

6. Current permit coverage: yes no

- a) Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI? yes no If Yes, permit number MAG250520
- b) Is the facility covered by an individual NPDES permit for other discharges? yes no
If yes, Permit Number: MAR053092
- c) Is there a pending NPDES application on file with EPA for this discharge? yes no
If yes, date of submittal: _____ and permit number, if available _____

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

B. Map attached? Discharge Information (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: Unnamed tributary to the Bass River
 Freshwater Marine Water ; State Water Quality Classification Class B
 Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) Tributary

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s).

Line drawing or flow diagram attached?

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) Municipal water is used to cool heat exchangers for closed loop recirculating water system.

4. Number of Outfalls 1 Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at <https://www.epa.gov/toxics-release-inventory-tri-program/tri-data-and-tools>. Attach additional pages if necessary.

Outfall #	Latitude <u>N42-34-25.5</u>	Longitude <u>W70-52-51</u>
Outfall #	Latitude _____	Longitude _____
Outfall #	Latitude _____	Longitude _____

5. For each Outfall provide the following discharge information:

Outfall # 1

- a) Maximum Daily Flow 0.031 MGD Average Monthly Flow 0.008 MGD
NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.
- b) Maximum Daily Temperature 76 °F Average Monthly Temperature 62.95 °F
- c) Maximum Monthly pH 8.45 s.u. Minimum Monthly pH 6.79 s.u.
- d) Outfall's discharge is: continuous intermittent seasonal

Outfall # _____

- a) Maximum Daily Flow _____ MGD Average Monthly Flow _____ MGD
NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.
- b) Maximum Daily Temperature _____ °F Average Monthly Temperature _____ °F
- c) Maximum Monthly pH _____ s.u. Minimum Monthly pH _____ s.u.
- d) Outfall's discharge is: continuous intermittent seasonal

Outfall # _____

a) Maximum Daily Flow _____ MGD Average Monthly Flow _____ MGD

NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.

b) Maximum Daily Temperature _____ °F Average Monthly Temperature _____ °F

c) Maximum Monthly pH _____ s.u. Minimum Monthly pH _____ s.u.

d) Outfall's discharge is: continuous intermittent seasonal

6. Is the source of the NCCW potable water? yes no

If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ MGD

Attach any calculation sheets used to support stream flow and/or dilution calculations.

8. For facilities that discharge to Massachusetts surface waters:

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached?

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? yes no

If yes, provide the name of ACEC _____

c) Does the discharge occur to an Outstanding Resource Water (ORW)? yes no

If yes, enclose antidegradation waiver approval provided by MassDEP.

Note: See Appendix 1 of the General Permit for more information on ACEC.

C. Chemical Additives

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? yes no

2. If yes, attach a list of each chemical used and include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/L) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for typically acceptable aquatic organism).

Dechlorination: Calgon "Filtasorb 400" Granular activated carbon (no contaminants in effluent)
Neutralization for Corrosivity: Quickrete "Limestone" (calcium carbonate) < 1mg/l discharge

3. Was this list submitted with the facility's 2014 NCCWGP NOI? yes no

D. NCCW Source Water Information

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).

Source Municipal Name of Source Water Salem Beverly Water Supply

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)? yes no If yes, registration number _____

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.

Test results attached?

4. Does the facility use both a primary and backup source of NCCW? yes no If yes, **attach information** that identifies and describes the primary and backup sources of NCCW and how often any backup supply was used in the past five years.

E. Best Technology Available for Cooling Water Intake Structures (CWISs)

If the facility's non-contact cooling water discharge is covered by this General Permit and the facility **withdraws water from a surface water**, it is subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit? yes no
- a) If no, explain _____ and skip to F.
- b) If yes, submit a facility-specific BTA description that accurately describes the facility's operations and practices, including, but not limited to, the measures described in Part 5.5 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet.

Include in your description:

- a) Measures to meet the General Permit Part 4.2.1 general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrates; or the required alternative monitoring plan frequency and/or protocol.
- b) The attributes of the current CWIS.
- c) The design measures of the CWIS.
- d) The operational measures of the CWIS.
- e) The historical occurrence of impinged fish for the past five years.
- f) If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system.
- g) Other components to reduce impingement and/or entrainment of aquatic life.

2. Provide the following information for each CWIS to support your attached facility-specific BTA description:

- a) The design capacity of the of the CWIS _____ MGD
- b) Maximum monthly average intake of the CWIS during the previous five years _____ MGD
- c) The month and year in which this flow reported in 2.b. occurred _____
- d) The maximum through-screen design intake velocity _____ feet/second (fps)

3. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

- a) The source water's annual mean flow in MGD as available from USGS or other appropriate source _____ MGD
- b) The design intake flow as a % of the source water's annual mean flow _____ %
Attach calculations if equal to or less than 5% of annual mean flow.
- c) The source water's 7Q10 _____ MGD
- d) The design intake flow as a percent of the source water's 7Q10 _____ %

4. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?**

F. Endangered Species Act Eligibility Information

If your facility is listed in Table A as one of the 37 facilities covered under the 2014 NCCW GP, check this box.
Your ESA consultation responsibilities have been satisfied by EPA. Proceed to Part G.

