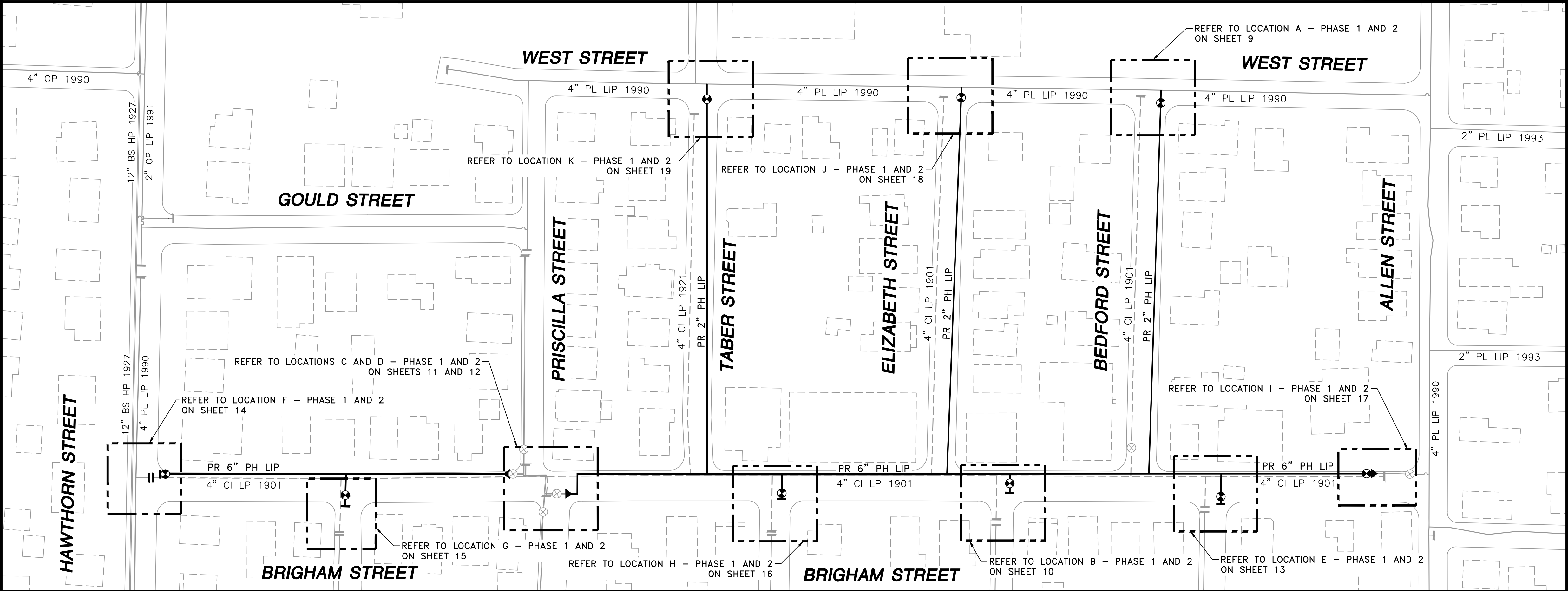
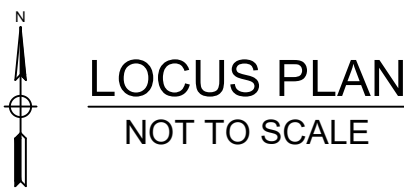
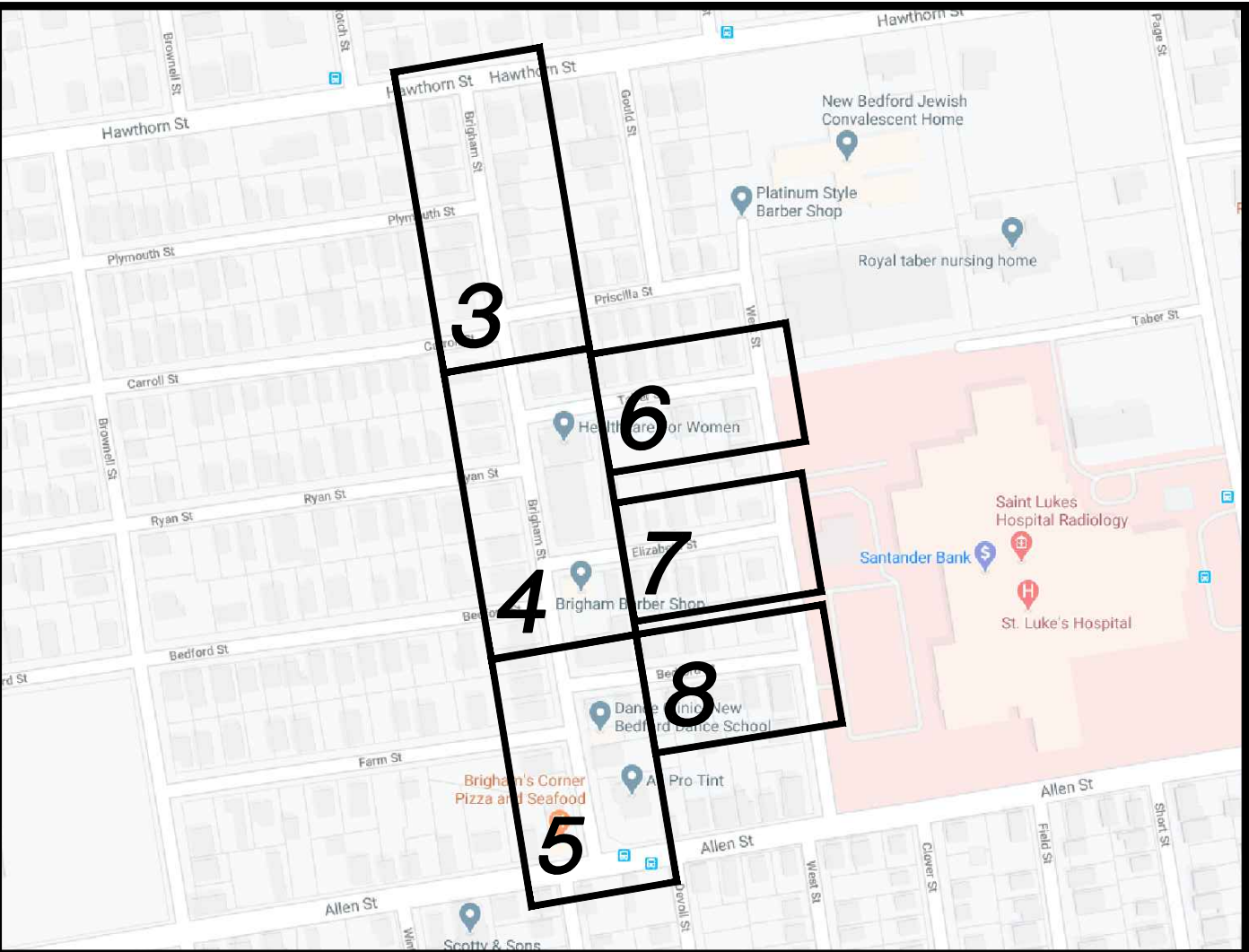


EVERSOURCE ENERGY

BRIGHAM STREET MAIN RELAY
INSTALLATION OF 1305' OF 6" PH LIP AND 1140' OF 2" PH LIP GAS MAIN
BRIGHAM STREET
NEW BEDFORD, MASSACHUSETTS
ENE PROJECT #: 2000000.84
EVERSOURCE PROJECT #: 1500616



SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	SITE PLAN, DRAWING LEGEND AND SHEET INDEX
2	GENERAL NOTES AND SCHEDULE OF MATERIALS
3	INSTALLATION PLAN
4	INSTALLATION PLAN
5	INSTALLATION PLAN
6	INSTALLATION PLAN
7	INSTALLATION PLAN
8	INSTALLATION PLAN
9	LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS
10	LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS
11	LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS
12	LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS
13	LOCATION E - PHASE 1, 2 AND SCHEDULE OF MATERIALS
14	LOCATION F - PHASE 1, 2 AND SCHEDULE OF MATERIALS
15	LOCATION G - PHASE 1, 2 AND SCHEDULE OF MATERIALS
16	LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS
17	LOCATION I - PHASE 1, 2 AND SCHEDULE OF MATERIALS
18	LOCATION J - PHASE 1, 2 AND SCHEDULE OF MATERIALS
19	LOCATION K - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SITE PLAN
NEW BEDFORD, MASSACHUSETTS
(SCALE: 1"=60')

0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE ENERGY

BRIGHAM STREET MAIN RELAY

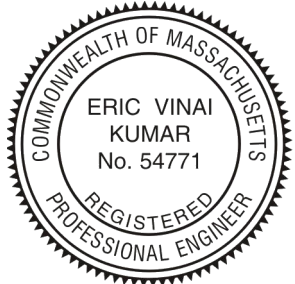
NEW BEDFORD, MASSACHUSETTS

SITE PLAN, LOCUS PLAN AND SHEET INDEX

SCALE: AS NOTED		SHEET 1 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-01	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		

ISSUED FOR
CONSTRUCTION
04/09/2020

SEALED BY:



SIGNATURE

SEALED ON:

04/09/2020

LICENSE
EXPIRATION:

06/30/2020

DESIGNED IN ACCORDANCE WITH TITLE
49, PART 192 OF MINIMUM FEDERAL SAFETY
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TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS, LATEST EDITION.

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FAX (630) 559-7777
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

GENERAL NOTES

1.

IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.

A.

IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN

B.

IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED

C.

IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION

D.

IF A CHANGE IN PIPE SIZE, MATERIAL, FITTINGS, OR WALL THICKNESS IS REQUIRED.
2.

MINOR CHANGES SUCH AS OFFSETS MAY NOT REQUIRE DRAWING CHANGES.
3.

EXCAVATOR SHALL CALL DIGSAFE/CALL BEFORE YOU DIG (DIAL 811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED FROM THE 72-HOUR TIME SPAN, NOT CONSIDERED BUSINESS WORKDAYS.
4.

CONSTRUCTION DRAWINGS ARE BASED ON EVERSOURCE HISTORICAL DOCUMENTATION AND HAVE NOT BEEN FIELD VERIFIED. WHEN THE PIPE IS EXPOSED AND VARIANCES TO THE CERTIFIED DRAWINGS ARE FOUND, CONTACT GAS ENGINEERING TO DETERMINE PATH FORWARD.
5.

ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE, OSHA, AND FEDERAL REGULATIONS AND STANDARDS.
6.

MATERIAL AND CONSTRUCTION SHALL CONFORM TO EVERSOURCE GAS STANDARDS.
7.

THE LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. ADDITIONAL UNDERGROUND FACILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE DRAWINGS WHICH MAY REQUIRE ADDITIONAL OFFSETS IN THE PIPELINE.
8.

WORK LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS OF TIE-INS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION TO SUIT FIELD CONDITIONS AT THE SPECIFIC TIE-IN POINT. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY TIE-IN WORK.
9.

ALL LIVE GAS WORK INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
10.

EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
11.

IF THE PROJECT IS WITHIN 50 FEET OF A DISTRICT REGULATOR OR GATE STATION, ENSURE THAT A QUALIFIED I&R TECHNICIAN IS ON SITE.
12.

ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.
13.

PROPERTY LINES, STRUCTURES AND EXISTING CONDITIONS DEPICTED ON PLANS ARE BASED ON EVERSOURCE GIS INFORMATION AND HAVE NOT BEEN VERIFIED BY LAND SURVEY UNLESS NOTED.
14.

EXISTING SERVICES SHOWN ON PLAN ARE FOR INFORMATION ONLY. PROPOSED SERVICES ARE NOT SHOWN ON PLANS AND ARE TO BE INSTALLED PER EVERSOURCE CONSTRUCTION STANDARDS.
15.

PROPOSED WORK SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS.
16.

MAINS AND SERVICES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH EVERSOURCE OM-205.
17.

MAOP:

LP = 14" W.C.

LIP = 35 PSIG

IP = 60 PSIG

HP = 90 PSIG
18.

ALL WORK SHALL BE PERFORMED PER EVERSOURCE, LOCAL, STATE AND FEDERAL REGULATIONS AND STANDARDS.
19.

ALL PIPE WILL BE INSTALLED WITH A MINIMUM DEPTH IN ACCORDANCE WITH EVERSOURCE STANDARDS
20.

SQUEEZE OPERATIONS SHOULD BE COMPLETED IN ACCORDANCE WITH OM-233
21.

ENSURE ALL SERVICES BEING TRANSFERRED TO A HIGHER PRESSURE SYSTEM HAVE UPGRADED PRESSURE REGULATORS INSTALLED PRIOR TO ACTIVATION.
22.

ENSURE VALVES ON EXISTING MAIN, WHERE PROPOSED MAIN WILL BE INSERTED HAVE BEEN MADE INOPERABLE.
23.

ADDITIONAL VALVES AND TEES THAT ARE INCLUDED IN THE SCHEDULE OF MATERIALS MAY BE INSTALLED TEMPORARILY WHEN NEEDED TO FACILITATE TIE-INS AND PURGES.
24.

METFIT FITTINGS MAY BE SUBSTITUTED FOR ELECTROFUSION FITTINGS WHERE NEEDED.

BRIGHAM STREET MAIN RELAY- SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
6	6	2"	562087	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
6A	6	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ. W/CI NON-LOCKING LID	
9	6	6"	562078	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
9A	6	6"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ. W/CI NON-LOCKING LID	
34	AS REQUIRED	2"	500854	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
36	AS REQUIRED	6"	500856	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
37	AS REQUIRED	8"	500857	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
43	AS REQUIRED	2"	545367	ELBOW, 90 DEG, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
45	AS REQUIRED	6"	545342	ELBOW, 90 DEG, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
49	AS REQUIRED	2"		ELBOW, 45 DEG, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
51	AS REQUIRED	6"	545339	ELBOW, 45 DEG, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
56	1	4" X 2"	555593	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
57	1	6" X 4"	555594	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
59	2	8" X 6"	555596	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
66	AS REQUIRED	2"	542572	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
68	AS REQUIRED	6"	542539	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
69	AS REQUIRED	8"	542540	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
75	4	6"	560680	TEE, STRAIGHT, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
104	13	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
106	3	4" X 1"	560781	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
108	3	6" X 1"	560785	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
110	6	8" X 1"	560788	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
128	3	4" X 2"	584304	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
129	8	6" X 2"		HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
130	2	8" X 2"	577623	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
152	10	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	40	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
256	AS REQUIRED	2"	582521	ELBOW, 90 DEG, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
263	1140'	2"	554025	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
266	1305'	6"	554009	PIPE, IPS, HDPE 3408/4710 SDR 11, ASTM D2513, ASTM D3350, PERFORMANCE PIPE OR APPROVED EQUAL	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
GENERAL NOTES AND SCHEDULE OF MATERIALS			
SCALE: NOT TO SCALE		SHEET 2 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER	REV. NO.
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-02	0

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04/09/2020

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SEALED ON:

04/09/2020

LICENSE EXPIRATION:

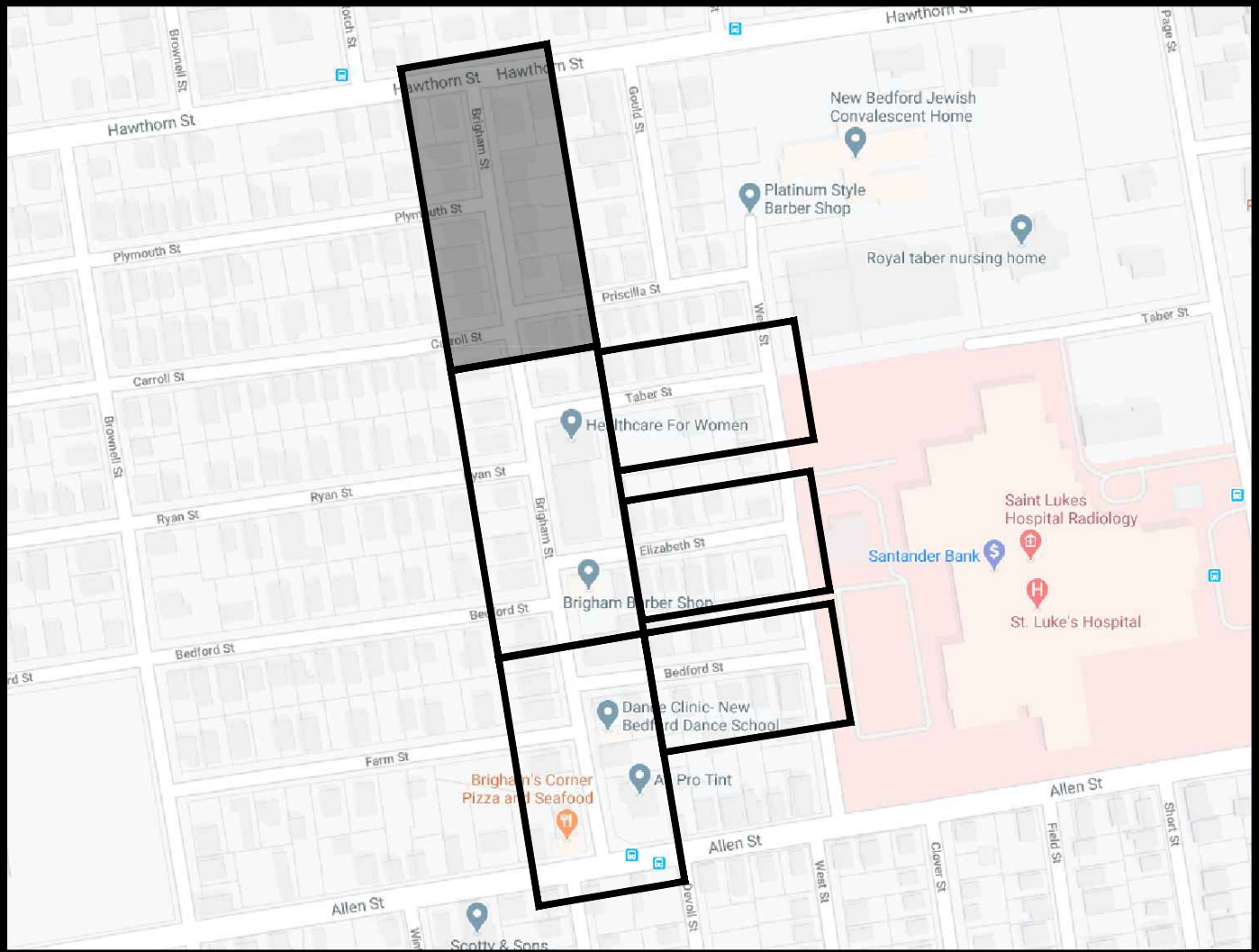
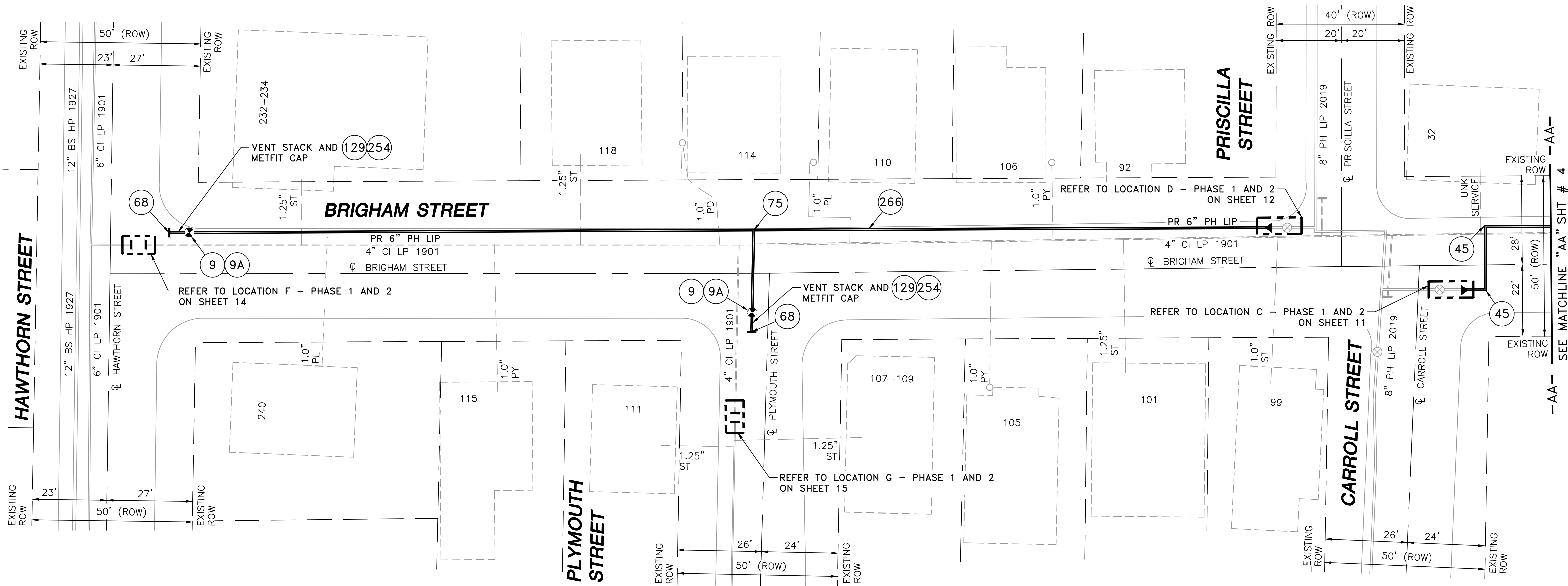
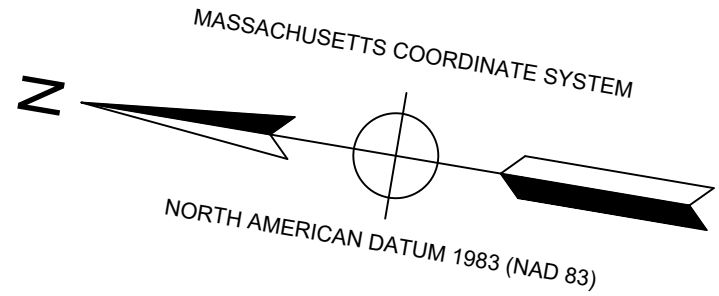
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LOCUS PLAN
NOT TO SCALE

