

TOWN OF NORTH KINGSTOWN, RI
**WELL #10 PUMP STATION
 MODIFICATIONS**

#5897 POST RD. EAST GREENWICH, RI

PERMITTING SET
 DECEMBER 2021

CLIENT REPRESENTATIVES
 Timothy Cranston - Water Director

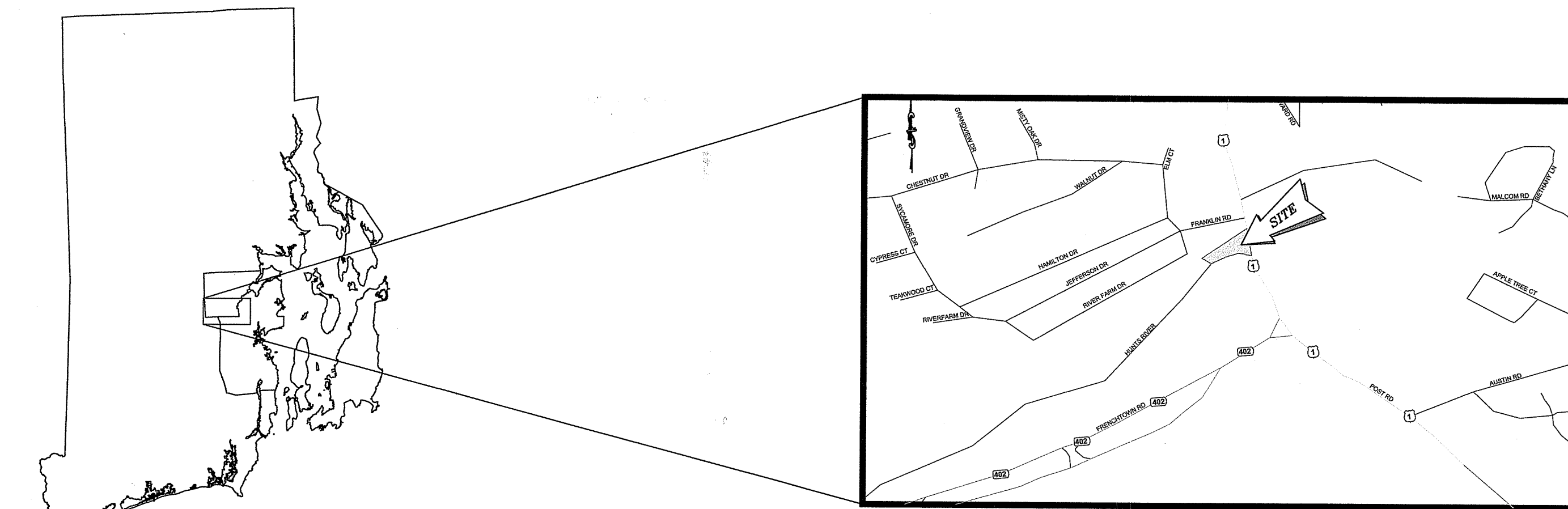
RI DEM WETLANDS FILE NO.
 20XX-00XXX

ENGINEER STAMP
 Sebastian Amenta - Rhode Island P.E.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: APR 26 2022 FILE # 22-0031
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Senack

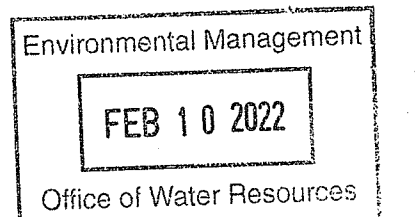
SHEET NO.	INDEX
	DESCRIPTION
C-1	EXISTING SITE LAYOUT
C-2	PROPOSED SITE LAYOUT
C-3	EXISTING PUMP STATION
C-4	DEMOLITION PLAN
C-5	PROPOSED PLAN
C-6	EXISTING & PROPOSED BUILDING FACES
C-7	EXISTING & PROPOSED BUILDING FACES
D-1	EXTERIOR DETAILS
D-2	INTERIOR DETAILS

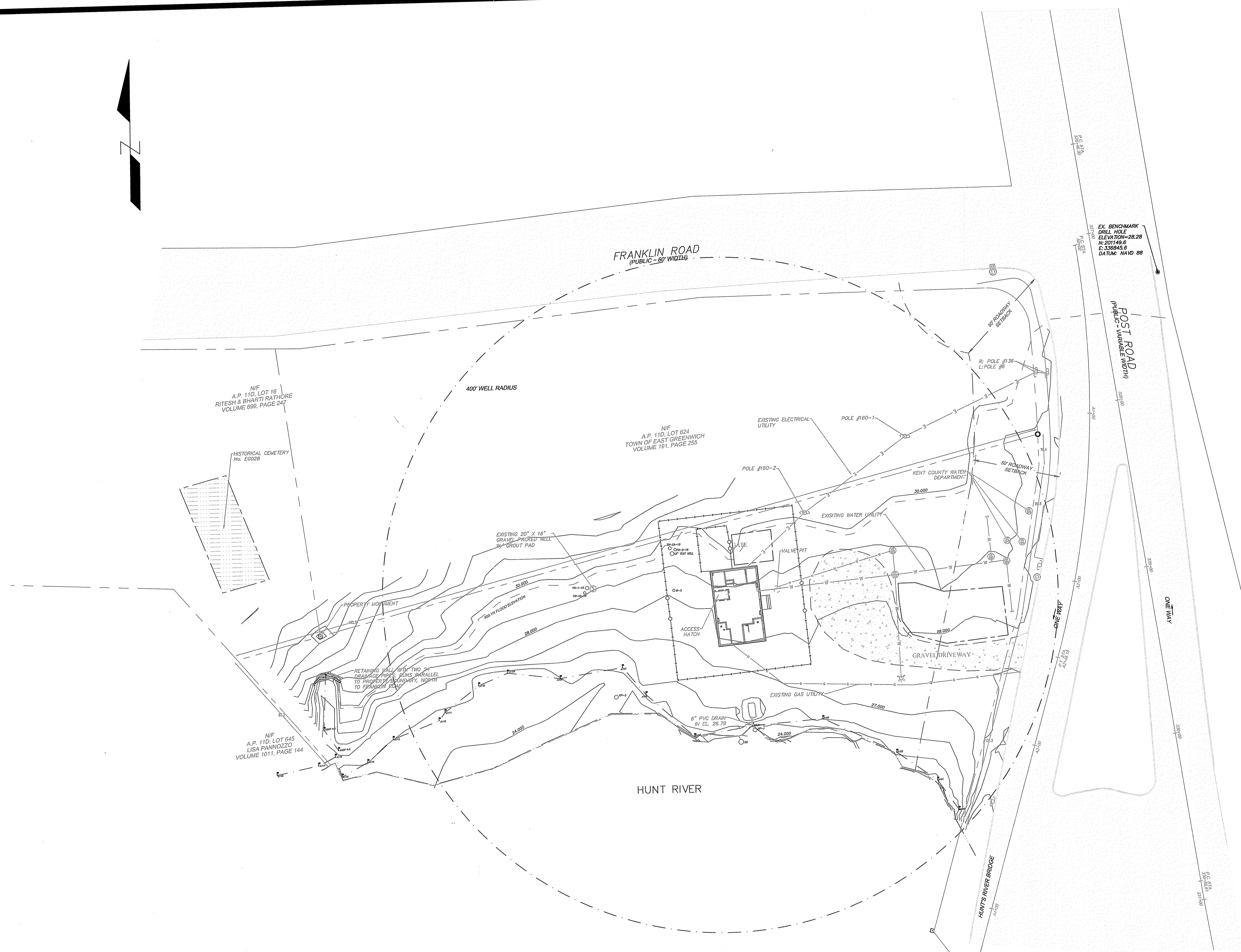
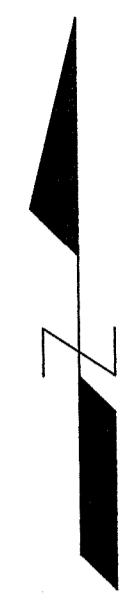


LOCUS SCALE 1" = 1000'



COMPREHENSIVE ENVIRONMENTAL INCORPORATED • Bolton, MASSACHUSETTS





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

GENERAL NOTES

1- THE BASE SURVEY WAS CONDUCTED, COMPILED, AND ASSEMBLED BY WATERMAN ENGINEERING AND STAMPED BY LICENSED LAND SURVEYOR, RICHARD S. LIPSITZ. CEI HAS INCORPORATED THE BASE SURVEY INTO THE DRAWING WITH PERMISSION FROM THE CLIENT.

2- 500-YR FLOOD ELEVATION IS 29.76 FT NAVD88 BASED ON ANECDOTAL INFORMATION FROM THE MARCH 2010 FLOOD.

3- WETLAND FLAGS INITIALLY SET BY ECOTONES INC. CIRCA 2013. CEI SHOWS THOSE POSITIONS ON THE DRAWINGS AS SURVEYED. CEI HAS REESTABLISHED THESE FLAGS ON SITE BASED OFF THE COORDINATES AND NAMING CONVENTIONS AS SHOWN ON THE ORIGINAL PLAN.

