

**REQUEST FOR PROPOSALS
FOR CONSULTING ENGINEERING SERVICES
DISTRIBUTION MAIN DESIGN PROJECTS 2020-2021
ECWA Project No. 202000002**

A. General

The Erie County Water Authority (Authority) will accept proposals for consulting engineering services for the 2020-2021 distribution main design projects.

The Authority reserves the right to modify or cancel this Request for Proposals and/or the projects; to reject any or all proposals; and to waive any or all irregularities. This Request for Proposals does not obligate the Authority to award a contract for any of the projects or to reimburse any costs associated with the preparation of any proposal.

The Request for Proposal (RFP) is being conducted pursuant to the New York State Finance Law §§139-j and 139-k and the Erie County Water Authority's Procurement Disclosure Policy. The Procurement Disclosure Policy is available by accessing the Erie County Water Authority's web site – <http://www.ecwa.org>, under the caption "Doing Business".

B. Project Description

The Authority is planning to replace several distribution mains in 2020 and 2021. The projects will be in Direct Service areas owned and operated by the Authority. The projects are scheduled for design in 2020 with construction in 2021.

The project will entail the following seven (7) contracts:

Contract A

Critical Infrastructure Improvements – Project will consist of the installation of a new 16-inch diameter waterline on Greiner Road in Clarence from Transit Road to Via Del Sol (approximate length of 4,600 LF) with the abandonment of a 6" waterline from Transit Road to Vista Avenue. New waterline will parallel an existing waterline in that area, adding a redundant pipe to the distribution system. All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality and redundancy of existing and proposed waterlines in case of a waterline failure in the area. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design. Project also includes the removal and replacement of three (3) meter pits in the Town of Aurora. Design shall include the concrete chambers, internal piping, sumps, hatch covers, and all other work necessary for a complete installation. Approximately 100 LF of pipe outside each existing meter pit will be necessary to be replaced under this contract, for a total of 300 LF. Project also includes the abandonment of an existing 6-inch diameter steel pipeline which runs east from 4422 Arondale Road to 8550 Main Street in the Town of Clarence (runs between houses 4421 and 4427 and crosses Harris Hill Road). Service transfers will be required for houses 4416 and 4420 Harris Hill Road which

connect to this existing steel waterline. Service transfers will be required for houses 4430 through 4470 which connect to an existing 2-inch line on the western side of Harris Hill Road, which is also to be abandoned under this contract.

Contract B

Replacements of Undersized Distribution Mains – Project will consist of the replacement of existing waterlines on multiple streets in the Town of West Seneca, Town of Cheektowaga, and the Village of Depew with minimum 8-inch diameter waterlines. New waterline will be installed on Trier Avenue from Orchard Avenue to North Avenue (approximately 400 LF), service transfers to the existing 8-inch on Burch Avenue from Indian Church Road to Manhasset Street (with abandonment of the existing 4-inch line and 6-inch line), and service transfers to the existing 6-inch on Chamberlin Drive from 74 to 105 Chamberlin Drive (with abandonment of the 4-inch line), all in the Town of West Seneca. New waterline will be installed on Garden Road from Beach Road to 20 Garden Road (approximately 400 LF), on Ellen Drive from Virginia Road to 36 Ellen Drive (approximately 300 LF), on Wing Court from Burdette Drive to end of cul-de-sac (approximately 600 LF), on Clover Place from Union Road to 255 Clover Place (approximately 200 LF), on Meadow Place from Cherokee Drive to Genesee Street (approximately 1,500 LF), and on Duchess Court from Beach Road to end of cul-de-sac (approximately 750 LF) all in the Town of Cheektowaga. New waterline will be installed on Kokomo Street and Short Street from Wenona Street to Broadway (approximately 750 LF), on Muskingum Street from Main Street to Saint James Street (approximately 1,150 LF), on Erie Street from Broadway to Terrace Boulevard (approximately 750 LF), on Broadway from Penora Street to Calumet Street (approximately 550 LF), on Calumet Street from Broadway to Terrace Boulevard (approximately 1,000 LF), on Rossiter Avenue from Sherwood Court to George Urban Boulevard (approximately 600 LF), and service transfers to the existing 6-inch waterline on Lincoln Street from 80 to 114 Lincoln Street (with abandonment of the existing 2-inch line) all in the Village of Depew.

All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

Contract C

Town of Cheektowaga and Village of Lancaster Upgrades - Project will consist of the replacement of existing waterlines on multiple streets in the Town of Cheektowaga and the Village of Lancaster with minimum 8-inch diameter waterlines. New waterline will be installed on Shanley Street from Clinton Street to the dead-end (approximately 1,450 LF), on Griswold Street from Shanley Street to South Rossler Avenue (approximately 1,050 LF), on Pleasant Parkway from Griswold to the dead-end (approximately 375 LF), on Meadowbrook Parkway from Griswold Street to the dead-end (approximately 500 LF), and on Willowlawn Parkway from Griswold Street to the dead-end (approximately 450 LF) all in the Town of Cheektowaga. New waterline will be installed on Sturm Street from Laverack Avenue to 83 Sturm Street (approximately 525 LF), on Scott Street from School Street to Holland Avenue (approximately 500 LF), on Holland Avenue from Scott Street to Winfield Avenue (approximately 350 LF), and

on Aurora Street from Camner Avenue to Doris Avenue (approximately 1,350 LF) all in the Village of Lancaster.

All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

Contract D

City of Lackawanna and Town of Hamburg Upgrades – Project will consist of the replacement of existing waterlines on multiple streets in the City of Lackawanna and Town of Hamburg with minimum 8-inch diameter waterlines. New waterline will be installed on Roland Avenue from Myrtle Avenue to South Park Avenue (approximately 2,100 LF), on Myrtle Avenue from Milnor Avenue to the dead end (approximately 500 LF), on Kirby Avenue from Center Street past the dead-end to a point approximately 400 LF behind house 33 Warsaw Street (approximately 900 LF), on North Drive from 40 North Road to the dead-end (approximately 650 LF), on South Fisher Road from North Road to 4 South Fisher Road (approximately 300 LF), on Milnor Avenue from Myrtle Avenue to Trella Place (approximately 100 LF), on Trella Place from Milnor Avenue to Piggens Alley (approximately 150 LF) and on Cleveland Avenue from Mitchell Place to South Park Avenue (approximately 1,900 LF) all in the City of Lackawanna. New waterline will be installed on Ellsworth Avenue from Ontario Avenue to Adams Street (approximately 1,300 LF), on Adams Street from Ellsworth Avenue to Park Avenue (approximately 350 LF), on Ontario Avenue from Ellsworth Avenue to Garfield Avenue (approximately 350 LF), on Lyth Road from Willet Road to the dead-end (approximately 1,300 LF), and on Nash Road from Van Peyma Road to Camp Road (approximately 700 LF) all in the Town of Hamburg.

The project will cross existing railroad tracks west of Kirby Avenue and be mainly located within an easement owned by other agencies. Boring or horizontal directional drilling of the railroad tracks are expected in this project. All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

Contract E

Town of Amherst and Town of Cheektowaga Upgrades - Project will consist of the replacement of existing waterlines on multiple streets in the Town of Amherst and Town of Cheektowaga with minimum 8-inch diameter waterlines. New waterline will be installed on Kensington Avenue from Lamarck Drive to Main Street (approximately 2,600 LF), and on Smallwood Drive from north of Northledge Drive to Lakewood Parkway (approximately 800 LF) in the Town of Amherst. New waterline will be installed on Linden Street from William Street to the dead-end (approximately 1,050 LF), and on Vern Lane from William Street to Dowmer Place (approximately 2,000 LF) in the Town of Cheektowaga.

All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed

waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

Contract F

French Road Upgrades - Project will consist of the replacement of existing waterlines on French Road in the Town of Cheektowaga with a minimum 12-inch diameter waterline. New waterline will be installed on French Road from Mayberry Drive West to Borden Road (approximately 8,500 LF) in the Town of Cheektowaga.

All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

Contract G

George Urban Boulevard Upgrades - Project will consist of the replacement of existing 6-inch waterlines on George Urban Boulevard in the Town of Cheektowaga with a minimum 12-inch diameter waterline. New waterline will be installed on George Urban Boulevard from Cherokee Drive to Union Road (approximately 850 LF), and on George Urban Boulevard intermittently (and as defined by the Authority) between Harlem Road and Wheaton Drive (approximately 7,150 LF). The existing 24-inch waterline on George Urban will not be replaced under this contract, however, interconnections between the existing 24-inch line and new waterline are included in this contract.

All valving, hydrants, abandonments, interconnections, and appurtenances shall be included in the design. Project includes a hydraulic analysis to demonstrate functionality of proposed waterlines. Pipe materials to use, sizes, and interconnection details to various existing pipes will be necessary during the design.

C. Scope of Work

The general scope of work for each phase is summarized below. The methods of payment shall be per the Authority standard form of Professional Services Contract, a copy of which is available upon request.

1. Survey

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Obtain field topographic survey data for the preparation of construction plans required for final design of the project. Survey data is to be according to NAD83 and NAVD88 datums and the New York State Plane Coordinate System – West Zone.

2. Design

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Prepare detailed design drawings, specifications and contract documents. Tasks include, but are not limited to:

- 1) Conferences with the Authority, agencies, etc.
 - 2) Review of available drawings and records furnished by the Authority.
 - 3) Preparation of base drawings in AutoCAD version 2017 from the survey data obtained in the survey phase and the available records furnished by the Authority.
 - 4) Hydraulic analysis to determine the size of the proposed transmission watermain.
 - 5) Evaluate the use of temporary waterlines to facilitate the installation of the proposed waterlines in areas where extensive rock excavation is anticipated.
 - 6) Evaluate the use of trenchless technologies such as re-lining and pipe bursting.
 - 7) Preparation of engineering calculations to support the design of the improvements, including related civil, mechanical, electrical, structural, and architectural features of the project.
 - 8) Submission of the plans to various utility companies and agencies, as required, to incorporate all existing utilities within the project limits.
 - 9) Coordination with all municipalities and agencies having jurisdiction within the project limits.
 - 10) Preparation of final plans, profiles, and job specific detail drawings that include editing of the Authority's standard detail drawings where appropriate.
 - 11) Preparation of contract specifications that include editing of the Authority's standard "front end" specifications and standard technical specifications where appropriate and preparation of additional technical specifications as required.
 - 12) Obtaining New York State Wage Rates and inserting them into the specifications.
 - 13) Preparation of a quantity take-off and a construction cost estimate.
 - 14) Preparation of an engineering report and submission with contract specifications, drawings, application forms and fees to Erie County Health Department for approval.
 - 15) Report to the Authority bi-weekly on the progress of the design work with a written bi-weekly summary of the work performed in that time period, providing project schedule updates and forecasting future work and project costs.
 - 16) Costs to obtain geotechnical quotes and coordinate geotechnical work are included in the proposal.
 - 17) Evaluate available pipe materials and recommend pipe type(s) to use based on site geometry and soil conditions.
 - 18) Provide submittals to the Authority at 30, 70, 95, and 100 percent completion.
 - 19) Attendance at a final design meeting with the Authority.
- b. Prepare engineering data, where necessary, with regard to regulatory permit applications as required to obtain local, state, federal and public utility approval for the initiation and construction of the work.

- c. Furnish to the Authority five (5) sets of drawings, specifications and other contract documents, for final review by the Authority and other approving agencies.
- d. Prepare documentation for compliance with New York State SEQR (Type II actions).
- e. Prepare a schedule for the project utilizing the Authority's standard format. The project schedule shall be updated bi-weekly and as needed.

3. **General Services**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Furnish twenty (20) sets of contract drawings, final specifications, and other documents required for bidding and construction purposes for each contract.
- b. Conduct a pre-bid meeting when appropriate.
- c. Prepare and distribute addenda.
- d. Provide assistance to the Authority in securing bids, tabulating bid results, analyzing bid results, and making recommendations on the award of each construction contract.
- e. Provide pre-construction meeting notice to all municipalities, utility companies, fire districts, and all other interested parties, conduct a pre-construction meeting and distribute minutes.
- f. Supply an approved contractor's schedule for construction of the project.
- g. Provide detailed initial stakeout (once only), including bench marks, reference and axis lines along the routes of the construction or where necessary.
- h. Give consultation and advice to the Authority during construction.
- i. Prepare elementary sketches and supplementary sketches, if required, to resolve actual field conditions encountered.
- j. Interpret contract documents and resolve problems as to amount, quality, acceptability, and fitness.
- k. Review the contractor's submittals of material and/or equipment for compliance with the Consultant's design concept and take appropriate action such as but not limited to: "approved", "approved as corrected", "revise and resubmit"; or "not approved".
- l. Furnish general construction inspection as to quality and quantity of the contractor's work as the construction progresses in order to recommend partial payment.
- m. Coordinate with all Authority's customers within the project area regarding the construction work.
- n. Schedule and attend progress meetings.
- o. Report to the Authority bi-weekly on the progress of the work with a written bi-weekly summary of the work performed in that time period, providing project schedule updates and forecasting future work and project costs. Also include daily inspector reports.
- p. Notify the Authority when a change in the work is proposed which will cause an adjustment in the contract cost. Evaluate whether the proposed change is justified and reasonable, and if necessary prepare change orders, field directives, and make recommendations for approval. Discuss changes in the plans or procedures authorized by the Consultant with the Authority prior to implementation. Obtain

- approval for all change orders from the Board of Commissioners prior to implementation.
- q. When new waterlines are placed into service, notify the appropriate fire districts in writing, identifying addresses of new hydrants placed into service and existing hydrants soon to be removed from service. A copy of this letter shall also be sent to the Authority.
 - r. Check line and grade for preparation of record drawings.
 - s. Make a final inspection, furnish a report on project completion, and make recommendations for final payments to contractors and for the release of retained amounts, if any.

4. **Resident Inspection**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Provide technical inspection of construction by a full-time resident engineer and/or inspectors as required, who will:
 - 1) Inspect all work to determine the progress, quality, quantity and conformance of the work in accordance with contract documents.
 - 2) Notify customers in writing prior to start of construction.
 - 3) Prepare daily inspector reports.
 - 4) Review, verify and approve requests for monthly and final payments to contractors, based on quantities of work put in place.
 - 5) Provide bi-weekly updates summarizing the Resident Inspection costs and projecting future Resident Inspection costs for the duration of the project.
- b. For Resident Inspection services, the Consultant shall provide an hourly rate that is fully loaded (direct hourly rate, overhead and profit). Overtime premium will be paid at 50% of the Resident Inspectors' direct hourly rate. Consultant shall breakdown its direct hourly rate, its audited overhead rate for inspection services and its profit percentage.
- c. Once a bid has been awarded, the contract will set an estimated amount and a not-to-exceed amount for Resident Inspection services. Before reaching the not-to-exceed amount for Resident Inspection, the Consultant must seek approval from the Authority's Board of Commissioners to increase the amount of the Resident Inspection based on the realistic number of hours to complete such services.
- d. Consultant **shall provide an estimate** for the number of Resident Inspection hours for each project.

5. **Record Drawings**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Provide record drawings, including the basemapping, (on AutoCAD Version 2017) of all completed work according to the latest ECWA As-Built Standards. Update the existing ECWA valve and hydrant details to reflect the completed work. Furnish one set of mylar transparencies and all AutoCAD files on CD of these drawings to the Authority.
- b. Provide horizontal and vertical coordinates using survey grade Real Time Kinematic (RTK) GPS with horizontal centimeter level accuracy and best possible vertical precision given the environmental conditions during collection

for all mainline valves, hydrants, hydrant valves, permanent blow-offs, and meter pits. Coordinates shall be presented as points within an ESRI geodatabase feature class, or provided in Microsoft Excel, Microsoft Access, or .dbf format. At a minimum, the coordinate file shall contain a Northing, Easting, Elevation, horizontal precision, vertical precision, and Description for each feature.

- c. Provide copies of all photographs (digital and print) taken during the course of the design and construction work.
- d. Record Drawings and coordinates to be based on the NY State Plane Coordinate System – West Zone. Data is to be according to NAD83 and NAVD88 datums. Coordinates shall be provided in Microsoft Excel, Microsoft Access, or .dbf format. At a minimum, the coordinate file shall contain a Northing, Easting, Elevation, and Description for each feature.
- e. Submit mylar transparencies, AutoCAD files, and GPS coordinates no later than one month after final payment of the Construction Contract is recommended for approval and in accordance with Authority Standards.

6. **Special Services**

The Authority may require the Consultant to provide or arrange for and assist in obtaining one or more of the following special services in carrying out the project. Because it is not possible to determine in advance the need for or the cost of such services, these are included as separate elements of cost which shall be separately negotiated. These services include:

- a. Soils Investigations - including test borings, pavement cores, and the related analysis.
- b. Detailed mill, shop and/or laboratory inspection of materials and equipment.
- c. Land surveys, maps, plates, descriptions and title investigations which may be required to acquire lands, easements, and rights-of-way for the proposed facilities.
- d. Additional copies of reports, contract drawings and documents.
- e. Extra travel and subsistence for the Consultant and his staff beyond that normally required under ordinary circumstances, when authorized by the Authority.
- f. Assistance to the Authority serving as an expert witness in litigation arising from project development or construction.
- g. New York State SEQR (Type I and Unlisted Actions).
- h. Air, water, and/or soil sampling, testing, and/or analysis.
- i. Operation and maintenance manuals.
- j. Start-up services.
- k. Hazardous material testing and assessment.
- l. Development of Maintenance and Protection of Traffic (MP&T) plans not included in the original scope of work.
- m. Assistance with NYSDOT and ECDPW permitting.
- n. Steady State and/or Extended Period Simulation hydraulic modeling and calibration.
- o. Wetlands investigations, delineation, and mitigation.

D. Information Requests

All questions and requests for information are to be directed to the designated ECWA Contact Person, Mr. Leonard F. Kowalski, PE, Executive Engineer at 716-685-8220, in accordance with New York State Finance Law §§139-j and 139-k.

E. Proposal Requirements

Firms may submit proposals for one or both projects. Separate proposals are not required. Proposals are to be concise, specific and straightforward. All pertinent information is to be contained in the proposal. The use of artwork, special covers, and extraneous information in the proposals is discouraged. Proposals are to remain valid for a minimum of 60 days. Each proposal is to include the following:

- Item 1 - Qualifications and related experience, particularly on the type of projects outlined above.
- Item 2 - Project understanding, technical approach and detailed scope of services. Identify any suggested modifications to the Scope of Work in Section C.
- Item 3 - Project staffing for all key personnel and subcontractors; current workload; and office location(s) where work will be performed for each project.
- Item 4 - Qualifications of resident inspector(s) including applicable education, training, experience, and NICET certification.
- Item 5 - Work performed for the Authority in 2017, 2018, and 2019.
- Item 6 - Current remaining workload with the Authority.
- Item 7 - Completed attachment titled Section 139 of State Finance Law per attached.
- Item 8 - Proof of insurance in accordance with the attached Erie County Water Authority Insurance Requirements for Professional Services per attached.
- Item 9 - Fee proposal which is to include a breakdown of engineering fees for each construction contract showing personnel, hours, hourly rates, overhead rates, and subcontractor costs for each phase per the scope of work. All consultants shall include Special Services lump sum cost of \$50,000 for the purposes of this proposal.

Proposals shall include the following form for comparison purposes:

Project 202000002 – RFP for Distribution Main Design Projects, 2020-2021	
Survey	\$
Design	\$
General Services	\$
Resident Inspection	\$
Record Drawings	\$

Special Services	\$ 50,000.00
TOTAL:	\$

* A separate form shall be provided for each contract.

Proposals will be accepted until 4:00 p.m. on Friday, January 17, 2020. Four copies of each proposal are to be delivered to Erie County Water Authority, 3030 Union Road, Buffalo, New York 14227 to the attention of Mr. Leonard F. Kowalski, PE, Executive Engineer. Proposals received after this time will not be considered and will be returned unopened. All proposals being mailed (including Federal Express, UPS, Priority Mail, etc.) or hand delivered shall be directed to the attention of Mr. Kowalski in a sealed envelope and be clearly marked on the outside of the mailing or hand delivered envelope as follows: "PROPOSAL – DISTRIBUTION MAIN DESIGN PROJECTS 2020-2021"

F. Evaluation and Selection

All proposals will be evaluated by a small in-house committee made up of Authority personnel familiar with the proposed project. Interviews and/or presentations of the proposals will be requested if needed. The proposals will be evaluated based on the criteria listed above.

The final scope of work and fee for the engineering services for the project will be negotiated with the selected firm. A Professional Service Contract will then be executed pending successful negotiation and authorization by the Authority Board of Commissioners. All firms submitting proposals will be notified of the selection results. It is anticipated that the selection process will be completed in January 2020 and that the agreement will be executed in January/February 2020.

**REQUEST FOR PROPOSALS
FOR CONSULTING ENGINEERING SERVICES
DISTRIBUTION MAIN DESIGN PROJECTS 2020-2021
ECWA PROJECT No. 202000002**

Insurance Specs:

The following minimum insurance requirements shall apply to vendors providing services to the Erie County Water Authority (ECWA). If a service or project, in the opinion of ECWA, represents an unusual or exceptional risk, ECWA may establish additional insurance requirements for that service or project. All insurance required herein shall be obtained at the sole cost and expense of the contractor, including deductibles and self-insured retentions, and shall be in full force and effect on the contract commencement date and for the duration of the contract. These requirements include but are not limited to the minimum insurance requirements.

Insurance Requirements:

a. Workers Compensation:

Part 1: Workers Compensation: Statutory

Part 2: Employers Liability: \$1,000,000.

Note: If New York State domiciled employees are used, coverage to be New York Statutory for both Parts 1 and 2

b. New York Disability Benefits Liability: Statutory coverage if New York State domiciled employees are used.

c. Commercial General Liability:

- \$2,000,000. General Aggregate
- \$2,000,000. Products/Completed Operations Aggregate
- \$1,000,000. Each Occurrence
- \$1,000,000. Personal Injury/Advertising Liability
- Erie County Water Authority to be scheduled as an Additional Insured for both on-going and completed operations (attach Additional Insured endorsement to Certificate of Insurance)
- Insurance to be primary and non-contributory
- Per project aggregate shall apply

d. Automobile Liability:

- \$1,000,000. Each Accident
- Erie County Water Authority to be scheduled as an Additional Insured.

e. Umbrella Liability:

- \$5,000,000. Each Occurrence
- \$5,000,000. Aggregate

- Erie County Water Authority to be scheduled as an Additional Insured
- Per project aggregate shall apply

f. Professional Liability

- \$1,000,000 Per Claim
- \$1,000,000 Aggregate

Certificates of Insurance to be provided to **ECWA** prior to start of work as follows:

ACORD 25 (Item a-e) including copy of Additional Insured Endorsement Note: If coverage provided for NYS domiciled employees require Forms C 105.2 and DB 120.1 for Workers Compensation and NYS DBL.

Certificates of Insurance, on forms approved by the New York State Department of Insurance, must be submitted to ECWA prior to the award of contract. Renewals of Certificates of Insurance, on forms approved by the New York State Department of Insurance, must be received by ECWA 30 days prior to the expiration of the insurance policy period.

Certificates of Insurance and renewals, on forms approved by the New York State Department of Insurance, must be submitted to ECWA prior to the award of contract. Each insurance carrier issuing a Certificate of Insurance shall be rated by A. M. Best no lower than “A-” with a Financial Strength Code (FSC) of at least VII. The professional service provider shall name ECWA, its officers, agents and employees as additional insured on a Primary and Non-Contributory Basis, including a Waiver of Subrogation endorsement (form CG 20 26 11 85 or equivalent), on all applicable liability policies. Any liability coverage on a “claims made” basis should be designated as such on the Certificate of Insurance. Such insurance shall continue through the term of this Agreement and vendor shall purchase at his sole expense either 1) an Extended Reporting Endorsement (also, known as Tail Coverage); or 2) Prior Acts Coverage from new insurer with a retroactive date back to the date of, or prior to, the inception of this Agreement; or 3) demonstrate through Certificates of Insurance that vendor has Maintained continuous coverage with the same or original insurer. Coverage provided under items; 1), 2), or 3) will continue as long as the law allows.

To avoid confusion with similar insurance company names and to properly identify the insurance company, please make sure that the insurer’s National Association of Insurance Commissioners (N.A.I.C.) identifying number or A. M. Best identifying number appears on the Certificate of Insurance. Also, at the top of the Certificate of Insurance, please list the project number.

Acceptance of a Certificate of Insurance and/or approval by ECWA shall not be construed to relieve the outside vendor of any obligations, responsibilities or liabilities.

Certificates of Insurance should be e-mailed to mmusarra@ecwa.org or mailed to Ms. Molly Jo Musarra, ECWA Claim Representative/Risk Manager Erie County Water Authority, 295 Main Street – Room 350, Buffalo, New York 14203-2494, or If you have any questions you can contact Ms. Musarra by e-mail or phone (716) 849-8465.

FORMS A, B, and C

STATE FINANCE LAW REQUIREMENTS

The Erie County Water Authority (the “Authority”) is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). When the Authority seeks to procure goods or services by means of an Invitation or Notice to Bid, or a Request for Proposals, the State Finance Law imposes certain restrictions on anyone who may wish to offer goods or services to the Authority as an Offerer, as that term is defined in §§ 139-j(1)(h) and 139-k(1)(h).

During the Restricted Period, as defined in §§ 139-j(1)(f) and 139-k(1)(f), when bids or proposals are being solicited, the Authority will designate a contact person with whom the Offerer may contact for information and other authorized purposes as set forth in §139-j of the State Finance Law. The designated contact is identified in the Notice to Bidders, or in the Request for Proposal. An Offerer is authorized to contact the Authority’s designated contact for such purposes as set forth in § 139-j(3).

Pursuant to the State Finance Law, the Authority is also required to make certain findings before making any determinations as to the qualifications and eligibility of those seeking a procurement contract, as that term is defined in State Finance Law §§ 139-j(1)(g) and 139-k(1)(g). Certain findings of non-responsibility can result in rejection for contract award and in the event of two findings of non-responsibility occurring within a 4-year period, the Offerer will be debarred from obtaining procurement contracts with the Authority. Further information about these requirements can be found in §§139–j and 139–k of the New York State Finance Law and the Erie County Water Authority’s Procurement Disclosure Policy.

The following forms will be used by the Authority to make such findings:

Form A - Offerer’s Affirmation of Understanding of, and Agreement to Comply with, the Authority’s Permissible Contact Requirements During the Restricted Period.

Form B - Offerer’s Certification of Compliance with State Finance Law.

Form C - Offerer’s Disclosure of Prior Non-Responsibility Determinations.

FORM A

Offerer's Affirmation of Understanding of, and Agreement to Comply with, the Permissible Contact Requirements During the Restricted Period

Instructions:

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). The Authority must obtain a written affirmation of understanding and agreement to comply with procedures regarding permissible contacts with the Authority in the restricted period for a procurement contract in accordance with State Finance Law §139-j and §139-k. It is required that this affirmation be obtained as early as possible in the procurement process, but no later than when the Offerer submits its proposal.

Offerer affirms that it understands and agrees to comply with the procedures of the Authority relative to permissible contacts as required by State Finance Law §139-j(3) and §139-j(6)(b).

By: _____ Date: _____

Name: _____

Title: _____

Contractor Name: _____

Contractor Address: _____

FORM B

Offerer's Certification of Compliance With State Finance Law §139-k(5)

Instructions:

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). The Authority must obtain a Certification that the information submitted for a procurement contract is complete, true, and accurate regarding any prior findings of non-responsibility, such as non-responsibility pursuant to State Finance Law §139-j. The Offerer must agree to sign the Certification, under penalty of perjury, and to provide the Certification to the Authority. The Certification should be obtained as early as possible in the process, but no later than when an Offerer submits its proposal.

Offerer Certification:

I certify that all information provided to the Authority relating to the awarding of a procurement contract is complete, true, and accurate.

By: _____ Date: _____

Name: _____

Title: _____

Contractor Name: _____

Contractor Address: _____

FORM C**Offerer's Disclosure of Prior
Non-Responsibility Determinations****Background:**

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). New York State Finance Law §139-k(2) obligates the Authority to obtain specific information regarding prior non-responsibility determinations with respect to State Finance Law §139-j. In accordance with State Finance Law §139-k, an Offerer must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j; or (b) the intentional provision of false or incomplete information to a Government Entity.

The terms "Offerer" and "Governmental Entity" are defined in State Finance Law §§139-j(1) and §139-k(1). These sections also set forth detailed requirements about the restrictions on contacts during the procurement process. A violation of State Finance Law §139-j includes, but is not limited to, an impermissible contact during the restricted period (for example, contacting a person or entity other than the designated contact person, when such contact does not fall within one of the exemptions).

As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether an Offerer fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with law, no Procurement Contract shall be awarded to any Offerer that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the Procurement Contract to the Offerer is necessary to protect public property or public health safety, and the Offerer is the only source capable of supplying the required Article of Procurement, as that term is defined in State Finance Law §§ 139-j(1)(b) and 139-k(1)(b), within the necessary timeframe. See State Finance Law §139-j(10)(b) and §139-k(3).

Instructions:

The Authority must include a disclosure request regarding prior non-responsibility determinations in accordance with State Finance Law §139-k in its solicitation of proposals or bid documents or specifications or contract documents, as applicable, for procurement contracts. The attached form is to be completed and submitted by the individual or entity seeking to enter into a Procurement Contract. It shall be submitted to the Authority conducting the Governmental Procurement no later than when the Offerer submits its proposal.

FORM C (Continued)**Offerer's Disclosure of Prior Non-Responsibility Determinations**

Name of Individual or Entity Seeking to Enter into the Procurement Contract:

Address: _____

Name and Title of Person Submitting this Form: _____

Contract Procurement Number: _____

Date: _____

1. Has any Governmental Entity made a finding of non-responsibility regarding the individual or entity seeking to enter into the Procurement Contract in the previous four years? (Please circle):
- No Yes

If yes, please answer the next questions:

2. Was the basis for the finding of non-responsibility due to a violation of State Finance Law §139-j (Please circle):
- No Yes
3. Was the basis for the finding of non-responsibility due to the intentional provision of false or incomplete information to a Governmental Entity? (Please circle)
- No Yes
4. If you answered yes to any of the above questions, please provide details regarding the finding of non-responsibility below.

Governmental Entity: _____

Date of Finding of Non-Responsibility: _____

Basis of Finding of Non-Responsibility: _____

(Add additional pages as necessary)

FORM C (Continued)

5. Has any Governmental Entity or other governmental agency terminated or withheld a Procurement Contract with the above-named individual or entity due to the intentional provision of false or incomplete information? (Please circle): No Yes

6. If yes, please provide details below.

Governmental Entity: _____

Date of Termination or Withholding of Contract: _____

Basis of Termination or Withholding:

(Add additional pages as necessary)

Offerer certifies that all information provided to the Erie County Water Authority with respect to State Finance Law §139-k is complete, true, and accurate.

By: _____ Date: _____
Signature

Name: _____

Title: _____

CONTRACT TERMINATION PROVISION

Instructions:

A Contract Termination Provision will be included in each procurement contract governed by State Finance Law §139-k. New York State Finance Law §139-k(5) provides that every procurement contract award subject to the provisions of State Finance Law §§139-k and 139-j shall contain a provision authorizing the governmental entity to terminate the contract in the event that the certification is found to be intentionally false or intentionally incomplete. This statutory contract language authorizes, but does not mandate, termination. “Government Entity” and “procurement contract” are defined in State Finance Law §§ 139 j(1) and 139-k(l).

This required clause will be included in a covered procurement contract.

A sample of the Termination Provision is included below. If a contract is terminated in accordance with State Finance Law §139-k(5), the Erie County Water Authority, as a governmental entity, is required to include a statement in the procurement record describing the basis for any action taken under the termination provision.

Sample Contract Termination Provision

<p>The Erie County Water Authority, as a governmental entity, reserves the right to terminate this contract in the event it is found that the certification filed by the Offerer in accordance with New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, the Authority may exercise its termination right by providing written notification to the Offerer in accordance with the written notification terms of this contract.</p>

SECTION 139-L OF THE STATE FINANCE LAW
STATEMENT RELATING TO SEXUAL HARASSMENT POLICY

1. "Bidder" has the same meaning as the term, "Offerer," as that term is defined in State Finance Law § 139-k(1)(h), and includes anyone who submits a bid or proposal.
2. Every proposal or bid hereafter made and submitted to the Erie County Water Authority, where competitive bidding or a sealed proposal is required by statute, rule or regulation, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the Bidder and affirmed by such Bidder as true under penalty of perjury:

SEXUAL HARASSMENT BIDDING CERTIFICATION

- (a) "By submission of this bid/proposal, EACH BIDDER AND EACH PERSON SIGNING ON BEHALF OF ANY BIDDER CERTIFIES, AND IN THE CASE OF A JOINT BID EACH PARTY THERETO CERTIFIES AS TO ITS OWN ORGANIZATION, under penalty of perjury, that the Bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all its employees. Such policy shall, at a minimum, meet the requirements of Section two hundred one-g of the Labor Law."
3. A bid/proposal shall not be considered for award nor shall any award be made to a Bidder who has not complied with subdivision one of this section; provided, however, that if in any case the Bidder cannot make the foregoing certification, the Bidder shall so state and shall furnish with the bid/proposal a signed statement which sets forth in detail the reasons therefore.

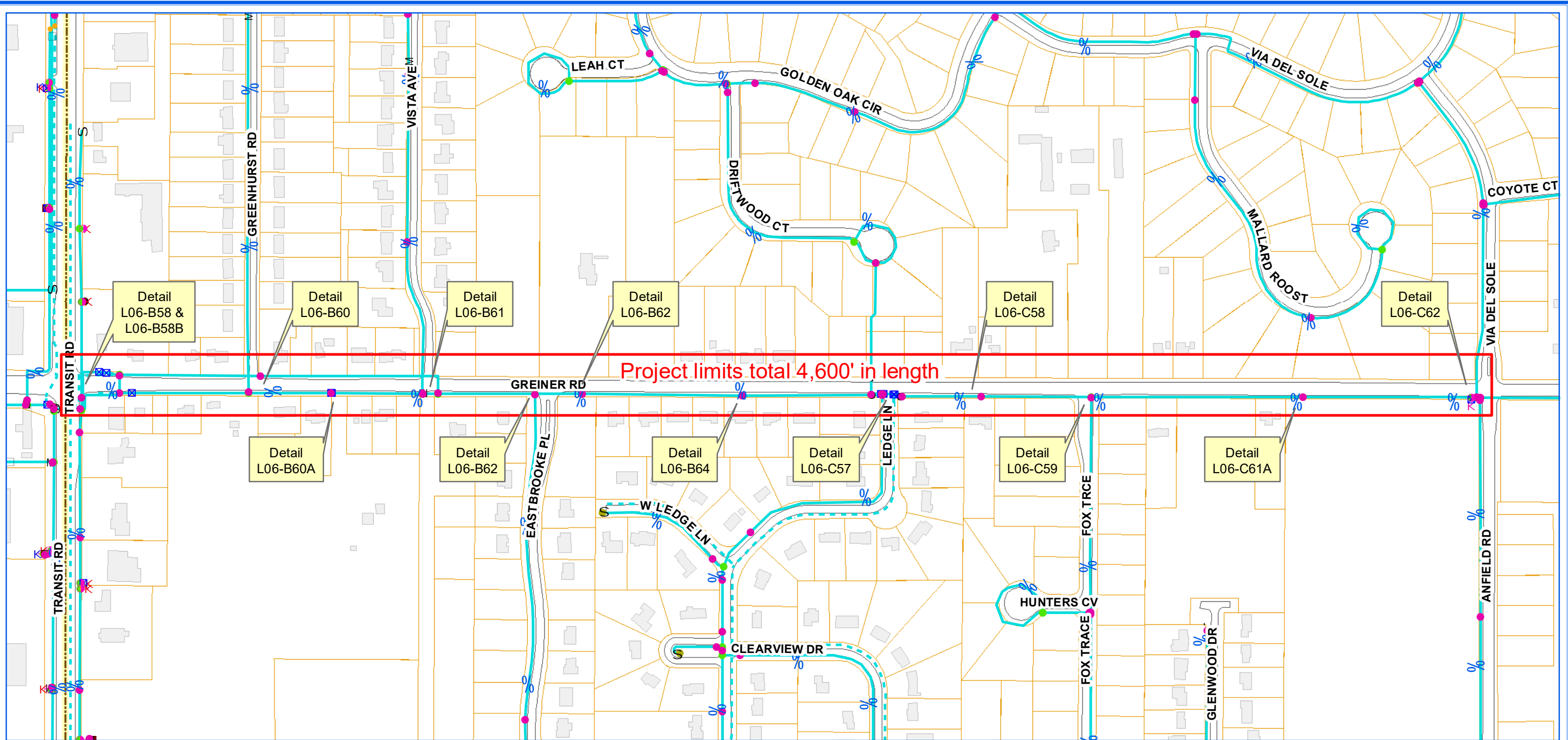
The undersigned CERTIFIES, under penalty of perjury, that he is authorized to make this bid/proposal and execute this statement on sexual harassment; that he is familiar with the statements contained in ¶2(a) of this document, as well as the provisions of State Finance Law §139-L and Labor Law §201-g, and such statements are true and have been complied with by the Bidder.

(Name of Individual, Partnership or Corporation)

By _____
(Person authorized to sign)

(SEAL)

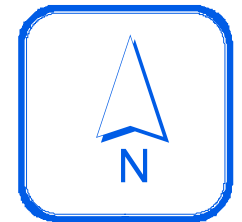
END OF BID FORM SUPPLEMENTS



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "A"

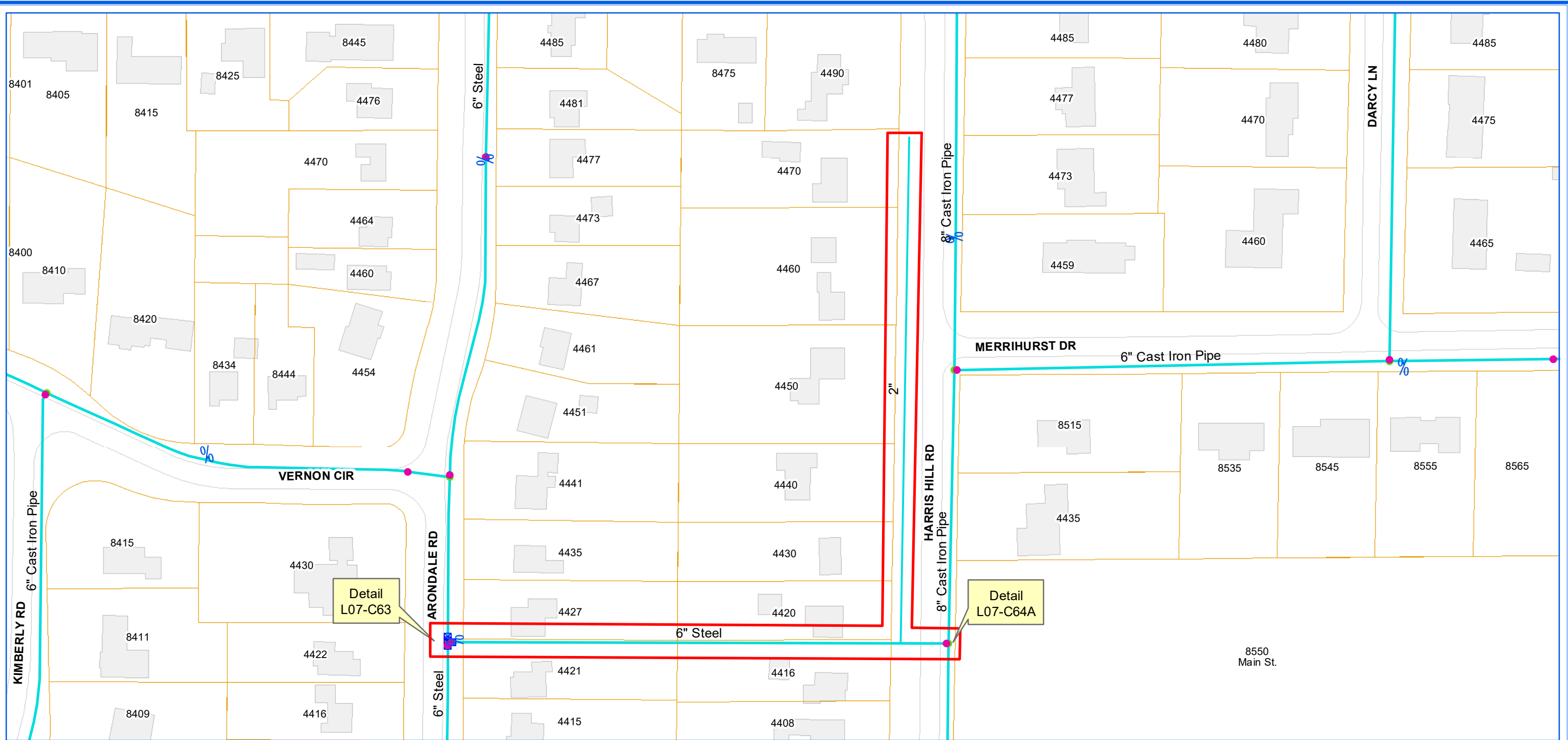
GREINER RD. FROM TRANSIT RD. TO VIA DEL SOL (TOWN OF CLARENCE)
6" MAIN ABANDONMENT BETWEEN ARONDALE RD. AND 8550 MAIN ST. (TOWN OF CLARENCE)
(3) METER PITS AT VARIOUS LOCATIONS IN TOWN OF AURORA
TOWNS OF AURORA & CLARENCE, NY



0 200 400 600 Feet

1 inch = 325 feet

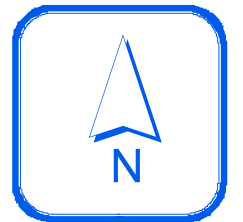
RDC



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

**ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "A"**

**GREINER RD. FROM TRANSIT RD. TO VIA DEL SOL (TOWN OF CLARENCE)
6" MAIN ABANDONMENT BETWEEN ARONDALE RD. AND 8550 MAIN ST. (TOWN OF CLARENCE)
(3) METER PITS AT VARIOUS LOCATIONS IN TOWN OF AURORA
TOWNS OF AURORA & CLARENCE, NY**

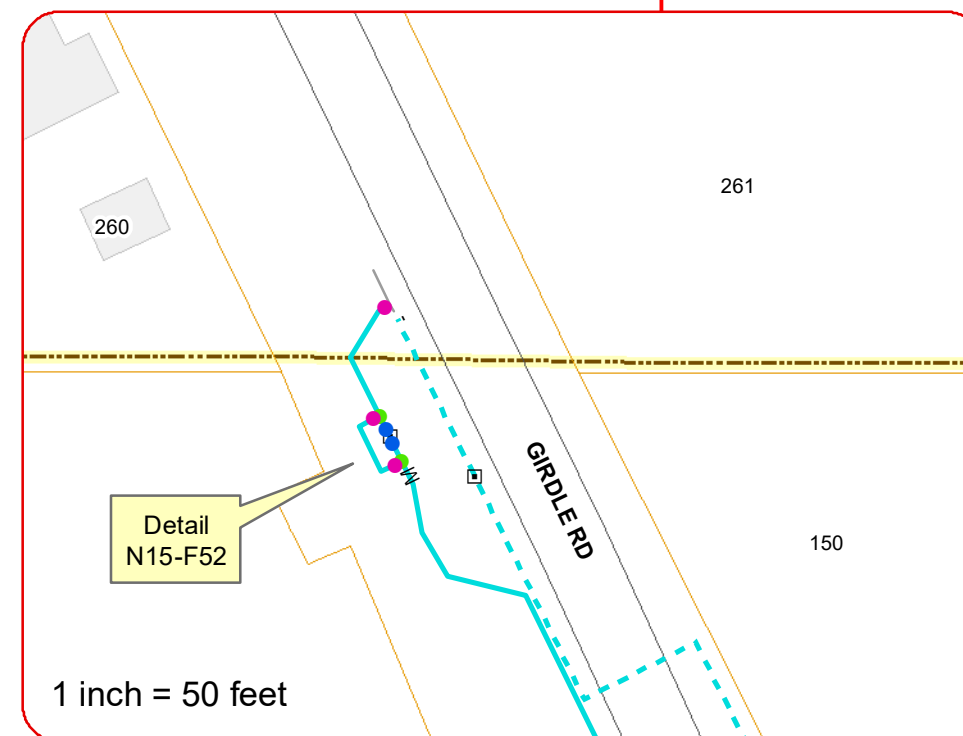
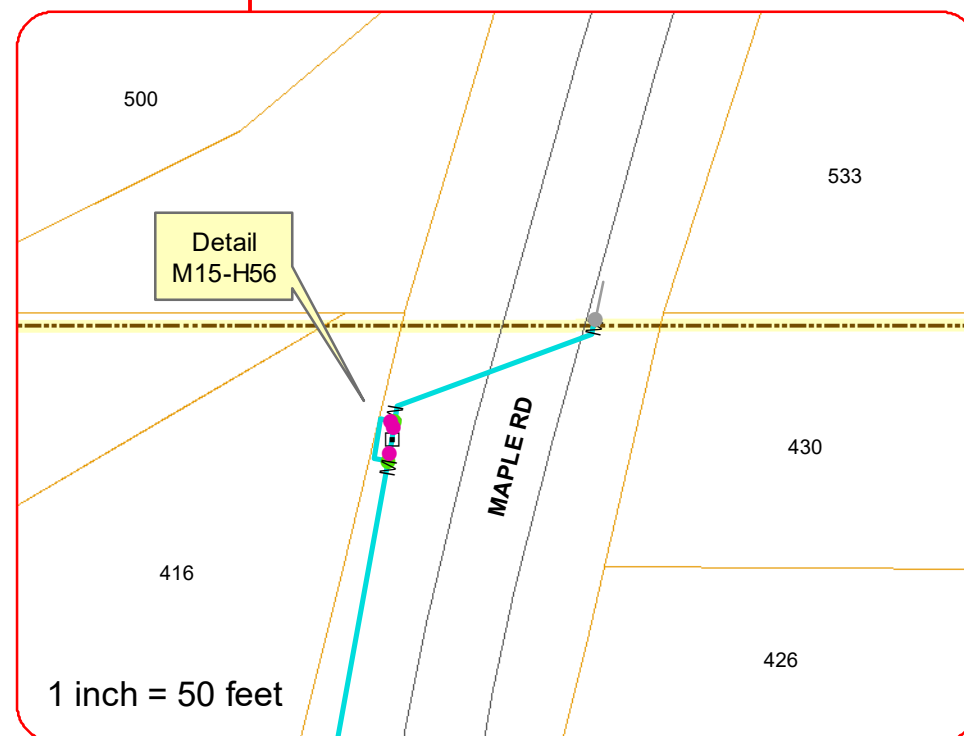
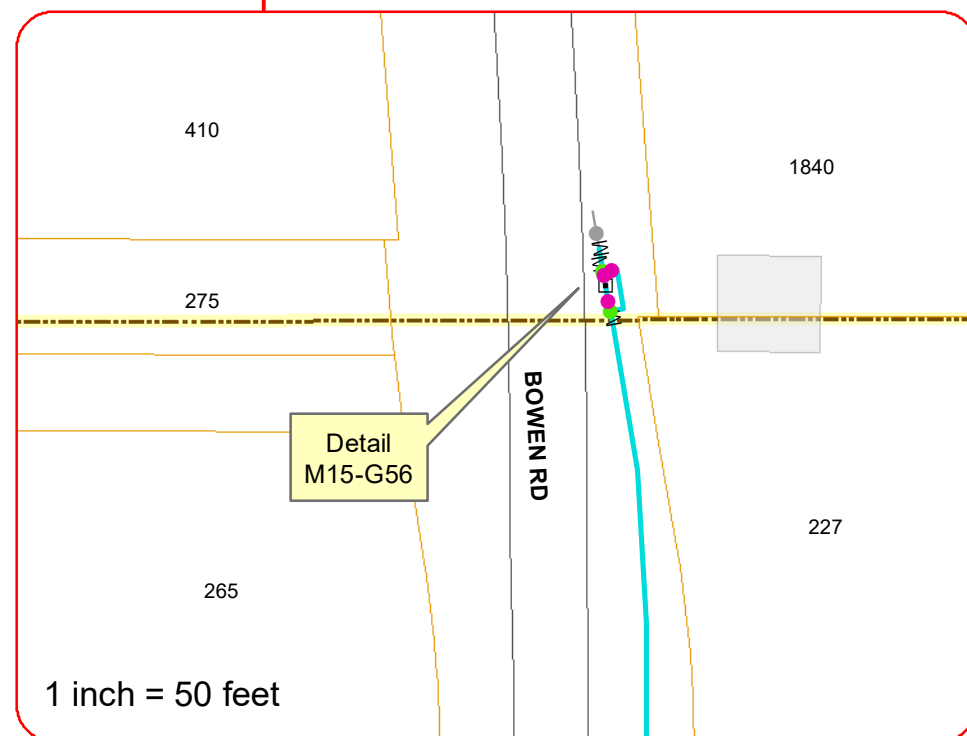
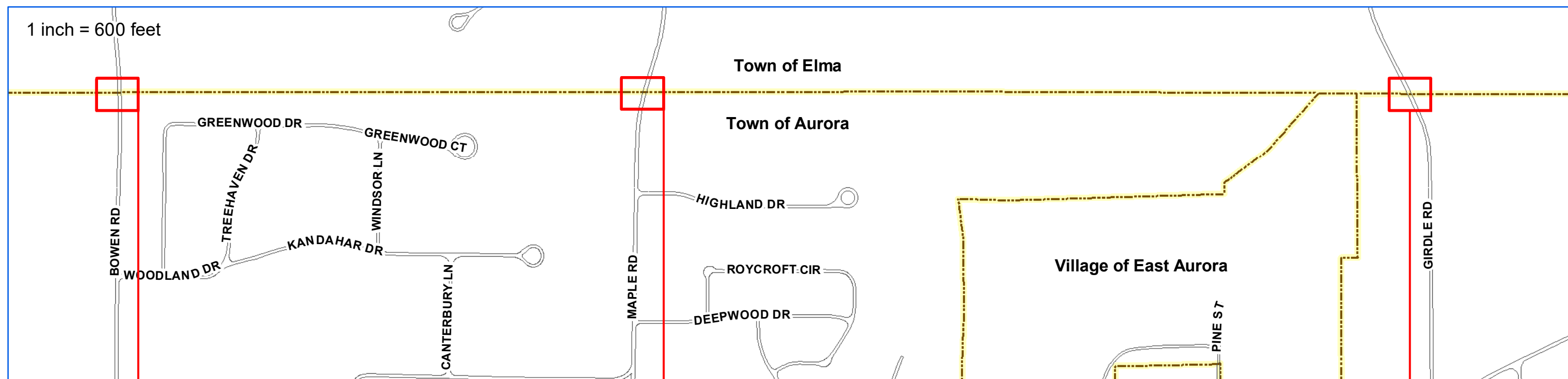


0 100 200
Feet

1 inch = 100 feet

RDC

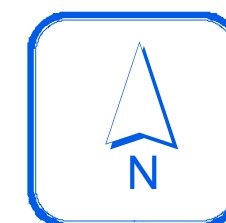
1 inch = 600 feet



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

**ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "A"**

**GREINER RD. FROM TRANSIT RD. TO VIA DEL SOL (TOWN OF CLARENCE)
6" MAIN ABANDONMENT BETWEEN ARONDALE RD. AND 8550 MAIN ST. (TOWN OF CLARENCE)
(3) METER PITS AT VARIOUS LOCATIONS IN TOWN OF AURORA
TOWNS OF AURORA & CLARENCE, NY**





ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

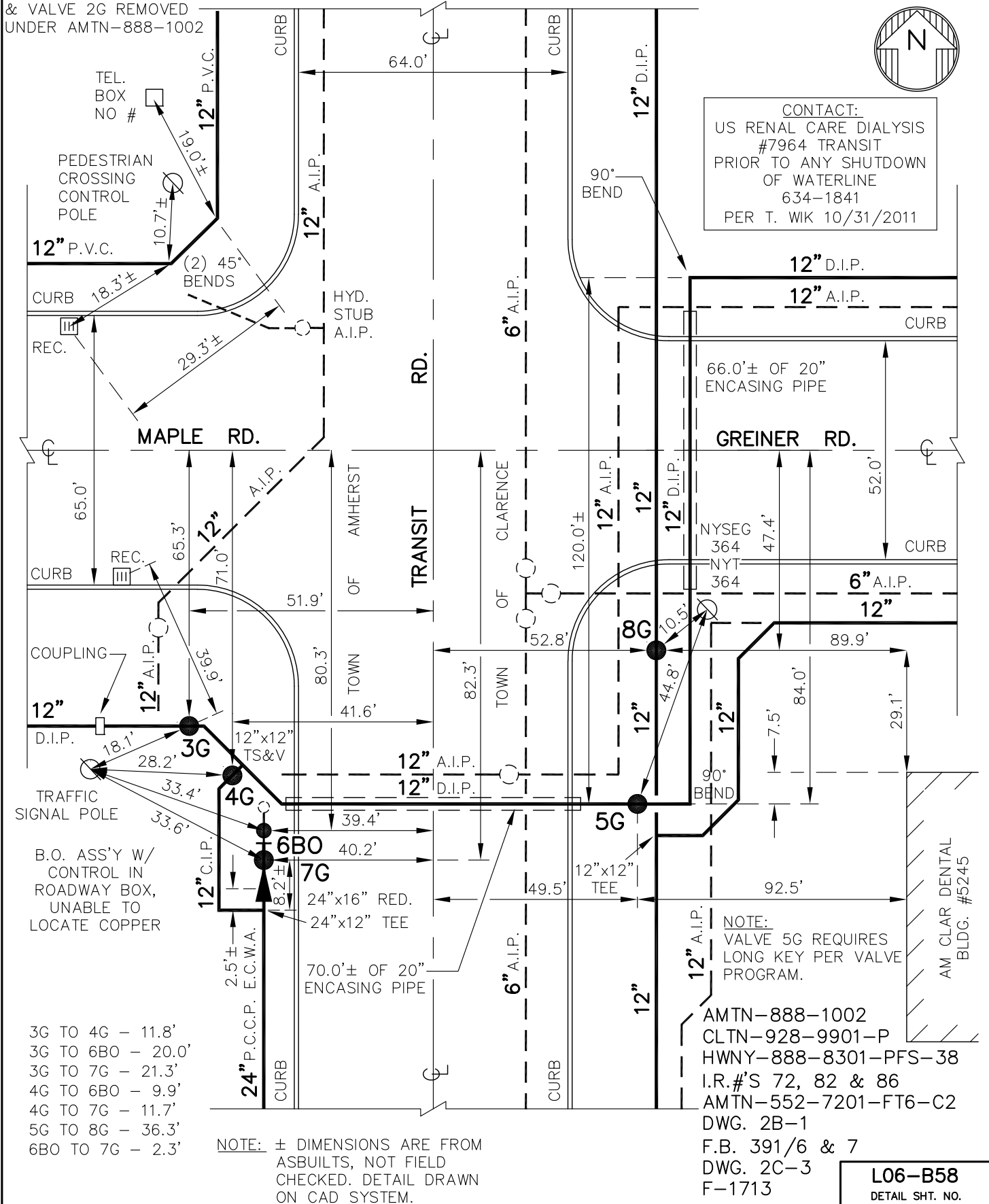
REVISED DR. D.K.C.
 DATE: 10/2/12
 FIELD

REVISED DR. M.J.M.
 DATE: 5/22/12
 OFFICE

TOWN OF CLARENCE
E.C.W.A.
TOWN OF AMHERST
AMHERST DISTRICT 15C

L06-B58
 DETAIL SHT. NO.
 201000109
 CURRENT PROJECT NO.

NOTE: VALVE 1G A.I.P.
 & VALVE 2G REMOVED
 UNDER AMTN-888-1002



MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK



REVISED
DR. D.K.C.

DATE: 8/22/01

FIELD

REVISED
DR. M.J.M.

DATE: 5/17/12

OFFICE

TOWN OF CLARENCE

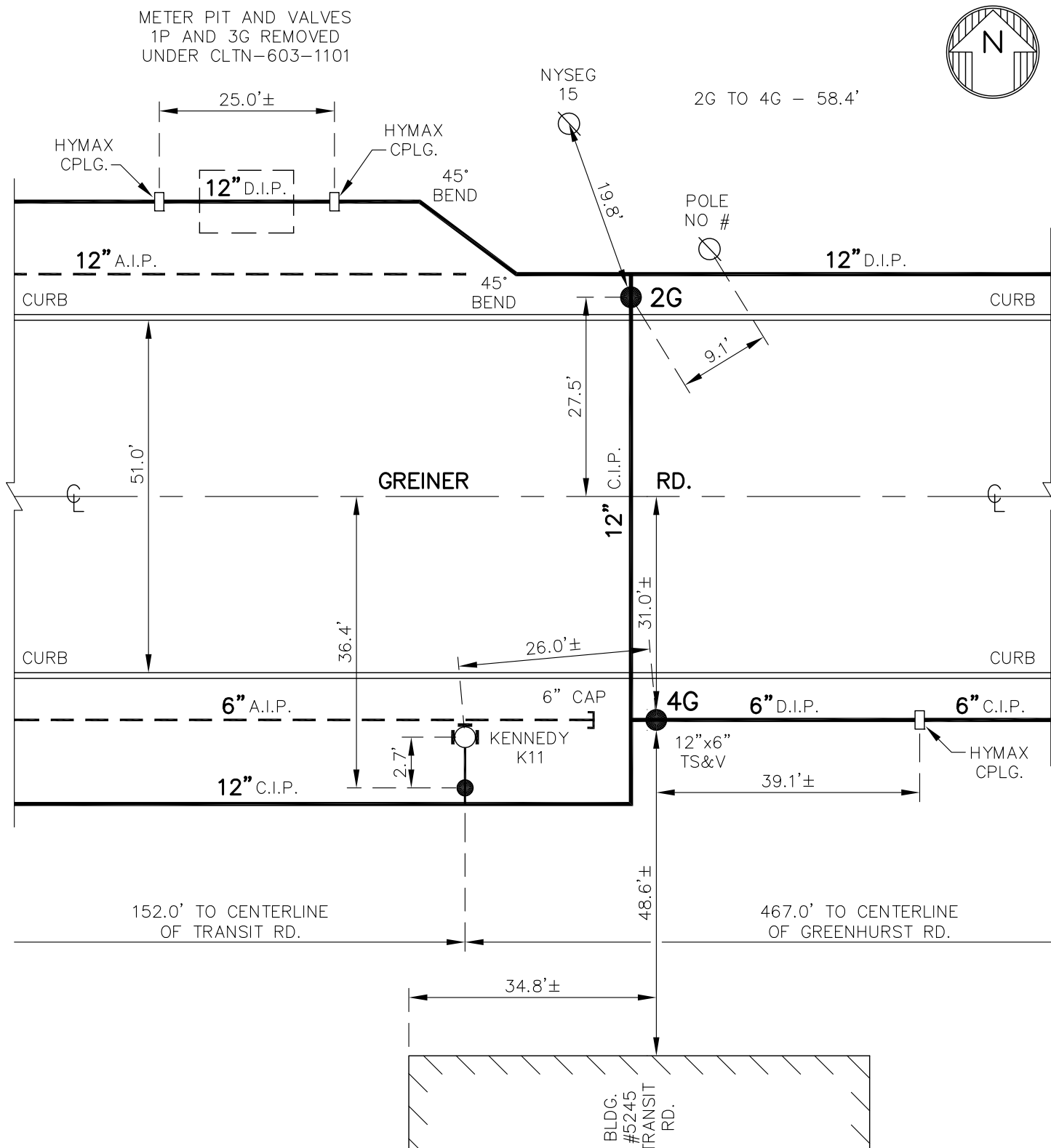
E.C.W.A.

L06-B58B

DETAIL SHT. NO.

201100392

CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE FROM
INSPECTOR'S FIELD NOTES,
NOT FIELD CHECKED.
DETAIL DRAWN ON CAD
SYSTEM.

CLTN-603-1101
W.O. #0057991
CLTN-928-9901-P
DWG. 70
HWNY-888-8301-PFS-38

L06-B58B

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

REVISED
DE.

DATE: 3.3.00

DATE:

FIELD

OFFICE

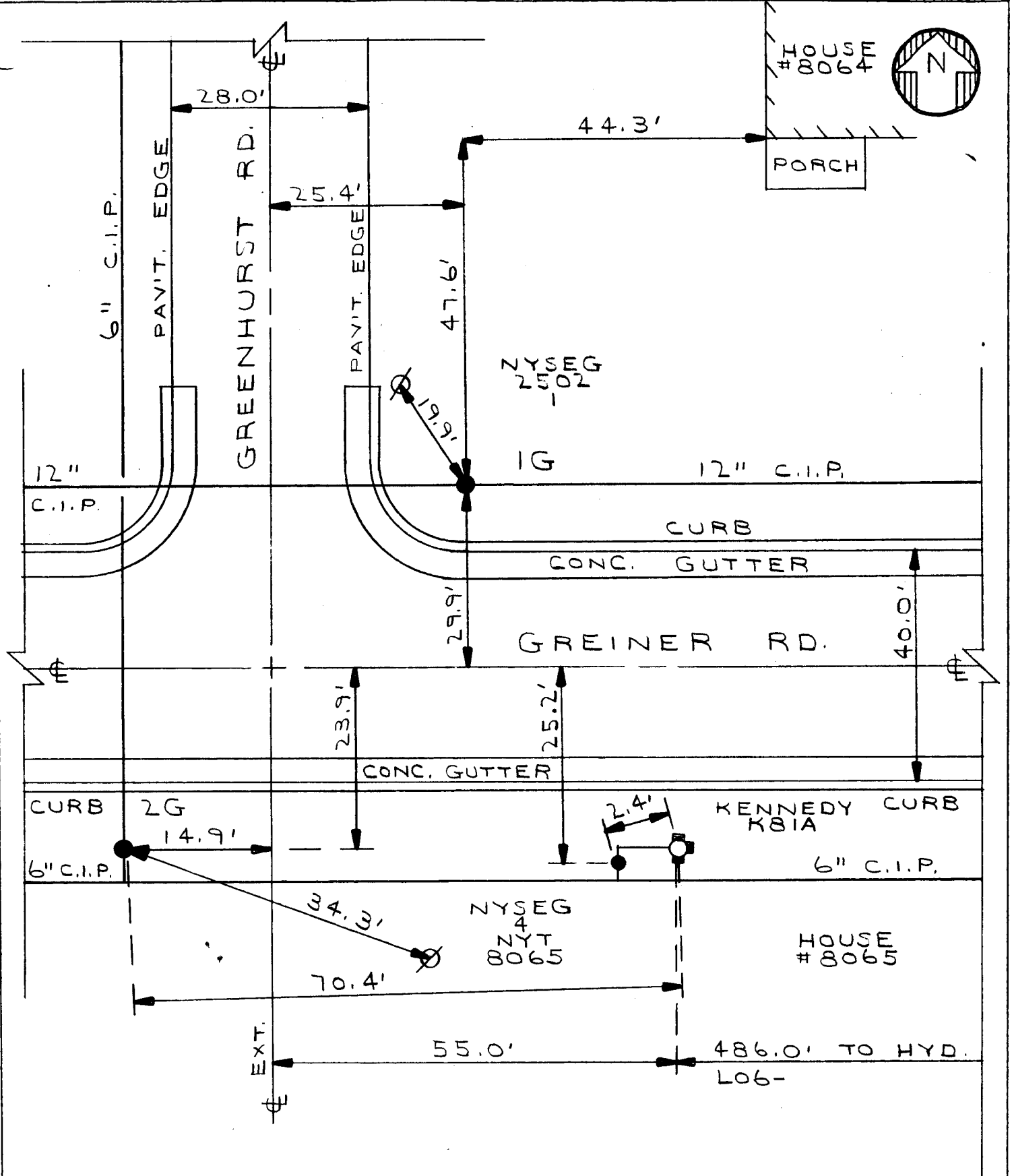
TN. OF CLARENCE

E.C.W.A.

LO6-B60
DETAIL NO.(NTS)

199900249

CURRENT PROJECT NO.



DWG. 23
DWG. 70
CLTN-928-9901-P

LO6-B60
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK



REVISED
DR. M.J.M.

DATE: 5/17/12

FIELD

REVISED
DR.

DATE:

OFFICE

TOWN OF CLARENCE

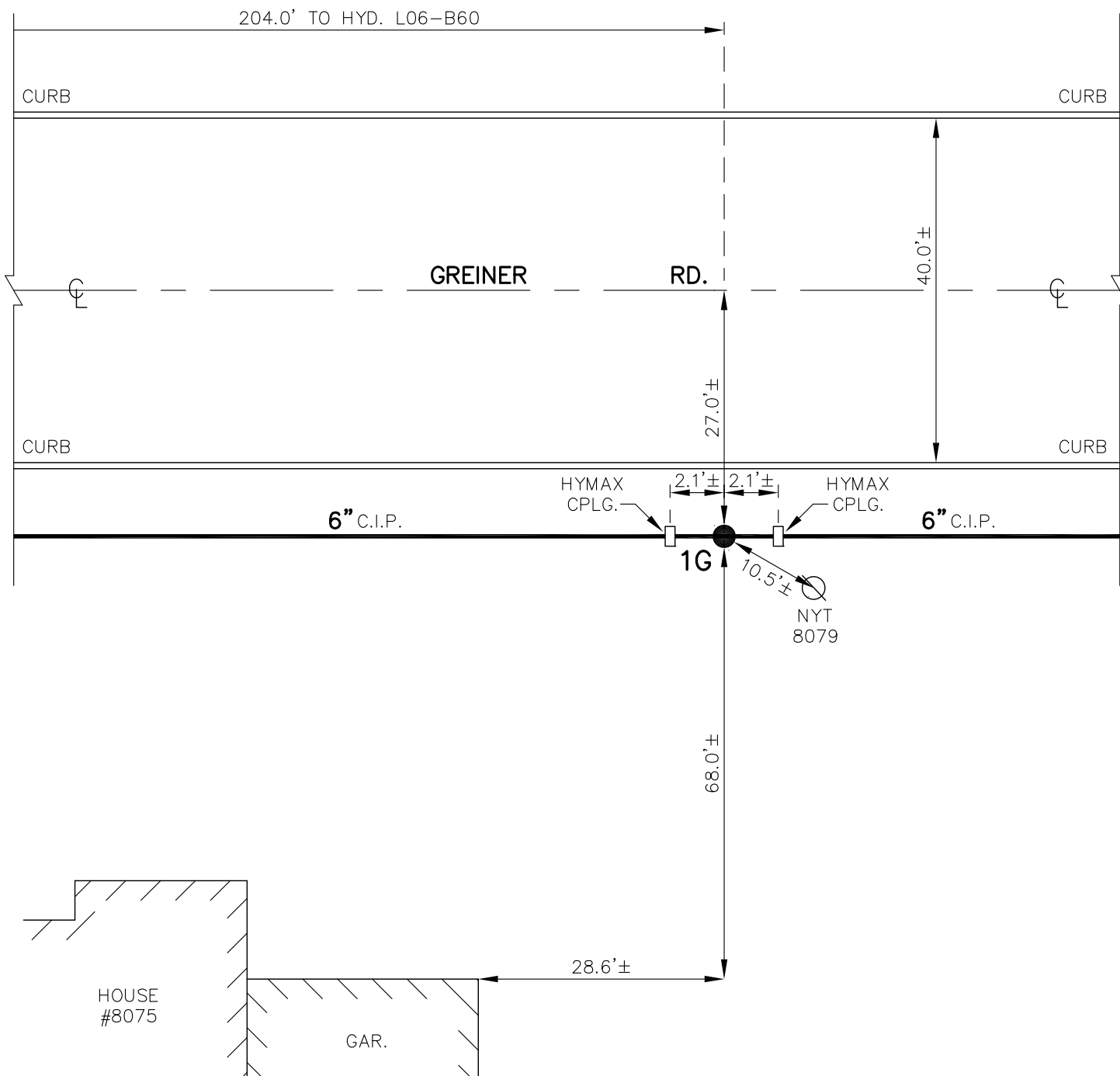
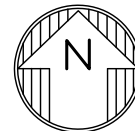
E.C.W.A.

L06-B60A

DETAIL SHT. NO.

201100392

CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE FROM
INSPECTOR'S FIELD NOTES,
NOT FIELD CHECKED.
DETAIL DRAWN ON CAD
SYSTEM.

CLTN-603-1101
CLTN-928-9901-P

L06-B60A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DE. D.K.C.

REVISED DE.

DATE: 3.3.00

DATE:

FIELD

OFFICE

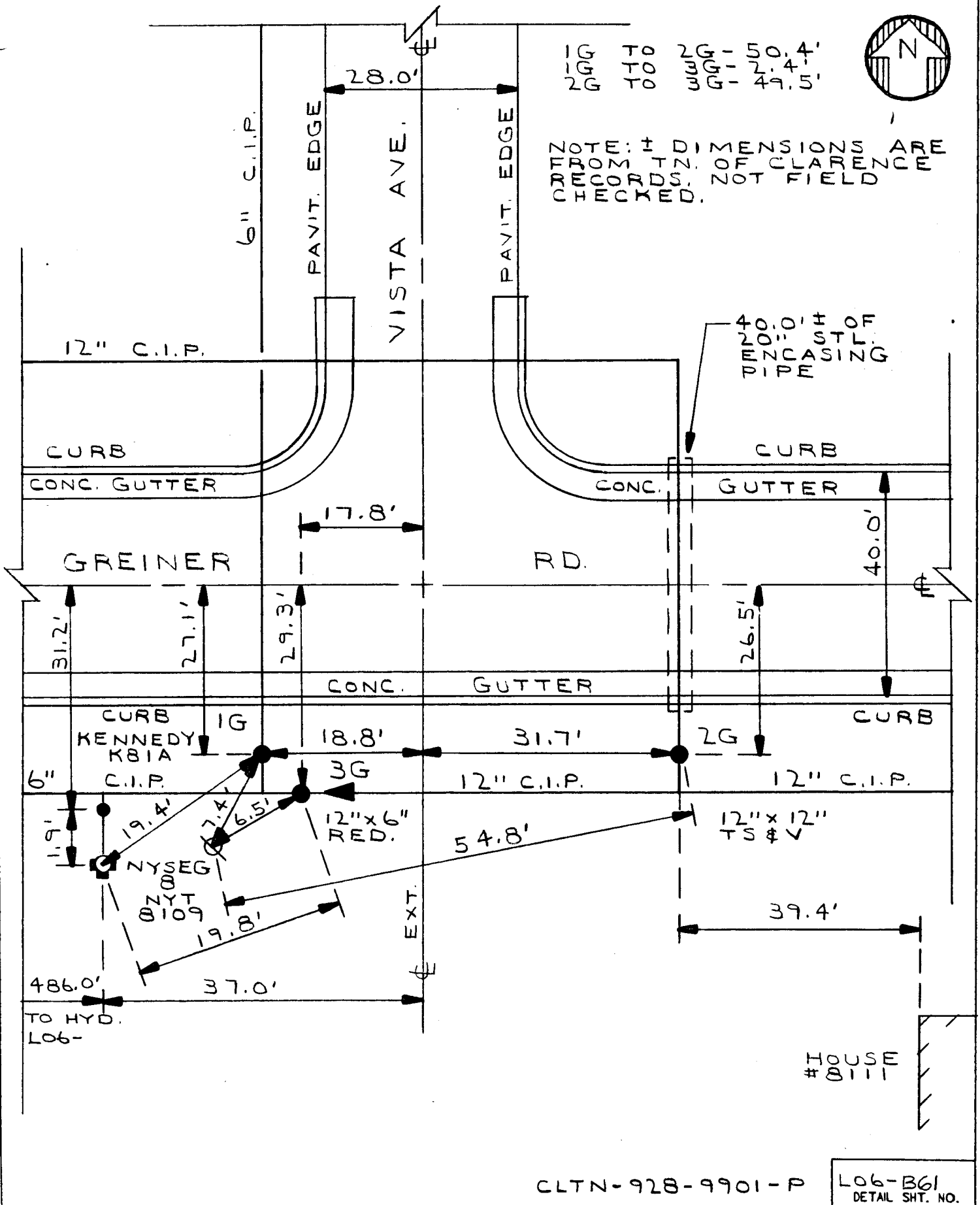
TN. OF CLARENCE

E.C.W.A.

LOG-B61
DETAIL NO.(NTS)

199900249

CURRENT PROJECT NO.



MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

REVISED
DR.

DATE: 3.3.00

DATE:

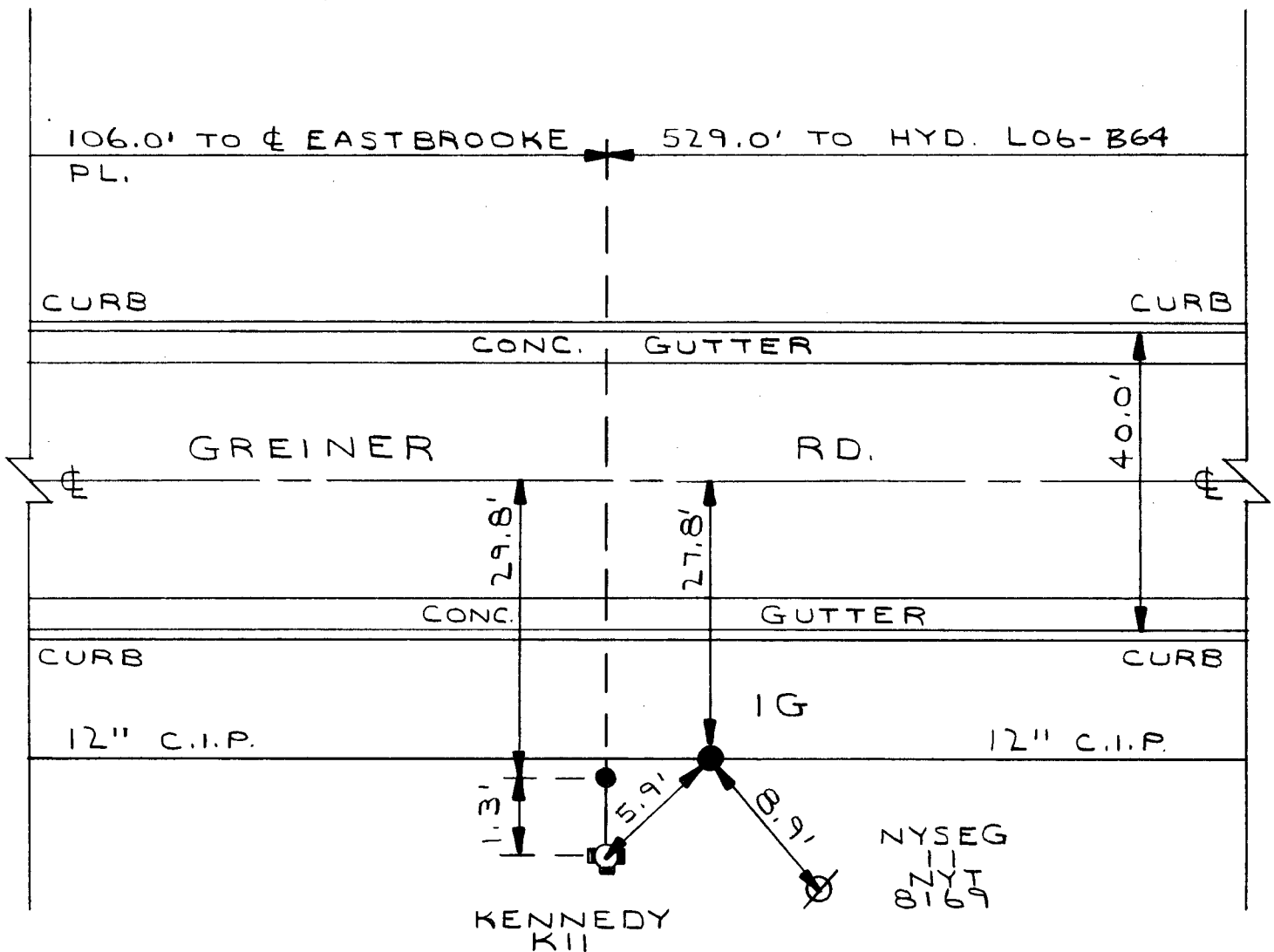
FIELD

OFFICE

TN. OF CLARENCE
E.C.W.A.

LO6-B62
DETAIL NO.(NTS)

199900249
CURRENT PROJECT NO.



CLTN-928-9901-P

LO6-B62
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. S.J.T.

DATE: 10-12-99

FIELD

REVISION
DR.

DATE:

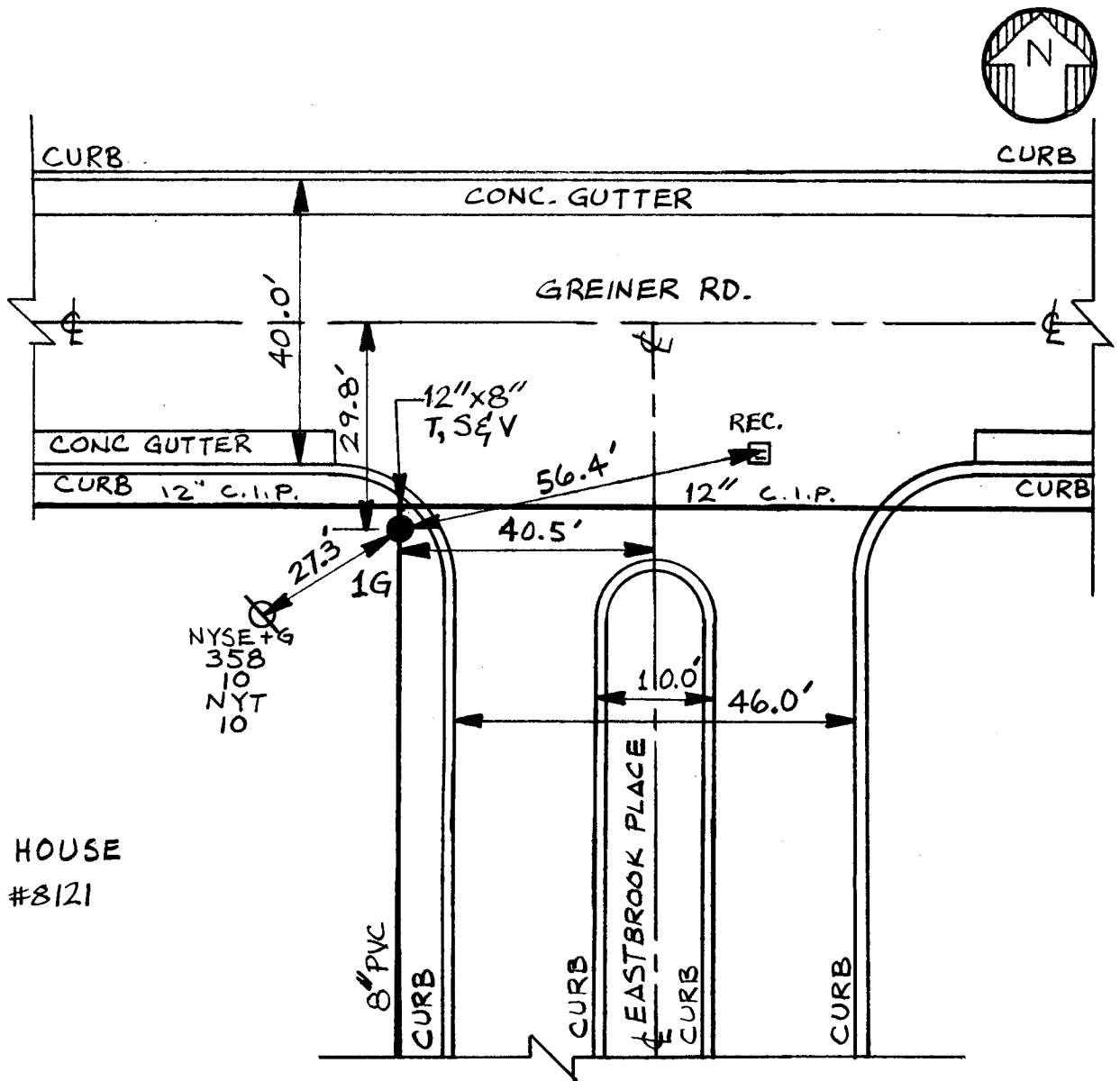
OFFICE

TN. of CLARENCE
CLARENCE
CONSOLIDATED W.D.

LOG-B62A
DETAIL NO. (NTS)

199900249

CURRENT PROJECT NO.



DWG. SET 9(8)
CLTN-928-9901-P

LOG-B62A
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

REVISED
DR.

DATE: 3.2.00

DATE:

FIELD

OFFICE

TN. OF CLARENCE
E.C.W.A.

LO6-B64

DETAIL NO. (NTS)

199900249

CURRENT PROJECT NO



529.0' TO HYD. LO6-B62

490.0' TO Φ LEDGE LN.

CURB

CURB

CONC.

GUTTER

GREINER

RD.

40.0'

CONC.

GUTTER

CURB

CURB

12" C.I.P.

12" C.I.P.

KENNEDY
XII

IG

52.9'

35.4'

PORCH

GAR.

HOUSE
#0225

CLTN-928-9901-P

LO6-B64
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.D.C.

DATE: 8/9/2019

REVISED
DR.

DATE:

FIELD

OFFICE

TOWN OF CLARENCE

E.C.W.A.

L06-C57

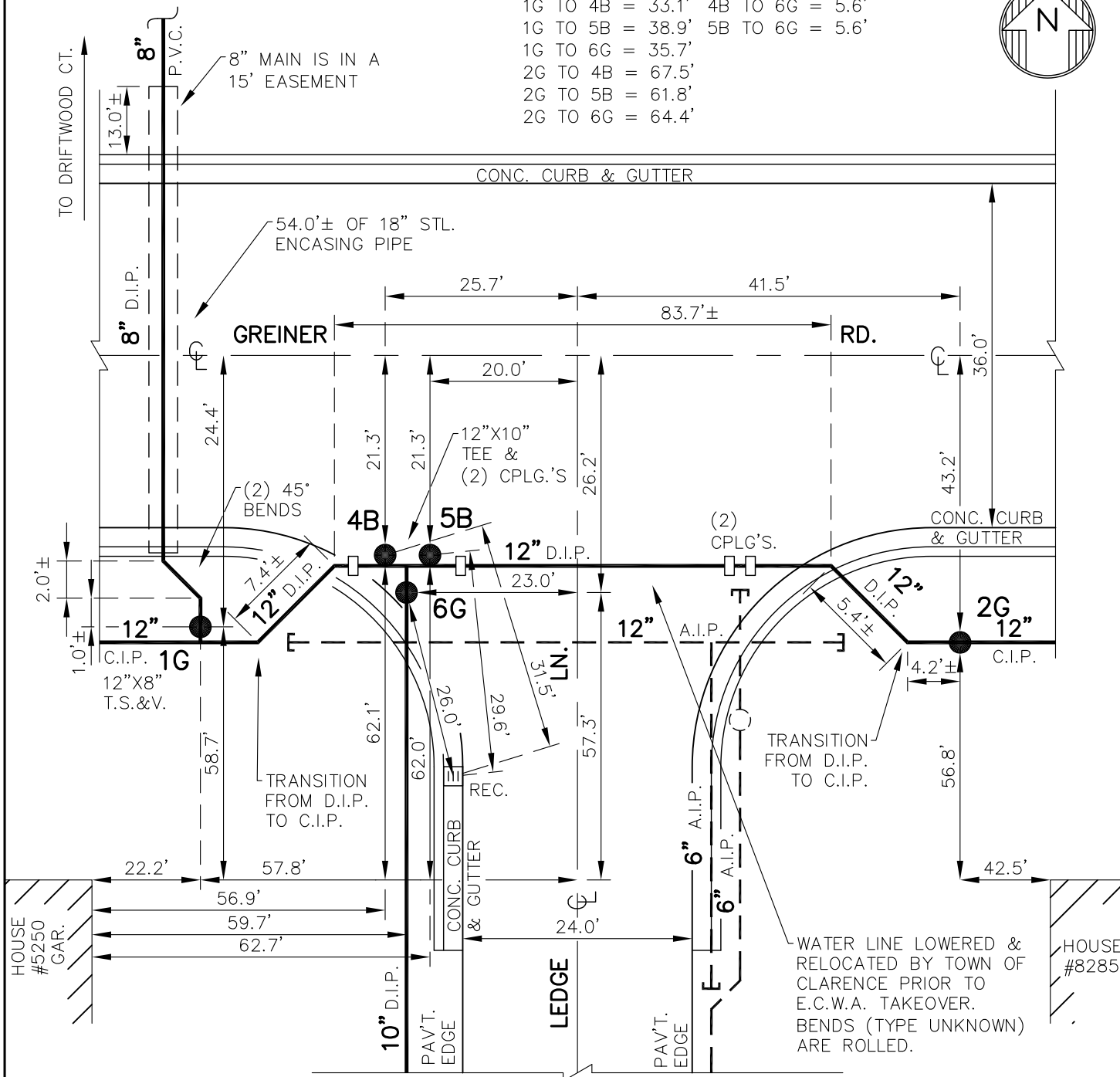
DETAIL SHT. NO.

201800079

CURRENT PROJECT NO.

NOTE: VALVE 3G A.I.P. UNDER
CONT-CPL-004-1801.

1G TO 2G = 100.1' 4B TO 5B = 5.8'
1G TO 4B = 33.1' 4B TO 6G = 5.6'
1G TO 5B = 38.9' 5B TO 6G = 5.6'
1G TO 6G = 35.7'
2G TO 4B = 67.5'
2G TO 5B = 61.8'
2G TO 6G = 64.4'



NOTE: DETAIL DRAWN ON CAD SYSTEM.
DRAWN FROM PROPOSED PLANS.
± DIMENSIONS FROM TOWN OF CLARENCE
RECORDS, NOT FIELD CHECKED.

CONT-CPL-004-1801
CLTN-928-9901-P
DWG.SET 9(38)

L06-C57

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

DR.

TOWN OF CLARENCE

LOG-C58
DETAIL SHT. NO.

DATE: 3.13.12

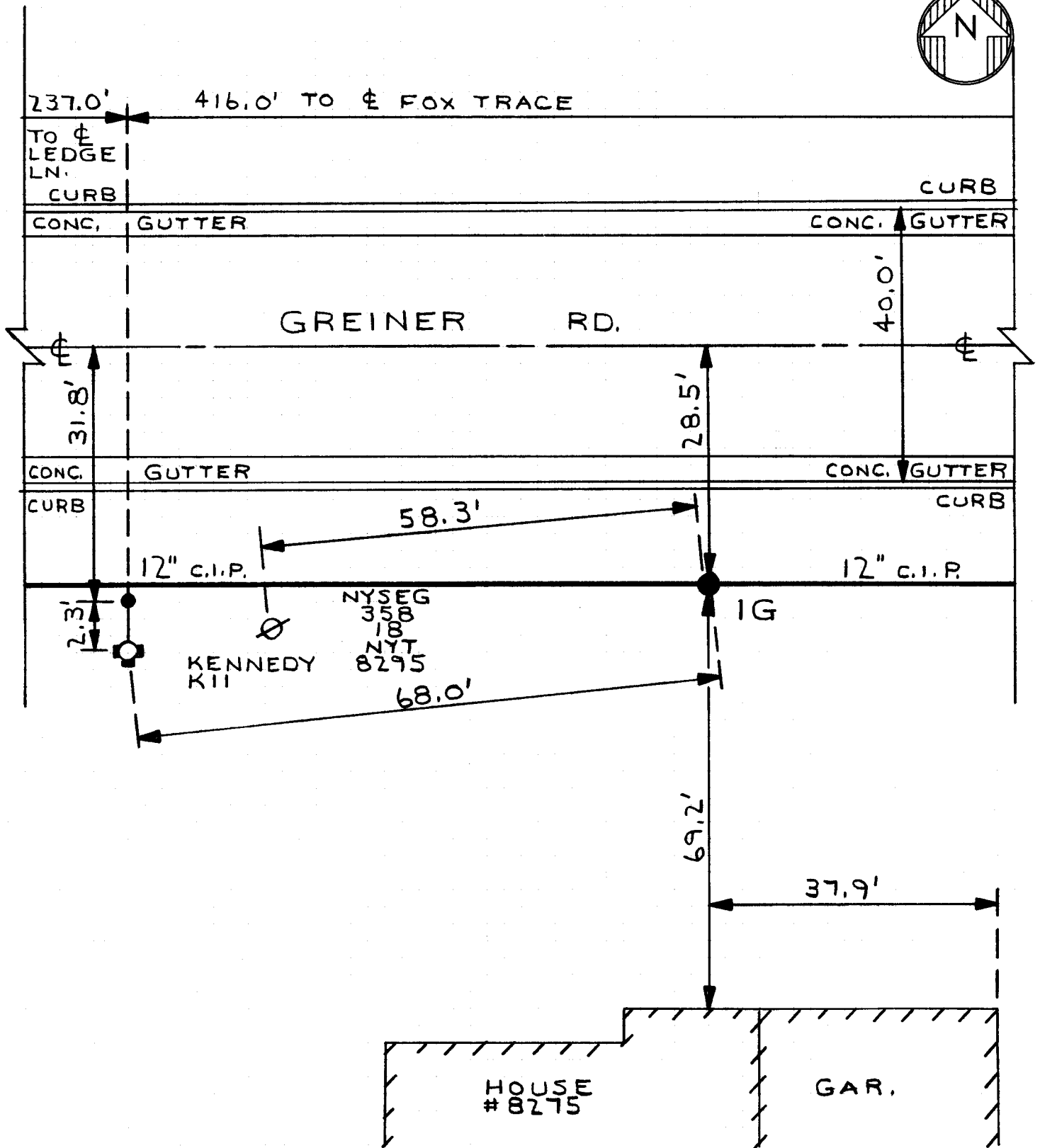
DATE:

E.C.W.A.