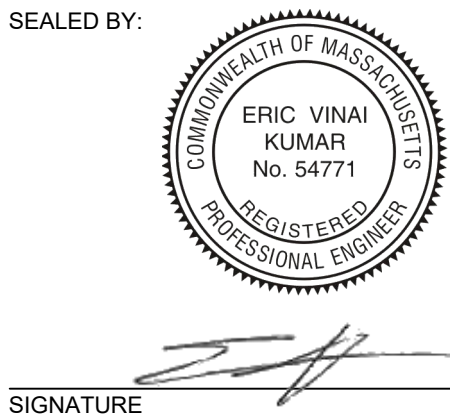
DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

- NOTES:
1. CONTRACTOR TO POT HOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
 2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
420'	6"	PH	INSTALL
520'	4"	CI	RETIRE

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CONSTRUCTION
04/09/2020



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04/09/2020
LISCENSE EXPIRATION:
06/30/2020

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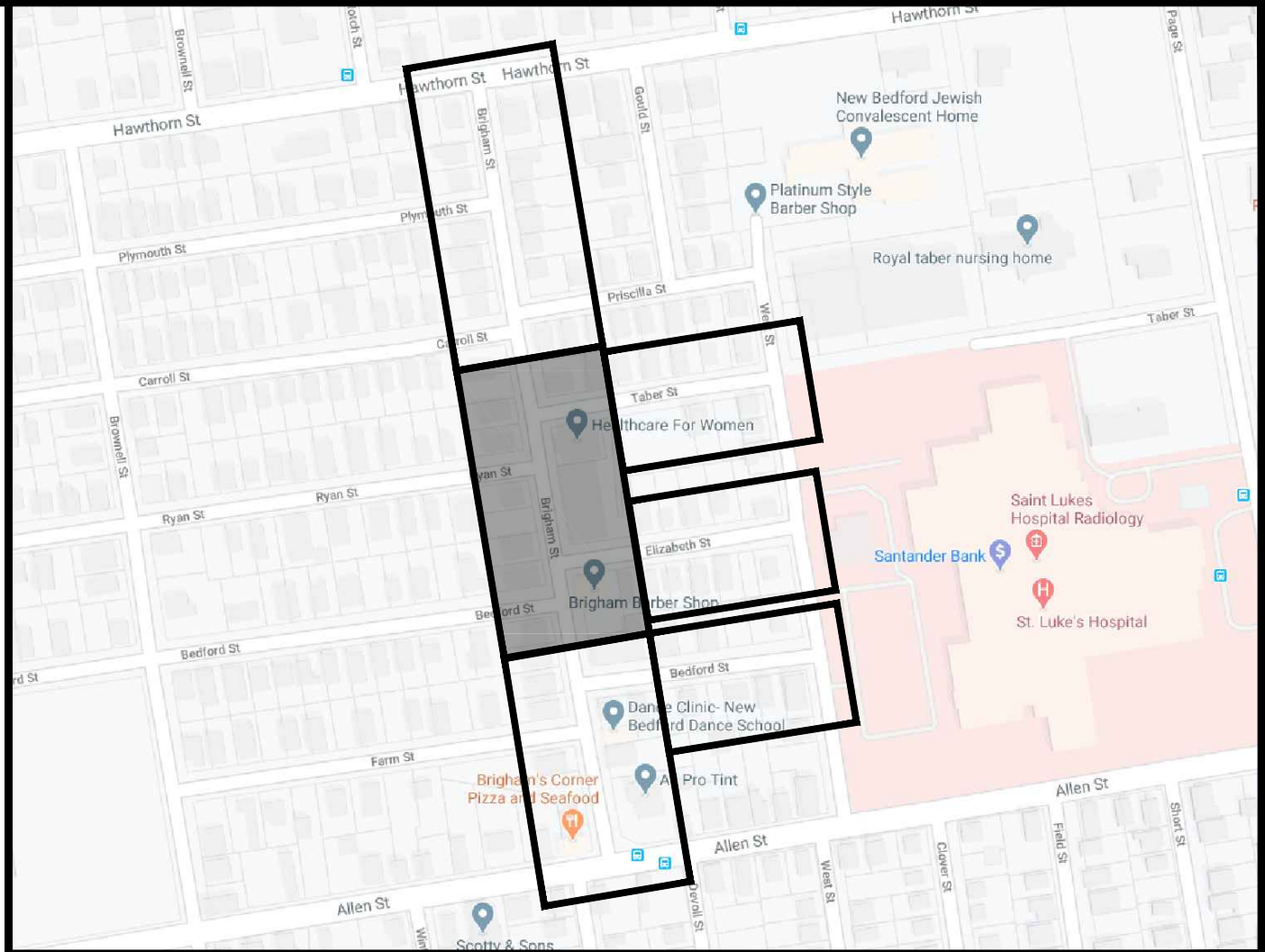
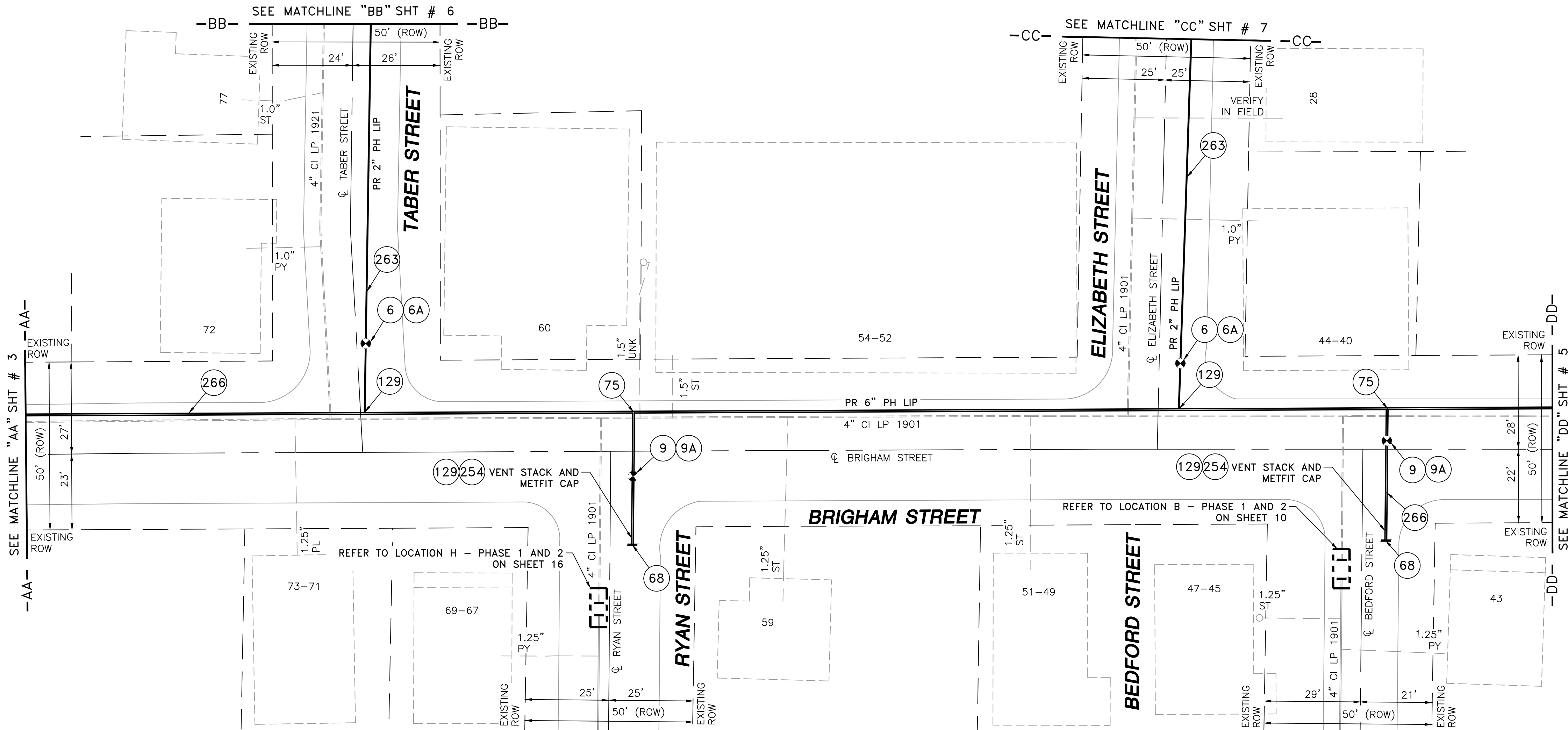
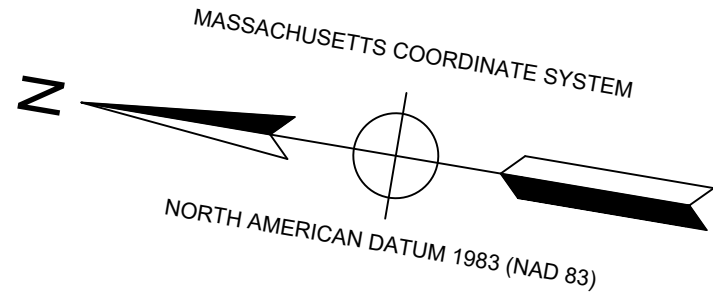
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY
BRIGHAM STREET MAIN RELAY
NEW BEDFORD, MASSACHUSETTS
INSTALLATION PLAN

SCALE: 1"=20'		SHEET 3 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-03	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

NOTES:
1. CONTRACTOR TO POT HOLE EXISTING UTILITIES
AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
535'	6"	PH	INSTALL
225'	2"	PH	INSTALL
785'	4"	CI	RETIRE

ISSUED FOR
CONSTRUCTION
04/09/2020

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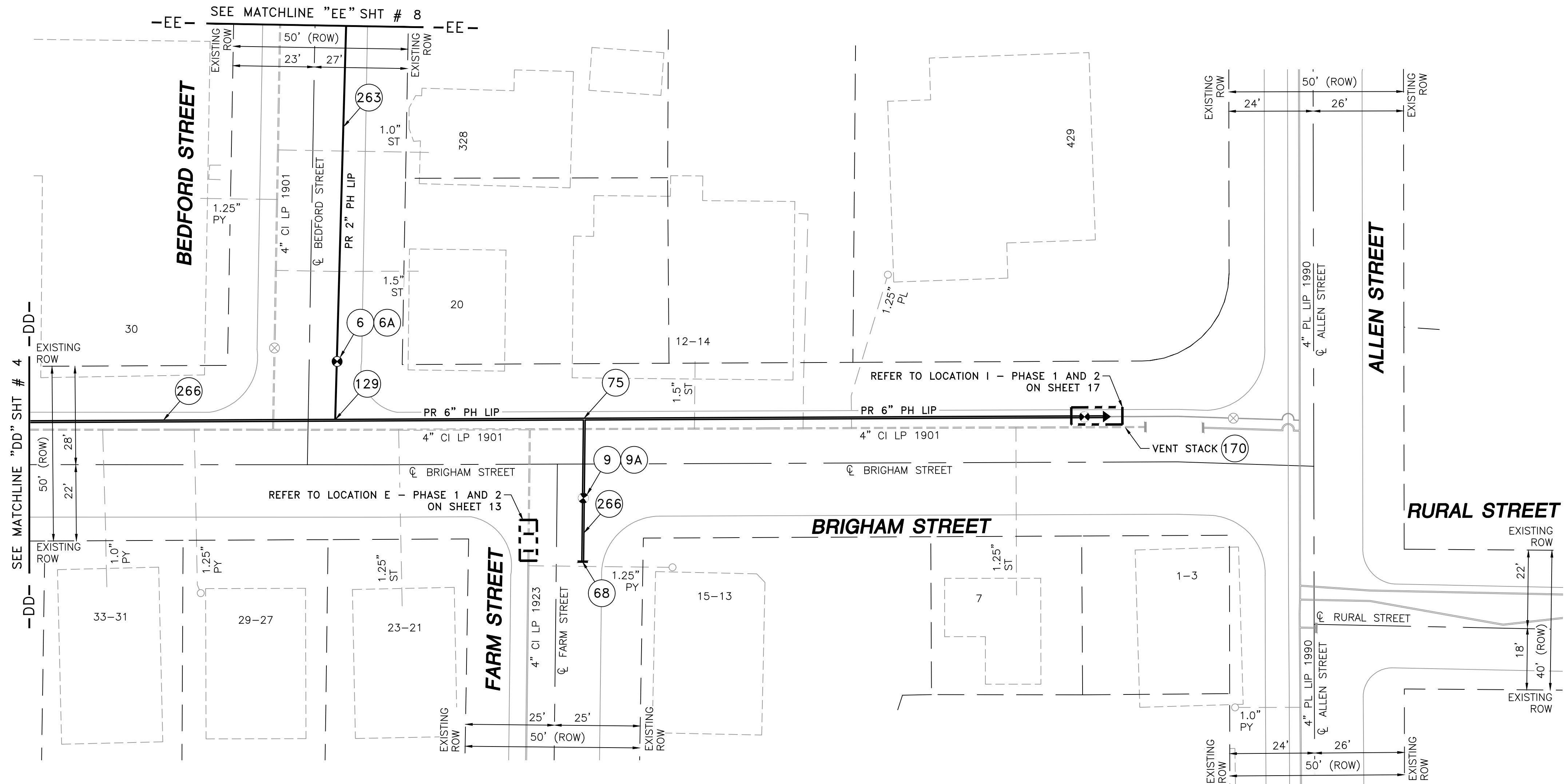
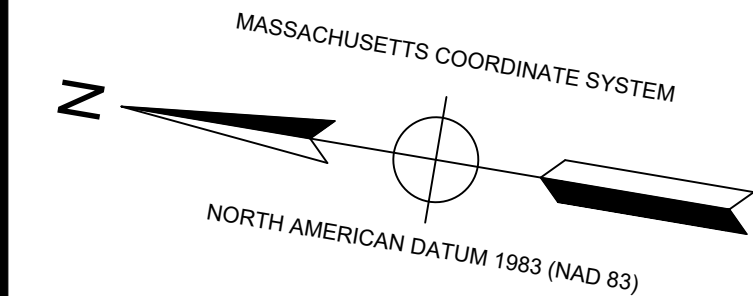
SIGNATURE

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06/30/2020

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NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS			
INSTALLATION PLAN			
SCALE: 1"=20'		SHEET 4 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-04	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



NOTES:

1. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.

2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
350'	6"	PH	INSTALL
115'	2"	PH	INSTALL
465'	4"	CI	RETIRE

ISSUED FOR
CONSTRUCTION
04/09/2020

SEALED BY:

ERIC VINAI KUMAR
No. 54771
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

SEALED ON:

04/09/2020

LICENSE EXPIRATION:

