

BRISTOL WEST WATERLINE REPLACEMENT PROJECT BRISTOL, VERMONT

DWSRF LOAN NUMBER:
RF3-553-2.0
VTM JOB NO. 22-1.3
AUGUST, 2024

**PROJECT LOCATION:
BRISTOL, VT**

INDEX OF SHEETS

SITE:

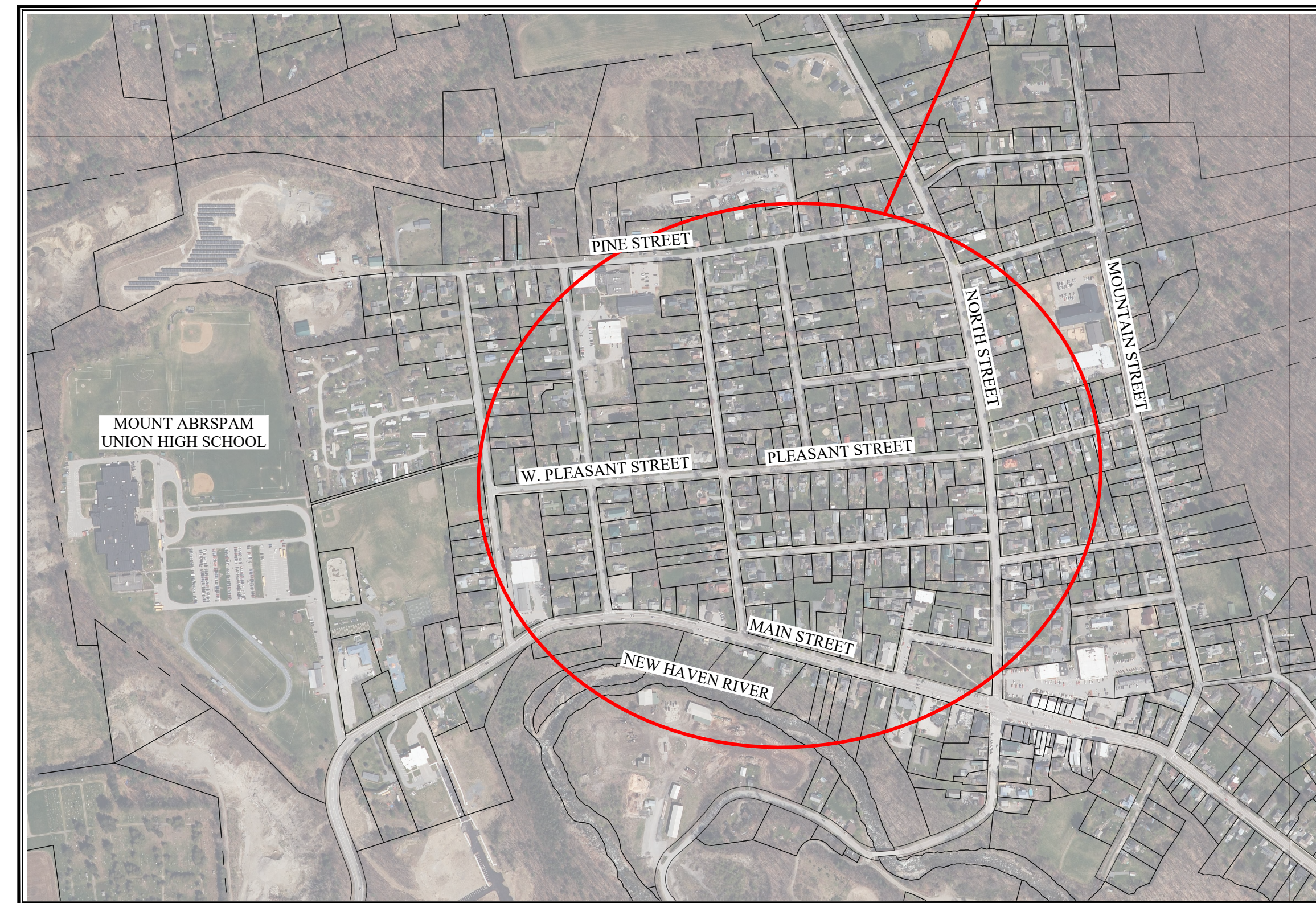
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GENERAL NOTES:

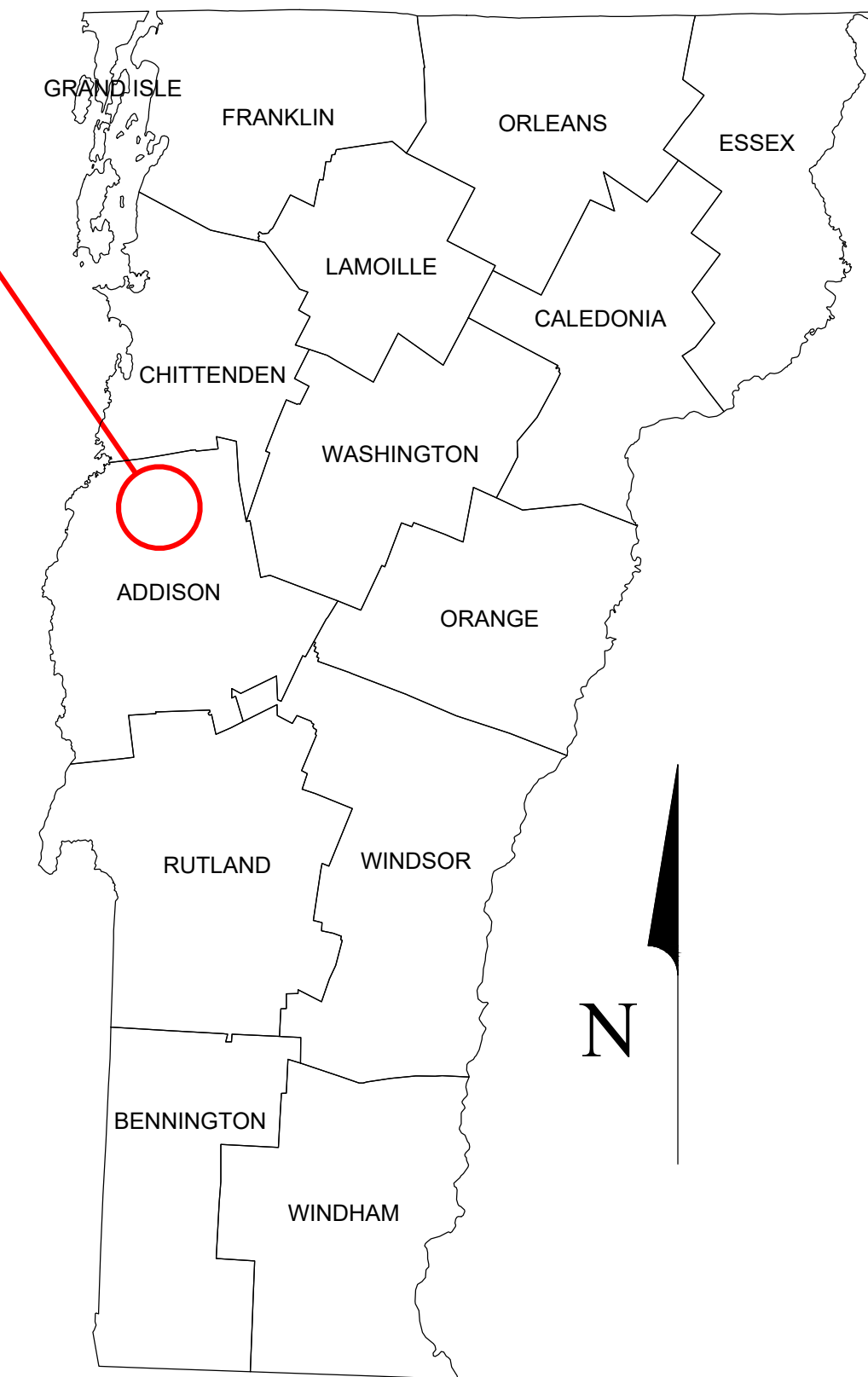
- UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) PRIOR TO ANY CONSTRUCTION.
- THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. RIGHT OF WAY WIDTHS PROVIDED BY LAROSE SURVEYS. LOCATIONS SHOWN ARE APPROXIMATE BASED ON THE CENTER LINE OF THE ROAD.
- SITE INFORMATION IS BASED ON FIELD SURVEYS PERFORMED BY VTM ENGINEERING 2023-2024 AND THE NOTED PLAN REFERENCES. VTM ENGINEERING SURVEY ORIENTATION IS "GRID NORTH", VERMONT COORDINATE SYSTEM OF 1983 (HORIZONTAL) AND NAVD88 (VERTICAL) ESTABLISHED FROM GPS OBSERVATIONS ON SITE.
- UTILITY POLES WITH NEED TO BE SUPPORTED AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, COORDINATION WITH THE UTILITY COMPANY AND ANY EXPENSE INCURRED.
- EXISTING TREES WILL REQUIRE TRIMMING AND/OR REMOVAL FOR WATER LINE AND SERVICE LINE INSTALLATION. FIELD CONDITIONS MAY DICTATE TRIMMING/REMOVAL AND MAY NOT BE NOTED IN ALL LOCATIONS ON PLANS.

PLAN REFERENCES:

- NORTH STREET STORMWATER IMPROVEMENTS, BRISTOL, VERMONT - RECORD DRAWINGS, PREPARED BY GREEN MOUNTAIN ENGINEERING, DATED 10/28/10.
- WEST STREET & LOVERS LANE INFRASTRUCTURE IMPROVEMENTS, BRISTOL, VERMONT - RECORD DRAWINGS, PREPARED BY GREEN MOUNTAIN ENGINEERING, DATED 11/14/18.
- WATER SERVICE CONNECTION - PARK STREET STUB, BRISTOL VILLAGE CO-HOUSING, PREPARED BY GROVER ENGINEERING, DATED JANUARY 16, 2017.
- SIGNAL PROJECT HES 021-1 (28), SHEETS 12, 13, 19, 29, PREPARED BY STANTEC
- VILLAGE OF BRISTOL SEWER/STORMWATER/WATER SYSTEM PLANS, PREPARED BY GREEN MOUNTAIN ENGINEERING, REVISION DATE APRIL 10, 2006.



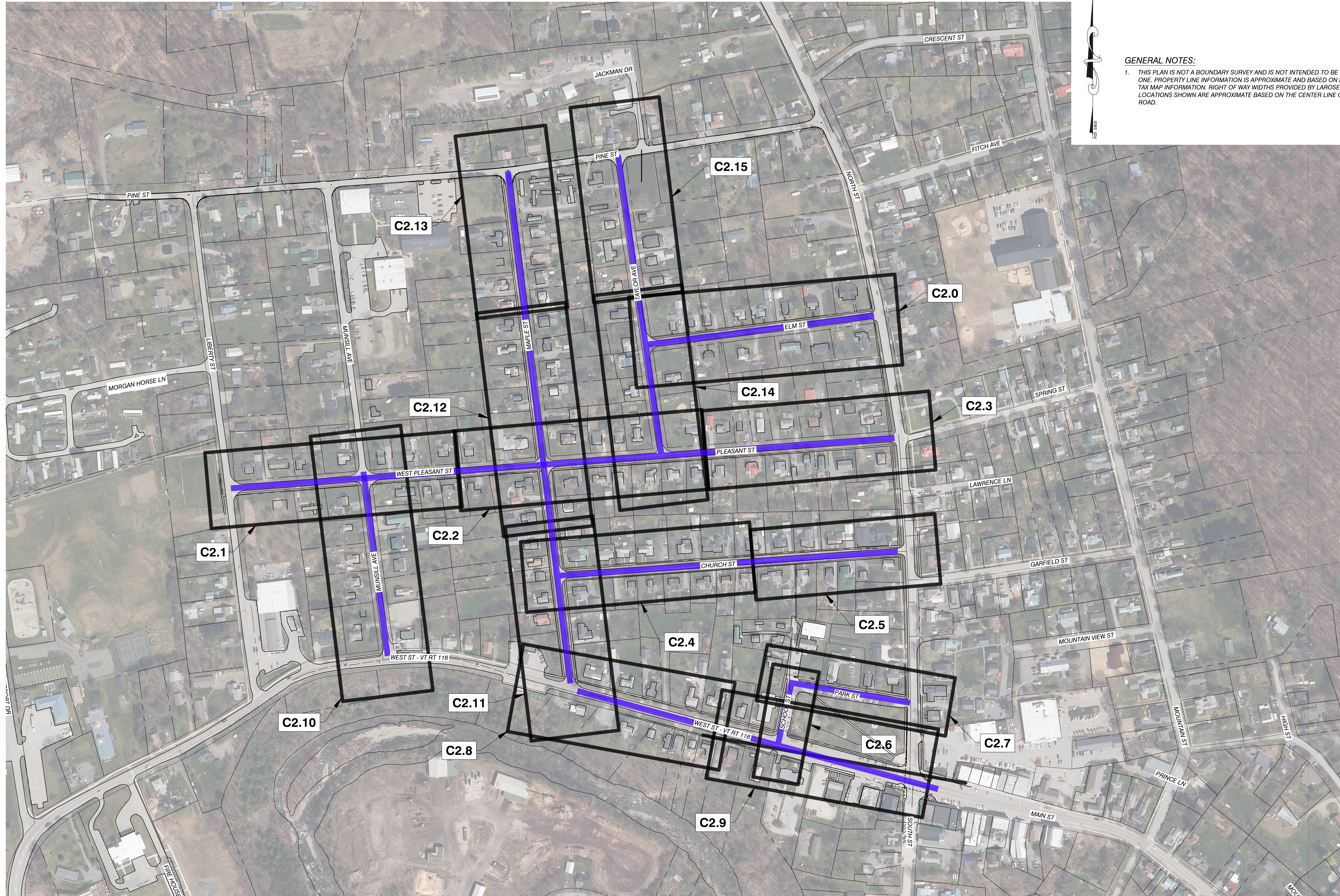
LOCATION MAP - BRISTOL, VERMONT
1" = ±500'



90% REVIEW PLANS

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HINESBURG, VT 05461
(802) 233-7531

VTM ENGINEERING, PLC 2941 SHELBURNE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531		REV.	DATE	DESCRIPTION	BY
PRELIMINARY PLANS NOT FOR CONSTRUCTION					
COVER SHEET & LOCATION MAP	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443				
DESIGNED	SP	PLLOT DATE	-		
DRAWN	PM	SCALE	AS SHOWN		
CHECKED	SP	DATE	-		
PROJECT NO. 22.1.3					
DRAWING NO. C1					



GENERAL NOTES:

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PRELIMINARY PLANS
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BRISTOL WEST WATER REPLACEMENT
 - PLAN LAYOUT
 BRISTOL WEST WATER
 REPLACEMENT PROJECT
 TOWN OF BRISTOL
 1 SOUTH STREET, BRISTOL VT 05443

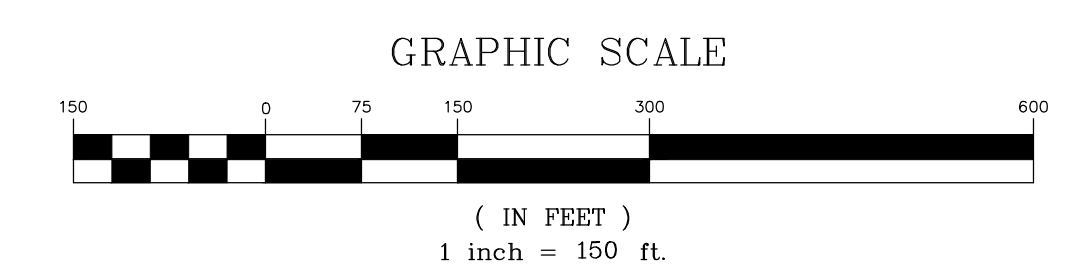
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DRAWN	PM	SCALE	AS SHOWN
CHECKED	SP	DATE	

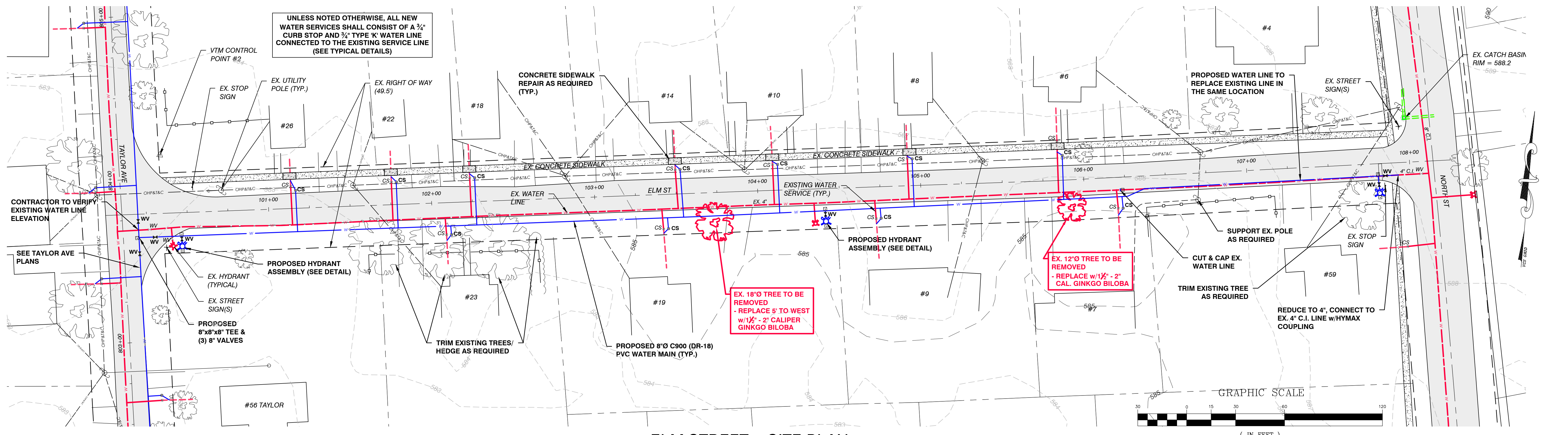
PROJECT NO.
 22.1.3

DRAWING NO.
C1.0

REV.	DATE	DESCRIPTION	BY

**BRISTOL WEST WATER
 REPLACEMENT - PLAN LAYOUT**
 SCALE: 1" = 150'

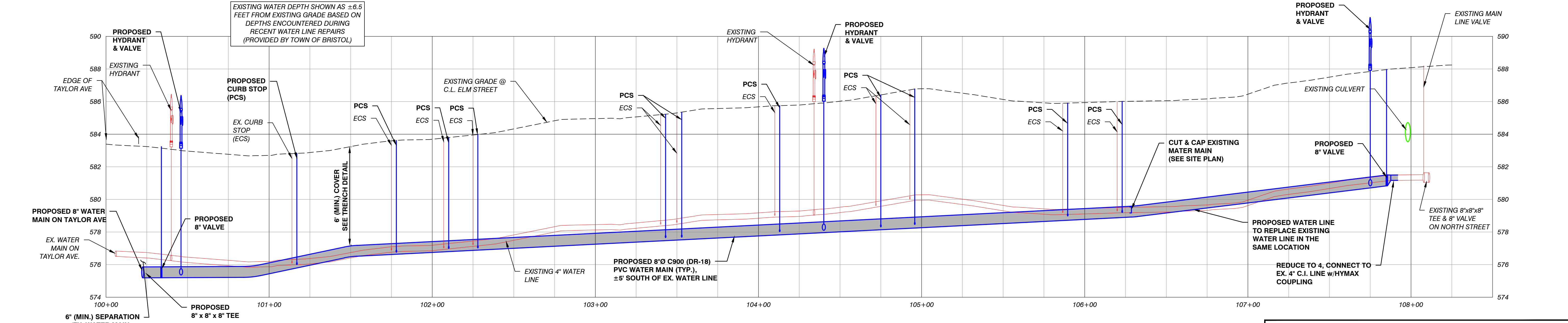




ELM STREET - SITE PLAN
SCALE: 1" = ±30'

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ELM STREET - PROFILE
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION

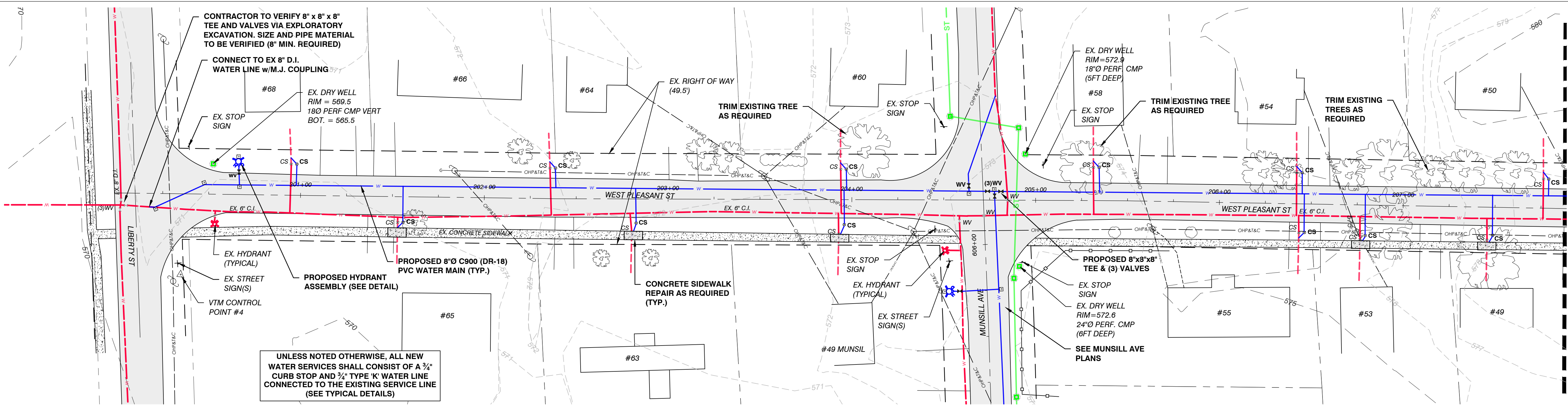
ELM STREET PLAN & PROFILE

DESIGNED: SP
DRAWN: PM
CHECKED: SP

PROJECT: BRISTOL WEST WATER REPLACEMENT PROJECT
CLIENT: TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGN DATE: 1
SCALE: AS SHOWN
DATE: --