If your facility is not included as one of the 37 facilities covered under the 2014 NCCW GP, complete this Part.

Using the instructions in Appendix 2, Parts B(1) and B(2) of the NCCW GP, which of the following criteria apply to your facility?

United States Fish and Wildlife Service (USFWS) Criteria: A B C

National Oceanic and Atmospheric Administration Fisheries Service (NOAA Fisheries) Criteria: A B C

1. If you selected USFWS criterion B, has consultation with the USFWS been completed? yes no
 If you selected NOAA Fisheries criterion B, has consultation with NOAA Fisheries been completed?
 yes no

2. If consultation with USFWS and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?
 USFWS yes no N/A NOAA Fisheries yes no N/A

3. Attach documentation of ESA eligibility for USFWS and NOAA Fisheries as required at Appendix 2, Part C. of the General Permit. **Documentation attached?** USFWS NOAA Fisheries

4. Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges any NCCW effluent to**, any of the following waterbodies:

- Merrimack River
- Connecticut River
- Westfield River
- Deerfield River
- Piscataqua River
- Salmon Falls River
- Cochecho River
- Taunton River

EPA will consult with NOAA Fisheries on any cooling water intakes or discharges covered under this permit in areas (in the above waterbodies) that overlap with the presence of shortnose sturgeon (endangered) and Atlantic sturgeon (threatened/endangered).

Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges non-contact cooling water effluent to**, the Connecticut River Watershed. EPA will consult with the U.S Fish and Wildlife Service on cooling water intakes and discharges covered under this permit in areas of the Connecticut River Watershed that overlap with the presence of the dwarf wedgemussel (endangered).
 yes no

G. National Historic Properties Act Eligibility

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes no

2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? yes no
 If yes, attach the results of the consultation(s).

3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C has the facility met?
 1 2 3

H. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

I. Signature Requirements

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR§ 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

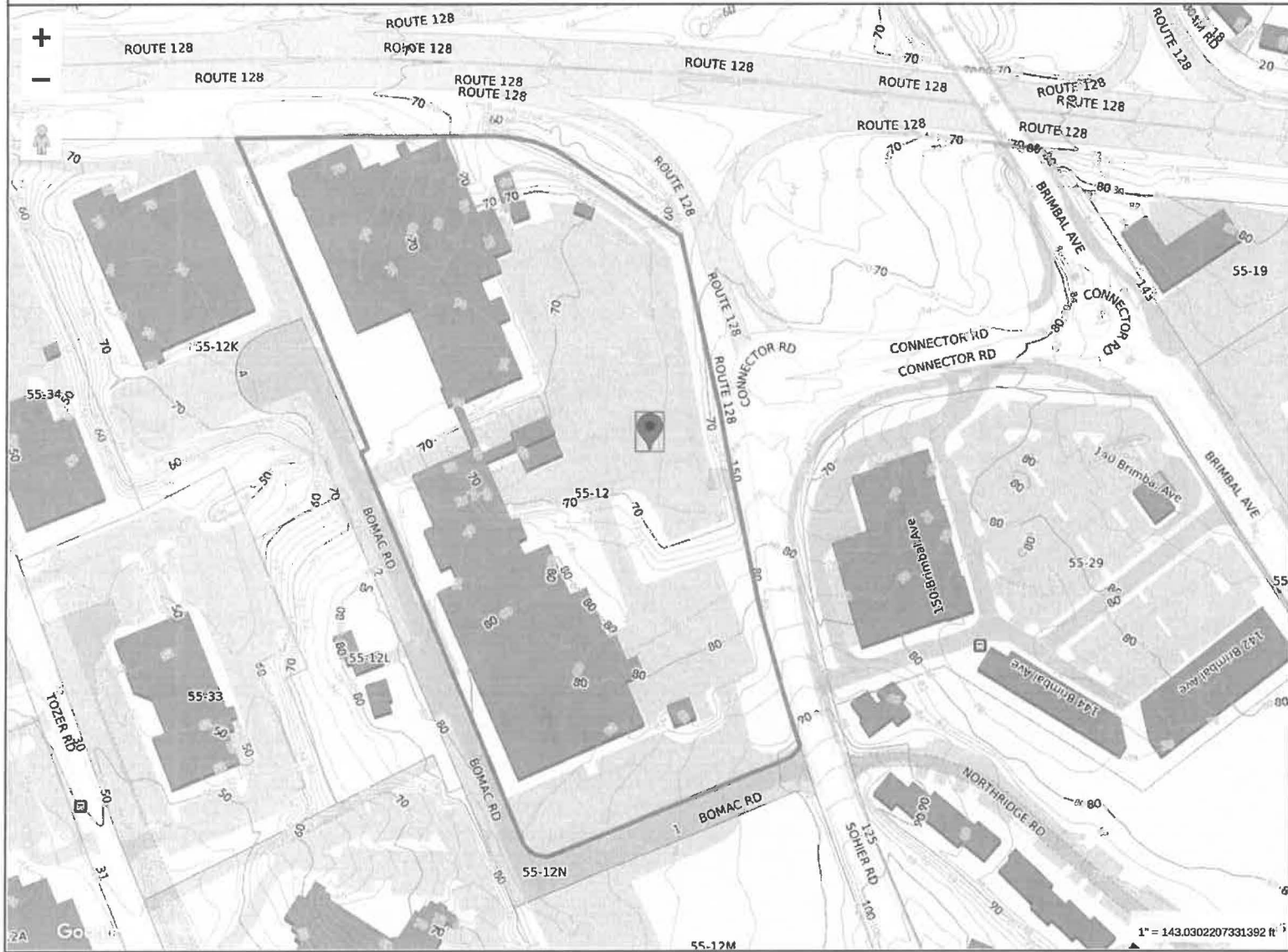
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature _____ *Robert A. Davenport, Jr.* _____ Date 5/3/24