FIELD

OFFICE

199900249
CURRENT PROJECT NO.

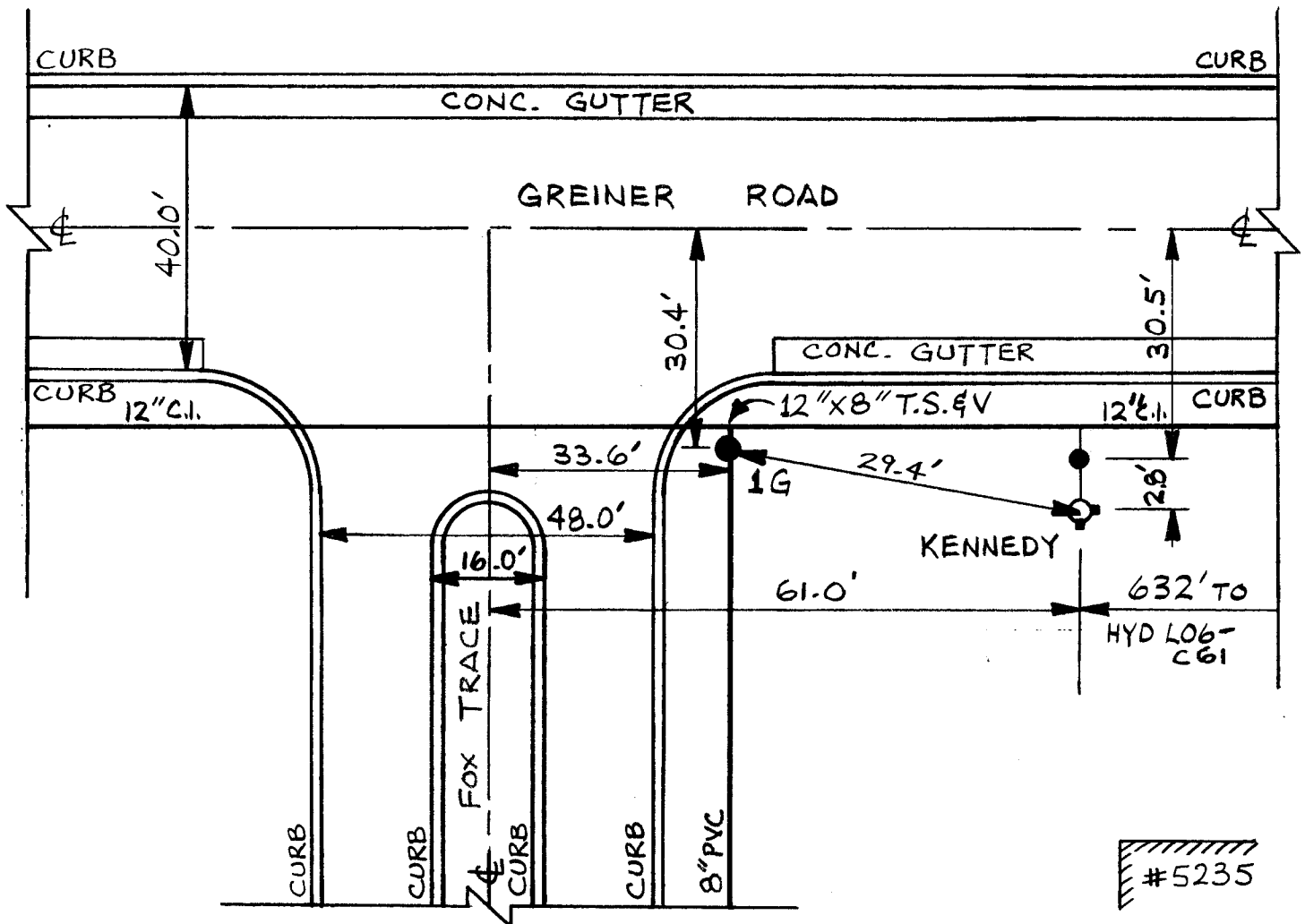


CLTN-928-9901-P

LOG-C58
DETAIL SHT. NO.

MASTER COPY

<div data-bbox="82 89 142 148" data-label="Image"></div> <div data-bbox="155 80 493 176" data-label="Text"> <p>ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK</p> </div>	<div data-bbox="509 67 643 100" data-label="Text"> <p>DR. S.J.T.</p> </div>	<div data-bbox="729 61 800 100" data-label="Text"> <p>REVISED DR.</p> </div>	<div data-bbox="954 61 1305 148" data-label="Text"> <p>TN OF CLARENCE E.C.W.A.</p> </div>	<div data-bbox="1365 61 1573 100" data-label="Text"> <p>LOG-C59</p> </div>
	<div data-bbox="509 117 714 148" data-label="Text"> <p>DATE: 10-15-99</p> </div>	<div data-bbox="729 126 781 148" data-label="Text"> <p>DATE:</p> </div>		<div data-bbox="1373 107 1573 133" data-label="Text"> <p>DETAIL NO.(NTS)</p> </div>
	<div data-bbox="581 163 646 187" data-label="Text"> <p>FIELD</p> </div>	<div data-bbox="792 163 870 187" data-label="Text"> <p>OFFICE</p> </div>		<div data-bbox="1360 135 1573 176" data-label="Text"> <p>199900249</p> </div>
<div data-bbox="1352 176 1573 196" data-label="Text"> <p>CURRENT PROJECT NO</p> </div>				



DWGSET 9(16)
CLTN-928-9901-P

LOG-C59
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

DR.

DATE: 5.10.01

DATE:

FIELD

OFFICE

TN. OF CLARENCE

E.C.W.A.

LO6-C61A

DETAIL SHT. NO.

199900249

CURRENT PROJECT NO.



632.0' TO HYD. LO6-C59 523.0' TO HYD. LO6-C62

CURB

CURB

CONC.

GUTTER

GREINER

RD.

40.0'

29.9'

27.6'

CONC.

GUTTER

CURB

CURB

12" C.I.P.

12" C.I.P.

3.5'

20.8'

IG

KENNEDY
XII

53.5'

71.9

#IGAR.
80CS.
350FE @

CLTN-928-9901-P

LO6-C61A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

DR. M.J.M.	REVISED DR.
DATE: 7/18/17	DATE:
FIELD	OFFICE

TOWN OF CLARENCE

ECWA

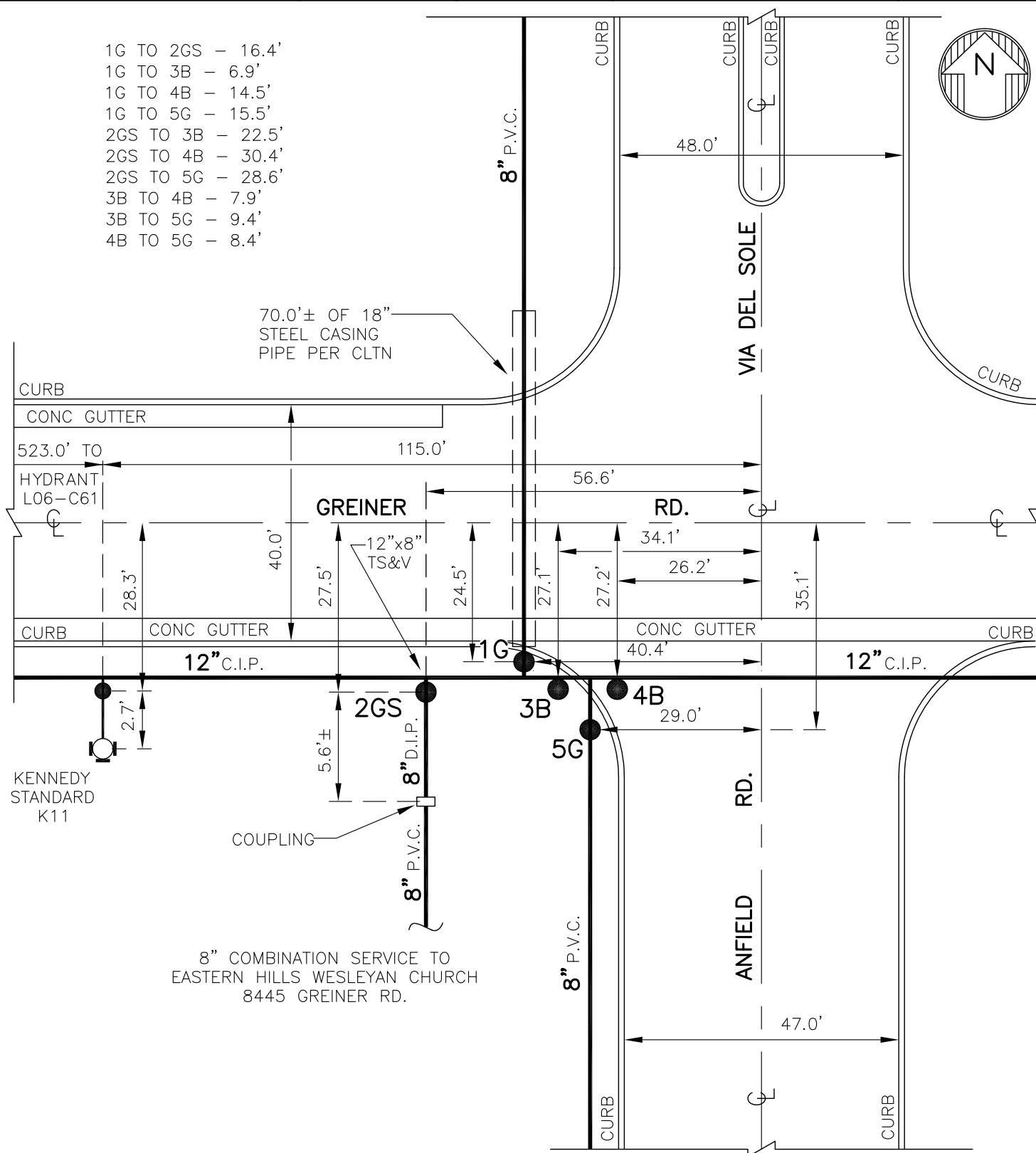
L06-C62

DETAIL SHT. NO.

200500268

CURRENT PROJECT NO.

1G TO 2GS - 16.4'
 1G TO 3B - 6.9'
 1G TO 4B - 14.5'
 1G TO 5G - 15.5'
 2GS TO 3B - 22.5'
 2GS TO 4B - 30.4'
 2GS TO 5G - 28.6'
 3B TO 4B - 7.9'
 3B TO 5G - 9.4'
 4B TO 5G - 8.4'



NOTE: ± DIMENSIONS ARE FROM INSPECTOR'S FIELD BOOK. NOT FIELD CHECKED. DETAIL DRAWN ON CAD SYSTEM.

BCD-05-02
 CLTN-351-0001
 FB 462/18
 DWG. SET 9(40)
 DWG. 8
 CLTN-928-9901-P

L06-C62

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

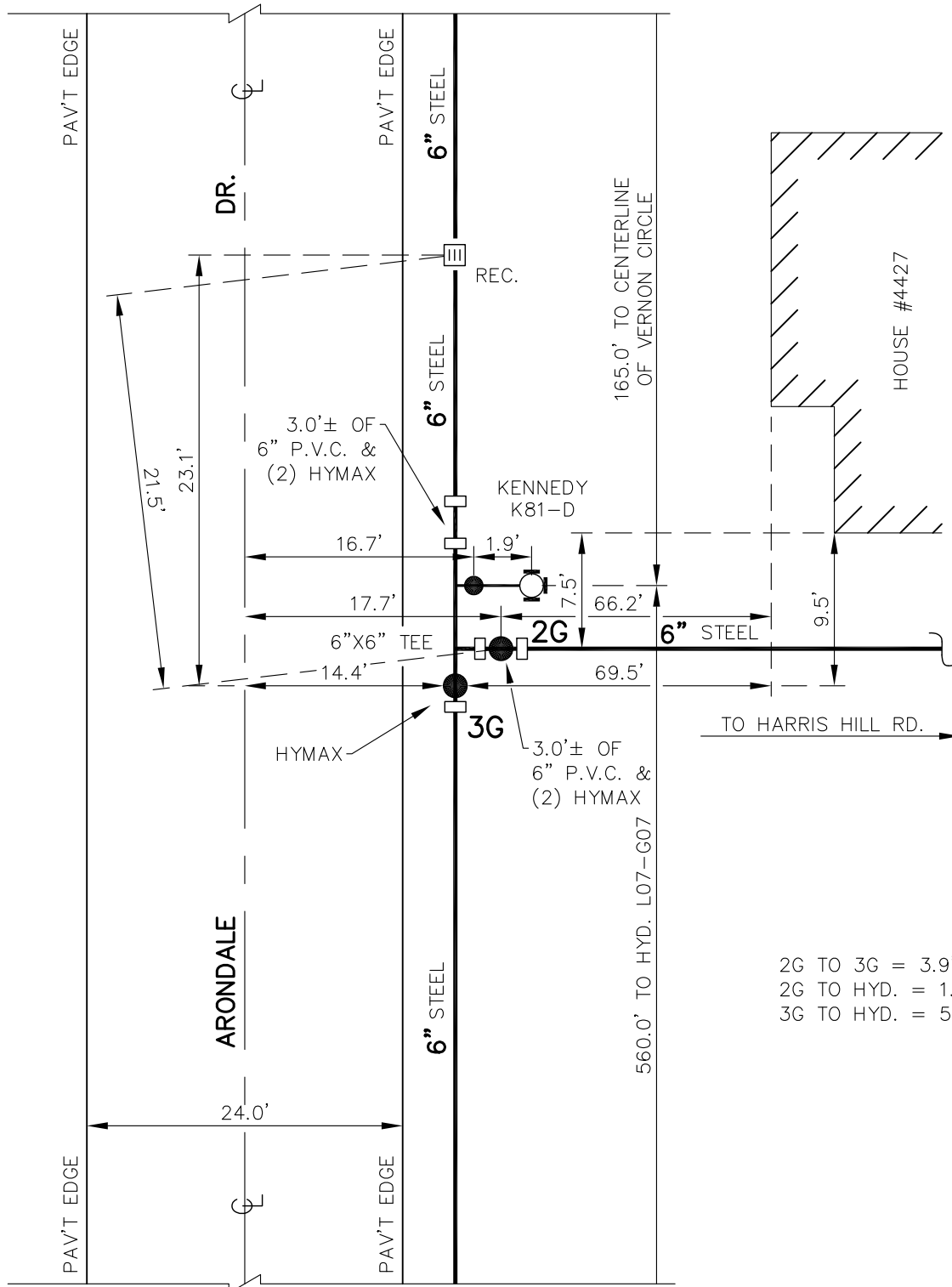
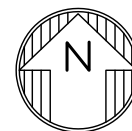
REVISED
DR. R.D.C.
DATE: 10/4/2019
FIELD

REVISED
DR. R.D.C.
DATE: 10/16/2019
OFFICE

TOWN OF CLARENCE
E.C.W.A.

L07-C63
DETAIL SHT. NO.
201900253
CURRENT PROJECT NO.

NOTE: HYDRANT REPLACED UNDER
CLTN-037-1002 ON 11/23/2010.
VALVE 1G REMOVED UNDER
CLTN-034-1901 ON 9/17/2019.



2G TO 3G = 3.9'
2G TO HYD. = 1.9'
3G TO HYD. = 5.7'

NOTE: DETAIL DRAWN ON CAD SYSTEM.
± DIMENSIONS FROM W.O., NOT
FIELD CHECKED.

CLTN-034-1901
CLTN-037-1002
CLTN-928-9901-P

L07-C63
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. N.G.S.

DATE: 3/14/00

FIELD

REVISED
DR. M.J.M.

DATE: 7/1/08

OFFICE

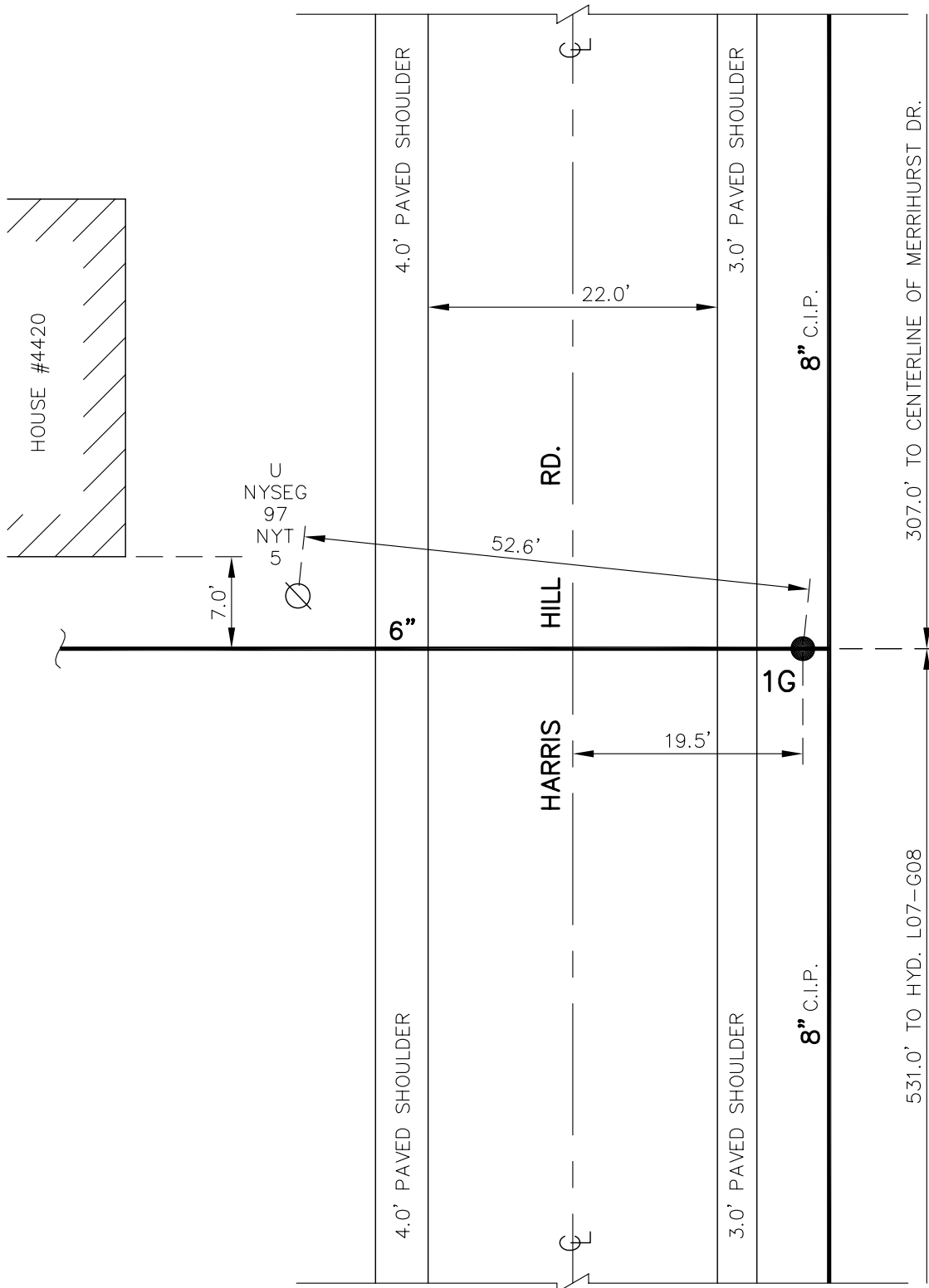
TOWN OF CLARENCE
E.C.W.A.

L07-C64A

DETAIL SHT. NO.

199900249

CURRENT PROJECT NO.



CLTN-928-9901-P

L07-C64A

DETAIL SHT. NO.

MASTER COPY





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.D.C.

DATE: 11/16/2017

FIELD

REVISED
DR.

DATE:

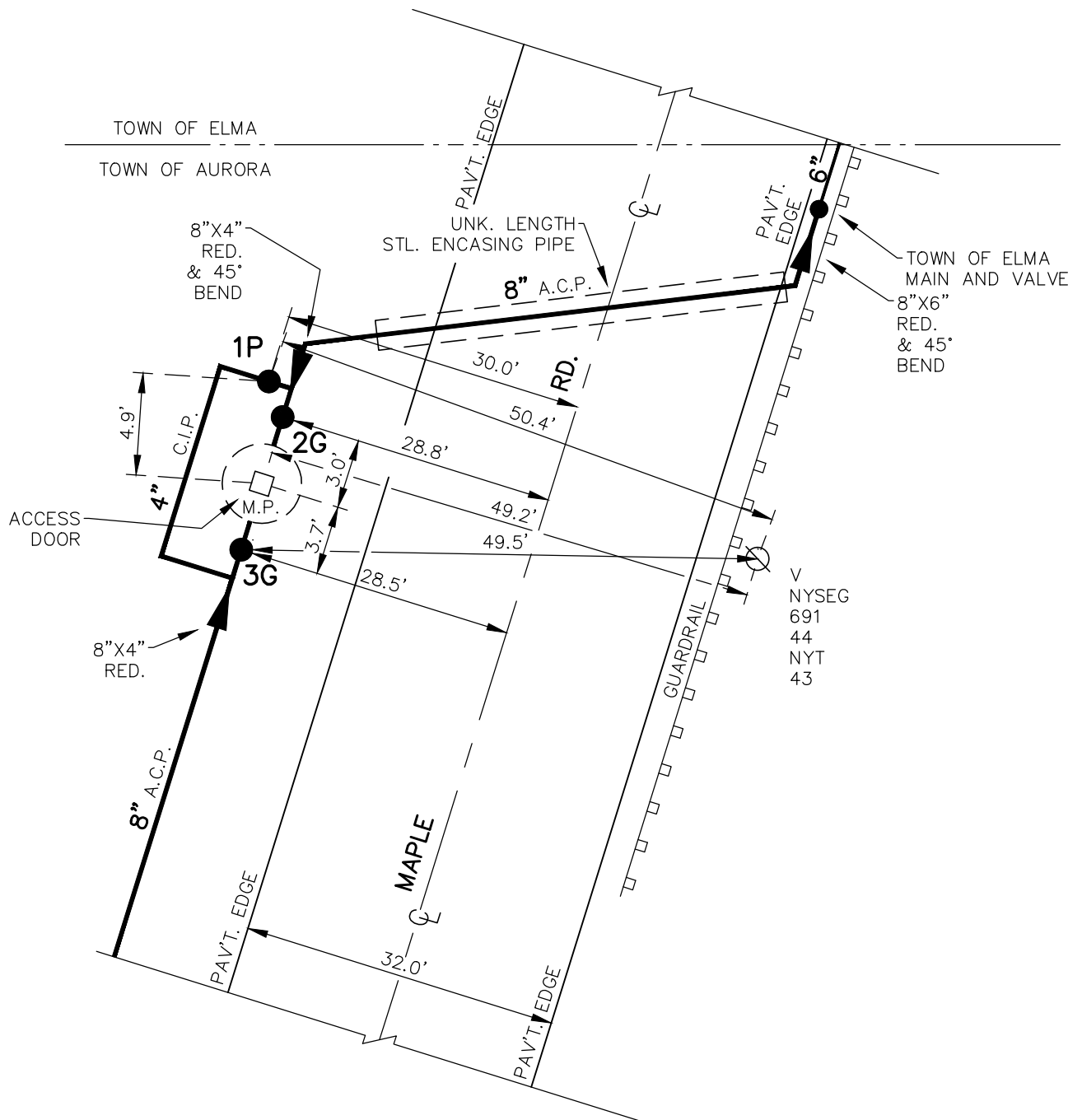
OFFICE

TOWN OF AURORA

E.C.W.A.

M15-H56
DETAIL SHT. NO.

201300171
CURRENT PROJECT NO.



NOTE: DETAIL DRAWN ON
CAD SYSTEM.

AUTN-928-1301

M15-H56
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED
 DR. R.D.C.
 DATE: 11/17/2017
 FIELD

REVISED
 DR.
 DATE:
 OFFICE

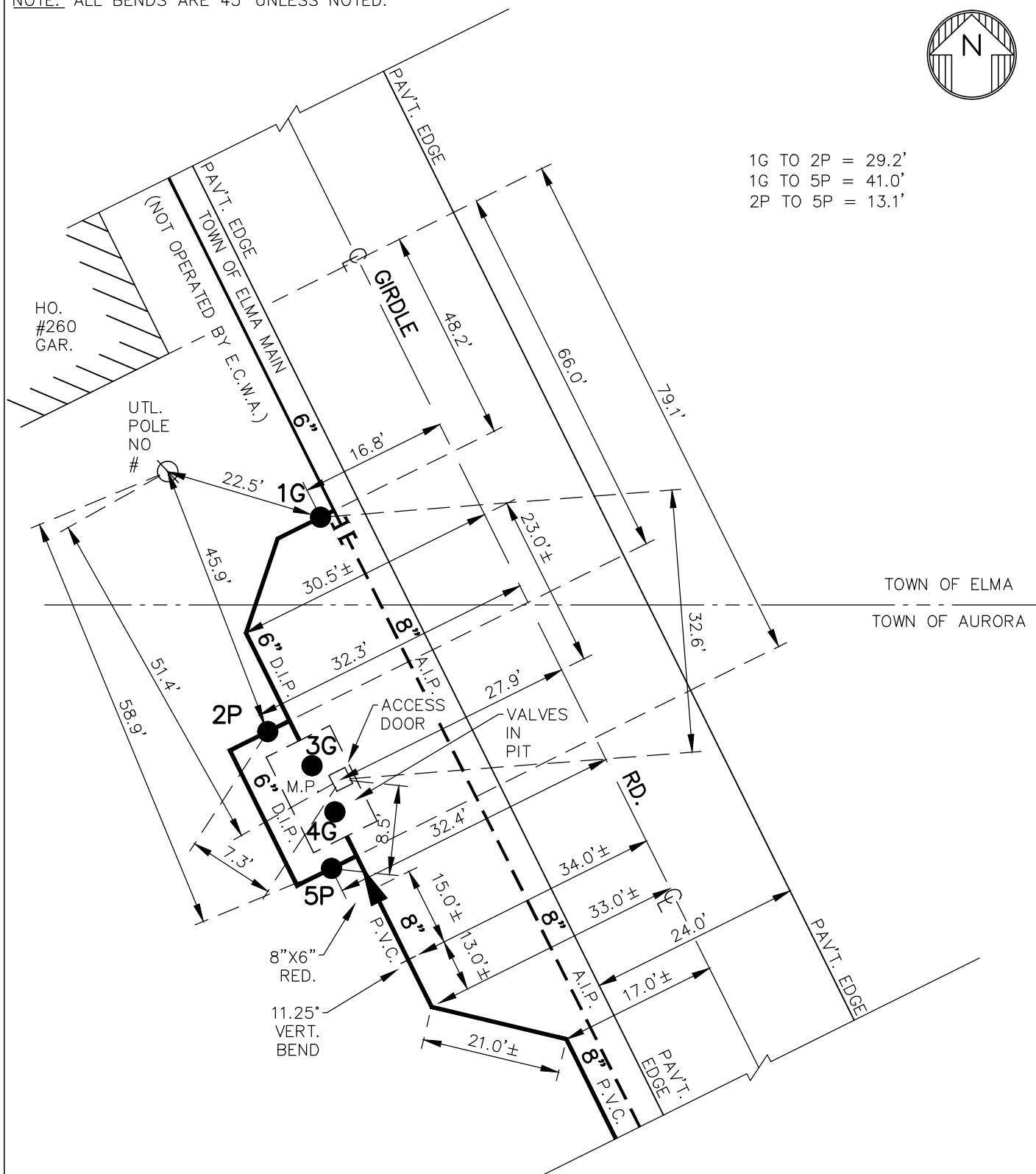
TOWN OF AURORA
E.C.W.A.
TOWN OF ELMA
TOWN OF ELMA W.D.

N15-F52
 DETAIL SHT. NO.
 201300171
 CURRENT PROJECT NO.

NOTE: ALL BENDS ARE 45° UNLESS NOTED.



1G TO 2P = 29.2'
 1G TO 5P = 41.0'
 2P TO 5P = 13.1'



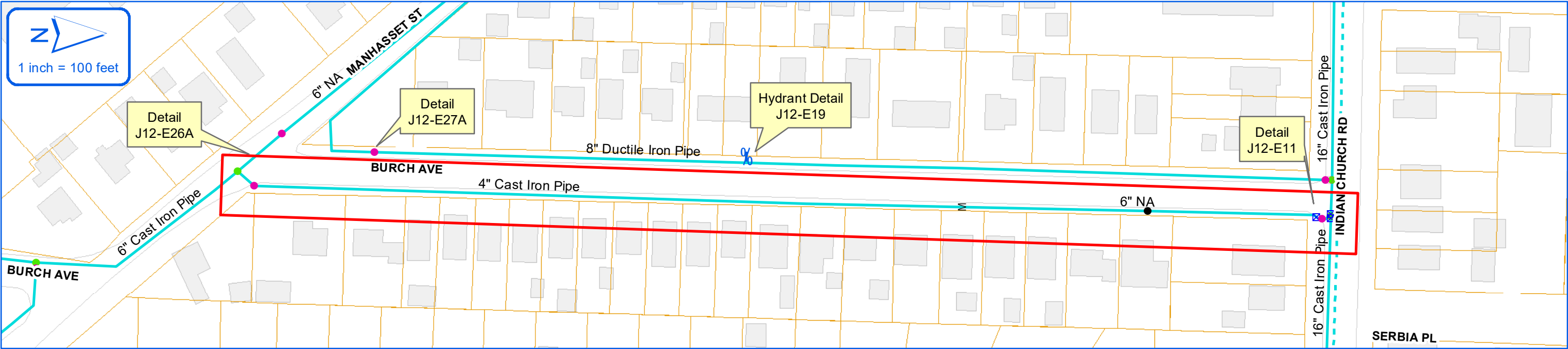
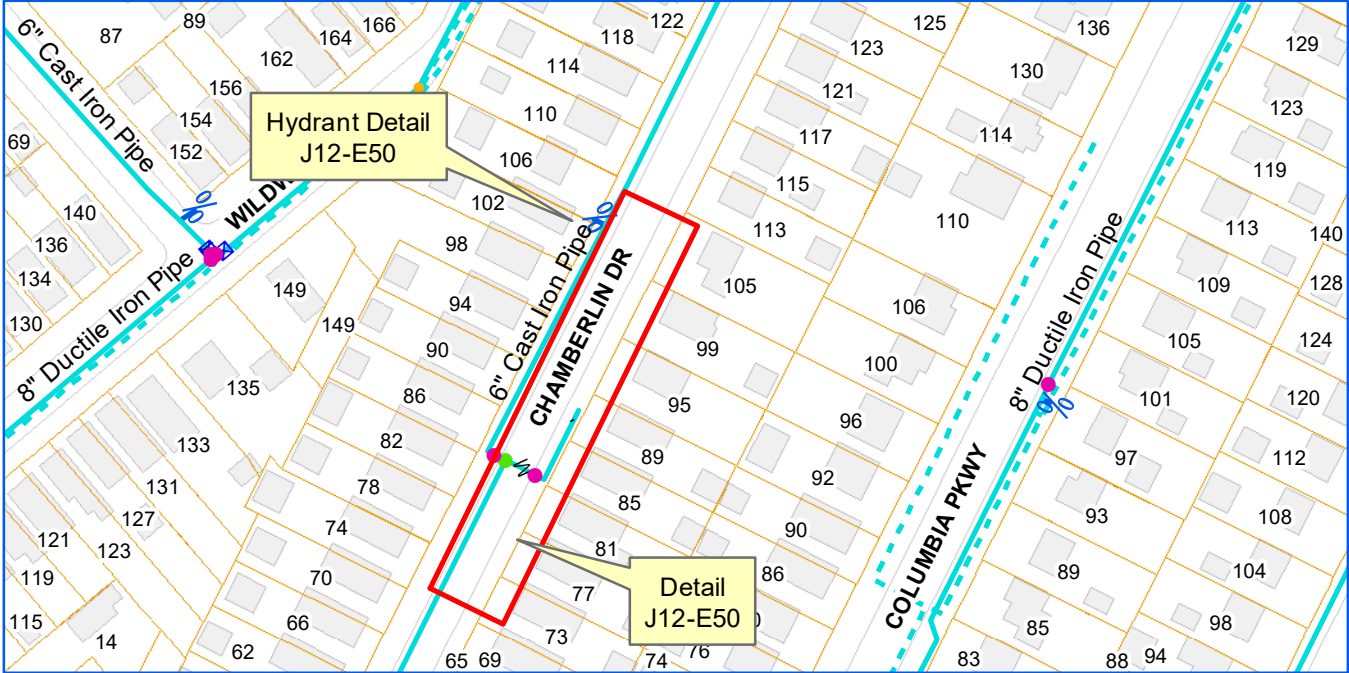
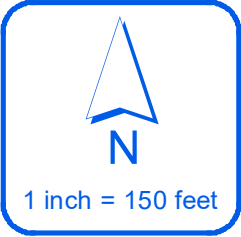
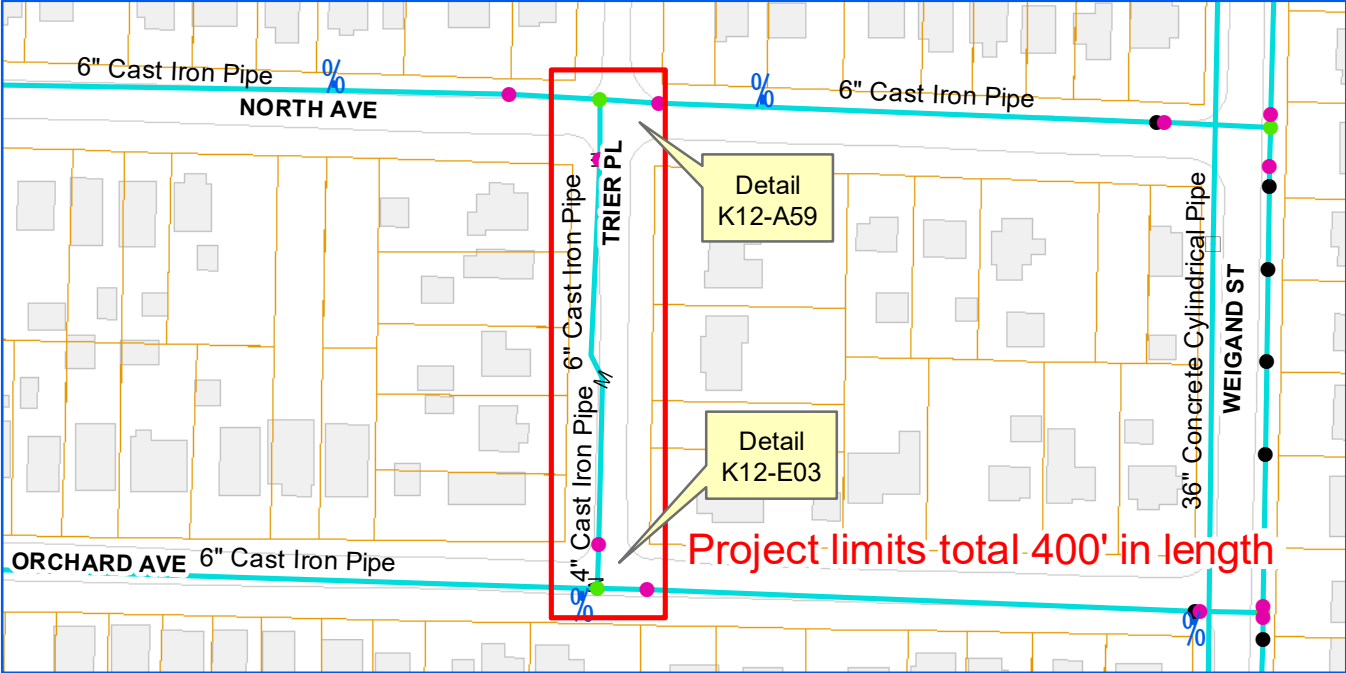
NOTE: DETAIL DRAWN ON CAD SYSTEM.
 LOCATION AND TYPE OF BENDS FROM
 AS-BUILTS, NOT FIELD CHECKED.
 ± DIMENSIONS FROM AS-BUILTS, NOT
 FIELD CHECKED.

AUTN-928-1301

N15-F52
 DETAIL SHT. NO.

MASTER COPY

TOWN OF WEST SENECA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "B"

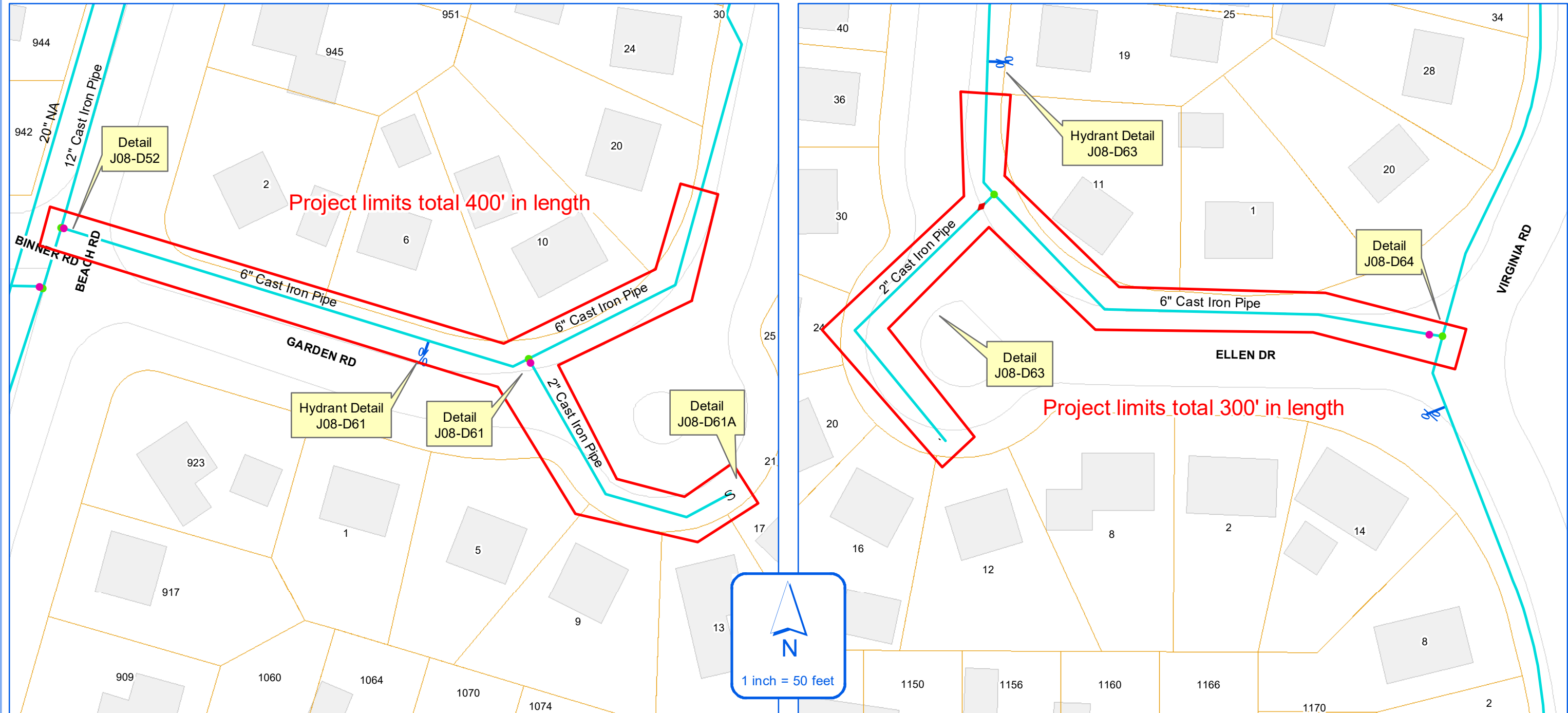
TOWNS OF CHEEKTOWAGA & WEST SENECA, NY & VILLAGE OF DEPEW, NY

TOWN OF CHEEKTOWAGA
GARDEN RD. FROM BEACH RD TO 20 GARDEN RD.
ELLEN DR. FROM VIRGINIA RD. TO 35 ELLEN DR.
WING CT. FROM BURDETTE DR. TO END OF CUL-DE-SAC
CLOVER PL. FROM UNION RD. TO 255 CLOVER PL.
MEADOW PL. FROM CHEROKEE DR. TO GENESEE ST.
DUCHESS CT. FROM BEACH RD. TO END OF CUL-DE-SAC

TOWN OF WEST SENECA
TRIER AVE. FROM ORCHARD AVE. TO NORTH AVE.
6" & 4" MAIN ABANDONMENT ON BURCH AVE.
4" MAIN ABANDONMENT ON CHAMBERLIN DR.

VILLAGE OF DEPEW
KOKOMO ST. FROM WENONA ST TO BROADWAY
SHORT ST. FROM WENONA ST TO BROADWAY
MUSKINGUM ST. FROM MAIN ST. TO ST. JAMES ST.
ERIE ST. FROM BROADWAY TO TERRACE BLVD.
BROADWAY FROM PENORA ST. TO CALUMET ST.
CALUMET ST. FROM BROADWAY TO TERRACE BLVD.
ROSSITER AVE. FROM SHERWOOD CT. TO GEORGE URBAN BLVD.
2" MAIN ABANDONMENT ON LINCOLN ST. FROM 80 TO 114 LINCOLN ST.

TOWN OF CHEEKTOWAGA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002 WATERLINE REPLACEMENT PROJECT CONTRACT "B"

TOWNS OF CHEEKTOWAGA & WEST SENECA, NY & VILLAGE OF DEPEW, NY

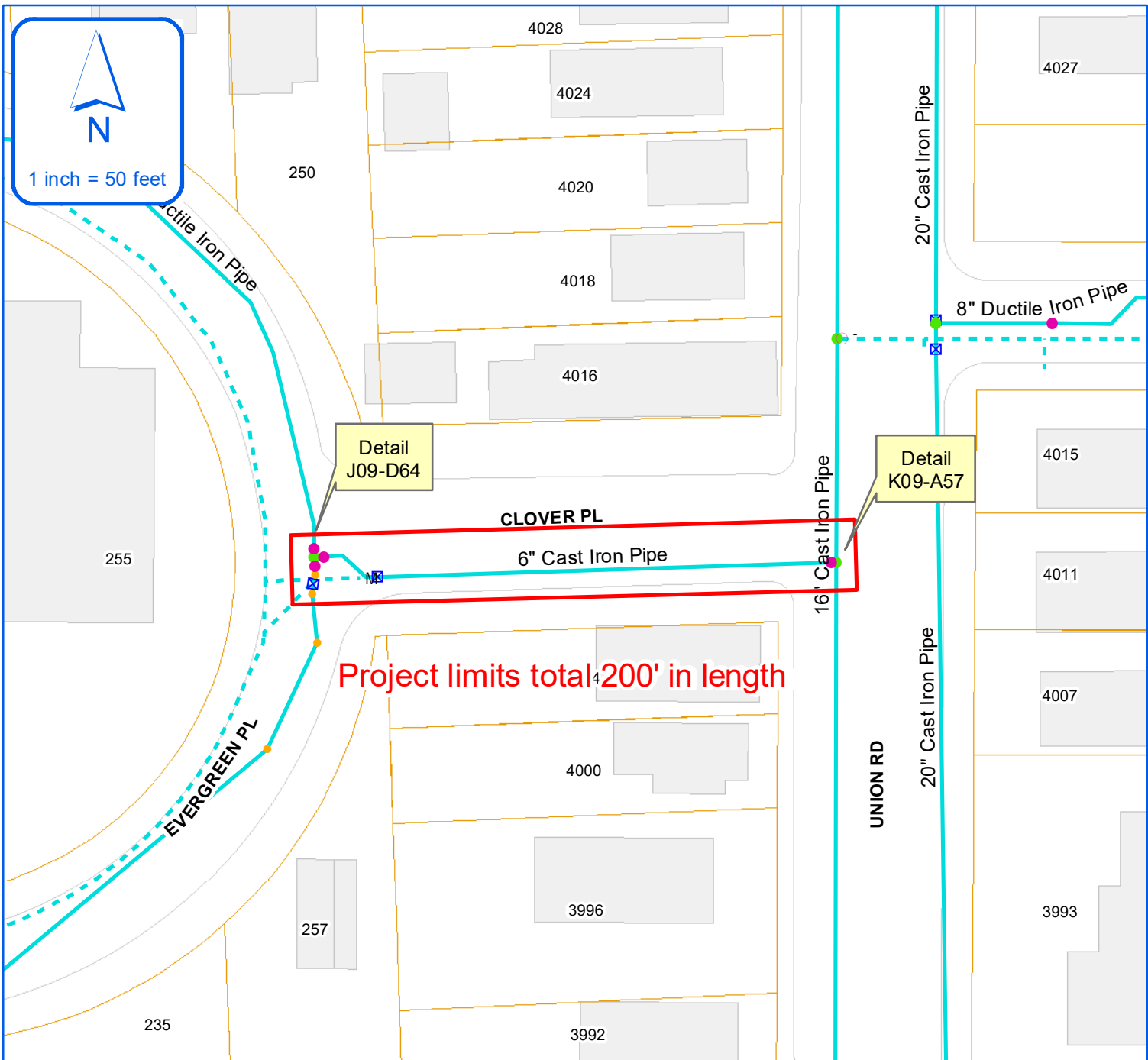
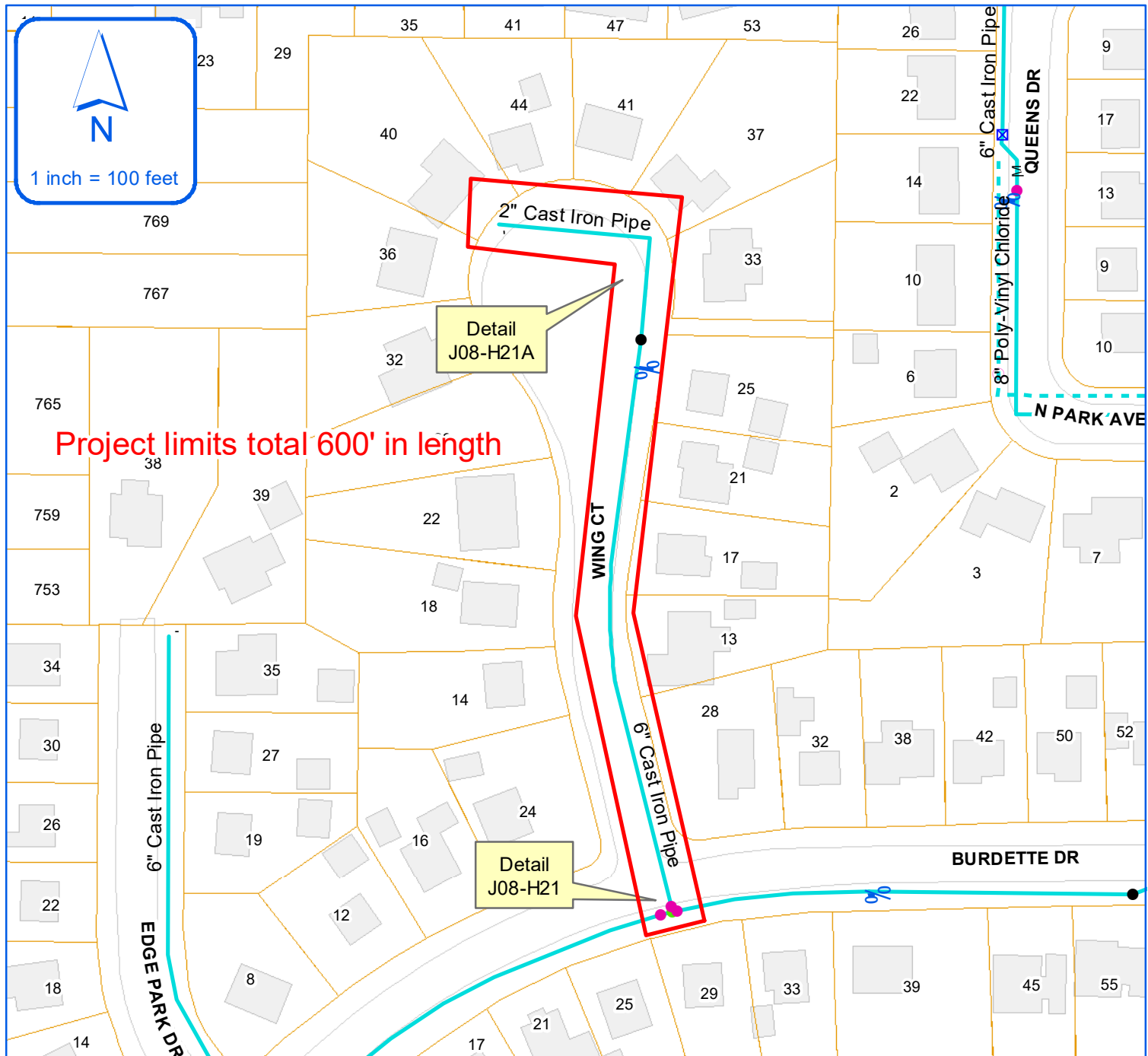
TOWN OF CHEEKTOWAGA
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RDC

TOWN OF CHEEKTOWAGA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "B"

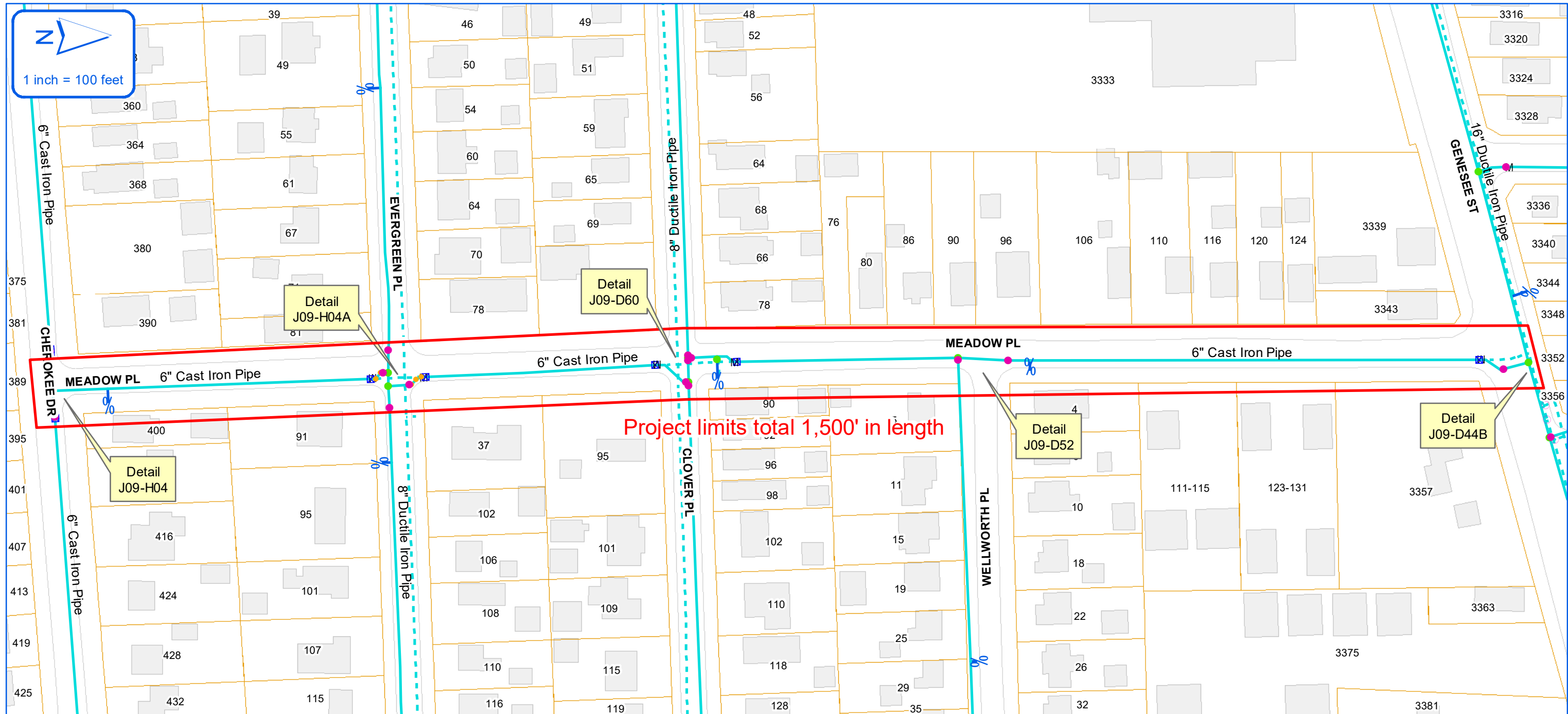
TOWNS OF CHEEKTOWAGA & WEST SENECA, NY & VILLAGE OF DEPEW, NY

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TOWN OF CHEEKTOWAGA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "B"

TOWNS OF CHEEKTOWAGA & WEST SENECA, NY & VILLAGE OF DEPEW, NY

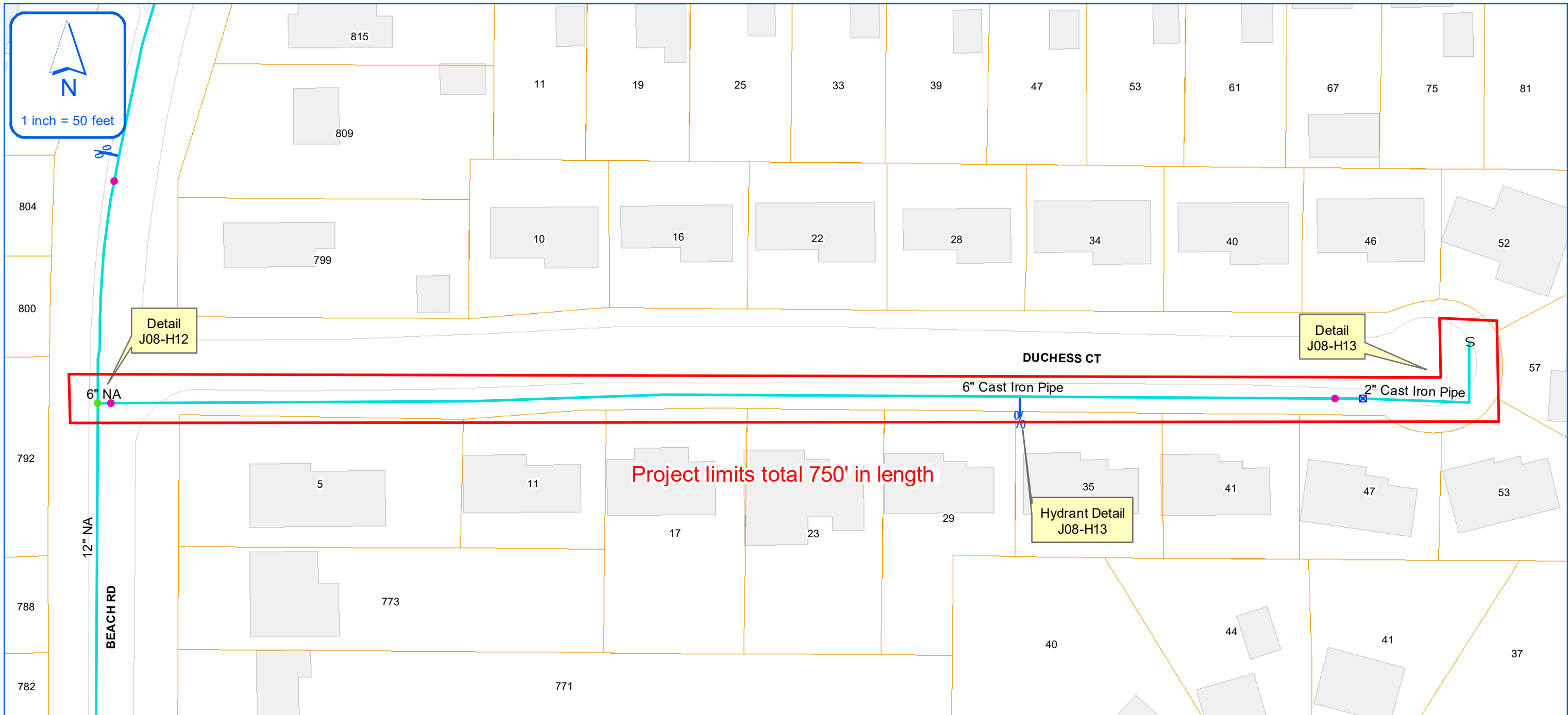
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RDC

TOWN OF CHEEKTOWAGA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "B"

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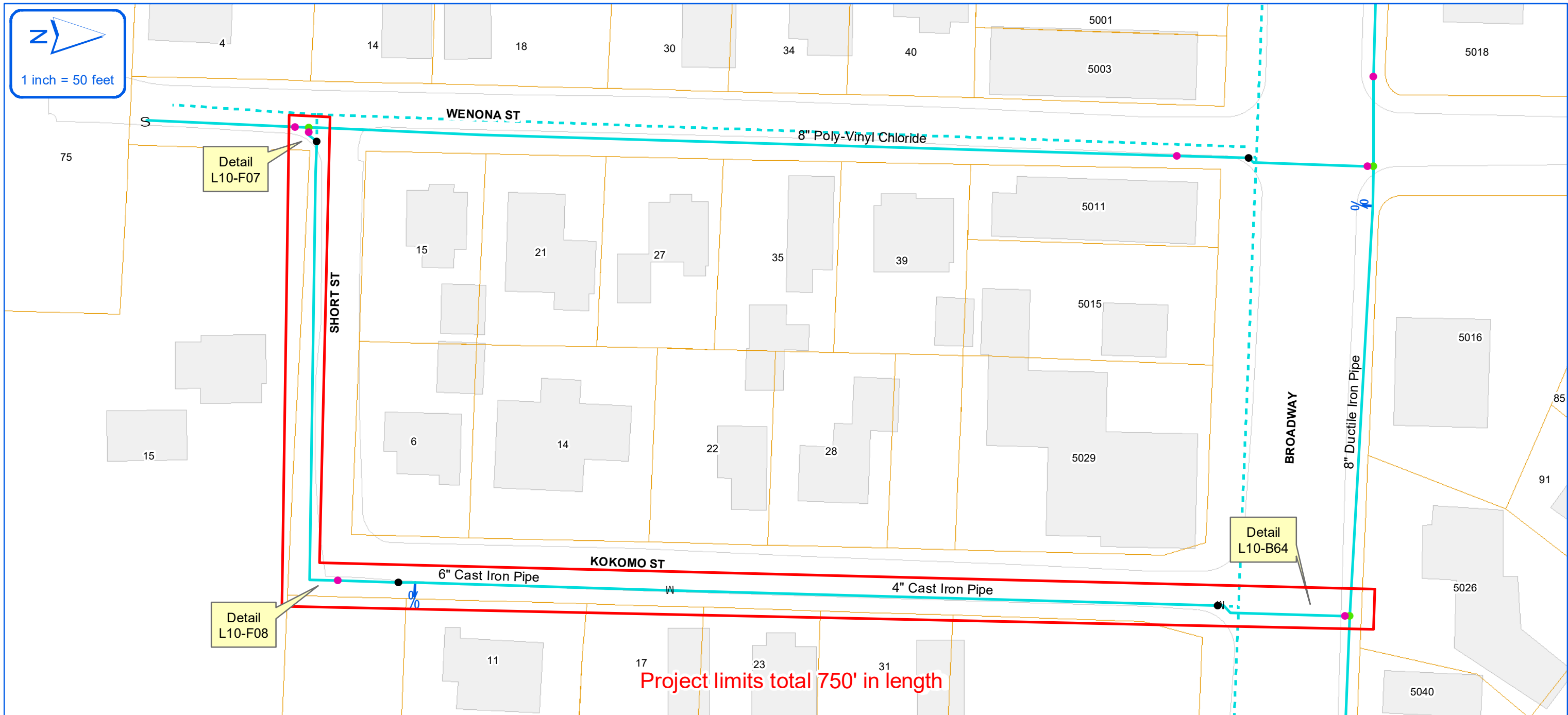
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VILLAGE OF DEPEW



ERIE COUNTY WATER AUTHORITY
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ECWA-223-2002 / ECWA P.N. 202000002
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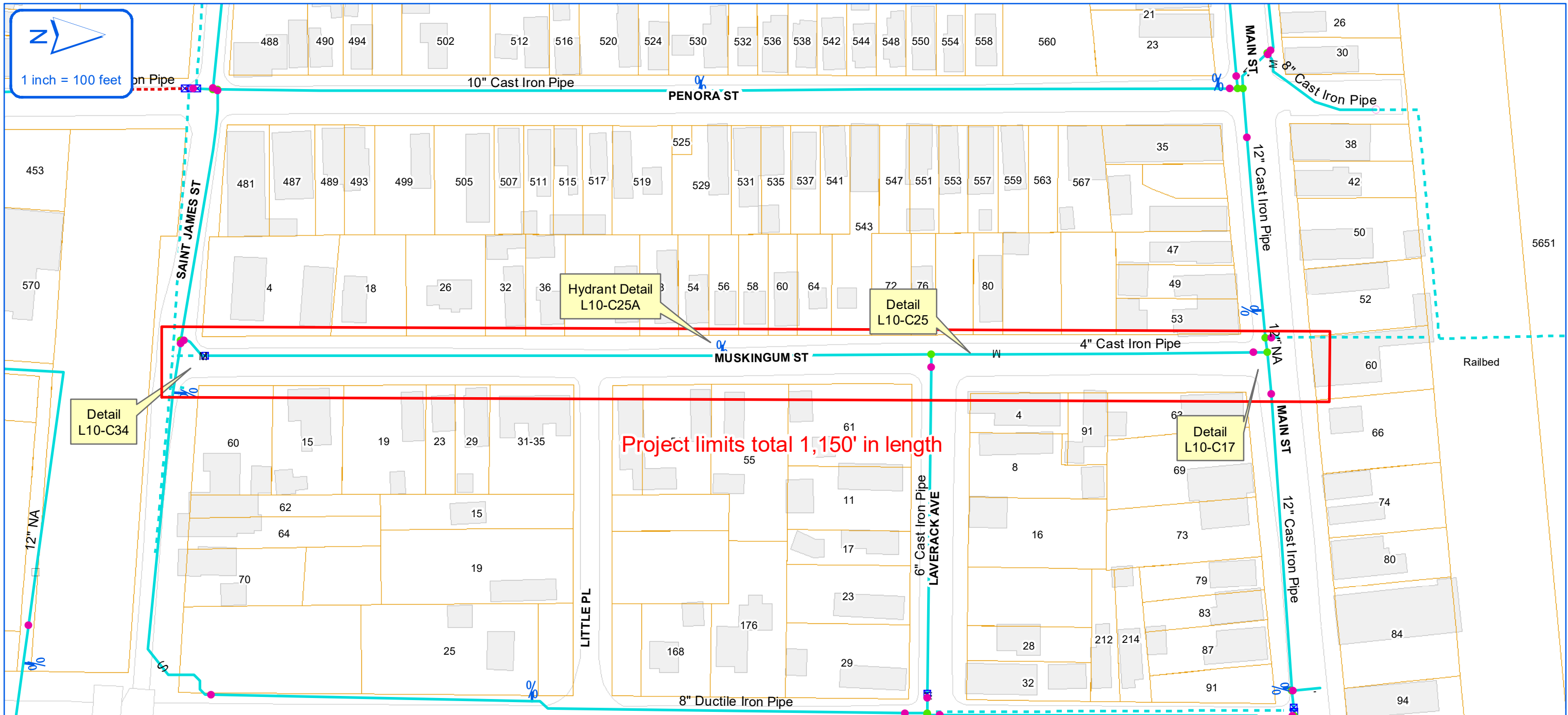
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VILLAGE OF DEPEW



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BUFFALO, NY

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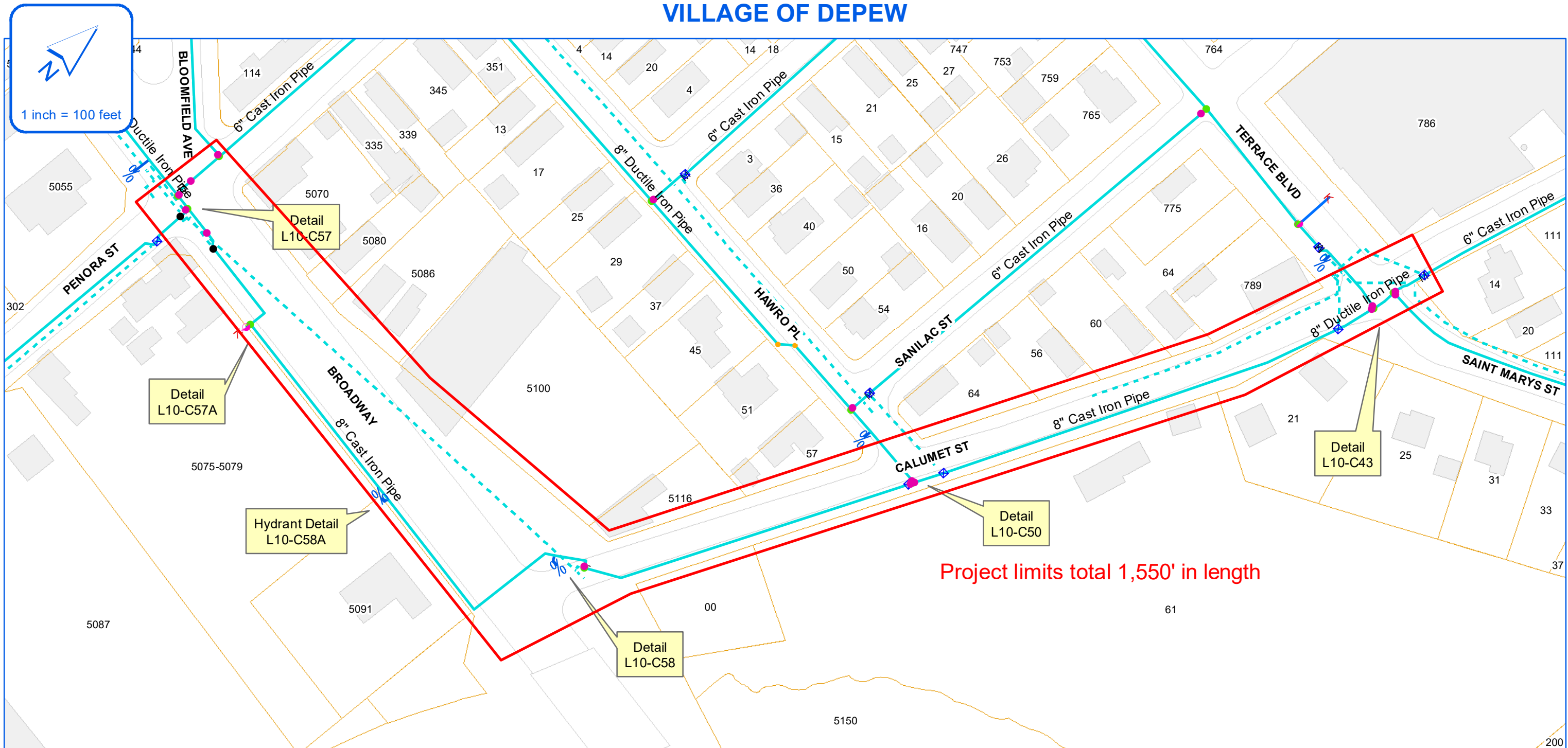
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VILLAGE OF DEPEW



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
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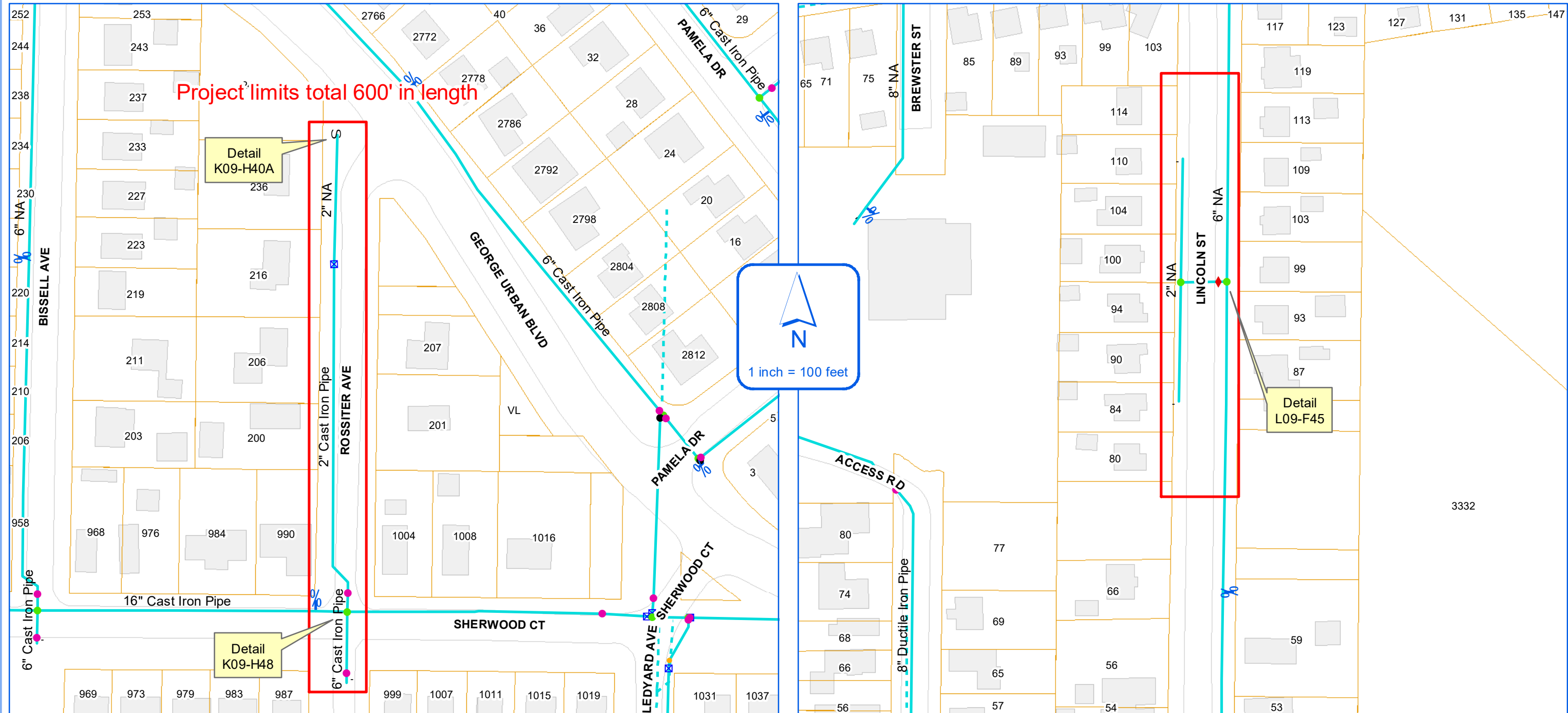
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VILLAGE OF DEPEW



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "B"

TOWNS OF CHEEKTOWAGA & WEST SENECA, NY & VILLAGE OF DEPEW, NY

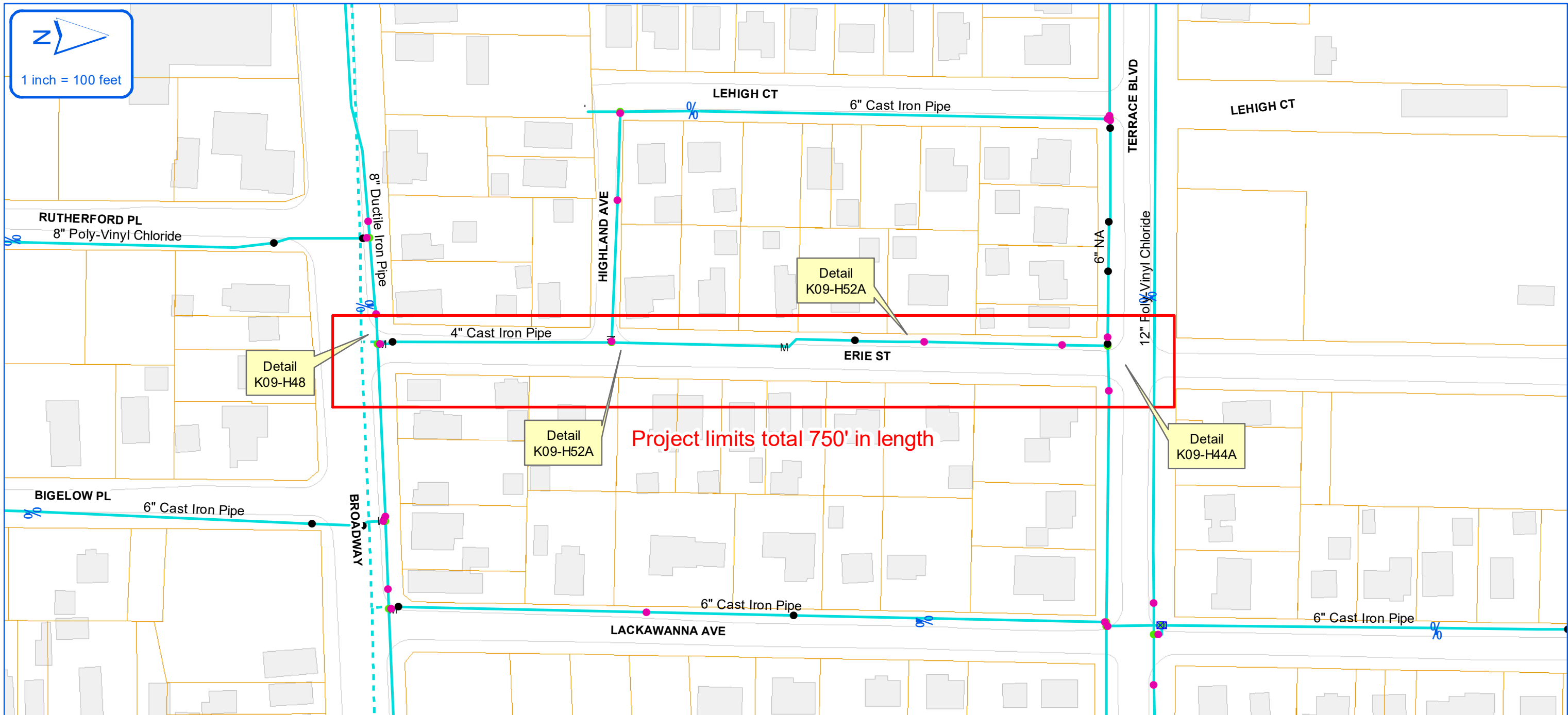
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RDC

VILLAGE OF DEPEW



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002 WATERLINE REPLACEMENT PROJECT CONTRACT "B"

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EC
WA

ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. D.K.C.

DATE: 6.22.11

FIELD

DR.

DATE:

OFFICE

TOWN OF WEST SENECA

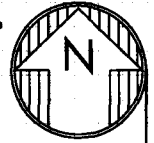
E.C.W.A.

J12-E11
DETAIL SHT. NO.

200800093
CURRENT PROJECT NO.

NOTE: VALVE 3SV IS UNDER
STORM SEWER. VALVE IS
TURNED ON SIDE W/
OPERATING NUT LAYED
TO EAST.

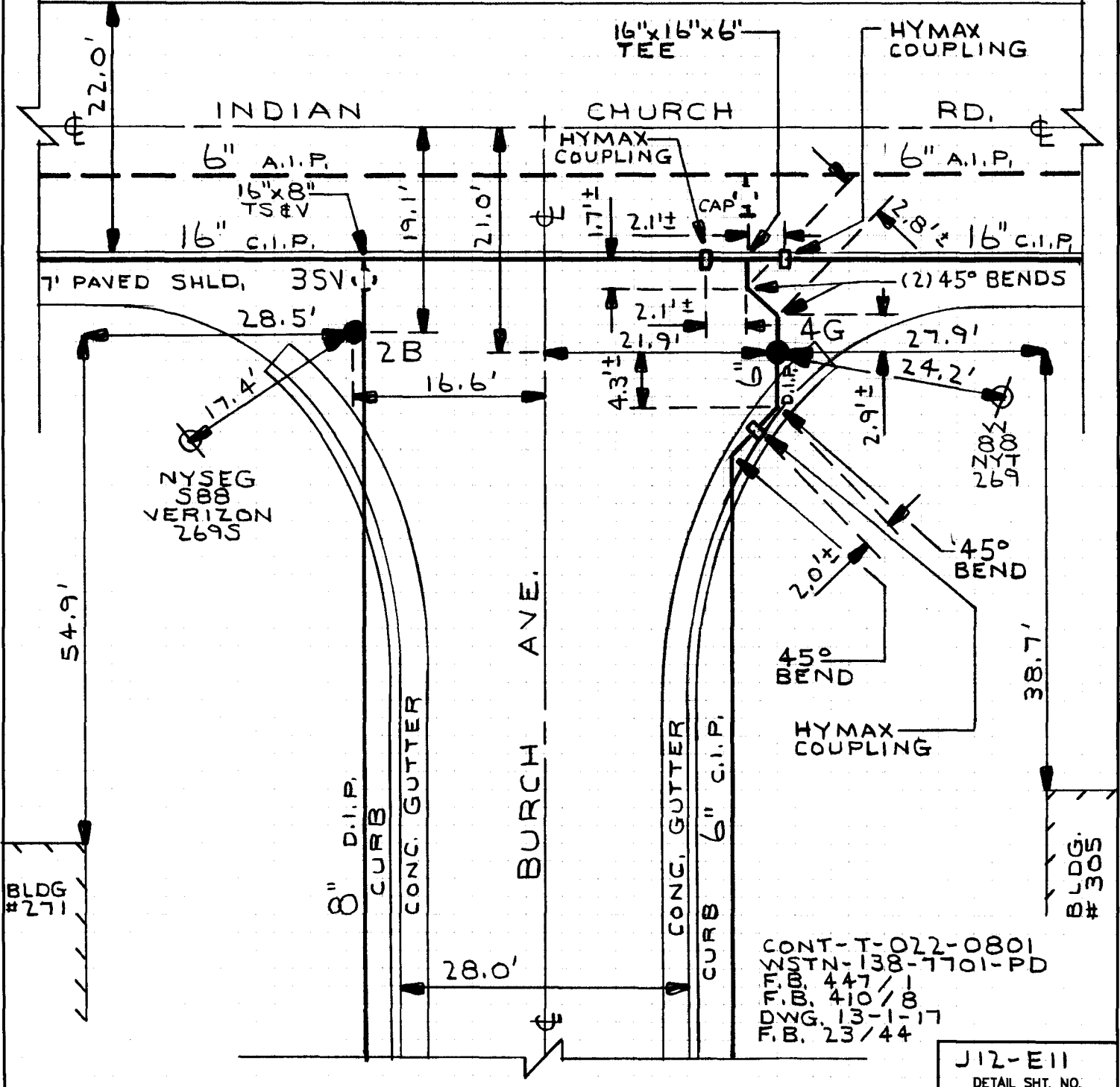
NOTE: ± DIMENSIONS
ARE FROM AS-BUILTS.
NOT FIELD CHECKED.



VALVE 1G A.I.P. UNDER
CONT-T-022-0801

2B TO 4G-39.2'

6' PAVED SHOULDER



CONT-T-022-0801
STN-138-7701-PD
F.B. 447/1
F.B. 410/8
DWG. 13-1-17
F.B. 23/44

J12-E11
DETAIL SHT. NO.

MASTER COPY



人死

142

452.0 STA TO MAIN 452.77

2019

110

112-E-19

KENNEY
APT BLDG
#220

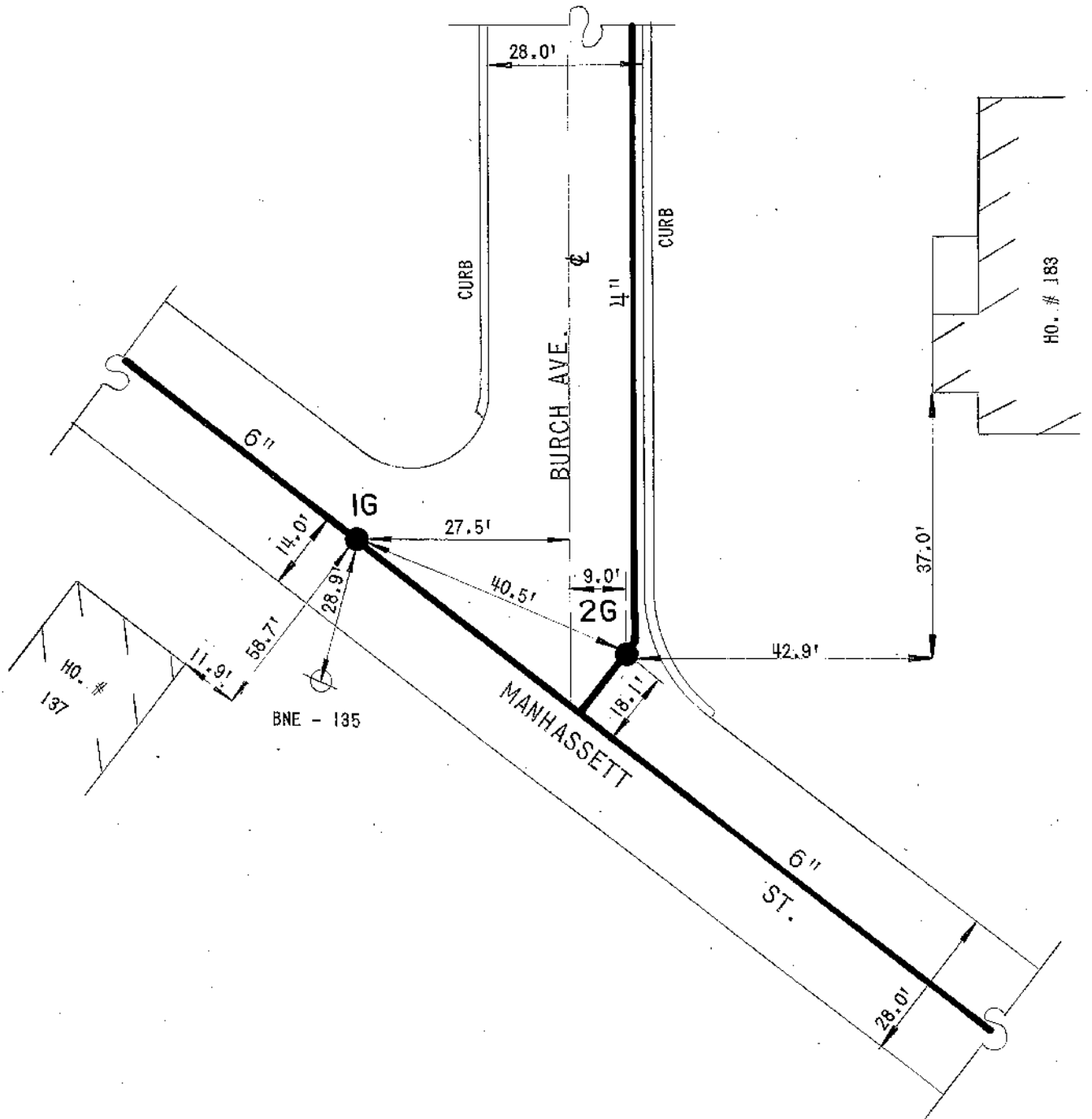
Burc H

8" FB474/4

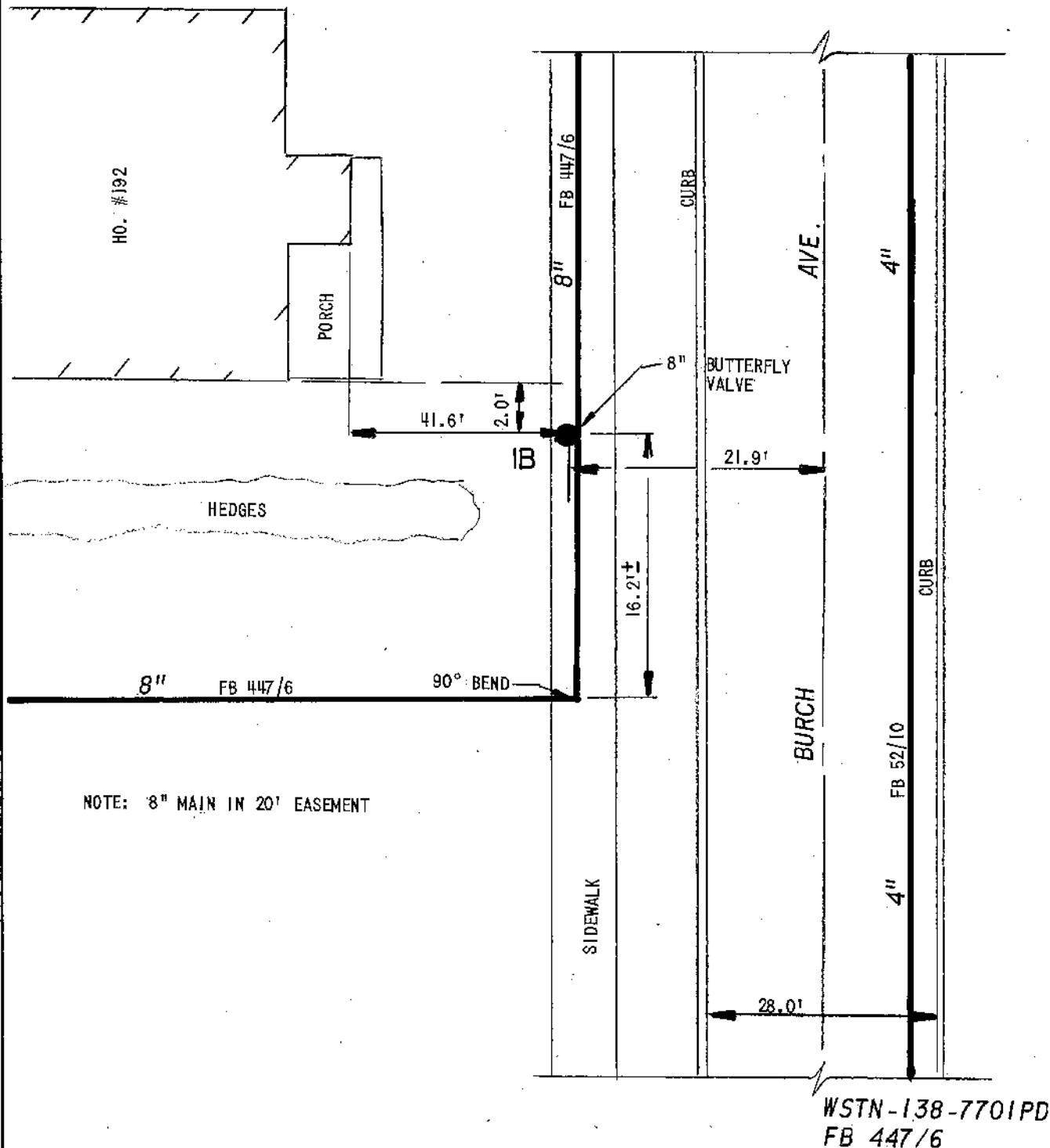
CONT^V PG 17

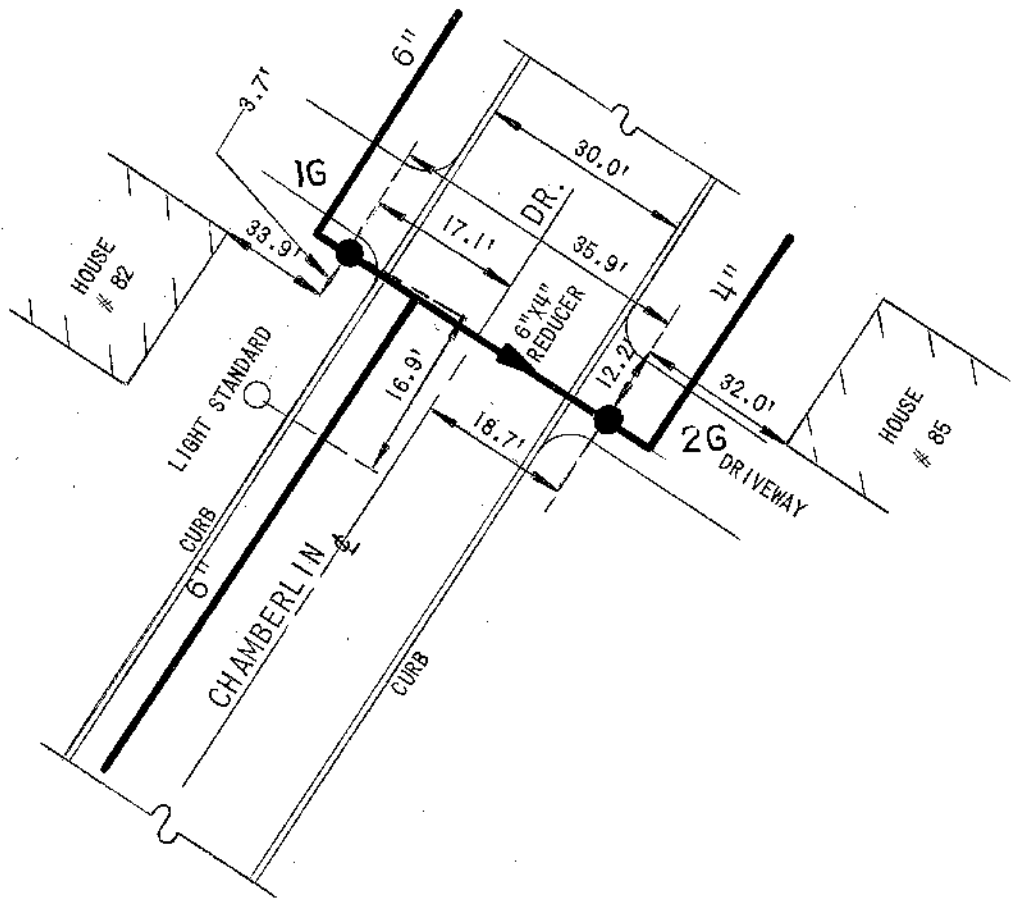
INDIAN CHURCH

CHURCH Pg 17



DETAIL SHEET NO.





O.C.P. 6073 (1929) PL. 69

DETAIL SHEET NO.

Pg 2

CHAMBERLIN DR
ECWA TOWN OF U.S.