N.F. A.P. 11D, LOT 18
RITESH & BHARTI RATHORE
VOLUME 699, PAGE 247

HISTORICAL CEMETERY
No. E0028

FRANKLIN ROAD
(PUBLIC - 80' WIDTH)

400' WELL RADIUS

N.F. A.P. 11D, LOT 824
TOWN OF EAST GREENWICH
VOLUME 181, PAGE 255

EXISTING ELECTRICAL UTILITY

POLE #100-1

KEIT COUNTY WATER DEPARTMENT

EX. BENCHMARK
DRILL HOLE
ELEVATION=28.28
N. 201148.6
E. 336846.6
DATUM: NAVD 88

POST ROAD
(PUBLIC - Variable Width)

EXISTING WATER UTILITY

POLE #100-2

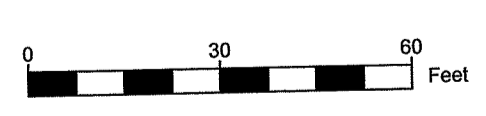
EXISTING GAS UTILITY

GRAVEL DRIVEWAY

N.F. A.P. 11D, LOT 645
LISA PANNOZZO
VOLUME 1011, PAGE 144

HUNT RIVER

SITE PLAN, EXISTING CONDITIONS
SCALE: 1"=30'



MAP LEGEND

- | | | | |
|-------|--------------------------------------|----------|------------------|
| --- | LAND USE SETBACKS (LABELED) | (Symbol) | WATER VALVE |
| -W- | EXISTING WATER PIPE | (Symbol) | DRAINAGE MANHOLE |
| -X-X- | EXISTING FENCELINE | (Symbol) | ELECTRICAL POLE |
| --- | EXISTING BUILDINGS | (Symbol) | GATE POST |
| --- | WATER'S EDGE | (Symbol) | CATCH BASIN |
| --- | EXISTING PROPERTY BOUNDARY | (Symbol) | WETLAND FLAG |
| --- | EXISTING CONTOURS | | |
| --- | WETLAND FLAGS | | |
| --- | 200' WETLAND SETBACK | | |
| --- | ENVIRONMENTAL DELINEATIONS (LABELED) | | |

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DATED: APR 26 2022 FILE #: 22-0091
NO CHANGES PERMITTED WITHOUT PRIOR APPROVAL
APPROVED PL. MUST BE AT CONSTRUCTION SITE

Environmental Management
FEB 10 2022
Office of Water Resources

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

41 MAIN ST.
BOLTON, MA 01740

EXISTING CONDITIONS
WELL #10 PUMP STATION MODIFICATIONS
NORTH KINGSTOWN, RI

Project No.: 232-4	Sheet
Date: OCT 2021	C-1
Drawn By: CM	
Checked By: SA	
Scale: AS SHOWN	

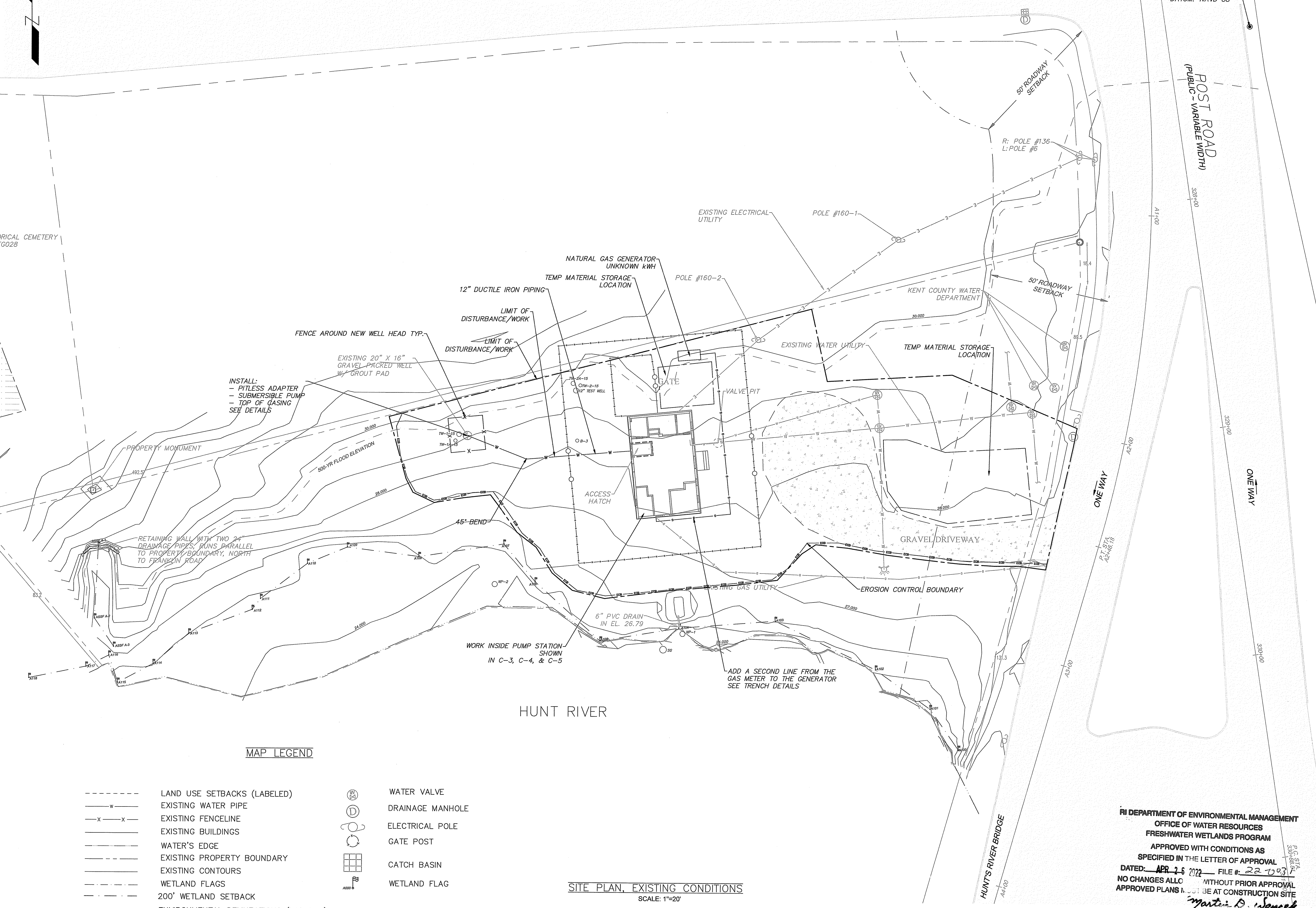


FRANKLIN ROAD
(PUBLIC - 60' WIDTH)

EX. BENCHMARK
DRILL HOLE
ELEVATION=28.28
N: 201149.6
E: 336845.6
DATUM: NAVD 88

POST ROAD
(PUBLIC - VARIABLE WIDTH)

ORICAL CEMETERY
0028



INSTALL:
- PITLESS ADAPTER
- SUBMERSIBLE PUMP
- TOP OF CASING
SEE DETAILS

FENCE AROUND NEW WELL HEAD TYP.
EXISTING 20" X 16"
GRAVEL PACKED WELL
W/ GROUT PAD

12" DUCTILE IRON PIPING
LIMIT OF
DISTURBANCE/WORK

NATURAL GAS GENERATOR-
UNKNOWN kWh

TEMP MATERIAL STORAGE
LOCATION

POLE #160-2

EXISTING ELECTRICAL
UTILITY

POLE #160-1

KENT COUNTY WATER
DEPARTMENT

EXISTING WATER UTILITY

TEMP MATERIAL STORAGE
LOCATION

GATE

VALVE PIT

45° BEND

6" PVC DRAIN
IN EL. 26.79

WORK INSIDE PUMP STATION
SHOWN
IN C-3, C-4, & C-5

ADD A SECOND LINE FROM THE
GAS METER TO THE GENERATOR
SEE TRENCH DETAILS

EROSION CONTROL BOUNDARY

GRAVEL DRIVEWAY

ONE WAY

ONE WAY

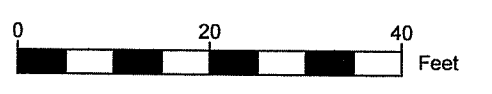
HUNT'S RIVER BRIDGE

MAP LEGEND

- LAND USE SETBACKS (LABELED)
- W- EXISTING WATER PIPE
- X-X- EXISTING FENCELINE
- EXISTING BUILDINGS
- WATER'S EDGE
- EXISTING PROPERTY BOUNDARY
- EXISTING CONTOURS
- WETLAND FLAGS
- 200' WETLAND SETBACK
- ENVIRONMENTAL DELINEATIONS (LABELED)
- (Symbol) WATER VALVE
- (Symbol) DRAINAGE MANHOLE
- (Symbol) ELECTRICAL POLE
- (Symbol) GATE POST
- (Symbol) CATCH BASIN
- (Symbol) WETLAND FLAG

SITE PLAN, EXISTING CONDITIONS

SCALE: 1"=20'



GENERAL NOTES

1- THE BASE SURVEY WAS CONDUCTED, COMPILED, AND ASSEMBLED BY WATERMAN ENGINEERING AND STAMPED BY LICENSED LAND SURVEYOR, RICHARD S. LIPSITZ. CEI HAS INCORPORATED THE BASE SURVEY INTO THE DRAWING WITH PERMISSION FROM THE CLIENT.