Printed Name and Title Robert A. Davenport, Jr. Director, QA & Support Services

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



Property Information
Property ID 55-12
Location 150 SOHIER RD
Owner



MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Beverly, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated July 2023
Data updated December 2023

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

1" = 143.0302207331392 ft

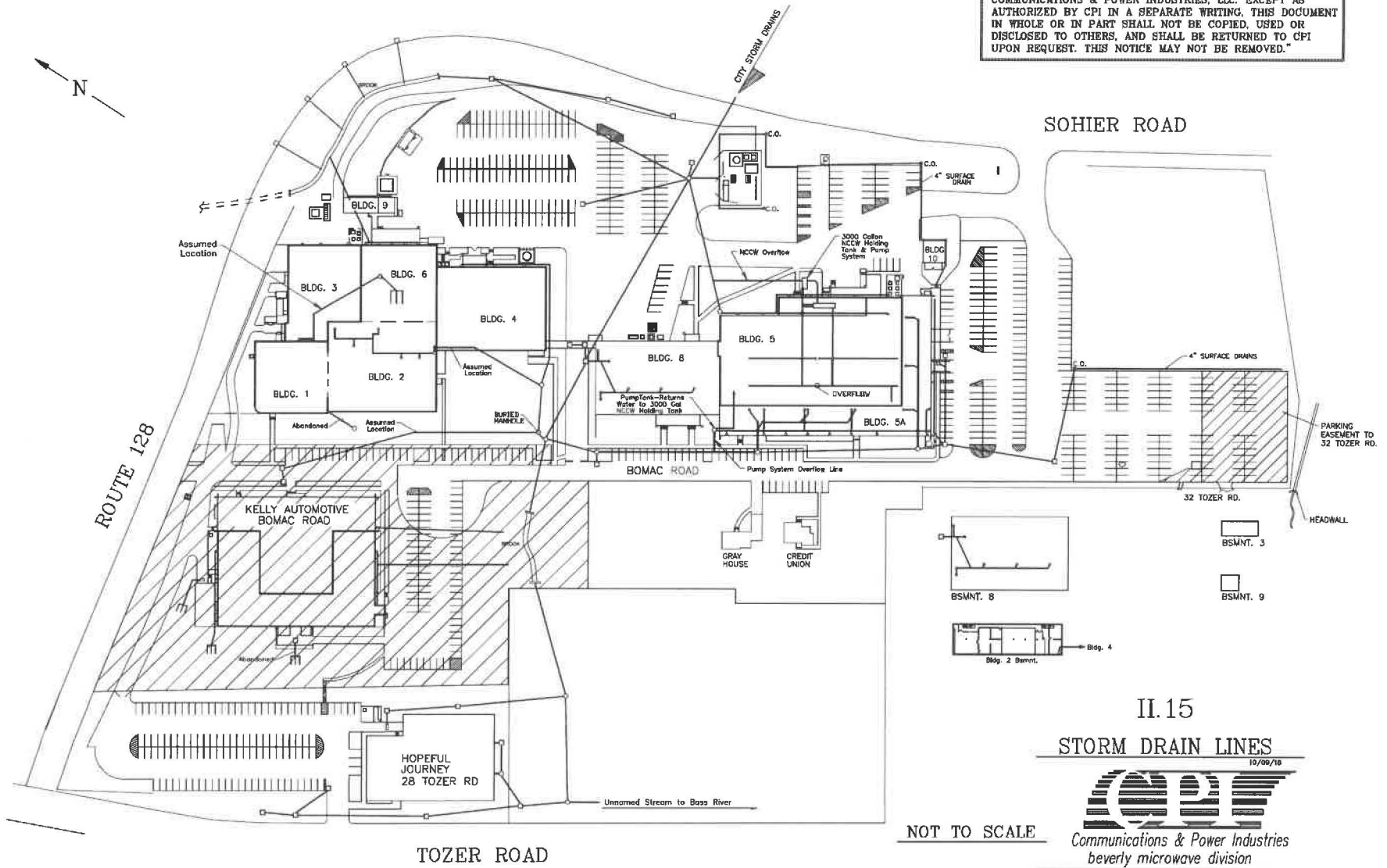
Map Theme Legends

Topography

Contours