PROJECT NO. 22.1.3
DRAWING NO. **C2.0**



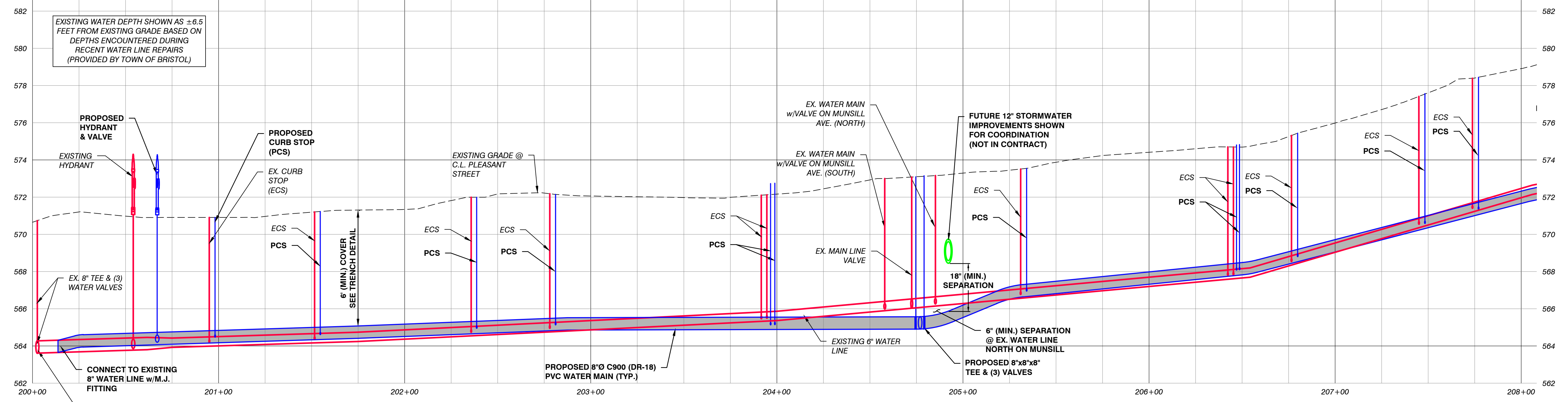
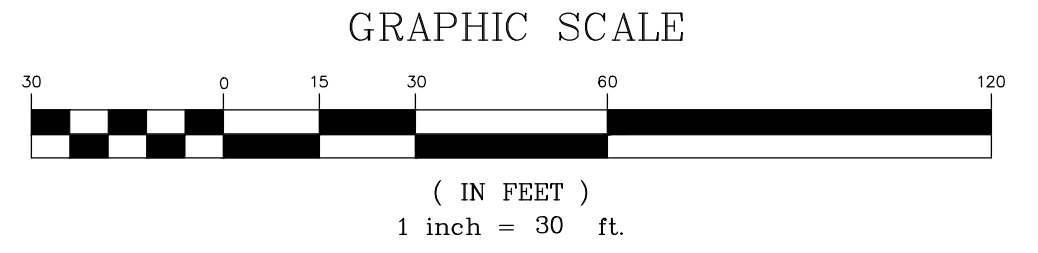
UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A 3/4" CURB STOP AND 3/4" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)

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WEST PLEASANT STREET - SITE PLAN

SCALE: 1" = ±30'



WEST PLEASANT STREET - PROFILE

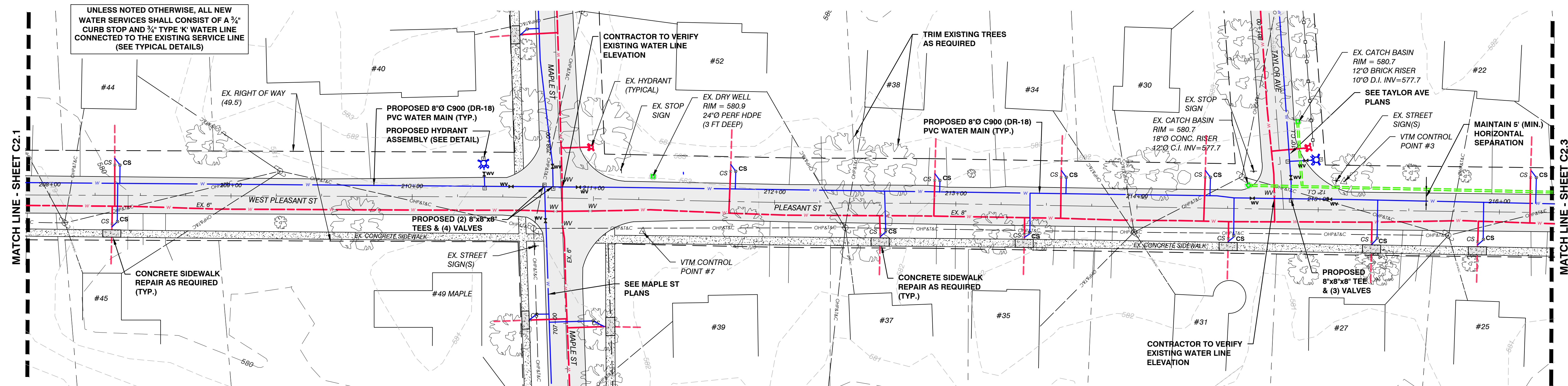
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

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**PRELIMINARY PLANS
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DESIGNED	SP	PLLOT DATE	
DRAWN	PM	SCALE	AS SHOWN
CHECKED	SP	DATE	
PROJECT NO.		22.1.3	
DRAWING NO.		C2.1	

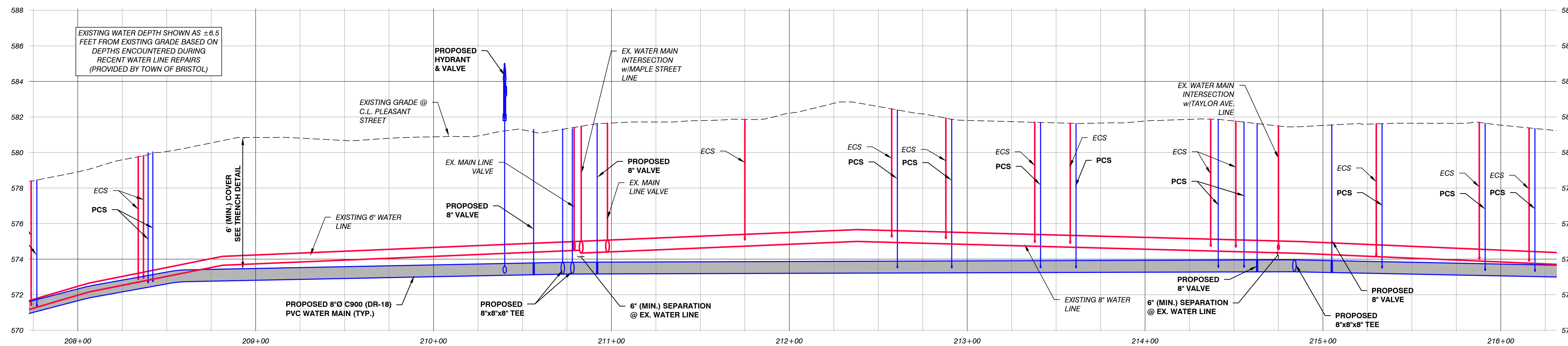
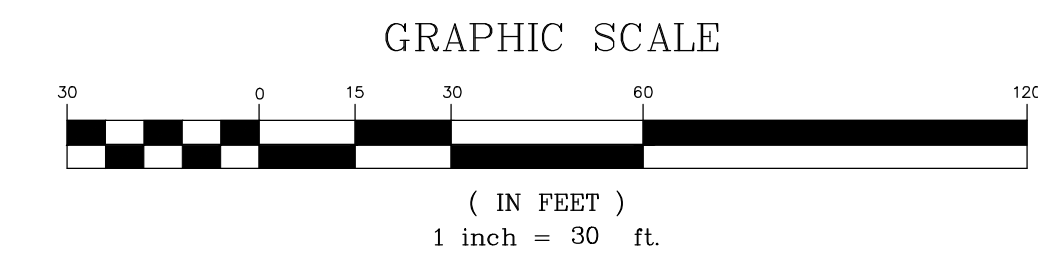


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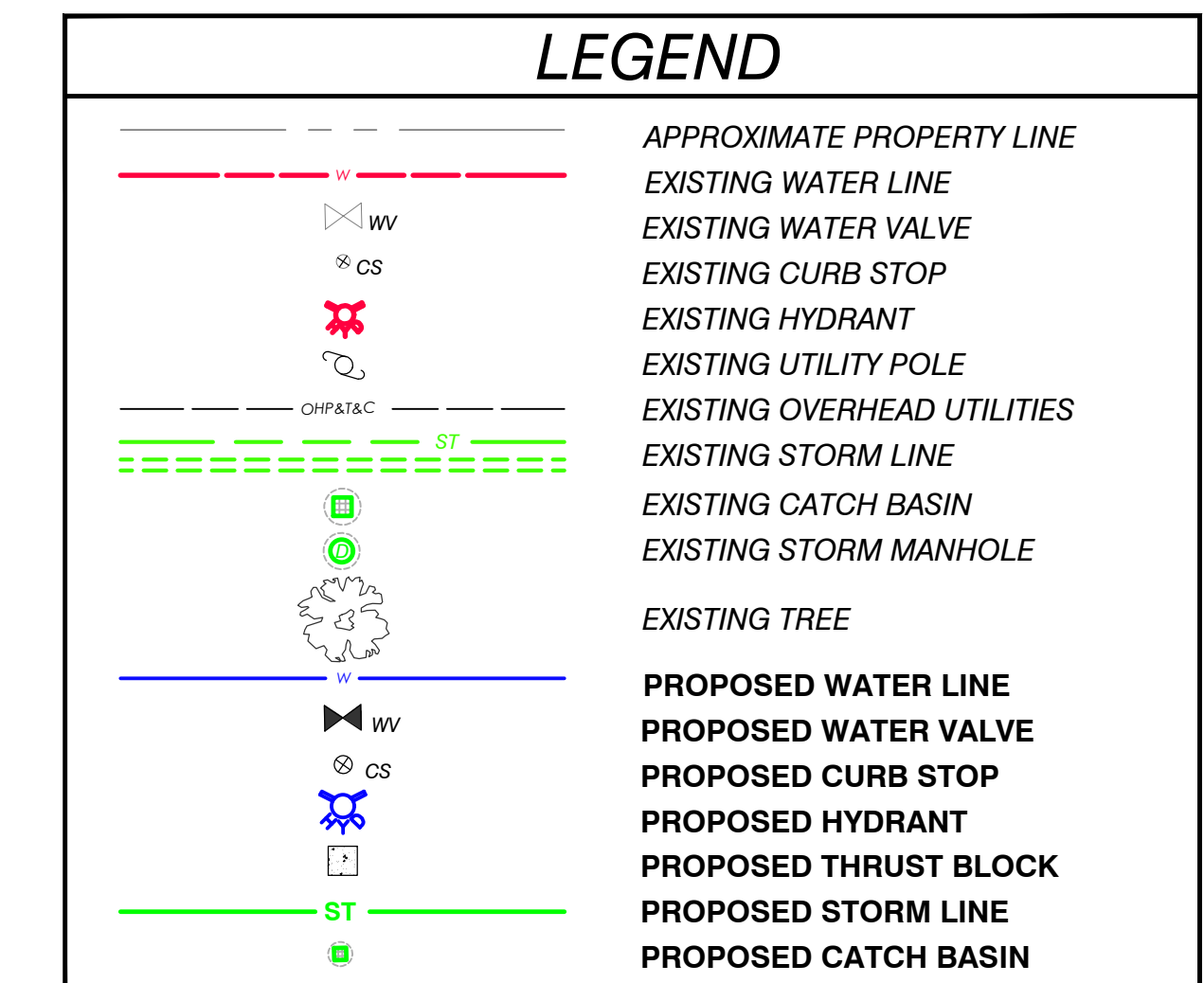
WEST PLEASANT/PLEASANT STREET - SITE PLAN

SCALE: 1" = ±30'

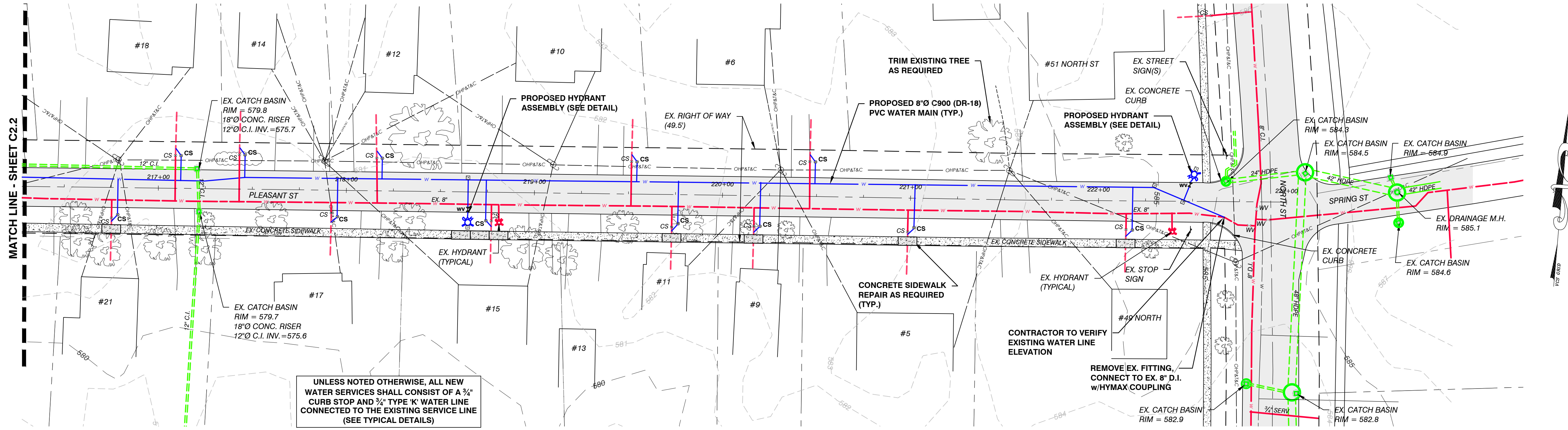


WEST PLEASANT/PLEASANT STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



BY	DESCRIPTION	DATE	REV.	DATE	BY	DESCRIPTION
<p>VTM ENGINEERING, PLC 2941 SHELBURNE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531</p>						
<p>PRELIMINARY PLANS NOT FOR CONSTRUCTION</p>						
<p>PLEASANT STREET PLAN & PROFILE</p>						
<p>BRISTOL WEST WATER REPLACEMENT PROJECT</p>						
<p>TOWN OF BRISTOL</p>						
<p>1 SOUTH STREET, BRISTOL, VT 05443</p>						
DESIGNED	SP	PLLOT DATE				
DRAWN	PM	SCALE	AS SHOWN			
CHECKED	SP	DATE				
<p>PROJECT NO. 22.1.3</p>						
<p>DRAWING NO. C2.2</p>						

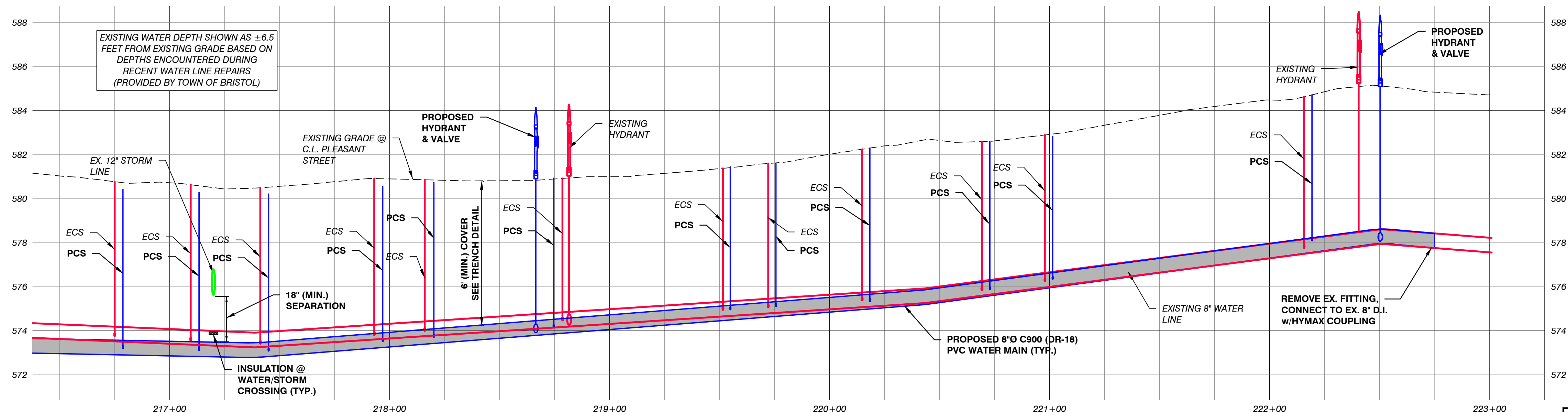
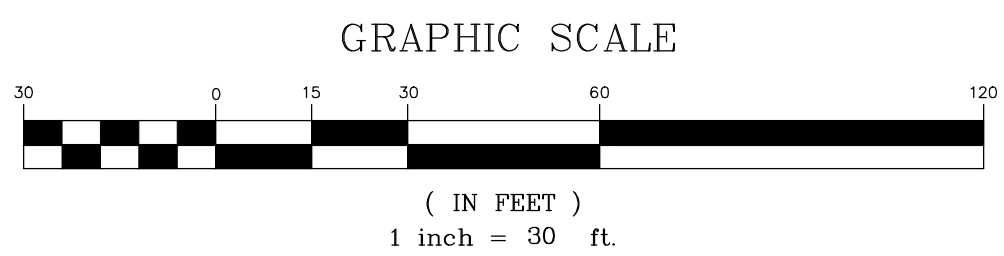


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PLEASANT STREET - SITE PLAN

SCALE: 1" = ±30'

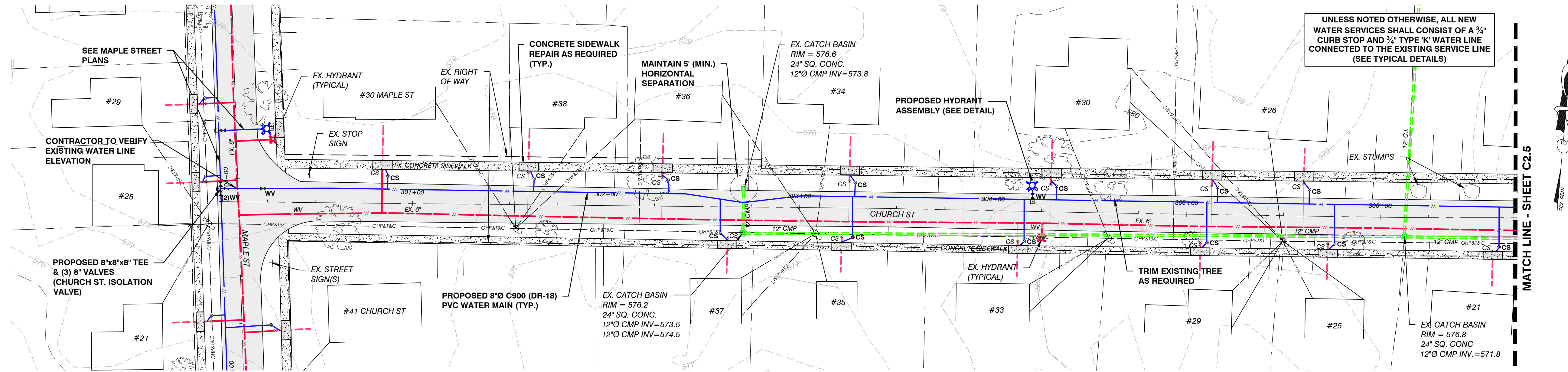


PLEASANT STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531	
PRELIMINARY PLANS NOT FOR CONSTRUCTION	
DESIGNED: SP	PROJECT: BRISTOL WEST WATER REPLACEMENT PROJECT
DRAWN: PM	TOWN OF BRISTOL
CHECKED: SP	1 SOUTH STREET, BRISTOL VT 05443
PROJECT NO. 22.1.3	
DRAWING NO. C2.3	

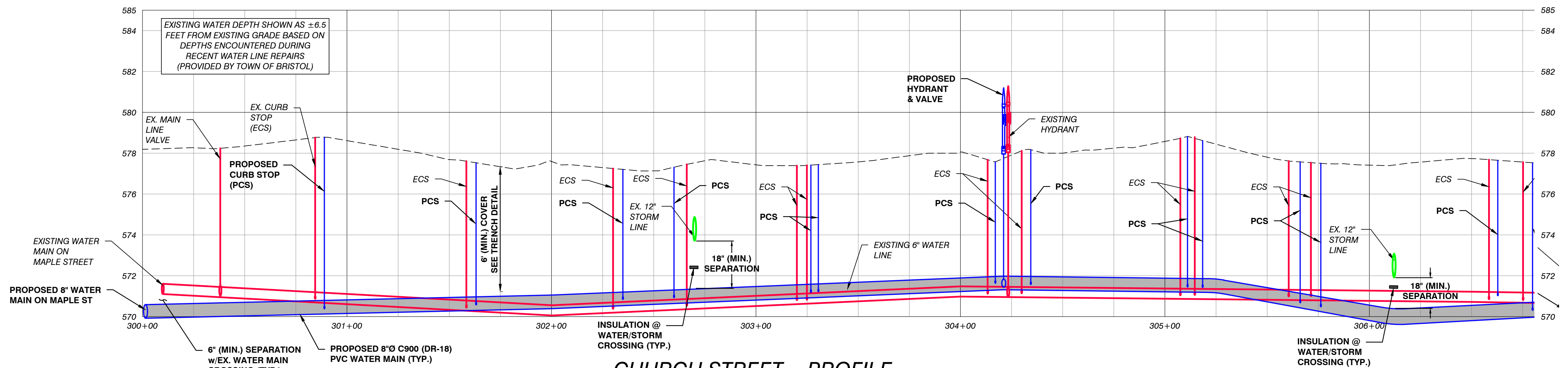
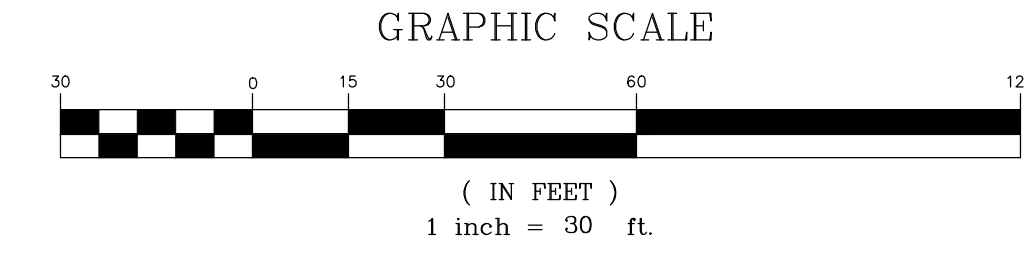


