

**Hooksett Sewer Commission
Meeting Minutes
May 3, 2022**

This meeting was called to order at 12:00pm. Present were Chairman Sidney Baines, Commissioner Richard Bairam, Superintendent Ken Conaty and Assistant Superintendent John Clark. Commissioner Robert Duhaime came in at 12:10pm.

Approve and sign manifest

Approve Minutes: Commissioner Richard Bairam made motion to approve the Meeting Minutes and the Workshop Meeting Minutes from April 19, 2022. Chairman Sidney Baines seconded. All in favor, the motion was carried unanimously.

Read correspondence

Financial report: None

Scheduled Appointments: 12:00pm Erik McCann and Peter Ferguson from Unifirst **RE: uniform contract** Erik came in because Superintendent Conaty requested to terminate service with Unifirst. There was an 18% increase in services from Unifirst on the new contract that was offered to the Sewer Commission. Erik wanted to offer a discount on the contracted services to try and get the Sewer Commission to continue to use their services. However the Wastewater Treatment Plant has already invested in its own washer and dryer and bought their own uniforms for wastewater employees. Superintendent Conaty and the Sewer Commission would like to see how providing and cleaning their own uniforms work out before they make any decisions on whether or not they would be willing to return to Unifirst.

Superintendent Conaty's Report:

Plant:

- Plant continues to run excellent discharge numbers with no violations.
- The new Fire Alarm system at the plant is being tested today
- WET toxicity test was sent out April 5, 2022. Superintendent Conaty is just waiting for the results.

TIF Project:

- Underwood is working on the final design
- Granite woods MOU is done
- Superintendent Conaty is assisting with the TRI Town easement

Phase 3A Plant Upgrades:

- Materials are still arriving
- The baffle wall is up in the new BNR tank
- The next construction meeting is scheduled for May 10th at 1:00pm
- Veolia is attempting a second surcharge the first was \$60,000, this one is \$54,000. Superintendent Conaty has the PO's from PRB project for this week. (Attachment 1).

Solar:

- The repairs that need to be done on the solar panels are scheduled for next week
- Superintendent Conaty provided a solar update sheet to the sewer commission (Attachment 2).

Force Main Replacement/Martins Ferry PS Upgrade:

- Waiting on design

Dewatering Upgrade/Pilot Study:

- Recalculating numbers for proper press sizing

Asset Management:

- Work orders progressing
- Working on risk Assessment

Radio Communications Project:

- Working with EII on radio communications
- Working with village water on locating antenna on water tower
- Material cost \$62,000 (Attachment 3). Commissioner Richard Bairam made motion to approve the cost associated with locating an antenna on the water tower in the amount of \$62,537.46. Commissioner Robert Duhaime seconded. All in favor, the motion was carried unanimously.
- The sewer commission will encumber \$80,000.

Other:

- The new fence that will be put around the solar array at the sewer commission office is scheduled six to eight weeks out.
- The HB 398 Senate finance hearing was signed by the Governor on 4/18/22. The sewer commission will see monies after 7/1/2022.
- Waiting on the engineer for 1554 Hooksett Road car and dog wash project
- Waiting on the engineer with minor changes needed on the Legends Drive-Marmon Aerospace project.
- Superintendent Conaty shared a refined map of the Community Building layout plans that he had been given (Attachment 4).
- Superintendent Conaty has a meeting with NHDES planning to help him fill out applications. They recommended camera work and I & I study.

- The Hooksett Sewer Commission and Hooksett Village Water are working with NHDES on climate change assessments (Attachment 5).
- GE industrial inspection is scheduled for May 13, 2022.

Old Business: TIF updates are every third Tuesday of the Month

New Business:

- The Hooksett Sewer Commission would like to officially nominate Bruce Kudrick as the Sewer representative to the Heritage Committee. Commissioner Robert Duhaime made motion to nominate Bruce Kudrick as the sewer representative to the Heritage Committee. Commissioner Richard Bairam seconded. All in favor, the motion was carried unanimously.
- The next Sewer Commission Meeting is May 17, 2022.
- John Lyscars and group would like to meet with the Sewer Commission on Thursday May 5th at 6:00pm. The Sewer Commission needs to discuss if everyone is available for this request. The Sewer Commission was not available for the May 5th meeting slot but offered May 11th at 6:00pm. The office staff will contact John Lyscars and let him know.

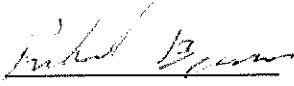
Non-Public session: Commissioner Richard Bairam made motion to go into non-public session under **RSA 91-A:3, II (a)** at 1:24pm. Commissioner Robert Duhaime seconded. All in favor, the motion was carried unanimously. Commissioner Richard Bairam made motion to come out of non-public session at 3:06pm. Commissioner Robert Duhaime seconded. All in favor, the motion was carried unanimously. No decisions were made.

Public Input: Hooksett resident Kathy McLean asked to attend the Hooksett Sewer Commission meeting. Kathy had some questions she wanted to ask the commission. Kathy wanted to know if the sign (that is located just off Eagwes Drive) is where the community center would be built? Superintendent Conaty showed Kathy a map of the area and explained that the Sewer Commission would only be giving a driveway easement to the land that the community center could potentially be built on. The land that the community center could potentially be built on is owned by the school not the Sewer Commission. Kathy asked about the land that the school transferred to the Sewer Commission years ago. Superintendent Conaty showed Kathy that, that parcel is located just next to the solar array behind the Sewer Commission office. That land is not the land that the Community center would be built on. Kathy discussed information that is being posted on the Hooksett Community Facebook page in regards to the community center. The sewer commission recommended that Kathy attend town council meetings in regards to the community center to get the information from the source. Kathy thanked the sewer commission for clearing up some misunderstandings that she had in regards to the community center and its location. The board thanked her for coming in.

Adjournment: Robert Duhaime made motion to adjourn at 3:06pm. Richard Bairam seconded. All in favor, the motion was carried unanimously.

Respectfully Submitted,


Billing Clerk


Richard Bairam (Clerk)



Construction Inc.
25 Country Club Road #706
Gilford, NH 03249
Ph. (603) 528-7703 paul@prbconstructioninc.com

Purchase Order

October 22, 2021

Veolia Water Technologies Inc. (DBA Kruger)
4001 Weston Parkway
Cary, NC 21513

Capital Improvements WWTF 3A Hooksett, NH

PO# CIH010

Purchase the following per Plans and Specification 11392

IFAS Aeration Equipment and Cylindrical Screens and in accordance with the attached Kruger Proposal dated 8/10/2021.