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41 MAIN ST.
BOLTON, MA 01740

PROPOSED CONDITIONS

WELL #10 PUMP STATION MODIFICATIONS
NORTH KINGSTOWN, RI

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 26 2022 FILE #: 22-0037

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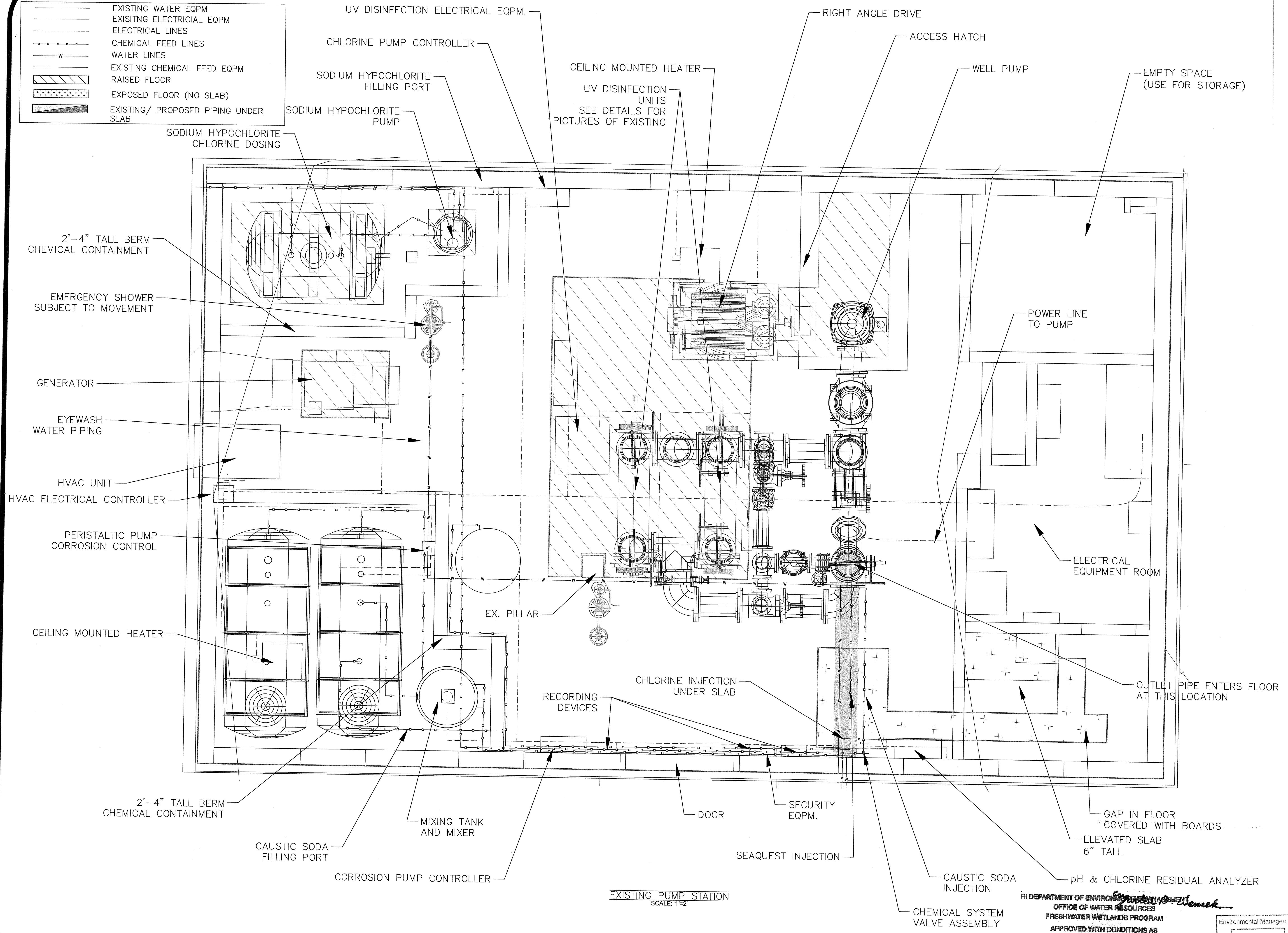
Martin D. Senek

Project No.: 232-4	Sheet
Date: OCT 2021	C-2
Drawn By: CM	
Checked By: SA	
Scale: AS SHOWN	

Environmental Management
Office of Water Resources
FEB 10 2022

MAP LEGEND

- EXISTING WATER EQPM
- EXISTING ELECTRICAL EQPM
- - - ELECTRICAL LINES
- - - CHEMICAL FEED LINES
- - - WATER LINES
- - - EXISTING CHEMICAL FEED EQPM
- ▨ RAISED FLOOR
- ▩ EXPOSED FLOOR (NO SLAB)
- ▧ EXISTING/ PROPOSED PIPING UNDER SLAB



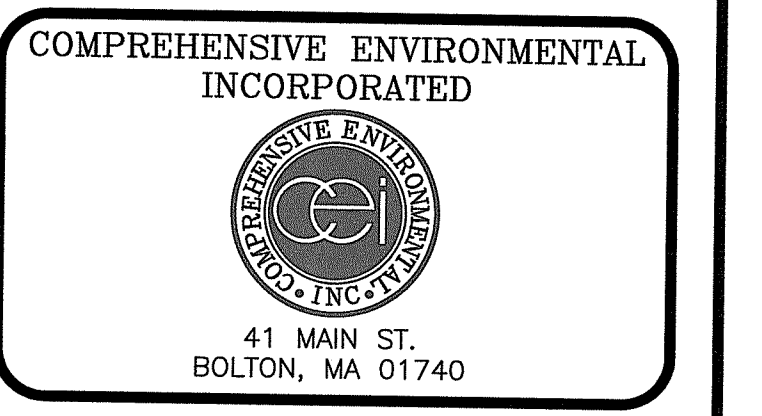
GENERAL NOTES

1- INFORMATION SHOWN ON THE DRAWING HAS BEEN FIELD COLLECTED TO BEST OF THE ENGINEER'S ABILITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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EXISTING PUMP STATION

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

Project No.: 232-4	Sheet
Date: OCT 2021	C-3
Drawn By: CM	
Checked By: SA	
Scale: AS SHOWN	

EXISTING PUMP STATION
SCALE: 1"=2'