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CHURCH STREET - SITE PLAN

SCALE: 1" = ±30'



SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

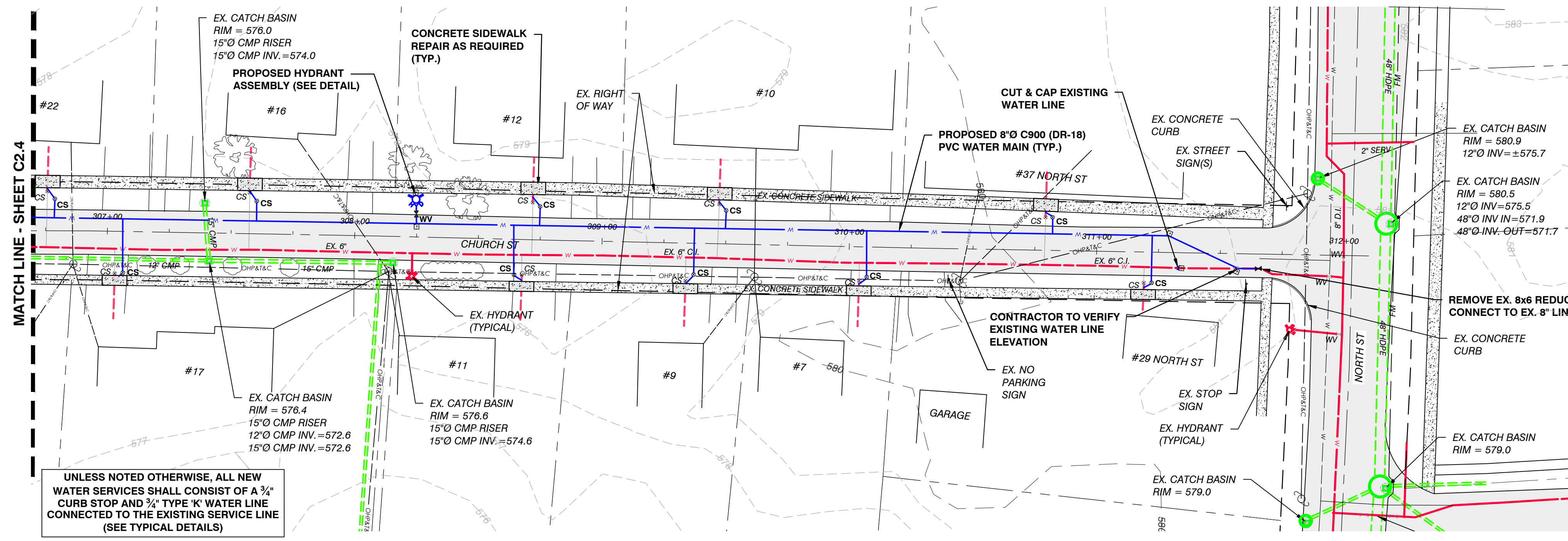
LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

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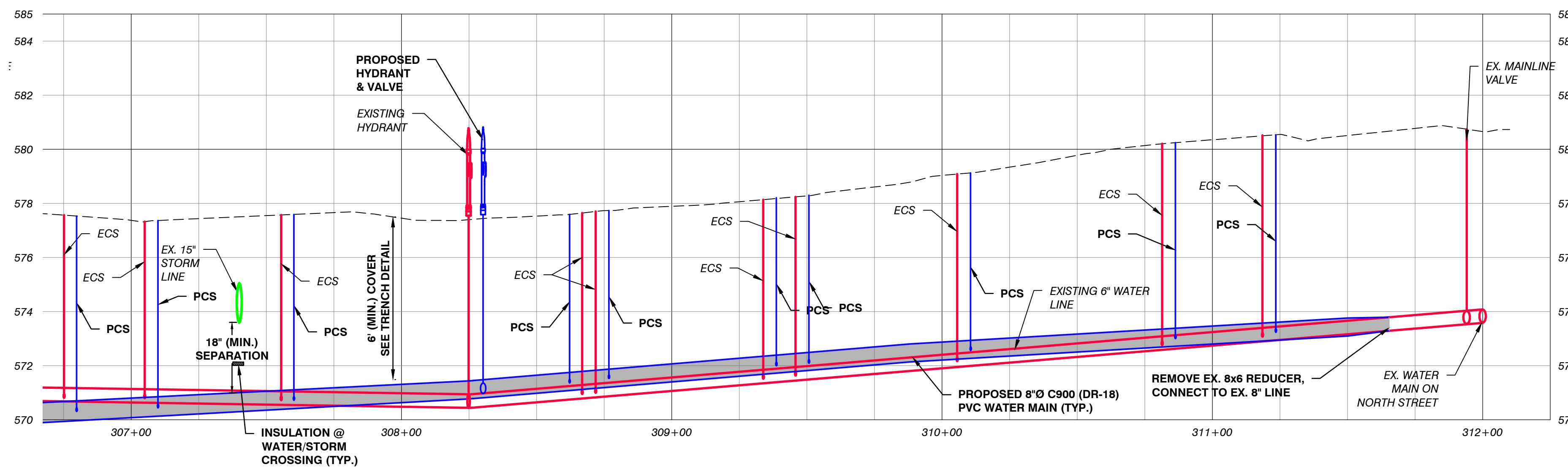
PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CHURCH STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT	TOWN OF BRISTOL	1 SOUTH STREET, BRISTOL VT 05443
DESIGNED: SP	PILOT DATE: 1	SCALE: AS SHOWN	DATE: --
DRAWN: PM	CHECKED: SP	PROJECT NO. 22.1.3	DRAWING NO. C2.4

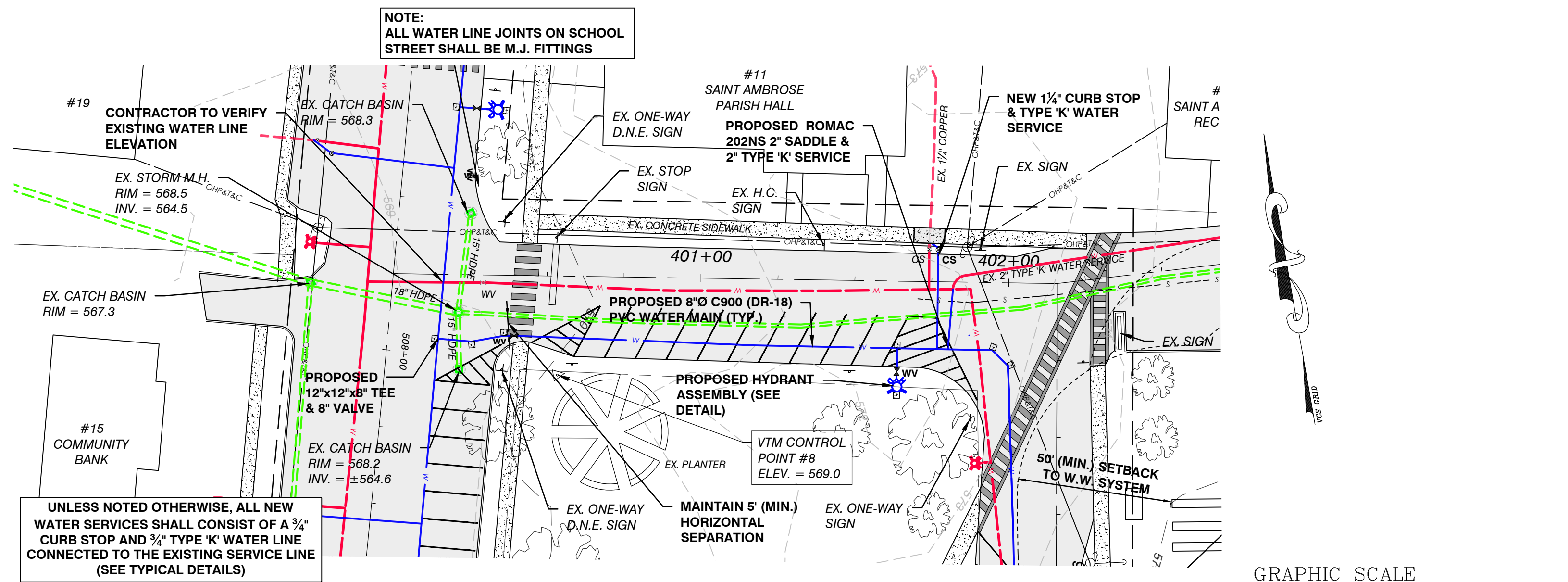
REV.	DATE	DESCRIPTION	BY



CHURCH STREET - PROFILE
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'



VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531		REV.	DATE	DESCRIPTION	BY
PRELIMINARY PLANS NOT FOR CONSTRUCTION					
CHURCH STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT				
	TOWN OF BRISTOL				
	1 SOUTH STREET, BRISTOL, VT 05443				
DESIGNED: SP	PILOT DATE: --				
DRAWN: PM	SCALE: AS SHOWN				
CHECKED: SP	DATE: --				
PROJECT NO. 22.1.3					
DRAWING NO. C2.5					

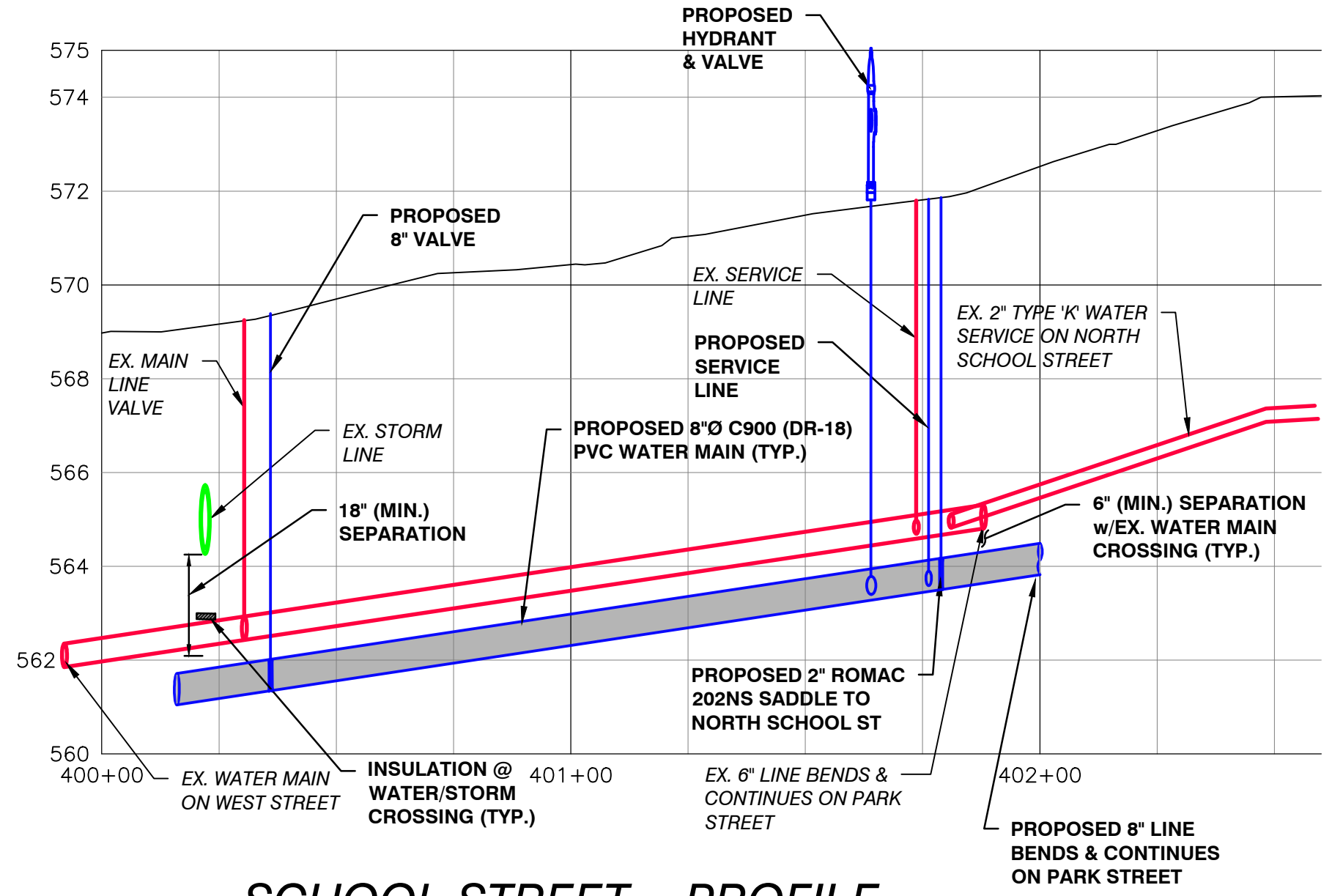


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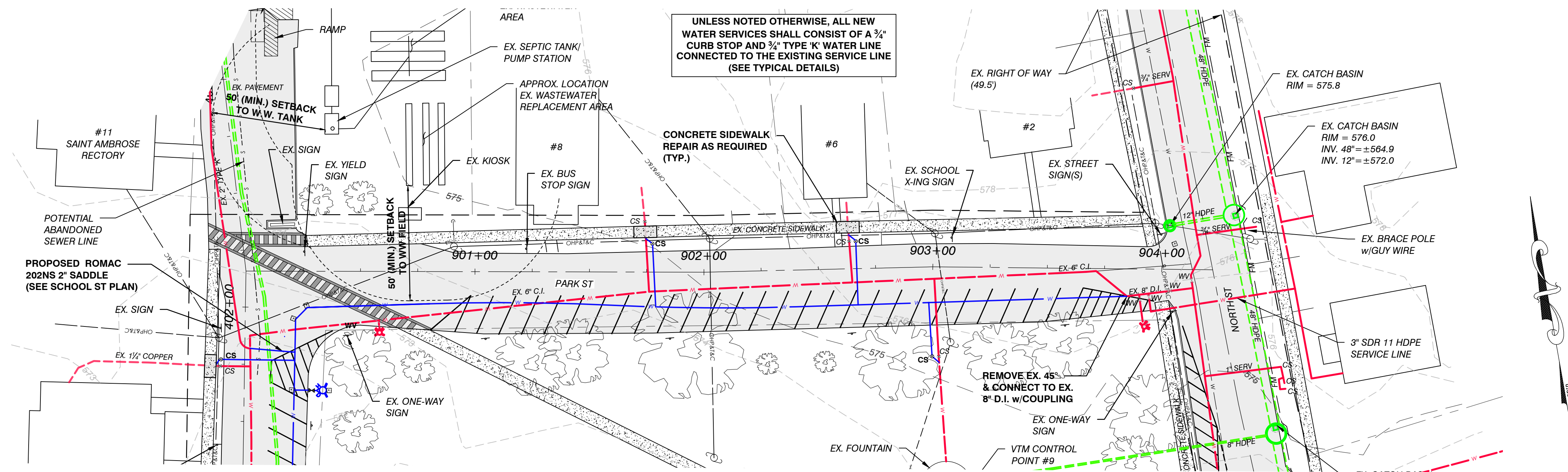
SCHOOL STREET - SITE PLAN
SCALE: 1" = ±30'

EXISTING WATER DEPTH SHOWN AS ±6.5 FEET FROM EXISTING GRADE BASED ON DEPTHS ENCOUNTERED DURING RECENT WATER LINE REPAIRS (PROVIDED BY TOWN OF BRISTOL)



LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531	DATE	BY
PRELIMINARY PLANS NOT FOR CONSTRUCTION	REV.	DESCRIPTION
SCHOOL STREET PLAN & PROFILE	DESIGNED SP	PROJECT BRISTOL WEST WATER REPLACEMENT PROJECT
	DRAWN PM	TOWN OF BRISTOL CLIENT
	CHECKED SP	1 SOUTH STREET, BRISTOL VT 05443
		PROJECT NO. 22.1.3
		DRAWING NO. C2.6



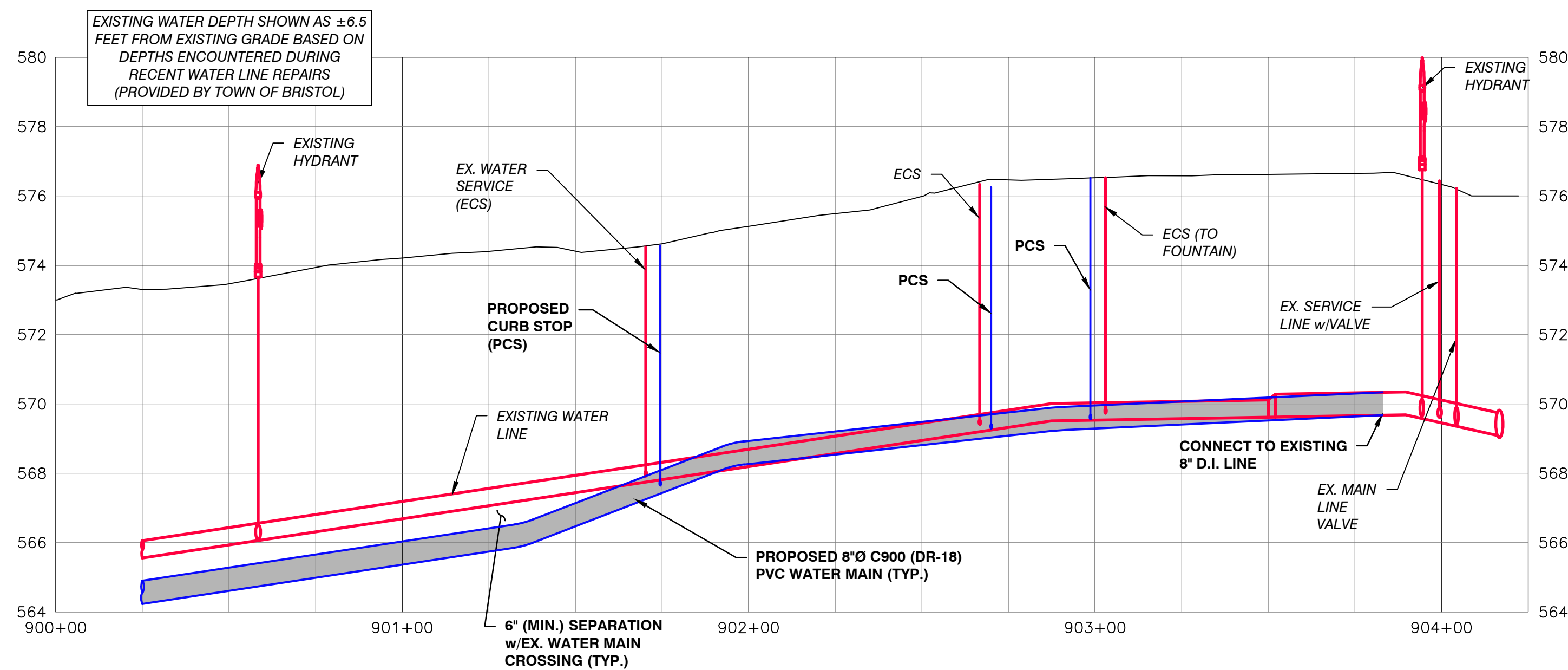
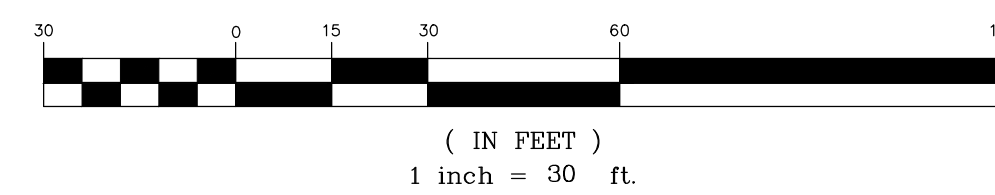
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PARK STREET - SITE PLAN

SCALE: 1" = 30'

GRAPHIC SCALE



PARK STREET - PROFILE

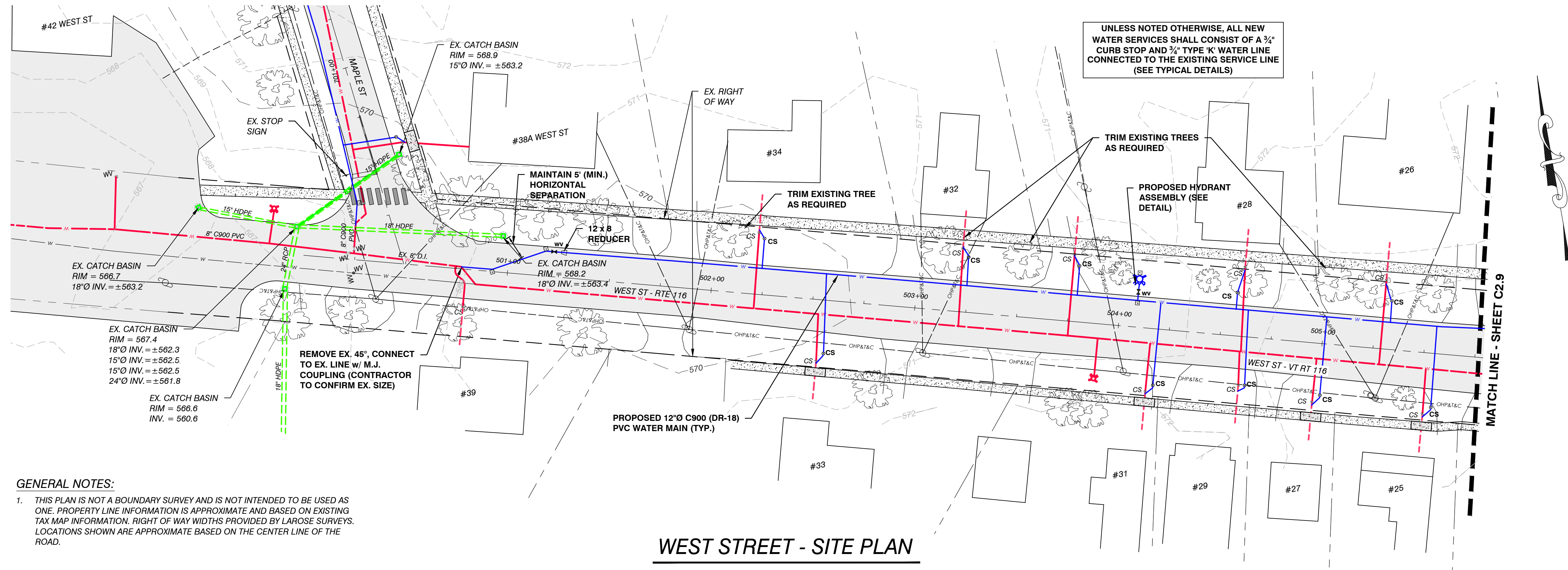
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