- Major Index Contours
- Minor Contours

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SOHIER ROAD

ROUTE 128

BOMAC ROAD

32 TOZER RD.

TOZER ROAD

II.15

STORM DRAIN LINES

10/06/18

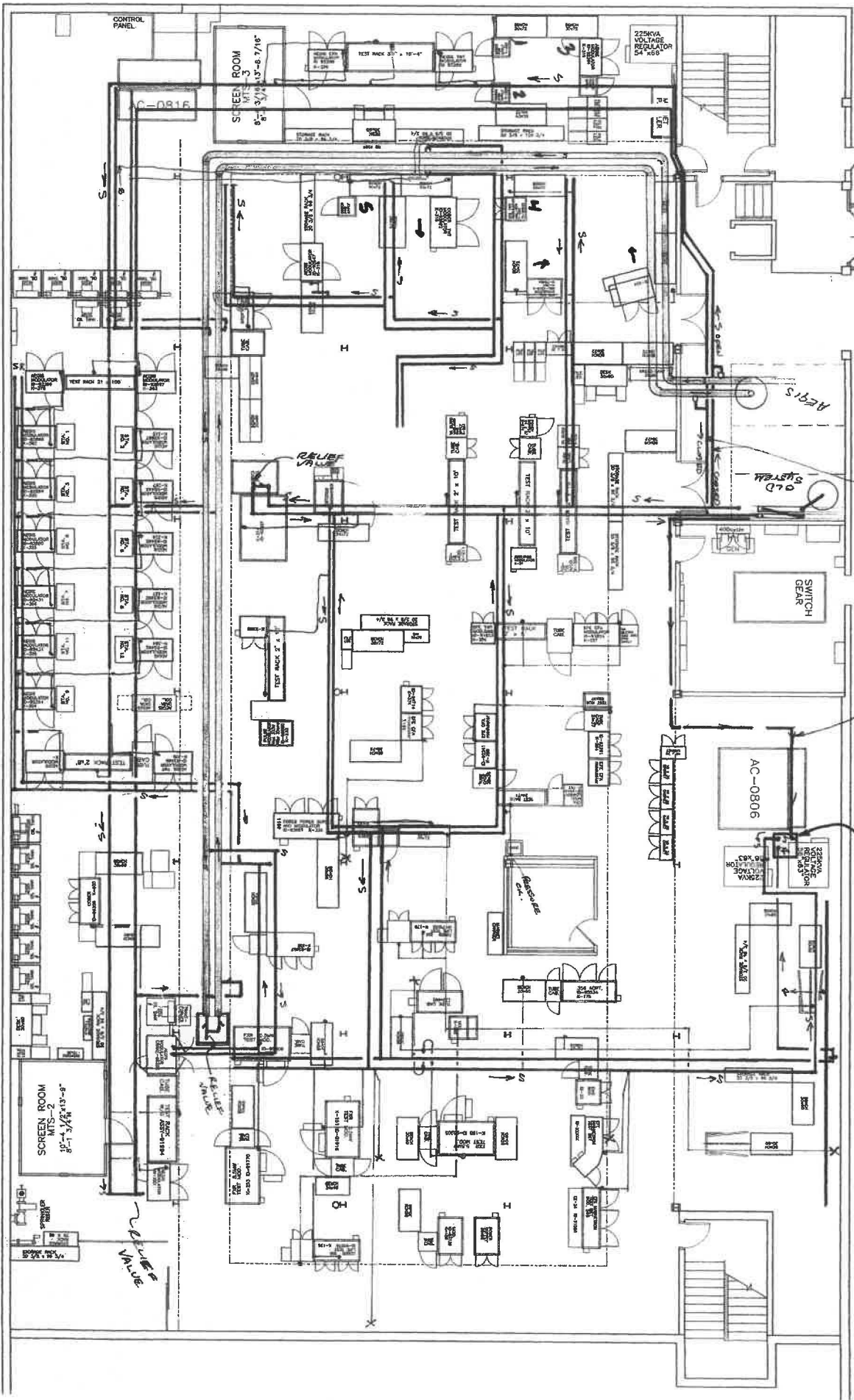


Communications & Power Industries
beverly microwave division

NOT TO SCALE

Approximate Scale: = 60'

08/01/19



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EMERGENCY
DEPENDENT

ROOM
TRANSFORMER
3 PHASE

DISTRIBUTION
EQUIPMENT

ROOM
TRANSFORMER
3 PHASE

Return to First
Floor / 1st Fl.