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

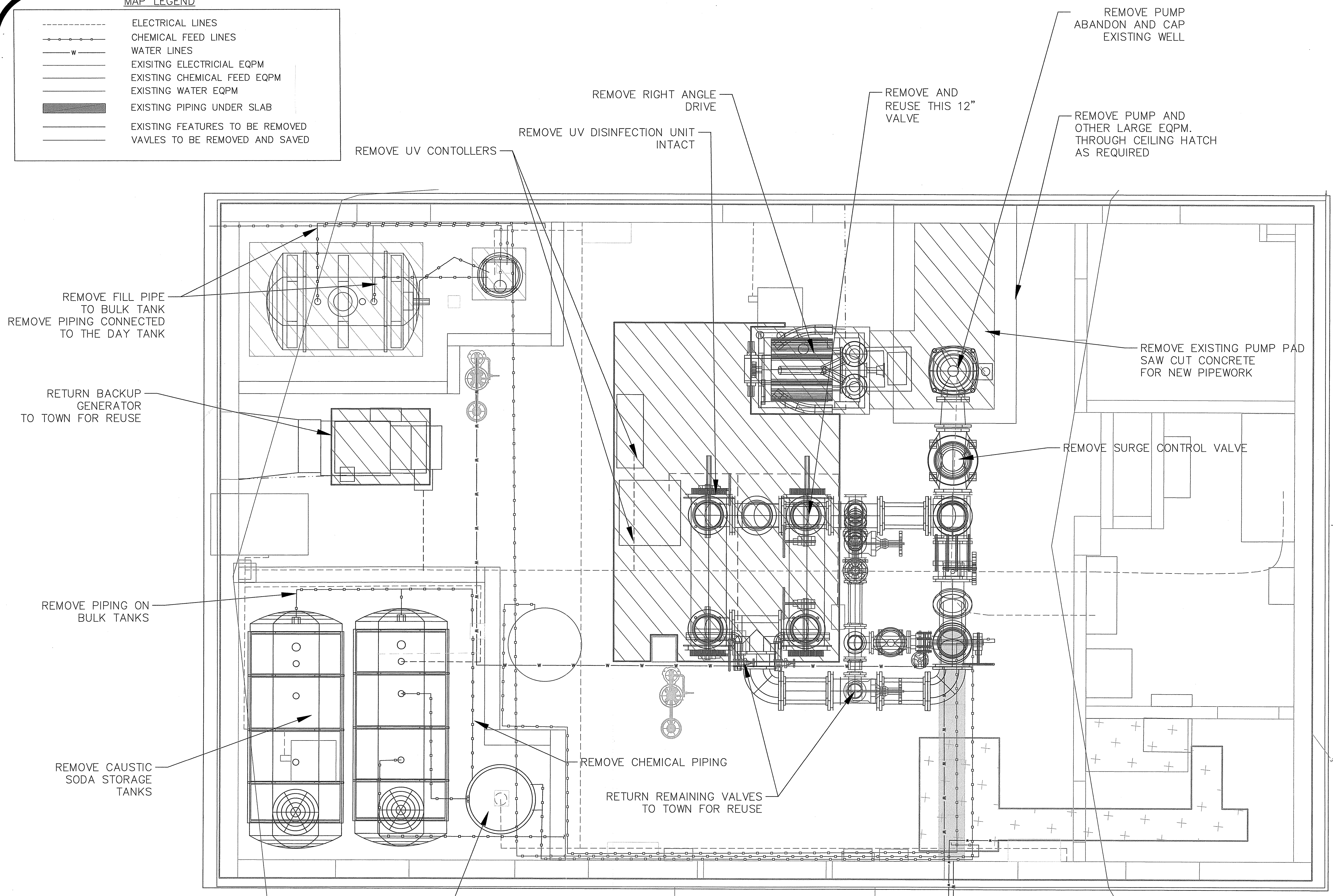
DATED: APR 26 2022 FILE # 232-0031

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Environmental Management
Office of Water Resources
FEB 10 2022

MAP LEGEND

- ELECTRICAL LINES
- o---o--- CHEMICAL FEED LINES
- w--- WATER LINES
- EXISTING ELECTRICAL EQPM
- EXISTING CHEMICAL FEED EQPM
- EXISTING WATER EQPM
- EXISTING PIPING UNDER SLAB
- EXISTING FEATURES TO BE REMOVED
- VAVLES TO BE REMOVED AND SAVED



GENERAL NOTES

1- INDICATIONS TO "REMOVE" AN ITEM REFERS TO THE LEGAL AND APPROPRIATE DISPOSAL OF THE ITEM PER THE SPECIFICATIONS.

2- VALVES TO BE RETURNED SHOULD BE LEFT IN THE CARE OF A WATER OPERATOR WITH THE TOWN OF N. KINGSTOWN.

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41 MAIN ST.
BOLTON, MA 01740

DEMOLITION PLAN

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

Project No.: 232-4	Sheet
Date: OCT 2021	C-4
Drawn By: CM	
Checked By: SA	
Scale: AS SHOWN	

PROPOSED PUMP STATION
SCALE: 1"=2'

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FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 16 2022 F # 22-0031

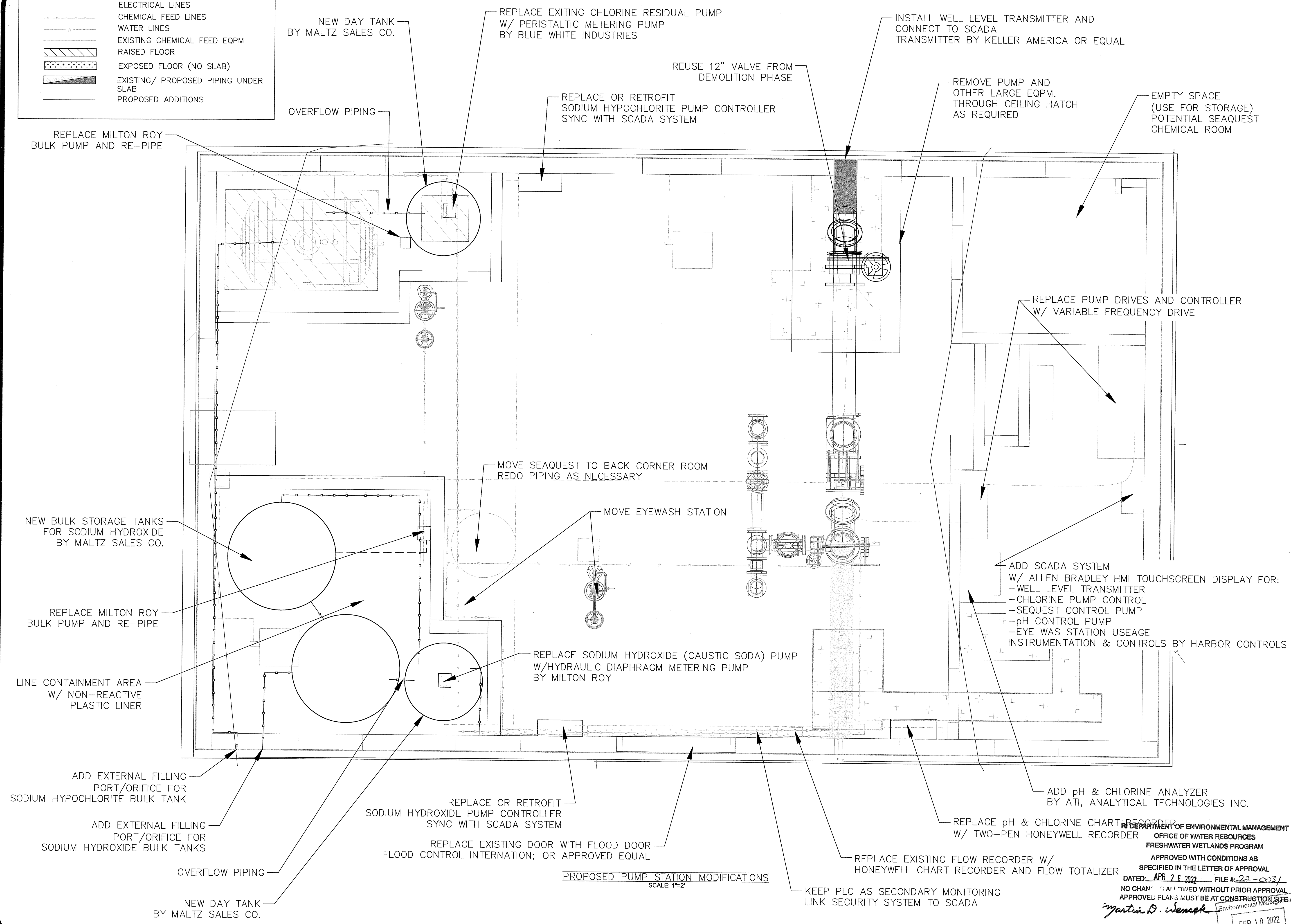
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Martin D. [Signature]
Office of Water Resources

FEB 10 2022

MAP LEGEND

- EXISTING ELECTRICAL EQPM
- ELECTRICAL LINES
- CHEMICAL FEED LINES
- WATER LINES
- EXISTING CHEMICAL FEED EQPM
- ▨ RAISED FLOOR
- ▤ EXPOSED FLOOR (NO SLAB)
- ▧ EXISTING/ PROPOSED PIPING UNDER SLAB
- PROPOSED ADDITIONS



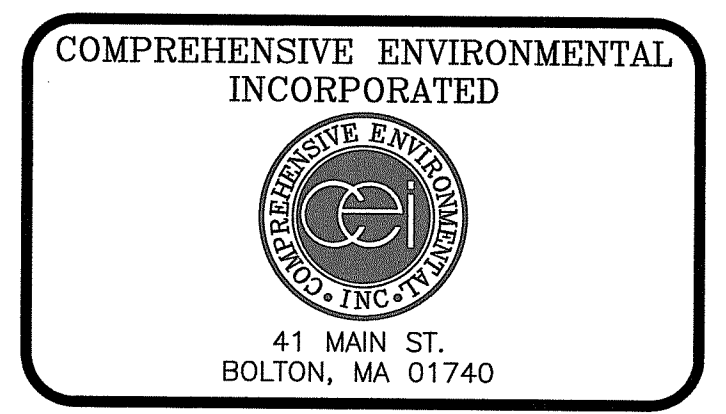
PROPOSED PUMP STATION MODIFICATIONS
SCALE: 1"=2'