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HINESBURG, VT 05461
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PRELIMINARY PLANS
NOT FOR CONSTRUCTION

DRAWING TITLE		PROJECT		CLIENT	
PARK STREET PLAN & PROFILE		BRISTOL WEST WATER REPLACEMENT PROJECT		TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443	
DESIGNED	SP	PLLOT DATE		SCALE	AS SHOWN
DRAWN	PM	DATE		PROJECT NO.	22.1.3
CHECKED	SP			DRAWING NO.	C2.7
		REV.	DATE	DESCRIPTION	BY

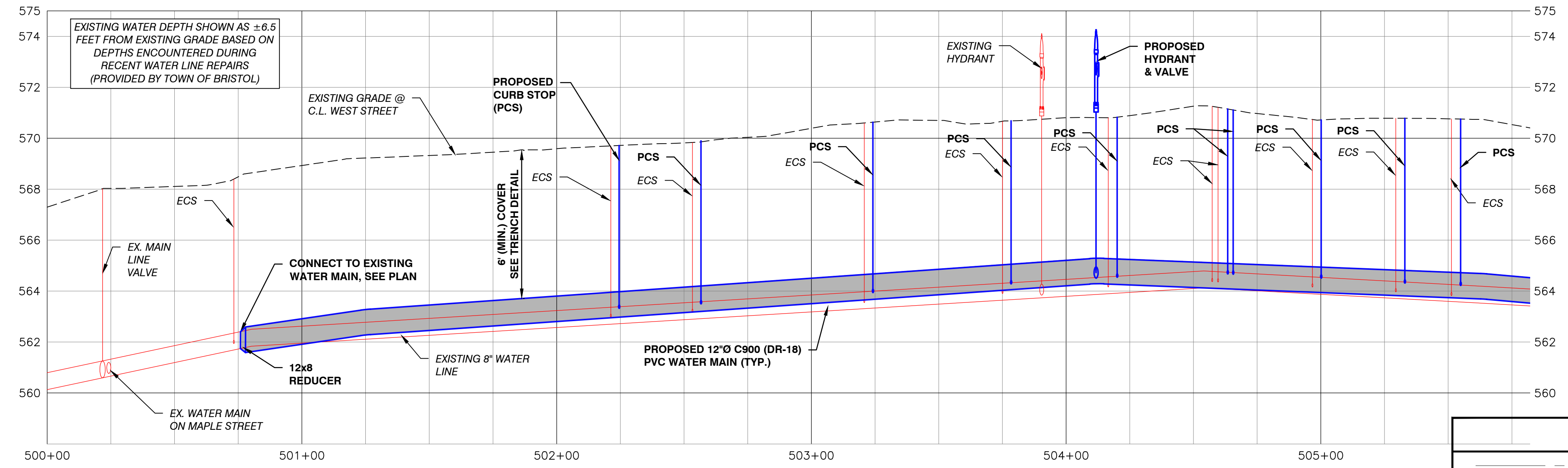
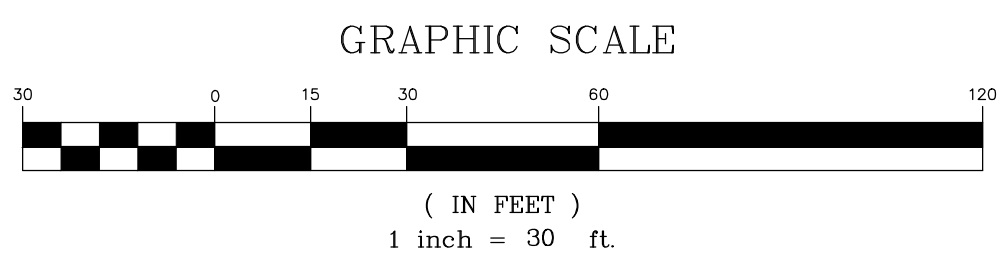


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WEST STREET - SITE PLAN

SCALE: 1" = ±30'



WEST STREET - PROFILE

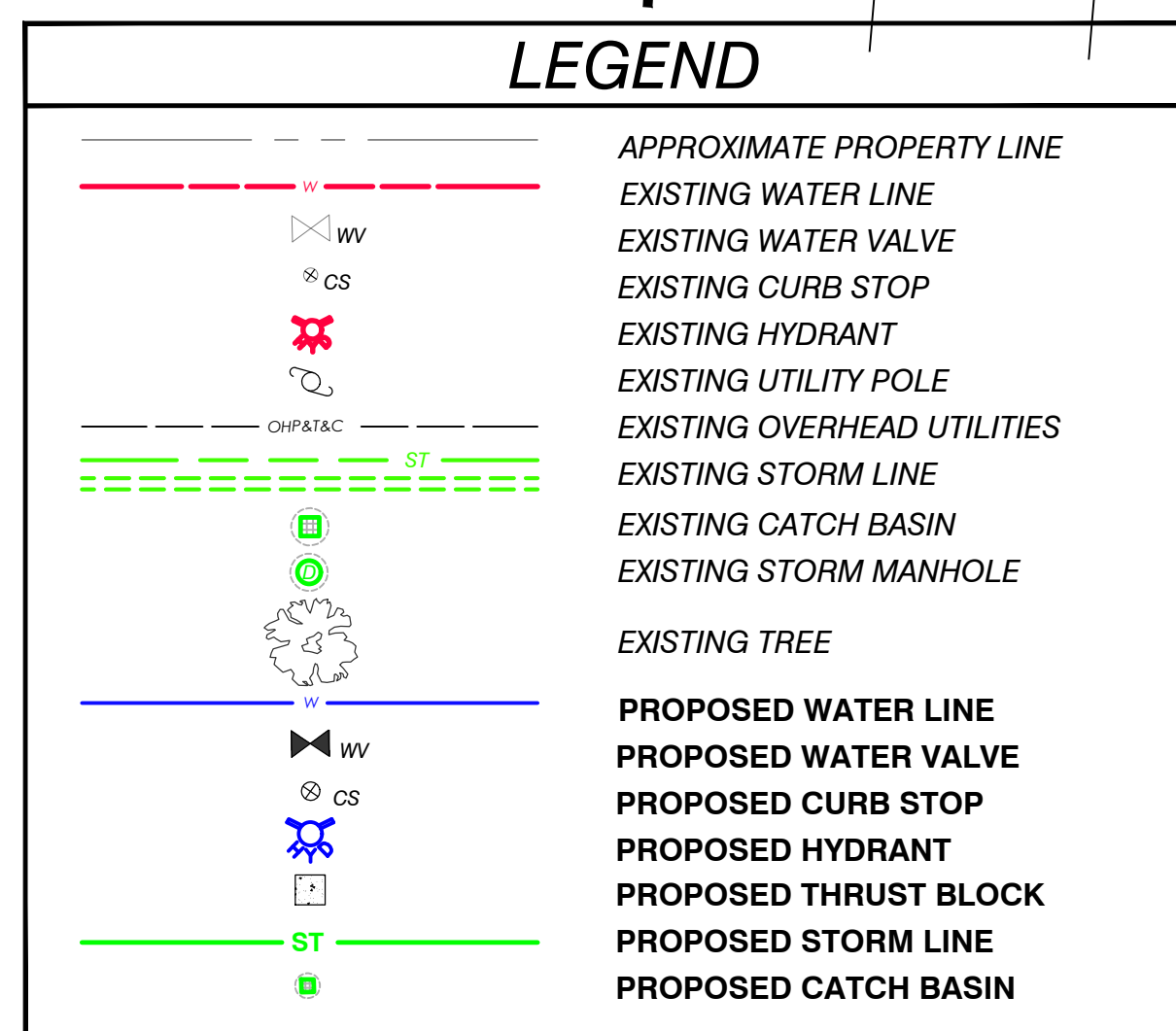
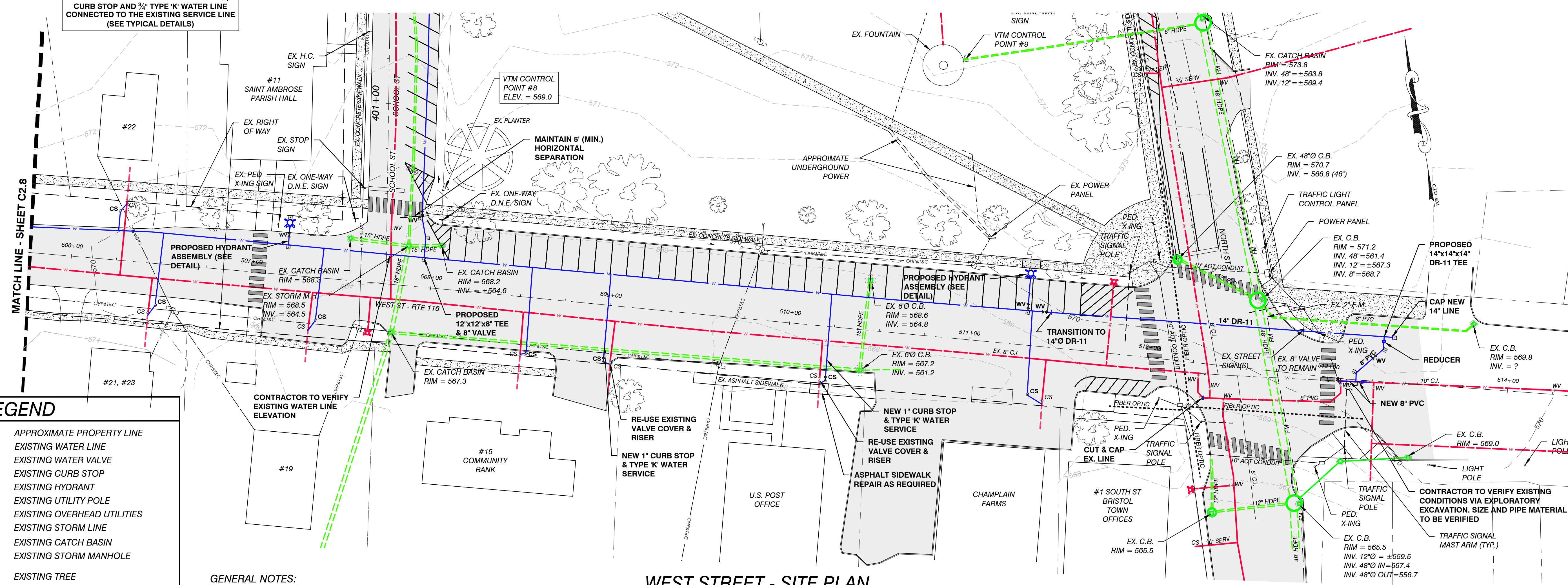
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531			
PRELIMINARY PLANS NOT FOR CONSTRUCTION			
WEST STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443		
DESIGNED: SP DRAWN: PM CHECKED: SP	PLOT DATE: -- SCALE: AS SHOWN DATE: -- PROJECT NO.: 22.1.3 DRAWING NO.: C2.8		
REV.	DATE	DESCRIPTION	BY

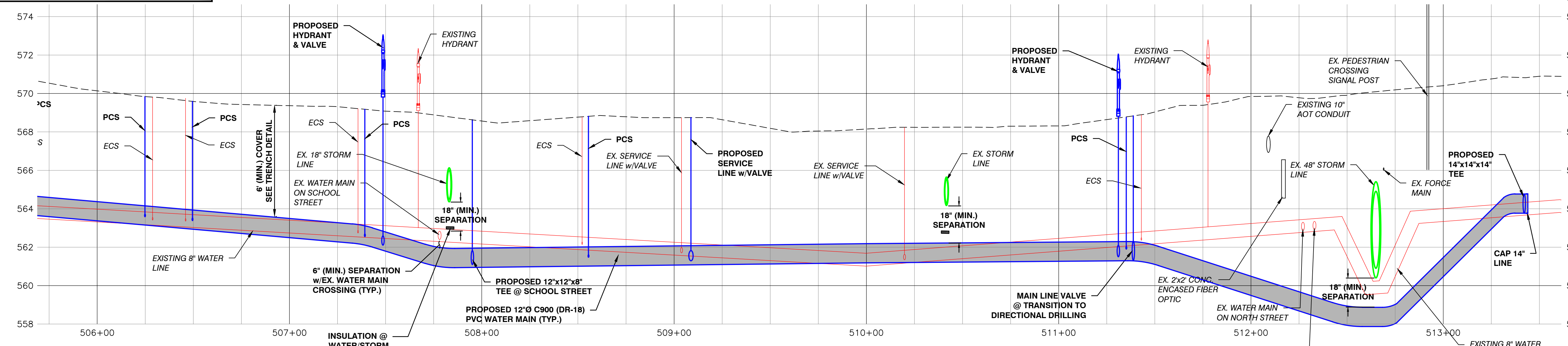
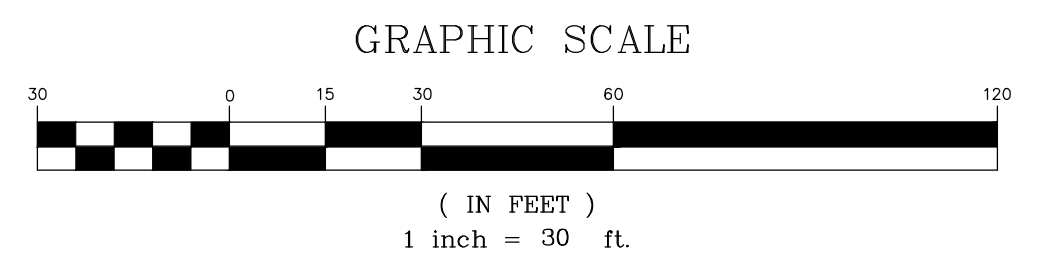
UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A 3/4" CURB STOP AND 3/4" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)



GENERAL NOTES:
 1. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. RIGHT OF WAY WIDTHS PROVIDED BY LAROSE SURVEYS. LOCATIONS SHOWN ARE APPROXIMATE BASED ON THE CENTER LINE OF THE ROAD.

WEST STREET - SITE PLAN

SCALE: 1" = ±30'



WEST STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
 VERTICAL - 1" = 3'

VTM ENGINEERING, PLC
 2941 SHELburnE FALLS ROAD
 HINESBURG, VT 05461
 (802) 233-7531

PRELIMINARY PLANS
 NOT FOR CONSTRUCTION

DRAWING TITLE
 WEST STREET
 PLAN & PROFILE

PROJECT
 BRISTOL WEST WATER
 REPLACEMENT PROJECT

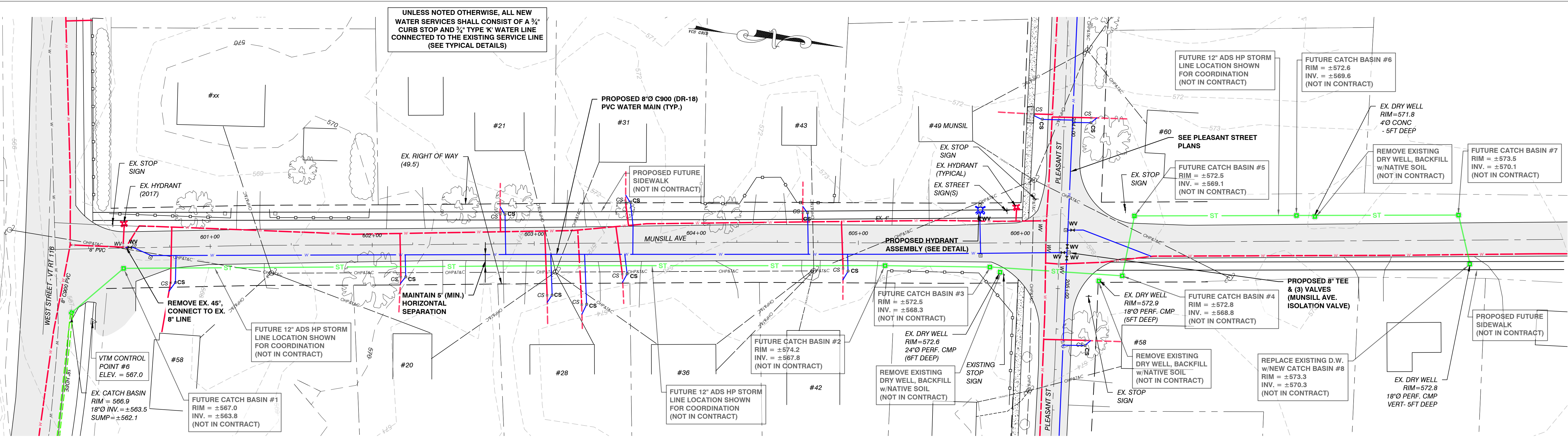
CLIENT
 TOWN OF BRISTOL
 1 SOUTH STREET, BRISTOL VT 05443

DESIGNED	SP	PLLOT DATE	-
DRAWN	PM	SCALE	AS SHOWN
CHECKED	SP	DATE	-

PROJECT NO.
 22.1.3

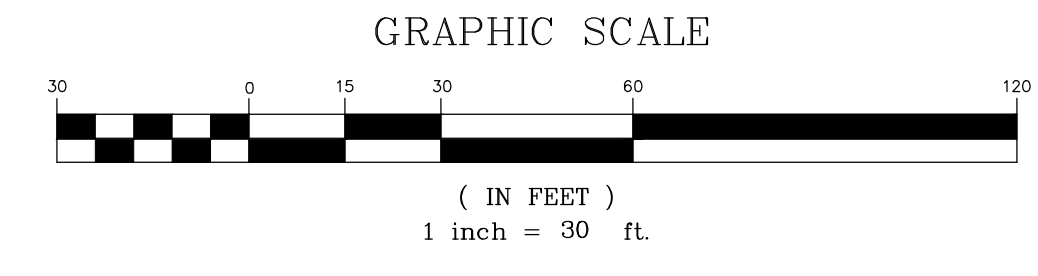
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C2.9

REV.	DATE	DESCRIPTION	BY

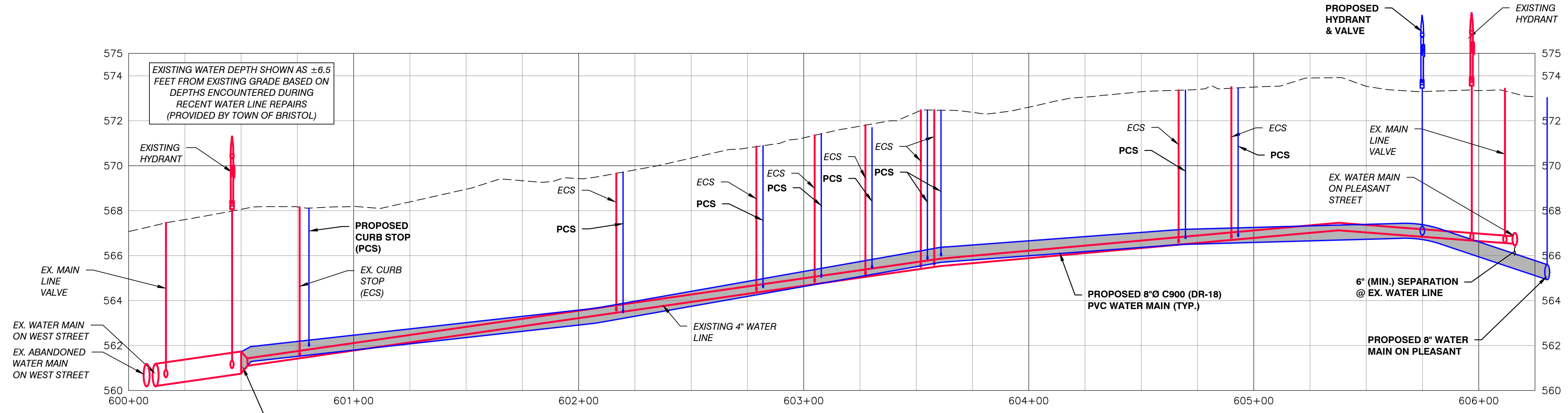


MUNSILL AVE - SITE PLAN

SCALE: 1" = ±30'