OCP 6073 (1929)

J12E50 PLR & RLB & RLC

PL#69

HYD REPL

CONT'D ON Pg 3

KENNEY

HO#102

EC 3433 (82)

J12-E50

2.8' 18.9'



6"

CURB

DR

500.0'

CURB

160.0' IN LENGTH
FOR 1 or 2 HOUSES

30.0'

4"

HO#85

32.0'

DRIVEWAY
FOR HO#86

3.7'

6"

6"X4" REDUCER
35.9'

17.1'

18.7'

12.2'

DRIVEWAY FOR

33.9'

16.9'

CURB

6"

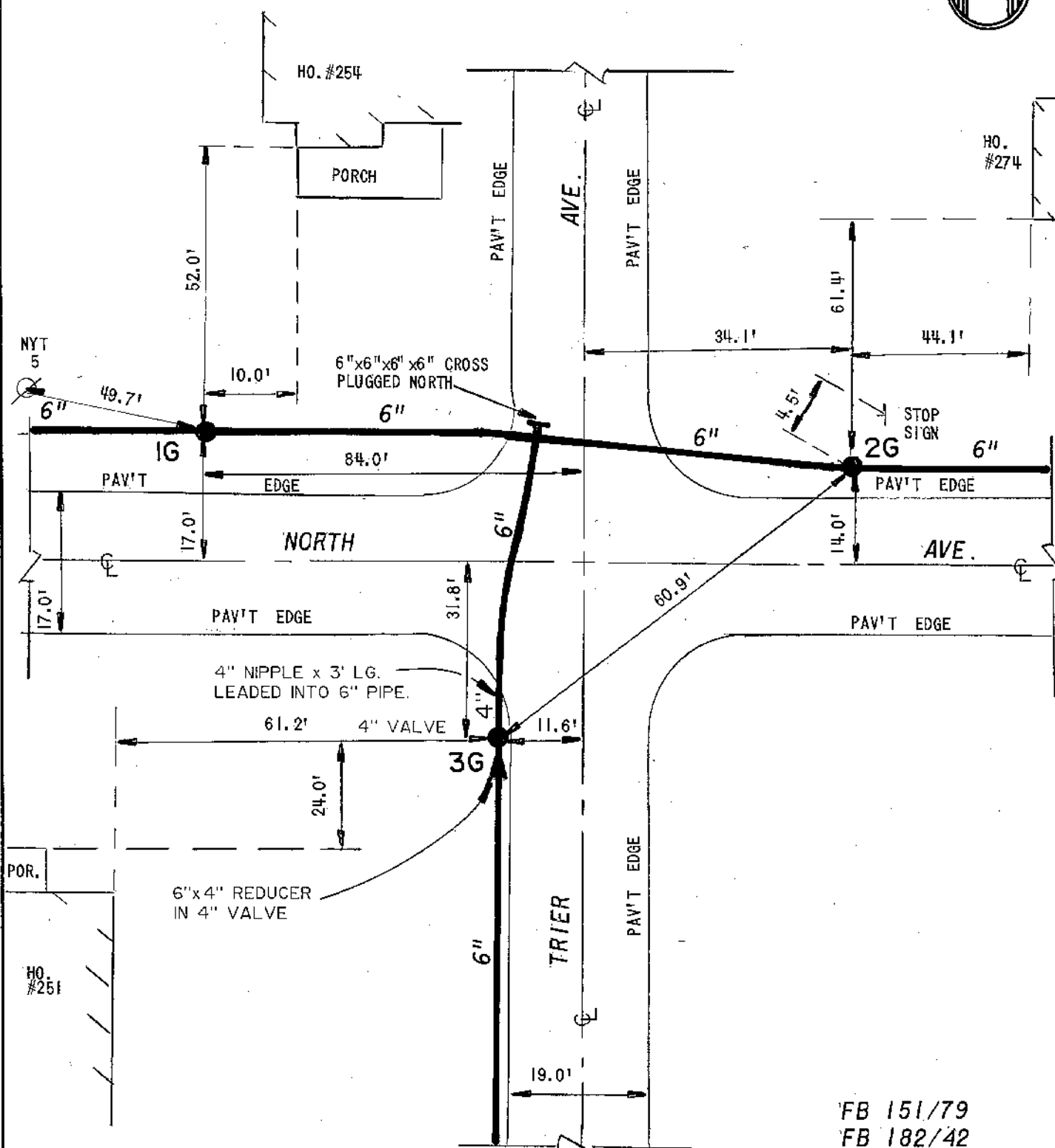
306.0'

CHAMBERLIN &

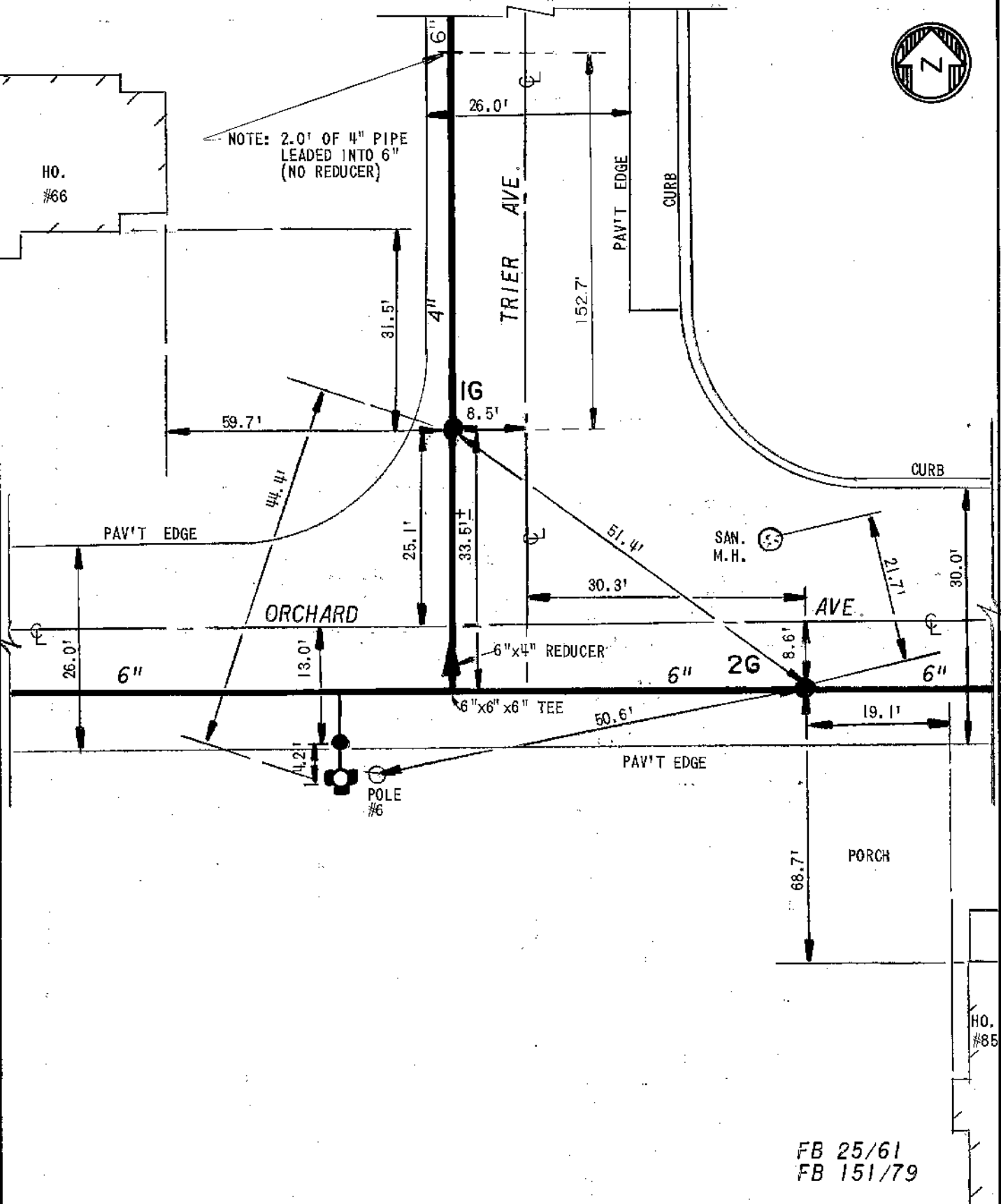
CURB

CONT'D FROM Pg 1


LAST HYD



FB 151/79
FB 182/42
FB 240/69



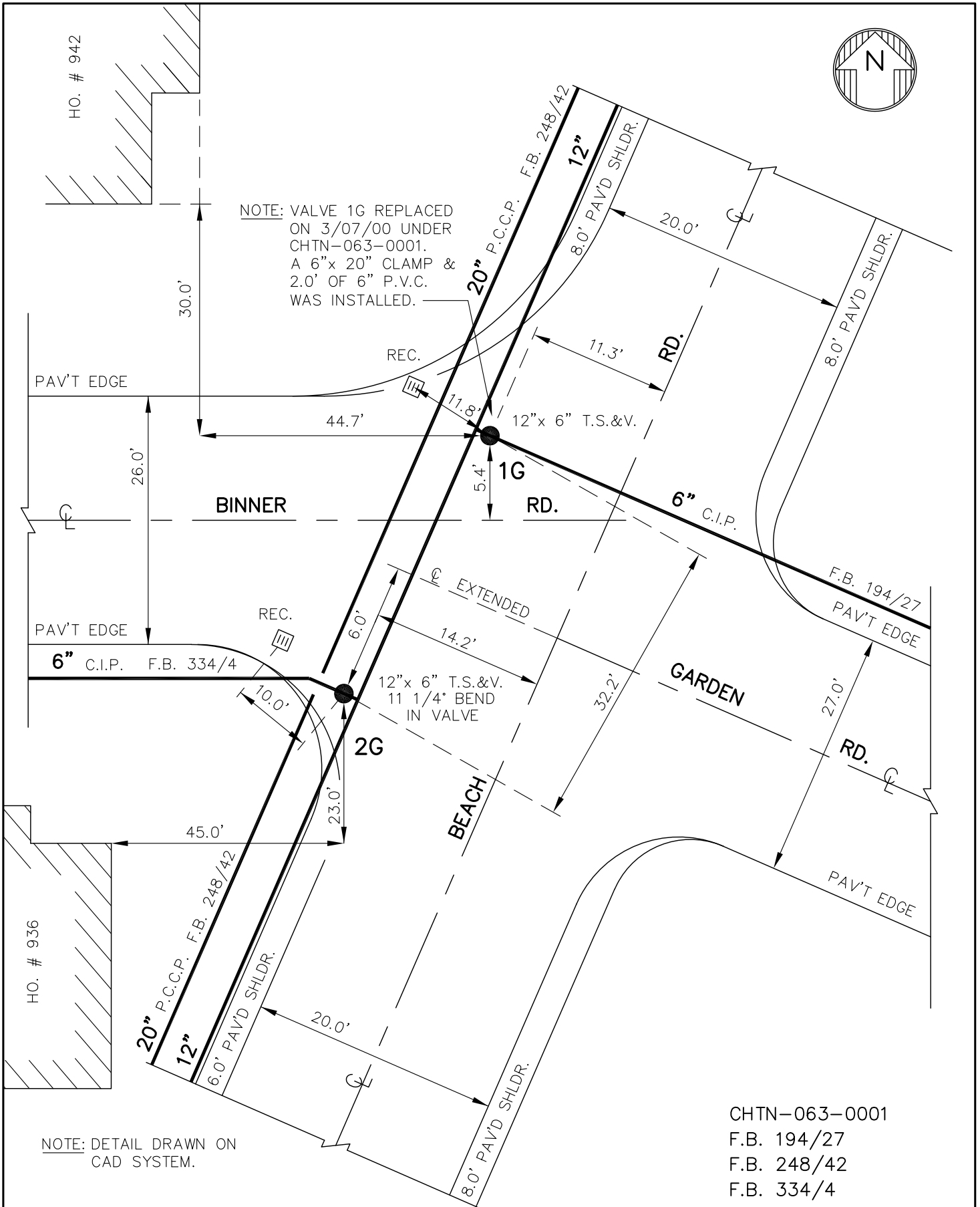
FB 25/61
FB 151/79

 EC ERIE COUNTY WA WATER AUTHORITY BUFFALO, NEW YORK	REVISED DR. BY: D. P. Z. DATE: 12-4-91 NOT TO SCALE	TOWN OF WEST SENECA E.C.W.A.	KI2-E03 DETAIL SHEET NO.
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HO. # 942

NOTE: VALVE 1G REPLACED
ON 3/07/00 UNDER
CHTN-063-0001.
A 6"x 20" CLAMP &
2.0' OF 6" P.V.C.
WAS INSTALLED.



CHTN-063-0001
F.B. 194/27
F.B. 248/42
F.B. 334/4



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. N.G.S.

DATE: 2-22-01

FIELD

REVISED
DR. N.G.S.

DATE: 2-26-01

OFFICE

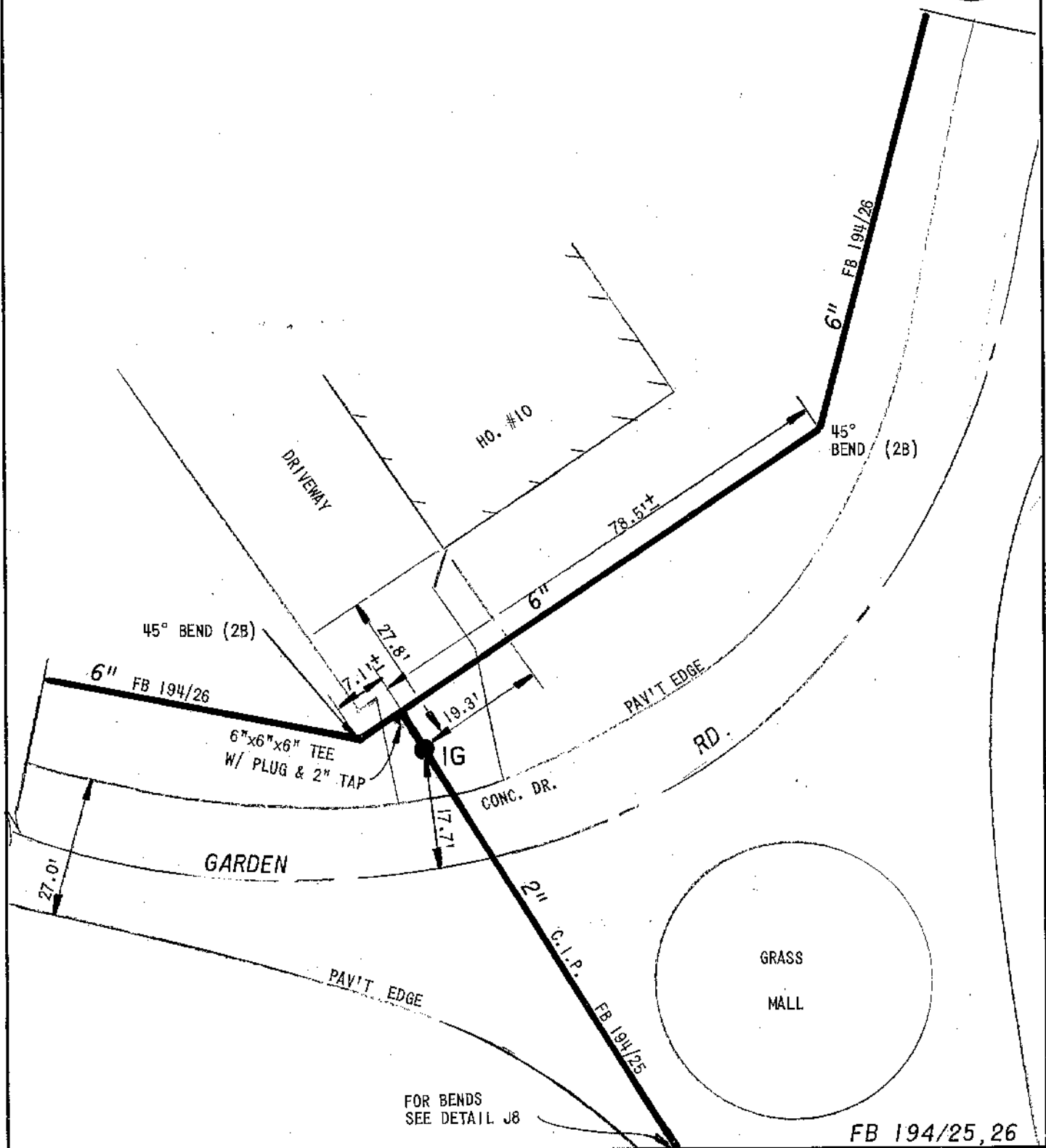
TOWN OF CHEEKTOWAGA

E.C.W.A.

J08-D52

DETAIL SHT. NO.
N.T.S.

MASTER COPY





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK



REVISED DR. J.M.U.

DATE: 8/02/89

FIELD

REVISED DR. D.M.C.

DATE: 1/11/16

OFFICE

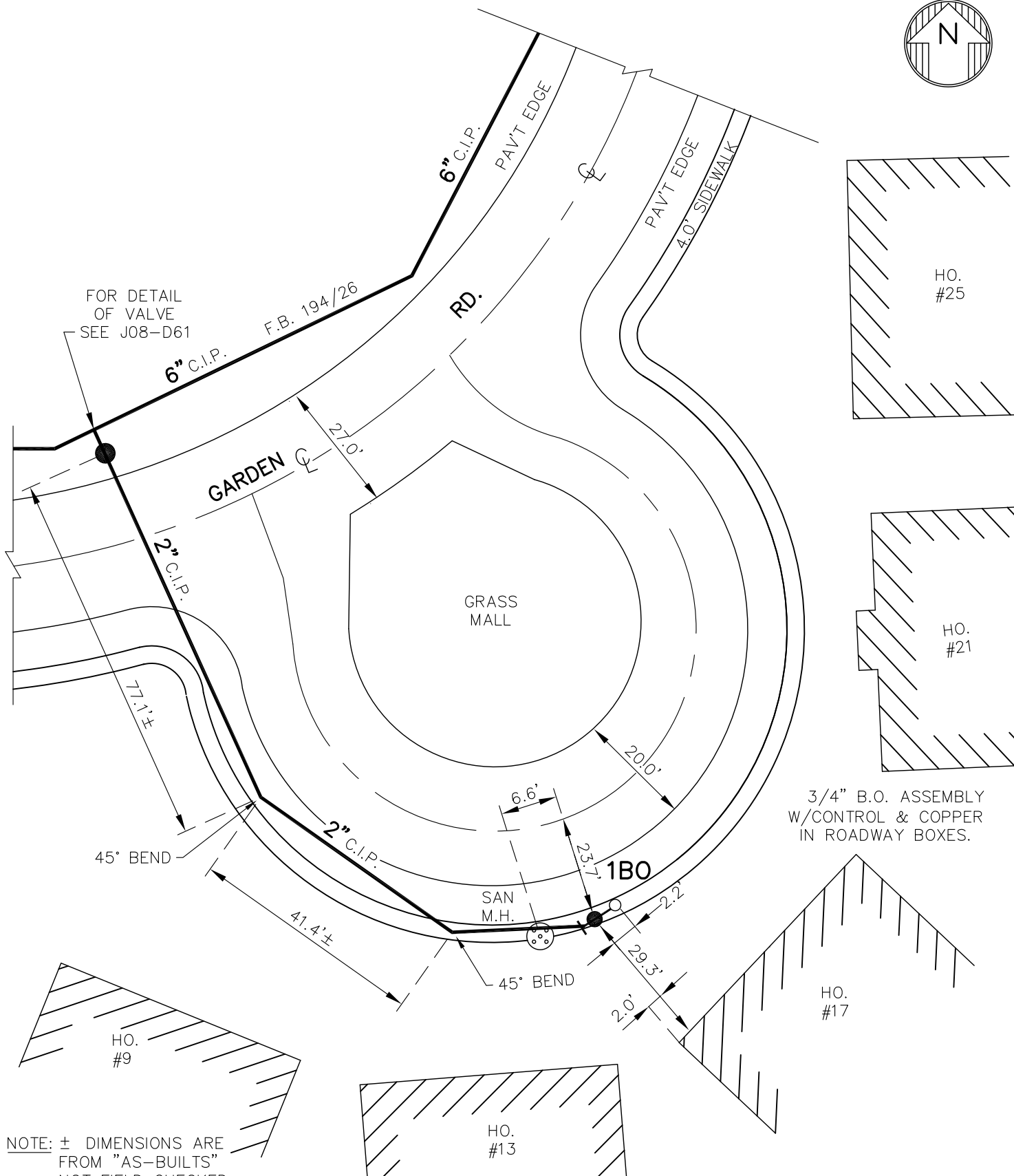
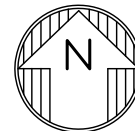
TOWN OF CHEEKTOWAGA

E.C.W.A.

J08-D61A

DETAIL SHT. NO.

CURRENT PROJECT NO.



FOR DETAIL
OF VALVE
SEE J08-D61

HO.
#25

HO.
#21

3/4" B.O. ASSEMBLY
W/CONTROL & COPPER
IN ROADWAY BOXES.

HO.
#17

HO.
#9

HO.
#13

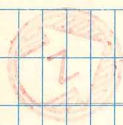
NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.

W.O. #1578732
FB 194/25, 26, 28

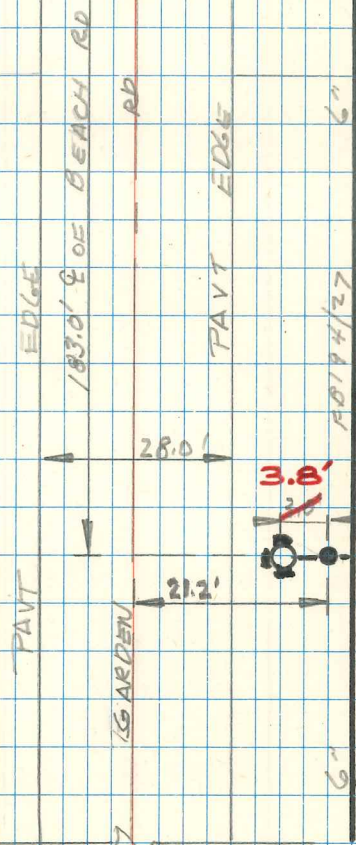
J108-D61A
DETAIL SHT. NO.

MASTER COPY

PG1 GARDEN RD
 PLOT 279 TN. OF CHEEK,
 18-D61 ECWA
 12/19/74 / 27 JCWE RLC 10-26-79



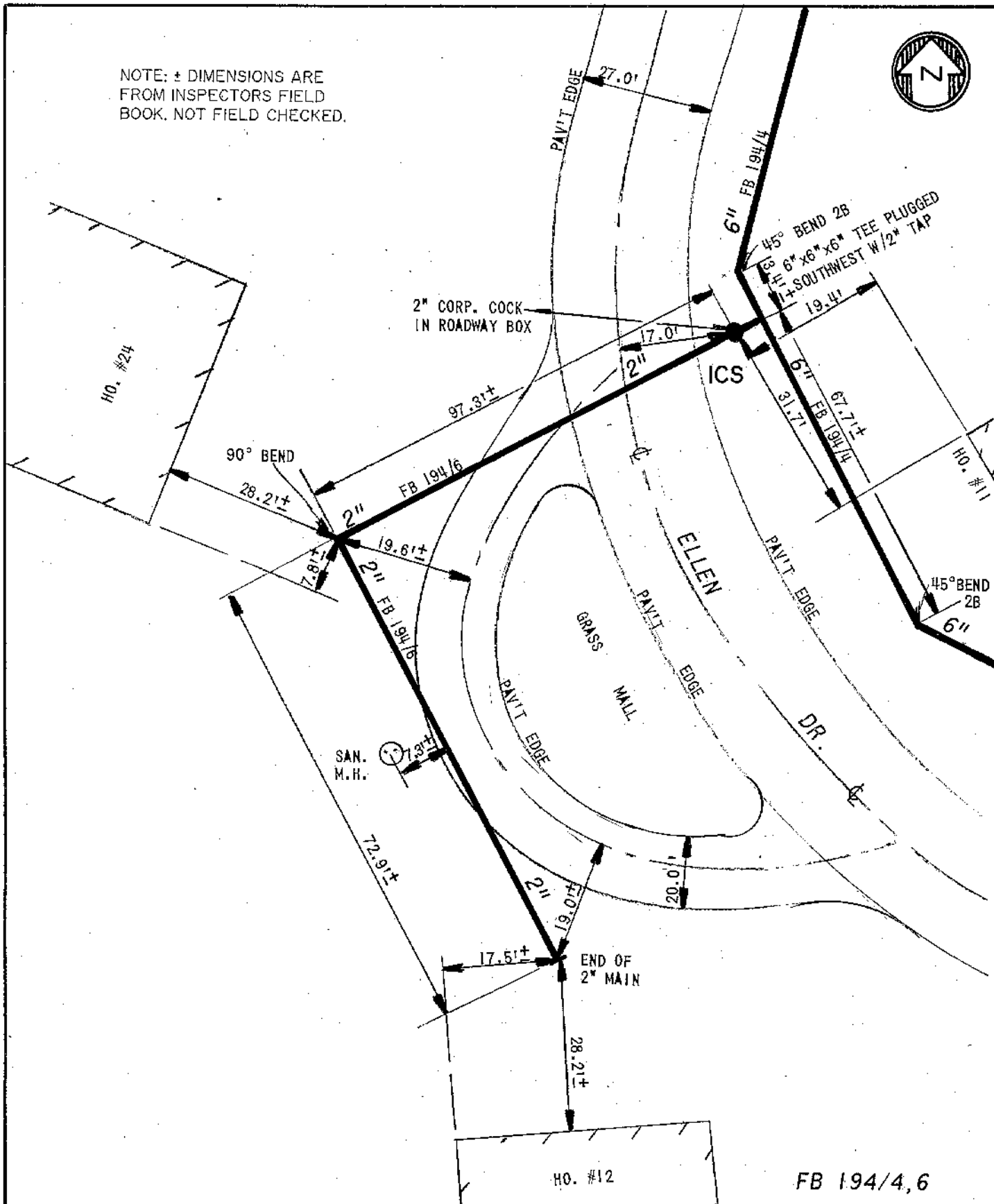
CONT ON PG 14
 BENCH RD



CONT ON PG 2

18D61
 KENNEDY K11
 10W
 HO#6
 HYD. REPL.
 EC-3496
 ON 8-6-82
 HYDR-163-
 8233-PA

NOTE: ± DIMENSIONS ARE
FROM INSPECTORS FIELD
BOOK, NOT FIELD CHECKED.

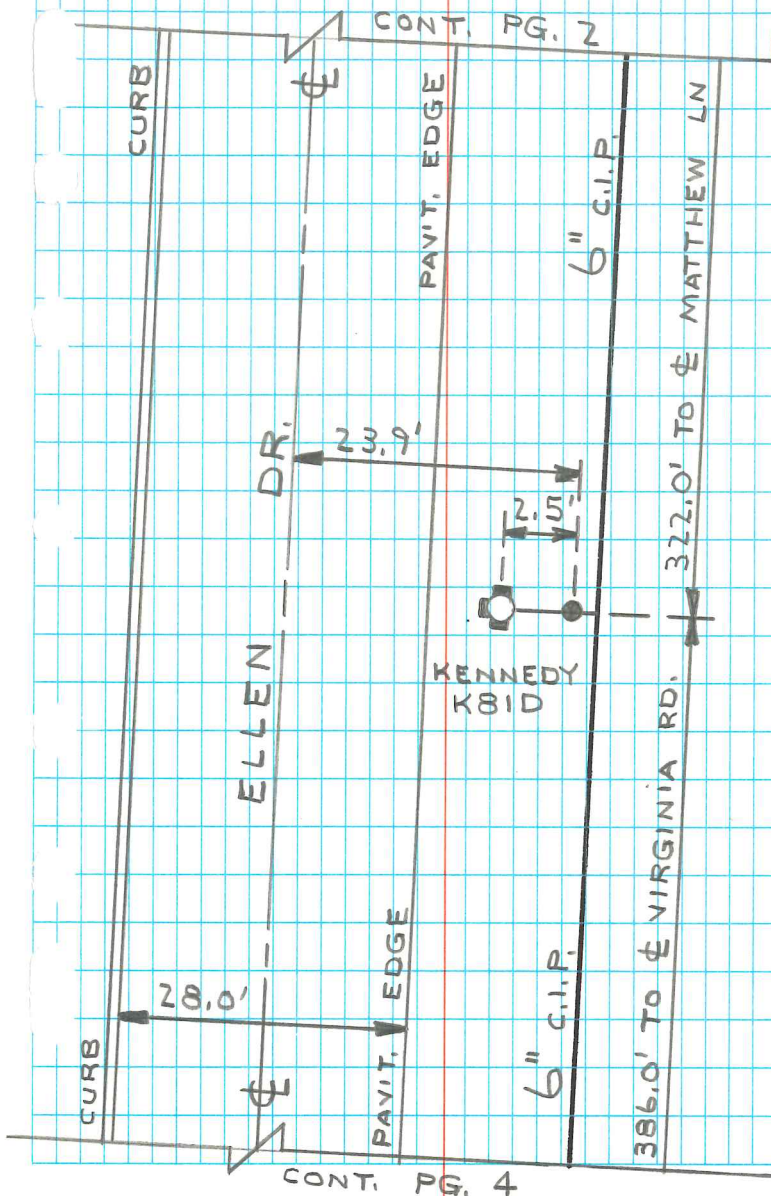


Pg. 3
JOB-D63

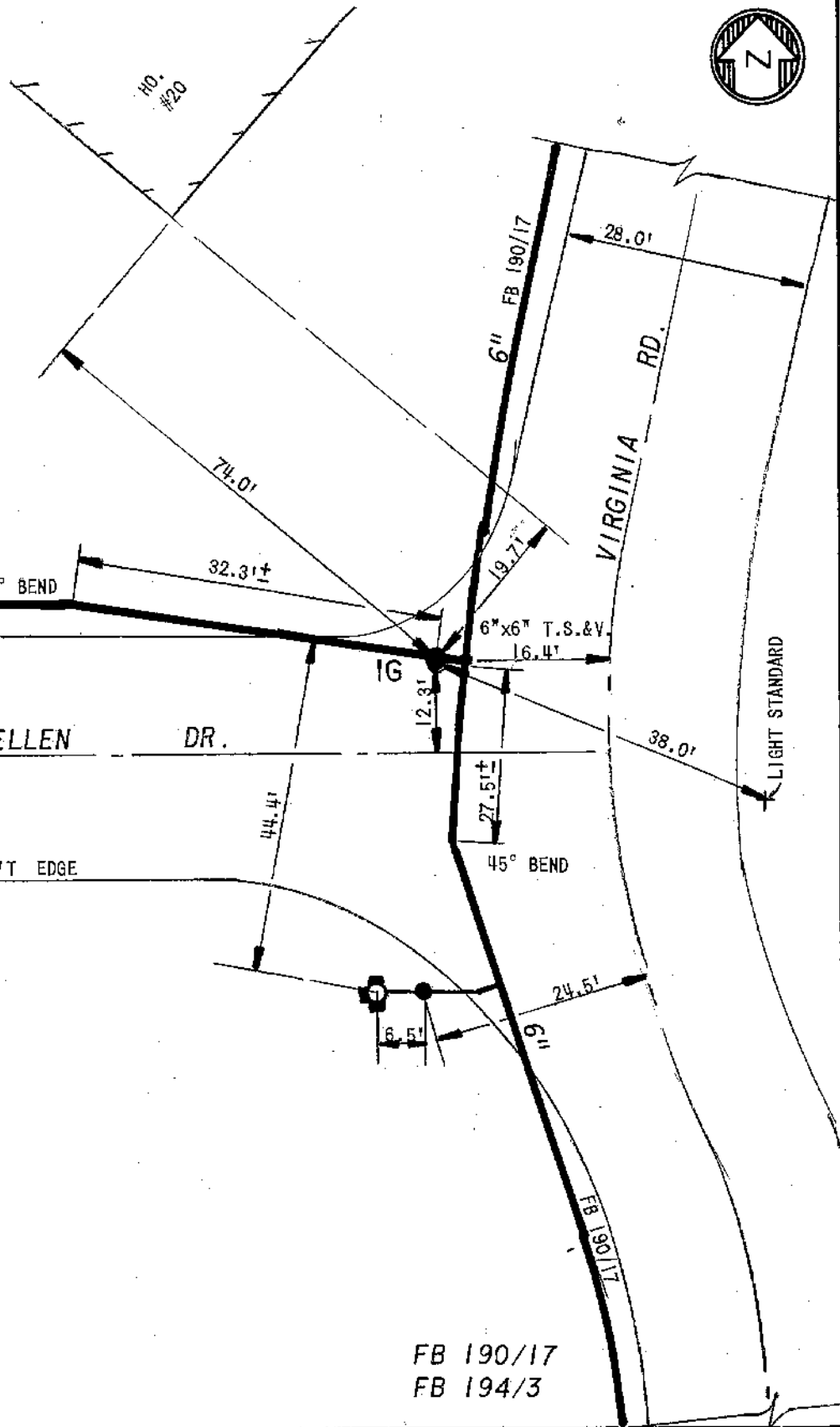
Ellen Dr.
Tn. of Cheektowaga
E.C.W.A.
D.K.C. 5.4.11

CHTN-257-1002

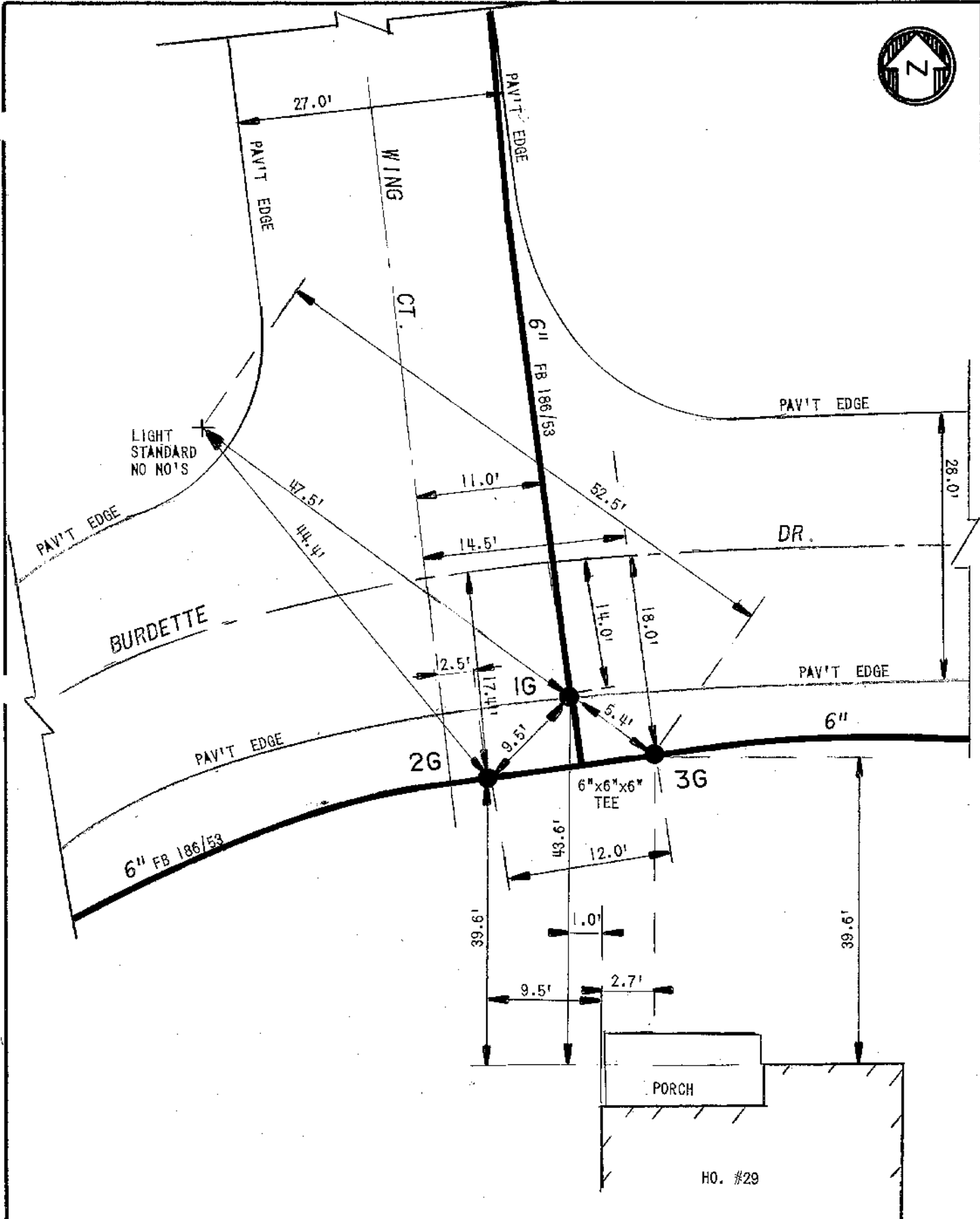
F.B. 1941/2




H.O.
#19

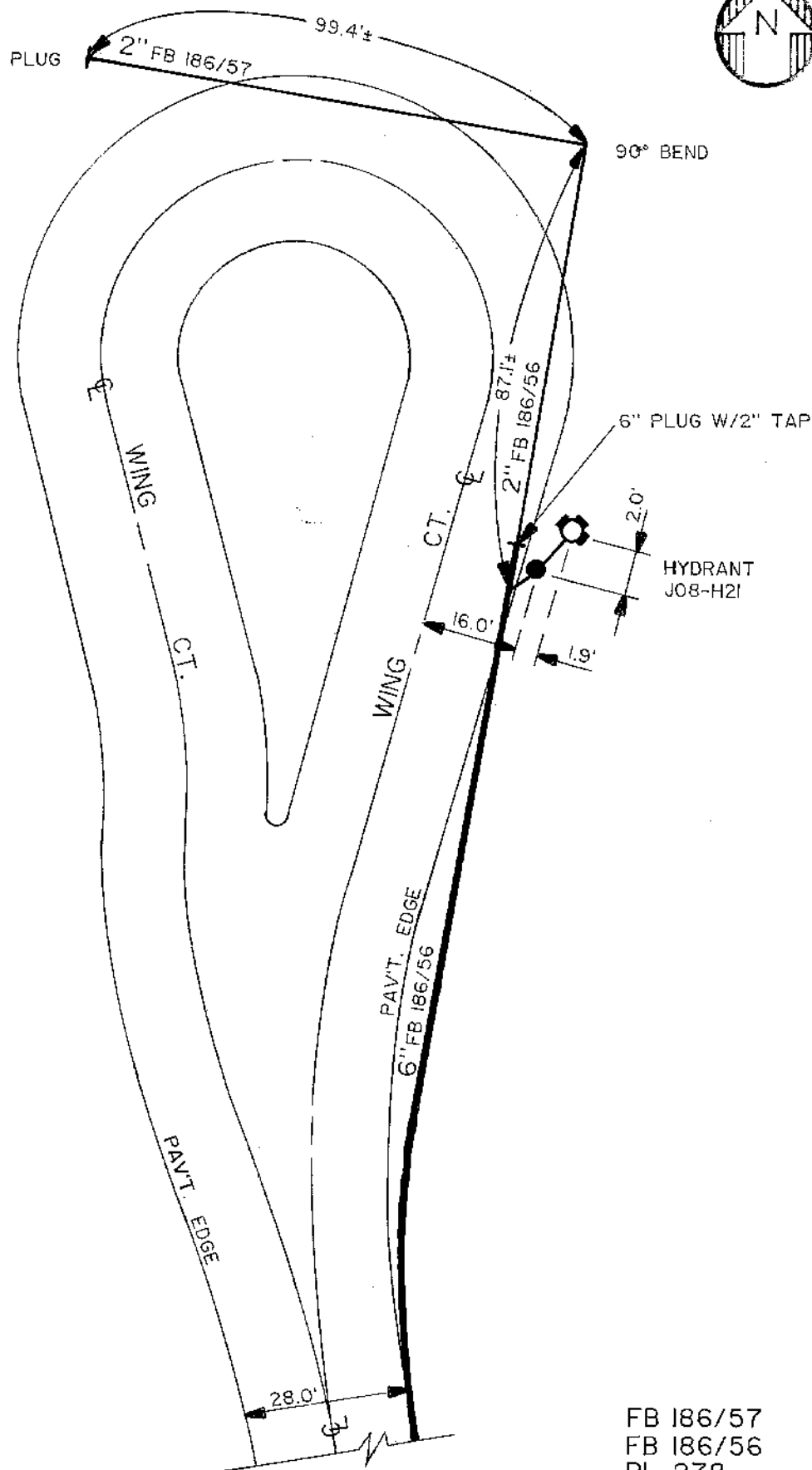


J08-D64 .
DETAIL SHEET NO.



FB 186/53

 ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	REVISED DR. BY: JMU	TOWN OF CHEEKTOWAGA E.C.W.A.	DETAIL SHEET NO.
	DATE: 8-4-89		JOB-H21
	SCALE: NONE		



NOTE: ± DIM'S: ARE FROM
INSPECTOR'S FIELD BOOK.
NOT FIELD CHECKED.

FB 186/57
FB 186/56
PL 278



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. T.A.S.
DATE: 2-5-92
N.T.S.

TOWN OF CHEEKTOWAGA
E.C.W.A.

J08-H21A

DETAIL SHEET NO.



MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. N.G.S.

DATE: 07-14-01

FIELD

REVISED
DR. N.G.S.

DATE: 07-14-01

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J09-D44B

DETAIL SHT. NO.

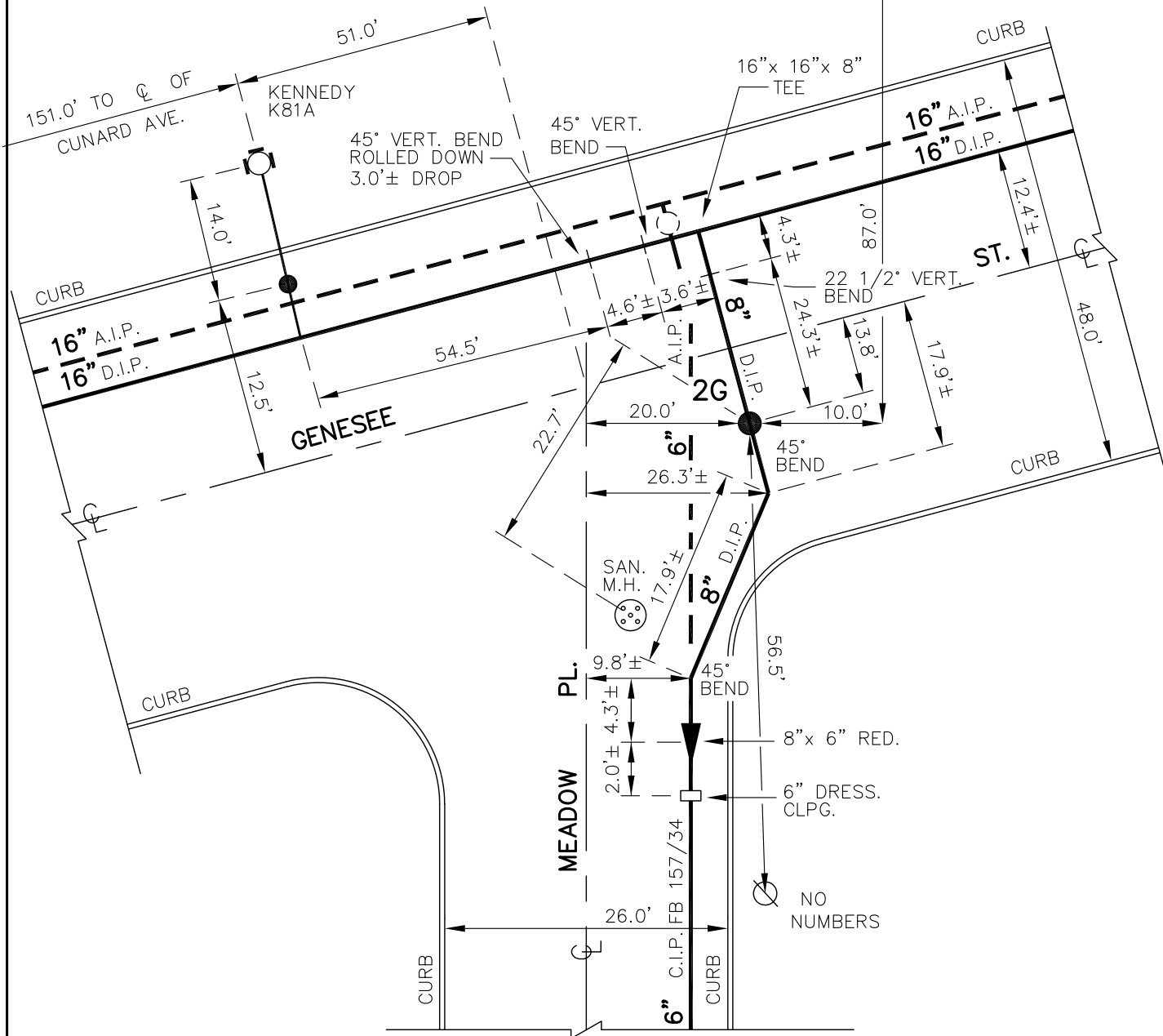
199400365

CURRENT PROJECT NO.



NOTE: VALVE 1G A.I.P. PER
HWNY-326-9401-PDT-145

HSE. #3352



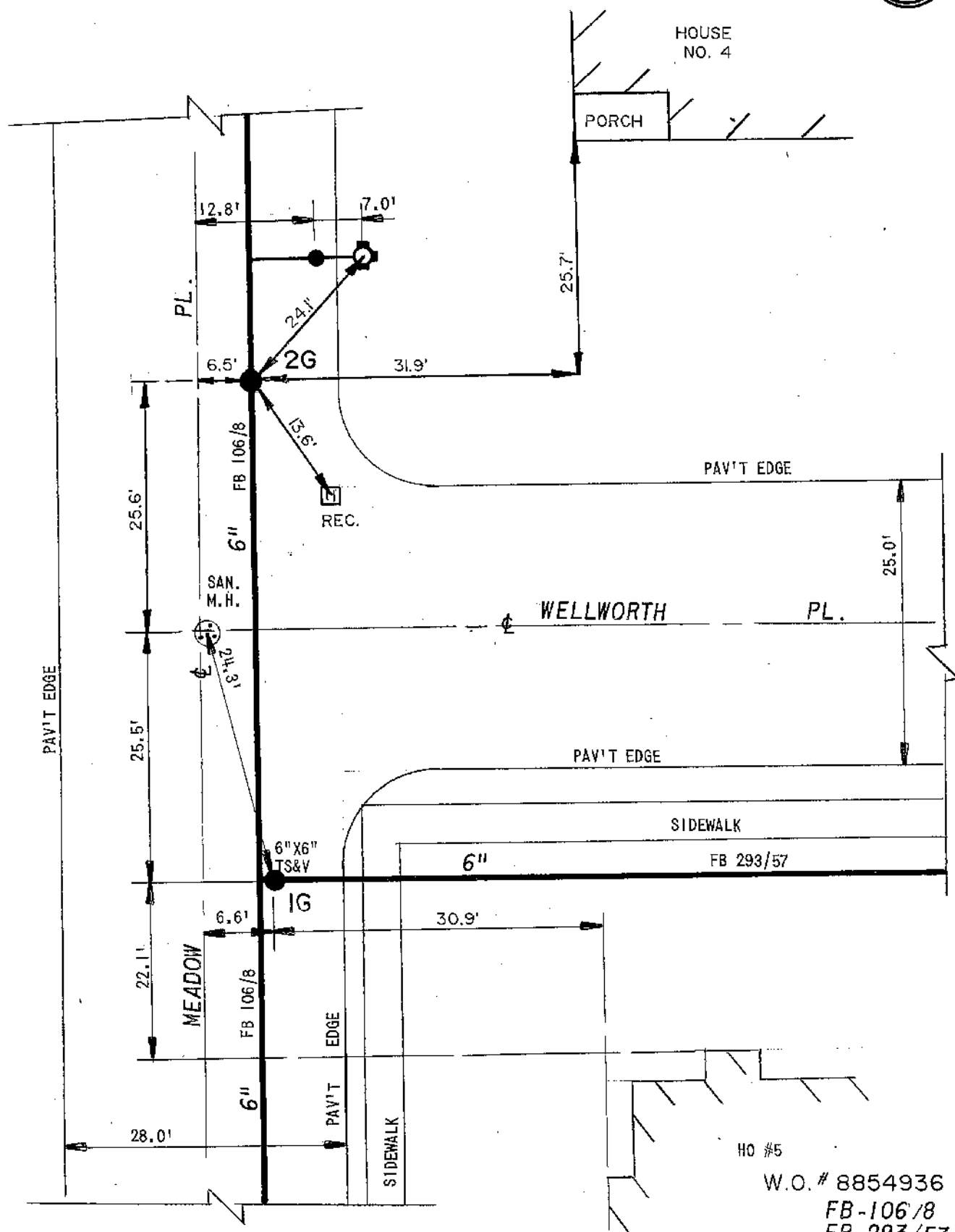
NOTE: ± DIMENSIONS ARE
FROM INSPECTOR'S
FIELD BOOK. NOT
FIELD CHECKED.
DETAIL DRAWN ON
CAD SYSTEM.

HWNY-326-9401-PDT-145
FB 106/8
CHTN-326-9101-P

J09-D44B

DETAIL SHT. NO.

MASTER COPY





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.D.C.

DATE: 12/1/2016

FIELD

REVISED
DR.

DATE:

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J09-D60

DETAIL SHT. NO.

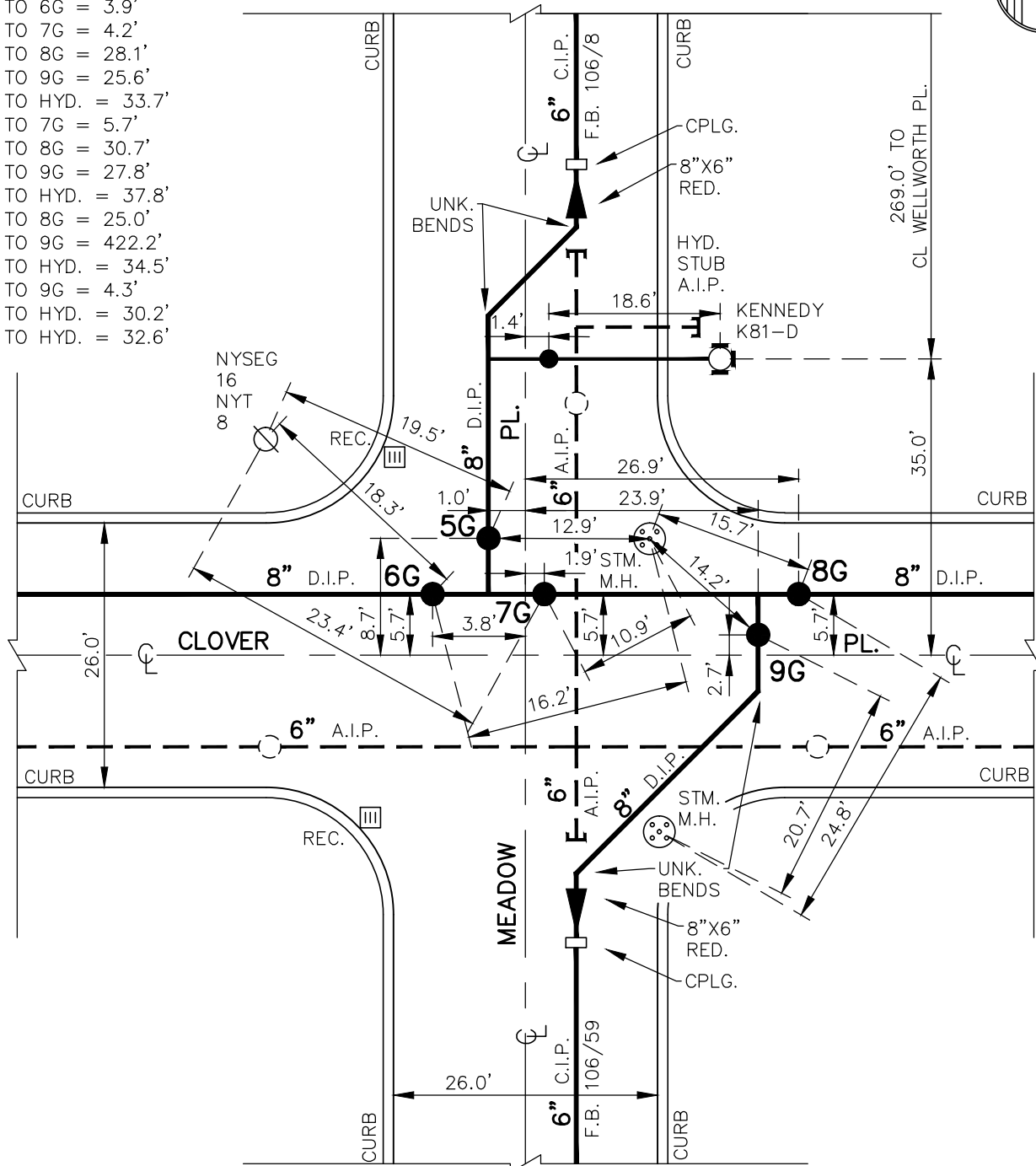
201600101

CURRENT PROJECT NO.

NOTE: 1G, 2G, 3G A.I.P., &
4G REMOVED UNDER
CHTN-172-1601.



5G TO 6G = 3.9'
5G TO 7G = 4.2'
5G TO 8G = 28.1'
5G TO 9G = 25.6'
5G TO HYD. = 33.7'
6G TO 7G = 5.7'
6G TO 8G = 30.7'
6G TO 9G = 27.8'
6G TO HYD. = 37.8'
7G TO 8G = 25.0'
7G TO 9G = 422.2'
7G TO HYD. = 34.5'
8G TO 9G = 4.3'
8G TO HYD. = 30.2'
9G TO HYD. = 32.6'



CHTN-172-1601
OCP-5337
F.B. 106/8,59
OCP-5282
F.B. 106/3,5

NOTE: DETAIL DRAWN ON CAD SYSTEM.
DRAWN FROM PROPOSED PLANS.

J09-D60

DETAIL SHT. NO.

MASTER COPY

EC WA	ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	REV. D.K.C. DR. DATE: 5.20.11 FIELD	DR. DATE: OFFICE	TOWN OF CHEEKTOWAGA E.C.W.A.	J09-H04 DETAIL SHT. NO. 201000218 CURRENT PROJECT NO.
	<p>NOTE: VALVE 1G REPLACED UNDER CHTN-163-1001 & VALVE 2G REPLACED UNDER CHTN-163-1002</p>				

(2) HYMAX COUPLINGS W/
3.0' OF 6" P.V.C

(2) HYMAX COUPLINGS W/
3.0' OF 6" P.V.C.

CHTN-163-1002
 CHTN-163-1001
 HYDR-163-8801-PA
 F.B. 106/11

J09-H04
 DETAIL SHT. NO.



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED DR. R.D.C.

DATE: 6/27/2018

FIELD

REVISED DR.

DATE:

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J09-H04A

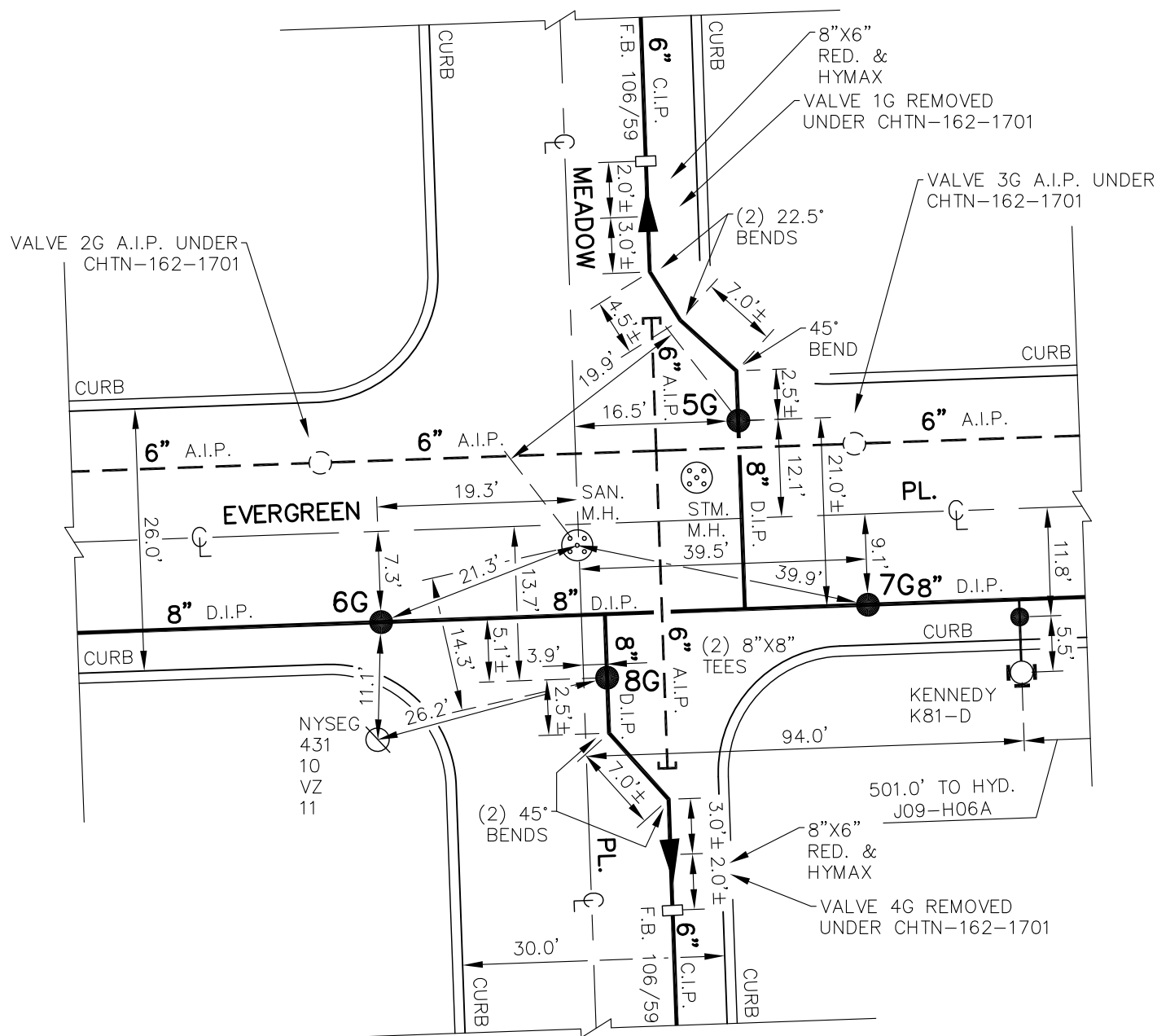
DETAIL SHT. NO.

201700073

CURRENT PROJECT NO.

NOTE: VALVES 1G & 4G REMOVED UNDER
 CHTN-162-1701.
 VALVES 2G & 3G A.I.P. UNDER
 CHTN-162-1701.

5G TO 6G = 40.8'
 5G TO 7G = 31.0'
 5G TO 8G = 28.9'
 5G TO HYD. = 83.2'
 6G TO 7G = 58.8'
 6G TO 8G = 24.0'
 7G TO 8G = 35.9'
 7G TO HYD. = 55.6'
 8G TO HYD. = 90.7'



NOTE: DETAIL DRAWN ON CAD SYSTEM.
 ± DIMENSIONS FROM AS-BUILTS,
 NOT FIELD CHECKED.

CHTN-162-1701

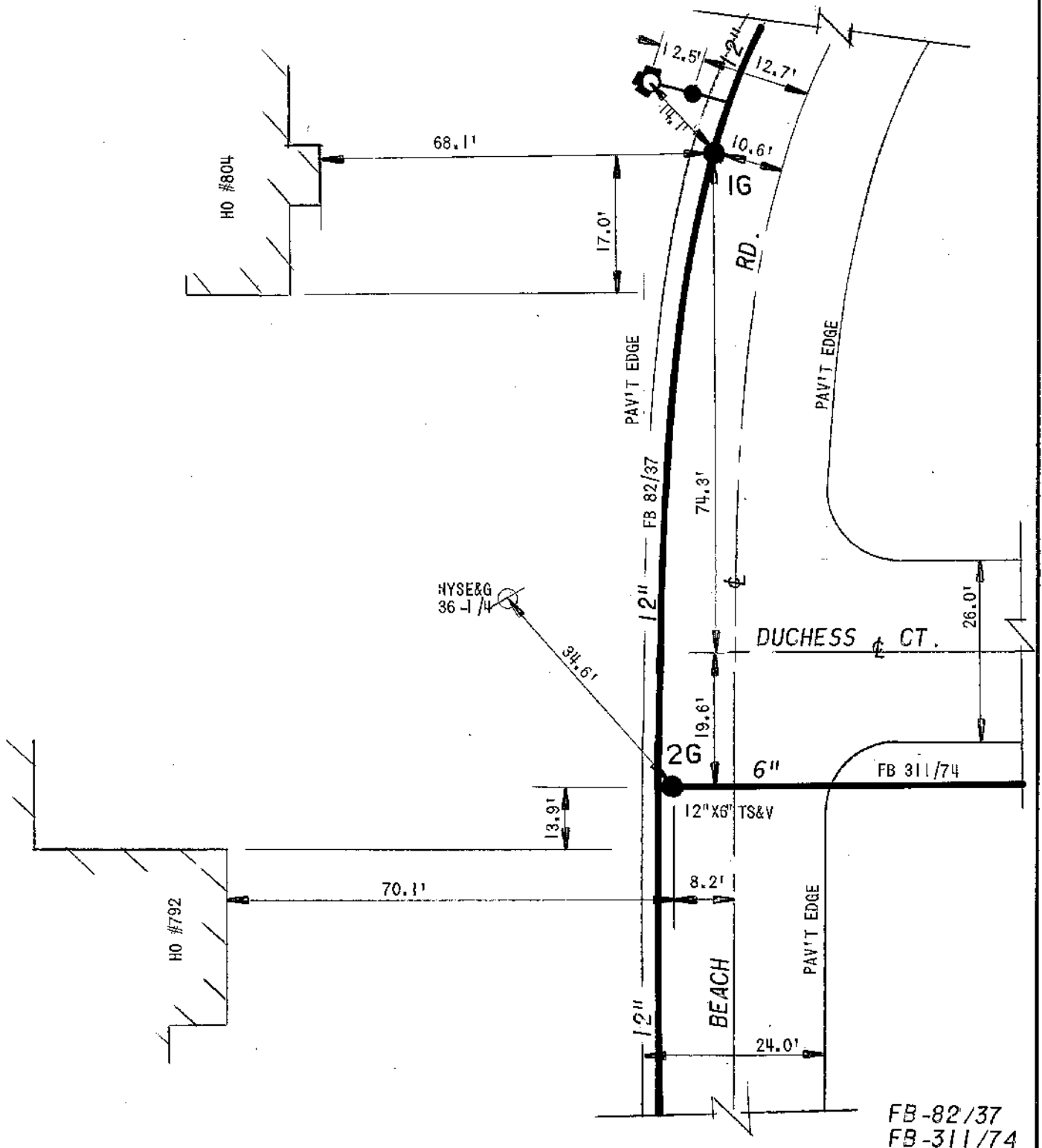
F.B. 106/58,59

PL. 181

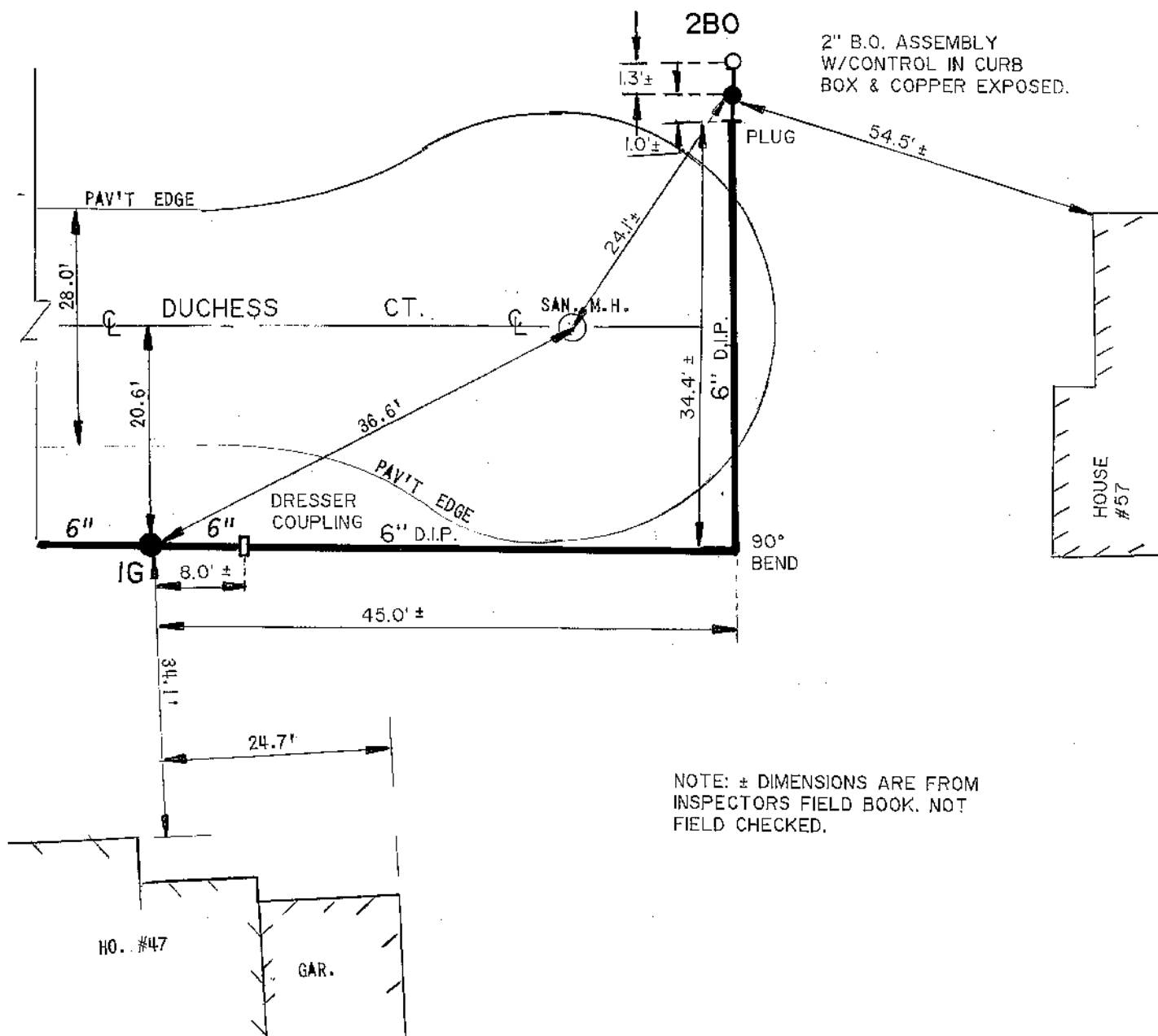
J09-H04A

DETAIL SHT. NO.

MASTER COPY



FB-82/37
FB-311/74



NOTE: ± DIMENSIONS ARE FROM
INSPECTOR'S FIELD BOOK. NOT
FIELD CHECKED.

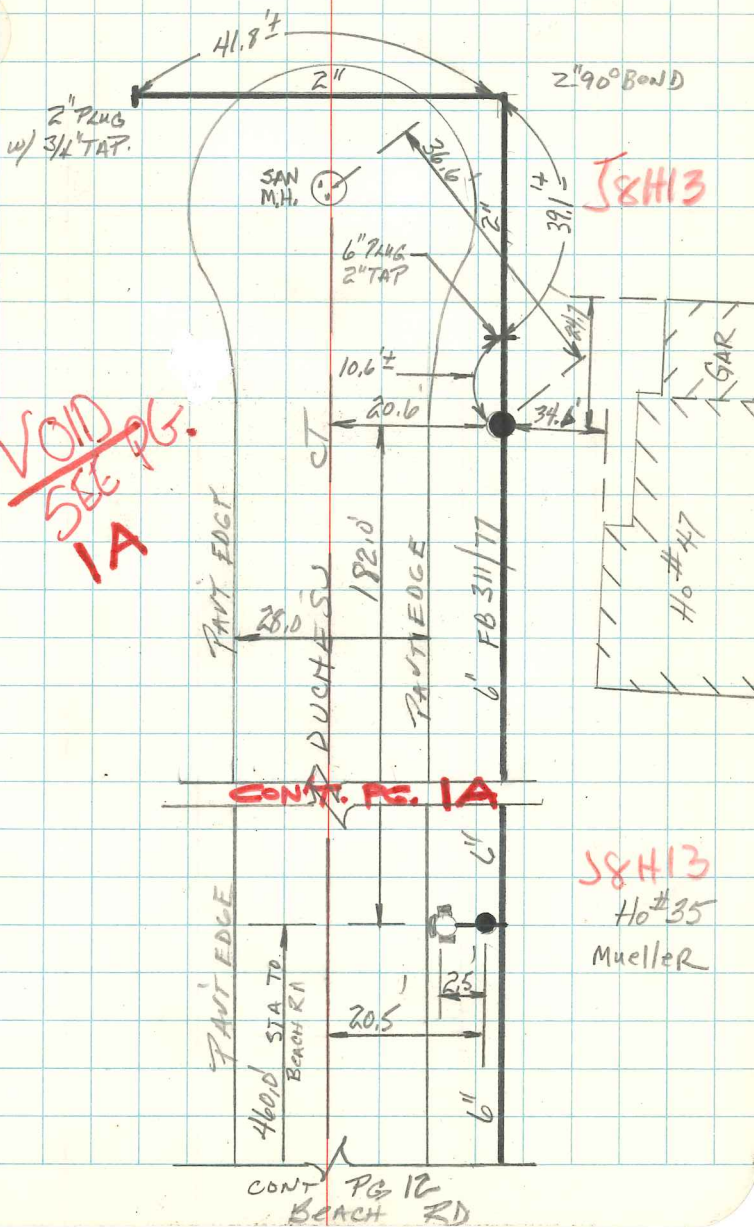
CHTN-236-9101-P
FB 456/38
FB 311/77

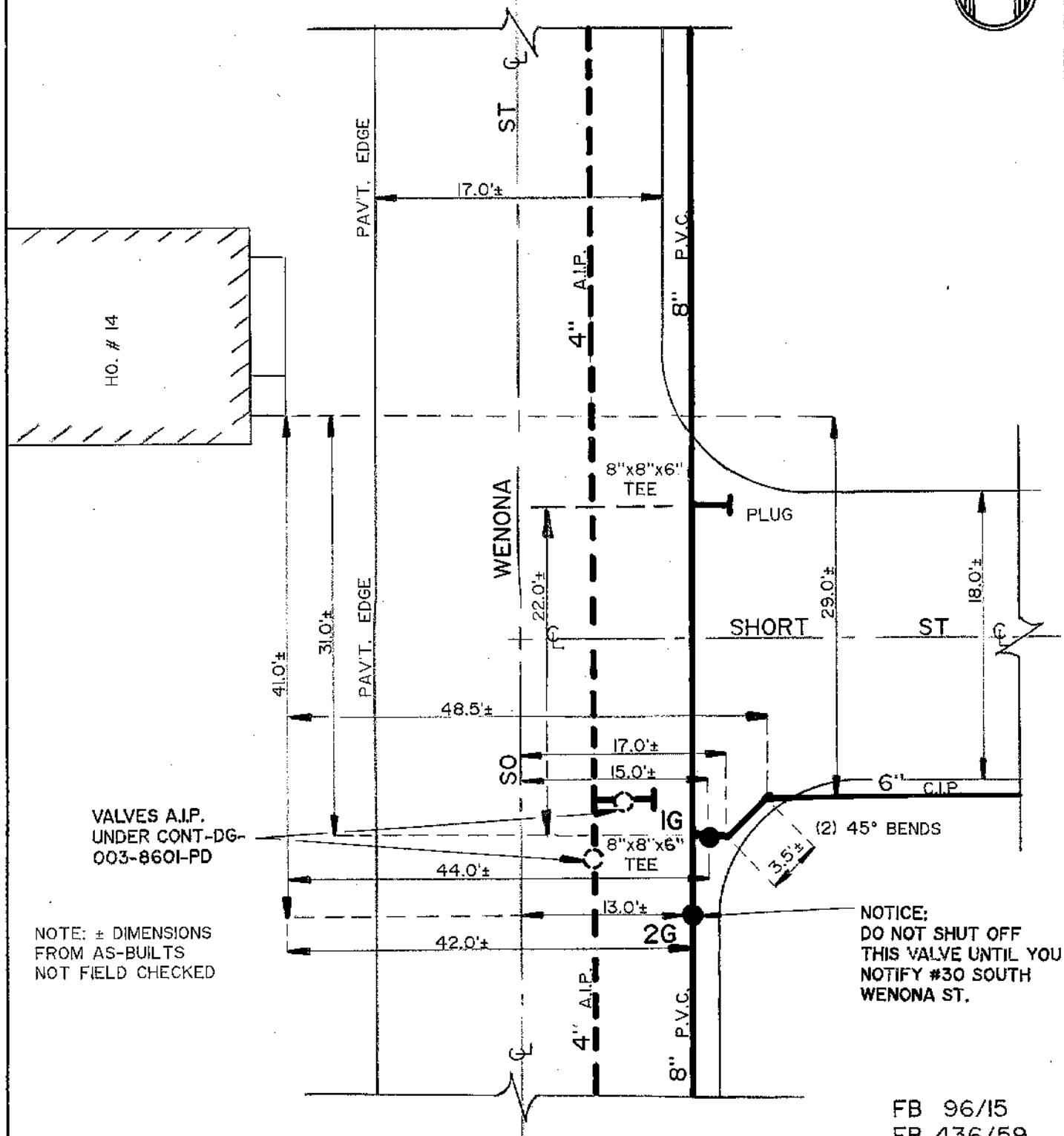
FB 311/77

PG 1
PL JB
278

DUCHESS CT
TN of CHECK
ECWA

JM-JW 10-17-78





VALVES A.I.P.
UNDER CONT-DG-
003-8601-PD

NOTE: ± DIMENSIONS
FROM AS-BUILTS
NOT FIELD CHECKED

NOTICE:
DO NOT SHUT OFF
THIS VALVE UNTIL YOU
NOTIFY #30 SOUTH
WENONA ST.

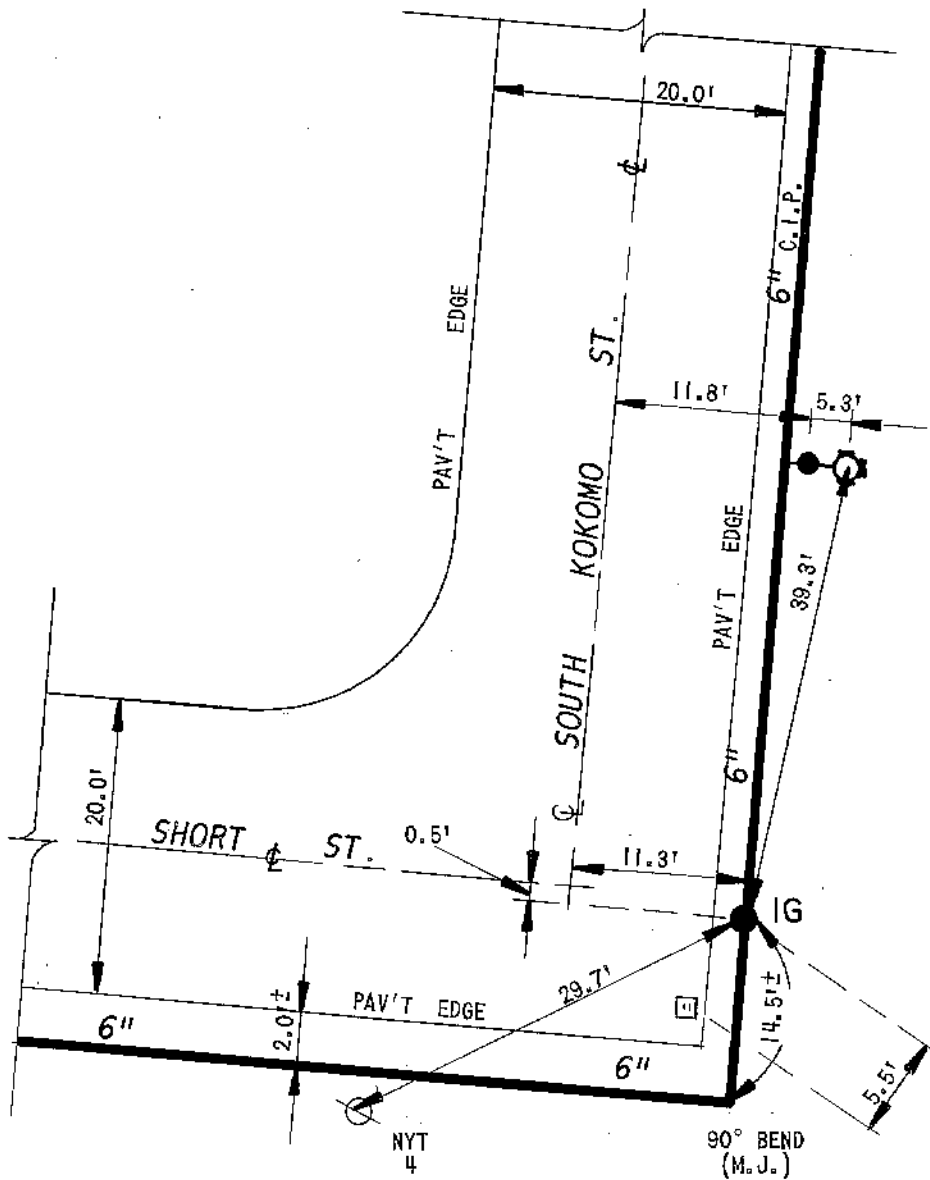
FB 96/15
FB 436/59
DPVL-810-7401-PD
CONT-DG-003-8601-PD

EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. BY: FDB
DATE: 5-5-92
NOT TO SCALE

TN OF LANC/DEPEW
E. C. W. A.

L10-F07
DETAIL SHEET NO.



F. B. 206/57
F. B. 436/60
DPVL-810-740I-PD



NOTE: FB.34 SHOWS MAIN ON
MUSKINGUM TO BE 6" W.
RICHARDSON REPAIRED
MAIN ON 11/72 - FOUND
VALVE & MAIN TO BE 4".

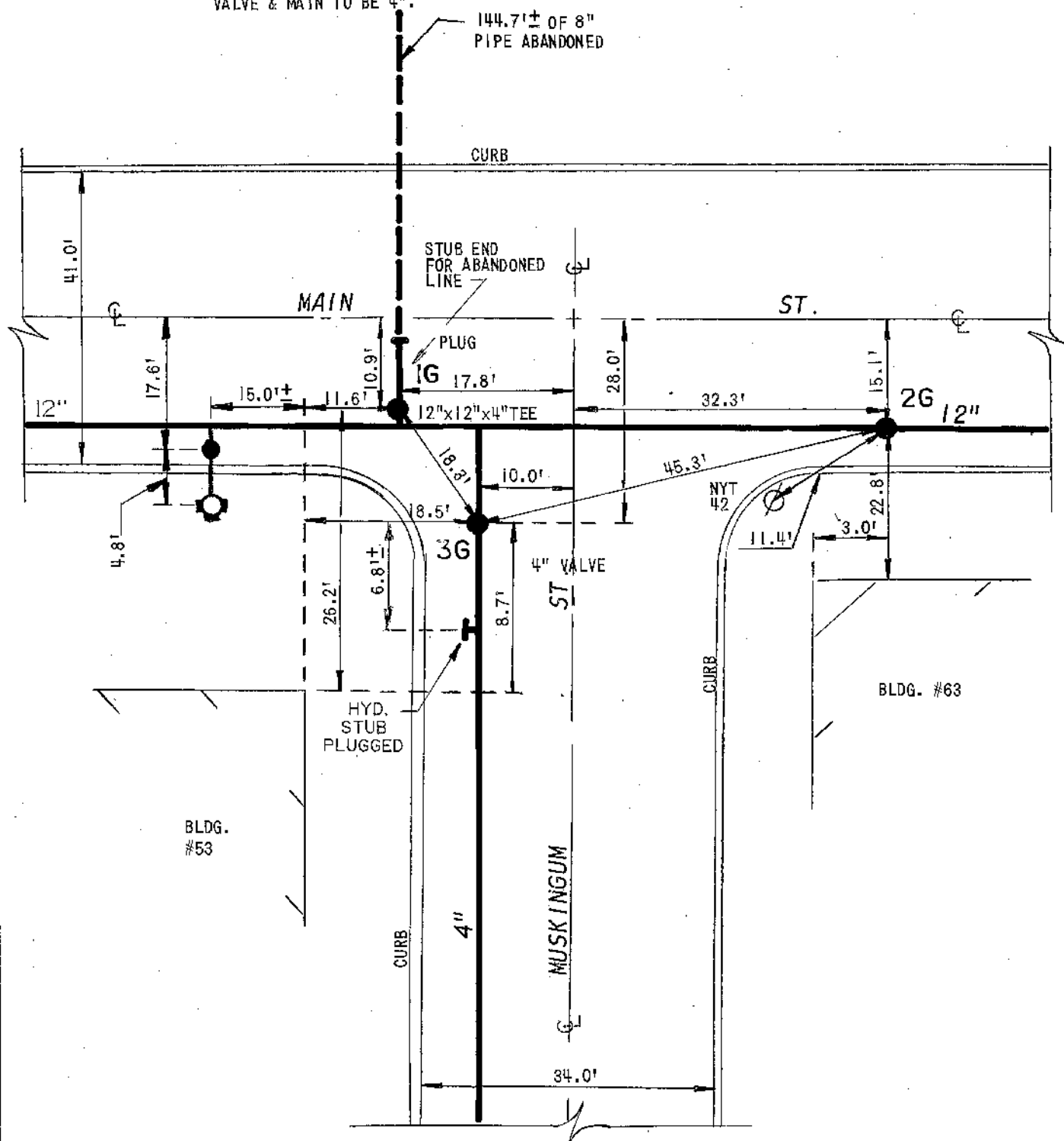
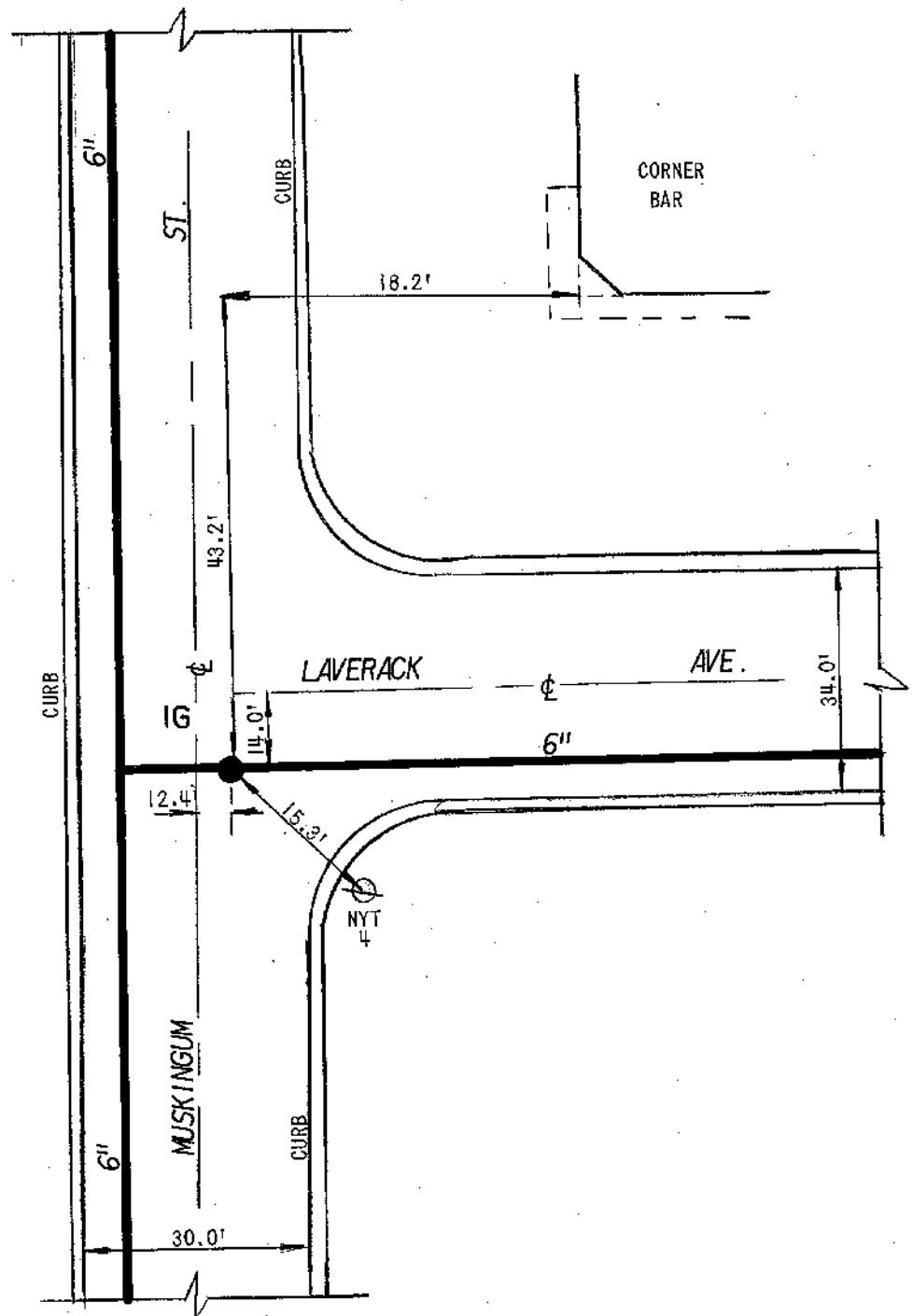
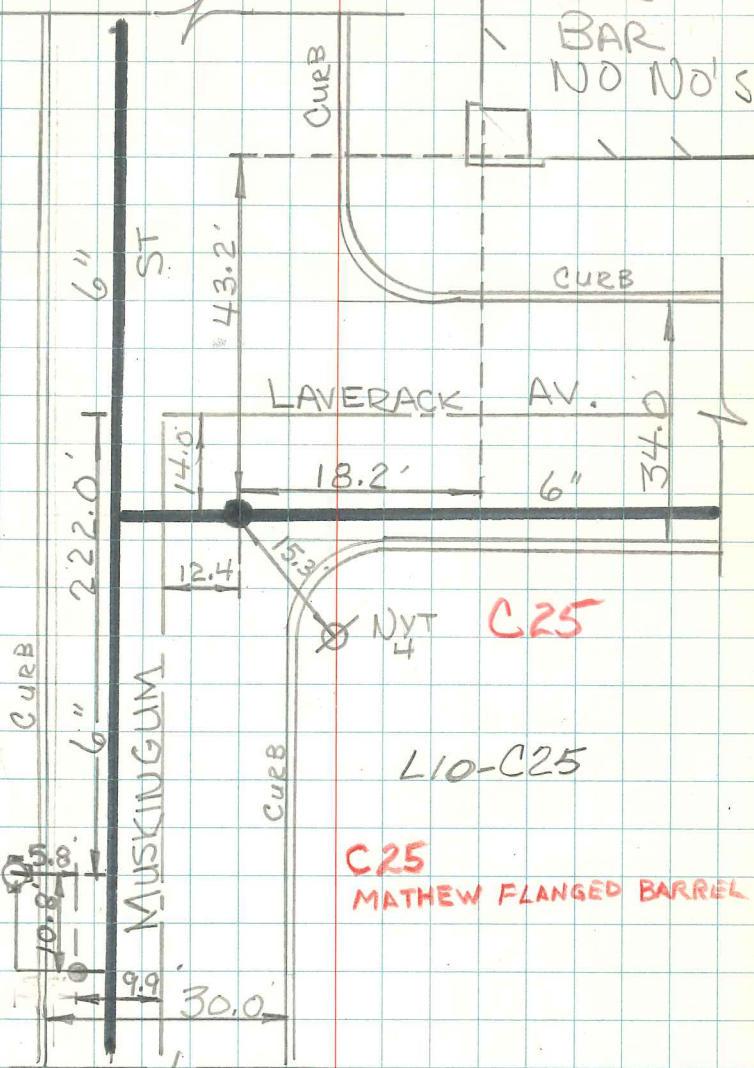


PLATE #152
FB.34/15,28
DETAIL SHEET NO.



R.L.C
R.L.B

COR
BAR
NO NO'S



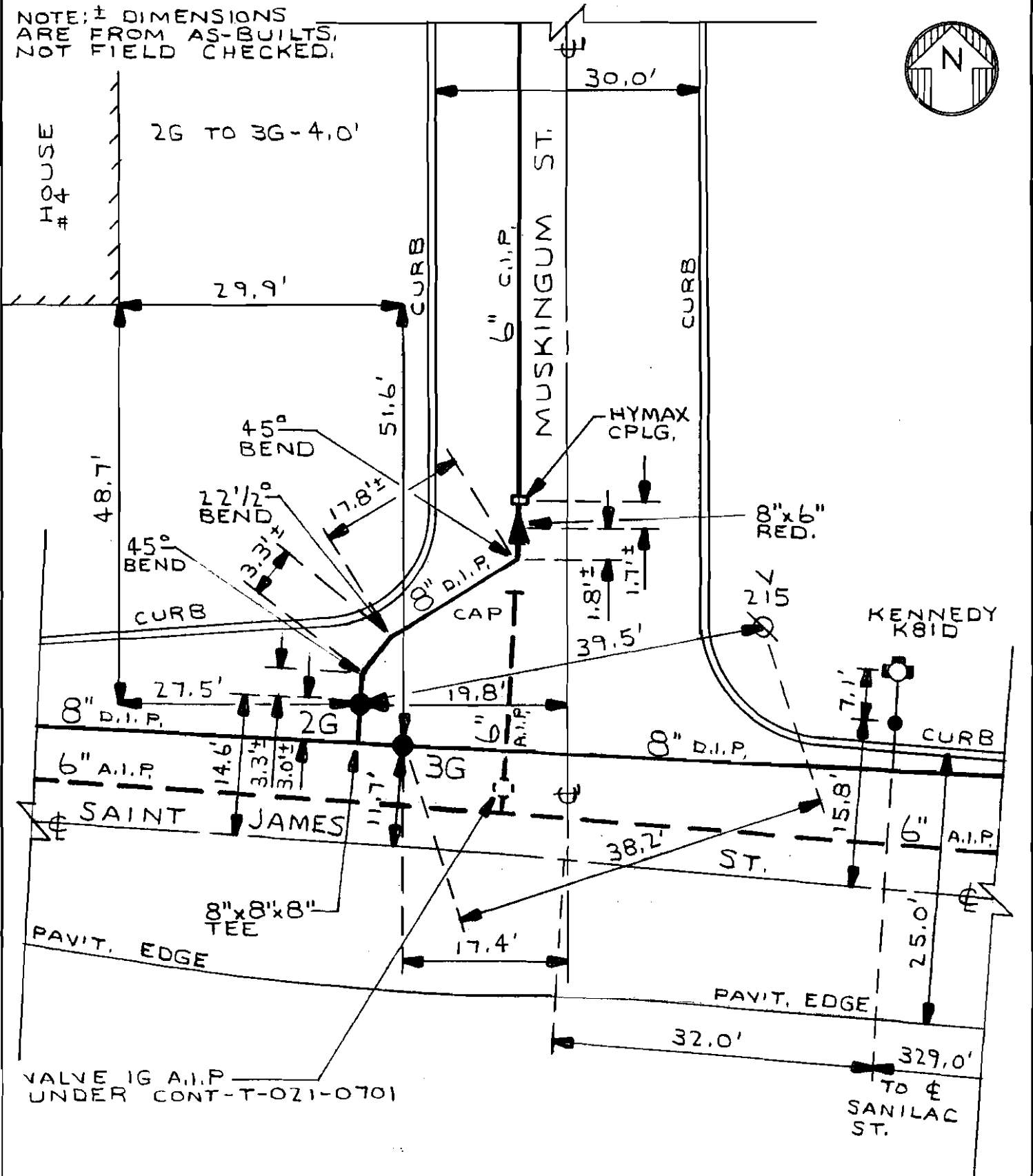
L10-C25

C25
MATHEW FLANGED BARREL

CONT. PG. 1

EC WA	ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	REV. DR. D.K.C. DR.	TN. OF LANC. / DEPEW	L10-C34	
		DATE: 9.10.09	DATE:	E.C.W.A.	DETAIL SHT. NO.
		FIELD	OFFICE	200700319	CURRENT PROJECT NO.

NOTE: ± DIMENSIONS
ARE FROM AS-BUILTS,
NOT FIELD CHECKED.



CONT-T-021-0701
F.B. 34/31

L10-C34
DETAIL SHT. NO.

MASTER COPY

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. A.R.M.

DR.

DATE: 6/15/09

DATE:

FIELD

OFFICE

TOWN OF LANC/DEPEW

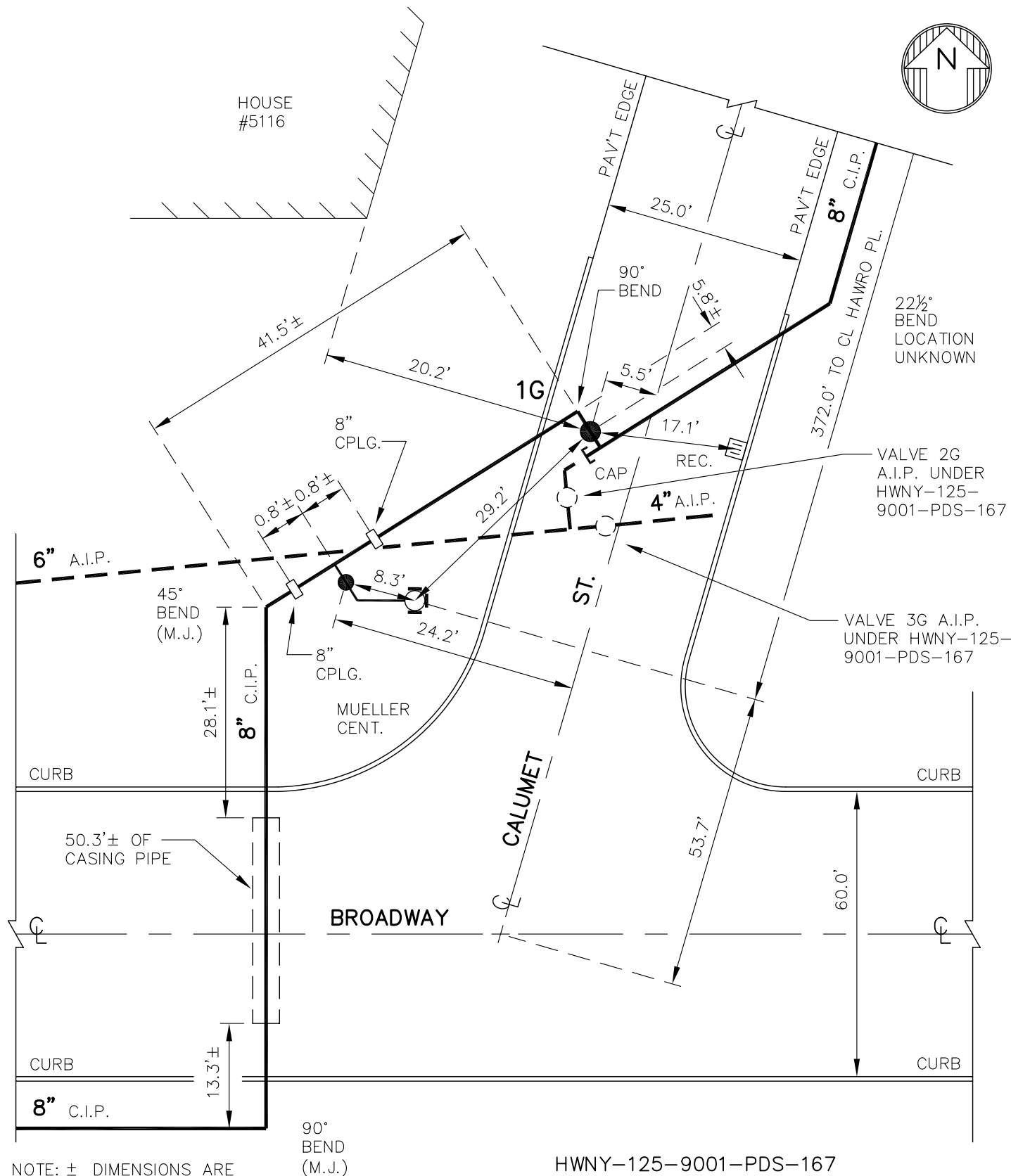
E.C.W.A.

