENT AND CONCRETE SIDEWALK AS REQUIRED, SEE DETAILS.

UNDER PROPOSED CONDITIONS:

ALL NEW WATERLINE MATERIALS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS. ALL BACKFILL UNDER HARD SURFACES SHALL BE COMPACTED TO MIN. 95% OF STANDARD PROCTOR (ASTM D698). IN AREAS OF GRASS AND LANDSCAPING, COMPACT TO 95% PROCTOR TO WITHIN 8-INCHES OF FINISH GRADE, COMPACT LAST 8" (TOPSOIL) TO 80% STANDARD PROCTOR.

FIRE & DOMESTIC

- (1.) SAW-CUT EXISTING STREET PAVEMENT AND PUBLIC SIDEWALK. SEE DETAILS FOR HEAVY-DUTY PAVEMENT, PAVEMENT REPLACEMENT, AND CONCRETE SIDEWALK FOR REPLACEMENT REQUIREMENTS. WHERE REQUIRED, REPLACE PUBLIC CONCRETE CURBING WITH NEW CONCRETE CURB TO MATCH EXISTING IN FINISH & SECTION, USING VDOT STANDARD A-3 CONCRETE, MIN 3.000 psi.
- (2.) PROVIDE A NEW 6" WET-TAP TO THE EXISTING PUBLIC WATER MAIN. ALL MATERIALS AND LABOR SHALL BE PROVIDED BY CONTRACTOR, ASIDE FROM THE ACTUAL ACT OF PERFORMING THE WET-TAP, WHICH WILL BE PERFORMED BY THE WVWA. INSTALL NEW 6" GATE VALVE AND TRAFFIC BEARING VALVE BOX. VALVE SHALL BE CONNECTED TO REDUCING TEE. COORDINATE INSPECTION REQUIREMENTS WITH THE WVWA.
- (3.) PROVIDE NEW 6" LINE FROM MAIN TO NEW COMBINATION VAULT.
- (4.) PROVIDE AND INSTALL A NEW WVWA STANDARD 'W-7' COMBINATION FIRE / DOMESTIC VAULT FOR 6-INCH FIRE LINE AND 2-INCH DOMESTIC LINE, SEE DETAIL, THIS SHEET. FINISH TOP OF VAULT SHALL BE SET FLUSH WITH BACK OF SIDEWALK AND SURROUNDING GRADE.
- (5.) PROVIDE NEW POST INDICATOR VALVE (PIV) ASSEMBLY, INTERCONNECT WITH FIRE SUPPRESSION PANEL AS REQUIRED BY SPRINKLER CONTRACTOR. PLACE 3'x3'x6" THICK CONCRETE PAD. TOP OF PAD TO MATCH TOP OF EXISTING WALK.
- (6.) SAW-CUT / REMOVE EXISTING ON-SITE BITUMINOUS PAVEMENT AND CONCRETE CURB & SIDEWALK. SEE DETAILS FOR STANDARD DUTY PAVEMENT AND SIDEWALK FOR REPLACEMENT. WHERE REQUIRED. REPLACE ON-SITE CONCRETE CURBING WITH NEW CONCRETE CURB TO MATCH EXISTING IN FINISH & SECTION. USING VDOT STANDARD A-3 CONCRETE, MIN 3,000 psi.
- (7.) PROVIDE NEW 6-INCH FIRE AND NEW 2-INCH DOMESTIC LINES FROM VAULT TO POINTS OF BUILDING ENTRY. COORDINATE EXACT POINTS OF BUILDING ENTRY WITH OWNER AND / OR FIRE SUPPRESSION CONTRACTOR.
- (8.) PROVIDE NEW FIRE DEPARTMENT CONNECTION (FDC) ON CONCRETE PAD AS SHOWN AND DETAILED HEREON. THE CONTRACTOR SHALL PROVIDE 5-INCH STORZ' CONNECTION WITH 30-DEGREE ELBOWS ON THE FDC, AND SHALL PROVIDE AND INSTALL KNOX BOX LOCKING 5-INCH STORZ CAPS. PROVIDE NEW BUILDING MOUNTED "FDC' SIGNAGE DIRECTLY ADJACENT TO STANDPIPE. SIGNAGE SHALL BE WHITE BACKGROUND WITH RED LETTERS, AND SHALL BE EASILY VISIBLE FROM THE PUBLIC STREET.
- (9.) UPON COMPLETION OF ALL TESTING BY CONTRACTOR, AND INSPECTIONS BY THE WVWA, THE NEW SERVICES MAY BE ACTIVATED. FOLLOWING ACTIVATION OF NEW SERVICES, PERFORM REMOVAL OF EXISTING LATERAL AND METER AS DESCRIBED ABOVE. IT IS SUGGESTED THAT ALL OF THE DOMESTIC WATER PIPE SHOULD BE REMOVED IN ITS ENTIRETY, HOWEVER, IF APPROVED BY OWNER IN WRITING, THOSE PRIVATE PORTIONS OF THE EXISTING DOMESTIC WATER LATERAL THAT WILL NOT BE IN CONFLICT WITH PROPOSED IMPROVEMENTS MAY BE ABANDONED IN-PLACE. IF ABANDONED, TERMINAL ENDS SHALL BE PLUGGED AND CAPPED TO PREVENT SOIL AND / OR RODENT INFILTRATION.