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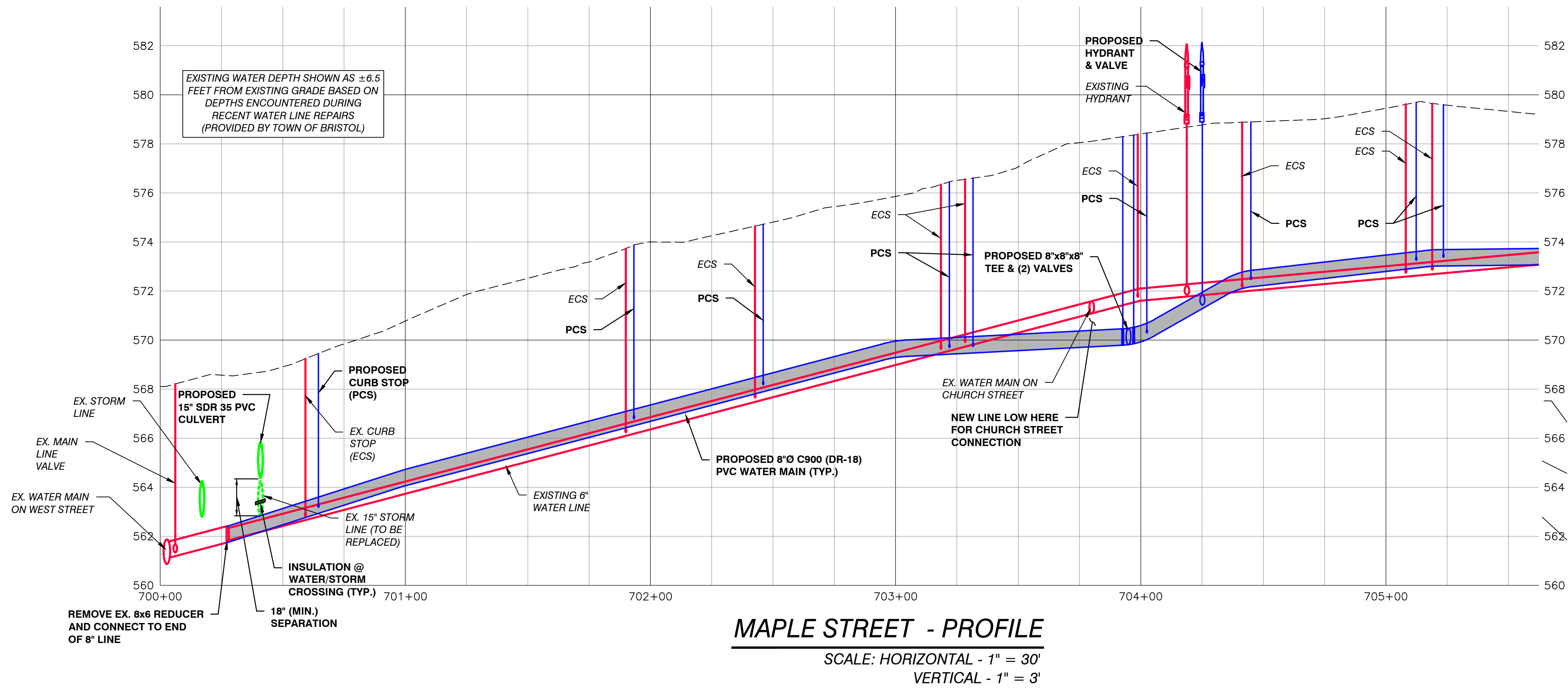
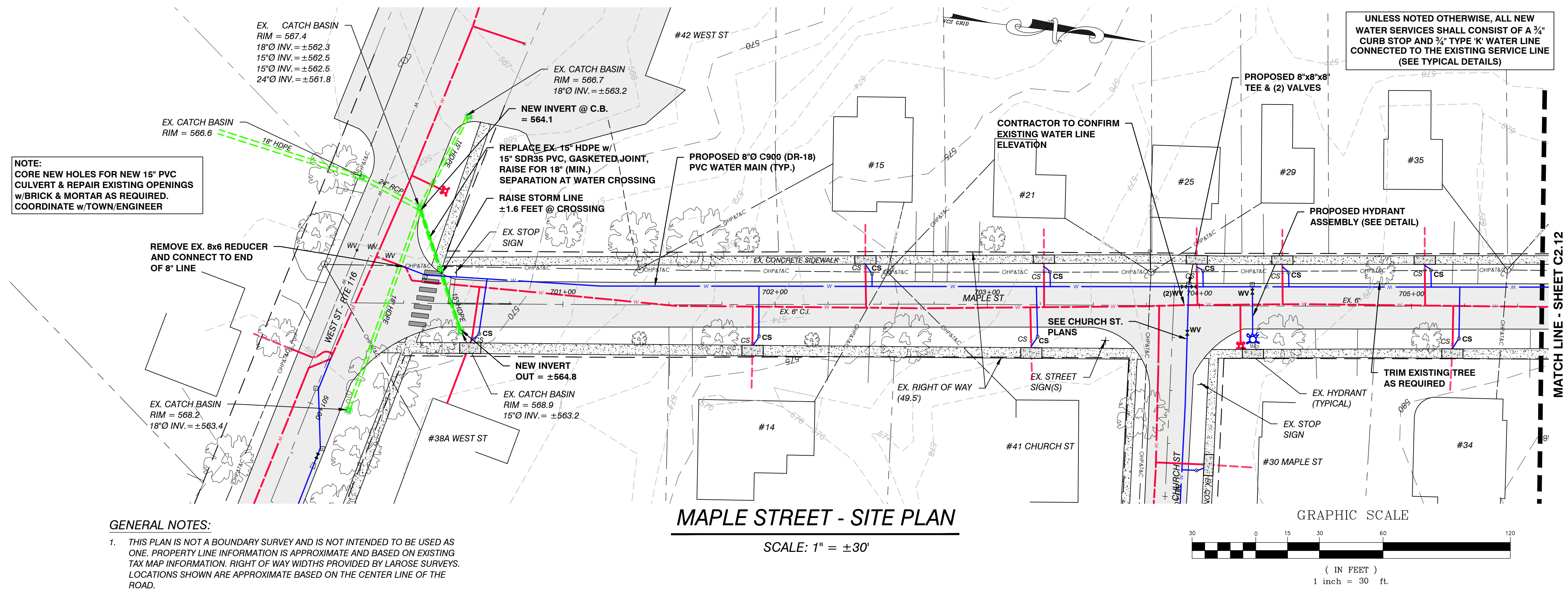


MUNSILL AVE - PROFILE

SCALE: HORIZONTAL - 1" = 30'
 VERTICAL - 1" = 3'

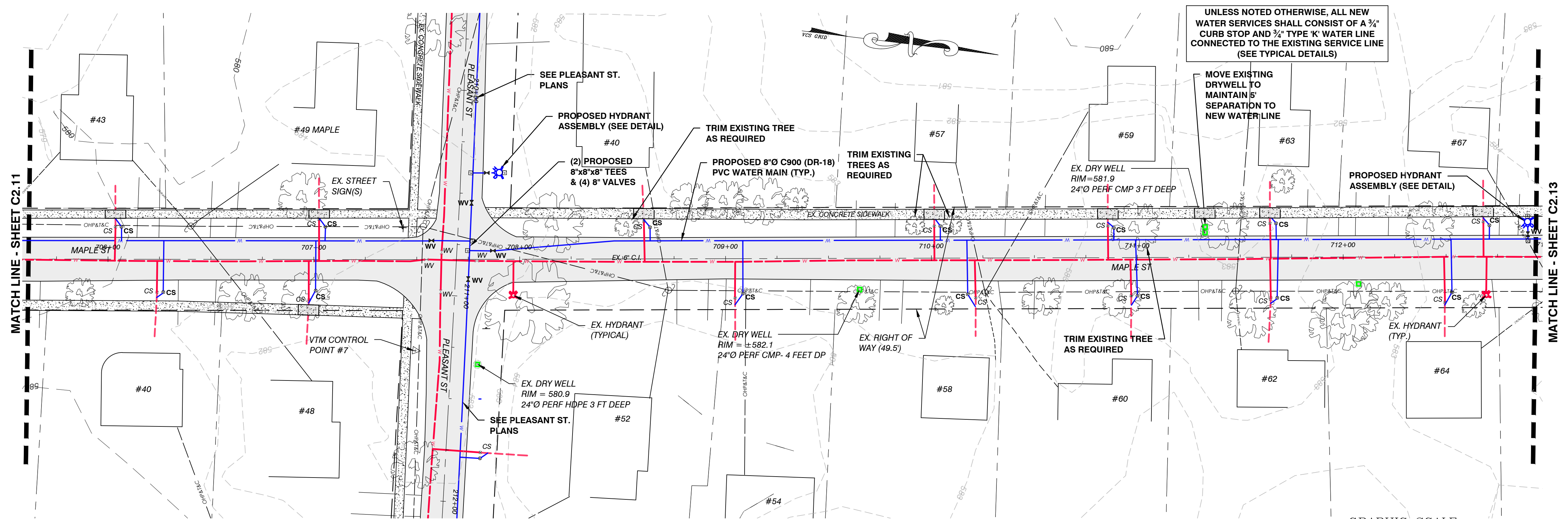
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	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELBURNE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531	
PRELIMINARY PLANS NOT FOR CONSTRUCTION	
MUNSILL AVE PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443
DESIGNED: SP DRAWN: PM CHECKED: SP	PLOT DATE: 1 SCALE: AS SHOWN DATE: -- PROJECT NO.: 22.1.3 DRAWING NO.: C2.10
REV. DATE DESCRIPTION	BY



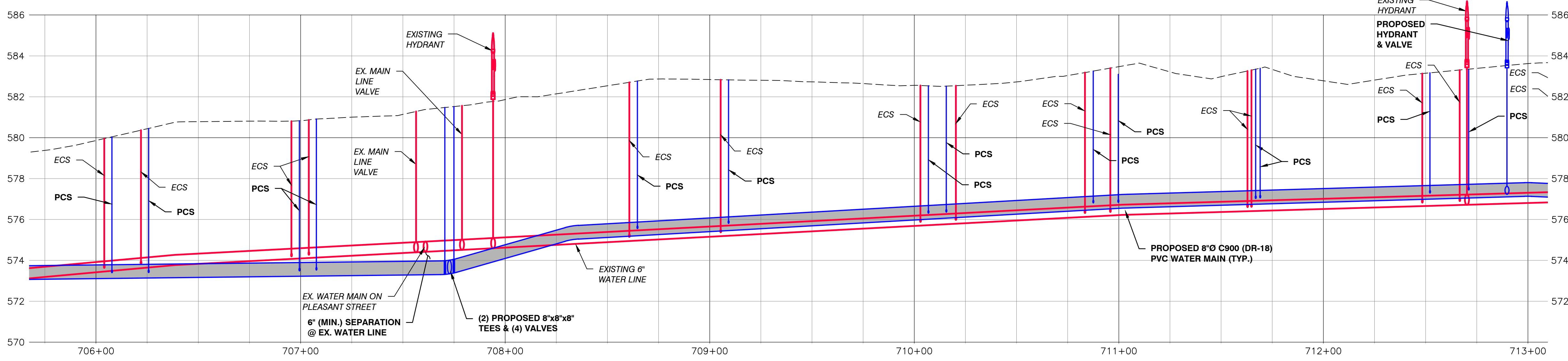
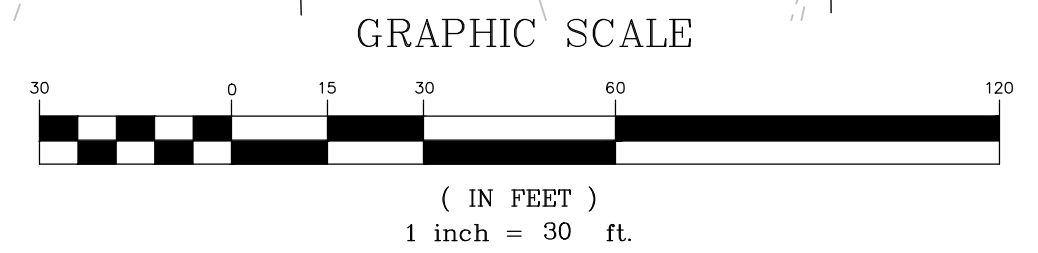
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	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
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	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THRUST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531		REV.	DATE	DESCRIPTION	BY
PRELIMINARY PLANS NOT FOR CONSTRUCTION					
MAPLE STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT				
	TOWN OF BRISTOL				
	1 SOUTH STREET, BRISTOL VT 05443				
DESIGNED	SP	PLLOT DATE			
DRAWN	PM	SCALE	AS SHOWN		
CHECKED	SP	DATE			
PROJECT NO. 22.1.3					
DRAWING NO. C2.11					



GENERAL NOTES:
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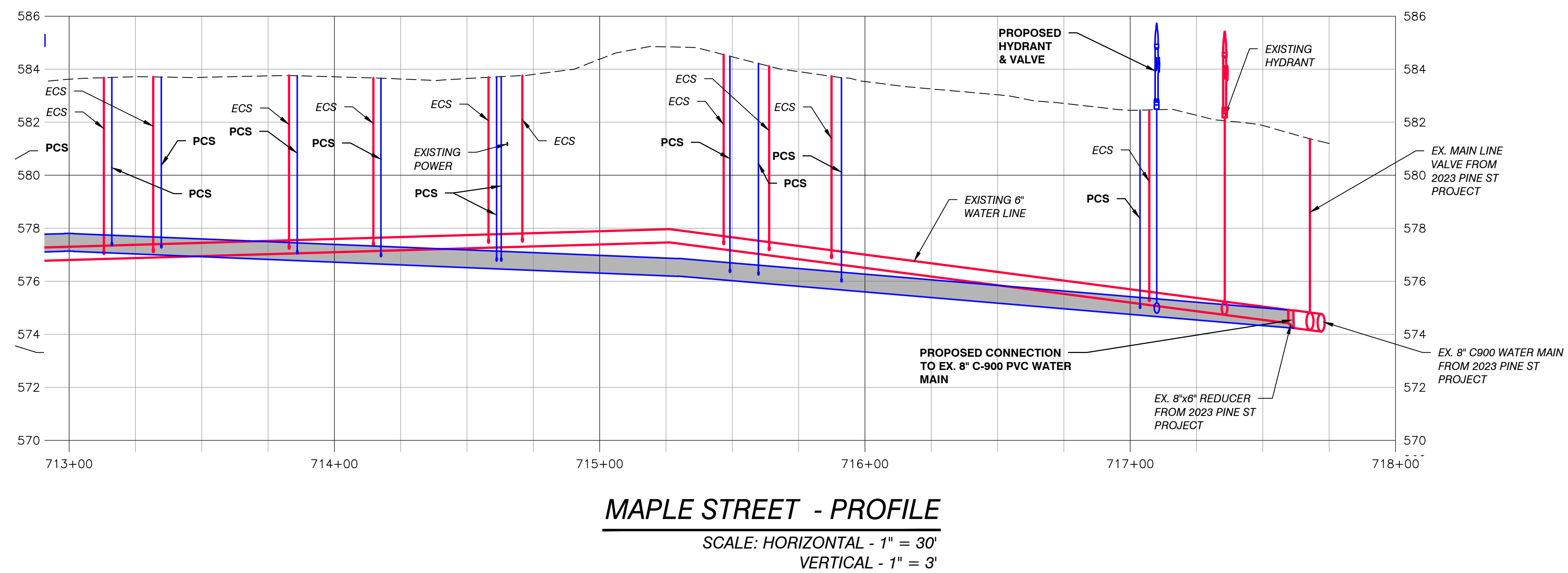
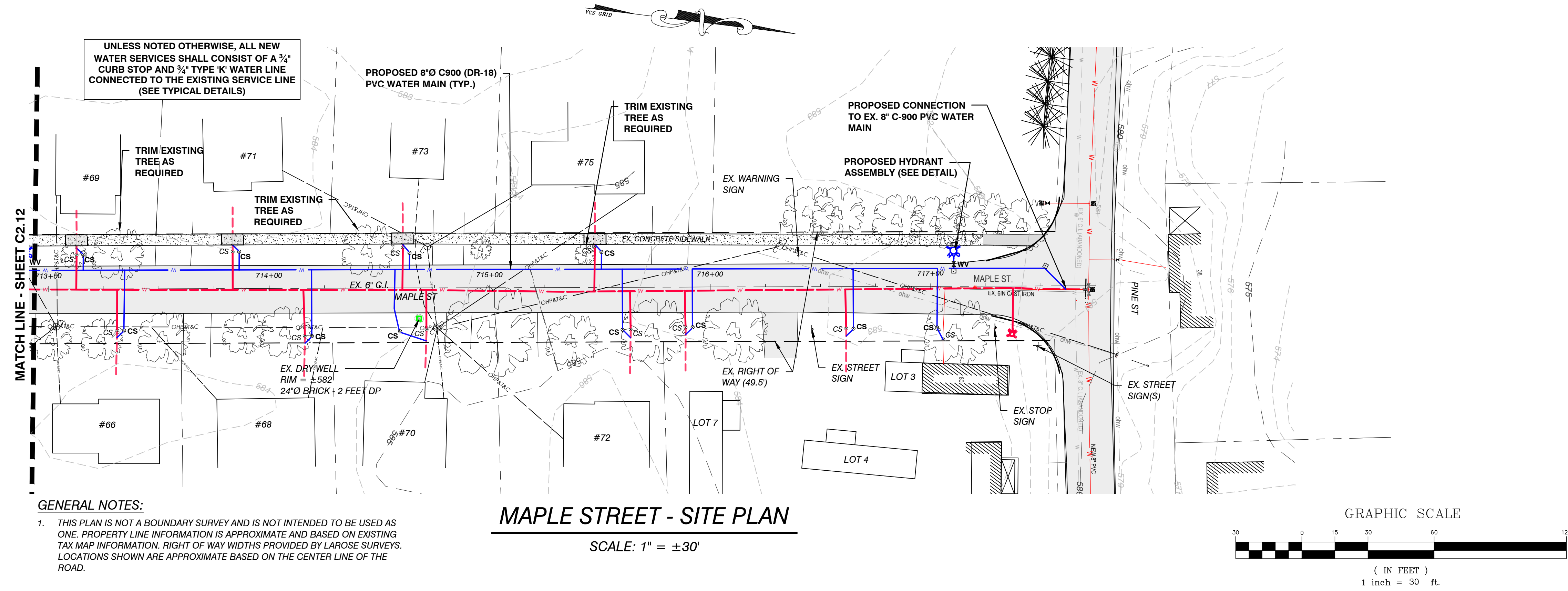
MAPLE STREET - SITE PLAN
 SCALE: 1" = ±30'



MAPLE STREET - PROFILE
 SCALE: HORIZONTAL - 1" = 30'
 VERTICAL - 1" = 3'

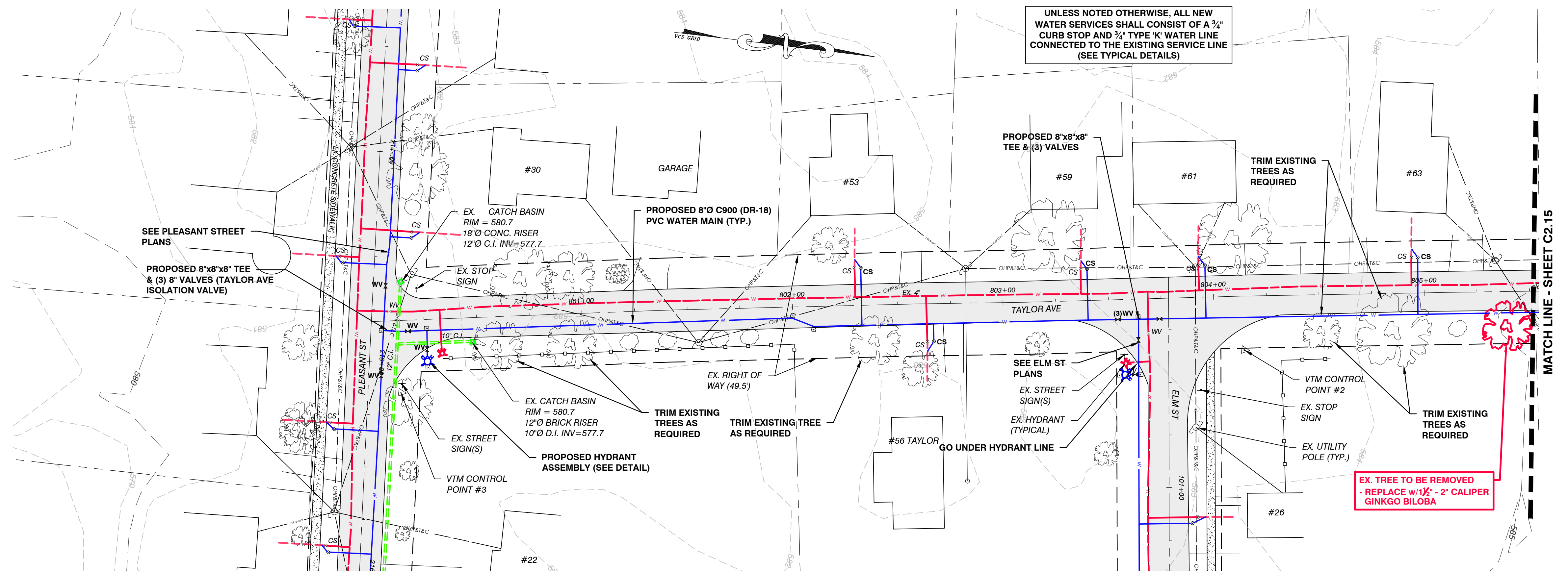
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	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
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	PROPOSED WATER LINE
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VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531	
PRELIMINARY PLANS NOT FOR CONSTRUCTION	
MAPLE STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443
DESIGNED: SP DRAWN: PM CHECKED: SP	PLOT DATE: 1 SCALE: AS SHOWN DATE: -- PROJECT NO. 22.1.3 DRAWING NO. C2.12
REV. DATE DESCRIPTION BY	



LEGEND	
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	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
	EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITIES
	EXISTING STORM LINE
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	EXISTING TREE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED THURST BLOCK
	PROPOSED STORM LINE
	PROPOSED CATCH BASIN

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531			
PRELIMINARY PLANS NOT FOR CONSTRUCTION			
MAPLE STREET PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443		
DESIGNED: SP	PLLOT DATE: 1		
DRAWN: PM	SCALE: AS SHOWN		
CHECKED: SP	DATE: --		
PROJECT NO. 22.1.3			
DRAWING NO. C2.13			
REV.	DATE	DESCRIPTION	BY