Quote includes delivery to site, all required material
specified

TOTAL \$ 389,000.00

Submittals to PRB Construction Inc electronically terry@prbconstructioninc.com

Delivery address; PRB Construction Inc.
C/O Hooksett WWTF
1 Egawes Dr.
Hooksett, NH 03106

Call 48 hours prior to delivery 603-387-4602

Terms;

15% upon Shop Drawing Approval by Engineer, not to exceed 60 days from Approval.

75% upon Delivery, Payment not to exceed 60 days from delivery

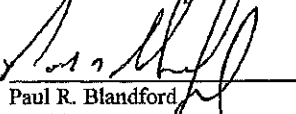
10% upon startup with engineers/ City's acceptance, Payment not to exceed 250 days from delivery


Payments will be made within 10 days of PRB Construction Inc. receiving payment from Town of Hooksett, NH or as stated above.

This project requires compliance with the American Iron and Steel requirement. If necessary, please provide documentation with submittal

No equipment delivery will be received without approval by PRB personal.

Terms and conditions per attached Kruger Proposal dated 8/10/2021 including but not limited to submittal and equipment delivery schedules and Veolia's warranty obligations, limitation of liability, exclusion of consequential damages, and indemnity obligations.


Paul R. Blandford
President


Authorized representative
Veolia Water Technologies Inc. (DBA Kruger)
Kruger

11/22/2021



Construction Inc.
25 Country Club Road #706
Gilford, NH 03249
Ph. (603) 528-7703 paul@prbconstructioninc.com

Purchase Order

October 22, 2021

Veolia Water Technologies Inc. (DBA Kruger)
4001 Weston Parkway
Cary, NC 21513

Capital Improvements WWTF 3A Hooksett, NH

PO# CIH010

Purchase the following per Plans and Specification 11392
IFAS Aeration Equipment and Cylindrical Screens and in accordance with the attached Kruger Proposal dated 8/10/2021.
Quote includes delivery to site, all required material
specified

TOTAL \$ 389,000.00

Submittals to PRB Construction Inc electronically terry@prbconstructioninc.com

Delivery address; PRB Construction Inc.
C/O Hooksett WWTF
1 Egawes Dr.
Hooksett, NH 03106

Call 48 hours prior to delivery 603-387-4602

Terms;
15% upon Shop Drawing Approval by Engineer, not to exceed 60 days from Approval.
75% upon Delivery, Payment not to exceed 60 days from delivery
10% upon startup with engineers/ City's acceptance, Payment not to exceed 250 days from delivery


Payments will be made within 10 days of PRB Construction Inc. receiving payment from Town of Hooksett, NH or as stated above.

This project requires compliance with the American Iron and Steel requirement. If necessary, please provide documentation with submittal

No equipment delivery will be received without approval by PRB personal.

Terms and conditions per attached Kruger Proposal dated 8/10/2021 including but not limited to submittal and equipment delivery schedules and Veolia's warranty obligations, limitation of liability, exclusion of consequential damages, and indemnity obligations.

Paul R. Blandford
President



Authorized representative
Veolia Water Technologies Inc. (DBA Kruger)
Kruger

11/22/2021



Kruger Proposal
Hooksett, NH
Cylindrical Screens w/ Supports,
Air Sparger, & Aeration Equipment

Submitted to: Thaddeus Webb
Underwood engineers

Submitted by: Robby Bailey
Application Engineer

Date: 8/10/2021

*This document is confidential and may contain proprietary information
It is not to be disclosed to a third party without the written consent of Veolia Water Technologies.*

Veolia Water Technologies Inc. (dba Kruger)
4001 Weston Parkway
Cary, NC 27513
tel. +1 919-677-8310 | fax. +1 919-677-0082
www.veoliawatertech.com

Water Technologies

Scope of Supply

Kruger is pleased to present our scope of supply which includes design and equipment procurement, as related to the equipment specified. Please note that Kruger's scope does not include any performance test and/or process guarantee. There are no guarantees provided by Seller except for those expressed herein. Seller assumes no responsibility for the selection of the equipment in this order and shall not be liable in connection therewith.

Design and Engineering

Kruger will provide engineering and design for the equipment as follows:

- Equipment layout drawings.
- Equipment installation instructions.
- Equipment installation manual.

Scope Equipment

Equipment Items	Qty	Description
Cylindrical Screen Assemblies with Supports	18	<ul style="list-style-type: none"> • A total of eighteen (18) screen assemblies. 304L SS. • The screens and supports will require unloading & field erection by others. • Contractor shall provide all bolts, nuts, and washers for cylindrical screen attachment to wall flange. • Wall inserts/flanges to be provided by the Contractor.. • All hardware will be 18-8 stainless. • Cylindrical screens and spargers shall be supported by cross beams and columns.
Air Sparges	Yes	<ul style="list-style-type: none"> • An air sparger in 304L SS will be provided to scour the cylindrical screens.
Medium Bubble Aeration Grids	2 Reactors	<ul style="list-style-type: none"> • Aeration Grids for two (2) reactors. All piping and supports will be of 304L SS. • The aeration grids & supports will require unloading & field erection by others. • Please note that all connecting materials provided by Contractor must be of compatible material to the AnoxKaldnes grids. If not compatible, insulated pipe must be provided. • Veolia shall provide all supports and connection fasteners. All hardware shall be 18-8 stainless.

Scope of Supply BY INSTALLER/PURCHASER

The contractor's scope of supply for the equipment should include, but is not limited to, the following items:

- All civil/site and electrical work.
- A concrete foundation for the tanks.
- Reactors to house the treatment equipment.
- All provisions for interconnecting piping.
- Unloading, storage and installation of equipment.

Schedule

- Shop drawings will be submitted within 4-6 weeks of receipt of an executed contract by all parties.
- All equipment will be delivered within 14-16 weeks after receipt of written approval of the shop drawings.
- Installation manuals will be furnished upon delivery of equipment.

