

NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION

One F.A. Orechio Drive Wanaque, New Jersey 07465

Notice to Bidders,
Information for Bidders, Form of Bid,
Sample Contract, Exhibit A, Technical Specifications, Exhibit B Drawings,
Certification & Disclosure Form, Access Approval Form
Covid 19 Visitor Questionnaire
Confidentiality and Non-Disclosure Agreement
Disclosure of Investment Activities in Iran

CLARIFIER REHABILITATION, BASINS 1 – 4

| Howard L. Burrell) Chairman) | Commissioners of the |
|--|---|
| Charles P. Shotmeyer) Vice Chairman) | or and |
| Alan S. Ashkinaze) | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION |
| Jerome P. Amedeo) | |
| Donald C. Kuser) | |
| Robert C. Garofalo | |
| .lames I Cassella) | |

Prepared December 2021

TABLE OF CONTENTS

| NOTICE TO BIDDERS | Page N-1 – N-4 |
|--|------------------|
| INFORMATION FOR BIDDERS | Page I-1 – I-18 |
| BID | Page I-19 – I-21 |
| EXPERIENCE STATEMENT | Page I-22 |
| EQUIPMENT STATEMENT | Page I-23 |
| LISTING OF SUBCONTRACTORS | Page I-24 |
| NONCOLLUSION STATEMENT | Page I-25 |
| BIDDER DISCLOSURE STATEMENT | Page I-26 – I-27 |
| SURETY'S CONSENT | Page I-38 |
| ACKNOWLEDGEMENT OF RECEIPT OF CHANGES TO BID DOCUMENTS FORM | Page I-29 |
| SAFETY TRAINING ACKNOWLEDGEMENT | Page I-30 |
| SECURITY MEASURES ACKNOWLEDGEMENT | Page I-31 |
| BID CHECKLIST | Page I-32 |
| **** | |
| SAMPLE CONTRACT | Page C-1 – C4 |
| GENERAL CONDITIONS | Page C-5 – C-30 |
| EXECUTION OF CONTRACT | Page C-31 |
| CERTIFICATE OF ACKNOWLEDGEMENT FOR CONTRACTOR (CORPORATION) | Page C-32 |
| CERTIFICATE OF ACKNOWLEDGEMENT FOR CONTRACTOR (INDIVIDUAL) | Page C-33 |
| CERTIFICATE OF ACKNOWLEDGEMENT FOR COMMISSION | Page C-34 |

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TABLE OF CONTENTS

| TECHNIC | AL SPECIFICATIONS, DRAWINGS, AND ATTACHMENTS |
|--------------|--|
| Exhibit A. | TECHNICAL SPECIFICATIONS |
| Exhibit B. | DRAWINGS |
| | |
| | |
| | |
| | |
| ATTACHI | MENTS: |
| 1. AC | CESS APPROVAL FORM and COVID 19 VISITOR QUESTIONNAIRE FORM |
| | (Attachment #1)Pages (1) |
| | NDOR CERTIFICATION & DISCLOSURE OF POLICITAL CONTRIBUTION RMS (Attachment 2) |
| 3. <u>NO</u> | N-DISCLOSURE AGREEMENT (Attachment #3)Pages (5) |
| | SCLOSURE OF INVESTMENT ACTIVITIES IN IRAN Fachment #4) |

NOTICE TO BIDDERS BEGINS ON THE NEXT PAGE

NOTICE TO BIDDERS

The **NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION** (the "Commission") is Soliciting proposals from General Contractors as it pertains to rehabilitation of their existing mixing and sedimentation basins (1 through 4) including flocculators, sludge collectors, valves, actuators, underwater lighting, concrete modifications, etc. as further detailed in accordance with the technical specifications summary of work.

The project will be conducted under a single prime contract.

Sealed bids must be received before 1:30 PM WEDNESDAY, MARCH 2, 2022 by the NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION in its offices at One F.A. Orechio Drive, Wanaque, New Jersey 07465, at which point they will be publicly opened and read for:

CONTRACT #2087 CLARIFIER REHABILITATION, BASINS 1 - 4

Bid Specifications are obtainable beginning <u>TUESDAY</u>, <u>DECEMBER 28</u>, <u>2021</u> through emailing Margaret M. Maddalena, the Commission's Contract Administrator, via email at <u>mmaddalena@njdwsc.com</u>. All bids must be made on the blank forms supplied by the Commission.

A <u>non-mandatory pre-bid meeting</u> will be held at the Wanaque Treatment Plant located at One F.A. Orechio Drive, Wanaque, New Jersey 07465 in the Filter Building 2nd Floor Conference Room at <u>11:00 a.m. on Thursday, January 13, 2022</u>. While attendance is not mandatory, all bidders are <u>strongly recommended</u> to attend this pre-bid meeting and site visit. Failure to attend the Pre-Bid meeting does not relieve the Bidder of any obligations or requirements. Bidder can be held to have knowledge that would have been gained if the Bidder attended the Pre-Bid Meeting. The Commission will be practicing Social Distancing 6 ft. apart and require all respondents to were a face mask.

The Commission and/or its employees do not express or imply any statements regarding existing conditions beyond what may be stated herein.

The firm must own and maintain a local office within 100 miles of the Commission.

The project will be constructed under a single prime contract. The Selected Contractor shall be licensed in the State of New Jersey.

All bids must be made on the blank forms supplied by the Commission

For the convenience of the bidders, the Commission has annexed a draft Contract herein. Please be advised that the Contract annexed hereto is a draft only, and the Commission reserves the right to alter or amend the terms set forth therein prior to the awarding of the bid.

Sealed bids for performing the work described herein will be received by the Commission and a contract awarded in accordance with the requirements of the Commission. However,

NOTICE TO BIDDERS

the Commission reserves the right to reject a bidder based upon a prior negative experience or upon any other grounds permitted by law.

Access Approval and Covid - 19 Visitor Questionnaire Forms should be submitted, via email to Security, with a copy of a photo ID, twenty-four (24) hours in advance of arrival on site. Please note, a new Access Approval and Covid -19 Visitor Questionnaire Forms must be submitted to Security for every visit to the Commission. Access Approval and Covid - 19 Visitor Questionnaire Forms may be found in (Attachment "1") of the Bid Package.

The Selected Contractor will be required to sign a Confidentiality and Non-Disclosure Agreement at the time of the Contract award and it shall be incorporated as an Attachment into the final Contract.

The Commission and/or its employees do not express or imply any statements regarding existing conditions beyond what may be stated herein. Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27-1 et seq. and all other applicable statutes, laws or regulations concerning discrimination in employment of workers on public works projects. If awarded a contract your company/firm will be required to comply with requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27-1 et seq.

Bidders are required to submit a valid Business Registration Certificate from the State of New Jersey, Department of Treasury, Division of Revenue with their bid. Failure to submit proof of registration prior to the award of a contract shall be cause for rejection of the bid without further consideration.

Sealed Bids: Each bid submission must be enclosed in a sealed envelope addressed to:

North Jersey District Water Supply Commission One F.A. Orechio Drive Wanaque, New Jersey 07465

Attention: Margaret Maddalena, Contract Administrator

The information below must be clearly shown on the outside envelope of all bids:

CONTENTS: SEALED PUBLIC BID

BID NUMBER: #2087

BID TITLE: CLARIFIER REHABILITION, BASINS 1 – 4

BID TIME AND DATE: 1:30 P.M. – WEDNESDAY, MARCH 2, 2022

QUESTION CUT OFF DATE: THURSDAY, JANUARY 20 2022

NOTICE TO BIDDERS

BIDS FORWARDED VIA OVERNIGHT SERVICES SHALL INDICATE THAT A SEALED BID CONTAINED THEREIN AND IDENTIFY CONTRACT #2087, THE COMMISSION WILL NOT ACCEPT BIDS SUBMITTED VIA FAX OR EMAIL AND THE SAME WILL BE REJECTED.

The Commission will assume no responsibility for bids, which are not properly labeled, whether delivered by the bidder or the bidder's representative, or sent by mail or courier service. The Commission <u>will not</u> accept any bids submitted via fax or email. Bidders are advised not to call the Commission for information. All inquiries must be submitted via email to <u>mmaddalena@njdwsc.com</u>.

<u>Bid Security</u>: Each bid shall be accompanied by a certified check, cashier's check or bid bond for ten (10%) percent of the contract price (not to exceed \$20,000) as a guarantee of execution of contract and the provision of performance security.

All bid securities, except the securities of the apparent three (3) lowest responsible bidders, will be, unless requested by the bidder, returned within ten (10) days after the opening of the bids (Saturdays, Sundays and holidays excepted). The bids of such bidders, other than the apparent three (3) lowest responsible bidders, shall then be considered officially withdrawn. Within three (3) days after the awarding of the Contract and the approval of the Contractor's Performance Bond (if required in the terms of this Contract), the bid securities of the remaining unsuccessful bidders shall be returned to them (Saturdays, Sundays and holidays excepted).

<u>Surety's Consent</u>: Every bid must be accompanied by the consent in writing of a surety company (or surety companies) qualified to do business in the State of New Jersey, who shall, at the time of submission of such bid, qualify as to its (or their) responsibility in an amount equal to ONE HUNDRED PERCENT (100%) of the contract price of such bid, and, furthermore, bind itself (or themselves) in such form as shall comply with the requirements of the Statutes of the State of New Jersey in respect to Bonds of Contractors on Public Works, N.J.S.A. 2A:44-143 to 2A:44-147, as amended and supplemented.

All bidders should use the Surety Consent Form provided by the Commission for the reasons stated on the bottom of the form.

New Jersey Prevailing Wage Act (N.J.S.A 34.11-56.25 et seq.): The Contractor is put on notice that it must pay all of its employees rendering service under this Contract in compliance with the prevailing wage rates promulgated by the New Jersey Department of Labor, a copy of which is on file at the Commission's Administrative Offices in Wanaque, New Jersey, and is hereby made a part of this Contract. In addition, the Contractor shall conform to all other labor laws and statutes established in this State.

All bidders are considered to have full knowledge of the conditions and requirements, including the physical characteristics of the site and the project, which are necessary for an accurate bid. The Commission assumes no responsibility with respect to ascertaining for the Bidder the facts of these physical characteristics, other than the facilitation of the Pre-Bid Meeting and Site Tour. The Bidder shall be held to be aware of the Commission's

NOTICE TO BIDDERS

Requirements prior to the time of submitting bids and to have appraised all conditions under which the Contract is to be performed.

By order of the NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION.

DR. HOWARD L. BURRELL Chairman

ATTEST: KIM DIAMOND

Commission Secretary

BID #2087

INFORMATION FOR BIDDERS

Note: The use of the masculine herein shall include the feminine, and the use of the plural shall include the singular, and vice versa.

Form to be Used: All bids must be made on the blank form "Bid" attached hereto and in accordance with the directions on the form.

<u>Bid in Words and Figures:</u> The price shall be printed in ink in both words and figures. Any bid which fails to name a price both in words and in figures per unit for each and every item, wherein quantities are given, may be held to be non-responsive and may be rejected. In case of any discrepancy or conflict, the price written in words will take precedence over the price written in figures, unit prices will take precedence over price extension, and the sum of individual items, including unit prices multiplied by estimated quantities, and/or individual lump sum and/or allowance amounts will take precedence over the total bid price or alternate bid price.

<u>Bids Not to be Withdrawn</u>: No bid will be permitted to be withdrawn for any reason whatsoever after it has been submitted (except as permitted by <u>N.J.S.A.</u> 40A:11-23.3).

Sealed Bids: Each bid submission must be enclosed in a sealed envelope addressed to:

North Jersey District Water Supply Commission One F.A. Orechio Drive Wanaque, New Jersey 07465

Attention: Margaret Maddalena, Contract Administrator

The information below must be clearly shown on the outside envelope of all bids:

CONTENTS - SEALED PUBLIC BID

BID NUMBER: #2087

BID TITLE: CLARIFIER REHABILITATION, BASINS 1 – 4

BID TIME AND DATE: 1:30 P.M. on WEDNESDAY, MARCH 2, 2022

QUESTION CUT OFF DATE: THURSDAY, JANUARY 20, 2022

<u>BIDS FORWARDED VIA OVERNIGHT SERVICES SHALL INDICATE THAT A</u> SEALED BID IS CONTAINED THEREIN.

INFORMATION FOR BIDDERS

The Commission will assume no responsibility for bids, which are not properly labeled, whether delivered by the bidder or the bidder's representative or if sent by mail or courier service. The Commission will not accept any bids submitted via fax or email. Bidders are also advised not to call the Commission for information. All inquiries must be submitted via email to Margaret M. Maddalena at mmaddalena@njdwsc.com.

Bid Security:

Each bid shall be accompanied by a certified check, cashier's check or bid bond for ten (10%) percent of the contract price (not to exceed \$20,000), as a guarantee of execution of contract and the provision of performance security.

All bid securities, except the securities of the apparent three (3) lowest responsible bidders will be, unless requested by the bidder, returned within ten (10) days after the opening of the bids (Saturdays, Sundays and holidays excepted). The bids of such bidders, other than the apparent three (3) lowest responsible bidders, shall then be considered officially withdrawn. Within three (3) days after the awarding of the contract <u>and</u> the approval of the Contractor's Performance Bond (if required in the terms of this Contract), the bid securities of the remaining unsuccessful bidders shall be returned to them (Saturdays, Sundays and holidays excepted).

Default:

In the case of winning bidder's default, the Commission shall apply said bidder's bid security to the expenses incurred by the Commission in (i) rebidding the Contract and (ii) payment of any difference between the bid price and the price the Commission may be required to pay upon awarding this Contract to a subsequent bidder.

Surety's Consent:

Every bid must be accompanied by the consent in writing of a surety company (or surety companies) qualified to do business in the State of New Jersey, who shall, at the time of submission of such bid, qualify as to its (or their) responsibility in the amount of such bid, and, furthermore, bind itself (or themselves) in such form as shall comply with the requirements of the Statutes of the State of New Jersey in respect to Bonds of Contractors on Public Works, N.J.S.A. 2A:44-143 to 2A:44-147, as amended and supplemented, as follows:

That upon the awarding of the said Contract to the person (or persons) making the bid, the said surety company (or surety companies) shall become surety, firstly, for the faithful performance of the said work, and secondly, for the protection of all persons performing labor, or furnishing labor or materials. Therefore, as required by law, said performance bond is to be in an amount equal to **ONE HUNDRED PERCENT (100%)** of the contract price.

All bidders should use the Surety Consent Form provided by the Commission for the reasons stated on the bottom of the form.

INFORMATION FOR BIDDERS

Payment and Performance Bond:

PERCENT (100%) of the Contract price in satisfactory legal form of a surety company or companies authorized to do business by and operating in accordance with the laws of the State of New Jersey, and to be approved by the Commission for the faithful performance of all provisions of the contract relating to work included in these specifications, including the safeguarding against infringement of any or all patents; and said bond to be canceled upon the performance of the conditions therein specified and upon the payment for final delivery of material under these specifications. In addition this bond shall protect all persons furnishing materials or labor to the Contractor or any subcontractors for the completion of said Contract in accordance with the laws of the State of New Jersey, and shall be in such legal form as shall satisfy the requirements of N.J.S.A. 2A:44-143 to 2A:44-147, and amendments and supplements thereto, and shall not be canceled and returned until such time as the Commission determines that all liability to any and all persons protected by the condition of said bond has been met by the Contractor or person primarily liable for the payment thereof, or by the surety (or sureties) on said bond.

Corporate Acknowledgment:

In the event that a bidder is a corporation in which all offices are held by a **single individual**, then any documents or instruments presented to the Commission in connection with bid shall be executed by said individual only as executive officer, and said officer's signature shall be authenticated and witnessed by a Notary Public licensed to act in such capacity under the laws of the State of New Jersey. This requirement shall apply only to those corporations satisfying the "single individual" criteria set forth above.

Compliance with All Laws:

The successful bidder will be required to keep itself informed and to comply with all Federal, State, County and Local laws, ordinances, and regulations as such may apply.

Non-Collusion:

Bidders are required to give their names together with the address of their places of business. If a bidder is a corporate entity, then any affidavit submitted in conjunction with a bid for this Contract must be signed by a corporate officer. If the Commission discovers that a person or persons submitting a bid is interested, in any manner, in any other bid for the same piece of work, both bids shall be deemed nonconforming and shall be immediately rejected. This provision shall not prevent a party from quoting prices on materials or equipment to more than one bidder. Every bid to be conforming must be in all respects fair and without collusion or fraud and Bidders shall expressly represent that the Bidder is the only person interested in said bid; that it is made without any connection with any person submitting another bid for the same Contract; that the bid is in all respects fair and without collusion, fraud or mental reservation; that no official of the Commission or any person in the employ of the Commission is directly or indirectly interested in said bid or in the supplies or work to which it relates, or in any portion of the profits thereof.

INFORMATION FOR BIDDERS

Bidders will be required to submit a fully executed Affidavit of Non-Collusion as part of the bid submission.

Balanced Bidding:

Any bid which, in the opinion of the Commission, is unbalanced, may be rejected in the sole discretion of the Commission.

Authorized to Reject Bids:

The Commission reserves the right to abandon the bid process or reject all bids and readvertise and award the Contract in the regular manner if, in its judgment, such action will best serve the interest of the Commission.

The Commission reserves the right to reject any or all bids which may be non-responsive or the acceptance of which, in the sole judgment of the Commission, may be detrimental to its interests.

The Commission also reserves the right to reject a bidder based upon a prior negative experience or upon any other grounds permitted by law.

Time within which Contract is to be Executed:

The successful bidder shall execute this Contract and give to the Commission the required security within seven (7) working days from the date that the said contract has been awarded to him. Upon failure to do so, said bidder will be considered as having abandoned this Contract.

Buy American Acts:

Any successful bidder and his subcontractors, if any, must comply with all "Buy American" statutes or regulations, including N.J.S.A. 52:33-1 et seq.

The Commission reserves the right to accept non-domestic materials under this Contract in accordance with N.J.S.A. 52:33-2 and 52:33-3 in the event: (i) it determines the use of domestic materials is "impractical" or "inconsistent with the public interest"; (ii) it determines that the cost of using domestic materials is "unreasonable"; or (iii) domestic materials of the class or kind sought are not mined, produced, or manufactured, as the case may be, in the United States in commercial quantities and of a quality satisfactory to the Commission.

Brand Name or Equivalent:

Wherever a brand name is designated in the bid documents, it shall mean "brand name or equivalent." Bidders will be required to demonstrate, to the sole satisfaction of the Commission, that equivalent products are both compatible and effective.

INFORMATION FOR BIDDERS

Award of Contract:

The Contract will be awarded to the lowest responsible and responsive bidder, who, in the judgment of the Commission, is qualified to do the work. The Commission reserves the right to reject any and all bids, and to waive minor or non-material bid defects.

Worker and Community Right-to-Know Act (N.J.S.A. 34:5A-1 et seq.; N.J.A.C. 7:1G):

This Act requires employers to label all containers of hazardous substances. All goods offered for purchase to the Commission must be labeled in compliance with the provisions of this Act.

Material Safety Data Sheets also must be supplied as is required by law.

Bidder's Qualifications:

Only those bidders thoroughly experienced in quality work of the type required herein and in the installation of materials, as specified herein, may apply.

Bidders are put on notice that their previous experience and performance record will be carefully considered prior to award of contract. Bidders must also own and maintain a local office within one hundred (100) miles of the Commission.

Interpretations and Addenda:

No interpretations of the meanings of any portion of the bid documents will be made to any prospective bidder orally. Every request for an interpretation or correction shall be made in writing addressed to MARGARET M. MADDALENA, CONTRACT ADMINSTRATOR, NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION and submitted via email to mmaddalena@njdwsc.com. Requests for interpretations received later than THURSDAY, JANUARY 20, 2022 will be considered untimely, and, at the sole discretion of the Commission, will not be considered. Notice of corrections and any supplemental instructions in the form of written addenda to the bid documents will be published in a legal newspaper, faxed and/or mailed to bidders at their respective addresses furnished for such purposes, certified, not later than seven (7) days (Saturdays, Sundays and Holidays excepted) prior to the date fixed for the opening of bids. The failure of any bidder to receive any such addenda or interpretations shall not release said bidder from any obligations under his bid as submitted.

All addenda so issued shall become part of the bid documents. Only the written interpretations, corrections, and addenda so given by **MARGARET M. MADDALENA**, shall be binding, and the prospective bidders are warned that no other officer, agent or employee of the Commission is authorized to give information concerning, or to explain or interpret, the bid documents.

Each bidder is required to submit with its bid a completed "Acknowledgment of Receipt of Changes to Bid Documents Form" (Page I-29), included with these Specifications. In the event no notices, revisions, or addenda to the bid advertisement, Technical

INFORMATION FOR BIDDERS

Specifications, or bid documents are received by the bidder, the bidder shall indicate "none" on that form, which must still be completed, acknowledged, signed and submitted with its bid.

Affirmative Action:

Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. (P.L. 1975, c.127) and N.J.A.C. 17:27-1.1 et seq. Construction Contracts.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the Commission's compliance officer and the Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the public agency by the Dept. of LWD, Construction EEO Monitoring Program, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the Commission's compliance officer.

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any

INFORMATION FOR BIDDERS

regulations promulgated by the Treasurer, pursuant to <u>N.J.S.A.</u> 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B, and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2.

The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

- If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.
- (B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:
 - (1) To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
 - (2) To notify any minority and women workers who have been listed with it as

INFORMATION FOR BIDDERS

awaiting available vacancies;

- (3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade:
- (4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;
- (5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and nondiscrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
- (6) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:
 - (i) The contactor or subcontractor shall interview the referred minority or women worker. If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Dept. of LWD, Construction EEO Monitoring Program. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.
 - (ii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Dept. of LWD, Construction EEO Monitoring Program, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.
 - (iii) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain

INFORMATION FOR BIDDERS

a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Dept. of LWD, Construction EEO Monitoring Program.

- (7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Dept. of LWD, Construction EEO Monitoring Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program upon request.
- The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the public agency by the Dept. of LWD, Construction EEO Monitoring Program, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the public agency compliance officer.

The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the job programs for outreach and training of minorities and women.

(D) The contractor and its subcontractors shall furnish such reports or other documents to the Dept. of LWD, Construction EEO Monitoring Program as may be requested by the

INFORMATION FOR BIDDERS

Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to <u>N.J.A.C.</u> 17:27-1.1 et seq.

Patent Infringement:

No specification or specifications provided to the Contractor shall constitute a warranty, express or implied, against any claims for infringement for patents, copyrights, or trademarks and the Commission shall not be responsible to the Contractor, as indemnitor or otherwise, for or on account of any such claim or liability.

Contractor guarantees that the sale or use of its products will not infringe any United States or foreign patent, copyright, or trademark, and Contractor shall indemnify the Commission against all judgments, decrees, costs and expenses resulting from such alleged infringement, and covenants that Contractor will upon request of the Commission and at the Contractor's own expense, defend, or assist in the defense of, any suit or action which may be brought against the Commission or those selling or using any product or service of the Commission by reason of any alleged infringement of any patents, copyrights, or trademarks in the sale or use of the Commission's products of services.

Working Hours:

Contractor shall be permitted to perform work on Commission property during the hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, non-holiday periods.

Time for Completing Work:

The Contractor shall achieve Substantial Completion within <u>Six Hundred and Seventy</u> (670) <u>Calendar Days</u> of the issuance of the Notice to Proceed by the Commission, and shall achieve Final Completion within <u>Seven Hundred and Thirty</u> (730) <u>Calendar Days</u> from the issuance of the Notice to Proceed by the Commission.

Liquidated Damages:

If the Contractor shall not complete the work within the same time herein specified, or any proper extension thereof granted by the Commission then the Contractor does hereby agree, as part consideration for the awarding of this contract, to pay the Commission <u>Two Hundred and Fifty Dollars (\$250.00) per calendar day</u>, commencing on the 1st day of failure to achieve Substantial Completion (i.e., upon the 671st calendar day) <u>and/or Five Hundred Dollars (\$500.00) per calendar day</u>, commencing on the 1st day of failure to achieve Final Completion (i.e., the 731st calendar day), not as a penalty, but as a liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contractor shall be in default after the time stipulated herein and in the **BID** for completing the work.

The Commission may, in its sole discretion, review any purported reasons for delay and

INFORMATION FOR BIDDERS

consider an extension or change order pursuant to the terms of Contract. The Commission shall have the right to offset from monies owed the Contractor under this Contract any and all monies owed the Commission as Liquidated Damages.

Campaign Contributions and Expenditure Reporting:

In order to safeguard the integrity of the Commission's procurement process, the Commission has imposed restrictions to insulate the award of contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof. The terms and conditions set forth in this section are material terms of any contract resulting from this Bid.

a. Definitions.

For the purposes of this section, the following shall be defined as follows:

- (i) Contribution means a contribution reportable by the recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act", N.J.S.A. 10:44A-1 et seq., and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1 et seq. Currently, contributions in excess of \$300 during a reporting period are deemed "reportable" under these laws.
- (ii) Contractor means any natural or legal person, business corporation, professional service corporation, limited liability company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. It also includes (a) all principals who own or control more than ten percent (10%) of the profits or assets of the Contractor or ten percent (10%) of the stock in the case of a contractor that is a corporation for profit, as appropriate; (b) any subsidiaries directly or indirectly controlled by the Contractor; (c) any political organization organized under 26 <u>U.S.C.A.</u> 527 that is directly or indirectly controlled by the Contractor, other than a candidate committee, election fund, or political party committee; and (d) if the Contractor is a natural person, that person's spouse or child, residing in the same household.

b. Breach of Contract.

It shall be a breach of the terms of any contract for the Contractor to (i) make or solicit a contribution in violation of the terms of this section, (ii) knowingly conceal or misrepresent a contribution given or received; (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate or holder of the public office of Governor, or to any State or county party committee; (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would subject that entity to the restrictions of this section; (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii) engage in any exchange of contributions to circumvent the intent of this section; or (viii) directly or indirectly through or by any other person or means, do any act which would

INFORMATION FOR BIDDERS

subject that entity to the restrictions of this section.

c. Certification and Disclosure Requirements.

- (i) The Commission is prohibited from entering into a contract with any Contractor for services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Contractor has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor, or to any State or county political party committee: (i) within the eighteen (18) months immediately preceding the commencement of negotiations for the contract or agreement; (ii) during the term of office of a Governor, in the case of contributions to a candidate committee or election fund of the holder of that office, or to any State or county political party committee of a political party nominating such Governor in the last gubernatorial election preceding the commencement of such term; or (iii) within the eighteen (18) months immediately preceding the last day of the term of office of Governor, in which case such prohibition shall continue through the end of the next immediately following term of the office of Governor, in the case of contributions to a candidate committee or election fund of the holder of that office, or to any State or county political party committee of a political party nominating such Governor in the last gubernatorial election preceding the commencement of the latter term. Effective November 15, 2008, Executive Order No. 117 extends the above prohibition to contributions made to a candidate committee or election fund of any candidate for or holder of the office of Lieutenant Governor, and to contributions made to a legislative leadership committee or a municipal political party committee.
- (ii) At the time of the submission of its Bid, a Bidder shall report all contributions the Contractor made during the preceding four (4) years to any political organization organized under 26 <u>U.S.C.A.</u> 527 of the Internal Revenue Code that also meet the definition of a "continuing political committee" within the meaning of <u>N.J.S.A.</u> 19:44A-3(n) and <u>N.J.A.C.</u> 19:25-1.7. The required forms and instructions are included in this Bid Specification package (Attachment #2) and must be returned with a bidder's bid fully completed. Failure to submit the fully completed Certification and <u>Disclosure(s)</u> with a Bid may result in the rejection of the Bid, as well as preclude future contract opportunities.
- (iii) Further, the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the Contract, and any extension(s) thereof, at the time any such contribution is made. The required form and instructions are available for review on the Purchase Bureau website at http://www.state.nj.us/treasury/purchase/forms.shtml and shall be provided to the intended awardee with the Notice of Intent to Award.

d. Disclosure Review.

INFORMATION FOR BIDDERS

The Commission shall ensure that the completed Certification and Disclosure(s) submitted pursuant to this section, as well as any other pertinent information concerning the contributions or reports thereof by the Successful Bidder, or by the Contractor during the term of the Contract are reviewed by the appropriate authorities. If it is determined that any contribution or action by the Contractor constitutes a breach of contract that poses a conflict of interest in the awarding of the Contract under this solicitation, the Commission shall disqualify the Contractor from award of such Contract.

Business Registration Act:

- A. Business Registration: Pursuant to N.J.S.A. 52:32-44, **NORTH JERSEY DISTRICT WATER SUPPLY COMMISION** is prohibited from entering into a contract with an entity unless the bid/proposal/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of Treasury.
- B. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with its proof of business registration and that of any named subcontractor(s).
- C. Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Contracting Agency prior to the time a contract, purchase order or other contracting documents is awarded or authorized.
- D. During the course of contract performance:
 - (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
 - (2) the contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time.
 - (3) the contractor and any subcontractors providing goods or performing services under a contract, and each affiliates, shall collect and remit to the Director of Division of Taxation in the Department of Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et.seq.) on all sales of tangible personal property delivered to the State. Any questions in this regard can be directed to the Division of Taxation at (609)2925-6200. Form NJ-REG can be filled out at www.state.nj.us/treasury/revenue/busregcert.html.

INFORMATION FOR BIDDERS

- E. Before final payment is made under the contract, the contractor shall submit to the Contracting Agency a complete list of all subcontractors and their addresses.
- F. Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contract agency.

Public Works Contractor Registration Act:

N.J.S.A. 34:11-56.48 et seq., required that a general or prime contractor and any listed subcontractors named in the contractor's bid proposal shall possess a certificate at the time the bid proposal is submitted. After bid proposal are received and prior to award of contract, the successful contractor shall submit a copy of the contractor's certification along with those of all listed subcontractors. All non-listed subcontractors and lower tier subcontractors shall be registered prior to starting work on the project. It is the general contractor's responsibility that all non-listed subcontractors at any tier have their certificate prior to starting work on the job.

Under the law a "contractor" is "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract" which is subject to the provisions of the New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25, et seq.) It applies to contractors based in New Jersey or any other state.

To register, a contractor must provide the State Department of Labor with a full and accurately completed application form. The form is available online at www.state.nj.us/labor/lsse/lspubcon.html. N.J.S.A. 34:11-56.55 specifically prohibits accepting applications for registration as a substitute for a certificate of registration.

New Jersey Anti-Discrimination

Pursuant to N.J.S.A. 10:2-1, if awarded a contract, the contractor agrees that:

a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such material, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;

INFORMATION FOR BIDDERS

- b. No contractor, subcontractor, nor any person on his behalf, shall in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engage in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account or race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex:
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$50.00 for each person for each calendar day which such a person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the public agency of any prior violation of this section of the contract.

American with Disabilities Act 1990

The contractor and the owner do hereby agree that the provisions of Title 11 of the Americans with Disabilities Act of 1990 (the "Act") (42 U.S.C. S121 01 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made part of this contract. In providing any aid, benefit, or service on behalf of the owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the act. In the event that the contractor, its agents, servants, employees, subcontractors violate or are alleged to have violated the act during the performance of this contract, the contactor shall defend the owner in any action or administrative proceeding commenced pursuant to the act. The contractor shall indemnify, protect, and save harmless the owner, it agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind of nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or in connection therewith. In any and all complaints brought pursuant to the owner's grievance procedure, the contractor agrees to abide by any decision of the owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the owner, or if the owners incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

The owner shall, as soon as practicable after a claim has been made against it, give written

INFORMATION FOR BIDDERS

notice thereof to the contractor along with full and complete particulars of the claim, if any action or administrative proceeding is brought against the owner or any of its agents, servants, employees, the owner shall expeditiously forward to the contractor every demand, complaint, notice, summons, pleading, or other process received by the owner or its representatives.

It is expressly agreed and understood that any approval by the owner of the services provided by the contactor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless to the pursuant to this paragraph.

It is further agreed and understood that the owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any actions available to it under any other provisions of the Agreement or otherwise at Law.

Disclosure of Investment Activities in Iran:

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website at:

http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf.

Bidders must review this list prior to completing the below certification. Failure to complete the certification will render a bidder's proposal non-responsive. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

Diane B. Allen Equal Pay Act

Pursuant to N.J.S.A. 34:11-56.14, a contractor performing "qualifying services" or "public work" to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see

INFORMATION FOR BIDDERS

https://nj.gov/labor/equalpay/equalpay.html.

Prompt Payment of Construction Contracts Act:

On September 1, 2006, the New Jersey Legislature passed the Prompt Payment of Construction Contracts Act, N.J.S.A. 2A:30A-1 et seq.

N.J.S.A. 2A:30A-1 et seq. provides, in part, as follows: "If a prime contractor has performed in accordance with the provisions of a contract with the owner and the billing for the work has been approved and certified by the owner or the owner's authorized approving agent, the owner shall pay the amount due to the prime contractor for each periodic payment, final payment or retainage monies not more than thirty (30) calendar days after the billing date, which for a periodic billing, shall be the periodic billing date specified in the contract. The billing shall be deemed approved and certified twenty (20) days after the owner receives it unless the owner provides, before the end of the 20-day period, a written statement of the amount withheld and the reason for withholding payment, except that in the case of a public or governmental entity that requires the entity's governing body to vote on authorizations for each periodic payment, final payment or retainage monies, the amount due may be approved and certified at the next scheduled public meeting of the entity's governing body, and paid during the entity's subsequent payment cycle, provided this exception has been defined in the bid specifications and contract documents."

As a public entity that requires the authorization of its governing body for periodic or final payments, and payments for change orders or release of retainage, the Commission hereby places the prime contractor on notice that it not subject to the twenty (20) day period for the approval and certification of billings and, consistent with N.J.S.A. 2A:30A-1 et seq., in the event that the Commission is unable to obtain formal consideration and approval of any billing for work performed by a prime contractor as the basis for a periodic or final payment, or payments for change orders or retainage within the thirty (30) day time period mandated by N.J.S.A. 2A:30A-1 et seq., the Commission shall place the billing for work performed on its next regularly scheduled meeting of its Board of Commissioners and, should such billing for work performed be approved, pay the approved amount to the prime contractor during the Commission's subsequent payment cycle.

New Jersey Prevailing Wage Act (N.J.S.A 34.11-56.25 et seq.):

Contractors on projects for public work shall adhere to all requirements of the New Jersey Prevailing Wage Act. The contractor shall be required to submit a certified payroll record to the Commission within (10) days of the payment of wages. In the event that is found that any worker, employed by the contractor or any subcontractor has been paid a rate of wages less than the prevailing wage required to be paid, the Commission may terminate the contractor's or subcontractor's right to proceed with work, or such part of work as to which there has been a failure to pay required wages and prosecute the work to completion.

INFORMATION FOR BIDDERS

The contractor is also responsible for obtaining and submitting all subcontractors' certified payroll records within the aforementioned time period. The contractor shall submit said certified payrolls in the form set forth in N.J.A.C 12:60-6.1(c). It is the contractor's responsibility to obtain any additional copies of the certified payroll for to be submitted by contacting the New Jersey Department of Labor and Workforce Development, Division of Workplace Standards. Additional information is available at http://lwd.dol.state.nj.us/labor/wagehour/wagerate/pwr_construction.html.

The Contractor is hereby put on notice that it must pay all of its employees rendering service under this Contract in compliance with the prevailing wage rates promulgated by the New Jersey Department of Labor, a copy of which is on file at the Commission's Administrative Offices in Wanaque, New Jersey, and is hereby made a part of this Contract. In addition, the Contractor shall conform to all other labor laws and statutes established in this State.

| TO: TH | HE NORTH JERSE | Y DISTRICT WATE | R SUPPLY COMMIS | SION |
|--|---|--|--|---|
| FOR: CO | ONTRACT #2087 (| LARIFIER REHAB | ILITATION, BASINS | 1 – 4 |
| MADE TI | HISDAY | OF | | 2022 |
| BY: | | | | |
| ADDRES | SS: | | | |
| persons in the persons recollusion directly continued in the relates and Planand he perovided, | nterested in this bid rson than hereinable I to be taken; that the making a Bid for the or fraud and that no or indirectly, interest in the performance or in any portion of of the work; that he s, therein referred proposes and agree to perform all the and Specifications, | d as principal or proficer or employee ested as contracting of the Contract, or the profits thereof; has examined the to, and has read the es, if this Bid be a work and furnish | as bidder, declares the cipals is or are name by interest in this Bid ut any connection with at the bid is in all responder the Commission is party, partner, sto in the supplies, work that he has had an optorm of Contract, Technology and the will all material(s) mention to full payment the contract of the contract of the contract of the will all material(s) mentions of the contract of the contra | d above, and that no d or in the Contract h any other person or pects fair and without , shall be, or become, ockholder, surety, or or business to which portunity to examine chnical Specifications ders hereto attached; contract in the form oned in said form of |
| | District Water Sup | oply Commission, in | rin, BASINS 1 – 4 the cluding labor, equipm the Technical Specifi price | ent, materials |
| | dollars and | ce | nts (\$ |) |

<u>UNIT PRICING FOR THE FOLLOWING ITEMS LISTED BELOW:</u>

| Sludge/anthracite removal - \$ | /Cubic Yard (CY) |
|--------------------------------|-------------------|
| Price: | dollars and |
| | cents |
| Concrete Spall Repair - \$ | /Square Foot (SF) |
| Price: | dollars and |
| | cents |
| Concrete Crack Repair - \$ | /Linear Foot (LF) |
| Price: | dollars and |
| | cents |

AWARD WILL BE BASED ON THE FOLLOWING FORMULA WITH ESTIMATED QUANTITIES.

Base Bid + 6000CY * \$/CY + 4000SF * \$/SF + 1600LF * \$/LF

NOTE: The price shall be printed in ink both words and figures. Any bid which fails to name a price both in words and in figures per unit and every item, wherein quantities are given, may be held to be non-responsive and may be rejected. In case of any discrepancy or conflict, the price written in words will take precedence over the written in figures and unit prices will take precedence over the sum of individual items.

<u>What the Price is to Cover</u>: The price is to include and cover the furnishing of the necessary shop drawings, machinery, tools, apparatus and other means of construction and all material and labor called for by said Contract, specifications, and drawings for the work, necessary to complete the work in the manner and within the time set forth in said Contract and specifications.

<u>Time within which Contract is to be Executed</u>: The Successful Bidder shall execute this Contract and give to the Commission the required security within seven (7) working days from the date that said Contract has been awarded to him. Upon failure to do so, said Bidder Clarifier Rehabilition, Basins 1 – 4

will be considered as having abandoned the Contract.

Bidder acknowledges that the Commission reserves the right to reject any or all Bids which may be non-responsive or the acceptance of which, in the sole judgment of the Commission, may be detrimental to its interests.

| Respectfully submitted, | | |
|--|--------------------|--|
| BIDDE | R | |
| SIGNATURE OF AUTHORIZED AGENT | TYPE OR PRINT NAME | |
| TITLE | | |
| TELEPHONE NUMBER | E-MAIL ADDRESS | |
| WITNESS (IF INDIVIDUAL, PARTNERSHIP OR OTHER | R BUSINESS ENTITY) | |
| ATTEST: (CORPORATION) | SECRETARY | |

NOTE: AFFIX CORPORATE SEAL

EXPERIENCE STATEMENT

TO: NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION

Gentlemen:

We hereby certify that we have performed the work listed below to the satisfaction of the Governing Bodies or Public Entities listed below. We further certify that we have never defaulted under any contract with a Municipality, County, or State, or any other Public Entity.

Note: Include no less than five (5) references. Give name of Public Entity or Unit of Government, nature of work, amount of work performed, when completed, and name and telephone number of party in charge of work. **WITNESS** NAME OF COMPANY **ADDRESS** DATE BY: _____ **SIGNATURE**

PRINT NAME AND TITLE

EQUIPMENT STATEMENT

TO: NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION

Gentlemen:

| machinery to conduct the work as | s herein specified, a | the necessary capital, material, and we further certify that the equipment e time specified is available as follows |
|----------------------------------|-----------------------|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | BY: | |
| | <u> </u> | SIGNATURE |
| | | PRINT NAME AND TITLE |
| WITNESS | _ | COMPANY NAME |
| DATE | | ADDRESS |

LISTING OF SUBCONTRACTORS TO BE USED

Each Bidder shall submit to the Commission with its Bid, the List of Subcontractors proposed to be employed by the Contractor, complete with the names of all such Subcontractors, Suppliers, and other individuals and entities and the percentage of work to be performed by each Subcontractor. The list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, individual, or entity, for each Subcontractor's work that is proposed to exceed ten (10) percent of the Bid price. If, after due investigation, the Commission has reasonable objection to any proposed Subcontractor, Supplier, or other individual or entity, the Commission may, before the Notice of Award is given, request the apparent Successful Bidder to submit an acceptable substitute Subcontractor without an increase in the Bid Price.

If the apparent Successful Bidder declines to make any such substitution, the Commission may award the Contract to the next lowest responsible and responsive Bidder that proposes to use acceptable Subcontractors, Suppliers, and other individuals and entities. Declining to make requested substitutions will not constitute grounds for sacrificing the bid security of any Bidder. Any Subcontractor, Supplier, or other individual or entity so listed and against which the Commission makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to the Commission, subject to revocation of such acceptance after the Effective Date of the Contract.

Should a Contractor utilize a substitute Subcontractor, Contractor shall immediately submit a revised form to the Commission, with the requisite information and documentation relating to the substitute Subcontractor.

| WORK CATEGORY | SUBCONTRACTOR NAME | SUBCONTRACTOR ADDRESS |
|---------------|-----------------------|--------------------------|
| | | |
| | | |
| | | |
| _ | | |

(Attach additional pages as required)

NOTE: Submission of the names and addresses of the Subcontractors is essential and non-waiveable. Also, proof of registration pursuant to Public Works Contractors Registration Act for all named subcontractors is required to be provided prior to the award of a contract. Where <u>more than one</u> Subcontractor is named for a trade category, the bidder must identify, in the Bid, the scope of work that is to be performed by each subcontractor. Failure to comply with these requirements will result in the Bid being deemed nonresponsive.

NONCOLLUSION AFFIDAVIT

| STATE OF } | |
|---|--|
| COUNTY OF S.S.: | |
| ICounty of | of the city of in the of full age, being and the State of of full age, being law on my oath depose and say that: I am |
| duly sworn according to the of the firm of(Title) | law on my oath depose and say that: I am |
| the Bidder making the Bid for the authority so to do; that said Bidde participated in any collusion, or obidding in connection with the althe said Bid and in this Affidavit a NORTH JERSEY DISTRICT WA | above named project, and that I executed the said Bid with r has not, directly or indirectly, entered into any agreement, otherwise taken any action in restraint of free, competitive bove-named project; and that all statements contained in re sure and correct, and made with full knowledge that the ATER SUPPLY COMMISSION relies upon the truth of the and in the statements contained in this Affidavit in awarding |
| or secure such Contract upor | or selling agency has been employed or retained to solicit n an agreement or understanding for a commission, ingent fee, except bona fide employees or bona fide gragencies. |
| NAME OF CONTRACTOR | OFFICER'S SIGNATURE |
| (Original signatu | re only, stamped signature not accepted) |
| Subscribed and sworn to before me thisday of 2022. | |
| Notary Public of the State of | |
| My Commission expires | |
| Affix notary stamp or print name I | pelow signature. |
| NOTARY'S SIGNATURE | |

BIDDER DISCLOSURE STATEMENT

NOTE: IF YOU FAIL TO PROPERLY OR CLEARLY COMPLETE THIS BIDDER DISCLOSURE STATEMENT, OR IF YOU FAIL TO INCLUDE IT WITH YOUR BID, YOUR BID WILL BE REJECTED.

N.J.S.A. 52:25-24.2, requires that all corporate and partnership bidders for public contracts submit a list of names and addresses of all stockholders owning 10% or more of any class of their stock or 10% or more of the stock of a corporate bidder; or, in the case of partnership, the names and addresses of those partners owning 10% or greater interest in the partnership. Furthermore, the Commission requires a statement from all bidders which, regardless of business form, must likewise indicate all principals of the bidder.

Therefore, this Bidder Disclosure Statement must be fully and accurately completed. If no entity or person owns 10% or more of any class of stock of your corporation, or of an interest in your partnership or other business entity, write the word "NONE" below and execute this document as indicated.

If one or more of the owners of the bidder is itself a corporation, partnership or other business entity, then for that owner, you must set forth the name, home address, title and percentage of ownership of every person who is an owner of 10% or more of that corporation, partnership or other business entity.

Ι.

BUSINESS FORM:

BIDDER DISCLOSURE STATEMENT

| NAME | HOME ADDRESS | TITLE | % OF OWNERSHIP |
|-----------------|------------------------|-----------------|----------------|
| 1 | | | |
| Z | | | |
| 4 | | | |
| ATTEST (FOR CO | RPORATION) | | |
| BY: | | | |
| NAME: | | | |
| TITLE: | | | |
| | | | |
| WITNESS (FOR PA | ARTNERSHIP OR OTHER BU | ISINESS ENTITY) | |
| BY: | | | |
| NAME: | | | |
| TITLE: | | | |
| | | | |
| BY: | | | |
| NAME: | | | |
| TITLE: | | | |
| | | | |
| | | | |
| | | | |

I-27

NOTE:

affixed.

If the bidder is a corporation, the corporation's corporate seal must be

BID #2087

CONSENT OF SURETY

| KNOW ALL MEN BY THESE PRESENTS, | THAT | |
|---|--------------------|--------------------------------|
| a corporation of the State of | r | naving its principal office at |
| | | being (a) surety |
| company(ies) qualified to do business in th | | |
| premises, and of one dollar to it (them) in ha | | |
| and valuable consideration the receipt who | • | • • • • |
| and agree, that if the Contract for which the p | • | • |
| or persons making the same; it (they) will, | • | |
| first, for the full and faithful performance of s | | • |
| persons in the performance of said Contract 2A:44-147 and the amendments thereof ar | - | · — |
| and the labor, material and supply obligation | | • |
| Commission against loss due to the failure | | |
| respective bonds; said bond to be in the am | | |
| • | | • |
| IN WITNESS WHEREOF, the said | | has |
| (have) caused its (their) corporate seal(s) | to be hereto affix | ed and these presents to be |
| signed by its (their) | | and attested to by its (their) |
| | this | day of |
| Two Thousand and Twenty-Two. | | |
| | | |
| | Corporate Seal | |
| D.v. | | |
| Dy. | | |
| | | (as Surety) |
| ATTEST: | | |
| | | |
| THE CONCENT OF CURETY FORM ARCHE CO. | ITAINO THE LASSO | 14 OF THE COMMISSION 575 50 |
| THE CONSENT OF SURETY FORM ABOVE CON | NIAINS THE LANGU | JAGE THE COMMISSION FINDS |

ACCEPTABLE.

WE SUGGEST THE ABOVE BE COMPLETED BY YOUR SURETY COMPANY(IES) AND SUBMITTED WITH YOUR BID IN LIEU OF SUBMITTING THE SURETY'S OWN FORM.

BY DOING THIS, YOU REDUCE THE RISK OF YOUR BID BEING REJECTED FOR HAVING SUBMITTED A CONSENT OF SURETY WHICH CONTAINS INCORRECT AND UNSATISFACTORY LANGUAGE.

NOTE: THE INDIVIDUAL EXECUTING THE SURETY CONSENT ON BEHALF OF THE SURETY MUST SUPPLY WITH THE CONSENT, WRITTEN EVIDENCE THAT HE OR SHE IS AUTHORIZED TO BIND THE SURETY AS OF THE DATE OF THE EXECUTION OF THE CONSENT.

BID #2087

ACKNOWLEDGMENT OF RECEIPT OF CHANGES TO BID DOCUMENTS FORM

| (Name of Contracting Unit) | | |
|--|--|--|
| | | |
| (Name of Construction/Public Works Project) | (Project | or Bid Number) |
| The undersigned Bidder hereby acknowledges receinded and to the bid advertisement, specifications or eccipt, Bidder acknowledges the submitted Bid talentice, revision or addendum. Note that the Commissake precedence and that failure to include provision or rejection of the Bid. In the event that no not advertisement, specifications or bid documents are reducate "none" in the space below. Failure to subchanges to Bid Documents Form" shall be deferred, and shall be cause for rejection of the Bid | bid documents. By kes into account the ssion's record of Notions of changes in a Bices, revisions or acceived by the Bidde mit "Acknowledgm temed a material a | indicating date of provisions of the ce to Bidders shall id may be subject denda to the bider, the Bidder must pent of Receipt of and non-waivable |
| Commission's Reference Number or Title of Addendum/Clarification | How Received (mail, fax, pick- up, etc.) | Date Received |
| | | |
| | | |
| | | |
| | | |
| | | |
| Acknowledgment by Bidder: | | |
| lame of Bidder: | | |
| By Authorized Representative: | | |
| ignature: | | _ |
| Printed Name and Title: | | |
| | | |

BID #2087

SAFETY TRAINING ACKNOWLEDGMENT

| (Name of Co. 1 at 11) | -10 |
|---|---------------------------------|
| (Name of Contracting Ui | nit) |
| (Name of Construction/Public Works Project) | (Project or Bid Number) |
| | • |
| All equipment and work methods utilized in this Contract other applicable local, state and/or federal safety standards all subcontractors shall be required to attend a Contrabeginning construction. | and regulations. Contractor and |
| | |
| | |
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| | |
| | |
| | |
| Acknowledgment by Bidder: | |
| Name of Bidder: | |
| By Authorized Representative: | |
| Signature: | |
| Printed Name and Title: | |
| Data | |

BID #2087

SECURITY MEASURES ACKNOWLEDGMENT

| (Name of Contracting Unit) | |
|--|------------------------------------|
| (Name of Construction/Public Works Project) | (Project or Bid Number) |
| The undersigned Bidder hereby acknowledges that he/sh security requirements for this project and agrees to abide responsible for insuring that all subcontractors for this measures as well. | by same. The Contractor shall be |
| Contractors and all subcontractors shall be required to co to beginning construction on this Contract.* | omply with said requirements prior |
| Acknowledgment by Bidder: | |
| Name of Bidder: | |
| By Authorized Representative: | |
| Signature: | |
| Printed Name and Title: | |
| Date: | |

*As required by the New Jersey Office of Counter Terrorism's Best Management Practices, Contractors must provide evidence that it has previously conducted a background check on all Contractor's employees who will be entering onto Commission property. Contractors shall provide the Commission with a corporate letter, on appropriate letterhead, stating the names of all employees who will require access to the Commission's property, and indicating that such background checks have, in fact, been performed. All subcontractors are also required to provide such employee list, and confirmation of background checks.

BID #20867 BID CHECKLIST

ALL ITEMS LISTED BELOW MUST ACCOMPANY THIS BID UNLESS OTHERWISE INDICATED. PLEASE CHECK ALL ITEMS BEFORE SUBMITTING:

| | | URE TO PROVIDE OR PROPERLY COMPLETE OR SIGN ANY OF THESE IS BELOW WILL RESULT IN A MANDATORY REJECTION OF THE BID. |
|---|--------------------|---|
| _ | (1) | SECURITY IN THE FORM OF: |
| | | A BID BOND IN AN AMOUNT EQUAL TO 10% OF THE TOTAL AMOUNT OF THIS BID, NOT TO EXCEED \$20,000. |
| | | <u>OR</u> |
| | | A CERTIFIED CHECK IN THE AMOUNT OF 10% OF THIS BID, BUT NOT IN EXCESS OF \$20,000. |
| | | <u>OR</u> |
| | | A CASHIER'S CHECK IN THE AMOUNT OF 10% OF THIS BID, BUT NOT IN EXCESS OF \$20,000. |
| | (2) | SURETY COMPANY CONSENT (IN ADDITION TO SECURITY IN ITEM #1 ABOVE). |
| | (3) | BIDDER DISCLOSURE STATEMENT |
| | (4) FAIL | ACKNOWLEDGMENT OF RECEIPT OF CHANGES TO BID DOCUMENTS URE TO PROVIDE OR PROPERLY COMPLETE OR SIGN ANY OF THE |
| | | S BELOW MAY RESULT IN A REJECTION OF THE BID. |
| | (1) | BUSINESS REGISTRATION CERTIFICATE FOR CONTRACTOR OR ANY SUBCONTRACTORS |
| | (2) | PROOF OF PUBLIC WORKS CONTRACTOR REGISTRATION OR ANY SUBCONTRATORS |
| | (3) | LIST OF SUBCONTRACTORS |
| | (4) | EXPERIENCE STATEMENT |
| | (5) | EQUIPMENT STATEMENT |
| | (6) | NONCOLLUSION AFFIDAVIT |
| | (7) | SAFETY TRAINING ACKNOWLEDGMENT |
| | (8) | SECURITY MEASURES ACKNOWLEDGMENT |
| | (9) | COMPLETED CONTRIBUTION CERTIFICATION AND DISCLOSURE(S) (ATTACHMENT #2) |
| | (10) | DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN (CONTRACTOR) |
| | | BY: |
| | | SIGNATURE |
| | | PRINT NAME AND TITLE |

EXECUTION OF CONTRACT

NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION WANAQUE, NEW JERSEY

| | H JERSE | Γ, made and e Y DISTRICT \ designated | NATER SU as | PPLY CON the | MMISSION, | party of the nmission | e first part, and |
|---|--|--|---|---|--|--|---|
| as the Cor | ntractor. | | | , | ' ' | | J |
| the undert undertake of the first | akings, pronise n, promise part for it | NESSETH, the omises and ago and agreed, its succest administrators | reements or and do her ssors and a | n the part of eby underta ssigns, and | f the other hake, promised the party of | erein conta e and agree of the seco | ined, have , the party |
| compensa and comp order to co specification out of the encounter | ation for fu leting all tomplete the ons and penature of red in the nce of the | C: The Common rnishing all the he work which he entire work is lans, described the work afor prosecution suspension or is. | e shop draw is necessa n this Contr d and show resaid, or fr of the work | ings, mater ry or prope act describ n; and also om any ur k; and for | rials and laber to be furnied and specifor all lossenforeseen of all expense | or and for position or pecified in said said said said said said said said | performing rformed in d technical ges arising or difficulty by or in |
| | District W | E CLARIFIER F ater Supply Coanty and all wo | ommission, ork describe | including la | abor, equipn | nent, mater | ials |
| | | lump | | sum | price | | — — |
| | dollars an | d | 0 | ents (\$ | | · · · · · · · · · · · · · · · · · · · |) |
| <u>UN</u> | IIT PRICIN | IG FOR THE F | OLLOWING | G ITEMS L | ISTED BEL | OW: | |
| Slu | udge/anth | racite remova | al - \$ | /0 | Cubic Yard | (CY) | |
| <u>Pri</u> | ce: | | | | dollars an | <u>d</u> | |
| | | | | | cents | | |

EXECUTION OF CONTRACT

| Concrete Spall Repair - \$ | /Square Foot (SF) |
|----------------------------|-------------------|
| Price: | dollars and |
| | cents |
| Concrete Crack Repair - \$ | /Linear Foot (LF) |
| Price: | dollars and |
| | cents |

AWARD WILL BE BASED ON THE FOLLOWING FORMULA WITH ESTIMATED QUANTITIES

Base Bid + 6000CY * \$/CY + 4000SF * \$/SF + 1600LF * \$/LF

NOTE: The price shall be printed in ink both words and figures. Any bid which fails to name a price both in words and in figures per unit and every item, wherein quantities are given, may be held to be non-responsive and may be rejected. In case of any discrepancy or conflict, the price written in words will take precedence over the written in figures.

WHAT THE PRICE IS TO COVER: The price is to include and cover the furnishing of the necessary shop drawings, machinery, tools, apparatus and other means of construction and all material and labor called for by the said Contract and specifications for the work, necessary to complete the work in the manner and within the time set forth in said Contract and specifications.

GENERAL CONDITIONS

Article I - DEFINITIONS:

<u>Commission</u>: the NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION,

(the "Commission") Wanaque, New Jersey; the party of the first part

to this Contract.

Contractor: the party of the second part to this Contract.

Contract: this Agreement covering the performance of the project and

payments therefore, including the general conditions, the Bid Specifications for **Contract #2087** (including any addendums/Clarifications) and all sheets, forms or documents

attached to the Bid Specifications or hereto.

Engineer: Commission's Engineering Staff.

Specifications: the Technical Specifications, (Exhibit A), and Drawings (Exhibit B)

included at the end of this Contract, incorporated herein by

reference.

Proposal: the proposal submitted by the Contractor, dated ______,

2022, incorporated herein by reference.

Article II - RIGHTS AND DUTIES OF THE ENGINEER:

- A. The Engineer shall, subject to the provision of Articles III and IV, give all orders and directions contemplated under this Contract and determine in all cases the amount, quality, acceptability and fitness of the work and materials which are to be paid for by the Commission to the Contractor.
- B. The Engineer shall have the right to reject any or all work which does not conform to the plans and specifications of this Contract, or is not completed in a workmanlike manner. He shall also have the right to reject materials which do not meet the specifications herein contained, have become damaged, rendered unsatisfactory, or have been supplied without evidence of quantity and/or quality such as labels, bills of lading, etc.
- C. The Engineer shall have the free access to the work whenever and wherever it is in progress, for purposes of inspection. If any work should be covered up with prior approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination at the Contractor's expense.
- D. The Engineer shall have the right to stop the work whenever such stoppage may be necessary for protection of the reservoir, for emergency conditions, or to prevent potential damage to property, equipment, or facilities and/or personal injury.
- E. The Engineer shall provide the Contractor with such basic lines, grades and points as are needed from which the Contractor shall establish such other points as he may

GENERAL CONDITIONS

need, unless otherwise specified.

Article III - REVIEW BY COMMISSION:

Notwithstanding anything herein contained, the Contractor shall have the right to appeal to the Commission, in accordance with Article XXII, concerning any matter in dispute and the Commission's decision on such appeal shall be final.

Article IV - CHANGES:

- A. Notwithstanding anything herein contained, no departure from or substitution, change or alteration in the terms, provisions or requirements of this Contract and the specifications thereof, shall be made without the prior order of the Commission as duly executed by its Chairman.
- B. The Engineer, however, shall have the right to make minor changes in the specifications during the conduct of the work if necessary in keeping with good engineering practice if such changes are consistent with the purpose, intent and/or conditions of the contract and shall not result in significant extra costs to the Contractor.
- C. Authorization for any additional work or materials (extras) requiring compensation not provided for in this Contract, or change orders, must be obtained in writing from the Commission. The Commission will not pay the Contractor for additional services or materials based on verbal agreements or conversations with a Commission employee.

Article V - OBLIGATIONS OF THE CONTRACTOR:

- A. The Contractor shall do all the work and furnish all the labor, supervision, transportation, materials, tools, equipment, etc., (except as herein otherwise provided) necessary and proper for safety in accordance with the specifications contained herein and labeled "TECHNICAL SPECIFICATIONS", and/or the direction of the Engineer. The Contractor shall complete said work to the total satisfaction of the Engineer at a price agreed upon and fixed by the terms of this Contract.
- B. It is understood that the Contractor shall have had an opportunity to carefully examine the areas and/or facilities involved in this Contract prior to entering into this Contract and that he has fully satisfied himself as to the nature and location of the work, subsurface conditions, the character of equipment and facilities needed, the time and labor requirements, and all such matters which can affect the work to be performed. The Commission will not be responsible for additional expenses incurred by the Contractor as a result of obtaining information from any person or employee of the Commission in lieu of personal inspection or investigation.
- C. The Contractor shall carefully preserve bench marks, reference points and stakes

GENERAL CONDITIONS

provided by the Engineer, and shall be responsible for any delays or mistakes that may be caused by their unnecessary loss or disturbance. The Contractor shall also carefully preserve all permanent property corners and bench marks, such as pipes, monuments, etc., and if lost or disturbed shall be responsible for resetting same, through the services of a licensed Land Surveyor whose services shall be paid for by the Contractor.

- D. The Contractor shall continuously provide adequate protection at the work site to prevent the possibility of injury to any and all persons or property whether of the Commission or not. The Contractor shall secure the work site at any time when work is temporarily halted by reason of weather, time, etc., by providing adequate barricades, fences, lighting, personnel, etc., so as to prevent injury to persons or property. All such damage, injury or loss, except as may be due to errors in the Contract or caused by employees of the Commission, shall be made good by the Contractor.
- E. The Contractor shall, during the progress of the work, attend the work site personally or through a competent English-speaking superintendent authorized to receive and carry out instructions.
- F. The Contractor will be required to check all dimensions and quantities on any drawings or specifications given to him by the Engineer. In case of error or omission, the Contractor will not be allowed to benefit thereby, and instead should report same to the Engineer to obtain special instructions.
- G. The Contractor shall be responsible for all materials, tools, equipment, etc., to be stored at or near the job site.
- H. The Contractor shall, upon completion of the work, and to the complete satisfaction of the Engineer, remove from all Commission and/or private property, at its own expense, all temporary structures, rubbish, spillage, waste materials, drums, etc., which have resulted from the Contractor's operations. Final inspection and/or acceptance of the project by the Engineer for payment will not be made until all work has been completed and all final cleaning operations have been performed.

Article VI - TIME FOR COMPLETING WORK, EXTENSION OF TIME, AND LIQUIDATED DAMAGES:

A. The Contractor shall achieve Substantial Completion within <u>Six Hundred and Seventy (670) Calendar Days</u> of the issuance of the Notice to Proceed by the Commission, and shall achieve Final Completion within <u>Seven Hundred and Thirty</u> (730) Calendar Days from the issuance of the Notice to Proceed by the Commission.

GENERAL CONDITIONS

- B. Working hours shall be between <u>7:00 a.m. to 5:00 p.m</u>. No work shall be permitted on Saturdays, Sundays and legal holidays without special prior consent of the Engineer.
- C. Written approval of an extension of time, obtained by the Contractor from the Engineer, shall be the sole and exclusive remedy to the Contractor as a result of delays in the commencement, prosecution or completion of the work, resulting from, but not limited to:
 - acts or omissions of the Commission or Engineer or other Contractor employed by the Commission, with respect to late drawings, plans or specifications, changes in sequence, lack of decision, lack of access, interference, errors, lack of approvals, erroneous bid specifications, lack of payments, issuance of change orders;
 - 2. differing site conditions, strikes, labor or material shortages, unusual delays in transportation and acts of God, such as tornadoes, earthquakes or extreme weather.
- D. The date of beginning and the time for completion, as specified herein, are ESSENTIAL CONDITIONS of this Contract; and it is agreed that the work embraced in this Contract shall be commenced within seven (7) days from the issuance of the Notice to Proceed. The work set forth in this Contract shall be prosecuted regularly, diligently and uninterruptedly at such rate of progress as shall insure full completion thereof within the time specified. It is expressly understood and agreed, by and between the Contractor and the Commission, that the time for the completion of the work described herein is a reasonable time for the completion of the same taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

E. LIQUATED DAMAGES

If the Contractor shall not complete the work within the same time herein specified, or any proper extension thereof granted by the Commission then the Contractor does hereby agree, as part consideration for the awarding of this contract, to pay the Commission <u>Two Hundred and Fifty Dollars (\$250.00) per calendar day</u>, commencing on the 1st day of failure to achieve Substantial Completion (i.e., upon the 671st calendar day) <u>and/or Five Hundred Dollars (\$500.00) per calendar day</u>, commencing on the 1st day of failure to achieve Final Completion (i.e., the 731st calendar day), not as a penalty, but as a liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contractor shall be in default after the time stipulated herein and in the **BID** for completing the work.

The Commission may, in its sole discretion, review any purported reasons for delay and consider an extension or change order pursuant to the terms of Contract. The Commission shall have the right to offset from monies owed the Contractor under

GENERAL CONDITIONS

this Contract any and all monies owed the Commission as Liquidated Damages.

- F. Time is of the essence for each and every portion of work required herein. Where additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence under this Contract.
- G. The Contractor will not be charged with liquidated damages when, in the opinion of the Engineer, the delay in completion of the work is due to unforeseeable cause beyond the control and without the fault or negligence of the Contractor, such as but not restricted to, differing site conditions, strikes, labor or material shortages, unusual delays in transportation and acts of God, such as tornadoes, earthquakes or extreme weather.

Article VII - CONTRACTOR'S INSURANCE AND INDEMNIFICATION REQUIREMENTS

A. The Contractor shall, at all times during the term of this Agreement, obtain and maintain continuously, at its own expense, and file with the North Jersey District Water Supply Commission (the Commission) and its insurance broker evidence of coverage as enumerated below.

1. Commercial General Liability Insurance:

Commercial General Liability Insurance, written on an industry standard occurrence form (CG 00 01), 1207 Edition or Equivalent

The Contractor shall maintain Products Completed Operations liability coverage for a period of at least 24 months following the Final Project Completion Date.

Such policy (ies) must provide the following minimum limits:

| \$2,000,000 | General Aggregate - Applies Per Project |
|-------------|---|
| \$1,000,000 | Products & Completed Operations Aggregate |
| \$1,000,000 | Personal & Advertising Injury |
| \$1,000,000 | Each Occurrence Limit |
| \$ 100,000 | Fire Damage Legal Liability |

Any deductible or self-insured retention must be disclosed and is subject to approval by the Commission. The Cost of any claim payments falling within the deductible shall be the responsibility of the Company.

2. Business Automobile Liability:

Including coverage for owned, non-owned, leased or hired vehicles, written on an industry standard form (CA 00 01) or equivalent. Such policy (ies) must provide the following minimum limits:

GENERAL CONDITIONS

\$1,000,000 Combined Single Limit (Bodily Injury & Property Damage)

Should include endorsement CA 9948 Pollution Endorsement

3. Worker's Compensation:

Worker's Compensation Limits: Statutory Employer's Liability:

\$1,000,000 Each Accident

\$1,000,000 Disease - Policy Limit

\$1,000,000 Disease – Each Employee

4. Excess/Umbrella Insurance:

Schedule of Underlying to include: General Liability, Employers Liability and Auto Liability as outlined above.