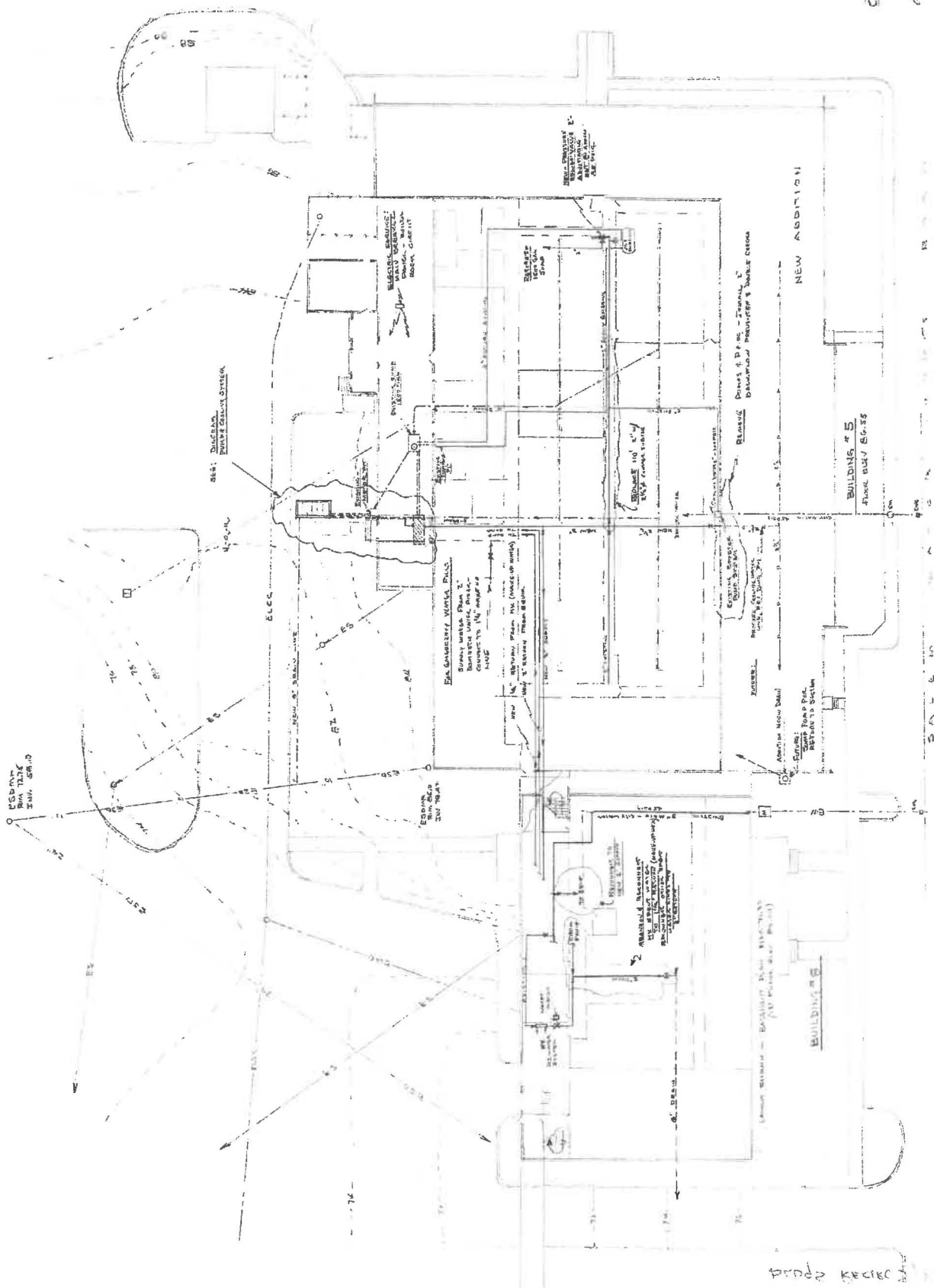
NCCW RETURN TO
BUILDING 5

5/7/01

100-1000

PROPOSED
RECULATING
COOLING WATER
SYSTEM

FEB 24 1933



100-1000



Property Information
Property ID 55-12
Location 150 SOHIER RD
Owner