Pricing

The price for the scope equipment, as defined herein, is: **\$389,000***

*Pricing is FOB shipping point, with freight allowed to the job site. This pricing does not include any sales or use taxes. In addition, pricing is valid for thirty (30) days from the date of issue. Veolia shall be entitled to an adjustment of the Contract Price and/or time of performance in connection with exceptional circumstances beyond Veolia's control such as, without limitation, raw materials shortages, sudden fluctuations of raw material pricing, extension, suspension or delay of the the project schedule, sudden disruption on production of Goods and/or spare parts required for the Project, which may affect the execution of Veolia's timely performance of the Work or affect it financially. Veolia shall notify the Owner accordingly within ten (10) days from the actual knowledge of such circumstances. Following submission of such notice, Veolia shall provide relevant justification reasonably satisfactory to the Owner to proceed to the necessary adjustments to the Contract Price and/or time of performance under the Contract.

Please note that the above pricing is expressly contingent upon the items in this proposal and are subject to Kruger Standard Terms of Sale detailed herein.

Kruger Standard Terms of Payment

The terms of payment are as follows: See PO #CIH010

- 10% on receipt of fully executed contract
- 15% on submittal of shop drawings
- 75% on the delivery of equipment to the site

Payment shall not be contingent upon receipt of funds by the Contractor from the Owner. There shall be no retention in payments due to Kruger All other terms per our Standard Terms of Sale are attached.

All payment terms are net 30 days from the date of invoice. Final payment not to exceed 120 days from delivery of equipment.

STATEMENT REGARDING COVID-19

Veolia shall not be held liable in the event of a non-compliance with its obligations set forth herein to the extent such non-compliance is due to the consequences of the Covid-19 pandemic including without limitation (i) obligation to comply with the legislation enacted or measures taken by the authorities to address the Covid-19 pandemic (including mandatory closures, requisitions, transport limitations, social distancing requirements), (ii) observance of hygiene and security rules and recommendations resulting from the Covid-19 pandemic, (iii) inability to supply or distribute to relevant personnel appropriate personal protective equipment for the tasks to be performed, as a result of shortages of supply resulting from the Covid-19 pandemic, (iv) inability of a Veolia subcontractor or supplier to comply with its obligations for the reasons mentioned above; and to the extent the resulting impediments cannot be reasonably overcome.

In the event such consequences of the Covid-19 pandemic render Veolia's performance hereunder more onerous than could have been anticipated at the date hereof the parties shall negotiate alternative contractual terms, including for delivery/performance dates or service levels, which reasonably allow for the impact of the consequences of the Covid-19 pandemic referred to here above.

Kruger Standard Terms of Sale

1. Applicable Terms. These terms govern the purchase and sale of the equipment and related services, if any (collectively, "Equipment"), referred to in Seller's purchase order, quotation, proposal or acknowledgment, as the case may be ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.

2. Payment. Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation provides otherwise, freight, storage, insurance and all taxes, duties or other governmental charges relating to the Equipment shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. All payments are due within 30 days after receipt of invoice. Buyer shall be charged the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Seller's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval.

See PO
CIH010

3. Delivery. Delivery of the Equipment shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, Delivery terms are F.O.B. Seller's facility.

4. Ownership of Materials. All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Equipment. Buyer shall not disclose any such material to third parties without Seller's prior written consent.

5. Changes. Seller shall not implement any changes in the scope of work described in Seller's Documentation unless Buyer and Seller agree in writing to the details of the change and any resulting price, schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.

6. Warranty. Subject to the following sentence, Seller warrants to Buyer that the Equipment shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship. The foregoing warranty shall not apply to any Equipment that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. If Buyer gives Seller prompt written notice of breach of this warranty within 18 months from delivery or 1 year from beneficial use, whichever occurs first (the "Warranty Period"), Seller shall, at its sole option and as Buyer's sole remedy, repair or replace the subject parts or refund the purchase price therefore. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (a) operating and maintaining the Equipment in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller). THE WARRANTIES SET FORTH IN THIS SECTION ARE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO SECTION 10 BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

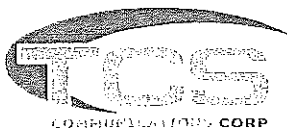
7. Indemnity. Seller shall indemnify, defend and hold Buyer harmless from any claim, cause of action or liability incurred by Buyer as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (a) promptly, within the Warranty Period, notifying Seller of any claim, and (b) providing reasonable cooperation in the defense of any claim.

8. Force Majeure. Neither Seller nor Buyer shall have any liability for any breach (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government or any other cause beyond such party's reasonable control.

9. Cancellation. If Buyer cancels or suspends its order for any reason other than Seller's breach, Buyer shall promptly pay Seller for work performed prior to cancellation or suspension and any other direct costs incurred by Seller as a result of such cancellation or suspension.

10. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

11. Miscellaneous. If these terms are issued in connection with a government contract, they shall be deemed to include those federal acquisition regulations that are required by law to be included. These terms, together with any quotation, purchase order or acknowledgement issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement without Seller's prior written consent. The Agreement shall be governed by the laws of the State of North Carolina without regard to its conflict of laws provisions.



PO Box 5192, 85 Lafayette Road
Salisbury, MA 01952
Phone (978) 465-7932 Fax (978) 462-8980 www.tcscommunications.com

BUDGETARY PRICING

DATE: April 15, 2022
QUOTE # Hooksett Wastewater SCADA radio system

Bill To: Hooksett Wastewater
1 Egawes Drive
Hooksett, NH 03106

Ship To: Same
Attn: Ken Conaty
hooksettsewer@comcast.net
603-485-7000

SCADA RADIO SYSTEM PRICING IS PROVIDED FOR BUDGETARY PURPOSES ONLY, ALL PRICING IS SUBJECT TO FINAL SITE INSPECTIONS BY INSTALLATION CONTRACTORS FOR ELECTRICAL, SCADA INTEGRATION, AND ANY OTHER RELATED CONTRACTOR SERVICES FOR COMPLETION

SALESPERSON	SITE NAME	P.O. NUMBER	SHIP DATE	SHIP VIA	F.O.B. POINT	TERMS
Dean Marengi	Hooksett NH					NET 30