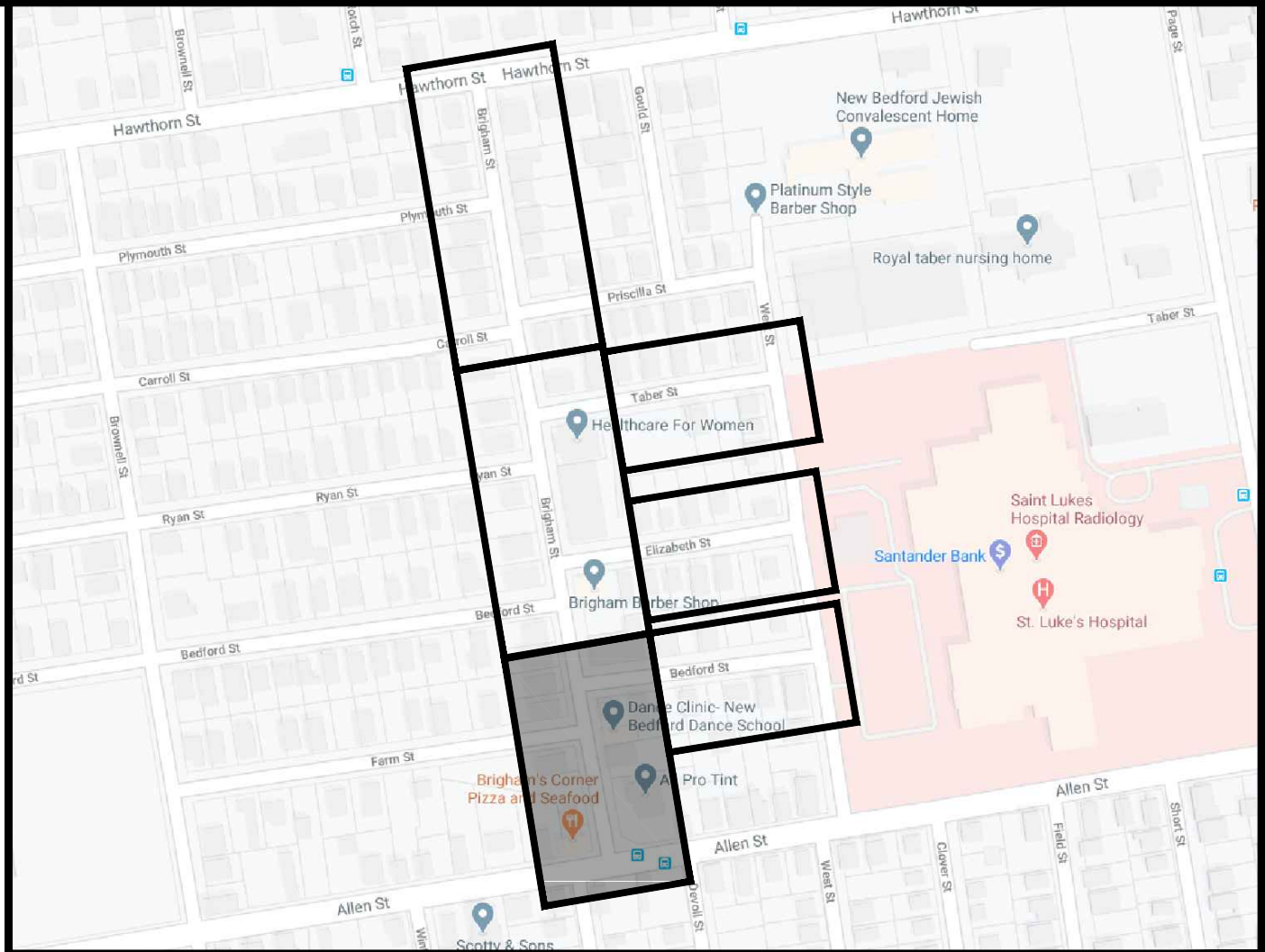
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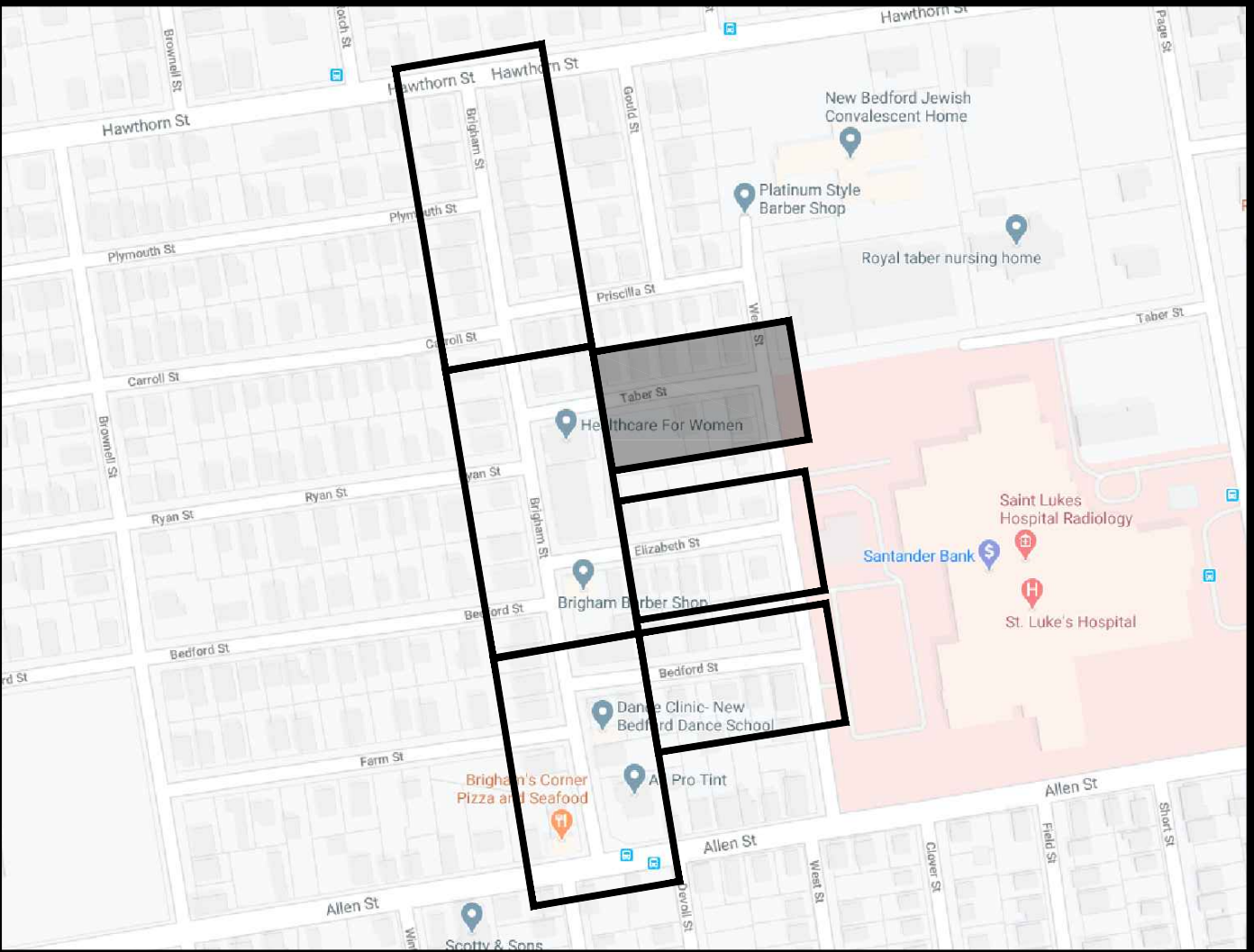
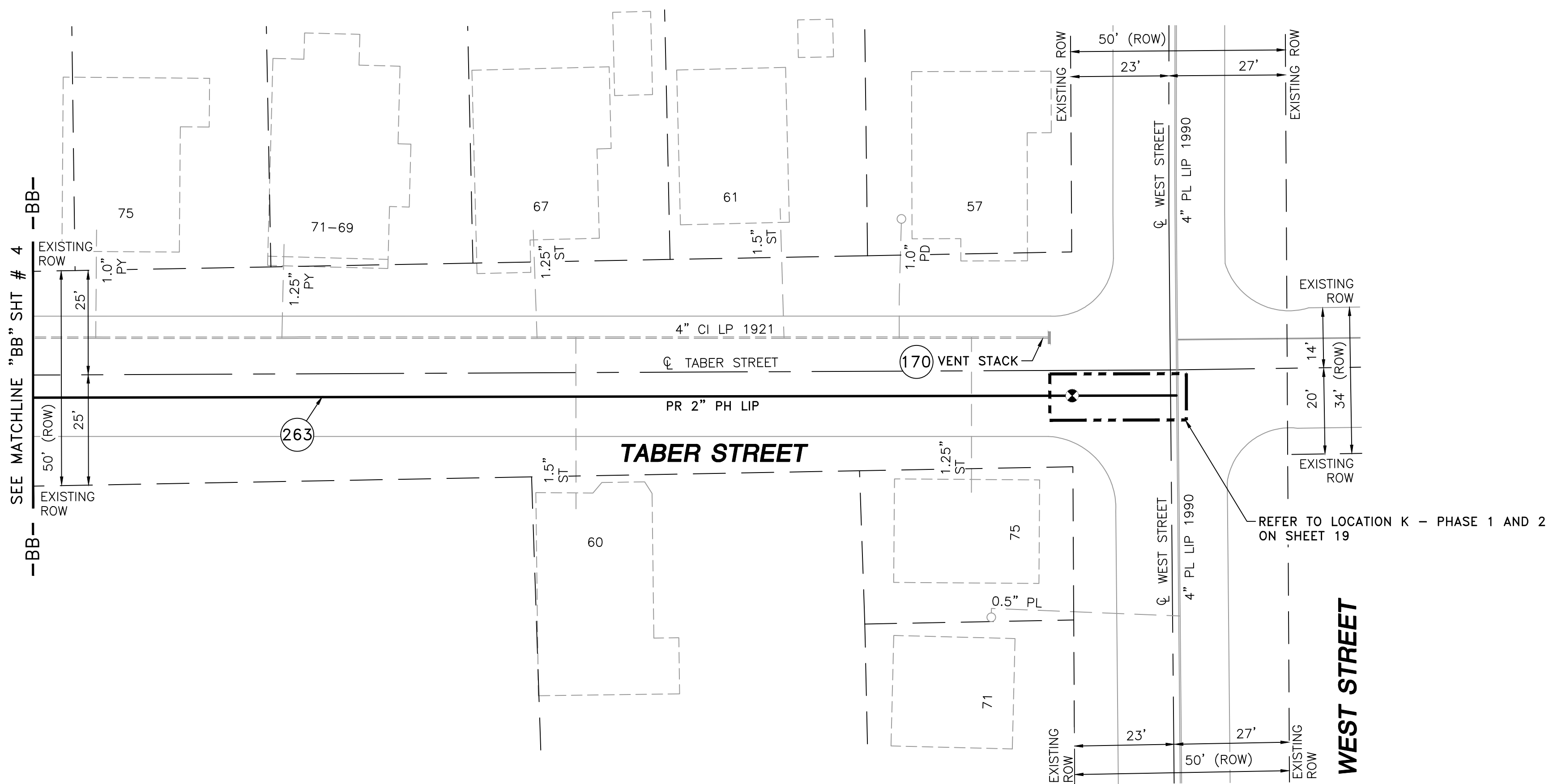
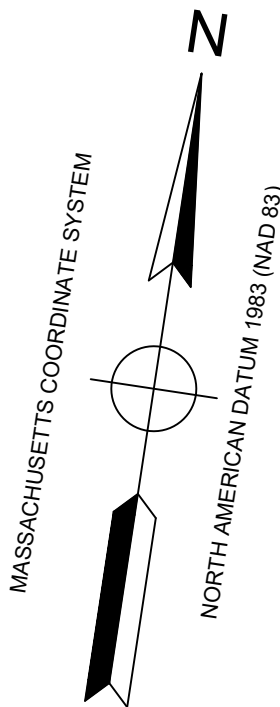


LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
INSTALLATION PLAN			
SCALE: 1"=20'		SHEET 5 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-05	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



LOCUS PLAN
NOT TO SCALE

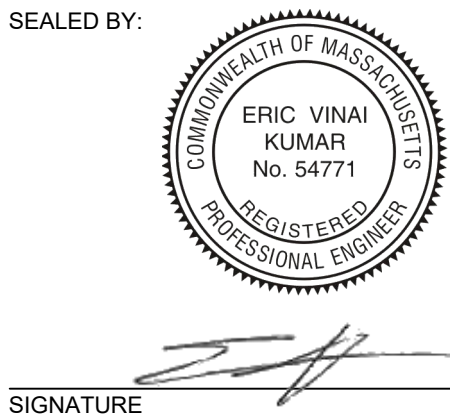
DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

- NOTES:
1. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
 2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
265'	2"	PH	INSTALL
235'	4"	CI	RETIRE

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04/09/2020



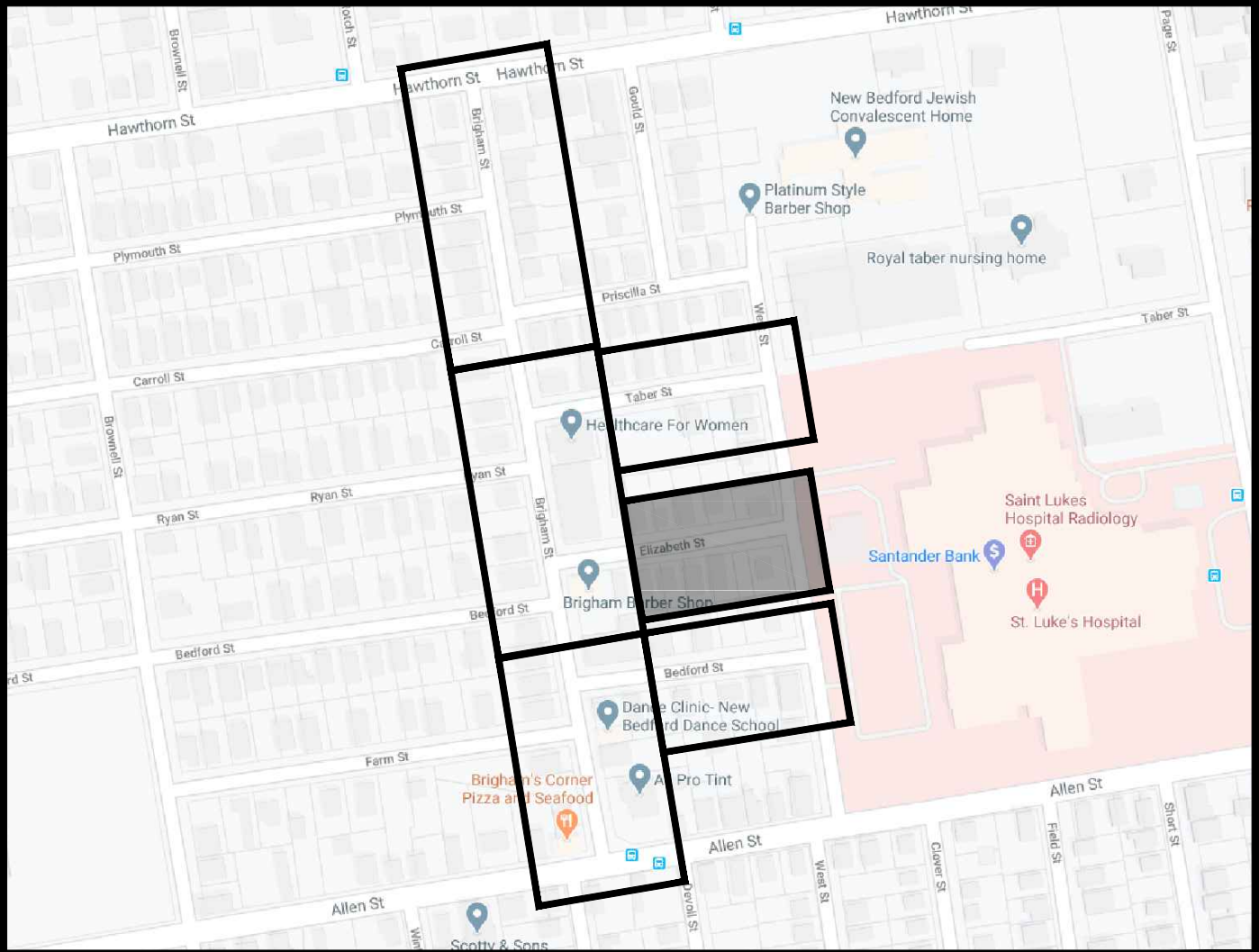
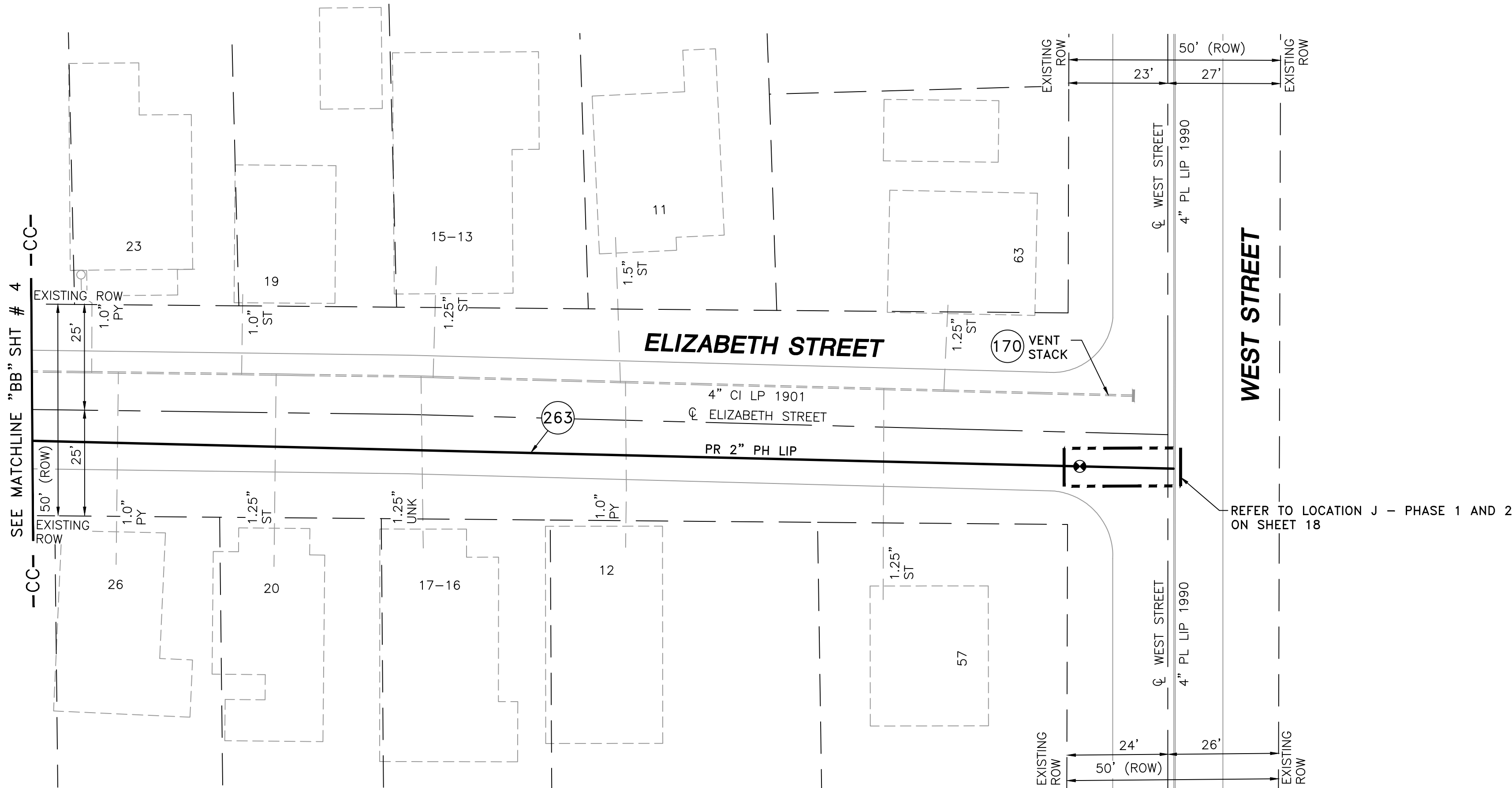
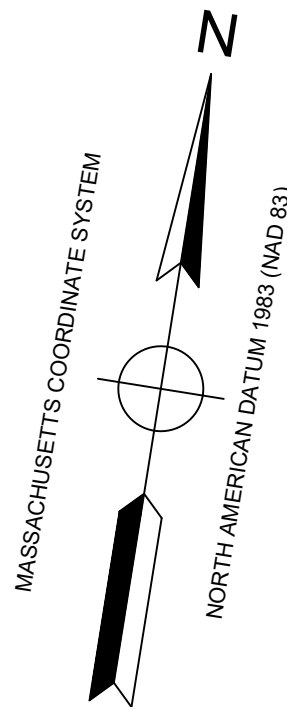
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04/09/2020
LICENSE EXPIRATION:
06/30/2020

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0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS			
INSTALLATION PLAN			
SCALE: 1"=20'		SHEET 6 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-06	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



LOCUS PLAN
NOT TO SCALE

DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

- NOTES:
1. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
 2. REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
270'	2"	PH	INSTALL
260'	4"	CI	RETIRED

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SIGNATURE

SEALED ON:

04/09/2020

LICENSE EXPIRATION:

06/30/2020

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0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