**MAP FOR REFERENCE ONLY
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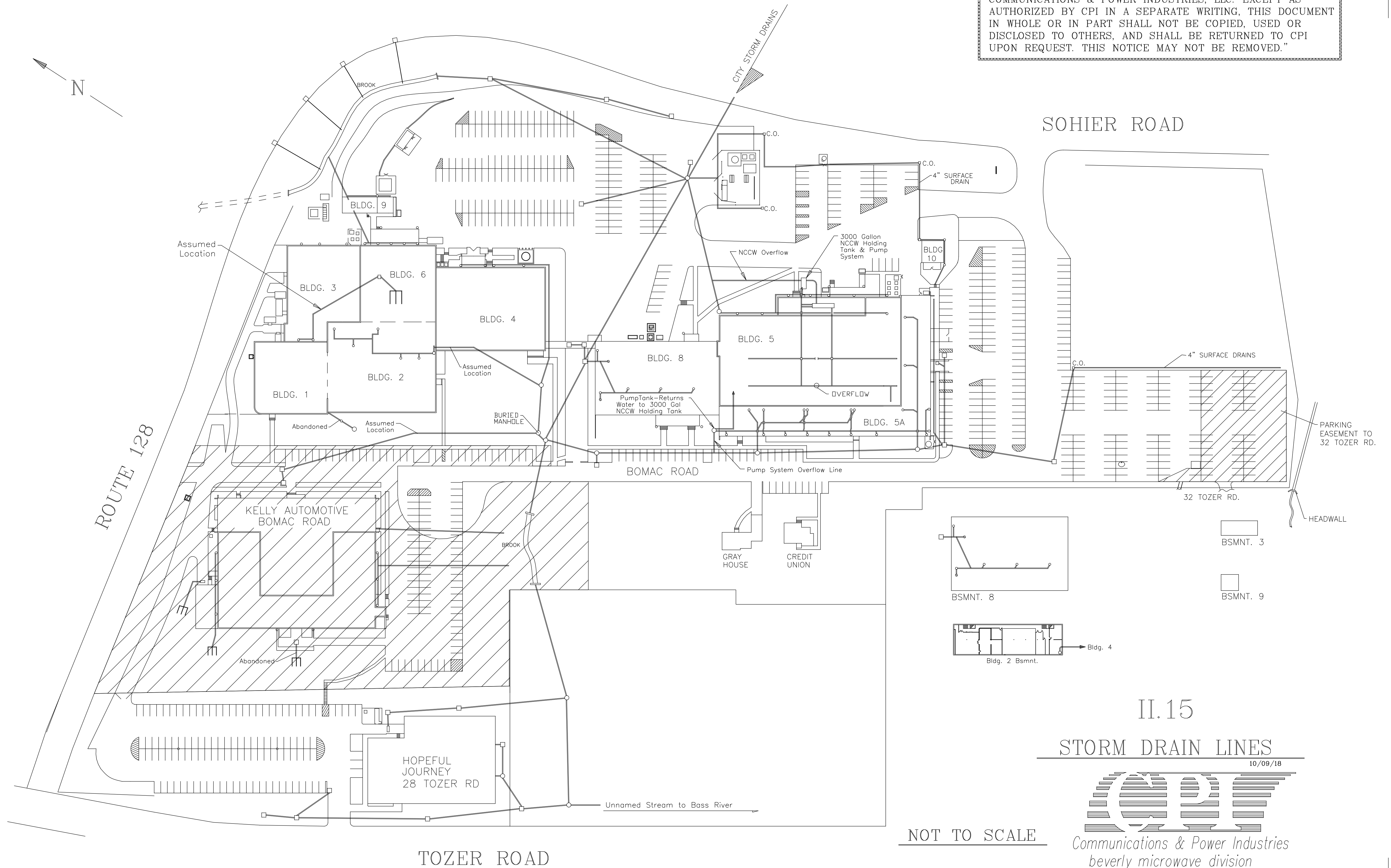
Map Theme Legends

Topography

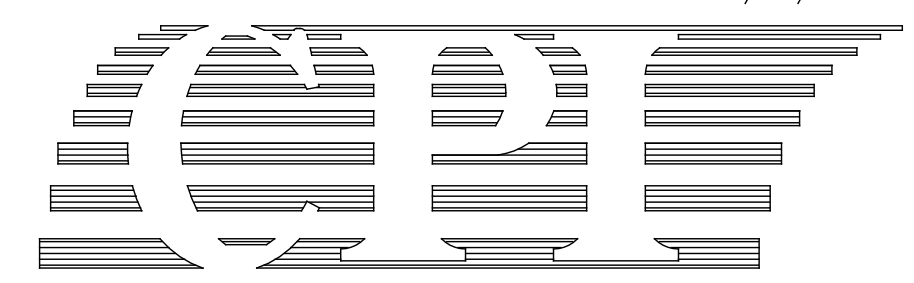
Contours

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II.15
STORM DRAIN LINES
10/09/18