GENERAL NOTES
1-PROPOSED CONDITIONS NOT COMPLETE AT THIS DATE: 12/21/21

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PROPOSED PLAN

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

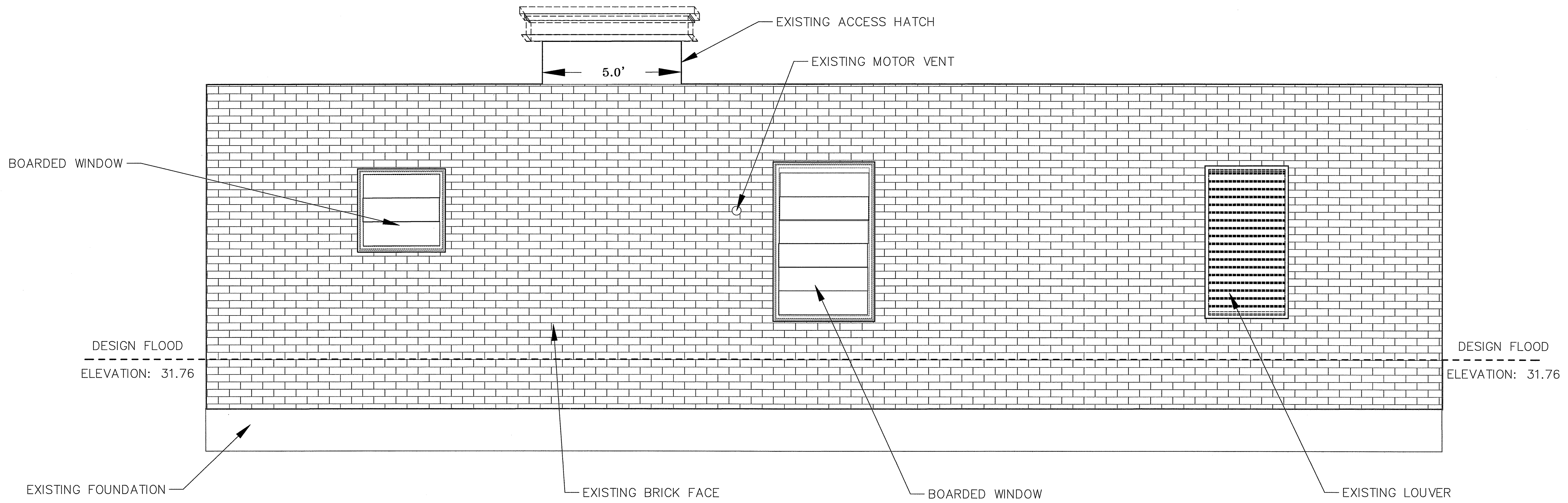
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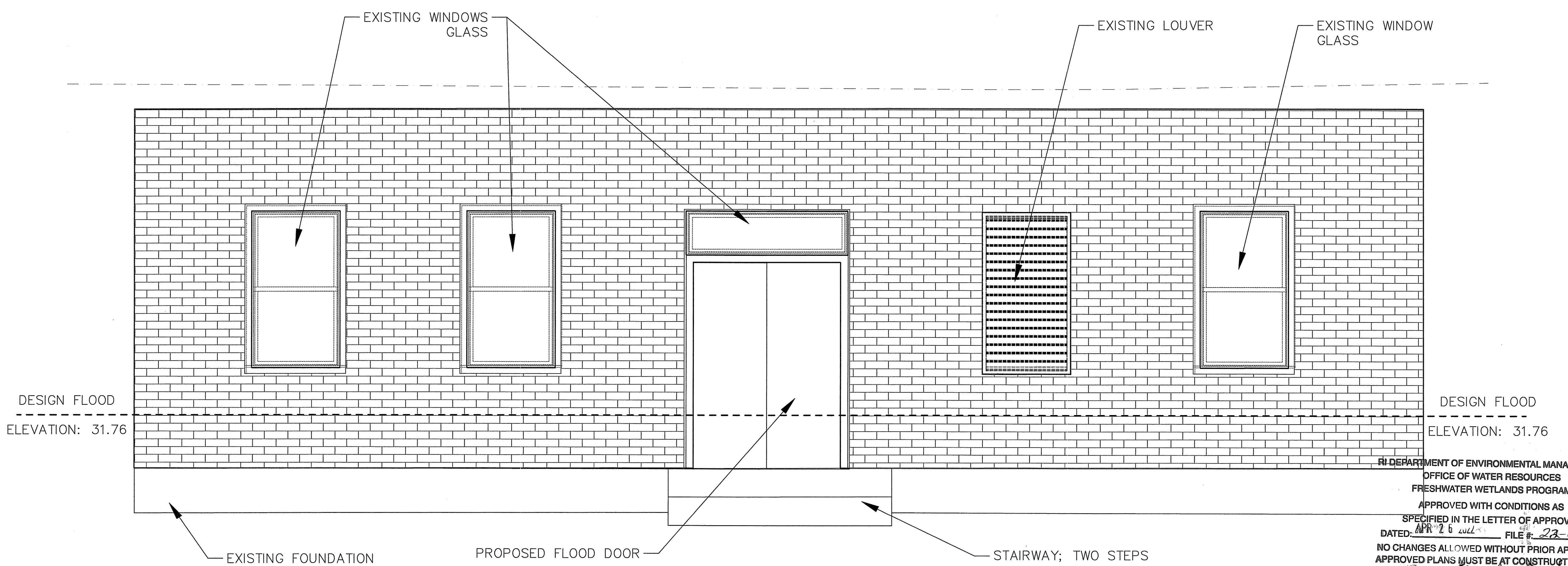
Martin D. Wencsek
Environmental Manager
Office of Water Resources

FEB 10 2022

Project No.: 232-4	Sheet
Date: NOV 2021	C-5
Drawn By: CM	
Checked By: SA	
Scale: AS SHOWN	



WESTERN FACE OF BUILDING
SCALE: 1"=2'



EASTERN FACE OF BUILDING
SCALE: 1"=2'

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Signature: B. Wenzel

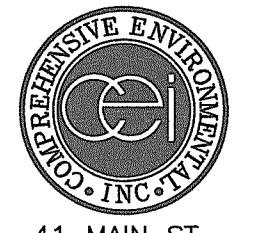
Environmental Management
FEB 10 2022
Office of Water Resources

GENERAL NOTES
1- DESIGN FLOOD ELEVATION IS 2) FEET ABOVE 500-YEAR FLOOD ELEVATION.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