L10-C58

DETAIL SHT. NO.

199000160

CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE FROM "AS-BUILTS" NOT FIELD CHECKED
DETAIL DRAWN ON CAD SYSTEM.

HWNY-125-9001-PDS-167
IR'S 234
F.B. 436/7
F.B. 398/1
F.B. 33/39

L10-C58

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. A.R.M.

DR. R.D.C.

DATE: 09/21/2009

DATE: 12/16/2015

FIELD

OFFICE

VILLAGE OF DEPEW

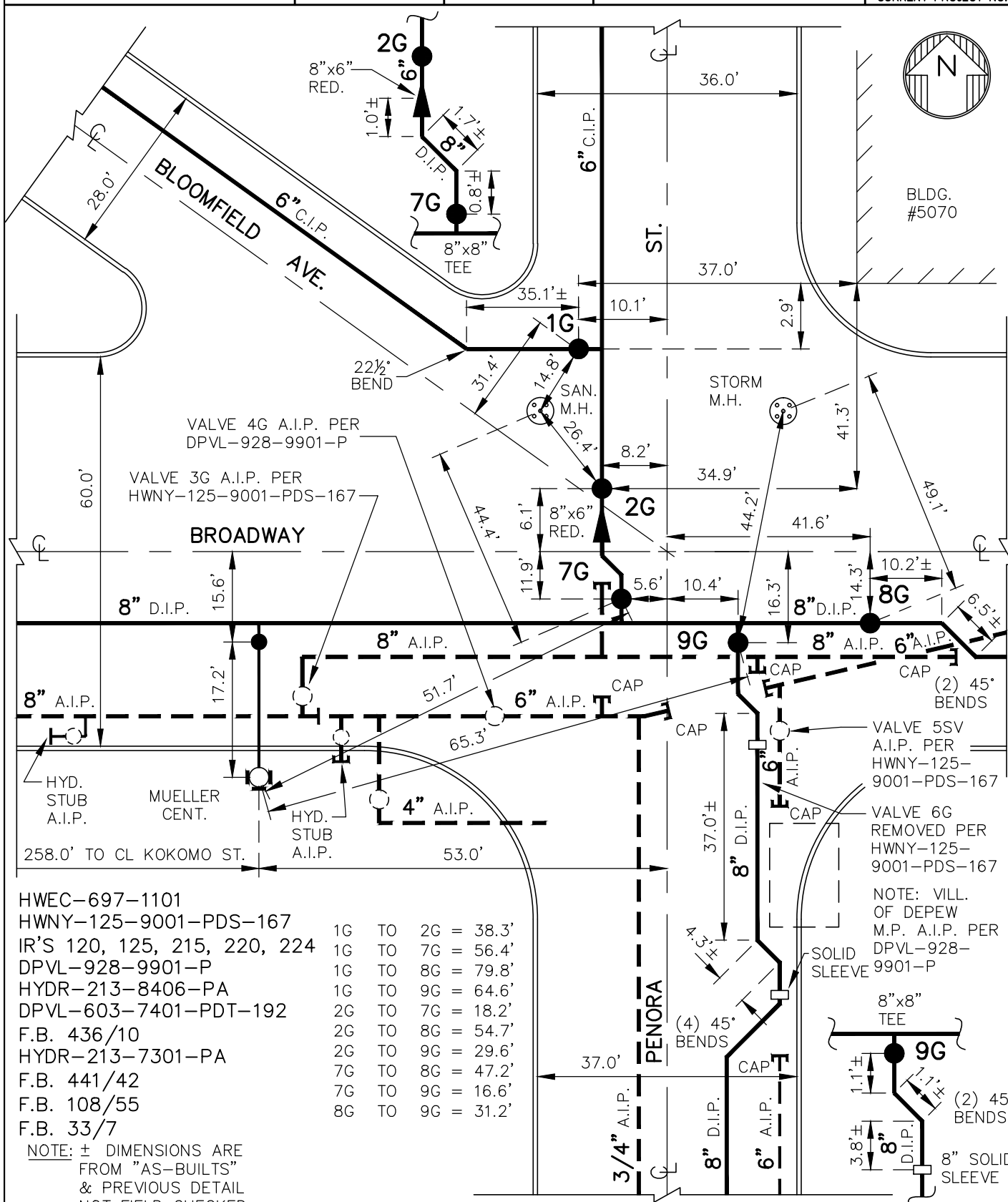
E.C.W.A.

L10-C57

DETAIL SHT. NO.

201100146

CURRENT PROJECT NO.



HWEC-697-1101
HWNY-125-9001-PDS-167
IR'S 120, 125, 215, 220, 224
DPVL-928-9901-P
HYDR-213-8406-PA
DPVL-603-7401-PDT-192
F.B. 436/10
HYDR-213-7301-PA
F.B. 441/42
F.B. 108/55
F.B. 33/7

1G	TO	2G	=	38.3'
1G	TO	7G	=	56.4'
1G	TO	8G	=	79.8'
1G	TO	9G	=	64.6'
2G	TO	7G	=	18.2'
2G	TO	8G	=	54.7'
2G	TO	9G	=	29.6'
7G	TO	8G	=	47.2'
7G	TO	9G	=	16.6'
8G	TO	9G	=	31.2'

NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
& PREVIOUS DETAIL
NOT FIELD CHECKED.
DETAIL DRAWN ON
CAD SYSTEM.

L10-C57

DETAIL SHT. NO.

MASTER COPY



MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK



REVISED
DR. A.R.M.

DR.

DATE: 6/15/09

DATE:

FIELD

OFFICE

TOWN OF LANC/DEPEW

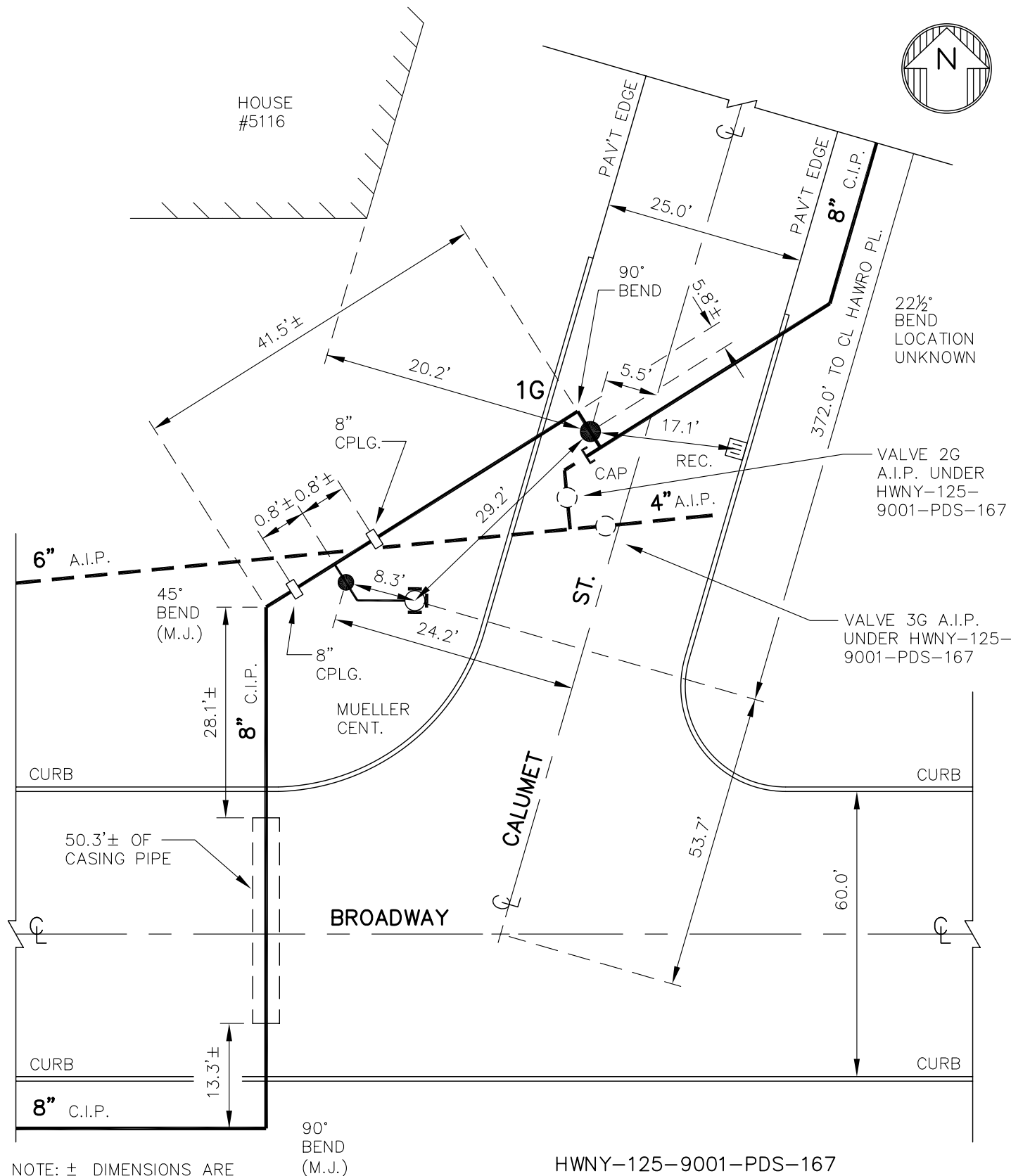
E.C.W.A.

L10-C58

DETAIL SHT. NO.

199000160

CURRENT PROJECT NO.



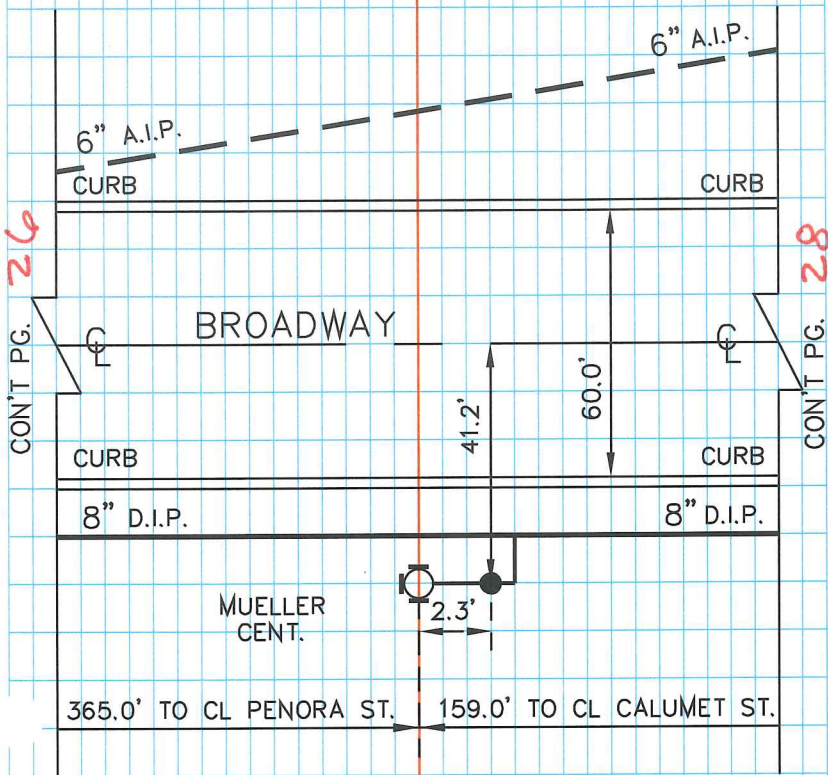
NOTE: ± DIMENSIONS ARE FROM "AS-BUILTS" NOT FIELD CHECKED
DETAIL DRAWN ON CAD SYSTEM.

HWNY-125-9001-PDS-167
IR'S 234
F.B. 436/7
F.B. 398/1
F.B. 33/39

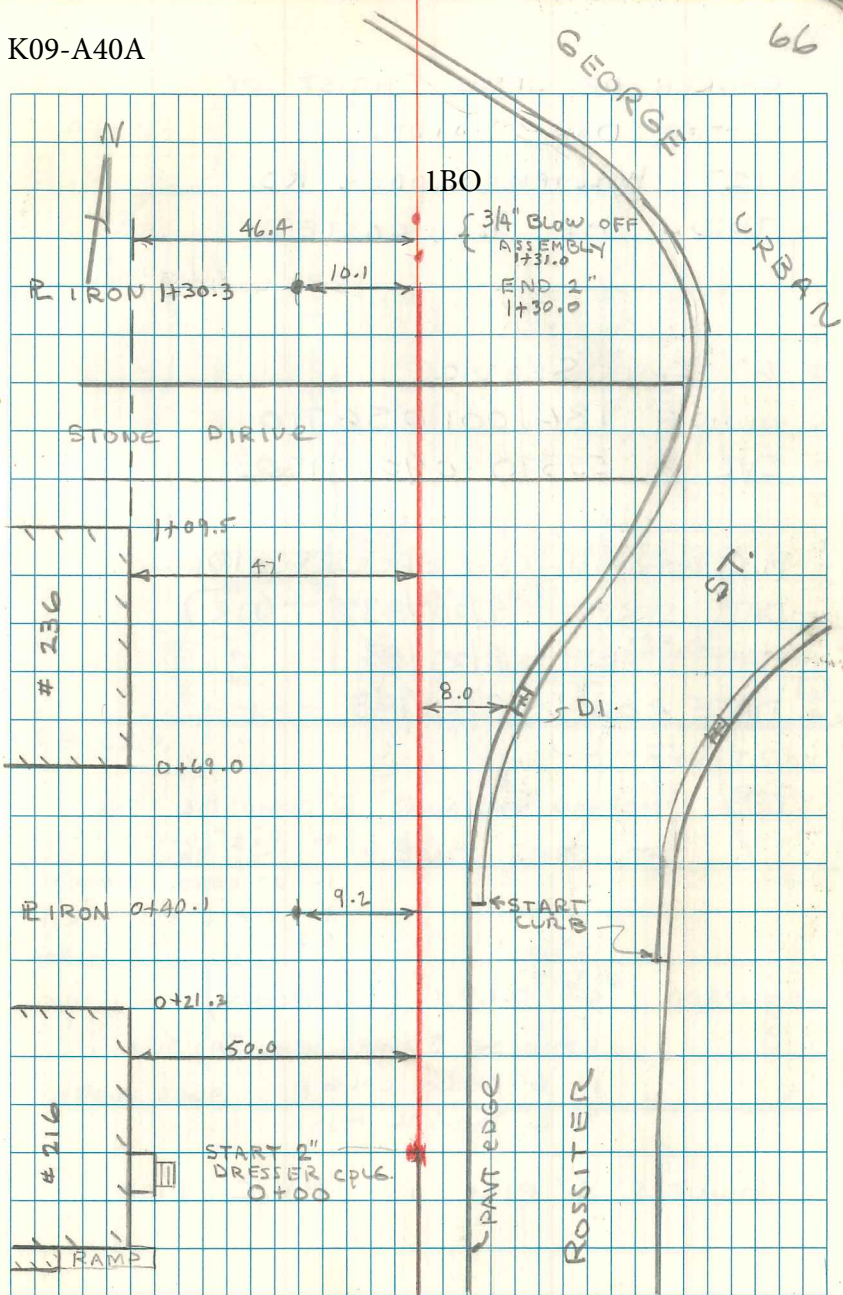
L10-C58

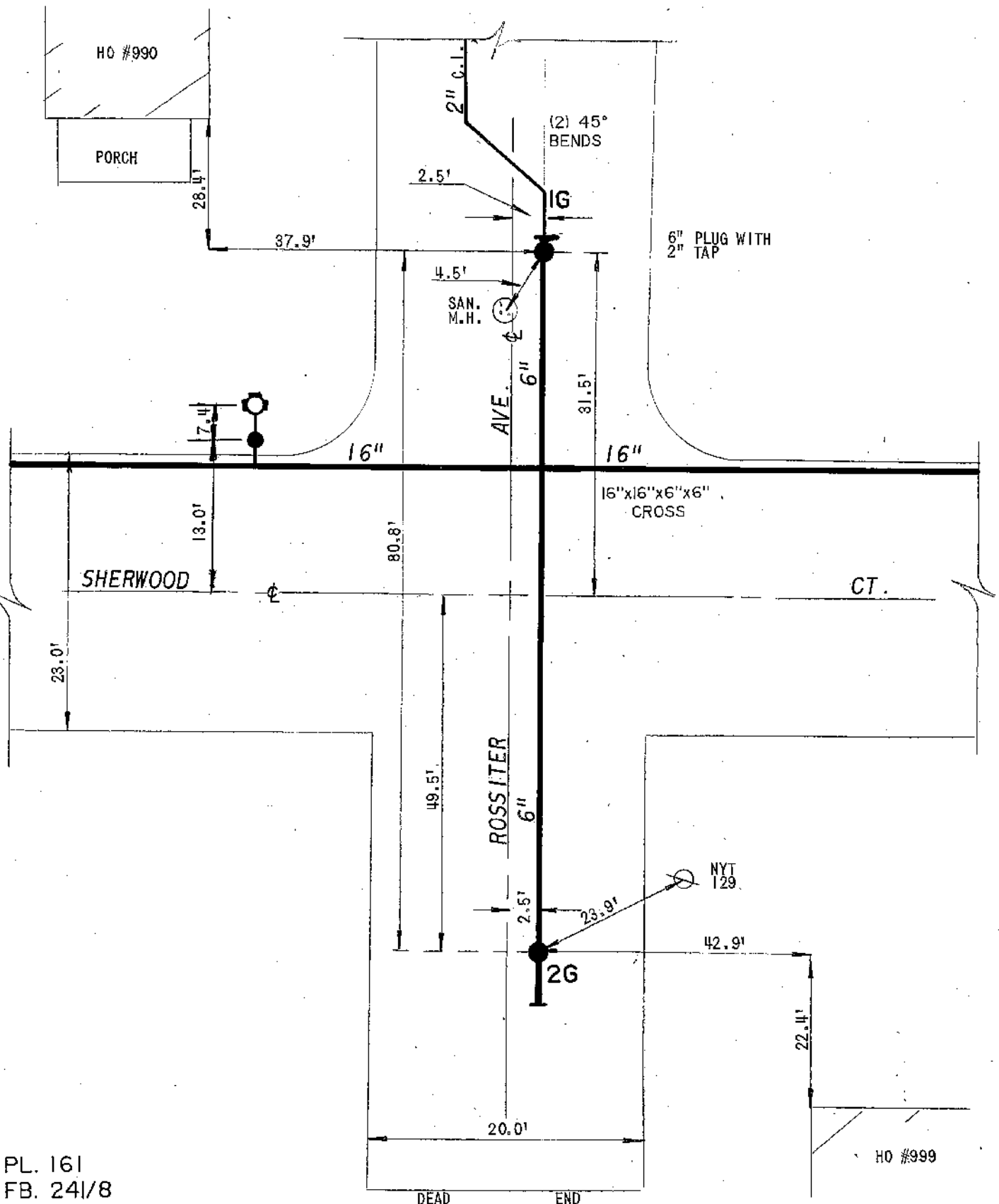
DETAIL SHT. NO.

MASTER COPY



BLDG #5091





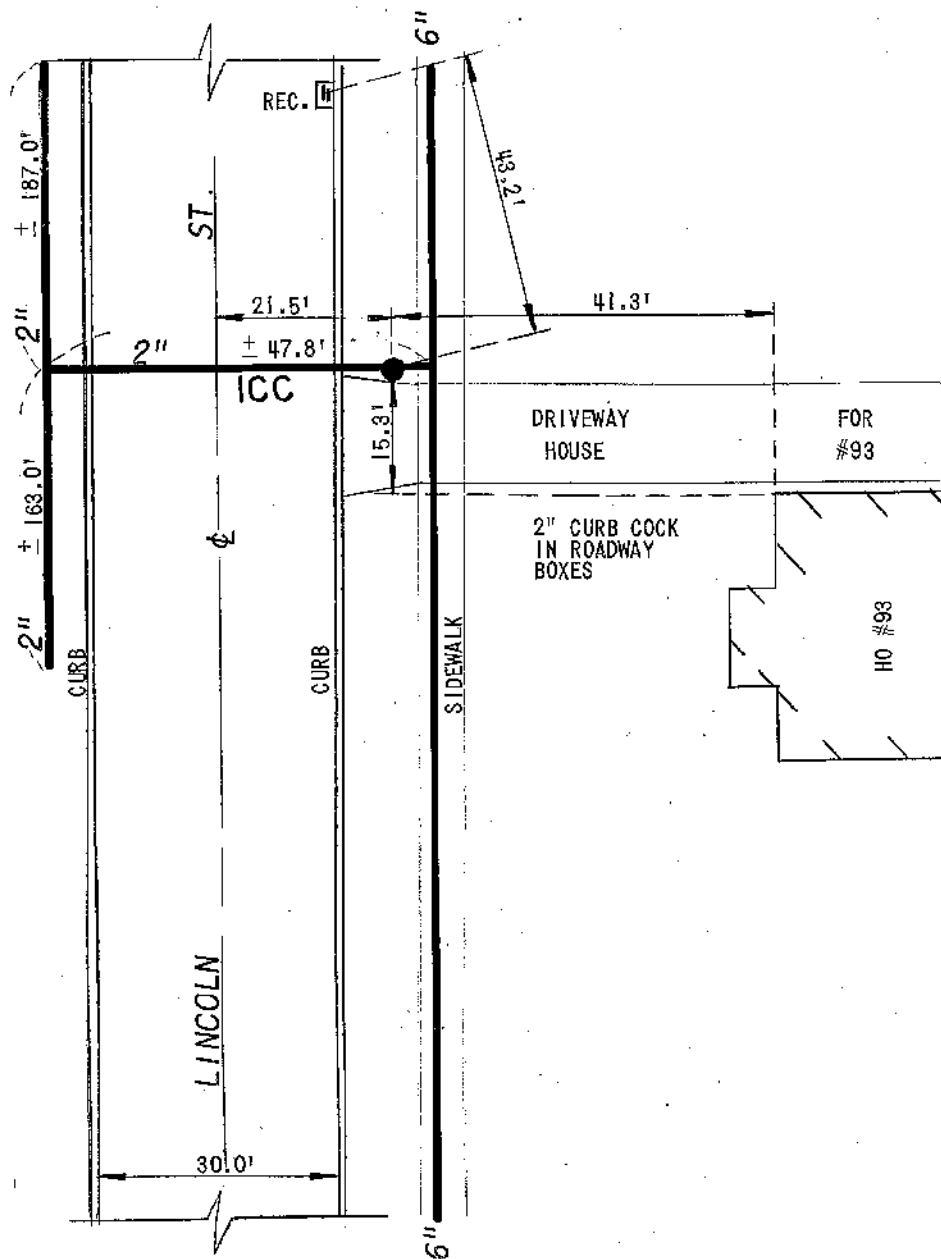
PL. 161
FB. 24/1/8

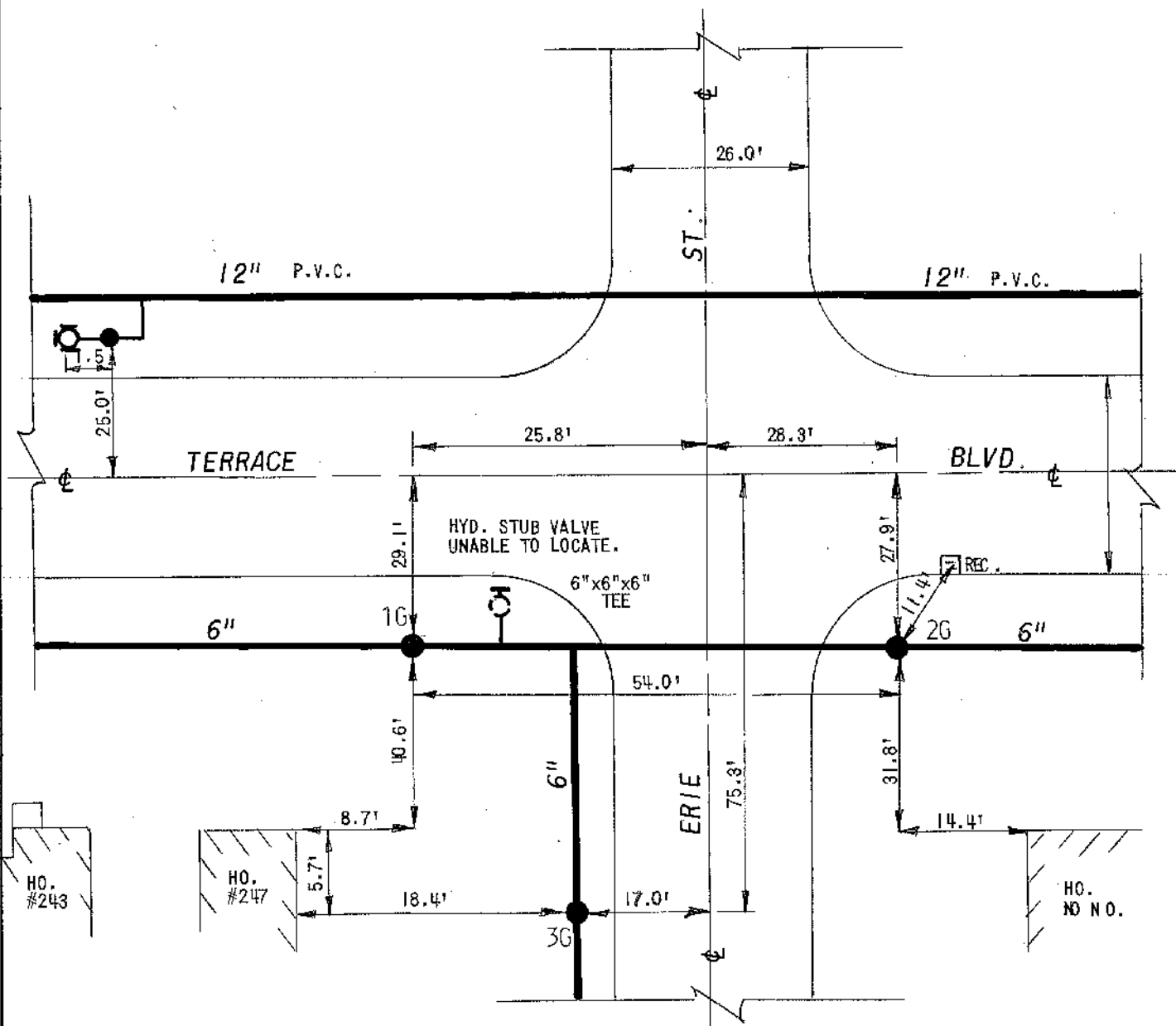
EC **ERIE COUNTY**
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

REVISED
DR. BY: R.A.K.
DATE: 6/19/89
SCALE: NONE

TN OF CHEEK/DEPEW
E. C. W. A.

DETAIL SHEET NO.
K09-H48





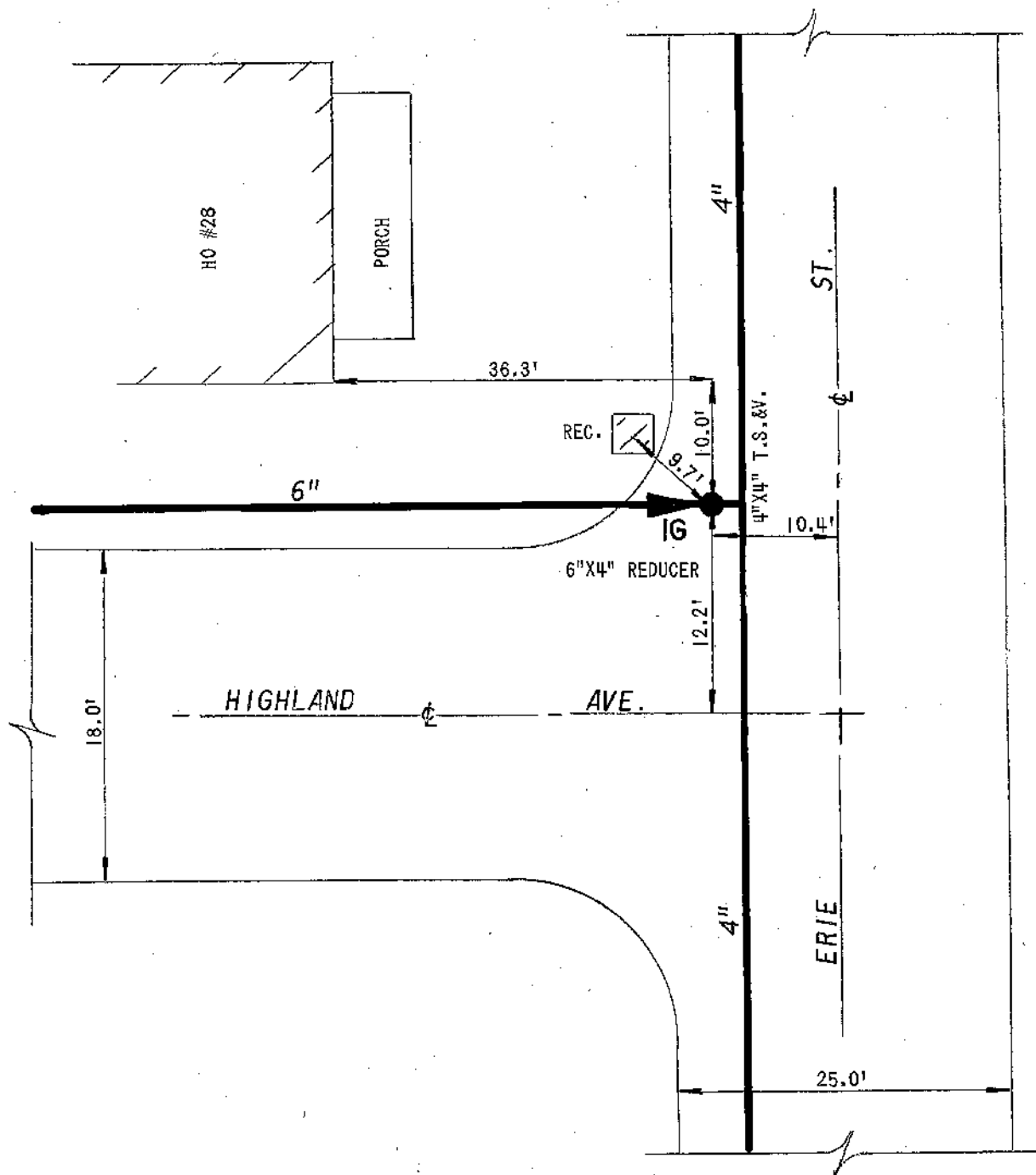
FB.243/3
FB.431/3
CONT.002R-8501-PD

EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

REVISED DR. BY: R.A.K.
DATE: 6/21/89
NOT TO SCALE

TN OF CHEEK/DEPEW
E.C.W.A.

L10-A44A
DETAIL SHEET NO.



FB. 431/5

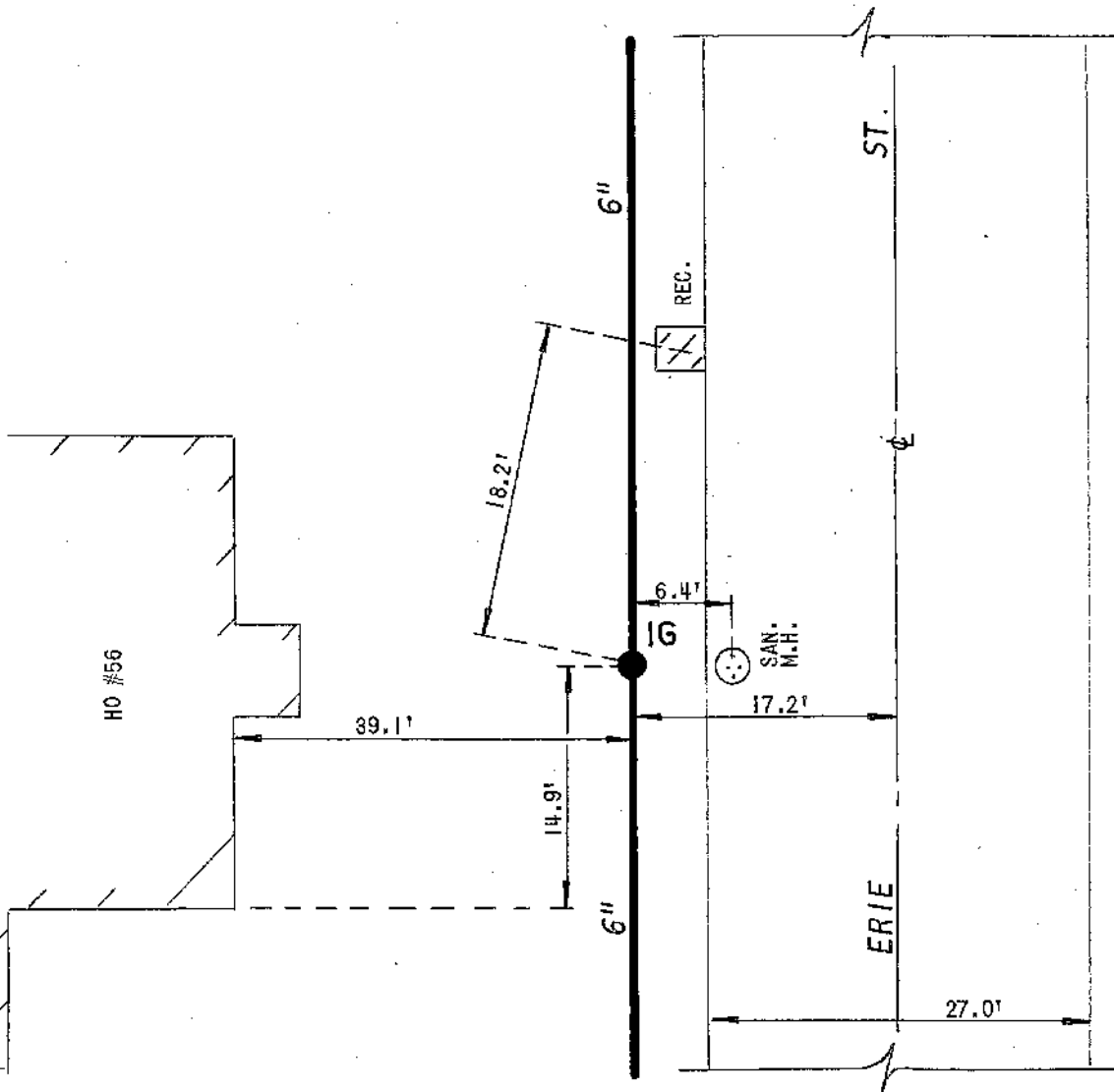
EC **ERIE COUNTY**
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

REVISED
DR. BY: J.M.U.
DATE: 6/22/89
SCALE: NONE

TN OF CHEEK/DEPEW
E. C. W. A.

DETAIL SHEET NO.

L10-A52A





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. M.J.M.

DATE: 10/26/07

FIELD

REVISED
DR. M.J.M.

DATE: 11/8/07

OFFICE

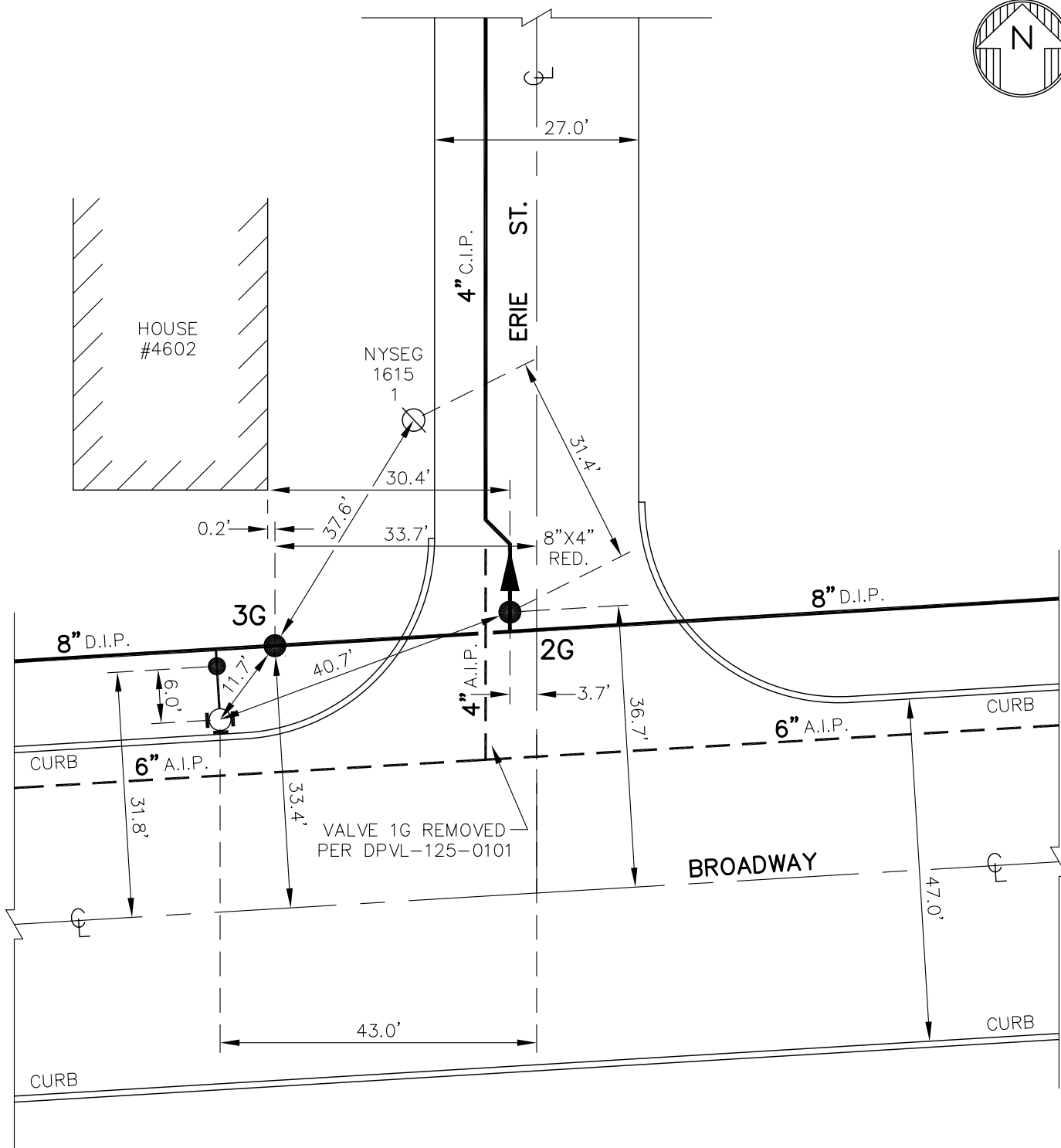
TOWN OF CHEEKTOWAGA /
VILLAGE OF DEPEW
E.C.W.A.

L10-A60

DETAIL SHT. NO.

199500386

CURRENT PROJECT NO.



NOTE: DETAIL DRAWN ON
CAD SYSTEM.

HWNY-125-9502-PDS-217
DPVL-125-0101

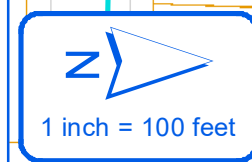
F.B. 115/52

F.B. 33/25

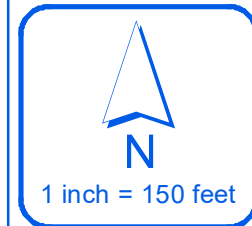
L10-A60

DETAIL SHT. NO.

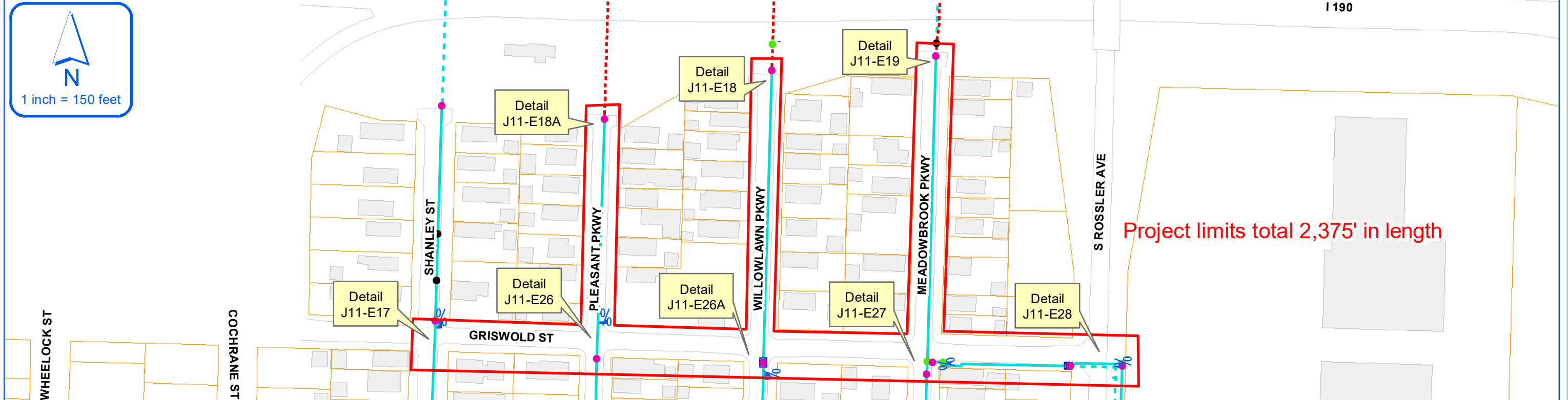
MASTER COPY



Project limits total 1450' in length



Project limits total 2,375' in length



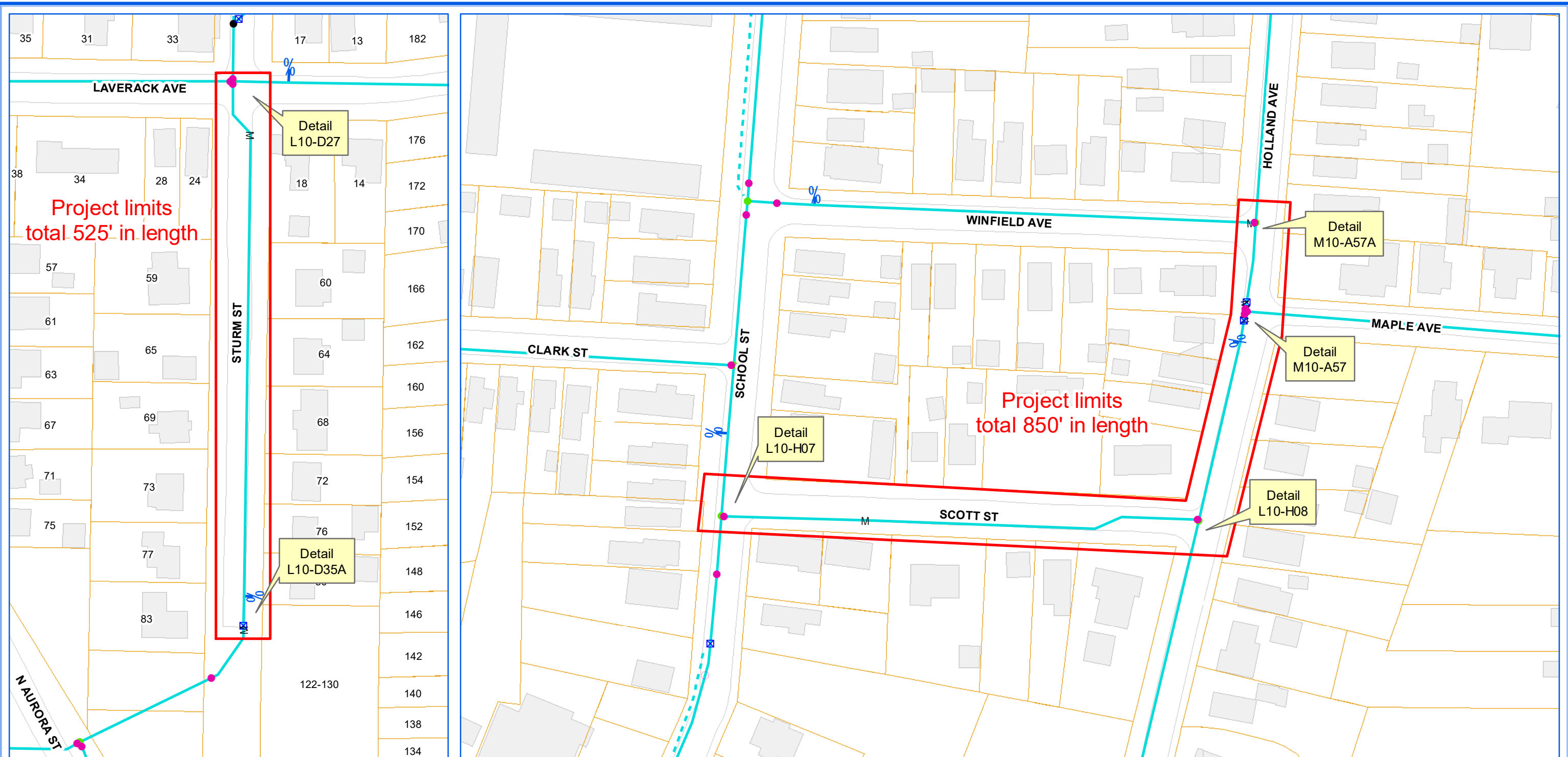
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

**ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "C"**

TOWN OF CHEEKTOWAGA, NY & VILLAGE OF LANCASTER, NY

TOWN OF CHEEKTOWAGA
SHANLEY ST. FROM CLINTON ST. TO DEAD-END
GRISWOLD ST. FROM SHANLEY ST. TO S. ROSSLER AVE.
PLEASANT PKWY. FROM GRISWOLD ST. TO DEAD-END
MEADOWBROOK PKWY. FROM GRISWOLD ST. TO DEAD-END
WILLOWLAWN PKWY. FROM GRISWOLD ST. TO DEAD-END

VILLAGE OF LANCASTER
STURM ST. FROM BRADY AVE. TO 83 STURM ST.
SCOTT ST. FROM SCHOOL ST. TO HOLLAND AVE.
HOLLAND AVE. FROM SCOTT ST. TO WINFIELD AVE.
AURORA ST. FROM CAMNER AVE. TO DORIS AVE.



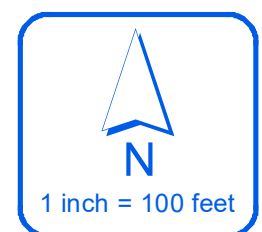
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

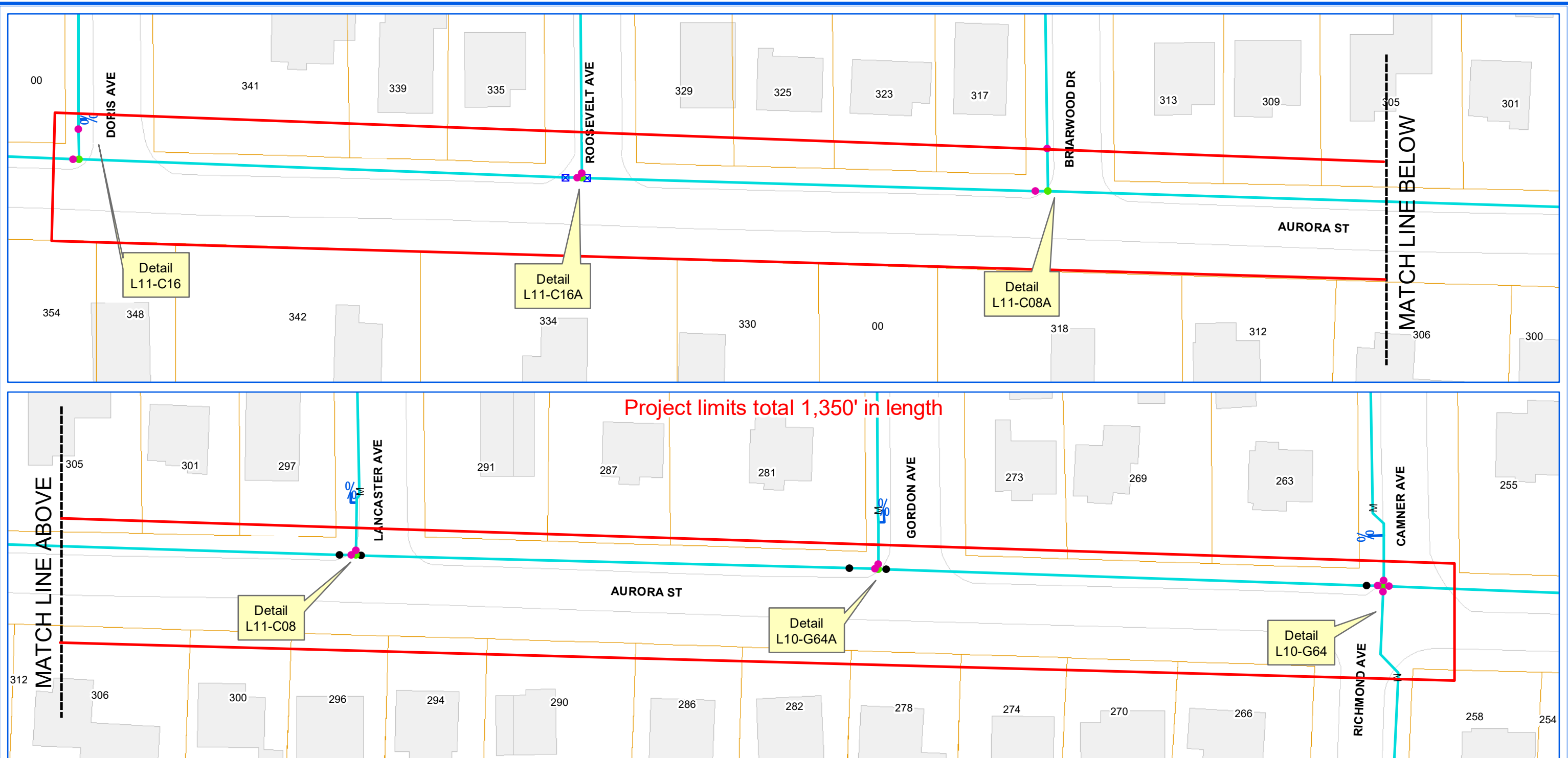
**ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "C"**

TOWN OF CHEEKTOWAGA, NY & VILLAGE OF LANCASTER, NY

TOWN OF CHEEKTOWAGA
 SHANLEY ST. FROM CLINTON ST. TO DEAD-END
 GRISWOLD ST. FROM SHANLEY ST. TO S. ROSSLER AVE.
 PLEASANT PKWY. FROM GRISWOLD ST. TO DEAN-END
 MEADOWBROOK PKWY. FROM GRISWOLD ST. TO DEAD-END
 WILLOWLAWN PKWY. FROM GRISWOLD ST. TO DEAD-END

VILLAGE OF LANCASTER
 STURM ST. FROM BRADY AVE. TO 83 STURM ST.
 SCOTT ST. FROM SCHOOL ST. TO HOLLAND AVE.
 HOLLAND AVE. FROM SCOTT ST. TO WINFIELD AVE.
 AURORA ST. FROM CAMNER AVE. TO DORIS AVE.





ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

**ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "C"**

TOWN OF CHEEKTOWAGA, NY & VILLAGE OF LANCASTER, NY

TOWN OF CHEEKTOWAGA
SHANLEY ST. FROM CLINTON ST. TO DEAD-END
GRISWOLD ST. FROM SHANLEY ST. TO S. ROSSLER AVE.
PLEASANT PKWY. FROM GRISWOLD ST. TO DEAN-END
MEADOWBROOK PKWY. FROM GRISWOLD ST. TO DEAD-END
WILLOWLAWN PKWY. FROM GRISWOLD ST. TO DEAD-END

VILLAGE OF LANCASTER
STURM ST. FROM BRADY AVE. TO 83 STURM ST.
SCOTT ST. FROM SCHOOL ST. TO HOLLAND AVE.
HOLLAND AVE. FROM SCOTT ST. TO WINFIELD AVE.
AURORA ST. FROM CAMNER AVE. TO DORIS AVE.





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. D.K.C.
DR.

DATE: 12.3.98

FIELD

REVISED
DR.

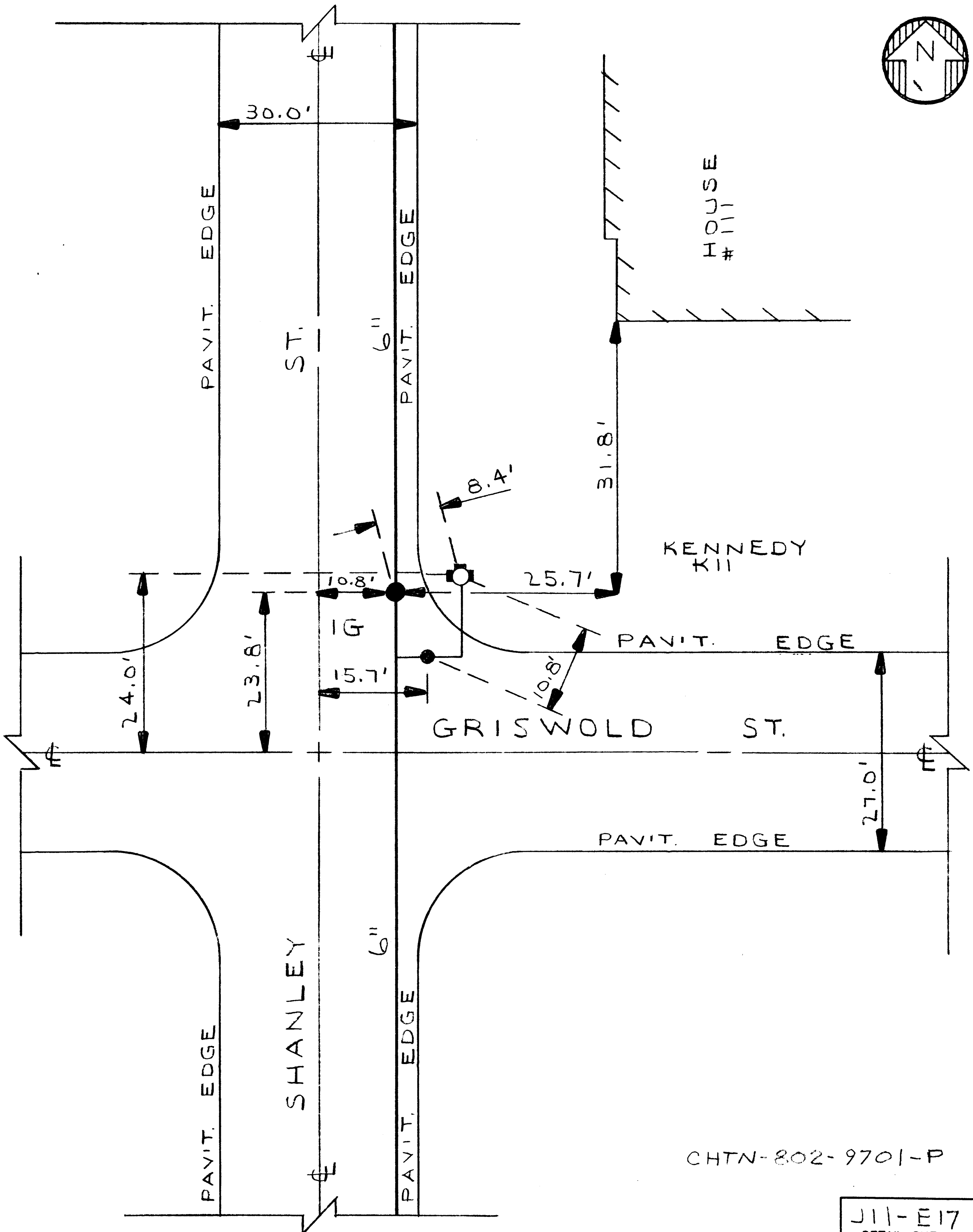
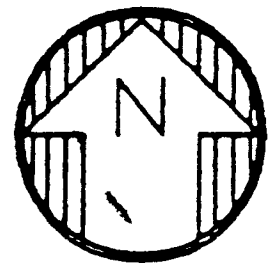
DATE:

OFFICE

TN. OF CHEEKTOWAGA
E.C.W.A.

J11-E17
DETAIL NO.(NTS)

199700150
CURRENT PROJECT NO



CHTN-802-9701-P

J11-E17
DETAIL SHT. NO.

MASTER COPY.



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED
 DR. N.G.S.

DATE: 1/23/01

FIELD

REVISED
 DR. M.J.M.

DATE: 8/3/09

OFFICE

TOWN OF CHEEKTOWAGA
E.C.W.A.

J11-E17A

DETAIL SHT. NO.

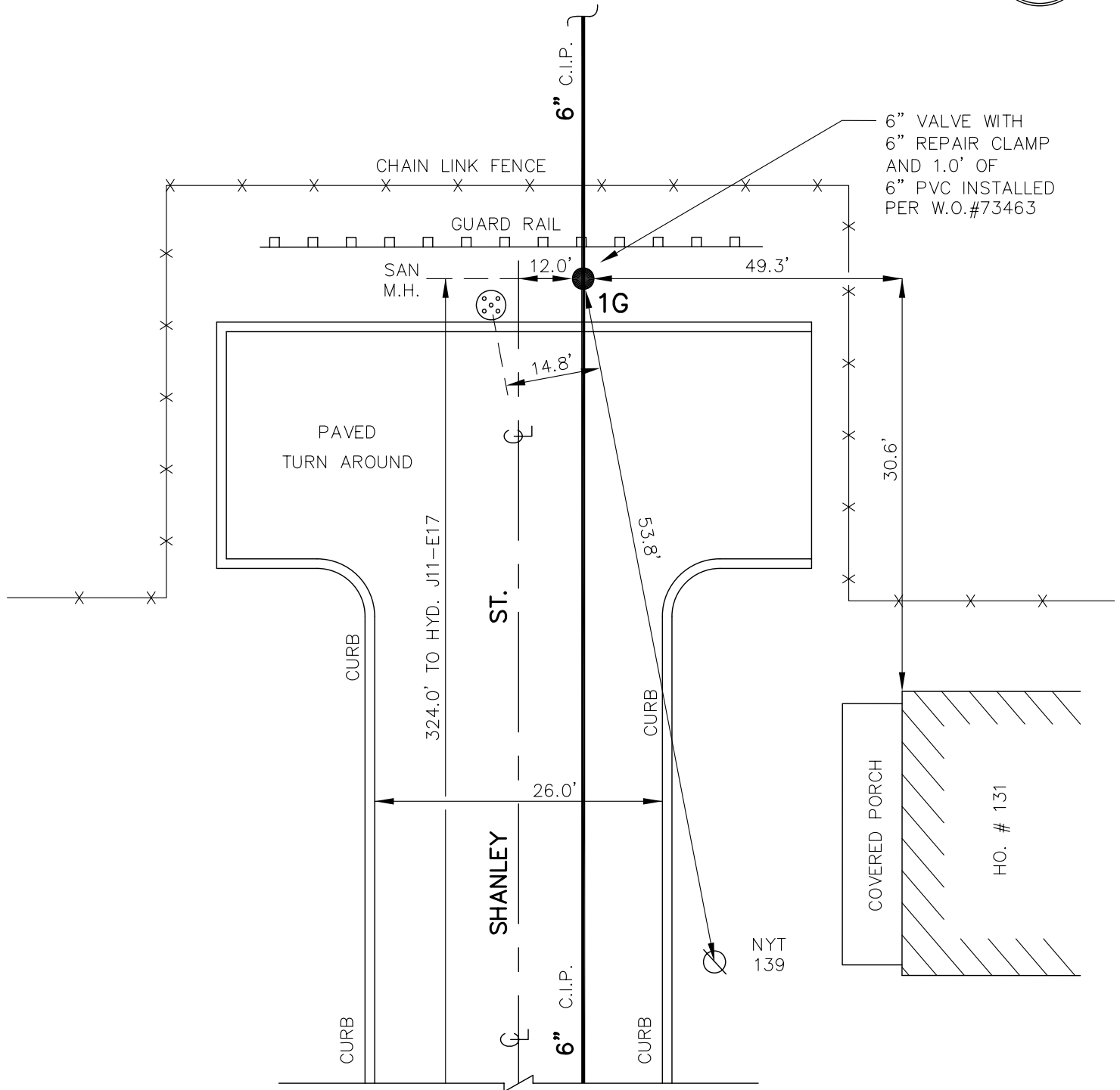
200000482

CURRENT PROJECT NO.



**VALVE 1G NORMALLY
 CLOSED. LOCKED CAP**

N.Y.S. THRUWAY (I-190)



NOTE: VALVE 1G IS CLOSED TO ISOLATE A LEAK UNDER THE THRUWAY (I-190).

NOTE: DETAIL DRAWN ON CAD SYSTEM.

CHTN-802-0001
 W.O. #: 73463

J11-E17A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. N.G.S.

DATE: 1/23/01

FIELD

REVISED
DR. M.J.M.

DATE: 9/18/18

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J11-E18

DETAIL SHT. NO.

200000487

CURRENT PROJECT NO.

N.Y.S. THRUWAY (190)



NOTE: VALVE 1G CLOSED TO ISOLATE THE
MAIN UNDER THE THRUWAY (I-190)
PER LINE MAINTENANCE.

VALVE 1G
NORMALLY CLOSED.

CHAIN LINK FENCE

GUARD RAIL

NOTE: (2) 6" DRESSER COUPLINGS
& 2.0' - 6" P.V.C. INSTALLED
UNDER W.O. # 73678

ENTRANCE TO
NYS THRUWAY BUILDING

423.0' TO GRISWOLD ST.

PKWY.

1G

6'89"

44.4'

26.0'

CURB

WILLOWLAWN

6" C.I.P.

CURB

NYSEG
11
NYT
139

HO. # 141

NOTE: DETAIL DRAWN ON
CAD SYSTEM.

CHTN-961-0001
W.O. #0073678
F.B. 69/54

J11-E18

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK



REVISED
 DR. N.G.S.

DATE: 1/23/01

FIELD

REVISED
 DR. M.J.M.

DATE: 9/14/18

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J11-E18A

DETAIL SHT. NO.

200000483

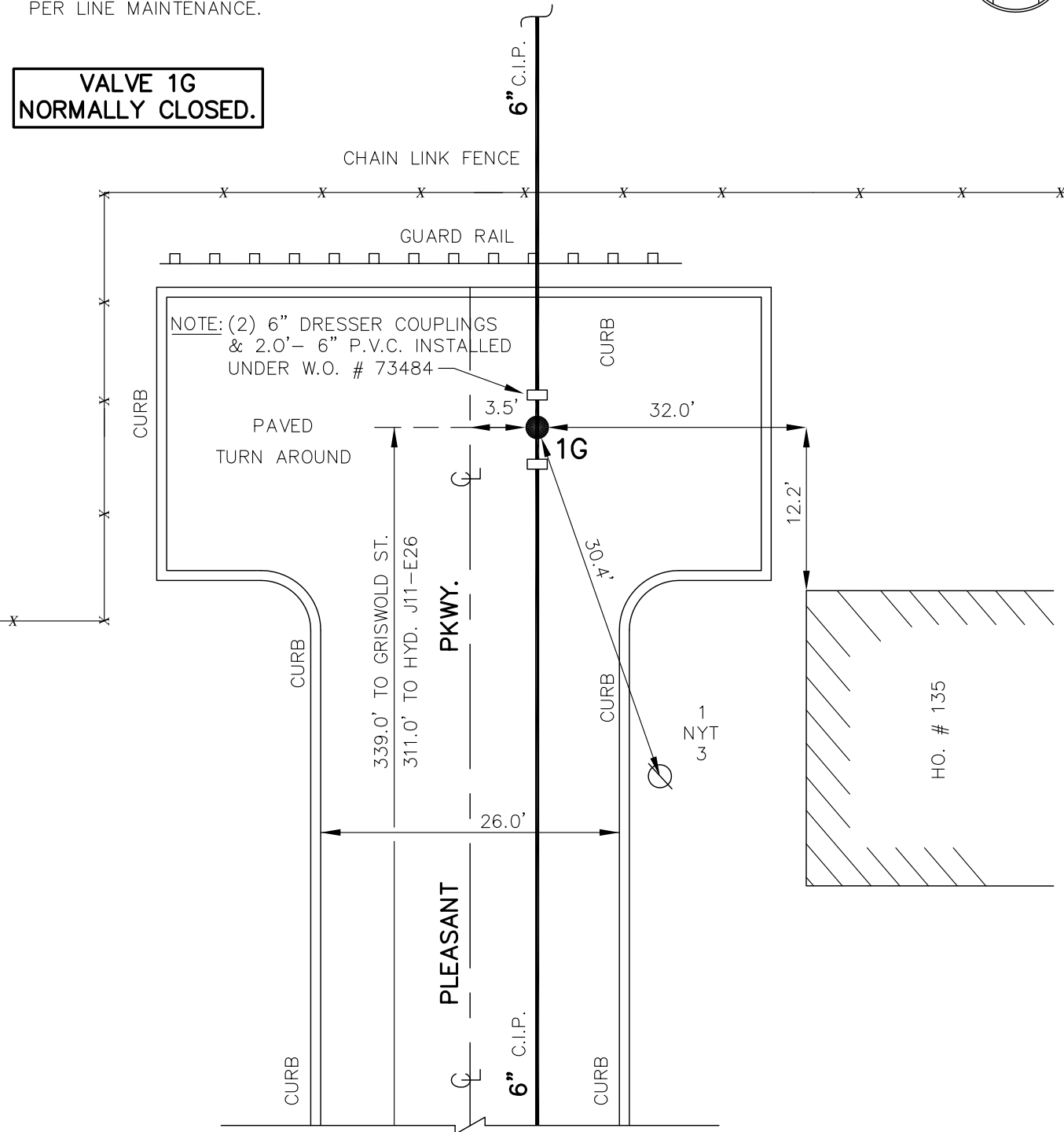
CURRENT PROJECT NO.

N.Y.S. THRUWAY (190)



NOTE: VALVE 1G CLOSED TO ISOLATE THE
 MAIN UNDER THE THRUWAY (I-190)
 PER LINE MAINTENANCE.

**VALVE 1G
 NORMALLY CLOSED.**



NOTE: DETAIL DRAWN ON
 CAD SYSTEM.

CHTN-709-0001
 W.O. #0073484
 F.B. 67/33

J11-E18A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK



REVISED
DR. N.G.S.

DATE: 1/23/01

FIELD

REVISED
DR. M.J.M.

DATE: 9/18/18

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J11-E19

DETAIL SHT. NO.

200000496

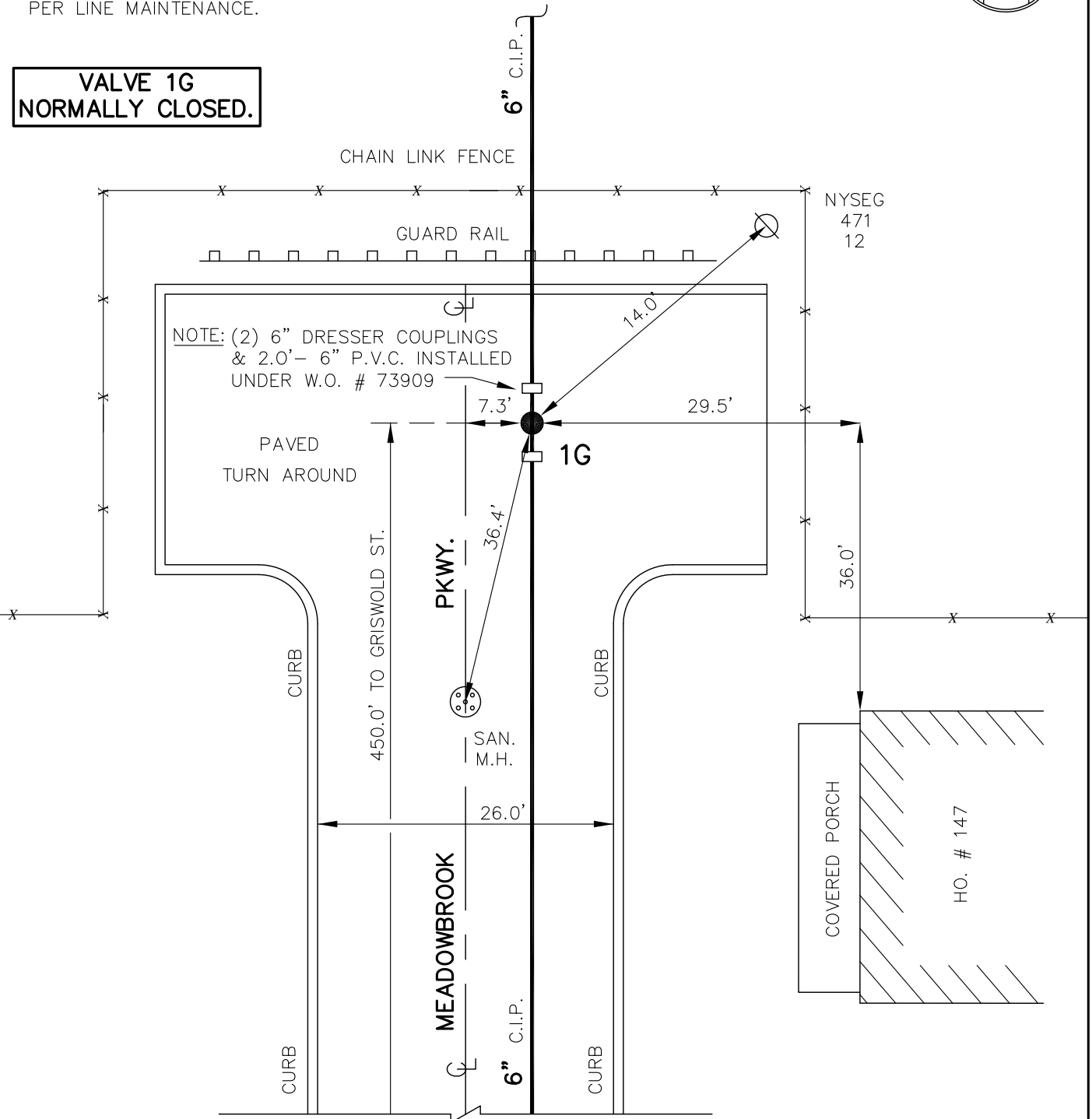
CURRENT PROJECT NO.

N.Y.S. THRUWAY (190)



NOTE: VALVE 1G CLOSED TO ISOLATE THE
MAIN UNDER THE THRUWAY (I-190)
PER LINE MAINTENANCE.

VALVE 1G
NORMALLY CLOSED.



NOTE: DETAIL DRAWN ON
CAD SYSTEM.

CHTN-594-0002
W.O. #0073909
F.B. 27/8

J11-E19
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. D.K.C.
DR.

DR.

DATE: 5.7.13

DATE:

FIELD

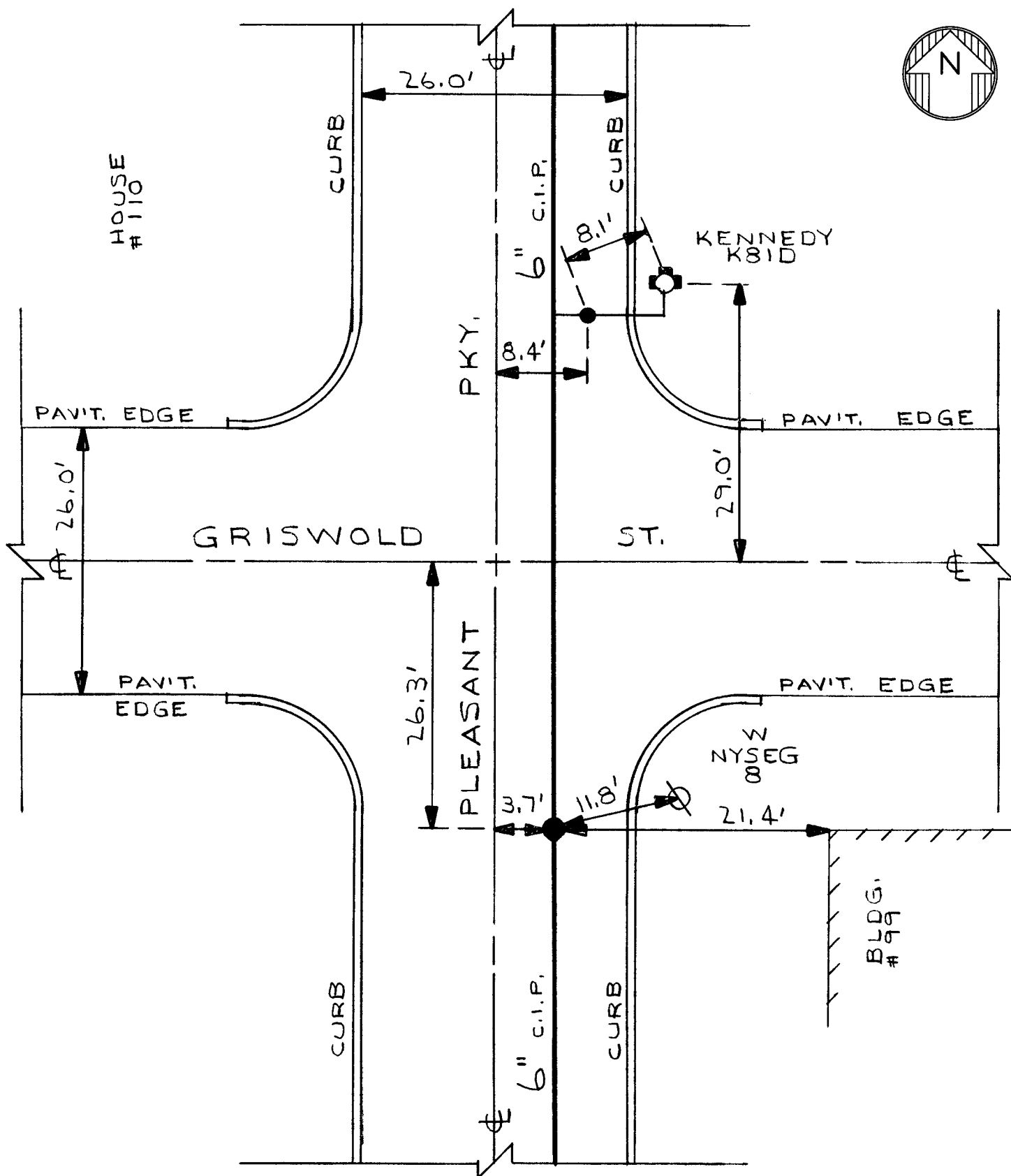
OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J11-E26
DETAIL SHT. NO.

201000103
CURRENT PROJECT NO.



CHTN-709-1001

J11-E26
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. D K.C.

DR.

DATE: 5.7.13

DATE:

FIELD

OFFICE

TOWN OF CHEEKTOWAGA

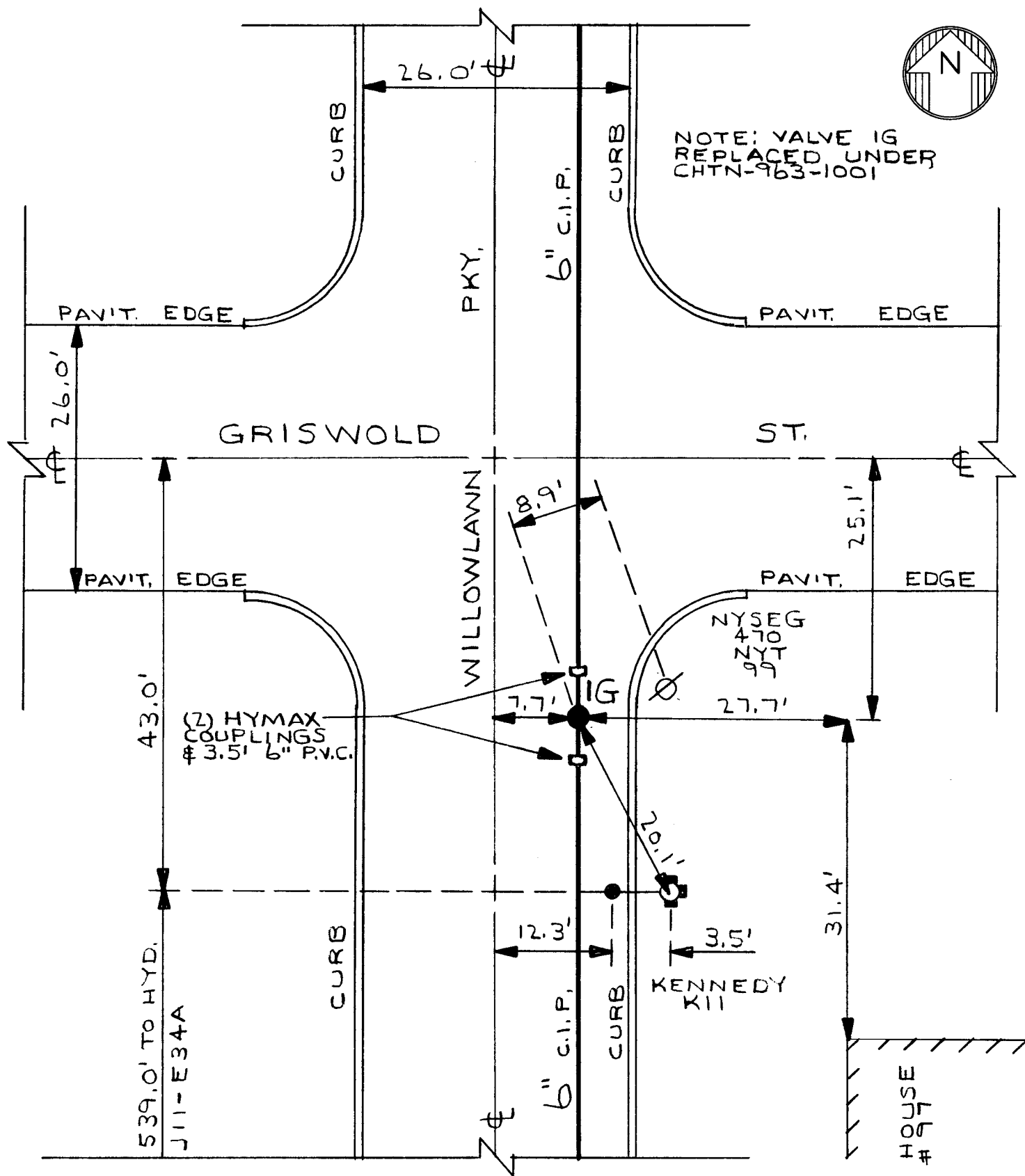
E.C.W.A.

J11-E26A

DETAIL SHT. NO.

201000149

CURRENT PROJECT NO.

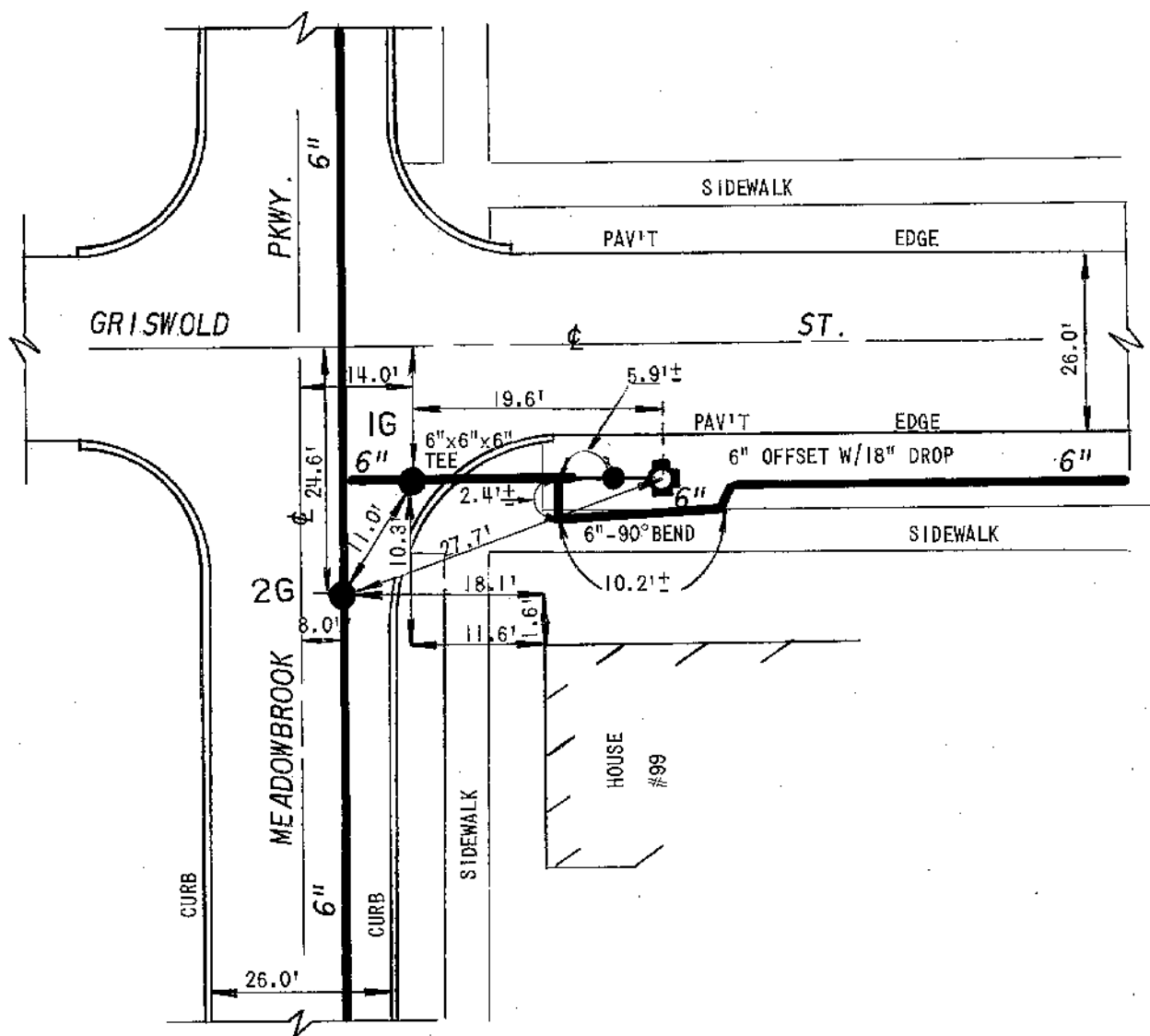


CHTN-963-1001

J11-E26A

DETAIL SHT. NO.

MASTER COPY



FB. 422/12

DETAIL SHEET NO.



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR.

REVISED
DR. DCC

TOWN OF CHEEKTOWAGA

J11-E28

DETAIL SHT. NO.

DATE:

DATE: 3-18-02

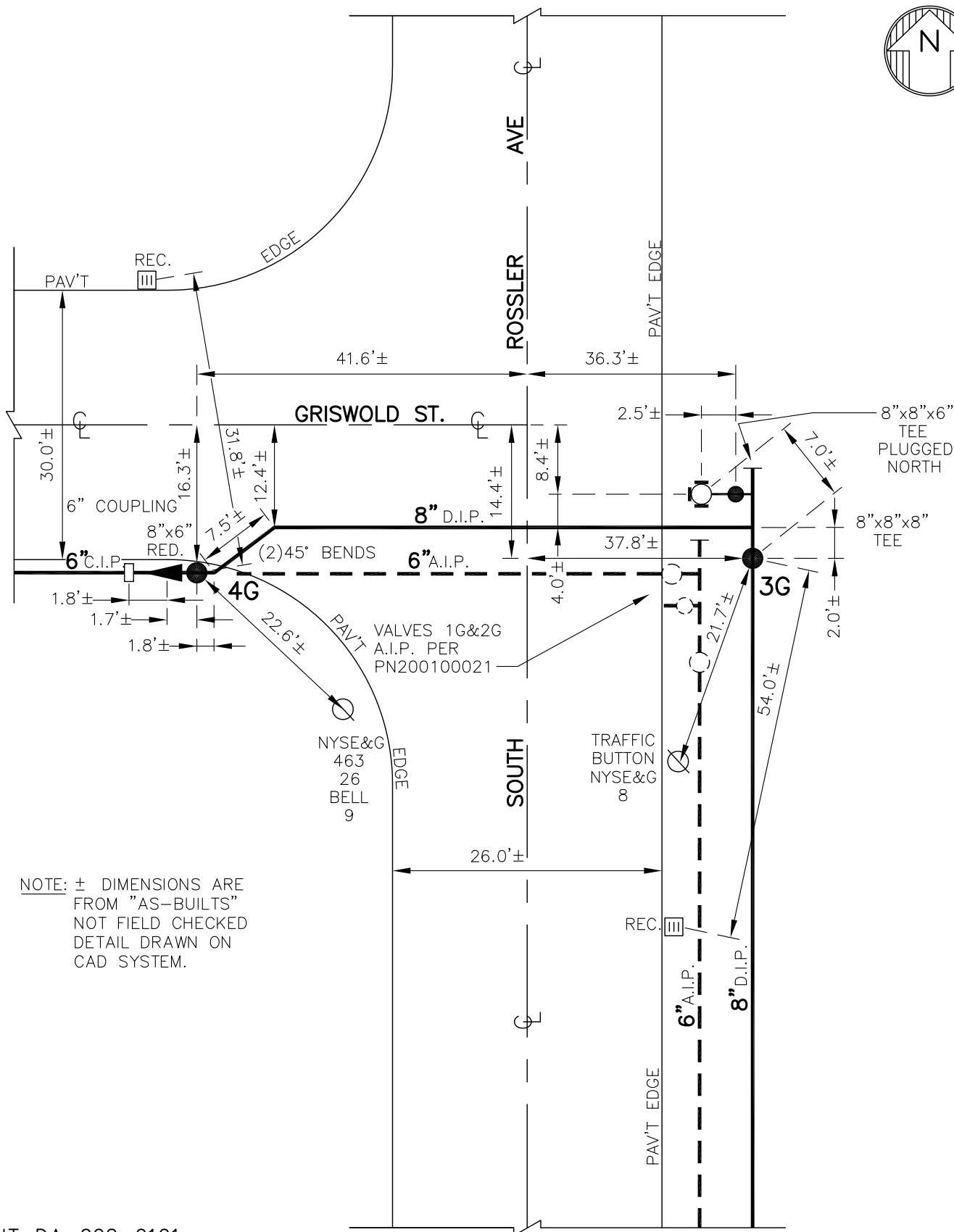
E.C.W.A.

200100021

CURRENT PROJECT NO.

FIELD

OFFICE



NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.

CONT-DA-002-0101
FB. 422/11

J11-E28

DETAIL SHT. NO.

MASTER COPY

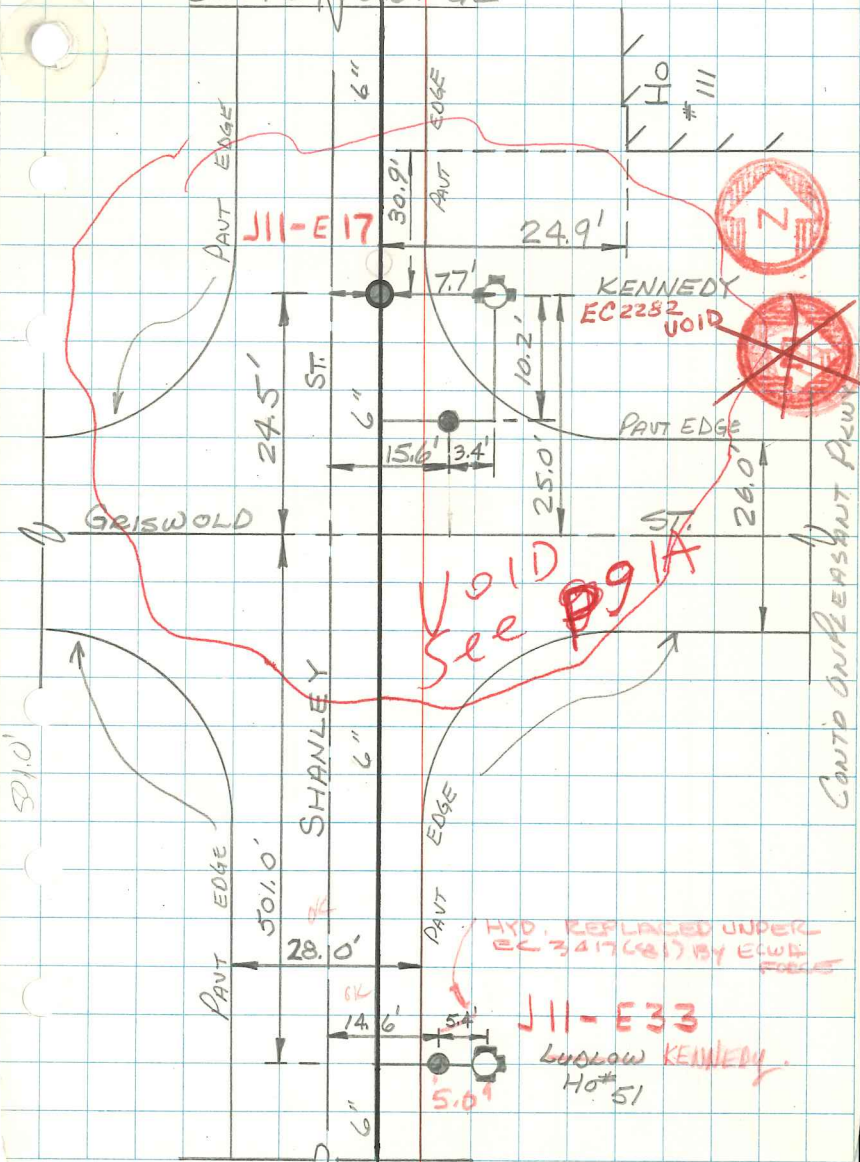
PG 4
J11

SHANLEY S
TNOF CHEEK
ECWA
PLR & RL13

4-22-73

PL#95

CONT'D ON PG 2



CONT'D ON CLINTON ST



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. D.K.C.