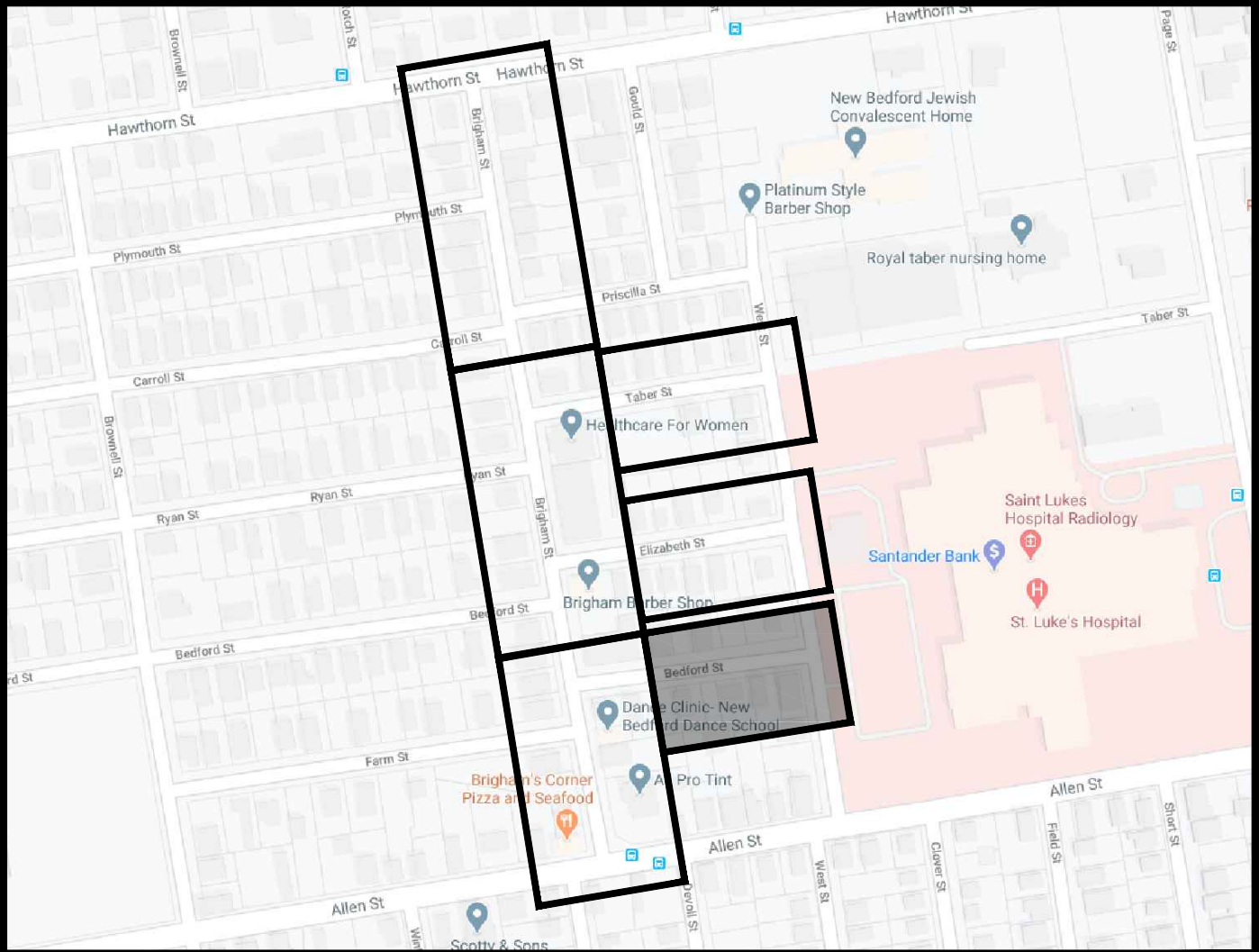
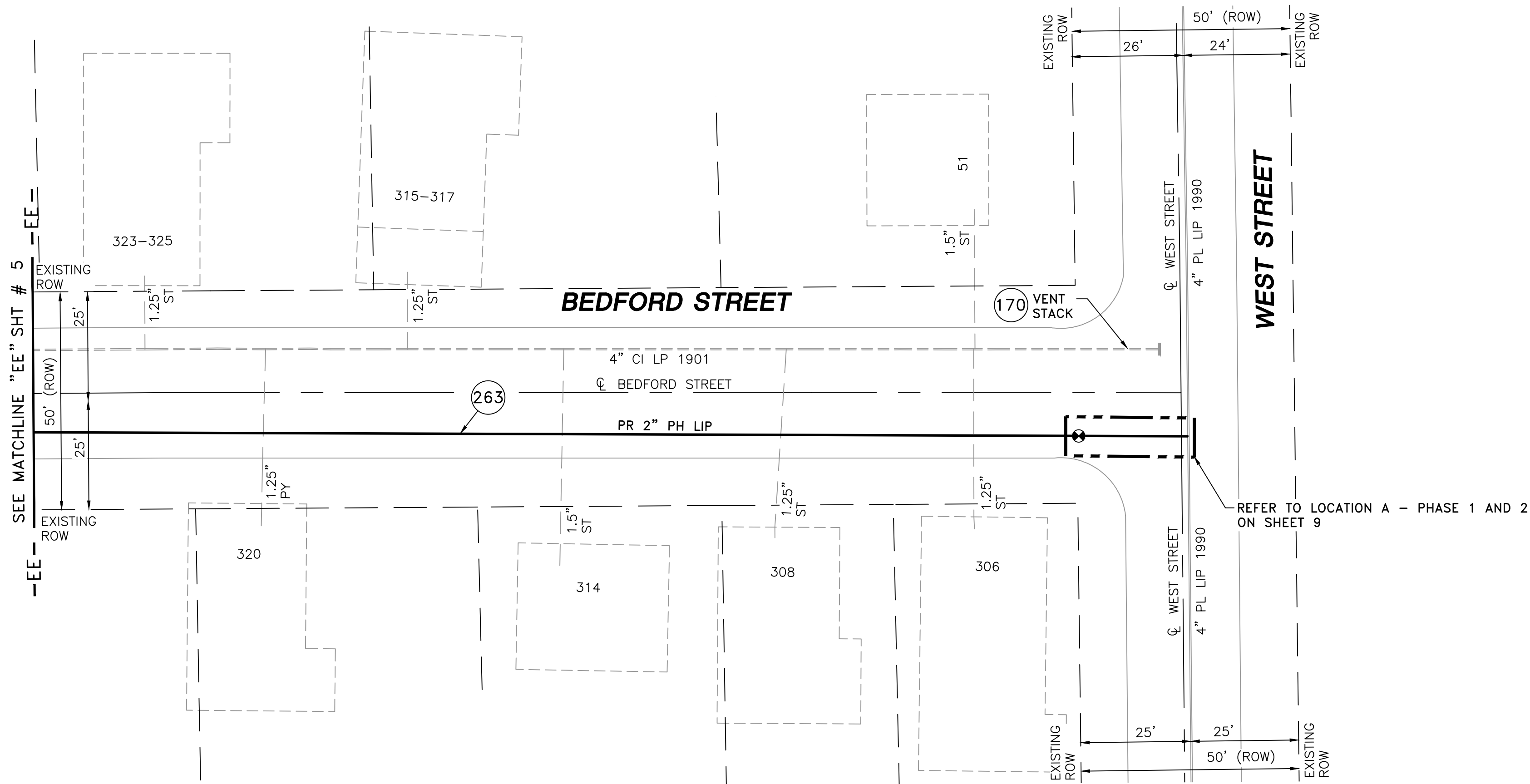
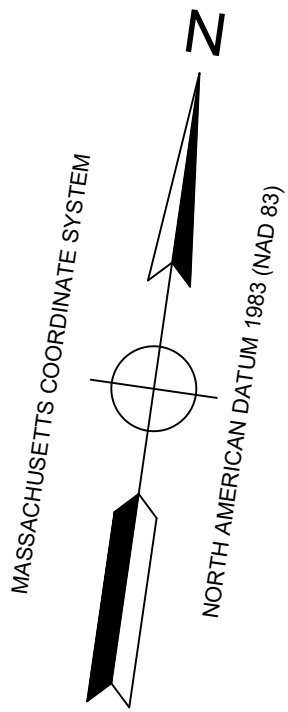
BRIGHAM STREET MAIN RELAY
NEW BEDFORD, MASSACHUSETTS

INSTALLATION PLAN

SCALE: 1"=20'

SHEET 7 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-07	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



LOCUS PLAN
NOT TO SCALE

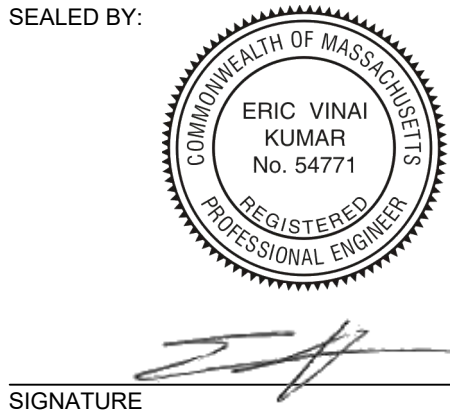
DRAWING LEGEND

	UTILITY POLE		EXISTING GAS MAIN
	LIGHT POLE		RETIRED GAS MAIN
	CATCH BASIN		PROPOSED GAS MAIN
	FIRE HYDRANT		EXISTING SERVICE
	UTILITY MANHOLE		RIGHT OF WAY
	ELECTRIC MANHOLE		ELECTRIC
	TELEPHONE MANHOLE		TELEPHONE
	WATER MANHOLE		WATER
	SANITARY MANHOLE		SANITARY SEWER
	STORM MANHOLE		STORM SEWER
	EXISTING REDUCER		PROPOSED REDUCER
	EXISTING CAP		PROPOSED CAP
	EXISTING VALVE		PROPOSED VALVE
	EXISTING COUPLING		PROPOSED COUPLING

- NOTES:
- CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION.
 - REFER TO GENERAL NOTES AND SCHEDULE OF MATERIALS ON SHEET #2.

LENGTH	SIZE	MATERIAL	DESCRIPTION
265'	2"	PH	INSTALL
260'	4"	CI	RETIRE

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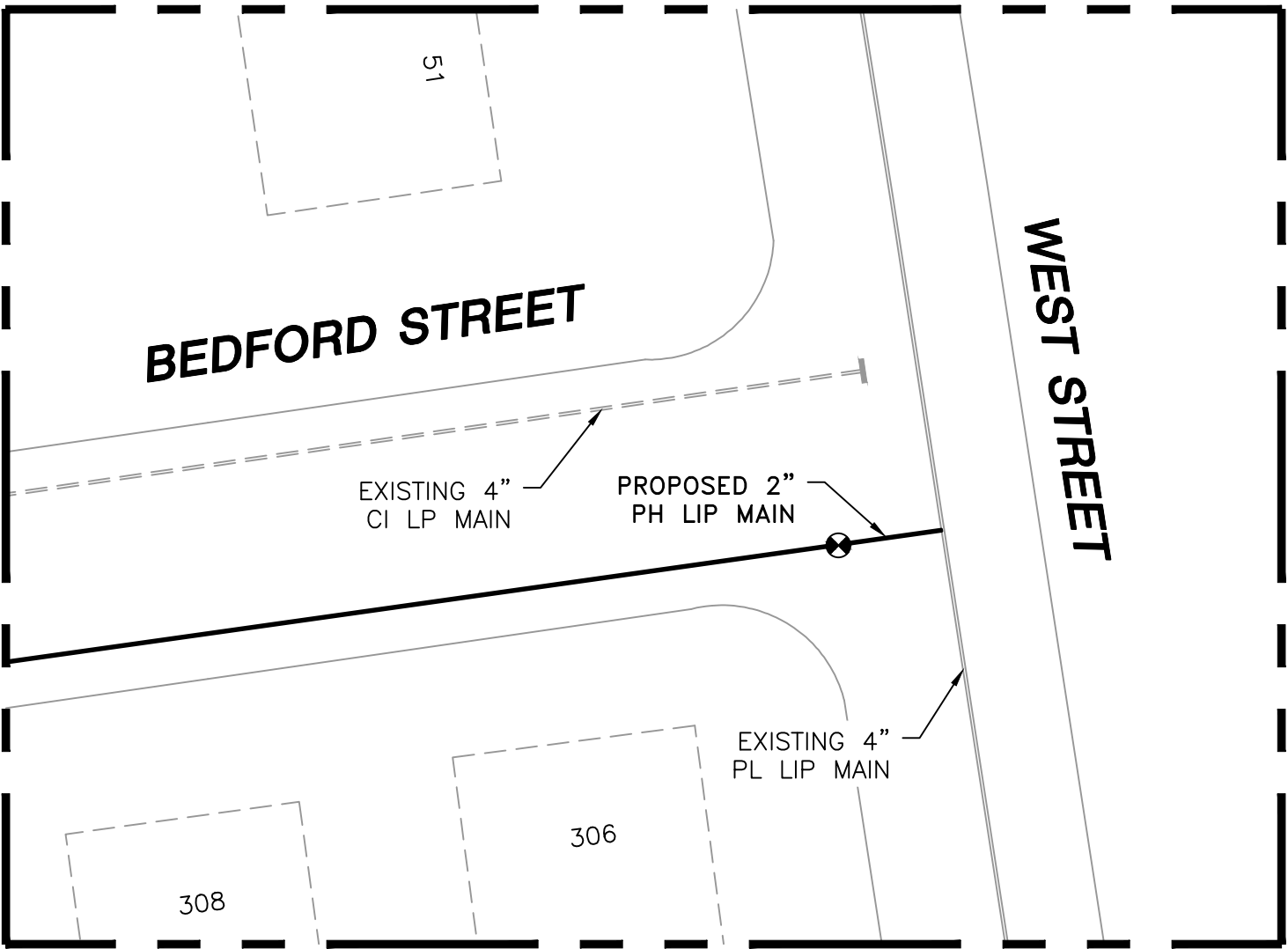
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LICENSE EXPIRATION:
06/30/2020

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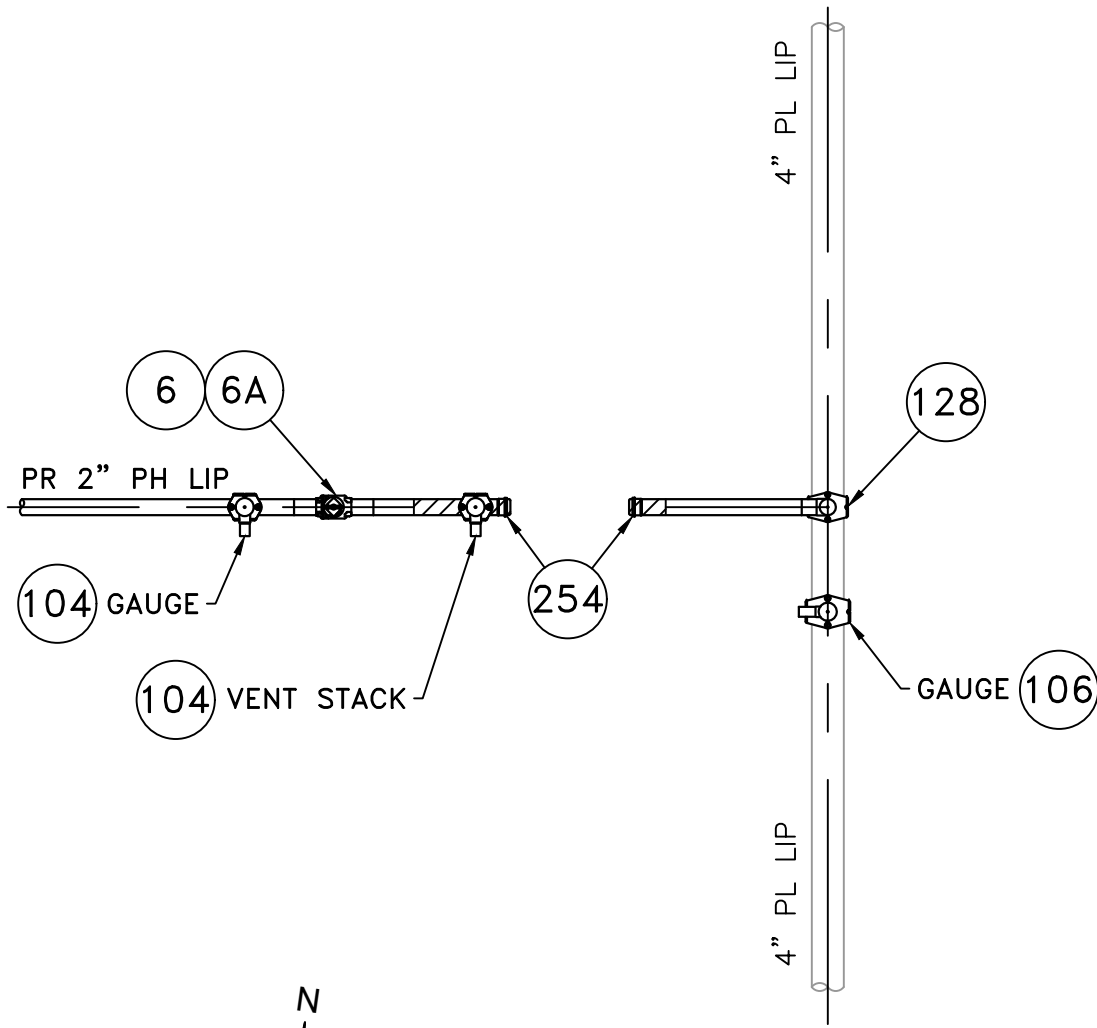
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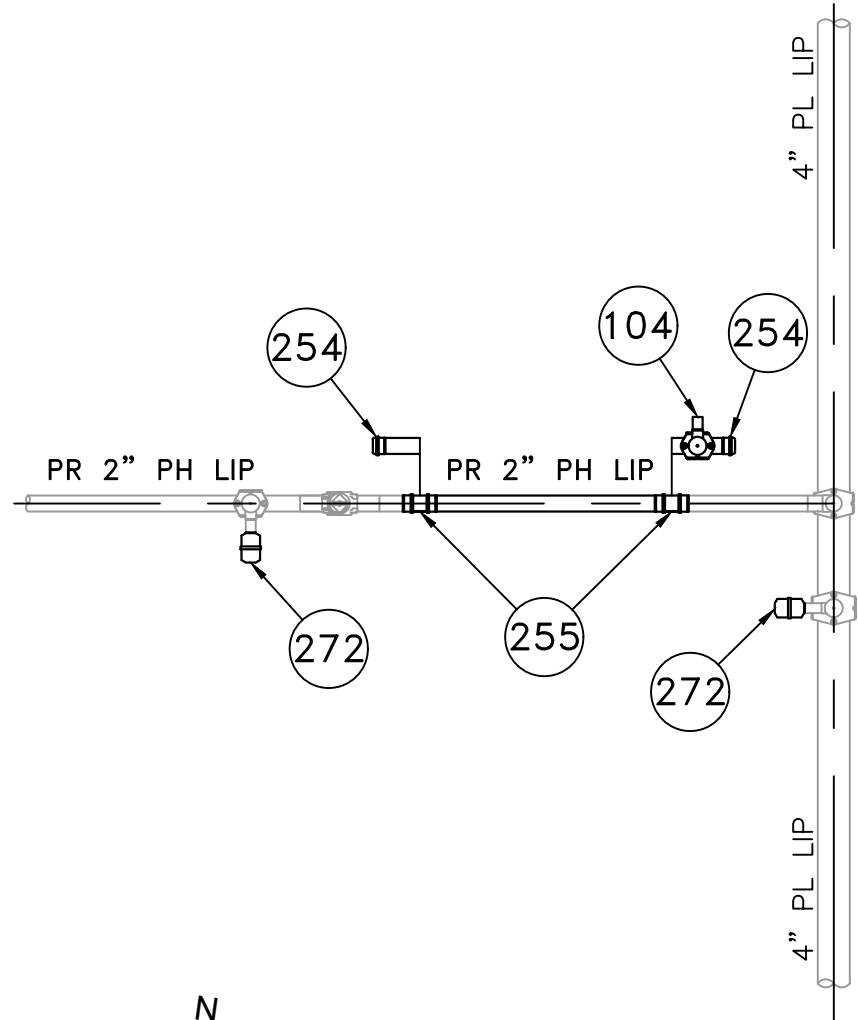
0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY NEW BEDFORD, MASSACHUSETTS			
INSTALLATION PLAN			
SCALE: 1"=20'		SHEET 8 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-08	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		



LOCATION A - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #8)



LOCATION A - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #8)




LOCATION A - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #8)

BRIGHAM STREET MAIN RELAY - LOCATION A - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
6	1	2"	562087	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
6A	1	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	
104	3	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
106	1	4" X 1"	560781	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
128	1	4" X 2"	584304	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513


NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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SEALED ON:

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LICENSE EXPIRATION:

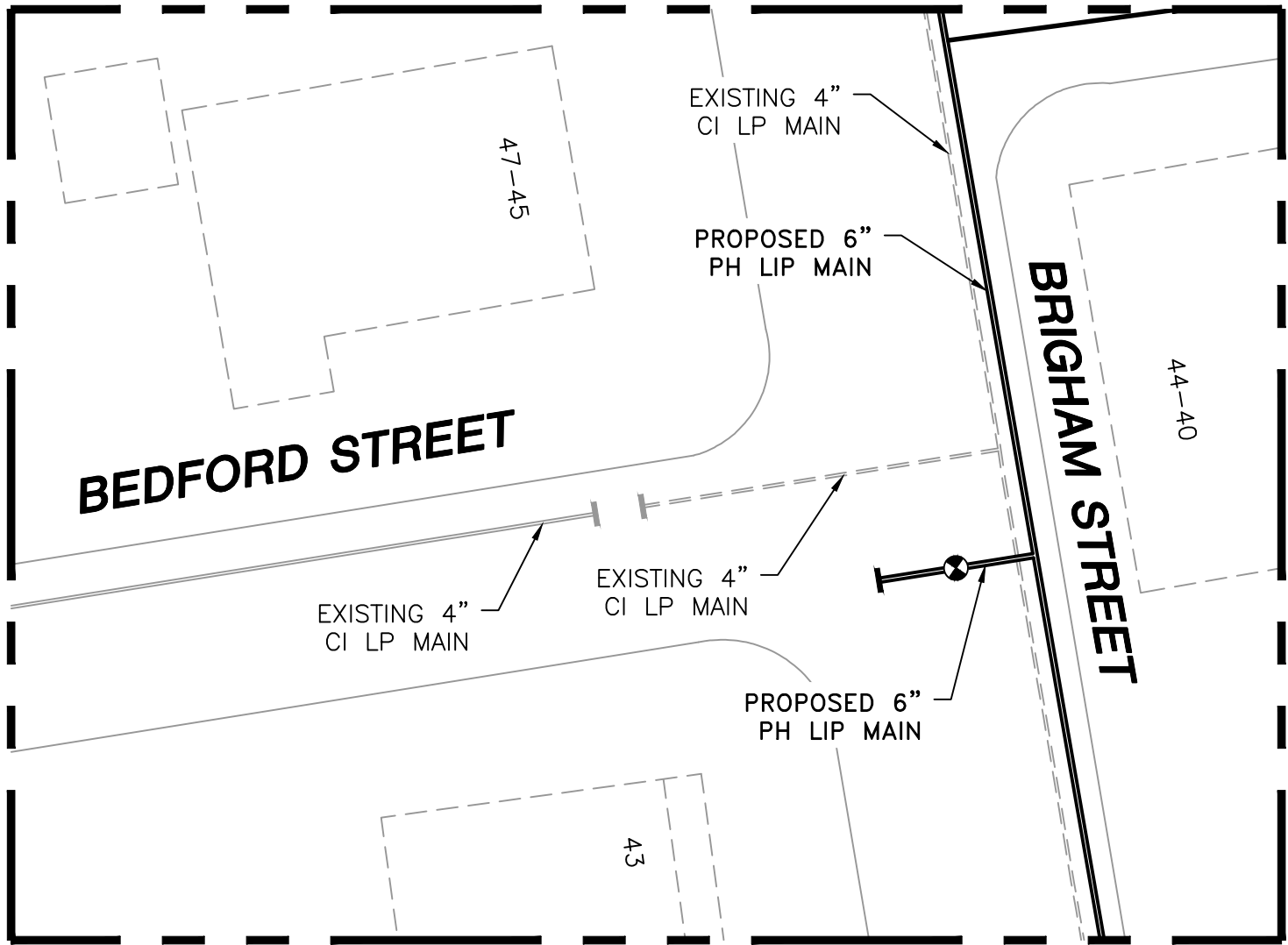
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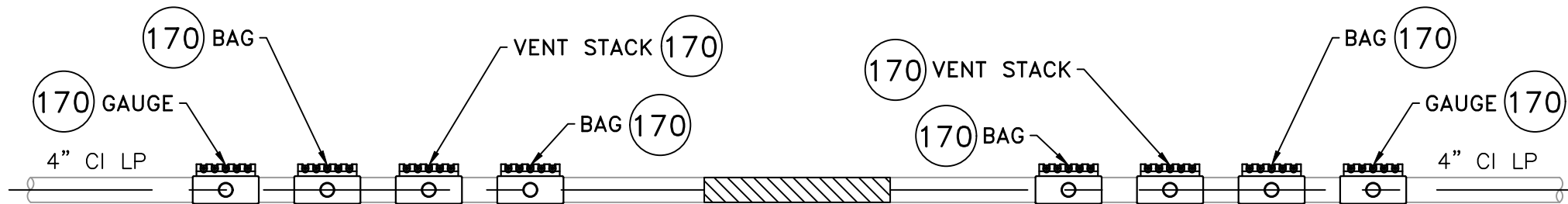