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
		SCADA RADIO SYSTEM FOR 6 EXISTING LOCATIONS + REPEATER		
8	140-5028-504	NextGen RF Wireless IP router, 215-240 MHz (includes 1 spare router)	\$2,240.00	\$17,920.00
7	IS50-24	RS Pro power supply, 110VAC to 24VDC 5 amp, din rail mount	\$145.00	\$1,015.00
7	VHF50HN-B	Polyphaser surge arrestor, N female connectors, 100-700 MHz	\$136.78	\$957.46
1	Z3441	PC TEL 5.0db fiberglass omnidirectional antenna (Manor Drive Tank)	\$1,035.00	\$1,035.00
1	Y6625D	Mobile Mark 8.6db gain Yagi antenna (Golden Gate PS)	\$453.20	\$453.20
5	Y6623D-200	Mobile Mark 7.0db gain Yagi antennas (WWTP & 4 REMOTES)	\$355.80	\$1,779.00
400	LMR-400	Times Microwave 3/8" standard coaxial cable	\$1.99	\$796.00
120	LMR-600	Times Microwave 1/2" low loss coaxial cable (Manor Drive Tank)	\$3.99	\$478.80
28	Coax connectors	N male & TNC male right angle coax connectors	\$36.00	\$1,008.00
1	FCC license	217-220 MHz FCC telemetry license including coordinators fee	\$995.00	\$995.00
7	TCS services	Radio installation, programming, startup	\$900.00	\$6,300.00
1	Electrical install	Install antenna system at Manor Drive Tank (estimated)	\$5,000.00	\$5,000.00
5	Electrical install	Install antenna systems at 5 locations (excludes Golden Gate)	\$3,500.00	\$17,500.00
1	Electrical install	Install 45' utility pole & antenna system at Golden Gate	\$5,000.00	\$5,000.00
1	Bandpass filter	EMR or Telewave Bandpass Cavity Filter (if needed for Manor Drive)	\$800.00	\$800.00

Authorized Signature:	Dean A. Marengi Vice President
Date:	April 15, 2022

SUBTOTAL	\$61,037.46
TAX RATE	0.00%
SALES TAX	-
ESTIMATED SHIPPING & HANDLING	1,500.00
TOTAL	\$ 62,537.46

If you have any questions concerning this quotation, please contact Dean Marengi, V.P.
978-465-7932 (office) 508-726-3482 (cell) email: Dean.Marengi@tcscommunications.com

THANK YOU FOR YOUR BUSINESS!

Technical Specification

200-250MHz Specify Center Frequency

Y6625D

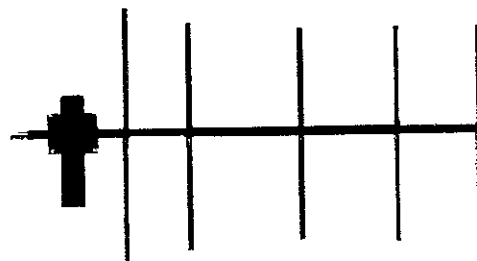
FULLY WELDED YAGI
8.6dBd GAIN

High Performance: These antennas provide 8.6dBd, wide band performance.

Rugged and weatherproof: The construction of our heavy duty end fed yagis feature aluminum heavy wall tubing and 3/8" solid elements. All exposed areas are coated with UV polyester. The feed system is completely enclosed.

Lightweight and Durable: These antennas are easily installed by one person.

Termination : Direct Female Type "N"



ELECTRICAL SPECIFICATIONS:

GAIN: 8.6dBd

FREQUENCY: 200-250MHz
4MHz@1.5:1
8MHz@2:1

FRONT TO BACK: 18dB

VERT BEAMWIDTH: 45°

HORIZ BEAM WIDTH: 55°

RATING : 300 watts, 50 ohms impedance

MECHANICAL SPECIFICATIONS:

MATERIAL: 3/4" (1.9cm) dia heavy wall aluminum

3/8" (9.5mm) solid elements

FINISH: UV inhibited polyester coat

LENGTH: 52" (1.3m)

WIDTH: 30" (76cm) longest element

WEIGHT: 3 lbs. (1.3kg)

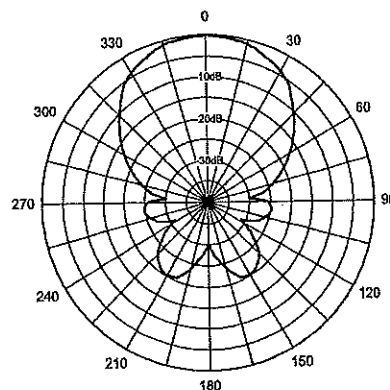
MOUNT: 2 3/8" (6cm)

FLAT PLATE AREA: .5 ft²

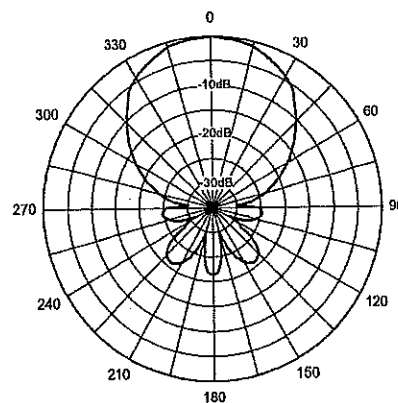
WIND RATING: 125 MPH (201kph)

WIND LOAD: 30 lbs (13.6kg)

