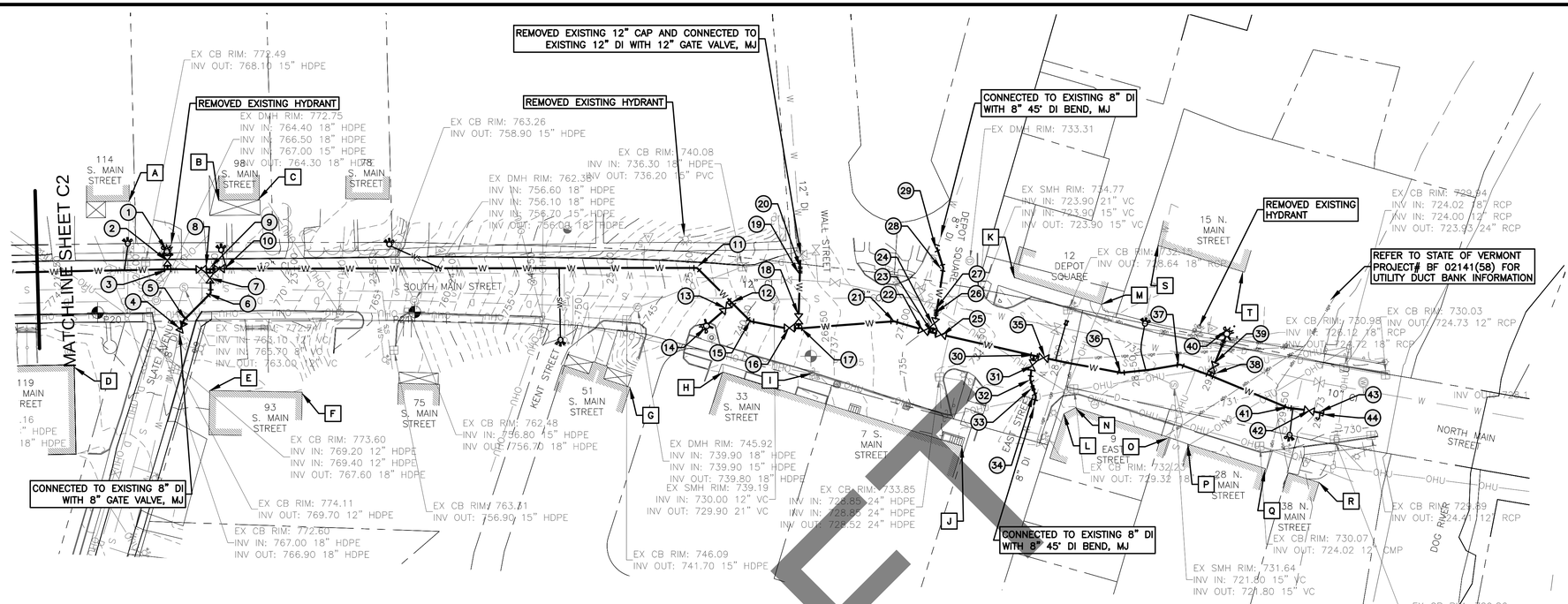
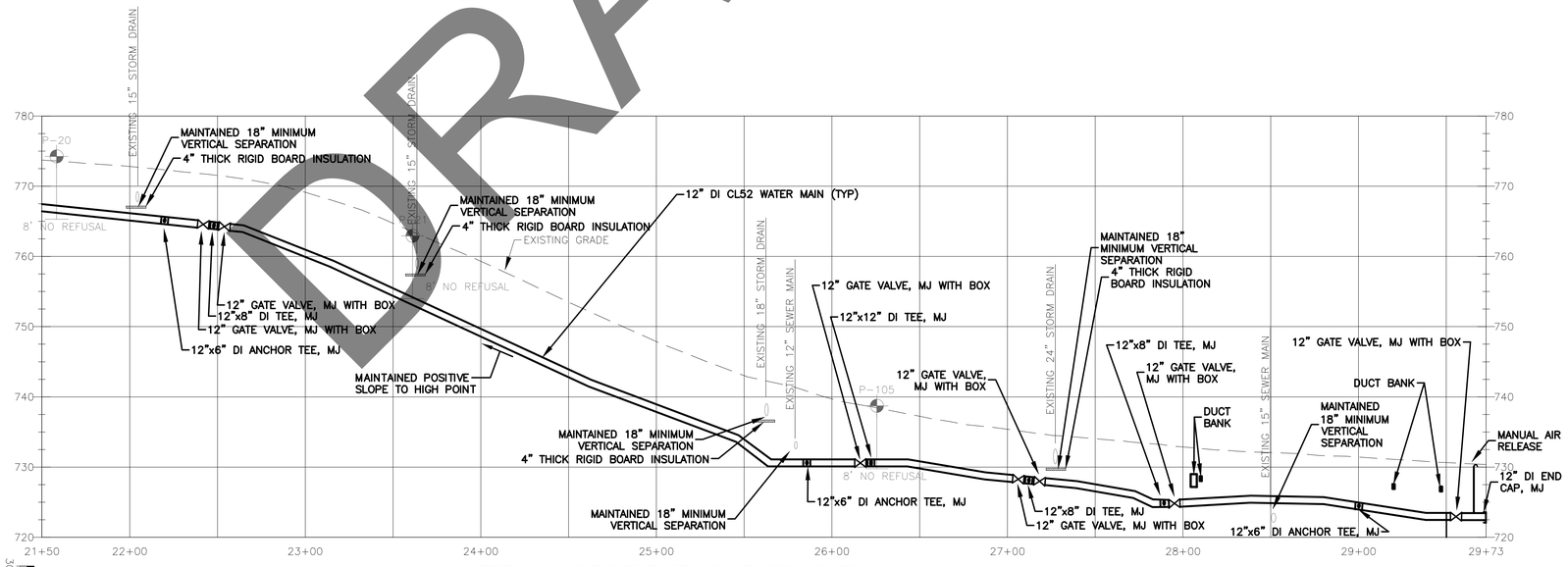
LETTER TIE POINT	
A	BLDG CORNER #114 S. MAIN ST
B	BLDG CORNER #98 S. MAIN ST
C	BLDG CORNER #98 S. MAIN ST
D	BLDG CORNER #119 S. MAIN ST
E	BLDG CORNER #98 S. MAIN ST
F	BLDG CORNER #98 S. MAIN ST
G	BLDG CORNER #51 S. MAIN ST
H	BLDG CORNER #33 S. MAIN ST
I	EDGE OF TELEPHONE POLE
J	BLDG CORNER #7 S. MAIN ST
K	BLDG CORNER #12 DEPOT SQ
L	BLDG CORNER #9 EAST ST
M	BLDG CORNER #12 DEPOT SQ
N	BLDG CORNER #9 EAST ST
O	BLDG CORNER #9 EAST ST
P	BLDG CORNER #28 S. MAIN ST
Q	BLDG CORNER #28 S. MAIN ST
R	BLDG CORNER #38 S. MAIN ST