Minimum Limit of Liability: \$3,000,000 Per Occurrence

\$3,000,000 Aggregate

5. Evidence of Insurance:

The following documents must be provided in conjunction with a Certificate of Insurance:

- A copy of the endorsement naming the Commission as an Additional Insured, on Form CG2010 or equivalent on all policies except Worker's Compensation.
- A copy of an endorsement stating that the coverages provided by this policy to the Commission shall not be terminated, reduced or otherwise materially changed without providing at least thirty (30) days prior written notice to the Commission.
- A waiver of subrogation in favor of the Commission should apply under all the policies outlined in this section except for Worker's Compensation.
- General Contractor and Subcontractors "if any" are required to maintain the same level of coverage as outlined in section 1 and provide Certificates of Insurance and copies of supporting endorsements.

All policies must be rated A-VII or higher in the A.M. Best's Key Rating Guide and licensed to do business in the State of New Jersey or are an eligible Surplus Lines Insurer or are an acceptable Joint Insurance Fund.

GENERAL CONDITIONS

Acceptance by the Commission of deficit evidence of insurance does not constitute a waiver of contract requirement as provided by conditions of the contract.

B. Indemnification

The Contractor hereby agrees to fully indemnify, defend and hold harmless the Commissioners, their members, directors, officers, agents, servants, employees and successors and assigns from and against all losses, fines, penalties, damages, lawsuits, claims, causes of action, liabilities, demands, obligations to Contractor, and expenses, including attorneys' fees in connection with the loss of life, personal injury, bodily injury, and/or property damage, if occasioned in whole or in part by any negligent act or omission of the Contractor or the Contractor's agent's, servants, employees, and subcontractors in the performance of services and provision of goods under this contract. This obligation shall include the provision of a defense for the Commission at all stages of the claims or judicial process and together with all losses, fines, penalties, costs and expenses relating to any of the foregoing, including but not limited to, court costs and reasonable attorneys' fees arising out of this Contract and to enforce this indemnification provision.

Article VIII - LAWS, REGULATIONS AND PERMITS:

- A. The Contractor shall keep itself fully informed of all laws, ordinances and regulations or decrees which in any manner would affect persons or materials in any way used, engaged or employed in the work or which affect the conduct of the work.
 - If any discrepancy or inconsistency should be discovered in this Contract, or in the drawings or specifications herein referred to, in relation to any such law, ordinance, regulation, order of decree, the Contractor shall forthwith report the same in writing to the Commission.
- B. The Contractor shall at all times observe and comply with and shall cause all its agents and employees to observe orders and decrees, and shall protect, indemnify and save harmless the Commission and its officers and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Contractor, its employees or agents.
- C. Permits and/or licenses of a temporary nature which are necessary for the prosecution of the work shall be secured and paid for by the Contractor prior to commencement of such work as would require permits and/or licenses.

Article IX - ASSIGNMENT:

A. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this Contract, as a whole; or his right, title or interest in or to the same or any part thereof, without the previous consent in writing of the Commission endorsed herein or hereto attached; and it shall not assign, by power of attorney or otherwise, any of the monies

GENERAL CONDITIONS

to become due and payable under this Contract, unless by and with the like consent signified in like manner.

B. If the Contractor shall, without such previous written consent, assign, transfer, convey, sublet, or otherwise dispose of this Contract, or of its right, title or interest therein, or any of the monies to become due hereunder, this Contract may, at the option of the Commission, be revoked and annulled, and the Commission shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to its assignee or transferee; and the Commission shall be in nowise deprived of or restricted in its right to sue for and recover damages for any breach of this Contract.

Article X - PATENTS:

The Contractor shall hold itself responsible for claims made against the Commission for infringement of patents by the use of patented articles in the construction and completion of the work, or in any process connected with the work agreed to be performed under this Contract or with the materials used upon the said work, and shall indemnify and save harmless the Commission for all costs, expenses and damages which the Commission shall be obliged to pay by reason of any infringement of patents used in the construction and completion of the work, including attorney's fees.

Article XI - NEW JERSEY PREVAILING WAGE ACT (N.J.S.A 34.11-56.25 et seq.):

- A. The Contractor is put on notice that it must pay all of its employees rendering services under this Contract in compliance with the prevailing wage rates promulgated by the New Jersey Department of Labor, a copy of which is on file at the Commission's Administrative Offices in Wanaque, New Jersey, and is hereby made a part of this Contract. In addition, the Contractor shall conform to all other labor laws and statutes established in this State.
- B. In the event it is found that any employee of the Contractor or Subcontractor covered by this Contract has been paid a rate of wages less than the prevailing wages required to be paid by the Contractor or Subcontractor, this Commission shall have the right to terminate the Contract, or such part of the Contract as to which there has been a failure to pay the required wages and to prosecute the Contract to completion or otherwise. The Contractor and its sureties shall be liable to the Commission for any excess costs occasioned thereby.

Article XII - PAYMENTS:

The Contractor will be entitled to payment upon final inspection and acceptance of the Work by the Commission's Engineer, less any retainage held by the Commission, within sixty (60) days after (a) all portions of Project Work have been fully completed as required by the Contract to the satisfaction of the Engineer; and (b) the Engineer has certified such completion to the Commission.

GENERAL CONDITIONS

The Contractor agrees that he shall indemnify and save the Commission harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workmen, mechanics, materialmen and furnishes of machinery and parts thereof, equipment power tools, and all supplies, including commissary, incurred in the furtherance of the performance of this Contract. The Contractor shall, at the Commission's request, furnish satisfactory evidence that all obligations of the nature hereinabove designed have to be paid, discharged, or waived. If the Contractor fails to do so, then the Commission may, after having served written notice on the said Contractor, either pay unpaid bills, of which the Commission has written notice, directly or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor will be resumed, in accordance with the terms of this Contract, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Commission to the Contractor.

In paying any unpaid bills of the Contractor, the Commission shall be deemed the agent of the Contractor, and any payment, so made by the Commission, shall be considered as a payment made under the Contract by the Commission to the Contractor, and the Commission shall not be liable to the Contractor for such payment made in good faith.

A. **Payment**:

- Upon receipt of written notice from the Contractor that the project is complete, the Engineer will make a final inspection and will notify the Contractor in writing of any particulars in which this inspection reveals that the work is defective. The Contractor shall immediately make such corrections as are necessary to remedy such defects.
- When the Contractor has completed all such corrections to the satisfaction of the Engineer and delivered all maintenance and operating instructions, schedules, as-built drawings, guarantees, bonds, certificates and other documents, all as required by the Contract Documents, he may make application for final payment. The Engineer will review actual as-built field measurements, the amount of the work by the Contractor, and the value of such work pursuant to the terms of the Contract to determine whether to issue a final acceptance of the work. Upon final acceptance of the work, the Engineer will process the final payment upon receipt of a Maintenance Bond as described in these Specifications.
- 3. The acceptance by the Contractor of Final Payment shall be and shall operate as a release to the Commission of all claims and all liability to the Contractor for all things done or furnished in connection with this work and for every act or neglect of the Commission and others relating to or arising out of this work. No payment, however, final or otherwise, shall operate to release the Contractor or his Sureties from any obligation set forth in the Contract Documents, including any applicable performance, payment, maintenance

GENERAL CONDITIONS

bond or other type of bid security.

B. **Partial Payment**:

- 1. Prior to the start of the Work, the Contractor shall submit a project schedule to the Engineer which shall be sufficiently detailed to permit the Engineer, in his sole discretion, to determine when the Work is fifty percent (50%) complete. Partial payment is not guaranteed, but may be approved at the sole discretion of the Project Engineer and approval by the Board of Commissioners, in accordance with the Commission's standard payment process.
- 2. No claim by the Contractor for additional payment based on any error in any periodic estimate will be recognized.
- 3. The Commission may withhold payment for any of the following:
 - a. Failure to submit a revised progress schedule, which has been approved by the Engineer, with each partial payment request.
 - b. Defective work not corrected.
 - c. Claims filed or responsible evidence indicating a reasonable probability of claims being filed.
 - d. Failure of the Contractor to make proper payments to Subcontractor or for material or labor.
 - e. Unpaid damages by the Contractor to Subcontractor, the Commission, or any other agency or person.
 - f. In the judgment of the Engineer the project is not proceeding in accordance with the Contract or the Contractor is not complying with the requirements of the Contract Documents.
 - g. The Contractor is found in to be in default under the terms of the Contract.
- 4. No payment voucher shall protect the Contractor, and no claims shall be founded thereof by the Contractor in case of overpayment, or in case it shall at any time appear that the project or any part thereof has not been constructed, completed and maintained in strict accordance with the Contract Documents.
- No interim voucher shall be held to signify the approval of permanent work, materials, or other things to which such certificate relates and the Contractor shall not be relieved by any such certificates from any risks of liability to which he may be subject under the Contract until final payment hereinafter referred to has been granted to it.

GENERAL CONDITIONS

- 6. Errors in any monthly measurements or bill, on being discovered, will be rectified by the Engineer in subsequent measurements and bills.
- 7. If any work, the value of which has been included in any interim bill is damaged or destroyed and has to be removed or reconstructed by the Contractor, an amount representing the value of the work so damaged or destroyed, less any insurance monies therefore received by the Commission, will be deducted by the Engineer in succeeding partial payments until such time as work has been renovated or reconstructed.
- 8. State law requires that all claims for payments be approved by the governing body of the Commission. The Contractor shall allow six (6) to eight (8) weeks for receipt of partial payment after the payment has been approved by the Engineer.

Article XIII - MONEY MAY BE RETAINED:

The Commission may keep any monies which would otherwise be payable at any time hereunder, and apply the same, or so much as may be necessary therefore, to the payment of any expenses, losses or damages, as determined by the Engineer, incurred by the Commission which, pursuant to this Contract or the specifications shall be borne by the Contractor, and may retain until all claims shall have been settled so much of such monies as the Commission shall be of the opinion will be required to settle all claims against the Commission and its officers and agents and all claims for labor on the work, and also all these claims for materials.

Article XIV - REPAIRS, BOND'S, MAINTENANCE AND RETAINAGE:

- A. The Contractor shall at its own cost, upon notification from the Commission or Engineer, promptly make good any and all defects, in its work, or that of any subcontractor employed by it hereunder, which may occur or appear during the progress of the work.
- B. If, within ten (10) days after the delivery or mailing of notice in writing to the Contractor, or its agents, of the occurrence or appearance of any such fault in the work, the Contractor fails to remedy same, the Commission may remedy the same or cause it to be remedied without previous notice and/or in case of any emergency where, in the opinion of the Engineer, delay would cause serious loss or damage.
- C. The cost of any defects so remedied or caused to be remedied by the Commission shall be borne solely by the Contractor, and any sum expended, or any expense so incurred by the Commission shall be deducted from any money then due or thereafter growing due from the Commission to the Contractor.

GENERAL CONDITIONS

- D. In order to secure the performance of the above, the Contractor shall furnish a **Performance and Payment Bond to the Commission** at the time of execution of this Contract, in the sum of one hundred percent (100%) of the Contract price. Said bond shall be in form and content satisfactory to the Commission.
- E. Upon completion of the work hereunder and prior to its final acceptance by the Commission, the Contractor shall furnish the Commission with a <u>Maintenance Bond</u> in the amount of 100% of the Contract price which shall remain in full force and effect for a period of one year from the final date of acceptance of the work by the Commission. Said bond shall be in the form and content satisfactory to the Commission.
- F. The Commission shall retain **two percent (2%)** of the total contract amount of money due for a period of **six (6) months** from the date of final acceptance of all of the work by the Commission, to be applied to any defects not remedied by the Contractor by the end of the six-month period.

Article XV - TERMINATION OF LIABILITY:

Upon acceptance by the Contractor, or his authorized agents, of the final payment under the provisions of this Contract, the project shall be considered completed and the Contractor shall have no further interest or claim whatever against the Commission or any of its officers or agents, except for amounts kept or retained or otherwise specifically provided herein.

Article XVI - STATUTORY COMPLIANCE:

The Contractor is required to comply with all applicable laws, regulations and ordinances.

Article XVII - BUY AMERICAN ACTS:

Any successful bidder and his subcontractors, if any, must comply with all "Buy American" statutes or regulations, including <u>N.J.S.A.</u> 52:33-1 et seq.

The Commission reserves the right to accept non-domestic materials under this contract in accordance with N.J.S.A. 52:33-2 and 52:33-3, in the event: (i) it determines the use of domestic materials is "impractical" or "inconsistent with the public interest"; (ii) it determines that the cost of using domestic materials is "unreasonable"; or (iii) domestic materials of the class or kind sought are not mined, produced, or manufactured, as the case may be, in the United States in commercial quantities and of a quality satisfactory to the Commission.

Article XVIII - AFFIRMATIVE ACTION:

Bidders are required to comply with the requirements of <u>N.J.S.A.</u> 10:5-31 <u>et seq.</u> and <u>N.J.A.C.</u> 17:27-1 et seq.

GENERAL CONDITIONS

The Successful Bidder shall complete and submit an Initial Project Workforce Report Form AA-201 upon notification of the contract award. Proper completion and submission of this report shall constitute evidence of the Successful Bidder's compliance with the regulations. The Successful Bidder shall also submit a copy of the Monthly Project Workforce Report Form AA-202 once a month thereafter for the duration of the Contract to the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts in the Department of Treasury and to the Commission.

Additionally, during the performance of this Contract, the Contractor agrees as follows:

The Contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation, the Contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The Contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex;

The Contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the Contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The Contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act. However, if a subcontractor has a total workforce of four (4) or fewer employees or if the Contractor or subcontractor is performing under an existing Federally approved or sanctioned affirmative action program, the contract shall contain only the mandatory

GENERAL CONDITIONS

language required by N.J.A.C. 17:27-3.8(a).

When hiring or scheduling workers in each construction trade, the Contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the applicable employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Division may, in its discretion, exempt the Contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B and C, as long as the Division is satisfied that the Contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Division, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the applicable employment goal established in accordance with N.J.A.C. 17:27-7.2.

The Contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

- Α. If the Contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor shall, within three days of the contract award, seek assurances from the union that it will cooperate with the Contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:531 et seg., as supplemented and amended from time to time and the Americans with Disabilities Act. If the Contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five (5) days prior to the commencement of construction work, the Contractor or subcontractor agrees to attempt to hire minority and women workers directly, consistent with the applicable employment goal. If the Contractor's or, subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with the applicable employment goal, the Contractor's or subcontractor's agrees to be prepared to hire or schedule minority and women workers directly, consistent with the applicable employment goal, by complying with the hiring or scheduling procedures prescribed under B below; and the Contractor or subcontractor further agrees to take said action if it determines or is so notified by the Division that the union is not referring minority and women workers consistent with the applicable employment goal.
- B. If the hiring or scheduling of a workforce consistent with the employment goal has not or cannot be achieved for each construction trade by adhering to the procedures of (A) above, or if the Contractor does not have a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor agrees to take the following actions consistent with the applicable county employment goals;
- 1. To notify the public agency compliance officer, the Division, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;

GENERAL CONDITIONS

- 2. To notify any minority and women workers who have been listed with it as awaiting available vacancies;
- 3. Prior to commencement of work, to request the local construction trade union, refer minority and women workers to fill job openings, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
- 4. To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State training and Employment Service and other approved referral sources in the area until such time as the workforce is consistent with the employment goal;
- 5. If it is necessary to lay off some of the workers in a given trade on the construction site, to assure, consistent with the applicable State and Federal statutes and court decisions, that sufficient minority and women employees remain on the site consistent with the employment goal; and to employ any minority and women workers so laid off by the Contractor on any other construction site on which its workforce composition is not consistent with an employment goal established pursuant to rules implementing N.J.S.A. 10:5-31 et seq.;
- 6. To adhere to the following procedure when minority and women workers apply or are referred to the Contractor or subcontractor;
- i. If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the Contractor or subcontractor shall determine the qualifications of such individuals and if the Contractor's or subcontractor's workforce in each construction trade is not consistent with the applicable, employment goal, it shall hire or schedule those individuals who satisfy appropriate qualification standards. However, the Contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Division. If necessary, the Contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.
- ii. If the Contractor's or subcontractor's workforce is consistent with the applicable employment goal, the name of any interested women or minority individual shall be maintained on a waiting list for the first consideration, in the event the Contractor's or subcontractor's workforce is no longer consistent with the applicable employment goal.
- iii. If, for any reason, said Contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the Contractor or subcontractor shall inform the individual in writing of

GENERAL CONDITIONS

the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Division.

- iv. The Contractor or subcontractor shall interview the referred minority or women workers.
- 7. To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Division and submitted promptly to the Division upon request.
- C. The Contractor or subcontractor agrees that nothing contained in (B) above shall preclude the Contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the county employment goal, the Contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the Contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the Contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the Contractor shall submit to the public agency compliance officer and the Division an initial project workforce report (Form AA 201) provided to the public agency by the Division for distribution to and completion by the Contractor, in accordance with N.J.A.C. 17:27-7. The Contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this Contract to the Division and to the Public Agency Compliance Officer.

D. The Contractor and its subcontractors shall furnish such reports or other documents to the Division of Contract compliance & EEO as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Contract Compliance & EEO for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code at N.J.A.C. 17:27-1 et seg.

Article XIX - WORKER AND COMMUNITY RIGHT-TO-KNOW ACT (N.J.S.A. 34:5A-1 et seq.; N.J.A.C. 7:1G):

GENERAL CONDITIONS

This Act requires employers to label all containers of hazardous substances. All goods offered for purchase to the Commission must be labeled in compliance with the provisions of this Act.

Material Safety Data Sheets also must be supplied as is required by law.

Article XX - SAFETY:

All equipment and work methods utilized in this contract shall comply with O.S.H.A. and any other applicable local, State and Federal safety standards and regulations.

Article XXI – TAX EXEMPTION:

Purchases made by the Commission are exempt from payment of state sales taxes, and such tax shall not be included in the bid price.

Article XXII – DISPUTE RESOLUTION:

- A. **NOTICE** Written notice stating the general nature of each Claim, dispute, or other matter shall be delivered by the Contractor to the Commission's Executive Director promptly (but in no event later than thirty (30) days) after the start of the event giving rise thereto. Notice of the amount or extent of the claim, dispute, or other matter with supporting data shall be delivered to the Commission's Executive Director within sixty (60) days after the start of such event (unless the Executive Director allows additional time to submit additional or more accurate data in support of such Claim, dispute, or other matter). Any claim for an adjustment in Contract Price and/or Contract Time shall be prepared in accordance with the provisions of an official change order or contract amendment approved by the Board of Commissioners. Each Claim shall be accompanied by the Contractor's written statement that the adjustment claimed is the entire adjustment to which the Contractor believes it is entitled as a result of said event. The Commission will respond to the Contractor within sixty (60) days after receipt of the Contractor's last submittal.
- **B.** APPEAL FROM BOARD OF COMMISSIONER'S DECISION The Contractor may appeal the Board of Commissioner's decision rendered pursuant to the above Notice by delivering to the Commission within thirty (30) days after the date of such decision, a written notice of intention to appeal. The date of receipt of such notice by the Board of Commissioner's shall be the date upon which the time periods in these dispute resolution proceedings are calculated.
- C. WORK CONTINUANCE AND PAYMENT Unless otherwise agreed in writing, the Contractor shall continue to work, furnish required equipment and maintain the Schedule of the Work as outlined in the contract specifications during any dispute resolution proceedings. If Contractor continues to perform per the contract

GENERAL CONDITIONS

specifications, the Commission shall continue to make payments in accordance with this Agreement.

- **D. INITIAL DISPUTE RESOLUTION** Upon issuance of a written notice of intention to appeal, the parties shall endeavor to settle the dispute first through direct discussions. The senior executives of the parties, who for the Contractor shall have the authority to settle the dispute and for the Commission shall be the Executive Director, shall meet within twenty-one (21) days after the date of receipt by the Commission of the notice of intention to appeal. If the dispute is not settled within thirty (30) days from the referral of the dispute to the senior executives, the parties shall submit the dispute to mediation in accordance with Paragraph E.
- **E. MEDIATION** If the dispute cannot be settled pursuant to Paragraph D, the parties shall endeavor to settle the dispute by mediation under the current Construction Industry Mediation Rules of the American Arbitration Association before recourse to any other dispute resolution procedures. Once one party files a request for mediation with the other party and with the American Arbitration Association, the parties agree to conclude such mediation within one hundred twenty (120) days of filing of the request.

The Commission and the Contractor shall cooperate with American Arbitration Association and with each other in selecting a mediator from American Arbitration Association, panel of neutrals and in scheduling the mediation proceedings. The Commission and the Contractor shall participate in the mediation in good faith, and shall share equally in its costs. All communications, documents, and other materials, whether written or oral, made in the course of or relating to the mediation by the Commission or the Contractor, or their agents, employees, experts or attorneys, or by the mediator or American Arbitration Association, employees, are confidential and privileged, and inadmissible for any purpose in any court, administrative, or other proceeding, provided that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or nondiscoverable as a result of its use in the mediation. This agreement to mediate and any other agreement or consent to mediate entered into in accordance herewith as provided herein will be specifically enforceable under the laws of the State of New Jersey.

Either party may terminate the mediation at any time after the first session but the decision to terminate shall be delivered in person by the party's representative to the other party's representative and the mediator.

- **F. MULTIPARTY PROCEEDINGS** All parties necessary to resolve a claim or dispute shall be parties to the same dispute resolution proceeding. Appropriate provisions shall be included in all other contracts relating to the Work to provide for the consolidation of such dispute resolution procedures.
- **G. CONCLUSION OF MEDIATION** In the event that mediation is concluded without a resolution of the dispute, Contractor and Commission may exercise such rights and

GENERAL CONDITIONS

remedies as either may otherwise have under the Contract Documents or by applicable law in respect of any dispute.

H. If, in the sole opinion of the Commission, a dispute arises which imperils the timely completion of the work, an excessive increase in costs, a substantial risk of harm to the public health or welfare, or an emergency or exigency which must be addressed immediately, then the Commission may institute court, administrative, or other proceedings without prior compliance with the dispute resolution provisions contained in this Contract.

ARTICLE XXIII - COMPLIANCE WITH COMMISSION CONTRACT AWARD POLICIES:

Contractor represents and warrants that it has not made any contribution that would bar the Commission from awarding the Contractor this Contract pursuant to the contract award policies adopted by the Commission and set forth in the Commission's Accounting Policies and Procedures Manual. Contractor shall have a continuing duty to report any contribution it makes during the term of this Contract. Consistent with the requirements of the Commission's contract award policies, the Contractor acknowledges that it is prohibited from being awarded this Contract if Contractor has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate or holder of the public office of Governor, or to any State or county political party committee: (i) within the eighteen (18) months immediately preceding the commencement of negotiations for the contract or agreement; (ii) during the term of office of a Governor, in the case of contributions to a candidate committee and/or election fund of the holder of that office, or to any State or county political party committee of a political party nominating such Governor in the last gubernatorial election preceding the commencement of such term; or (iii) within the eighteen (18) months immediately preceding the last day of the term of office of Governor. in which case such prohibition shall continue through the end of the next immediately following term of the office of Governor, in the case of contributions to a candidate committee and/or election fund of the holder of that office, or to any State or county political party committee of a political party nominating such Governor in the last gubernatorial election preceding the commencement of the latter term.

It shall be a breach of the terms of this contract for Contractor to: (i) make or solicit a contribution in violation of either this subsection or the Commission's contract award policies; (ii) knowingly conceal or misrepresent a contribution given or received; (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee of any candidate or holder of the public office of Governor, or to any State or county party committee; (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the restrictions of this subsection; (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii) engage in any exchange of contributions to

GENERAL CONDITIONS

circumvent the intent of this subsection or Executive Order; or (viii) directly or indirectly, through or by any other person or means, do any act which would subject that entity to the restrictions of this subsection.

Contractor is advised of the responsibility to file an annual statement on political contributions with the New Jersey Election Law Enforcement Commission pursuant to N.J.S.A. 19:44A-20.13 (P.L. 2005, c.271, s.3) if the Contractor receives contracts in excess of \$50,000 from public entities in a calendar year. It is the Contractor's responsibility to determine if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

<u>Article XXIV – BUSINESS REGISTRATION CERTIFICATE</u>

- A. Business Registration: Pursuant to N.J.S.A. 52:32-44, **NORTH JERSEY DISTRICT WATER SUPPLY COMMISION** is prohibited from entering into a contract with an entity unless the bid/proposal/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of Treasury.
- B. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with its proof of business registration and that of any named subcontractor(s).
- C. Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Contracting Agency prior to the time a contract, purchase order or other contracting documents is awarded or authorized.
- D. During the course of contract performance:
 - (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
 - (2) the contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time.
 - (3) the contractor and any subcontractors providing goods or performing services under a contract, and each affiliates, shall collect and remit to the Director of Division of Taxation in the Department of Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et.seq.) on all sales of tangible personal property delivered to the State. Any questions in this regard can be directed to the Division of Taxation at (609)2925-6200. Form NJ-REG can be filled out at

GENERAL CONDITIONS

www.state.nj.us/treasury/revenue/busregcert.html.

- E. Before final payment is made under the contract, the contractor shall submit to the Contracting Agency a complete list of all subcontractors and their addresses.
- F. Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contract agency.

Article XXV - PUBLIC CONTRACTOR REGISTRATION

N.J.S.A. 34:11-56.48 et seq., required that a general or prime contractor and any listed subcontractors named in the contractor's bid proposal shall possess a certificate at the time the bid proposal is submitted. After bid proposal are received and prior to award of contract, the successful contractor shall submit a copy of the contractor's certification along with those of all listed subcontractors. All non-listed subcontractors and lower tier subcontractors shall be registered prior to starting work on the project. It is the general contractor's responsibility that all non-listed subcontractors at any tier have their certificate prior to starting work on the job.

Under the law a "contractor" is "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract" which is subject to the provisions of the New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25, et seq.) It applies to contractors based in New Jersey or any other state.

To register, a contractor must provide the State Department of Labor with a full and accurately completed application form. The form is available online at www.state.nj.us/labor/lsse/lspubcon.html. N.J.S.A. 34:11-56.55 specifically prohibits accepting applications for registration as a substitute for a certificate of registration.

ARTICLE XXVI – NEW JERSEY ANTI-DISCRIMINATION

Pursuant to N.J.S.A. 10:2-1, if awarded a contract, the contractor agrees that:

a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such material, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or

GENERAL CONDITIONS

subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;

- b. No contractor, subcontractor, nor any person on his behalf, shall in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engage in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account or race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex:
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$50.00 for each person for each calendar day which such a person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the public agency of any prior violation of this section of the contract.

Article - XXVII AMERICAN WITH DISABILITIES ACT 1990

The contractor and the owner do hereby agree that the provisions of Title 11 of the Americans with Disabilities Act of 1990 (the "Act") (42 U.S.C. S121 01 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made part of this contract. In providing any aid, benefit, or service on behalf of the owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the act. In the event that the contractor, its agents, servants, employees, subcontractors violate or are alleged to have violated the act during the performance of this contract, the contactor shall defend the owner in any action or administrative proceeding commenced pursuant to the act. The contractor shall indemnify, protect, and save harmless the owner, it agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind of nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or in connection therewith. In any and all complaints brought pursuant to the owner's grievance procedure, the contractor agrees to abide by any decision of the owner which is rendered

GENERAL CONDITIONS

pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the owner, or if the owners incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

The owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the contractor along with full and complete particulars of the claim, if any action or administrative proceeding is brought against the owner or any of its agents, servants, employees, the owner shall expeditiously forward to the contractor every demand, complaint, notice, summons, pleading, or other process received by the owner or its representatives.

It is expressly agreed and understood that any approval by the owner of the services provided by the contactor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless to the pursuant to this paragraph.

It is further agreed and understood that the owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any actions available to it under any other provisions of the Agreement or otherwise at Law.

<u>Article XXVIII – DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN</u>

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list found Division's website is on the at http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf. Bidders must review this list prior to completing the below certification. Failure to complete the certification will render a bidder's proposal non-responsive. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

GENERAL CONDITIONS

Article XXIX - DIANE B. ALLEN EQUAL PAY ACT

Pursuant to N.J.S.A. 34:11-56.14, a contractor performing "qualifying services" or "public work" to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see https://nj.gov/labor/equalpay/equalpay.html.

Article XXX – SAFETY MEASURES

All equipment and work methods utilized in this Contract shall comply with OSHA and all other applicable local, state and/or federal safety standards and regulations. Contractor and all subcontractors shall be required to attend a general Contract Safety Orientation prior to beginning construction.

Article XXXI – SECURITY MEASURES

The following measures must be adhered to as it relates to this contract:

- 1. The Contractor shall furnish a complete description of all equipment and vehicles that will enter onto Commission property. All equipment and vehicles will have ID or plate/tag numbers easily visible.
- 2. As required by the New Jersey Office of Counter Terrorism's Best Management Practices, Contractors must provide evidence that it has previously conducted a background check on all Contractor's employees who will be entering onto Commission property. Contractors shall provide the Commission with a corporate letter, on appropriate letterhead, stating the names of all employees who will require access to the Commission's property, and indicating that such background checks have, in fact, been performed. All subcontractors are also required to provide such employee list, and confirmation of background checks.

NO ONE WILL BE ALLOWED ONTO COMMISSION PROPERTY WITHOUT PRIOR APPROVAL.

3. No specialized individuals will be allowed onto Commission Property without being previously approved. This includes mechanics, fuel deliveries, sanitary facility maintenance, etc. The "Access Approval Form to Commission Facilities and Covid -19 Visitor Questionnaire" (Attachment #1) must be filled out completely, with a copy of GOOD QUALITY PHOTO ID, and submitted to the Commission at least twenty-four (24) hours prior to arrival. This form MUST be completed for every visit or delivery. Liquid delivery may be subject to sampling prior to entering onto Commission property. The Contractor shall make no claim against the

GENERAL CONDITIONS

Commission for loss of time associated with complying with this requested time frame.

- 4. Only the approved Contractor's employees and employees of any subcontractor listed by the Contractor on **page (I-24)** of the Bid Documents, and approved equipment will be allowed on Commission property.
- 5. Vehicles entering onto Commission property shall be subject to search.

NOTE: THE COMMISSION SHALL HAVE THE RIGHT TO EXPAND SECURITY REQUIREMENTS AND CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE COMMISSION FOR INCREASED SECURITY REQUIREMENTS MADE DURING THE LIFE OF THIS CONTRACT.

Article XXXII – PROMPT PAYMENT OF CONSTRUCTION CONTRACTS ACT

On September 1, 2006, the New Jersey Legislature passed the Prompt Payment of Construction Contracts Act, P.L. 2006, c.96.

P.L. 2006, c.96, provides, in part, as follows: "If a prime contractor has performed in accordance with the provisions of a contract with the owner and the billing for the work has been approved and certified by the owner or the owner's authorized approving agent, the owner shall pay the amount due to the prime contractor for each periodic payment, final payment or retainage monies not more than thirty (30) calendar days after the billing date, which for a periodic billing, shall be the periodic billing date specified in the contract. The billing shall be deemed approved and certified twenty (20) days after the owner receives it unless the owner provides, before the end of the 20-day period, a written statement of the amount withheld and the reason for withholding payment, except that in the case of a public or governmental entity that requires the entity's governing body to vote on authorizations for each periodic payment, final payment or retainage monies, the amount due may be approved and certified at the next scheduled public meeting of the entity's governing body, and paid during the entity's subsequent payment cycle, provided this exception has been defined in the bid specifications and contract documents."

GENERAL CONDITIONS

As a public entity that requires the authorization of its governing body for periodic or final payments, and payments for change orders or release of retainage, the Commission hereby places the prime contractor on notice that it not subject to the twenty (20) day period for the approval and certification of billings and, consistent with P.L. 2006, c. 96, in the event that the Commission is unable to obtain formal consideration and approval of any billing for work performed by a prime contractor as the basis for a periodic or final payment, or payments for change orders or retainage within the thirty (30) day time period mandated by P.L. 2006, c.96, the Commission shall place the billing for work performed on its next regularly scheduled meeting of its Board of Commissioners and, should such billing for work performed be approved, pay the approved amount to the prime contractor during the Commission's subsequent payment cycle.

Article XXXIII – CONFIDENTIALITY & NON-DISCLOSURE REQUIREMENTS:

The Contractor shall hold in trust and not reveal to any third party, except as provided in this Contract, between the Commission and the Contractor, any and all confidential or "Security Related" information as defined herein. The Contractor shall require its employees and subcontractors to comply with the provisions of this Contract, if applicable, as it pertains to confidentiality. This Section must be included in all subcontracts entered into by The Contractor. Confidential or "Security Related" information shall include:

- Any and all financial, statistical, personnel and/or technical data supplied to the Contractor.
- Any and all data, technical information, material gathered, originated, developed, prepared, used or obtained in the performance of this Contract, including results and opinions of the Contractor.
- Any and all communications between the Commission and the Contractor and the Contractor and any third party regarding the performance of this Contract.

The Contractor is required to protect the confidentiality of such data. Any use, copying, distribution, sale or offering of this data in any form by The Contractor, or any individual or entity in The Contractor's charge or employ for purposes not connected with this Contract, will be considered a violation of this Contract and may result in contract termination and The Contractor's suspension or debarment from State contracting. In addition, such conduct may be reported to the State Attorney General for criminal prosecution to the extent allowed by law.

It is further agreed that any information supplied by the Commission to The Contractor and any information developed by The Contractor in satisfaction of the Scope of Work within this Contract is subject to the following conditions and restrictions:

• Information received from or developed for the Commission is to be used solely for the purpose(s) established in this Contract.

GENERAL CONDITIONS

 The data confidentiality matters coming within this Contract shall continue beyond the completion of all work involved in this Contract, unless specifically waived in writing by the Commission.

Article XXXIV - GENERAL WARRANTY & GUARANTEE:

- A. In addition to other promises and warranties contained herein, the Contractor warrants that the labor and materials to be furnished and installed under this Contract will be new and free from defects in material and workmanship for a period of **one year from the date of completion by the Commission**. This warranty excludes damage or defect cause by abuse, modification, normal wear and tear, or improper maintenance or operation by persons other than the Contractor, its employees, subcontractors, or any other individual the Contractor utilizes to discharge its obligations under this Contract. In the event that the Commission determines, in its sole discretion, that the equipment furnished by the Contractor has failed prematurely or contains a defect in material or workmanship, then the Contractor shall repair or replace said defective free of charge and install said equipment free of charge. The Contractor shall proceed to remedy such defects in material and workmanship within seven (7) days of receipt of written notice from the Commission. All such replacement parts shall be shipped F.O.B., Commission's site.
- B. The Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of the Work that is not in accordance with the Contract Documents or a release of the Contractor's obligation to perform the Work in accordance with the Contract Documents:
 - 1. Observations by the Commission;
 - 2. The making of any milestone or final payment;
 - 3. The issuance of a certificate of Substantial Completion;
 - 4. Use or occupancy of the Work or any part thereof by the Commission;
 - 5. Any review and approval of a Submittal;
 - 6. Any inspection, test, or approval by others; or
 - 7. Any correction of defective Construction by the Commission.

Article XXXV- APPLICABLE LAW:

This Agreement shall be governed by the laws of the State of New Jersey without giving effect to principles of conflicts of law.

GENERAL CONDITIONS

Article XXXVI – TERMINATION:

This Agreement may be terminated by the Commission, with or without cause, upon three (3) days written notice to the Contractor. In the event of termination of this Agreement, the Commission shall only be responsible to pay the Contractor compensation for the Bridge Services rendered up to the date of the Contractor's receipt of written notice of termination.

Article XXXVII – NOTICES:

All notices, requests, demands and other communication provided for by this Contract shall be in writing and shall be deemed to have been given when mailed at any general branch United States Post Office enclosed in a certified postpaid envelope and addressed to the address of the respective party stated herein or to such changed address as the party may have fixed by notice.

Article XXXVIII- NON-WAIVER:

No delay or failure by either party in exercising any right under this Agreement, and no partial or single exercise of that right, shall constitute a waiver of that or any other right.

Article XXXIX- COUNTERPARTS:

This Agreement may be executed in two (2) or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

SIGNATURES ON THE FOLLOWING PAGE

CERTIFICATE OF ACKNOWLEDGMENT FOR CONTRACTOR (CORPORATION)

| IN WITNESS THEREOF, the parties h | nereto have | caused this o | contract to be duly and |
|-------------------------------------|---------------|-------------------------|----------------------------|
| properly executed in duplicate this | day of | | _ in the year of our Lord, |
| Two Thousand and Twenty-Two, copy, | thereof to re | main with the | Commission and one to |
| be delivered to the Contractor. | | | |
| | | | |
| | | RSEY DISTR JPPLY COM | |
| | | | |
| | BY: | OWARD L. BI | URRELL, CHAIRMAN |
| ATTEST: | | | |
| | | | |
| KIM DIAMOND, COMMISSION SECRE | TARY | | |
| | (CONTRA) | CTOD) | |
| | (CONTRA | JIOK) | |
| | BY: | | |
| | | | (SIGNATURE) |
| | | | (TYPED SIGNATURE) |
| | | | (TPED SIGNATURE) |
| | | | (TITLE) |
| ATTEST/WITNESS: | | | |
| * | (*Witi | ness must als | so complete page C-32) |
| (SIGNATURE) | | | <u> </u> |
| (T) (DED OLOMATUDE) | | | |
| (TYPED SIGNATURE) | | | |
| (TITLE) | | | |
| SEAL: | | | |

CERTIFICATE OF ACKNOWLEDGMENT FOR CONTRACTOR (CORPORATION)

| STATE OF | } | | |
|---|--|--|---|
| COUNTY OF | S.S. } | | |
| BE IT REMEMBERED, the year of our Lord, Two The of (Witness), who, being do | ousand and Twenty _personally appeare uly sworn, doth depo | day of Two before me, a Notary Publi d * ose and make proof to my sat | c of the State isfaction, that |
| named in the foregoing of Contractor, that the sale | contract, that the sea me was so affixed \ | I affixed is the proper corporate thereto and the said contraction was at the date and exect | e seal of said ct signed by aution thereof, |
| the | of said eed of said company, | d company, in the presence of s and that the said deponent ther | |
| NOTARY PUBLIC | | * WITNESS' SIGNATURE | |
| SWORN AND SUBSCRI | | TYPED SIGNATURE | |
| DAT | _, 2022. | TITLE | |

*Please note – this page must be completed by the person who attested/witnessed the execution of the contract on page C-31.

CERTIFICATE OF ACKNOWLEDGEMENT FOR CONTRACTOR (INDIVIDUAL)

| STATE OF | } S.S. | | |
|---|------------------------------|----------------------|--------------------------------------|
| COUNTY OF | 5.5. } | | |
| gear of our Lord, Two Thous personally being by me duly sworn, dot Contractor named in the forvoluntary act and deed. | appeared h depose and mak | e proof to my satisf | who faction, that he (she) is the |
| | | (COI | NTRACTOR) |
| | | (TYPE | ED SIGNATURE) |
| NOTARY PUBLIC: | | | |
| SWORN AND SUBSCRIBE | D TO BEFORE | | |
| ME THIS DAY OF | = | | |
| | 2022. | | |

CONTRACT #2087

CERTIFICATE OF ACKNOWLEDGEMENT FOR COMMISSION

| STATE OF | } S.S. |
|--|-----------|
| COUNTY OF | } |
| year of our Lord, Two Thousar (Commission Secretary) who be satisfaction, that she well know Commission, the Commission is the proper corporate seal of the said contract signed by DR . thereof, the Chairman of the presence of the said deponent that the said deponent that | In this |
| NOTARY PUBLIC: | |
| SWORN AND SUBSCRIBED | TO BEFORE |
| ME THIS DAY OF | |
| | 2022 |

CONTRACT #2087

EXHIBIT "A" TECHNICAL SPECIFICATIONS

CONTRACT #2087

EXHIBIT "B"

DRAWINGS

NORTH JERSEY DISTRICT WATER SUPPLY COMISSION CLARIFIER REHABILITATION, BASINS 1-4

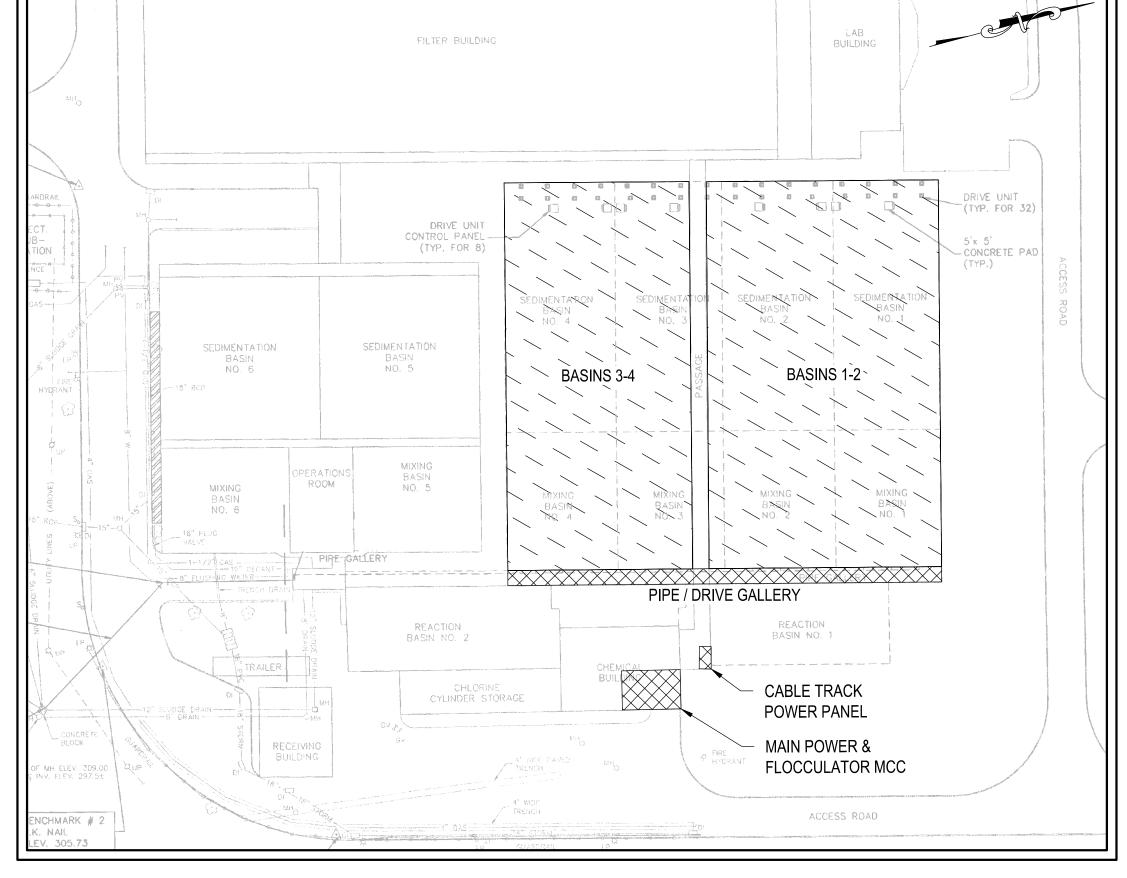
WANAQUE TOWNSHIP, PASSAIC COUNTY, NEW JERSEY **ISSUED FOR BID**

INDEX OF DRAWINGS

| SHEET | DRAWING | DRAWING TITLE | REV | DATE |
|----------------|----------------|-------------------------------------|---------------|-----------------------|
| NO. | NO. | DICAMINO TITLE | 1 \L V | DAIL |
| GENERAL | | | | |
| 1 | G-001 | COVER SHEET | 3 | 9/24/202 |
| 2 | G-002 | CONSTRUCTION PHASING | 2 | 9/24/202 |
| PROCESS | | | | |
| 3 | R-001 | EXISTING BASIN FLOW DIAGRAM | 4 | 9/24/202 |
| 4 | R-002 | PROPOSED BASIN FLOW DIAGRAM | 4 | 9/24/202 |
| 5 | R-003 | HYDRAULIC PROFILE | 5 | 9/24/202 |
| 6 | R-101 | DEMOLITION PLAN - GROUND LEVEL | 4 | 9/24/202 |
| | | | | |
| 7 | R-102 | DEMOLITION PLAN - UPPER LEVEL | 4 | 9/24/202 |
| 8 | R-103 | DEMOLITION PLAN - LOWER LEVEL | 4 | 9/24/202 |
| 9 | R-104 | POLYMER PIPING DEMOLITION | 3 | 9/24/202 |
| 10 | R-105 | VALVE DEMOLITION | 3 | 9/24/202 |
| 11 | R-201 | MECHANICAL PLAN - GROUND LEVEL | 4 | 9/24/202 |
| 12 | R-202 | MECHANICAL PLAN - UPPER LEVEL | 4 | 9/24/202 |
| 13 | R-203 | MECHANICAL PLAN - LOWER LEVEL | 4 | 9/24/202 |
| 14 | R-204 | POLYMER PIPING | 3 | 9/24/202 |
| 15 | R-301 | MIXING & SETTLING BASINS SECTION | 4 | 9/24/202 |
| 16 | R-401 | MECHANICAL DETAILS | 3 | 9/24/202 |
| | | | | |
| 17 | R-501 | SCHEDULES | 4 | 9/24/202 |
| MECHANIC | AL | | | |
| 18 | M-101 | OVERALL PLAN - GRADE | 1 | 9/24/202 |
| 19 | M-102 | OVERALL PLAN - UPPER SETTLING BASIN | 1 | 9/24/202 |
| 20 | M-301 | SECTIONS | 1 | 9/24/202 |
| 21 | M-302 | BAFFLE WALL SECTIONS | 1 | 9/24/202 |
| 22 | M-401 | ENLARGED PLANS | <u>·</u> 1 | 9/24/202 |
| 23 | M-501 | DETAILS | 1 | 9/24/202 |
| 24 | M-502 | DETAILS AND SCHEDULES | <u>'</u> 1 | 9/24/202 |
| | | DETAILS AND SCHEDULES | <u> </u> | 9/24/202 |
| ELECTRICA | | LEGEND AND CONTROL | | 0.10 : 1= |
| 25 | E-001 | LEGEND AND GENERAL NOTES | 3 | 9/24/202 |
| 26 | E-101 | ELECTRICAL CONDUIT PLAN | 2 | 9/24/202 |
| 27 | E-102 | ELECTRICAL POWER PLAN | 2 | 9/24/202 |
| 28 | E-103 | ELECTRICAL PIPE GALLERY PLAN | 2 | 9/24/202 |
| 29 | E-104 | ELECTRICAL DRIVE GALLERY PLAN | 2 | 9/24/202 |
| 30 | E-105 | ELECTRICAL PART PLANS | 2 | 9/24/202 |
| 31 | E-106 | ELECTRICAL PART PLANS | | 9/24/202 |
| | | | 2 | |
| 32 | E-201 | ELECTRICAL DETAILS | | 9/24/202 |
| 33 | E-202 | ELECTRICAL PHOTOGRAPHS | 1 | 9/24/202 |
| 34 | E-501 | ONE LINE DIAGRAM | 3 | 9/24/202 |
| 35 | E-502 | ELECTRICAL PANEL SCHEDULES | 2 | 9/24/202 |
| 36 | E-503 | CABLE/CONDUIT SCHEDULES | 2 | 9/24/202 |
| 37 | E-504 | IC CABLE AND CONDUIT BLOCK DIAGRAM | 1 | 9/24/202 |
| 38 | ED-101 | DEMOLITION LAYOUT | 2 | 9/24/202 |
| | | ELECTRICAL PIPE GALLERY DEMO | | |
| 39 | ED-102 | ELEVATION | 2 | 9/24/202 |
| | | ELECTRICAL DRIVE GALLERY DEMOLITION | | 0/2-1/202 |
| 40 | ED-103 | PLAN | 2 | 9/24/202 |
| 41 | ED 501 | | 3 | |
| | ED-501 | ONE LINE DIAGRAM DEMO | <u> </u> | 9/24/202 |
| NSTRUME | | I | | |
| 42 | I-001 | P&ID - LEGEND | 3 | 9/24/202 |
| 43 | I-002 | P&ID - MIXING / FLOCCULATION BASIN | 3 | 9/24/202 |
| 44 | I-003 | P&ID - LOWER SETTLING BASIN | 3 | 9/24/202 |
| 45 | I-004 | P&ID - UPPER SETTLING BASIN | 3 | 9/24/202 |
| 46 | I-005 | P&ID - EFFLUENT CHANNEL | 3 | 9/24/202 |
| 47 | 1-010 | NETWORK ARCHITECTURE DIAGRAM | 2 | 9/24/202 |
| 48 | 1-010 | NETWORK ARCHITECTURE DIAGRAM | 2 | 9/24/202 |
| STRUCTUF | _ | INCLINATION TO THE DIAGRAM | ۷ | 312 4 12UZ |
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| 49 | S-101 | MODIFICATIONS AND GENERAL NOTES | 2 | 9/24/202 |
| 50 | S-102 | BAFFLE WALLS - LAYOUT | 2 | 9/24/202 |
| 51 | S-103 | BAFFLE WALLS - SECTIONS | 2 | 9/24/202 |
| 52 | S-104 | REINFORCED CONCRETE WALL | 2 | 9/24/202 |
| | 0.405 | HORIZONTAL FLOCCULATOR & DRIVE | | |
| 53 | S-105 | SUPPORT | 2 | 9/24/202 |
| 54 | S-106 | BASIN SLUDGE FOOTBRIDGE AND RAILING | 2 | 9/24/202 |
| 55 | S-100 | MISC DETAILS 1 | 2 | 9/24/202 |
| | | | | |
| 56 | S-108 | MISC DETAILS 2 | 2 | 9/24/202 |
| 57 | S-109 | REINFORCED CONCRETE HEADER BEAM | 2 | 9/24/202 |
| 58 | S-110 | CONCRETE REPAIRS DETAILS | 1 | 9/24/202 |
| 59 | S-111 | LOWER BASIN SUBMARINE DOORS | 1 | 9/24/202 |
| | | HATCH AND EXISTING BAFFLE | | |
| 60 | S-112 | MODIFICATIONS | 1 | 9/24/202 |
| 61 | S-113 | FILTER CONDUIT STOP LOGS | 1 | 9/24/202 |
| | | | | |
| 62 | S-114 | BASIN CONDUIT STOP LOGS | 1 | 9/24/202 |
| LIGHTING | | I. = a=v= ···- · | | |
| 63 | L-001 | LEGEND AND GENERAL NOTES | 2 | 9/24/202 |
| 64 | L-101 | GRADE LEVEL | 2 | 9/24/202 |
| 65 | L-102 | UPPER LEVEL | 2 | 9/24/202 |
| 66 | L-103 | LOWER LEVEL | 2 | 9/24/202 |
| | L-103 L-104 | ELEVATIONS | 2 | 9/24/202 |
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| 67 | 1 004 | | | |
| 67 68 69 | L-201 L-301 | DETAILS PANEL SCHEDULE | 2 | 9/24/202 9/24/202 |



SITE LOCATION MAP $(1" = 500'\pm)$



WORK LOCATION MAP $(1" = 60'\pm)$

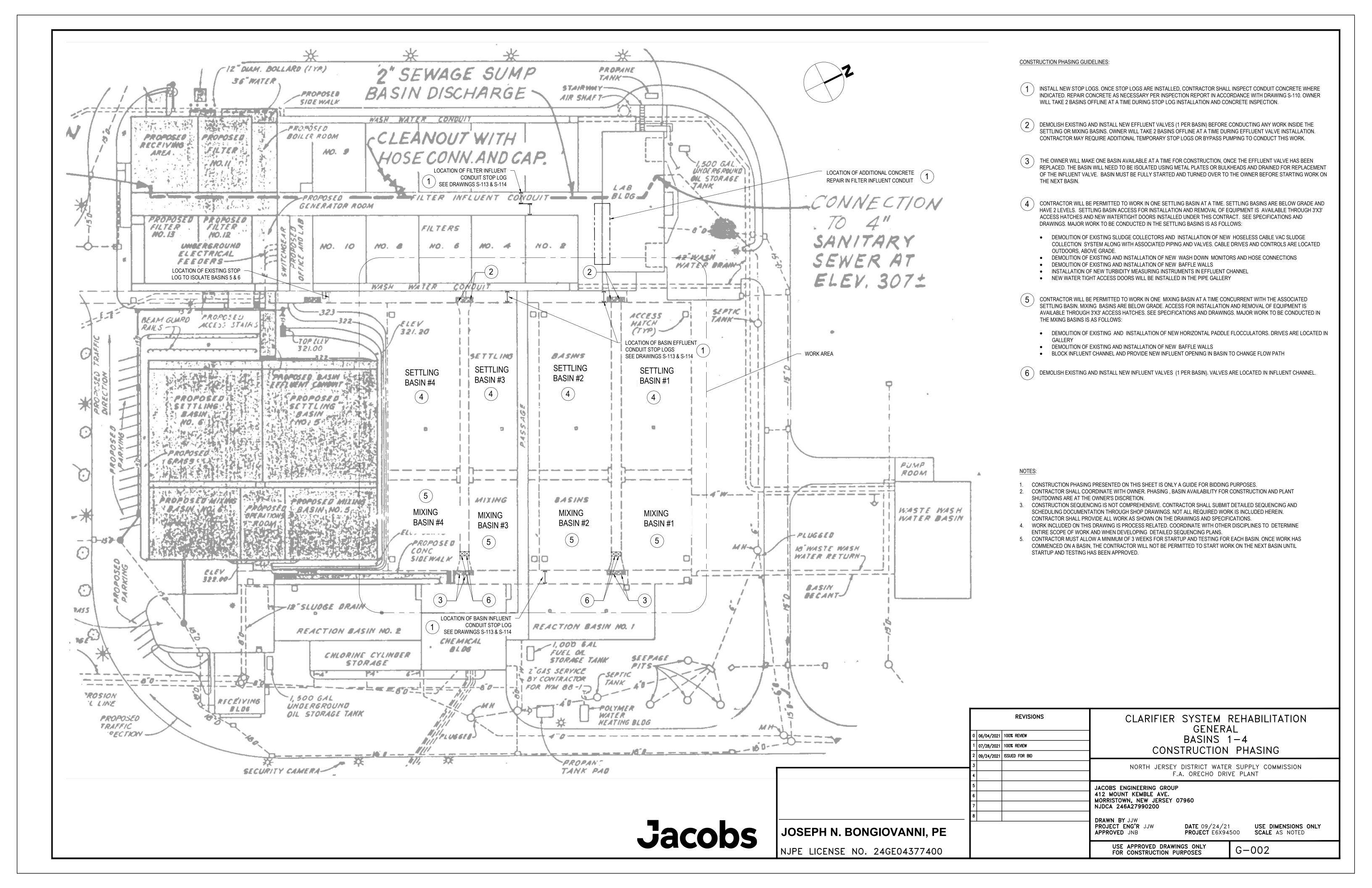
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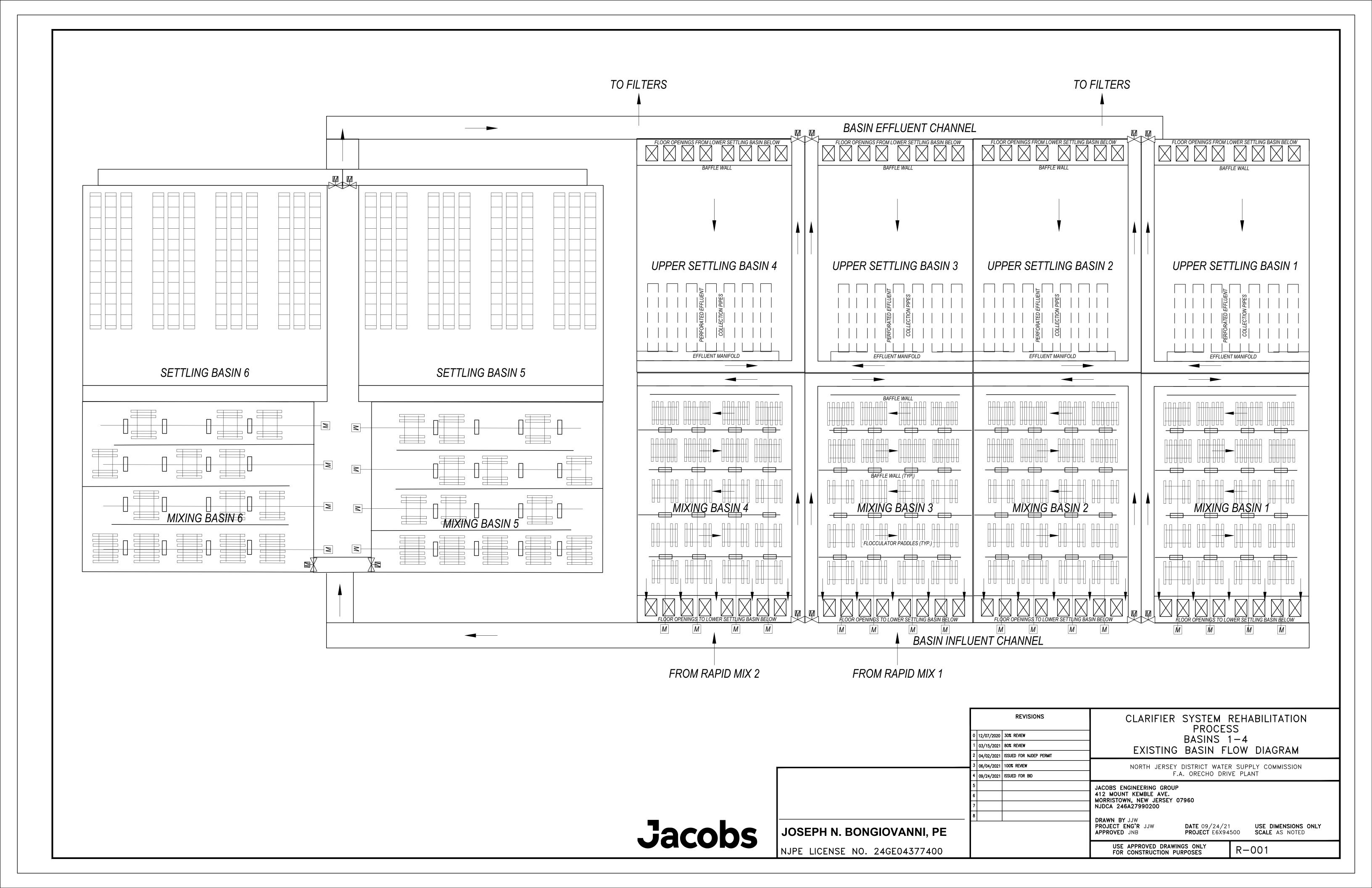
JACOBS Engineering Group Inc.

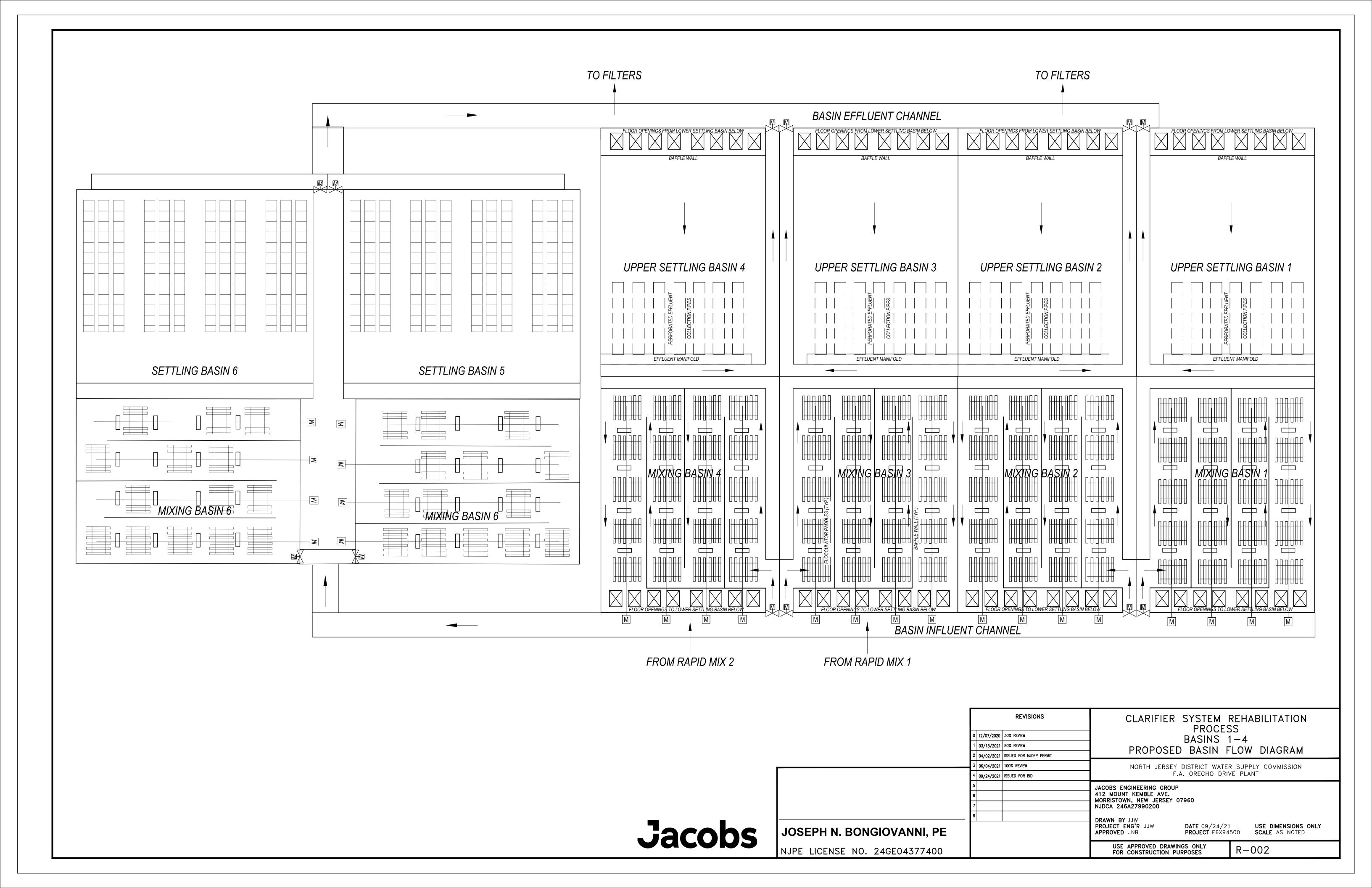
412 MOUNT KEMBLE AVENUE MORRISTOWN, NEW JERSEY 07960 SEPTEMBER 2021

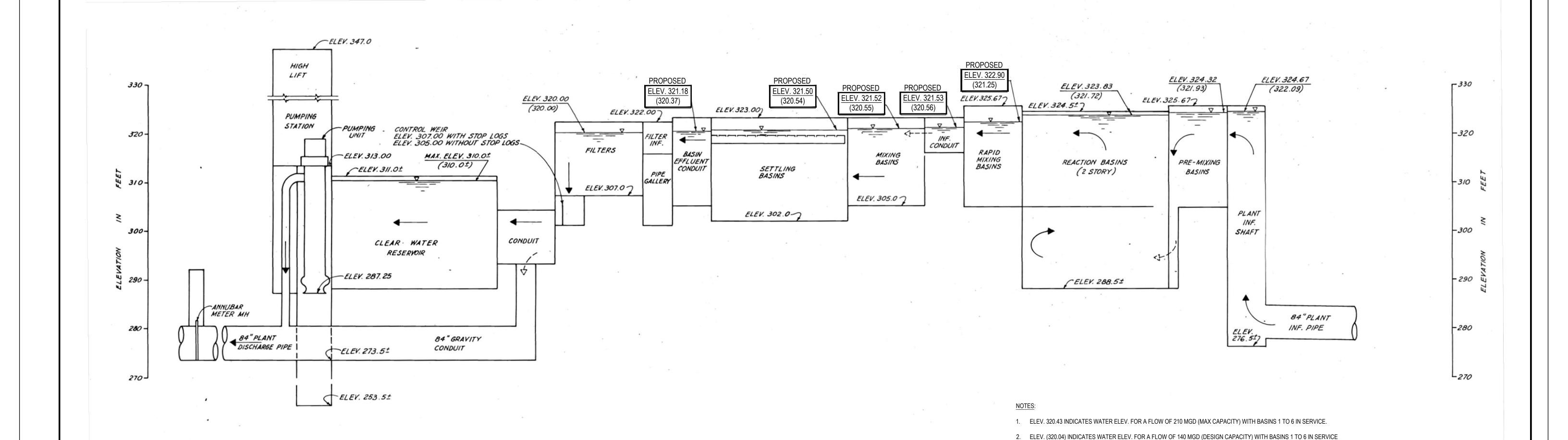
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| | 2 | 06/04/2021 | 100% REVIEW | | | COVER SI | | |
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| | 5 | | | | JACOBS ENGINEERING GROU | P | | |
| | 6 | | | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY | 07960 | | |
| | 7 | | | | NJDCA 246A27990200 | 0/900 | | |
| | 8 | | | | DRAWN BY JJW | | | |
| JOSEPH N. BONGIOVANNI, PE | • | | | | PROJECT ENG'R JJW APPROVED JNB | DATE 09/24/21 PROJECT E6X94 | | USE DIMENSIONS ONLY SCALE AS NOTED |
| NJPE LICENSE NO. 24GE04377400 | | | | | USE APPROVED DRAW FOR CONSTRUCTION P | | G- | 001 |









06/04/2021 100% REVIEW NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT 4 07/28/2021 100% REVIEW 5 09/24/2021 ISSUED FOR BID JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY JJW PROJECT ENG'R JJW APPROVED JNB JOSEPH N. BONGIOVANNI, PE USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

NJPE LICENSE NO. 24GE04377400

REVISIONS

0 12/07/2020 30% REVIEW 1 03/15/2021 80% REVIEW

2 04/02/2021 ISSUED FOR NJDEP PERMIT

3. TO OBTAIN APPROXIMATE ELEVATIONS RELATIVE TO THE VERTICAL DATUM NAVD 1988, THE HISTORICAL RECORD DRAWING ELEVATIONS IN NGVD 1929 SHOULD BE

REDUCED BY 0.98-FT, WHICH INCLUDES 0.81-FT TO CONVERT FROM NGVD 1929 TO NAVD 1988 AND A 0.17-FT DIFFERENCE DETERMINED BY 2018 FIELD INVESTIGATIONS.