Horizontal Pattern



Vertical Pattern



INSTALL YAGI ON
CONDUIT WITH
WEATHERHEAD
EXTENDING 5 FEET
ABOVE THE ROOF

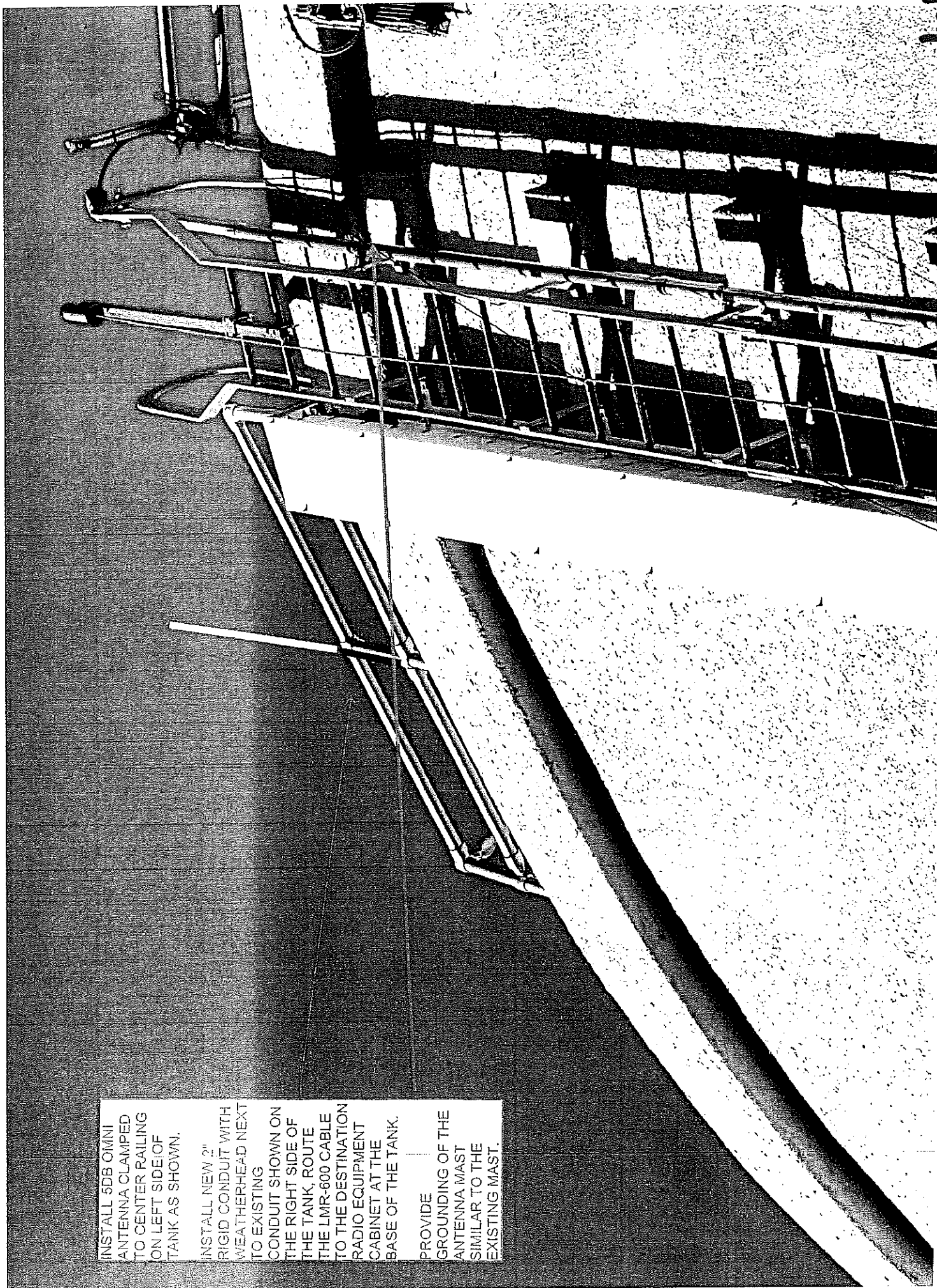
INSTALL GROUND
ROD WITH #6
GROUNDING WIRE TO
ANTENNA CONDUIT.



INSTALL 5DB OMNI
ANTENNA CLAMPED
TO CENTER RAILING
ON LEFT SIDE OF
TANK AS SHOWN.

INSTALL NEW 2"
RIGID CONDUIT WITH
WEATHERHEAD NEXT
TO EXISTING
CONDUIT SHOWN ON
THE RIGHT SIDE OF
THE TANK, ROUTE
THE LMR-600 CABLE
TO THE DESTINATION
RADIO EQUIPMENT
CABINET AT THE
BASE OF THE TANK.

PROVIDE
GROUNDING OF THE
ANTENNA MAST
SIMILAR TO THE
EXISTING MAST.