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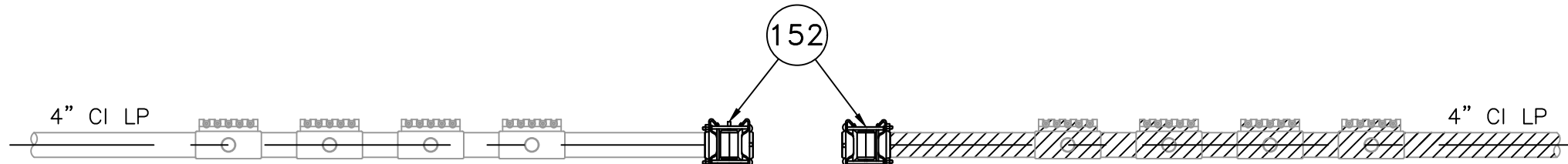
0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP
REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
LOCATION A - PHASE 1, 2 AND SCHEDULE OF MATERIALS			
SCALE: AS NOTED		SHEET 9 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER	REV. NO.
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-09	0



LOCATION B - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #4)



LOCATION B - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #4)



LOCATION B - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #4)

BRIGHAM STREET MAIN RELAY - LOCATION B - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
152	2	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	8	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	

0	ISSUED FOR CONSTRUCTION	04/09/2020	ZS/AB/EK
NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION B - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED SHEET 10 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-10	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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04/09/2020

LICENSE
EXPIRATION:

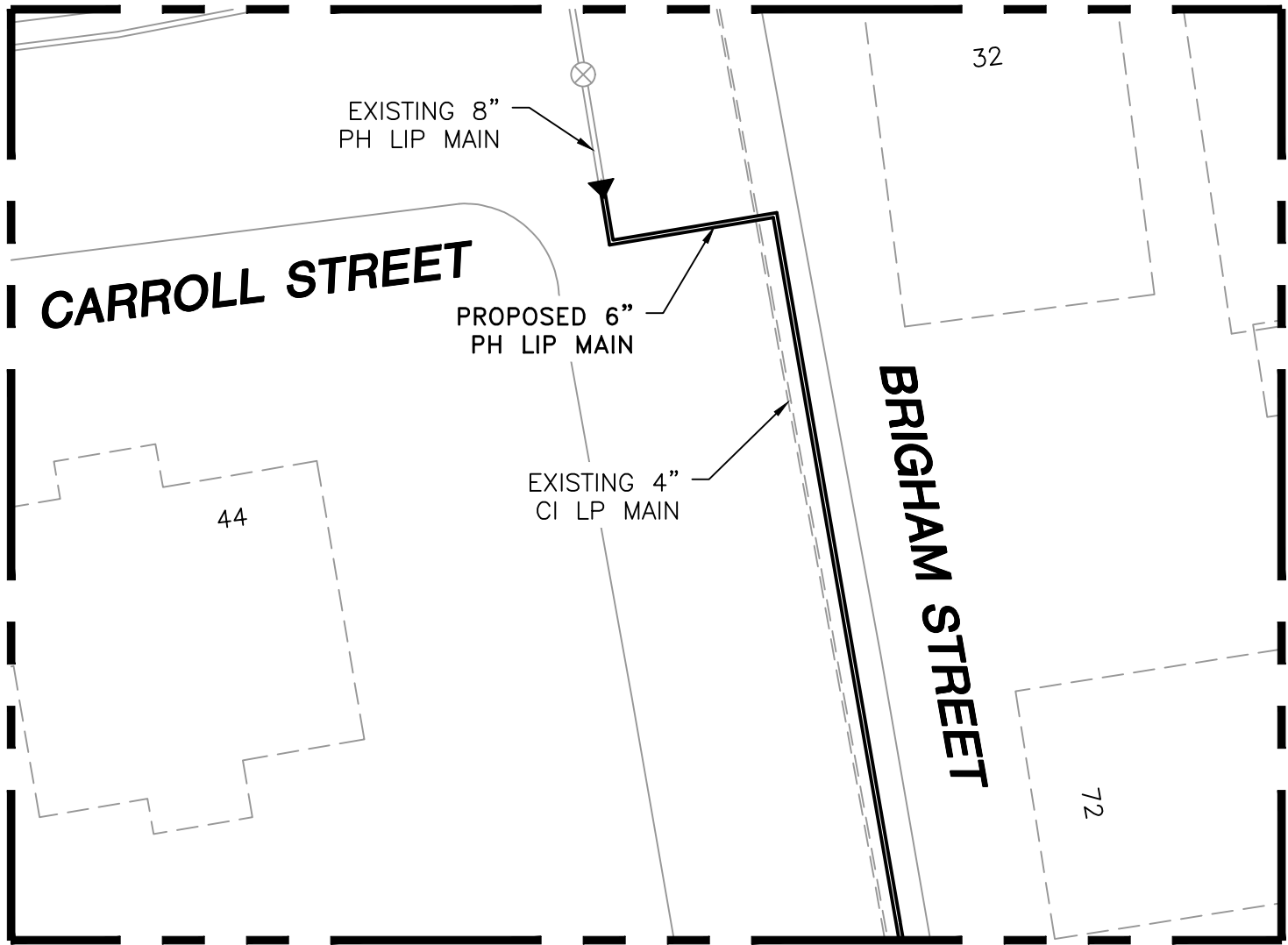
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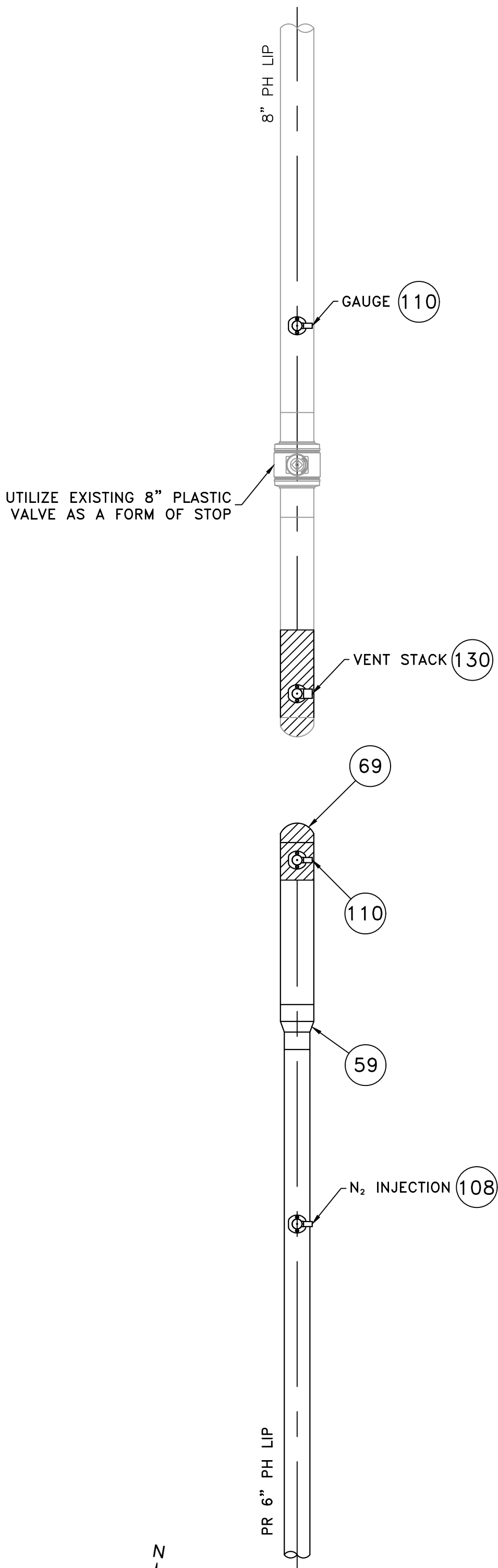
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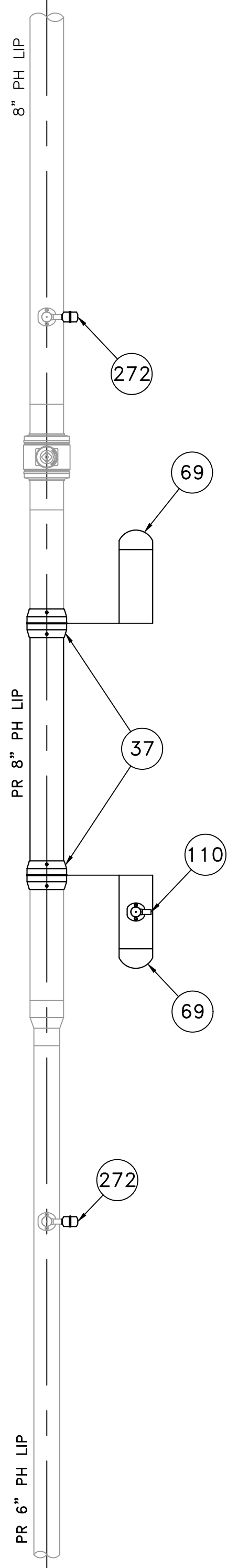
FIELD VERIFY DIMENSIONS
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LOCATION C - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #3)



LOCATION C - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #3)



LOCATION C - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #3)

BRIGHAM STREET MAIN RELAY - LOCATION C - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
37	AS REQUIRED	8"	500857	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
59	1	8" X 6"	555596	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
69	AS REQUIRED	8"	542540	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
108	1	6" X 1"	560785	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
110	3	8" X 1"	560788	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
130	1	8" X 2"	577623	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION C - PHASE 1, 2 AND SCHEDULE OF MATERIALS

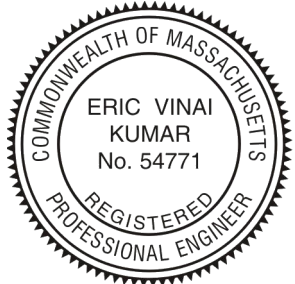
SCALE: AS NOTED SHEET 11 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-11	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020			

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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CONSTRUCTION
04/09/2020

SEALED BY:



SIGNATURE

SEALED ON:

04/09/2020

LICENSE
EXPIRATION:

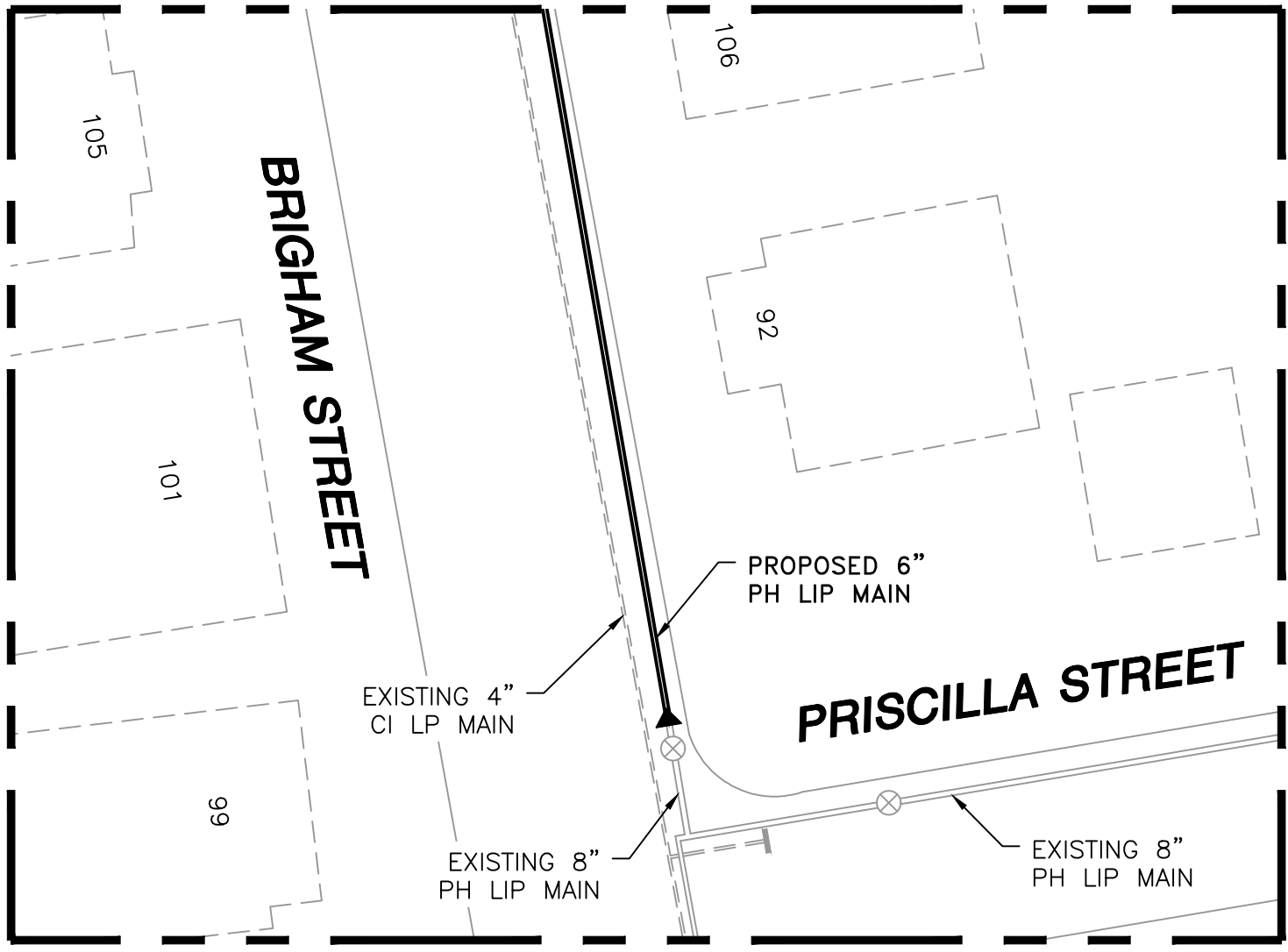
06/30/2020

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49-PART 192 OF MINIMUM FEDERAL SAFETY
STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
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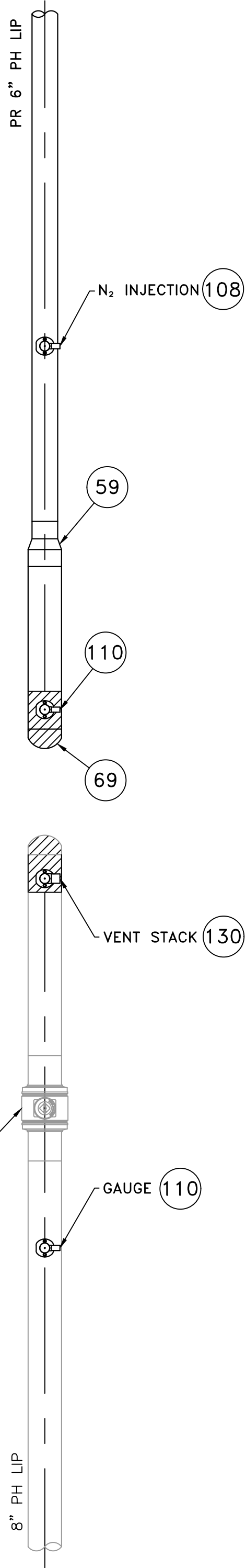
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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

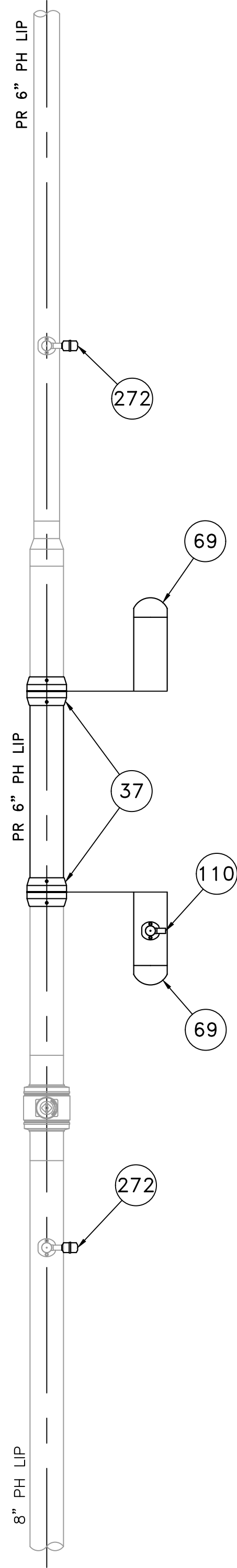


LOCATION D - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #3)

UTILIZE EXISTING 8" PLASTIC VALVE AS A FORM OF STOP



LOCATION D - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #3)



LOCATION D - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #3)

BRIGHAM STREET MAIN RELAY - LOCATION D - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
37	AS REQUIRED	8"	500857	COUPLING, ELECTROFUSION, IPS, HDPE 3408, ASTM D3350, ASTM F1055, COMPATIBLE FOR FUSION TO HDPE 3408/4710 PIPE. GFCP OR APPROVED EQUAL.	ASTM D3350
59	1	8" X 6"	555596	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
69	AS REQUIRED	8"	542540	CAP, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
108	1	6" X 1"	560785	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
110	3	8" X 1"	560788	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
130	1	8" X 2"	577623	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

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REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION D - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED SHEET 12 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-12	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		