CLARIFIER SYSTEM REHABILITATION

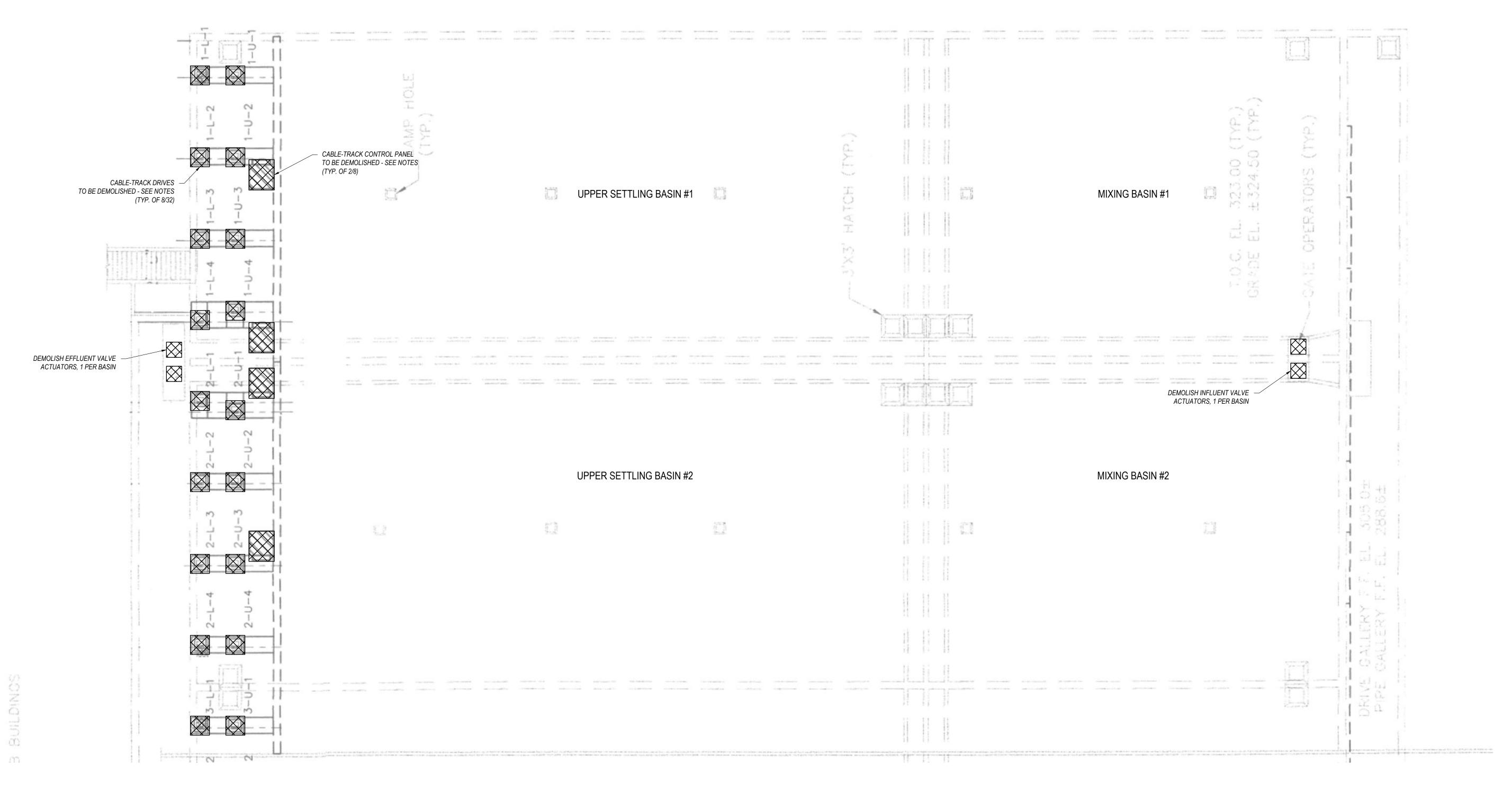
PROCESS
BASINS 1-4

HYDRAULIC PROFILE

DATE 09/24/21 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED

R-003





- 1. DEMOLISH CABLE TRACK DRIVES, ANCHOR BOLTS, CABLES AND COVERS; REPAIR ANY DAMAGE TO CONCRETE EQUIPMENT PAD.
- 2. DEMOLISH CABLE TRACK DRIVE EXPOSED CONDUIT AND WIRE BACK TO CONTROL PANEL.
- 3. DEMOLISH CONTROL PANEL 120V CONTROL WIRING AND CONDUIT AND 480V POWER WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOXES.
- 5. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.



| | | REVISIONS | CLARIFIER SYSTEM REHABILITATION PROCESS | | | | | | |
|---|------------|-------------------------|--|--|--|--|--|--|--|
| 0 | 12/07/2020 | 30% REVIEW | BASINS 1-4 | | | | | | |
| 1 | 03/15/2021 | 80% REVIEW | DEMOLITION PLAN — GROUND LEVEL | | | | | | |
| 2 | 04/02/2021 | ISSUED FOR NJDEP PERMIT | DEMOCITION LEAN GROOND ELVEL | | | | | | |
| 3 | 06/04/2021 | 100% REVIEW | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | | | |
| 4 | 09/24/2021 | ISSUED FOR BID | F.A. ORECHO DRIVE PLANT | | | | | | |
| 5 | | | JACOBS ENGINEERING GROUP | | | | | | |
| 6 | | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | | | | | | |
| 7 | | | NJDCA 246A27990200 | | | | | | |
| | | | | | | | | | |

JOSEPH N. BONGIOVANNI, PE NJPE LICENSE NO. 24GE04377400

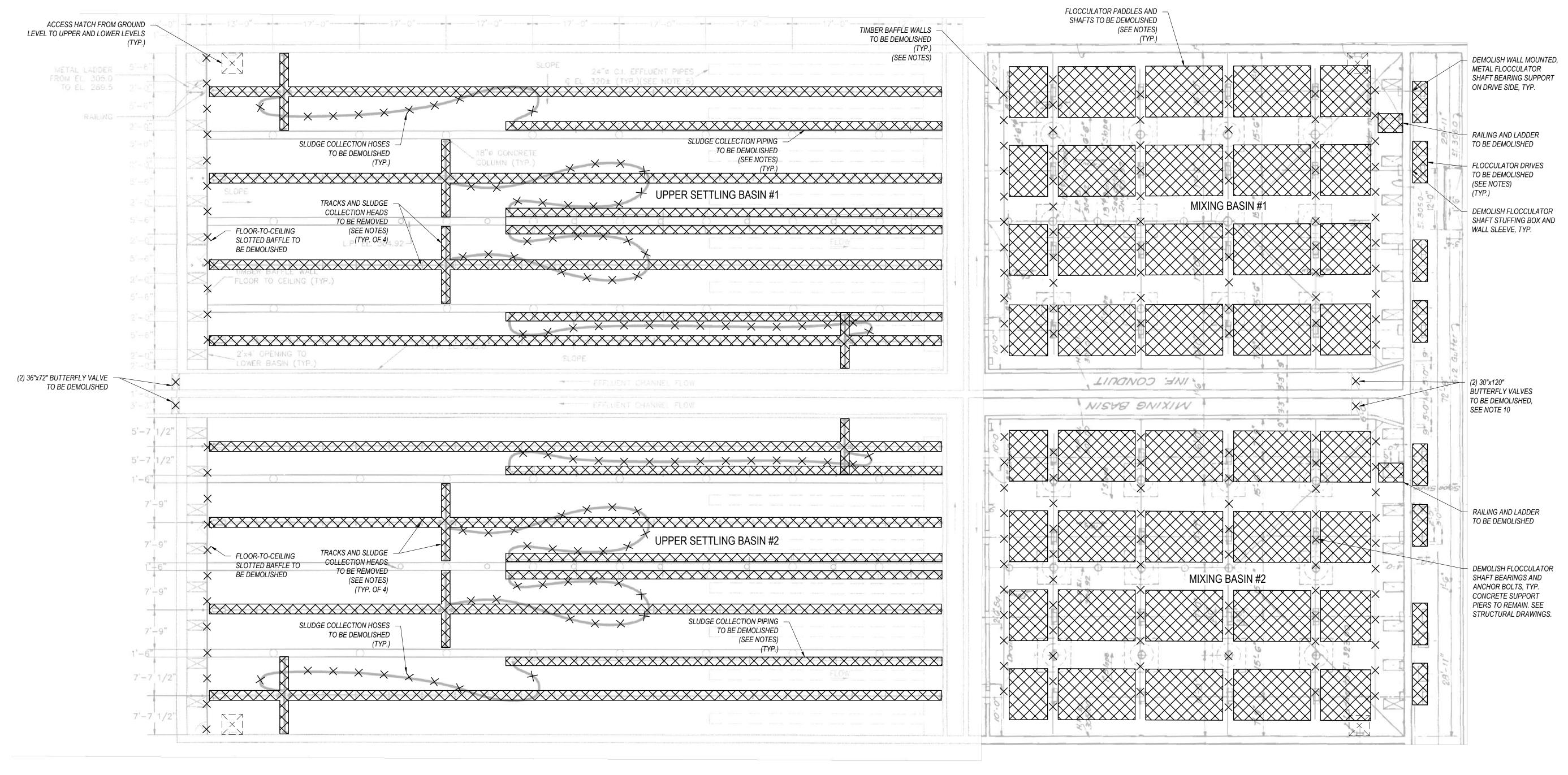
DRAWN BY JJW PROJECT ENG'R JJW APPROVED JNB

DATE 09/24/21 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED

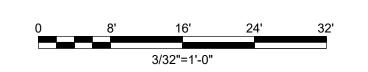
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

R-101



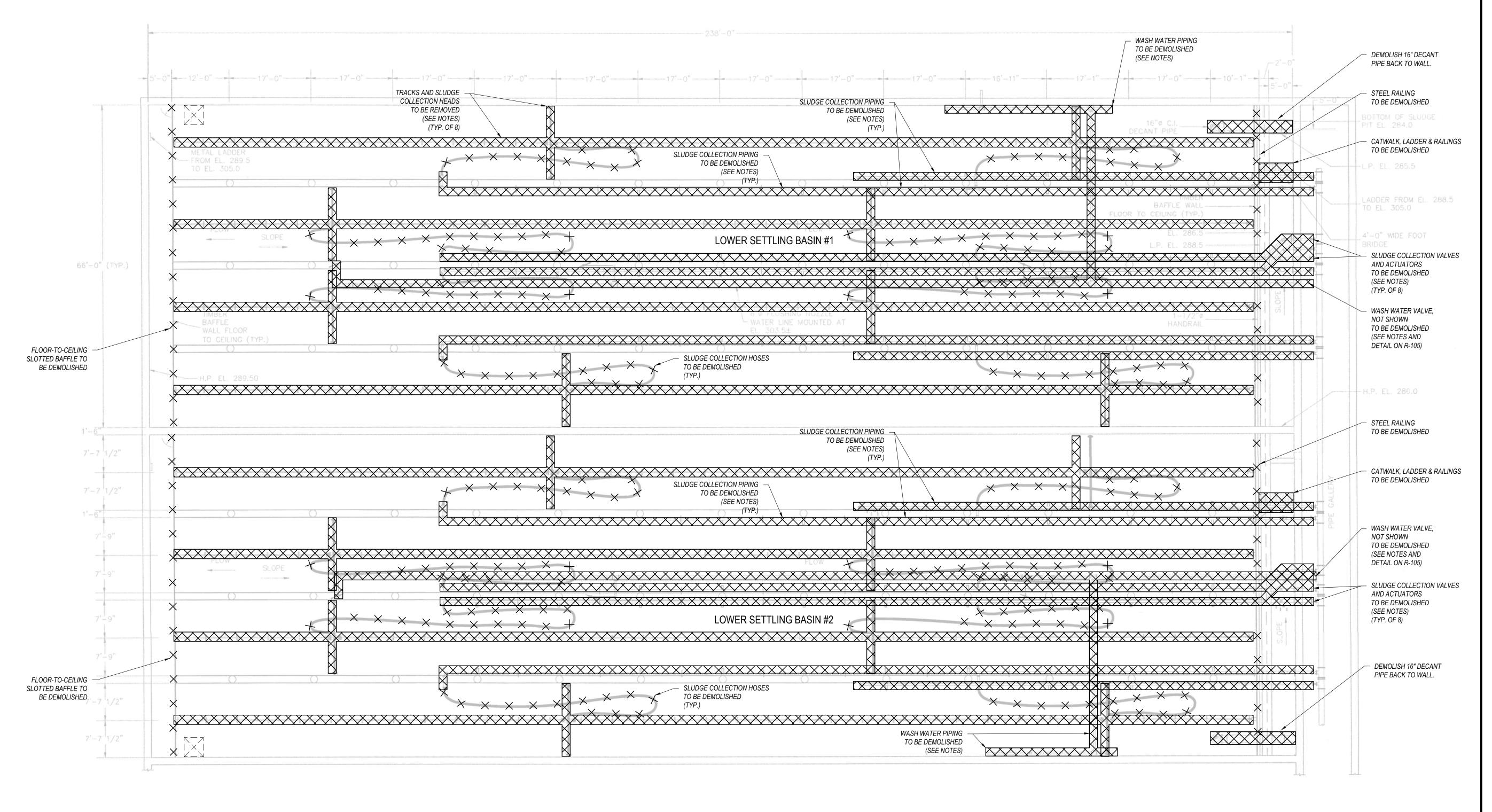


- 1. DEMOLITION OF TRACKS SHALL INCLUDE ALL CABLES AND PULLEYS.
- DEMOLITION OF SLUDGE COLLECTION PIPING SHALL INCLUDE EXISTING PIPE HANGERS, SUPPORTS, ETC.
- 3. DEMOLITION OF TIMBER BAFFLE WALLS SHALL INCLUDE ALL MOUNTING BRACKETS, HARDWARE, ETC.
- 4. DEMOLITION OF FLOCCULATOR PADDLES AND SHAFTS SHALL INCLUDE ALL BEARINGS AND SUPPORTS AT AND THROUGH BASIN AND BAFFLE WALLS. CONCRETE PIERS TO REMAIN.
- 5. DEMOLITION OF FLOCCULATOR DRIVES SHALL INCLUDE MOTORS, BEARINGS, CHAINS & SPROCKETS, CHAIN GUARDS AND HOUSEKEEPING PADS. HOUSEKEEPING PADS SHALL BE DEMOLISHED TO FLOOR LEVEL.
- 6. DEMOLISH POLYMER PIPING, DIFFUSERS AND SUPPORTS, NOT SHOWN. SEE DRAWING R-104.
- 7. ALL DIMENSIONS AND EQUIPMENT SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 8. NJDWSC TO REMOVE SLUDGE AND ANTHRACITE FROM UPPER / LOWER SETTLING BASINS. CONTRACTOR TO REMOVE SLUDGE AND ANTHRACITE FROM MIXING BASIN. DISPOSAL OF MATERIAL WILL BE ON SITE.
- 9. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.
- 10. DEMOLISH EXISTING VALVE, RISER STEM, ACTUATOR, CHANNEL MOUNTED WALL THIMBLES, GROUT INFILL AND THIMBLE ANCHOR BOLTS. REPAIR CHANNEL AS NECESSARY TO INSTALL NEW CHANNEL MOUNTED THIMBLES. SEE DETAILS ON R-105.
- 11. ACCESS TO THE MIXING / SETTLING BASINS AND REMOVAL OF EQUIPMENT MUST BE MADE THROUGH EXISTING 3'-0" x 3'-0" ACCESS HATCHES. CONTRACTOR MUST FIELD VERIFY ACTUAL INTERIOR HATCH DIMENSIONS.

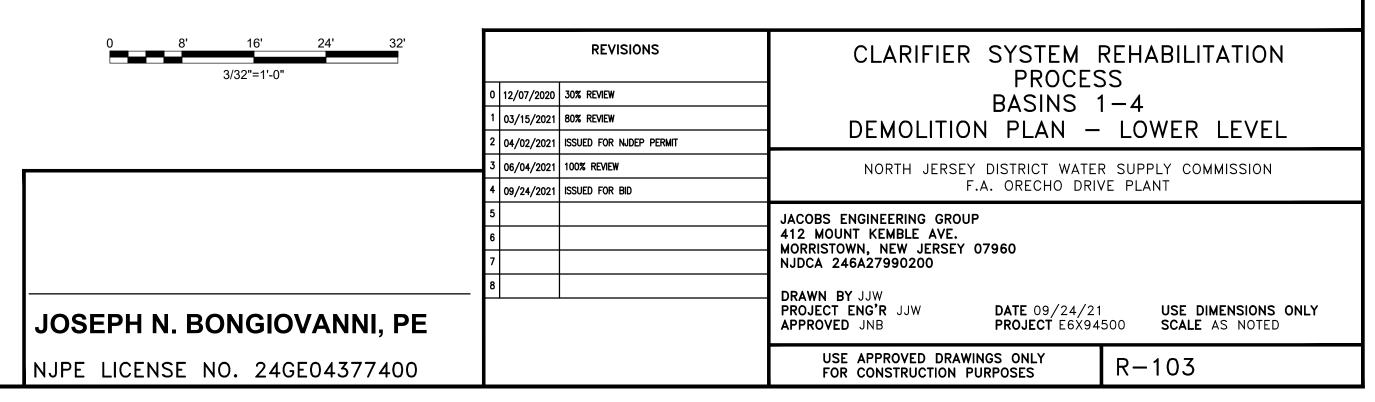


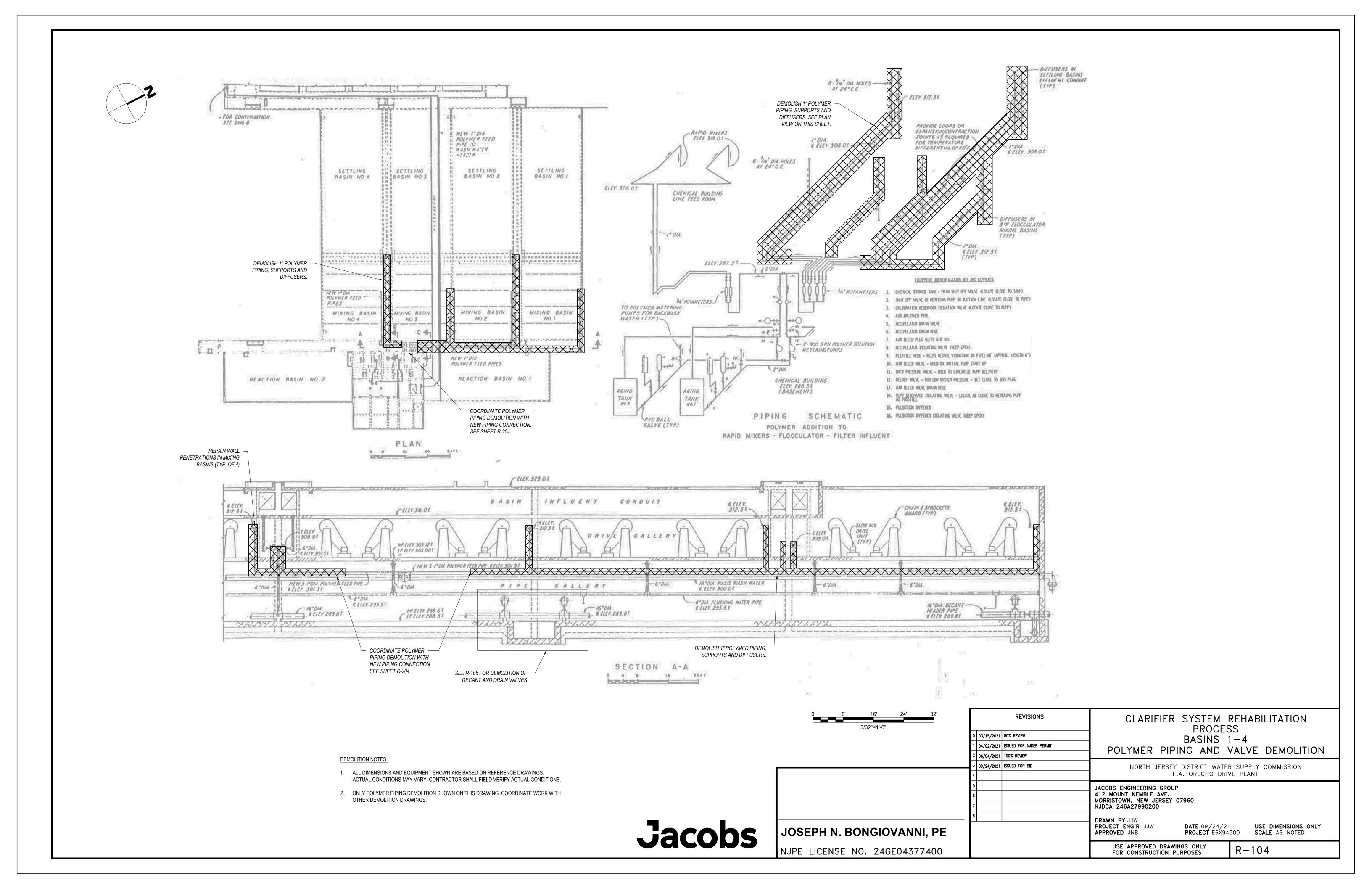
| | REVISIONS | CLARIFIER SYSTEM REHABILITATION PROCESS |
|-------------------------------|--------------------------------------|--|
| | 0 12/07/2020 30% REVIEW | BASINS 1-4 |
| | 1 03/15/2021 80% REVIEW | DEMOLITION PLAN — UPPER LEVEL |
| | 2 04/02/2021 ISSUED FOR NJDEP PERMIT | DEMOCITION TEAM OFFER LEVEL |
| | 3 06/04/2021 100% REVIEW | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION |
| | 4 09/24/2021 ISSUED FOR BID | F.A. ORECHO DRIVE PLANT |
| | 5 | JACOBS ENGINEERING GROUP |
| | 6 | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 |
| | 7 | NJDCA 246A27990200 |
| | 8 | DRAWN BY JJW |
| JOSEPH N. BONGIOVANNI, PE | | PROJECT ENG'R JJW APPROVED JNB DATE 09/24/21 PROJECT E6X94500 SCALE AS NOTED |
| NJPE LICENSE NO. 24GE04377400 | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES R-102 |
| | | |

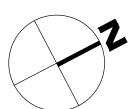


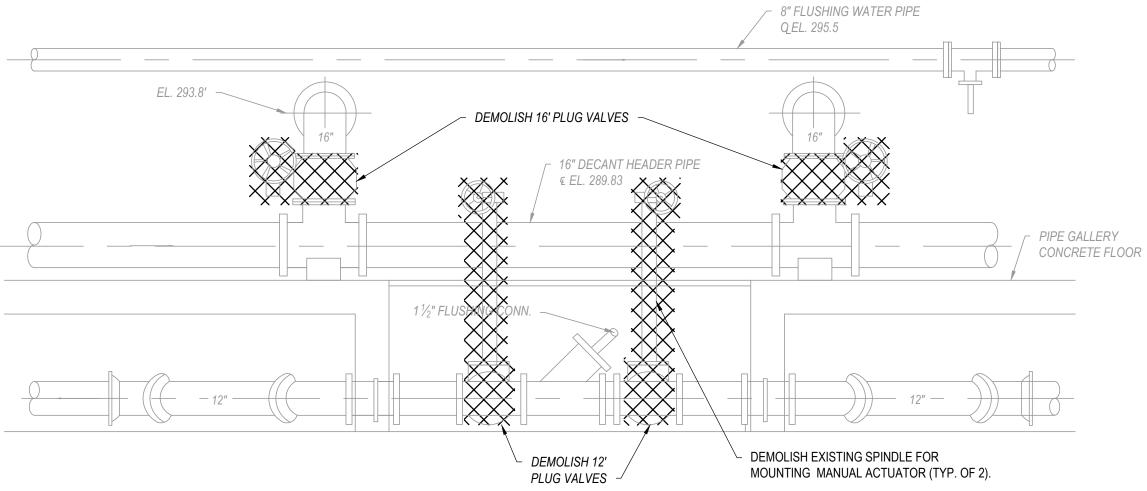


- 1. DEMOLITION OF TRACKS SHALL INCLUDE ALL CABLES AND PULLEYS.
- 2. DEMOLITION OF SLUDGE COLLECTION AND WASH WATER PIPING SHALL INCLUDE EXISTING PIPE HANGERS, SUPPORTS, WALL SLEEVES, LINK-SEALS, ETC.
- 3. DEMOLITION OF VALVES SHALL INCLUDE REMOVAL OF ACTUATORS AND WIRING TO NEAREST PULL BOX. A TEMPORARY BLIND FLANGE WITH GASKET AND HARDWARE SHALL BE PLACED ON OPEN TEE BRANCH.
- 4. DEMOLISH POLYMER PIPING, DIFFUSERS AND SUPPORTS, NOT SHOWN. SEE DRAWING R-104.
- 5. ALL DIMENSIONS AND EQUIPMENT SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 6. NJDWSC TO REMOVE SLUDGE AND ANTHRACITE FROM UPPER / LOWER SETTLING BASINS. CONTRACTOR TO REMOVE SLUDGE AND ANTHRACITE FROM MIXING BASIN. DISPOSAL OF MATERIAL WILL BE ON SITE.
- 7. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.
- 8. ACCESS TO THE MIXING / SETTLING BASISN AND REMOVAL OF EQUIPMENT MUST BE MADE THROUGH EXISTING 3'-0" x 3'-0" ACCESS HATCHES. CONTRACTOR MUST FIELD VERIFY ACTUAL INTERIOR HATCH DIMENSIONS.



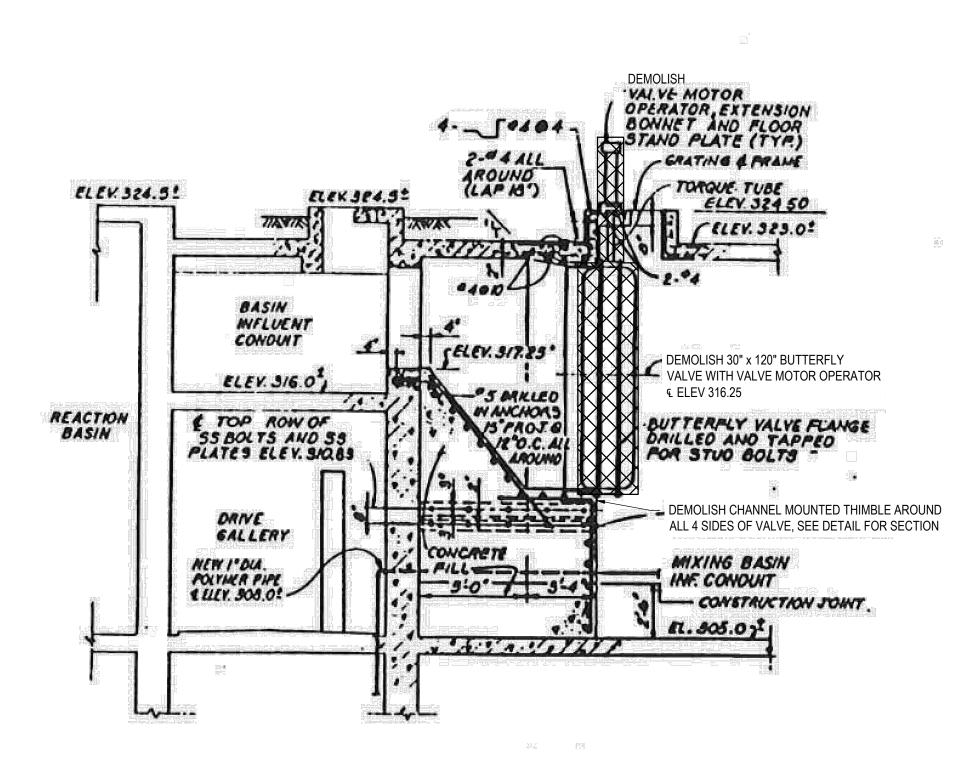






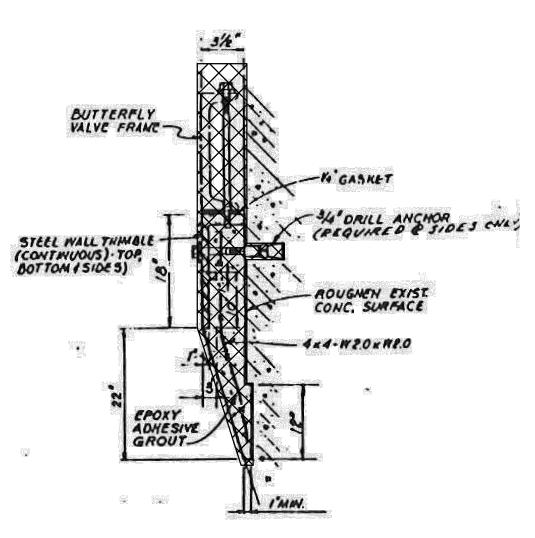
- 1. ALL DIMENSIONS, ELEVATIONS, PIPING AND EQUIPMENT SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 2. DEMOLISH DECANT AND DRAIN VALVES FOR ALL 4 BASINS. DRAWINGS ONLY SHOW VALVES FOR BASINS 2 AND 3. BASINS 1 AND 4 ARE SIMILAR.

DECANT AND DRAIN VALVE DEMOLITION N.T.S.

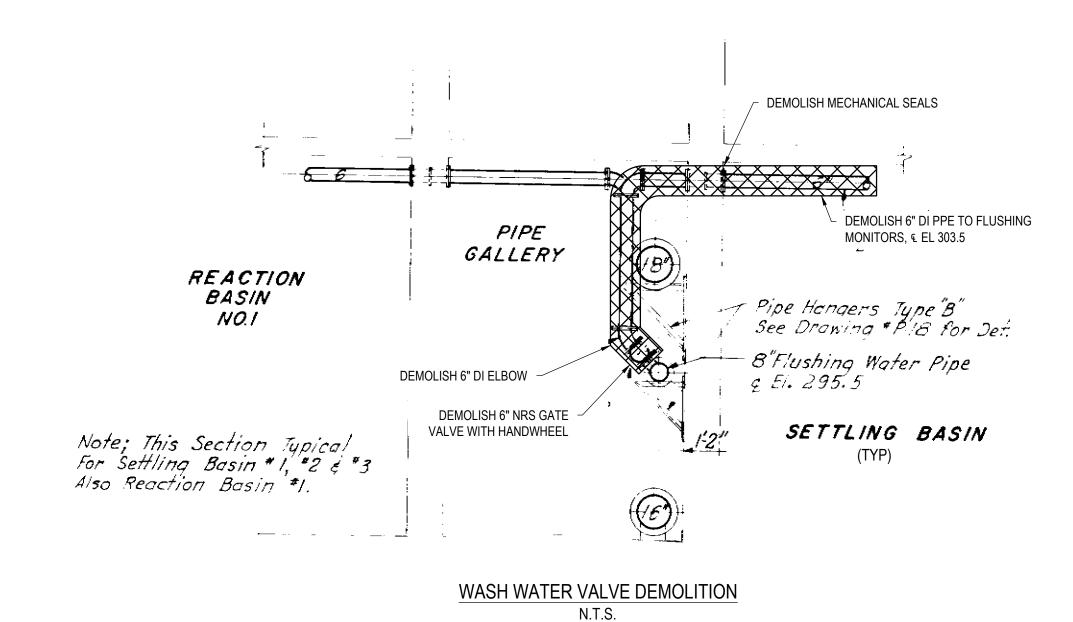


INFLUENT RECTANGULAR BUTTERFLY VALVE DEMOLITION



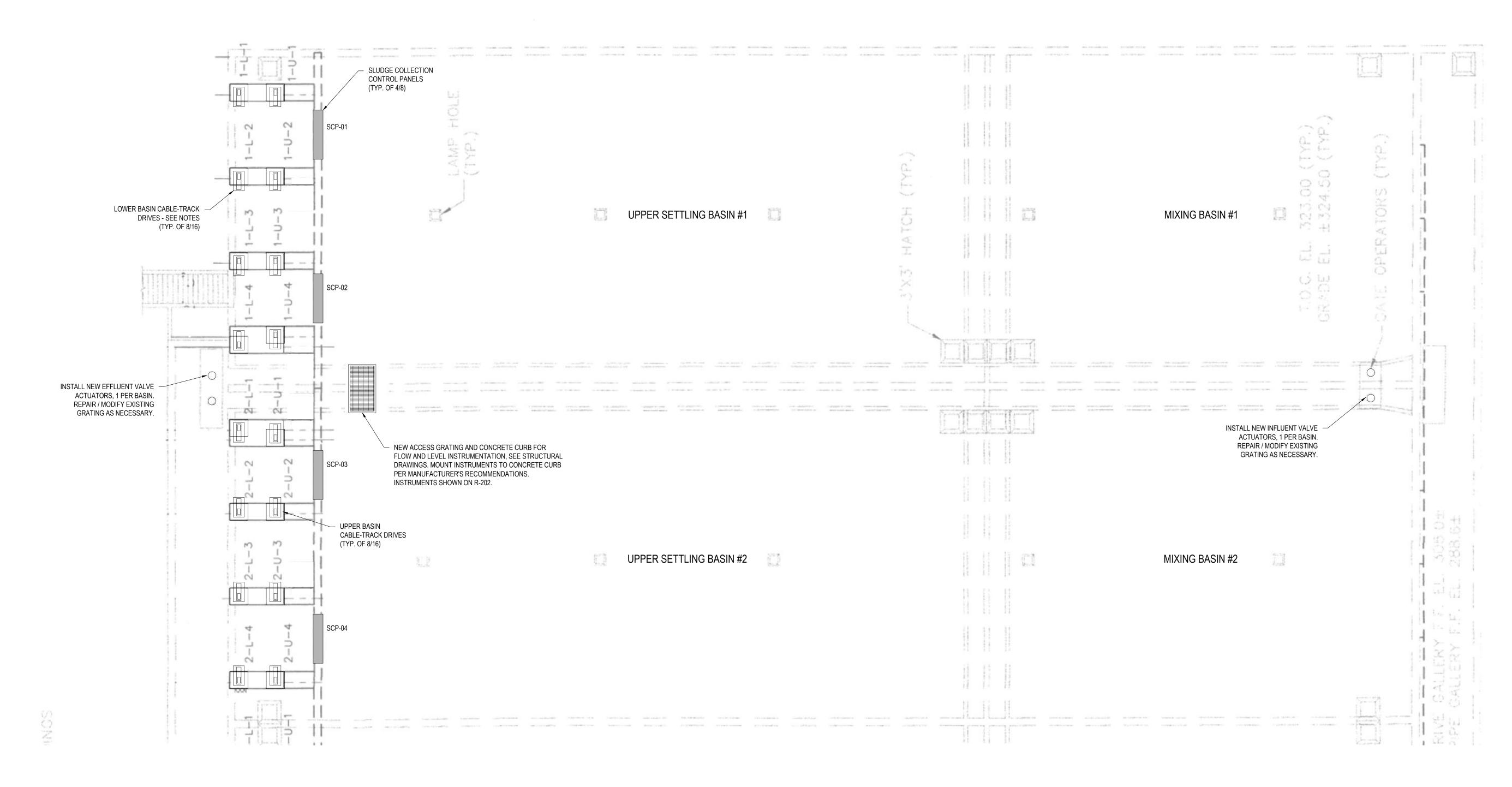


CHANNEL MOUNTED THIMBLE DEMOLITION DETAIL



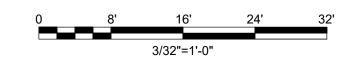
| 0 8' 16' 24' 32' 3/32"=1'-0" | REVISIONS | DECANT AND DRAIN VALVE DEMOLITION PROCESS |
|---------------------------------|--------------------------------------|--|
| | 0 03/15/2021 80% REVIEW | BASINS 1-4 |
| | 1 04/02/2021 ISSUED FOR NJDEP PERMIT | VALVE DEMOLITION |
| | 2 06/04/2021 100% REVIEW | VALVE DEMOLITION |
| | 3 09/24/2021 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION |
| | 4 | F.A. ORECHO DRIVE PLANT |
| | 5 | JACOBS ENGINEERING GROUP |
| | 6 | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 |
| | 7 | NJDCA 246A27990200 |
| | 8 | DRAWN BY JJW |
| SEPH N. BONGIOVANNI, PE | | PROJECT ENG'R JJW APPROVED JNB DATE 09/24/21 PROJECT E6X94500 SCALE AS NOTED |
| PE LICENSE NO. 24GE04377400 | | use approved drawings only for construction purposes R-105 |





NOTE

- 1. ALL DIMENSIONS EXISTING EQUIPMENT, CONCRETE EQUIPMENT PADS, SUPPORTS, ETC. SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 2. COORDINATE WITH EQUIPMENT MANUFACTURERS TO PROVIDE EQUIPMENT THAT WILL FIT IN EXISTING SPACE.
- 3. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.
- 4. SEE STRUCTURAL DRAWINGS FOR MODIFICATIONS TO CABLE-TRACK DRIVE CONCRETE EQUIPMENT PADS.



| REVISIONS | CLARIFIER SYSTEM REHABILITATION PROCESS | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|
| 30% REVIEW | BASINS 1-4 | | | | | | | |
| 80% REVIEW | MECHANICAL PLAN — GROUND LEVEL | | | | | | | |
| ISSUED FOR NJDEP PERMIT | MICHANICAL I LAN - GROUND LLVLL | | | | | | | |
| 100% REVIEW | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | | | | |
| ISSUED FOR BID | F.A. ORECHO DRIVE PLANT | | | | | | | |
| | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 | | | | | | | |
| | 30% REVIEW 80% REVIEW ISSUED FOR NJDEP PERMIT 100% REVIEW | | | | | | | |

Jacobs

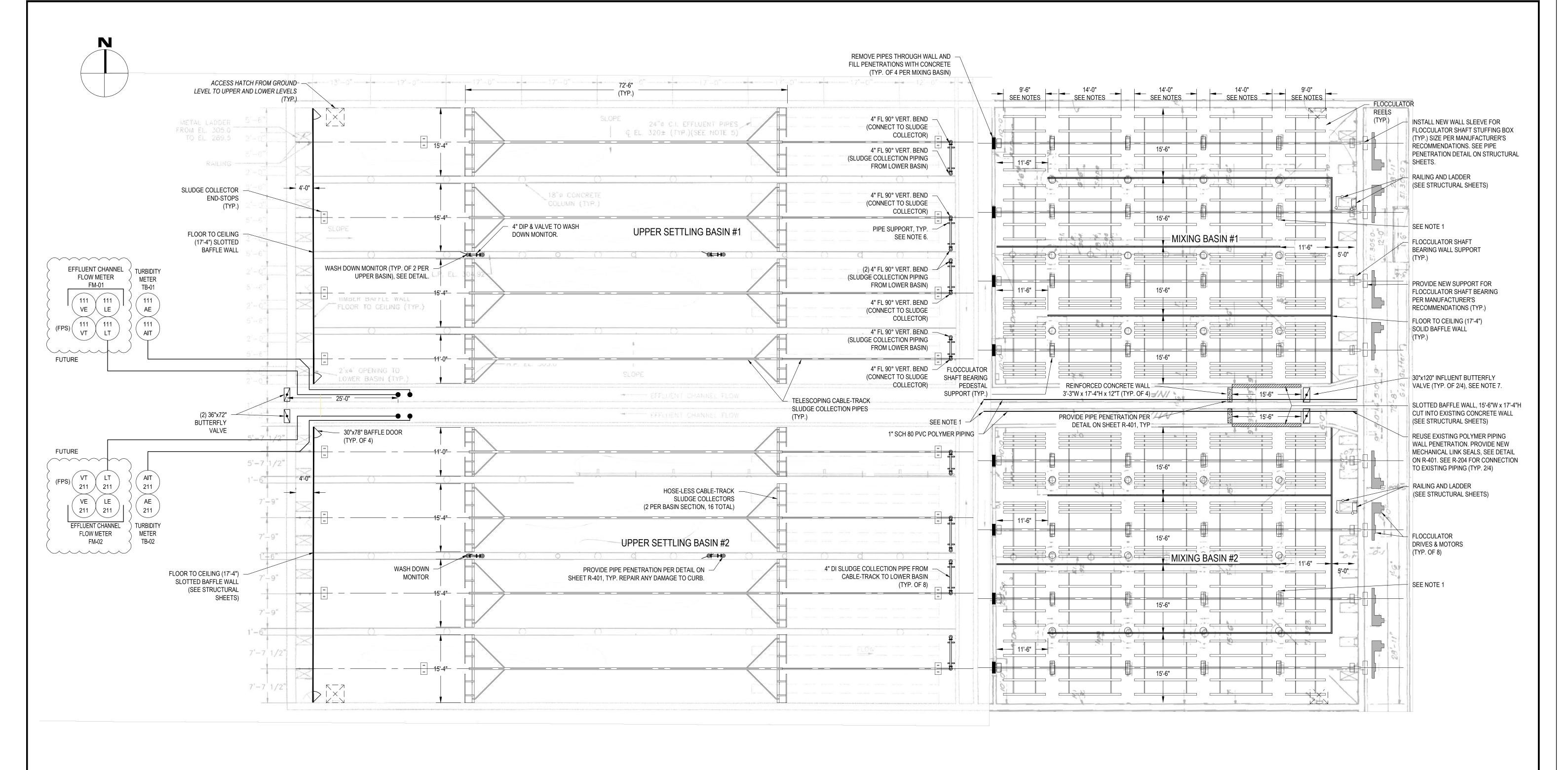
JOSEPH N. BONGIOVANNI, PE
NJPE LICENSE NO. 24GE04377400

PROJECT ENG'R JJW
APPROVED JNB

DATE 09/24/21
PROJECT E6X94500

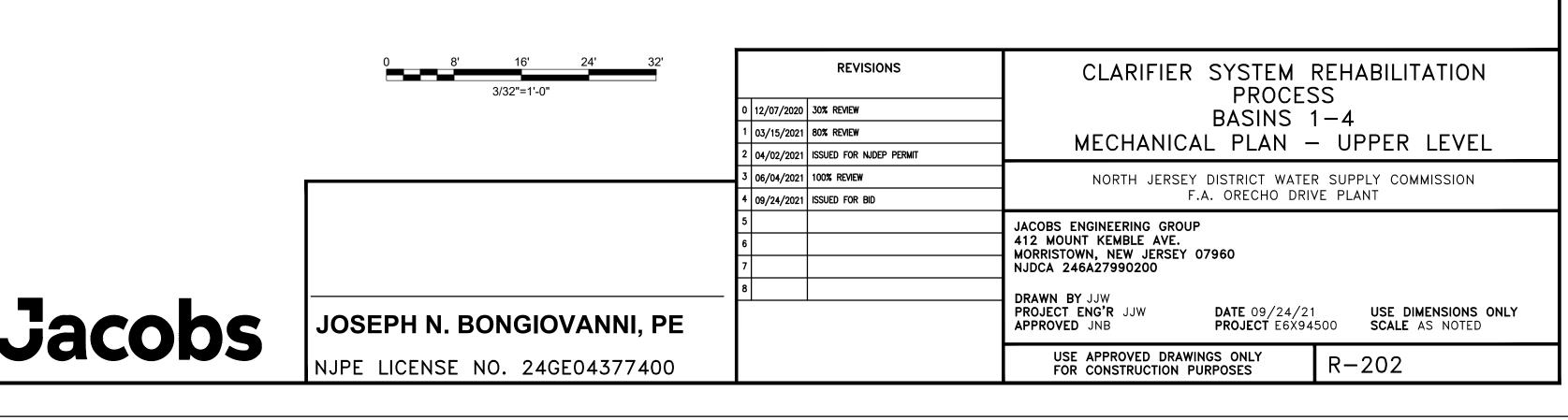
DATE 09/24/21
SCALE AS NOTED

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES R-201

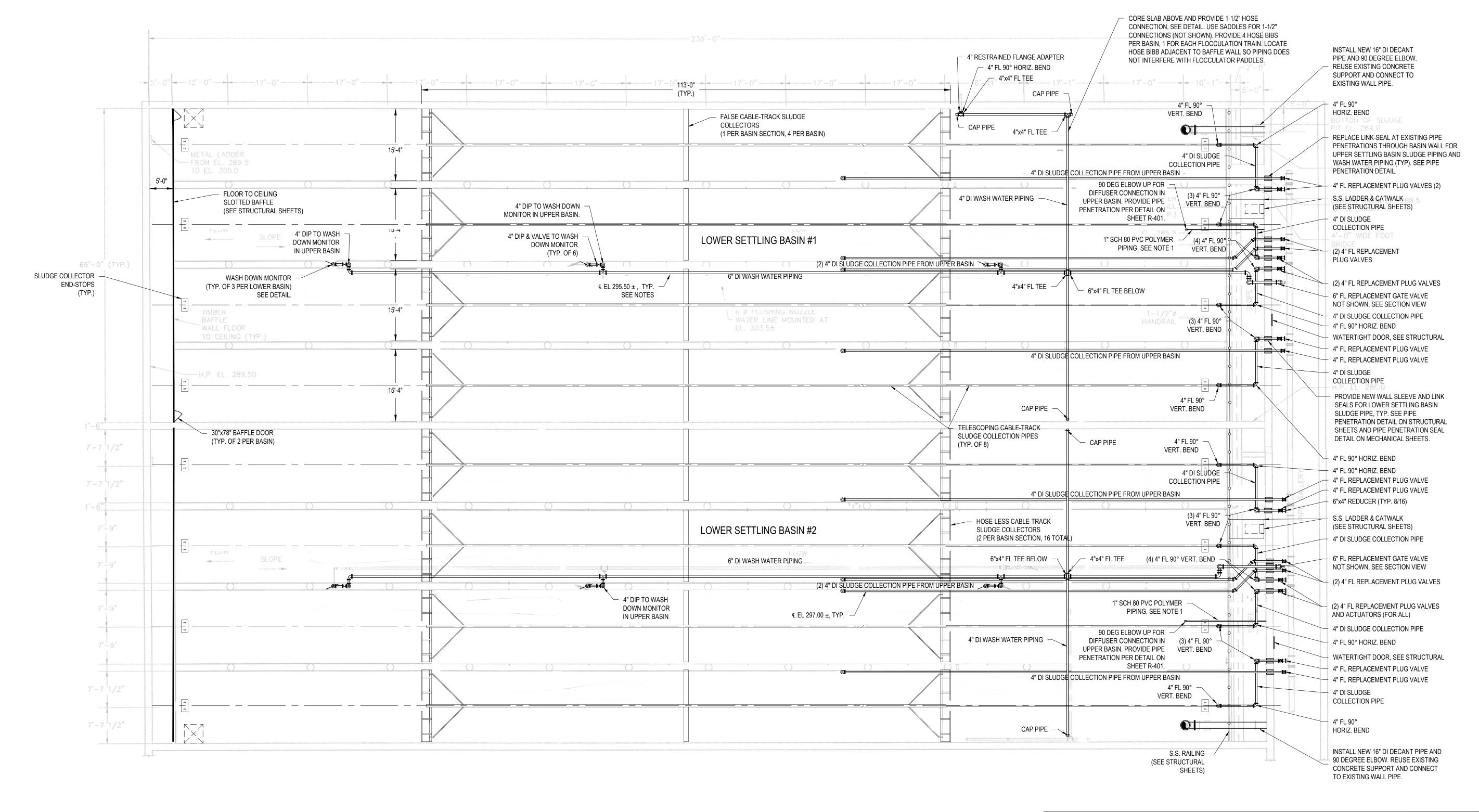


NOTE

- 1. POLYMER DIFFUSER, SEE DETAIL ON SHEET R-401. SEE DRAWING R-204 FOR CONNECTION TO EXISTING POLYMER PIPING.
- 2. ALL DIMENSIONS, EXISTING EQUIPMENT, CONCRETE EQUIPMENT PADS, SUPPORTS, ETC. SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 3. COORDINATE WITH EQUIPMENT MANUFACTURERS TO PROVIDE EQUIPMENT THAT WILL FIT IN EXISTING SPACE.
- 4. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.
- 5. MAXIMUM ALLOWABLE FLOCCULATOR PADDLE DIMENSIONS SHOWN. CONTRACTOR SHALL FIELD VERIFY CLEARANCES. SEE NOTE 2 ABOVE. COORDINATE PADDLE SIZING WITH MANUFACTURER. SEE SPECIFICATION.
- 6. PROVIDE AT LEAST 2 PIPE SUPPORTS ON EACH SLUDGE PIPE. SEE WALL MOUNTED PIPE SUPPORT DETAIL. SUPPORTS SHALL BE DESIGNED PER SECTION 40 05 15. CONTRACTOR SHALL COORDINATE WITH SLUDGE COLLECTION SYSTEM MANUFACTURER TO ENSURE SUPPORTS DO NOT CONFLICT WITH COLLECTION SYSTEM OPERATION.
- 7. INSTALL NEW WALL THIMBLES PER VALVE MANUFACTURER'S INSTRUCTIONS. SEE WALL THIMBLE DETAIL.
- 8. ACCESS TO THE MIXING / SETTLING BASINS AND INSTALLATION OF EQUIPMENT MUST BE MADE THROUGH EXISTING 3'-0" x 3'-0" ACCESS HATCHES OR WATERTIGHT DOOR INSTALLED IN PIPE GALLERY UNDER THIS CONTRACT. CONTRACTOR MUST FIELD VERIFY ACTUAL INTERIOR HATCH DIMENSIONS.

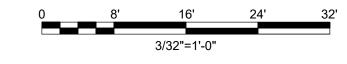






NOTES:

- SEE DRAWING R-204 FOR CONNECTION TO EXISTING POLYMER PIPING.
- 2. ALL DIMENSIONS, EXISTING EQUIPMENT, CONCRETE EQUIPMENT PADS, SUPPORTS, ETC. SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 3. COORDINATE WITH EQUIPMENT MANUFACTURERS TO PROVIDE EQUIPMENT THAT WILL FIT IN EXISTING SPACE.
- 4. ONLY MIXING AND SETTLING BASINS 1 AND 2 ARE SHOWN. WORK TO BE CONDUCTED ON BASINS 3 AND 4 IS SIMILAR.
- 5. ACCESS TO THE MIXING / SETTLING BASINS AND INSTALLATION OF EQUIPMENT MUST BE MADE THROUGH EXISTING 3'-0" x 3'-0" ACCESS HATCHES OR WATERTIGHT DOORS INSTALLED IN PIPE GALLERY UNDER THIS CONTRACT. CONTRACTOR MUST FIELD VERIFY ACTUAL INTERIOR HATCH DIMENSIONS.
- 6. SUPPORT 6" WASH WATER PIPING OFF CONCRETE COLUMNS APPROXIMATELY 10' ABOVE BASIN FLOOR. PROVIDE SUPPORT CALCULATIONS AND SUBMITTALS PER SECTION 40 04 15. PROVIDE AT LEAST 1 HANGER SUPPORT BETWEEN COLUMNS.



JOSEPH N. BONGIOVANNI, PE

NJPE LICENSE NO. 24GE04377400

| 3/32"=1'-0" | | | | |
|-------------|-----|------------|-------------------------|---|
| | 0 1 | 12/07/2020 | 30% REVIEW | |
| | 1 (| 03/15/2021 | 80% REVIEW | MECHANICAL |
| | 2 | 04/02/2021 | ISSUED FOR NJDEP PERMIT | MECHANICAL |
| | 3 (| 06/04/2021 | 100% REVIEW | NORTH JERSEY D |
| | 4 (| 09/24/2021 | ISSUED FOR BID | F.A. |
| | 5 | | | JACOBS ENGINEERING GROUP |
| | 6 | | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 079 |
| | 7 | | | NJDCA 246A27990200 |

REVISIONS

CLARIFIER SYSTEM REHABILITATION PROCESS BASINS 1-4 MECHANICAL PLAN - LOWER LEVEL

NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT

MORRISTOWN, NEW JERSEY 07960
NJDCA 246A27990200

DRAWN BY JJW
PROJECT ENG'R JJW
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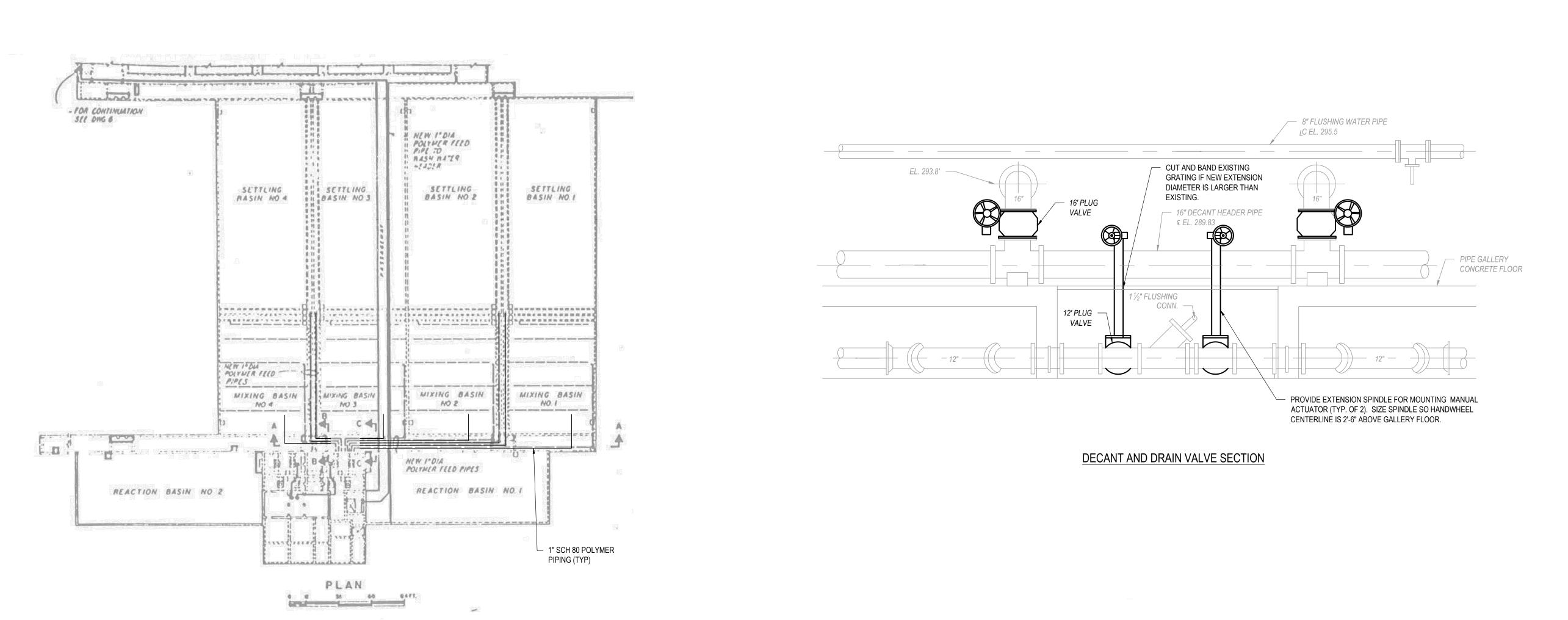
DATE 09/24/21 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED

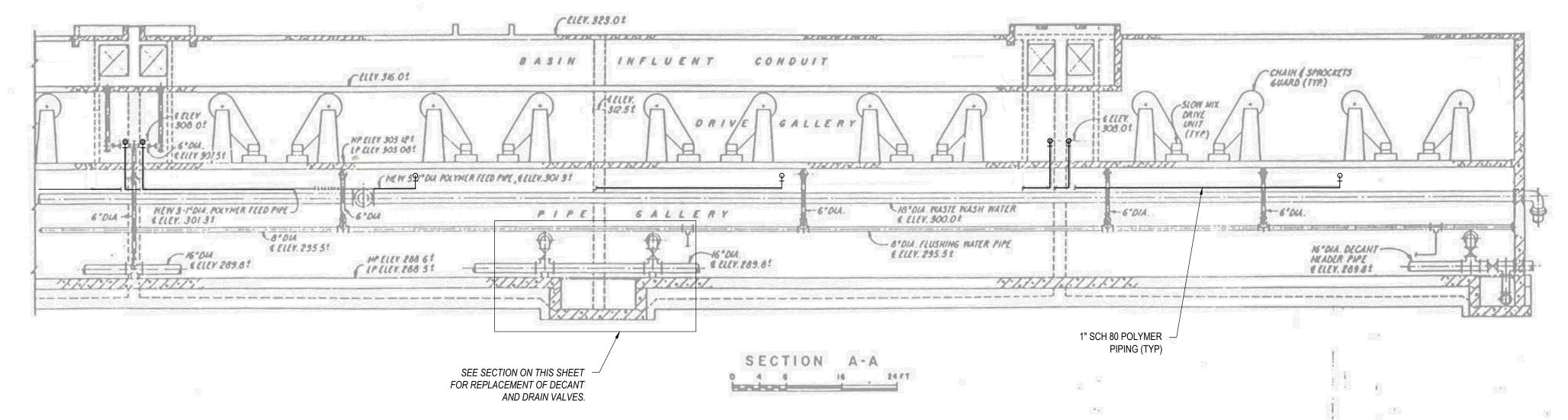
PROJECT ENG'R JJW DATE 09/24/21
APPROVED JNB PROJECT E6X94500

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES R-203

Jacobs

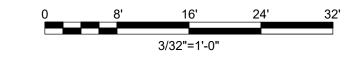






NOTES:

- 1. ALL DIMENSIONS, EXISTING EQUIPMENT, CONCRETE EQUIPMENT PADS, SUPPORTS, ETC. SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 2. ONLY POLYMER PIPING IS SHOWN ON THIS DRAWING. SEE R-201 AND R-202 FOR MORE DETAILS.
- 3. REPLACE DECANT AND DRAIN VALVES FOR ALL 4 BASINS. DRAWINGS ONLY SHOW VALVES FOR BASINS 2 AND 3. BASINS 1 AND 4 ARE SIMILAR.



| REVISIONS | CLARIFIER SYSTEM REHABILITATION PROCESS | | | | | |
|--------------------------------------|---|--|--|--|--|--|
| 0 03/15/2021 80% REVIEW | BASINS 1-4 | | | | | |
| 1 04/02/2021 ISSUED FOR NJDEP PERMIT | POLYMER PIPING AND VALVE REPLACEMENT | | | | | |
| 2 06/04/2021 100% REVIEW | TOLIMEN THING AND VALVE NEI LACEMENT | | | | | |
| 3 09/24/2021 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | | |
| 4 | F.A. ORECHO DRIVE PLANT | | | | | |
| 5 | JACOBS ENGINEERING GROUP | | | | | |
| 6 | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | | | | | |
| 7 | NJDCA 246A27990200 | | | | | |
| | 0 03/15/2021 80% REVIEW 1 04/02/2021 ISSUED FOR NJDEP PERMIT 2 06/04/2021 100% REVIEW | | | | | |

JOSEPH N. BONGIOVANNI, PE

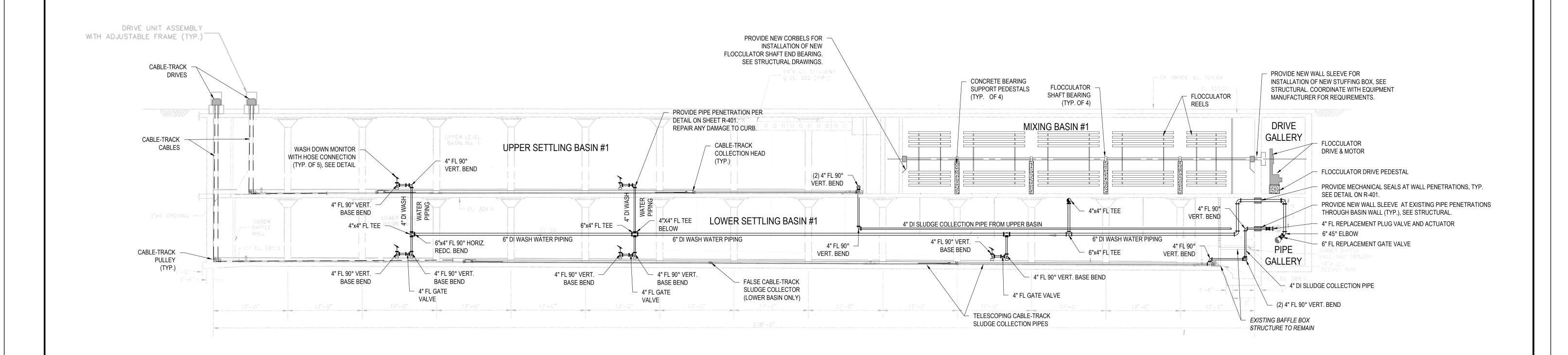
NJPE LICENSE NO. 24GE04377400

DRAWN BY JJW PROJECT ENG'R JJW APPROVED JNB

DATE 09/24/21 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

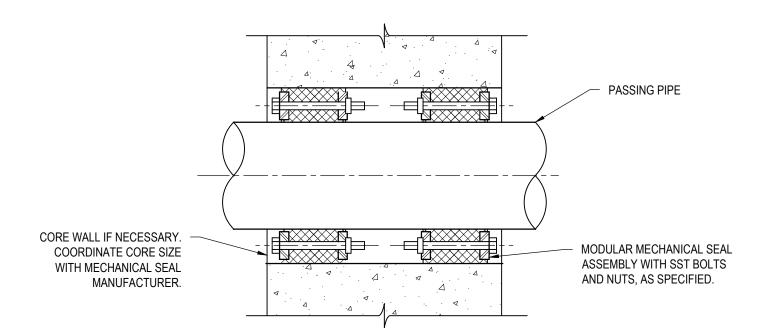
R-204



NOTES:

- 1. POLYMER PIPING NOT SHOWN, SEE PLAN VIEWS AND DRAWING R-204.
- 2. ALL DIMENSIONS, EXISTING EQUIPMENT, CONCRETE EQUIPMENT PADS, SUPPORTS, ETC. SHOWN ARE BASED ON REFERENCE DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
- 3. COORDINATE WITH EQUIPMENT MANUFACTURERS TO PROVIDE EQUIPMENT THAT WILL FIT IN EXISTING SPACE.

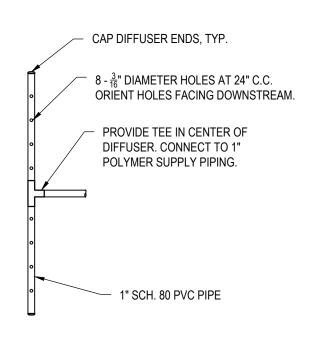
| | 0 8' 16' 24' 32' 3/32"=1'-0" | | REVISIONS | CLARIFIER SYSTEM PROCE | |
|--------|---------------------------------|--------------|---------------------------|---|-------------------|
| | | 0 12/07/2020 | 30% REVIEW | — BASINS | |
| | | <u> </u> | 1 80% REVIEW | MIXING & SETTLING | |
| | | | 1 ISSUED FOR NJDEP PERMIT | - Mixinto di Gerrento | B/(011(0 0201101) |
| | | | 1 100% REVIEW | NORTH JERSEY DISTRICT WATER F.A. ORECHO D | |
| | | 6 09/24/2021 | 1 ISSUED FOR BID | | NIVE LEANT |
| | | 6 | | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. | |
| | | 7 | | MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 | |
| | | 8 | | | |
| Jacobs | JOSEPH N. BONGIOVANNI, PE | | | DRAWN BY JJW PROJECT ENG'R JJW APPROVED JNB PROJECT E6X | |
| VUCUNO | NJPE LICENSE NO. 24GE04377400 | | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES | R-301 |



PIPE PENETRATION SEAL DETAIL N.T.S.

NOTES:

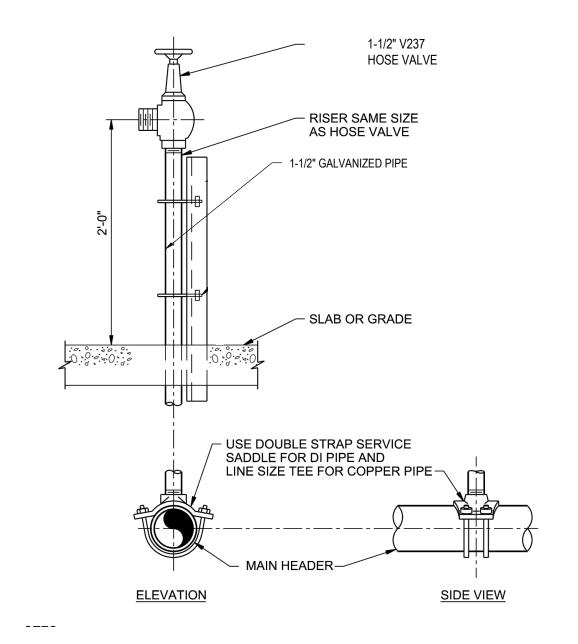
1. PROVIDE SIMILAR FLOOR PENETRATION WHERE CALLED OUT ON DRAWINGS. ONLY 1 MECHANICAL SEAL IS REQUIRED FOR FLOOR PENETRATIONS.



POLYMER DIFFUSER DETAIL N.T.S.

NOTES:

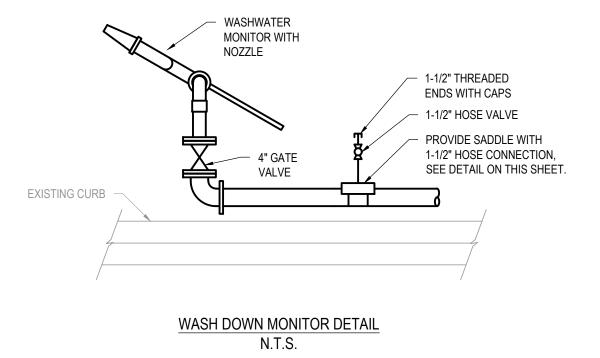
- CONTRACTOR TO SUPPORT DIFFUSER AND ASSOCIATED POLYMER PIPING, SEE SPECIFICATIONS.
- 2. DIFFUSER TO BE MOUNTED VERTICALLY IN EFFLUENT CHANNEL AND MIXING BASINS AS SHOWN ON DRAWINGS.



HOSE VALVE DETAIL N.T.S.