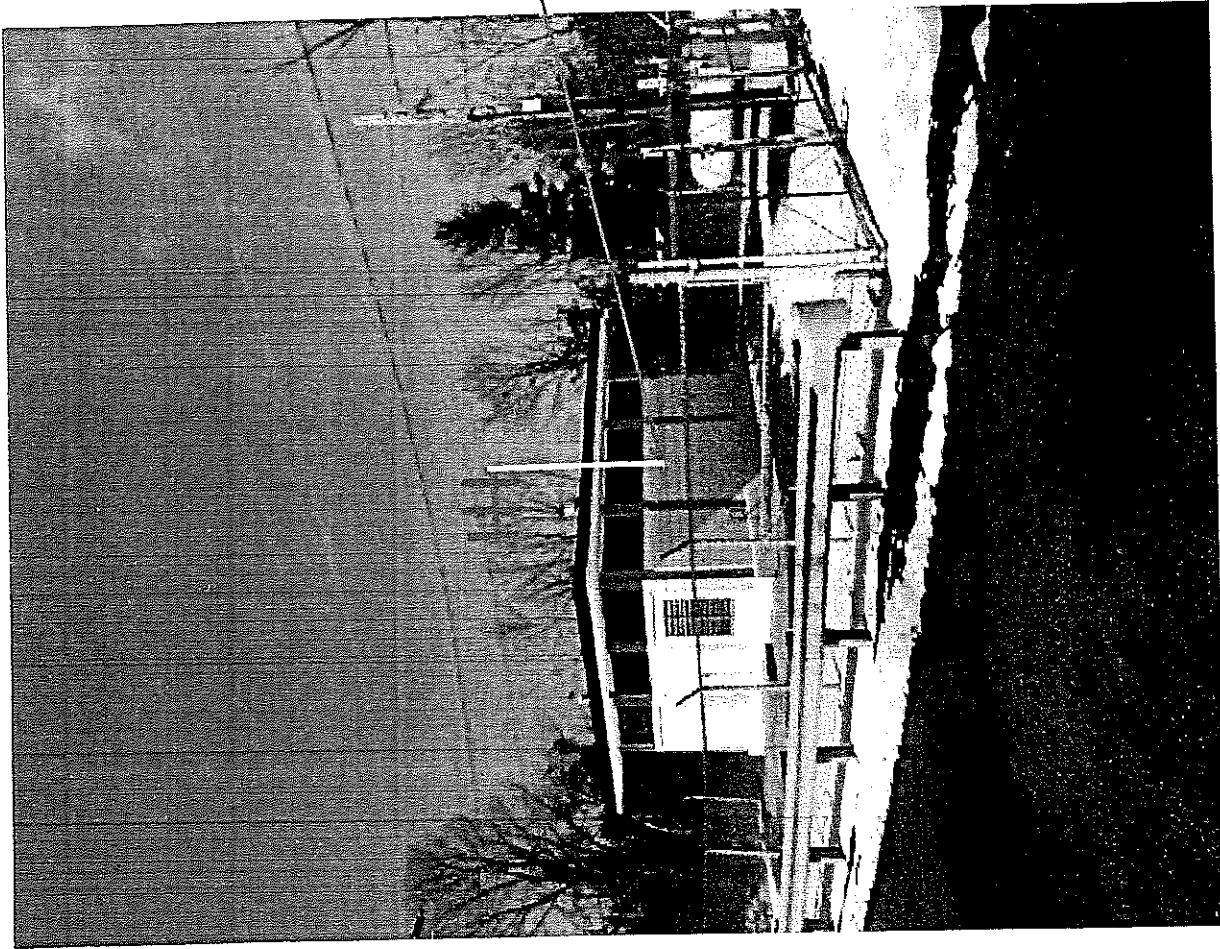


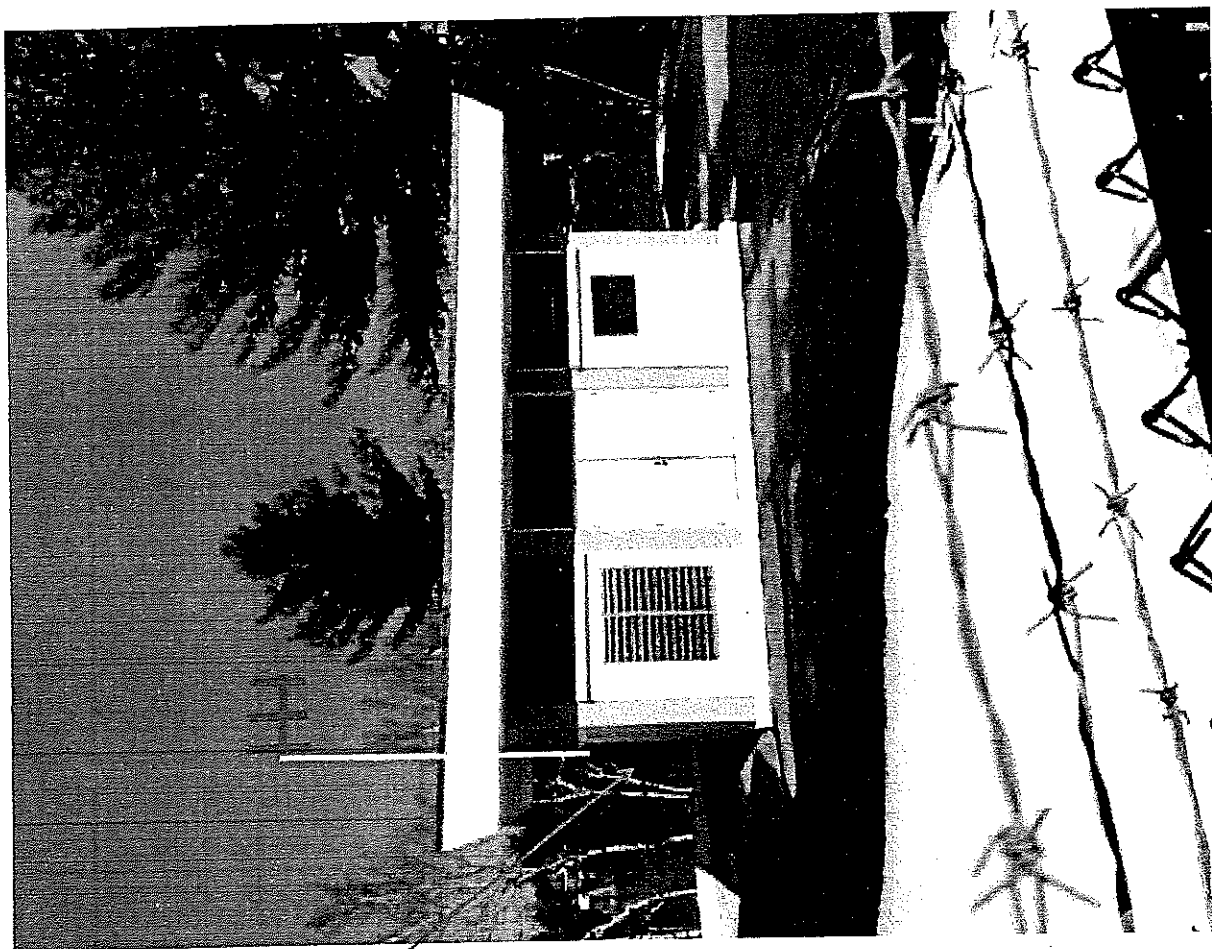
3

INSTALL YAGION
CONDUIT WITH
WEATHERHEAD
EXTENDING 5 FEET
ABOVE THE ROOF.

INSTALLER TO
DETERMINE IF ROOF
PENETRATION WILL
BE REQUIRED FOR
MAST OR IF
STANDOFF MOUNTS
WILL BE USED TO
ALLOW FOR
CLEARANCE OF
OVERHANG.

INSTALL GROUND
ROD WITH #6
GROUNDING WIRE TO
ANTENNA CONDUIT.





INSTALL YAGI ON
CONDUIT WITH
WEATHERHEAD
EXTENDING 5 FEET
ABOVE THE ROOF.

INSTALLER TO
DETERMINE IF ROOF
PENETRATION WILL
BE REQUIRED FOR
MAST OR IF
STANDOFF MOUNTS
WILL BE USED TO
ALLOW FOR
CLEARANCE OF
OVERHANG.