STA 21+50 TO 29+51 TIES *(FEET)*						
NUMBER	ITEM DESCRIPTION	LETTER	TIE	LETTER	TIE	DEPTH
1	HYDRANT	A	39.5	B	57.8	6.0
2	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT ANCHOR TEE	A	44.0	B	50.4	6.3
3	12"x6" DI ANCHOR TEE, MJ	–	–	–	–	6.3
4	8" GATE VALVE, MJ, WITH BOX	D	72.0	E	44.0	6.5
5	8"–22° DI BEND, MJ, FOSTERED ON 8" GATE VALVE	–	–	–	–	6.5
6	8"–45° DI BEND, MJ	E	62.3	F	68.2	6.5
7	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6.3
8	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6.3
9	12"x8" DI TEE, MJ	B	44.1	C	54.0	6.3
10	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6.3
11	12"–45° DI BEND, MJ	G	87.0	H	67.5	8
12	12"x6" DI ANCHOR TEE, MJ	12–15	14.2	–	–	9.3
13	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT ANCHOR TEE	–	–	–	–	9.3
14	HYDRANT	G	62.0	H	31.0	7
15	12"–45° DI BEND, MJ	G	86.0	H	36.0	7
16	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	H	54.0	I	32.0	6.5
17	12"x12" DI TEE, MJ	–	–	–	–	6.5
18	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	H	57.0	I	33.0	6.5
19	12"–22.5° DI VERTICAL BEND, MJ	18–19	26.0	–	–	6.5
20	12"–22.5° DI VERTICAL BEND, MJ	19–20	3.5	–	–	7.5
21	12"–11.25° DI BEND, MJ	J	90.0	K	81.0	6.5
22	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6
23	12"x8" DI TEE, MJ	J	74.5	K	62.0	6
24	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6
25	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6
26	8"–45° DI VERTICAL BEND, MJ	23–26	2.0	–	–	6
27	8"–45° DI VERTICAL BEND, MJ	23–27	4.0	–	–	7.5
28	8"–22.5° DI BEND, MJ	J	113.4	K	43.4	7.5
29	8"–45° DI BEND, MJ	J	125.6	K	50.0	7.5
30	12"x8" DI TEE, MJ	–	–	–	–	6.5
31	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	L	37.5	M	52.3	6.5
32	8"–45° DI BEND, MJ	31–32	2.0	–	–	6.5
33	8" DI SOLID SLEEVE, MJ	32–33	0.5	–	–	6.5
34	8"–45° DI BEND, MJ	33–34	0.5	–	–	6.5
35	12" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	L	38.0	M	50.5	6.5
36	12"–22.5° DI BEND, MJ	N	36.1	O	50.8	6.0
37	12"–22.5° DI BEND, MJ	L	63.0	O	46.5	6.0
38	12"x6" DI ANCHOR TEE, MJ	–	–	–	–	6.0
39	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT ANCHOR TEE	O	47.1	Q	68.8	6.0
40	HYDRANT	S	86.0	T	36.0	5.5
41	12"–11.25° DI BEND, MJ	Q	41.8	R	48.7	6.5
42	12" GATE VALVE, MJ, WITH BOX	Q	45.8	R	45.9	6.5
43	MANUAL AIR RELEASE	42–43	3.0	–	–	6.5
44	12" END CAP, MJ	43–44	1.0	–	–	6.5