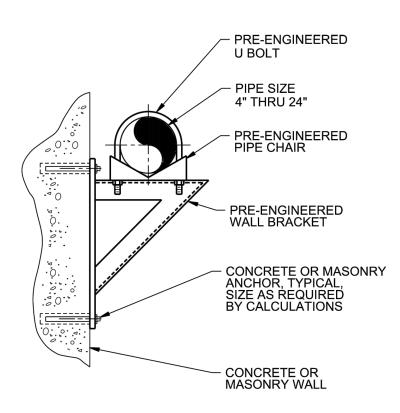
NOTES:

- 1. PROVIDE SUPPORTS PER SECTION 40 05 15
- 2. MAIN HEADER MAY OR MAY NOT BE BELOW CONCRETE SLAB AS SHOWN.



OTES:

- 1. SUPPORT WASH WATER MONITOR AND PIPING PER SECTION 40 05 15. COORDINATE WITH SLUDGE COLLECTOR MANUFACTURER TO ENSURE PIPING AND SUPPORTS DO NOT INTERFERE WITH OPERATION OF EQUIPMENT.
- 2. PROVIDE ONE 1-1/2" HOSE AND NOZZLE PER BASIN.



WALL MOUNTED PIPE SUPPORT DETAIL N.T.S.

NOTES:

1. WALL BRACKET SHALL BE MEDIUM HEAVY DUTY AS REQUIRED BY CALCULATIONS.

SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

ASTM A 36 CARBON STEEL THIMBLE TO BE PROVIDED BY VALVE MANUFACTURER VALVE SEAT ADJUSTING SEGMENTS THIS SIDE VALVE SEAT ADJUSTING SEGMENTS THIS SIDE FLANGE MOUNTING HARDWARE TO BE PROVIDED BY VALVE MANUFACTURER VALVE MANUFACTURER TO SIZE AND PROVIDE ANCHOR BOLTS

WALL THIMBLE DETAIL N.T.S.

NOTES:

- 1. VALVE MANUFACTURER TO PROVIDE CHANNEL MOUNTED THIMBLE AND INSTALLATION DETAILS. DIMENSIONS OR INSTALLATION REQUIREMENTS MAY VARY FROM WHAT IS SHOWN.
- 2. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND COORDINATE WITH VALVE MANUFACTURER FOR INSTALLATION REQUIREMENTS.
- 3. TYPICAL SECTION THROUGH THIMBLE AND VALVE MOUNTING FLANGE. THIMBLE TO BE MOUNTED ON CHANNEL WALLS, FLOOR AND TOP SLAB SIMILAR TO EXISTING, SEE DEMOLITION DRAWING. THIMBLE ANCHOR BOLT AND FLANGE MOUNTING BOLT SPACING TO BE PER VALVE MANUFACTURER'S RECOMMENDATIONS.

| | REVISIONS | CLARIFIER SYSTEM REHABILITATION PROCESS |
|---|------------------------------------|--|
| 0 | 03/15/2021 80% REVIEW | BASINS 1-4 |
| 1 | 04/02/2021 ISSUED FOR NJDEP PERMIT | MECHANICAL DETAILS |
| 2 | 06/04/2021 100% REVIEW | MILCHANICAL DETAILS |
| 3 | 09/24/2021 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION |
| 4 | | F.A. ORECHO DRIVE PLANT |
| 5 | | JACOBS ENGINEERING GROUP |
| 6 | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 |
| 7 | | NJDCA 246A27990200 |
| 8 | | DRAWN BY JJW |
| | | PROJECT ENG'R JJW APPROVED JNB DATE 09/24/21 PROJECT E6X94500 SCALE AS NOTED |
| | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES R-401 |

Jacobs

JOSEPH N. BONGIOVANNI, PE

NJPE LICENSE NO. 24GE04377400

| | | | | | | | | | PI | PING SPEC | FICATI | ONS | | | | | | |
|----------------------|---------------------------------|------------------------------|------------------------|--------|------------------------|-----------------|---------------|--------------------|---|---------------|----------------------|--|-----------------------|---------------|---------------|---|--|--|
| | RAT | RATING | | RATING | | TEST | | ICATION | | F | PIPE | FITTINGS | | | | | | |
| PIPING SERVICE | MAX. OPER. PRESS. PSIG | MAX. OPER. TEMP. °F | TEST PRESS. PSIG | TYPE | | LETTER COLOR | | SCH. OR TYPE | DESCRIPTION | DIAMETER | RATING OR SCH. | DESCRIPTION | GASKETS | BOLTS | BOLTS FLANGES | NOTES | | |
| WATER ABOVEGROUND | 100 | 225 | 150 | Н | BLUE (SEE NOTES) | WHITE | 4" AND LARGER | CLASS 350 | FLANGED END DUCTILE IRON, AWWA C115/C110 | 4" AND LARGER | 350 PSIG | TWO PIECE DUCTILE IRON HOUSING SUITABLE FOR POTABLE WATER, AWWA C115/C110 | NEOPRENE FULL FACE | SS GRADE 8 | | FLANGED CONNECTIONS OF DISSIMILAR METALS SHALL UTILIZE DIELECTRIC FLANGE ISOLATION GASKET/HARDWARE KIT. | | |
| | | | | | | | ½" AND LARGER | SCH. 40 | THREADED GALVANIZED STEEL, ASTM A733, ANSI/ASME B1.20.1, ASTM A53 | ½" AND LARGER | 150 PSIG | TWO PIECE STEEL HOUSING SUITABLE FOR POTABLE WATER, ANSI/ASME B1.20.1, ANSI/ASME B16.3, ASTM A197 | NEOPRENE FULL FACE | SS GRADE 8 | 150 | DUCTILE IRON PIPE SHALL BE PAINTED BLUE PER FACILITY PAINT STANDARD. SUBMIT PAINT SAMPLE FOR COLOR MATCHING. PRESSURE GAUGES SHALL BE PER SECTION 409100. | | |
| POLYMER | 100 | 100 | 150 | Н | | | 1" | SCH. 80 | SOCKET WELD SCH 80 PVC PIPE | 1" | 150 PSIG | SOCKET WELD, SCH. 80 PVC | N/A | N/A | N/A | | | |

ABBREVIATIONS FOR PIPING SPECIFICATIONS ONLY

| BS | ABSOLUTE | CS | CARBON STEEL |
|------------------|---------------------------|----------|-----------------|
| LST | ALLOY STEEL | DI | DUCTILE IRON |
| N P | ANGLE VALVE | DIS | DEIONIZED WATE |
| | ALL PURPOSE JACKET | DV | DIAPHRAGM VALV |
| W | ACID WASTE | ERW | ELECTRIC RESIST |
| D | BANDED | °F | DEGREE FAHREN |
| D E F S | BEVELLED ENDS | FF | FLAT FACE |
| F | BUTTERFLY VALVE | F'GLASS | FIBERGLASS |
| S | BELL AND SPIGOT | FIG. NO. | FIGURE NUMBER |
| V | BALL VALVE | FLG | FLANGE |
| W_ | BUTT WELD | FS | FORGED STEEL |
| AF | COMPRESSED ASBESTOS FIBER | FV | FOOT VALVE |
| l K | CAST IRON | GA | GATE VALVE |
| | CHECK VALVE | GALV. | GALVANIZED |
| L | CLASS | G.E. | GROOVED END |
| LV | STRAIGHTWAY VALVE | GL | GLOBE VALVE |
| PR | COPPER | GR | GRADE |
| R | CHROMIUM SS | | |
| | | | |

| NG SPECIFICATION | JIN |
|--------------------------|-----|
| CARBON STEEL | |
| DUCTILE IRON | |
| DEIONIZED WATER SUPPLY | |
| DIAPHRAGM VALVE | |
| ELECTRIC RESISTANCE WELD |) |
| DEGREE FAHRENHEIT | |
| FLAT FACE | |
| FIBERGLASS | |
| FIGURE NUMBER | |
| FLANGE | |
| FORGED STEEL | |
| FOOT VALVE | |
| GATE VALVE | |

NPTF NPTM OS & \ PE PJ PVC PSI PSIA PSIG RF RS RJF

| JINL | <u> </u> |
|------|---------------------------------|
| | HYDROSTATIC TEST |
| | INTEGRAL SEAT |
| | LUBRICATED PLUG |
| | POUND |
| | MALLEABLE IRON |
| | MECHANICAL JOINT |
| F | NATIONAL PIPE TAPER, FEMALE |
| M | NATIONAL PIPE TAPER, MALE |
| λΥ | OUTSIDE SCREW AND YOKE |
| | PNEUMATIC TEST |
| | PLAIN ENDS |
| | PUSH JOINT |
| | POLYVINYL CHLORIDE |
| | POUNDS PER SQUARE INCH |
| A . | POUNDS PER SQUARE INCH ABSOLUTE |
| 3 | POUNDS PER SQUARE INCH GAUGE |
| | RAISED FACE |

RISING STEM RING JOINT FACING

RAW WATER SEAMLESS CARBON STEEL SCHEDULE RW SCS SCH SCRD SJ SCREWED SOLDER JOINT

SLUDGE SLIP-ON STAINLESS STEEL STEAM TRAP STANDARD STRAINER SCREENED WATER THICK TUNGSTEN INERT GAS

SW THK TIG U.L. UB VIC WN UNDERWRITERS LABORATORY UNION BONNET VICTAULIC WELDING NECK

NOTES FOR PIPING SPECIFICATIONS:

ALL MAKE / MODEL OF MATERIALS IDENTIFIED ARE INTENDED TO ESTABLISH PERFORMANCE CRITERIA FOR SAID MATERIALS. ALL INDICATIONS OF MAKE / MODEL SHOULD BE ASSUMED TO BE FOLLOWED BY "OR EQUAL."

THESE SPECIFICATIONS ARE GENERAL AND CONTAIN ITEMS NOT SHOWN ON THE DWGS. DETAIL SPECIFICATIONS ARE INCLUDED IN THE TECHNICAL SPECIFICATIONS.

ALL VALVES SHALL BE LOCKABLE PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA) STANDARD 1910.147. DETAILED VALVE SPECIFICATIONS ARE INCLUDED IN THE TECHNICAL SPECIFICATIONS.

SCREWED VALVES OR FITTINGS INSTALLED IN A SERVICE NORMALLY USING WELDED FITTINGS MUST BE SEAL WELDED. PARTS WHICH MAY BE DAMAGED BY WELDING (SEALS, PACKING, ETC.) MUST BE REMOVED BEFORE WELDING AND REPLACED AFTER THE WELDED PART IS COOLED.

| VALVE SCHEDULE 2 INCHES AND LARGER | | | | | | | | | | | | |
|------------------------------------|----------------|-------------------|--------------------|--------------------------|------------|----------|--|--|--|--|--|--|
| DESCRIPTION | VALVE TYPE | FLUID | PIPING MATERIAL | SPECIFICATION SECTION | | | | | | | | |
| BALL VALVE | BALL | 2" | SW | WATER | GALVANIZED | 40 27 02 | | | | | | |
| GATE VALVE | GATE | 4", 6" | SW | WATER | DI | 40 27 02 | | | | | | |
| PLUG VALVE | ECCENTRIC PLUG | 4", 12", 16" | SW, SL | WATER, SLUDGE | DI | 40 27 02 | | | | | | |
| BUTTERFLY VALVE | BUTTERFLY | 30"x120", 36"x72" | SW | WATER | DI | 40 27 02 | | | | | | |

| WATER QUALITY / FLOW METERS | | | | | | | | | | | |
|---|---------------------------|------|------------|----------|--|--|--|--|--|--|--|
| EQUIPMENT NO. LOCATION MANUFACTURER MODEL SPECT | | | | | | | | | | | |
| TB-01 | BASIN #1 EFFLUENT CHANNEL | HACH | SOLITAX SC | 40 91 00 | | | | | | | |
| TB-02 | BASIN #2 EFFLUENT CHANNEL | HACH | SOLITAX SC | 40 91 00 | | | | | | | |
| TB-03 | BASIN #3 EFFLUENT CHANNEL | HACH | SOLITAX SC | 40 91 00 | | | | | | | |
| TB-04 | BASIN #4 EFFLUENT CHANNEL | HACH | SOLITAX SC | 40 91 00 | | | | | | | |

CLARIFIER SYSTEM REHABILITATION
PROCESS
BASINS 1-4

SCHEDULES

R-501

| | | | CABLE-TRA | ACK SLUDGE COLLEC | TORS | T | | | |
|---------------|--------------------------|---------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------|-------|------|------|
| EQUIPMENT NO. | LOCATION | CONTROL PANEL | DESIGN BASIS MANUFACTURER / MODEL | APPROXIMATE CARRIER LENGTH | FALSE COLLECTOR AT MIDSPAN | SPECIFICATION SECTION | MOTOR | | |
| | | | | | | | HP | RPM | ELEC |
| CT-101 | LOWER SETTLING BASIN #01 | SCP-01 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-102 | LOWER SETTLING BASIN #01 | SCP-01 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-103 | LOWER SETTLING BASIN #01 | SCP-02 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-104 | LOWER SETTLING BASIN #01 | SCP-02 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-105 | UPPER SETTLING BASIN #01 | SCP-01 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-106 | UPPER SETTLING BASIN #01 | SCP-01 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-107 | UPPER SETTLING BASIN #01 | SCP-02 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-108 | UPPER SETTLING BASIN #01 | SCP-02 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-201 | LOWER SETTLING BASIN #02 | SCP-03 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-202 | LOWER SETTLING BASIN #02 | SCP-03 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-203 | LOWER SETTLING BASIN #02 | SCP-04 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-204 | LOWER SETTLING BASIN #02 | SCP-04 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-205 | UPPER SETTLING BASIN #02 | SCP-03 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-206 | UPPER SETTLING BASIN #02 | SCP-03 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-207 | UPPER SETTLING BASIN #02 | SCP-04 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-208 | UPPER SETTLING BASIN #02 | SCP-04 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-301 | LOWER SETTLING BASIN #03 | SCP-05 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-302 | LOWER SETTLING BASIN #03 | SCP-05 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-303 | LOWER SETTLING BASIN #03 | SCP-06 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-304 | LOWER SETTLING BASIN #03 | SCP-06 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-305 | UPPER SETTLING BASIN #03 | SCP-05 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-306 | UPPER SETTLING BASIN #03 | SCP-05 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-307 | UPPER SETTLING BASIN #03 | SCP-06 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-308 | UPPER SETTLING BASIN #03 | SCP-06 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-401 | LOWER SETTLING BASIN #04 | SCP-07 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-402 | LOWER SETTLING BASIN #04 | SCP-07 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-403 | LOWER SETTLING BASIN #04 | SCP-08 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-404 | LOWER SETTLING BASIN #04 | SCP-08 | MRI / HOSELESS CABLE-VAC | 113' - 0" | YES | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-405 | UPPER SETTLING BASIN #04 | SCP-07 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-406 | UPPER SETTLING BASIN #04 | SCP-07 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-407 | UPPER SETTLING BASIN #04 | SCP-08 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |
| CT-408 | UPPER SETTLING BASIN #04 | SCP-08 | MRI / HOSELESS CABLE-VAC | 72' - 6" | NO | 44 42 24.05 | 0.25 | 1800 | 460 |

| FLOCCULATORS | | | | | | | | | | | | |
|---------------|------------------|--------------------------------------|---------------|---------------------|-----------------------|-----|-------|------|-------|--|--|--|
| EQUIPMENT NO. | LOCATION | DESIGN BASIS MANUFACTURER / MODEL | REEL DIAMETER | NO. OF FLOCCULATORS | SPECIFICATION SECTION | | MOTOR | | | | | |
| | | | | | | HP | VFD | RPM | ELEC. | | | |
| FLC-101 | MIXING BASIN #01 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 7.5 | YES | 1800 | 480 | | | |
| FLC-102 | MIXING BASIN #01 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-103 | MIXING BASIN #01 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-104 | MIXING BASIN #01 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 3 | YES | 1800 | 480 | | | |
| FLC-201 | MIXING BASIN #02 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 7.5 | YES | 1800 | 480 | | | |
| FLC-202 | MIXING BASIN #02 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-203 | MIXING BASIN #02 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-204 | MIXING BASIN #02 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 3 | YES | 1800 | 480 | | | |
| FLC-301 | MIXING BASIN #03 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 7.5 | YES | 1800 | 480 | | | |
| FLC-302 | MIXING BASIN #03 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-303 | MIXING BASIN #03 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-304 | MIXING BASIN #03 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 3 | YES | 1800 | 480 | | | |
| FLC-401 | MIXING BASIN #04 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 7.5 | YES | 1800 | 480 | | | |
| FLC-402 | MIXING BASIN #04 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-403 | MIXING BASIN #04 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 | 5 | YES | 1800 | 480 | | | |
| FLC-404 | MIXING BASIN #04 | JMS / Mega-FLOC | 12'-6" | 5 | 44 44 36 - | -3 | YES | 1800 | 480 | | | |

06/04/2021 100% REVIEW NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT 4 09/24/2021 ISSUED FOR BID JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY JJW PROJECT ENG'R JJW APPROVED JNB DATE 09/24/21 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

0 12/07/2020 30% REVIEW 1 03/15/2021 80% REVIEW

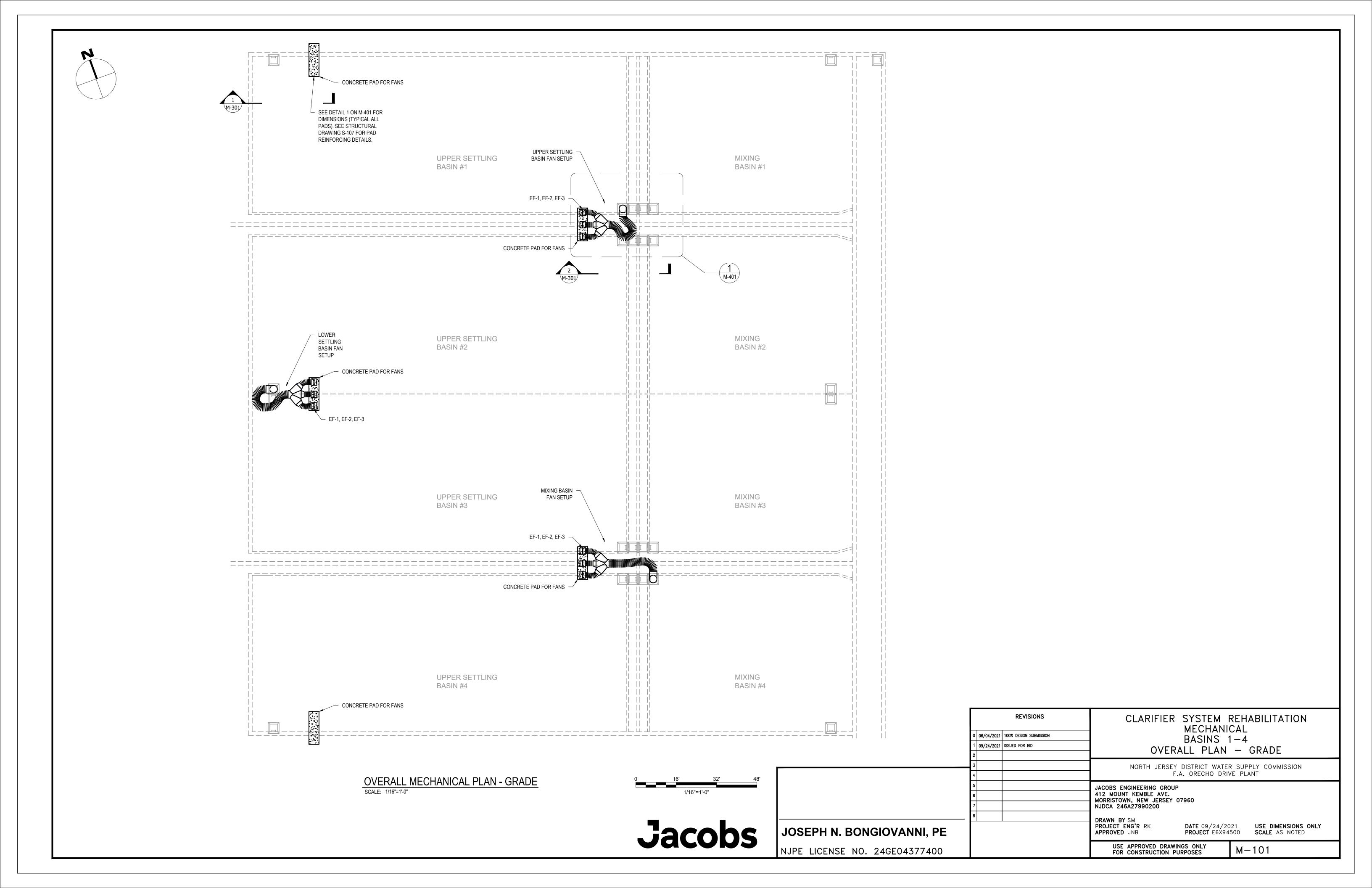
2 04/02/2021 ISSUED FOR NJDEP PERMIT

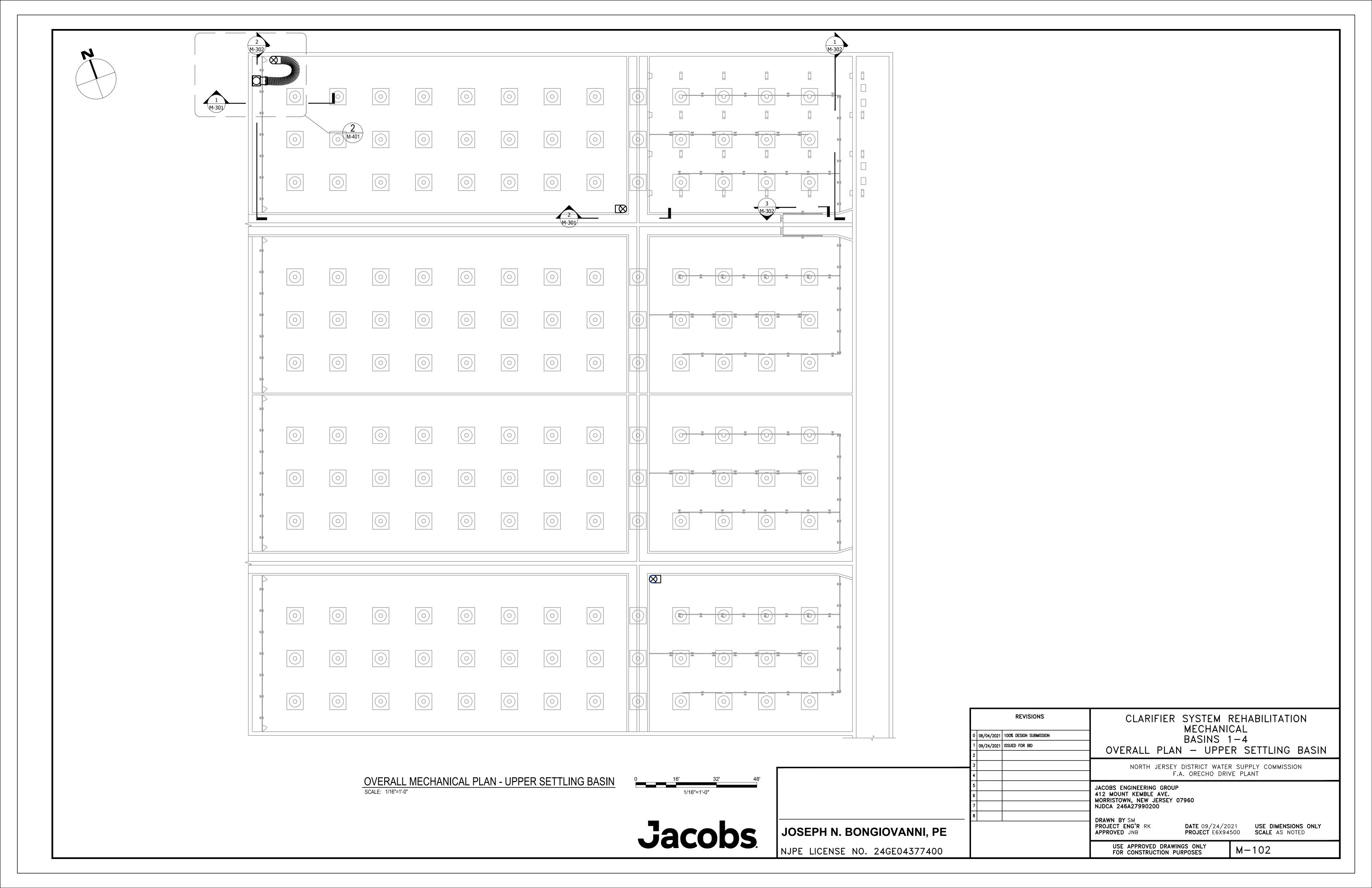
REVISIONS

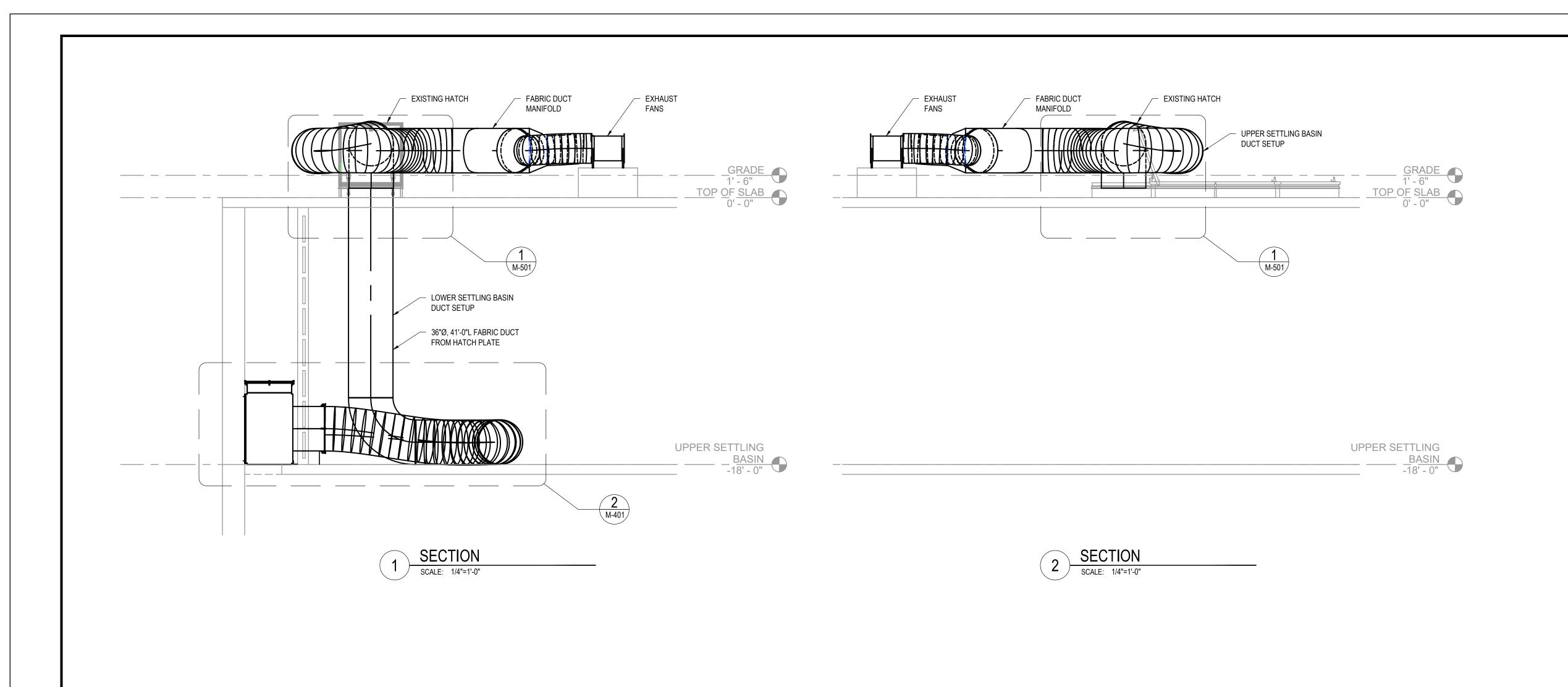
Jacobs

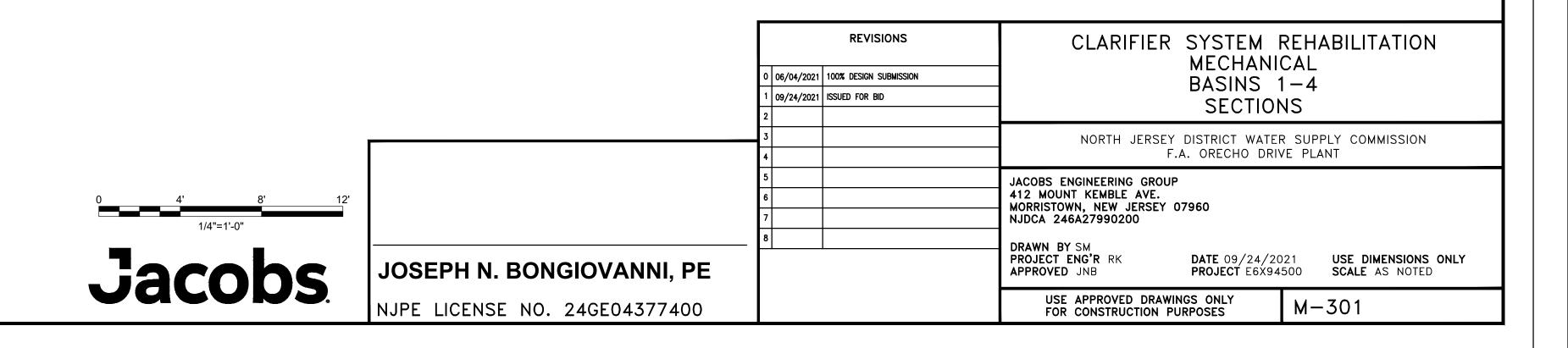
JOSEPH N. BONGIOVANNI, PE

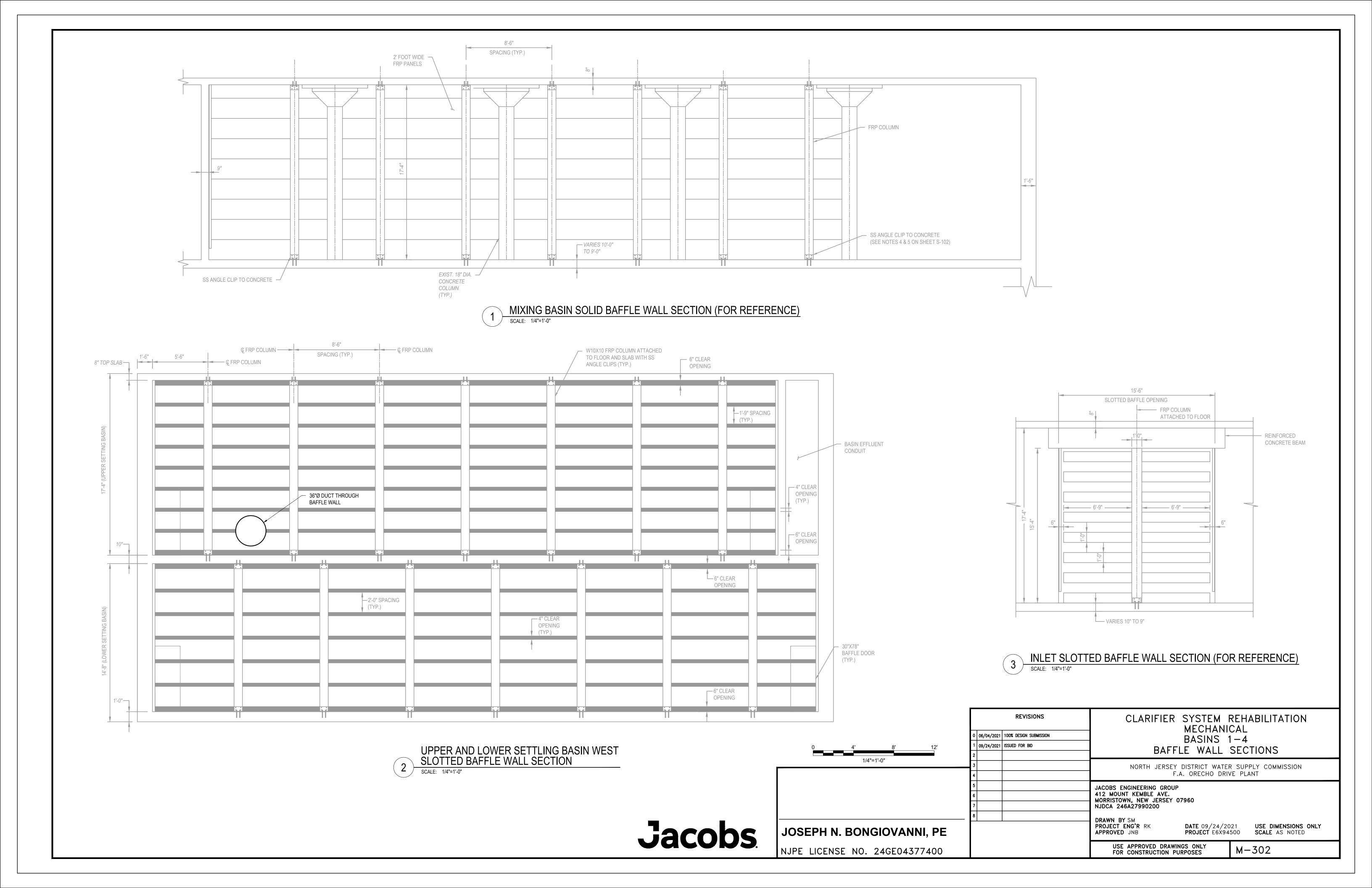
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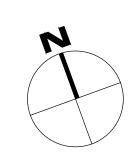


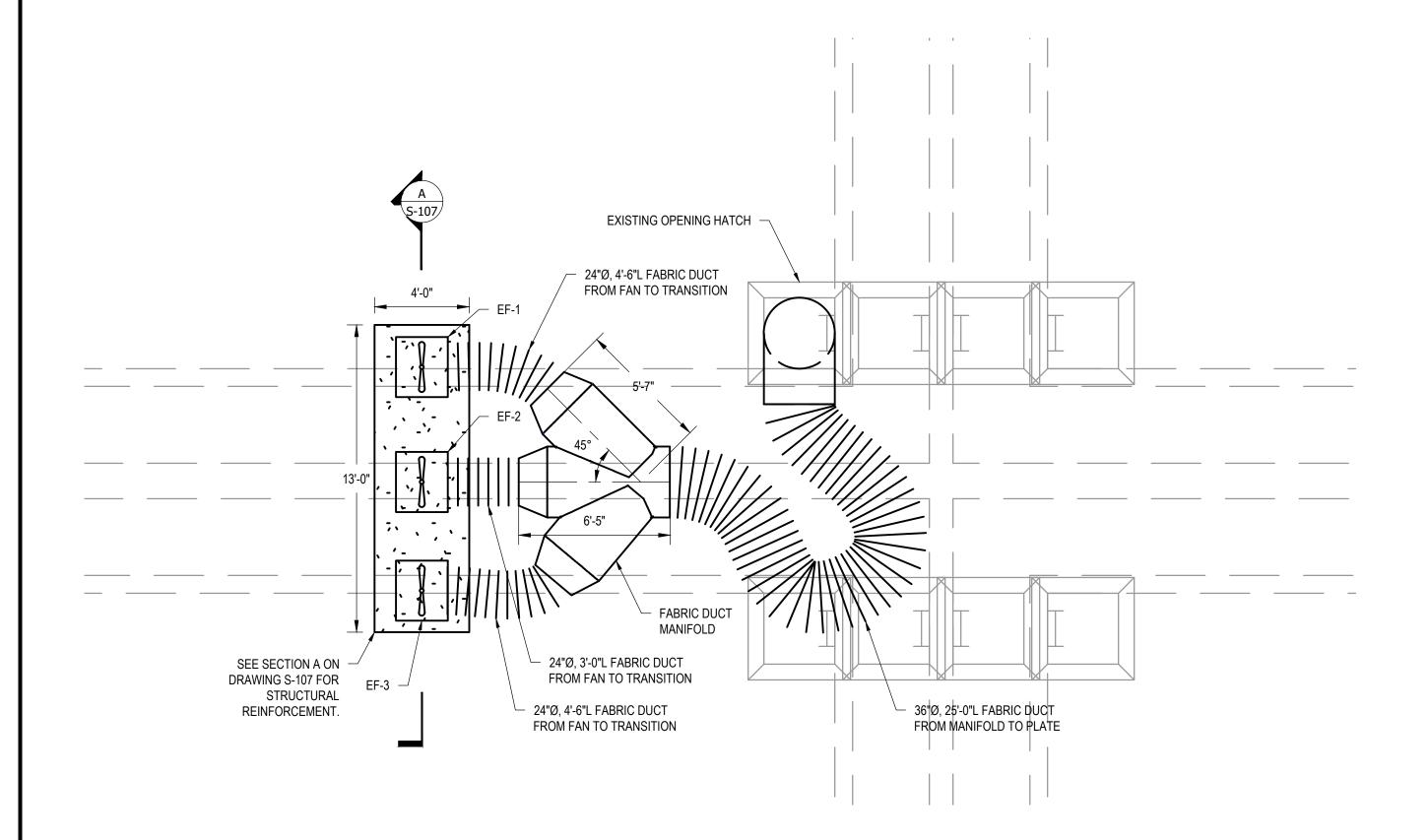




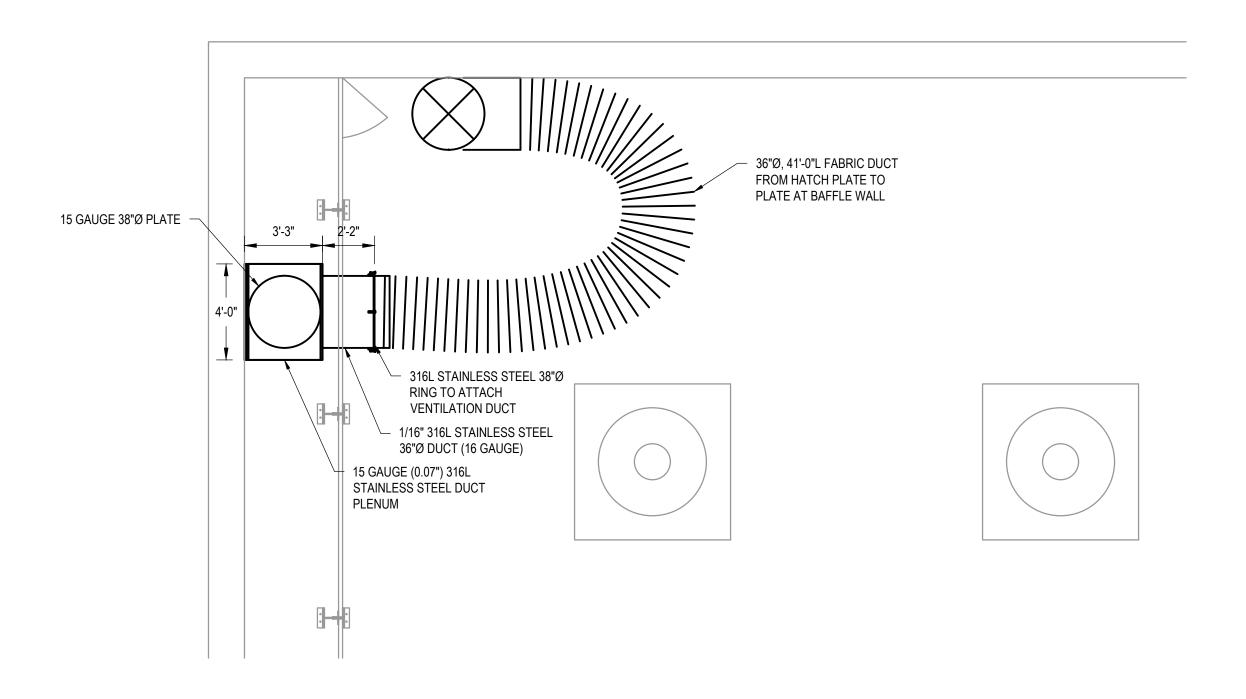




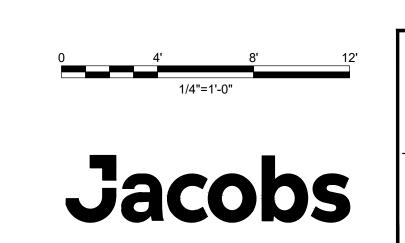




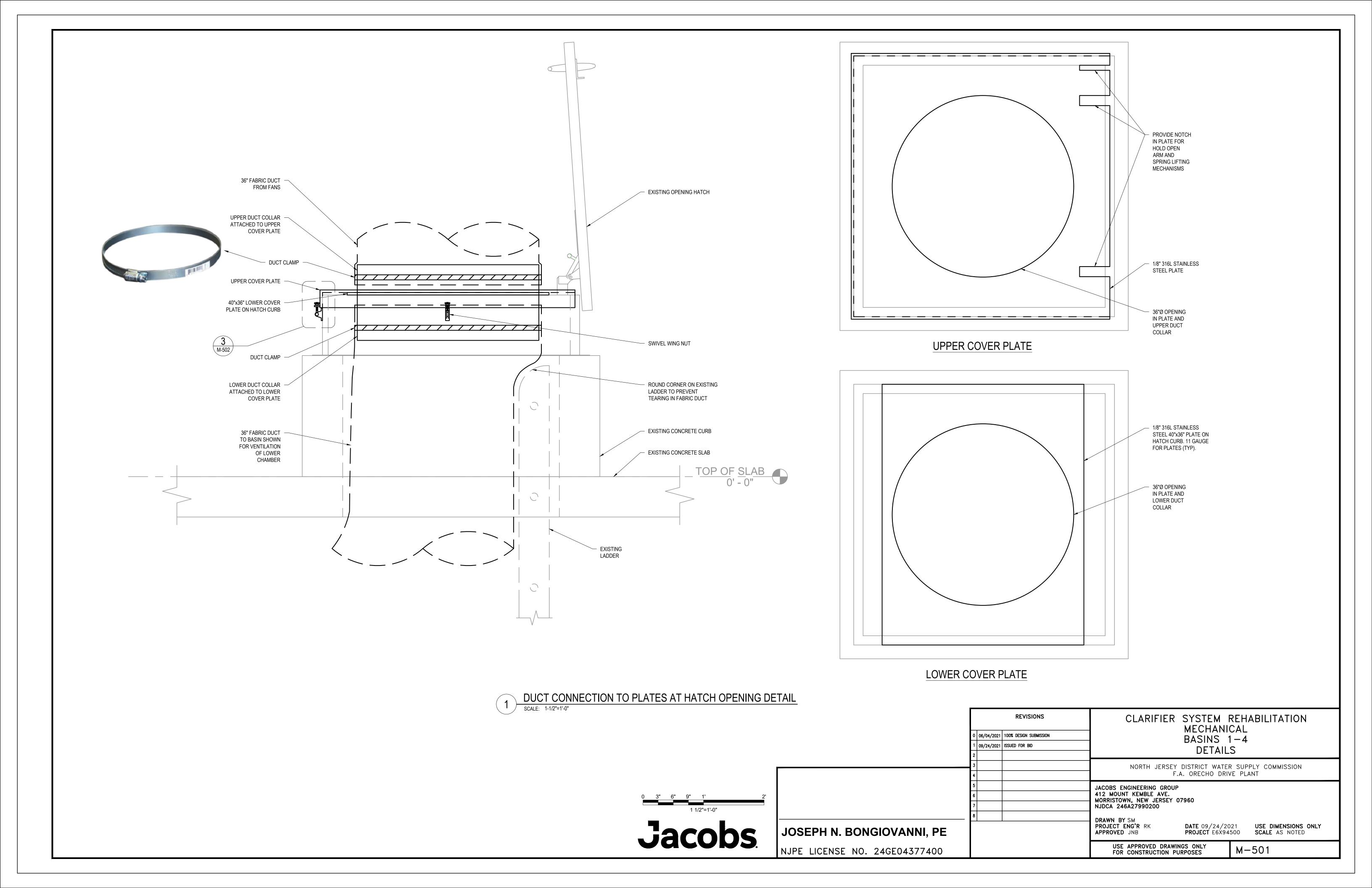
ENLARGED MECHANICAL PLAN - GRADE

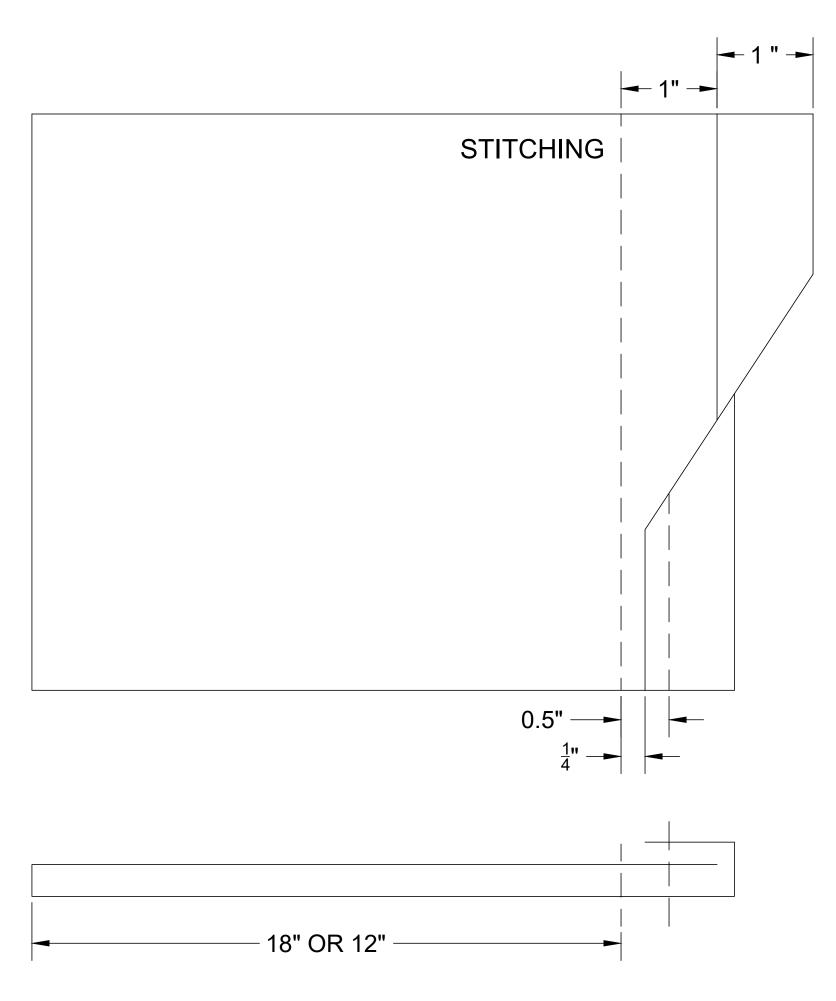


ENLARGED MECHANICAL PLAN - UPPER SETTLING BASIN



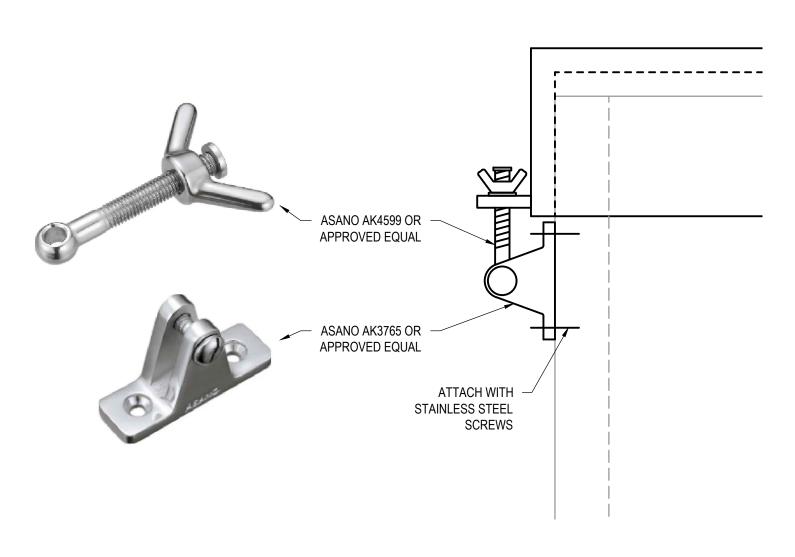
| | | REVISIONS | CLARIFIER SYSTEM REHABILITATION MECHANICAL | | | | |
|-------------------------------|------------|--------------------------------------|---|--|--|--|--|
| | 0 06/04/20 | 21 100% DESIGN SUBMISSION | BASINS 1-4 | | | | |
| | 1 09/24/20 | 4/2021 ISSUED FOR BID ENLARGED PLANS | | | | | |
| | 2 | | ENEAROED LEANS | | | | |
| | 3 | | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | |
| | 4 | | F.A. ORECHO DRIVE PLANT | | | | |
| | 5 | | JACOBS ENGINEERING GROUP | | | | |
| | 6 | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | | | | |
| | 7 | | NJDCA 246A27990200 | | | | |
| | 8 | | DRAWN BY SM | | | | |
| JOSEPH N. BONGIOVANNI, PE | | | PROJECT ENG'R RK APPROVED JNB DATE 09/24/2021 PROJECT E6X94500 SCALE AS NOTED | | | | |
| NJPE LICENSE NO. 24GE04377400 | | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES M-401 | | | | |



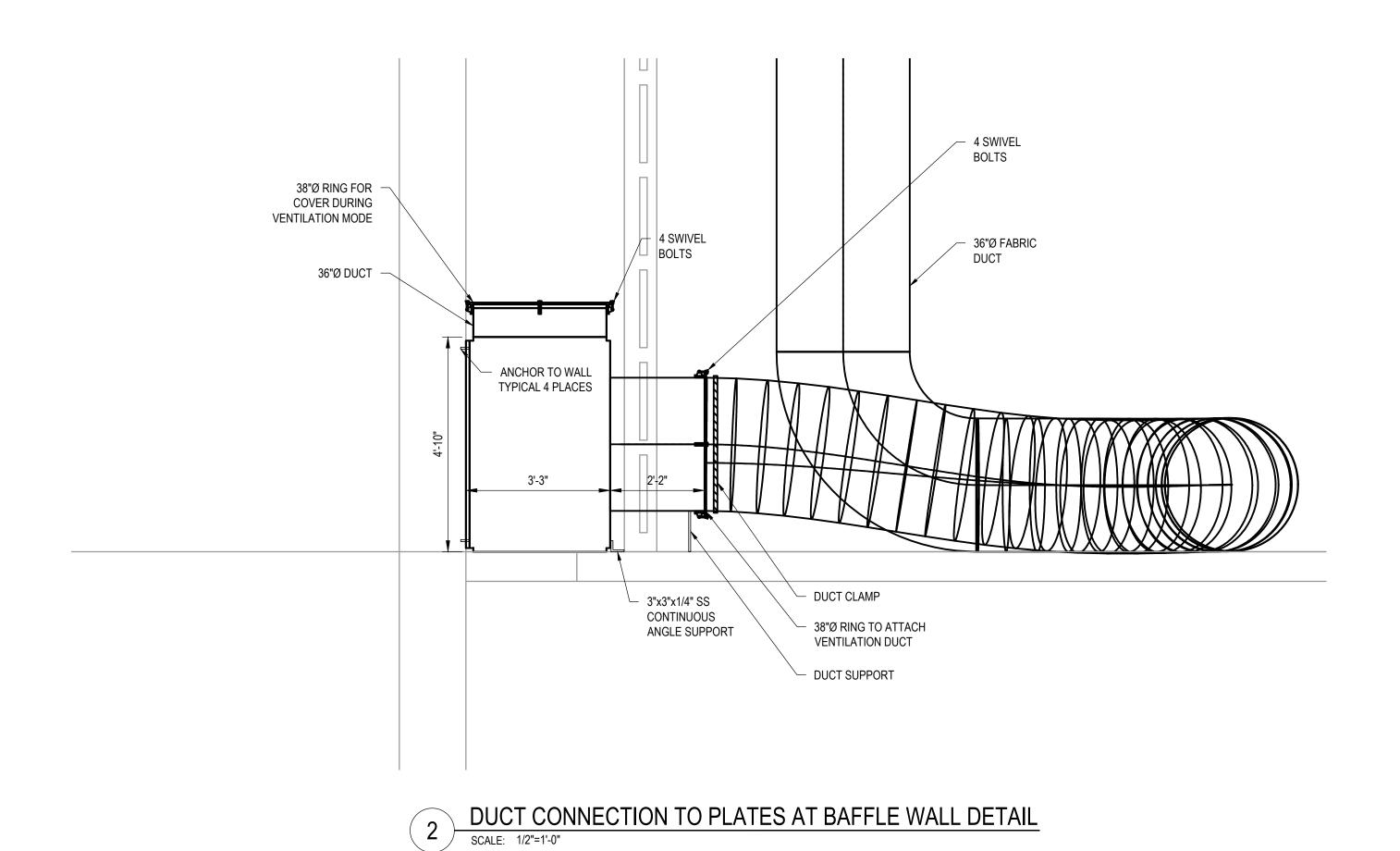


1. ALL SEAMS ARE DOUBLE STITCHED.





3 SWIVEL BOLT DETAIL
SCALE: 6"=1'-0"



FABRIC DUCTWORK NOTES:

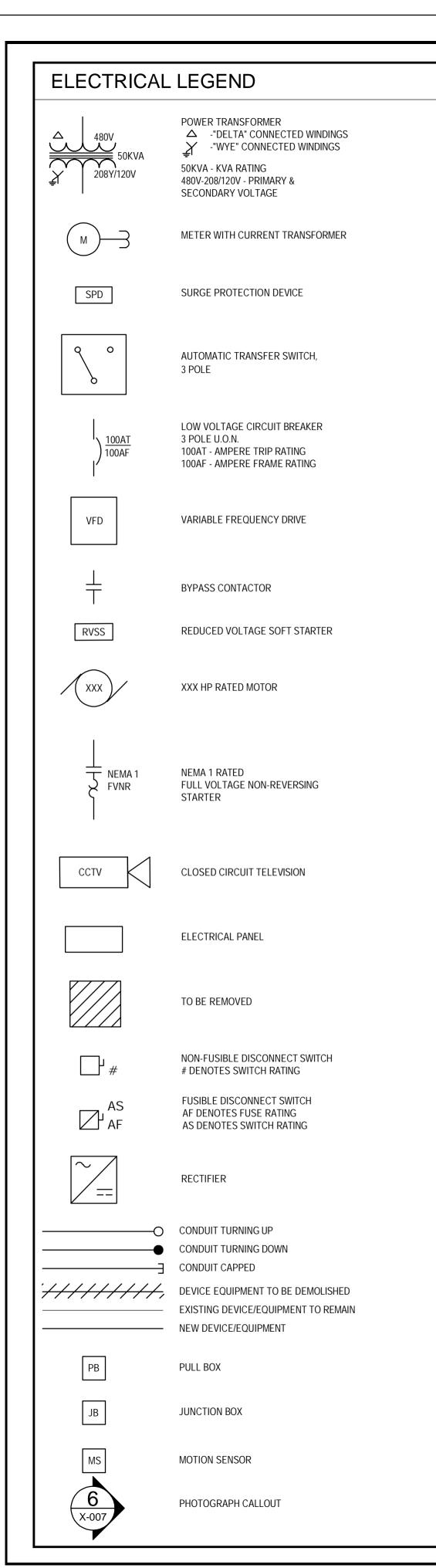
- 1. PROVIDE ENNIS 1974 417 OR EQUAL 18 OZ/SY HEAVY-DUTY WATERPROOF FABRIC
- DUCT WITH UV PROTECTIVE COATING (TYPICAL ALL DUCTWORK).
- 2. PROVIDE 650 SF OF FABRIC FOR DUCTWORK.

| | FAN SCHEDULE | | | | | | | | | | | | | | | | |
|------|--|-------|---------|------|-------|--------|--------|----|------------|-------------|----|----|-------|-----|--------------|---------------|---------------|
| | PERFORMANCE DATA CONSTRUCTION DATA MOTOR DATA BASIS OF DESIGN (OR EQUAL) | | | | | | | | | | | | | | | | |
| TAG | LOCATION | CFM | ESP | FAN | TY | /PE | DRIVE | HP | MAX RPM | > | PH | HZ | WATTS | FLA | MANUFACTURER | MODEL | REMARKS |
| | CONCRETE | | (IN WG) | RPM | | | | | | | | | | | | | |
| EF-1 | PAD AT GRADE | 8,680 | 1.00 | 1750 | AXIAL | INLINE | DIRECT | 3 | 1725 | 460 | 3 | 60 | - | - | CANARM HVAC | DDA24T30300BM | SEE NOTES 1-6 |
| EF-2 | CONCRETE PAD AT GRADE | 8,680 | 1.00 | 1750 | AXIAL | INLINE | DIRECT | 3 | 1725 | 460 | 3 | 60 | - | - | CANARM HVAC | DDA24T30300BM | SEE NOTES 1-6 |
| EF-3 | CONCRETE PAD AT GRADE | 8,680 | 1.00 | 1750 | AXIAL | INLINE | DIRECT | 3 | 1725 | 460 | 3 | 60 | - | - | CANARM HVAC | DDA24T30300BM | SEE NOTES 1-6 |

1. TOTAL OF 6 FANS.

- 2. PROVIDE MOTOR STARTER WITH EACH FAN.
- 3. FANS ARE PLUG IN SEE ELECTRICAL FOR PLUG/OUTLET REQUIREMENTS. 4. PROVIDE WITH CORROSIVE RESISTANT PAINTED SURFACE FOR EXTERIOR USE.
- 5. ALL HARDWARE SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.6. PROVIDE FANS WITH MANUFACTURER INSTALLED INLET GUARDS AND SUPPORT
- LEGS ON VIBRATION ISOLATORS.

| | | REVISIONS | CLARIFIER SYSTEM REHABILITATION |
|--------|-------------------------------|---|---|
| | | 0 06/04/2021 100% DESIGN SUBMISSION 1 09/24/2021 ISSUED FOR BID | MECHANICAL BASINS 1-4 DETAILS AND SCHEDULES |
| | | 3 4 | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT |
| | | 5 6 7 | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 |
| Jacobs | JOSEPH N. BONGIOVANNI, PE | | DRAWN BY SM PROJECT ENG'R RK APPROVED JNB DATE 09/24/2021 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED |
| | NJPE LICENSE NO. 24GE04377400 | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES M-502 |



ABBREVIATIONS ALTERNATING CURRENT AMPERE FRAME ABOVE FINISHED FLOOR AMPERE INTERRUPTING CAPACITY **AUTHORITY HAVING JURISDICTION** AMPERE TRIP AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE **BELOW FINISHED FLOOR** BREAKER BLDG BUILDING **CONDUIT** CABLE CIRCUIT BREAKER CIRCUIT CKT CONTROL RELAY CR COPPER DIRECT CURRENT DISCONNECT SWITCH DOWN **ELECTRICAL EMPTY EMERGENCY** EXISTING TO BE RELOCATED (BY CONTRACTOR) **EXISTING** FURNISHED BY OTHERS **FDR** FEEDER FIBER OPTIC **FLOOR FUSE** GENERAL CONTRACTOR **GFCI** GROUND FAULT CIRCUIT INTERRUPTER G, GND GROUND GALVANIZED RIGID STEEL CONDUIT GRC HORSE POWER JUNCTION BOX JCP&L JERSEY CENTRAL POWER AND LIGHT KVA KILOVOLT AMPERES KVM KEYBOARD VIDEO AND MOUSE KW KILOWATT LAN LOCAL AREA NETWORK LED LIGHT EMITTING DIODE LFMC LIQUID-TIGHT FLEXIBLE METAL CONDUIT MTS MANUAL TRANSFER SWITCH MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MLO MAIN LUG ONLY MSB MAIN SWITCHBOARD MT, MTD MOUNT, MOUNTED NEW **NEUTRAL** NOT APPLICABLE NEC NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NIC NOT IN CONTRACT NJDWSC NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION NTS NOT TO SCALE OCP OVER CURRENT PROTECTION PCF POUND PER CUBIC FOOT

POWER DISTRIBUTION UNIT

POLYVINYL CHLORIDE CONDUIT

RIGID GALVANIZED STEEL CONDUIT

UNDERWRITERS LABORATORIES, INC.

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE

SUPERVISORY CONTROL AND DATA ACQUISITION

RELOCATED (BY CONTRACTOR)

PANEL

OHANTITY

REMOVE

ROOM

SPARE

SWITCH

TYPICAL

ROOF TOP UNIT

SQUARE FEET

VOLT AMPERE

WEATHERPROOF

TRANSFORMER

PVC

QTY

SCADA

UON

XMFR

GENERAL NOTES

SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES SHOWN ON THIS DRAWING APPLY TO ALL ELECTRICAL DRAWINGS UNDER THIS CONTRACT. THE USE OF "PROVIDE" IN THE DRAWINGS DENOTE TO FURNISH AND INSTALL FOR A COMPLETE AND FUNCTIONAL SYSTEM. REFER TO INDIVIDUAL CONTRACT DRAWINGS FOR ADDITIONAL NOTES.

COORDINATE WORK SHOWN ON ELECTRICAL DRAWINGS WITH WORK INDICATED ON OTHER CONTRACT DRAWINGS.

CARRY OUT ALL WORK WITH NO INTERFERENCE TO FACILITY OPERATIONS. ANY INTERRUPTIONS TO FACILITY OPERATIONS SHALL BE AUTHORIZED BY NJDWSC.

WORK SHALL COMPLY WITH ALL GOVERNING CODES, STANDARDS, AND ADVISORIES INCLUDING ALL UPDATES AND AMENDMENTS.

ALL NEW MATERIALS AND EQUIPMENT SHALL CONFORM TO UL STANDARDS WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL OR EQUIPMENT IN QUESTION.

ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE FACTORY TESTED. SUBMIT TEST RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. AFTER INSTALLATION, FIELD TEST IN ACCORDANCE WITH STANDARDS, CONTRACT SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS, TO VERIFY PROPER OPERATION TO THE SATISFACTION OF THE ENGINEER.

RESTORE TO ORIGINAL CONDITION ALL EXISTING SYSTEMS AND AREAS THAT ARE DAMAGED BY WORK UNDER THIS CONTRACT AS THE RESULT OF THE CONTRACTOR'S OPERATION TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO NJDWSC.

CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE FULL EXTENT OF EXISTING CONDITIONS, BUT RATHER TO SHOW THE GENERAL ARRANGEMENT AND LOCATION OF THE SYSTEMS. PERFORM FIELD SURVEY NECESSARY TO DETERMINE THE ROUTING AND LOCATION OF RACEWAYS AND EQUIPMENT. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DRAWINGS, SPECIFICATIONS; OF ANY CONDITION THAT WOULD PRECLUDE PERFORMANCE OF THE WORK AS SHOWN. NO CHANGE IN THE CONTRACT DRAWINGS. DETAILS OR DIMENSIONS IS PERMISSIBLE WITHOUT THE APPROVAL OF THE ENGINEER.

PRIOR TO INSTALLATION, SUBMIT TO THE ENGINEER DIMENSIONED INSTALLATION LAYOUT DRAWINGS FOR APPROVAL. ALL WORK SHALL BE COORDINATED WITH OTHER DISCIPLINES.

VERIFY BY FIELD MEASUREMENTS ALL DIMENSIONS, ELEVATIONS AND CONDITIONS THAT MAY BE REQUIRED TO LOCATE, ALIGN, DIMENSION AND DETAIL THE CONSTRUCTION. THE FIELD MEASUREMENTS SHALL BE PERFORMED PRIOR TO THE PREPARATION OF SHOP DRAWINGS AND THE MANUFACTURING, FABRICATION AND INSTALLATION OF ALL ITEMS OF CONSTRUCTION. ALL VARIATIONS FROM THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

THE DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE EXISTING CONDITIONS IN EVERY RESPECT. EXACT LOCATIONS AND RELATIONSHIPS ARE TO BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL FIELD MEASUREMENTS.

PROVIDE MINIMUM 72 HOURS NOTICE TO NJDWSC BEFORE PROCEEDING WITH ANY WORK THAT AFFECTS EXISTING UTILITIES AND SERVICES.

THE PHRASES "REMOVE AND REPLACE" OR "REPLACE" SHALL MEAN REMOVE EXISTING CONSTRUCTION AND REPLACE WITH NEW CONSTRUCTION MATERIALS OR EQUIPMENT AS NOTED ON THE DRAWINGS AND/OR SPECIFIED.

VERIFY THAT FEEDERS/EQUIPMENT TO BE WORKED ON ARE DE-ENERGIZED AND THAT NECESSARY SWITCHES/CIRCUIT BREAKERS HAVE BEEN LOCKED OPEN AND TAGGED-OUT PRIOR TO COMMENCING ANY WORK ON THAT PORTION OF THE SYSTEM. TAKE ALL SAFETY MEASURES INCLUDING DISCHARGING OF CABLE CAPACITANCE AND GROUNDING TO PROTECT AGAINST ANY ELECTRICAL SHOCK

PROVIDE JUNCTION AND PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING AND SPLICING OF WIRE. COORDINATE LOCATIONS WITH OTHER CONTRACT DRAWINGS AND EXISTING CONDITIONS. ALL JUNCTION AND PULI BOXES SHALL BE ACCESSIBLE. FOR SPARE CONDUIT RUNS, PROVIDE PULL BOXES EVERY 100' AND/OR AS INDICATED ON CONTRACT DRAWINGS.

FOR OUTDOOR RACEWAYS INSTALL CONDUIT EXPANSION FITTINGS TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO CHANGES IN TEMPERATURE. EXPANSION FITTINGS SHALL BE APPLETON TYPE EXLK OR APPROVED EQUAL AND INSTALLED ON STRAIGHT RUNS EXCEEDING 100 FT IN LENGTH.

PROVIDE NYLON PULL CORD OF NOT LESS THAN 200 POUND TENSILE STRENGTH, IN EACH EMPTY/SPARE CONDUIT RUN OVER 10 FEET LONG. THE NYLON CORD SHALL WITHSTAND THE STRESS NECESSARY TO PULL A MANDREL THROUGH THE CONDUIT SYSTEM. CAP ALL EMPTY/SPARE CONDUITS.