Existing 2" service was cut downstream of the corp stop at the main, and the corp stop was turned off. Existing 2" service line was abandoned in ground and existing meter vault was abandoned WATER OR GAS METER in ground. FIRE HYDRANT MANHOLE CLEANOUT DROP INLET (CURB OR GRATE)

UTILITY POLE, GUY & ANCHOR

PROPERTY LINE

BENCHMARK

These Plans Have Been Reviewed For Code Compliance This Plan Review does not relieve the ROANOKE comply with all applicable codes The issuance of a permit based on these plans shall not event the Building Official from thereafter requiring a c rection of errors in plans, construction, or violations of the code. is copy of the plans must be kept at the site of work and shall be open to inspection by the Suliding Official or his authorized representative Approved by Tommy Hahn 03/17/2023 9:40:07 AM

STORM DRAIN NOTE:

THE SURVEYOR WAS UNABLE TO CONFIRM THE SLOPE OF THE EXISTING 12" STORM DRAIN PIPE THAT LIES IMMEDIATELY EAST OF THE POINT OF NEW WATERLINE INTERCONNECTION. IT IS SUSPECTED THERE MAY BE A STORM DRAIN

THE CONTRACTOR SHALL PERFORM AN EXPLORATORY EXCAVATION IN THE AREA WHERE THE NEW WATERLINE CROSSES THE STORM DRAIN TO CONFIRM THERE IS NO CONFLICT WITH THE TWO PIPELINES, AND INFORM THE ENGINEER IMMEDIATELY IF CONDITIONS EXIST THAT WOULD AFFECT THE INSTALLATION OF NEW IMPROVEMENTS SHOWN HEREON.

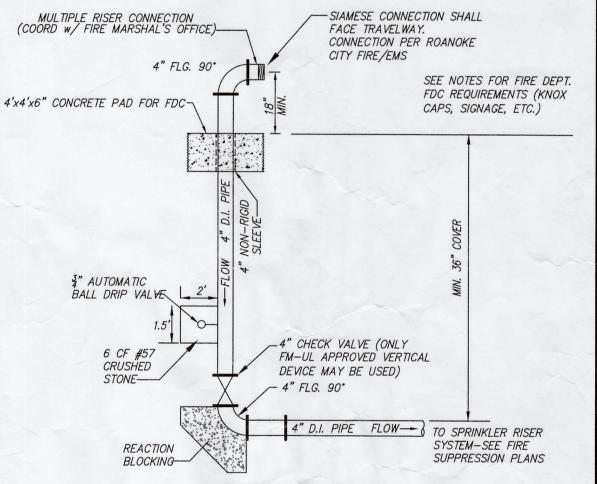
EXISTING WATERLINE NOTES:

ACCORDING TO THE WVWA GIS, THE BUILDING IS SERVED BY AN EXISTING TWO-INCH WATER METER, AND PRESUMABLY A TWO INCH DOMESTIC WATER LATERAL. THE ALIGNMENT SHOWN IS APPROXIMATE, BASED ON PAVEMENT AND SIDEWALK PATCHES OBSERVED IN THE FIELD.

AS-BUILT AND EASEMENT REQUIREMENTS:

FOLLOWING COMPLETION OF CONSTRUCTION AND TESTING. BUT PRIOR TO TH REQUIRED TO HAVE AN AS-BUILT SURVEY AND PLAN OF THE NEW VAULT. PIV. AND FDC PREPARED BY A VIRGINIA LICENSED LAND SURVEYOR AND SUBMITTED TO THE WVWA FOR REVIEW AND APPROVAL. UPON FULL ACCEPTANCE OF THE AS-BUILTS, AND ASSUMING ALL OTHER REQUIREMENTS HAVE BEEN MET, THE WVWA MAY GRANT SUBSTANTIAL COMPLETION.

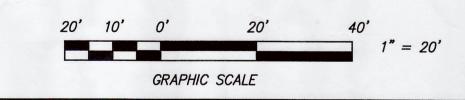
FOLLOWING THE AS-BUILT FIELD LOCATION OF THE NEW IMPROVEMENTS. A FORMAL EASEMENT PLAT IS REQUIRED TO BE PREPARED BY A VIRGINIA LICENSED LAND SURVEYOR, AND REVIEWED AND APPROVED BY THE WVWA. THE PROJECT WILL NOT BE DEEMED COMPLETE UNTIL SUCH EASEMENT PLAT IS RECORDED AT THE CLERK'S OFFICE OF THE CIRCUIT COURT OF THE CITY OF ROANOKE. AND RECORDED COPIES PROVIDED TO THE WVWA.

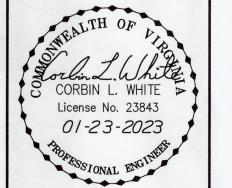


AS AN ALTERNATIVE TO THE CONCRETE PAD, THE CONTRACTOR MAY INSTALL A 4' INTERIOR DIAMETER DOGHOUSE MANHOLE WITH FLAT TOP. WITH A HOLE CUT IN THE FLAT-TOP FOR FDC STANDPIPE. INSURE THAT AUTOMATIC DRIP VALVE IS INSTALLED ON THE FDC SIDE OF THE CHECK VALVE.

FIRE DEPARTMENT CONNECTION (FDC)

ALL NEW WATERLINE MATERIALS, FABRICATION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS.



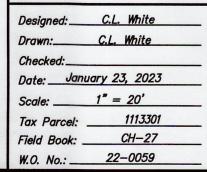


RELIABLE WELDING & FABRICATORS, INC.

NEW FIRE SERVICE LATERAL AND VAULT

TO BE CONSTRUCTED FOR NEW FIRE SUPPRESSION SYSTEM FOR KAZIM TEMPLE CORP.

> SITUATE 628 CAMPBELL AVENUE, SW CITY OF ROANOKE, VIRGINIA



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