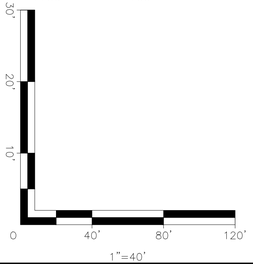
WATER MAIN PLAN STA 21+50 TO 29+73

SCALE: 1"=40'



WATER MAIN PROFILE STA 21+50 TO 29+73

SCALE: H= 1"=40'
V= 1"=10'



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ROUTE 12 WATER MAIN REPLACEMENT
CONTRACT 2023-1

WATER MAIN PLAN AND PROFILE STA 21+50 TO STA 29+61

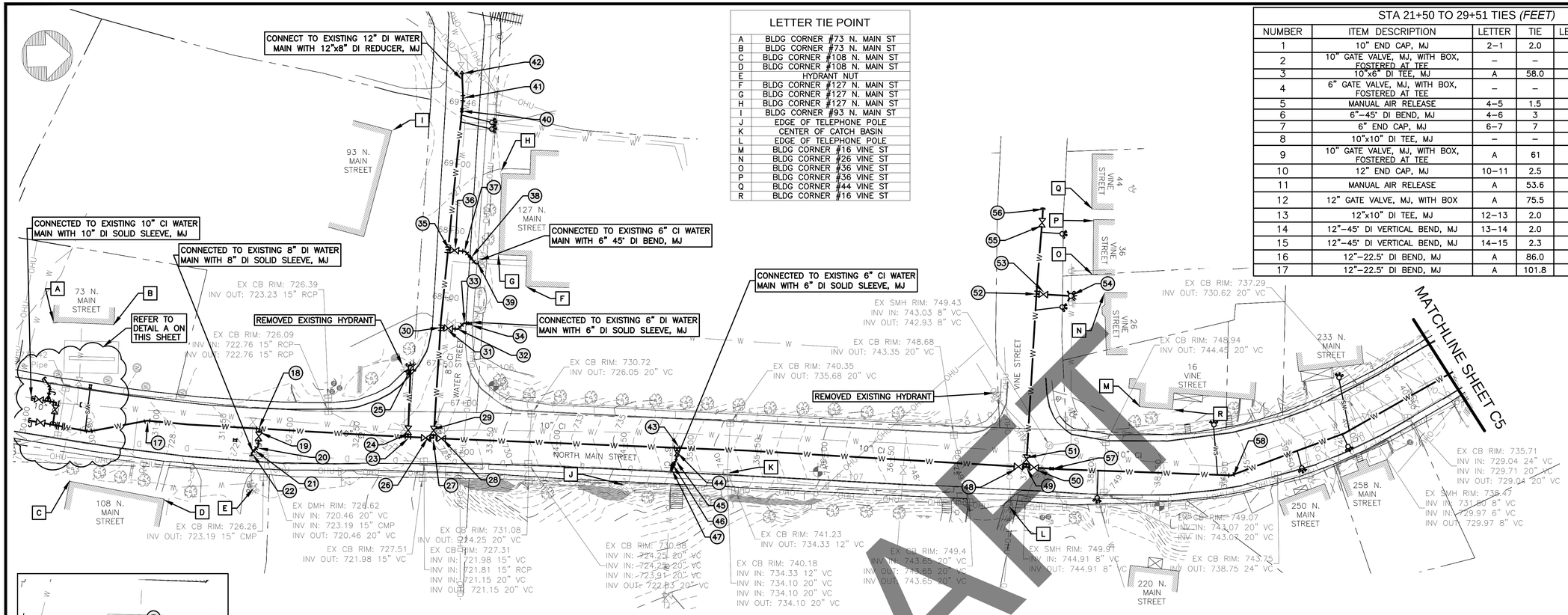
NORTHFIELD, VERMONT

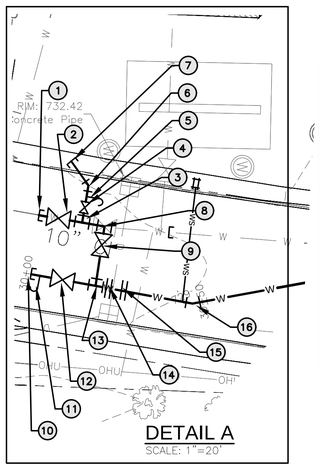
Project #	4122021
Project Mgr.	N.R. JOHNSON
Design by	T.P. KNAPP
Drawn by	M.C.BISSELL
Reviewed by	T.P.KNAPP
Approved by	T.P.KNAPP
Date	JULY 29, 2024
Scale	AS SHOWN

C3

SHEET 4 OF 10

FILE: P:\Northfield VT\612409-10 Water Contracts 1-2\Tech\Construction\Contract 1\Record Drawings\Water Main Contract-1\Bridge\REFRENCE ONLY 1.dwg Feb 09, 2026 - 10:16am





LETTER TIE POINT

A	BLDG CORNER #73 N. MAIN ST
B	BLDG CORNER #73 N. MAIN ST
C	BLDG CORNER #108 N. MAIN ST
D	BLDG CORNER #108 N. MAIN ST
E	HYDRANT NUT
F	BLDG CORNER #127 N. MAIN ST
G	BLDG CORNER #127 N. MAIN ST
H	BLDG CORNER #127 N. MAIN ST
I	BLDG CORNER #93 N. MAIN ST
J	EDGE OF TELEPHONE POLE
K	CENTER OF CATCH BASIN
L	EDGE OF TELEPHONE POLE
M	BLDG CORNER #16 VINE ST
N	BLDG CORNER #26 VINE ST
O	BLDG CORNER #36 VINE ST
P	BLDG CORNER #36 VINE ST
Q	BLDG CORNER #44 VINE ST
R	BLDG CORNER #16 VINE ST