18. TAG ALL CIRCUITS IN SPLICE BOXES WITH TAGS SPECIFIED IN CONTRACT SPECIFICATIONS.

19. PROVIDE SEPARATE INSULATED GROUND WIRE SIZED IN ACCORDANCE WITH NEC IN ALL CONDUIT RUNS CONTAINING CIRCUITS 120V AND ABOVE.

20. ALL ELECTRICAL SYSTEM EQUIPMENT, RACEWAYS, COMPONENTS, ETC. AND THE MEANS OF THEIR ATTACHMENTS AND SUPPORT SHALL BE DESIGNED AND INSTALLED TO RESIST THE EFFECTS OF EARTHQUAKE MOTION DETERMINED IN ACCORDANCE WITH THE LATEST NEW JERSEY STATE BUILDING CODE FOR SEISMIC

21. GROUND ALL ELECTRICAL EQUIPMENT AND ENCLOSURES VIA ASSOCIATED EQUIPMENT GROUNDING CONDUCTOR.

GENERAL NOTES

- 22. UPDATE ALL EXISTING PANEL DIRECTORIES AND PANEL NAMEPLATES AFFECTED BY THE WORK OF THIS CONTRACT. LABELS SHALL INDICATE ROOM NUMBERS OR AREA. PROVIDE TYPED SCHEDULES FOR PANELBOARDS INCLUDING REVISION DATE
- 23. ALL EQUIPMENT NAMEPLATES SHALL BE FABRICATED AND ATTACHED IN ACCORDANCE WITH THE CONTRACT SPECIFICATION.
- 24. FURNISH AND INSTALL WIRING, CONDUITS AND NECESSARY EQUIPMENT/DEVICES AS REQUIRED TO ENSURE A COMPLETE AND FULLY OPERATIONAL HVAC SYSTEM. WIRING BETWEEN HVAC CONTROL PANELS AND FIELD DEVICES SHALL BE IN RIGID GALVANIZED STEEL CONDUITS. FOR SIZE. TYPE AND QUANTITIES OF WIRES/CABLES REFER TO MECHANICAL CONTRACT DRAWINGS AND HVAC CONTROL MANUFACTURER RECOMMENDATIONS.
- 25. UNLESS OTHERWISE NOTED, ALL ITEMS TO BE SECURED SHALL BE FASTENED TO STEEL BY THREADED BEAM CLAMPS WITH LOCKING NUTS. ALL FASTENING HARDWARE SHALL BE STAINLESS STEEL AND SHALL INCLUDE SHAKE PROOF (EXTERNAL STAR) LOCK WASHERS. ALL BOLTS SHALL HAVE LOCK WASHERS ELASTIC STOP NUTS IN ADDITION TO REGULAR NUTS. SCREWS SHALL BE TAMPERPROOF AND BOLT ENDS SHALL BE PEENED.
- 26. OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO CORING THROUGH WALLS AND FLOOR SLABS.
- 27. ALL CONTROL WIRING SHALL BE INSTALLED IN RGS CONDUITS. CONTROL WIRING SHALL NOT SHARE CONDUITS, PULLBOXES OR JUNCTION BOXES WITH POWER
- 28. COMBINE CIRCUITS IN RACEWAYS WHERE PRACTICAL IN ACCORDANCE WITH NEC ARTICLE 310.15(B)(3). DO NOT COMBINE CIRCUITS OF DIFFERENT VOLTAGES. ALTHOUGH CONDUITS INDICATED ARE DIAGRAMMATICAL IN NATURE, THEY SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. NOT ALL CONDUIT RUNS ARE SHOWN ON DRAWINGS, COORDINATE CONDUIT RUNS WITH THE WORK OF OTHER TRADES AND STRUCTURE. SIMPLIFY INSTALLATION WHEREVER POSSIBLE.
- 29. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY FROM STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
- 30. ALL EXPOSED RGS CONDUIT INSTALLED OUTDOORS SHALL BE PVC COATED. PROVIDE PVC COATED RGS ON CONDUIT UP TO 12" ABOVE FINISHED GRADE.

JOSEPH N. BONGIOVANNI, PE

NJPE LICENSE NO. 24GE04377400

31. SHARING OF NEUTRAL IS NOT PERMITTED

DEMOLITION NOTES

- VERIFY EXISTING CONDITIONS AND COORDINATE DEMOLITION WORK AND REQUIREMENTS WITH ALL PROJECT DOCUMENTS AND TRADES WORKING ON PROJECT.
- NOTIFY THE ENGINEER AND NJDWSC REPRESENTATIVE OF EXISTING CONDITIONS CONFLICTING WITH DEMOLITION WORK.
- LOCATIONS AND QUANTITIES OF DEVICES SHOWN FOR DEMOLITION ARE APPROXIMATE. VERIFY ACTUAL LOCATIONS ON SITE.
- AS PART OF DEMOLITION WORK MODIFY AND/OR REPAIR EXISTING SYSTEMS DISTURBED BY THE DEMOLITION WORK. MAINTAIN CONTINUITY TO OTHER SYSTEMS AND ELECTRICAL COMPONENTS NOT DESIGNATED FOR REMOVAL.
- UNLESS OTHERWISE NOTED "REMOVE" DENOTES TO REMOVE AND DISPOSE ITEMS, EQUIPMENT OR
- MAINTAIN OPERATION OF SYSTEMS OUTSIDE DESIGNATED AREA OF SCOPE. IF A SYSTEM OUTAGE MUST OCCUR IN ORDER TO PROCEED WITH WORK, THE OUTAGE MUST BE APPROVED AND SCHEDULED IN ADVANCE WITH THE NJDWSC. THIS OUTAGE MAY NEED TO OCCUR AT NIGHT AND/OR ON WEEKENDS.
- REFERENCE TO "POINT OF ORIGIN" OR "SOURCE" FOR BRANCH CIRCUITS IN ELECTRICAL DEMOLITION NOTES MEANS THE EXISTING BRANCH CIRCUIT, PANEL BOARD CIRCUIT BREAKER OR THE FIRST BRANCH CIRCUIT OUTLET NOT DESIGNATED/REQUIRED FOR REMOVAL
- REFERENCE TO "BACK TO POINT OF PHASING" FOR BRANCH CIRCUITS IN ELECTRICAL DEMOLITION NOTES MEANS THE EXISTING BRANCH CIRCUIT, PANEL BOARD CIRCUIT BREAKER OR THE FIRST BRANCH CIRCUIT OUTLET NOT DESIGNATED/REQUIRED FOR REMOVAL WITHIN THE CURRENT DEMOLITION PHASE OF WORK.
- COORDINATE DEMOLITION WORK WITH WORK SHOWN ON SCADA AND ARCHITECTURAL DEMOLITION DRAWINGS. NO LAPSE IN ELECTRICAL POWER, LIGHTING, AND LOW VOLTAGE SYSTEMS ARE PERMITTED UNDER THIS CONTRACT. CONTRACTOR SHALL MAKE TEMPORARY SERVICE PROVISIONS AS REQUIRED.

REVISIONS CLARIFIER SYSTEM REHABILITATION ELECTRICAL 0 | 12/07/2020 | 30% REVIEW BASINS 1-4 03/17/2021 80% REVIEW LEGEND AND GENERAL NOTES 2 06/04/2021 100% REVIEW 09/24/2021 ISSUED FOR BID NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY NCP USE DIMENSIONS ONLY PROJECT ENG'R NCP **DATE** 06/04/2021 **APPROVED** MR PROJECT E6X94500 SCALE AS NOTED USE APPROVED DRAWINGS ONLY E - 001

FOR CONSTRUCTION PURPOSES



EXHAUST FAN RECEPTACLE GROUP 2 - STANCHION MOUNTED JUNCTION BOX **EFFLUENT** FILTER BUILDING P-010 ILDING — EFFLUENT VALVES 3 AND 4 DRIVE UNIT VALVES 1 AND 2 (TYP. FOR 32) EFFLUEN J-G P-023 __ SCP-1 1 4-L-4 1 4-L-3 1 4-L-2 1 4-L-1 3 SCP-5 3-L-3 **EXHAUST FAN** - EXHAUST FAN RECEPTACLE RECEPTACLE GROUP 5 ∖GROUP 3 0 0 MONITORING INSTRUMENTS - CONCRETE ENCASED CONDUIT. FOR BASINS 3/4 INSTALL NEW CONCRETE CONDUIT FOR (3) 120V CONTROL INSTRUMENTS. ENCASED CONDUITS ADJACENT REFER TO PROCESS DRAWINGS FOR MORE TO EXISTING. REFER TO PHOTO 1 - P-013 MONITORING INSTRUMENTS ON DRAWING E-202 FOR PHOTO. INFORMATION (TYP) P-014 FOR BASINS 1/2 (TYP FOR SLUDGE CONTROL PANELS) CONDUITS MOUNTED TO INTERIOR P-023, WALL OR CEILING OF CATTLECHUTE P-024 CONDUITS MOUNTED TO INTERIOR WALL OR CEILING OF CATTLECHUTE SEDIMENTATION BASIN NOS. 5 & 6 P-026 BASIN NO. 4 BASIN NO. 2 BASIN NO. 1 REFER TO DETAIL 2 ON E-106 -FOR ENLARGED PLAN P-010, BASIN 1-4 INFLUENT/EFFLUENT 480V 20A 3P RECEPTACLE FOR PORTABLE P-011 EXHAUST FANS (TYP) CONTROL PANEL EXHAUST FAN -- HATCH (TYP.) RECEPTACLE GROUP 4 P-025 P-013, - EXHAUST FAN RECEPTACLE P-014 120/208V, 50A, 3PH, 4W GROUP 1 POWER PANEL PP-2 - 15KVA 480-120/208V Δ-Y XFMR-2 MOUNTED CONCRETE PAD FOR PORTABLE ON 4" CONCRETE EQUIPMENT PAD EXHAUST FANS (TYP) P-006 BASIN NO. 4 BASIN NO. 2 CONCRETE ENCASED CONDUIT (TYP FOR ALL INFLUENT/EFFLUENT VALVE CONDUITS) P-010, P-011 CONDUIT SHALL TRANSITION TO DRIVE GALLERY BELOW AND TERMINATE AT − P-022, REFER TO DRAWING E-104 FOR INFLUENT JUNCTION BOX AS REQUIRED. REFER TO P-023, PIPE GALLERY AND E-105 FOR VALVES 3 AND 4 DRAWING E-104 FOR CONTINUATION. P-024 DRIVE GALLERY PLANS OPERATORS INFLUENT P-008 P-007 VALVES 1 AND 2 **4** 6 E-202 /P-025, P-026 P-020 P-007, P-008, P-009, P-010, P-011 P-016, P-017, P-018, P-019 PROPOSED LIGHTING CONDUITS. REFER TO P-003 480V, 150A, 3P, 3W PANEL PP-1 P-016, P-017, P-018, P-019, P-020 DRAWING L-101 FOR MORE INFORMATION. (TYP) P-002 480V 3P 4W 70A LIGHTING PANEL BASIN NO. 2 LP-1. REFER TO PANEL TO FLOCCULATOR DRIVE FEEDER CABINET SCHEDULE ON L-301 FOR MORE INFORMATION 45KVA 480-480/277V Δ-Y XFMR-1 MOUNTED ON 4" CHEMICAL CONCRETE EQUIPMENT PAD BUILDING E-202 480V, 150A, 3P, 3W MECHANICAL PANEL MP-1 ELECTRICAL ROOM P-004 - P-001 REFER TO DETAIL 1 ON E-106 FOR ENLARGED PLAN EXISTING MCC-3 **EXISTING NETWORK SWITCH** POWER CONDUIT PLAN $\left\langle E-101\right\rangle$ 3/64" = 1'-0" 0 4' 8' 16' Jacobs JOSEPH N. BONGIOVANNI, PE

ELECTRICAL NOTES:

1. NOT ALL CONDUITS SHOWN FOR CLARITY. REFER TO ONE LINE DIAGRAM AND CONDUIT SCHEDULE FOR MORE

INFORMATION. SHARING OF NEUTRALS IS NOT PERMITTED.

3. ALL FINAL CABLE TERMINATIONS FOR TRANSFORMER LOADS, MOTORIZED EQUIPMENT, AND ALL ELECTRICAL EQUIPMENT SUBJECT TO VIBRATION SHALL USE LIQUID TIGHT FLEXIBLE CONDUIT (LFMC). MAXIMUM LENGTH OF LFMC

4. CONTRACTOR TO PROVIDE PULL BOXES AS NECESSARY FOR CABLE ROUTING. CONDUIT RUN NOT TO EXCEED MORE THAN 360 DEGREES PER NEC STANDARDS.

COMMUNICATION CONDUIT/CABLING ROUTING IS SHOWN DIAGRAMMATICALLY. REFER TO DRAWING I-010 FOR COMMUNICATION DIAGRAM AND CABLE REQUIREMENTS.

6. ONLY ONE BASIN SHALL BE WORKED ON AT A TIME. ALL OTHER BASINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION.

REVISIONS CLARIFIER SYSTEM REHABILITATION ELECTRICAL 12/07/2020 30% REVIEW BASINS 1-4 03/17/2021 80% REVIEW POWER CONDUIT PLAN 2 06/04/2021 100% REVIEW 09/24/2021 ISSUED FOR BID NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY AM DATE 06/04/2021 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED PROJECT ENG'R NCP APPROVED MR USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES E - 101

NJPE LICENSE NO. 24GE04377400

TRANSITION FROM ABOVE GROUND CONDUIT TO BELOW GROUND CONCRETE -ENCASED CONDUIT (TYP FOR ALL CONDUIT PENETRATIONS THROUGH CATTELCHUTE) STANCHION MOUNTED JUNCTION BOX EFFLUENT -FILTER BUILDING | LAB BUILDING _ EFFLUENT VALVES 3 AND 4 DRIVE UNIT VALVES 1 AND 2 (TYP. FOR 32) EFFLUENT GATE OPERATORS __ SCP-1 - SCP-7 ^{_} SCP-6 - C-007 C-008 -MONITORING INSTRUMENTS -C-010 -FOR BASINS 3/4 MONITORING INSTRUMENTS FOR BASINS 1/2 CONDUITS MOUNTED TO INTERIOR WALL OR CEILING OF CATTLECHUTE CONDUITS MOUNTED TO INTERIOR WALL OR CEILING OF CATTLECHUTE SEDIMENTATION SEDIMENTATION SEDIMENTATION REFER TO DRAWINGS I-010 AND BASIN NOS. 5 & 6 BASIN NO. 4 BASIN NO. 3 BASIN NO. 2 I-011 FOR FINAL COMMUNICATION CABLING REFER TO DETAIL 2 ON E-106 REQUIREMENTS (TYP) FOR ENLARGED PLAN BASIN 1-4 INFLUENT/EFFLUENT CONTROL PANEL C-010 -- HATCH (TYP.) C-008 C-008 120/208V, 50A, 3PH, 4W POWER PANEL PP-2 - 15KVA 480-120/208V Δ-Y XFMR-2 MOUNTED ON 4" CONCRETE EQUIPMENT PAD MIXING BASIN NO. 4 BASIN NO BASIN NO. 2 CONCRETE ENCASED CONDUIT (TYP FOR ALL INFLUENT/EFFLUENT VALVE CONDUITS) CONDUIT SHALL TRANSITION TO DRIVE GALLERY BELOW AND TERMINATE AT REFER TO DRAWING E-104 FOR - INFLUENT JUNCTION BOX AS REQUIRED. REFER TO PIPE GALLERY AND E-105 FOR VALVES 3 AND 4 DRAWING E-104 FOR CONTINUATION. DRIVE GALLERY PLANS INFLUENT GA OPERATORS INFLUENT VALVES 1 AND 2 C-001, C-007, C-008 480V, 150A, 3P, 3W PANEL PP-1 REACTION 480V 3P 4W 70A LIGHTING PANEL BASIN NO. 2 LP-1. REFER TO PANEL SCHEDULE ON L-301 FOR MORE C010 -INFORMATION 45KVA 480-480/277V Δ-Y XFMR-1 MOUNTED ON 4" CHEMICAL CONCRETE EQUIPMENT PAD BUILDING 480V, 150A, 3P, 3W MECHANICAL PANEL MP-1 **ELECTRICAL ROOM** STORAGE - C-001 REFER TO DETAIL 1 ON E-106 - C-002, C-009 FOR ENLARGED PLAN EXISTING MCC-3 EXISTING NETWORK SWITCH COMMUNICATION CONDUIT PLAN (E-102) 3/64" = 1'-0" 0.4'.8'.16' 32'Jacobs JOSEPH N. BONGIOVANNI, PE NJPE LICENSE NO. 24GE04377400

ELECTRICAL NOTES:

1. NOT ALL CONDUITS SHOWN FOR CLARITY. REFER TO ONE LINE DIAGRAM AND CONDUIT SCHEDULE FOR MORE

3. ALL FINAL CABLE TERMINATIONS FOR TRANSFORMER LOADS, MOTORIZED EQUIPMENT, AND ALL ELECTRICAL EQUIPMENT SUBJECT TO VIBRATION SHALL USE LIQUID TIGHT FLEXIBLE CONDUIT (LFMC). MAXIMUM LENGTH OF LFMC

4. CONTRACTOR TO PROVIDE PULL BOXES AS NECESSARY FOR CABLE ROUTING. CONDUIT RUN NOT TO EXCEED MORE THAN 360 DEGREES PER NEC STANDARDS.

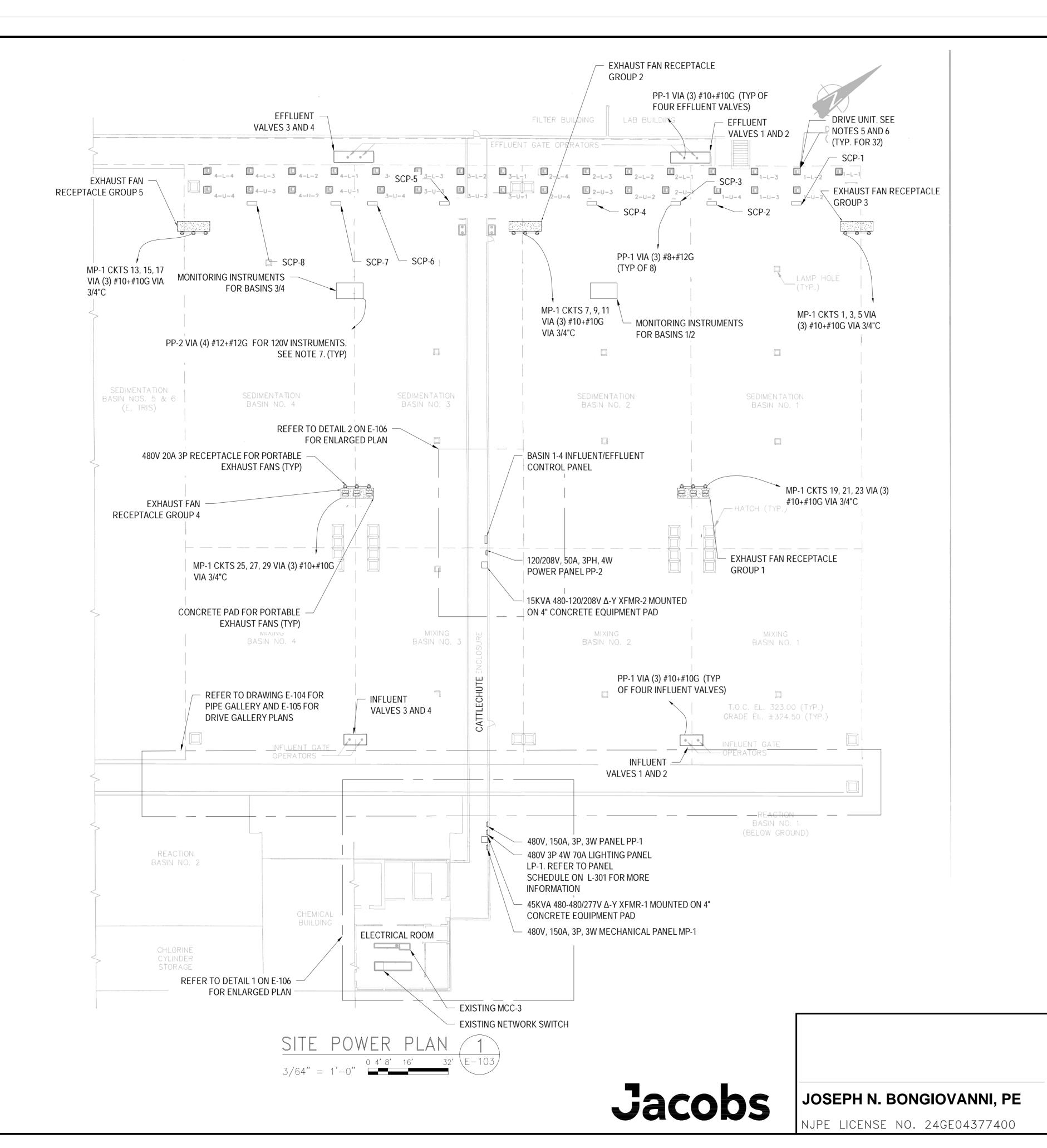
5. COMMUNICATION CONDUIT/CABLING ROUTING IS SHOWN DIAGRAMMATICALLY. REFER TO DRAWINGS E-504, I-010 AND I-011 FOR COMMUNICATION DIAGRAMS AND CABLE REQUIREMENTS.

6. ONLY ONE BASIN SHALL BE WORKED ON AT A TIME. ALL OTHER BASINS MUST REMAIN OPERATIONAL DURING

CONSTRUCTION.

7. REFER TO DRAWING E-503 FOR CABLE AND CONDUIT SCHEDULES.

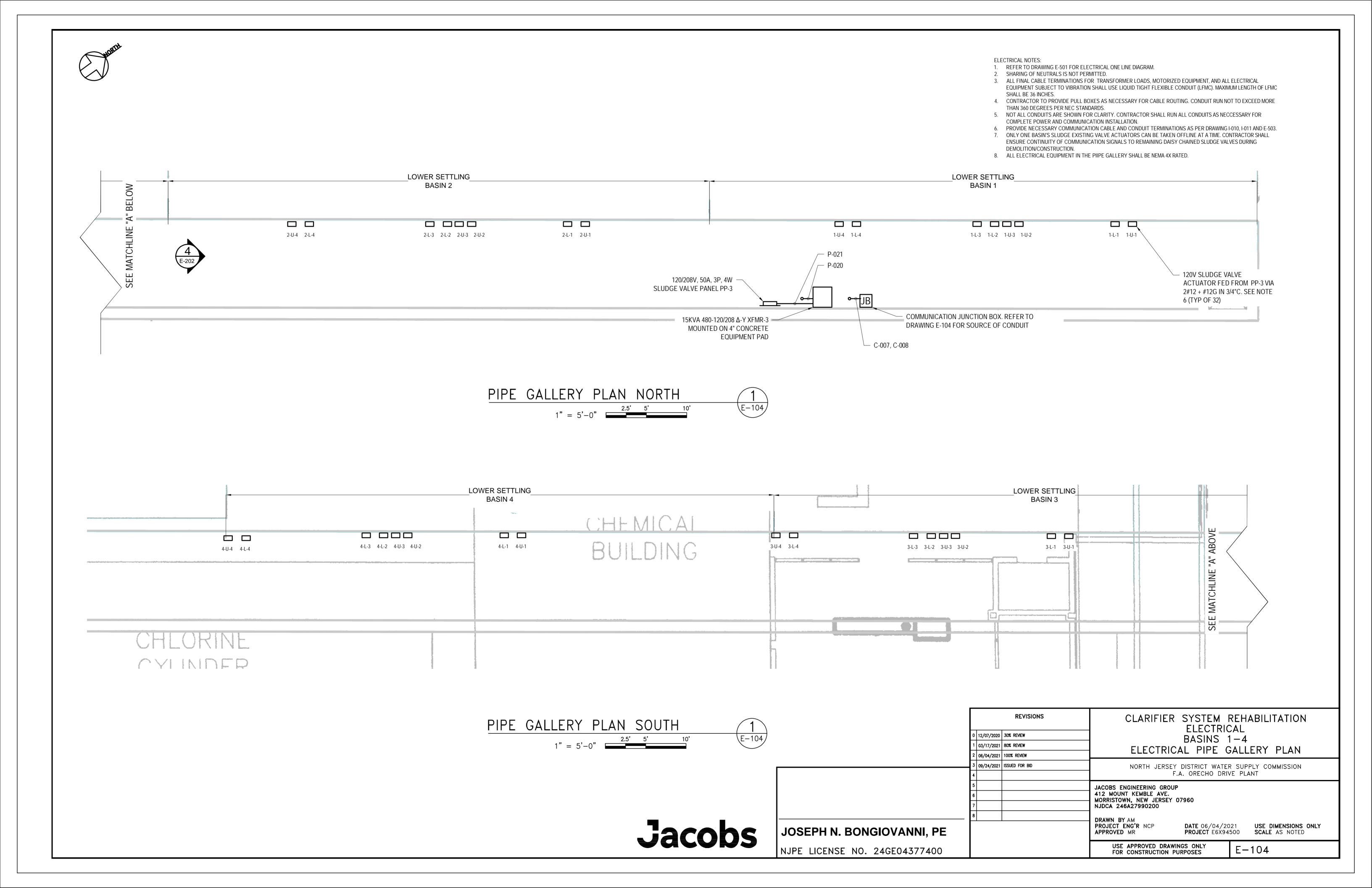
| REVISIONS 0 12/07/2020 30% REVIEW 1 03/17/2021 80% REVIEW | CLARIFIER SYSTEM REHABILITATION ELECTRICAL BASINS 1-4 | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| 2 06/04/2021 100% REVIEW | COMMUNICATION CONDUIT PLAN | | | | | | | |
| 3 09/24/2021 ISSUED FOR BID 4 | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT | | | | | | | |
| 5 6 7 | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 | | | | | | | |
| 8 | DRAWN BY AM PROJECT ENG'R NCP APPROVED MR DATE 06/04/2021 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED | | | | | | | |
| use approved drawings only for construction purposes $E-102$ | | | | | | | | |

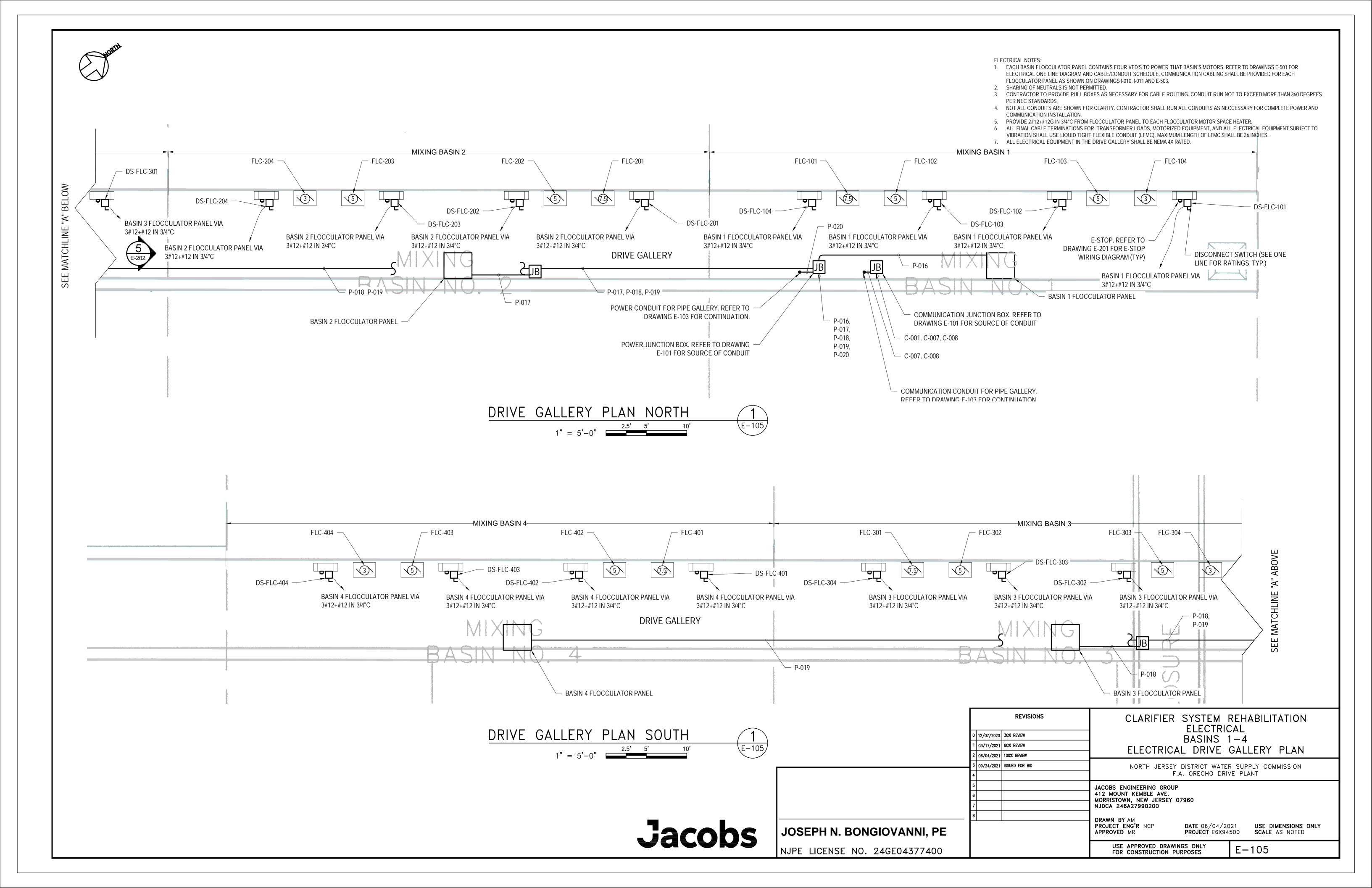


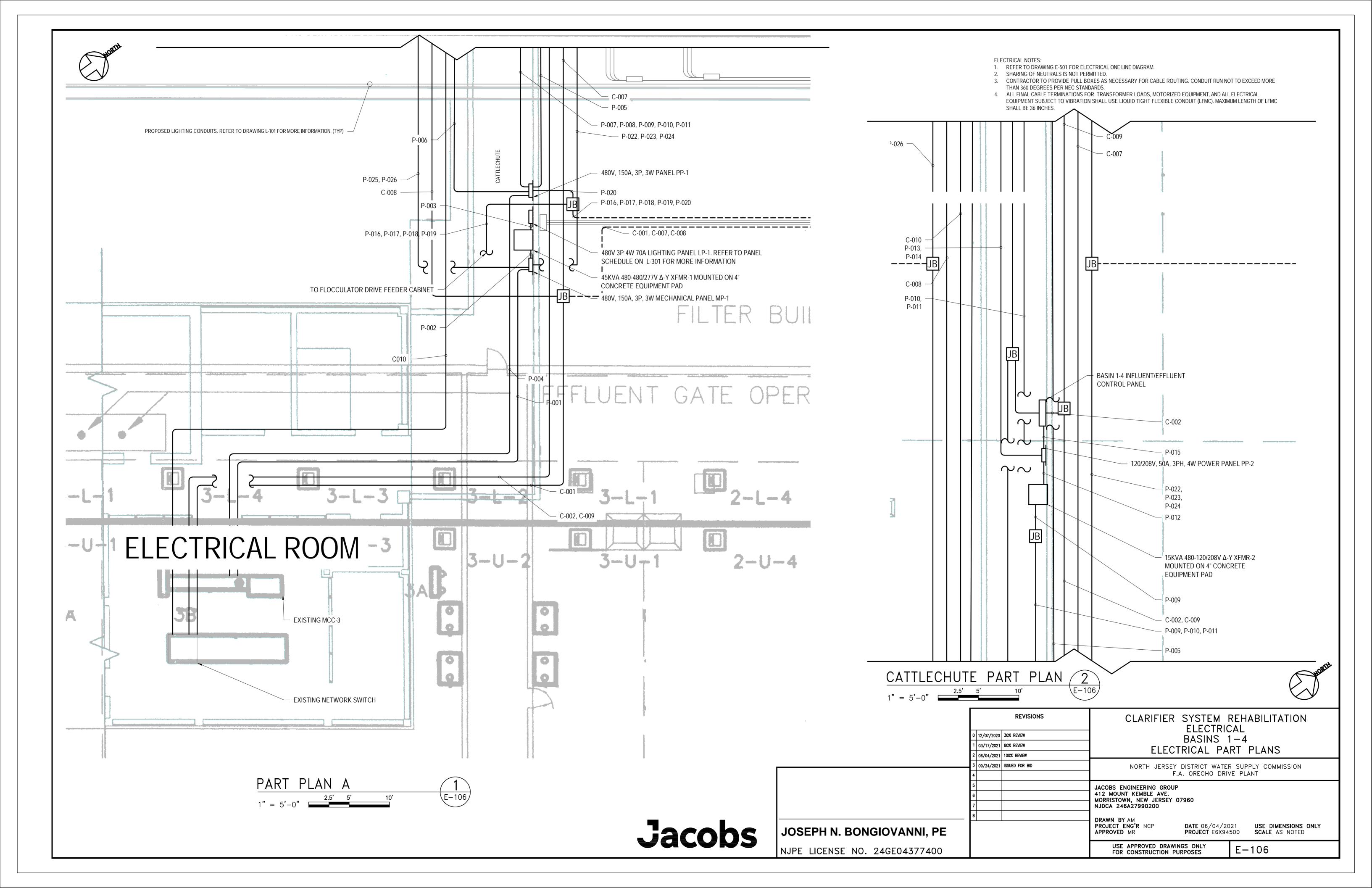
ELECTRICAL NOTES:

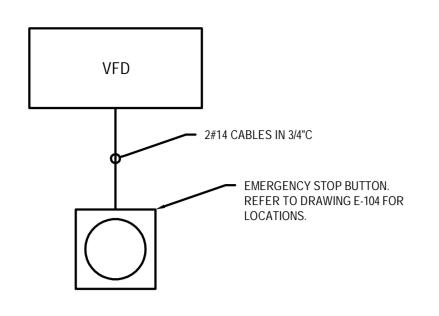
- 1. REFER TO DRAWING E-501 FOR ELECTRICAL ONE LINE DIAGRAM.
- 2. SHARING OF NEUTRALS IS NOT PERMITTED.
- 3. ALL FINAL CABLE TERMINATIONS FOR TRANSFORMER LOADS, MOTORIZED EQUIPMENT, AND ALL ELECTRICAL EQUIPMENT SUBJECT TO VIBRATION SHALL USE LIQUID TIGHT FLEXIBLE CONDUIT (LFMC). MAXIMUM LENGTH OF LFMC SHALL BE 36 INCHES.
- 4. CONTRACTOR TO PROVIDE PULL BOXES AS NECESSARY FOR CABLE ROUTING. CONDUIT RUN NOT TO EXCEED MORE THAN 360 DEGREES PER NEC STANDARDS.
- 5. EACH DRIVE UNIT SHALL BE POWERED FROM ITS ASSOCIATED SLUDGE COLLECTOR PANEL VIA 3-#12+#12G IN EXISTING CONDUIT. IF CONDUITS CANNOT BE REUSED DUE TO THEIR CONDITION FURNISH AND INSTALL NEW CONDUIT TO THE DRIVE UNITS. REFER TO DRAWING I-010 AND I-011 FOR NETWORK DIAGRAM THAT SHOWS THE DRIVE UNIT ASSOCIATIONS.
- 6. COMMUNICATION CABLES FOR THE DRIVE UNITS SHALL BE INSTALLED IN EXISTING DRIVE UNIT CONDUITS. IF CONDUITS CANNOT BE REUSED DUE TO THEIR CONDITION FURNISH AND INSTALL NEW CONDUIT TO THE DRIVE UNITS. REFER TO DRAWINGS I-010 AND I-011 FOR CABLE REQUIREMENTS TO EACH DRIVE UNIT.
- 7. PROVIDE LOW VOLTAGE POWER AND COMMUNICATION CABLING AS NECESSARY FROM FLOWCERT MONITOR TO FLOW SENSORS. REFER TO PROCESS DRAWINGS FOR MORE INFORMATION ON MONITORING INSTRUMENTS.
- 8. REFER TO DRAWINGS E-101 AND E-102 FOR POWER AND COMMUNICATION CONDUIT ROUTING. REFER TO DRAWING E-503 FOR CABLE AND CONDUIT SCHEDULES.

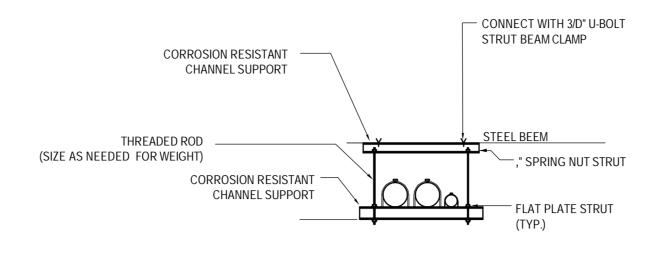
REVISIONS CLARIFIER SYSTEM REHABILITATION ELECTRICAL 12/07/2020 30% REVIEW BASINS 1-4 03/17/2021 80% REVIEW ELECTRICAL POWER PLAN 2 06/04/2021 100% REVIEW 09/24/2021 ISSUED FOR BID NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY AM DATE 06/04/2021 USE DIMENSIONS ONLY PROJECT E6X94500 SCALE AS NOTED PROJECT ENG'R NCP APPROVED MR USE APPROVED DRAWINGS ONLY E - 103FOR CONSTRUCTION PURPOSES

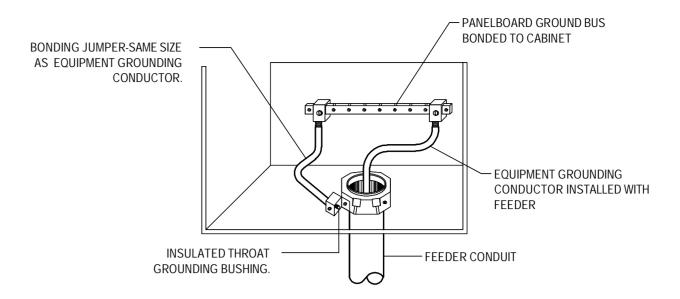














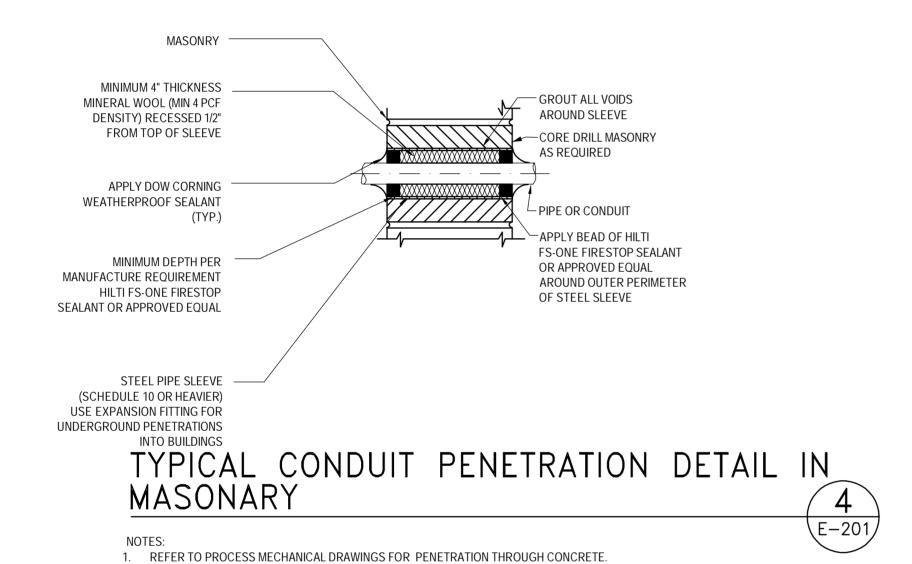
RAM 1 E-201

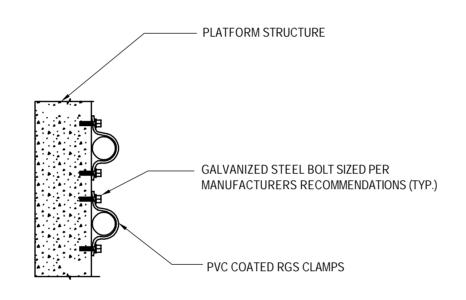
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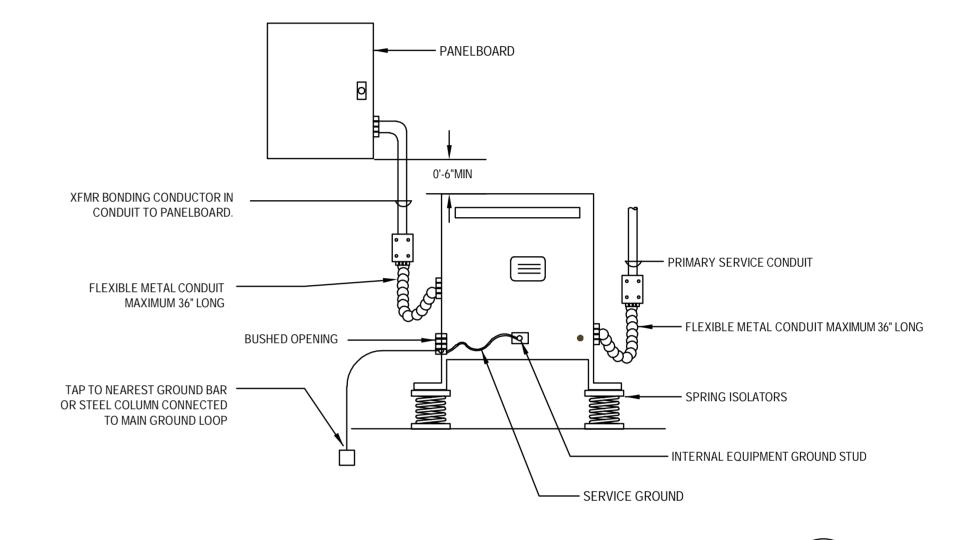
1. E-STOP SHALL BE WIRED SUCH THAT ONLY THE MOTOR ASSOCIATED WITH THAT E-STOP TURNS OFF WHEN THE BUTTON IS PRESSED..

TYPICAL CONDUIT RACK DETAILS 2

PANELBOARD GROUNDING DETAIL





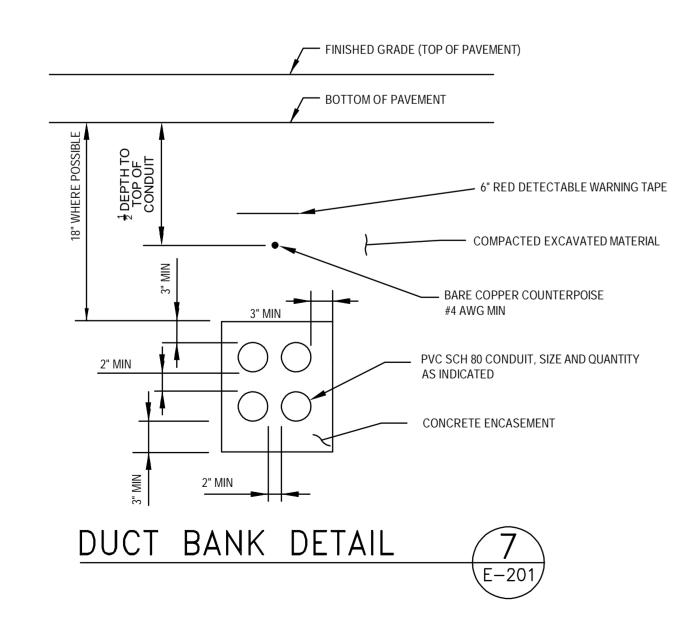


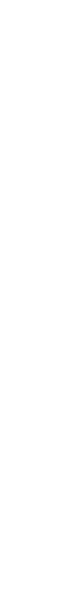
TYPICAL CONDUIT SUPPORT DETAIL

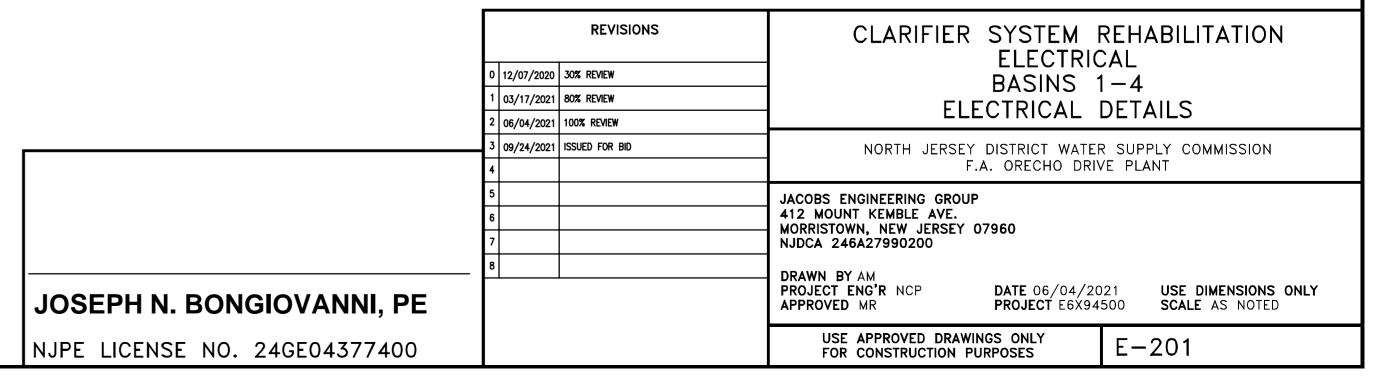
TRANSFORMER CONNECTION DETAIL

NOTES:

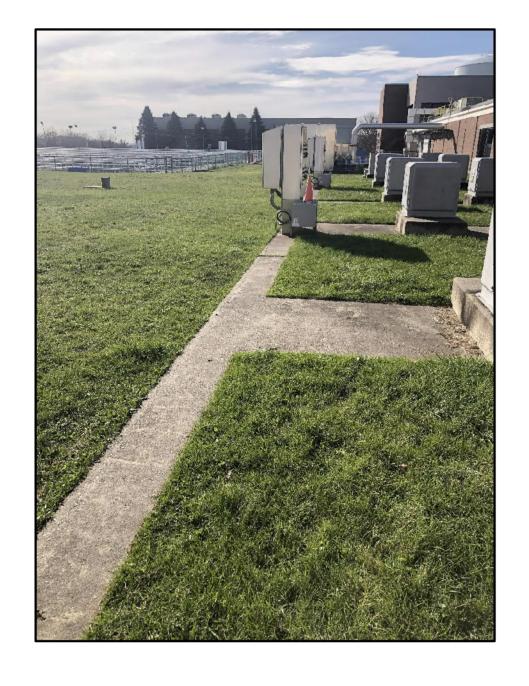
1. PROVIDE A MINIMUM OF 8" CLEARANCE FOR ALL TRANSFORMER 75 KVA AND BELOW. 12" CLEARANCE FOR ALL TRANSFORMERS GREATER THAN 75 KVA TO ALL WALLS AND EQUIPMENT FOR VENTILATION. 3'-1/2" CLEARANCE REQUIRED AT ACCESS FRONT COVER.





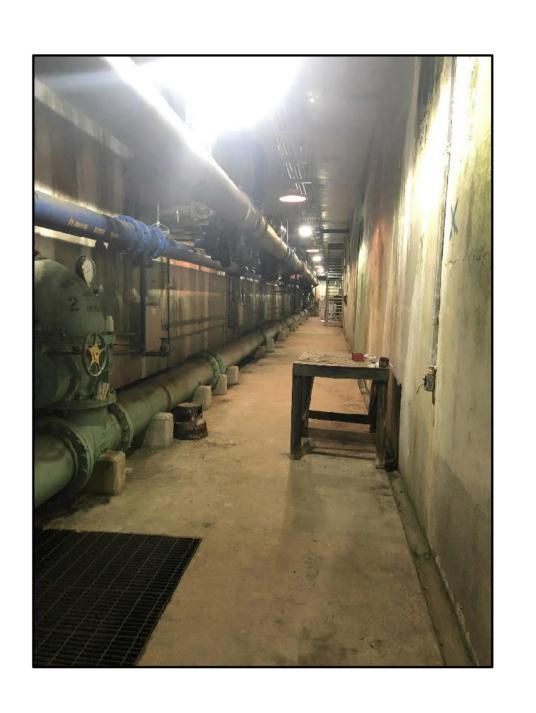


Jacobs

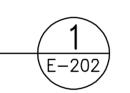














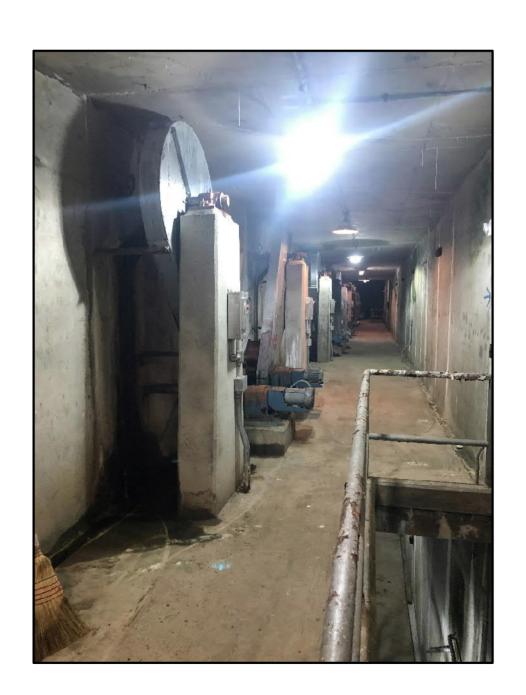


PANELS TO BE DEMOLISHED



PIPE GALLERY







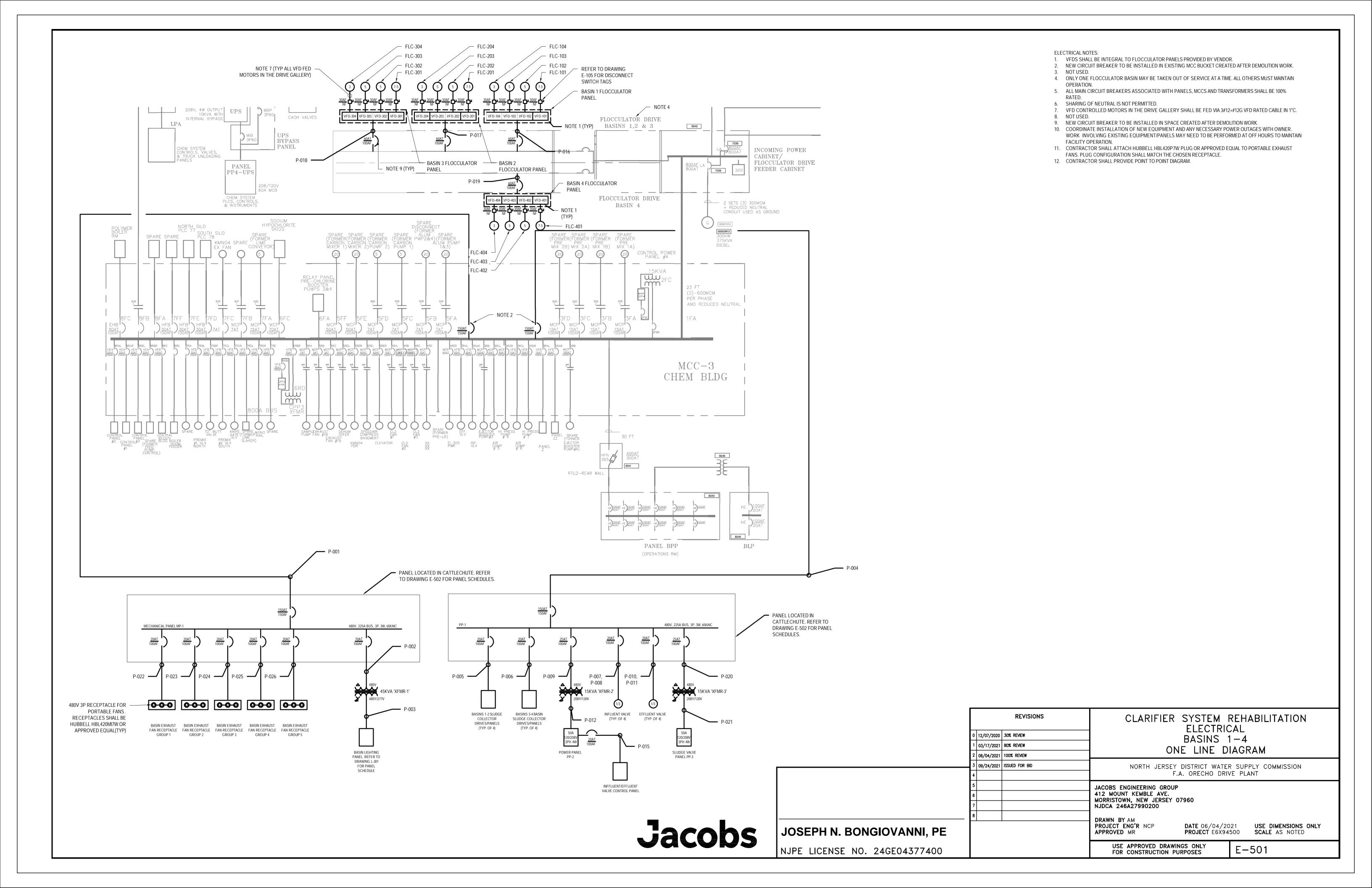


EXTERIOR GRADE 6
E-202

Jacobs

| | | REVISIONS | CLARIFIER SYSTEM REHABILITATION ELECTRICAL | | | | | | |
|----------------------|--------------|----------------|---|--------------------------------|------------|---------------------------------------|--|--|--|
| | 0 12/07/2020 | 30% REVIEW | | BASINS 1 | | | | | |
| | 1 03/17/2021 | 80% REVIEW | | | HOTOGRAPHS | | | | |
| | 2 06/04/2021 | 100% REVIEW | ELECTI | TAFIS | | | | | |
| | 3 09/24/2021 | ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | | | |
| | 4 | | F. | ANT | | | | | |
| | 5 | | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | NJDCA 246A27990200 | | | | | | |
| | 8 | | DRAWN BY AM | | | | | | |
| N. BONGIOVANNI, PE | | | PROJECT ENG'R NCP APPROVED MR | DATE 06/04/20 PROJECT E6X94 | | USE DIMENSIONS ONLY SCALE AS NOTED | | | |
| NSE NO. 24GE04377400 | | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES E-202 | | | | | | |

JOSEPH N. NJPE LICENSE NO. 24GE04377400



| | BUS AMPS: 225A | PHASE: | 3 | | | PANEL | .: PP-1 | | | | | | FEED: BOTTOM | |
|------|-------------------------|---------|-----------|-----|--------|-----------------|------------|---|--------|-----|-----------|-----|-----------------------|------|
| CKT. | MAIN DEVICE: 150A | VOLTAGE | 480V | | | NEW PANE | EL SHEDULE | | | | | | MOUNTING: SURFACE | CKT. |
| NO. | MINIMUM A.I.C.: 65 KAIC | WIRE: | 3 | | | | | | | | | | LOCATION: CATTLECHUTE | NO. |
| | DESCRIPTION | | LOAD (VA) | | CB (A) | Α | В | С | CB (A) | | LOAD (VA) |) | DESCRIPTION | |
| 1 | LOWER BASIN SLUDGE | - | - | - | | Х | | | | 305 | - | - | | 2 |
| 3 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | INFLUENT VALVE #2 | 4 |
| 5 | DRIVE/PANEL #1 | - | - | - | 1 | | | Х | | - | - | 305 | | 6 |
| 7 | LOWER BASIN SLUDGE | - | - | - | | Х | | | | 305 | - | - | | 8 |
| 9 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | INFLUENT VALVE #3 | 10 |
| 11 | DRIVE/PANEL #2 | - | - | - | | | | Х | | - | - | 305 | | 12 |
| 13 | LOWER BASIN SLUDGE | - | - | - | | Х | | | | 305 | - | - | | 14 |
| 15 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | INFLUENT VALVE #4 | 16 |
| 17 | DRIVE/PANEL #3 | - | - | = | | | | Х | | - | - | 305 | | 18 |
| 19 | LOWER BASIN SLUDGE | - | - | - | | X | | | | 305 | - | - | | 20 |
| 21 | COLLECTOR | - | - | = | 20 | | Х | | 20 | - | 305 | - | EFFLUENT VALVE #1 | 22 |
| 23 | DRIVE/PANEL #4 | - | - | - | | | | X | | - | - | 305 | | 24 |
| 25 | UPPER BASIN SLUDGE | - | - | - | | X | | | | 305 | - | - | | 26 |
| 27 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | EFFLUENT VALVE #2 | 28 |
| 29 | DRIVE/PANEL #1 | - | - | - | | | | X | | - | - | 305 | | 30 |
| 31 | UPPER BASIN SLUDGE | - | - | - | | Х | | | | 305 | - | - | | 32 |
| 33 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | EFFLUENT VALVE #3 | 34 |
| 35 | DRIVE/PANEL #2 | - | - | - | | | | Х | | - | - | 305 | | 36 |
| 37 | UPPER BASIN SLUDGE | - | - | - | | Х | | | | 305 | - | - | | 38 |
| 39 | COLLECTOR | - | - | - | 20 | | Х | | 20 | - | 305 | - | EFFLUENT VALVE #4 | 40 |
| 41 | DRIVE/PANEL #3 | - | - | - | | | | Х | | - | - | 305 | | 42 |
| 43 | UPPER BASIN SLUDGE | - | - | - | | Х | | | | - | - | - | | 44 |
| 45 | COLLECTOR | - | - | - | 20 | | Х | | 25 | - | - | - | XFMR-3 | 46 |
| 47 | DRIVE/PANEL #4 | - | - | - | | | | X | | - | - | - | | 48 |
| 49 | | - | - | - | | X | | | - | - | - | - | | 50 |
| 51 | XFMR-2 | - | - | - | 25 | | Х | | - | - | - | - | | 52 |
| 53 | | - | - | - | | | | X | - | - | - | - | | 54 |
| 55 | | 305 | - | - | | X | | | - | - | - | - | | 56 |
| 57 | INFLUENT VALVE #1 | - | 305 | - | 20 | | Х | | - | - | - | - | | 58 |
| 59 | | - | - | 305 | | | | X | - | - | - | - | | 60 |

| | BUS AMPS: 100A | PHASE: | 3 | | | POWER PA | ANEL PP-2 | | | | | | FEED: BOTTOM | |
|------|----------------------------------|---------|-----------|-----|--------|-----------------|------------|---|--------|------|-----------|------|-------------------------|------|
| CKT. | MAIN DEVICE: 50A | VOLTAGE | 120/208V | | | NEW PANE | EL SHEDULE | | | | | | MOUNTING: SURFACE | CKT. |
| NO. | MINIMUM A.I.C.: 65 KAIC | WIRE: | 4 | | | | | | | | | | LOCATION: CATTLECHUTE | NO. |
| | DESCRIPTION | | LOAD (VA) | | CB (A) | Α | В | С | CB (A) | | LOAD (VA) | | DESCRIPTION | |
| 1 | FLOWMETER FM-01 BASIN 1 (FUTURE) | 100 | - | - | 20 | Х | | | | 1000 | - | - | DACIN INCLUENT/EFFLUENT | 2 |
| 3 | FLOWMETER FM-02 BASIN 2 (FUTURE) | - | 100 | - | 20 | | Х | | 20 | - | 1000 | - | BASIN INFLUENT/EFFLUENT | 4 |
| 5 | FLOWMETER FM-03 BASIN 3 (FUTURE) | - | - | 100 | 20 | | | Х | | - | - | 1000 | -CONTROL PANEL | 6 |
| 7 | FLOWMETER FM-04 BASIN 4 (FUTURE) | 100 | - | - | 20 | Х | | | 20 | - | - | - | SPARE | 8 |
| 9 | TURBIDITY SENSOR BASIN 1 TB-01 | - | 100 | - | 20 | | Х | | 20 | - | - | - | SPARE | 10 |
| 11 | TURBIDITY SENSOR BASIN 2 TB-02 | - | - | 100 | 20 | | | Х | 20 | - | - | - | SPARE | 12 |
| 13 | TURBIDITY SENSOR BASIN 3 TB-03 | 100 | - | - | 20 | Χ | | | - | - | - | - | SPACE | 14 |
| 15 | TURBIDITY SENSOR BASIN 4 TB-04 | - | 100 | - | 20 | | Х | | - | - | - | - | SPACE | 16 |
| 17 | SPARE | - | - | - | 20 | | | X | - | = | - | - | SPACE | 18 |
| 19 | SPARE | - | - | - | 20 | X | | | - | = | - | - | SPACE | 20 |
| 21 | SPARE | - | - | - | 20 | | X | | - | - | - | - | SPACE | 22 |
| 23 | SPACE | - | - | - | - | | | X | - | = | - | - | SPACE | 24 |
| 25 | SPACE | - | - | - | - | X | | | - | - | - | - | SPACE | 26 |
| 27 | SPACE | - | - | - | - | | X | | - | - | - | - | SPACE | 28 |
| 29 | SPACE | - | - | - | - | | | X | - | - | - | - | SPACE | 30 |

NOTES:

ELECTRICAL NOTES:

- REFER TO DRAWING L-301 FOR LIGHTING PANEL LP-1 PANEL SCHEDULE.
- 2. CONTRACTOR SHALL PROVIDE POINT TO POINT DIAGRAM.

| | | PHASE: | 3 | | | MECHANICA | L PANEL MP | -1 | | | | | | |
|------|---------------------------|--------|-----------|------|--------|----------------|------------|----|--------|----------|-----------|----------------|-----------------------|--------------|
| CKT. | BUS AMPS: 225A | | | | | | | | | | | | FEED: BOTTOM | <u></u> скт. |
| NO. | MAIN DEVICE: 150A | VOLTAG | 480V | | | NEW PANE | EL SHEDULE | | | | | | MOUNTING: SURFACE | NO. |
| 140. | MINIMUM A.I.C.: 65 KAIC | WIRE: | 3 | | | | | | | | | | LOCATION: CATTLECHUTE | |
| | DESCRIPTION | | LOAD (VA) | | CB (A) | Α | В | С | CB (A) | | LOAD (VA) | | DESCRIPTION | |
| 1 | EXHAUST FAN RECEPTACLE | 1330 | - | - | | Х | | | | 15000 | - | - | | 2 |
| 3 | GROUP 1 | - | 1330 | - | 20 | | Х | | 70 | - | 15000 | - | XFMR-1 | 4 |
| 5 | -GROUP I | - | - | 1330 | [| | | Х | | - | - | 15000 | | 6 |
| 7 | EVILABLET FAN DECEDTACI E | 1330 | - | - | | Х | | | - | - | - | - | SPACE | 8 |
| 9 | EXHAUST FAN RECEPTACLE | - | 1330 | - | 20 | | Х | | - | - | - | - | SPACE | 10 |
| 11 | GROUP 2 | - | - | 1330 | | | | Х | - | - | - | - | SPACE | 12 |
| 13 | EVILABLET FAN DECEDTACI E | 1330 | - | - | | Х | | | - | - | - | - | SPACE | 14 |
| 15 | EXHAUST FAN RECEPTACLE | - | 1330 | - | 20 | | Х | | - | - | - | - | SPACE | 16 |
| 17 | GROUP 3 | - | - | 1330 | | | | Х | - | - | - | - | SPACE | 18 |
| 19 | EVILABLET FAN DECERTACI E | 1330 | - | - | | Х | | | - | - | - | - | SPACE | 20 |
| 21 | EXHAUST FAN RECEPTACLE | - | 1330 | - | 20 | | Х | | - | - | - | - | SPACE | 22 |
| 23 | GROUP 4 | - | - | 1330 | | | | Х | - | - | - | - | SPACE | 24 |
| 25 | EVILALIOT FAN DEOEDTAOLE | 1330 | - | - | | Х | | | - | - | - | - | SPACE | 26 |
| 27 | EXHAUST FAN RECEPTACLE | - | 1330 | - | 20 | | Х | | - | - | - | - | SPACE | 28 |
| 29 | GROUP 5 | - | - | 1330 | | | | Х | - | - | - | - | SPACE | 30 |
| 31 | | - | - | - | | Х | | | - | - | - | - | SPACE | 32 |
| 33 | SPARE | - | - | - | 20 | | Х | | - | - | - | - | SPACE | 34 |
| 35 | | - | - | - | 1 | | | Х | - | - | - | - | SPACE | 36 |
| 37 | | - | - | - | | Х | | | - | - | - | - | SPACE | 38 |
| 39 | SPARE | - | - | - | 20 | | Х | | - | - | - | - | SPACE | 40 |
| 41 | | - | - | - | | | | Х | - | - | - | - | SPACE | 42 |
| 43 | SPARE | - | - | - | 20 | Х | | | - | - | - | - | SPACE | 44 |
| 45 | SPARE | - | - | - | 20 | | Х | | - | - | - | - | SPACE | 46 |
| | SPACE | - | - | - | | | | Х | - | - | - | - | SPACE | 48 |
| | SPACE | - | - | - | - | Х | | | - | - | - | - | SPACE | 50 |
| 51 | SPACE | - | - | - | - | - - | X | | - | - | - | - | SPACE | 52 |
| 53 | SPACE | - | - | - | - | | | Х | - | - | - | - | SPACE | 54 |
| 55 | SPACE | - | - | _ | - | X | | | - | - | - | _ | SPACE | 56 |
| 57 | SPACE | - | - | - | - | - 1 | X | | - | _ | _ | - | SPACE | 58 |
| 59 | SPACE | - | _ | _ | - | | | X | _ | _ | _ | _ | SPACE | 60 |
| | Jo. 7.0E | | | - | | | | ^ | | <u> </u> | _ | _ | VI / IVE | |

| | BUS AMPS: 50A | PHASE: | 3 | | | SLUDGE VAL | VE PANEL PP | -3 | | | | | FEED: BOTTOM | |
|------|-------------------------|---------|-----------|-----|--------|-----------------|-------------|----|--------|-----|-----------|-----|-----------------------|------|
| CKT. | MAIN DEVICE: 50A | VOLTAGE | 120/208V | | | NEW PANE | EL SHEDULE | | | | | | MOUNTING: SURFACE | CKT. |
| NO. | MINIMUM A.I.C.: 65 KAIC | WIRE: | 4 | | | | | | | | | | LOCATION: CATTLECHUTE | NO. |
| | DESCRIPTION | | LOAD (VA) | | CB (A) | Α | В | С | CB (A) | | LOAD (VA) | | DESCRIPTION | |
| 1 | VALVE OPERATOR 1-U-1 | 218 | - | - | 20 | Х | | | 20 | 218 | - | - | VALVE OPERATOR 3-U-1 | 2 |
| 3 | VALVE OPERATOR 1-L-1 | - | 218 | - | 20 | | Х | | 20 | - | 218 | - | VALVE OPERATOR 3-L-1 | 4 |
| 5 | VALVE OPERATOR 1-U-2 | - | - | 218 | 20 | | | Х | 20 | - | - | 218 | VALVE OPERATOR 3-U-2 | 6 |
| 7 | VALVE OPERATOR 1-U-3 | 218 | - | - | 20 | Х | | | 20 | 218 | - | - | VALVE OPERATOR 3-U-3 | 8 |
| 9 | VALVE OPERATOR 1-L-2 | - | 218 | - | 20 | | Х | | 20 | - | 218 | - | VALVE OPERATOR 3-L-2 | 10 |
| 11 | VALVE OPERATOR 1-L-3 | - | - | 218 | 20 | | | Х | 20 | - | - | 218 | VALVE OPERATOR 3-L-3 | 12 |
| 13 | VALVE OPERATOR 1-L-4 | 218 | - | - | 20 | Х | | | 20 | 218 | - | - | VALVE OPERATOR 3-L-4 | 14 |
| 15 | VALVE OPERATOR 1-U-4 | - | 218 | - | 20 | | Х | | 20 | - | 218 | - | VALVE OPERATOR 3-U-4 | 16 |
| 17 | VALVE OPERATOR 2-U-1 | - | - | 218 | 20 | | | Х | 20 | - | - | 218 | VALVE OPERATOR 4-U-1 | 18 |
| 19 | VALVE OPERATOR 2-L-1 | 218 | - | - | 20 | Х | | | 20 | 218 | - | - | VALVE OPERATOR 4-L-1 | 20 |
| 21 | VALVE OPERATOR 2-U-2 | - | 218 | - | 20 | | Х | | 20 | - | 218 | - | VALVE OPERATOR 4-U-2 | 22 |
| 23 | VALVE OPERATOR 2-U-3 | - | - | 218 | 20 | | | X | 20 | - | - | 218 | VALVE OPERATOR 4-U-3 | 24 |
| 25 | VALVE OPERATOR 2-L-2 | 218 | - | - | 20 | Х | | | 20 | 218 | - | • | VALVE OPERATOR 4-L-2 | 26 |
| 27 | VALVE OPERATOR 2-L-3 | - | 218 | - | 20 | | Х | | 20 | - | 218 | - | VALVE OPERATOR 4-L-3 | 28 |
| 29 | VALVE OPERATOR 2-L-4 | - | - | 218 | 20 | | | X | 20 | - | - | 218 | VALVE OPERATOR 4-L-4 | 30 |
| 31 | VALVE OPERATOR 2-U-4 | 218 | - | - | 20 | Х | | | 20 | 218 | - | - | VALVE OPERATOR 4-U-4 | 32 |
| 33 | SPARE | - | - | - | 20 | | Х | | 20 | - | - | - | SPARE | 34 |
| 35 | SPARE | - | - | - | 20 | | | Х | 20 | - | - | - | SPARE | 36 |
| 37 | SPACE | - | - | - | 20 | Х | | | 20 | - | - | - | SPACE | 38 |
| 39 | SPACE | - | - | - | 20 | | Х | | 20 | - | - | - | SPACE | 40 |
| 41 | SPACE | - | - | - | 20 | | | Х | 20 | - | - | - | SPACE | 42 |