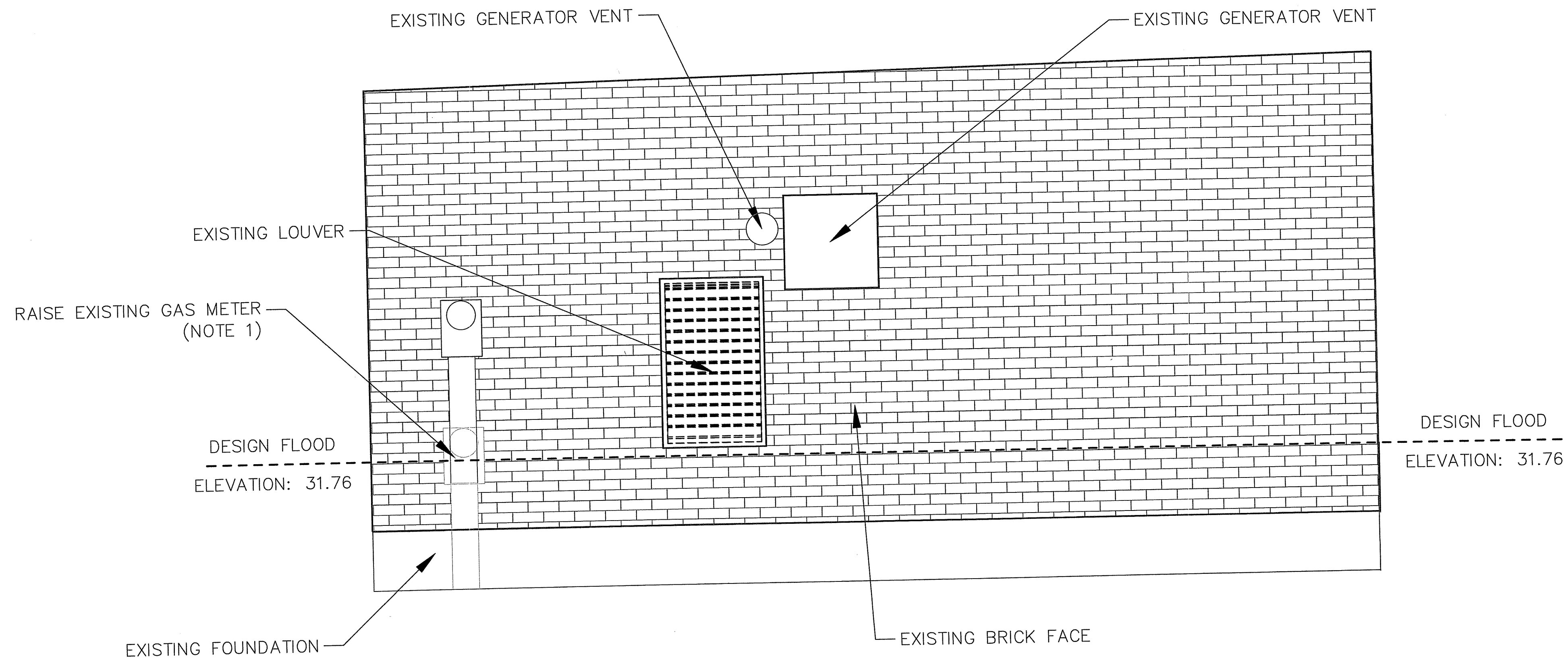
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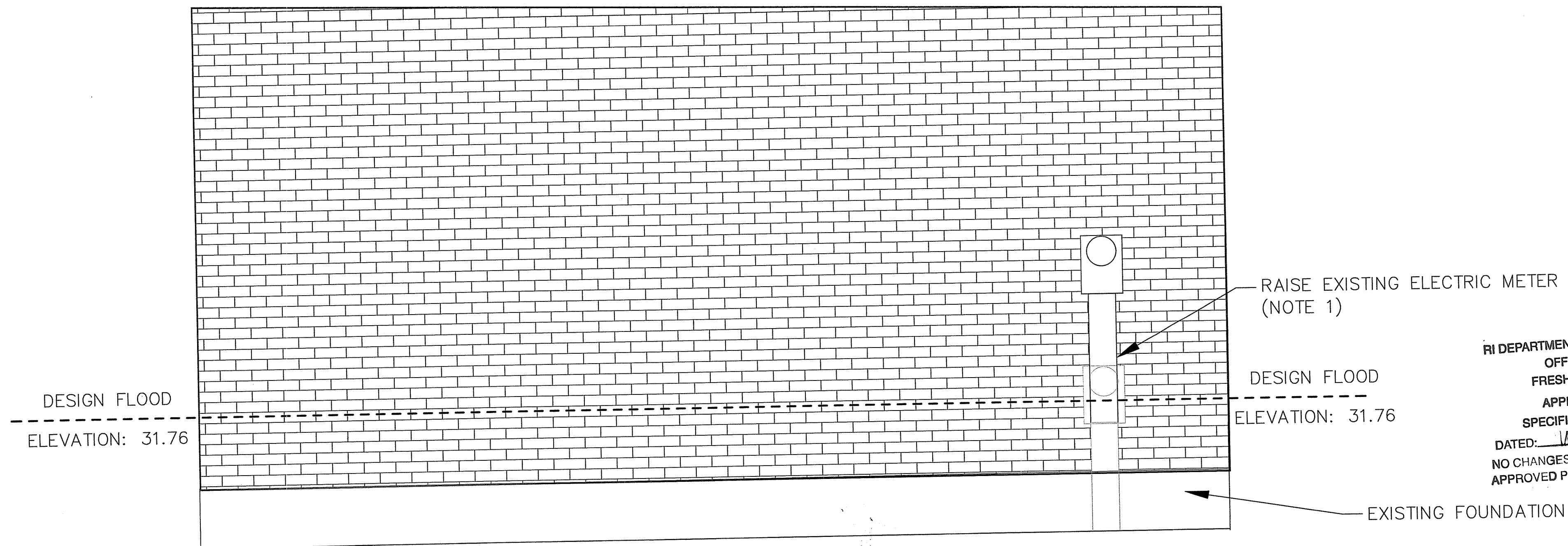
COMPREHENSIVE ENVIRONMENTAL INCORPORATED

 41 MAIN ST.
 BOLTON, MA 01740

EXISTING & PROPOSED BUILDING FACES
 WELL #10 PUMP STATION RENOVATION
 NORTH KINGSTOWN, RI

Project No: 232-4	Sheet
Date: NOV 2021	C-6
Drawn By: CM	
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Scale: AS SHOWN	



SOUTH FACE OF BUILDING
SCALE: 1"=2'



NORTH FACE OF BUILDING
SCALE: 1"=2'

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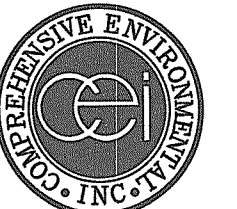
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GENERAL NOTES

1- DESIGN FLOOD ELEVATION
IS 2 FEET ABOVE 500-YEAR
FLOOD ELEVATION.

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL
INCORPORATED



41 MAIN ST.
BOLTON, MA 01740

EXISTING & PROPOSED
BUILDING FACES

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

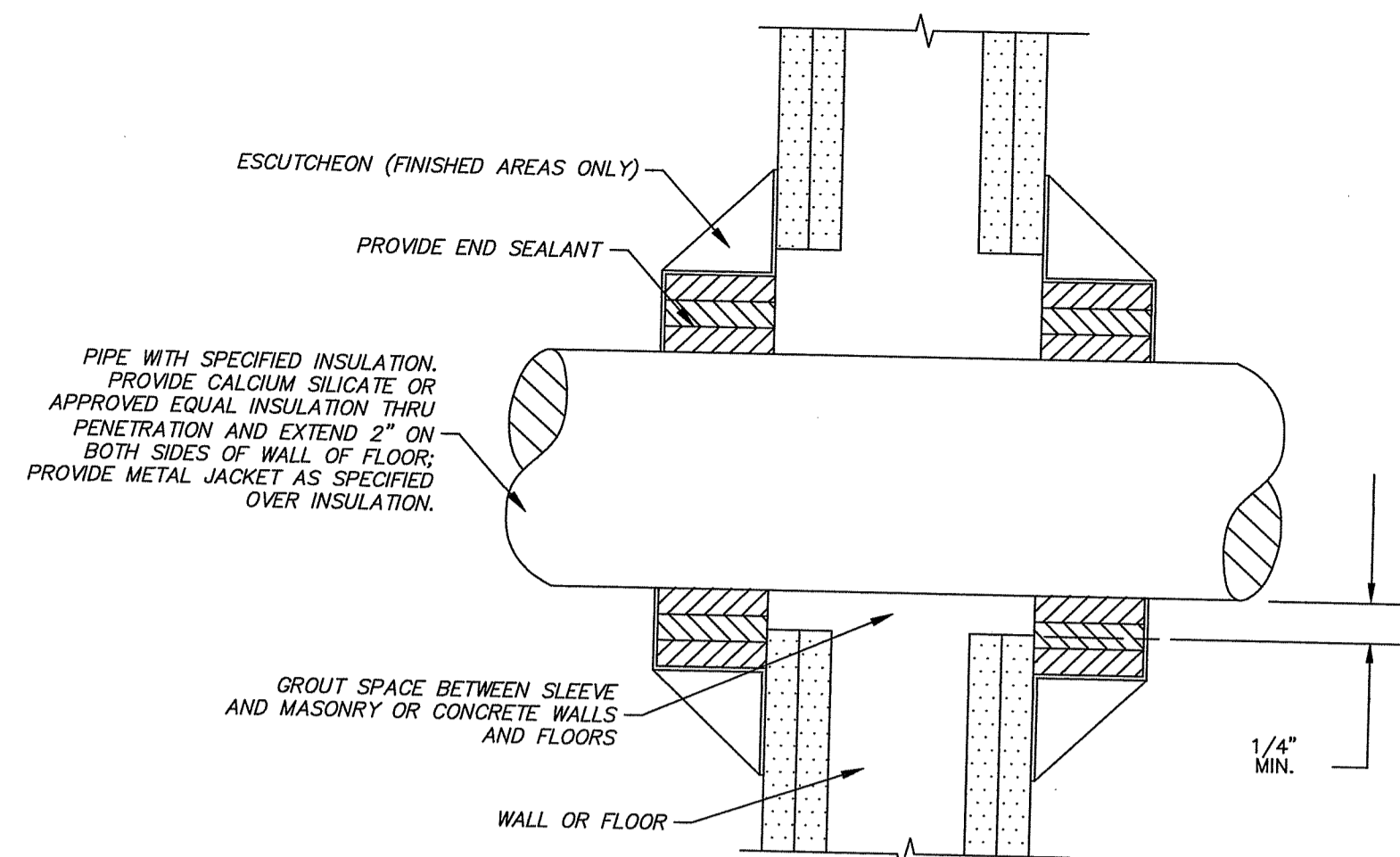
Project No.: 232-4
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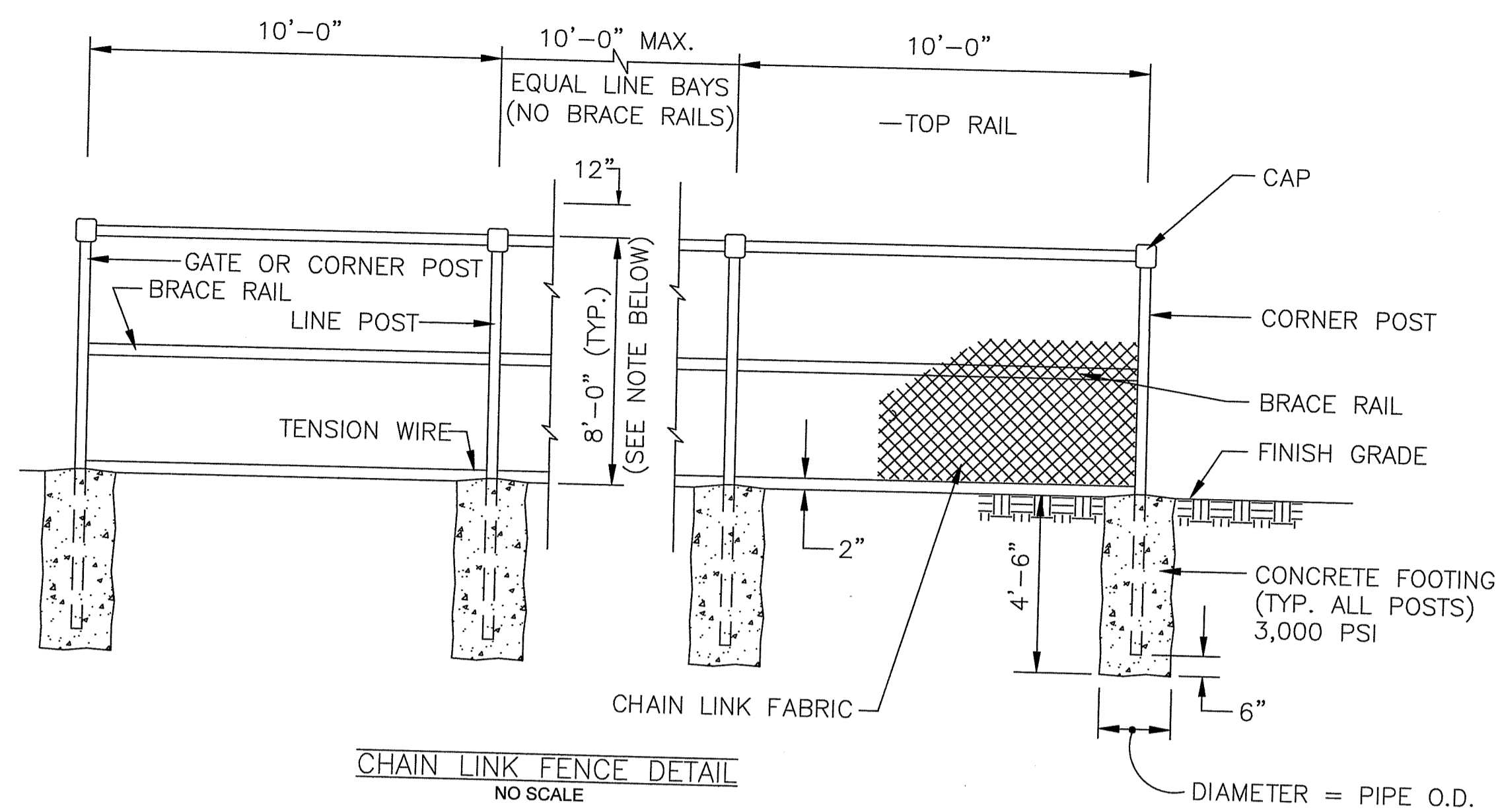
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Sheet
C-7