STA 21+50 TO 29+51 TIES *(FEET)*

NUMBER	ITEM DESCRIPTION	LETTER	TIE	LETTER	TIE	DEPTH
1	10" END CAP, MJ	2–1	2.0	B	50.4	7.0
2	10" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	7.0
3	10"x6" DI TEE, MJ	A	58.0	B	75.0	7.0
4	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	7.0
5	MANUAL AIR RELEASE	4–5	1.5	–	–	7.0
6	6"–45° DI BEND, MJ	4–6	3	–	–	7.0
7	6" END CAP, MJ	6–7	7	–	–	7.0
8	10"x10" DI TEE, MJ	–	–	–	–	7.0
9	10" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	A	61	B	73	7.0
10	12" END CAP, MJ	10–11	2.5	–	–	7.0
11	MANUAL AIR RELEASE	A	53.6	C	75	7.0
12	12" GATE VALVE, MJ, WITH BOX	A	75.5	C	48	7.0
13	12"x10" DI TEE, MJ	12–13	2.0	–	–	7.0
14	12"–45° DI VERTICAL BEND, MJ	13–14	2.0	–	–	7.0
15	12"–45° DI VERTICAL BEND, MJ	14–15	2.3	–	–	5.0
16	12"–22.5° DI BEND, MJ	A	86.0	B	82.0	6.5
17	12"–22.5° DI BEND, MJ	A	101.8	B	76	6.5

STA 21+50 TO 29+51 TIES *(FEET)*

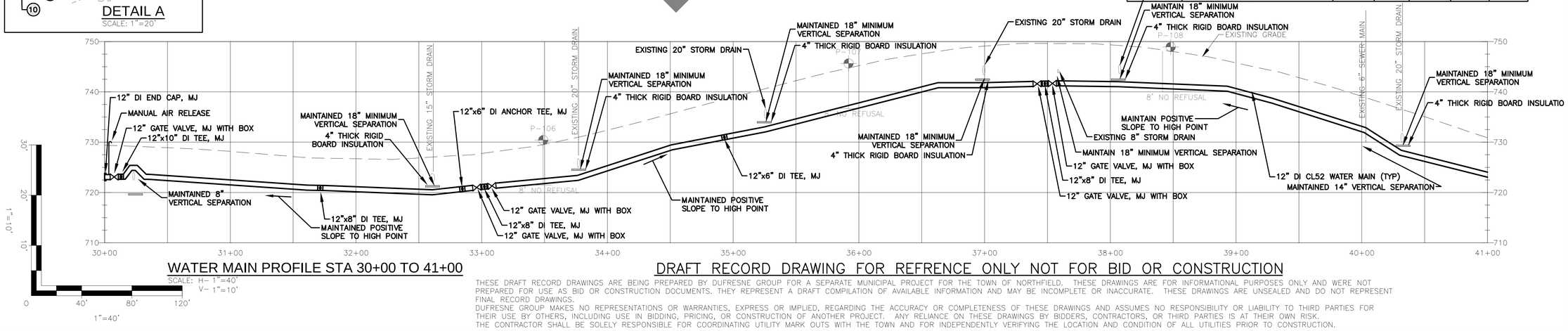
NUMBER	ITEM DESCRIPTION	LETTER	TIE	LETTER	TIE	DEPTH
18	12"x6" DI ANCHOR TEE, MJ	–	–	–	–	6.5
19	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	D	82.5	E	39.9	6.5
20	8"–45° DI BEND, MJ	19–20	4.2	–	–	6.5
21	8" DI SOLID SLEEVE, MJ	20–21	2.5	–	–	6.5
22	8"–45° DI BEND, MJ	20–22	5.0	–	–	6.5
23	12"x6" DI ANCHOR TEE, MJ	–	–	–	–	6.5
24	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	F	155	G	139	6.5
25	HYDRANT	F	104	G	106	6
26	12" GATE VALVE, MJ, WITH BOX	26–27	2.0	–	–	6.5
27	12"x8" DI TEE, MJ	F	133.0	G	145.6	6.5
28	12" GATE VALVE, MJ, WITH BOX	27–28	2.0	–	–	6.5
29	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6.5
30	12"x6" DI TEE, MJ	–	–	–	–	6.0