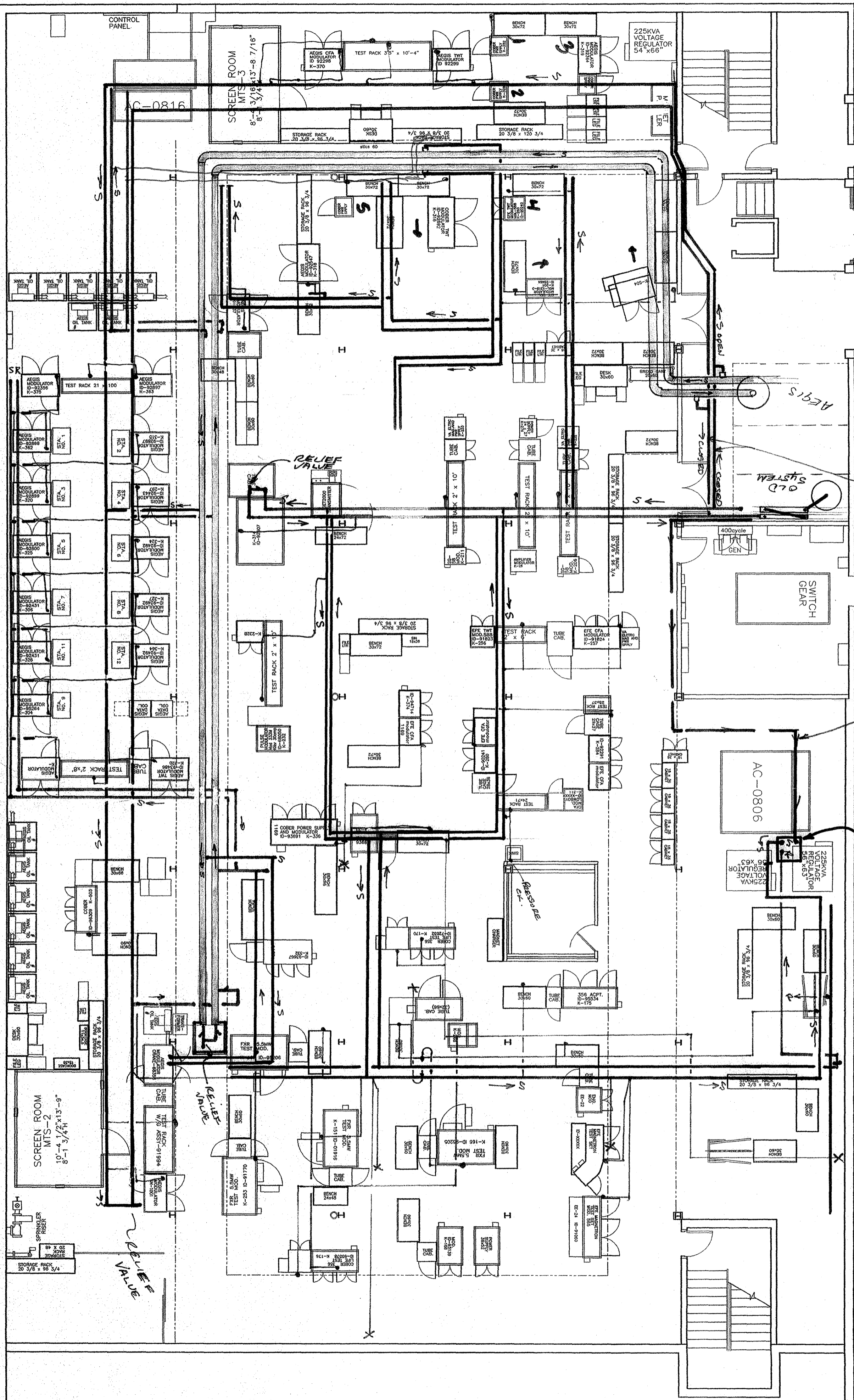


Communications & Power Industries
beverly microwave division

NOT TO SCALE

Approximate Scale: = 60'