DR.

DATE: 9.18.09

DATE:

FIELD

OFFICE

VILL. OF LANCASTER

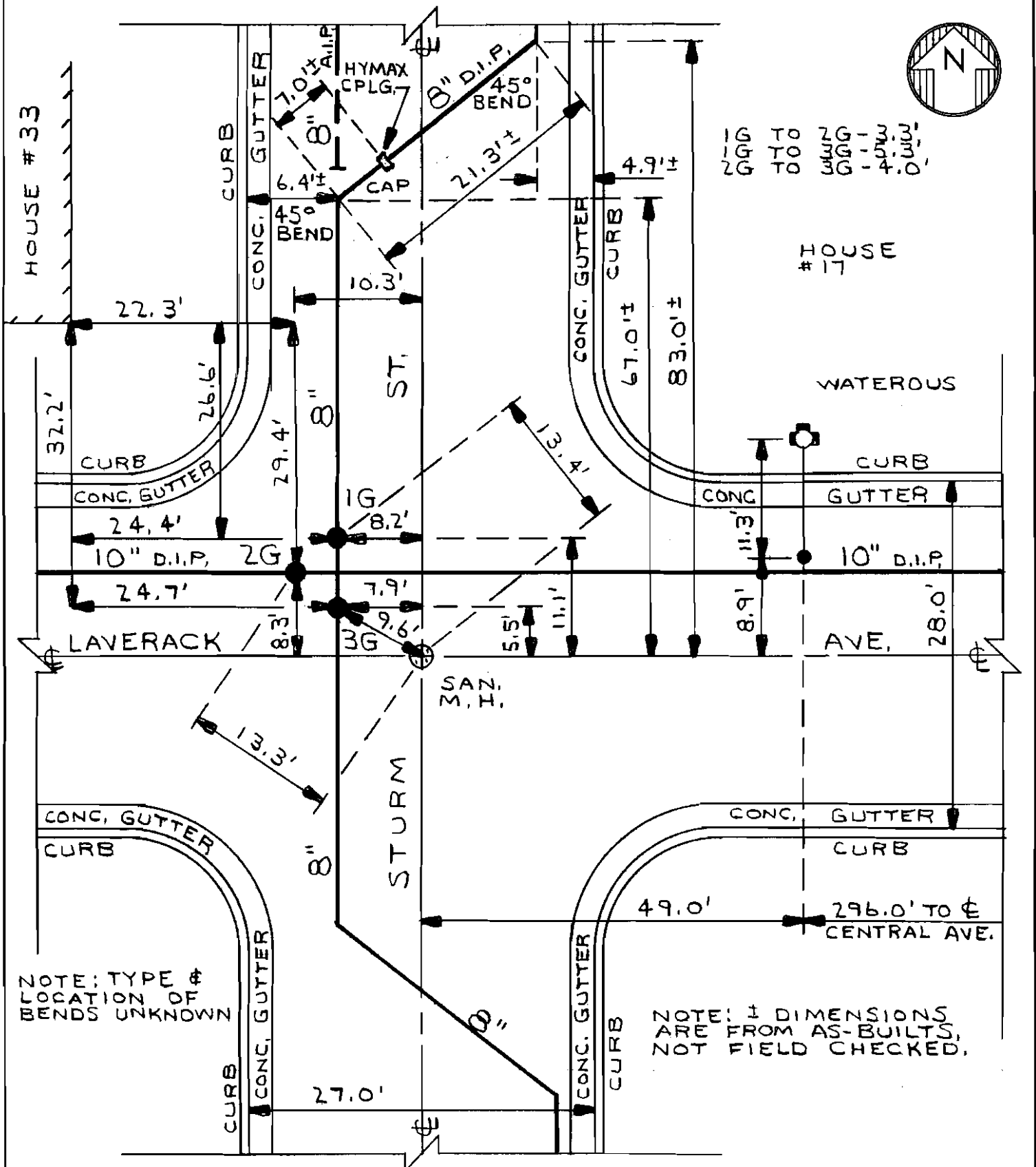
E.C.W.A.

L10-D27

DETAIL SHT. NO.

200700319

CURRENT PROJECT NO.



CONT-T-021-0701
LNYL-928-0101

L10-D27
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 5/4/11
FIELD

REV. DR.
DATE:
OFFICE

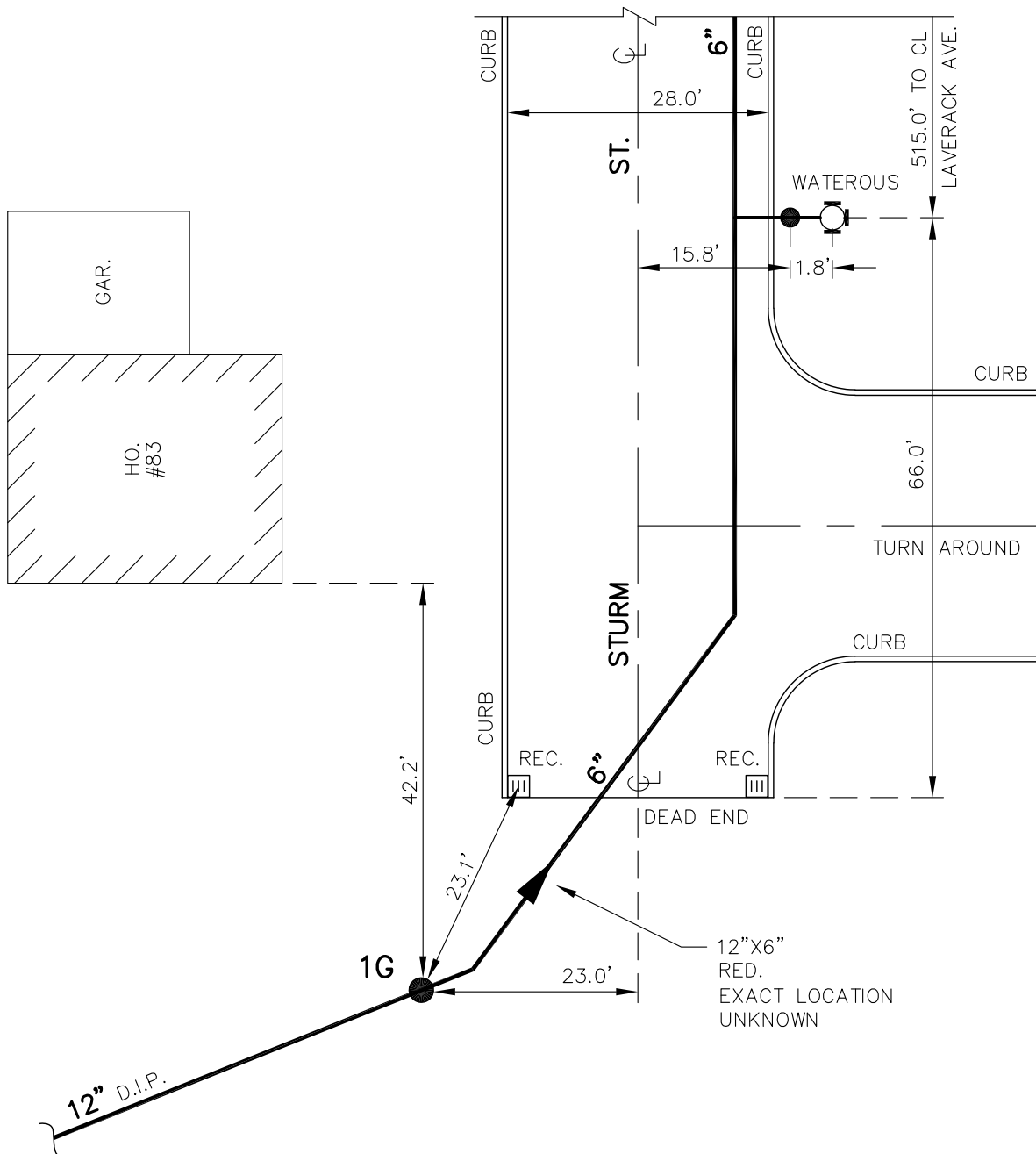
VILLAGE OF LANCASTER
E.C.W.A.

L10-D35A

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



NOTE: TYPE & EXACT LOCATION OF BENDS UNKNOWN.

NOTE: DETAIL DRAWN ON CAD SYSTEM.

LNVL-928-0101
DWG. SET "E"

L10-D35A

DETAIL SHT. NO.

MASTER COPY



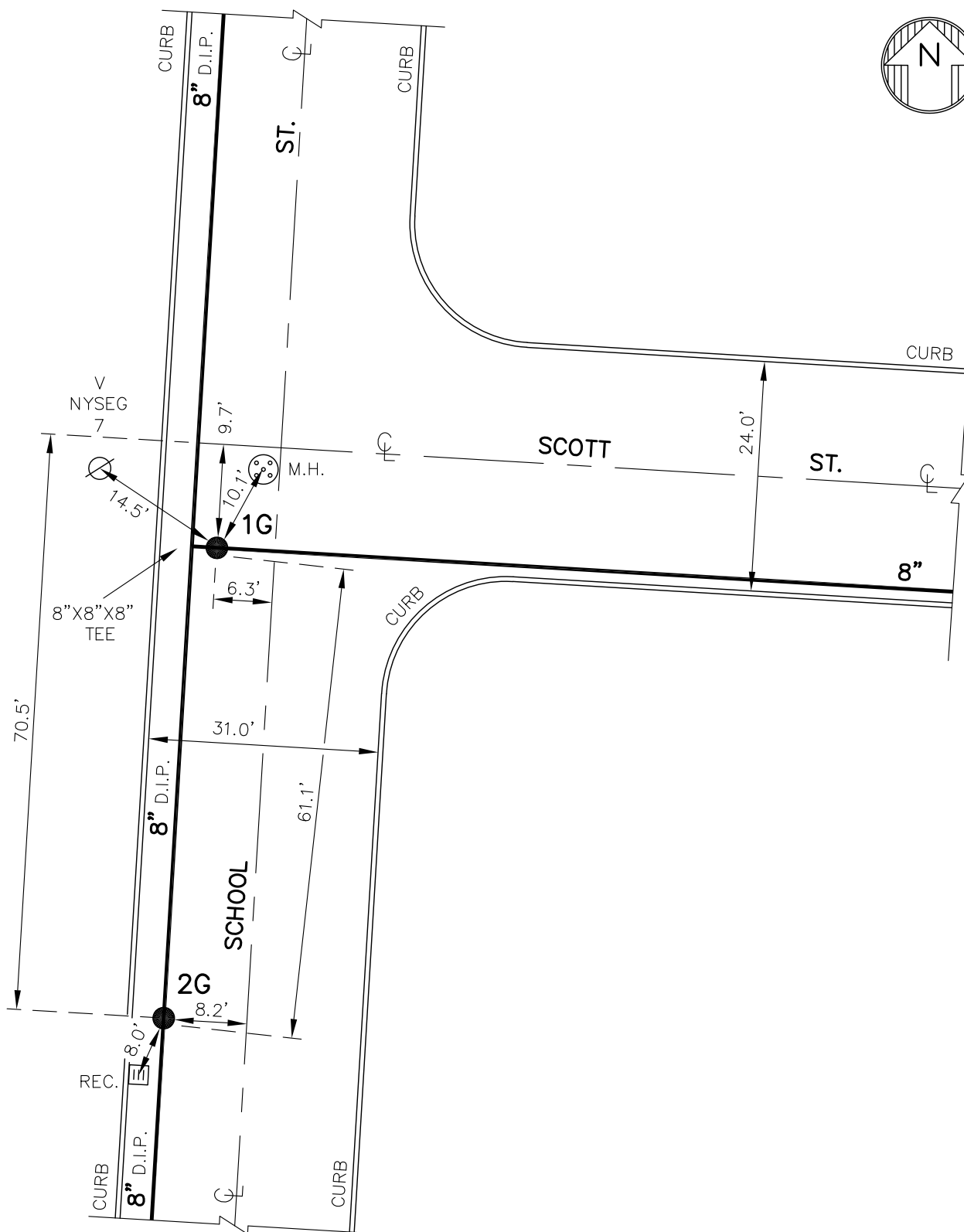
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 6/8/11
FIELD

REV. DR.
DATE:
OFFICE

VILLAGE OF LANCASTER
E.C.W.A.

L10-H07
DETAIL SHT. NO.
200100183
CURRENT PROJECT NO.



NOTE: DETAIL DRAWN ON
CAD SYSTEM.

LNVL-928-0101

L10-H07
DETAIL SHT. NO.

MASTER COPY



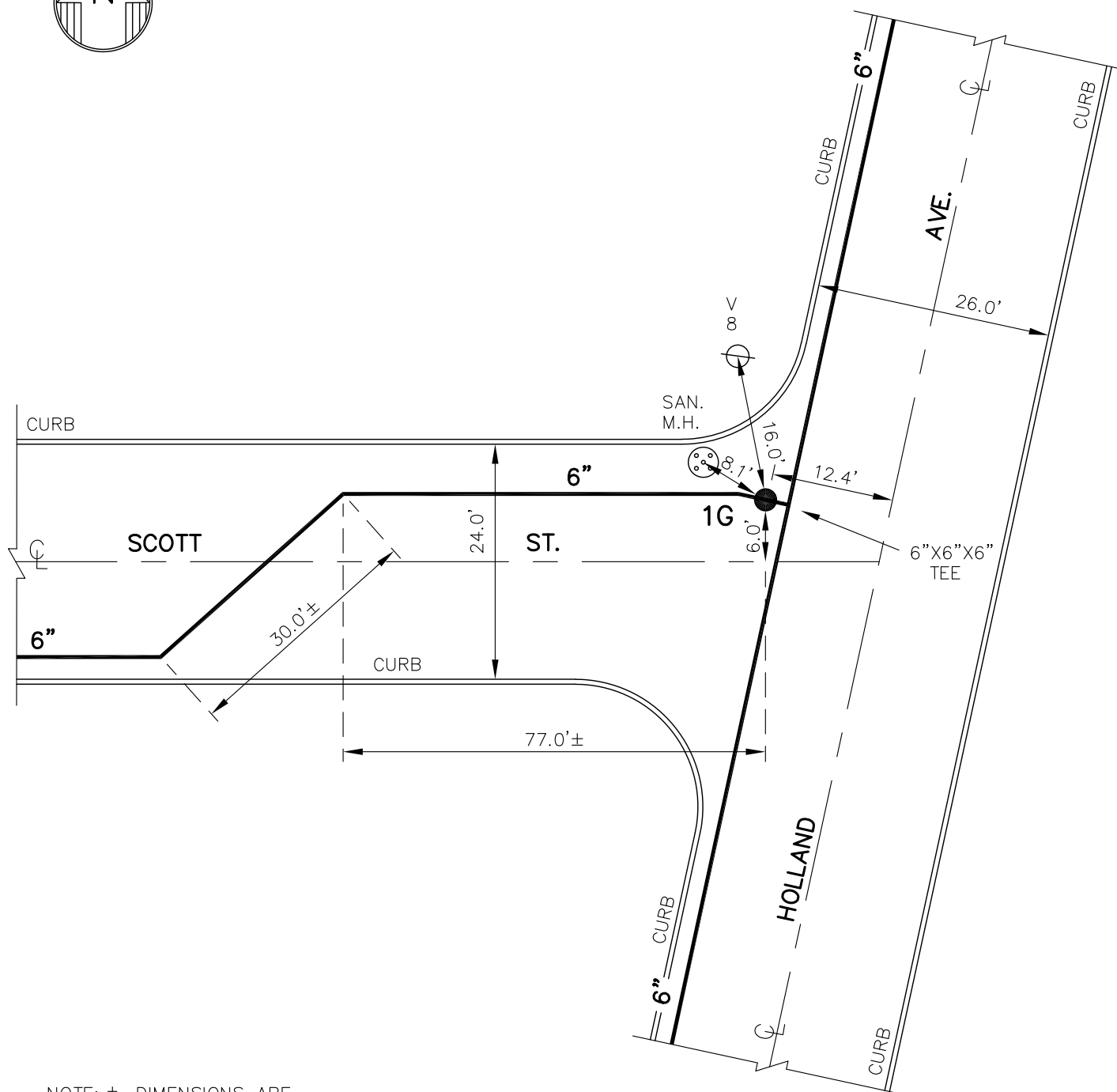
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 6/8/11
FIELD

REV. DR.
DATE:
OFFICE

VILLAGE OF LANCASTER
E.C.W.A.

L10-H08
DETAIL SHT. NO.
200100183
CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE
FROM LNVL RECORD
DRAWINGS. NOT
FIELD CHECKED.
DETAIL DRAWN ON
CAD SYSTEM.

NOTE: TYPE & EXACT LOCATION
OF BENDS UNKNOWN.

LNVL-928-0101

L10-H08
DETAIL SHT. NO.

MASTER COPY



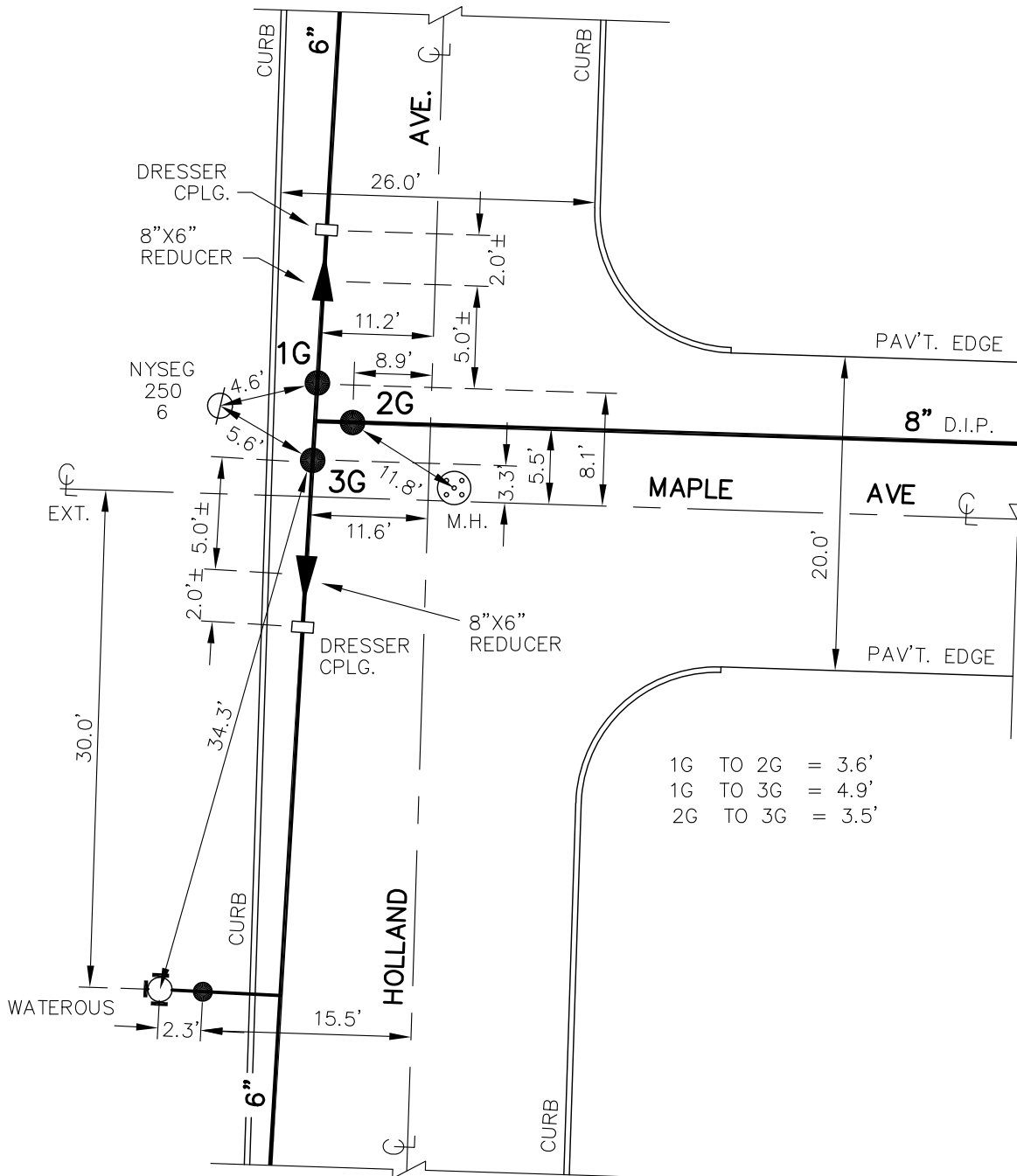
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 6/6/11
FIELD

REV. DR.
DATE:
OFFICE

VILLAGE OF LANCASTER
E.C.W.A.

M10-A57
DETAIL SHT. NO.
200100183
CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE
FROM LNVL RECORD
DRAWINGS. NOT
FIELD CHECKED.
DETAIL DRAWN ON
CAD SYSTEM.

LNVL-928-0101
DWG. SET E

M10-A57
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 6/6/11
FIELD

REV. DR.
DATE:
OFFICE

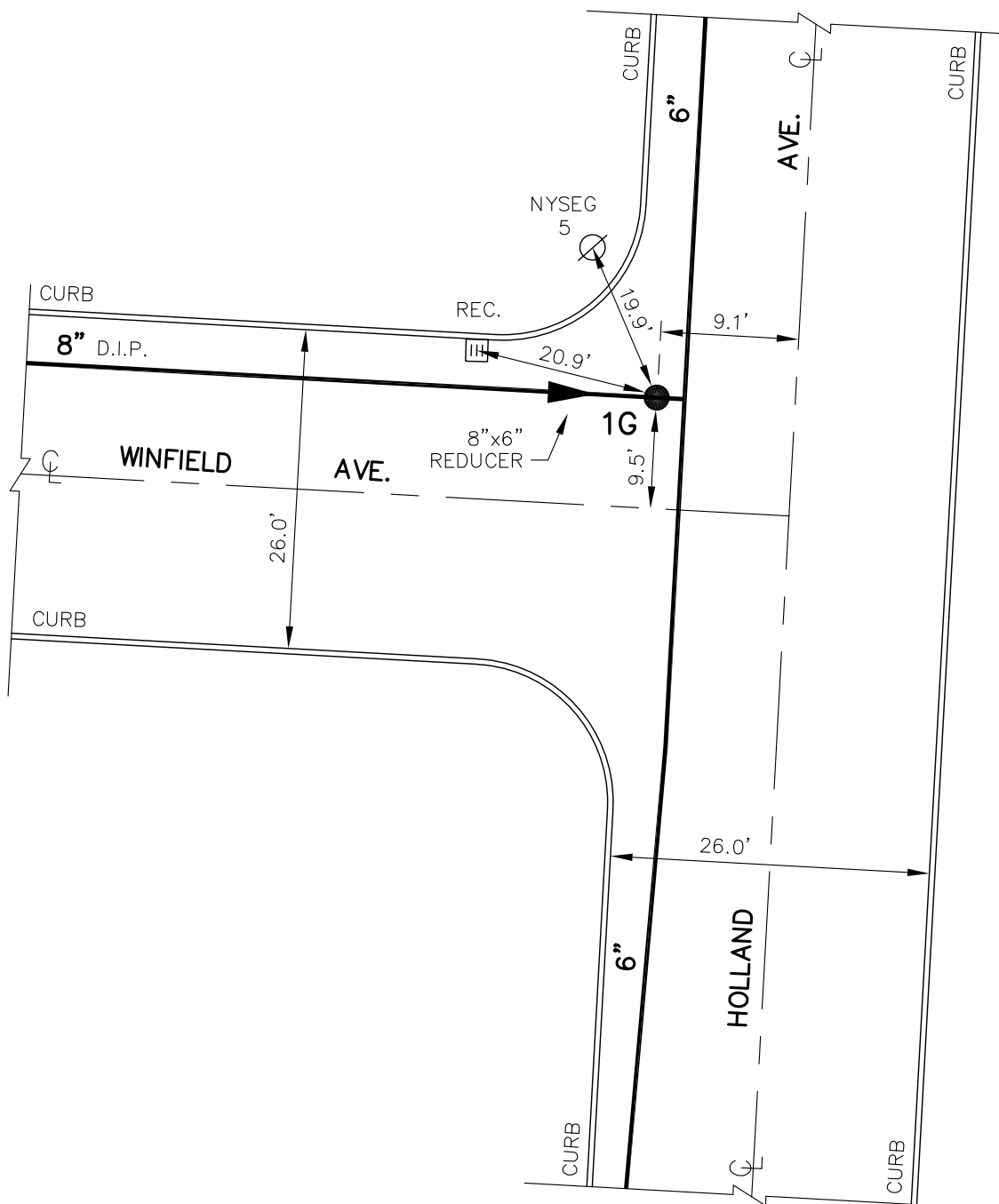
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E.C.W.A.

M10-A57A

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



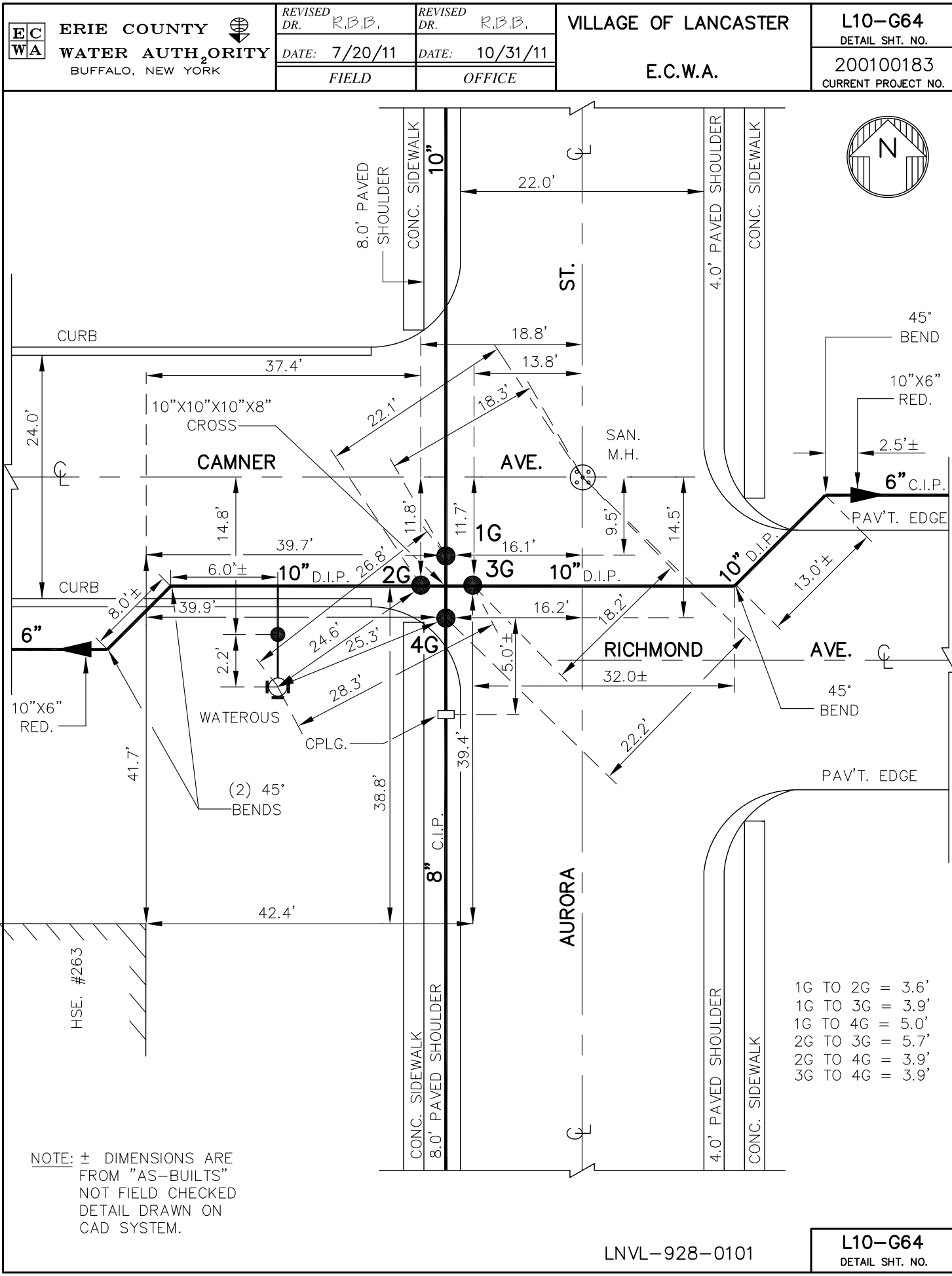
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CAD SYSTEM.

LNVL-928-0101

M10-A57A

DETAIL SHT. NO.

MASTER COPY





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.B.B.

DATE: 7/18/11

FIELD

REVISED
DR. R.B.B.

DATE: 10/31/11

OFFICE

VILLAGE OF LANCASTER

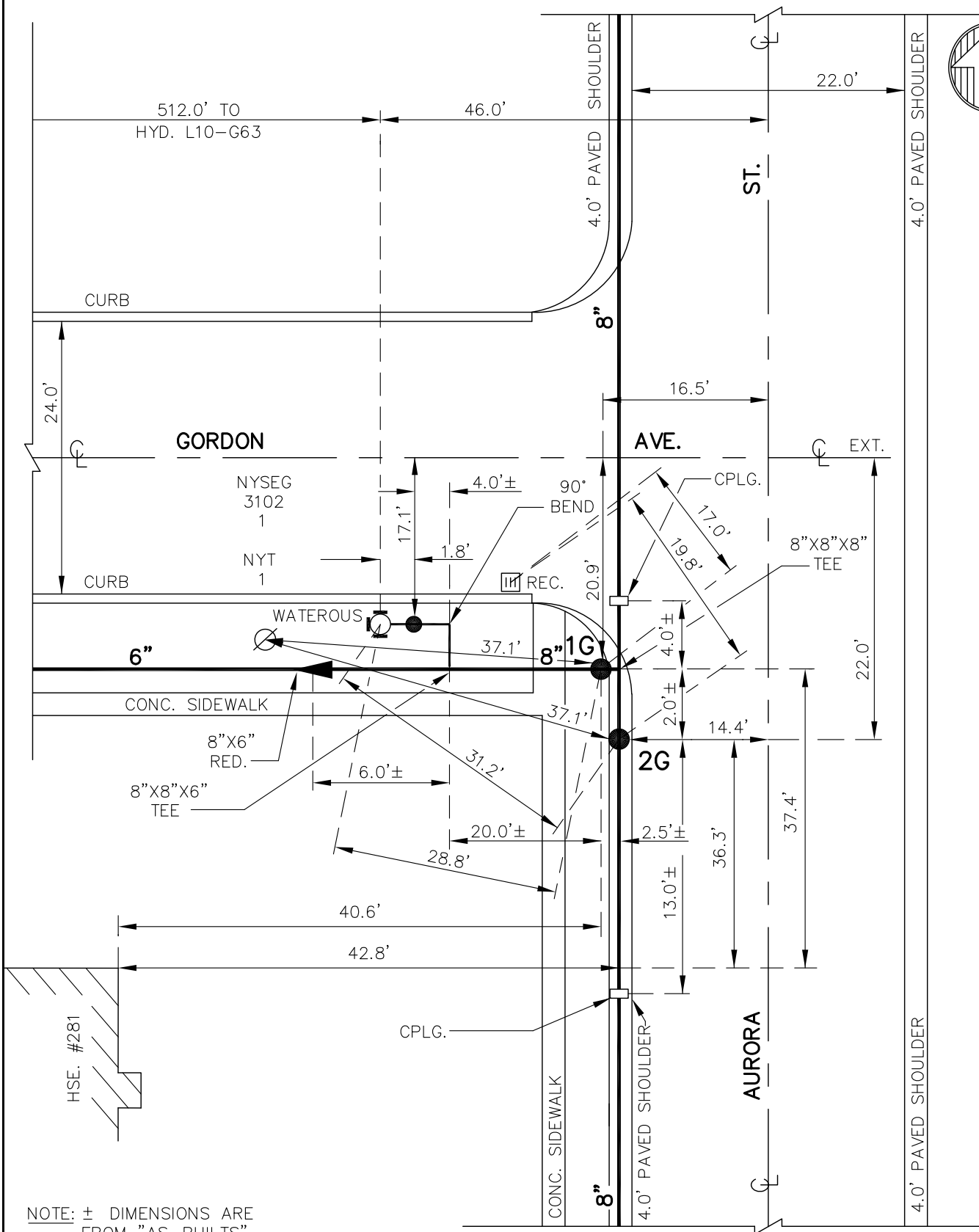
E.C.W.A.

L10-G64A

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.

1G TO 2G = 3.1'

DWG. SET "D"
LNLV-928-0101

L10-G64A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.B.B.

DATE: 7/18/11

FIELD

REVISED
DR.

DATE:

OFFICE

VILLAGE OF LANCASTER

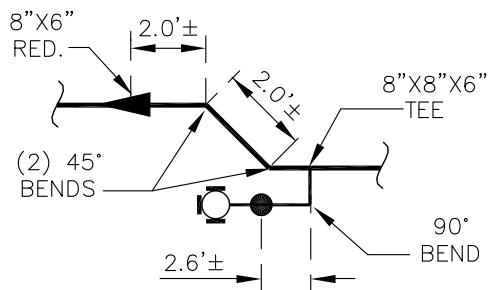
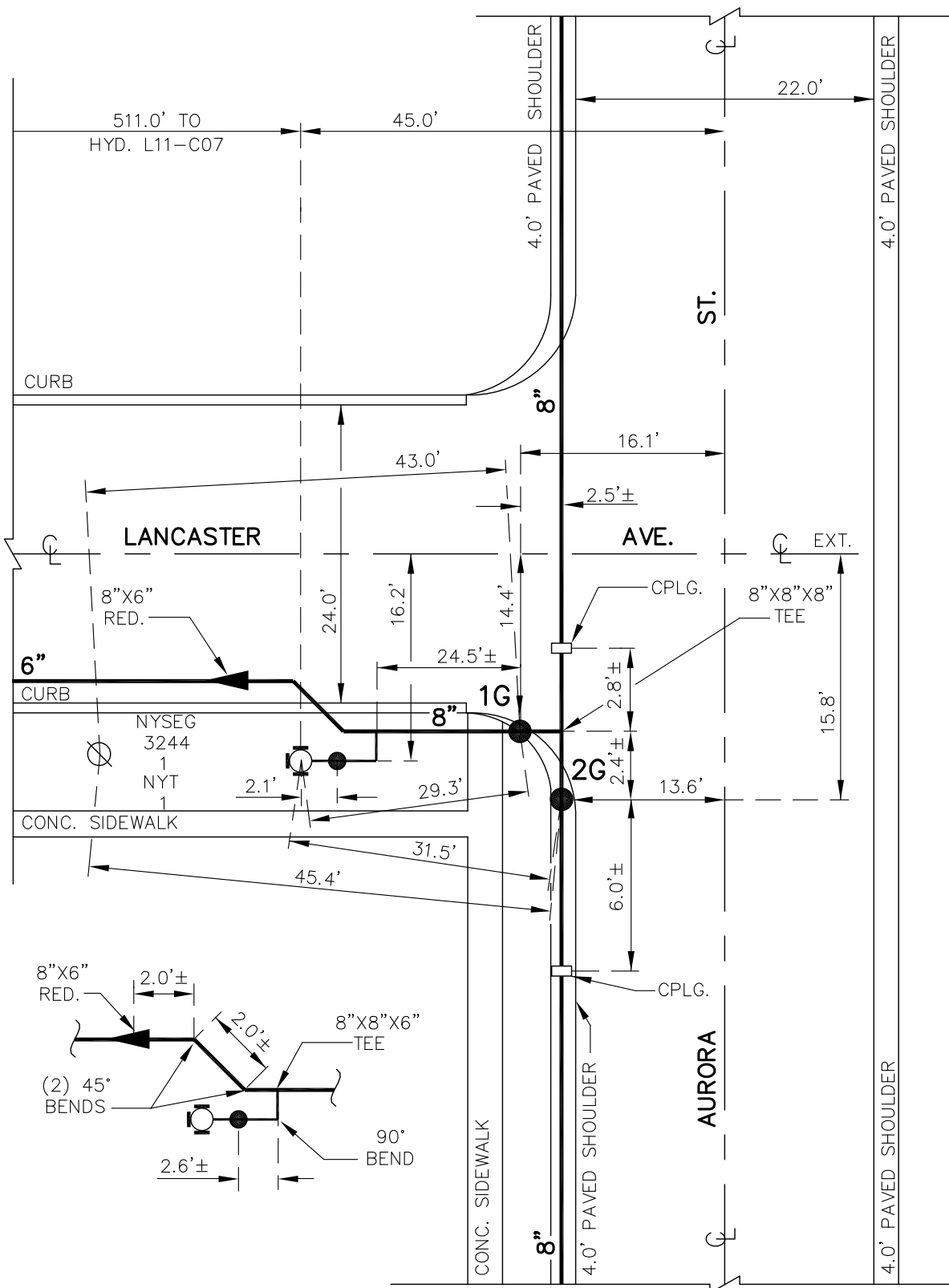
E.C.W.A.

L11-C08

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



NOTE: \pm DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.

1G TO 2G = 3.4'

DWG. SET "D"
LNLV-928-0101

L11-C08

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.B.B.

DATE: 8/2/11

FIELD

REVISED
DR. R.B.B.

DATE: 10/31/11

OFFICE

VILLAGE OF LANCASTER

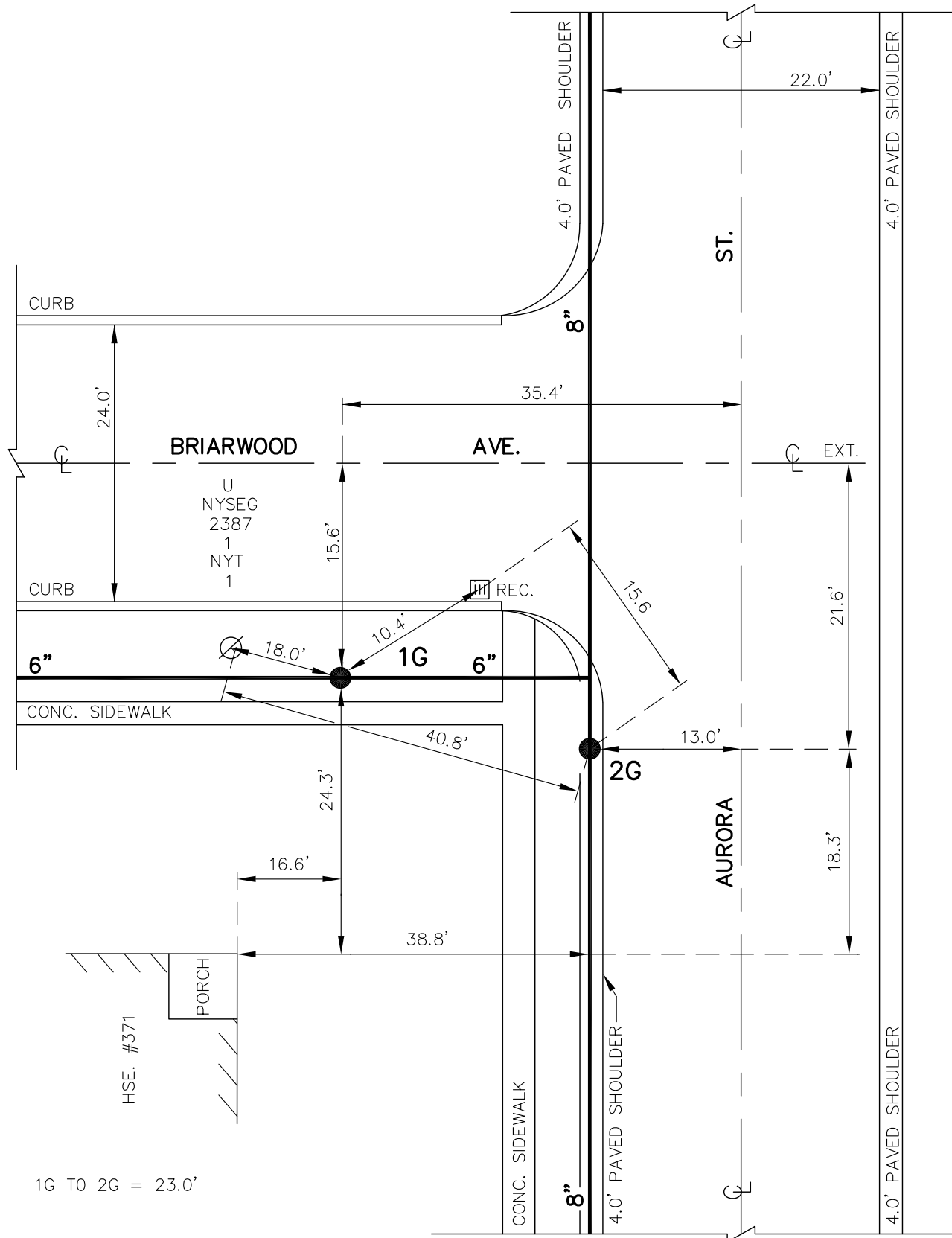
E.C.W.A.

L11-C08A

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



1G TO 2G = 23.0'

NOTE: DETAIL DRAWN ON
CAD SYSTEM.

LNVL-928-0101

L11-C08A

DETAIL SHT. NO.

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DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. CHM
DATE: 3/22/11
FIELD

REV. DR.
DATE:
OFFICE

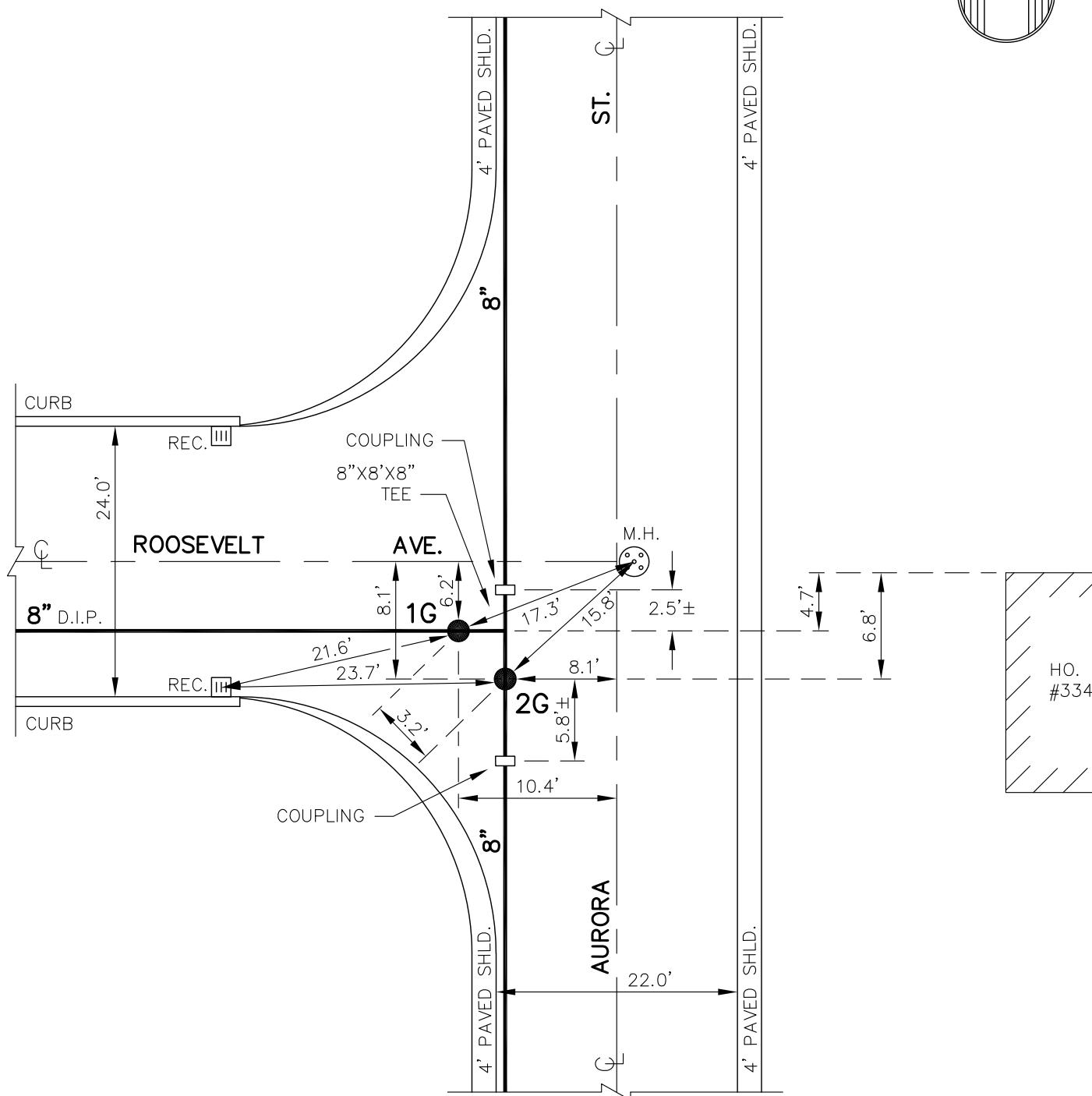
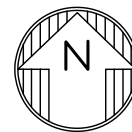
VILLAGE OF LANCASTER
E.C.W.A.

L11-C16A

DETAIL SHT. NO.

200100183

CURRENT PROJECT NO.



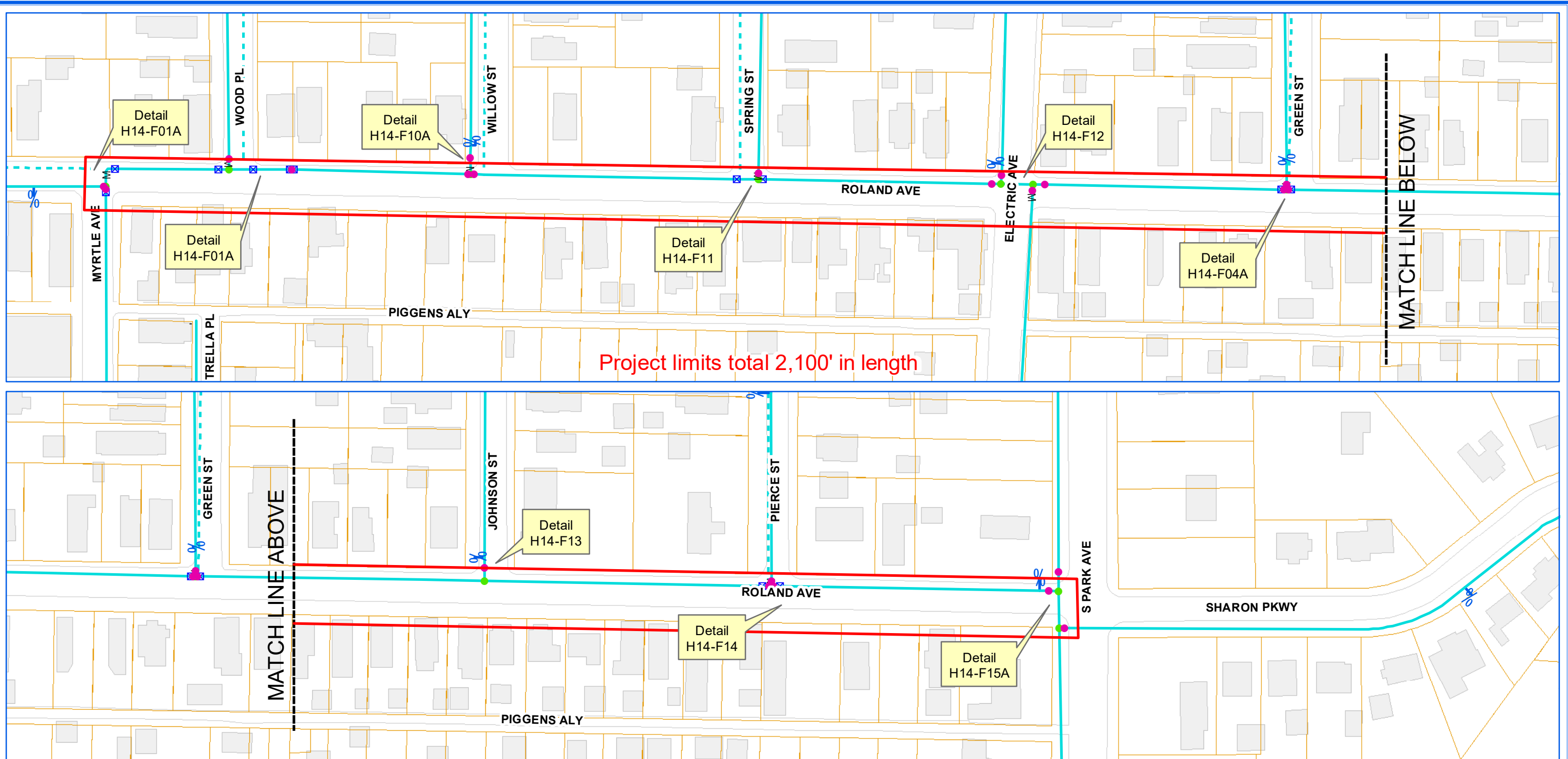
NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.

LNVL-928-0101
DWG. SET D, BK. 3 OF 4

L11-C16A

DETAIL SHT. NO.

MASTER COPY

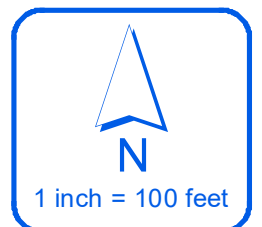


ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

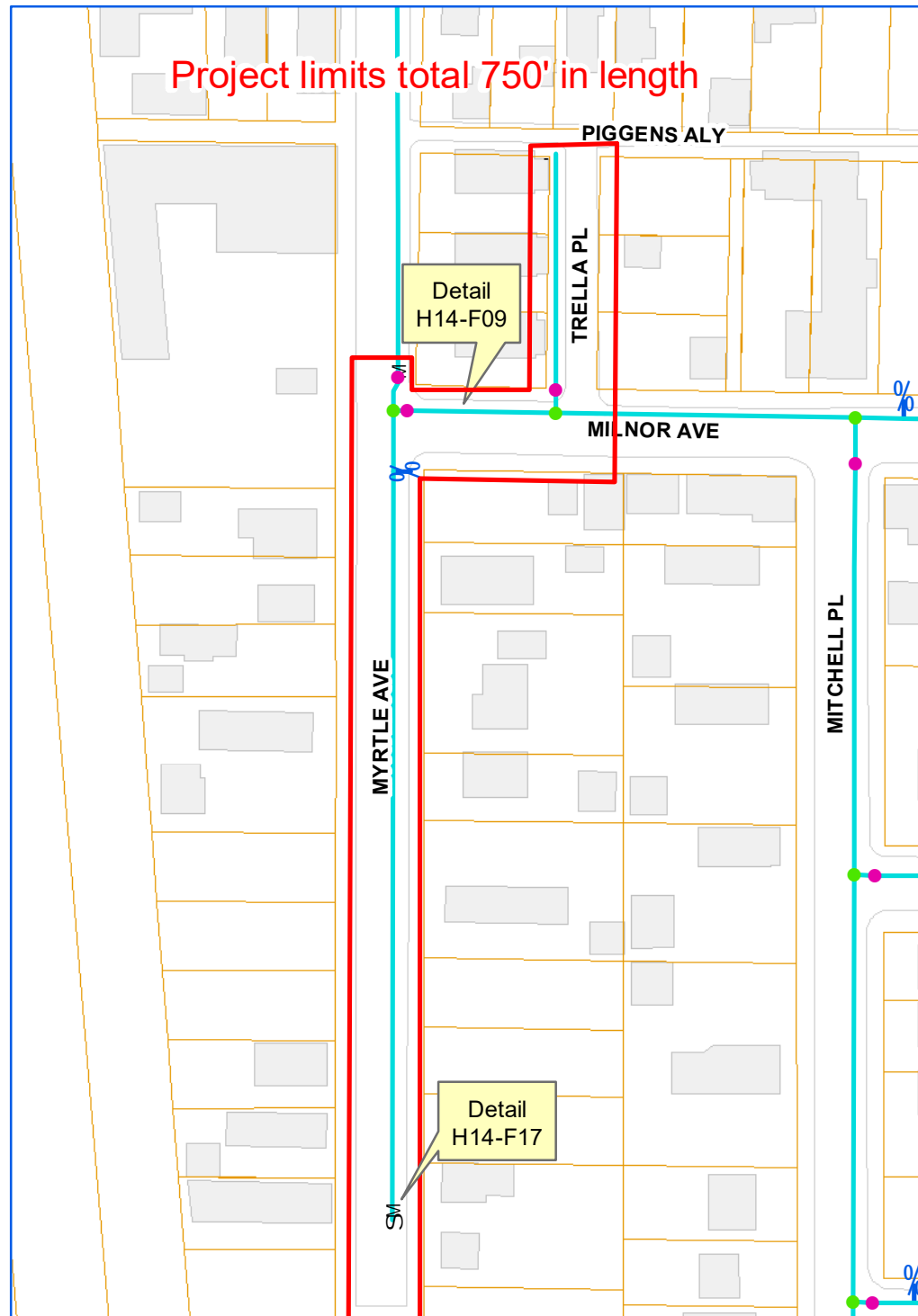
**ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY**

CITY OF LACKAWANNA
ROLAND AVE. FROM MYRTLE AVE. TO S. PARK AVE.
MYRTLE AVE. FROM MILNORE AVE. TO DEAD-END
MILNOR AVE FROM MYRTLE AVE. TO TRELLA PL.
TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
CLEVELAND AVE. FROM MITCHELL PL. TO S. PARK AVE.
KIRBY AVE. FROM CENTER ST. PAST DEAD-END TO BEHIND HO. #33 WARSAW ST.
NORTH DR. FROM 40 NORTH RD. TO DEAD-END
S. FISHER RD. FROM NORTH RD. TO 4 S. FISHER RD.

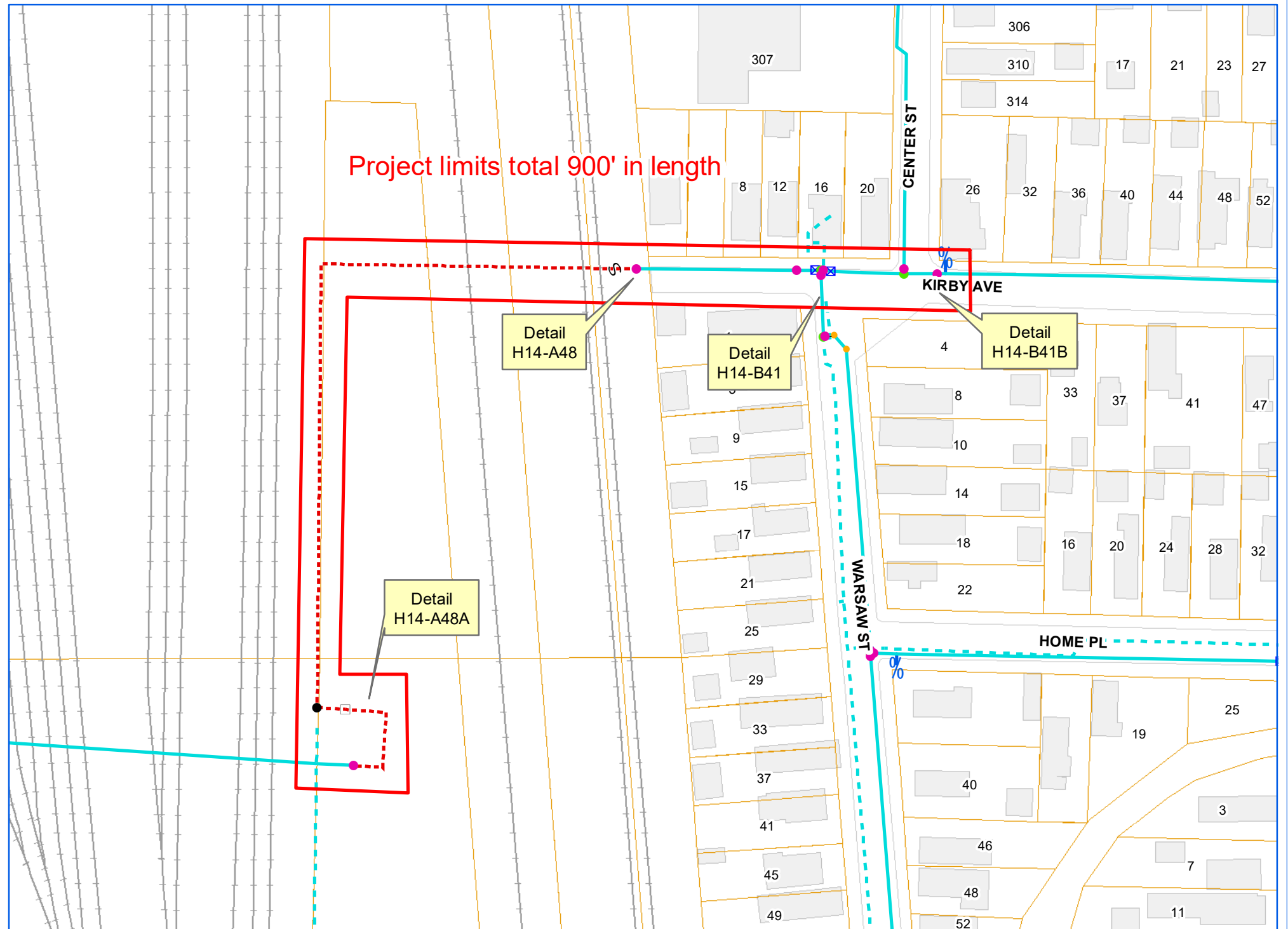
TOWN OF HAMBURG
ELLSWORTH AVE. FROM ONTARIO AVE. TO ADAMS ST.
ADAMS ST. FROM ELLSWORTH AVE. TO PARK AVE.
ONTARIO AVE. FROM ELLSWORTH AVE. TO GARFIELD AVE.
LYTH RD. FROM WILLET RD. TO DEAD-END
NASH RD. FROM VAN PEYMA RD. TO CAMP RD.



Project limits total 750' in length



Project limits total 900' in length

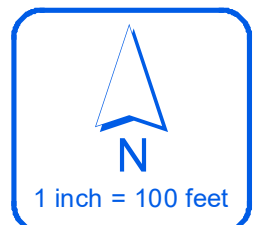


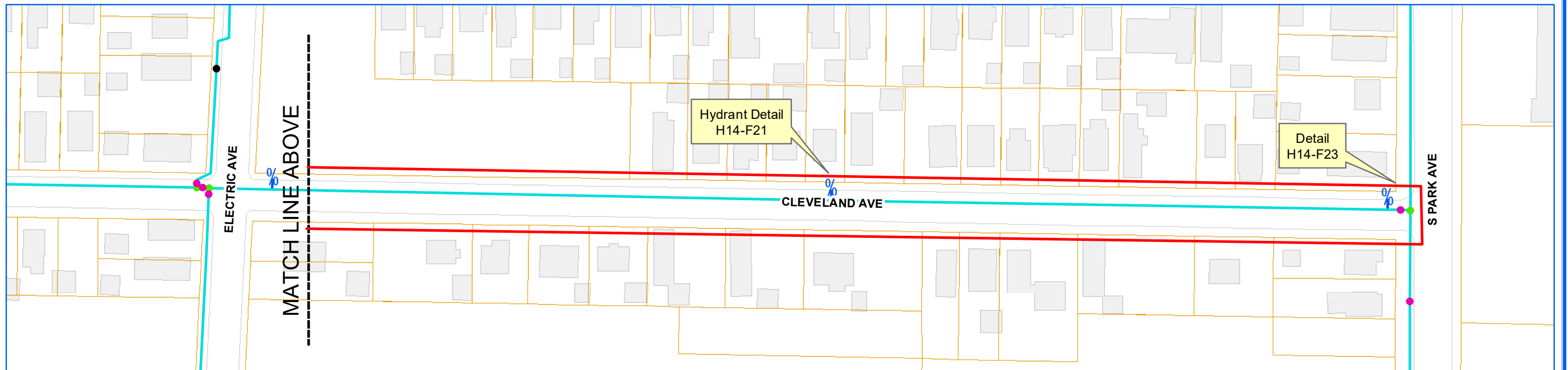
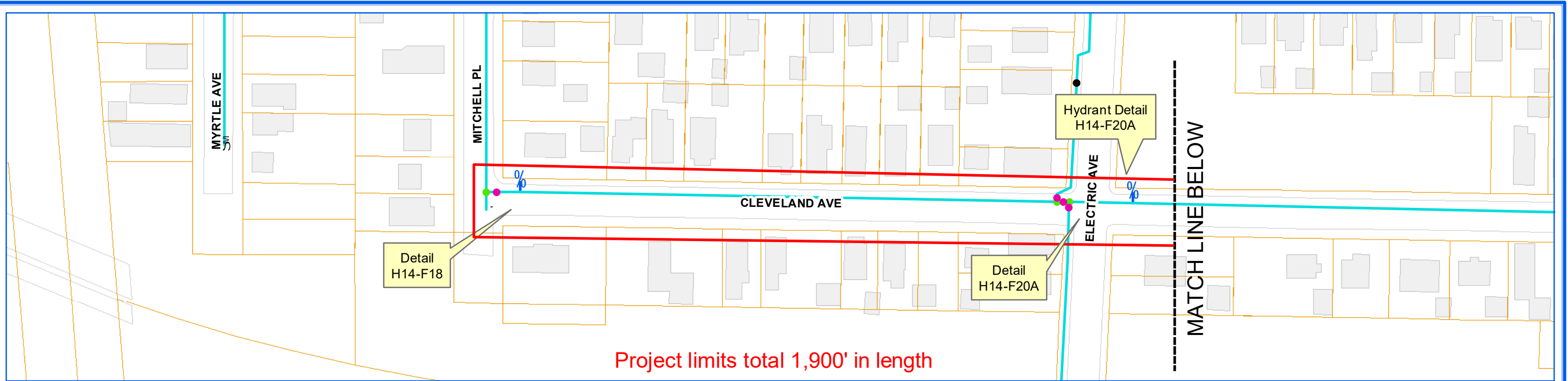
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY

CITY OF LACKAWANNA
ROLAND AVE. FROM MYRTLE AVE. TO S. PARK AVE.
MYRTLE AVE. FROM MILNOR AVE. TO DEAD-END
MILNOR AVE FROM MYRTLE AVE. TO TRELLA PL.
TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
CLEVELAND AVE. FROM MITCHELL PL. TO S. PARK AVE.
KIRBY AVE. FROM CENTER ST. PAST DEAD-END TO BEHIND HO. #33 WARSAW ST.
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TOWN OF HAMBURG
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LYTH RD. FROM WILLET RD. TO DEAD-END
NASH RD. FROM VAN PEYMA RD. TO CAMP RD.





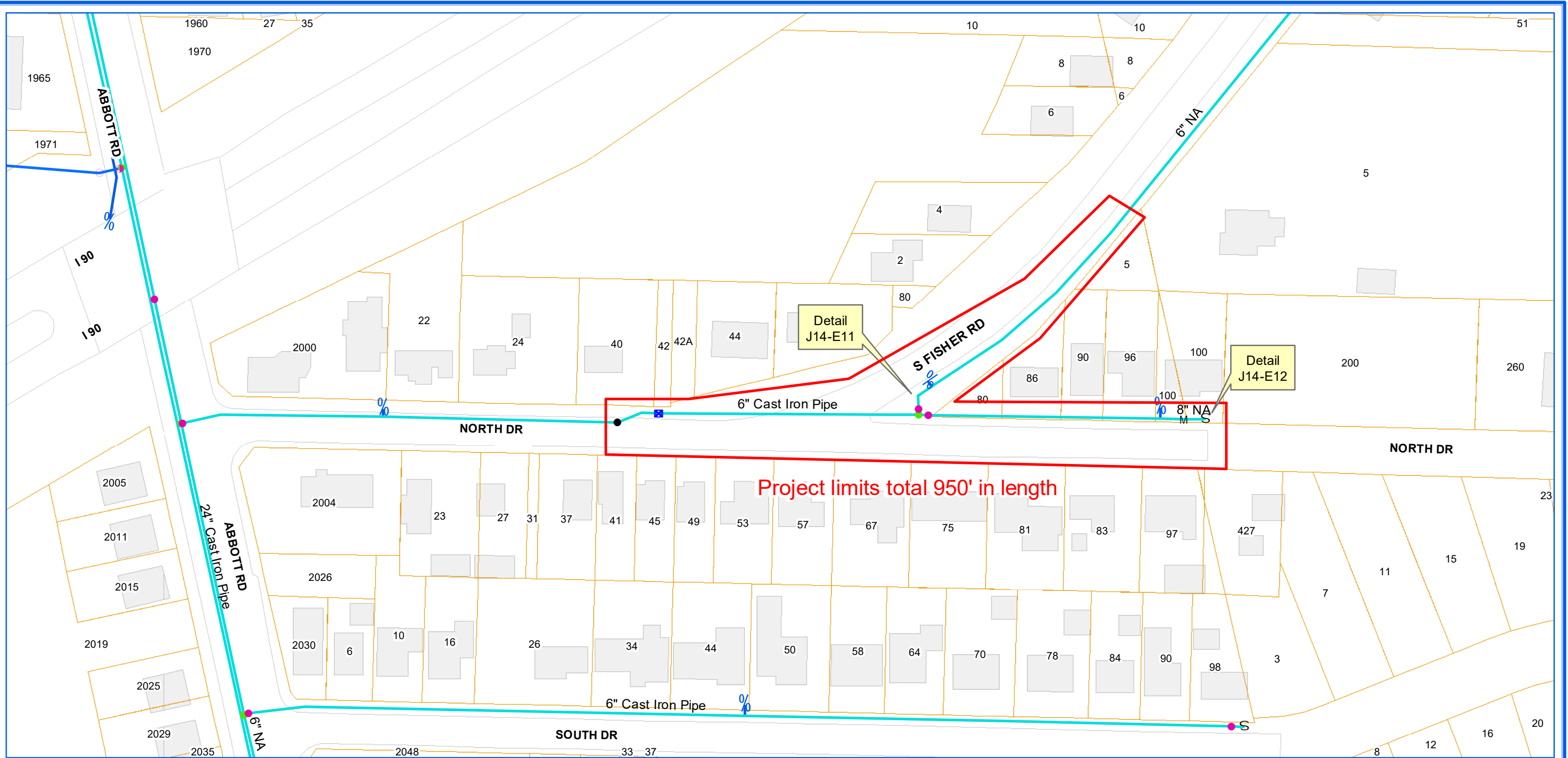
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY

CITY OF LACKAWANNA
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 MILNOR AVE FROM MYRTLE AVE. TO TRELLA PL.
 TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
 CLEVELAND AVE. FROM MITCHELL PL. TO S. PARK AVE.
 KIRBY AVE. FROM CENTER ST. PAST DEAD-END TO BEHIND HO. #33 WARSAW ST.
 NORTH DR. FROM 40 NORTH RD. TO DEAD-END
 S. FISHER RD. FROM NORTH RD. TO 4 S. FISHER RD.

TOWN OF HAMBURG
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 ADAMS ST. FROM ELLSWORTH AVE. TO PARK AVE.
 ONTARIO AVE. FROM ELLSWORTH AVE. TO GARFIELD AVE.
 LYTH RD. FROM WILLET RD. TO DEAD-END
 NASH RD. FROM VAN PEYMA RD. TO CAMP RD.



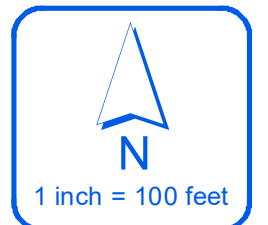


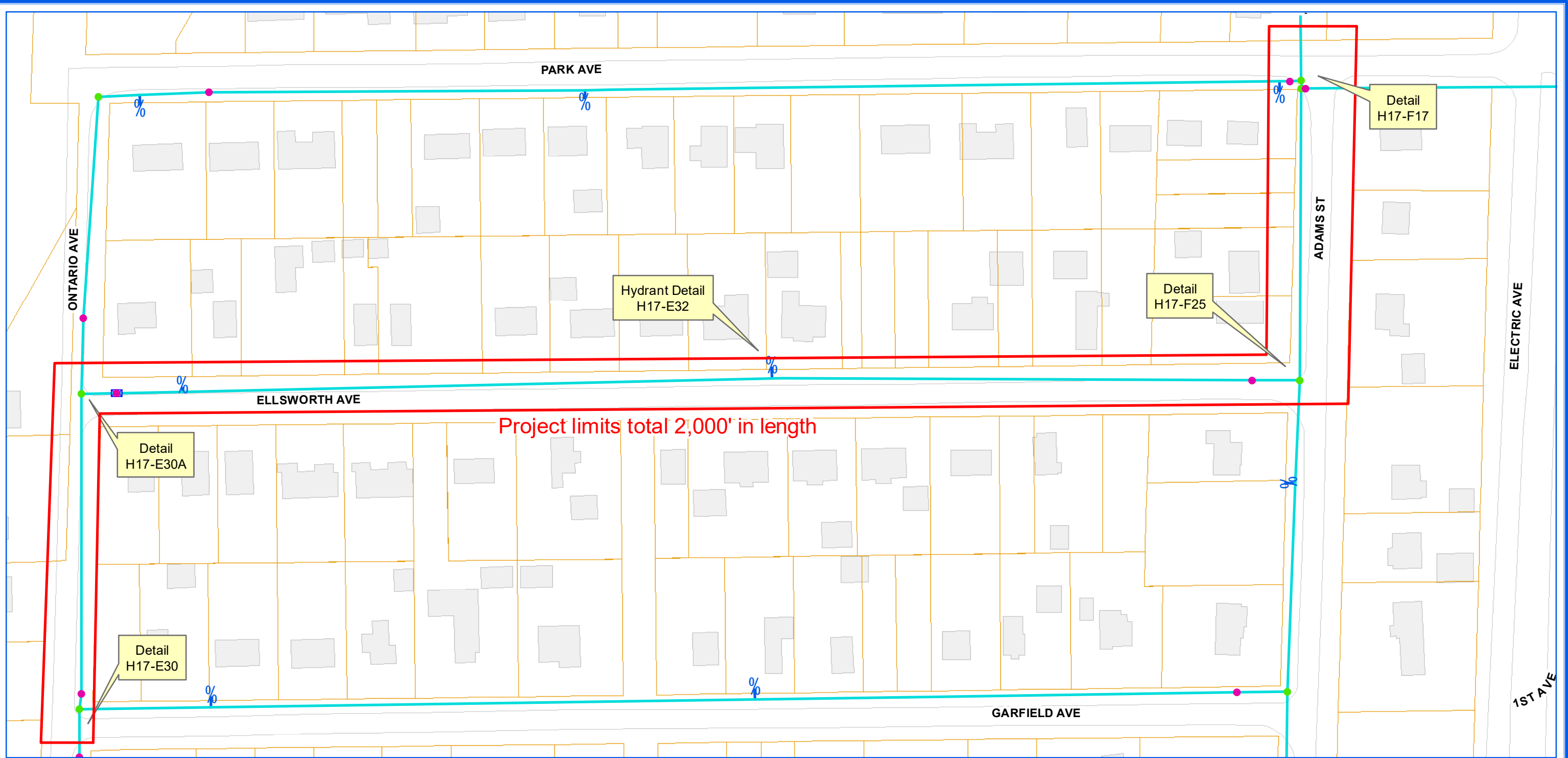
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY

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TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
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NORTH DR. FROM 40 NORTH RD. TO DEAD-END
S. FISHER RD. FROM NORTH RD. TO 4 S. FISHER RD.

TOWN OF HAMBURG
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ADAMS ST. FROM ELLSWORTH AVE. TO PARK AVE.
ONTARIO AVE. FROM ELLSWORTH AVE. TO GARFIELD AVE.
LYTH RD. FROM WILLET RD. TO DEAD-END
NASH RD. FROM VAN PEYMA RD. TO CAMP RD.



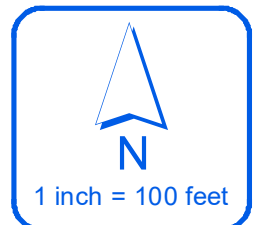


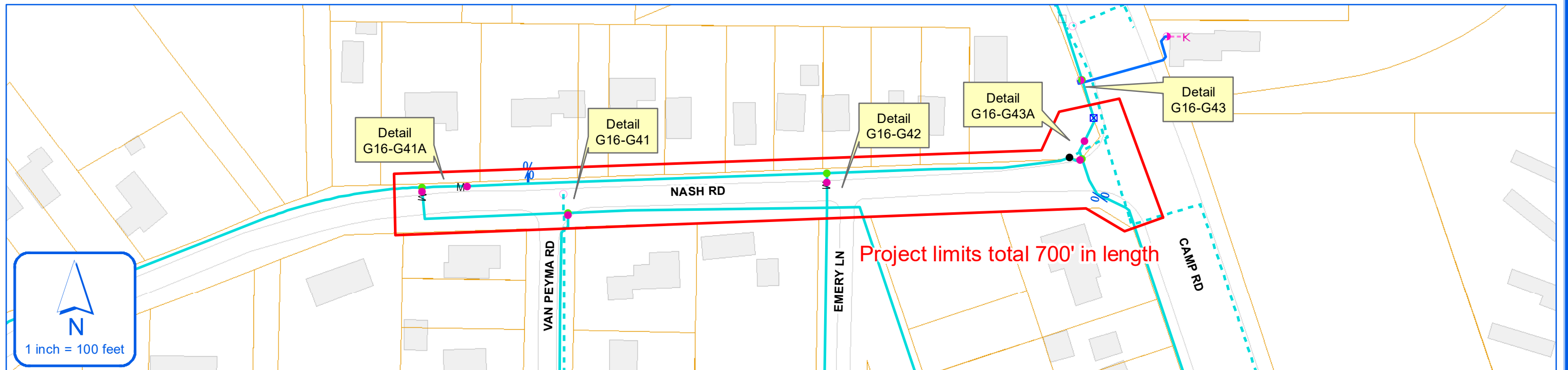
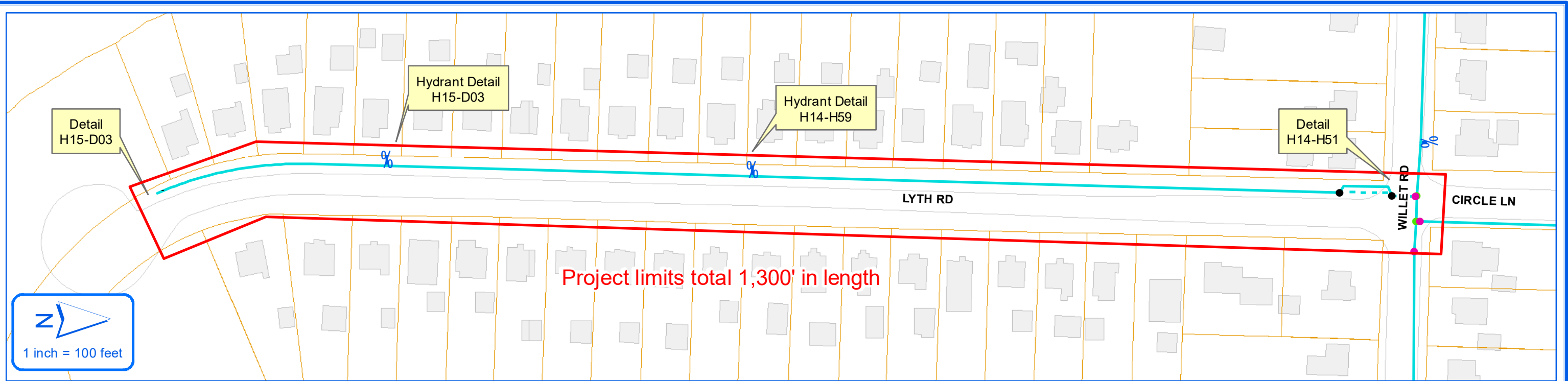
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY

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TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
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ONTARIO AVE. FROM ELLSWORTH AVE. TO GARFIELD AVE.
LYTH RD. FROM WILLET RD. TO DEAD-END
NASH RD. FROM VAN PEYMA RD. TO CAMP RD.






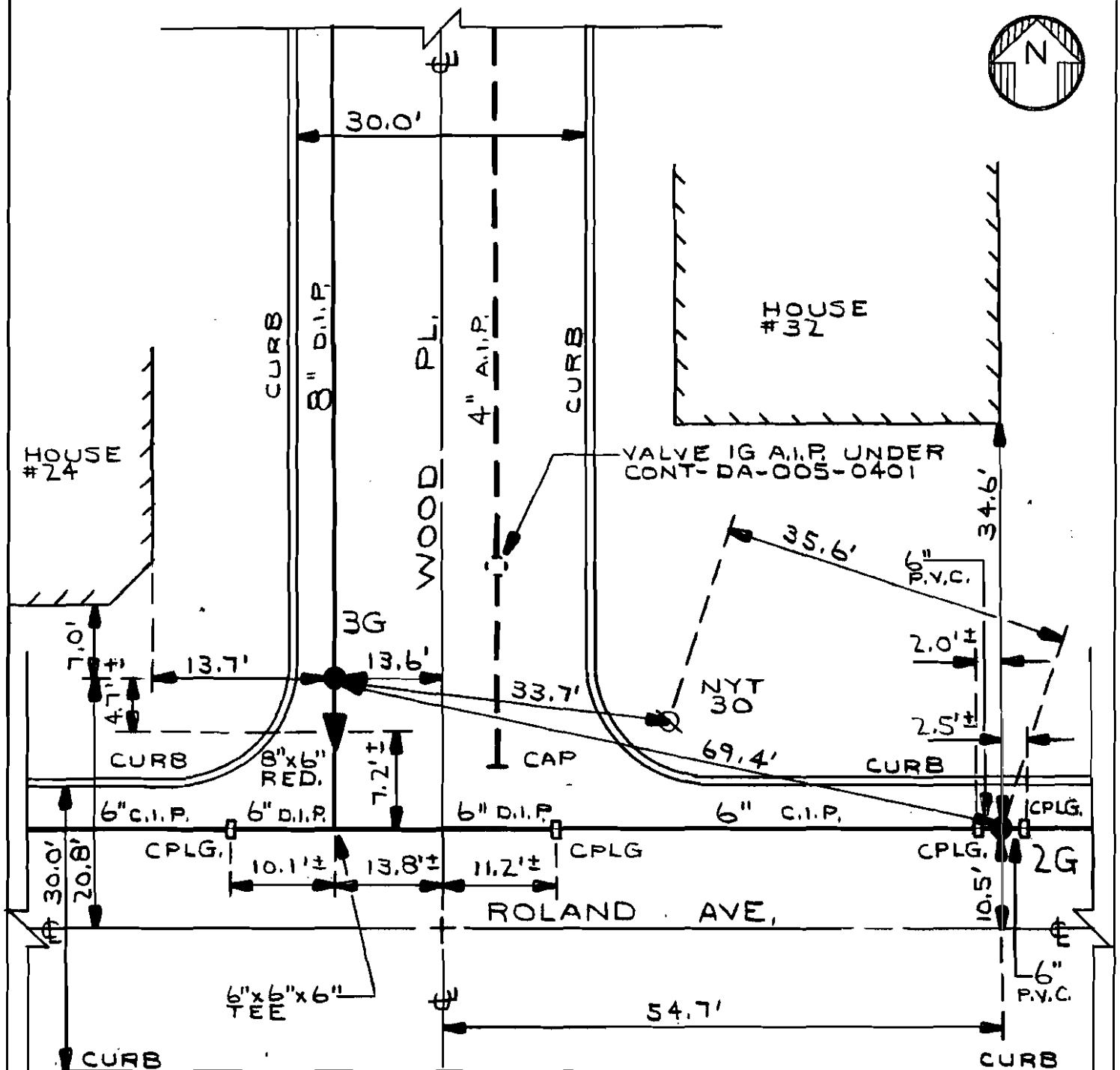
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
WATERLINE REPLACEMENT PROJECT
CONTRACT "D"
CITY OF LACKAWANNA, NY & TOWN OF HAMBURG, NY

CITY OF LACKAWANNA
ROLAND AVE. FROM MYRTLE AVE. TO S. PARK AVE.
MYRTLE AVE. FROM MILNORE AVE. TO DEAD-END
MILNOR AVE. FROM MYRTLE AVE. TO TRELLA PL.
TRELLA PL. FROM MILNOR AVE. TO PIGGENS ALLEY
CLEVELAND AVE. FROM MITCHELL PL. TO S. PARK AVE.
KIRBY AVE. FROM CENTER ST. PAST DEAD-END TO BEHIND HO. #33 WARSAW ST.
NORTH DR. FROM 40 NORTH RD. TO DEAD-END
S. FISHER RD. FROM NORTH RD. TO 4 S. FISHER RD.

TOWN OF HAMBURG
ELLSWORTH AVE. FROM ONTARIO AVE. TO ADAMS ST.
ADAMS ST. FROM ELLSWORTH AVE. TO PARK AVE.
ONTARIO AVE. FROM ELLSWORTH AVE. TO GARFIELD AVE.
LYTH RD. FROM WILLET RD. TO DEAD-END
NASH RD. FROM VAN PEYMA RD. TO CAMP RD.

<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">E</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">C</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">W</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div> </div>	ERIE COUNTY  WATER AUTHORITY BUFFALO, NEW YORK	REV. DR. D.K.C.	DR.	CITY OF LACKAWANNA E.C.W.A.	H14-F02 DETAIL SHT. NO.
		DATE: 10-24-08	DATE:		200400490 CURRENT PROJECT NO.
	FIELD	OFFICE			



NOTE: ± DIMENSIONS ARE FROM LINE MAINTENANCE & AS-BUILTS, NOT FIELD CHECKED.

CONT-DA-005-0401
LACY-756-0501

H14-FOZ
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. D.K.C. DR.

DATE: 10.17.08 DATE:

FIELD

OFFICE

CITY OF LACKAWANNA

E.C.W.A.

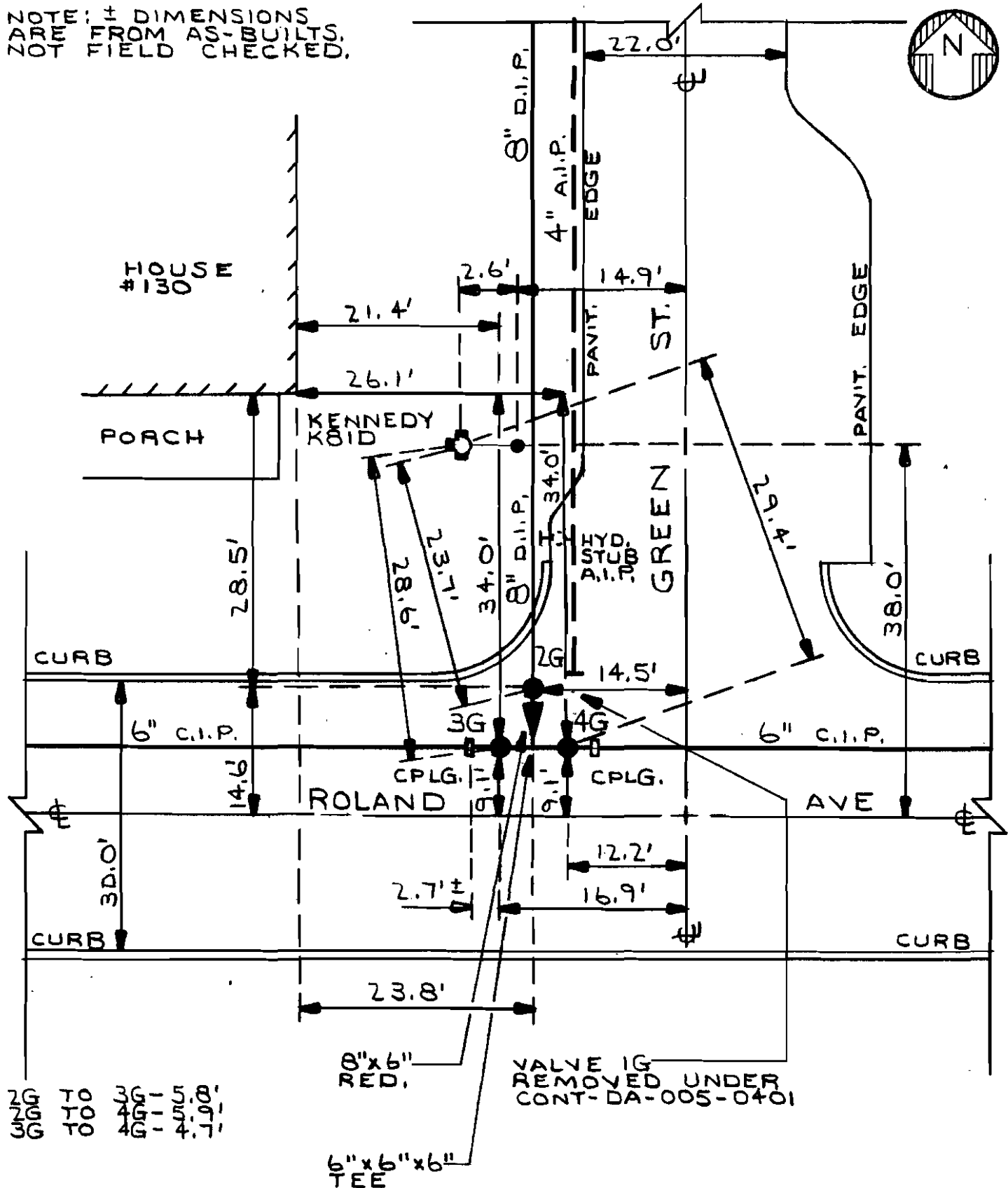
H14-F04A

DETAIL SHT. NO.

200400490

CURRENT PROJECT NO.

NOTE: ± DIMENSIONS
ARE FROM AS-BUILTS.
NOT FIELD CHECKED.



CONT-DA-005-0401
F.B. 343/43
F.B. 19/12

H14-F04A
DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. D.K.C. DR.

DATE: 4.17.07 DATE:

FIELD

OFFICE

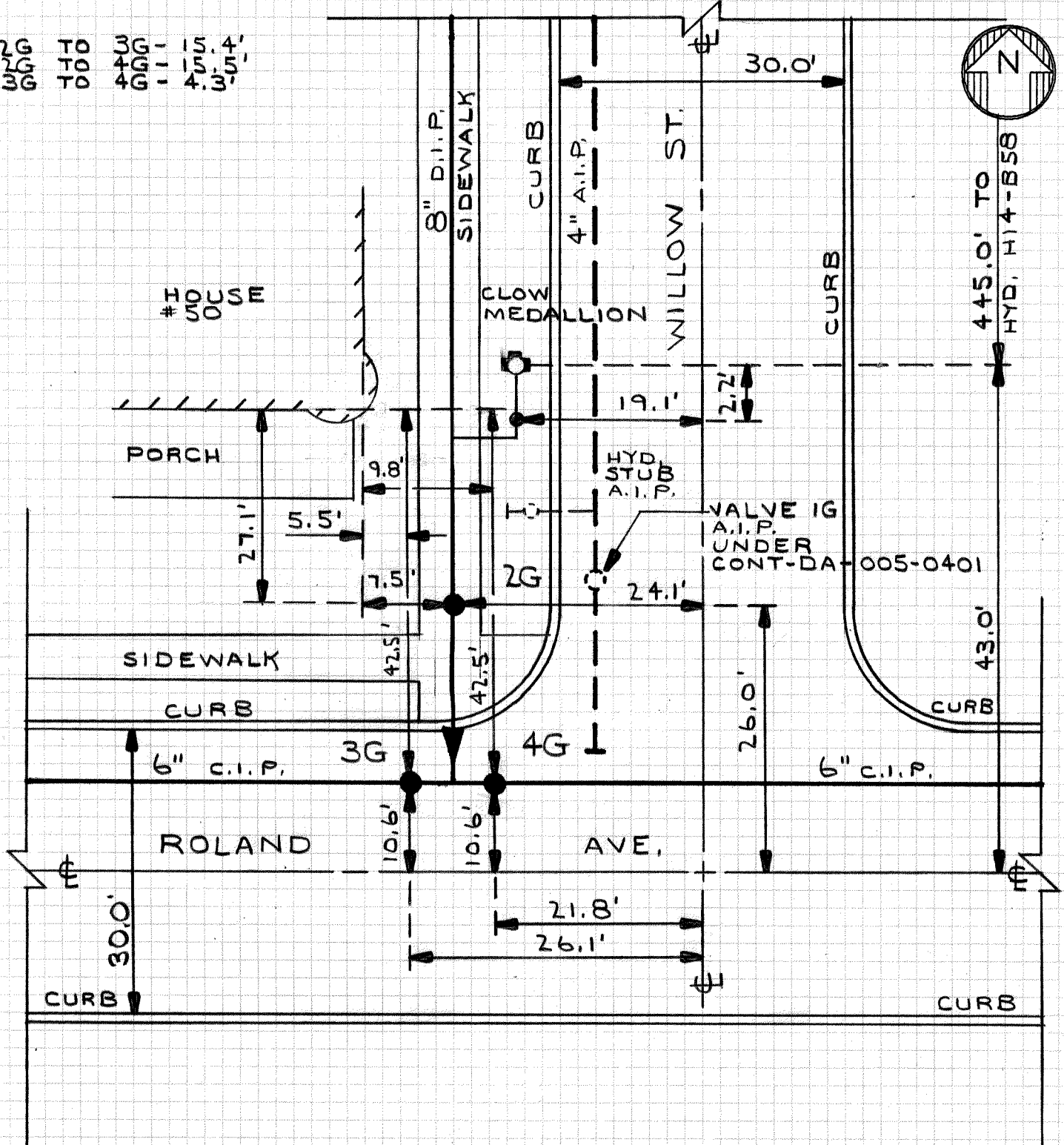
CITY OF LACKAWANNA

E.C.W.A.

H14-F10A
DETAIL SHT. NO.