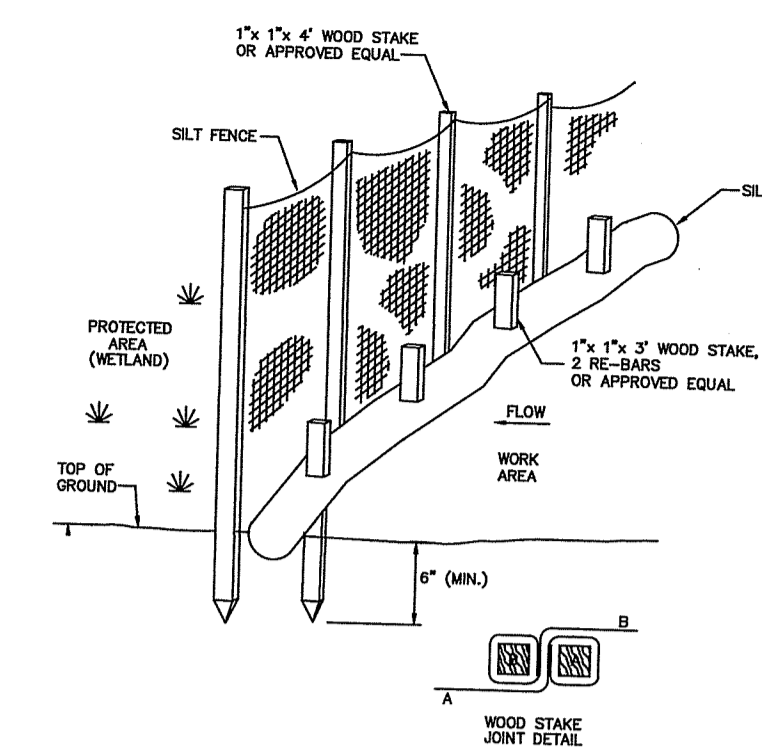
Environmental Management
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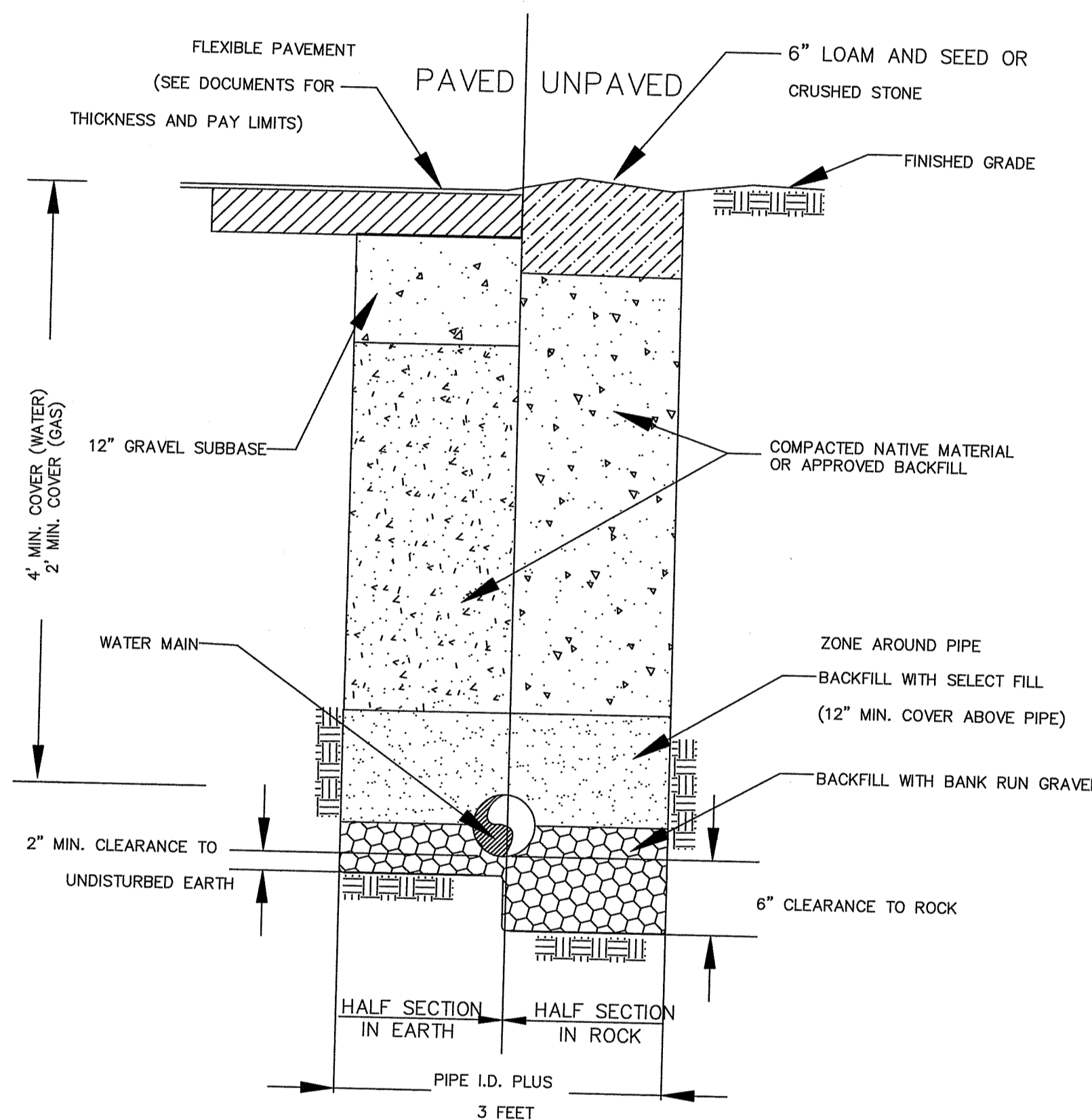
PIPE PENETRATION THROUGH INTERIOR WALL/FLOOR
NOT TO SCALE