WATER MAIN PLAN STA 30+00 TO 41+00

SCALE: 1"=40'

31	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	F	67.0	G	65.5	6.0
32	6"–45° DI BEND, MJ	31–32	1.8	–	–	6.0
33	6"–45° DI BEND, MJ	32–33	6.0	–	–	5.8
34	6" DI SOLID SLEEVE, MJ	33–34	2.8	–	–	5.5
35	12"x6" DI TEE, MJ	–	–	–	–	6.0
36	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	F	61.4	G	35.3	6.0
37	6"–45° DI BEND, MJ	36–37	2.8	–	–	6.0
38	6" DI SOLID SLEEVE, MJ	37–38	3.0	–	–	6.3
39	6"–45° DI BEND, MJ	38–39	3.0	–	–	6.5
40	8" DI SOLID SLEEVE, MJ	H	55.3	I	54.4	6.5
41	8"–22.5° DI BEND, MJ	H	64.0	I	58.0	6.5
42	12"x8" DI REDUCER, MJ, FOSTERED AT EXISTING GATE VALVE	–	–	–	–	6.5

43	12"x6" DI TEE, MJ	–	–	–	–	6.0
44	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	J	42.5	K	46.0	6.0
45	6"–45° DI BEND, MJ	44–45	1.8	–	–	6.0
46	6"–45° DI BEND, MJ	45–46	4.0	–	–	7
47	6" DI SOLID SLEEVE, MJ	46–47	1.0	–	–	7
48	12" GATE VALVE, MJ, WITH BOX	48–49	2.0	–	–	6.5
49	12"x8" DI TEE, MJ	L	32.0	M	95.4	6.5
50	12" GATE VALVE, MJ, WITH BOX	49–50	2.0	–	–	6.5
51	8" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	–	–	–	–	6.5
52	12"x6" DI ANCHOR TEE, MJ	–	–	–	–	6.5
53	6" GATE VALVE, MJ, WITH BOX, FOSTERED AT TEE	N	54.0	O	38	6.5
54	HYDRANT	N	25.0	O	22	6
55	8" GATE VALVE, MJ, WITH BOX,	Q	38.4	P	38.4	6.5
56	8" END CAP, MJ	55–56	2.0	–	–	6.5
57	12" DI SOLID SLEEVE, MJ	49–57	9.9	–	–	6
58	12"–22.5° DI BEND, MJ	M	86.0	R	66	5



WATER MAIN PROFILE STA 30+00 TO 41+00

SCALE: H– 1"=40'
V– 1"=10'

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ROUTE 12 WATER MAIN REPLACEMENT
CONTRACT 2023-1

WATER MAIN PLAN AND PROFILE STA 30+00 TO STA 41+00

NORTHFIELD, VERMONT

Project #	4122021
Project Mgr.	N.R. JOHNSON
Design by	T.P. KNAPP
Drawn by	M.C.BISSELL
Reviewed by	T.P.KNAPP
Approved by	T.P.KNAPP
Date	JULY 29, 2024
Scale	AS SHOWN

C4

SHEET 5 OF 10

FILE: P:\Northfield VT\6124009-10 Water Contracts 1~2\Tech\Construction\Contract 1\Record Drawings\Water Main Contract~1\Bridge\REFRENCE ONLY 1.dwg Feb 09, 2026 - 10:17am