NOTE:
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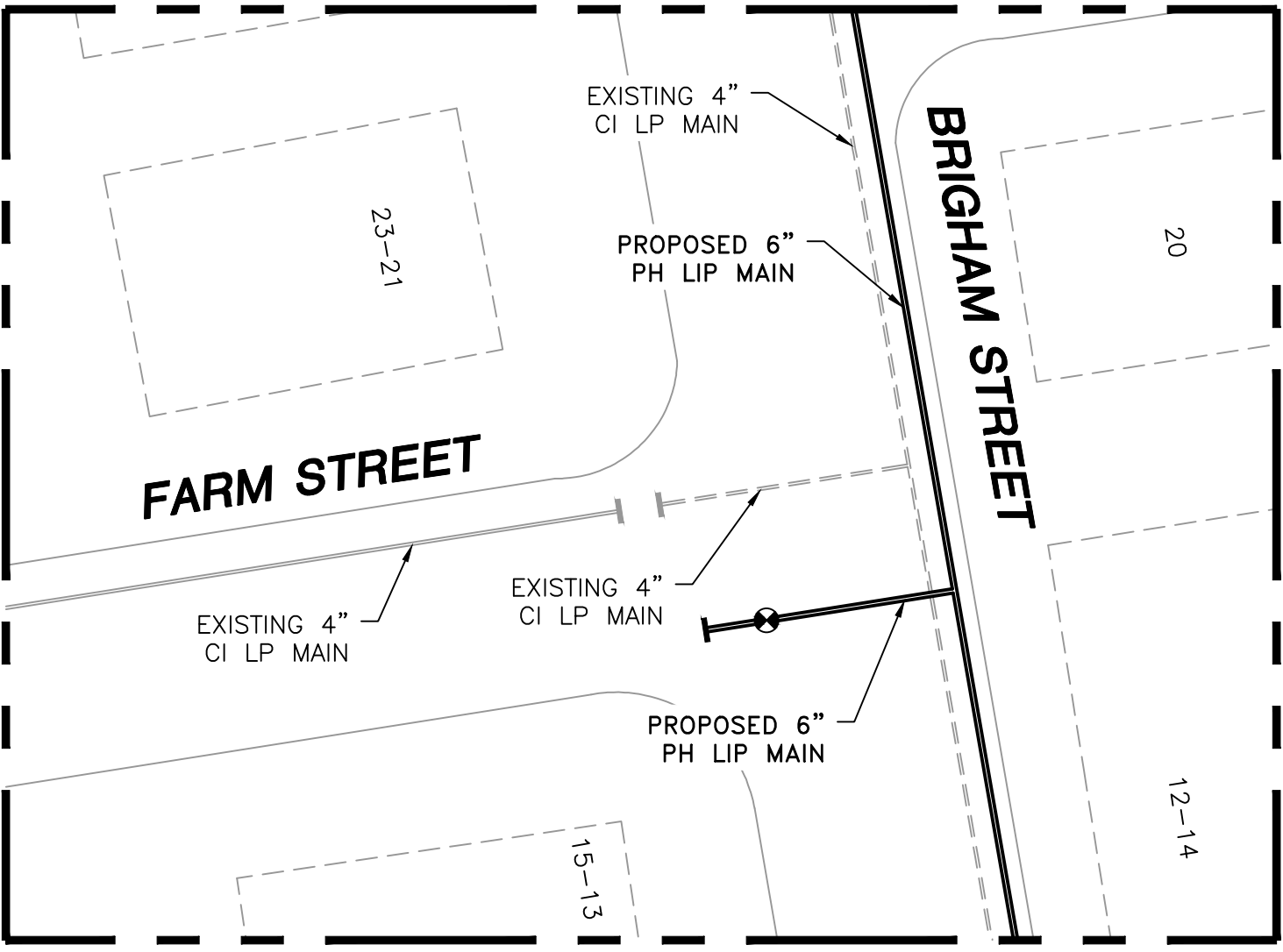
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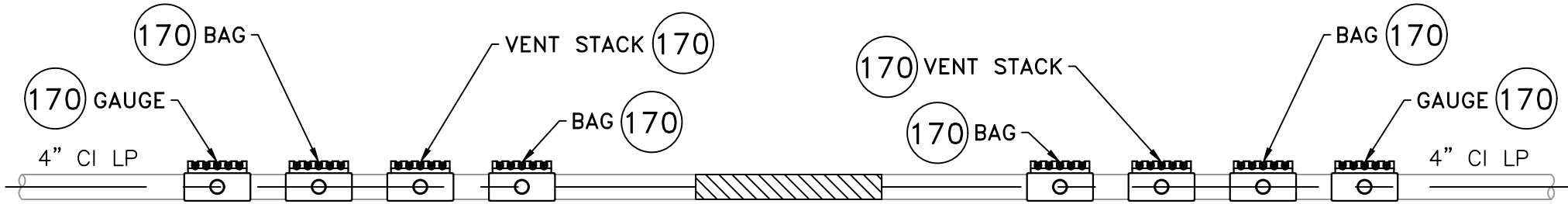
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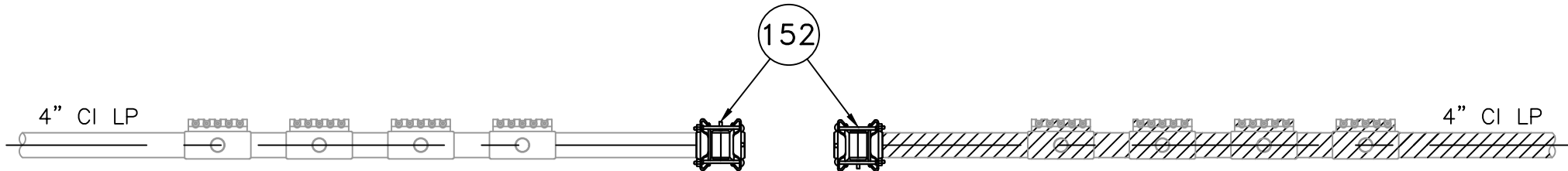
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION E - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #5)



LOCATION E - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #5)



LOCATION E - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #5)

BRIGHAM STREET MAIN RELAY- LOCATION E - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
152	2	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	8	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	

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REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION E - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED

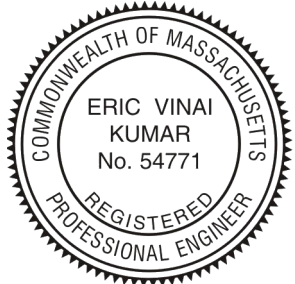
SHEET 13 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER	REV. NO.
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-13	0

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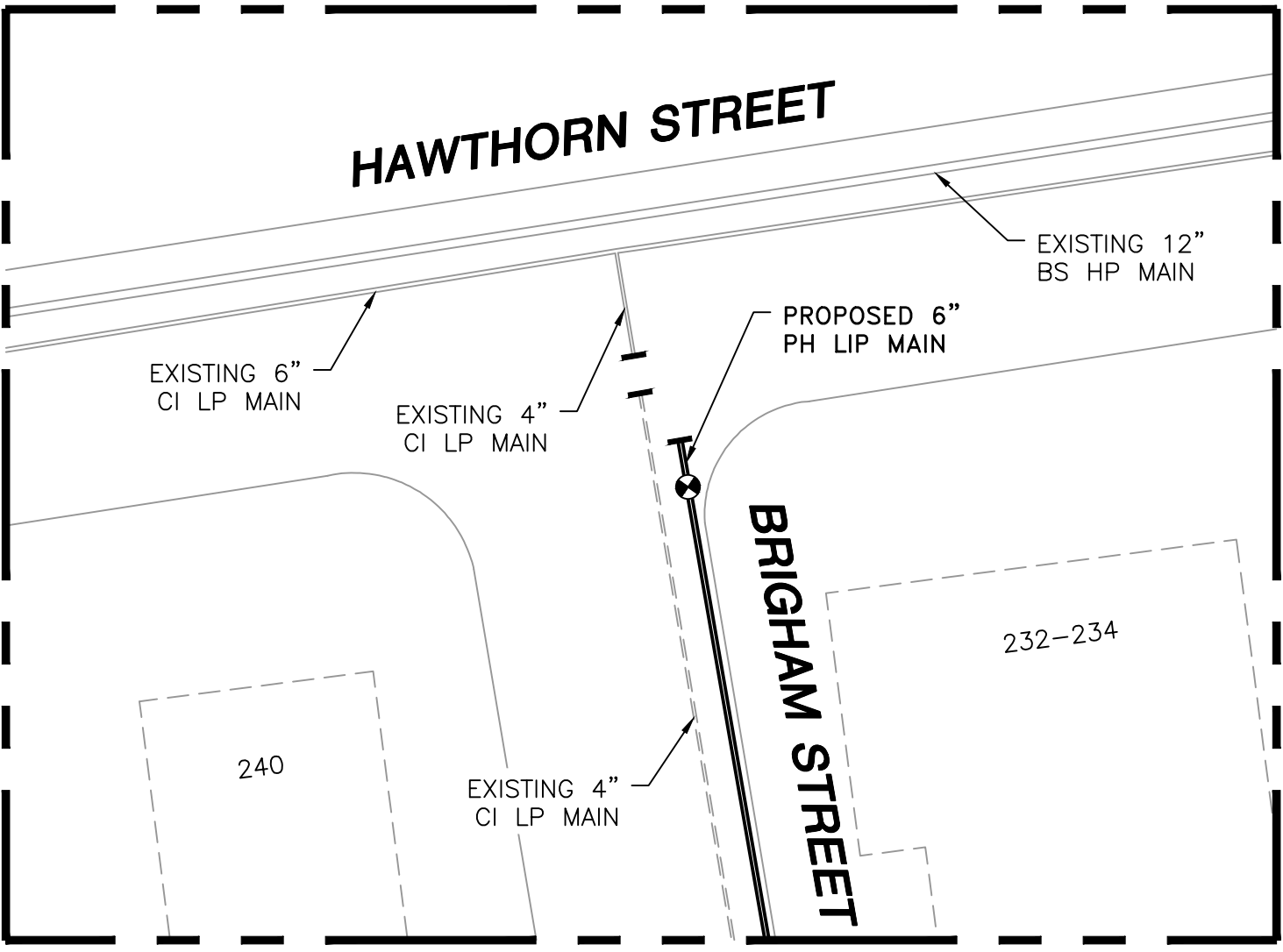
06/30/2020

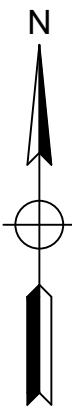
DESIGNED IN ACCORDANCE WITH TITLE
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STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS. LATEST EDITION.

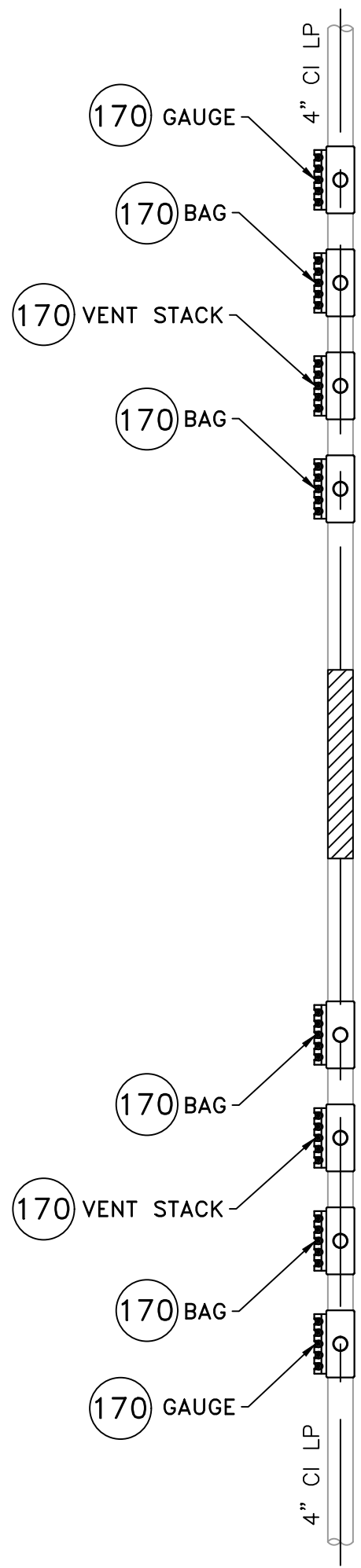
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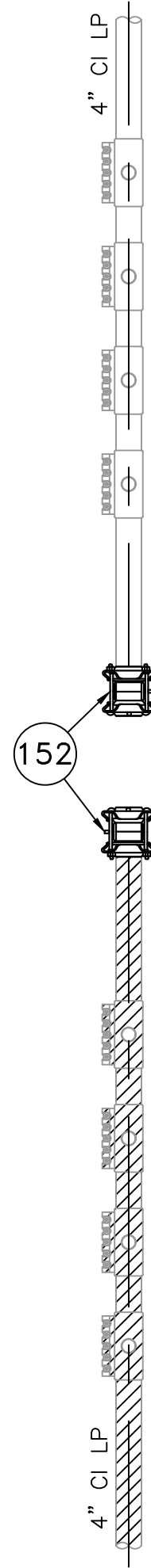
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION




 **LOCATION F - PLAN VIEW**
(SCALE: 1"=20')
(REFER TO SHEET #3)



 **LOCATION F - PHASE 1**
(SCALE: 1"=2')
(REFER TO SHEET #3)



 **LOCATION F - PHASE 2**
(SCALE: 1"=2')
(REFER TO SHEET #3)

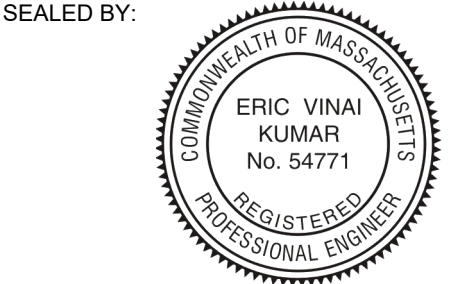
BRIGHAM STREET MAIN RELAY - LOCATION F - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
152	2	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	8	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
LOCATION F - PHASE 1, 2 AND SCHEDULE OF MATERIALS			
SCALE: AS NOTED		SHEET 14 OF 19	
DRAWN BY / DATE	CHECKED BY / DATE	SHEET NUMBER	REV. NO.
ZS 04/02/2020	AB 04/09/2020		
APPROVED BY / DATE			
EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-14	0

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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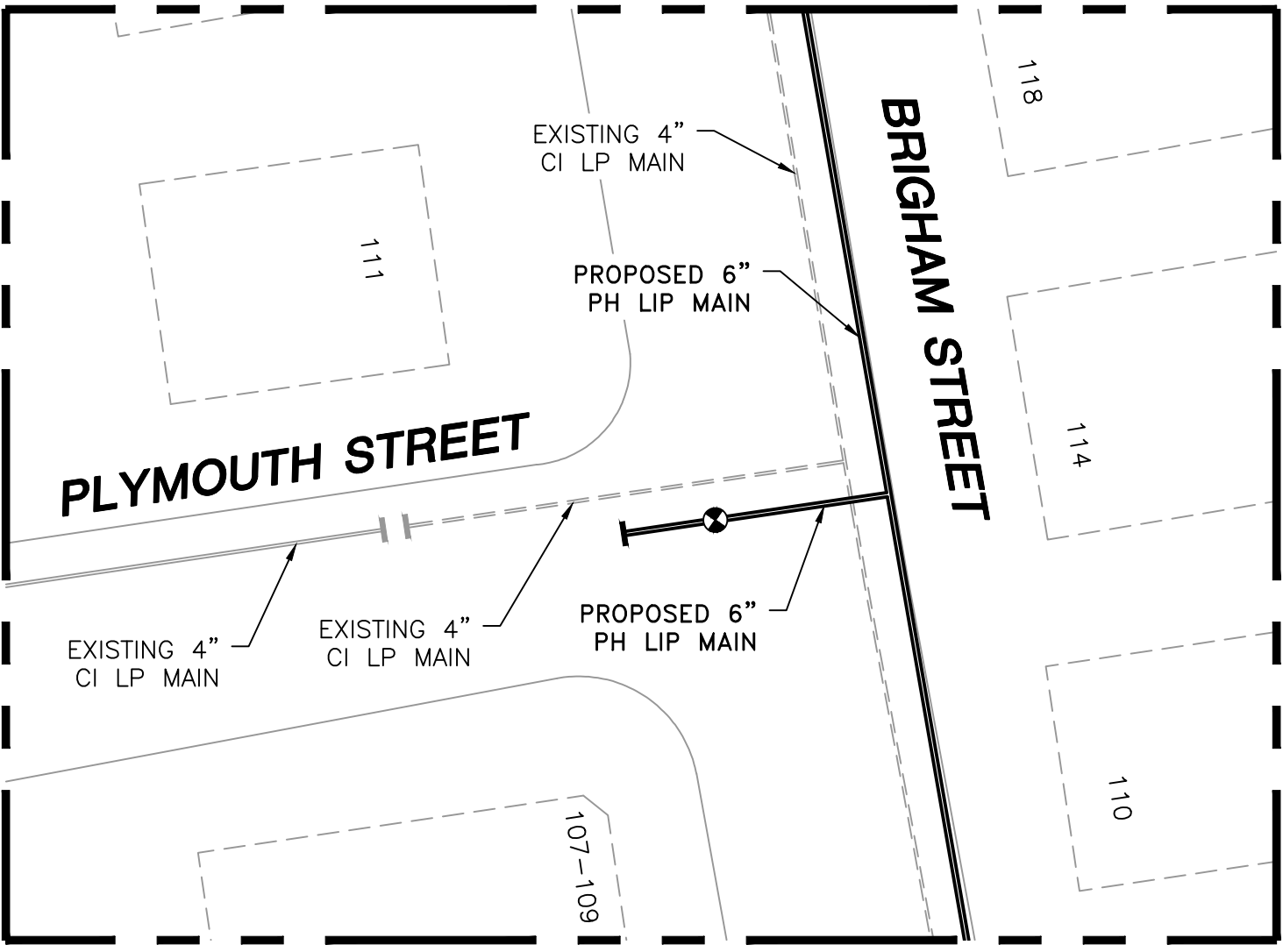
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EXPIRATION:

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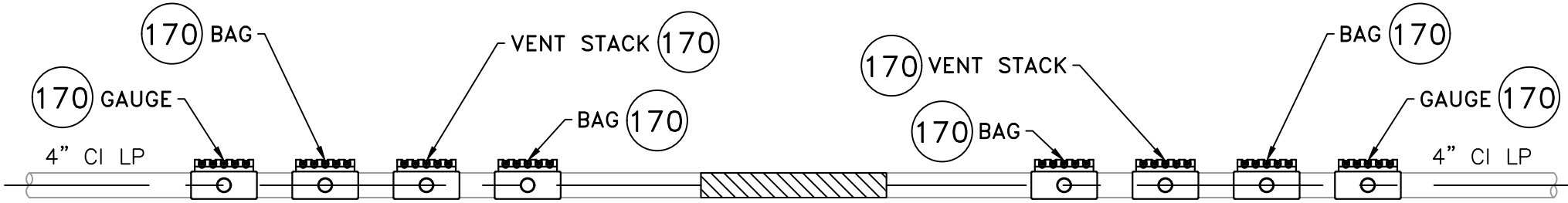
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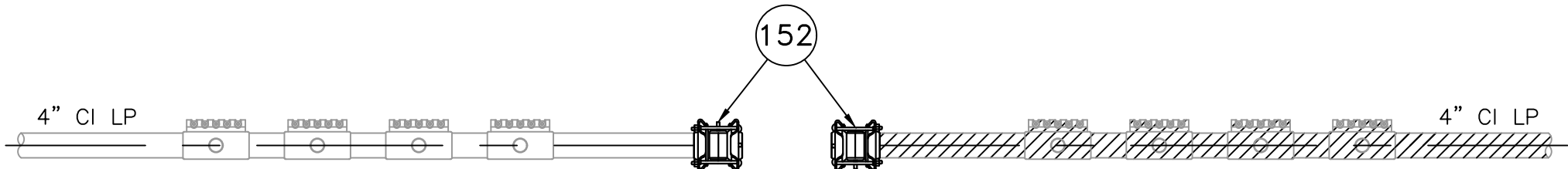
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION G - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #3)



LOCATION G - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #3)



LOCATION G - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #3)

BRIGHAM STREET MAIN RELAY - LOCATION G - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
152	2	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	8	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION G - PHASE 1, 2 AND SCHEDULE OF MATERIALS

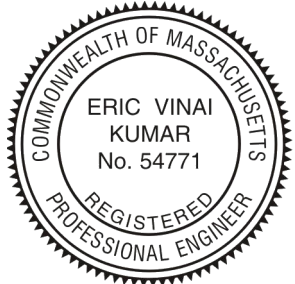
SCALE: AS NOTED SHEET 15 OF 19

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APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-15	0