CHAIN LINK FENCE DETAIL
NO SCALE



EROSION CONTROL BOUNDARY DETAIL
NO SCALE



TRENCHING DETAIL
NO SCALE

PITLESS ADAPTER DETAIL
NO SCALE

GENERAL NOTES

1-

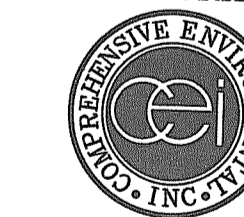
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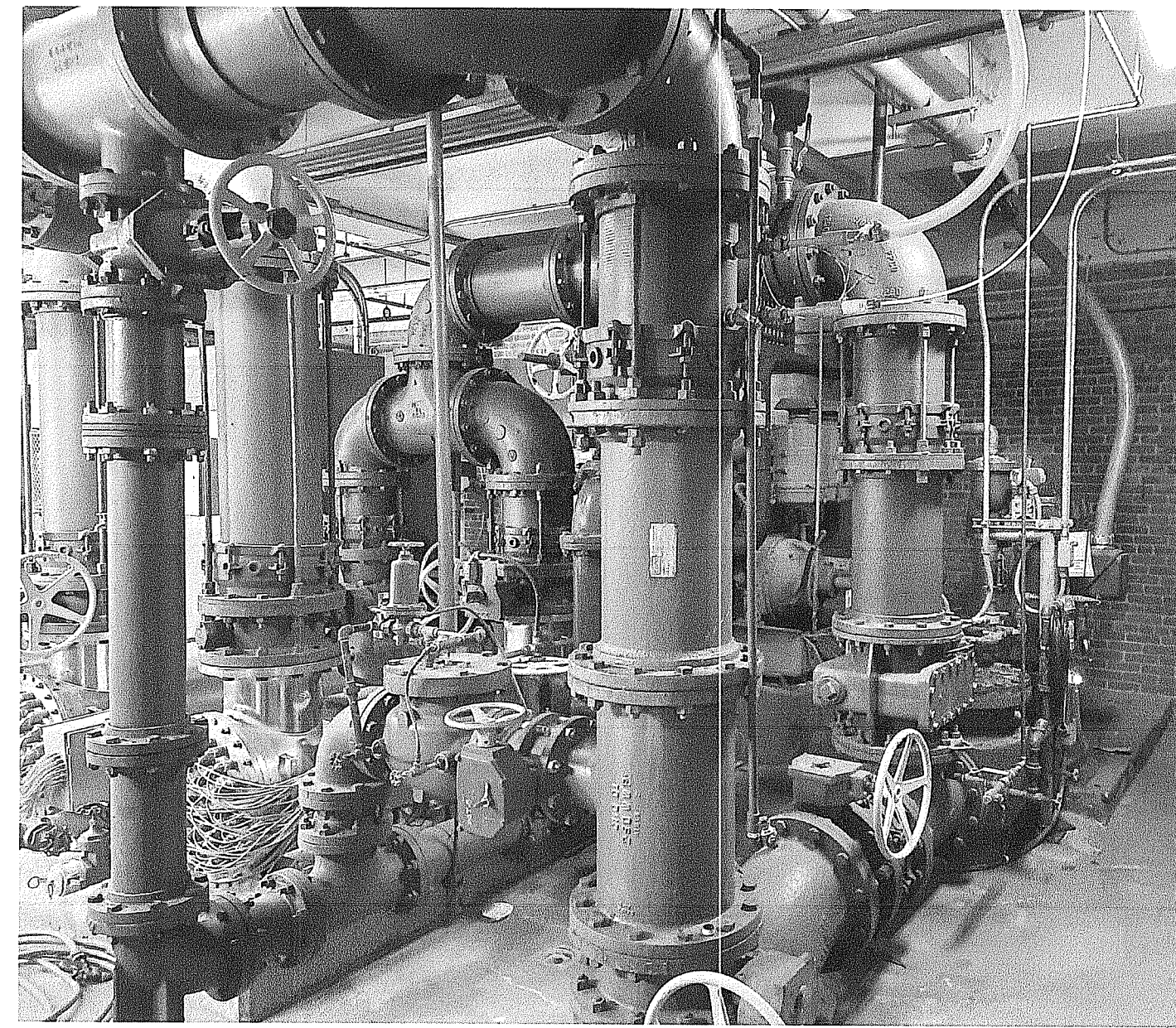
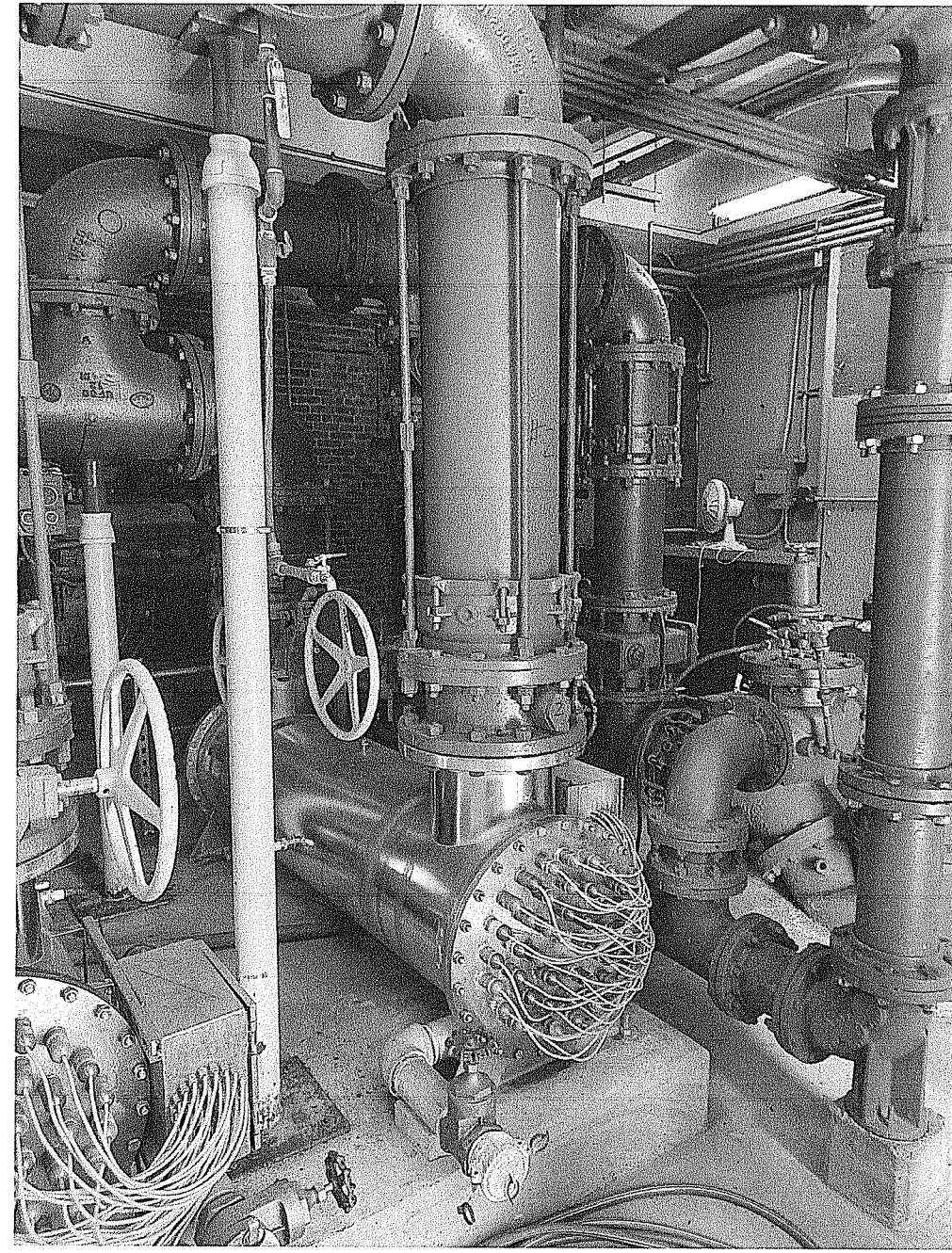
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EXTERIOR DETAILS

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

Project No: 232-4	Sheet
Date: NOV 2021	D-1
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Environmental Management
Office of Water Resources
FEB 10 2022



EXISTING PIPING PICTURES
NO SCALE

CHAIN LINK FENCE DETAIL
NO SCALE

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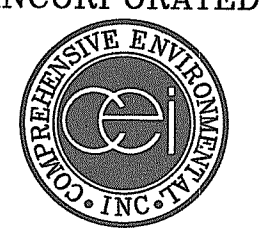
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GENERAL NOTES

1-

No.	Revision/Issue	Date

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EXTERIOR DETAILS

WELL #10 PUMP STATION RENOVATION
NORTH KINGSTOWN, RI

Project No.: 232-4 Date: OCT 2021 Drawn By: CM Checked By: SA Scale: AS SHOWN	Sheet D-1
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