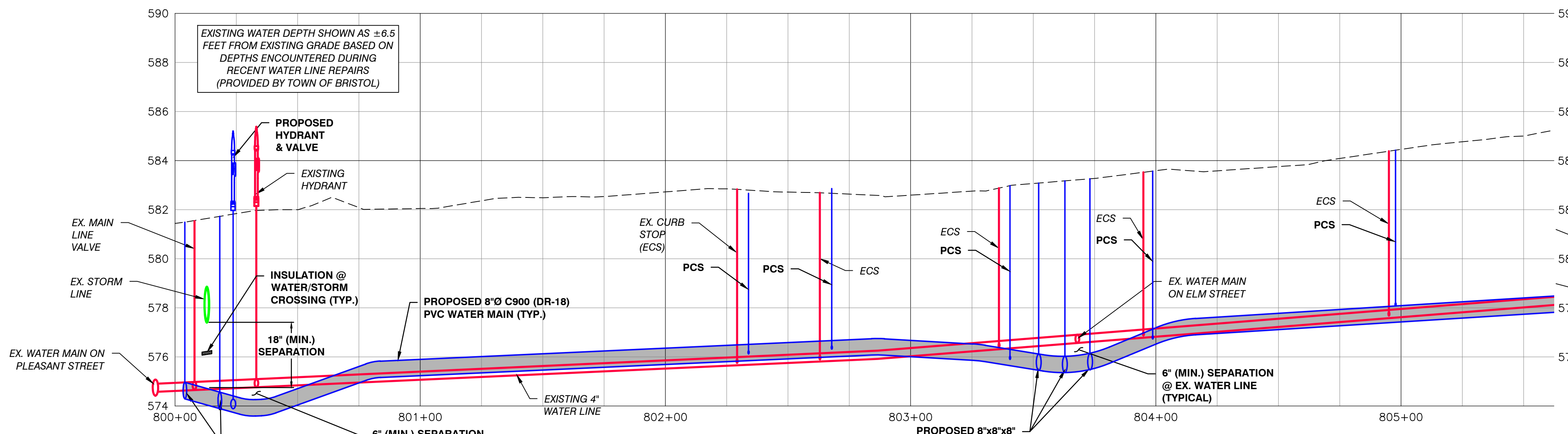
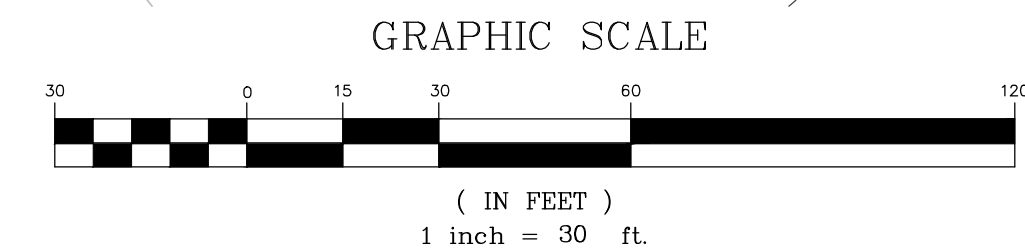


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TAYLOR AVE - SITE PLAN

SCALE: 1" = ±30'

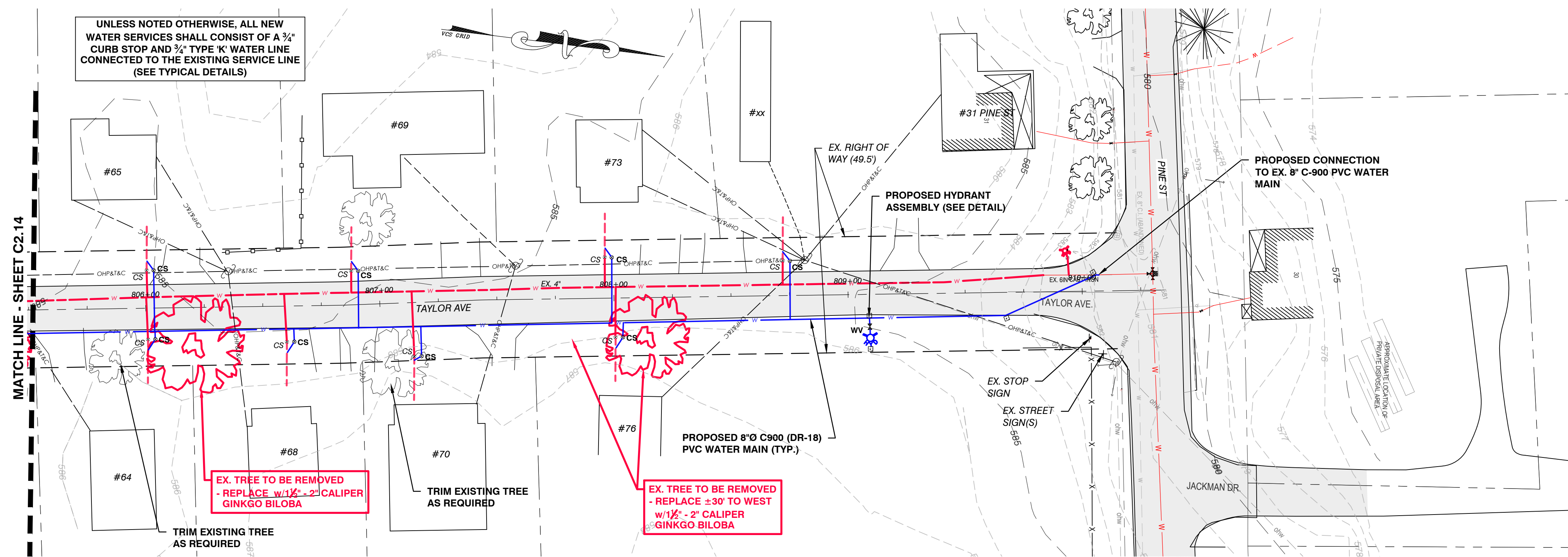


TAYLOR AVE - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND	
	APPROXIMATE PROPERTY LINE
	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
	EXISTING HYDRANT
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	PROPOSED WATER LINE
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VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531	
PRELIMINARY PLANS NOT FOR CONSTRUCTION	
TAYLOR AVE PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443
DESIGNED: SP	PLLOT DATE: 1
DRAWN: PM	SCALE: AS SHOWN
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PROJECT NO. 22.1.3	DRAWING NO. C2.14
REV.	DATE
BY	DESCRIPTION

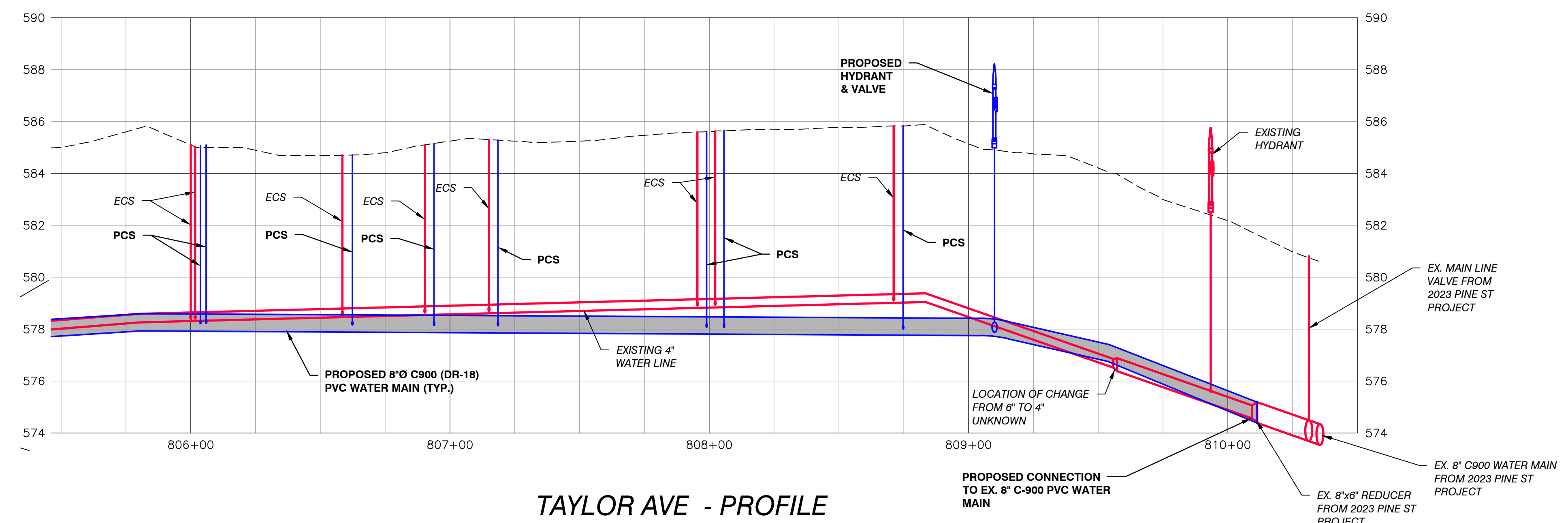
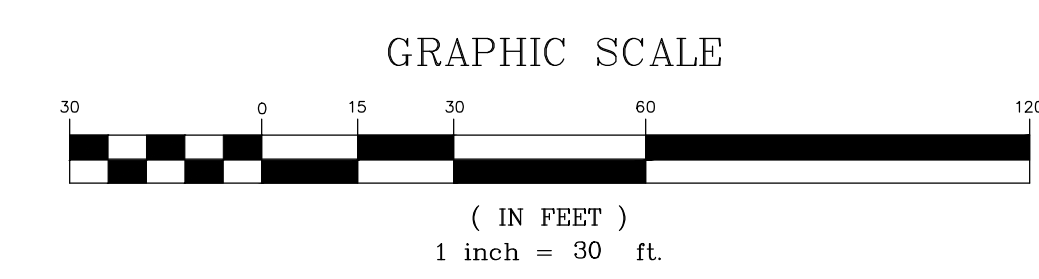


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TAYLOR AVE - SITE PLAN

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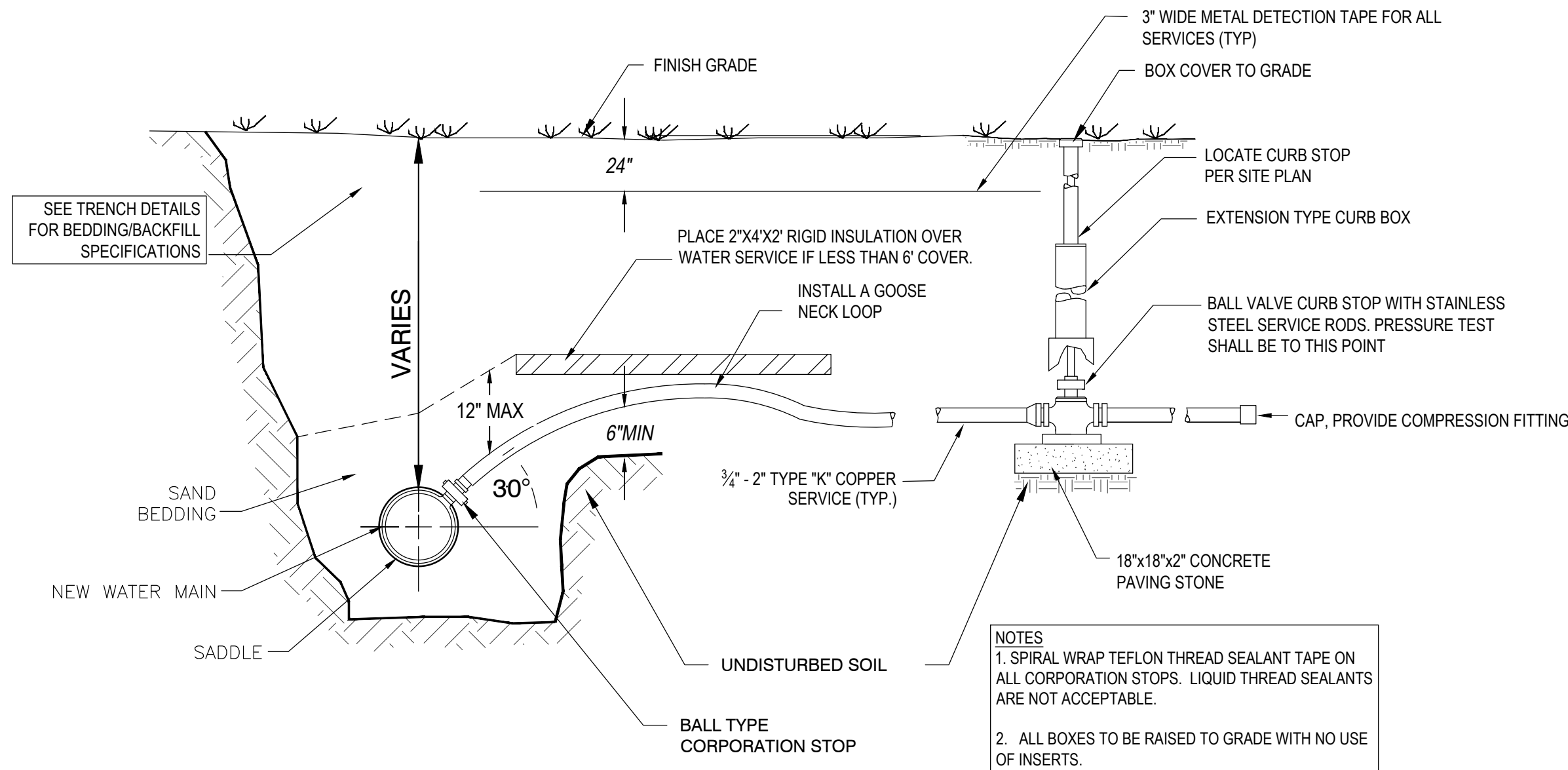


TAYLOR AVE - PROFILE

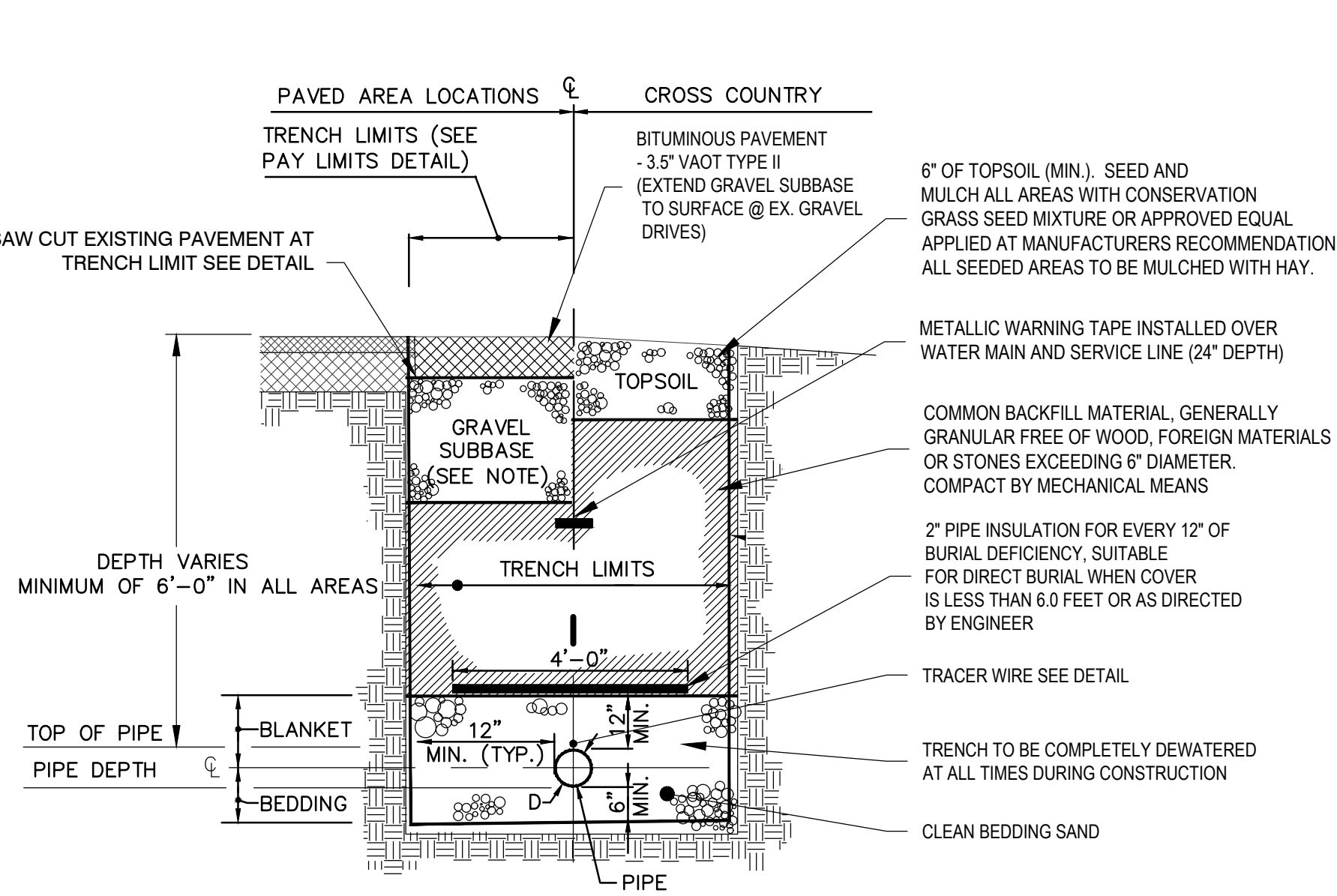
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND	
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	EXISTING WATER LINE
	EXISTING WATER VALVE
	EXISTING CURB STOP
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	PROPOSED THRUST BLOCK
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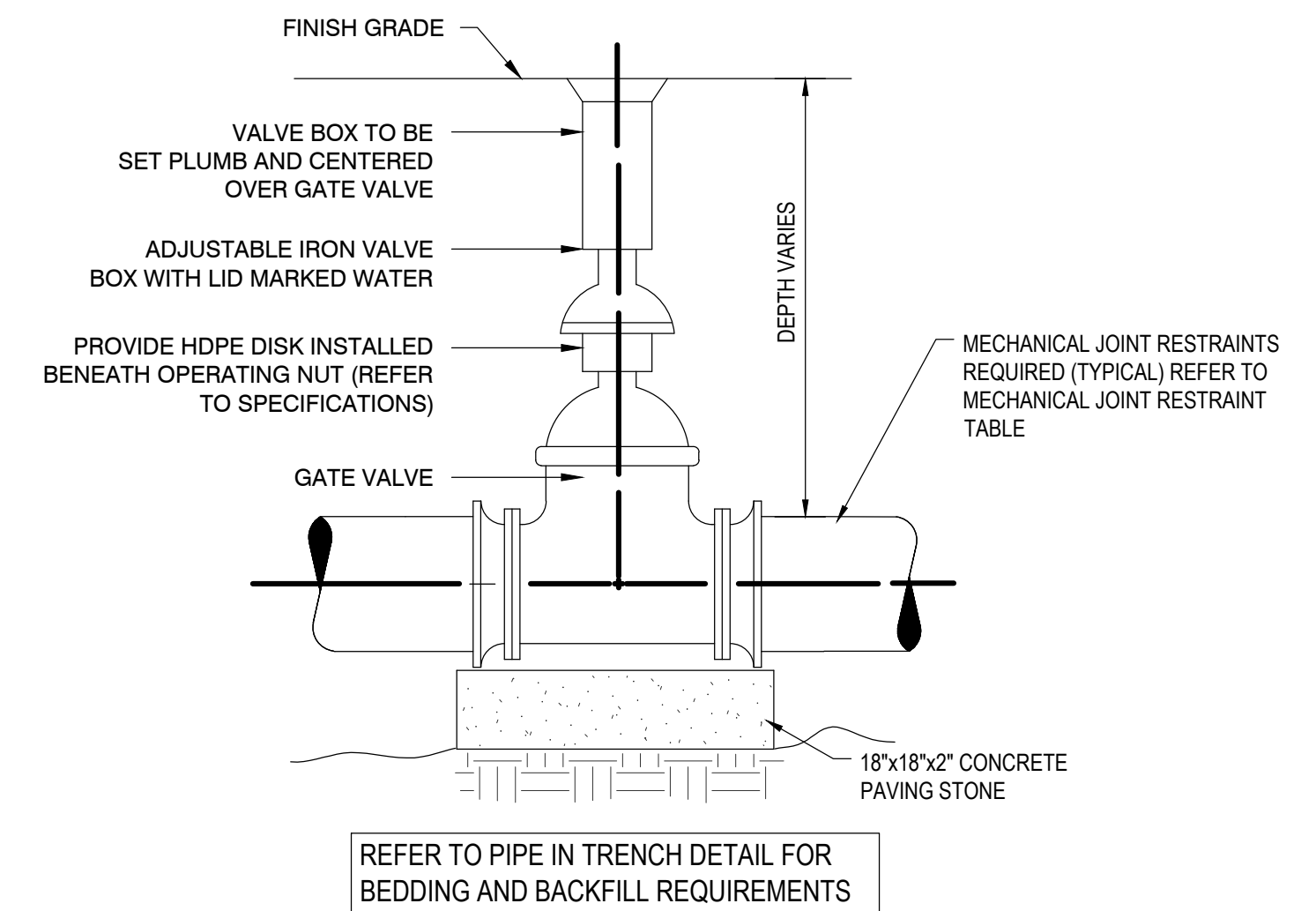
VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531			
PRELIMINARY PLANS NOT FOR CONSTRUCTION			
TAYLOR AVE PLAN & PROFILE	BRISTOL WEST WATER REPLACEMENT PROJECT TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443		
DESIGNED: SP DRAWN: PM CHECKED: SP	PLOT DATE: 1 SCALE: AS SHOWN DATE: -- PROJECT NO.: 22.1.3 DRAWING NO.: C2.15		
REV.	DATE	DESCRIPTION	BY