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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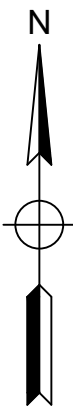
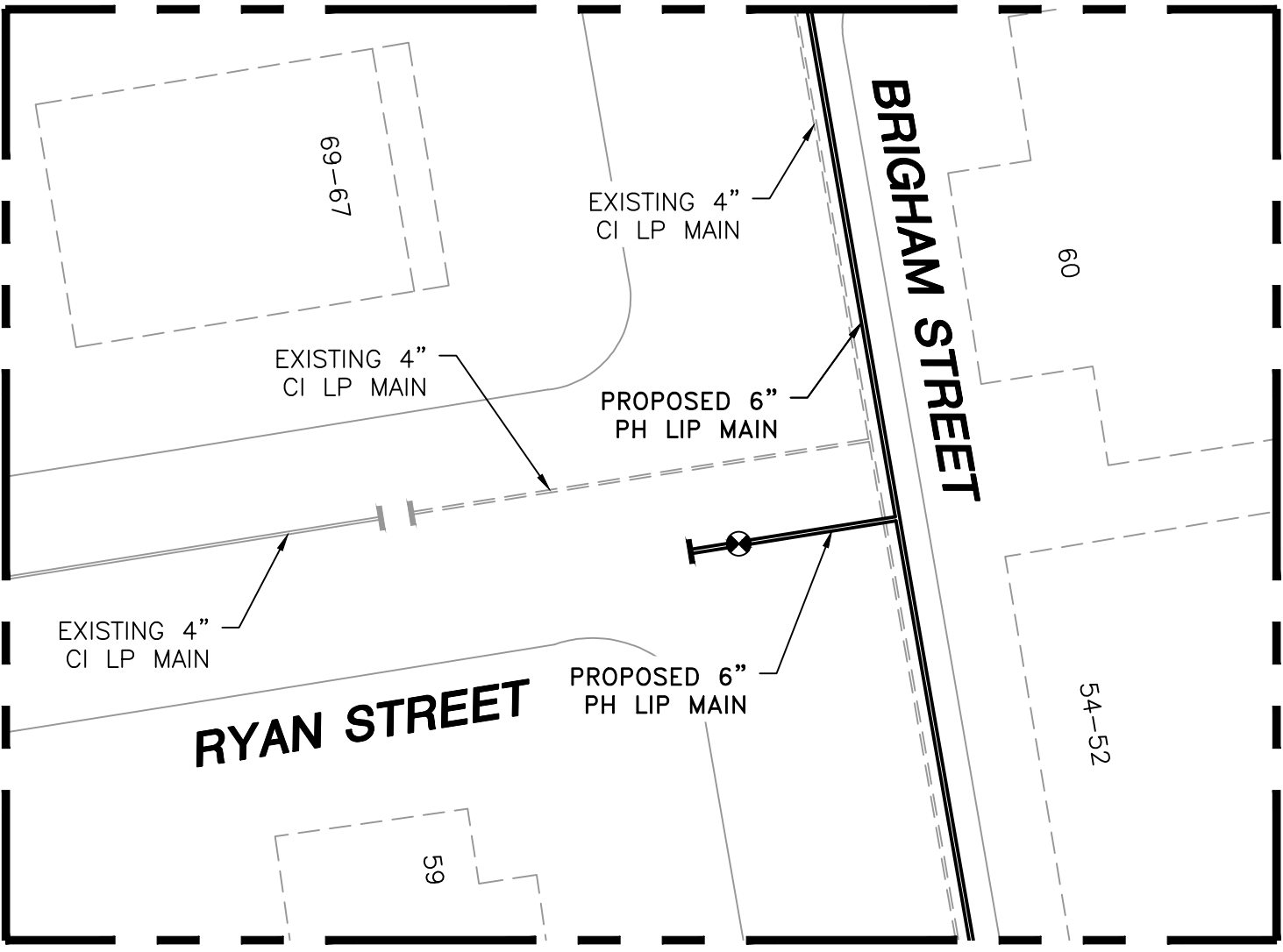
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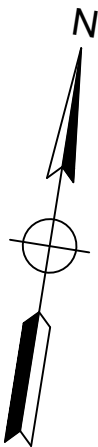
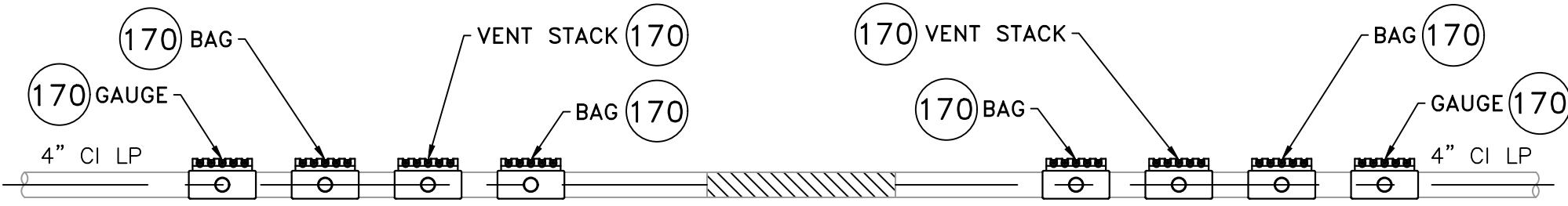
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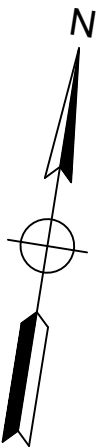
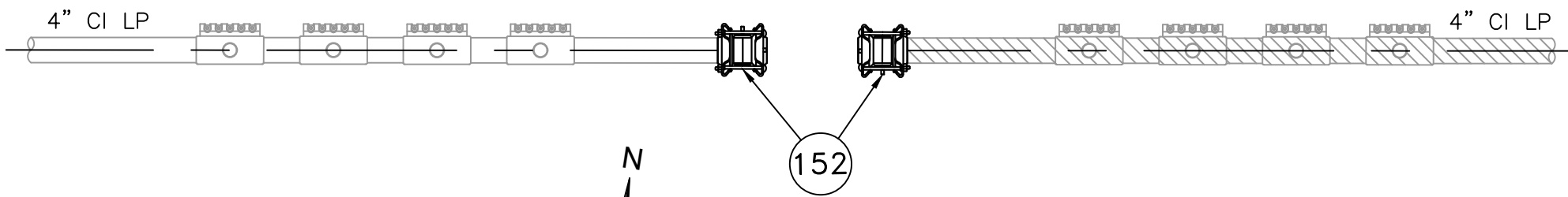
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION H - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #4)



LOCATION H - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #4)



LOCATION H - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #4)

BRIGHAM STREET MAIN RELAY - LOCATION H - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
152	2	4"	578128	END CAP, BOLTED MECHANICAL, CIP. SMITH-BLAIR MAXI-GRIP OR APPROVED EQUAL	
170	8	4" x 2"	543028	BAND CLAMP, WITH WELDED 2" FNPT SERVICE OUTLET, 304L SS SINGLE SECTION BAND AND GAP BRIDGES, SS STUDS WITH TEFLON COATED HEX NUTS, COMPLETELY LINED WITH NITRILE RUBBER GASKET. MUELLER 540 SERVI-SEAL OR APPROVED EQUAL. COMPLETE WITH PLUG.	

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION H - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED

SHEET 16 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER	REV. NO.
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-16	0

NOTE:
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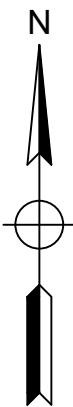
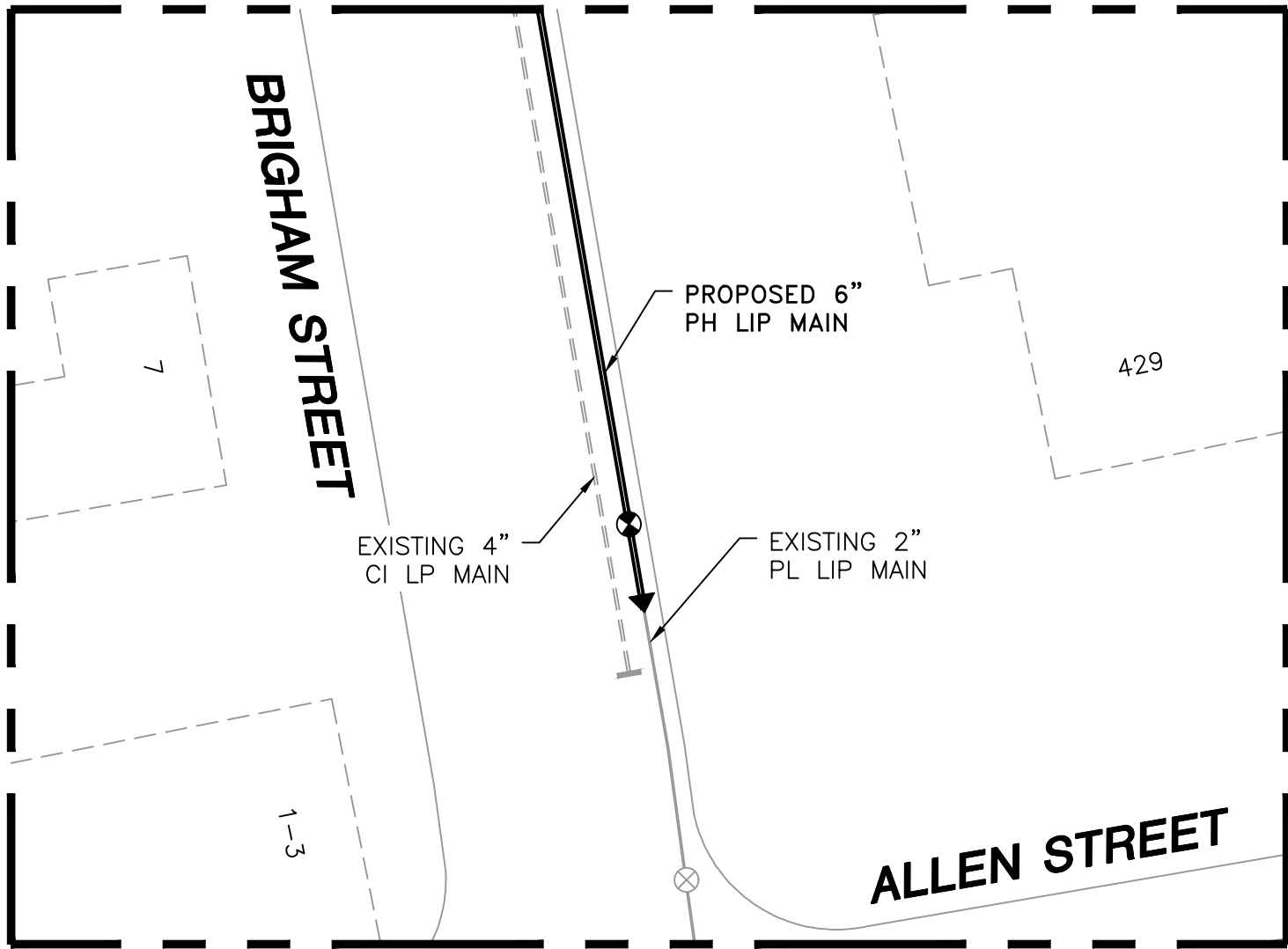
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SYSTEMS, LATEST EDITION.

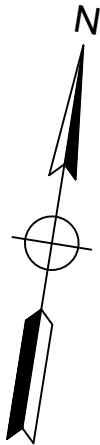
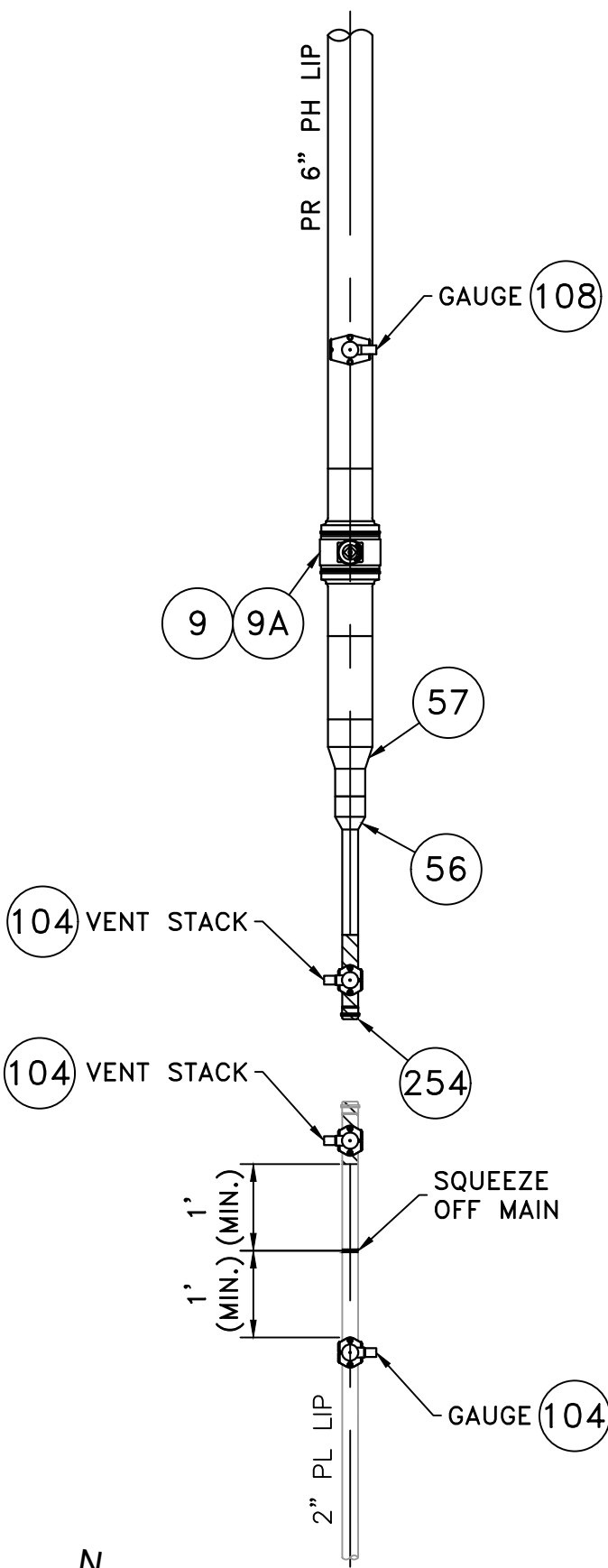
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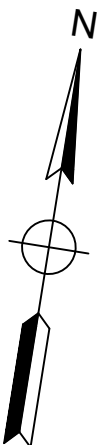
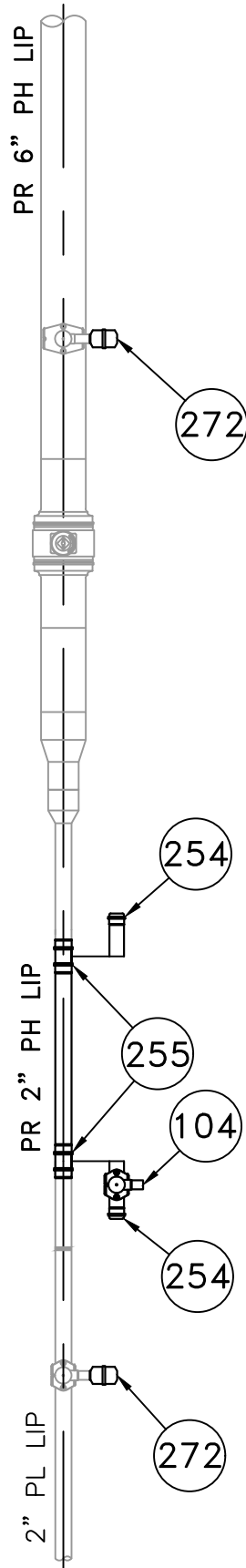
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION I - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #5)



LOCATION I - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #5)



LOCATION I - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #5)

BRIGHAM STREET MAIN RELAY - LOCATION I - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
9	1	6"	562078	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
9A	1	6"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	
56	1	4" X 2"	555593	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
57	1	6" X 4"	555594	REDUCER, BUTT FUSION, IPS, HDPE 4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261. PERFORMANCE PIPE OR APPROVED EQUAL.	ASTM D2513
104	4	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
108	1	6" X 1"	560785	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

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BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION I - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED SHEET 17 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-17	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		

NOTE:
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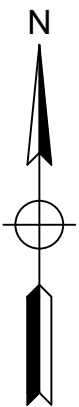
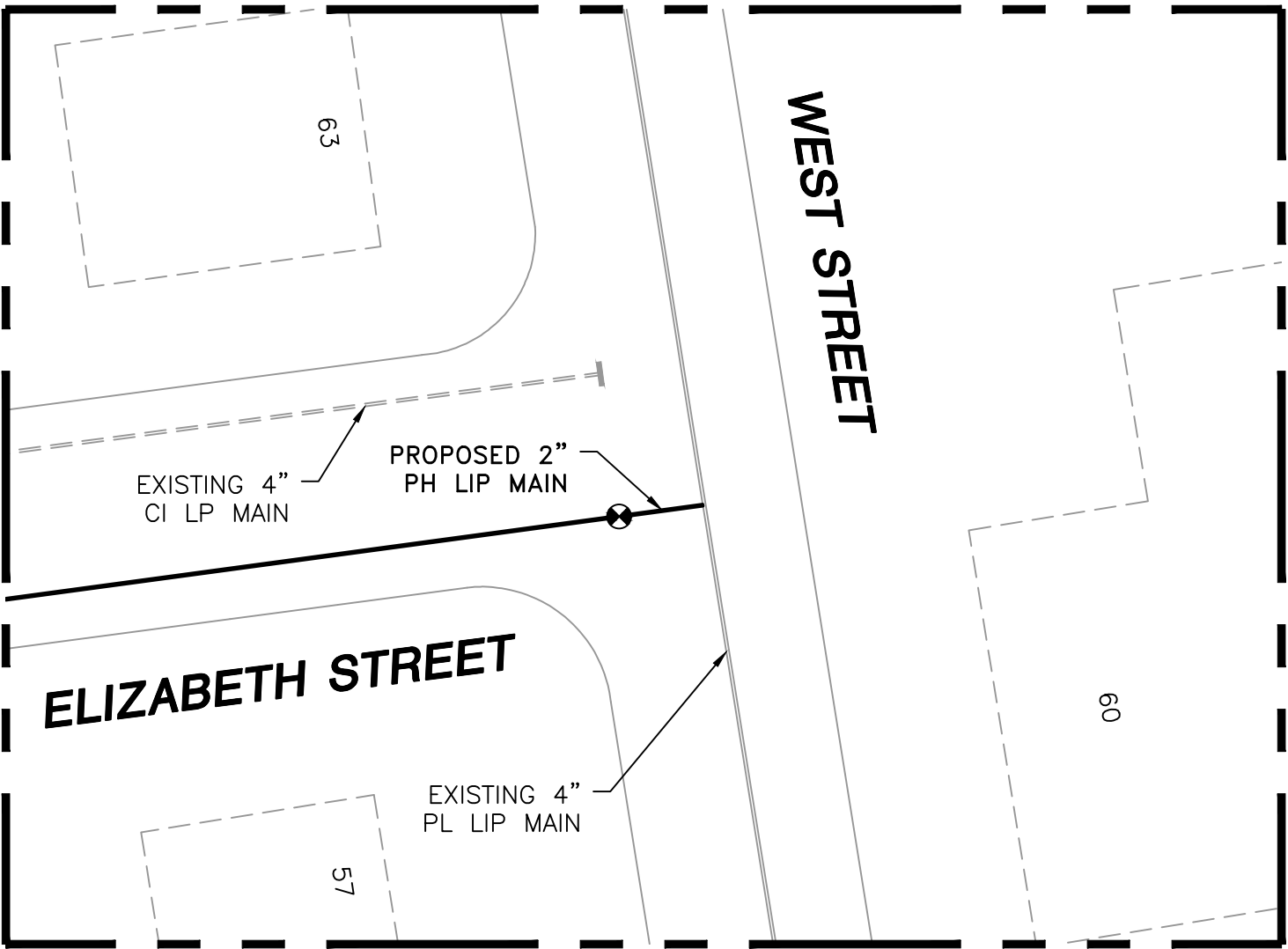
06/30/2020