CLARIFIER SYSTEM REHABILITATION

REVISIONS



FLOWMETERS FOR FUTURE USE AND ARE NOT PART OF THIS CONTRACT. CONTRACTOR TO RUN CABLES AND CONDUIT PER THESE DRAWINGS BUT DO NOT TERMINATE.

| | | | | | POWER CABLE/CON | DUIT SCHEDULE | | | | |
|-------------|---------------------------------|---|----------|---------|-----------------|---------------|-------------|------------|-------|---|
| CONDUIT NO | FDOM | TO. | | CONDUIT | | | | CABLE | | |
| CONDUIT NO. | FROM | ТО | QUANTITY | SIZE | TYPE | NUMBER & SIZE | GROUND SIZE | INSULATION | VOLTS | REMARKS |
| P-001 | MCC-3 | MP-1 | 1 | 1-1/12" | SEE NOTE 1 | (3)#1/0 AWG | #6 AWG | XHHW-2 | 600V | |
| P-002 | MP-1 | XFMR-1 | 1 | 1" | SEE NOTE 1 | (3) - #6 AWG | #8 AWG | XHHW-2 | 600V | |
| P-003 | XFMR-1 | BASIN LIGHTING PANEL LP-1 | 1 | 1-1/4" | SEE NOTE 1 | (4) - #6 AWG | #8 AWG | XHHW-2 | 600V | |
| P-004 | MCC-3 | PP-1 | 1 | 1-1/12" | SEE NOTE 1 | (3)-#1/0 AWG | #6 AWG | XHHW-2 | 600V | |
| P-005 | PP-1 | BASINS 1-2 SLUDGE COLLECTOR DRIVE PANELS | 1 | 1-1/12" | SEE NOTE 1 | (12) - #8AWG | #12 AWG | XHHW-2 | 600V | MOUNTED TO EXTERIOR OF CATTLECHUTE-CONDUIT CONTAINS CIRCUITS FOR FOUR SLUDGE COLLECTOR PANELS |
| P-006 | PP-1 | BASINS 3-4 SOUTH SLUDGE COLLECTOR DRIVE PANELS | 1 | 1-1/12" | SEE NOTE 1 | (12) - #8AWG | #12 AWG | XHHW-2 | 600V | MOUNTED TO EXTERIOR OF CATTLECHUTE-CONDUIT CONTAINS CIRCUITS FOR FOUR SLUDGE COLLECTOR PANELS |
| P-007 | PP-1 | INFLUENT VALVES 1 AND 2 | 1 | 1" | SEE NOTE 1 | (6) - #10AWG | #10 AWG | XHHW-2 | 600V | CONDUIT CONTAINS CIRCUITS FOR TWO INFLUENT VALVES |
| P-008 | PP-1 | INFLUENT VALVES 3 AND 4 | 1 | 1" | SEE NOTE 1 | (6) - #10AWG | #10 AWG | XHHW-2 | 600V | CONDUIT CONTAINS CIRCUITS FOR |
| P-009 | PP-1 | XFMR-2 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-010 | PP-1 | EFFLUENT VALVES 1 AND 2 | 1 | 1-1/12" | SEE NOTE 1 | (6) - #10AWG | #10 AWG | XHHW-2 | 600V | CONDUIT CONTAINS CIRCUITS FOR TWO EFFLUENT VALVES |
| P-011 | PP-1 | EFFLUENT VALVES 3 AND 4 | 1 | 1" | SEE NOTE 1 | (6) - #10AWG | #10 AWG | XHHW-2 | 600V | CONDUIT CONTAINS CIRCUITS FOR TWO EFFLUENT VALVES |
| P-012 | XFMR-2 | PP-2 | 1 | 1" | SEE NOTE 1 | (4) #8 AWG | #10 AWG | XHHW-2 | 600V | |
| P-013 | PP-2 | EFFLUENT VALVES 1 AND 2 INSTRUMENTS | 1 | 3/4" | SEE NOTE 1 | (6) #12 AWG | #12 AWG | XHHW-2 | 600V | |
| P-014 | PP-2 | EFFLUENT VALVES 3 AND 4 INSTRUMENTS | 1 | 3/4" | SEE NOTE 1 | (6) #12 AWG | #12 AWG | XHHW-2 | 600V | |
| P-015 | PP-2 | BASINS 1-4 INFLUENT/EFFLUENT CONTROL PANEL | 1 | 3/4" | SEE NOTE 1 | (3) #12 AWG | #12 AWG | XHHW-2 | 600V | |
| P-016 | FLOCULATOR DRIVE FEEDER CABINET | BASIN 1 FLOCULATOR PANEL | 1 | 1" | SEE NOTE 1 | (3) #4 AWG | #8 AWG | XHHW-2 | 600V | |
| P-017 | FLOCULATOR DRIVE FEEDER CABINET | BASIN 2 FLOCULATOR PANEL | 1 | 1" | SEE NOTE 1 | (3) #4 AWG | #8 AWG | XHHW-2 | 600V | |
| P-018 | FLOCULATOR DRIVE FEEDER CABINET | BASIN 3 FLOCULATOR PANEL | 1 | 1" | SEE NOTE 1 | (3) #4 AWG | #8 AWG | XHHW-2 | 600V | |
| P-019 | FLOCULATOR DRIVE FEEDER CABINET | BASIN 4 FLOCULATOR PANEL | 1 | 1" | SEE NOTE 1 | (3) #4 AWG | #8 AWG | XHHW-2 | 600V | |
| P-020 | PP-1 | XFMR-3 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-021 | XFMR-3 | PP-3 | 1 | 1" | SEE NOTE 1 | (4) #8 AWG | #10 AWG | XHHW-2 | 600V | |
| P-022 | MP-1 | EXHAUST FAN RECEPTACLE GROUP 1 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-023 | MP-1 | EXHAUST FAN RECEPTACLE GROUP 2 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-024 | MP-1 | EXHAUST FAN RECEPTACLE GROUP 3 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-025 | MP-1 | EXHAUST FAN RECEPTACLE GROUP 4 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |
| P-026 | MP-1 | EXHAUST FAN RECEPTACLE GROUP 5 | 1 | 3/4" | SEE NOTE 1 | (3) #10 AWG | #10 AWG | XHHW-2 | 600V | |

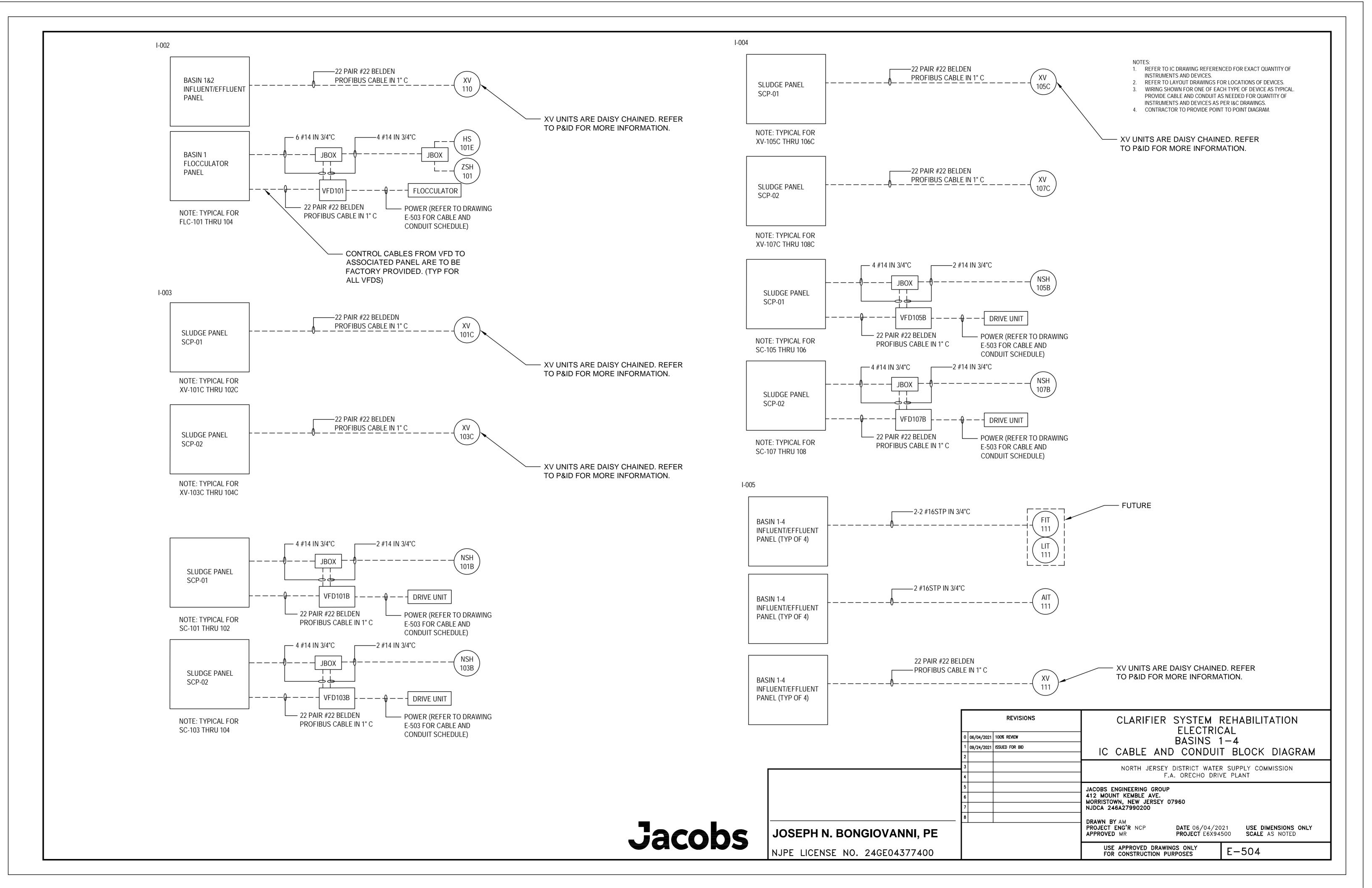
| | | | | COMMUN | NICATION CABLE/CONDU | IIT SCHEDULE | | | |
|-------------|---|--|----------|---------|----------------------|------------------------|------------|-------|--|
| CONDUITNO | | | | CONDUIT | | | | | |
| CONDUIT NO. | FROM | то | QUANTITY | SIZE | TYPE | NUMBER & TYPE | INSULATION | VOLTS | REMARKS |
| C-001 | NETWORK SWITCH | DRIVE GALLERY COMM JUNCTION BOX | 1 | 1" | SEE NOTE 1 | (4) 12 STRAND SM FIBER | | | FOR BASIN FLOCCULATOR PANELS |
| C-002 | NETWORK SWITCH | BASIN INFLUENT/EFFLUENT CONTROL PANEL | 1 | 3/4" | SEE NOTE 1 | (1) 12 STRAND SM FIBER | | | |
| C-003 | BASINS 1-4 INFLUENT/EFFLUENT CONTROL PANEL | EFFLUENT VALVES 1&2 | 1 | 3/4" | SEE NOTE 1 | (1) PROFIBUS | | | (1) PROFIBUS CABLE IS DAISY CHAINEI TO FEED ALL INFLUENT/EFFLUENT VALVES |
| C-004 | EFFLUENT VALVES 1&2 | INFLUENT VALVES 1&2 | 1 | 3/4" | SEE NOTE 1 | (1) PROFIBUS | | | (1) PROFIBUS CABLE IS DAISY CHAINEI TO FEED ALL INFLUENT/EFFLUENT VALVES |
| C-005 | INFLUENT VALVES 1&2 | INFLUENT VALVES 3&4 | 1 | 3/4" | SEE NOTE 1 | (1) PROFIBUS | | | (1) PROFIBUS CABLE IS DAISY CHAINEI TO FEED ALL INFLUENT/EFFLUENT VALVES |
| C-006 | INFLUENT VALVES 3&4 | EFFLUENT VALVES 3&4 | 1 | 3/4" | SEE NOTE 1 | (1) PROFIBUS | | | (1) PROFIBUS CABLE IS DAISY CHAINEI TO FEED ALL INFLUENT/EFFLUENT VALVES |
| C-007 | BASINS 1-2 SLUDGE COLLECTOR DRIVE PANELS | PIPE GALLERY COMM JUNCTION BOX | 4 | 1" | SEE NOTE 1 | (4) PROFIBUS | | | FOR SLUDGE VALVE ACTUATORS |
| C-008 | BASINS 3-4 SLUDGE COLLECTOR DRIVE PANELS | PIPE GALLERY COMM JUNCTION BOX | 4 | 1" | SEE NOTE 1 | (4) PROFIBUS | | | FOR SLUDGE VALVE ACTUATORS |
| C-009 | NETWORK SWITCH | BASINS 1-2 SLUDGE COLLECTOR DRIVE PANELS | 1 | 1" | SEE NOTE 1 | (4) 12 STRAND SM FIBER | | | |
| C-010 | NETWORK SWITCH | BASINS 3-4 SLUDGE COLLECTOR DRIVE PANELS | 1 | 1" | SEE NOTE 1 | (4) 12 STRAND SM FIBER | | | |

ELECTRICAL NOTES:

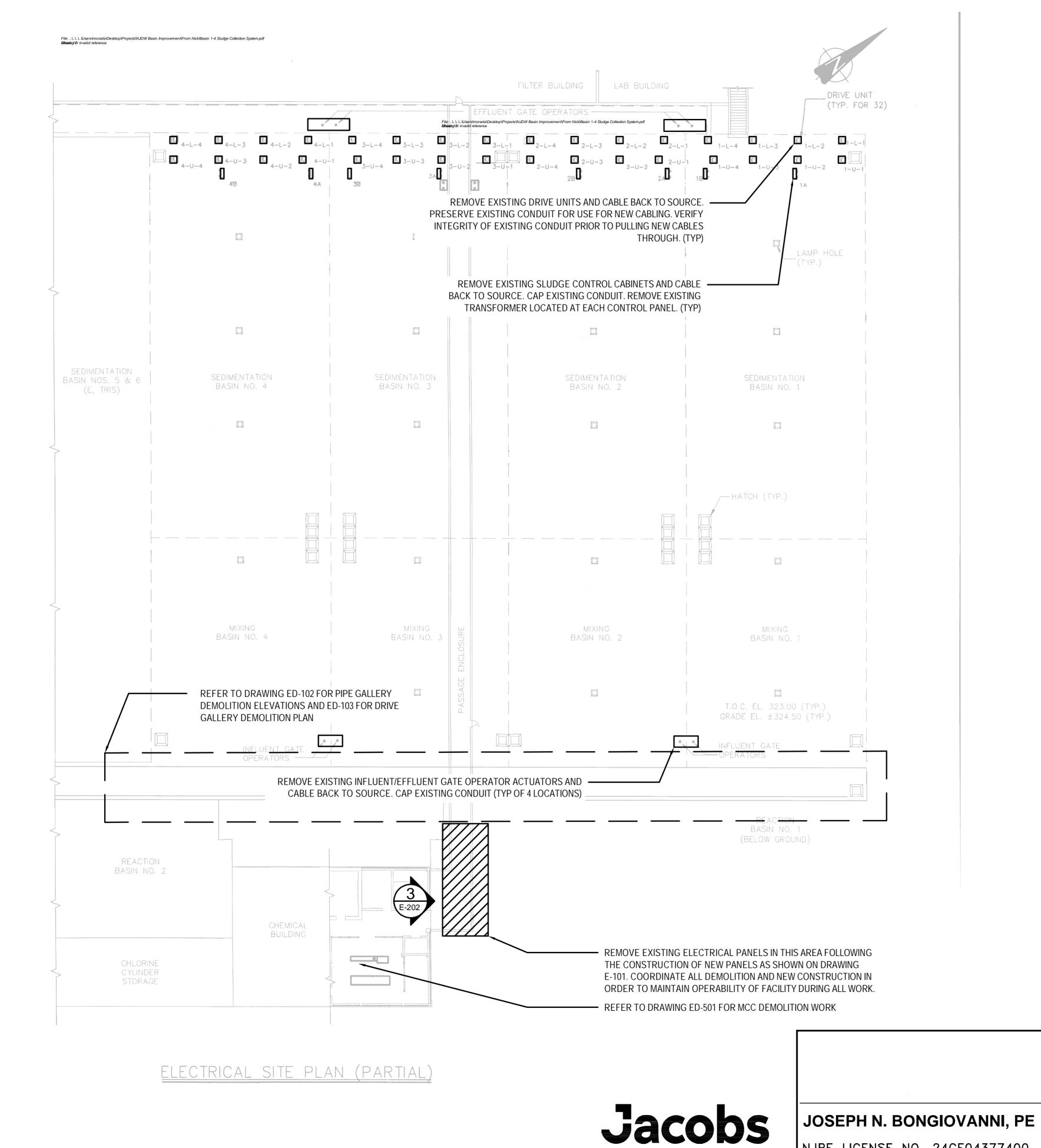
- REFER TO SPECIFICATION 260533 PART 2 SECTION 3.1 AND 3.2 FOR CONDUIT TYPE REQUIREMENTS FOR DIFFERENT LOCATIONS.
 REFER TO DRAWINGS I-010 AND I-011 FOR MORE INFORMATION REGARDING COMMUNICATION CABLING REQUIREMENTS.
 CONTRACTOR SHALL PROVIDE POINT TO POINT DIAGRAM.

| REVISIONS 0 12/07/2020 30% REVIEW | CLARIFIER SYSTEM REHABILITATION ELECTRICAL BASINS 1-4 |
|--|--|
| 1 03/17/2021 80% REVIEW 2 06/04/2021 100% REVIEW | CABLE/CONDUIT SCHEDULES |
| 3 09/24/2021 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT |
| 5 6 7 8 | JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY NCP |
| | PROJECT ENG'R NCP DATE 09/24/2021 APPROVED MR PROJECT E6X94500 SCALE AS NOTED |
| | use approved drawings only E-503 |
| | 0 12/07/2020 30% REVIEW 1 03/17/2021 80% REVIEW 2 06/04/2021 100% REVIEW |

Jacobs







ELECTRICAL DEMOLITION NOTES:

1. PRIOR TO ANY DEMOLITION WORK ENSURE THAT THE CIRCUITS BEING WORKED ON ARE DE-ENERGIZED

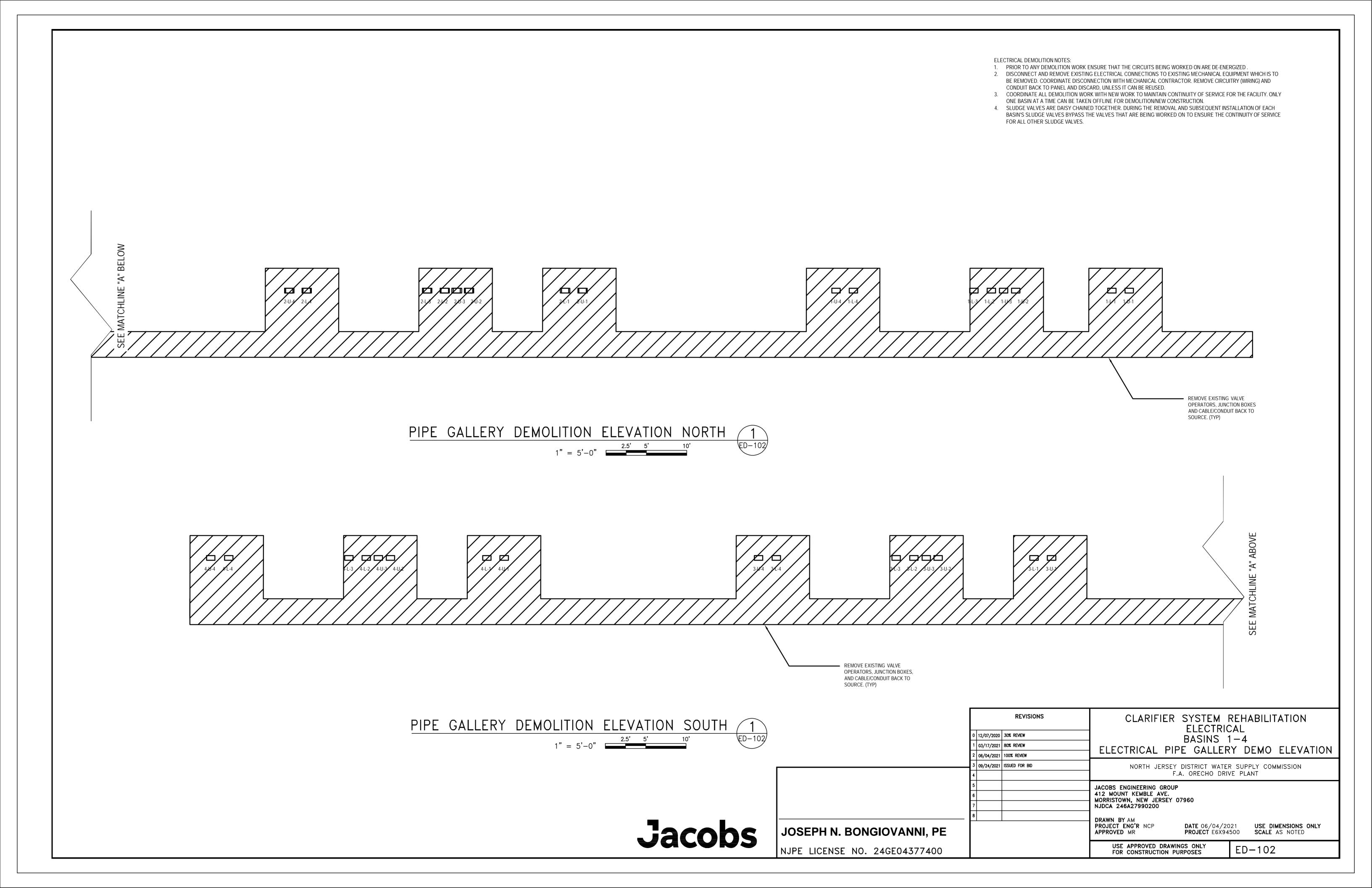
REMOVE ALL EXISTING EQUIPMENT AND FEEDERS ASSOCIATED WITH THE EXISTING SWITCHGEAR AND DISTRIBUTION INCLUDING DISCONNECT SWITCHES, CONTROL PANELS, JUNCTION BOXES AND ALL INTERCONNECTED CONTROL AND POWER WIRES BETWEEN THE DEVICES. ALL POWER AND CONTROL WIRES SHALL BE REMOVED BACK TO THE SOURCE. EXISTING EXPOSED CONDUIT TO BE REMOVED BACK TO ASSOCIATED WALL OR FLOOR WITH A 4" OFFSET. INTERIOR OF SUCH CONDUITS SHALL BE CLEANED AND CAPPED.

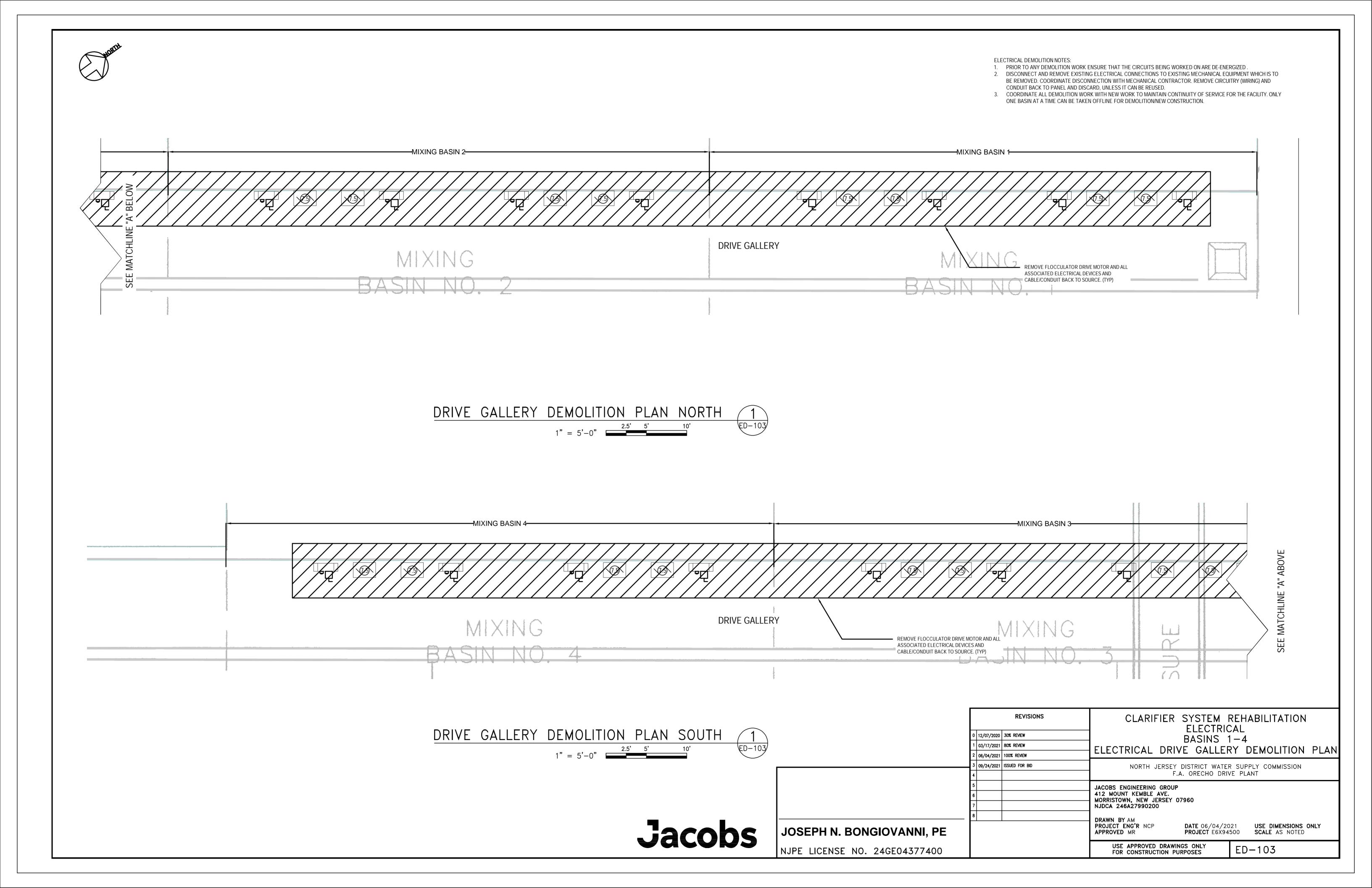
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED. COORDINATE DISCONNECTION WITH MECHANICAL CONTRACTOR. REMOVE CIRCUITRY (WIRING) AND CONDUIT BACK TO PANEL AND DISCARD, UNLESS IT CAN BE REUSED.

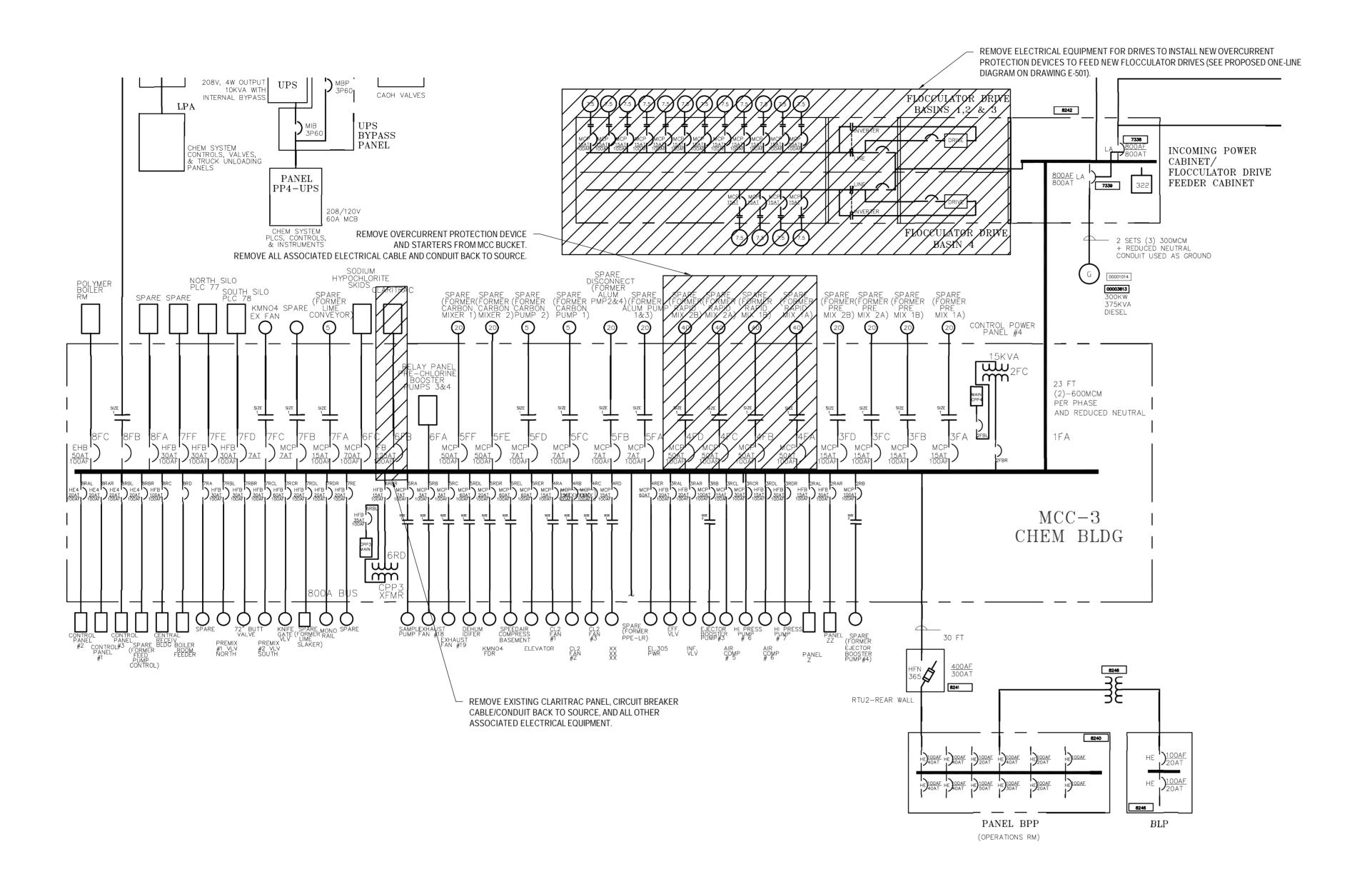
4. DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTIONS TO EXISTING ELECTRICAL SWITCHGEAR AND PANELS TO BE REMOVED. COORDINATE DISCONNECTION WITH EXISTING LOADS. REMOVE EXISTING FEEDER AND BRANCH CIRCUITRY (WIRING) AND CONDUIT TO PANEL AND DISCARD, UNLESS IT CAN BE REUSED. INSTALL NEW ELECTRICAL EQUIPMENT AS SHOWN ON NEW ELECTRICAL LAYOUT DRAWING.

| REVISIONS | CLARIFIER SYSTEM REHABILITATION ELECTRICAL | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|
| 0 12/07/2020 30% REVIEW | BASINS 1-4 | | | | | | |
| 1 03/17/2021 80% REVIEW | | | | | | | |
| 2 06/04/2021 100% REVIEW | DEMOLITION LAYOUT | | | | | | |
| 3 09/24/2021 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | | | | | |
| 4 | F.A. ORECHO DRIVE PLANT | | | | | | |
| 5 | JACOBS ENGINEERING GROUP | | | | | | |
| 6 | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | | | | | | |
| 7 | NJDCA 246A27990200 | | | | | | |
| 8 | DRAWN BY AM | | | | | | |
| | PROJECT ENG'R NCP APPROVED MR DATE 06/04/2021 PROJECT E6X94500 SCALE AS NOTED | | | | | | |
| | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES ED-101 | | | | | | |

NJPE LICENSE NO. 24GE04377400







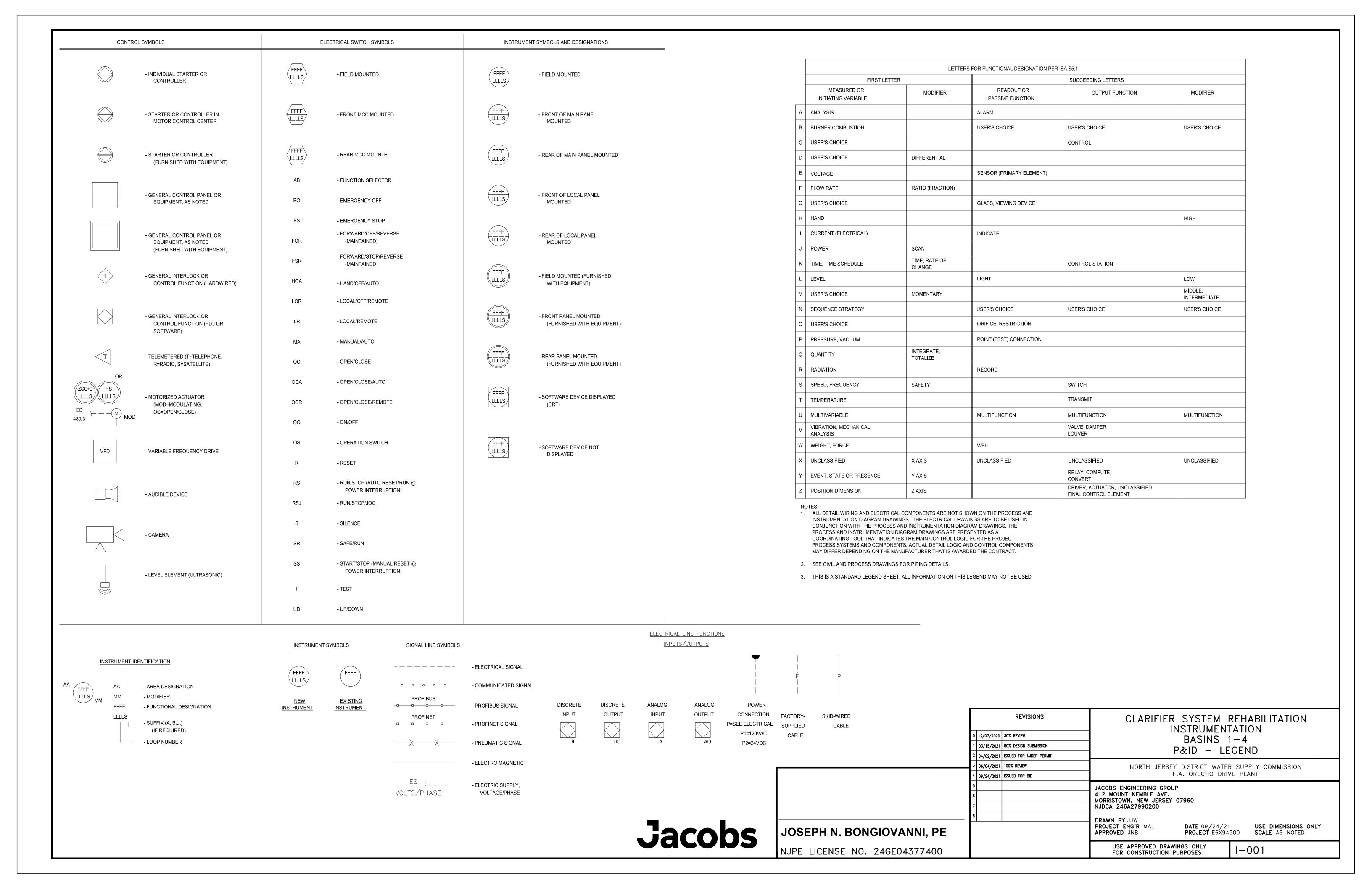
Jacobs

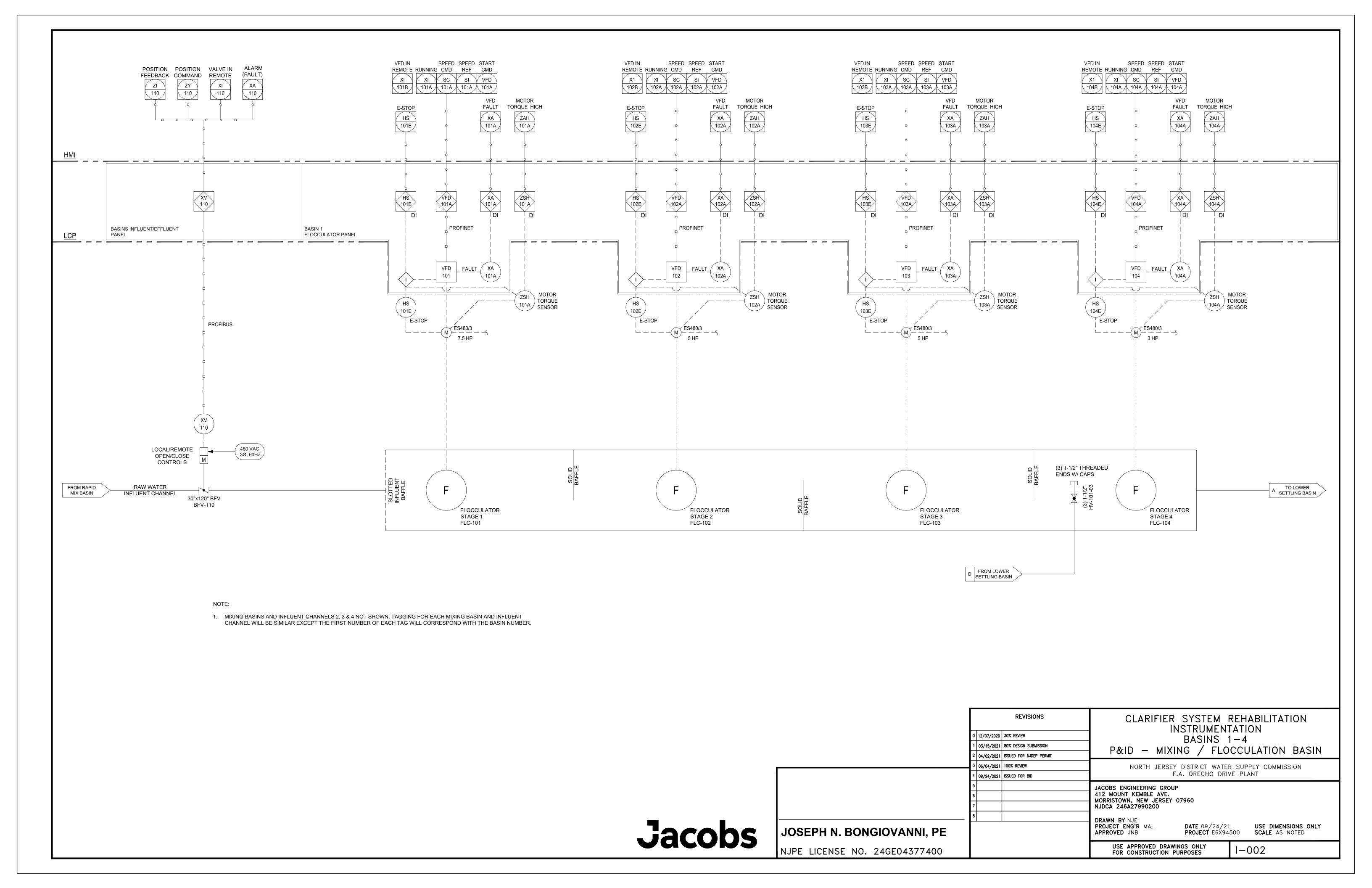
| NI, PE | JOSEPH N. BON |
|--------|------------------|
| 77400 | NJPE LICENSE NO. |
| | |

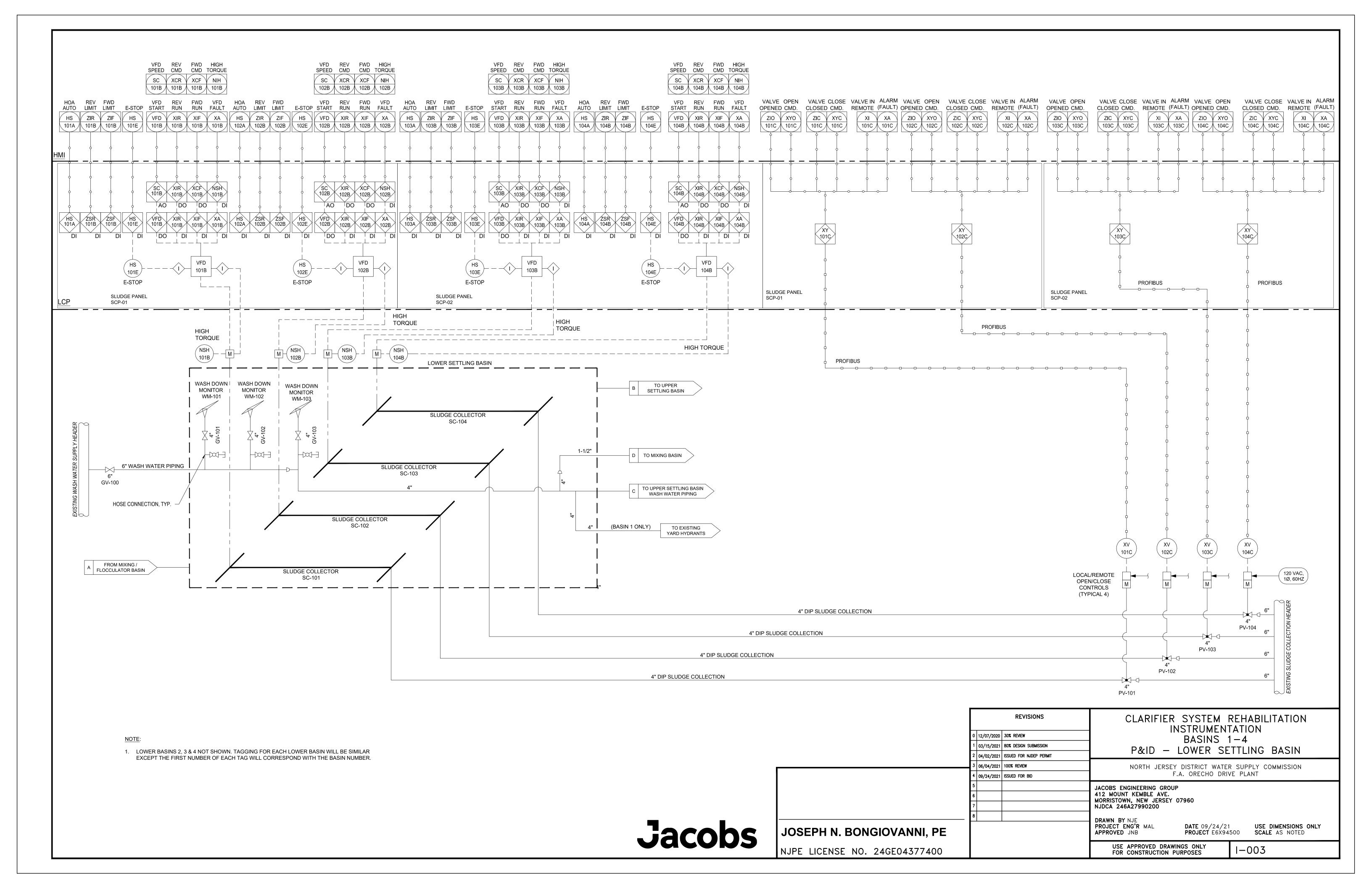
ELECTRICAL DEMOLITION NOTES:

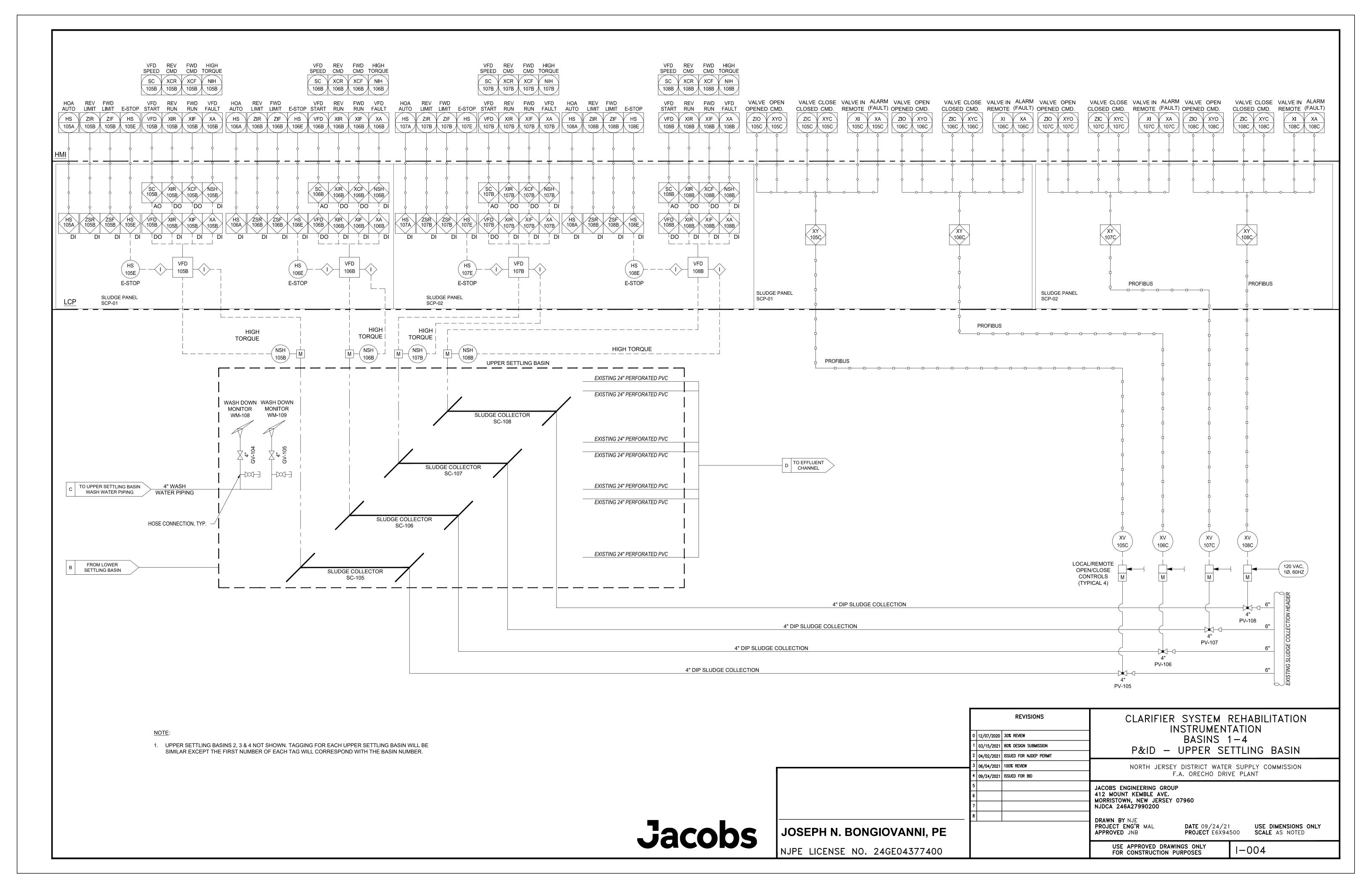
- DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED. COORDINATE DISCONNECTION WITH MECHANICAL CONTRACTOR. REMOVE CIRCUITRY (WIRING) AND CONDUIT BACK TO MCC AND DISCARD.
- COORDINATE ALL DEMOLITION WORK WITH NEW WORK TO MAINTAIN CONTINUITY OF SERVICE FOR THE FACILITY. ONLY
 ONE BASIN AT A TIME CAN BE TAKEN OFFLINE FOR DEMOLITION/NEW CONSTRUCTION.
- 3. COORDINATE DEMOLITION OF EXISTING EQUIPMENT AND ANY NECESSARY POWER OUTAGES WITH OWNER. WORK INVOLVING EXISTING EQUIPMENT/PANELS MAY NEED TO BE PERFORMED AT OFF HOURS TO MAINTAIN FACILITY OPERATION

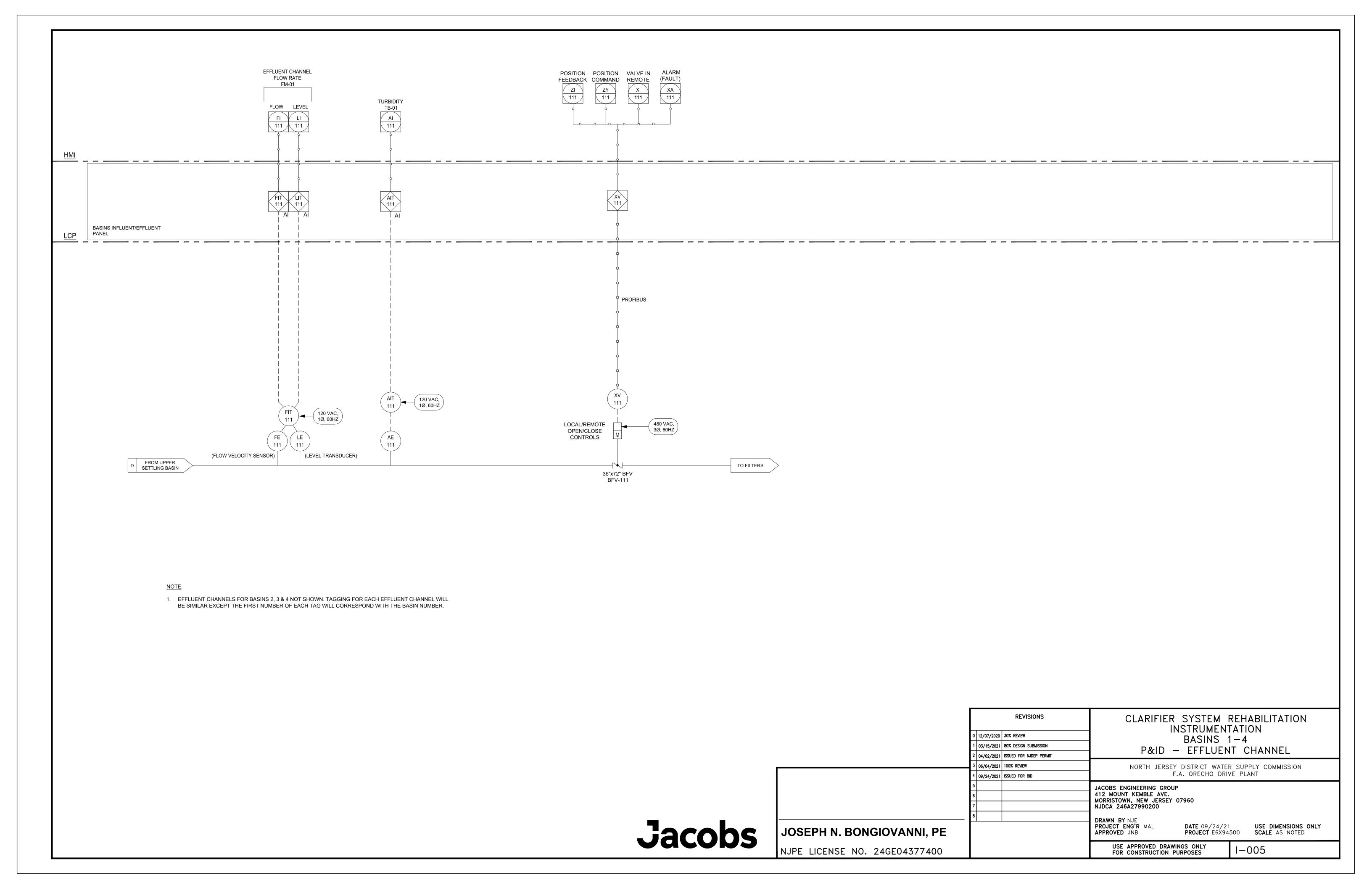
| | REVISIONS | CLARIFIER SYSTEM ELECTRIC | |
|-------------|-------------------|--|---------------------------------------|
| 0 12/07/202 | 20 30% REVIEW | BASINS | -· · - |
| 1 03/17/202 | 21 80% REVIEW | ONE LINE DIAG | |
| 2 06/04/202 | 21 100% REVIEW | ONE LINE DIAG | NAM DEMO |
| 3 09/24/202 | 21 ISSUED FOR BID | NORTH JERSEY DISTRICT WATER | R SUPPLY COMMISSION |
| 4 | | F.A. ORECHO DRIV | VE PLANT |
| 5 | | JACOBS ENGINEERING GROUP | |
| 6 | | 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 | |
| 7 | | NJDCA 246A27990200 | |
| 8 | | DRAWN BY NCP | |
| | | PROJECT ENG'R NCP DATE 06/04/20 | USE DIMENSIONS ONLY SCALE AS NOTED |
| | | USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES | ED-501 |

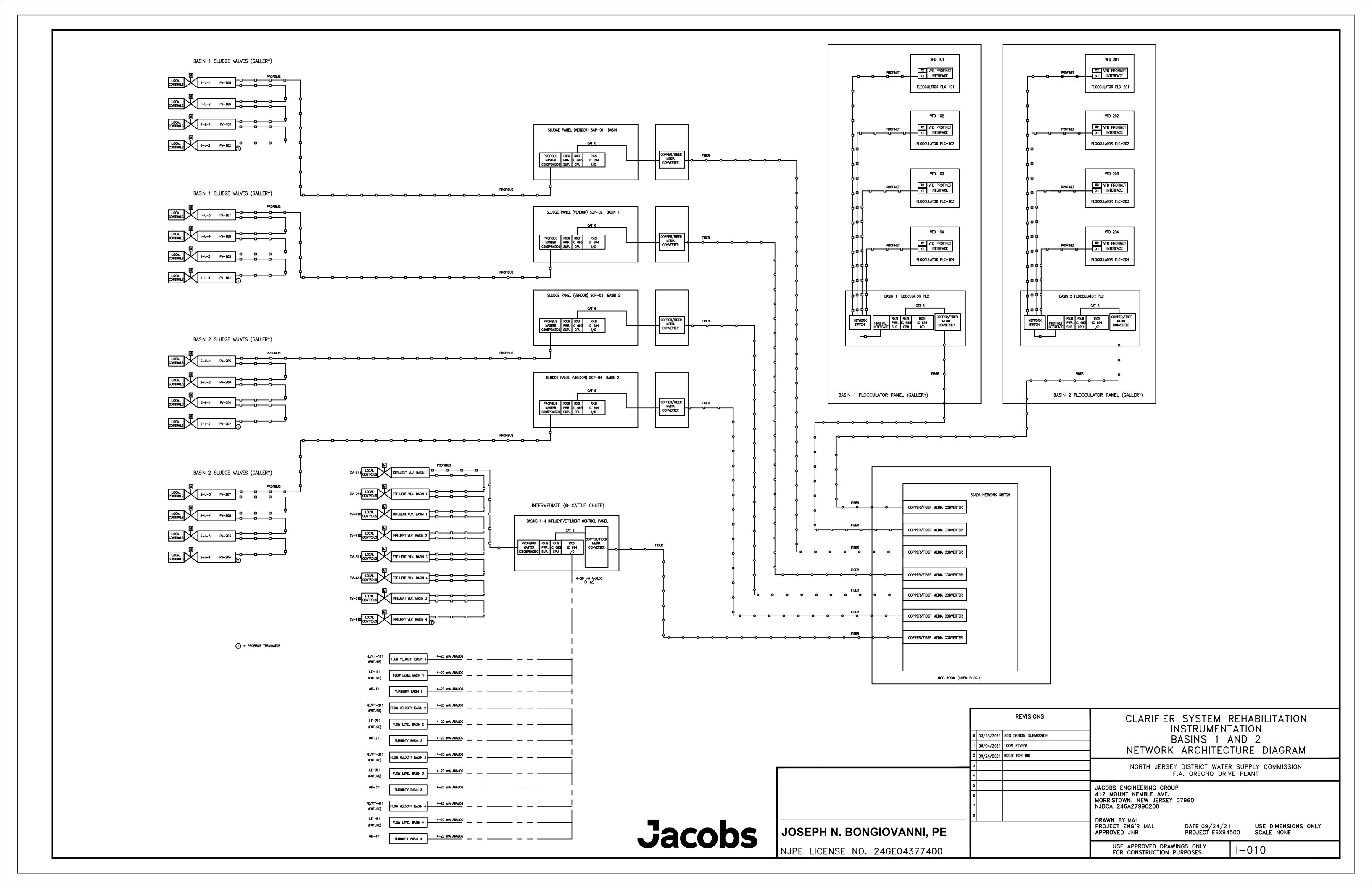


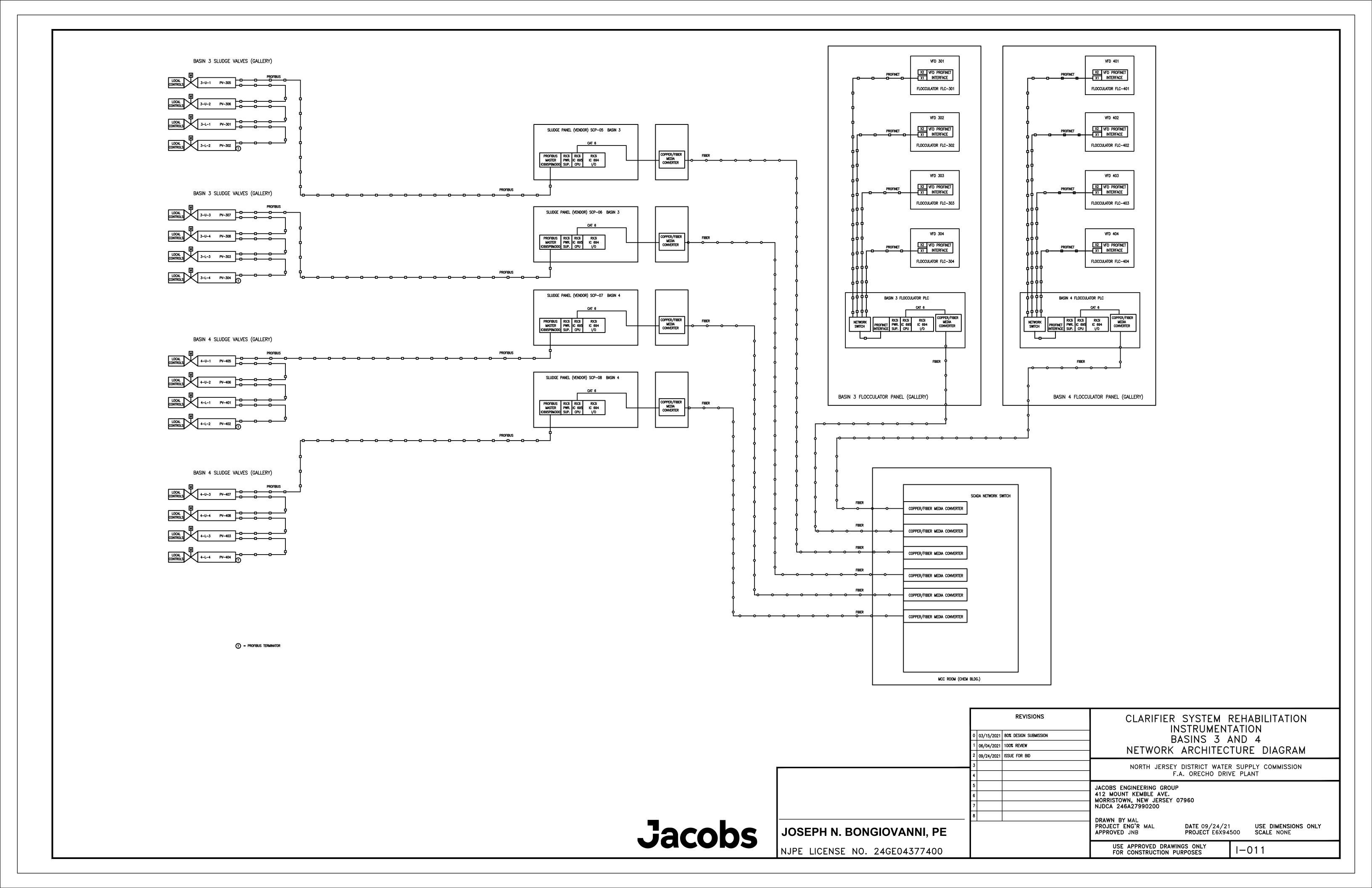


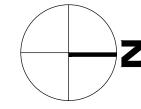












1. BAY WIDTH VARIES BETWEEN UPPER AND

LOWER SEDIMENTATION BASINS.

2. TYPICAL FOR 24 DRIVE UNIT LOCATIONS.

3. 1-L-1, 1-L-2, 1-L-3, 1-U-1, 1-U-2, 1-U-3 AND

4 ARE MIRRORED.

3/4" CHAMFER (TYP.)

8" EXIST. — CONC. SLAB

VARIES —

FILLER

ROUGHEN SURFACE AND APPLY EPOXY BONDING COMPOUND

3-L-1, 3-L-2, 3-L-3, 3-U-1, 3-U-2, 3-U-3 ARE SHOWN.

CABLE TRACK TAG NUMBERS FOR BASINS 2 AND

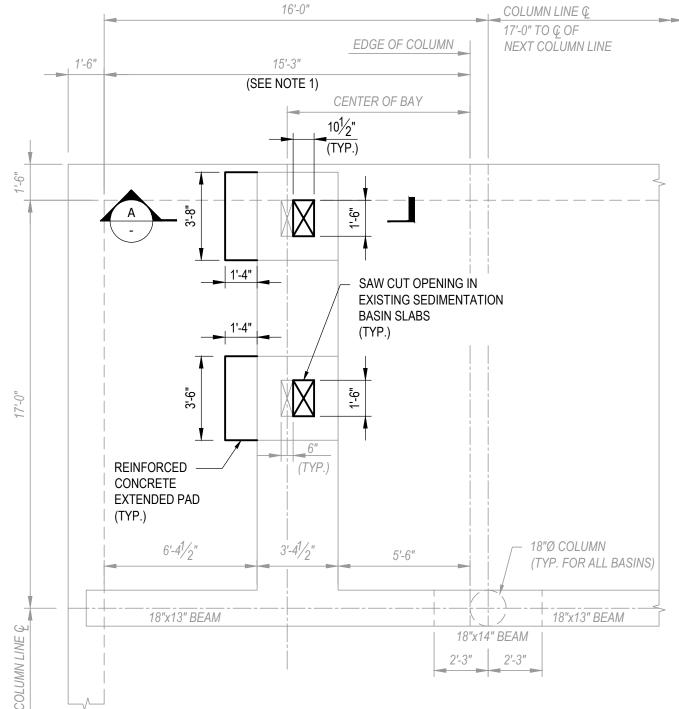
TOP AND BOTTOM

1" FOAM FILLER -

MIDDLE SLAB

1'-4"

- #6 @ 12" MAX.