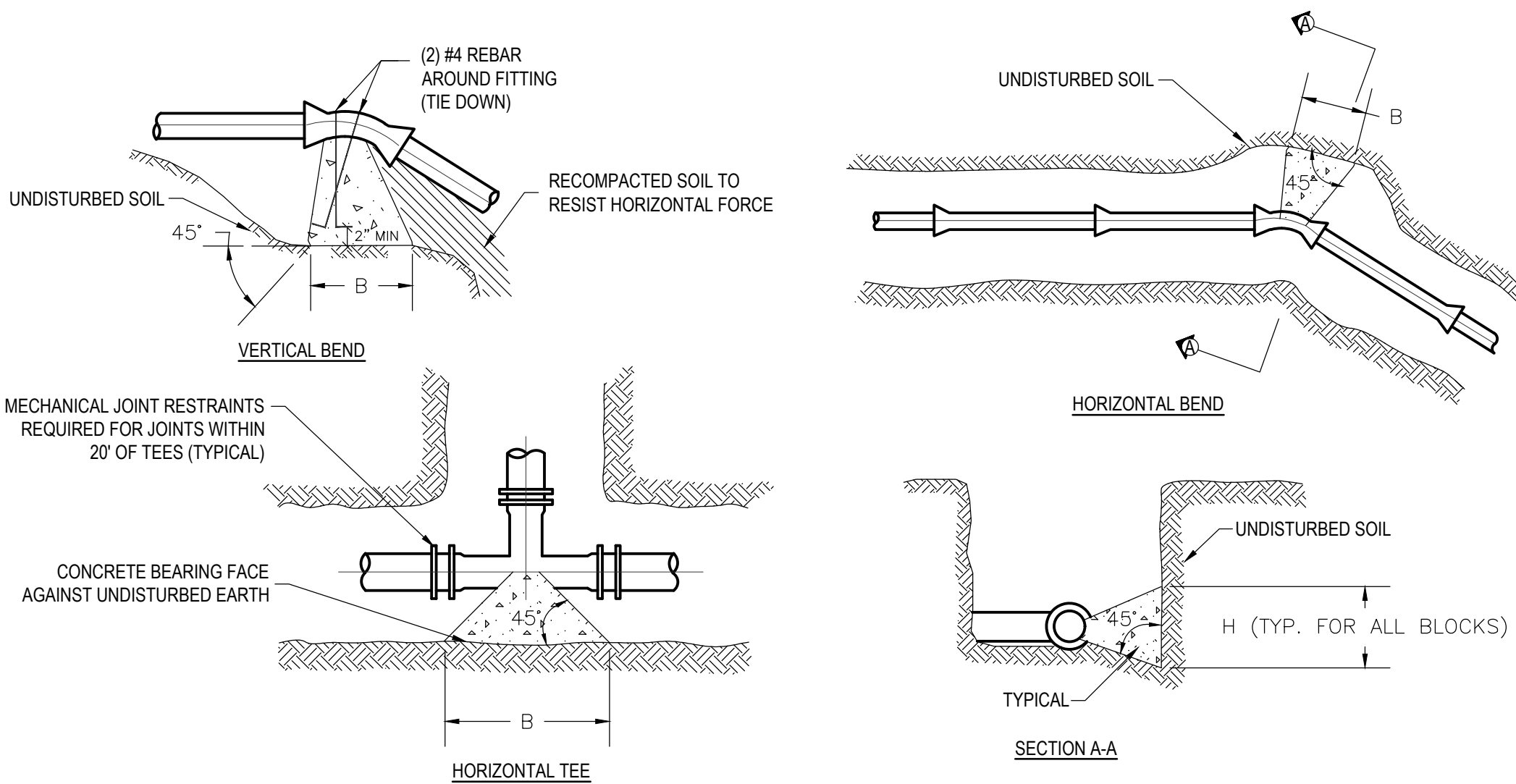
WATER SERVICE CONNECTION
NOT TO SCALE



WATER MAIN & SERVICE TRENCH
NOT TO SCALE



GATE VALVE DETAIL
NOT TO SCALE



TYPICAL BEARING THRUST BLOCK DETAILS AND SECTION
SCALE: NONE

- NOTES:**
1. ALL THRUST BLOCKS SHALL BE CLASS "B" CONCRETE. SEE SPEC. SECTION 03300
 2. CONCRETE SHALL BE PLACED SO AS NOT TO HAMPER THE FUTURE REMOVAL OF A FITTING.
 3. WRAP FITTINGS IN (2) LAYERS POLYETHYLENE PLASTIC SHEET PRIOR TO FORMING AND POURING THRUST BLOCK.

Bearing Face Material	Pipe Size (in)	Thrust Block - Height (H) and Width (B) of Required Bearing Face												Valves	Reducers			
		Horizontal 11.25° Bend ¹			Horizontal 22.5° Bend ¹			Horizontal 45° Bend ¹			Horizontal 90° Bend ¹					Tees and Dead Ends ^{1, 2}		
		A	H (ft)	B (ft)	A	H (ft)	B (ft)	A	H (ft)	B (ft)	A	H (ft)	B (ft)			A	H (ft)	B (ft)
Dense sandy gravel and gravel, cemented sands	6	0.50	1.0	1.0	0.97	1.0	1.0	1.80	1.00	1.8	2.54	1.00	2.5	2.54	1.00	2.5	See Mechanical Joint Restraint Table	See Mechanical Joint Restraint Table
	8	0.88	1.0	1.0	1.73	1.0	1.7	3.20	1.00	3.2	4.52	2.00	2.3	4.52	2.00	2.3		
12	1.98	1.0	2.0	3.89	1.0	3.9	7.19	1.50	4.8	10.17	2.00	5.1	10.17	2.00	5.1			
Dense course sands, sandy clays, very stiff silt	6	0.57	1.0	1.0	1.11	1.0	1.1	2.06	1.00	2.1	2.91	1.00	2.9	2.91	1.00	2.9		
	8	1.01	1.0	1.0	1.98	1.0	2.0	3.65	1.00	3.7	5.17	1.50	3.4	5.17	1.50	3.4		
12	2.27	1.0	2.3	4.45	1.5	3.0	8.22	2.00	4.1	11.63	2.00	5.8	11.63	2.00	5.8			
Medium dense sands, firm to stiff clays and silts	6	0.99	1.0	1.0	1.95	1.0	1.9	3.60	1.00	3.6	5.09	1.50	3.4	5.09	1.50	3.4		
	8	1.76	1.0	1.8	3.46	1.0	3.5	6.39	1.50	4.3	9.04	2.00	4.5	9.04	2.00	4.5		
12	3.97	1.5	2.6	7.79	1.5	5.2	14.39	2.50	5.8	20.35	3.00	6.8	20.35	3.00	6.8			
Loose sands, firm clays, alluvial fills	6	1.24	1.0	1.2	2.43	1.0	2.4	4.50	1.50	3.0	6.36	1.50	4.2	6.36	1.50	4.2		
	8	2.21	1.0	2.2	4.33	1.5	2.9	7.99	2.00	4.0	11.30	2.00	5.7	11.30	2.00	5.7		
12	4.96	1.5	3.3	9.73	2.0	4.9	17.98	3.00	6.0	25.43	3.00	8.5	25.43	3.00	8.5			
Uncompacted fill, peat, soft clays	6	Unsuitable bearing material for thrust block use. Use Mechanical restraints (see mechanical restraint table)																
	8																	
12																		

Minimum mechanically restrained pipe length when used in L of thrust block (8" C-900 PVC)

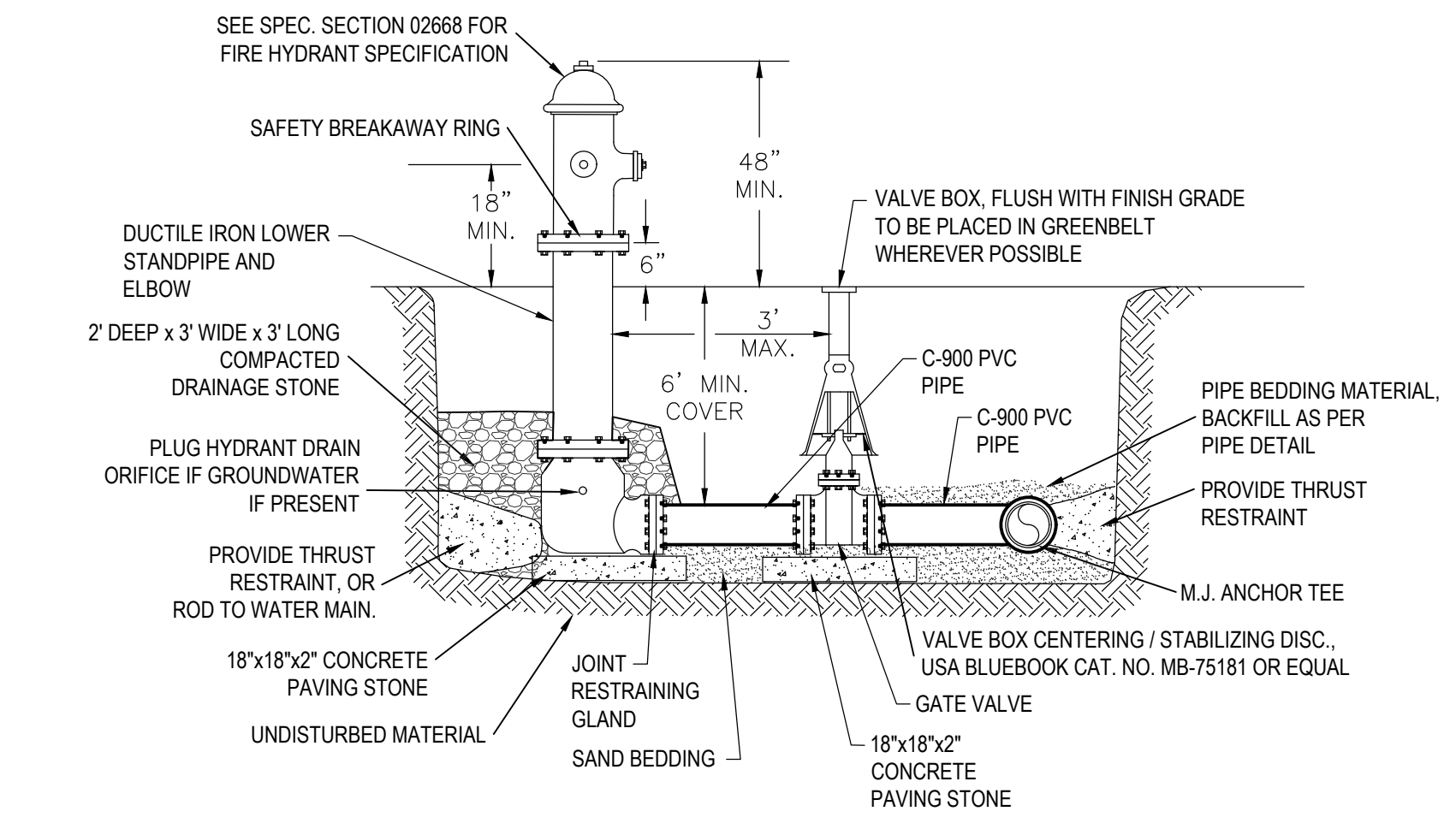
Restraint	Minimum Restraint Length		
	4' Bury Depth	5' Bury Depth	6' Bury Depth
11.25° Bend	3	2	2
22.5° Bend	5	4	3
45° Bend	9	7	6
90° Bend	21	17	15
Valve	63	51	40
Dead End	63	51	40
Tee	20	20	20
Reducer 8" to 6"	27	22	18
Reducer 8" to 4"	46	37	31

1. All pipe joints within 20' of mainline tees shall contain mechanical joint restraints regardless of thrust block usage.

Minimum mechanically restrained pipe length when used in L of thrust block (12" C-900 PVC)

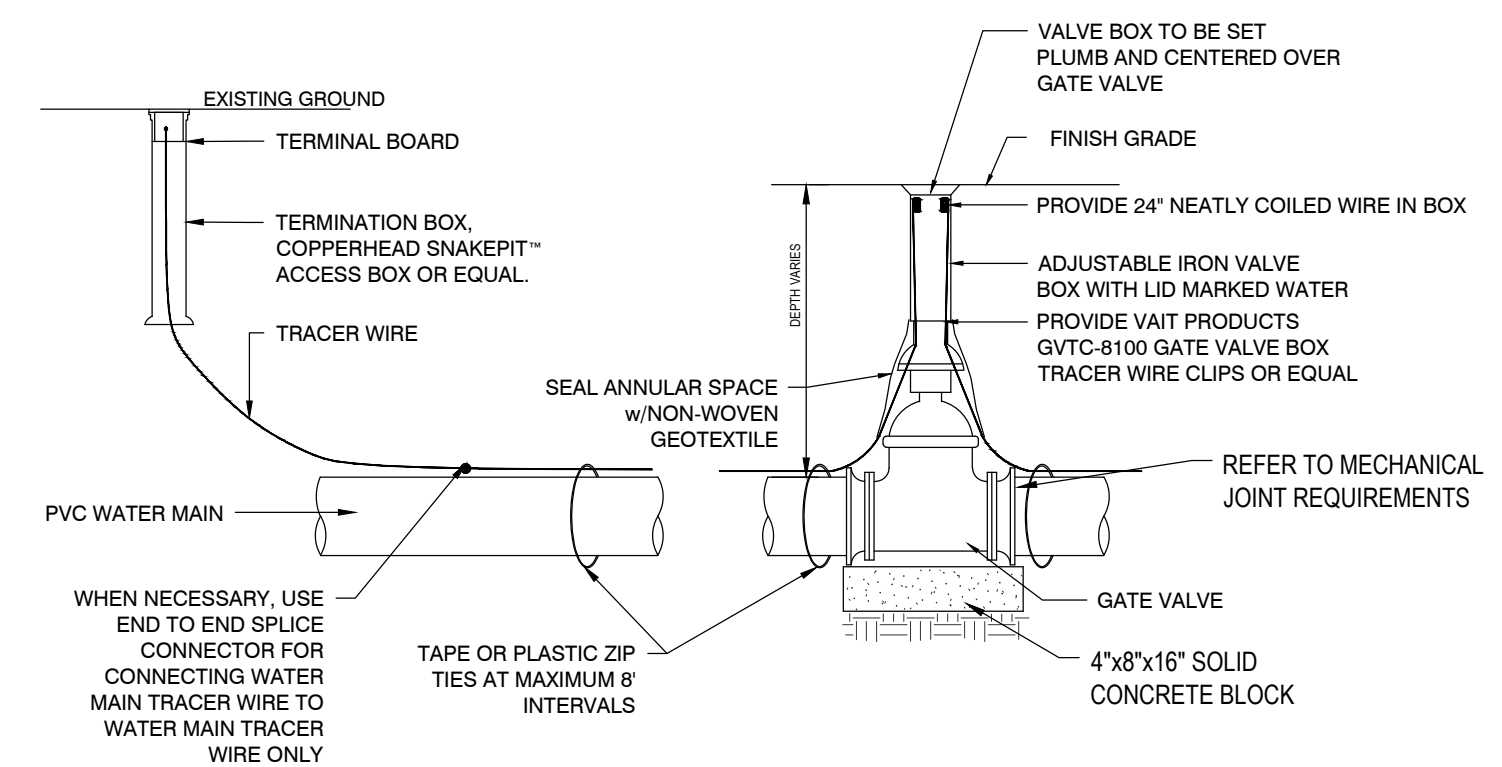
Restraint	Minimum Restraint Length		
	4' Bury Depth	5' Bury Depth	6' Bury Depth
11.25° Bend	4	3	2
22.5° Bend	6	5	4
45° Bend	13	10	9
90° Bend	30	24	21
Valve	90	73	60
Dead End	90	73	60
Tee	20	20	20
Reducer 12" to 8"	48	39	33
Reducer 12" to 6"	66	53	45

1. All pipe joints within 20' of mainline tees shall contain mechanical joint restraints regardless of thrust block usage.



TYPICAL HYDRANT ASSEMBLY DETAIL
SCALE: NONE

- NOTES:**
- 1) HYDRANT SHALL BE FULLY EXPOSED, OPEN LEFT, AND HAVE (2) 2 1/2" NTS HOSE CONNECTIONS AND (1) 4" PLUMPER CONNECTION. SEE SPECIFICATIONS FOR ADDITIONAL INFO.
 - 2) ALL BRANCH PIPING AND FITTINGS SHALL BE MECHANICAL JOINT.
 - 3) HYDRANTS SHALL HAVE THE DRAIN PLUGGED IF GROUNDWATER IS FOUND TO BE PRESENT AT PROPOSED HYDRANT LOCATION.



TRACER WIRE FOR WATER MAINS DETAIL
SCALE: NONE

- NOTES:**
1. FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. 3" WIDE METALLIC WARNING TAPE INSTALLED OVER WATER MAIN (24" DEPTH) AND SERVICE LINE (12" DEPTH) PER TRENCH DETAIL.
 2. FOR PVC WATER MAIN PIPE, TRACER WIRE IS TO RUN ALONG TOP OF AND BE SECURED TO WATER MAIN PIPE WITH PLASTIC STRAPS OR TAPE PLACED AT MAXIMUM 8 FEET INTERVALS.
 3. AT WATER VALVES TRACER WIRE IS TO RUN ALONG THE SIDE OF THE VALVE OR WHERE SPECIFIED RUN UP BOTH SIDES OF THE VALVE BOX WITH VAIT PRODUCTS GVTC-8100 GATE VALVE BOX TRACER WIRE CLIPS OR APPROVED EQUAL.
 4. TRACER WIRE IS TO BE CONNECTED TO TERMINATION BOX INSTALLED ADJACENT TO END POINTS OF NEW PVC WATER MAIN WHERE NECESSARY.

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(802) 233-7531

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

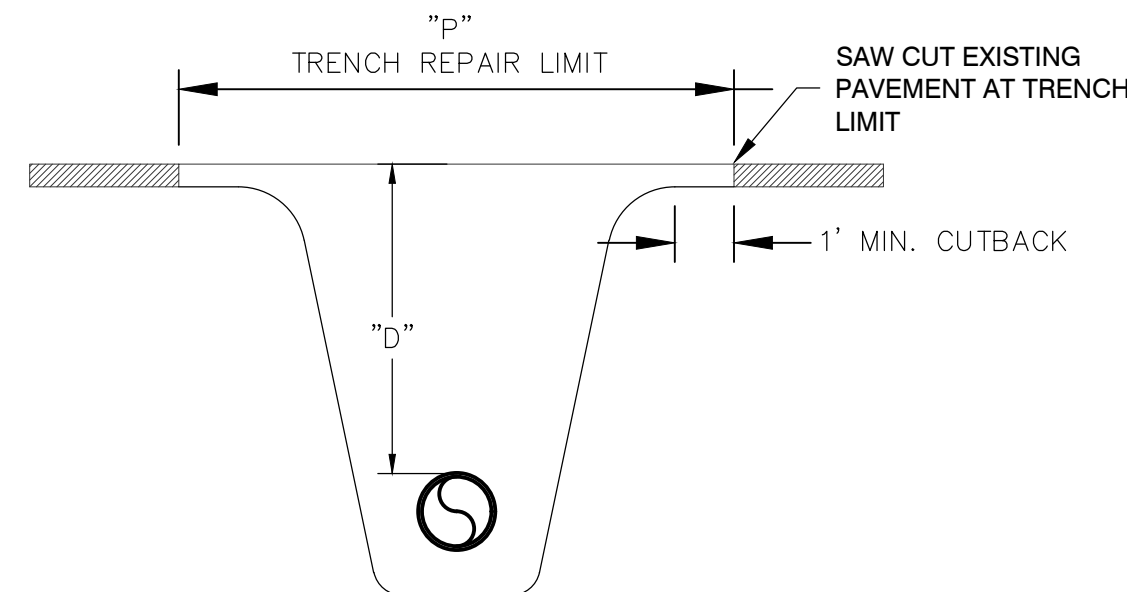
DETAILS
BRISTOL WEST WATER
REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED	SP	PLLOT DATE	
DRAWN	PM	SCALE	AS SHOWN
CHECKED	SP	DATE	