08/01/19

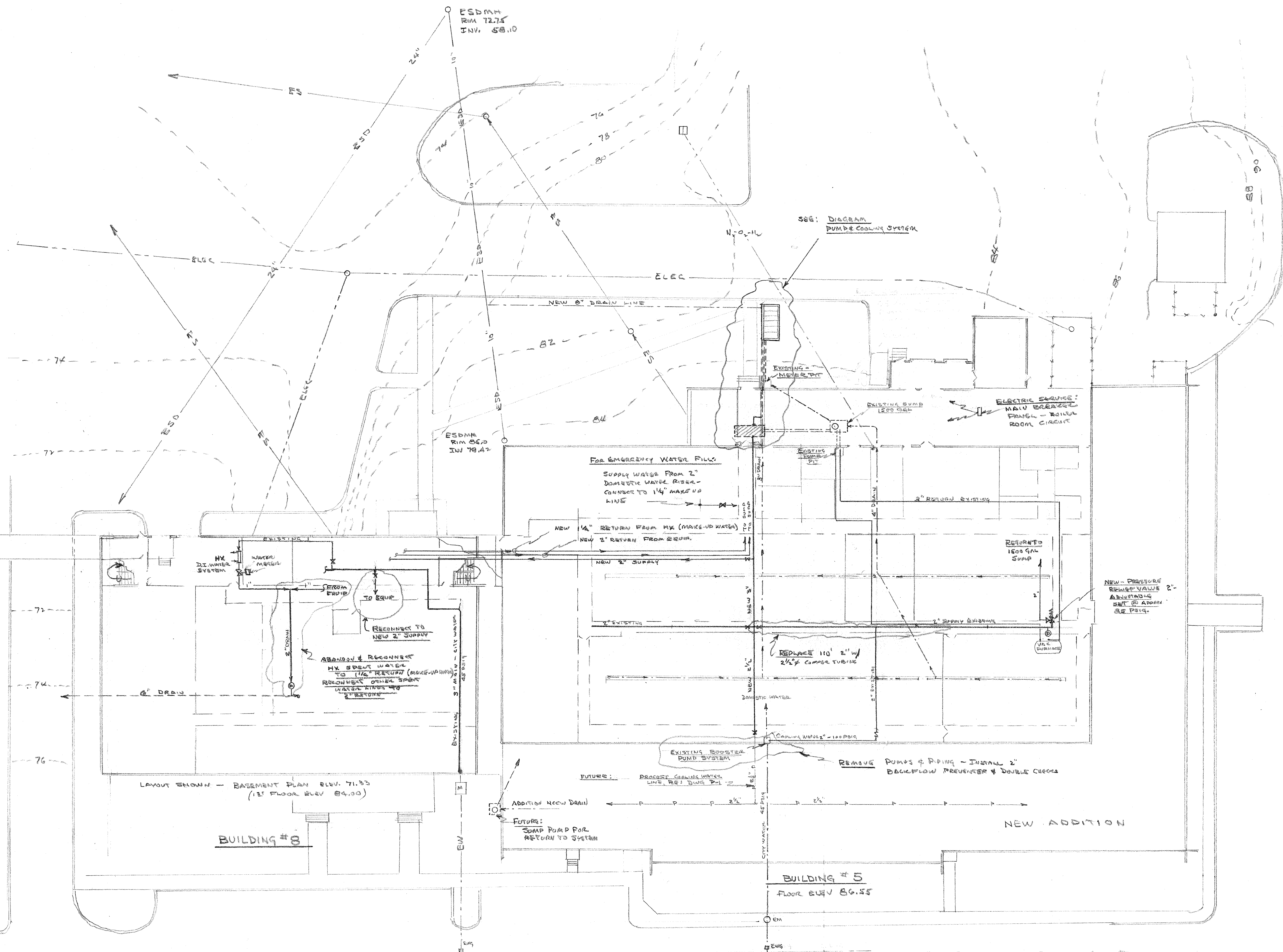


1" Supply only
 2" Supply only
 1 1/2" Supply only
 1" Supply only
 1 1/2" Supply only
 LINED HEAD

Bypass
 EMERGENCY GENERATOR
 300KVA TRANSFORMER 240V 3 PHASE
 SWITCH GEAR
 1000KVA TRANSFORMER

NEW RETURN TO BUILDING 5
 RETURN TO FIRST FLOOR BUILDING 5
 225KVA VOLTAGE REGULATOR 54 X 66
 225KVA VOLTAGE REGULATOR 54 X 66
 AC-0806
 400cycle GEN

5/7/61



SEE: DIAGRAM
PUMP & COOLING SYSTEM

For EMERGENCY WATER FILL
SUPPLY WATER FROM 2"
DOMESTIC WATER RISER -
CONNECT TO 1/4" MAKE-UP
LINE

ELECTRIC SERVICE:
MAIN BREAKER
PANEL - ROOM
ROOM CIRCUIT

NEW - PRESSURE
RELIEF VALVE 2"
ADJUSTABLE
SET @ APPROX
25 PSIG.

LAYOUT SHOWN - BASEMENT PLAN ELEV. 71.35
(1ST FLOOR ELEV. 84.00)

BUILDING #8

BUILDING #5
FLOOR ELEV. 86.55

PROPOSED
RECIRCULATING
COOLING WATER
SYSTEM

FEB. 26, 1981

RFD's (Seal) 1/8

B2 RECIRC COOLING WATER SYSTEM

S A L E M U N I V E R S I T Y M O A D