PARTIAL PLAN 1

/ 5 $\frac{1}{4}$ " EMBEDMENT DEPTH (TYP.)

SCALE: 1/4"=1'-0"

3#6 TOP & BOT W/

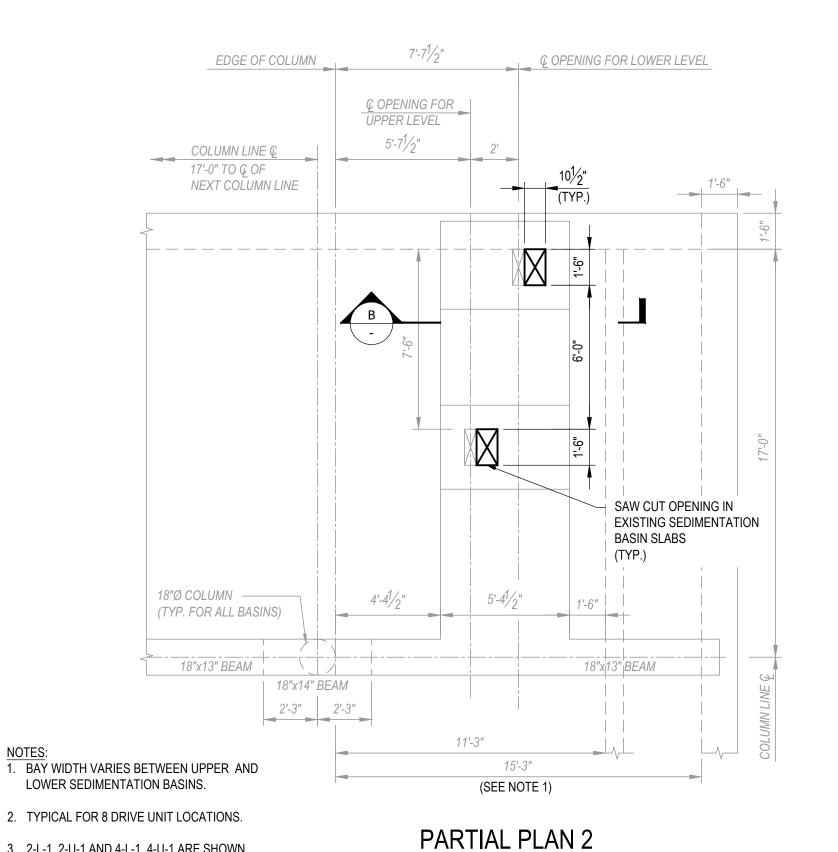
#4 STIRR @ 12"

– #4 STIRR. @ 12"

SAW CUT OPENING IN EXISTING

SEDIMENTATION BASIN SLAB

SEE PLAN FOR SIZE



SCALE: 1/4"=1'-0"

16 #6 TOP & BOT W/ #4 STIRR @ 12" 8" EXIST. — CONC. SLAB - 1" FOAM FILLER SAW CUT OPENING IN EXISTING SEDIMENTATION BASIN SLAB SEE PLAN FOR SIZE VARIES -9" TO 10"

EXIST. CONC.

MIDDLE SLAB

 $10\frac{1}{2}$ "

 $10\frac{1}{2}$ "

SECTION SCALE: 1"=1'-0"

3. 2-L-1, 2-U-1 AND 4-L-1, 4-U-1 ARE SHOWN.

1-U-4, 3-L-4 AND 3-U-4 ARE MIRRORED.

CABLE TRACK DRIVE TAG NUMBERS FOR 1-L-4,

Jacobs

LUIS S. DUARTE, PE NJPE LICENSE NO. 24GE04642900

GENERAL NOTES:

- 1. CABLE TRACK DRIVE UNIT FRAME AND ANCHORAGE TO BE PROVIDED BY THE MANUFACTURER.
- 2. ALL EQUIPMENT PADS, SUPPORTS, AND GEOMETRY SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON FINAL MANUFACTURER SUBMITTAL.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING DIMENSIONS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 4. CONCRETE F'C = 4,000 PSI @ 28 DAYS.
- 5. UNLESS NOTED OTHERWISE REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM 615 GRADE 60
- 6. ROUGHEN TO AN AMPLITUDE OF 1/4" AND CLEAN ALL EXISTING CONCRETE SURFACES WHICH WILL BE IN CONTACT WITH NEW CONCRETE AND COAT WITH SIKADUR 32, HI-MOD EPOXY BONDING COMPOUND BY SIKA CORPORATION (OR APPROVED EQUAL).
- 7. ADJUST REINFORCEMENT BAR SPACING AS NECESSARY TO AVOID POTENTIAL CONFLICTS WITH EXISTING
- 8. ADHESIVE ANCHOR SYSTEM FOR DOWELS AND ANCHOR BOLTS SHALL BE HILTI HIT-HY 200 (OR APPROVED EQUAL).
- 9. EPOXY GROUT SHALL BE USED IN SUBMERGED AREAS AND NON-SHRINK CEMENTITIOUS GROUT TO BE USED IN DRY AREAS ACCORDING TO SECTION 03 62 00B GROUTING SPECIFICATIONS.
- 10. WELDING INSPECTION SHALL VERIFY THAT ALL WELDS AND WELDING PROCEDURES MEET THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY (AWS) D1.6/D1.6M, STRUCTURAL WELDING CODE - STAINLESS STEEL.
- 11. PIPE RAILINGS, ACCESORIES, INCLUDING RAILING COMPONENTS, FLANGES, WALL BRACKETS, ANCHOR PLATES SHALL CONFORM TO AISI TYPE 316L. STAINLESS STEEL.
- 12. ACCESS TO INTERIOR BASINS ARE LIMITED TO EXISTING TOPSIDE 3'-0" X 3'-0" ACCESS ROOF HATCHES AS SHOWN ON DRAWINGS, AS WELL AS PROPOSED SUBMARINE DOOR INSTALLATION. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DELIVERY OF MATERIALS THROUGH LIMITED ACCESS POINTS THROUGHOUT THE FACILITY.

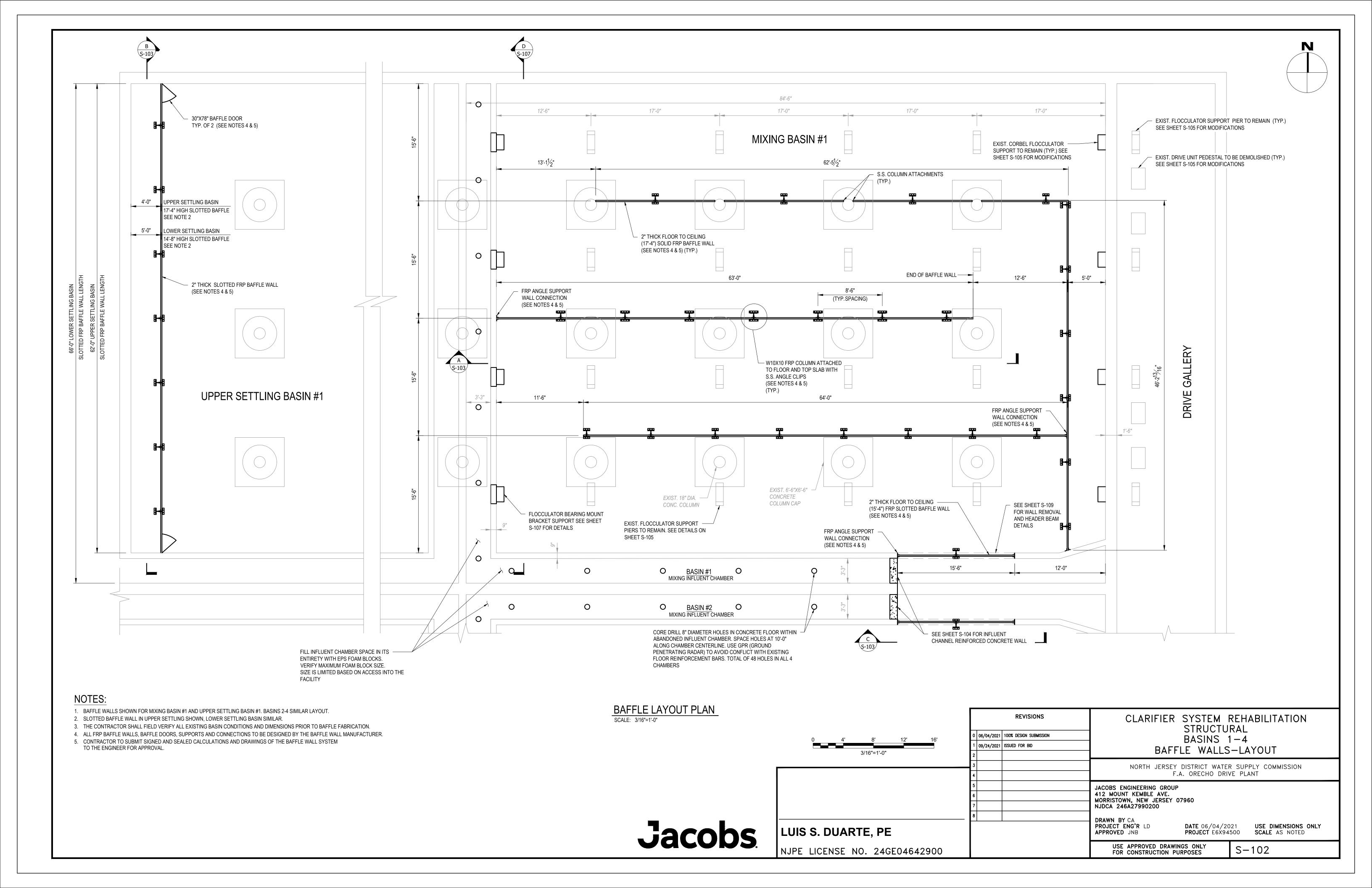
ABBREVIATIONS:

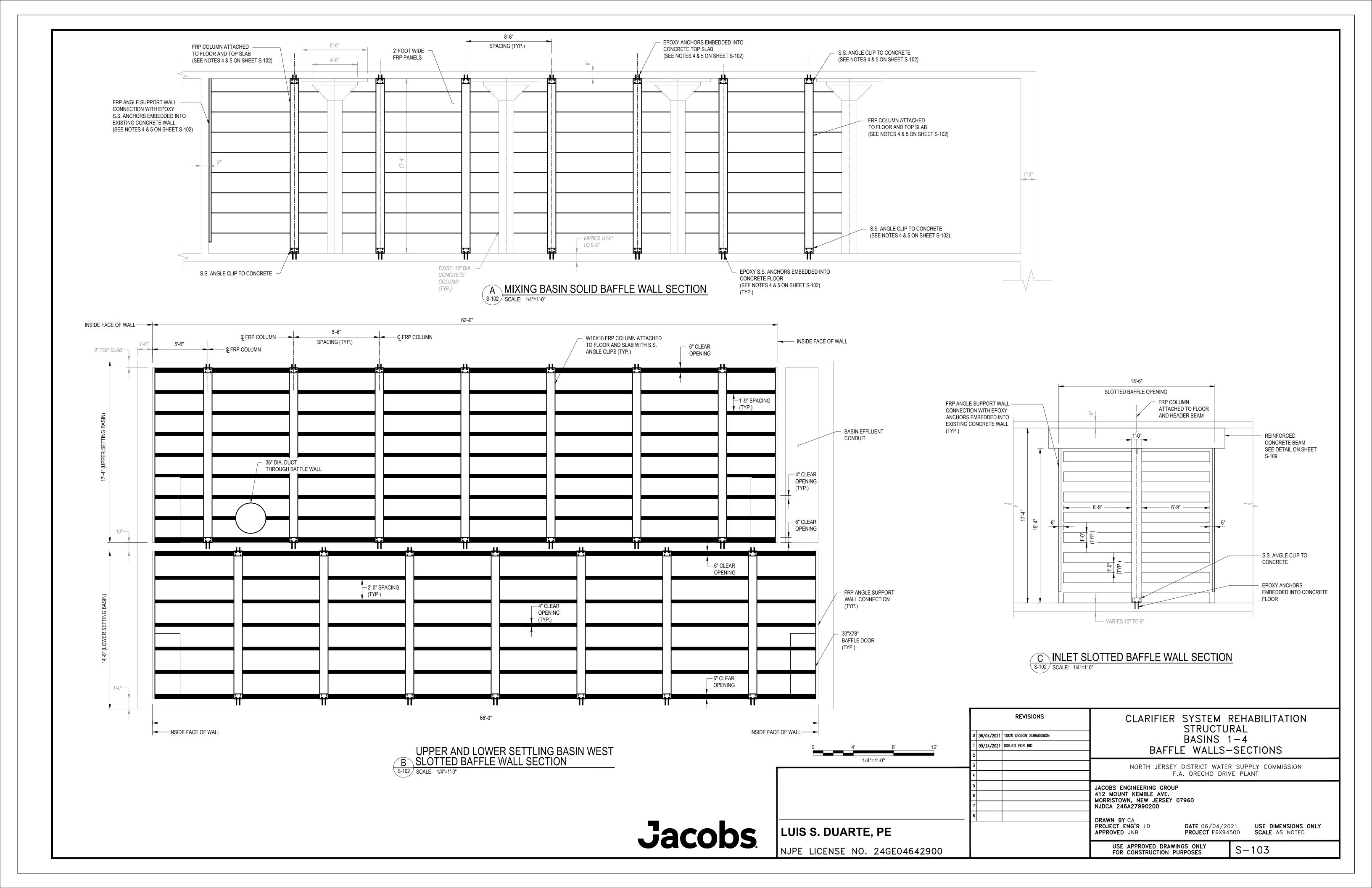
- FIBER REINFORCED POLYMER
- STAINLESS STEEL
- **EACH FACE** E.F.
- **EXISTING** EXIST.
- CONC. CONCRETE
- CLR. CLEAR
- **TYPICAL** TYP.
- DIAMETER
- EXPANDED POLYSTYRENE
- REINF. REINFORCED
- **OUTSIDE DIAMETER**

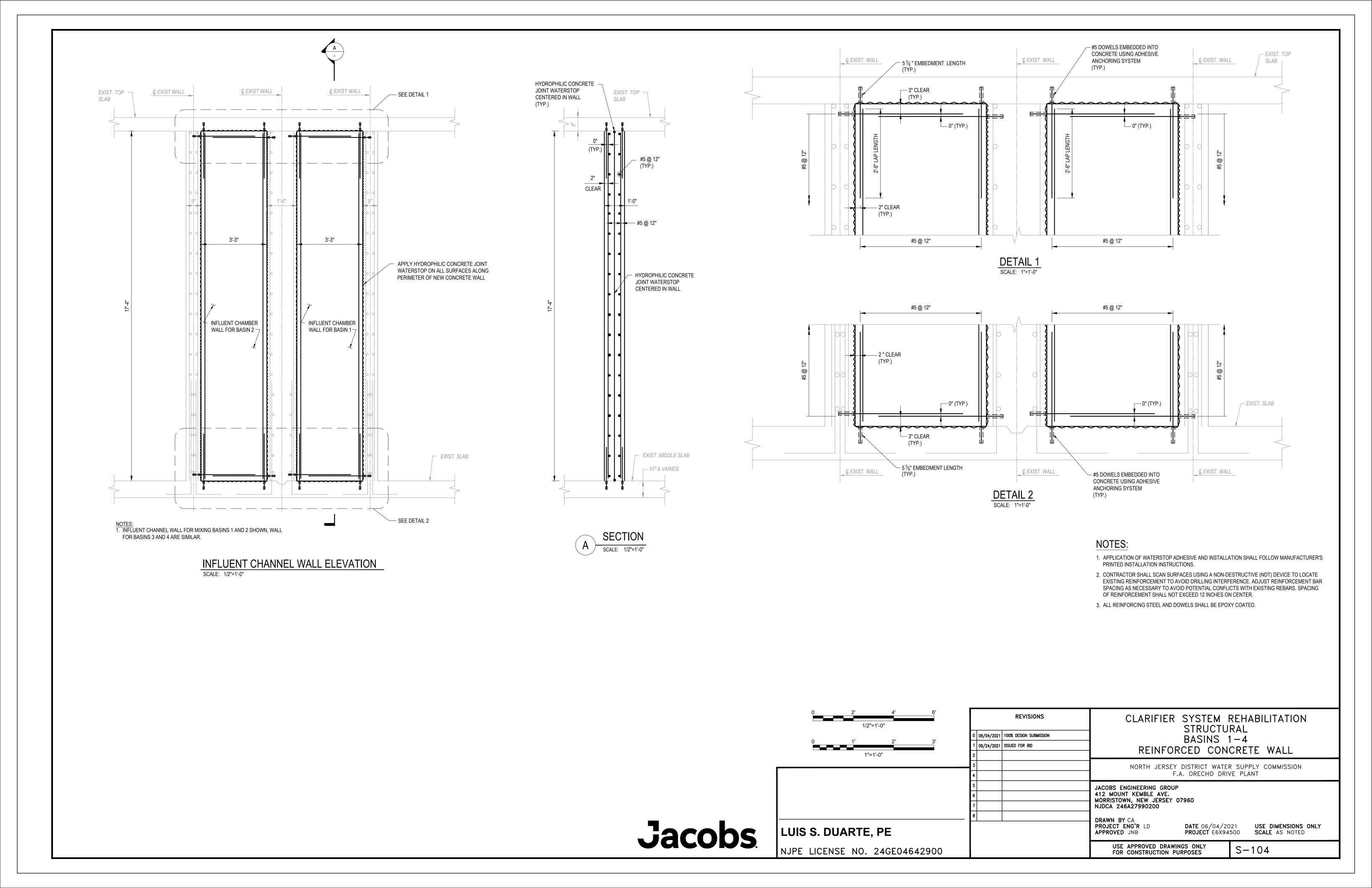
LEGEND:

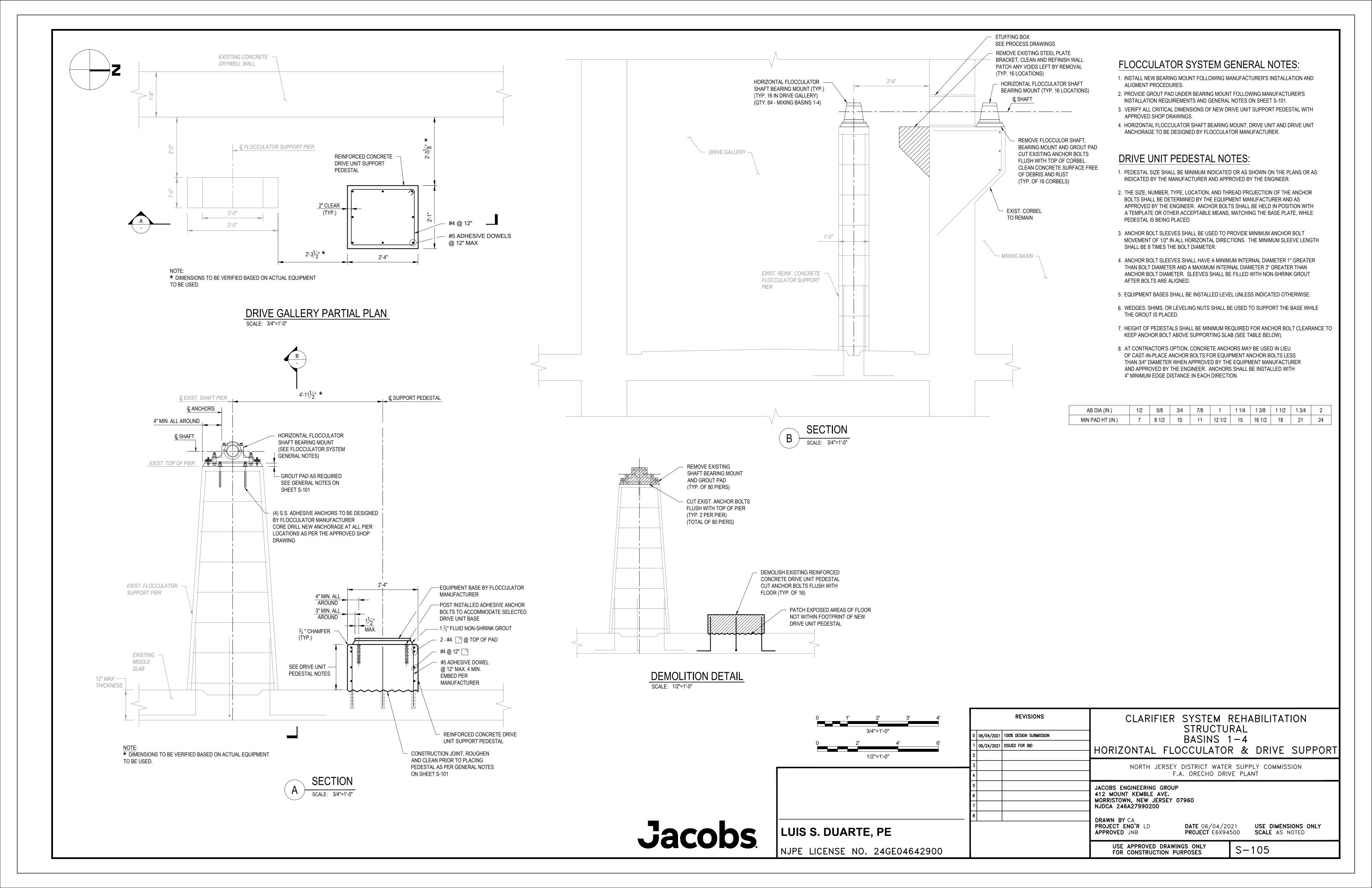


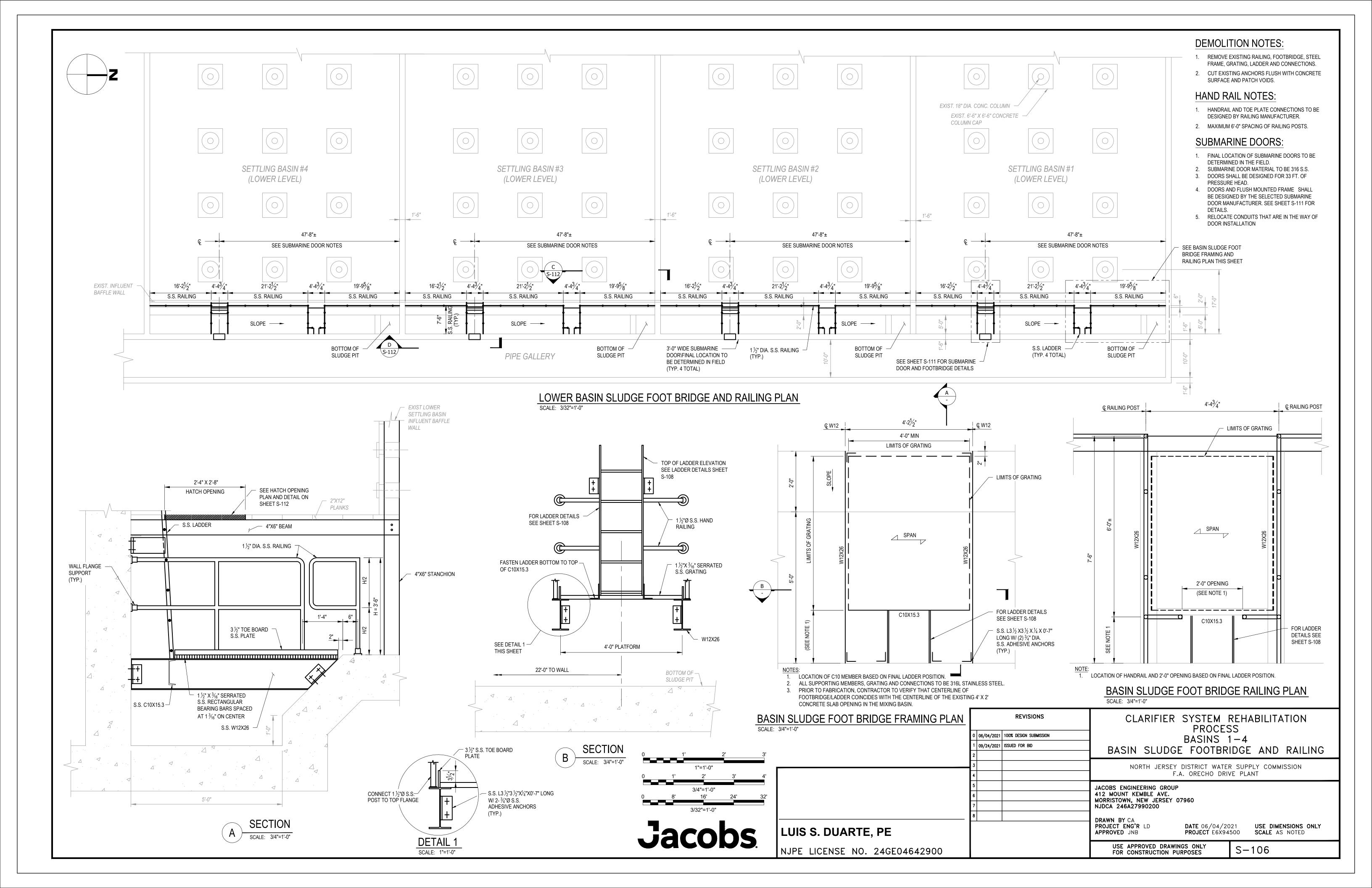
REVISIONS CLARIFIER SYSTEM REHABILITATION STRUCTURAL 0 06/04/2021 100% DESIGN SUBMISSION BASINS 1-4 CABLE TRACK DRIVE 09/24/2021 ISSUED FOR BID MODIFICATIONS AND GENERAL NOTES NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION F.A. ORECHO DRIVE PLANT JACOBS ENGINEERING GROUP 412 MOUNT KEMBLE AVE. MORRISTOWN, NEW JERSEY 07960 NJDCA 246A27990200 DRAWN BY CA USE DIMENSIONS ONLY SCALE AS NOTED **DATE** 06/04/2021 **PROJECT** E6X94500 PROJECT ENG'R LD APPROVED JNB USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES S-101

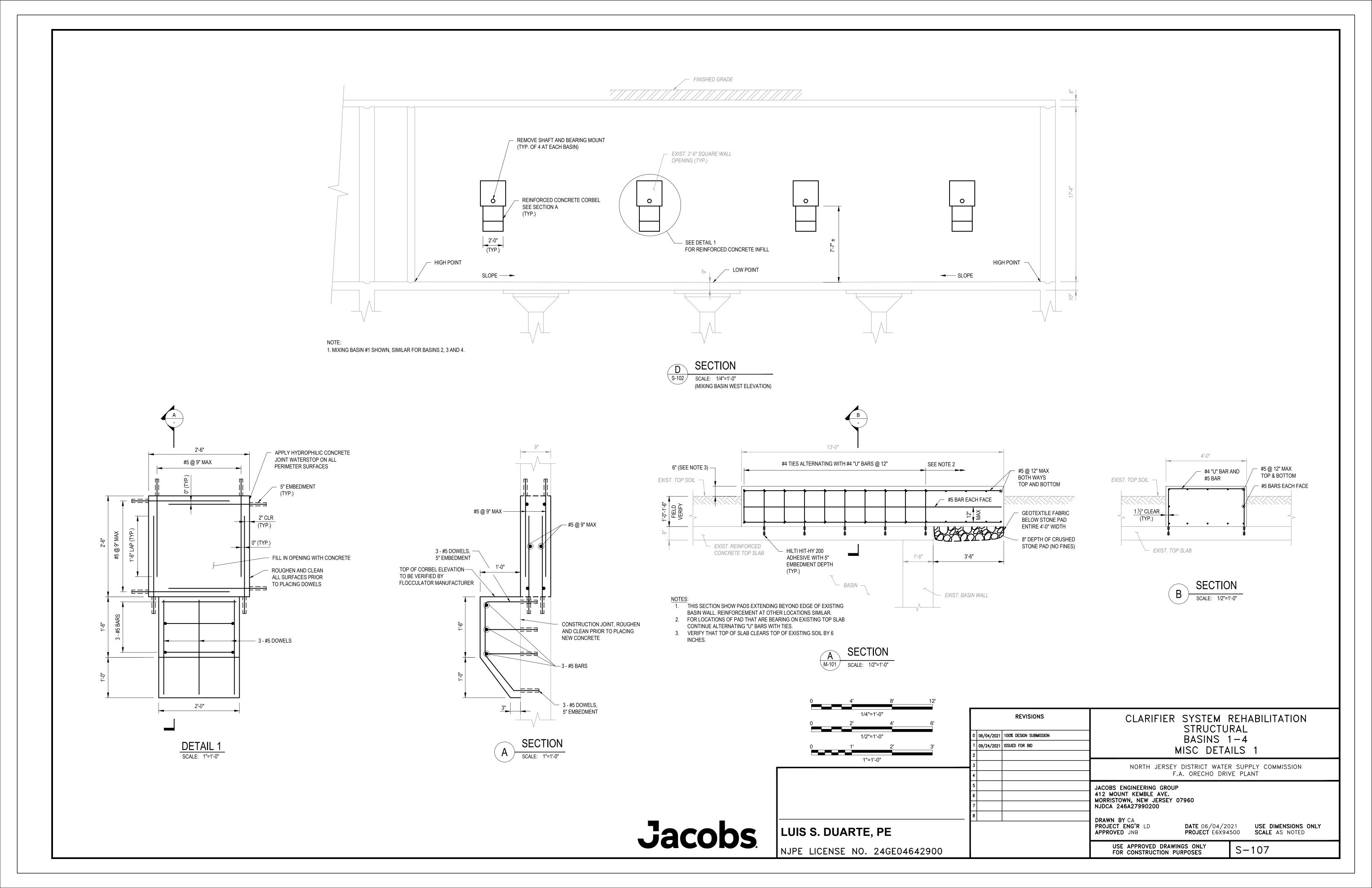


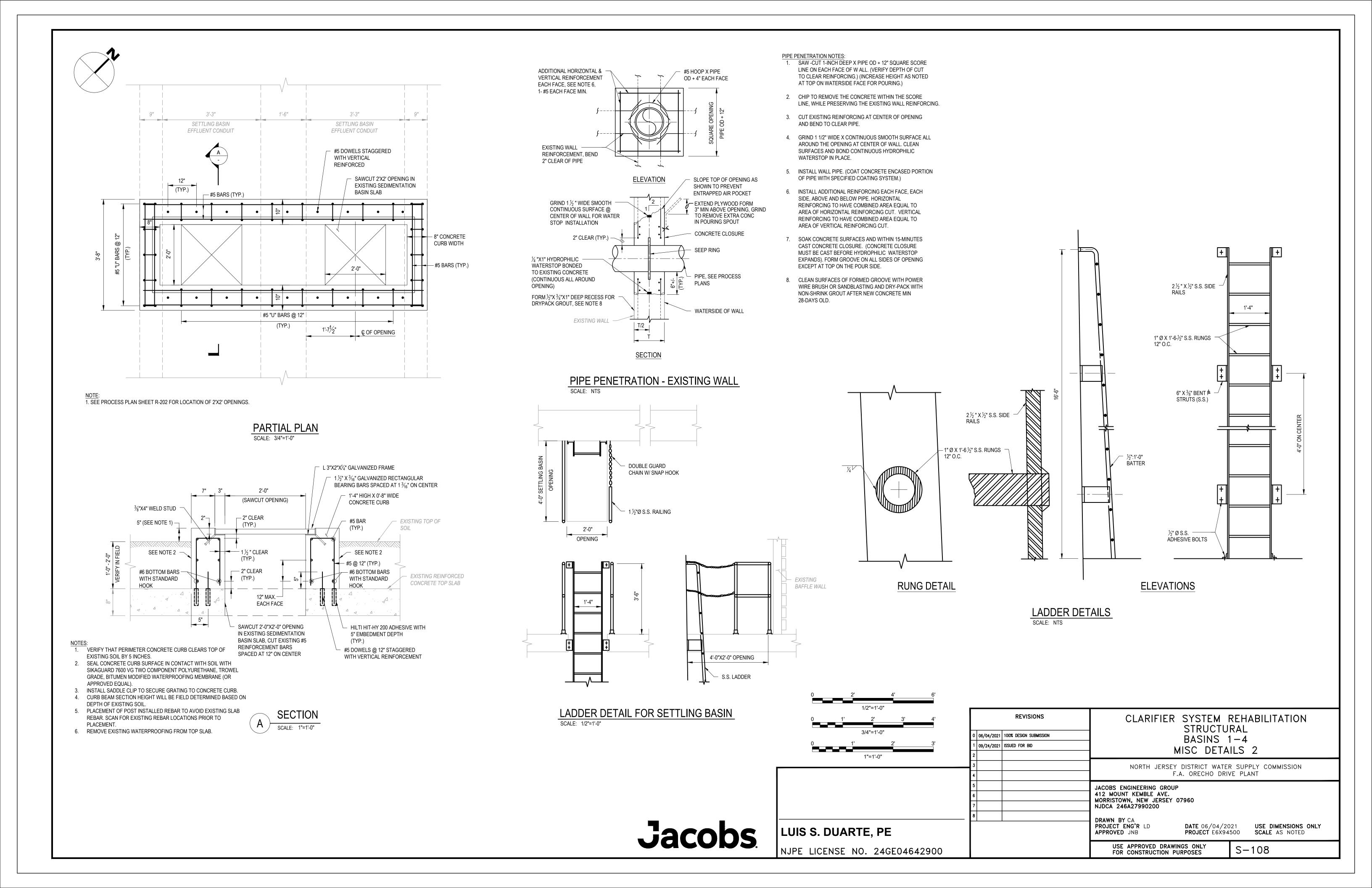


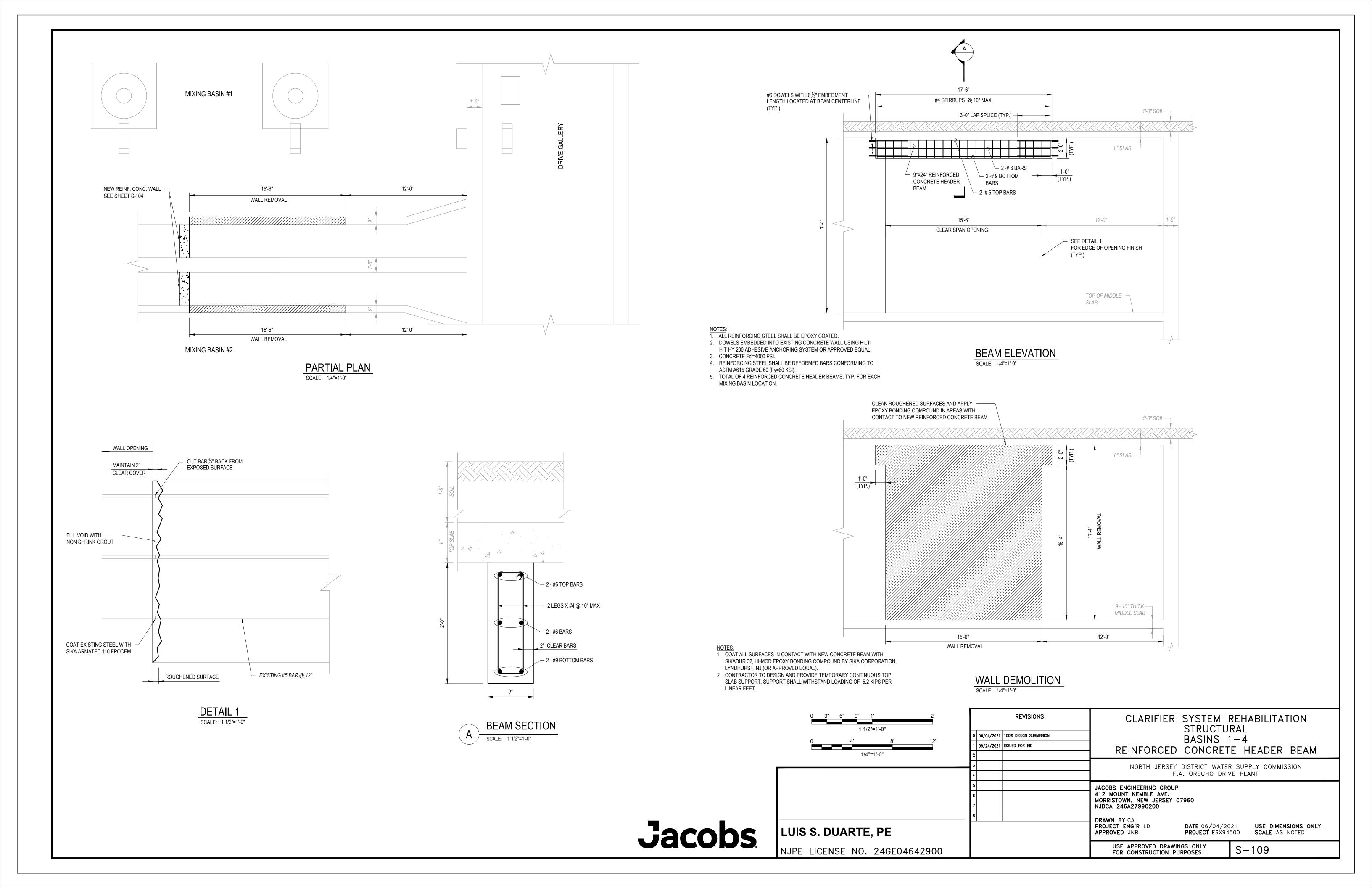


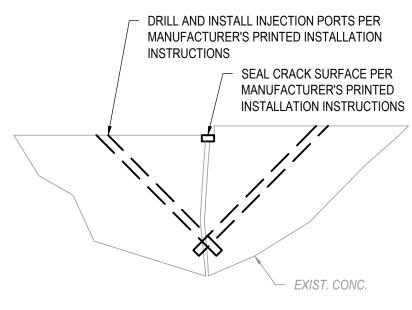






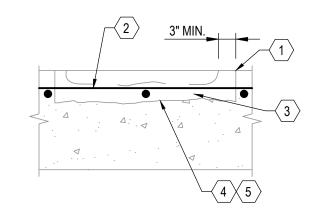






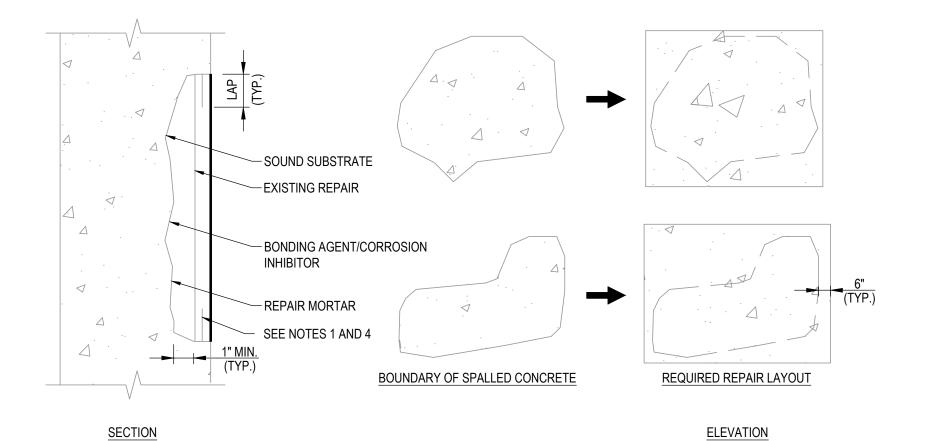
(HIGH PRESSURE EPOXY INJECTED)

CRACK REPAIR DETAIL



- 1 PROVIDE $\frac{3}{4}$ " SAWCUT AROUND DETERIORED CONCRETE SURFACE.
- 2 EXISTING REINFORCEMENT, WHERE ACTIVE CORROSION IS ENCOUNTERED, REVIEW CONDITION OF REINFORCEMENT WITH ENGINEER AND REPLACE IF OVER 25% OF CROSS SECTION IS LOST. CLEAN REINFORCING STEEL TO REMOVE ALL CONTAMINANTS AND CORROSION, COAT WITH EPOXY COATING. REPLACEMENT OF BARS SHALL BE INCIDENTAL AND INCLUDED IN THE REPAIR.
- REMOVE ALL DETERIORATED AND SOUND CONCRETE TO DEPTH OF 1" BEYOND REINFORCING BARS.
- COAT EXISTING SURFACE WITH CEMENTITOUS BONDING AGENT AND REBAR COATING. NOTE SYSTEM SHALL BE DAMP PRIOR TO REPLACEMENT OF CEMENTITOUS BONDING AGENT.
- INSTALL NEW CONCRETE REPAIR MATERIALS PER SPECIFICATION SECTION 03 01 33 REPAIR OF HORIZONTAL CONCRETE SURFACES.

HORIZONTAL CONCRETE REPAIR



NOTES:

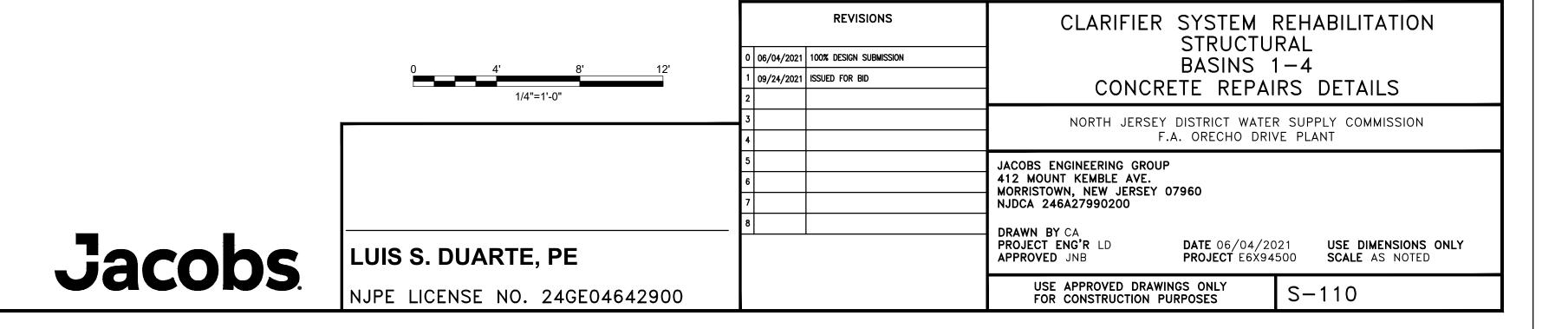
- 1. CHOP AWAY ALL DELAMINATED CONCRETE AND REMOVE LOOSE MATERIAL DOWN TO SOUND CONCRETE. IF REBAR BECOMES EXPOSED, CLEAN AND PROVIDE 1" CLEARANCE AND COAT WITH CORROSION PROTECTION. INSTALL AN APPROVED VERTICAL / OVERHEAD PATCHING COMPOUND.
- 2. DO NOT CUT REINFORCING UNLESS IT IS APPROVED BY ENGINEER TO REMOVE ALL DETERIORATED CONCRETE.
- 3. WHERE REINFORCING STEEL WITH ACTIVE CORROSION IS ENCOUNTERED, ENGINEER TO REVIEW CONDITION OF CORRODED REBARS PRIOR TO REPAIR. REPLACEMENT IS REQUIRED WHERE LOSS ON REBAR CROSS SECTION IS OVER 25% AFTER REMOVAL WHERE REINFORCING REMAINS. CLEAN REINFORCING STEEL TO REMOVE ALL CONTAMINANTS AND RUST. REMOVE CONCRETE TO A DEPTH OF 1-INCH MINIMUM BEHIND REINFORCING BARS AS SHOWN. REPLACEMENT OF CORRODED REBARS SHALL BE INCIDENTAL AND INCLUDED IN REPAIR.
- 4. WHERE DIRECTED BY ENGINEER, CUT EXISTING DETERIORATED REINFORCEMENT AND REPLACE WITH MATCHING BARS IN SIZE AND SPACING.

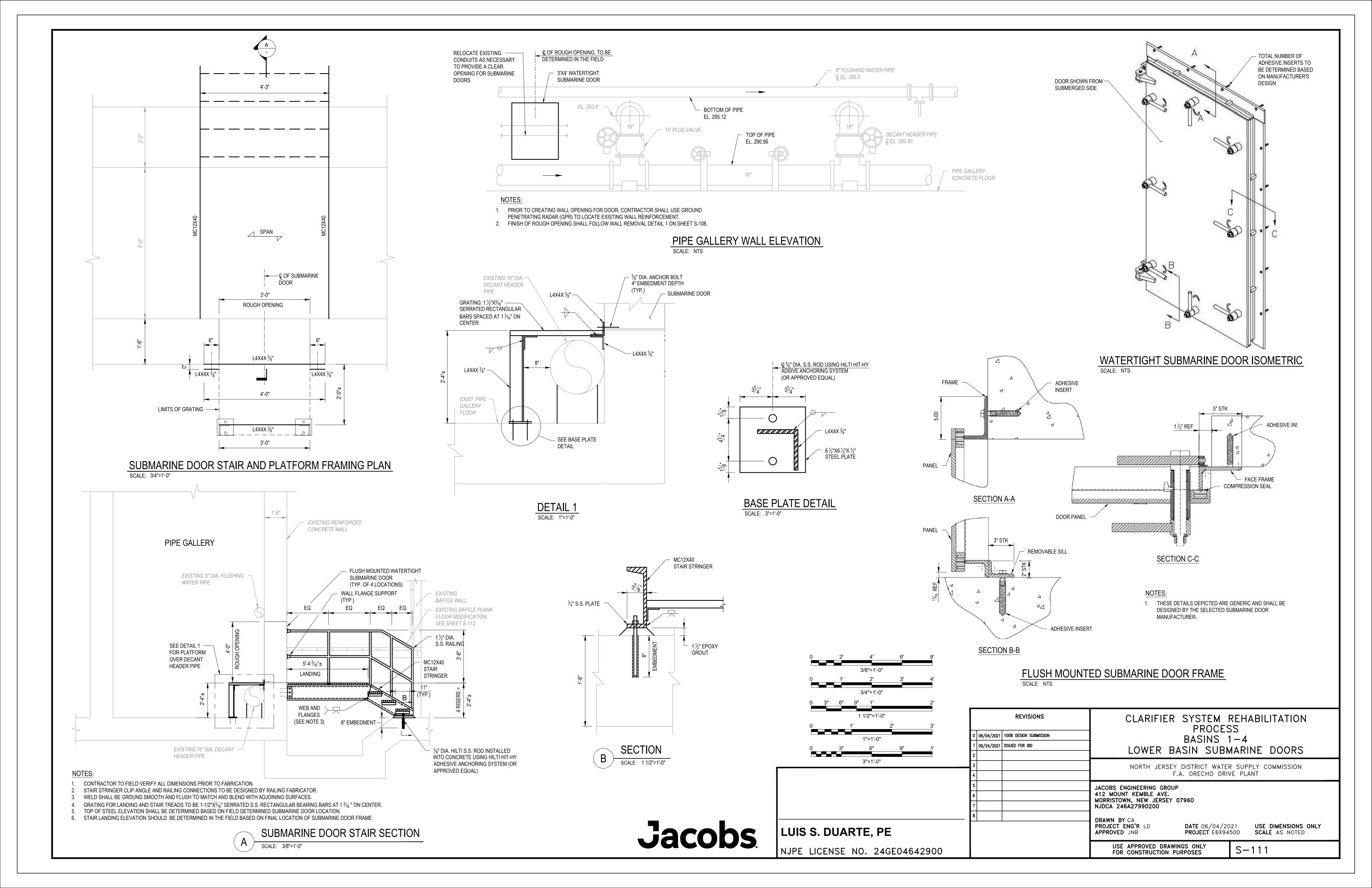
SPALL REPAIR DETAIL

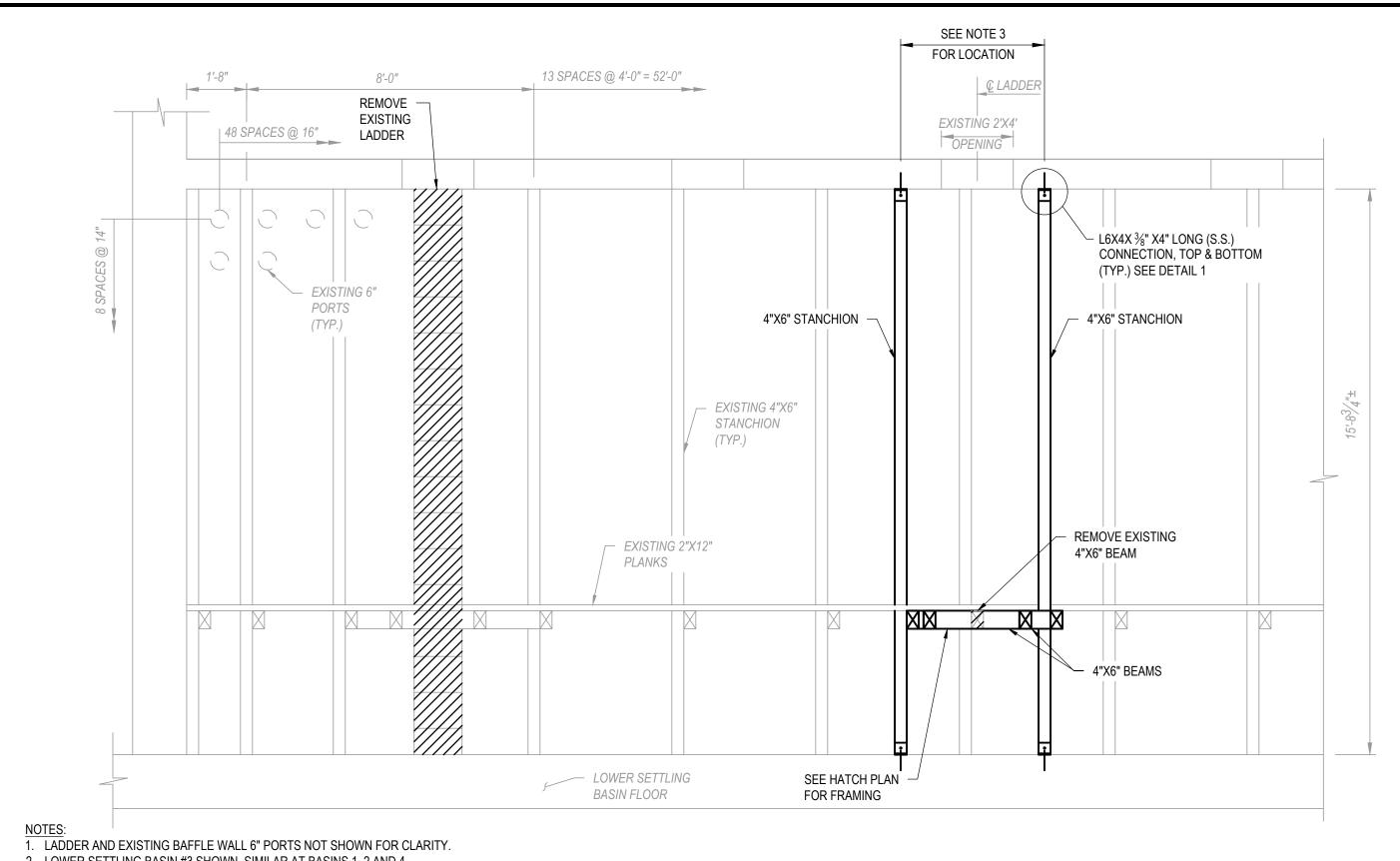
SCALE: 1/4"=1'-0"

BASIN CONCRETE SURFACE REPAIR:

- 1. CONCRETE SURFACES WITHIN BASINS 1 THROUGH 4 AND WITHIN THE FILTER INFLUENT CONDUIT SHOWN ON G-002 TO BE CLEANED WITH HIGH PRESSURE ABRASIVE BLASTING OR HYDRO-DEMOLITION TO REMOVE LAITANCE AND WEAKENED/LOOSE MATERIALS.
- 2. WHEN BASINS AND CHANNELS ARE CLEANED, CONTRACTOR SHALL CONTACT A LICENSED ENGINEER TO VISUALLY INSPECT ALL CONCRETE SURFACES AT ALL 4 BASINS AND CHANNELS AS WELL AS THE PIPE AND DRIVE GALLERIES FOR EVALUATION OF DETERIORATION. AFTER VISUAL INSPECTION ENGINEER SHALL RECOMMEND AREAS USING GROUND PENETRATING RADAR (GPR) TO DETERMINE REINFORCEMENT CONCRETE COVER. THE AMOUNT OF SCANNING SHALL BE LIMITED TO 5% OF SURFACE AREA OF ONE BASIN SELECTED BY THE ENGINEER AFTER EVALUATION.
- 3. CONCRETE SCALING SURFACE RESTORATION SHALL BE DETERMINED BY THE ENGINEER BASED ON THE FOLLOWING CONDITIONS ENCOUNTERED:
- a. IF WALL SURFACES HAVE A MINIMUM 2 INCH OF CONCRETE COVER, NO ADDITIONAL CORRECTIVE ACTION IS REQUIRED.
- b. AREAS OF WALL SURFACES WITH LESS THAN 1.5" OF CONCRETE COVER SHALL BE REPAIRED TO RESTORE THE CONCRETE COVER. A PROPRIETARY REPAIR MORTAR, THAT IS CERTIFIED COMPLIANT TO NSF/ANSI STANDARD 61 FOR CONTACT WITH POTABLE WATER, SUCH AS MASTEREMACO 488CI, MANUFACTURED BY BASF OF SHAKOPEE, MN CAN BE APPLIED VIA TROWEL OR LIGHT SPRAY COATING FOR LOCALIZED REPAIRS. THE ENTIRETY OF THE SURFACES CAN THEN BE COATED WITH TWO COATS OF XYPEX CONCENTRATE, TO COMPLY WITH NSF/ANSI CERTIFICATION. IF A LARGER PORTION OF THE CONCRETE ON THE ORDER OF 50% OR MORE, EXHIBITS LOW REINFORCEMENT COVER, A SHOTCRETE REPAIR METHOD WOULD NEED TO BE APPLIED TO THE WALLS.
- 4. FOR AREAS REQUIRING CRACK OR SPALL REPAIR WITH EXPOSED REINFORCEMENT BARS, AS DETERMINED BY THE ENGINEER'S INSPECTION, CONTRACTOR SHALL REFER TO DETAILS ON THIS SHEET FOR THE REPAIR.
- 5. DEPENDING ON REPAIR SYSTEM USED FOR CRACK OR SPALL REPAIRS, CONTRACTOR SHALL FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS FOR APPLICATIONS EXPOSED TO POTABLE WATER SURFACES, CERTIFIED TO MEET THE REQUIREMENTS OF NSF 61.
- 6. CRACKS LESS THAN 1/8" THICKNESS SHALL NOT BE REPAIRED WITH HIGH PRESSURE EPOXY INJECTION, REPAIR SURFACE AS DESCRIBED IN NOTE 3.

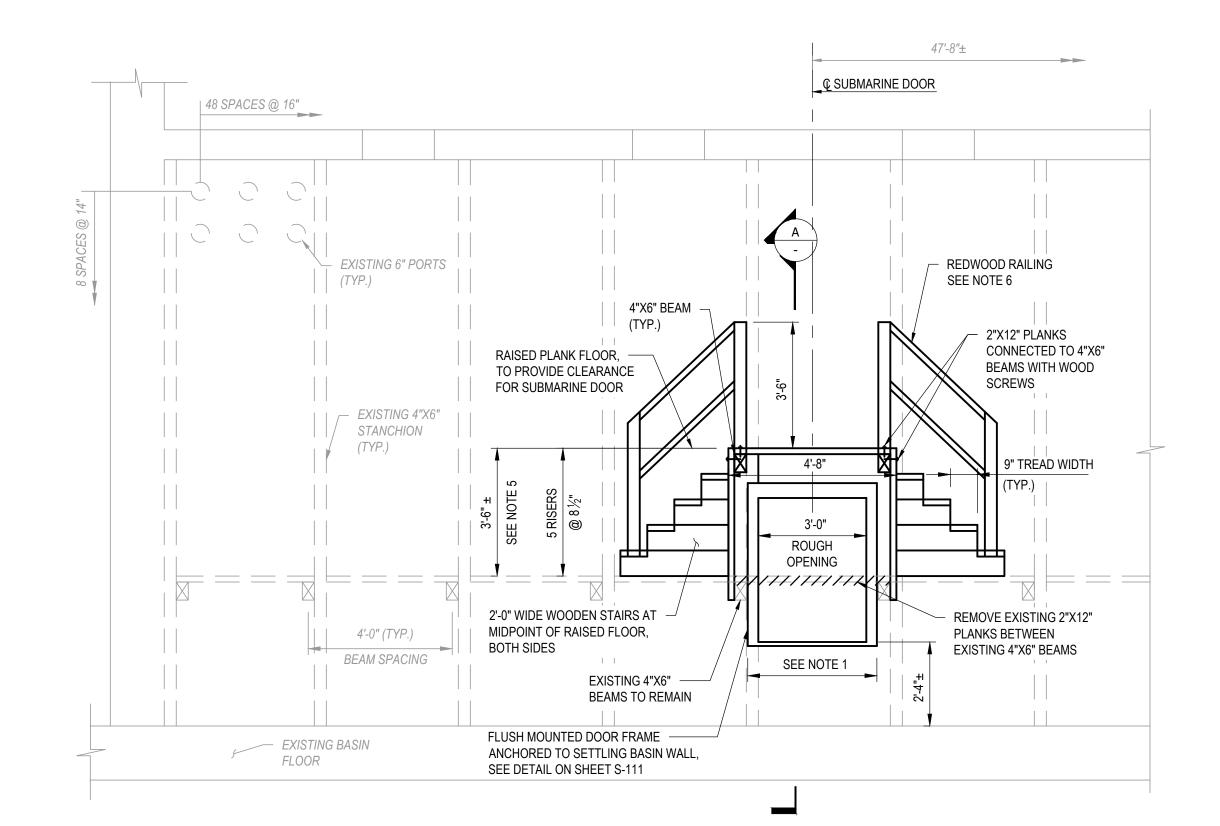






- 2. LOWER SETTLING BASIN #3 SHOWN, SIMILAR AT BASINS 1, 2 AND 4. 3. FINAL LOCATION OF (2) 4"X6" STANCHIONS SHALL BE LOCATED IN THE FIELD
- TO AVOID INTERFERENCE WITH EXISTING 6" PORTS.
- 4. REMOVE BAFFLE WALL SHIPLAP PLANKS AS NECESSARY TO INSTALL 4"X6" STANCHIONS. REPLACE PLANKS AFTER INSTALLATION.

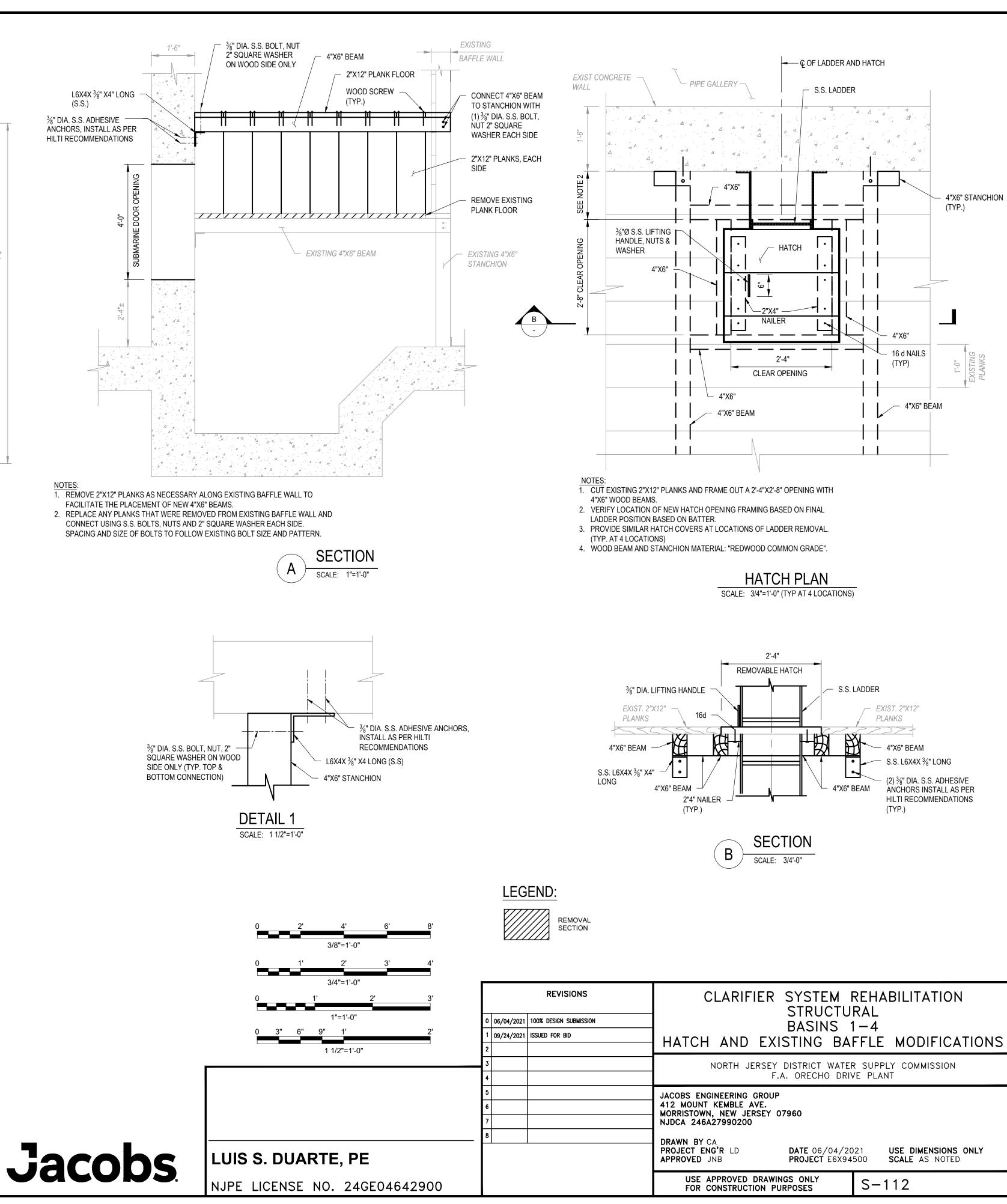
WALL FRAMING SECTION SCALE: 3/8"=1'-0"

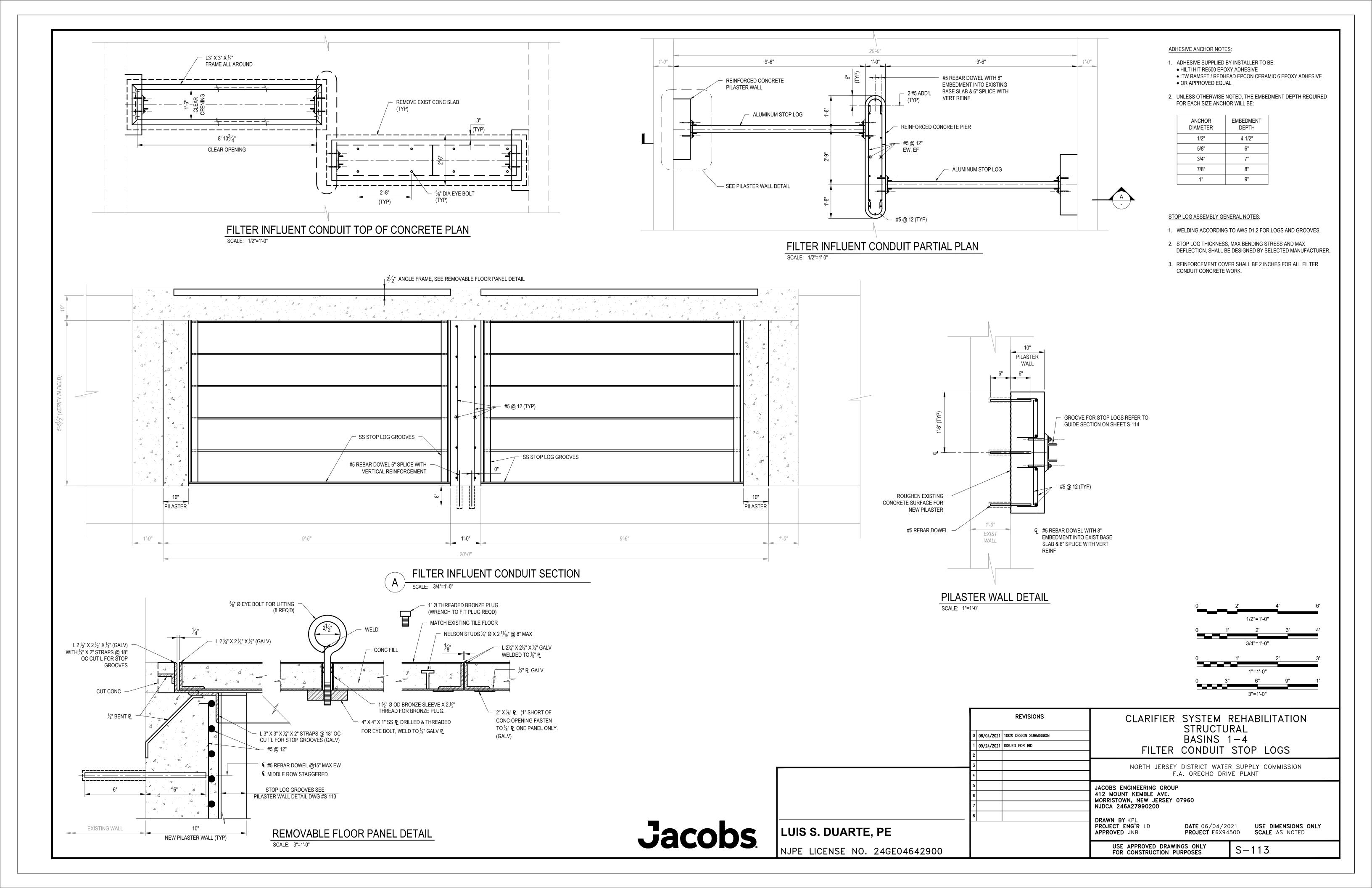


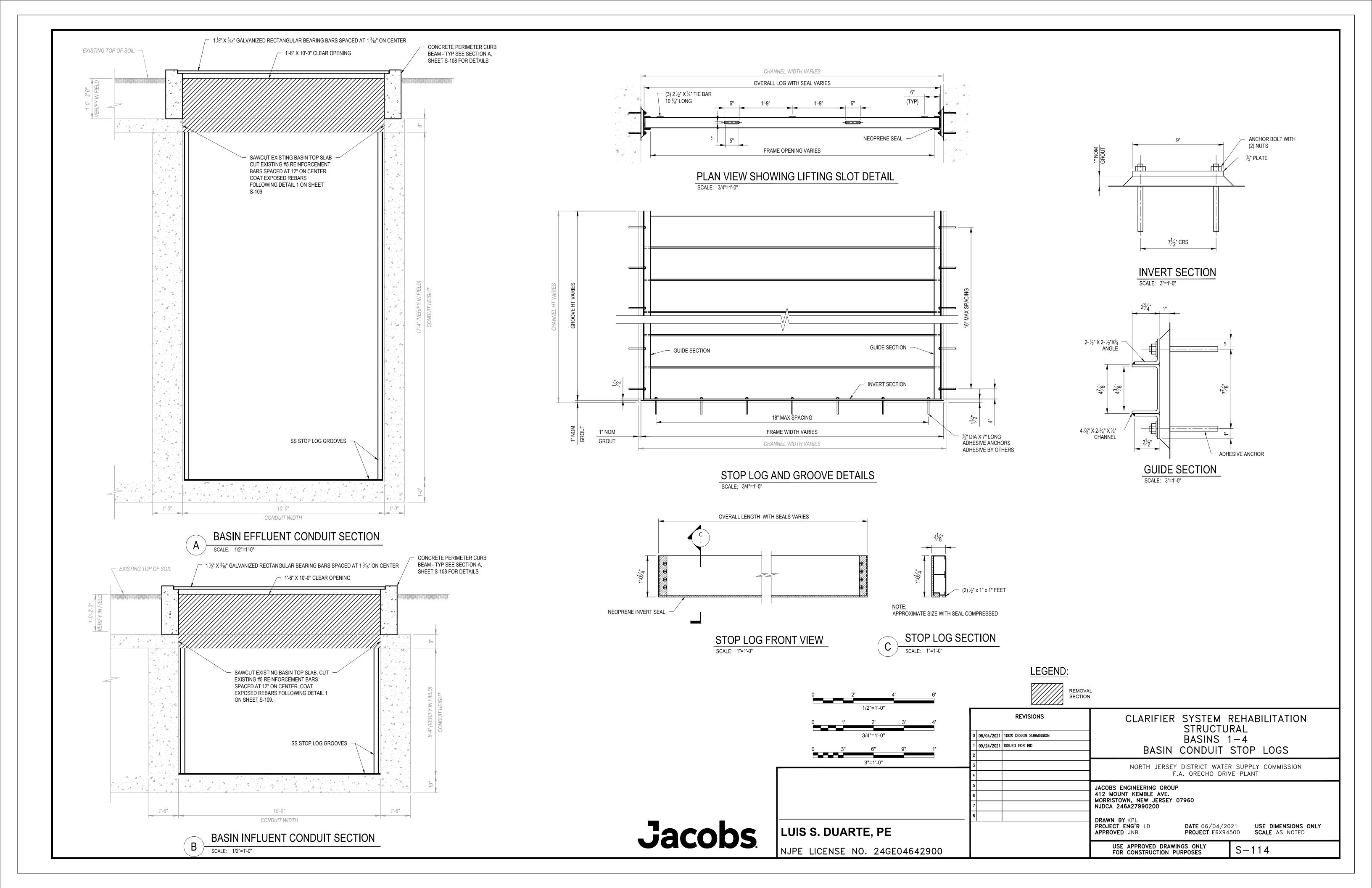
1. CONTRACTOR SHALL VERIFY FLUSH MOUNTED SUBMARINE DOOR FRAME WILL NOT INTERFERE WITH EXISTING 4"X6" BEAMS.