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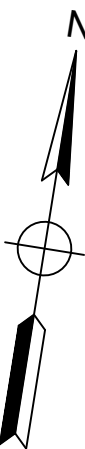
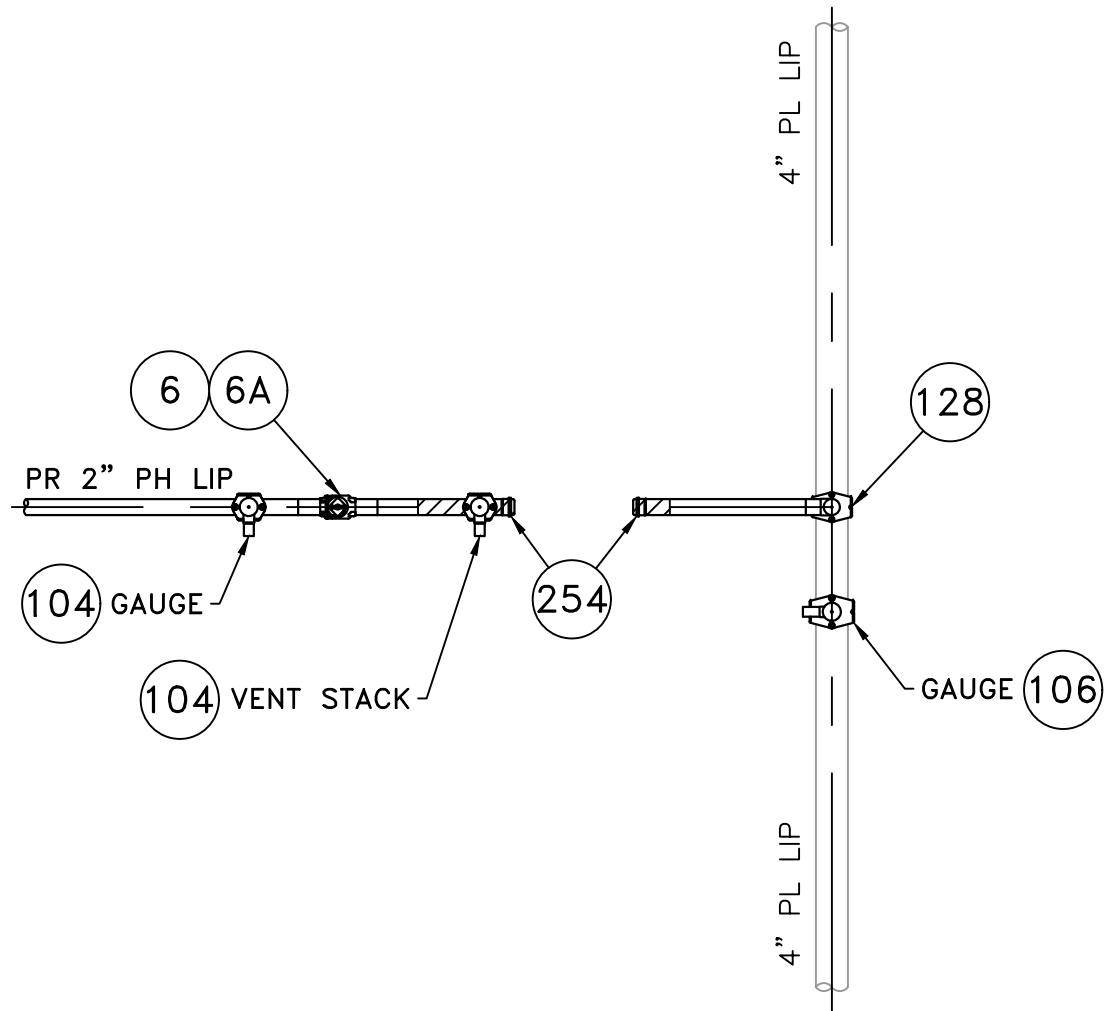
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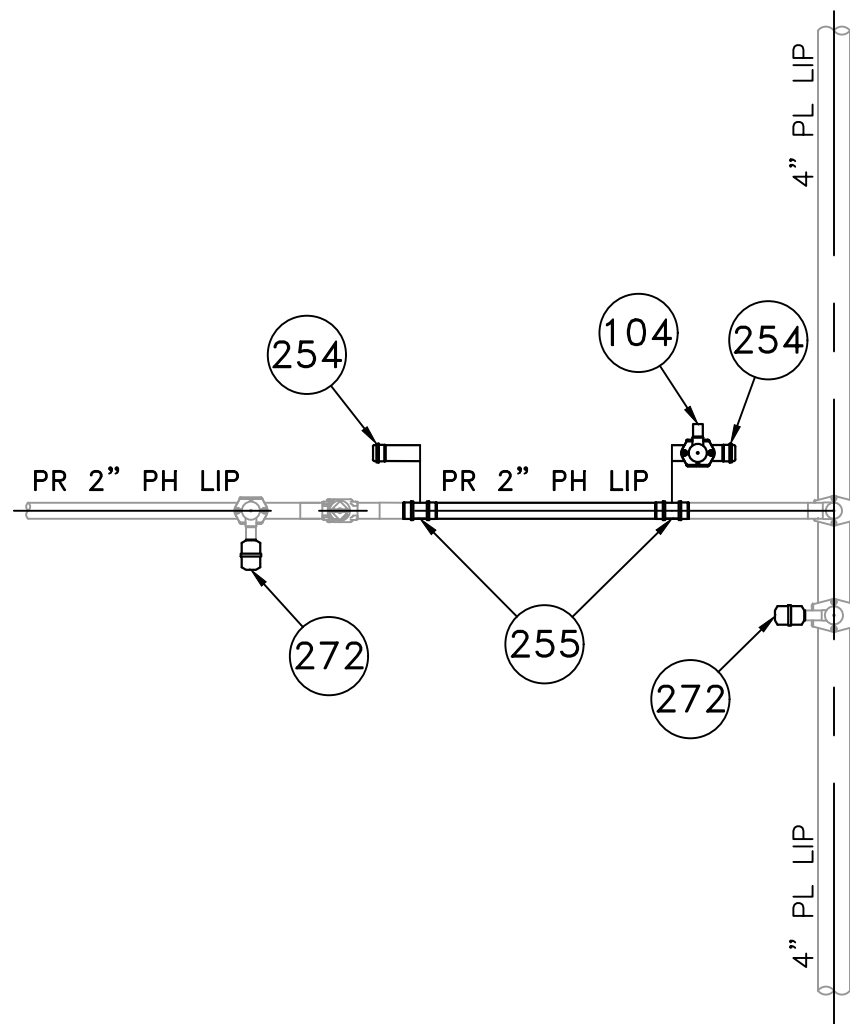
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION J - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #7)



LOCATION J - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #7)



LOCATION J - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #7)

BRIGHAM STREET MAIN RELAY - LOCATION J - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
6	1	2"	562087	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
6A	1	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	
104	3	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
106	1	4" X 1"	560781	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
128	1	4" X 2"	584304	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS

EVERSOURCE
ENERGY

BRIGHAM STREET MAIN RELAY

NEW BEDFORD, MASSACHUSETTS

LOCATION J - PHASE 1, 2 AND SCHEDULE OF MATERIALS

SCALE: AS NOTED SHEET 18 OF 19

DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER MA-20-PIP-NEB-053-100-18	REV. NO. 0
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0		

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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04/09/2020

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SIGNATURE

SEALED ON:

04/09/2020

LICENSE
EXPIRATION:

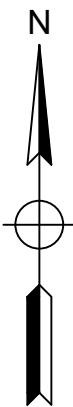
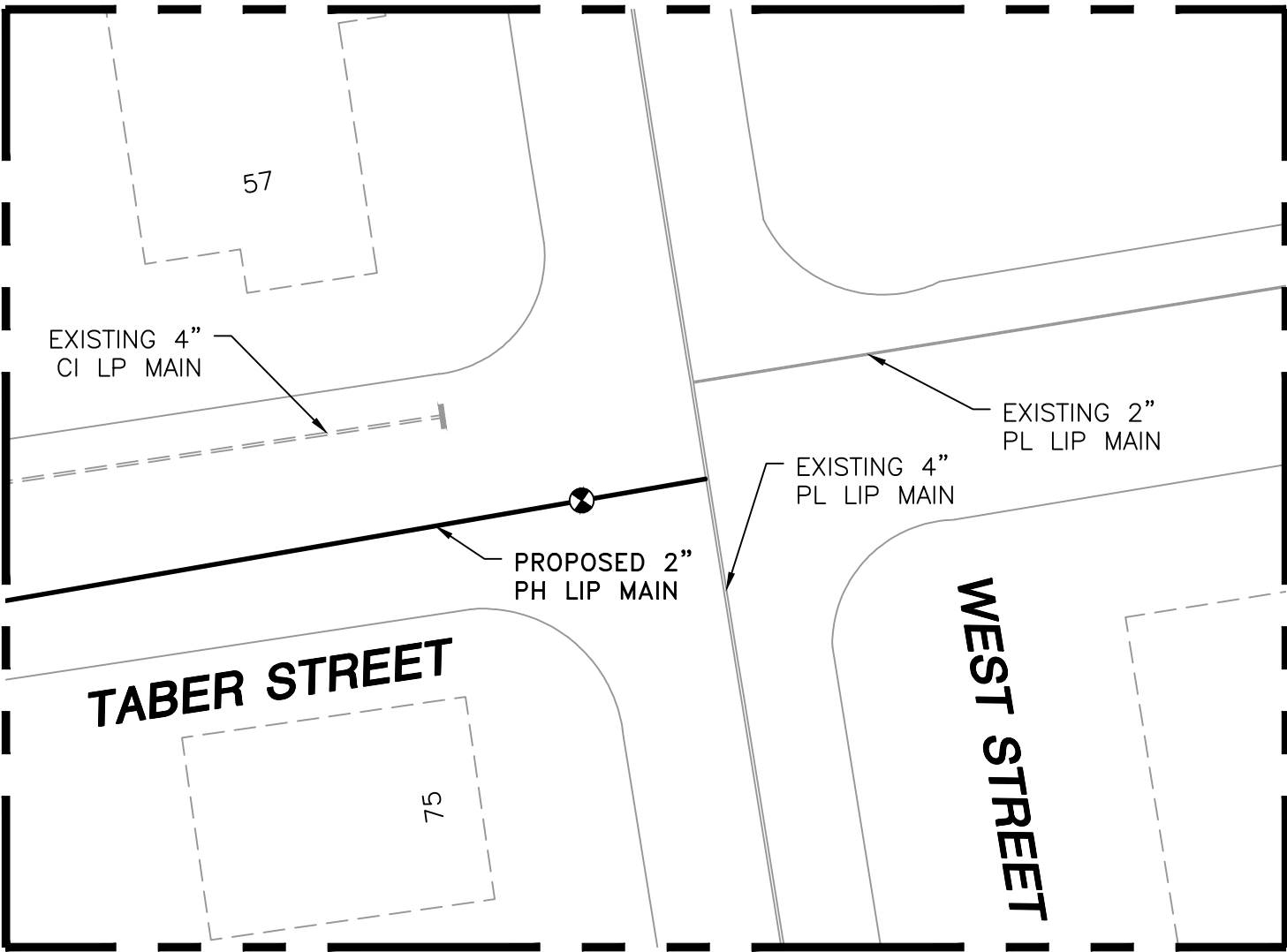
06/30/2020

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49-PART 192 OF MINIMUM FEDERAL SAFETY
STANDARDS AND GPTC GUIDE FOR GAS
TRANSMISSION AND DISTRIBUTION PIPING
SYSTEMS. LATEST EDITION.

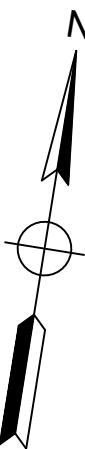
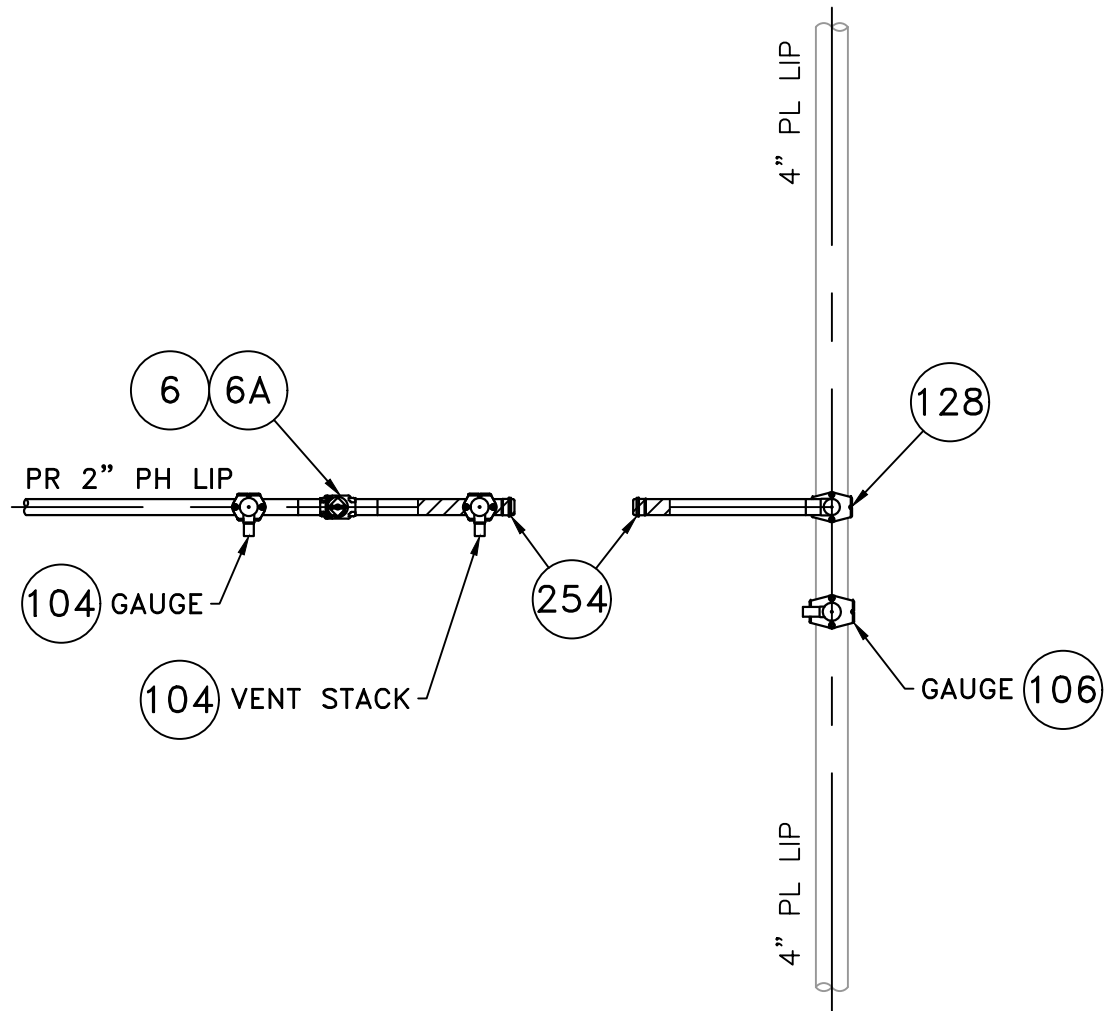
ENEngineering

29 BARTLETT STREET
MARLBOROUGH, MA 01752
TEL (630) 353-4000
FAX (630) 559-7777
WWW.ENENGINEERING.COM

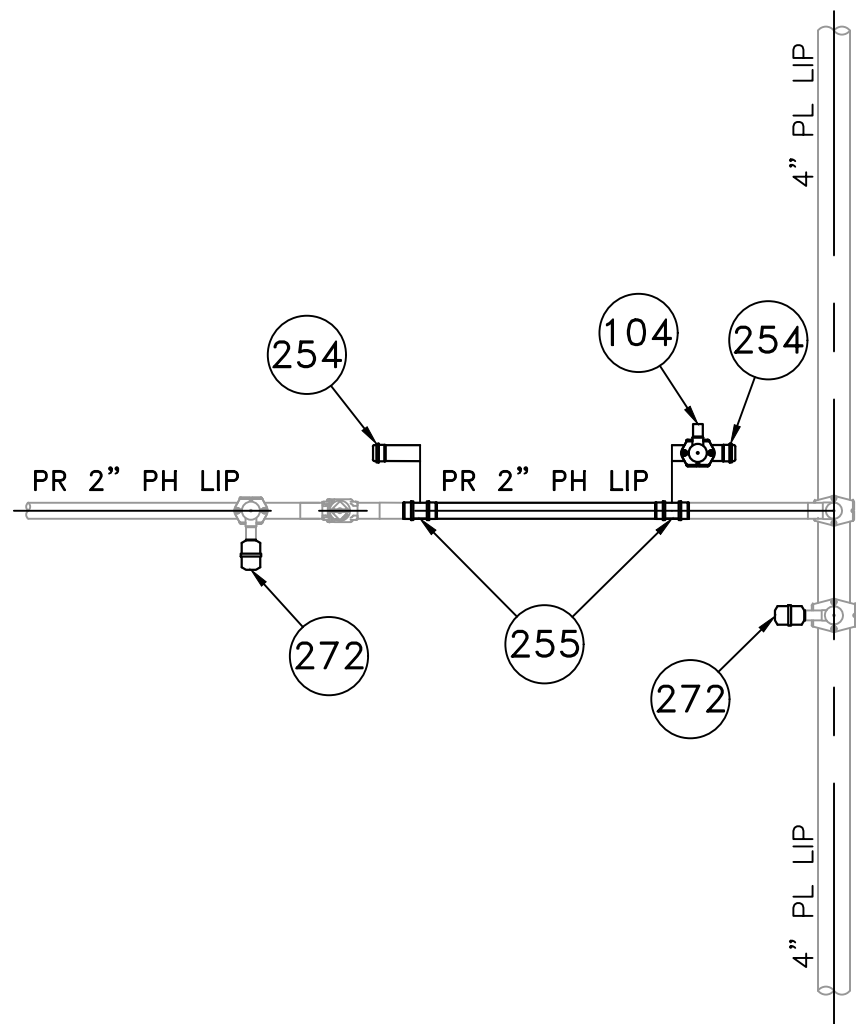
FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION



LOCATION K - PLAN VIEW
(SCALE: 1"=20')
(REFER TO SHEET #6)



LOCATION K - PHASE 1
(SCALE: 1"=2')
(REFER TO SHEET #6)



LOCATION K - PHASE 2
(SCALE: 1"=2')
(REFER TO SHEET #6)

BRIGHAM STREET MAIN RELAY - LOCATION K - SCHEDULE OF MATERIALS					
ITEM	QTY	SIZE	MAXIMO NO.	DESCRIPTION	MATERIAL
6	1	2"	562087	BALL VALVE, BUTT FUSION, IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASME B16.40. FULL PORT, 1/4 TURN, KEROTEST POLYBALL OR APPROVED EQUAL.	ASTM D2513
6A	1	2"		BOX, VALVE, PLASTIC, SNAP-ON, ADJ, W/CI NON-LOCKING LID	
104	3	2" X 1"	560779	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
106	1	4" X 1"	560781	TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
128	1	4" X 2"	584304	HV TAPPING TEE, ELECTROFUSION, IPS X IPS, HDPE 3408/4710, SDR 11, ASTM D2513, ASTM D3350, ASTM D3261, ASTM F1055. CENTRAL PLASTICS OR APPROVED EQUAL.	ASTM D2513
254	AS REQUIRED	2"	581633	END CAP MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
255	AS REQUIRED	2"	579840	COUPLING, MECHANICAL COMPRESSION, SDR 11 IPS, DUPONT ZYTEL ST-801 NYLON BODY, 316 SS COMPRESSION RING, INTERNAL STIFFENER, ASTM D-2513, ASTM F1924. METFIT OR APPROVED EQUAL.	ASTM D2513
272	AS REQUIRED	1"	542612	END CAP, MECHANICAL STAB, IPS, HDPE, PE 4710/3408, ASTM D2513, WITH SS GRIPPING SUPPORT RING, ACETAL COLLET AND SPACER RETAINER RING, PE THRUST WASHER, BUNA-N O-RING, ZINC-PLATED CS INSERT STIFFENER, PERFECTION WITH END CAP OR APPROVED EQUAL.	ASTM D2513

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NO.	DESCRIPTION	DATE	DW/CK/AP

REVISION STATUS			
EVERSOURCE ENERGY			
BRIGHAM STREET MAIN RELAY			
NEW BEDFORD, MASSACHUSETTS			
LOCATION K - PHASE 1, 2 AND SCHEDULE OF MATERIALS			
SCALE: AS NOTED		SHEET 19 OF 19	
DRAWN BY / DATE ZS 04/02/2020	CHECKED BY / DATE AB 04/09/2020	SHEET NUMBER	REV. NO.
APPROVED BY / DATE EK 04/09/2020	MA20PIPNEB053100R0	MA-20-PIP-NEB-053-100-19	0

NOTE:
1. REFER TO GENERAL NOTES ON SHEET #2.

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