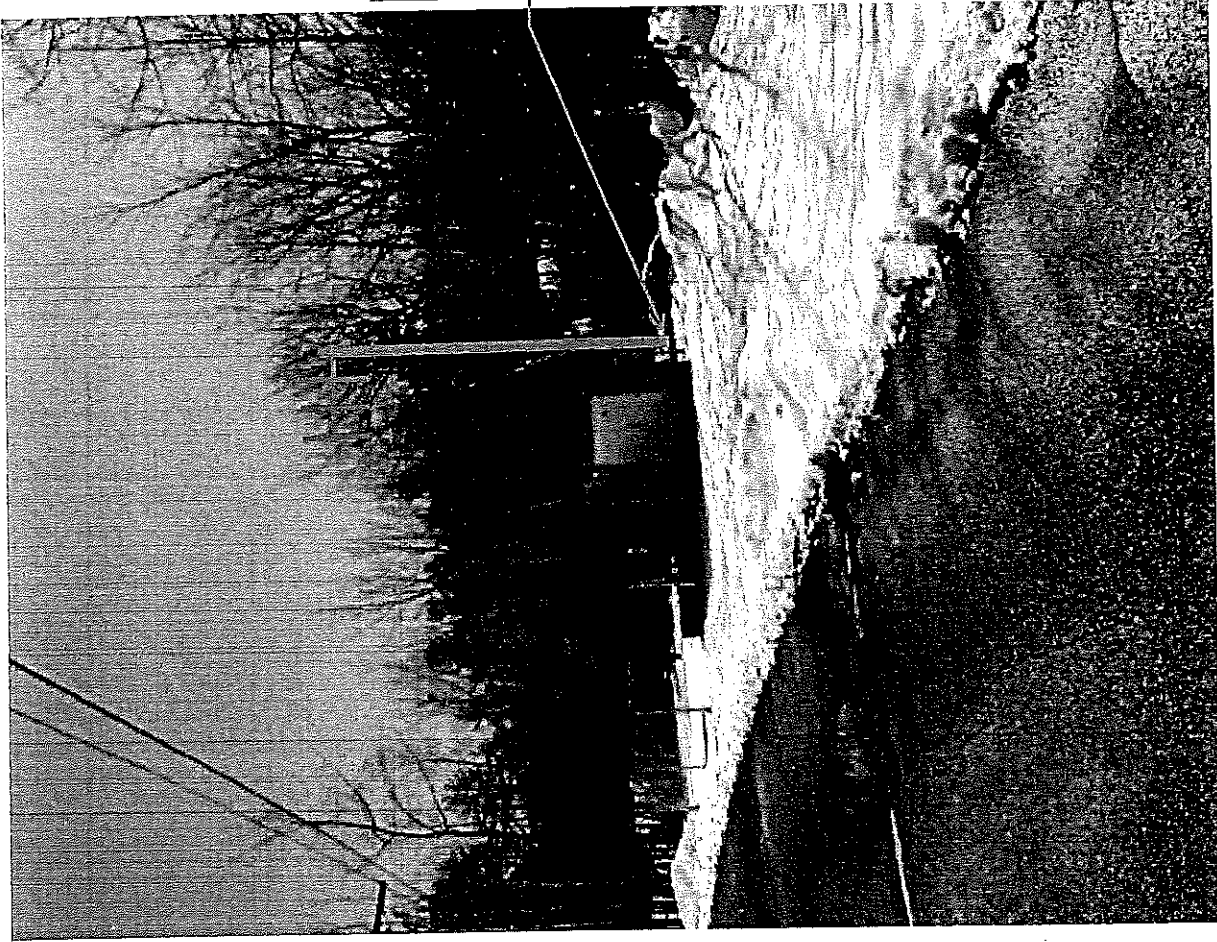
INSTALL GROUND
ROD WITH #6
GROUNDING WIRE TO
ANTENNA CONDUIT.

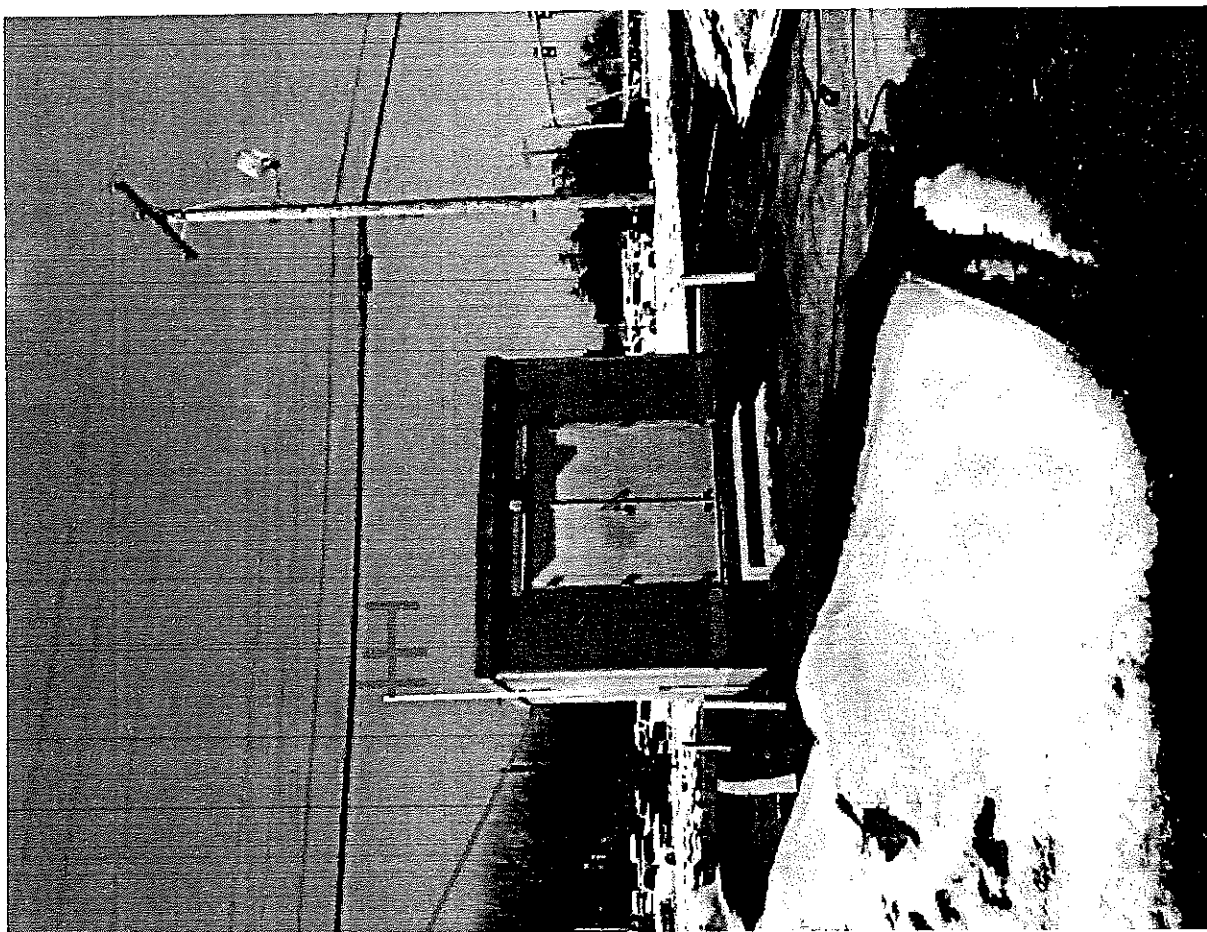
INSTALL YAGION
CONDUIT WITH
WEATHERHEAD
EXTENDING 5 FEET
ABOVE THE ROOF.