- 2. TYPICAL SUBMARINE DOOR AND RAISED PLANK FLOOR AT 4 BASIN LOCATIONS.
- 3. SEE SECTION A FOR 4"X6" BEAM CONNECTIONS TO EXISTING WALL AND STANCHION.
- 4. EXISTING 6" DIAMETER PORTS NOT SHOWN FOR CLARITY.
- 5. FINAL HEIGHT OF PLANK FLOOR DETERMINED IN THE FIELD TO AVOID AND FIT BETWEEN
- 6. PROVIDE A WOOD HANDRAIL WITH 4"X4" POSTS AND 2"X4" TOP AND MIDDLE RAILS FOR STAIRS AT RAISED PLANK FLOOR. TOP OF RAIL 3'-6" ABOVE STAIRS.









AMPERE AC ALTERNATING CURRENT AWG AMERICAN WIRE GAUGE BKR **BREAKER** CONDUIT CB CIRCUIT BREAKER CKT CIRCUIT **ELEC ELECTRICAL** FRE FIBERGLASS REINFORCED EPOXY G, GND GROUND JUNCTION BOX JB KVA KILOVOLT AMPERES ΚW KILOWATT LED LIGHT EMITTING DIODE LFNC LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT LTG LIGHTING MCB MAIN CIRCUIT BREAKER **MFR** MANUFACTURER MAIN SWITCHBOARD MSB NEUTRAL NATIONAL ELECTRIC CODE NEC NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NOT IN CONTRACT NJDWSC NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION NOT TO SCALE PH PHASE PVC POLYVINYL CHLORIDE CONDUIT QTY QUANTITY RGS RIGID GALVANIZED STEEL CONDUIT

UNDERWRITERS LABORATORIES, INC.

SPARE

VOLT

WATT

TYPICAL

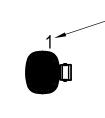
VOLT AMPERE

WEATHERPROOF

TYP

VA

LEGEND



143W LED LUMINAIRE WITH A YOKE MOUNT

CONDUIT SEE PLANS FOR SIZE, TYPE AND INSTALLATION

12" X 12" X 4" POLYCARBONATE PULL BOX

24" X 24" X 10" GALVANIZED STEEL PULL BOX NEMA 3R

8" X 8" X 4" POLYCARBONATE PULL BOX (LOCATED UNDER LUMINAIRE)

277V, 10 POLE CONTACTOR WITH PUSHBUTTON SWITCH IN A NEMA 3R ENCLOSURE

GENERAL NOTES

- 1. FURNISH AND INSTALL HOT DIPPED GALVANIZED CLAMPS FOR SUPPORTING 3/4" CONDUITS ANCHORED TO CONCRETE WITH 5/16" EPOXY SET ANCHORS WITH EMBEDMENT PER ANCHOR MANUFACTURER RECOMMENDATIONS SPACED PER NEC REQUIREMENTS.
- 2. FURNISH AND PROVIDE GALVANIZED STEEL HANGERS FOR SUPPORTING ALL RMC CONDUITS ANCHORED TO CONCRETE WITH 5/16" EPOXY SET ANCHORS WITH EMBEDMENT PER ANCHOR MANUFACTURER RECOMMENDATIONS SPACED PER NEC REQUIREMENTS.
- 3. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH NJAC 5:23-3, NJAC 5:23-3.16 ELECTRICAL SUBCODE, NFPA 70 (NEC) CURRENT EDITION AND ALL GOVERNING LOCAL CODES AND ORDINANCES. THESE ELECTRICAL DRAWINGS ARE BASED ON 2017 NEC.
- 4. ALL PENETRATIONS BETWEEN LOWER SETTLING BASIN AND BASINS ABOVE SHALL BE EPOXY SEALED TO MINIMIZE WATER PENETRATION BETWEEN BASINS.
- 5. ALL WALL PENETRATIONS BETWEEN MIXING BASINS AND DRIVE GALLERY SHALL BE MECHANICALLY SEALED WITH LINK SEAL OR APPROVED EQUAL, SEE DETAIL ON SHEET L-201.

EQUIPMENT SPECIFICATIONS

- 1.1. VOLTAGE: 600V
- 1.2. INSULATION: THWN-2
- 1.3. SIZE: AS SHOWN
- 1.4. MANUFACTURER: AETNA, SOUTHWIRE OR APPROVED **EQUAL**

2. CONDUIT

- 2.1. FRE (SIZE AS SHOWN)
- 2.2. MANUFACTURER: FRE COMPOSITES, CHAMPION FIBERGLASS OR APPROVED EQUAL
- 2.3. FITTINGS: FRE
- 2.4. LFNC (SIZE AS SHOWN)
- 2.5. MANUFACTURER: ATKORE, KAIFLEX OR APPROVED **EQUAL**
- 2.6. RMC (SIZE AS SHOWN)
- 2.7. MANUFACTURER: ALLIED, WHEATLAND OR APPROVED EQUAL
- 2.8. FITTINGS: RMC

3. PULL BOX

- 3.1. MATERIAL: POLYCARBONATE
- 3.2. MANUFACTURER: ADALET OR APPROVED EQUAL
- 3.3. MATERIAL: GALVANIZED STEEL
- 3.4. RATING: NEMA 3R
- 3.5. MANUFACTURER: HOFFMAN OR APPROVED EQUAL

4. LUMINAIRE

4.1. RATING: IP68

NJPE License No. 24GE03337900

- 4.2. MANUFACTURER: NEMALUX OR APPROVED EQUAL
- 4.3. CATALOG CUT: XR20-50-WC-GY-GN-AC-68-XR-YM
- 4.4. LED DRIVER WIRED FOR 277VOLT, 1-PHASE OPERATION

NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION 1 FA ORECHIO DR., WANAQUE, NEW JERSEY JACOBS ENGINEERING GROUP INC. 299 MADISON AVENUE MORRISTOWN, NJ 07962 NJDCA 246A27990200 DRAWN BY:ML STEVE EICHINGER, P.E. PROJECT ENG'R: ML **DATE:**03/15/21 PROJECT: E6X94500 **APPROVED:** SE Professional Engineer

0 12/07/2020 30% REVIEW

2 09/24/2021 ISSUED FOR BID

1 03/15/2021 80% DESIGN SUBMISSION

REVISIONS

CLARIFIER SYSTEM REHABILITATION LIGHTING

BASINS 1-4

LEGEND AND GENERAL NOTES

USE APPROVED DRAWINGS ONLY

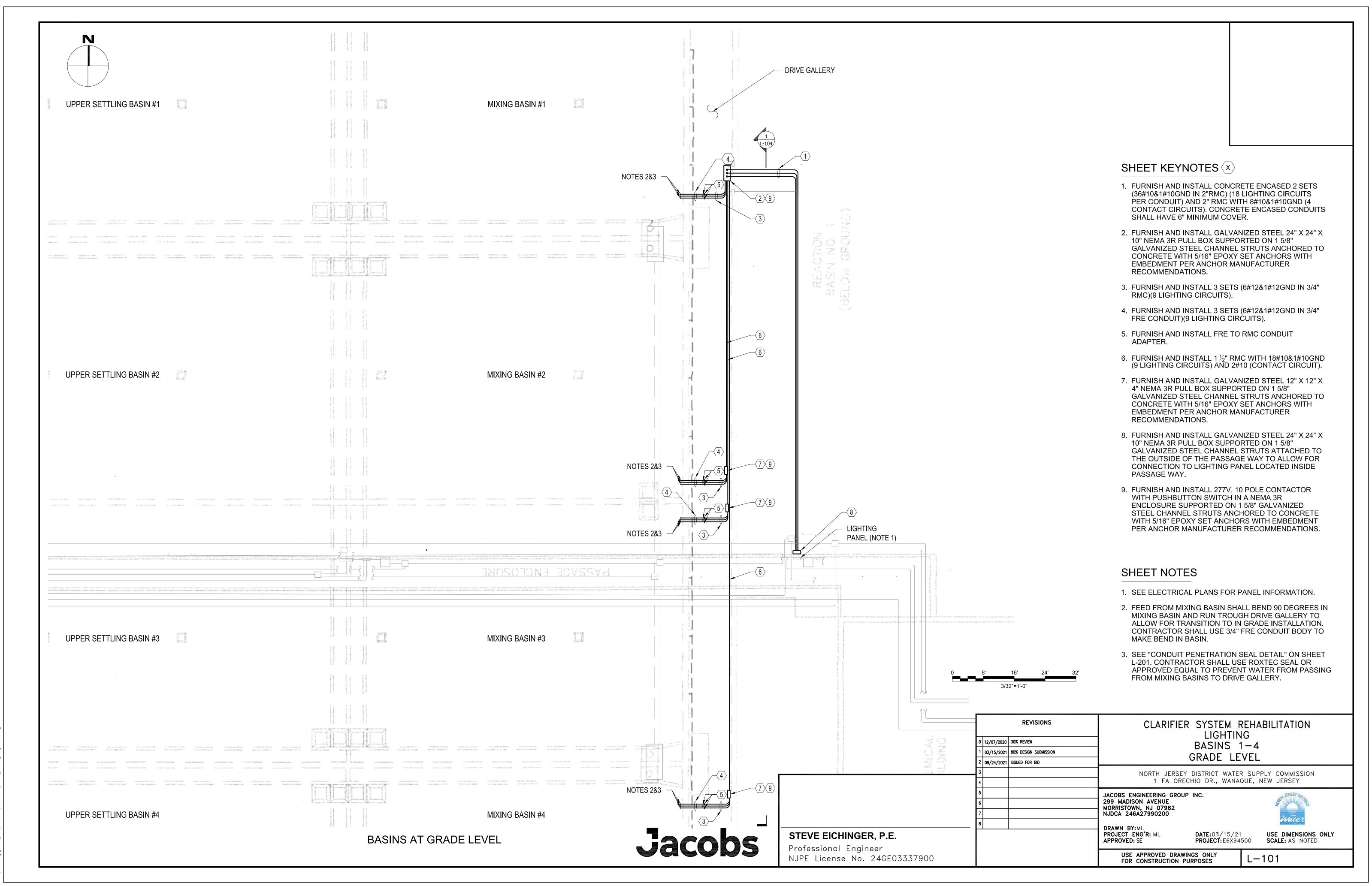
FOR CONSTRUCTION PURPOSES

USE DIMENSIONS ONLY

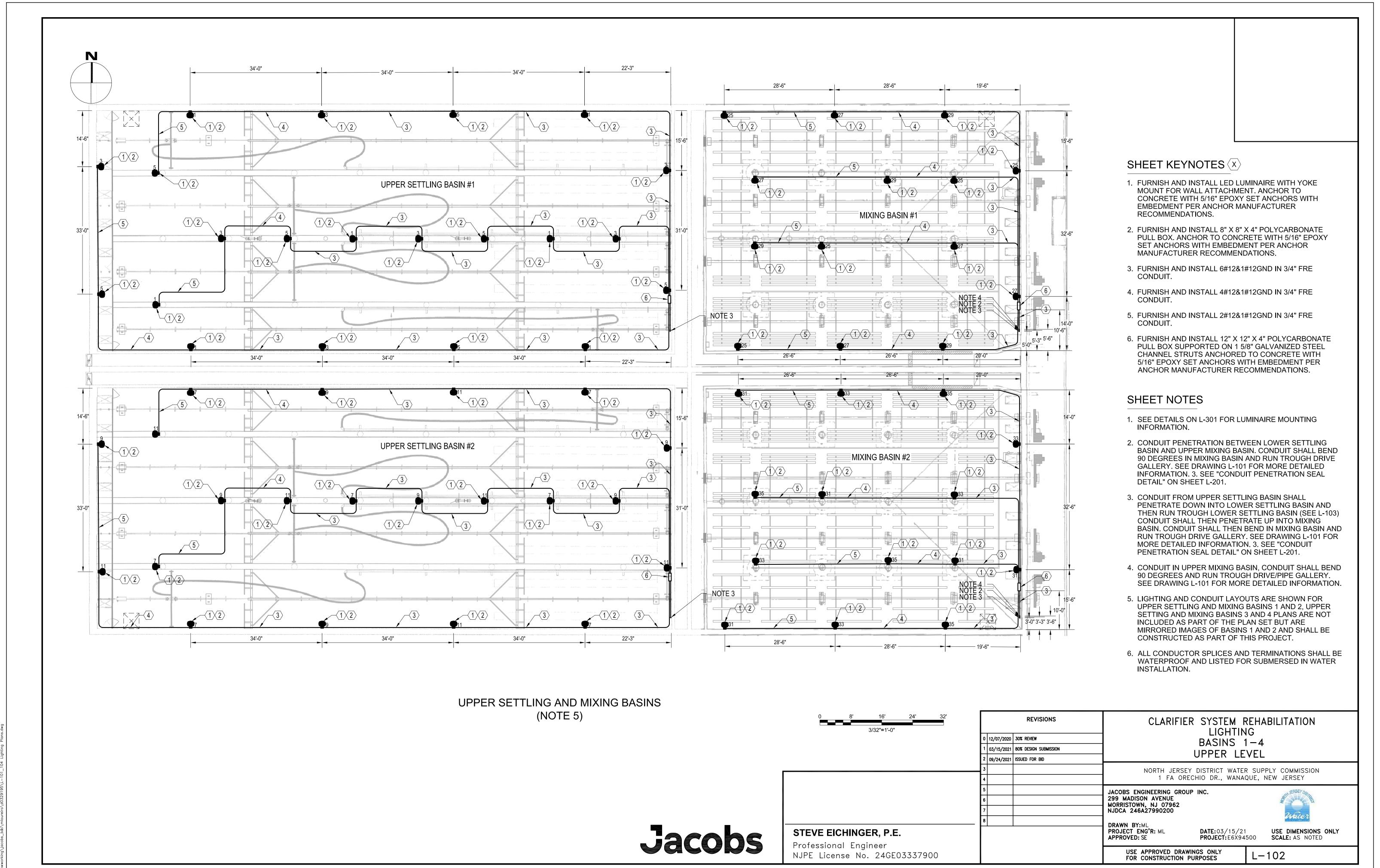
SCALE: AS NOTED

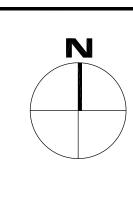
L-001

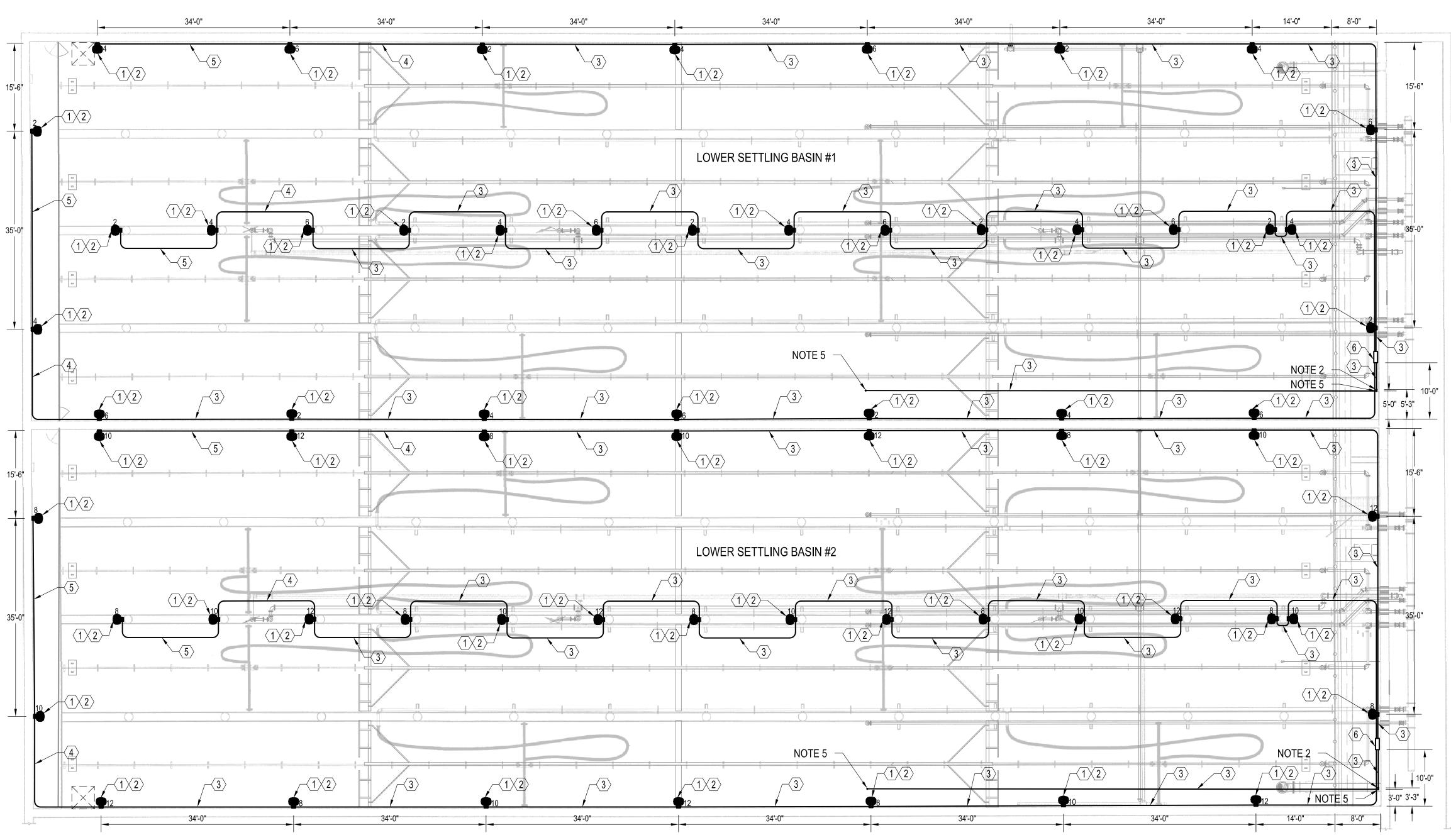
Jacobs



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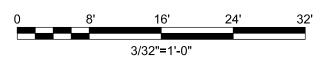
SHEET KEYNOTES (X)

- 1. FURNISH AND INSTALL LED LUMINAIRE WITH YOKE MOUNT FOR WALL ATTACHMENT. ANCHOR TO CONCRETE WITH 5/16" EPOXY SET ANCHORS WITH EMBEDMENT PER ANCHOR MANUFACTURER RECOMMENDATIONS.
- 2. FURNISH AND INSTALL 8" X 8" X 4" POLYCARBONATE PULL BOX. ANCHOR TO CONCRETE WITH 5/16" EPOXY SET ANCHORS WITH EMBEDMENT PER ANCHOR MANUFACTURER RECOMMENDATIONS.
- 3. FURNISH AND INSTALL 6#12&1#12GND IN 3/4" FRE CONDUIT.
- 4. FURNISH AND INSTALL 4#12&1#12GND IN 3/4" FRE CONDUIT.
- 5. FURNISH AND INSTALL 2#12&1#12GND IN 3/4" FRE CONDUIT.
- 6. FURNISH AND INSTALL 12" X 12" X 4" POLYCARBONATE PULL BOX SUPPORTED ON 1 5/8" GALVANIZED STEEL CHANNEL STRUTS ANCHORED TO CONCRETE WITH 5/16" EPOXY SET ANCHORS WITH EMBEDMENT PER ANCHOR MANUFACTURER RECOMMENDATIONS.

SHEET NOTES

- 1. SEE DETAILS ON L-301 FOR LUMINAIRE MOUNTING INFORMATION.
- 2. CONDUIT PENETRATION BETWEEN LOWER SETTLING BASIN AND UPPER MIXING BASIN.
- 3. LIGHTING AND CONDUIT LAYOUTS ARE SHOWN FOR LOWER SETTLING BASINS 1 AND 2, LOWER SETTLING BASINS 3 AND 4 PLANS ARE NOT INCLUDED AS PART OF THE PLAN SET BUT ARE MIRRORED IMAGES OF BASINS AND 2 AND SHALL BE CONSTRUCTED AS PART OF THIS PROJECT.
- 4. ALL CONDUCTOR SPLICES AND TERMINATIONS SHALL BE WATERPROOF AND LISTED FOR SUBMERSED IN WATER INSTALLATION.
- 5. CONDUIT FROM UPPER SETTLING BASIN SHALL PENETRATE DOWN INTO LOWER SETTLING BASIN AND RUN TROUGH LOWER SETTLING BASIN. CONDUIT SHALL THEN PENETRATE UP INTO MIXING BASIN.

LOWER SETTLING BASINS (NOTE 3)



REVISIONS CLARIFIER SYSTEM REHABILITATION LIGHTING 12/07/2020 30% REVIEW BASINS 1-4 1 03/15/2021 80% DESIGN SUBMISSION LOWER LEVEL 2 09/24/2021 ISSUED FOR BID

NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION 1 FA ORECHIO DR., WANAQUE, NEW JERSEY

JACOBS ENGINEERING GROUP INC. 299 MADISON AVENUE MORRISTOWN, NJ 07962 NJDCA 246A27990200

DRAWN BY:ML PROJECT ENG'R: ML DATE:03/15/21 PROJECT:E6X94500

USE DIMENSIONS ONLY SCALE: AS NOTED

Jacobs

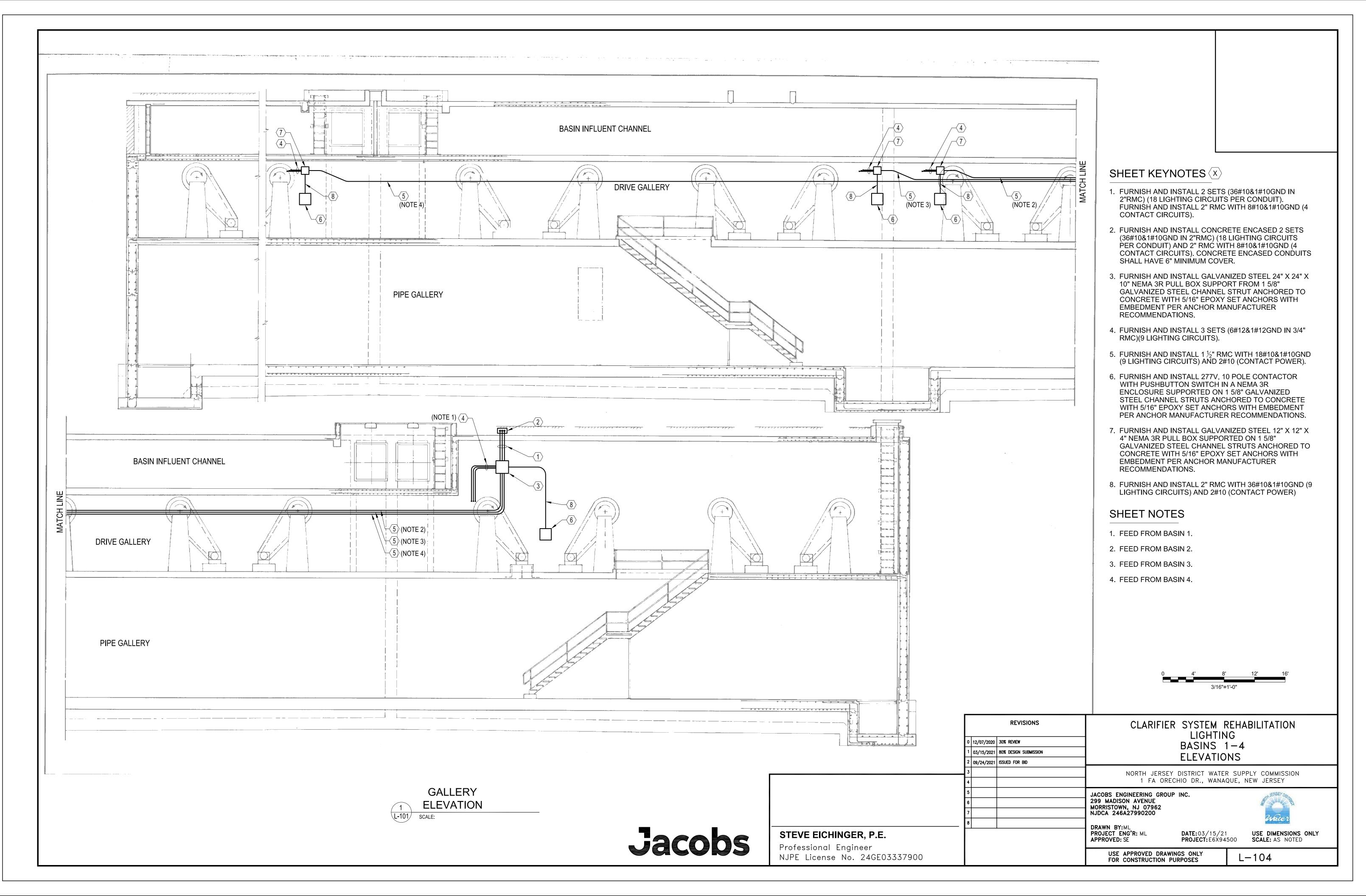
STEVE EICHINGER, P.E. Professional Engineer

NJPE License No. 24GE03337900

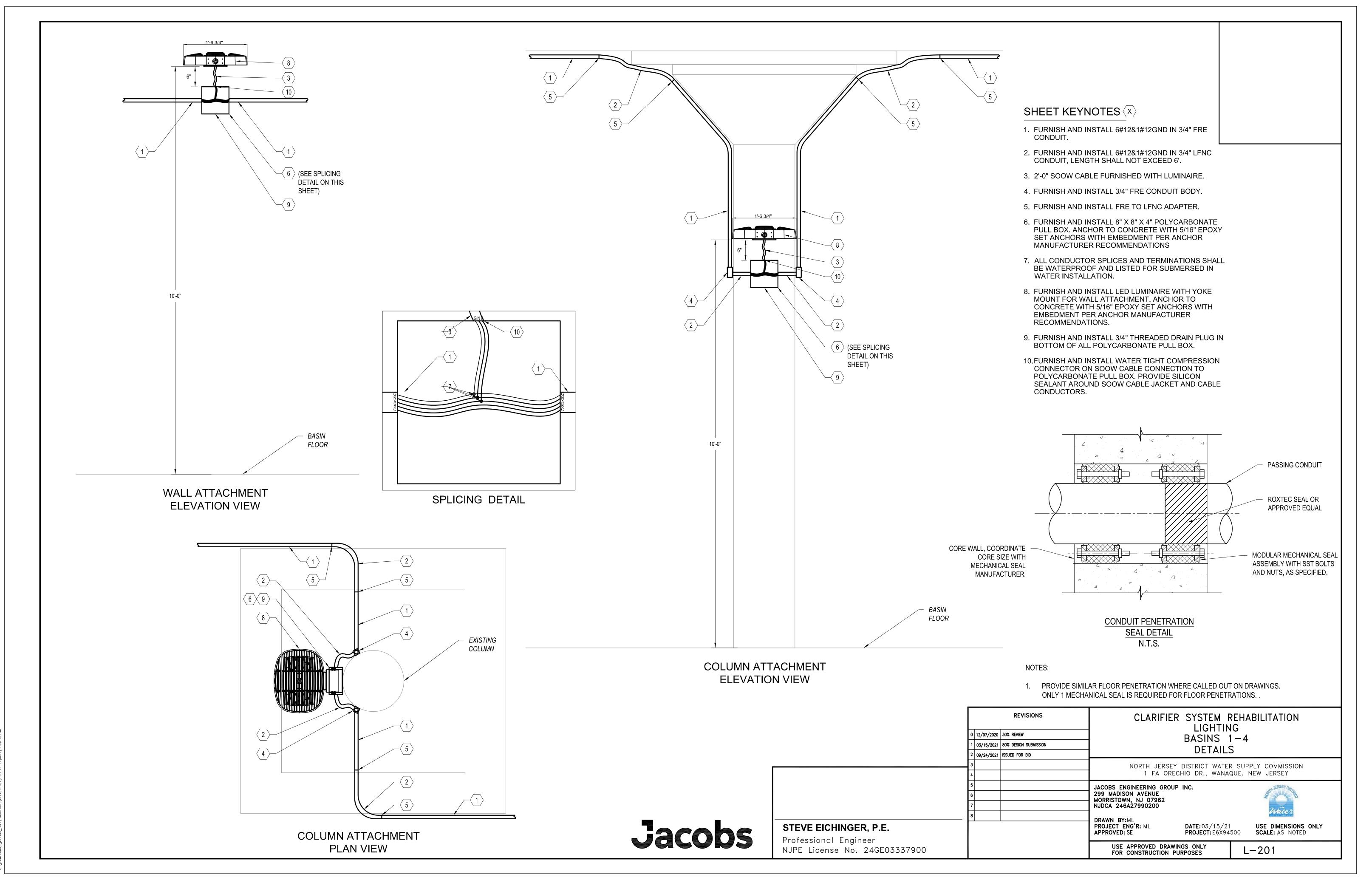
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

APPROVED: SE

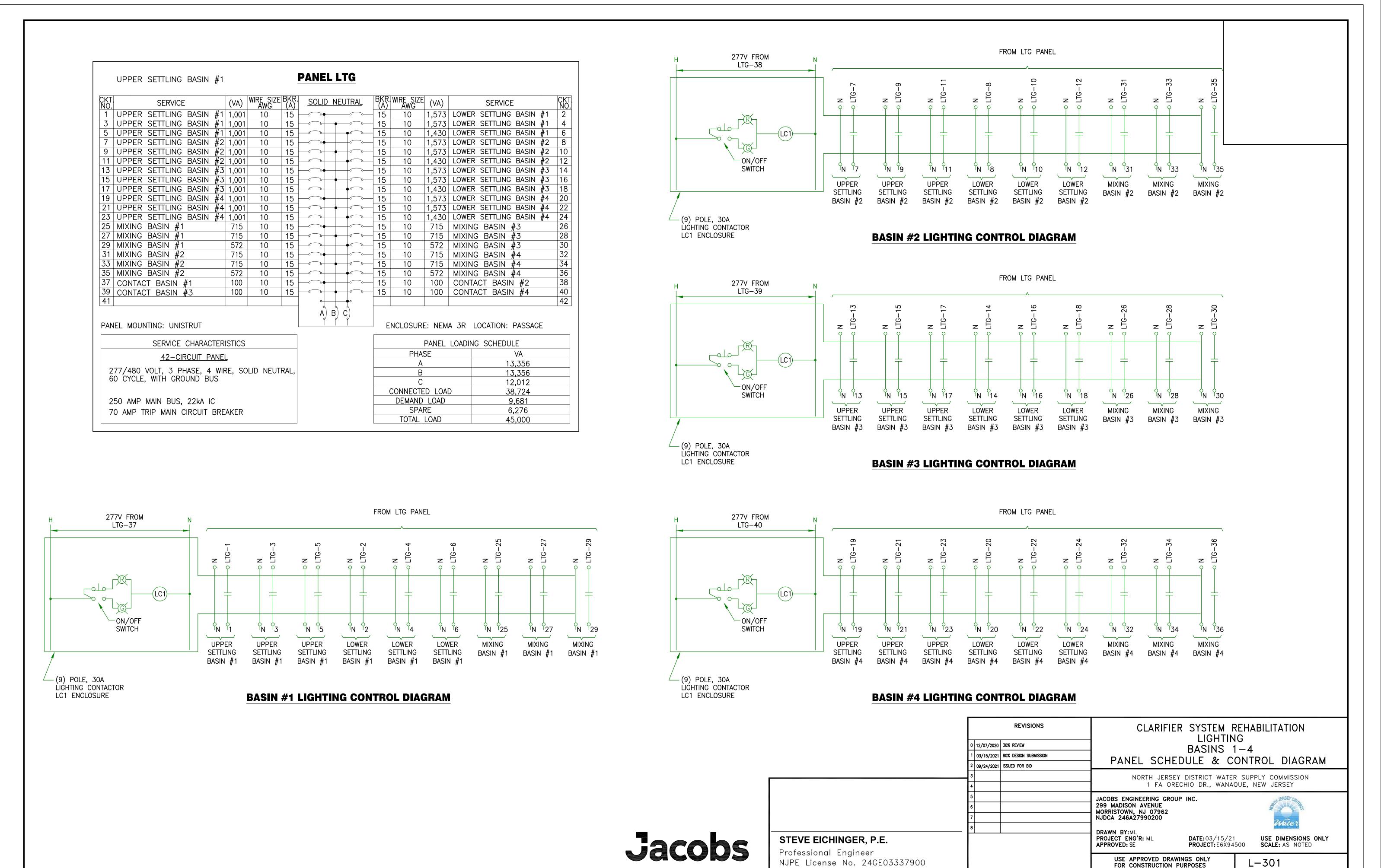
L-103



working\jacobs_b&i\mloureiro\d0329195\L-101_104 Lighting Plans.dwc



modition | 1904 | 1905 | 1904 | 1905 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905 | 1905



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ATTACHMENT #1

ACCESS APPROVAL & COVID-19 VISITOR QUESTIONNAIRE FORMS

Pages (2) Two



Visitor/Vendor/Contractor Access

Every person entering the N.J.D.W.S.C. must complete and submit the following before access will be granted:

- 1. Completed copy of Access Approval Form.
- 2. Completed copy of *Visitor Questionnaire* related to Covid19.
- 3. Copy of Drivers License or Photo I.D.
- If hazardous materials is being delivered, attach a copy of the MSDS for each chemical.
- Contractors must meet with a N.J.D.W.S.C. Safety Officer prior to work being started.
- Contractors will be responsible for all sub-contractors (paperwork and safety).
- Upon arrival, everyone must check in with Security prior to the entrance gates.
- If any emergency arises while on N.J.D.W.S.C. property, Security must be call at (973) 831-6200.
- For anyone entering multiple days, the Covid19 form will only be necessary once a week.

All paperwork must be emailed to security@njdwsc.com and to their Commission contact person.

Any questions please call (973) 831-6200

ACCESS APPROVAL FORM TO COMMISSION FACILITIES



COMPLETE ALL SECTIONS

PLEASE PRINT LEGIBLY

| 1. | Nam | ne of Individual Enter | ring Premises: | | | | | | |
|-----------|------|---|--------------------|------------|---|---------------|------------|----------------|---|
| | a. | Company Name: | | | | | | | |
| | b. | Date of Arrival: | | | | | | | |
| | C. | Time of Arrival: | | | | | | | |
| | d. | Your Contact Info: | | | | | | | |
| 2. | | Purpose: | | | | | | | |
| | a. | Meeting: () Bid/RFP # & Title: | ` | • | • | • | ` , | , | |
| | | Meeting Scheduled | l With: | | | | | | |
| | | Visiting which Com | | | | | | | |
| | b. | Delivery: () | | | | | | | |
| | | Purpose of Deliver | y: | | | | | | |
| | | Contact Person at | NJDWSC: | | | | | | - |
| | Тур | e: Package: | | | Chemical: | | Oth | er: | |
| | Haz | ardous Materials(|) (Attach | MSDS She | ets) | | | | |
| | Othe | er Materials Delivere | · | | | , | | | - |
| 3. | Veh | icle Make: | Ye | ear: | Color: | | Lic. Plate | #: | - |
| 4. | Eme | ergency Contact Nun | nber of Your Fi | rm: | Name: _ | | | | |
| | | | | | Tele #: | | | | |
| | | | | | | | | | 1 |
| <u>24</u> | hοι | completed Ac <u>urs prior to arr</u> Access Appro | <i>ival time</i> . | For any | questions, | please ca | II (973) 8 | | |
| | | | | | | | | | |
| Арр | rove | d by Commission: | | | | | Date: | | _ |
| Not | e: | Safety Office | er for site ori | entation a | arting work or and safety aw yee and all su | areness train | ning. | to meet with a | |

The safety of our employees, suppling partners, customers, families and visitors remain NJDWSC's overriding priority. As the Coronavirus disease 2019 (COVID-19) continues, NJDWSC Security are monitoring the situation closely and will periodically update company guidance based on current recommendations from the Centers for Disease Control and Prevention and the World Health Organization.

To prevent the spread of COVID-19 and reduce the potential risk of exposure to our

| workforce and visitors, we are conducting a simple screening questionnaire. Your participation is important to help us take precautionary measures to protect you and | | | | |
|---|-------------|----------------------|---------------|-----------------|
| everyone in this building. Thank you for your ti Visitor's Name: | me. | | | |
| VISILOI S INAITIE. | | | | |
| Developed Dhene Munchey (machile /hene) | | | | |
| Personal Phone Number (mobile/home) | | | | |
| | | | | |
| Visitor's Company/Organization: | | | | |
| | | | | |
| Self-Declaration by Visitor | | | | |
| 1. Have you been quarantined within the last 14 days? | | No | | |
| 2. Have you had close contact with or cared for someo | _ | | COVID-19 | within the last |
| 14 days?3. Have you experienced any cold or flu-like symptoms | | No | c /+a includ | o fovor sough |
| sore throat, respiratory illness, difficulty breathing)? | | 14 uay: No | s (to iliciuu | e rever, cough, |
| 4. Have you traveled from any of the prohibited count | | | t 14 days? | |
| , | | No | | |
| 5. Have you received any COVID-19 vaccinations? | Yes | No | Date: | |
| If the answer is "yes" to questions 1, 2, 3 or 4, | access to t | the fa | cility will | be denied. |
| Signature (visitor): | | Da | ate: | |
| | | | | |
| Note: if you plan to be onsite for consecutive of | ays, pleas | e imn | nediately | advise your |
| NJDWSC contact if any of your responses chan | ge. | | | |
| The information collected on this form will be NJDWSC facilities. | used to de | etermi | ne your a | ccess right to |
| Access to facility (circle one): Approved De | nied Temp | perat | ure: | |

MASKS MUST BE WORN AT ALL TIMES WHILE ON NJDWSC PROPERTY

ATTACHMENT #2

VENDOR CERTIFICATION & DISCLOSURE OF POLITICAL CONTRIBUTIONS DISCLOSURE FORMS

Pages (7) Seven

INFORMATION AND INSTRUCTIONS

For Completing the "Two-Year Vendor Certification and Disclosure of Political Contributions" Chapter 51 Form

Background Information

On September 22, 2004, then-Governor James E. McGreevey issued E.O. 134, the purpose of which was to insulate the negotiation and award of State contracts from political contributions that posed a risk of improper influence, purchase of access or the appearance thereof. To this end, E.O. 134 prohibited State departments, agencies and authorities from entering into contracts exceeding \$17,500 with individuals or entities that made certain political contributions. E.O. 134 was superseded by Public Law 2005, c. 51, signed into law on March 22, 2005 ("Chapter 51").

On September 24, 2008, Governor Jon S. Corzine issued E.O. 117 which is designed to enhance New Jersey's efforts to protect the integrity of procurement decisions and increase the public's confidence in government. The Executive Order builds upon the provisions of Chapter 51.

Two-Year Certification Process

Upon approval by the State Chapter 51 Review Unit, the Certification and Disclosure of Political Contributions form is valid for a two (2) year period. Thus, if a vendor receives approval on January 1, 2014, the certification expiration date would be December 31, 2015. Any change in the vendor's ownership status and/or political contributions during the two-year period will require the submission of new Chapter 51/Executive Order 117 forms to the State Review Unit. Please note that it is the vendor's responsibility to file new forms with the State should these changes occur.

State Agency Instructions: Prior to the awarding of a contract, the State Agency should first use NJSTART (https://www.njstart.gov/bso/) to check the status of a vendor's Chapter 51 certification before contacting the Review Unit's mailbox at CD134@treas.nj.gov. If the State Agency does not find any Chapter 51 Certification information in NJSTART and/or the vendor is not registered in NJSTART, then the State Agency should send an e-mail to CD134@treas.nj.gov to verify the certification status of the vendor. If the response is that the vendor is NOT within an approved two-year period, then forms must be obtained from the vendor and forwarded for review. If the response is that the vendor is within an approved two-year period, then the response so stating should be placed with the bid/contract documentation for the subject project.

Instructions for Completing the Form

Part 1: BUSINESS ENTITY INFORMATION

Business Name – Enter the full legal name of the vendor, including trade name if applicable.

Address, City, State, Zip and Phone Number -- Enter the vendor's street address, city, state, zip code and telephone number.

Vendor Email - Enter the vendor's primary email address.

Vendor FEIN – Please enter the vendor's Federal Employment Identification Number.

Business Type - Check the appropriate box that represents the vendor's type of business formation.

Listing of officers, shareholders, partners or members - Based on the box checked for the business type, provide the corresponding information. (A complete list must be provided.)

Part 2: DISCLOSURE OF CONTRIBUTIONS

Read the three types of political contributions that require disclosure and, if applicable, provide the recipient's information. The definition of "Business Entity/Vendor" and "Contribution" can be found on pages 3 and 4 of this form

Name of Recipient - Enter the full legal name of the recipient.

Address of Recipient - Enter the recipient's street address.

Date of Contribution - Indicate the date the contribution was given.

Amount of Contribution - Enter the dollar amount of the contribution.

Type of Contribution - Select the type of contribution from the examples given.

Contributor's Name - Enter the full name of the contributor.

Relationship of the Contributor to the Vendor - Indicate the relationship of the contributor to the vendor. (e.g. officer or shareholder of the company, partner, member, parent company of the vendor, subsidiary of the vendor, etc.)

NOTE: If form is being completed electronically, click "Add a Contribution" to enter additional contributions. Otherwise, please attach additional pages as necessary.

Check the box under the recipient information if no reportable contributions have been solicited or made by the business entity. This box must be checked if there are no contributions to report.

Part 3: CERTIFICATION

Check Box A if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity <u>and all</u> individuals and/or entities whose contributions are attributable to the business entity. (No additional Certification and Disclosure forms are required if BOX A is checked.)

Check Box B if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity <u>and all</u> individuals and/or entities whose contributions are attributable to the business entity <u>with the exception</u> of those individuals and/or entities that submit their own separate form. For example, the representative is not signing on behalf of the vice president of a corporation, but all others. The vice president completes a separate Certification and Disclosure form. (Additional Certification and Disclosure forms are required from those individuals and/or entities that the representative is not signing on behalf of and are included with the business entity's submittal.)

Check Box C if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity only. (Additional Certification and Disclosure forms are required from all individuals and/or entities whose contributions are attributable to the business entity and must be included with the business entity submittal.)

Check Box D when a sole proprietor is completing the Certification and Disclosure form or when an individual or entity whose contributions are attributable to the business entity is completing a separate Certification and Disclosure form.

Read the five statements of certification prior to signing.

The representative authorized to complete the Certification and Disclosure form must sign and print her/his name, title or position and enter the date.

State Agency Procedure for Submitting Form(s)

The State Agency should submit the completed and signed Two-Year Vendor Certification and Disclosure forms either electronically to: cd134@treas.nj.gov or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625-0230. Original forms should remain with the State Agency and copies should be sent to the Chapter 51 Review Unit.

Business Entity Procedure for Submitting Form(s)

The business entity should return this form to the contracting State Agency.

The business entity can submit the Certification and Disclosure form directly to the Chapter 51 Review Unit only when:

- · The business entity is approaching its two-year certification expiration date and is seeking certification renewal;
- · The business entity had a change in its ownership structure; OR
- The business entity made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

Questions & Information

Questions regarding Public Law 2005, Chapter 51 (N.J.S.A. 19:44A-20.13) or E.O. 117 (2008) may be submitted electronically through the Division of Purchase and Property website at: https://www.state.nj.us/treas/purchase/eo134questions.shtml.

Reference materials and forms are posted on the Political Contributions Compliance website at: http://www.state.nj.us/treasury/purchase/execorder134.shtml.

Division of Purchase and Property
Two-Year Chapter 51/Executive Order 117 Vendor Certification and
Disclosure of Political Contributions

| | FOR STAT | E USE ONLY | |
|--|--|-----------------------|---|
| Solicitation, RFP, or Contract No | | Awar | rd Amount |
| | | | |
| State Agency Name | Cont | act Person | |
| Phone Number | Cont | act Email | |
| Check if the Contract / Agreement | | | |
| Part 1: Business Entity Informa | ation | | Please check if requesting recertification □ |
| Full Legal Business Name | (Including trade | nama if annlicabl | ٥١ |
| | | | |
| | | | Phone |
| Vendor Email | Vendor FEIN | (SS# if sole prop | prietor/natural person) |
| Check off the business type | | uired information | n for the type of business selected. |
| Corporation: LIST ALL OFFICERS a Professional Corporation: LIST ALL Partnership: LIST ALL PARTNERS A Limited Liability Company: LIST All Sole Proprietor | OFFICERS and ALL SHA with any equity interest | AREHOLDERS "sole | he corporation only has one officer, please writ e officer" after the officer's name.) |
| Officer or Chief Financial Officer of a co | orporation, or any person | n routinely perform | |
| Also Note: "N/A will not be accepted a | s a valid response. Whe | re applicable, indica | ate "None." |
| All Officers of a Corporation | n or PC | 10% and g | greater shareholders of a corporation or <u>all</u> shareholders of a PC |
| | | | |
| All Equity partners of a Pa | artnership | | All Equity members of a LLC |
| | | | |
| If you need additional space for listing | of Officers, Shareholder | rs, Partners or Mem | nbers, please attach separate page. |

<u>Part 2: Disclosure of Contributions by the business entity or any person or entity whose</u> contributions are attributable to the business entity.

1. Report below all contributions solicited or made during the 4 years immediately preceding the commencement of negotiations or submission of a proposal to any:

Political organization organized under Section 527 of the Internal Revenue Code and which also meets the definition of a continuing political committee as defined in N.J.S.A. 19:44A-3(n)

2. Report below all contributions solicited or made during the 5 $\frac{1}{2}$ years immediately preceding the commencement of negotiations or submission of a proposal to any:

Candidate Committee for or Election Fund of any Gubernatorial or Lieutenant Gubernatorial candidate State Political Party Committee County Political Party Committee

3. Report below all contributions solicited or made during the 18 months immediately preceding the commencement of negotiations or submission of a proposal to any:

Municipal Political Party Committee Legislative Leadership Committee

| Full Legal Name of Recipient | | | | |
|---|--|--|--|--|
| Address of Recipient | | | | |
| Date of Contribution Amount of Contribution | | | | |
| Type of Contribution (i.e. currency, check, loan, in-kind) | | | | |
| Contributor Name | | | | |
| Relationship of Contributor to the Vendor | | | | |
| Remove Contribution Click the "Add a Contribution" tab to enter additional contributions. | | | | |
| Add a Contribution | | | | |
| ☐ Check this box only if no political contributions have been solicited or made by the business entity or any person or entity whose contributions are attributable to the business entity. | | | | |
| Part 3: Certification (Check one box only) | | | | |
| (A) \square I am certifying on behalf of the business entity <u>and all</u> individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under <u>Part 1: Vendor Information</u> . | | | | |
| (B) \square I am certifying on behalf of the business entity <u>and all</u> individuals and/or entities whose contributions | | | | |
| are attributable to the business entity as listed on Page 1 under <u>Part 1: Vendor Information</u> , except for the individuals and/or entities who are submitting separate Certification and Disclosure forms which are included with this submittal. | | | | |
| (C) I am certifying on behalf of the business entity only; any remaining persons or entities whose contributions are attributable to the business entity (as listed on Page 1) have completed separate Certification and Disclosure forms which are included with this submittal. | | | | |
| (D) \square I am certifying as an individual or entity whose contributions are attributable to the business entity. | | | | |
| I hereby certify as follows: | | | | |
| 1. I have read the Information and Instructions accompanying this form prior to completing the | | | | |

2. All reportable contributions made by or attributable to the business entity have been listed above.

certification on behalf of the business entity.

- 3. The business entity has not knowingly solicited or made any contribution of money, pledge of contribution, including in-kind contributions, that would bar the award of a contract to the business entity unless otherwise disclosed above:
 - a) Within the 18 months immediately preceding the commencement of negotiations or submission of a proposal for the contract or agreement to:
 - (i) A candidate committee or election fund of any candidate for the public office of Governor or Lieutenant Governor or to a campaign committee or election fund of holder of public office of Governor or Lieutenant Governor: OR
 - (ii) Any State, County or Municipal political party committee; OR
 - (iii) Any Legisative Leadership committee.
 - b) During the term of office of the current Governor or Lieutenant Governor to:
 - (i) A candidate committee or election fund of a holder of the public office of Governor or Lieutenant Governor; OR
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.
 - c) Within the 18 months immediately preceding the last day of the sitting Governor or Lieutenant Governor's first term of office to:
 - (i) A candidate committee or election fund of the incumbent Governor or Lieutenant Governor; OR
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.
- 4. During the term of the contract/agreement the business entity has a continuing responsibility to report, by submitting a new Certification and Disclosure form, any contribution it solicits or makes to:
 - (a) Any candidate committee or election fund of any candidate or holder of the public office of Governor or Lieutenant Governor; OR
 - (b) Any State, County or Municipal political party committee; OR
 - (c) Any Legislative Leadership committee.

The business entity further acknowledges that contributions solicited or made during the term of the contract/agreement may be determined to be a material breach of the contract/agreement.

5. During the two-year certification period the business entity will report any changes in its ownership structure (including the appointment of an officer within a corporation) by submitting a new Certification and Disclosure form indicating the new owner(s) and reporting said owner(s) contributions.

<u>I certify that the foregoing statements in Parts 1, 2 and 3 are true.</u> I am aware that if any of the statements are willfully false, I may be subject to punishment.

| Signed Name | Print Name | |
|----------------|------------|--|
| Title/Position | Date | |

Procedure for Submitting Form(s)

The contracting State Agency should submit this form to the Chapter 51 Review Unit when it has been required as part of a contracting process. The contracting State Agency should submit a copy of the completed and signed form(s), to the Chapter 51 Unit and retain the original for their records.

The business entity should return this form to the contracting State Agency. The business entity can submit this form directly to the Chapter 51 Review Unit only when it -

- Is approaching its two-year certification expiration date and wishes to renew certification;
- · Had a change in its ownership structure; OR
- Made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

Forms should be submitted either electronically to: cd134@treas.nj.gov, or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625.

ATTACHMENT #3

CONFIDENTIALITY & NON-DISCLOSURE AGREEMENT

Pages (5) Five

COMMISSIONERS

HOWARE L. BURRELL CHAIRMAN GLENWOOD, NJ

CHARLES P. SHOTMEYER VICE CHAIRMAN FRANKLIN LAKES, NJ

ALAN S. ASHKINAZE ORADELL, NJ

JEROME P. AMEDEO GREEN BROOK, NJ

DONALD C. KUSER WAYNE, NJ

ROBERT C. GAROFALO

BRIELLE, NJ

JAMES L. CASSELLA

EAST RUTHERFORD, NJ

representatives; and



ONE F.A. ORECHIO DRIVE
WANAQUE, NJ. 07465
973-835-800 FAX: 973-835-6701
E-Mail: commissionoutreach@njdwsc.com

TIMOTHY J. EUSTACE EXECUTIVE DIRECTOR

WILLIAM SCHAFFNER CHIEF FINANCIAL OFFICER

KIM DIAMOND COMMISSION SECRETARY

CONFIDENTIALITY AND NONDISCLOSURE AGREEMENT

| THIS CONFIDENTIALITY AND NONDISCLOSURE AGREEMENT (the "Agreement") is made and entered into as of this day of, 2022 by and between: |
|--|
| THE NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION (hereinafter, the "Commission"), located at One F.A. Orechio Drive, Wanaque, New Jersey 07465; and |
| |
| WITNESSETH |
| WHEREAS, pursuant to <u>N.J.S.A.</u> 58:5-1 <u>et seq.</u> , the Commission is a public body corporate duly organized and existing under and by virtue of the laws of the State of New Jersey, exercising public and essential governmental functions and providing for the public health and welfare, and is engaged in developing raw water sources, storing water and distributing a reliable supply of potable water to its participating municipalities; and |
| WHEREAS , the Commission fulfills a vital role in maintaining, overseeing, and securing the operation of the largest regional water supply in the State of New Jersey, the safety and security of said operation constituting a critical Homeland Security concern; and |
| WHEREAS, in order to facilitate the possibility of entering into a contract for goods and services, and in particular, the procurement process pertaining to CONTRACT #2087 CLARIFIER REHABILITATION, BASINS 1 – 4 Commission-Owned Facilities, and if entered into, the execution of such business relationship, the Commission may disclose certain |

WHEREAS, the Commission wishes to preserve the confidentiality and prevent the unauthorized disclosure and use of any such non-public or proprietary information disclosed to the Receiving Party and its representatives.

non-public or proprietary information to______ (or the "Receiving Party") and its

NOW THEREFORE, in consideration of the mutual promises, covenants, representations and warranties made in this Agreement, the receipt and sufficiency of which are hereby acknowledged by the parties, intending to be legally bound, hereby agree as follows:

- 1. "Information" means all non-public or proprietary information of the Commission disclosed in connection with this Agreement and shall include, but not be limited to, information regarding the Commission or its related entities' assets, liabilities, financial and other conditions, insurance, reinsurance, employees, consultants, operations, facilities, prospects, business plans, customer lists, or security arrangements. Information also includes any documents prepared by the Receiving Party that through the use of non-public proprietary Information that was provided to the Receiving Party by the Commission.
- 2. As a condition to receiving the Information which the Commission may furnish to the Receiving Party and its representatives or to which the Receiving Party and its representatives are afforded access, directly or indirectly, the Receiving Party and its representatives shall take all reasonable measures to avoid disclosure, dissemination or unauthorized use of Information, including, at a minimum, those measures that the Receiving Party takes to protect its own confidential information of a similar nature (provided that such measures are consistent with at least a reasonable degree of care).

3. Information does not include information that:

- a. Has been or becomes published or is now or in the future publicly available without breach of this Agreement or breach of a similar agreement by a third party or through no wrongful act of the receiving party or its representatives; or
- b. Is known to the Receiving Party prior to the time such information was acquired from the Commission under this Agreement as evidenced by the Receiving Party's contemporaneous written records; or
- c. Is independently developed and prepared by the Receiving Party not in reliance upon or reflecting any Information disclosed pursuant to this Agreement; or
- d. Subsequent to disclosure, is lawfully received from a third party having rights therein without restriction (to the best of the Receiving Party's knowledge) on the right of such third party or the Receiving Party to disseminate the information and without notice of any restriction against its further disclosure.
- 4. Information shall not, without the prior written consent of the Commission, be disclosed to any person or entity other than the Receiving Party's and its representatives' employees (including outside legal counsel, actuaries and accountants) who need to know the Information and in those instances only to the extent of such need. The Receiving Party agrees to keep all Information confidential, and further agrees to use Information solely for the evaluation stated above, and for no other purpose. The Receiving Party agrees that it and its representatives' employees (including outside legal counsel, actuaries and accountants) shall be informed of the terms of this Agreement.

- 5. All Information shall remain the exclusive property of the Commission, and the Receiving Party shall have no rights, by license or otherwise, to use Information except as expressly provided herein.
- 6. The Receiving Party agrees on its own behalf and on behalf of its representatives and/or assigns to return to the Commission or destroy, and verify in writing such destruction, all written, tangible or otherwise accessible material in any form (including electronic media such as computer diskettes, CD-ROM, electronic copies or any material resident in the hard or external drive of any computer) containing or reflecting any Information (including all copies, summaries, excerpts, extracts, notes or other reproductions) promptly at the request of the Commission or within sixty (60) days of the termination or conclusion of the parties' business or contractual relationship. All information retained by the Receiving Party pursuant to this Section 6 shall remain subject to the confidentiality and nondisclosure obligations of this Agreement. Notwithstanding anything to the contrary in this Agreement, the Receiving Party may retain one copy of Information that has become part of a file that the Receiving Party, in its reasonable judgment, is required to retain and/or make available for examination by government regulatory or investigatory agencies, or retain and/or produce by an order of a court or insurance regulatory agency.
- 7. Nothing in this Agreement shall impose any obligation upon either party to consummate a transaction, to enter into any discussion or negotiations with respect thereto, or to take any other action not expressly agreed to herein.
- 8. In the event that the Receiving Party receives a request to disclose all or any part of the Information as part of a governmental investigation or under the terms of a subpoena or order issued by a court or governmental body, the Receiving Party will take all reasonable steps to notify the Commission promptly in writing of such request in order to allow the Commission an opportunity to resist or narrow such request and will reasonably cooperate, at the Commission's expense, with the Commission and its representatives in connection with the Commission's efforts to resist or narrow such request. In the event that the Commission elects to waive the provisions of this Section 8 or is otherwise unsuccessful in resisting such request, the Receiving Party shall only disclose the Information that it determines it is legally required to disclose after consultation with competent counsel.
- 9. Except as required by applicable law or court or arbitral order, neither party shall in any way or in any form disclose (except as necessary to such party's outside legal counsel, actuaries and accountants), publicize or advertise in any manner the discussions or negotiations concerning the business purpose underlying this Agreement, or the status of any such discussions or negotiations without the consent of the other party.
- 10. This Agreement shall be deemed to be a contract made under the laws of the State of New Jersey and for all purposes shall be construed in accordance with the laws thereof. The parties agree that any and all disputes between the parties under or relating to the terms and conditions of this Agreement shall be fully and completely adjudicated in the courts of the State of New Jersey.

- 11. Any provision of this Agreement which may be prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof or affecting the validity or enforceability of such provision in any other jurisdiction.
- 12. Neither this Agreement nor any rights or obligations hereunder may be assigned by either party hereto without the prior written consent of the other party, and such consent shall not be unreasonably withheld, delayed or conditioned. This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns. No permitted assignment shall relieve a party of its obligations hereunder with respect to Information disclosed prior to the assignment. Any assignment in violation of this Paragraph Thirteen (12) shall be deemed null and void.
- 13. No amendment to any provision of this Agreement shall be binding and enforceable unless in writing and signed by both of the parties and specifically referencing this Agreement.
- 14. This Agreement shall continue to be binding after the conclusion of the business or contractual relationship between the parties absent prior written consent of both parties.
- 15. This Agreement shall not be interpreted in a manner that would violate any applicable cannons of ethics or codes of professional responsibility. Nothing in this Agreement shall prohibit or interfere with the ability of counsel for any party to represent any individual, corporation, or other entity adverse to any party or its affiliate(s) in connection with any other matters.
- 16. Each of the parties acknowledges and agrees that remedies at law may be inadequate to protect the Commission against any actual or threatened breach of this Agreement by the Receiving Party or its representatives, and, without prejudice to any other rights and remedies otherwise available to the Commission (including, without limitation, monetary damages), the Receiving Party agrees to the granting of specific performance and injunctive or other equitable relief in the Commission's favor without proof of actual damages and each of the parties further agrees to waive, and to use all reasonable efforts to cause its representatives to waive, any requirement for the securing or posting of any bond in connection with any such remedy. Nothing in this Agreement shall be deemed or construed to limit or prevent the Commission from bringing a claim for damages as a result of any actual or threatened breach of this Agreement by the Receiving Party or its representatives.
- 17. Each of the parties agrees that no failure or delay by the Commission in exercising any right or remedy hereunder will operate as a waiver thereof, nor will any single or partial exercise thereof preclude any other or further exercise of any right or remedy hereunder.
- 18. This Agreement was entered into solely to benefit the parties and no other person or entity shall have enforceable rights and remedies hereunder or hereby.

- 19. This Agreement may be executed in one or more counterparts (including via facsimile), each of which shall be deemed an original but all of which together shall constitute one in the same instrument.
- 20. This Agreement sets forth the entire understanding between the parties concerning the subject matters of the foregoing recitals and paragraphs.

IN WITNESS HEREOF, the parties have caused this Agreement to be executed by their authorized representatives on the date first written.

| | (CONTRACTOR) | NORTH JERSEY DISTRICT WATER SUPPLY COMMISSION | | N |
|----------|--------------|--|-----|---|
| By: | | By: | | |
| Name: _ | | Name: | ne: | |
| Title: _ | | Title: | e: | |

ATTACHMENT #4

DISCLOSURE OF INVESTMENT IN IRAN

Pages (1) One

STATE OF NEW JERSEY -- DIVISION OF PURCHASE AND PROPERTY DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN

| Quote Number: | Bidder/Offeror: | |
|---------------|-----------------|--|

PART 1: CERTIFICATION BIDDERS MUST COMPLETE PART 1 BY CHECKING EITHER BOX. FAIL LIRE TO CHECK ONE OF THE ROXES WILL BENDER THE PROPOSAL NON-DESPONS

| | | BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE. |
|--|---|---|
| contra subsi in Ira must non-i | act must complete the certification below to attes diaries, or affiliates, is identified on the Department. The Chapter 25 list is found on the Division's review this list prior to completing the below ceresponsive. If the Director finds a person or entity | ntity that submits a bid or proposal or otherwise proposes to enter into or renew a st, under penalty of perjury, that neither the person or entity, nor any of its parents, at of Treasury's Chapter 25 list as a person or entity engaging in investment activities is website at http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf . Bidders rification. Failure to complete the certification will render a bidder's proposal by to be in violation of law, s/he shall take action as may be appropriate and provided apposing sanctions, seeking compliance, recovering damages, declaring the party in arty |
| PLEAS | E CHECK THE APPROPRIATE BOX: | |
| | subsidiaries, or affiliates is <u>listed</u> on the N.J. activities in Iran pursuant to P.L. 2012, c. 25 ("C | 25, that neither the bidder listed above nor any of the bidder's parents, Department of the Treasury"s list of entities determined to be engaged in prohibited chapter 25 List"). I further certify that I am the person listed above, or I am an officer im authorized to make this certification on its behalf. I will skip Part 2 and sign and |
| | OR | |
| | the Department's Chapter 25 list. I will provide and sign and complete the Certification be | bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on de a detailed, accurate and precise description of the activities in Part 2 below elow. Failure to provide such will result in the proposal being rendered as non-or sanctions will be assessed as provided by law. |
| Na | ROUGH ANSWERS TO EACH QUESTION. IF YO A | NFORMATION RELATIVE TO THE ABOVE QUESTIONS. PLEASE PROVIDE OU NEED TO MAKE ADDITIONAL ENTRIES, CLICK THE "ADD AN ADDITIONAL CTIVITIES ENTRY" BUTTON. Relationship to Bidder/Offeror |
| | | |
| Du | ration of Engagement | Anticipated Cessation Date |
| Bid | der/Offeror Contact Name | Contact Phone Number |
| 1 | | |
| | ADD AN ADDITIONAL ACTIVITIES ENTRY | |

DPP Standard Forms Packet 11/2013