200400490
CURRENT PROJECT NO.

2G TO 3G - 15.4'
2G TO 4G - 15.5'
3G TO 4G - 4.3'

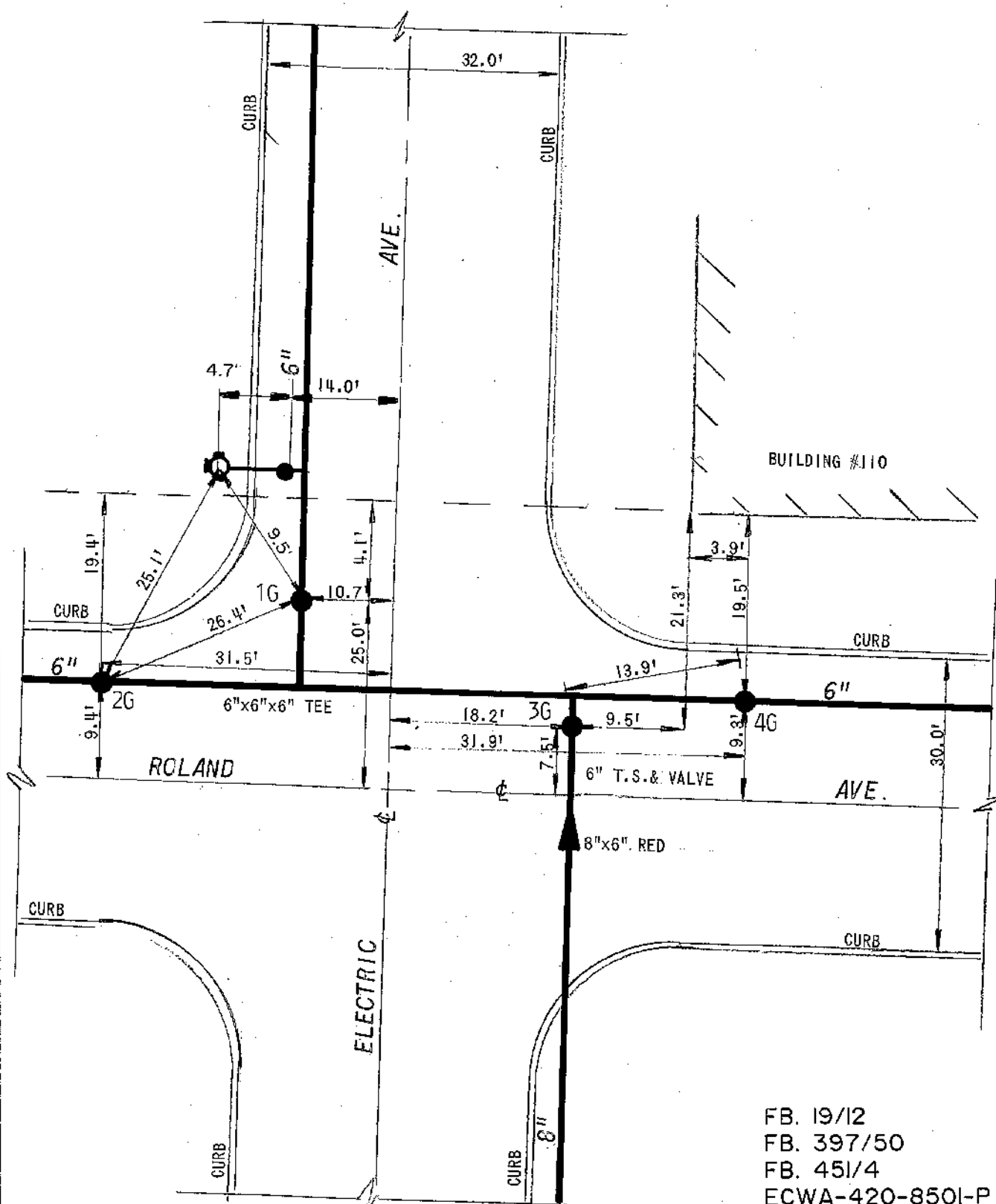


CONT-DA-005-0401

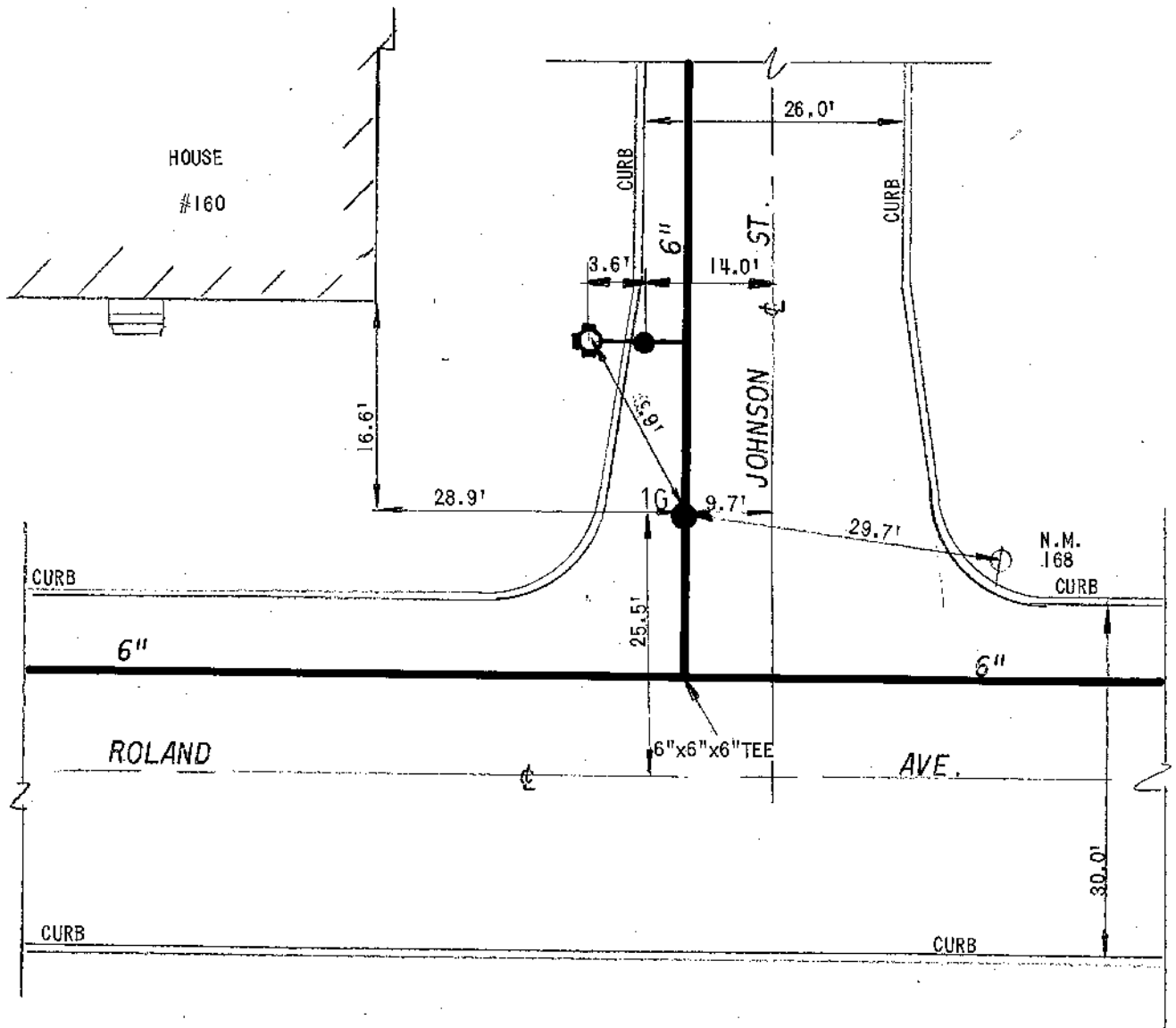
H14-F10A
DETAIL SHT. NO.

MASTER COPY

MASTER COPY



FB. 19/12
FB. 397/50
FB. 451/4
ECWA-420-850I-P



FB.19/12

DETAIL SHEET NO.



ERIE COUNTY 
WATER AUTHORITY
BUFFALO, NEW YORK

DR. BY: J.C.W.

DATE: 6/28/72

SCALE: NONE

CITY OF LACKAWANNA
E.C.W.A.

H14-F13



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.B.B.
DATE: 03/30/07
FIELD

REVISED
DR.
DATE:
OFFICE

CITY OF LACKAWANNA

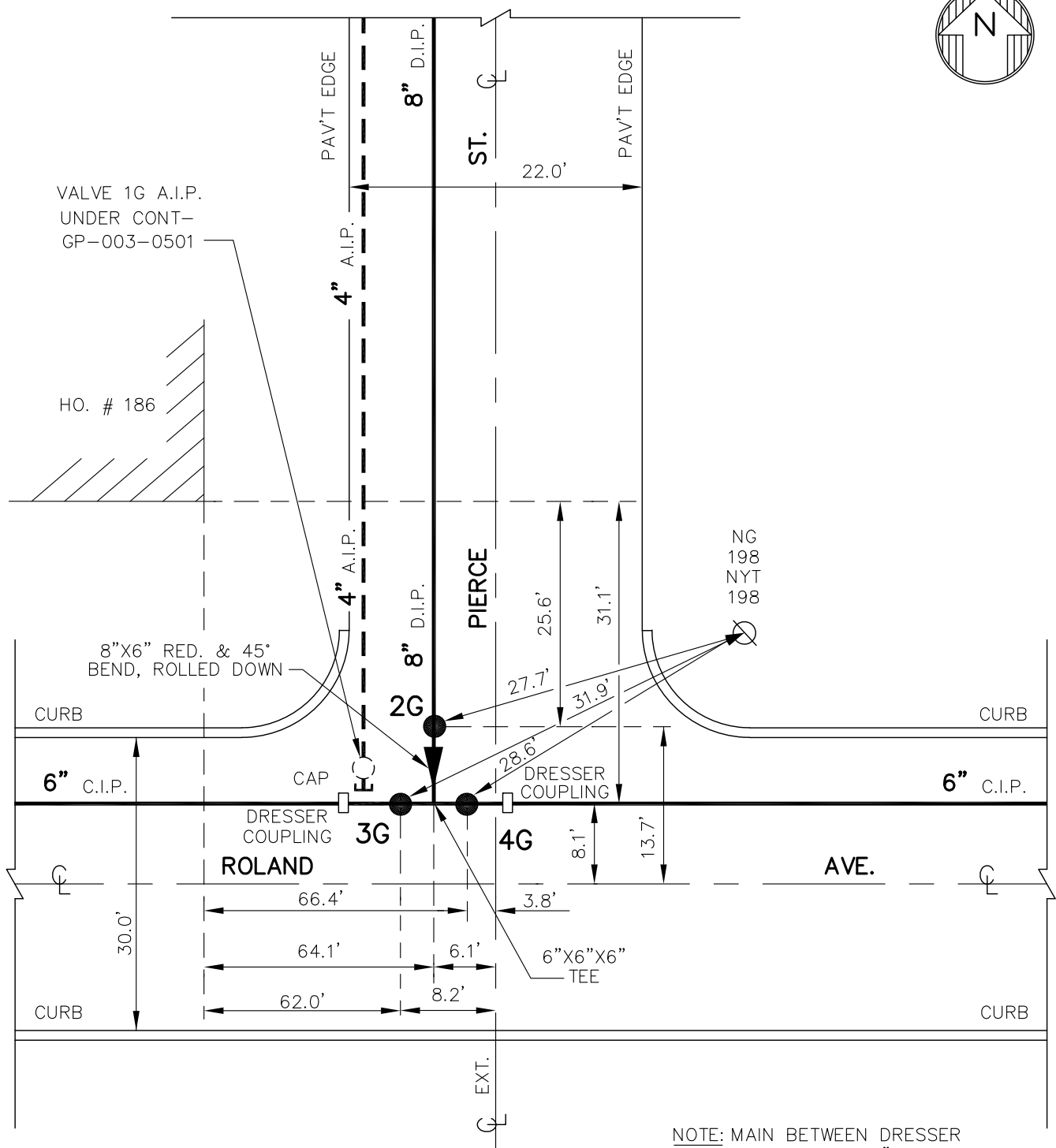
E.C.W.A.

H14-F14

DETAIL SHT. NO.

200500155

CURRENT PROJECT NO.



NOTE: MAIN BETWEEN DRESSER
COUPLINGS IS 6" DUCTILE IRON.

2G TO 3G = 6.0'
2G TO 4G = 6.1'
3G TO 4G = 4.4'

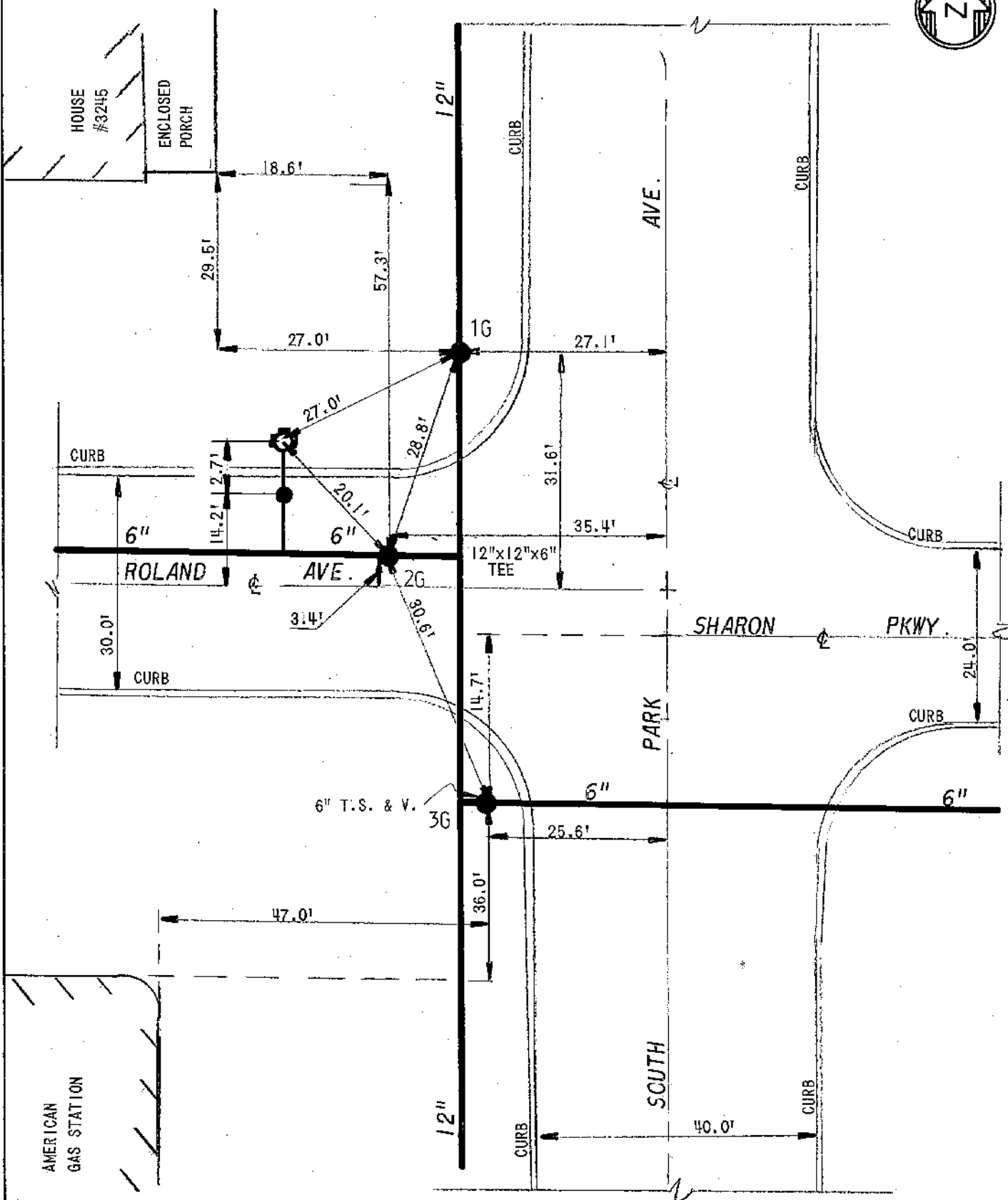
NOTE: DETAIL DRAWN ON
CAD SYSTEM.

CONT-GP-003-0501
F.B. 19/11

H14-F14

DETAIL SHT. NO.

MASTER COPY

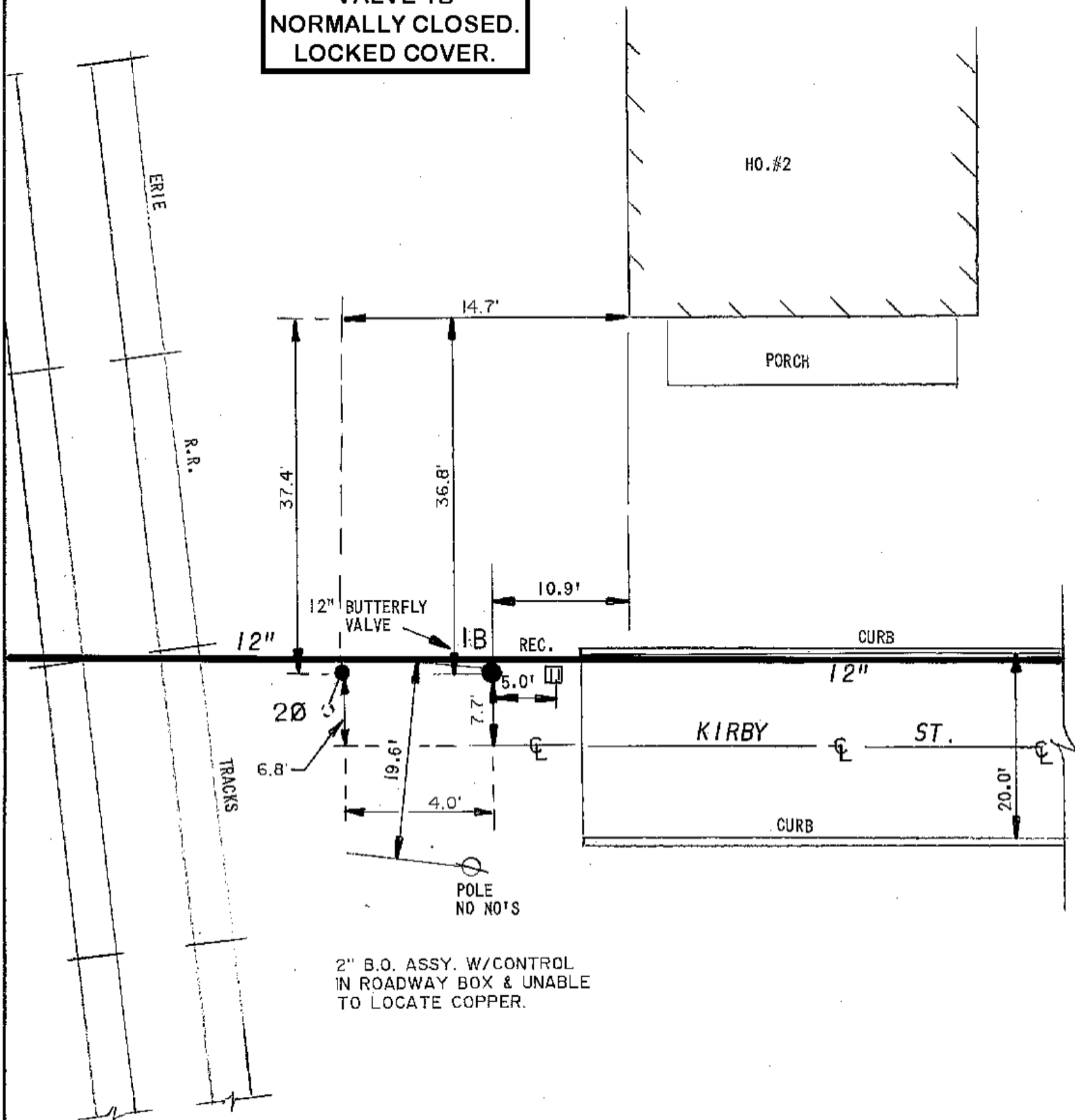


FB.19/11

DETAIL SHEET NO.

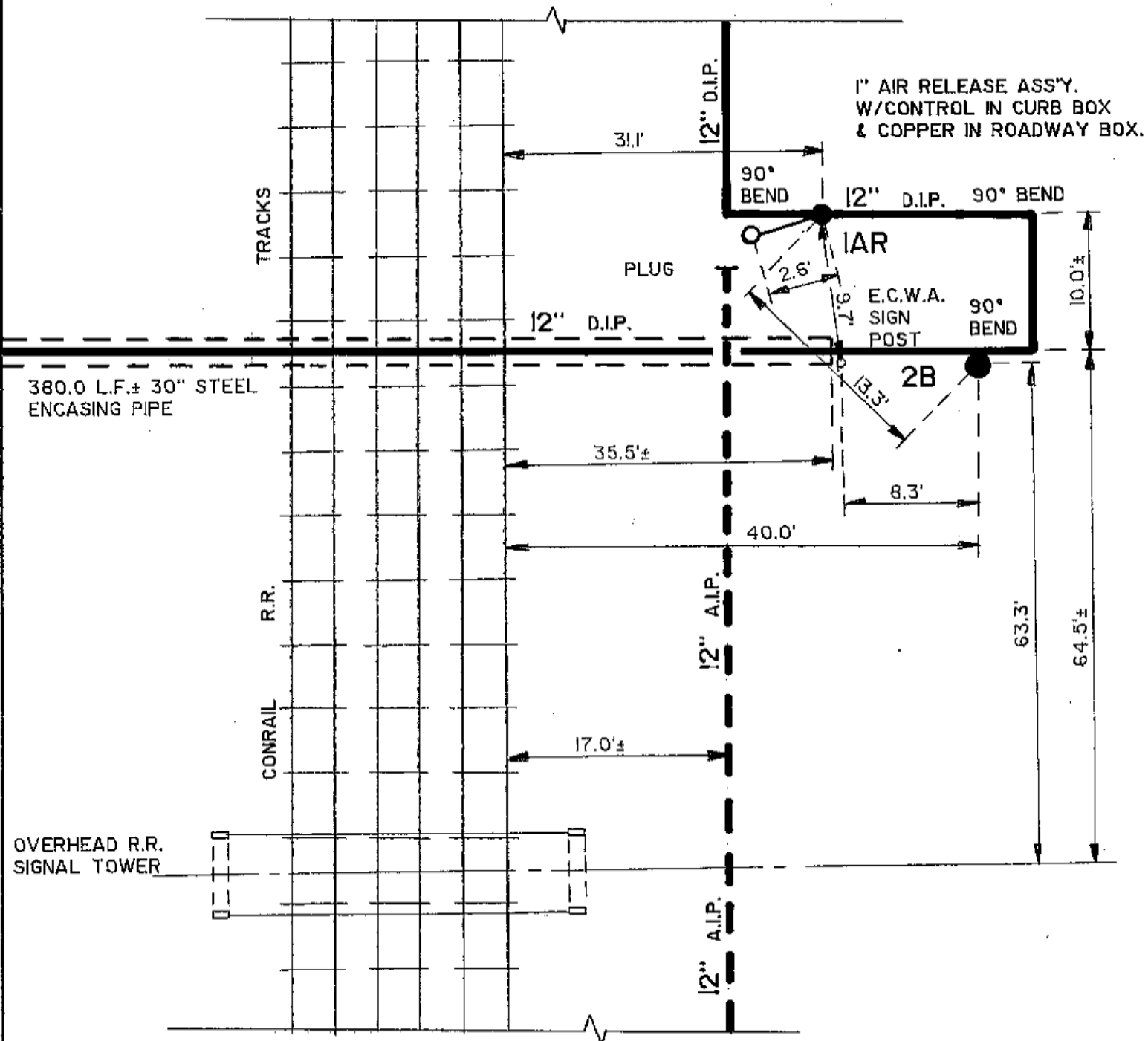


VALVE 1B
NORMALLY CLOSED.
LOCKED COVER.



2" B.O. ASSY. W/CONTROL
IN ROADWAY BOX & UNABLE
TO LOCATE COPPER.

VALVE 2B
NORMALLY CLOSED.
LOCKED COVER.



EC-3536
LACY-726-820I-PD



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. D.K.C. DR.

DATE: 10.25.05 DATE:

FIELD

OFFICE

CITY OF LACKAWANNA

E.C.W.A

H14-B41
DETAIL SHT. NO.

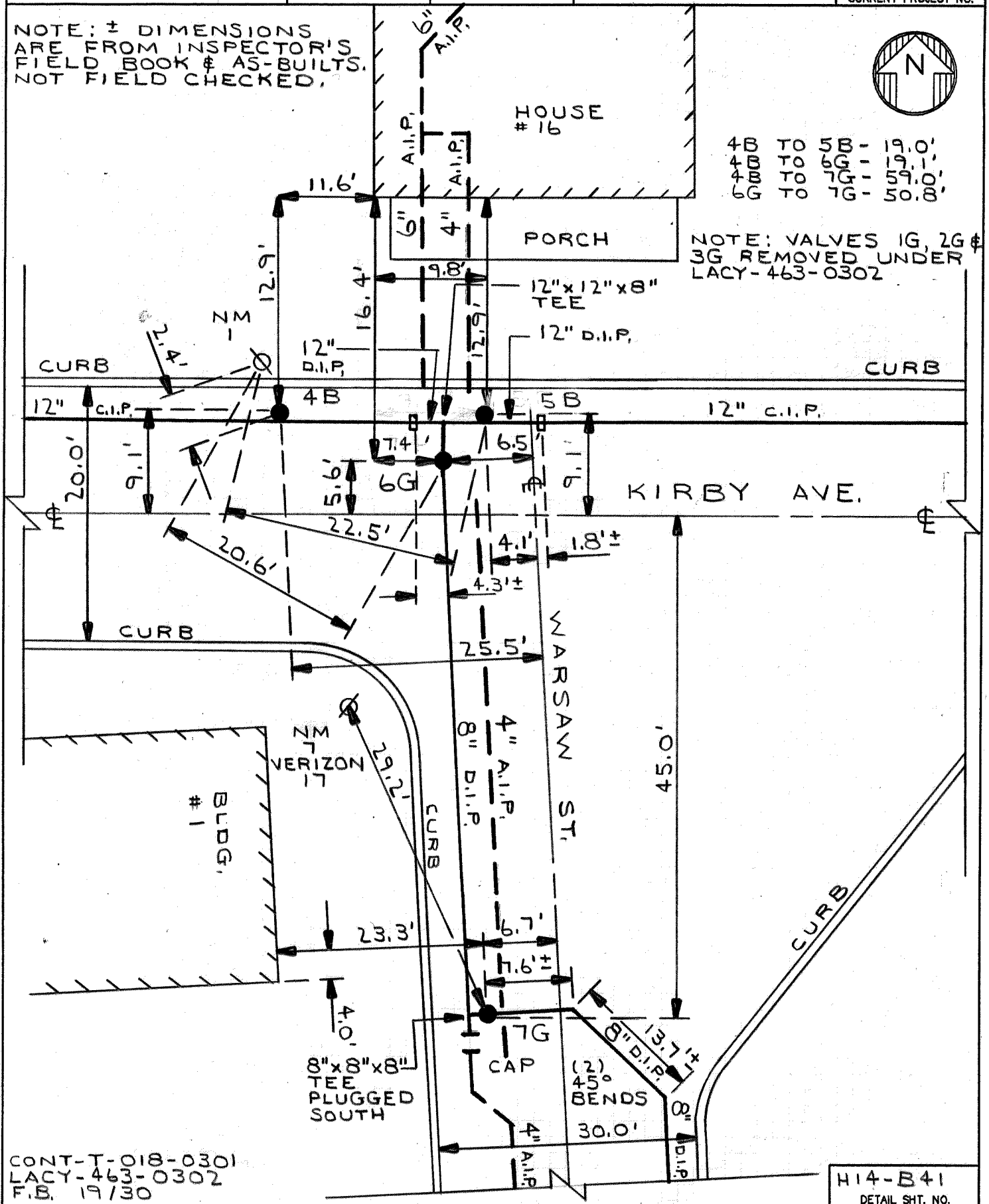
200300215
CURRENT PROJECT NO.

NOTE: ± DIMENSIONS
ARE FROM INSPECTOR'S
FIELD BOOK & AS-BUILTS.
NOT FIELD CHECKED.



4B TO 5B - 19.0'
4B TO 6G - 19.1'
4B TO 7G - 59.0'
6G TO 7G - 50.8'

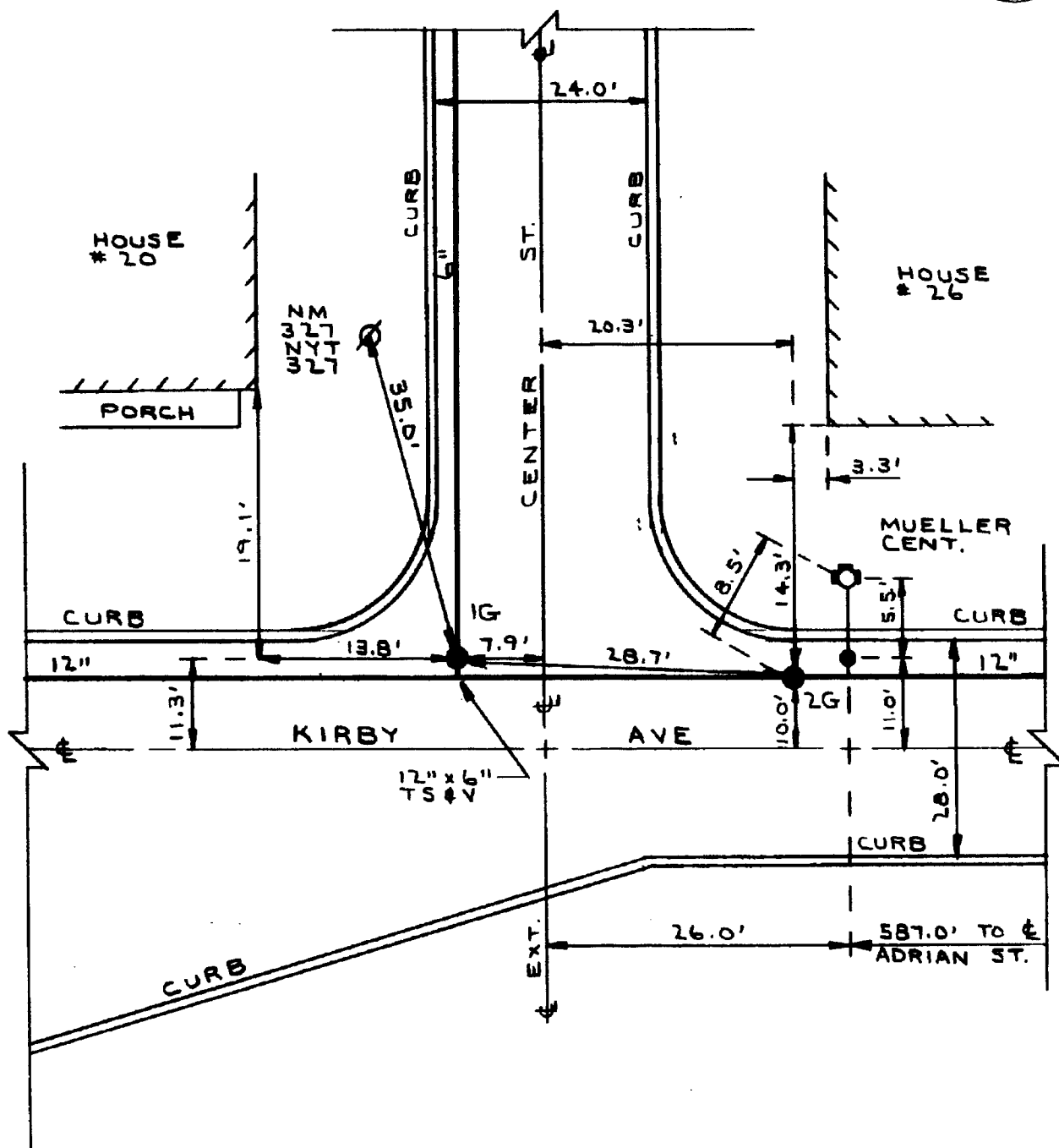
NOTE: VALVES 1G, 2G &
3G REMOVED UNDER
LACY-463-0302




CONT-T-018-0301
LACY-463-0302
F.B. 19/30

H14-B41
DETAIL SHT. NO.

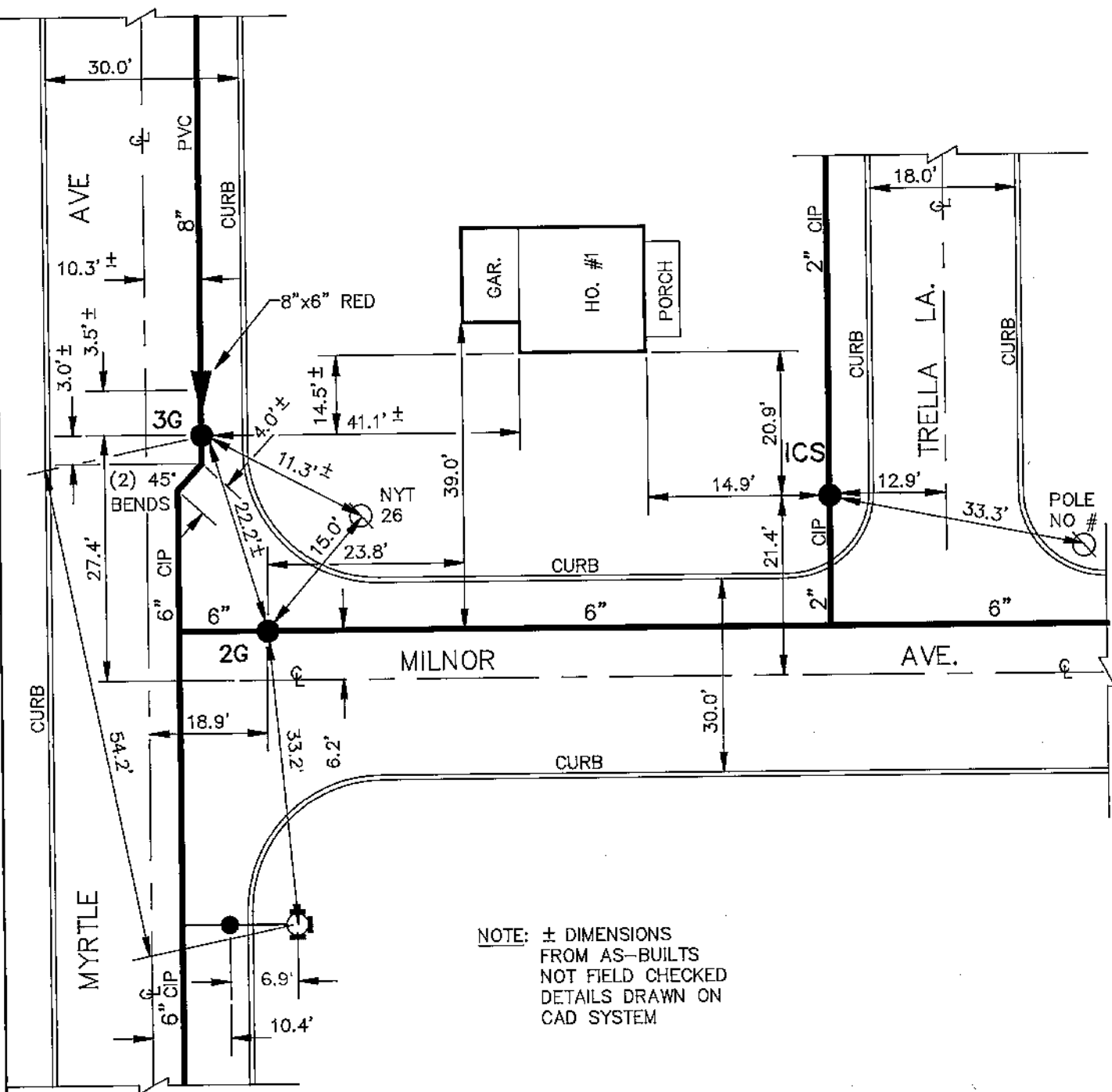
MASTER COPY



LACY-463-9501-P
LACY-159-9102-P

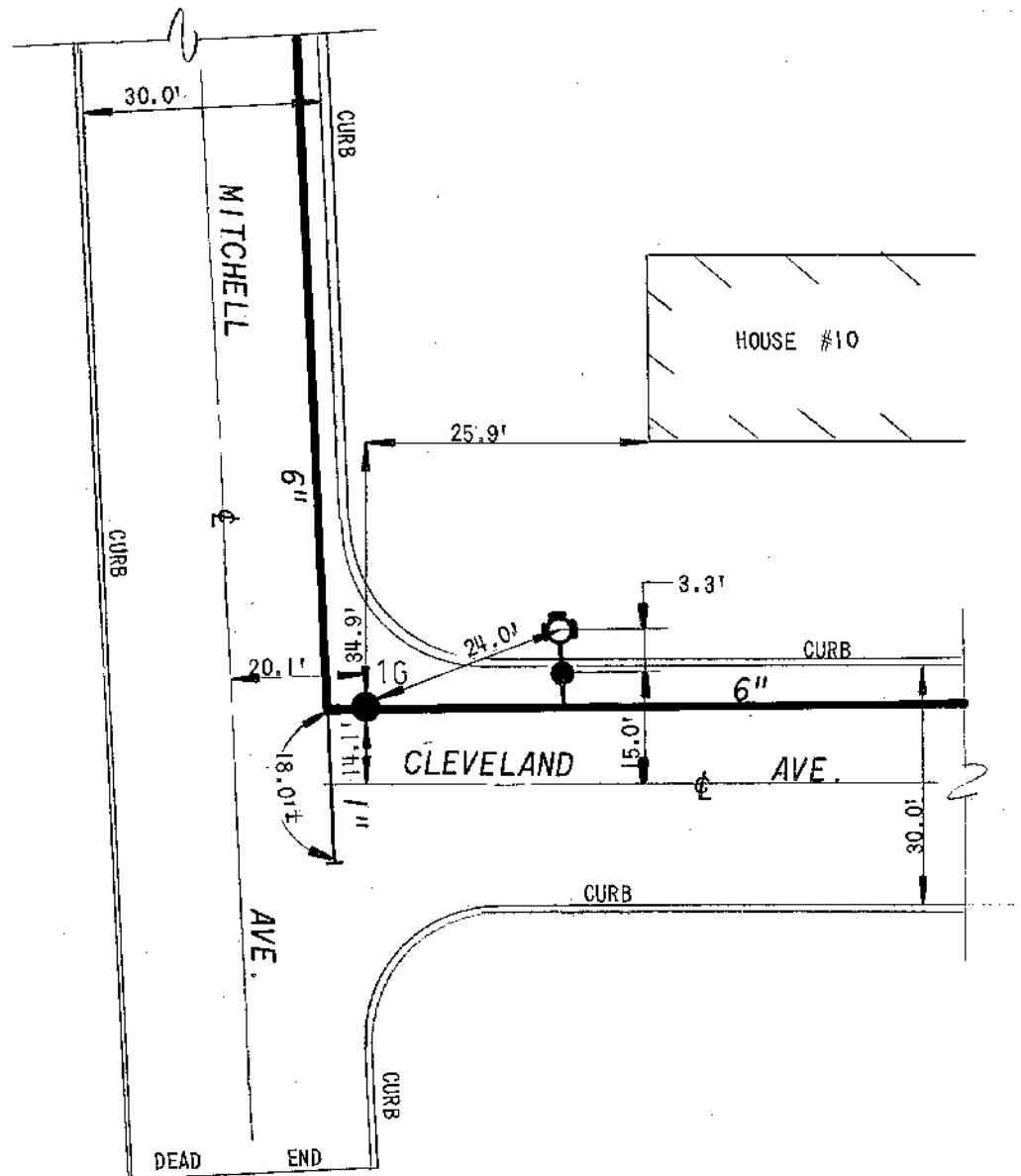
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> EC WA </div>	ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK		REVISED DR. D.K.C.	DR. D.K.C.	CITY OF LACKAWANNA EC.W.A.	H14-B41B
			DATE: 10-3-96	DATE: 2-20-97		DETAIL SHT. NO.
			FIELD	OFFICE		N.T.S.

MASTER COPY



NOTE: ± DIMENSIONS
FROM AS-BUILTS
NOT FIELD CHECKED
DETAILS DRAWN ON
CAD SYSTEM

FB. 451/4
CONT-NC-7-860I-PD
ECWA-420-850I-P



FB. 19/7

DETAIL SHEET NO.

H14-F18

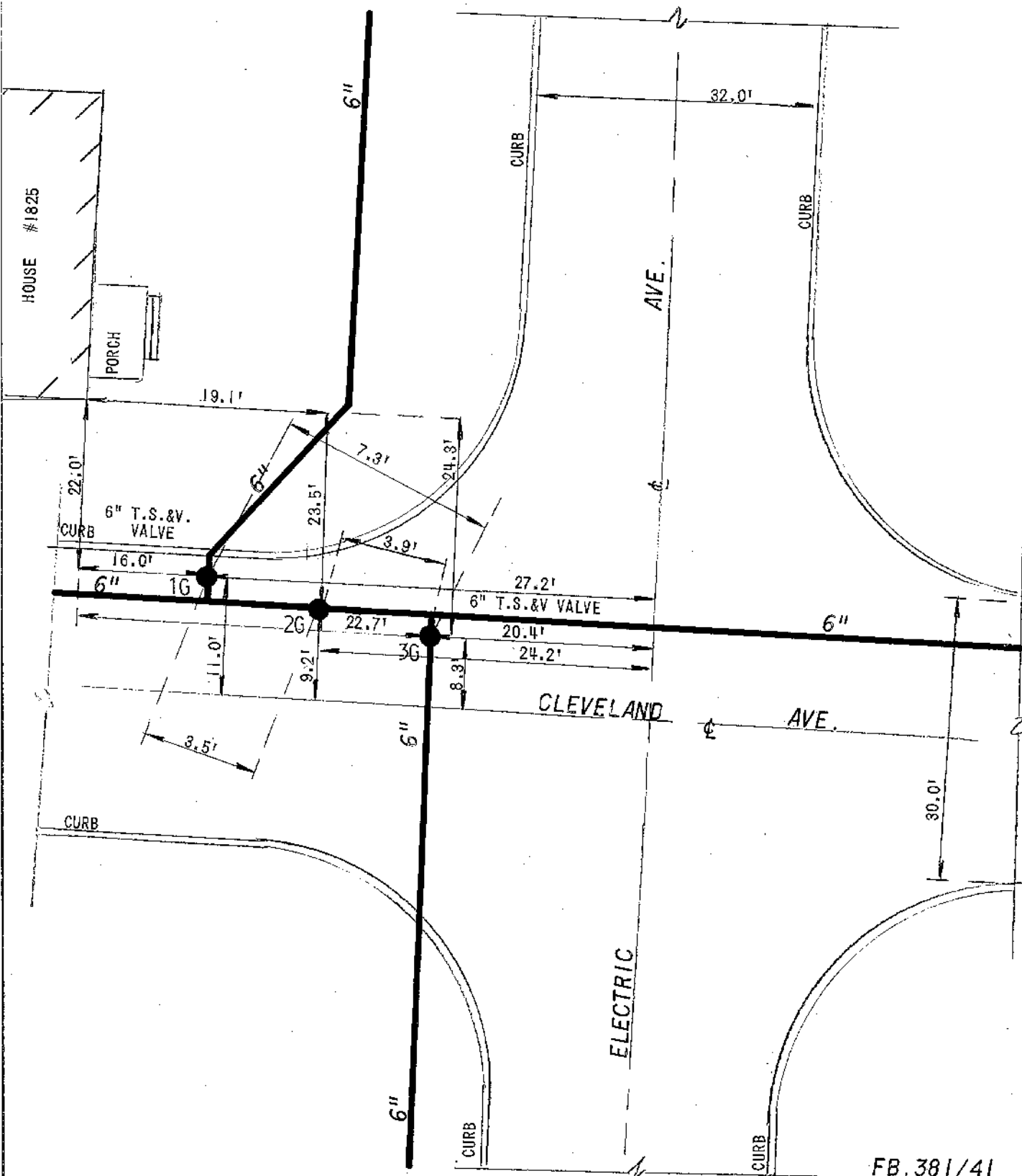
DR. BY: P.L.R.

DATE: 6/28/72

SCALE: NONE

CITY OF LACKAWANNA
E.C.W.A.

E. C. W. A.



FB. 381/41
FB. 311/23
DETAIL SHEET NO.

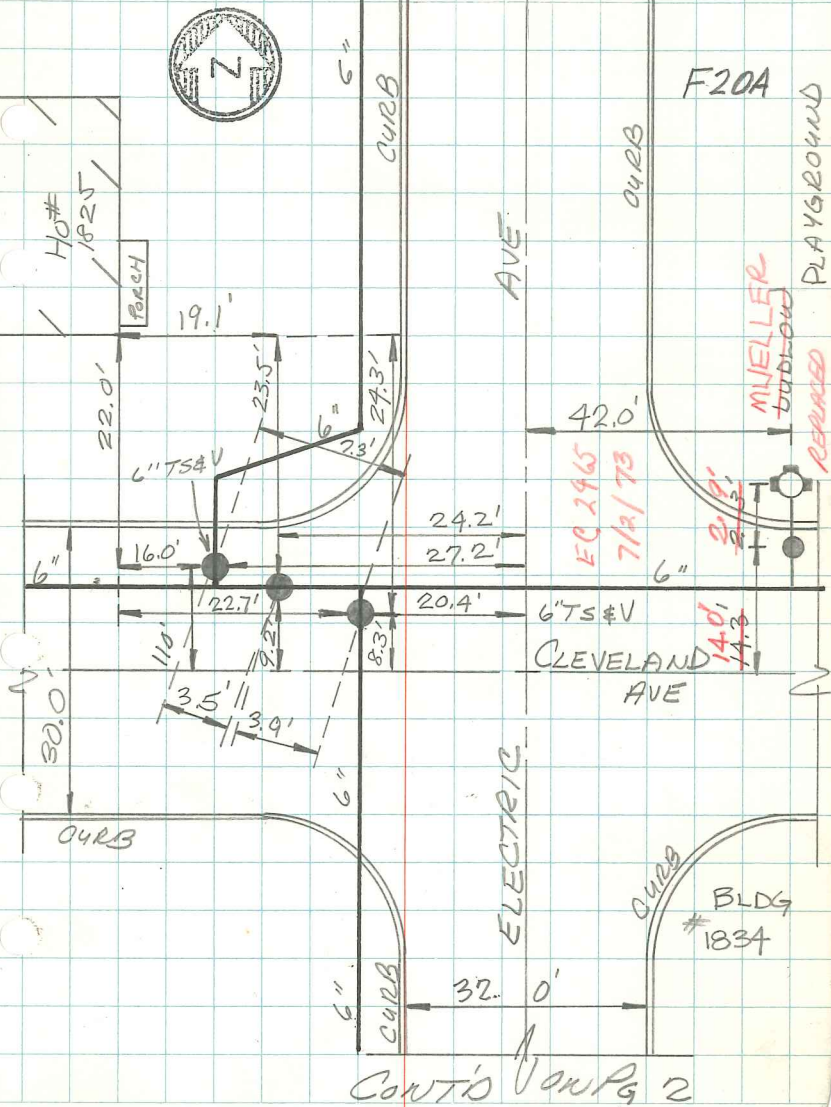
PG3 ELECTRIC AVE
H14 CITY OF LACKA
ECWA

FB 311/23
FB 381/41

DLR & J.C.W

4-10-72

Cont'd Page 4



FB-451/4
EC-3785
ECWA-420-8501-P

PG1 CLEVELAND AVE
H14 CITY OF LACKA
ECWA
PLR&NCW

5-3-72

CONT'D ON ELECTRIC AVE

AVE

HO #122

~~24" LOW~~
KENNEDY KB1A

F21

HYD. REPL. UNDER
ECWA-420-8501-P
1985

CURB

30.0'

~~618.0' 562.0'~~

CURB

CLEVELAND



H14-F23

KENNEDY K11

6"

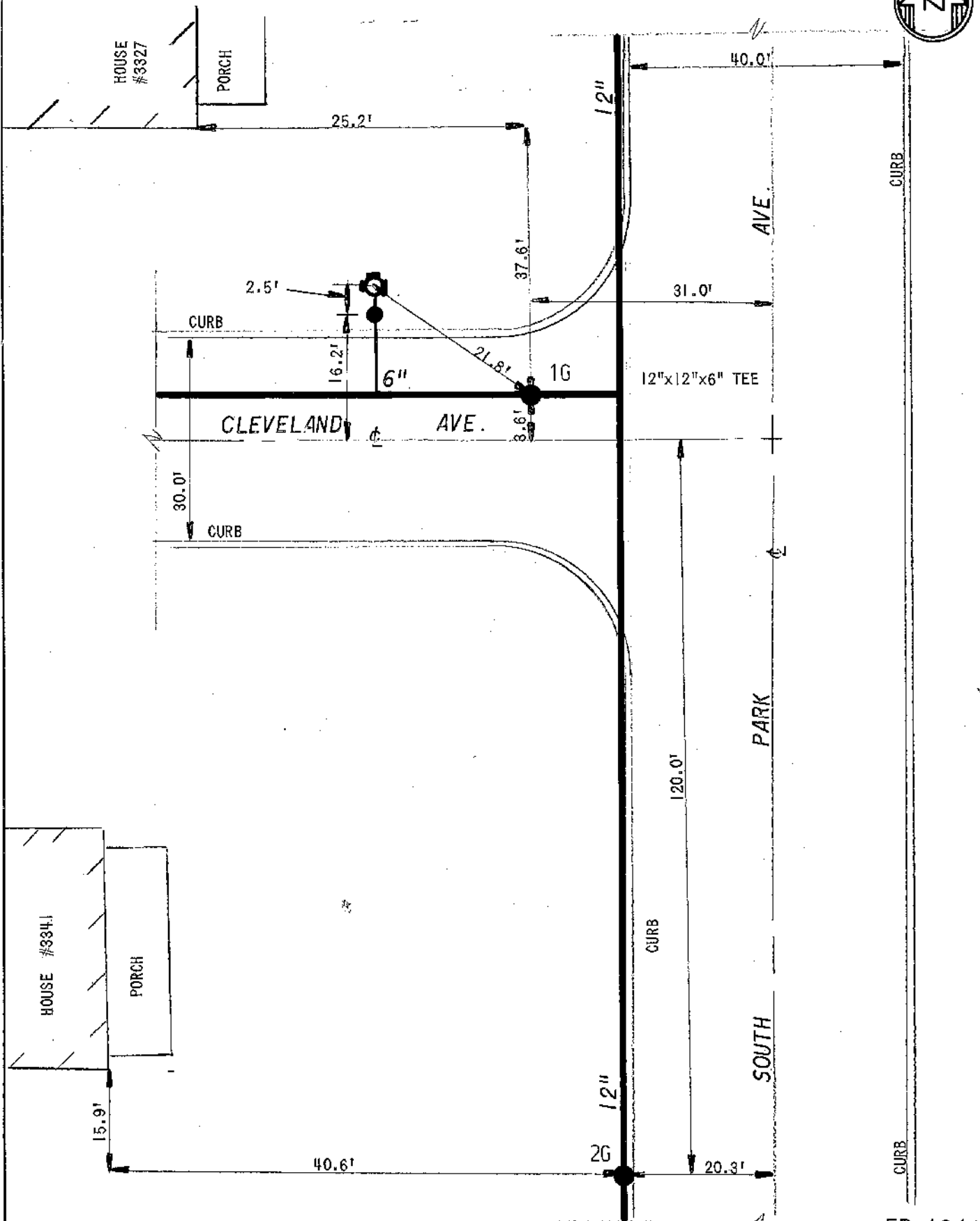
So.

PARK

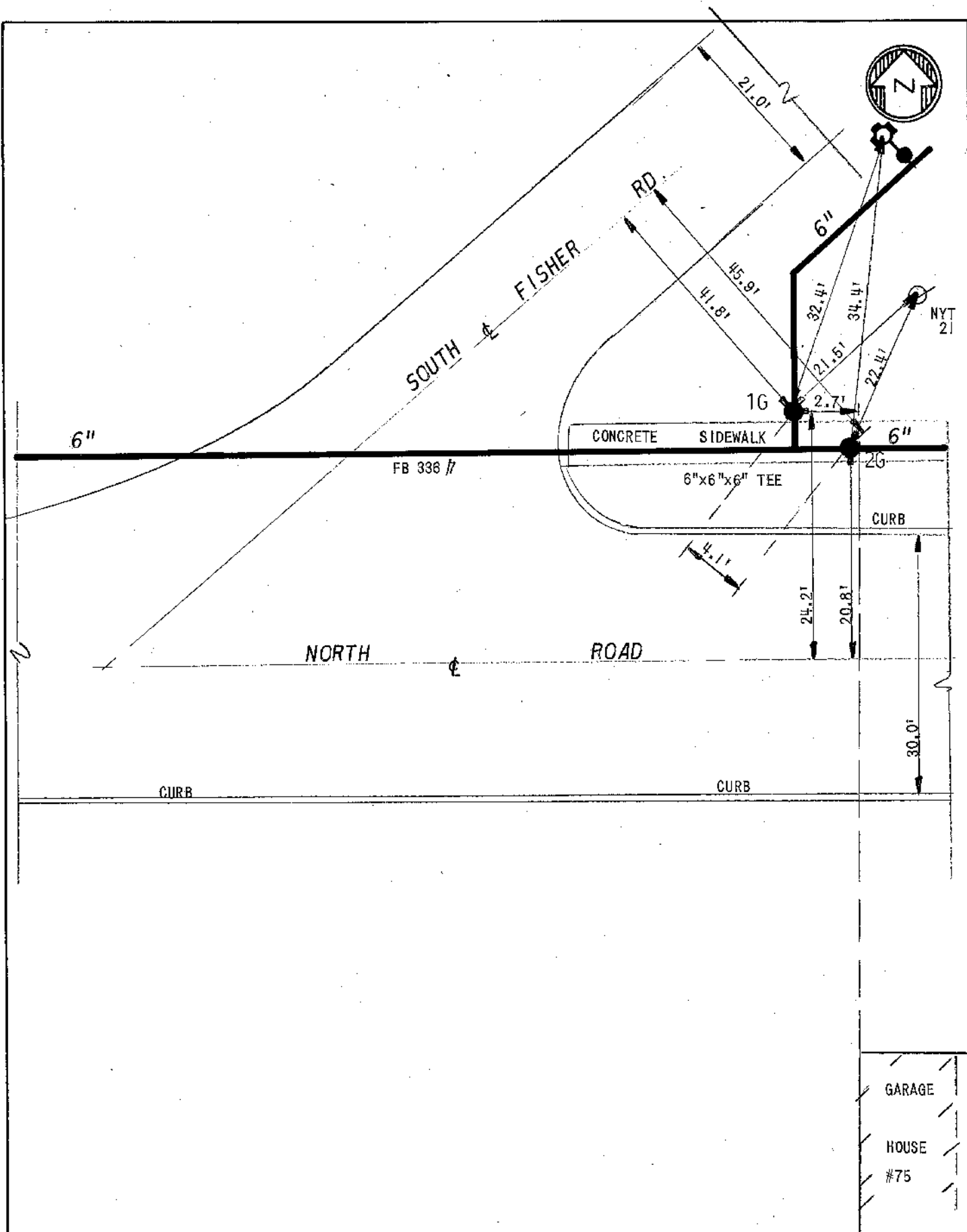
AVE

12" 400'

CURB
FOR VALVE @ INT SEE
PG. 4



FB-19/4



FB 336/7
FB 336/8

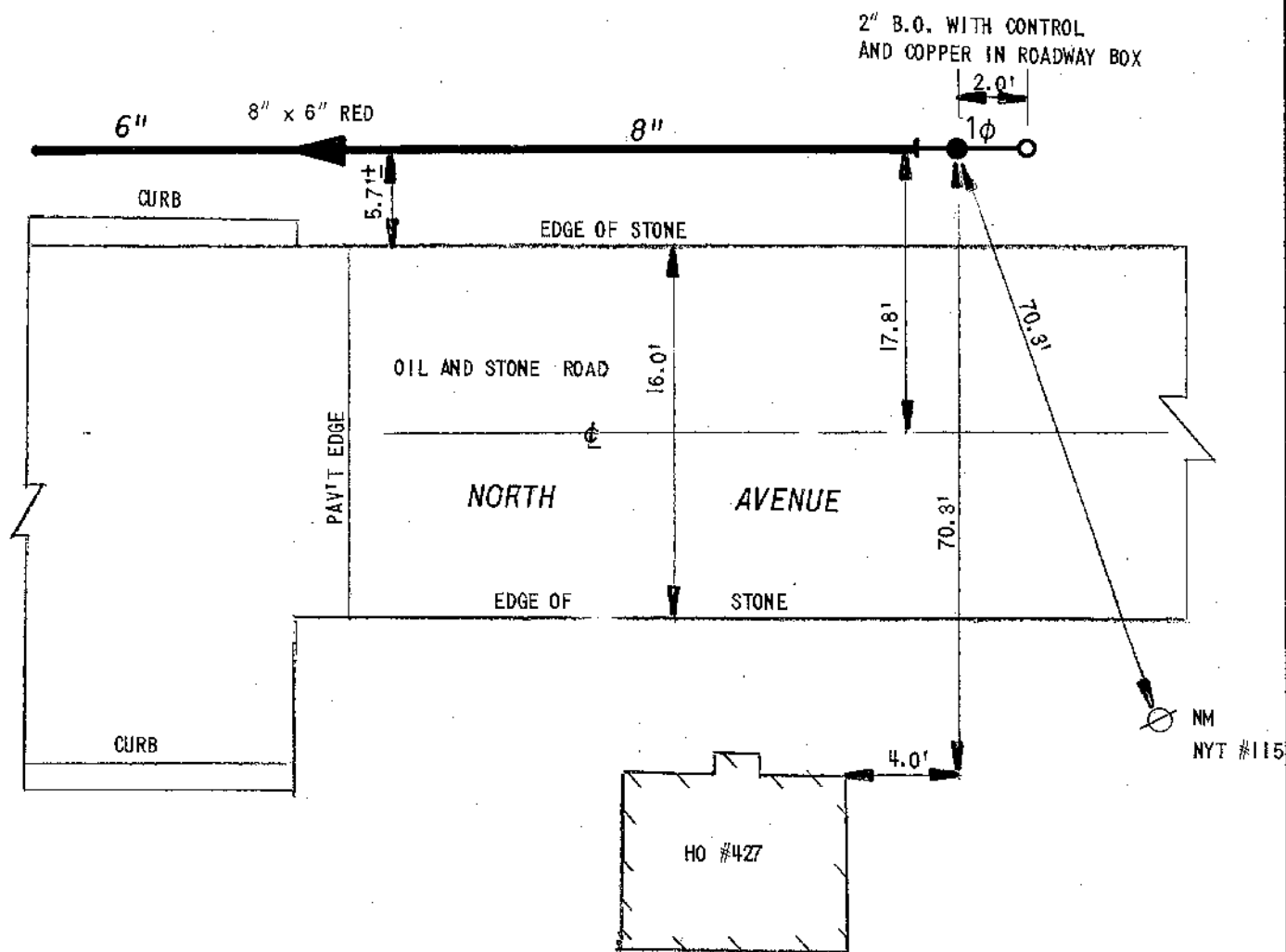
EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

DR. BY: J.C.W.
DATE: 6/29/72
SCALE: NONE

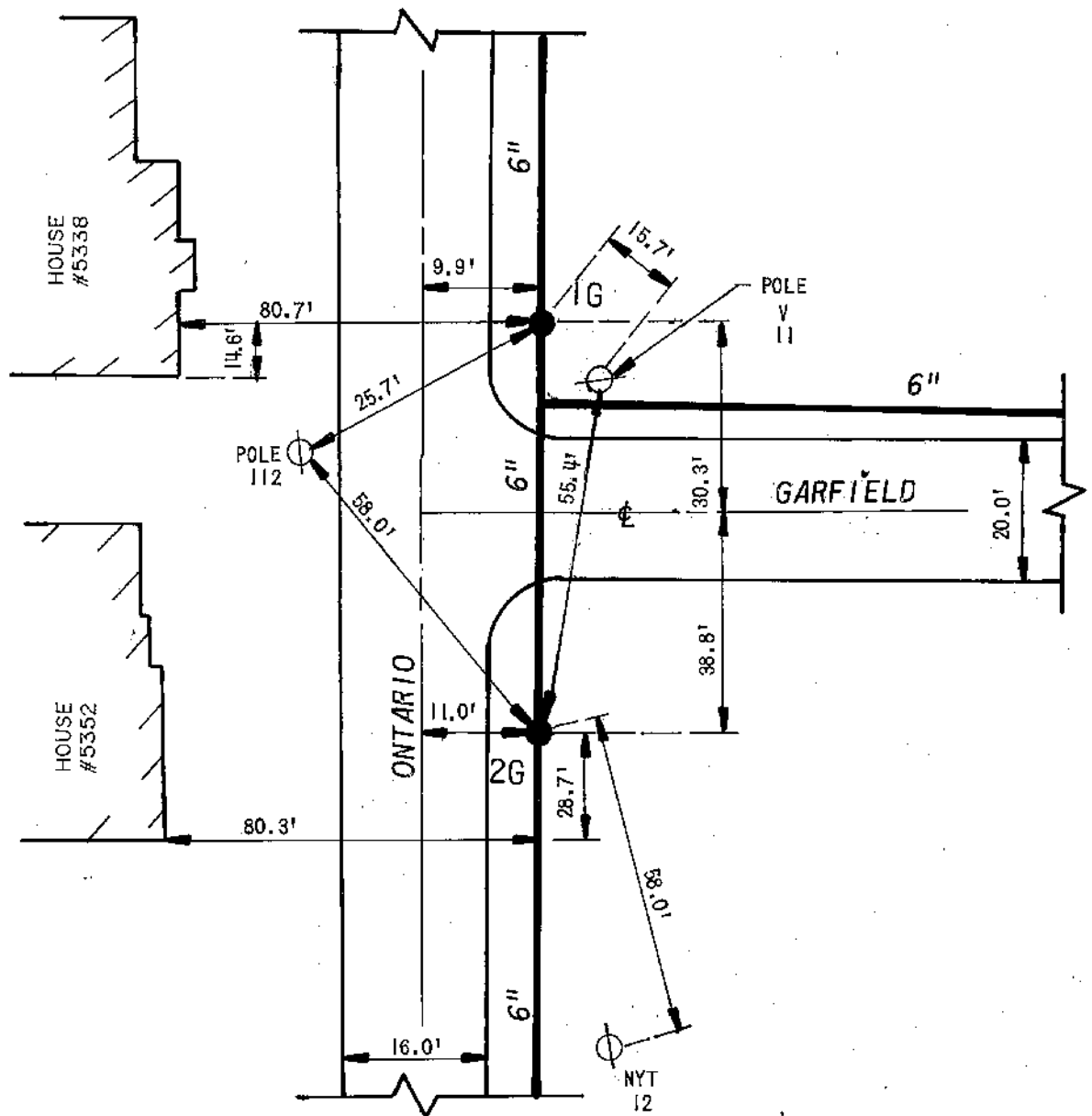
CITY OF LACKAWANNA
E.C.W.A.

DETAIL SHEET NO.

J14-E11



FB400/51
FB449/31
WSTN-659-8301-PX
(B1-161A)





ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED DR. B.M.

DATE: 02/29/92

FIELD

REVISED DR. D.M.C.

DATE: 01/04/16

OFFICE

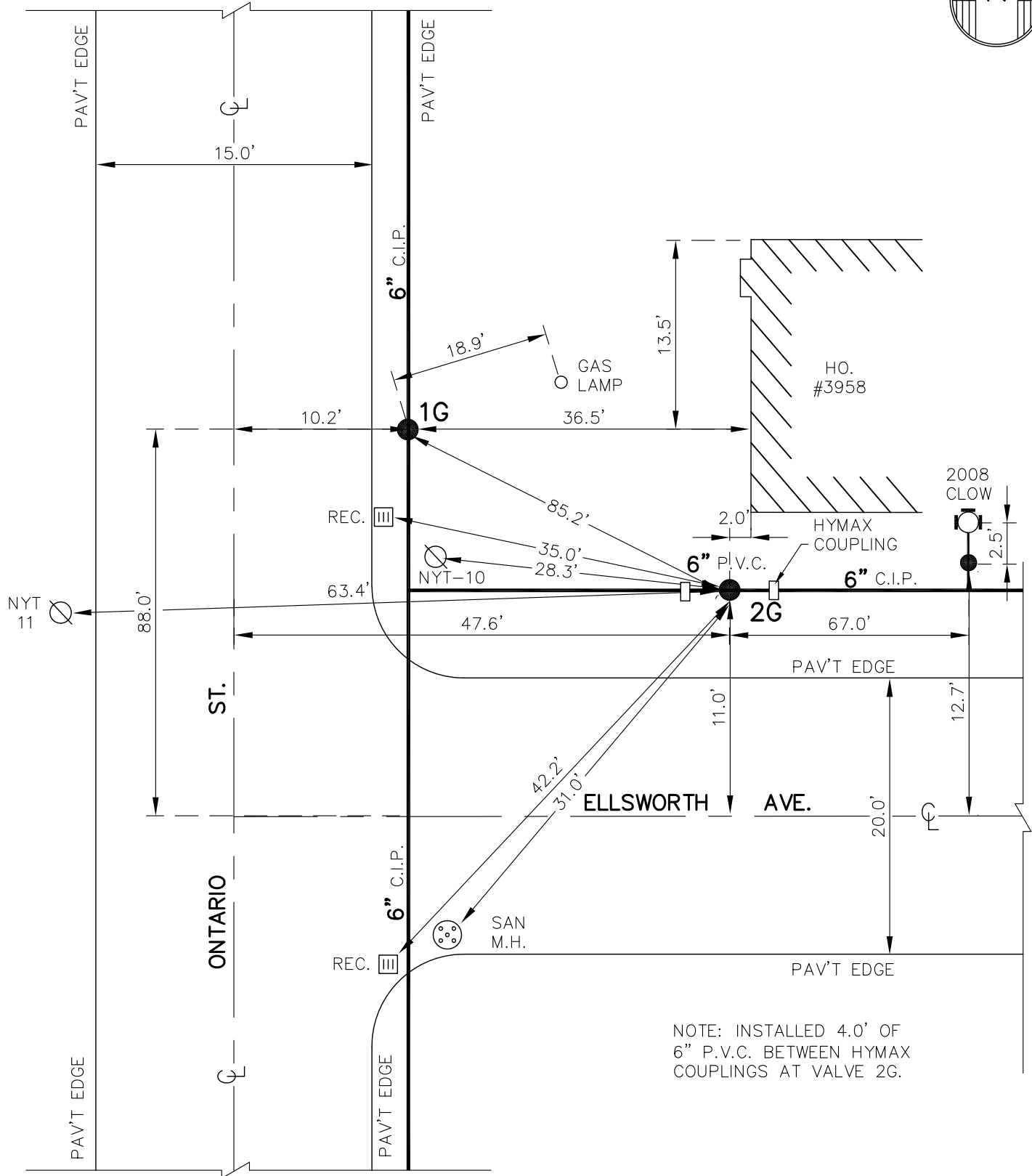
TOWN OF HAMBURG
E.C.W.A.

H17-E30A

DETAIL SHT. NO.

201500383

CURRENT PROJECT NO.



NOTE: DETAIL DRAWN ON
CAD SYSTEM.

W.O. 1574196
HATN-257-1501

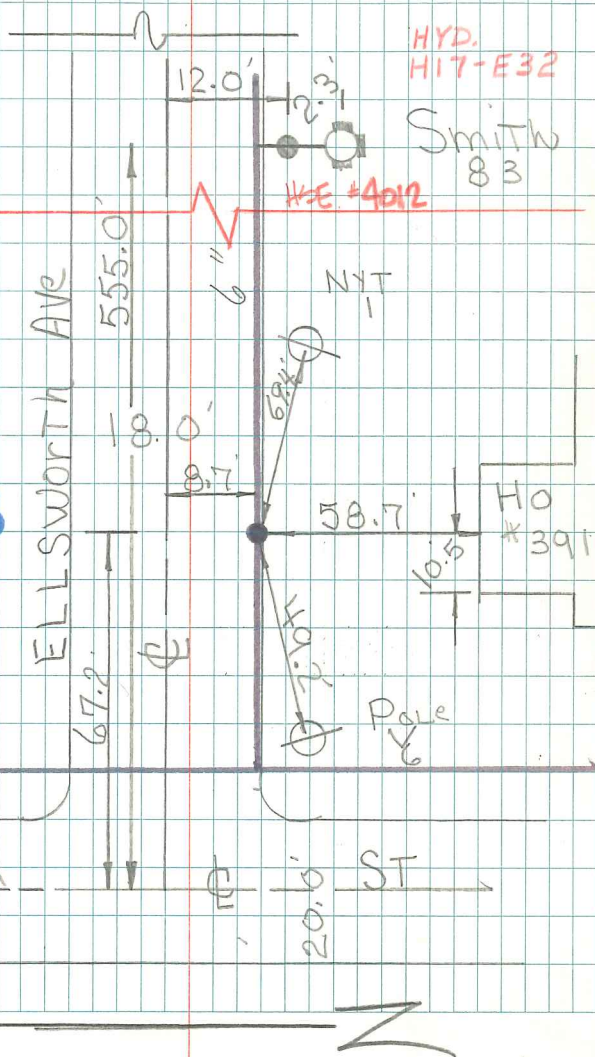
H17-E30A
DETAIL SHT. NO.

MASTER COPY

ELLSworth
H17 pg 1

CONT on pg 2

H17 F25





HOUSE
#4048

NOTE: HYD. REMOVED & RELOCATED
11/29/71. VALVE & NIPPLE
REMOVED. 6"x6"x6" TEE
PLUGGED TO WEST ON 6/14/76
BY E.C.W.A. FORCES.

43.2'

PLUG

15.2'

16.2'

54.3'

NYT
9

69.8'

6"

18.0'

PARK

AVE.

ST.

6"

33.5'

13.4'

10.8'

45.9'

33.4'

56.1'

33.0'

21.0'±

24.5'

23.3'

11.9'

2G

6"

ADAM

6"

36.3'

20.0'

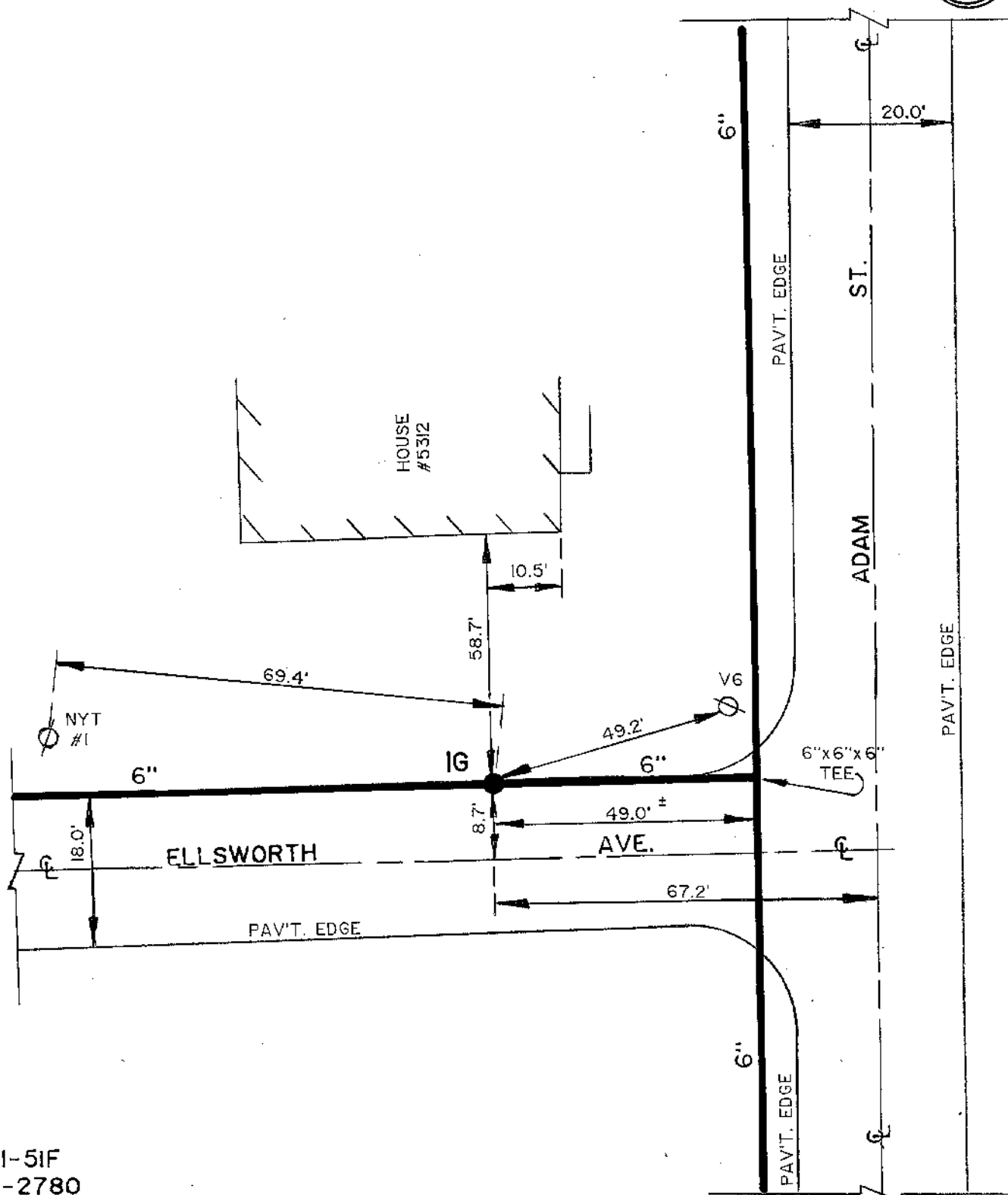
F-2780

EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. BY: M.J.M.
DATE: 6/27/08
SCALE: NONE

TOWN OF HAMBURG
CENTRAL HAMBURG WD.

DETAIL SHEET NO.
H17-F17



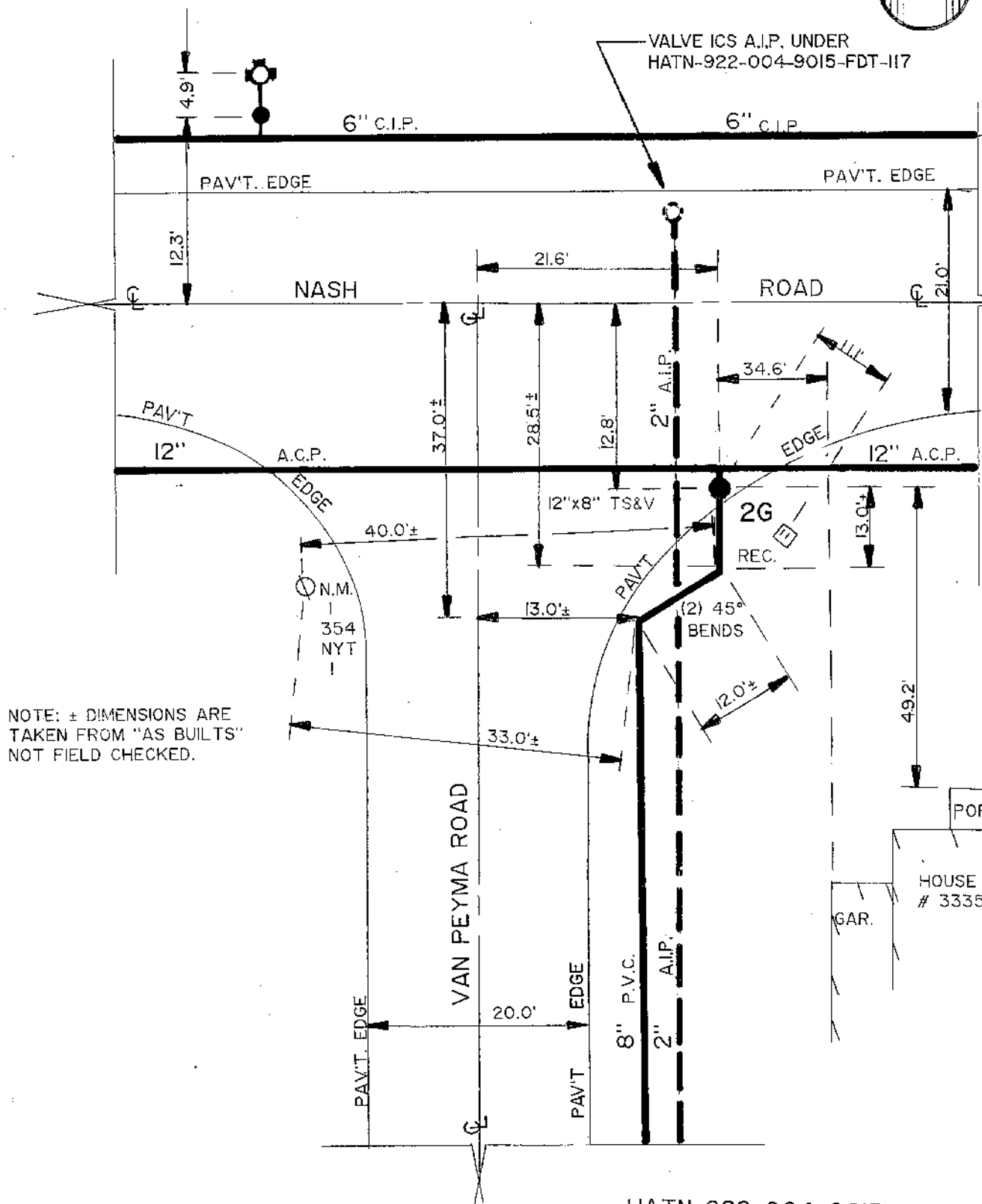
DI-5IF
F-2780

EC **ERIE COUNTY**
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

REVISED
DR. BY: J.M.S.
DATE: 11-1-93
NOT TO SCALE

TOWN OF HAMBURG
CENTRAL HAMB. W.D.

H17-F25
DETAIL SHEET NO.



HATN-922-004-9015-FDT-II7
HATN-922-8801-FT-39-A-2



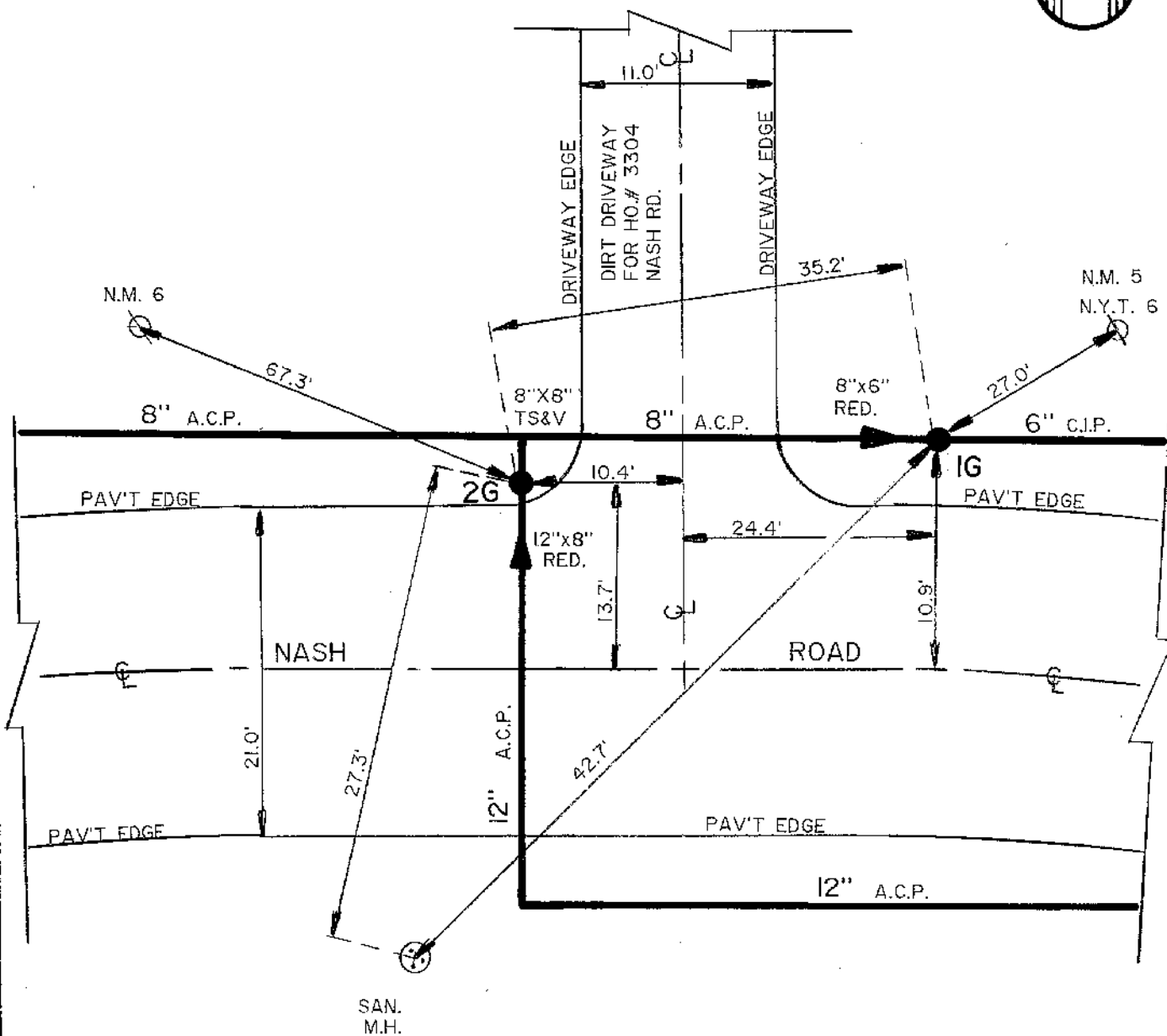
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. L.A.B.
DATE: 8/4/92
N.T.S.

TOWN OF HAMBURG
WANAKAH W. D.

G16-G4I

DETAIL SHEET NO.



NOTE: TYPE & LOCATION OF
BENDS UNKNOWN

HATN-922-8801-FT-39-A-2

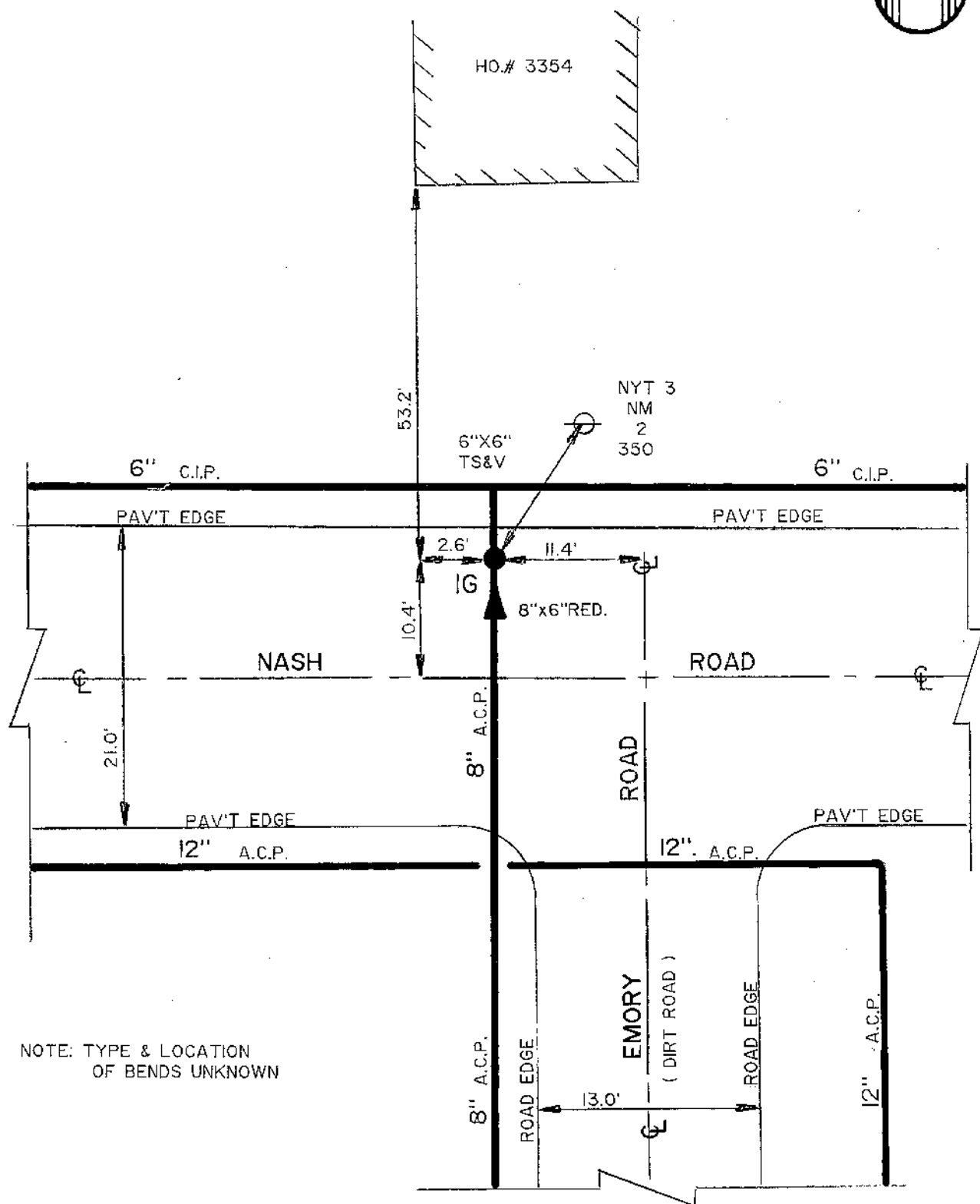


ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. F.J.P.
DATE: 9-12-90
N.T.S.

TOWN OF HAMBURG
WANAKAH W.D.

G16-G41A
DETAIL SHEET NO.



NOTE: TYPE & LOCATION
OF BENDS UNKNOWN

HATN-922-8801-FT-39-A-2



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. F.J.P.
DATE: 9-11-90
N.T.S.

TOWN OF HAMBURG
WANAKAH W.D.

G16-G42

DETAIL SHEET NO.



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED
 DR. D.M.C.

DATE: 6/14/18

FIELD

REVISED
 DR.

DATE:

OFFICE

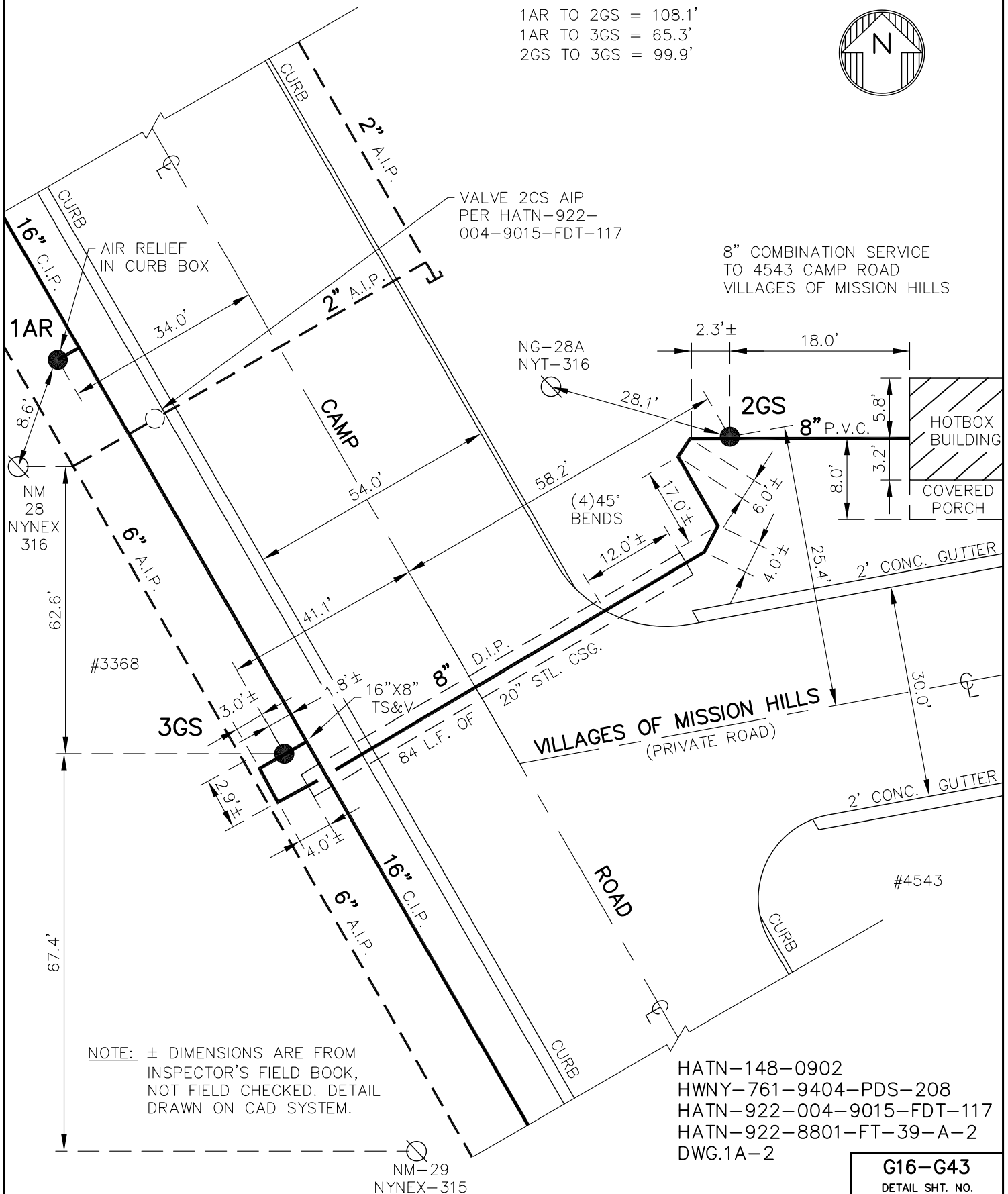
TOWN OF HAMBURG
E.C.W.A.

G16-G43

DETAIL SHT. NO.

200900179

CURRENT PROJECT NO.



G16-G43

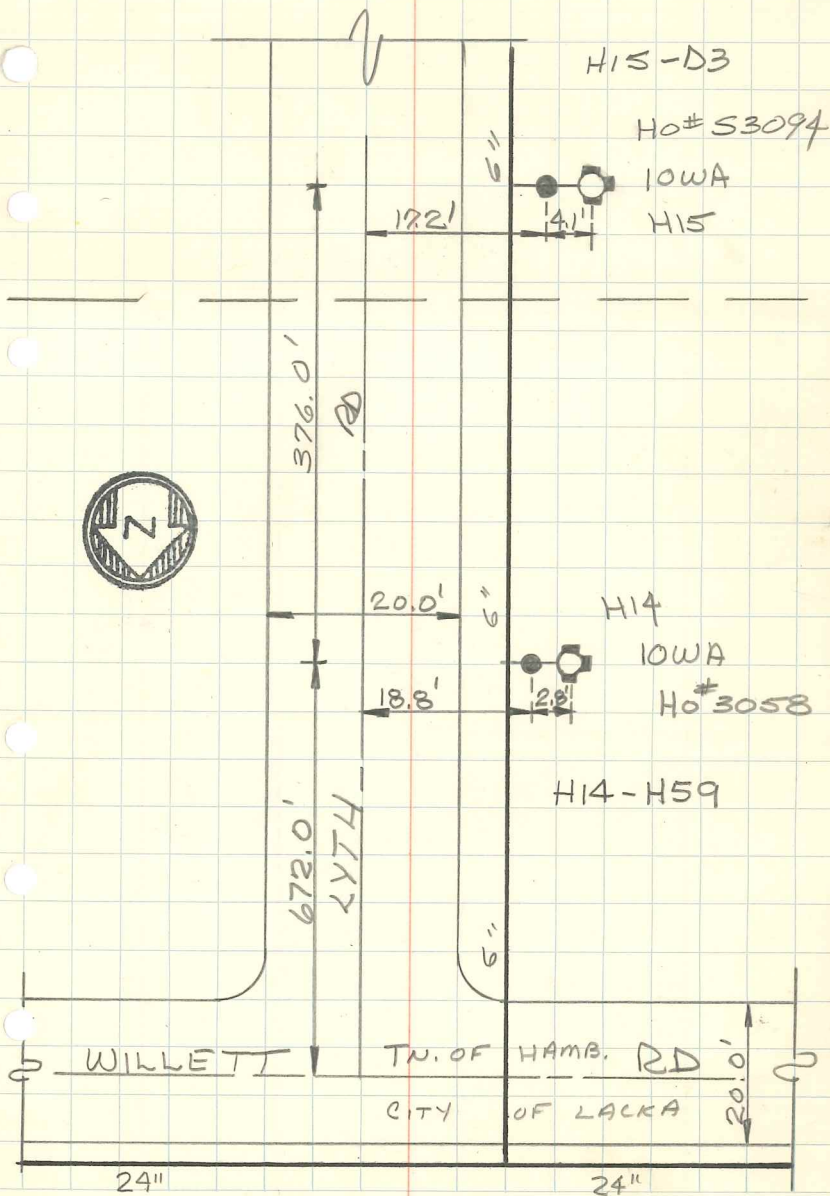
DETAIL SHT. NO.