INSTALLER TO
DETERMINE IF ROOF
PENETRATION WILL
BE REQUIRED FOR
MAST OR IF
STANDOFF MOUNTS
WILL BE USED TO
ALLOW FOR
CLEARANCE OF
OVERHANG.

INSTALL GROUND
ROD WITH #6
GROUNDING WIRE TO
ANTENNA CONDUIT.

INSTALL 9DB YAGI
ANTENNA ON TOP OF
45 FOOT AGL UTILITY
POLE WITH CONDUIT
ATTACHED TO THE
POLE. INSTALL THE
POLE IN THE BEST
LOCATION ON THE
PROPERTY TBD
BASED ON SITE
INSPECTION BY
INSTALLER.



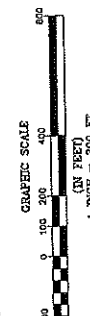


INSTALL YAGI ON
CONDUIT WITH
WEATHERHEAD
EXTENDING 5 FEET
ABOVE THE ROOF

INSTALL GROUND
ROD WITH #6
GROUNDING WIRE TO
ANTENNA CONDUIT.



- 1) Over the years, a great number of residents and town officials have contributed ideas to create a Community Center/River Park for the town's benefit. These plans represent the results and "overall" layout for this vision to be phased as necessary.
- 2) This plan is based on existing tax maps and other base plan information for conceptual purposes only.
- 3) All proposed construction and maintenance shall not burden the town, and shall be privately funded/self supporting.
- 4) Note - the final land acquisitions of town parcels have been discussed, but have not been approved at this time. In addition, the agreements involving the use/restrictions of the river park section are being finalized with the Manchester Reviewing Alliance (MRA).

[illegible][illegible]



The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner



Welcome to the NHDES Climate Change Vulnerability Assessment Program

New Hampshire Department of Environmental Services (NHDES) is currently in the final stages of contracting with our RFQ-selected consultant, Weston & Sampson with teammate SLR (W&S Team), to conduct climate change vulnerability assessments (CCVA) for drinking water and wastewater systems for your community. NHDES pre-selected the following communities to participate in this program:

Community/System Name	NH Region Coastal/Non-Coastal	Asset Management Software
Plymouth Village Water and Sewer District	Non-Coastal	Elements
Rochester	Non-Coastal	Beehive
Exeter	Coastal	People GIS
Hooksett	Non-Coastal	ESRI/Google Forms
Merrimack	Non-Coastal	VueWorks (WW) Elements (DW)
Salem	Non-Coastal	VueWorks
Keene	Non-Coastal	Cartegraph
Milford	Non-Coastal	ESRI
Dover	Coastal	VueWorks

This CCVA program is being funded through a combination of American Rescue Plan Act (ARPA), Drinking Water State Revolving Fund (DWSRF) and Clean Water State Revolving Fund (CWSRF) funds. There is no cost to communities to participate in the program. However, we do ask that communities track their time and commitment to inform future CCVAs that may be performed in other communities. NHDES asks the participating communities to commit to program involvement so they can each get the maximum benefit from the program. NHDES is currently finalizing a detailed scope of work with the W&S Team and will then proceed with seeking NH Governor and Council approval. The highlights of the program with a general guide for time/resource commitment from the communities as well as the anticipated benefits to the communities are described below.

NHDES anticipates the program getting started during the summer of 2022 and spanning a 2-year period for completion. Some participating communities will be completed prior to others depending on the order selected by the W&S Team. Since the program will start during the summer, work will initially focus on data collection tasks, so staff are not pulled away from community construction projects and vacation schedules. In September, a kick-off meeting will be held collectively with key staff from all 9 participating communities. Attendance at this meeting will be **mandatory** to participate in the program.

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095
(603) 271-3503 • (603) 271-2867 • TDD Access: Relay NH 1-800-735-2964

The W&S Team will be requesting data related to the assets to be included in the CCVA. NHDES will provide information that it has available, and the rest of the requested information will come from the communities. Over the 2-year period of the program, workshops including all participating communities will be held approximately every 6 months. Program updates, idea exchanges and peer to peer learning will be the priority for these workshops. Attendance at each of these workshops will be **mandatory** to participate in the program.

The W&S Team will conduct site visits to each community and will tour all wastewater and drinking water assets proposed to be included in the program. Knowledgeable community staff are required to accompany the W&S Team during these site visits.

After conducting the CCVA, the W&S Team will provide each community with:

- A community-specific report detailing the CCVA findings with recommended actions.
- Standard operating procedures (SOPs) for incorporating the identified vulnerable assets into the community's asset management program so the findings of the CCVA can be used to adjust the criticality score of assets.
- Training for community staff will also be provided relative to implementing the SOPs.
- A description of applicable funding opportunities for implementation of the CCVA findings and associated timing for each funding opportunity.
- A presentation to community leadership to review the CCVA findings and recommendations.
- A community-specific ArcGIS story map for inclusion on the community's webpage.

The W&S Team will also work with the community's Emergency Management Director, or equivalent, to incorporate the CCVA findings into the community's Hazard Mitigation Plan (HMP). The success of this program depends on the active participation of the selected communities. Since there is no financial commitment from the communities, we request signatures of commitment from the community leadership as well as from the system superintendents.

Please sign below and return via email to Sharon Nall, P.E. at Sharon.L.Nall@des.nh.gov.

I hereby commit to participating in the NHDES CCVA program as contracted with the W&S Team.

Andre L. Carron, Town Administrator
Printed Name, Title (Community/System Leadership)

[Signature]
Signature

Ken Conaty - Wastewater Superintendent
Printed Name, Title (Wastewater Superintendent)

[Signature]
Signature

Mike Heidorn, Sup't.
Printed Name, Title (Drinking Water Superintendent)

[Signature]
Signature