PROJECT NO.
22.1.3

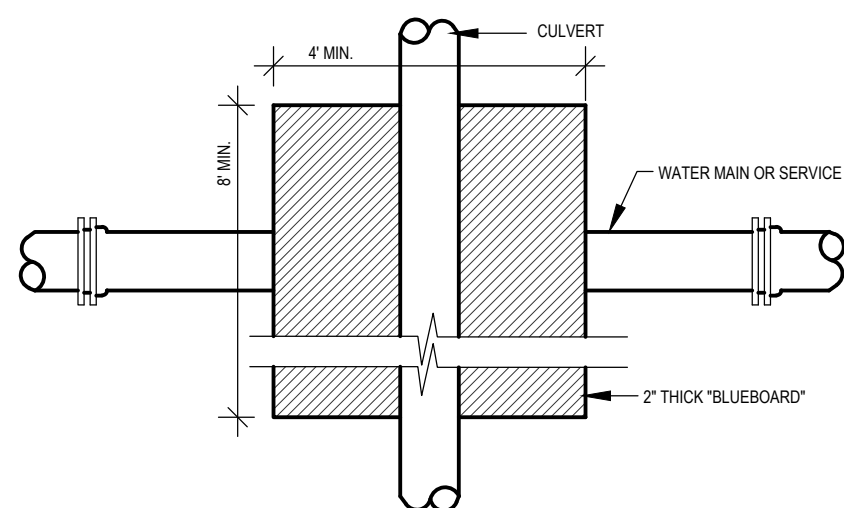
DRAWING NO.
C3.0

REV.	DATE	DESCRIPTION

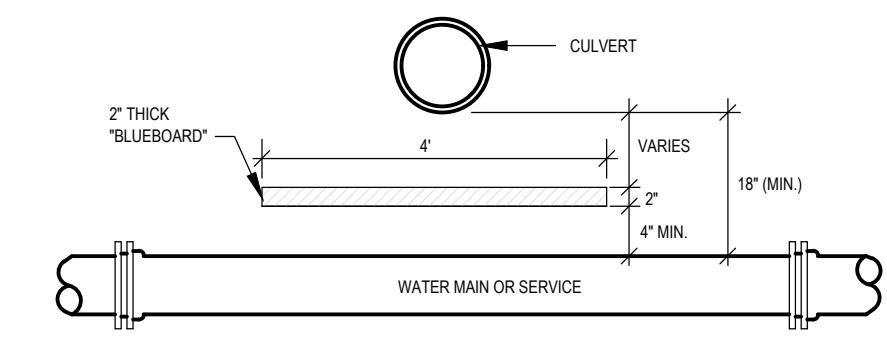


NOTE: "P" INCLUDES 1' MIN. CUTBACK OF BROKEN PAVEMENT ON EACH SIDE OF TRENCH

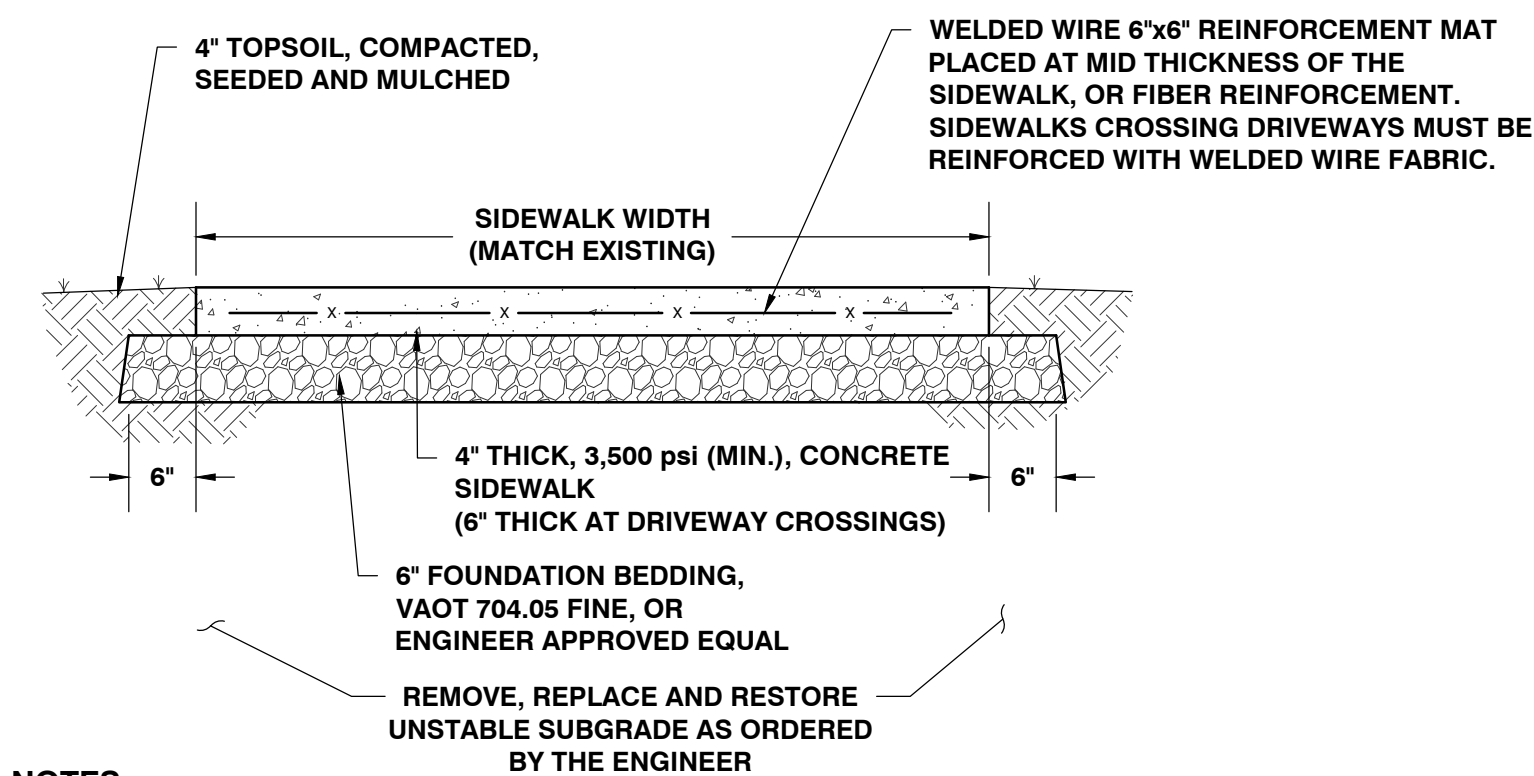
PAVEMENT PAYMENT LIMITS DETAIL
SCALE: NONE



PLAN-WATER MAIN OR SERVICE INSULATION
NOT TO SCALE

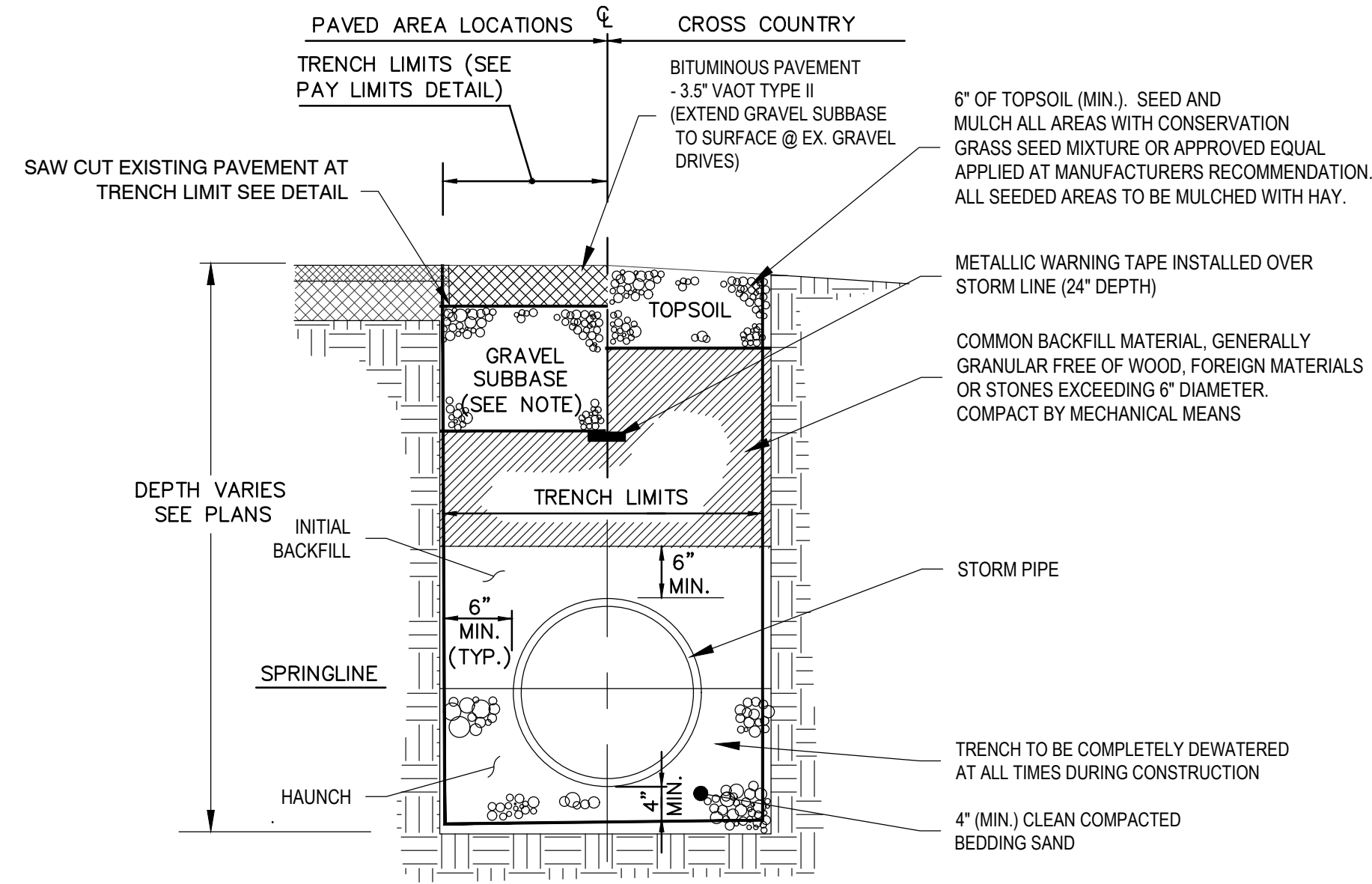


SECTION-WATER MAIN OR SERVICE INSULATION
NOT TO SCALE



- NOTES:**
1. SAW CUT SIDEWALK AT JOINT NEAREST CONSTRUCTION LIMITS.
 2. PLACE 1/2" PRE-MOLDED BITUMINOUS IMPREGNATED FELT EXPANSION JOINT MATERIAL, FULL WIDTH AND DEPTH OF WALK, BETWEEN NEW AND EXISTING WALKS.
 3. THE GRAVEL OR STONE BASE SHALL BE PLACED ON A WELL GRADED AND COMPACTED SUBGRADE. THE GRAVEL OR STONE BASE SHALL BE THOROUGHLY COMPACTED.
 4. ALL EXPOSED SURFACES SHALL BE BROOMED AND EDGES FINISHED WITH A 1/2" RADIUS EDGING TOOL. THE FINISHED CONCRETE SURFACE SHALL BE TREATED WITH A CLEAR, NON YELLOWING CURING COMPOUND.
 5. NO CONCRETE SHALL BE PLACED UNLESS THE AMBIENT AIR AND BASE MATERIAL SURFACE TEMPERATURE IS ABOVE 40 DEGREES.
 6. ALL WORK SHALL CONFORM TO ADA REQUIREMENTS.

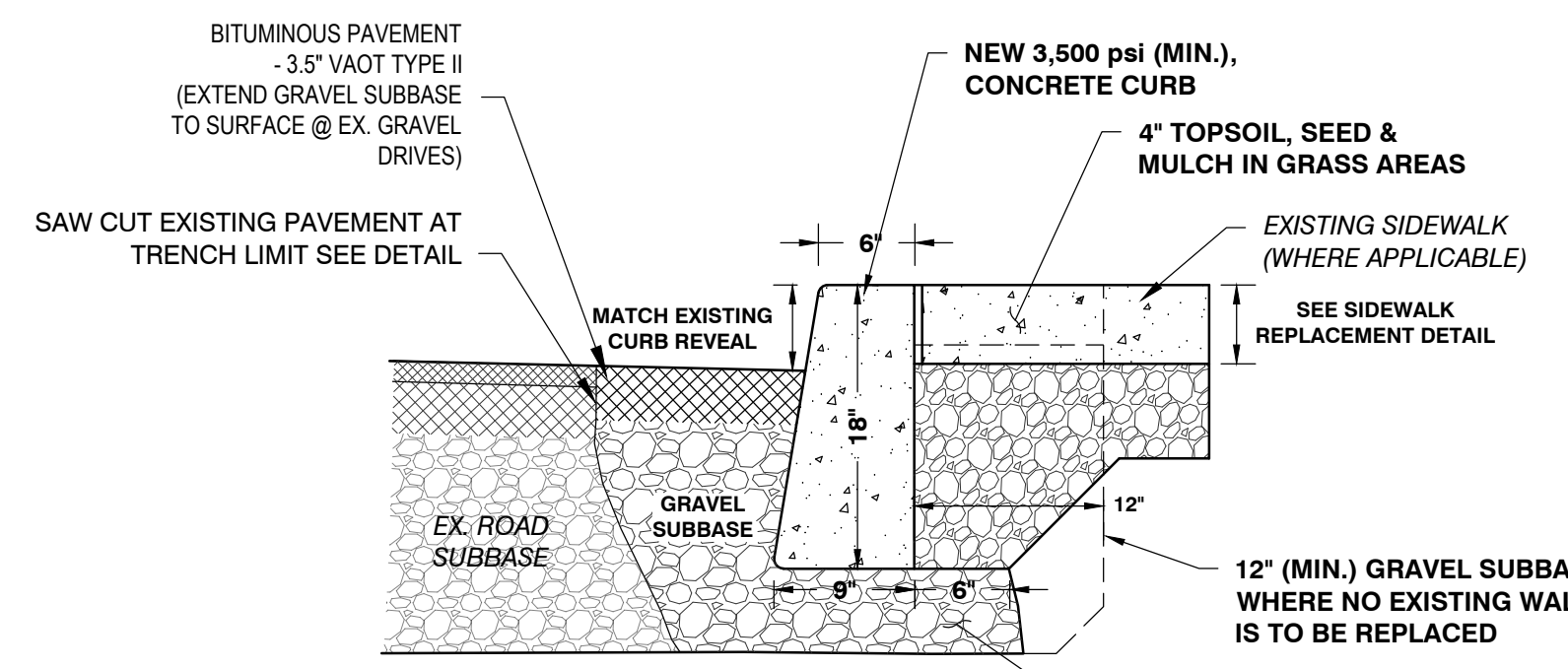
CONCRETE SIDEWALK REPLACEMENT DETAIL
N.T.S.



STORM TRENCH
NOT TO SCALE

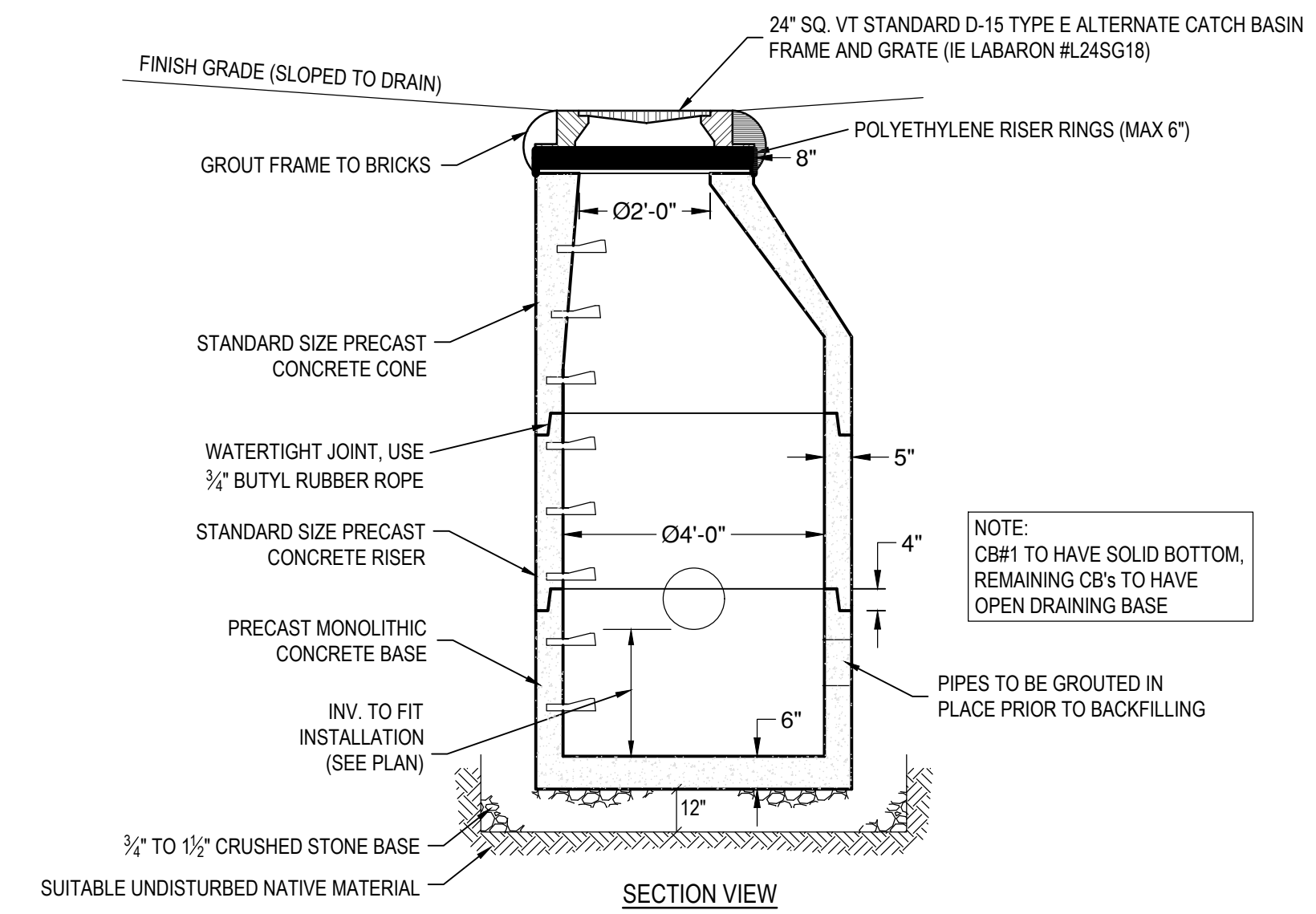
NOTES (UNLESS OTHERWISE SPECIFIED ON THESE DRAWINGS):

1. COMMON BACKFILL MATERIAL - SHALL BE NATIVE MATERIAL CONTAINING NO STONES GREATER THAN SIX INCHES IN DIAMETER, SHALL BE FREE OF ORGANIC MATTER, TOPSOIL, PEAT, MUCK, AND PAVEMENT OR OTHER UNSUITABLE MATERIAL. ALL MATERIAL TO BE PLACED IN 12" MAX. LIFTS COMPACTED BEFORE PLACING NEXT LIFT. BACKFILL DESIGNATED "COMPACTED" MEANS 90% MODIFIED PROCTOR. FILL PLACED BELOW AND AROUND PIPES MUST ALSO MEET THIS REQUIREMENT.
2. GRAVEL SUBBASE MATERIAL SHALL MEET VAOT 704.05 SPECIFICATIONS OR ENGINEER APPROVED EQUAL. MATERIAL SHALL BE PLACED IN 12" MAX. COMPACTED LIFTS.
3. BEDDING MATERIAL - BEDDING SHALL PROVIDE FIRM, UNIFORM SUPPORT OVER LENGTH OF PIPE. BEDDING SHALL BE CLEAN SAND AND MEET PIPE EMBEDMENT SPECIFICATIONS AS NOTED IN CONTRACT SPECIFICATIONS.
4. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE REFILL WITH BEDDING MATERIALS (SEE NOTE 5.)
5. SUITABLE MATERIAL IN ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SHALL BE NATURAL MATERIALS EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOPSOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED BEDROCK MATERIAL AND ALL ROCKS OVER SIX INCHES OR ANY MATERIALS WHICH DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITIONS
6. SHEETING IF REQUIRED, WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 12" ABOVE THE TOP OF THE PIPE. WHERE THE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST FEET BELOW FINISH GRADE, BUT NOT LESS THAN 12" ABOVE THE TOP OF THE PIPE.
7. CONTRACTOR TO PROVIDE NECESSARY GRADATION TESTS OF ALL MATERIALS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
8. IF ROADWAY FABRIC IS PRESENT, CUT BACK SUBBASE TO PROVIDE PROPER MANUFACTURERS RECOMMENDED LAP JOINT. FABRIC TO BE MIRAFI 500X OR APPROVED EQUAL.



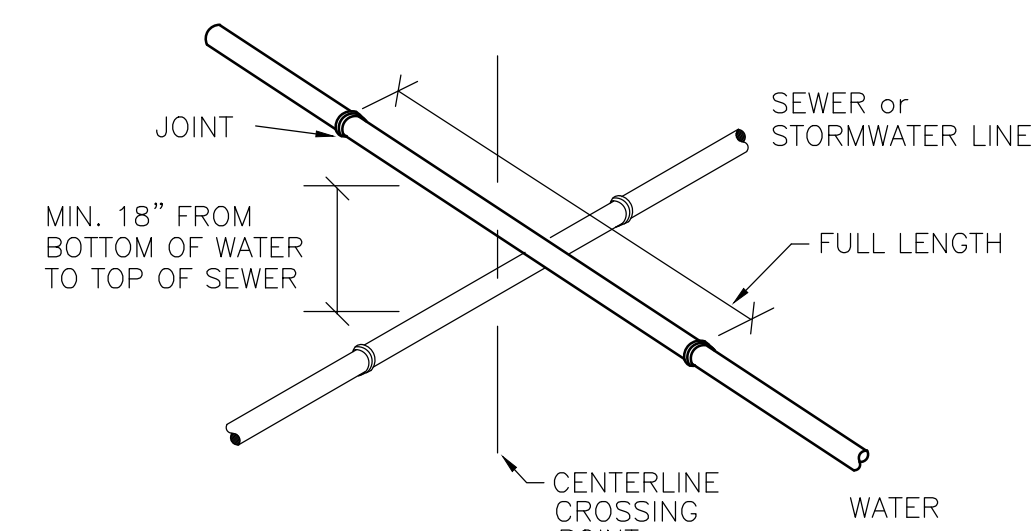
- NOTES:**
1. SAW CUT CURB/REMOVE EXISTING CURB AT JOINT NEAREST CONSTRUCTION LIMITS.
 2. THE GRAVEL OR STONE BASE SHALL BE PLACED ON A WELL GRADED AND COMPACTED SUBGRADE. THE GRAVEL OR STONE BASE SHALL BE THOROUGHLY COMPACTED.
 3. NO CONCRETE SHALL BE PLACED UNLESS THE AMBIENT AIR AND BASE MATERIAL SURFACE TEMPERATURE IS ABOVE 40 DEGREES.
 4. ALL WORK SHALL CONFORM TO ADA REQUIREMENTS.

CONCRETE CURB REPLACEMENT DETAIL
N.T.S.



- NOTES:**
1. PRECAST STRUCTURES PER S.D. IRELAND PRE-CAST (OR EQUAL)
 2. CONCRETE SHALL BE 4000 PSI AT 28 DAYS
 3. PRECAST DESIGN SHALL BE SUITABLE FOR H-20 LOADING
 4. EACH SECTION TO HAVE LIFTING HOLES CAST IN. LIFTING HOLES TO BE FILLED WITH WATER PLUG AFTER INSTALLATION
 5. EACH SECTION TO BE LABELED WITH C.B. DESIGNATION

TYPICAL CATCH BASIN
NOT TO SCALE



- NOTES:**
1. NEW WATER MAINS SHALL BE LAID AT LEAST 10' FROM EXISTING SEWER LINES WHEN RUNNING PARALLEL AND AT SAME ELEVATION.
 2. WHERE A NEW WATER MAIN CROSSES OVER AN EXISTING SEWER LINE THERE WILL BE A MINIMUM VERTICAL SEPARATION DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER AND THE OUTSIDE OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO AS BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE.
 3. WHERE A NEW WATER MAIN CROSSES UNDER AN EXISTING SEWER LINE THERE WILL BE A MINIMUM VERTICAL SEPARATION DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER AND THE OUTSIDE OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO AS BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. BOTH JOINTS OF THE CROSSING WATER LINE SECTION SHALL BE CONCRETE ENCASED AND THE SEWER PROPERLY SUPPORTED.

WASTEWATER or WATER/STORMWATER SEPARATION DETAIL
SCALE: NONE

VTM ENGINEERING, PLC 2941 SHELburnE FALLS ROAD HINESBURG, VT 05461 (802) 233-7531		DESCRIPTION	DATE	REV.	BY
PRELIMINARY PLANS NOT FOR CONSTRUCTION					
DESIGNED	SP	PROJECT	SCALE	DATE	
DRAWN	PM	AS SHOWN			
CHECKED	SP				
PROJECT NO. 22.1.3		DRAWING NO. C3.1			