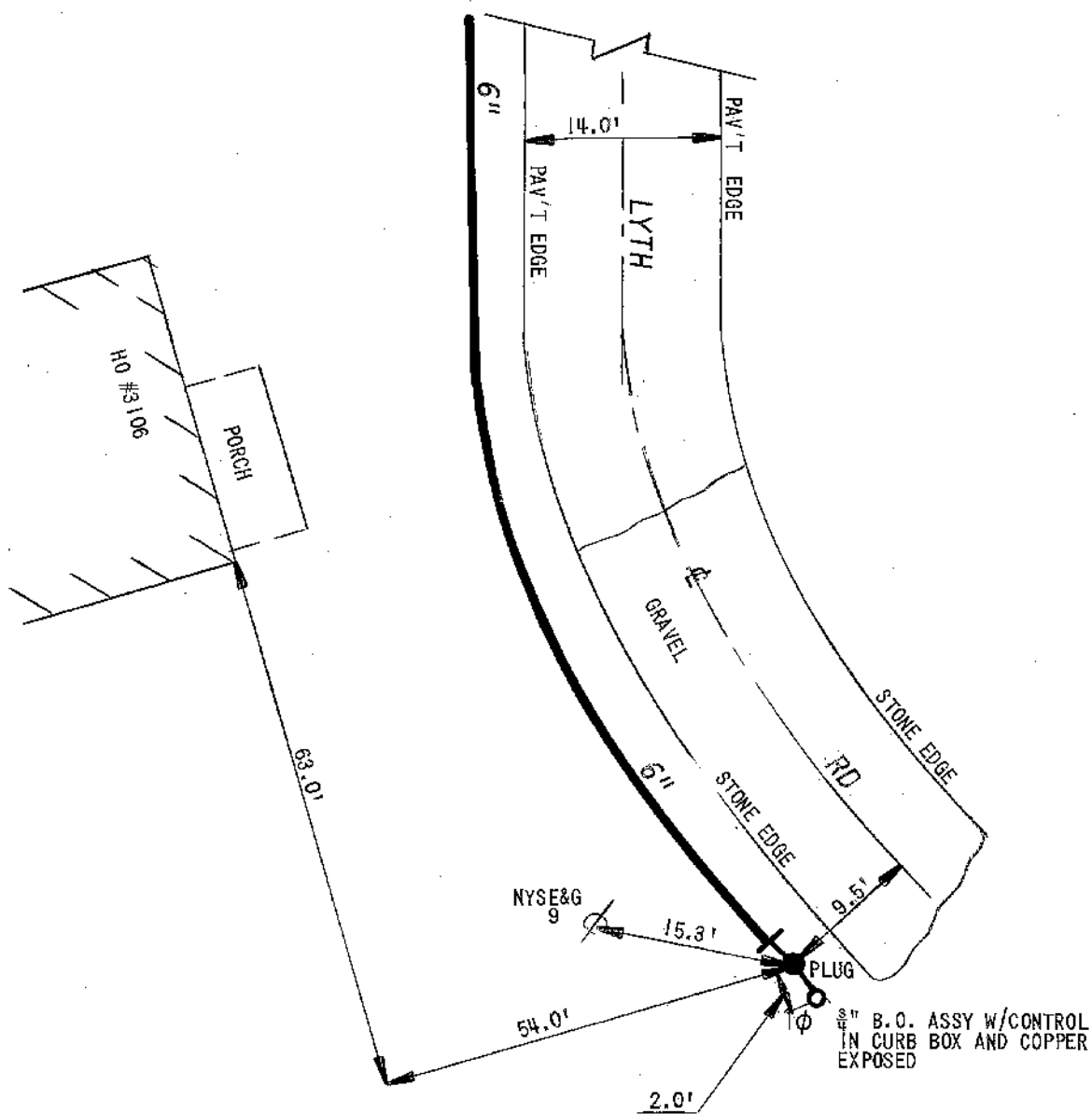
MASTER COPY

MASTER COPY

PG1 LYTH RD
H14 TN OF HAMB.
H15 ECWA
PLR & SCW

6-13-72





FB 215/22

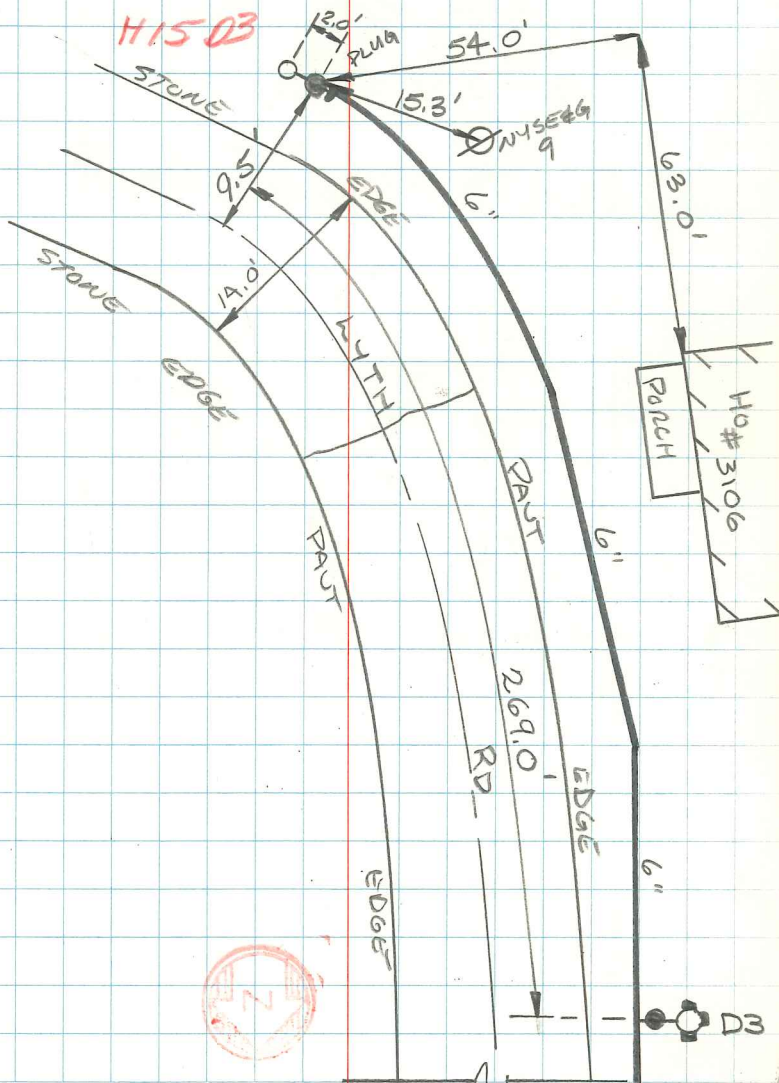
DETAIL SHEET NO.

PG
H15
PL# 15
FB 215/22

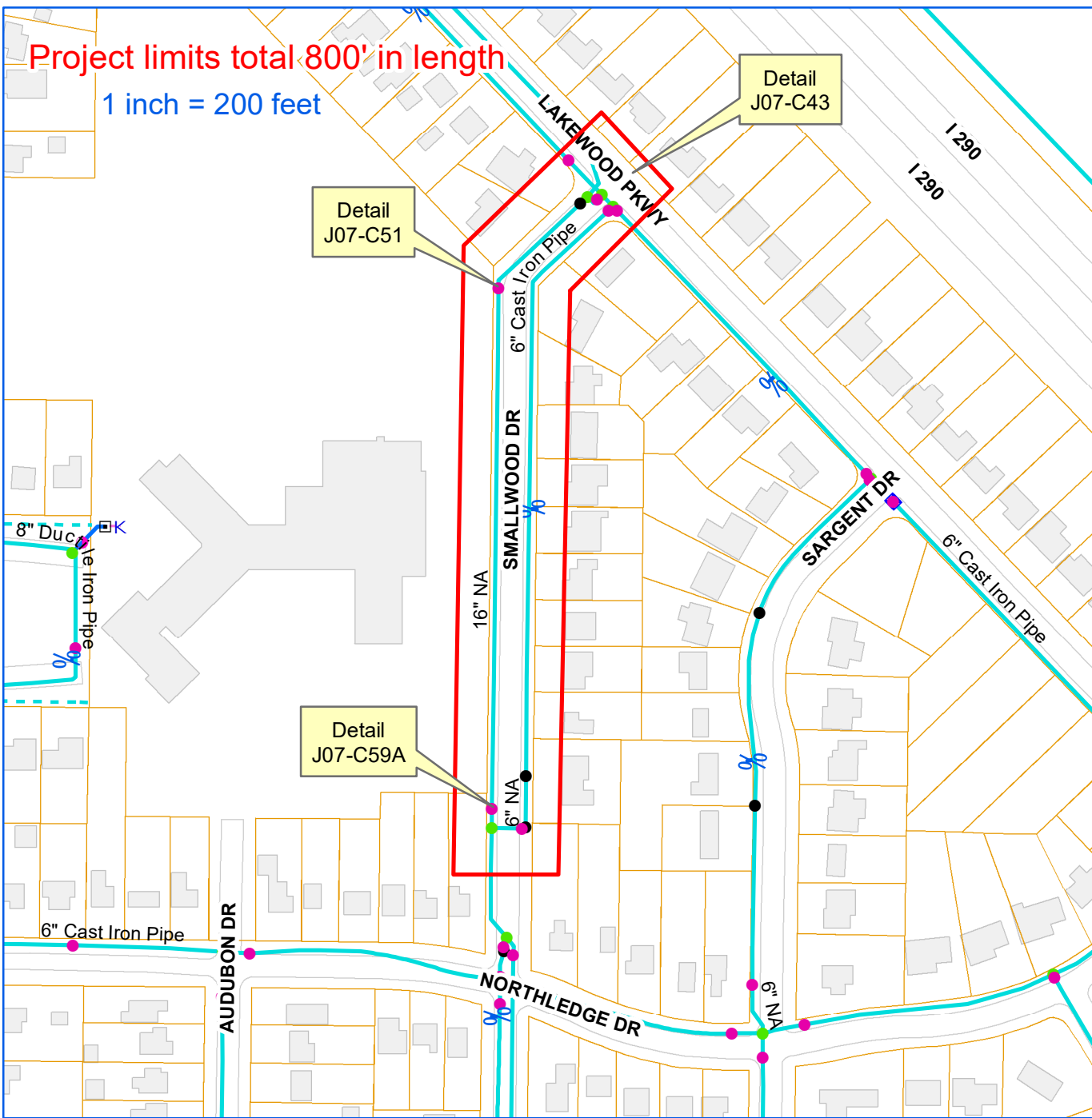
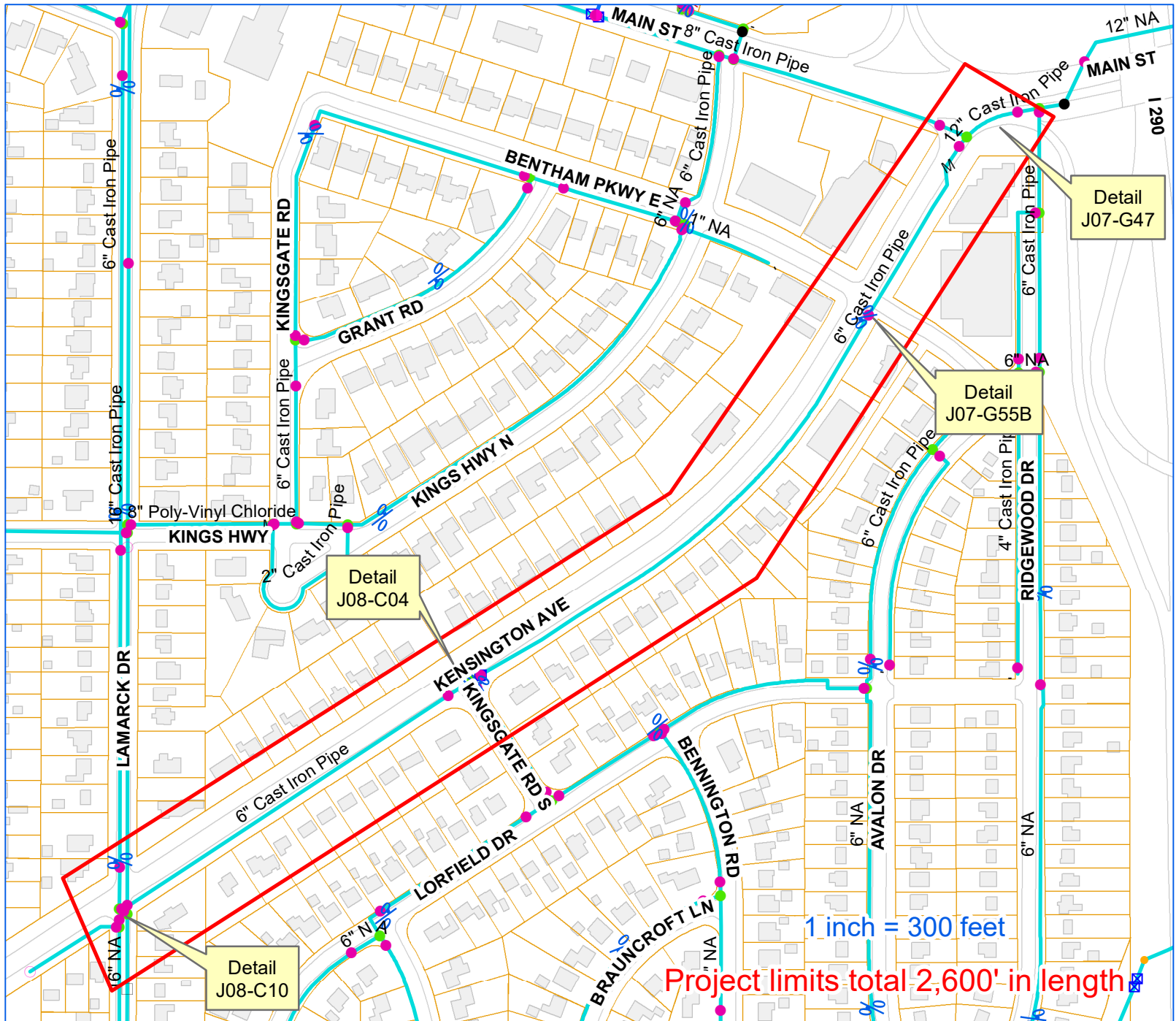
LYTH RD
TNOF HAMB
ECWA
PLR & PCI

9-7-73

3/4" B.O. ASSY W/CONTROL
INCURBS BOX & COPPER
EXPOSED

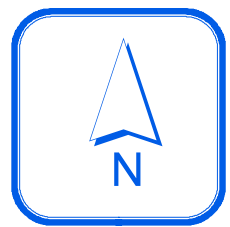


TOWN OF AMHERST



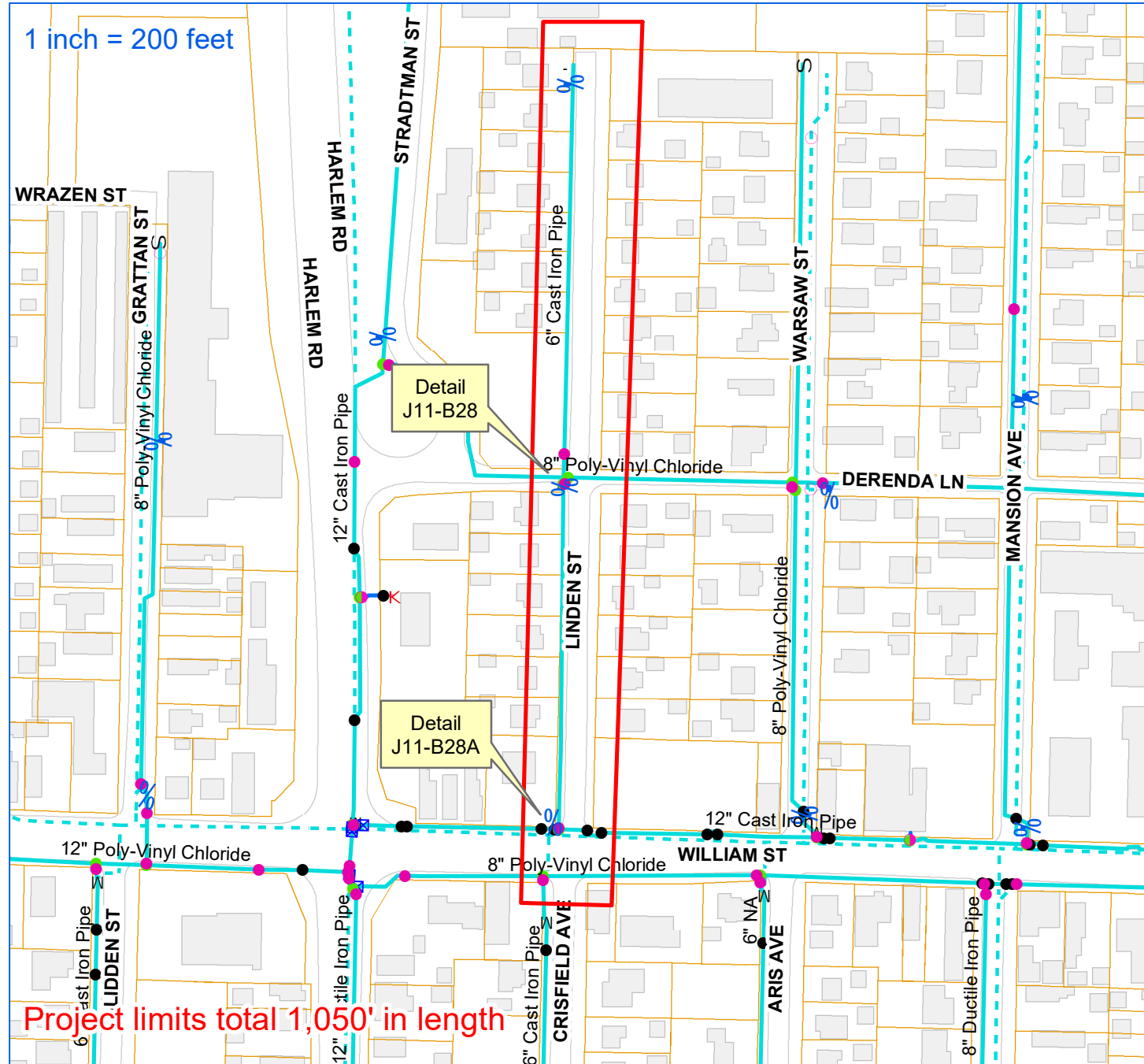
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "E"
KENSINGTON AVE. FROM LAMARCK DR. TO MAIN ST. (TOWN OF AMHERST)
SMALLWOOD DR. FROM NORTHLEDGE DR. TO LAKEWOOD PKWY. (TOWN OF AMHERST)
LINDEN ST. FROM WILLIAM ST. TO DEAD END (TOWN OF CHEEKTOWAGA)
VERN LN. FROM WILLIAM ST. TO DOWMER PL. (TOWN OF CHEEKTOWAGA)

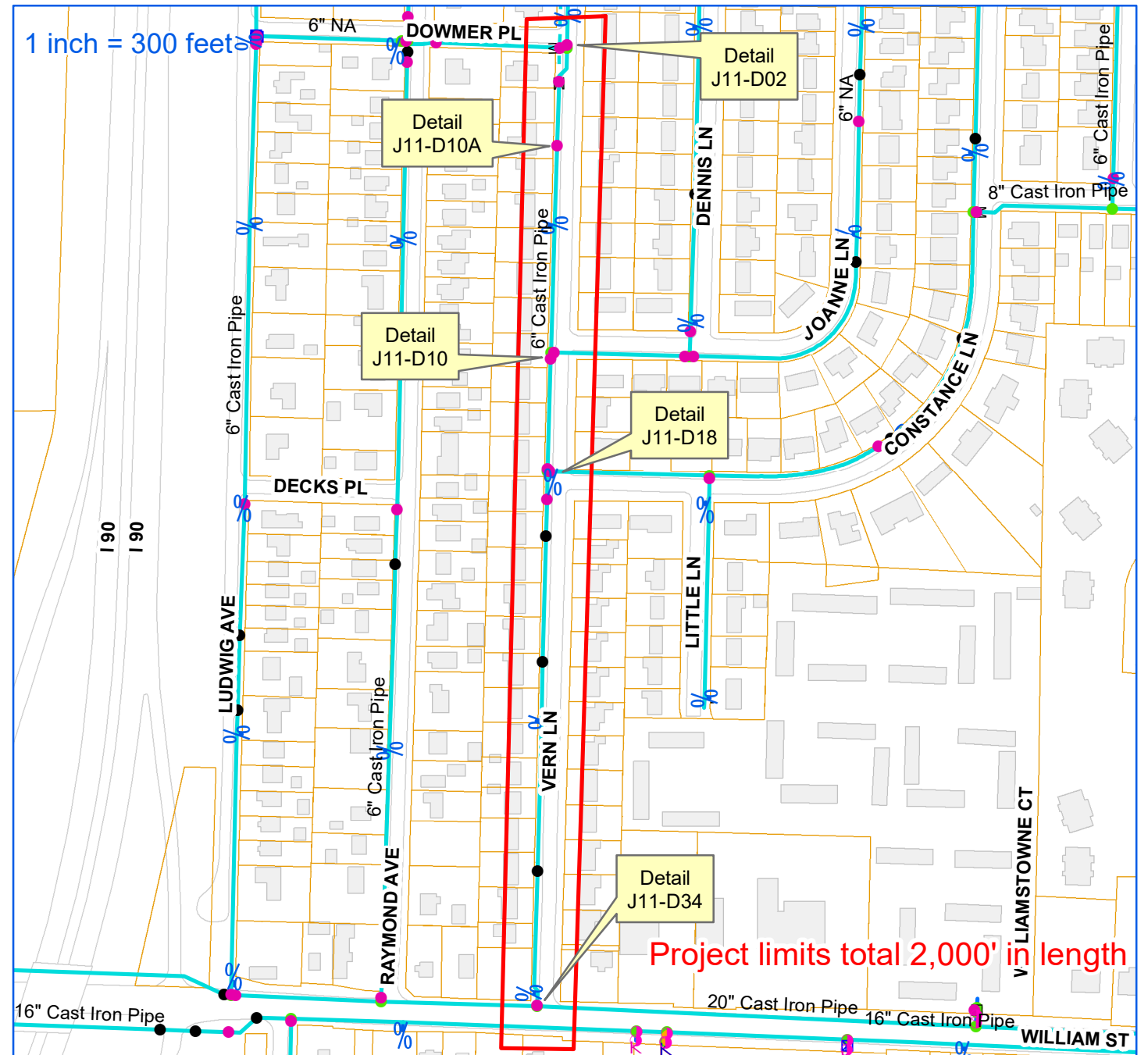


TOWN OF CHEEKTOWAGA

1 inch = 200 feet



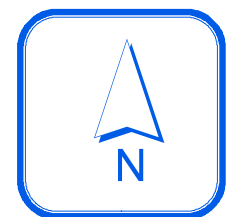
1 inch = 300 feet



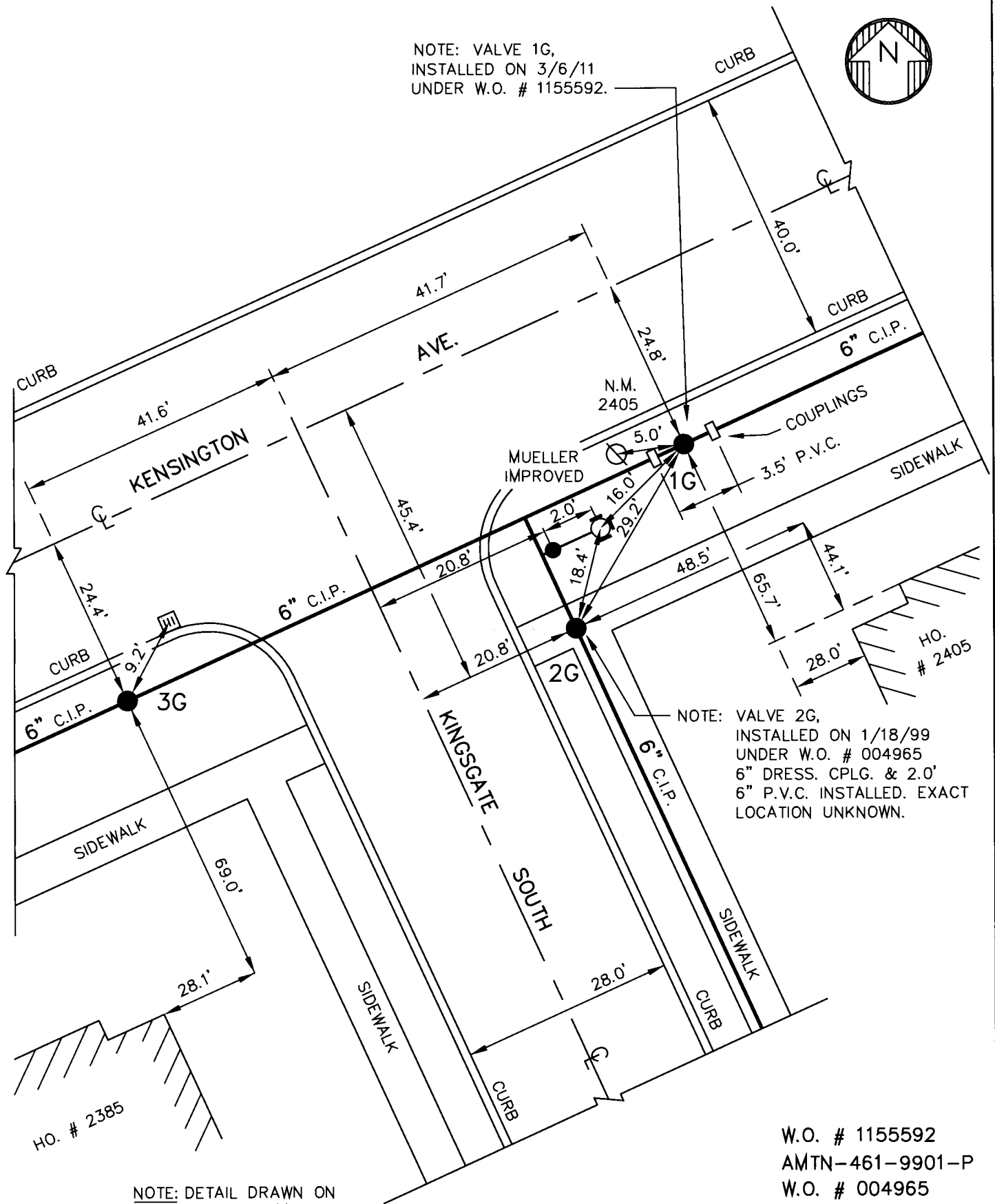
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002 CRITICAL INFRASTRUCTURE IMPROVEMENTS CONTRACT "E"

KENSINGTON AVE. FROM LAMARCK DR. TO MAIN ST. (TOWN OF AMHERST)
SMALLWOOD DR. FROM NORTHLEDGE DR. TO LAKEWOOD PKWY. (TOWN OF AMHERST)
LINDEN ST. FROM WILLIAM ST. TO DEAD END (TOWN OF CHEEKTOWAGA)
VERN LN. FROM WILLIAM ST. TO DOWMER PL. (TOWN OF CHEEKTOWAGA)



NOTE: VALVE 1G,
INSTALLED ON 3/6/11
UNDER W.O. # 1155592.



NOTE: VALVE 2G,
INSTALLED ON 1/18/99
UNDER W.O. # 004965
6" DRESS. CPLG. & 2.0'
6" P.V.C. INSTALLED. EXACT
LOCATION UNKNOWN.

NOTE: DETAIL DRAWN ON
CAD SYSTEM.

W.O. # 1155592
AMTN-461-9901-P
W.O. # 004965
PL 272



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED DR. N.G.S.
DATE: 2-09-01
FIELD

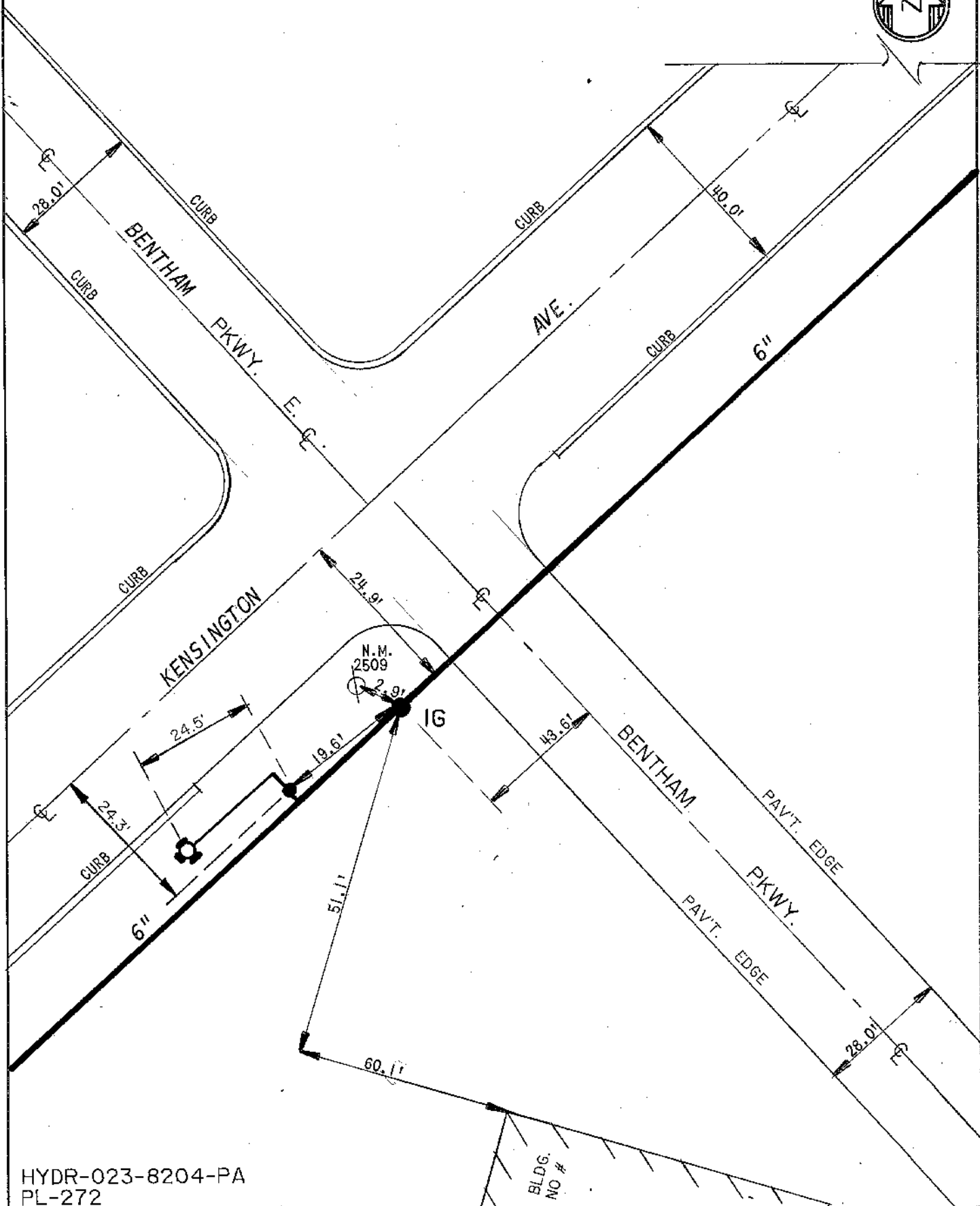
REVISED DR. CHM
DATE: 3-16-11
OFFICE

TOWN OF AMHERST

E.C.W.A.

J08-C04
DETAIL SHT. NO.
N.T.S.

MASTER COPY



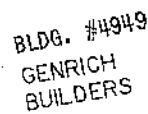
HYDR-023-8204-PA
PL-272

EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

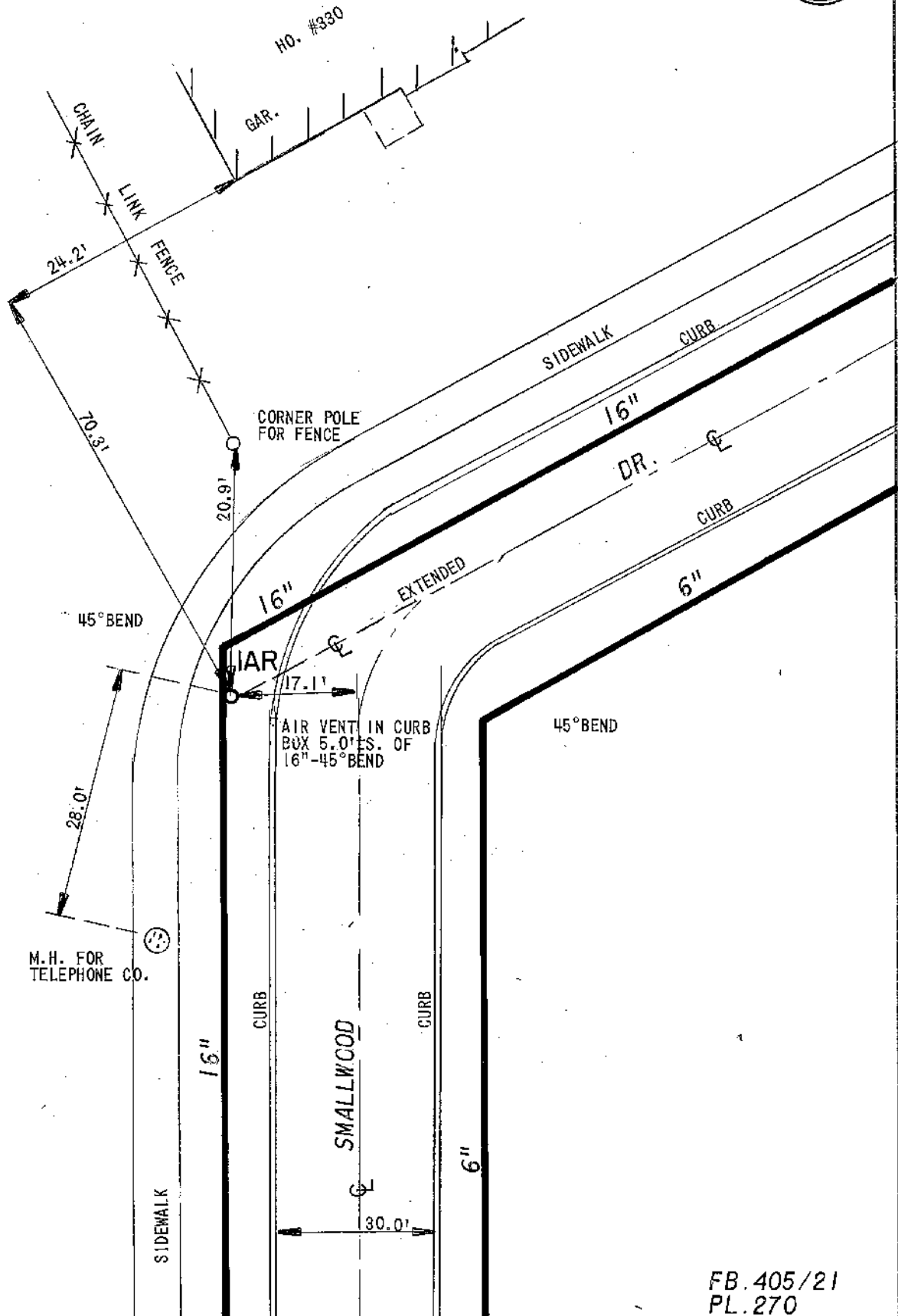
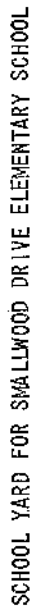
REVISED
DR. BY: J.M.S.
DATE: 8-21-92
SCALE: NONE

TOWN OF AMHERST
E.C.W.A.

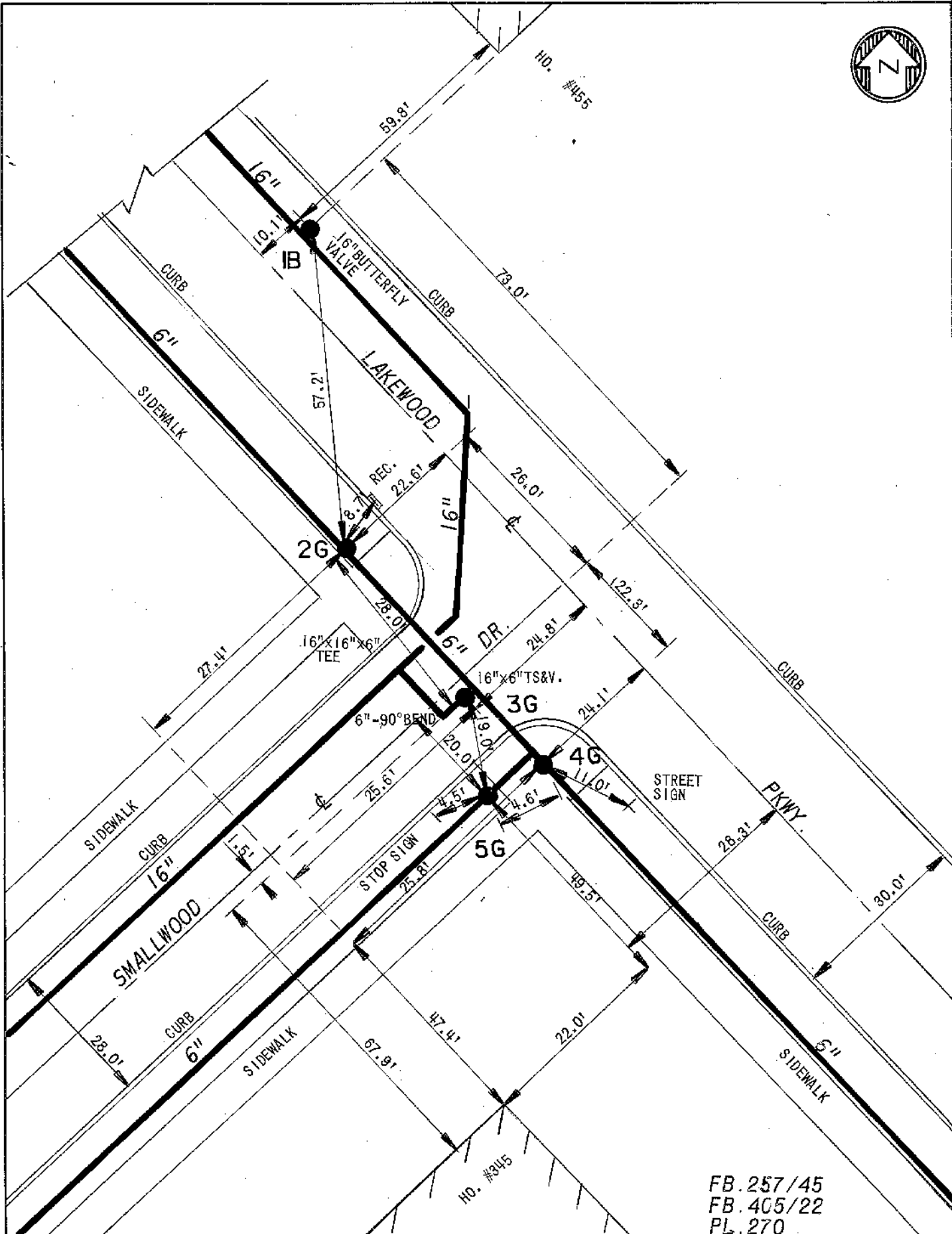
DETAIL SHEET NO.
J07-G55B



DETAIL SHEET NO.



DETAIL SHEET NO.



FB.257/45
FB.405/22
PL.270

DETAIL SHEET NO.

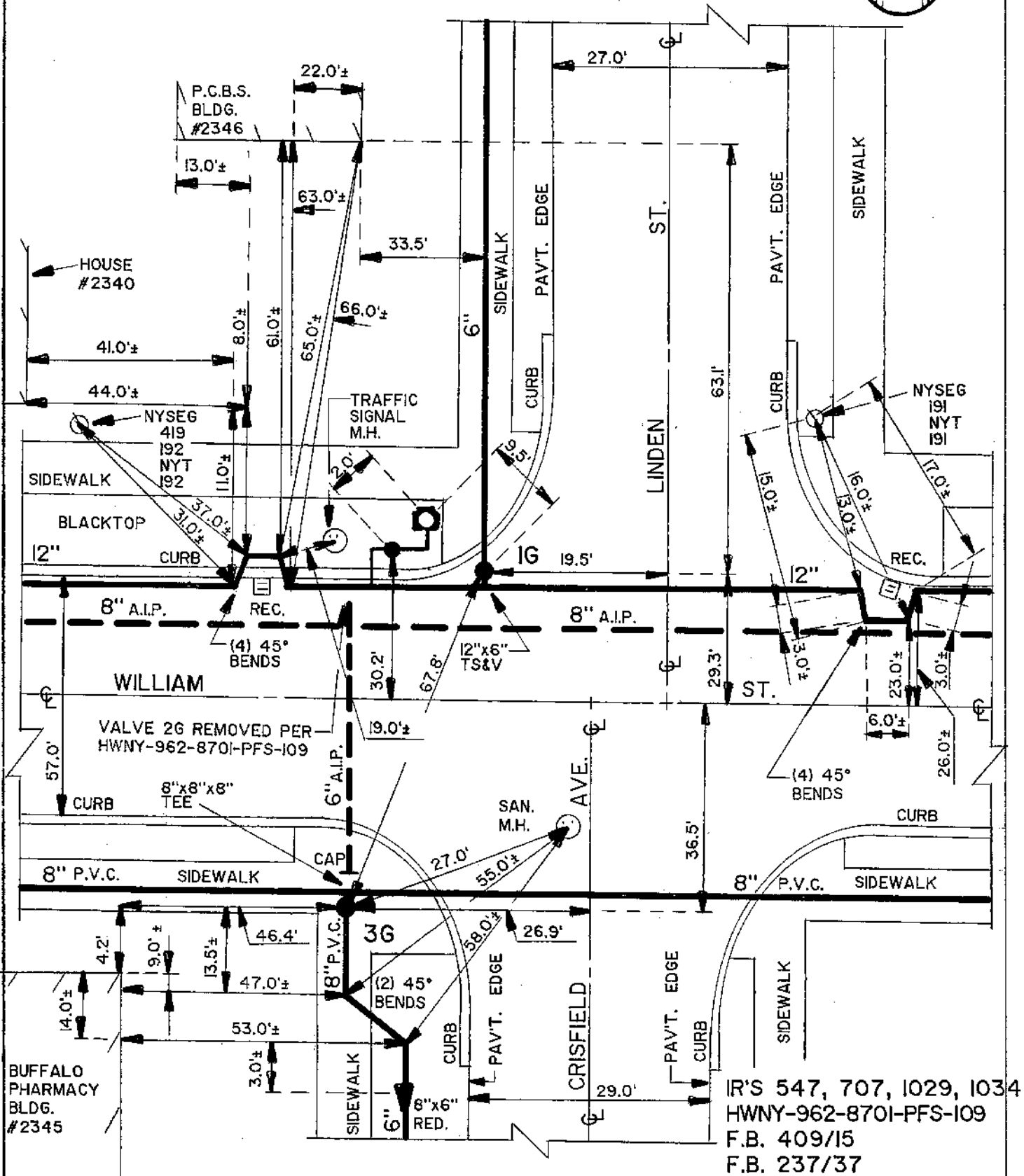
EC **ERIE COUNTY** 
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

REVISED	JMU
DR. BY:	
DATE:	7-24-89
SCALE:	NONE

TOWN OF AMHERST
E. C. W. A.

J07-C43

NOTE: ± DIMENSIONS ARE FROM AS-BUILTS & IR'S. NOT FIELD CHECKED.



EC **ERIE COUNTY**
WA **WATER AUTHORITY**
 BUFFALO, NEW YORK

REVISED
 DR. L.A.B.
 DATE: 5-26-93
 N.T.S.

TN OF CHEEKTOWAGA
 E.C.W.A.

J11-B28A
 DETAIL SHEET NO.



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. DR. N.G.S.

DATE: 5.8.02

FIELD

REV. DR. D.K.C.

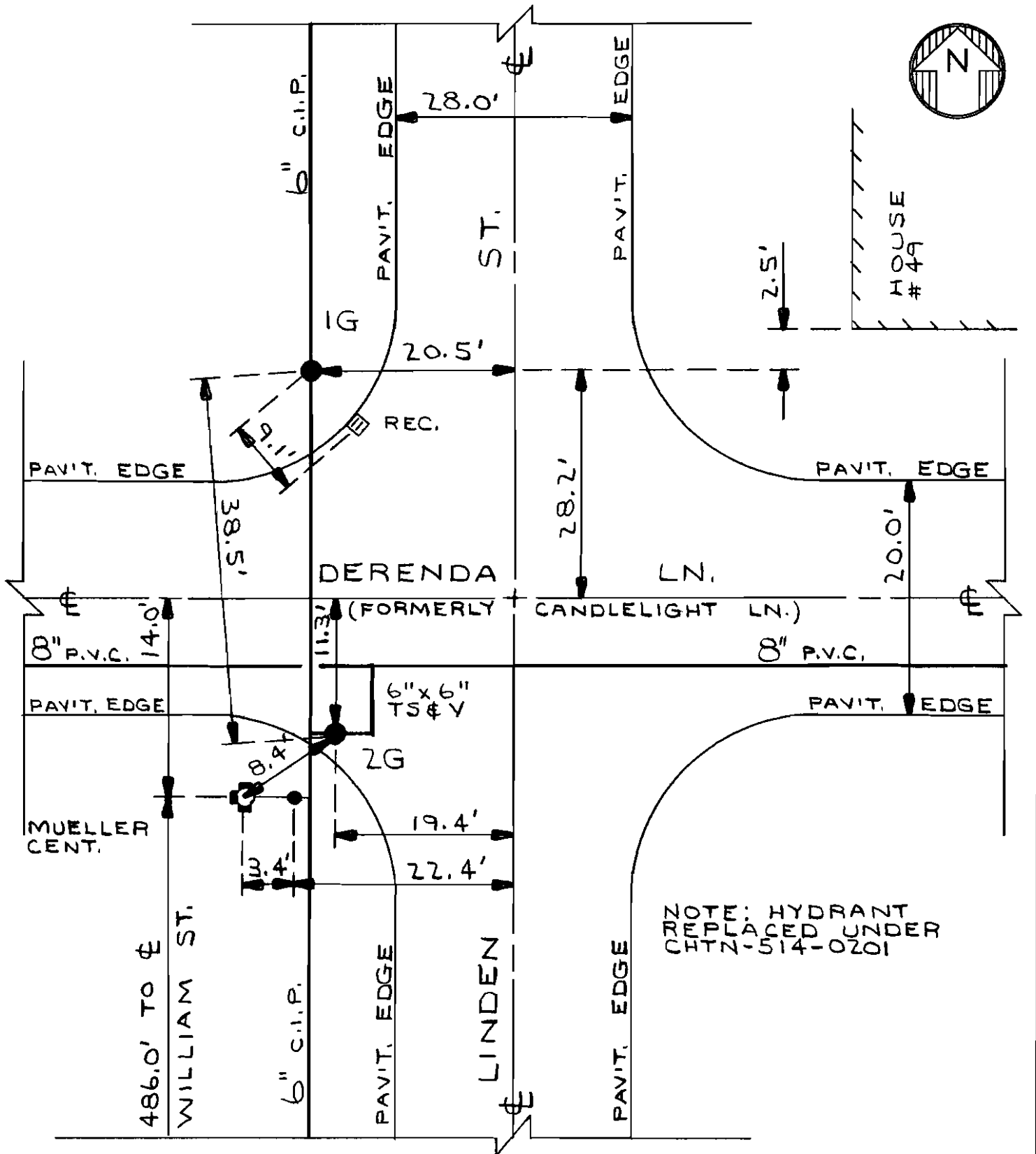
DATE: 1.29.09

OFFICE

TN. OF CHEEKTOWAGA
E.C.W.A.

J11-B28
DETAIL SHT. NO.

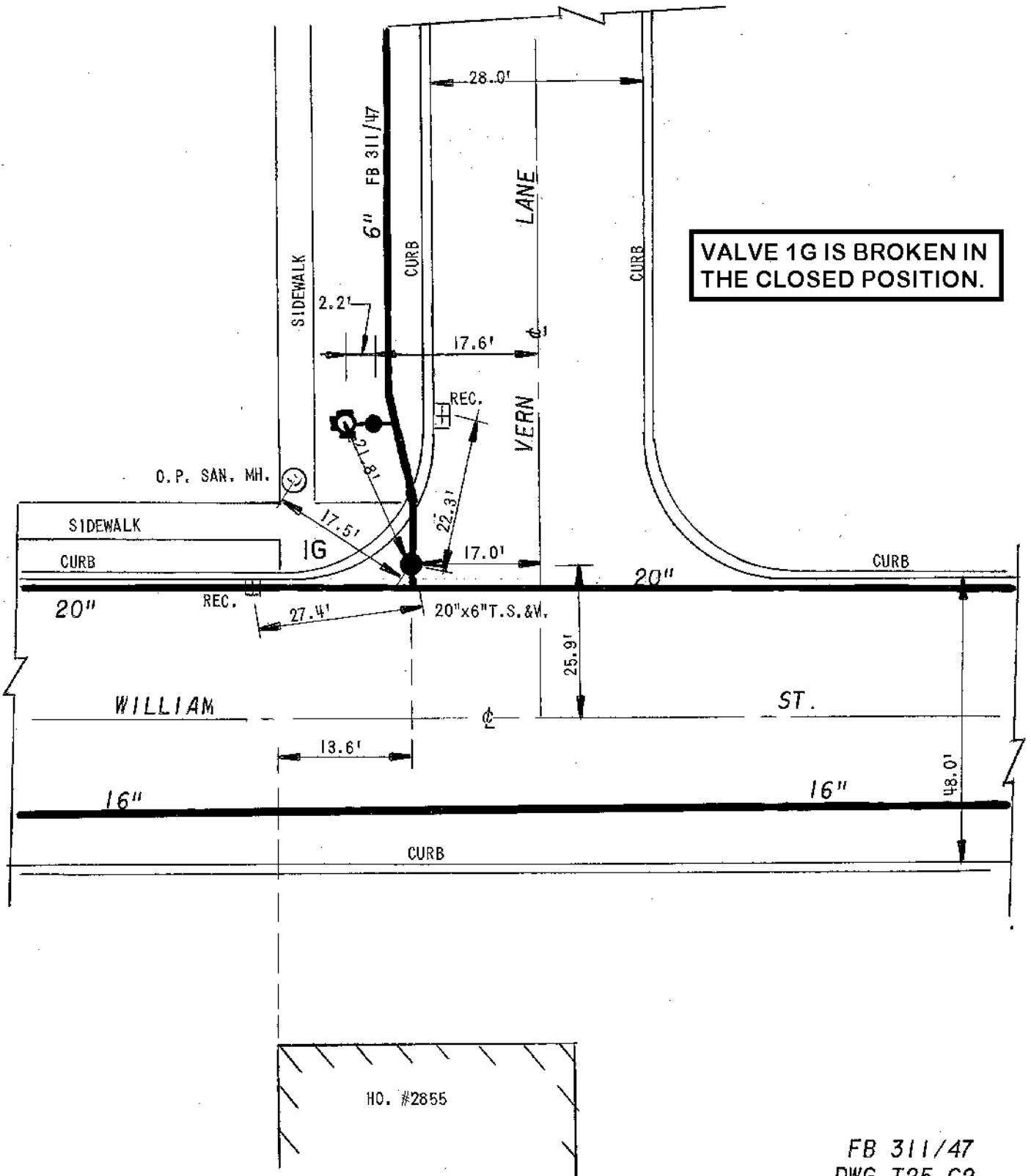
200200058
CURRENT PROJECT NO.



CHTN-514-0201
TUSCONT-74C-003/004/005-8400-PD
T.B. 237/38

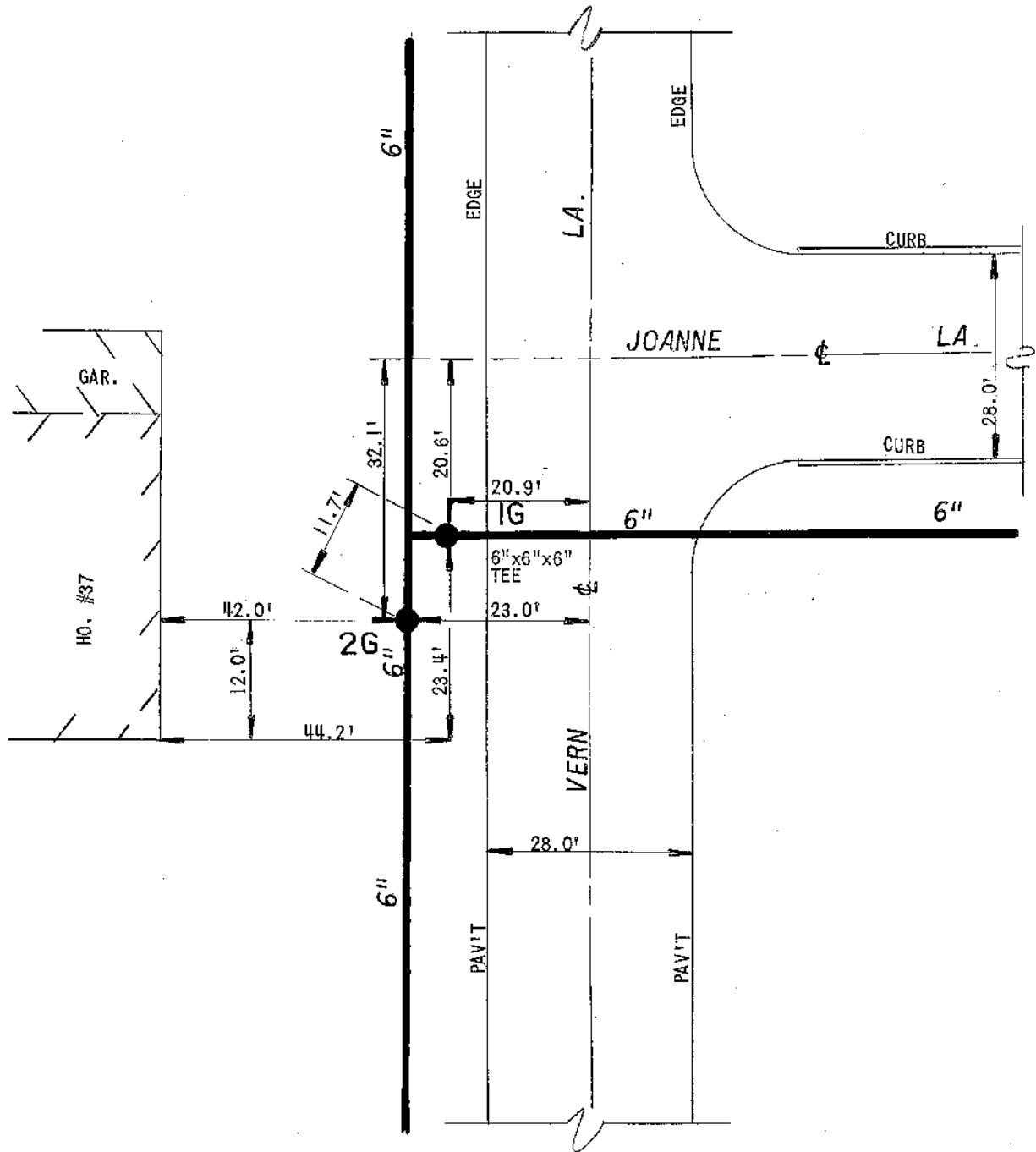
J11-B28
DETAIL SHT. NO.

MASTER COPY



FB 311/47
DWG T25-C2

DETAIL SHEET NO.



FB. 318/59

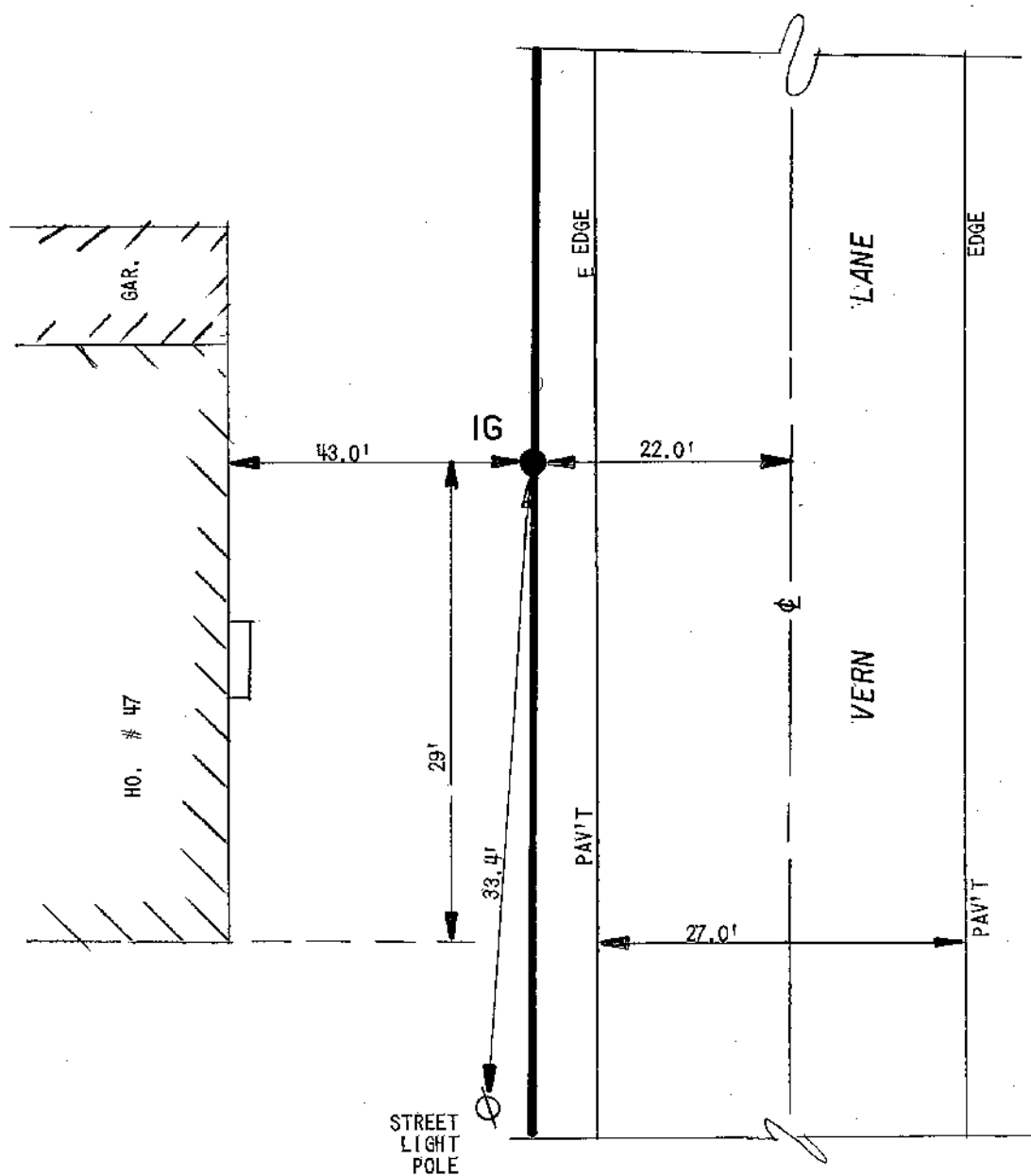
DETAIL SHEET NO.

EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

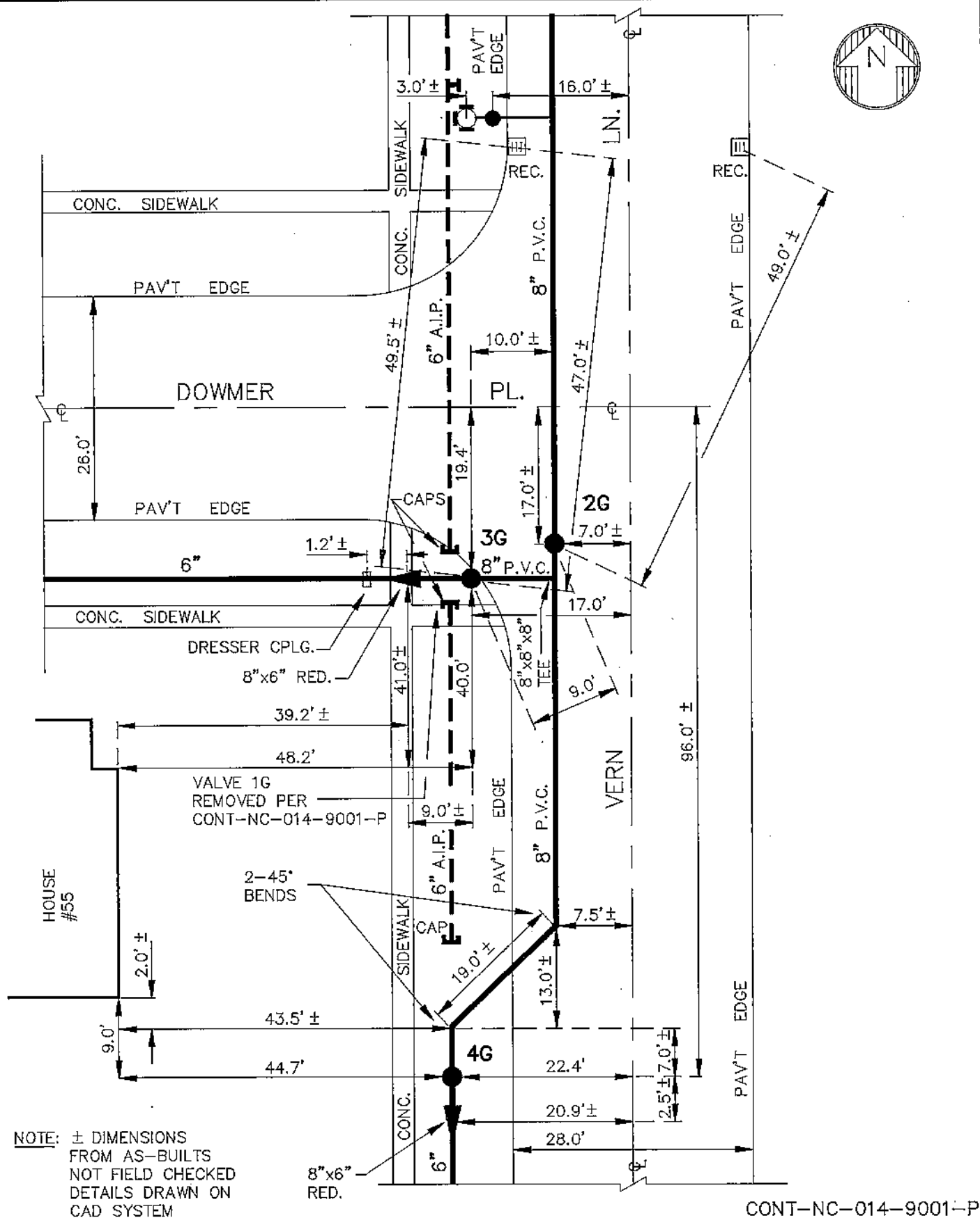
DR. BY: *P.L.R.*
DATE: 7/10/73
SCALE: NONE

TOWN OF CHEEKTOWAGA
E.C.W.A.

J11-D10



DETAIL SHEET NO.



CONT-NC-014-9001-P
F.B. 395/70



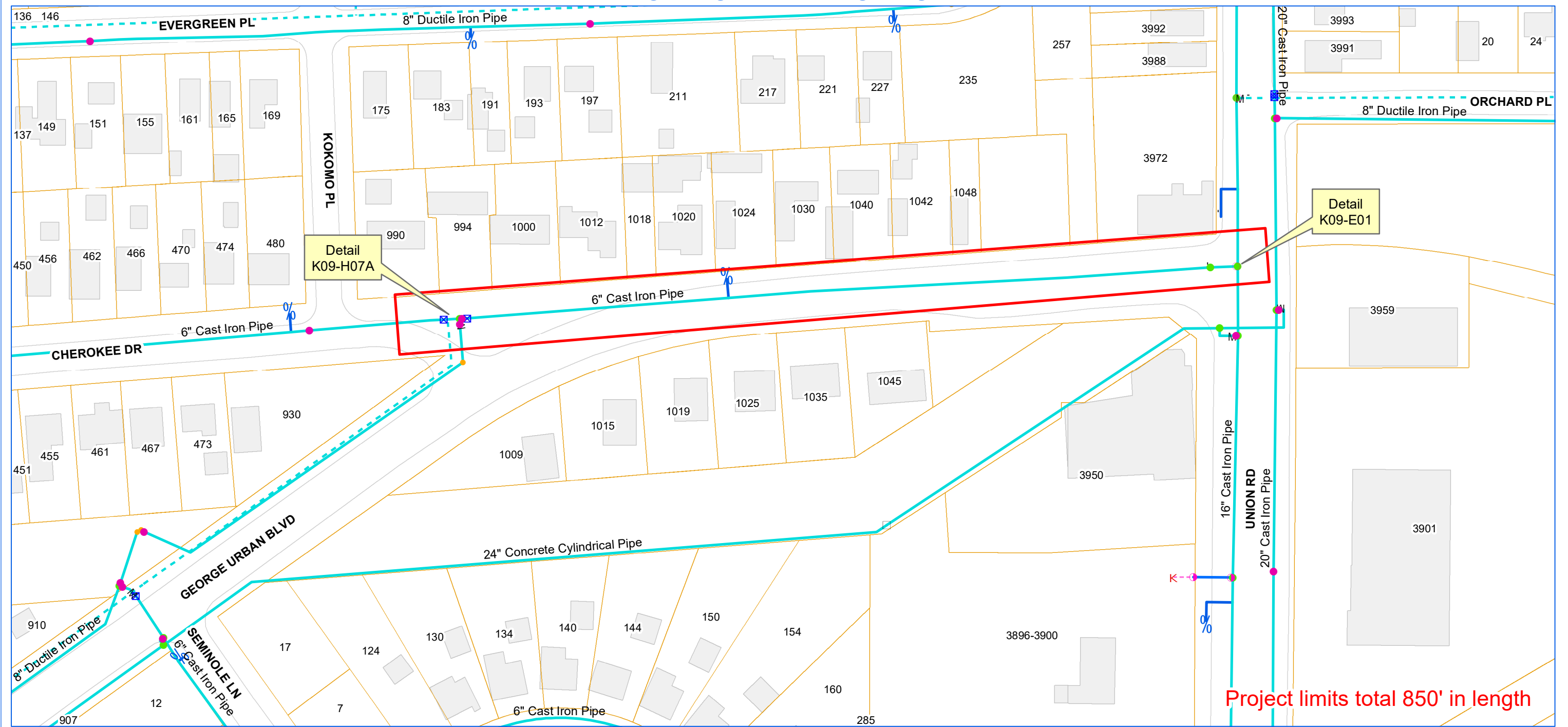
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. **FDB**
DATE: 4-1-92
N.T.S.

TOWN OF CHEEKTOWAGA
E.C.W.A.

J11-D02
DETAIL SHEET NO.

TOWN OF CHEEKTOWAGA

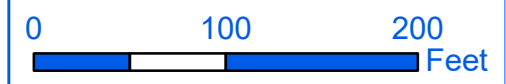
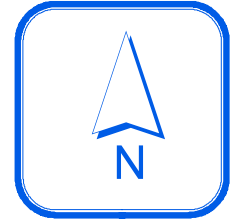


Project limits total 850' in length



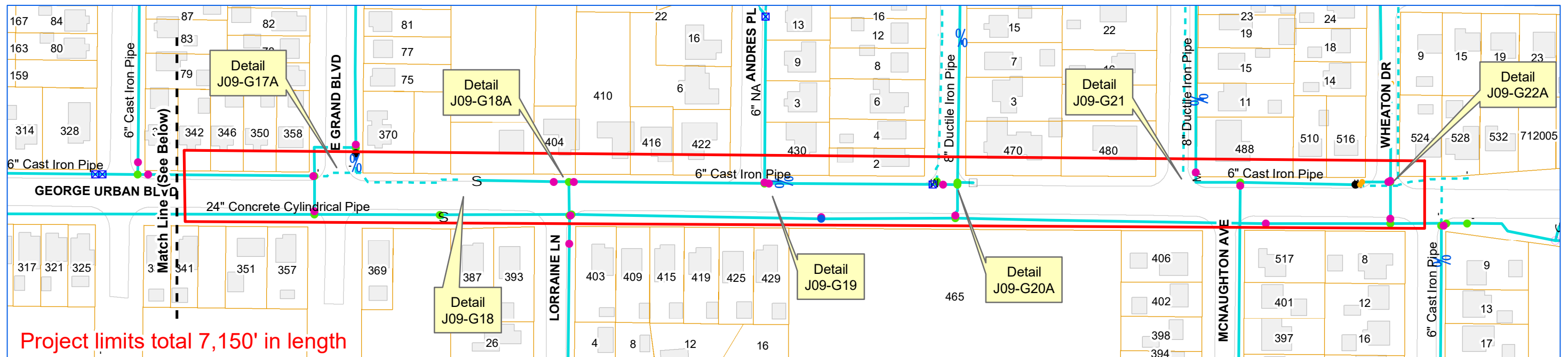
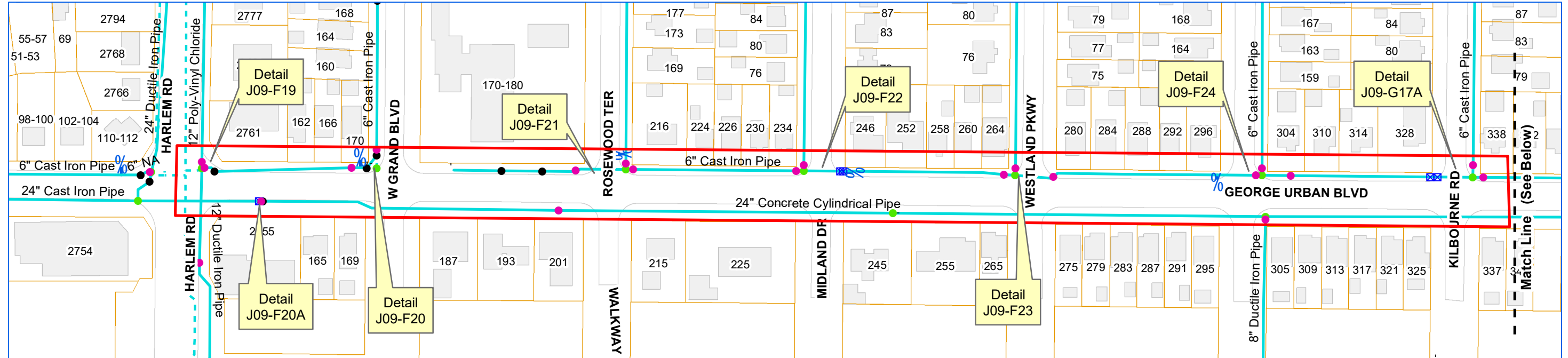
ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "G"
GEORGE URBAN BLVD. FROM CHEROKEE DR. TO UNION RD
GEORGE URBAN BLVD. FROM HARLEM RD. TO WHEATON DR.
TOWN OF CHEEKTOWAGA



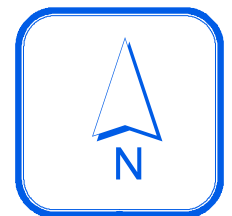
1 inch = 100 feet

TOWN OF CHEEKTOWAGA



ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "G"
GEORGE URBAN BLVD. FROM CHEROKEE DR. TO UNION RD
GEORGE URBAN BLVD. FROM HARLEM RD. TO WHEATON DR.
TOWN OF CHEEKTOWAGA



0 140 280 Feet
 1 inch = 150 feet



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REV. D.K.C.
DR.

DATE: 8.6.08

DR.

DATE:

FIELD

OFFICE

TN. OF CHEEKTOWAGA

E.C.W.A

J09-H07A

DETAIL SHT. NO.

200600181

CURRENT PROJECT NO.

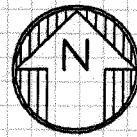
APT. BLDG. #990

31.3'

VALVE 1G
REMOVED UNDER
CONT-WE-002-0601

80.3'

74.8'



6"x6"x6"
TEE

NYSEG
6

REC.

DRESSER
CPLG.

DRESSER
CPLG.

3G
CAP

2G

8"x6"
RED

30.2'

52.0'

CHEROKEE

CONC. GUTTER

35.6'

6" A.I.P.

8" D.I.R.

45°
BEND

CONC. GUTTER

BLVD.

URBAN

GEORGE

CONC. GUTTER

NOTE: LOCATION OF
BENDS UNKNOWN.

6" A.I.P.

8" D.I.P.

CONC. GUTTER

CONC. GUTTER

CONT-WE-002-0601
F.B. 303/5
F.B. 106/68

J09-H07A

DETAIL SHT. NO.

MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

DR. R.L.C.

DATE: 10.15.80

FIELD

REV. D.K.C.

DATE: 9.11.15

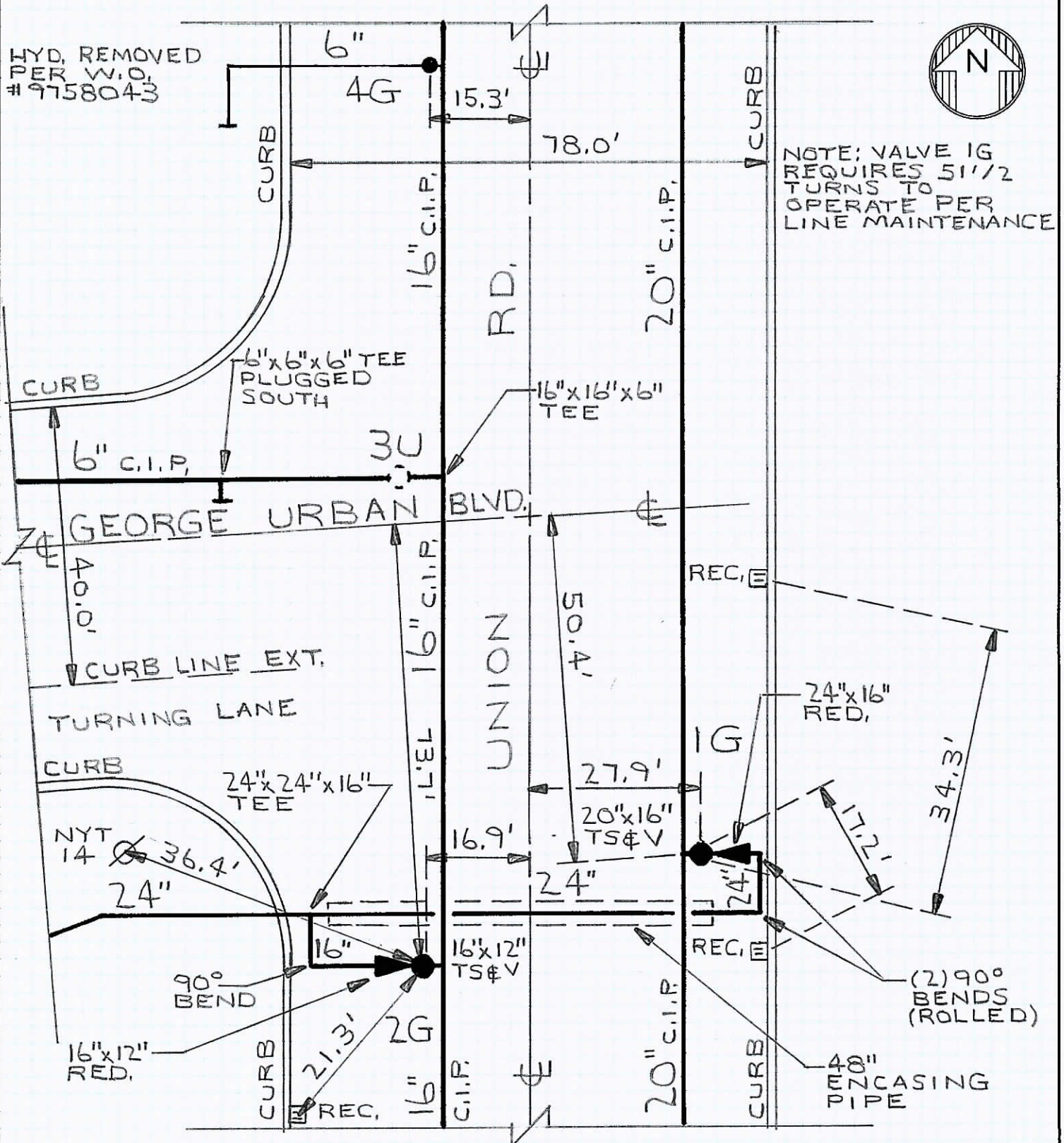
OFFICE

TN. OF CHEEKTOWAGA

E.C.W.A.

K09-E01
DETAIL SHT. NO.

197700267
CURRENT PROJECT NO.

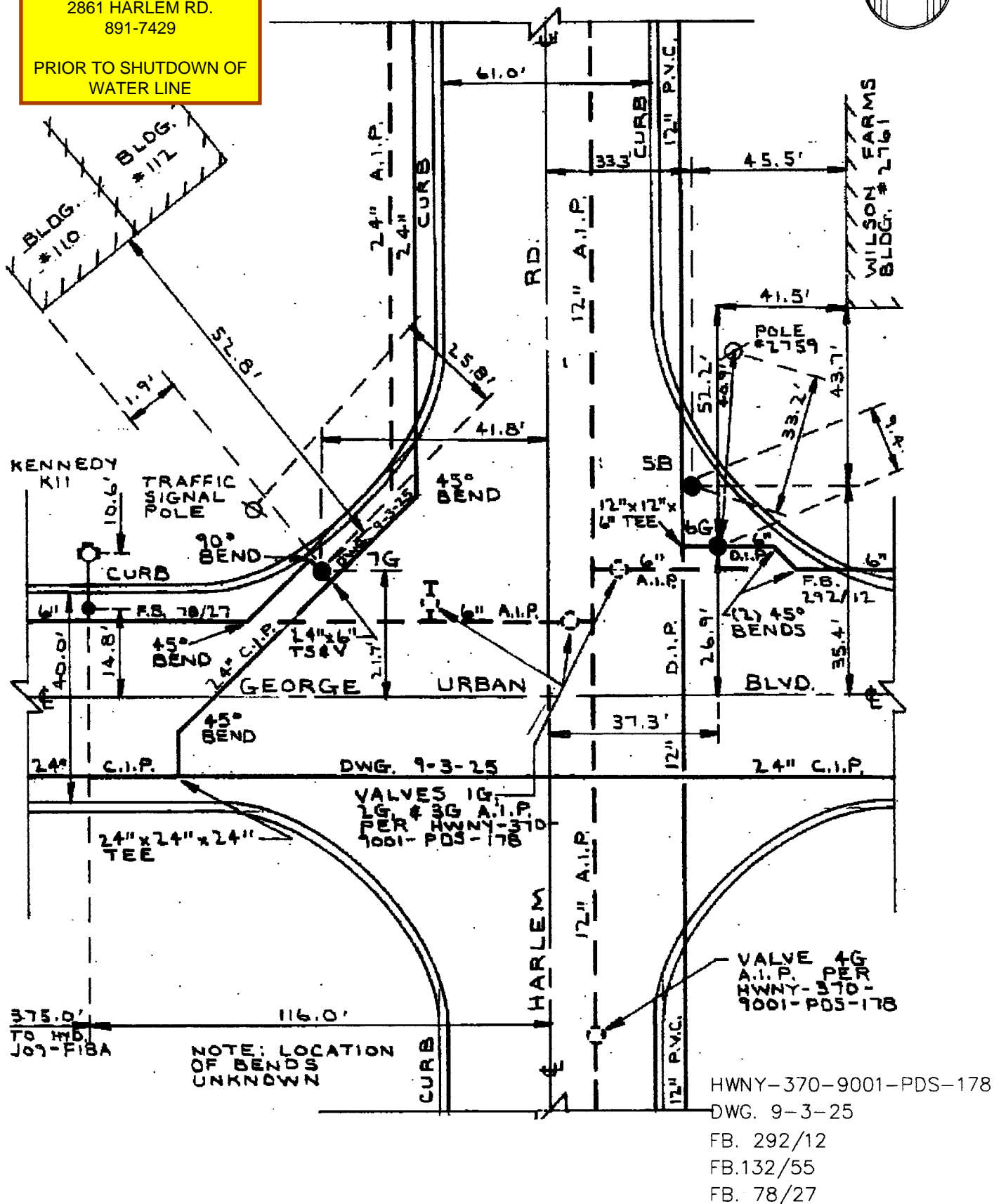



HYDR-163-7720-PA
F.B. 191/61,74
F.B. 106/68
F.B. 38/31
DWG. 15-1-3

K09-E01
DETAIL SHT. NO.

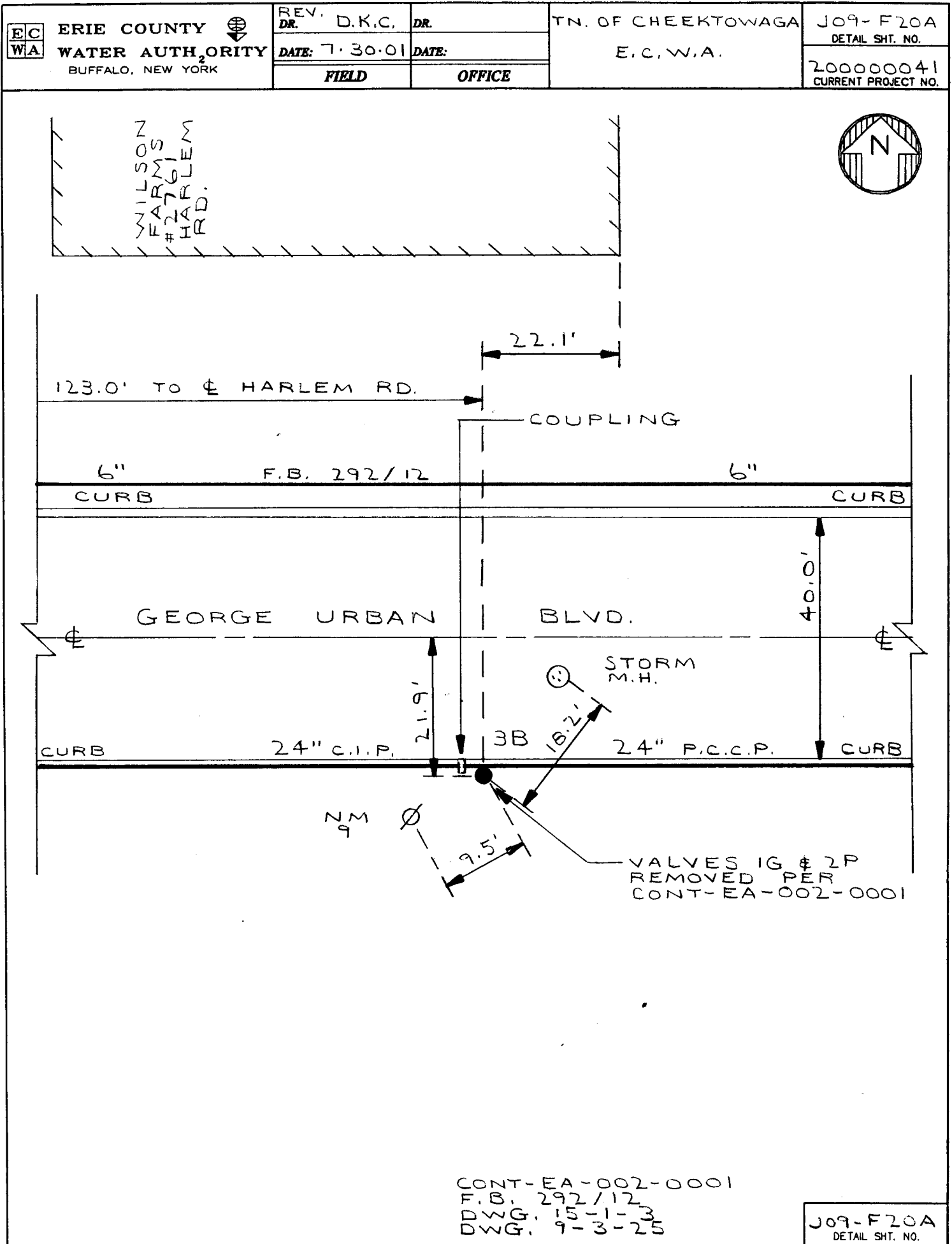
MASTER COPY

PRIOR TO SHUTDOWN OF
WATER LINE

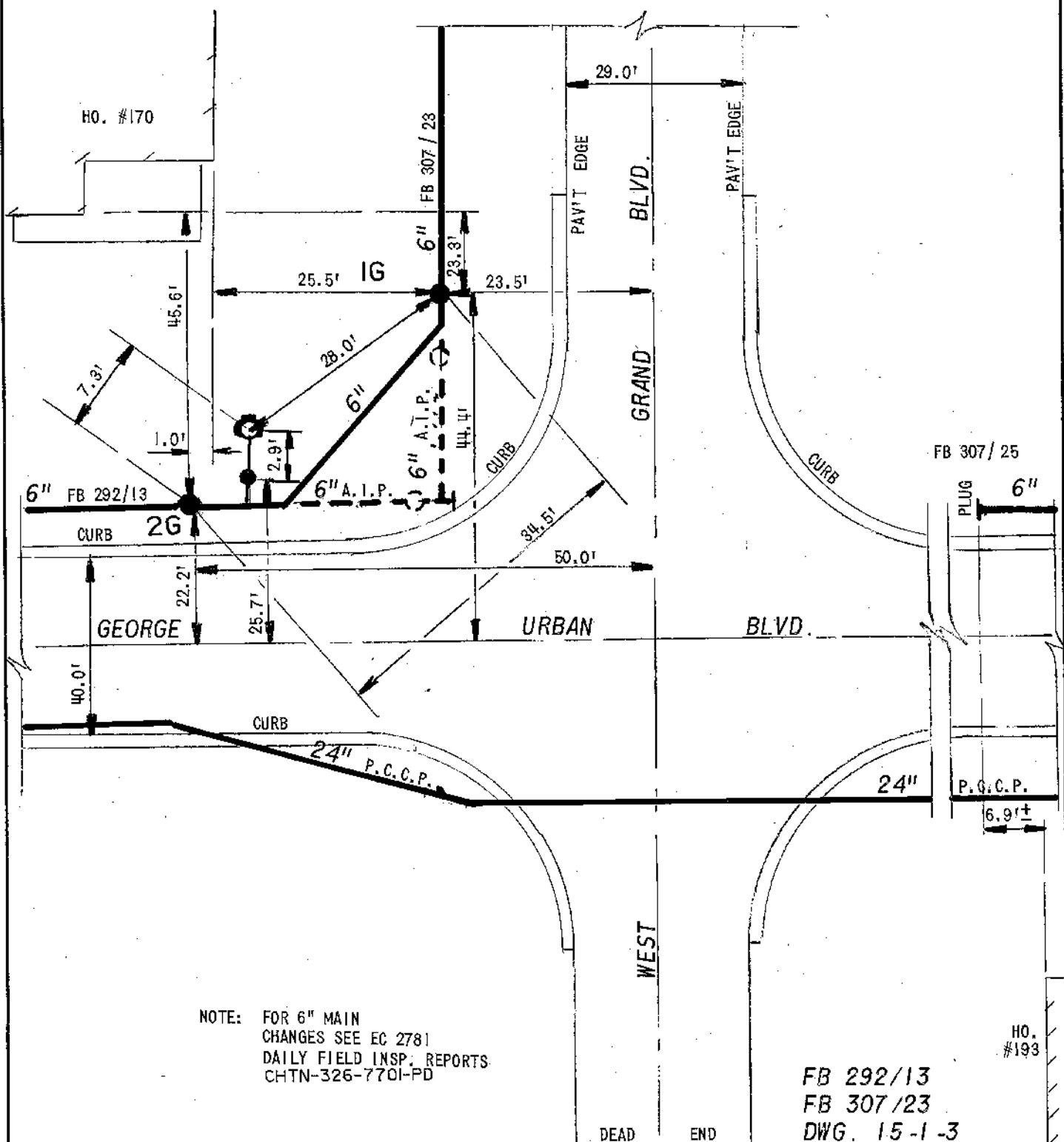


<div style="display: inline-block; border: 1px solid black; padding: 2px; text-align: center;"> EC WA </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">  </div>	REVISED DR. D.K.C.	REVISED DR. N.M.S.	TN. OF CHEEKTOWAGA EC.W.A.	J09-F19
	DATE: 9/4/96	DATE: 11/21/96		DETAIL SHT. NO.
	FIELD	OFFICE		N.T.S.

MASTER COPY



MASTER COPY



EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

REVISED DR. BY: JF
DATE: 8-9-89
NOT TO SCALE

TOWN OF CHEEKTOWAGA
E.C.W.A.

J09-F20
DETAIL SHEET NO.



HO. #216

CHIMNEY

SUPPORT POLE
FOR SIGNAL
LIGHT

6" FB 271/30

45° BEND

2G 45° BEND B & S

GEORGE

URBAN

BLVD.

24.2'

78.0'

24"

P.C.C.P.

24" P.C.C.P.

4AR

23.0'

2" AIR RELIEF
(AUTOMATIC) AND
12" PITOMETER TAP
W/2" GATE VALVE IN M.H.

ROSEWOOD

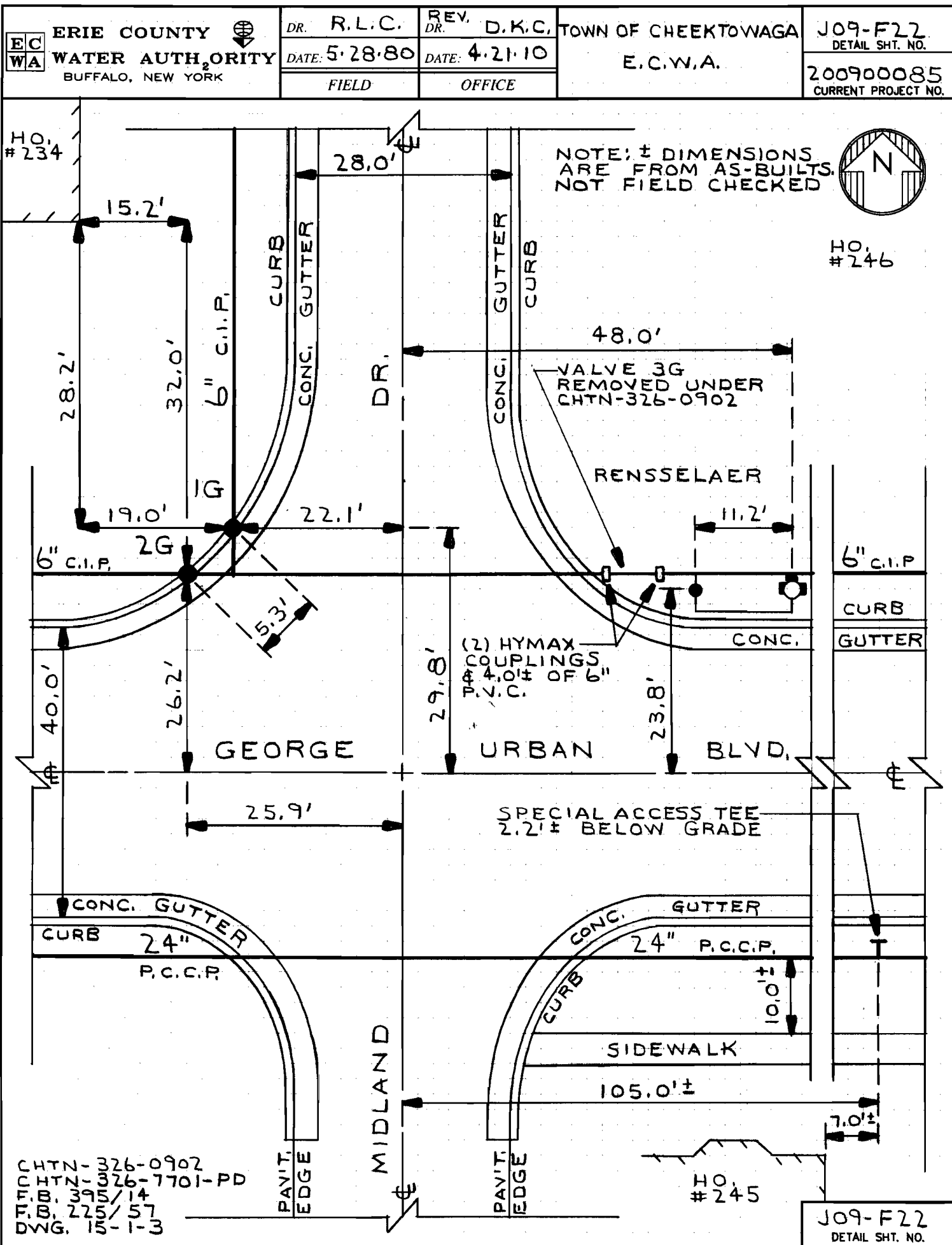
NOTE: FOR 6" MAIN
CHANGES SEE EC 2781
DAILY FIELD INSP. REPORTS
CHTN-326-7701-PDFB 220/6
FB 271/30
DWG. 15-1-3**EC ERIE COUNTY**
WA WATER AUTHORITY
BUFFALO, NEW YORKREVISED
DR. BY: JF
DATE: 8-9-89
NOT TO SCALE

TOWN OF CHEEKTOWAGA

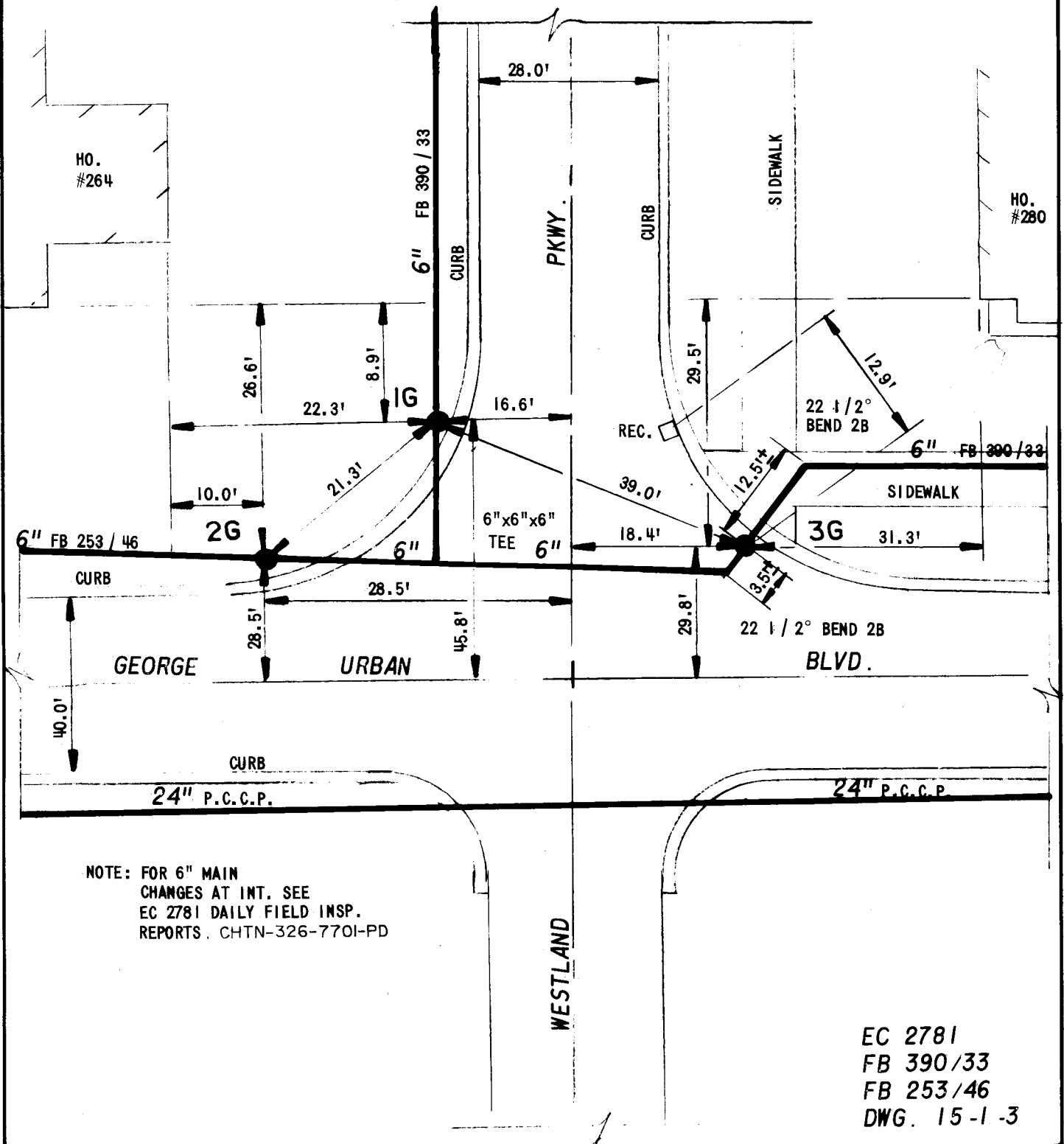
E.C.W.A.

JO9-F21

DETAIL SHEET NO.



MASTER COPY



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. BY: JF
DATE: 8-9-89
NOT TO SCALE

TOWN OF CHEEKTOWAGA
E.C.W.A.

J09-F23
DETAIL SHEET NO.



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED
DR. D.K.C.

DATE: 11/4/91

FIELD

REVISED
DR. R.B.B.

DATE: 06-29-11

OFFICE

TOWN OF CHEEKTOWAGA

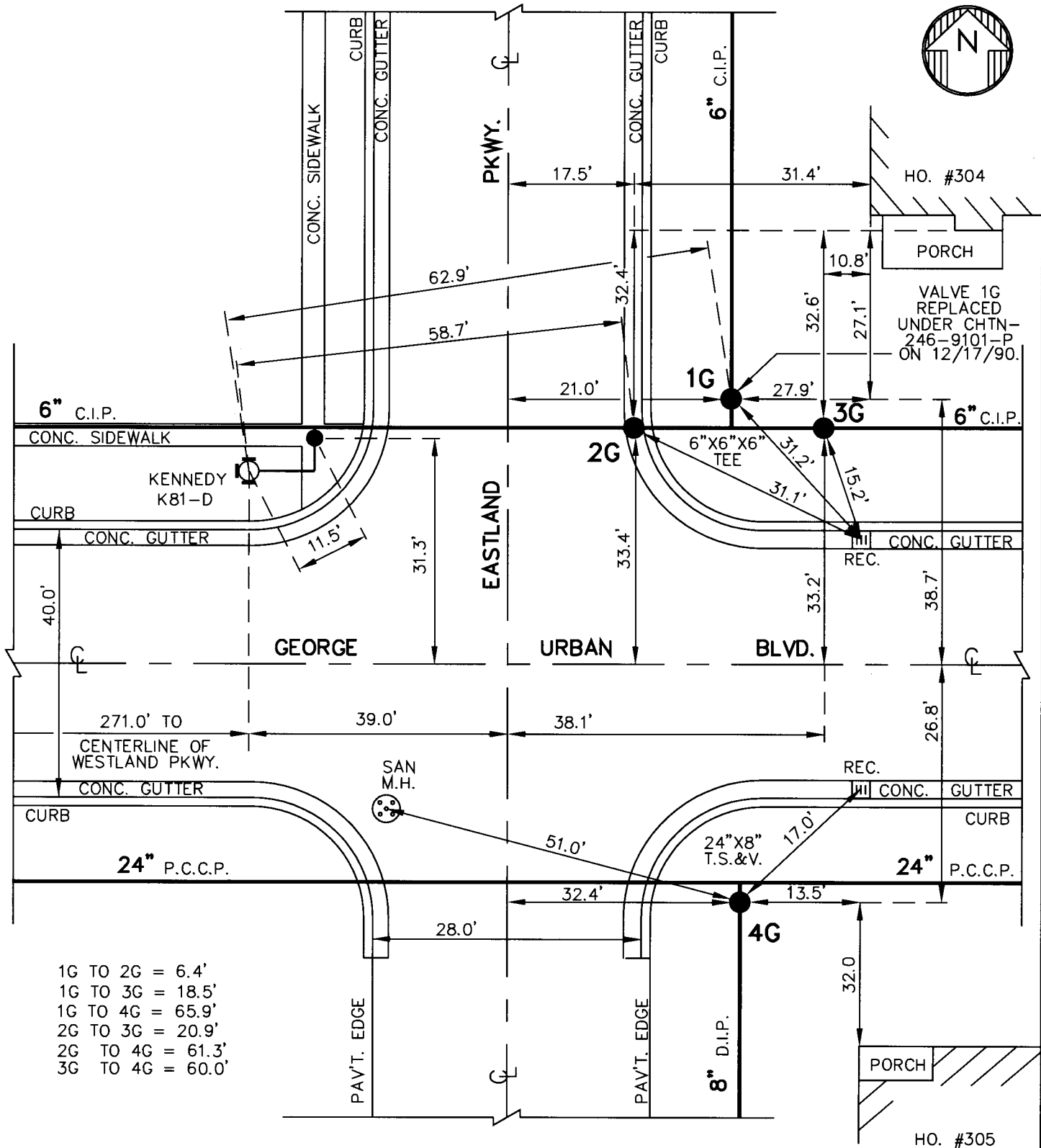
E.C.W.A.

J09-F24

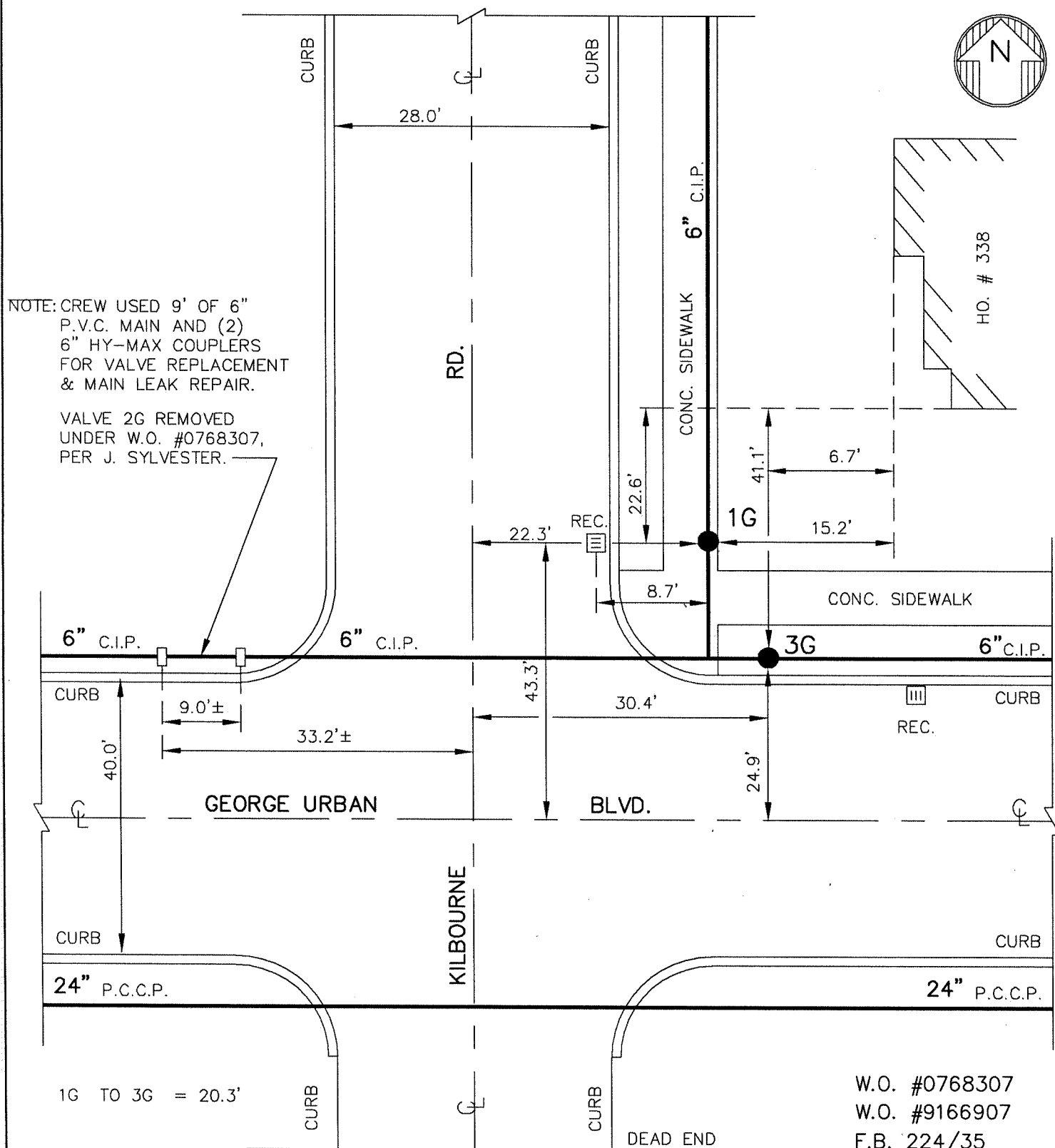
DETAIL SHT. NO.

201100423

CURRENT PROJECT NO.



MASTER COPY



NOTE: ± DIMENSIONS ARE FROM FOREMAN'S REQUEST FOR DETAIL REVISION. DETAIL DRAWN ON CAD SYSTEM.

NOTE: FOR 6" MAIN CHANGES
SEE E.C. 2781 DAILY
FIELD INSP. REPORTS
CHTN-326-7701-PD

W.O. #0768307
W.O. #9166907
F.B. 224/35
F.B. 229/72
F.B. 230/30
DWG. 15-1-3

J09-G17A

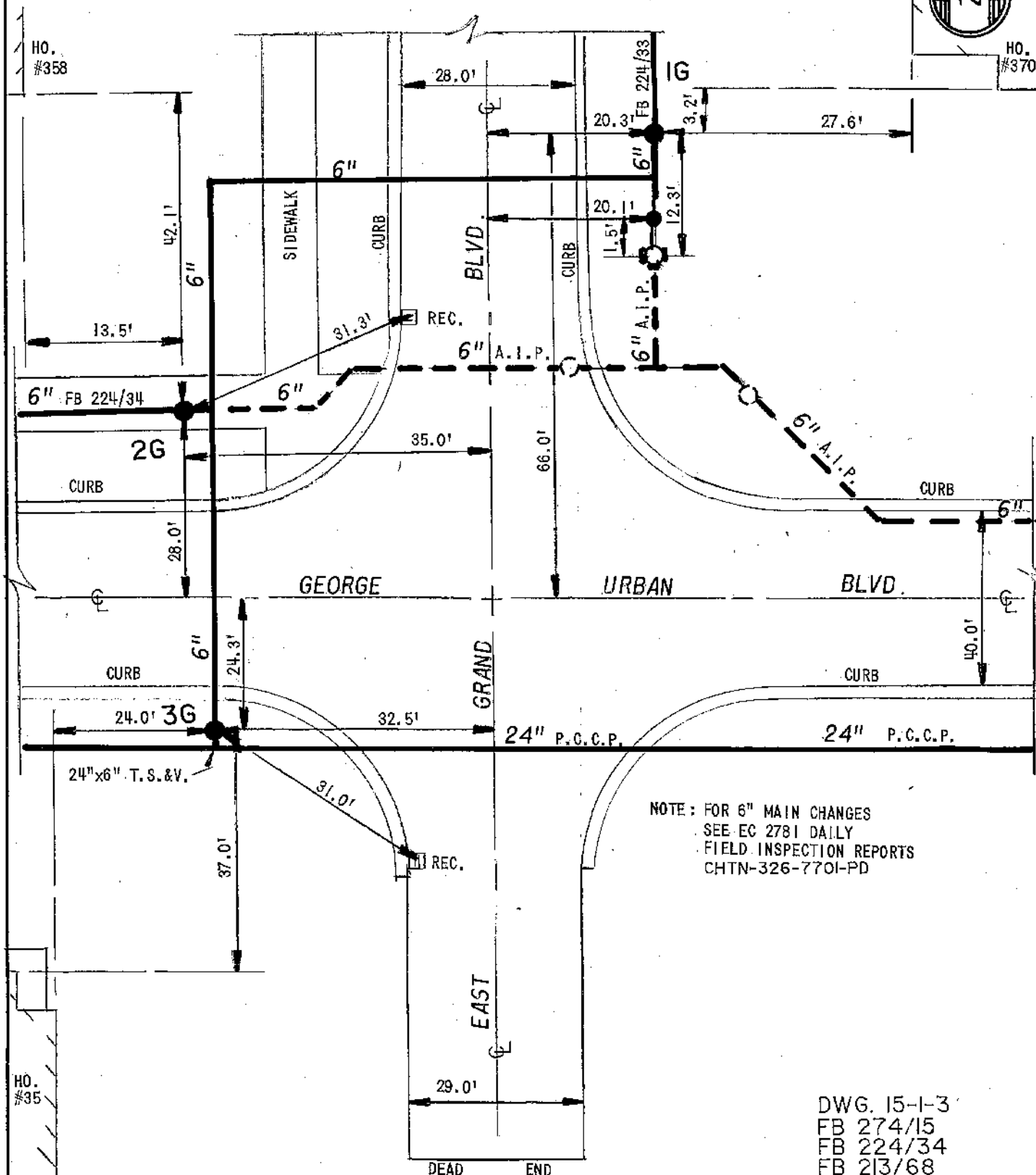
DETAIL SHT. NO.

MASTER COPY



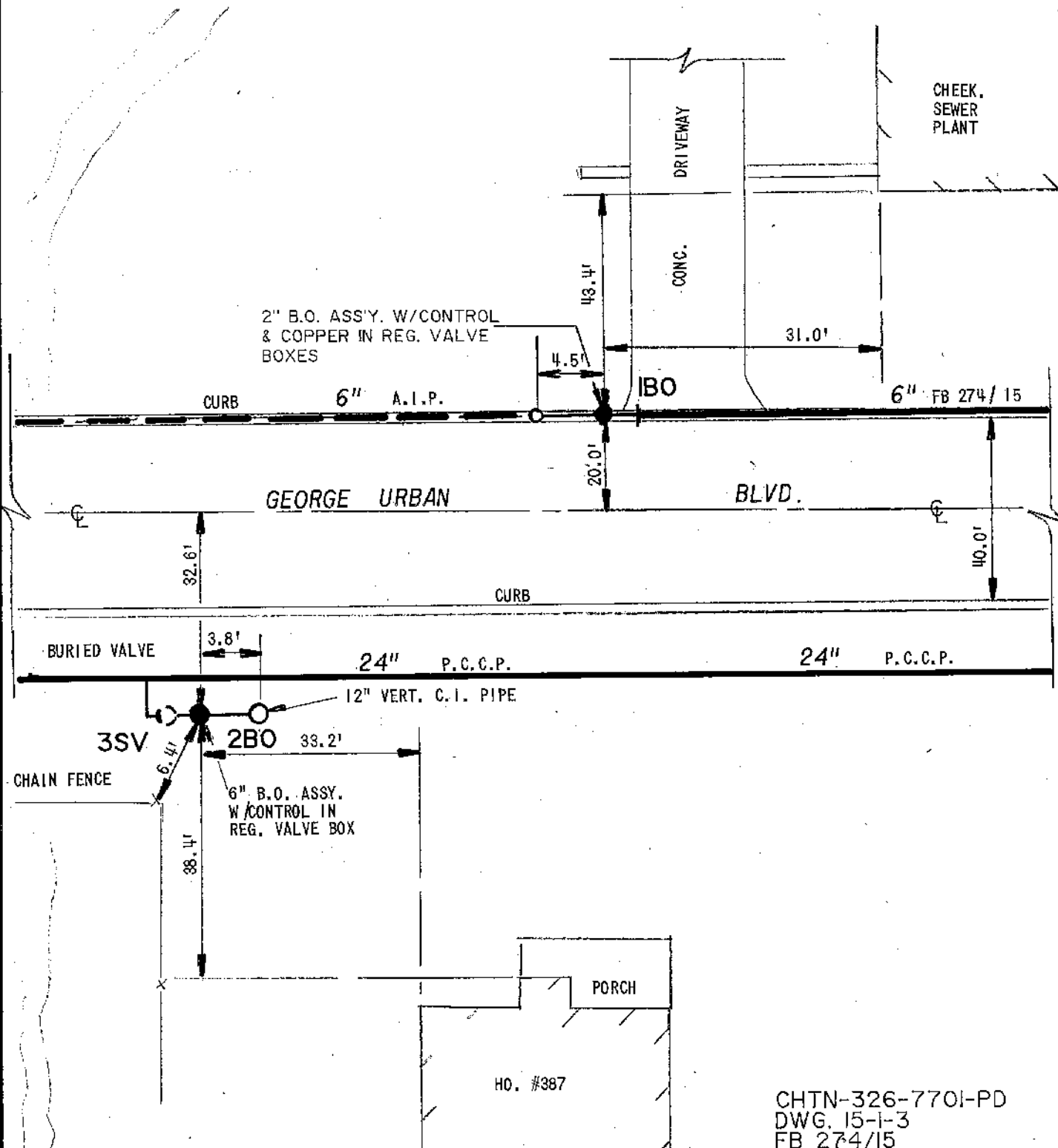
HO.
#358

HO.
#370

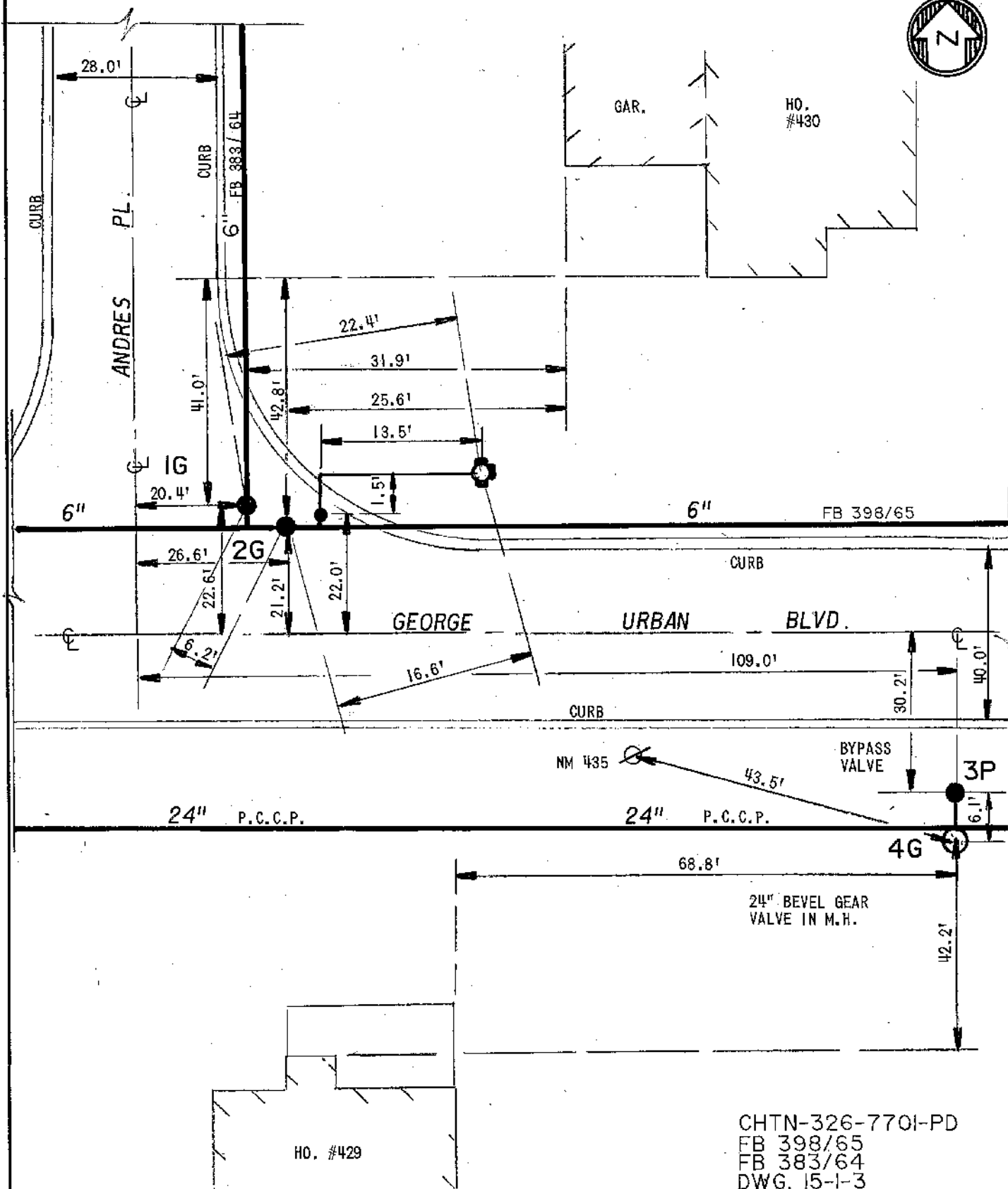


NOTE: FOR 6" MAIN CHANGES
SEE EC 2781 DAILY
FIELD INSPECTION REPORTS
CHTN-326-7701-PD

DWG. 15-I-3
FB 274/15
FB 224/34
FB 213/68



J09-G18A
DETAIL SHT. NO.





ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED
DR. DKC

DATE: 11-23-98

FIELD

REVISED
DR. DCC

DATE: 2-18-02

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

J09-G20A

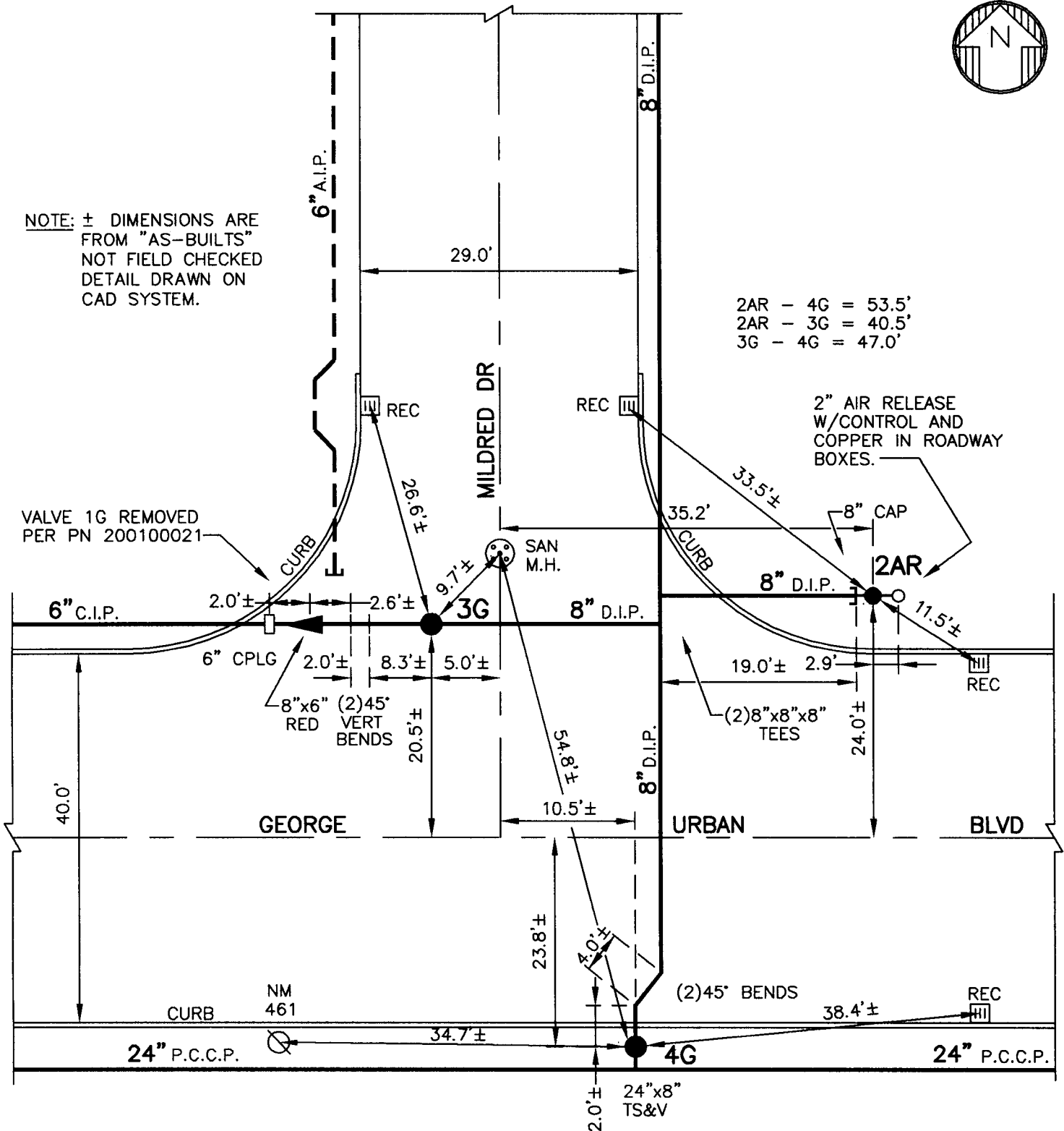
DETAIL SHT. NO.

200100021

CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE
FROM "AS-BUILTS"
NOT FIELD CHECKED
DETAIL DRAWN ON
CAD SYSTEM.



CONT-DA-002-0101

CHTN-609-9801-P

CHTN-326-7701

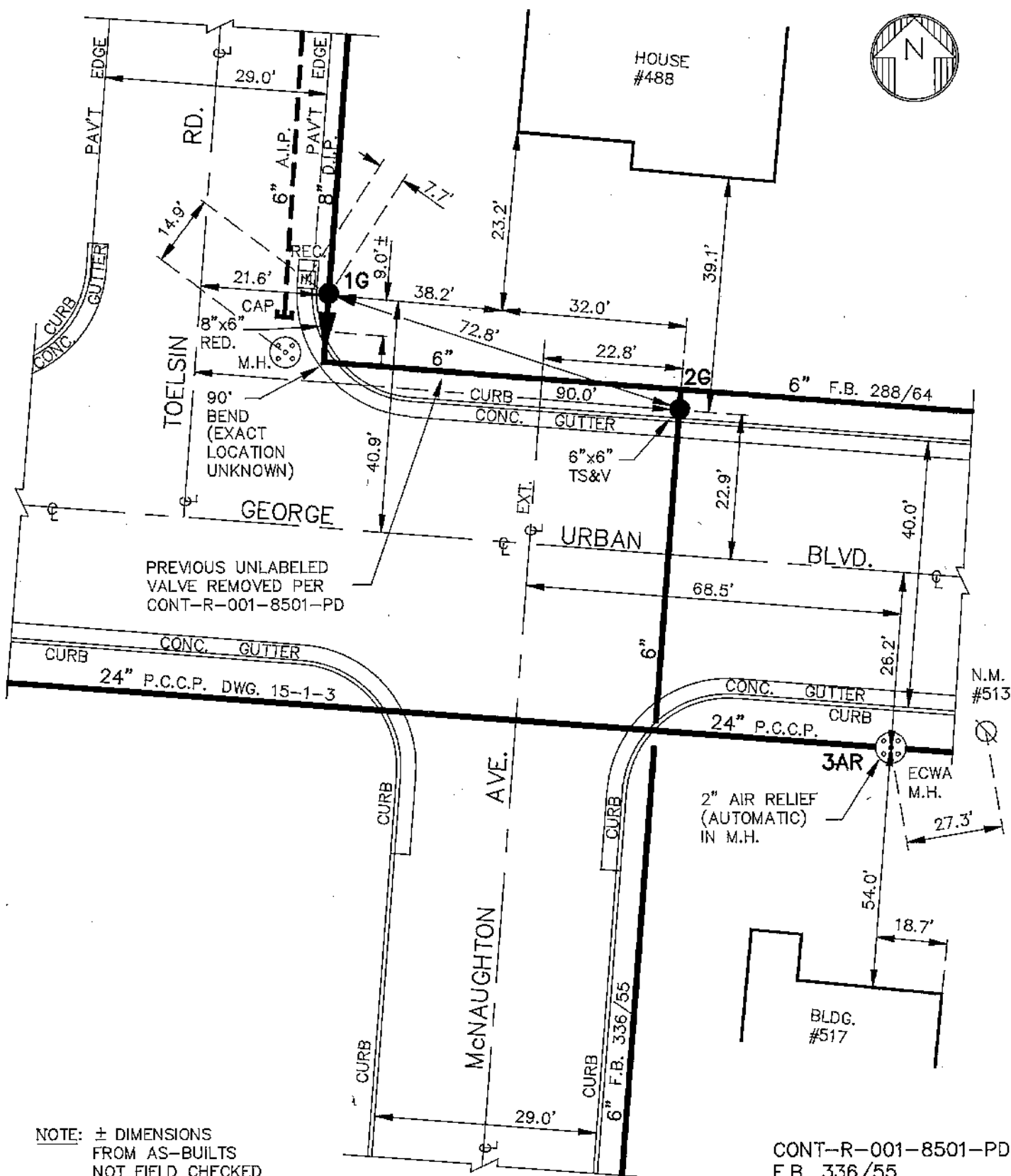
FB 398/66

DWG 15-1-3

J09-G20A

DETAIL SHT. NO.

MASTER COPY



NOTE: ± DIMENSIONS
FROM AS-BUILTS
NOT FIELD CHECKED
DETAILS DRAWN ON
CAD SYSTEM

CONT-R-001-8501-PD
F.B. 336/55
F.B. 288/64
F.B. 269/1
DWG. 15-1-3

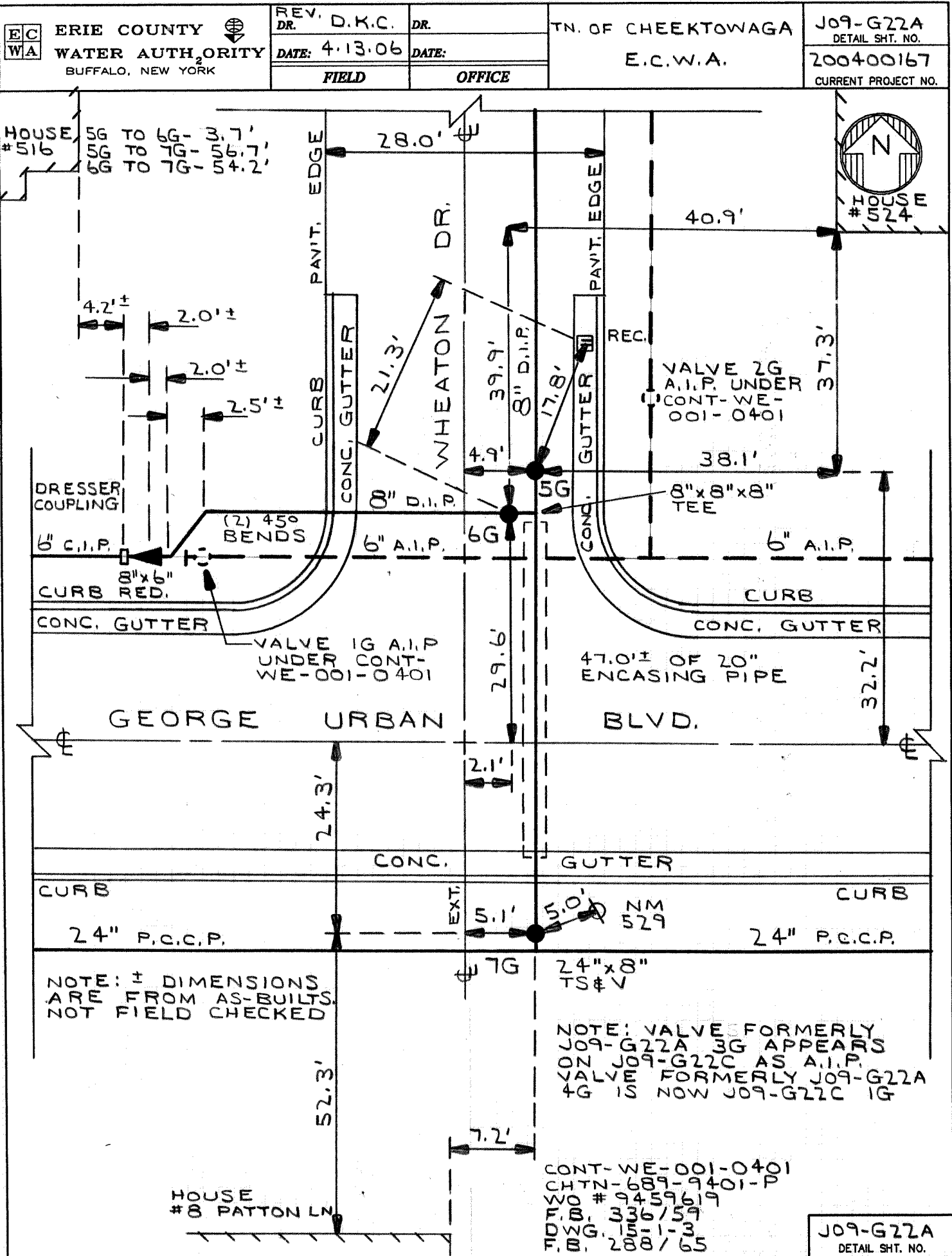


ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. FDB
DATE: 10-22-92
N.T.S.

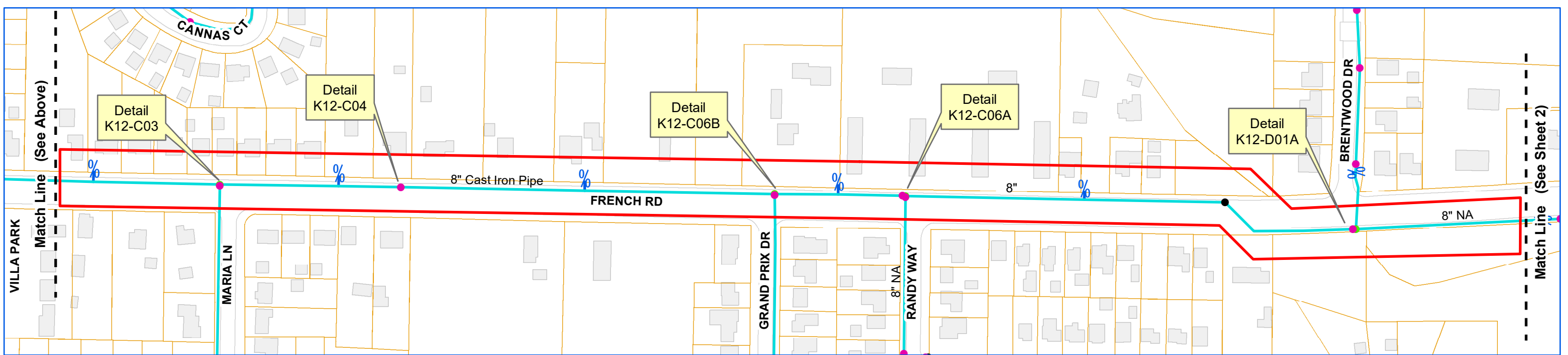
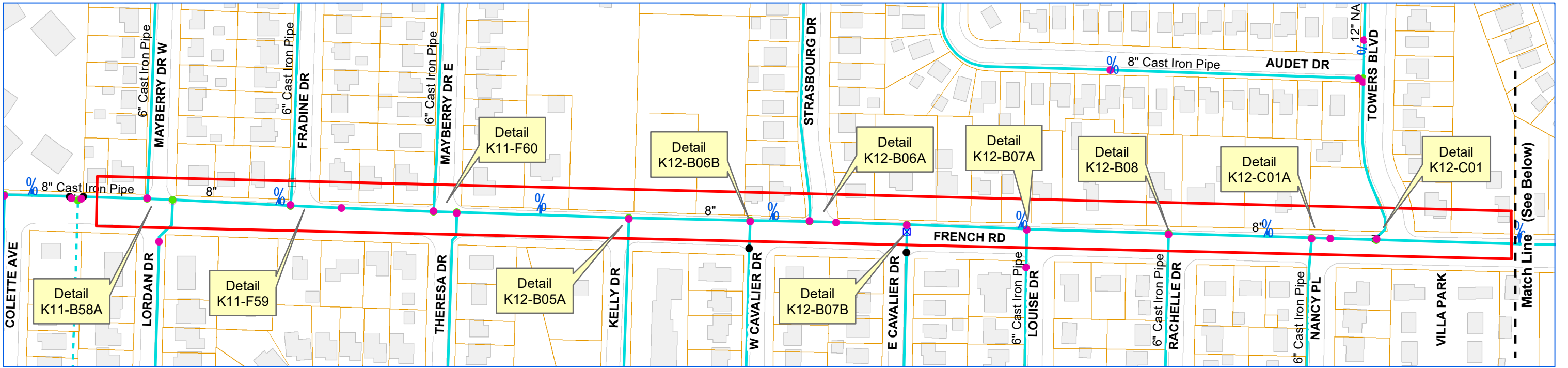
TOWN OF CHEEKTOWAGA
E.C.W.A.

J09-G21
DETAIL SHEET NO.



MAYEN COPY

TOWN OF CHEEKTOWAGA

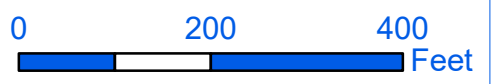
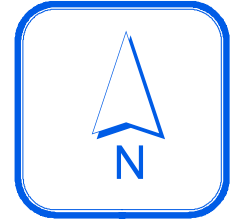


ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "F"
FRENCH RD. FROM MAYBERRY DR. W. TO BORDEN RD.
TOWN OF CHEEKTOWAGA

Project limits total 8,500' in length

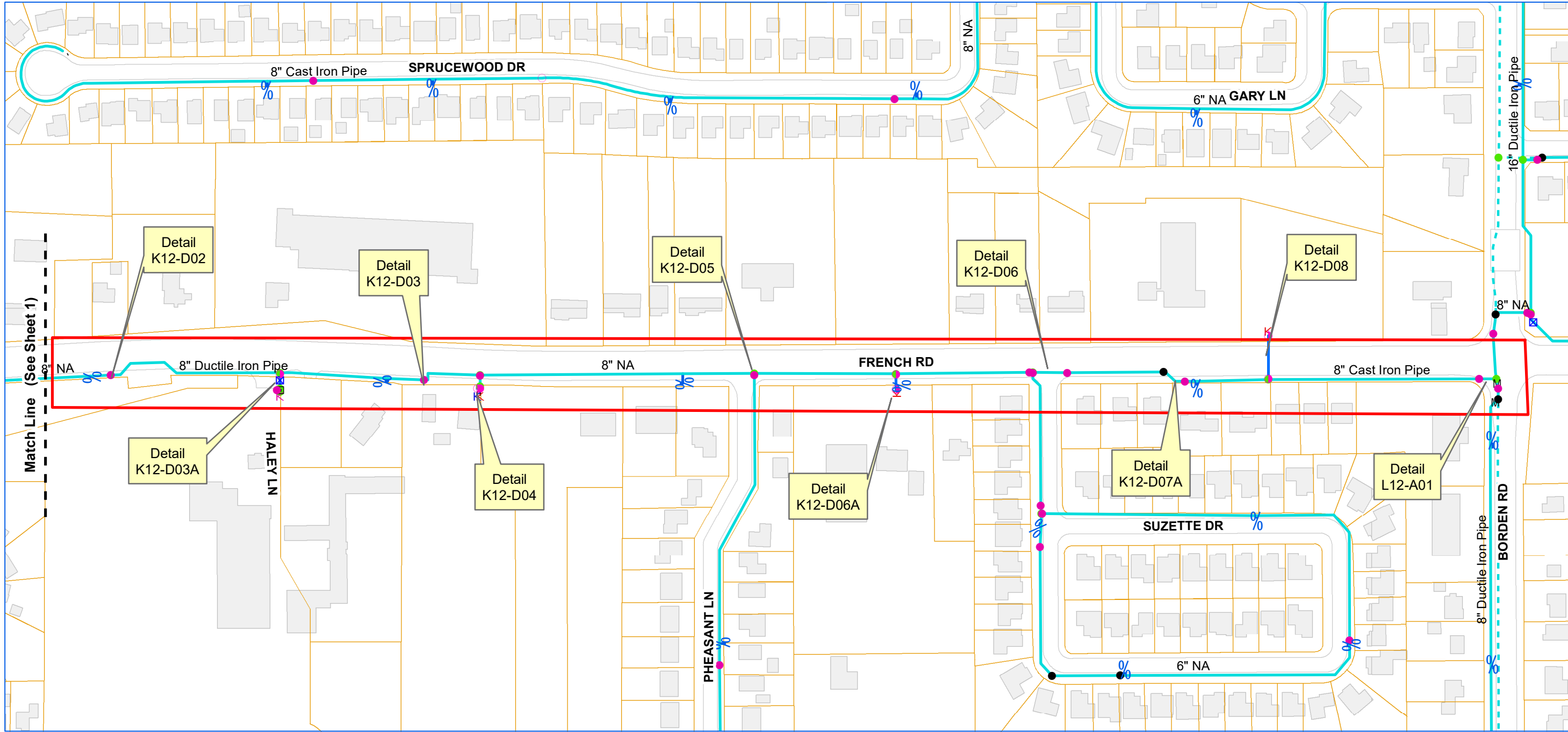
SHEET 1



1 inch = 200 feet

DMC

TOWN OF CHEEKTOWAGA

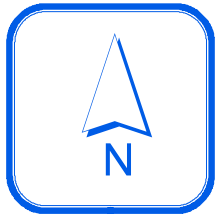


ERIE COUNTY WATER AUTHORITY
BUFFALO, NY

ECWA-223-2002 / ECWA P.N. 202000002
CRITICAL INFRASTRUCTURE IMPROVEMENTS
CONTRACT "F"
FRENCH RD. FROM MAYBERRY DR. W. TO BORDEN RD.
TOWN OF CHEEKTOWAGA

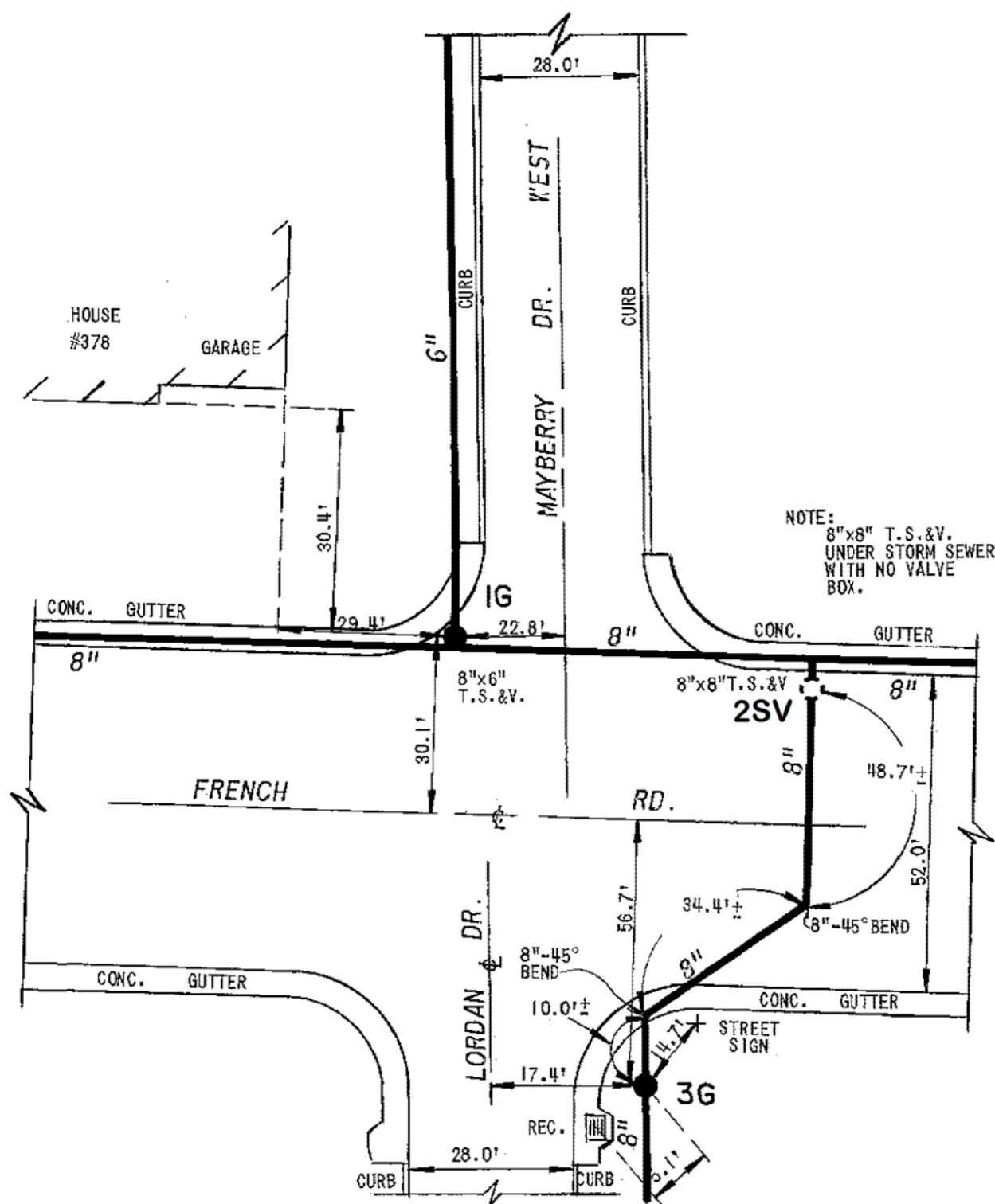
Project limits total 8,500' in length

SHEET 2

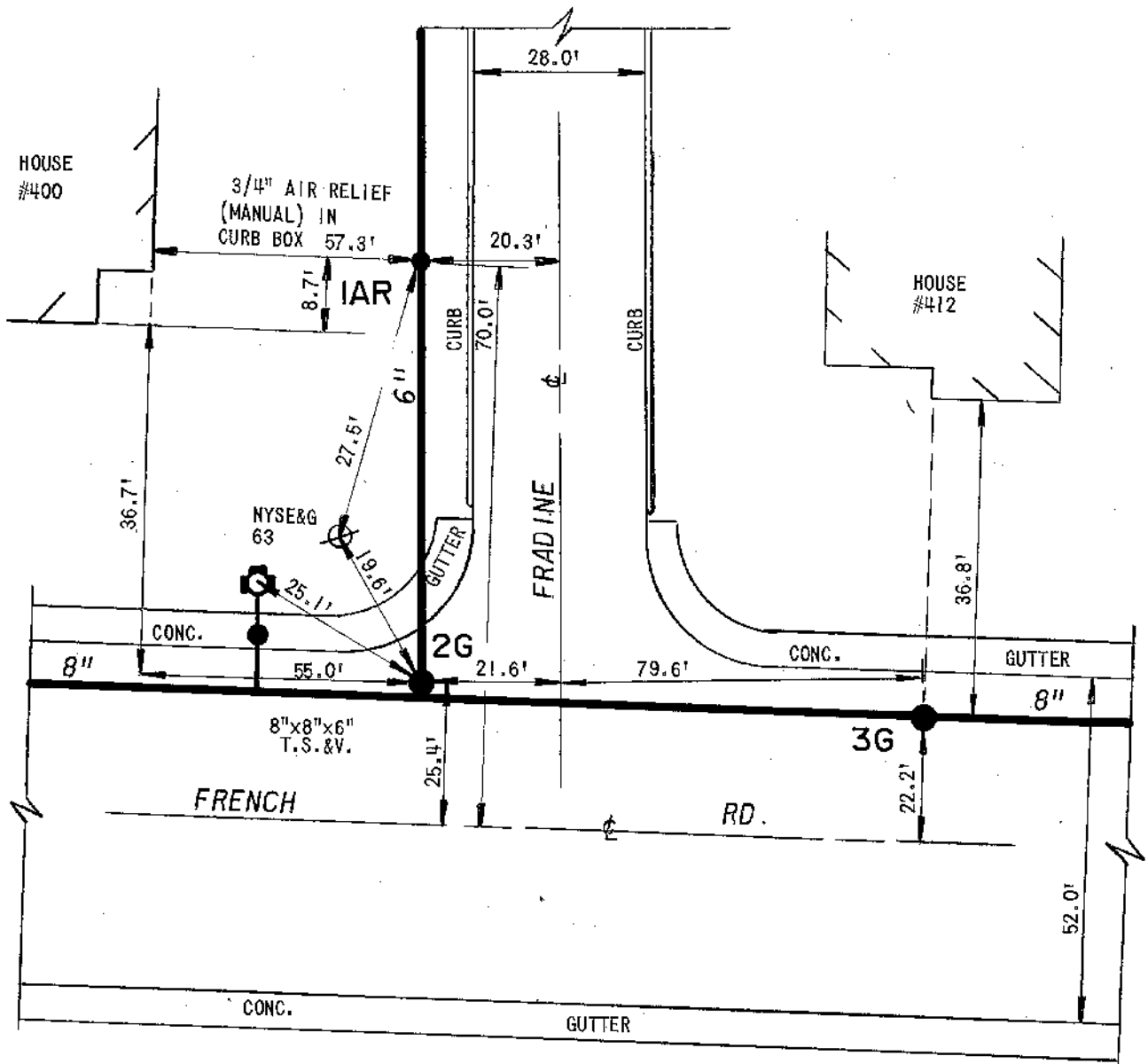


1 inch = 200 feet

DMC

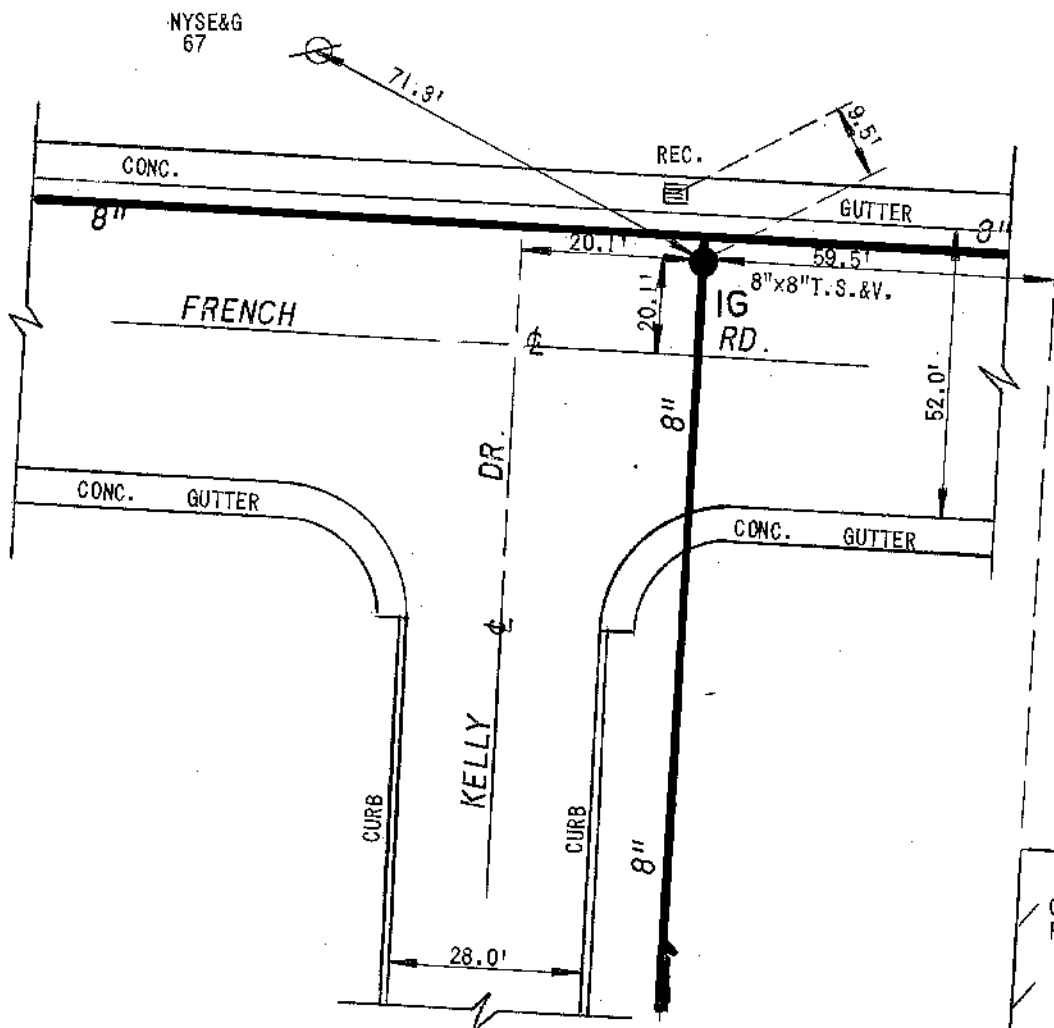


FB.415/17
FB.401/47



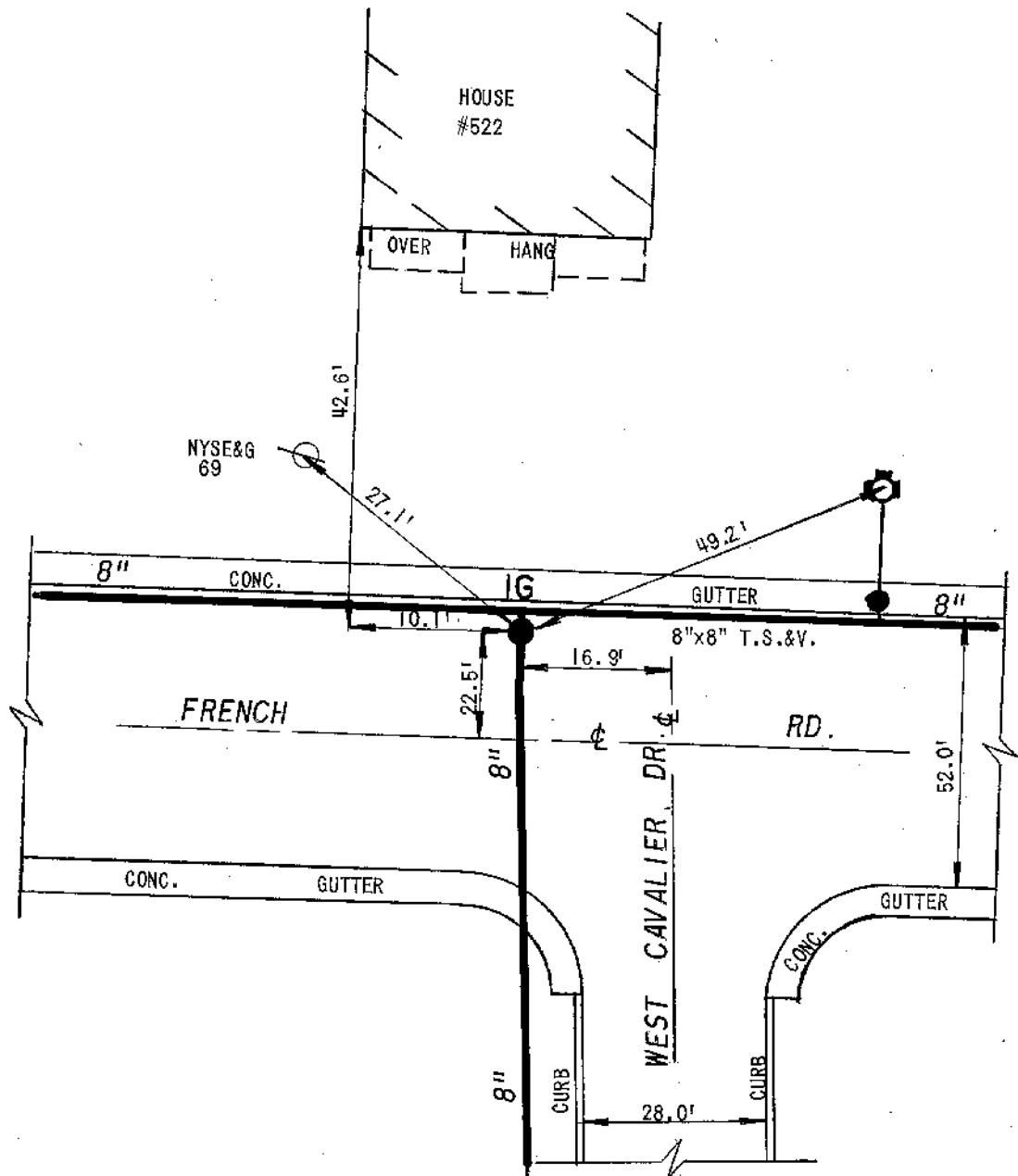
FB.401/49

DETAIL SHEET NO.

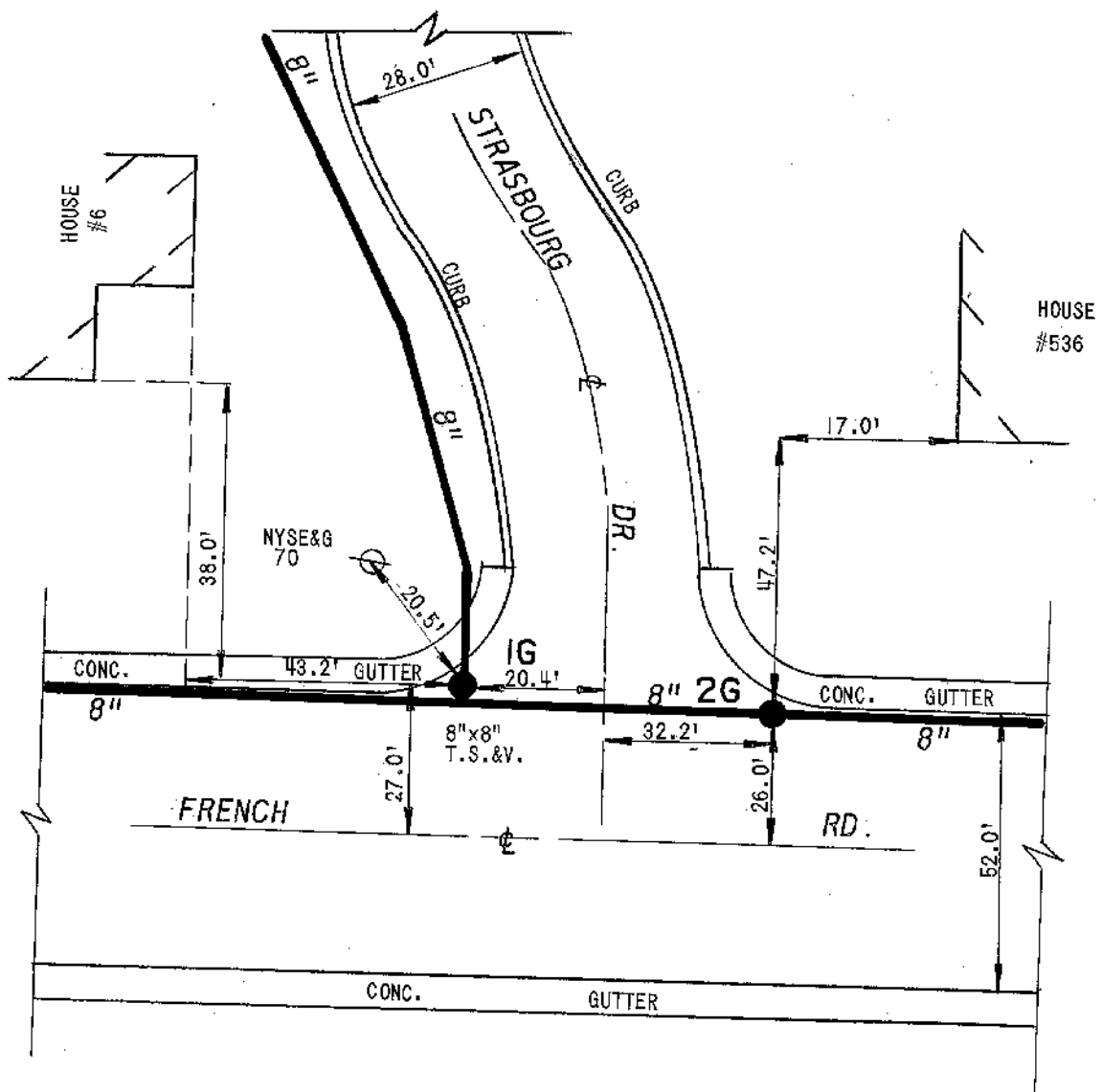


CONVENIENT
FOOD MART

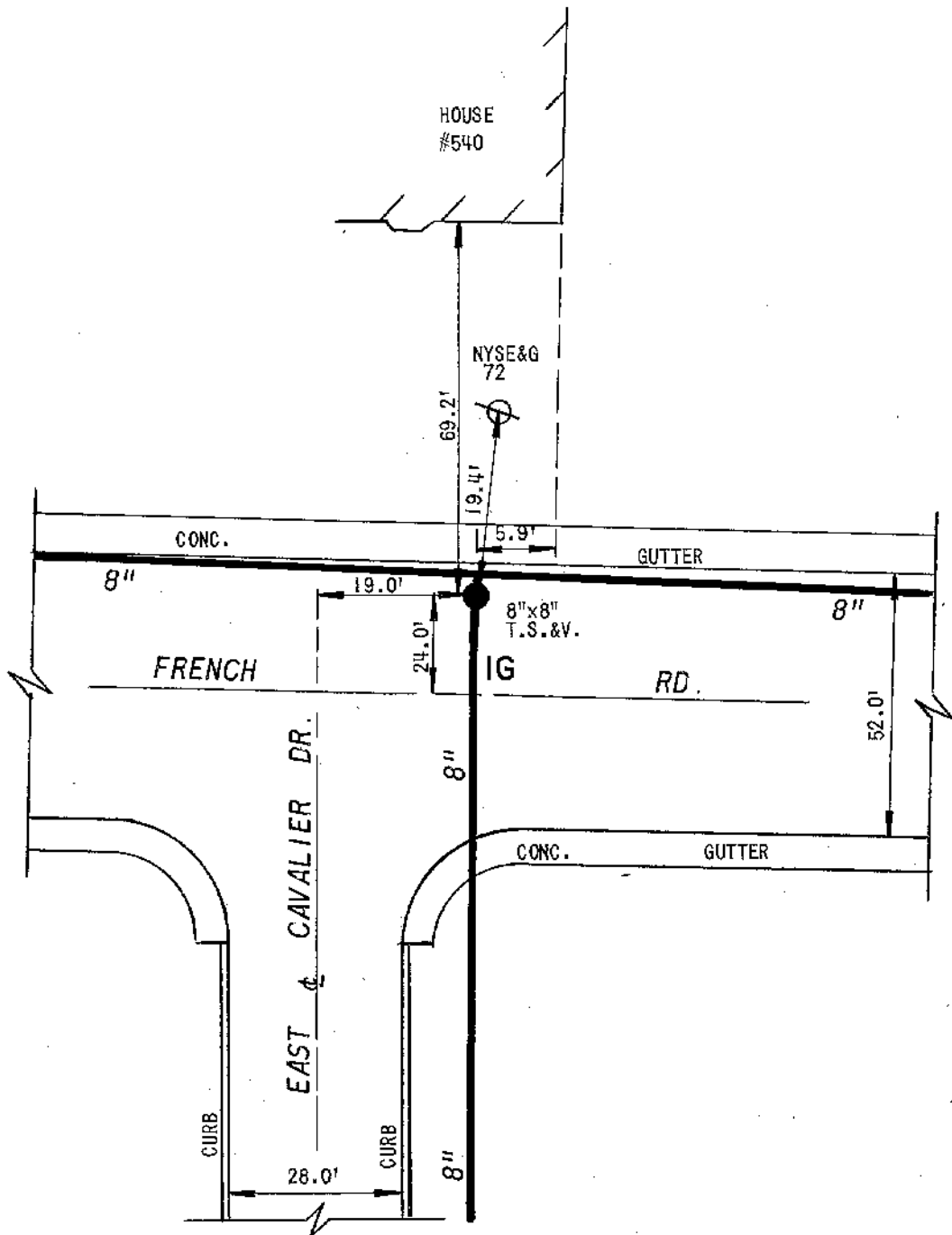
FRENCH RD.
COMMUNITY PLAZA



FB.416/64



FB.423/21
FB.118/3

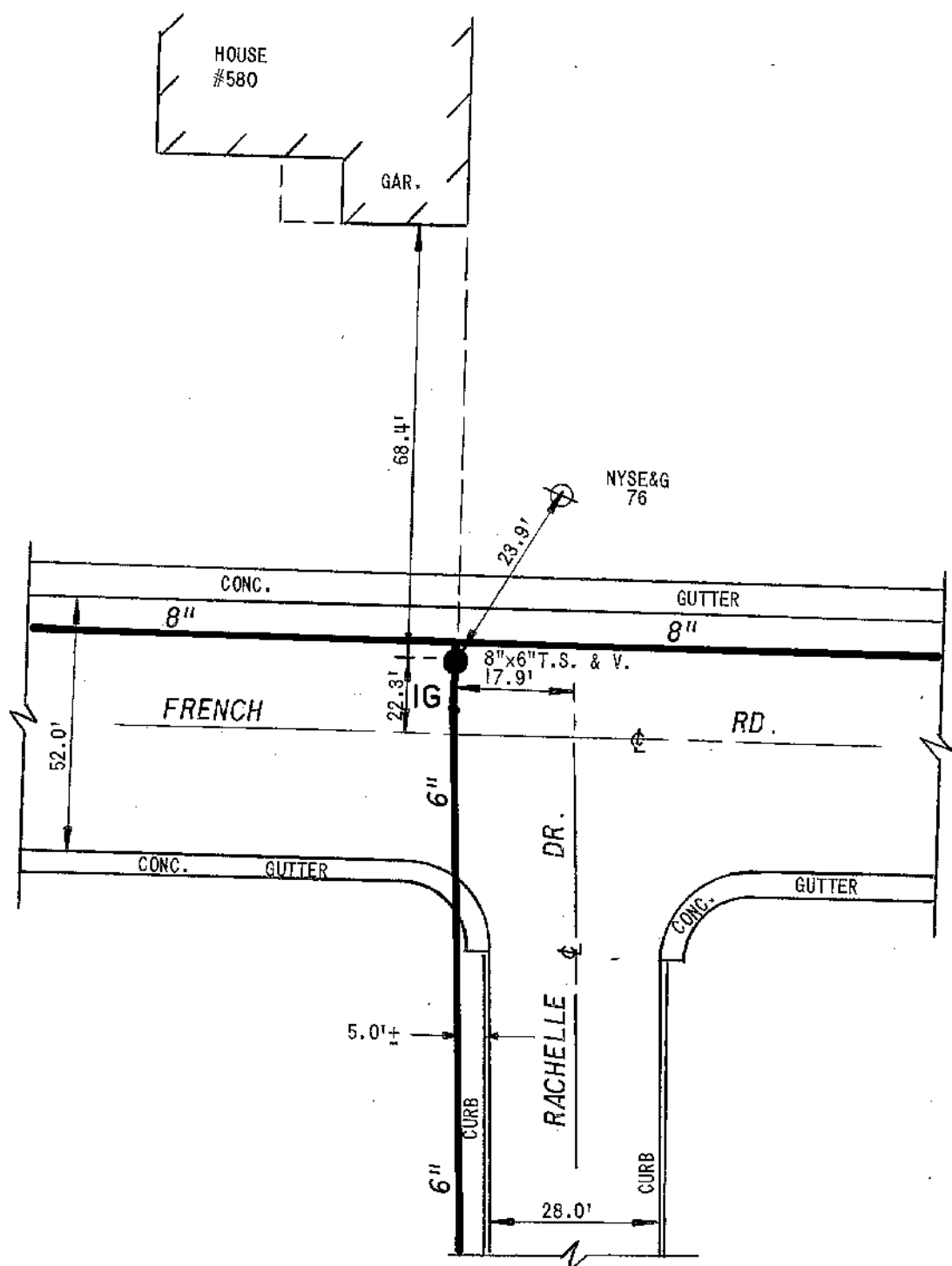


FB.416/69

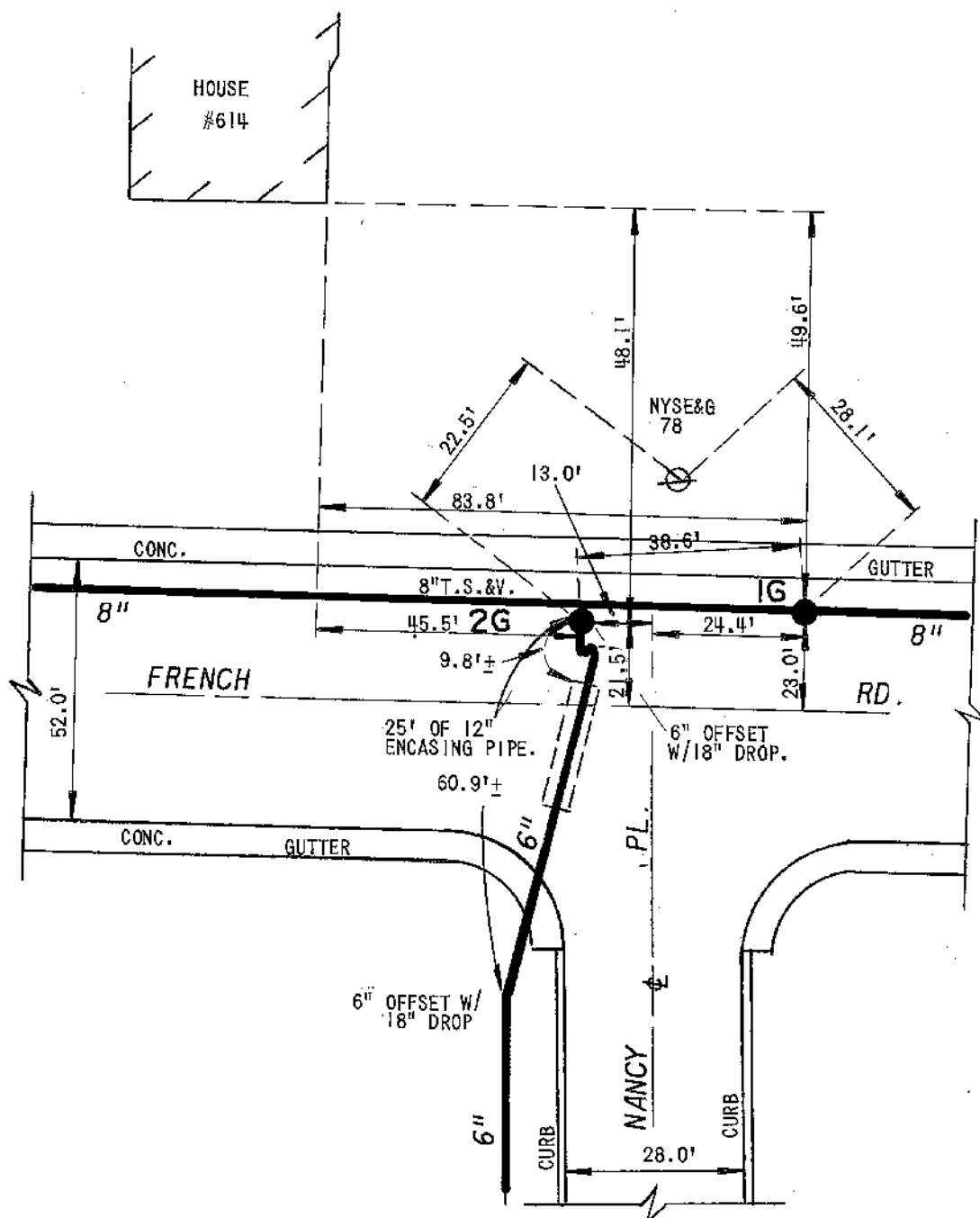


DETAIL SHT. NO.

MASTER COPY



FB, 390/65



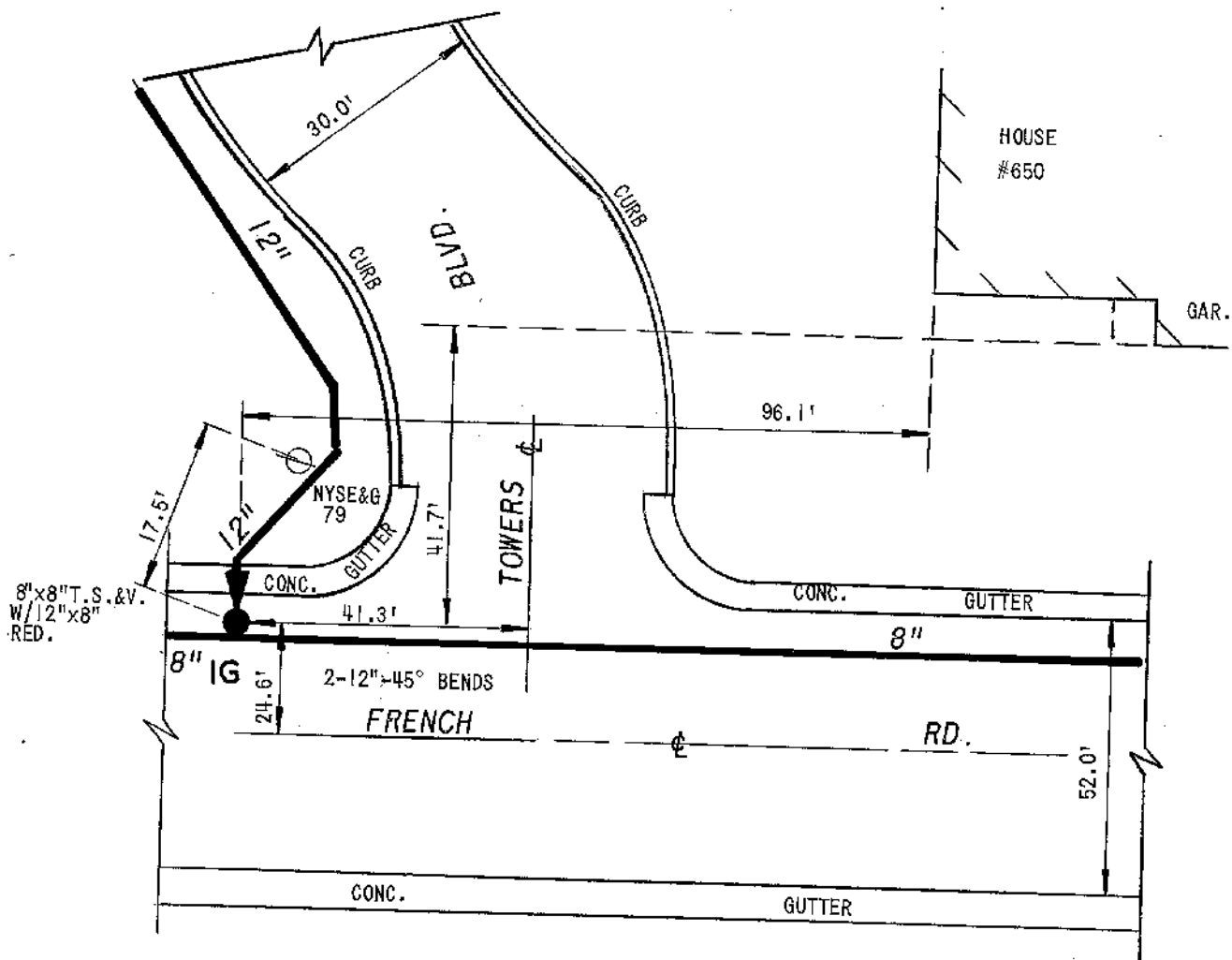
FB.395/62
FB.118/6

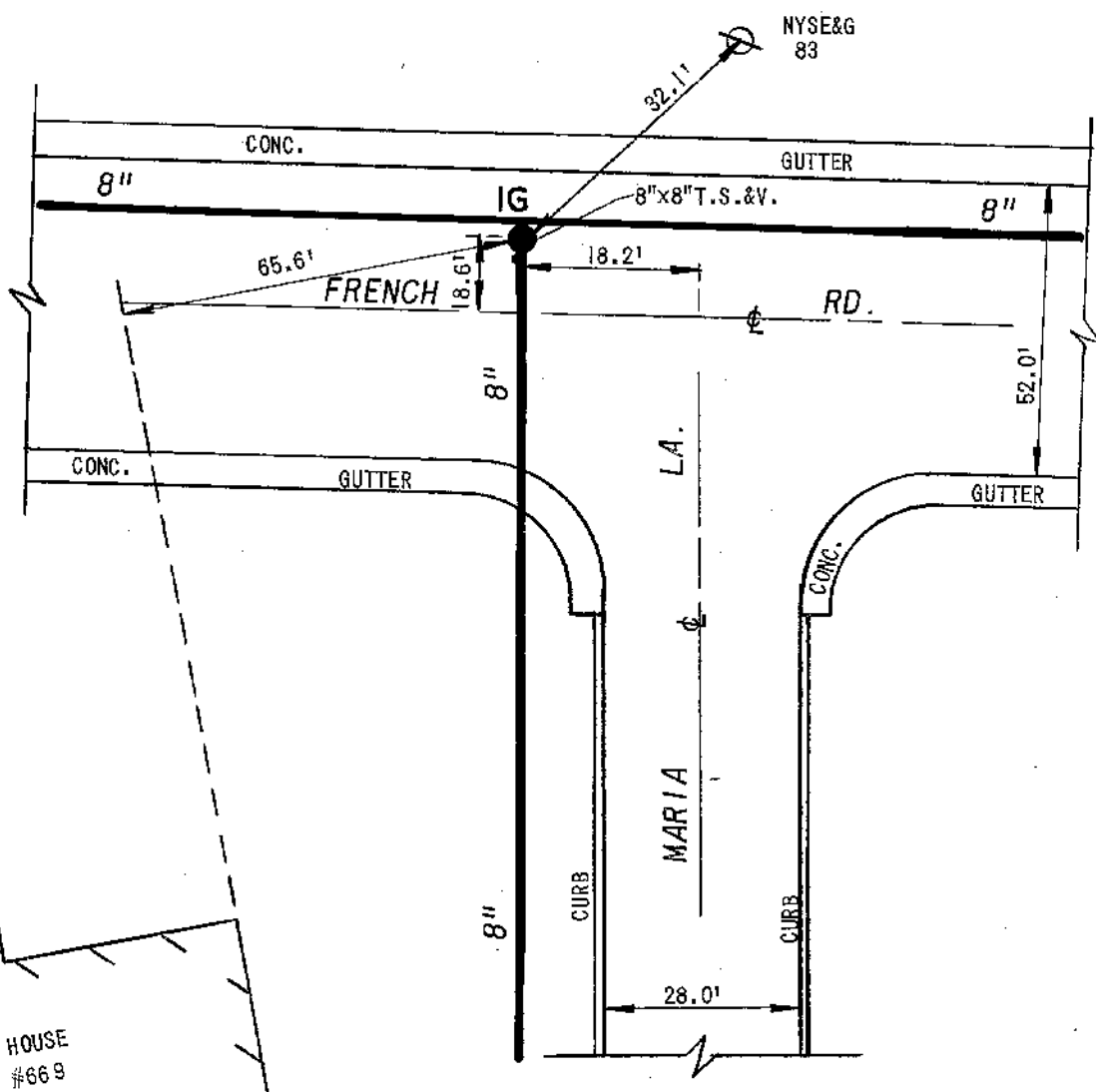
EC ERIE COUNTY
WA WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. BY: JF
DATE: 8-21-89
SCALE: NONE

TOWN OF CHEEKTOWAGA
E.C.W.A.

DETAIL SHEET NO.
K12-CO1A

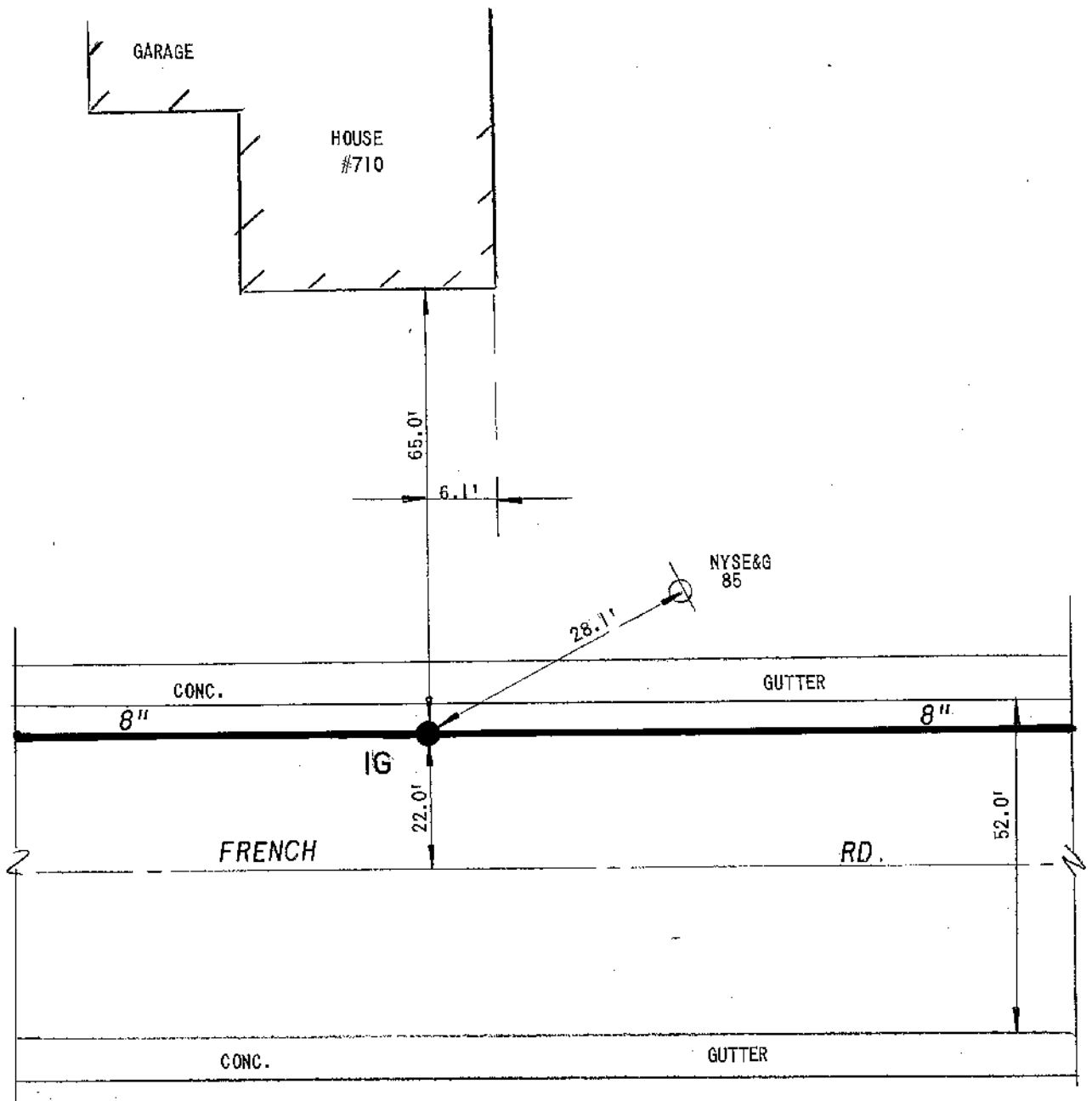


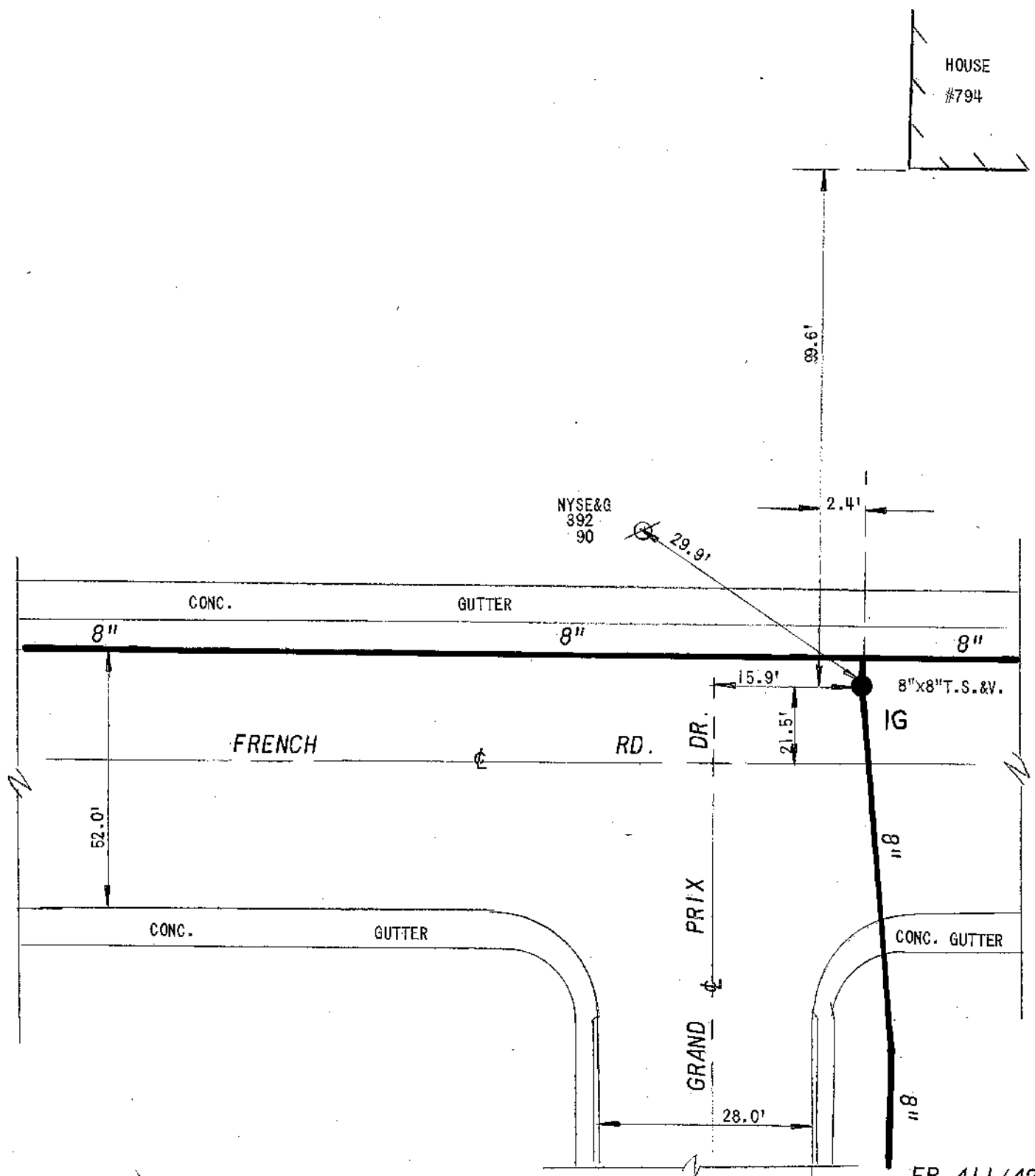


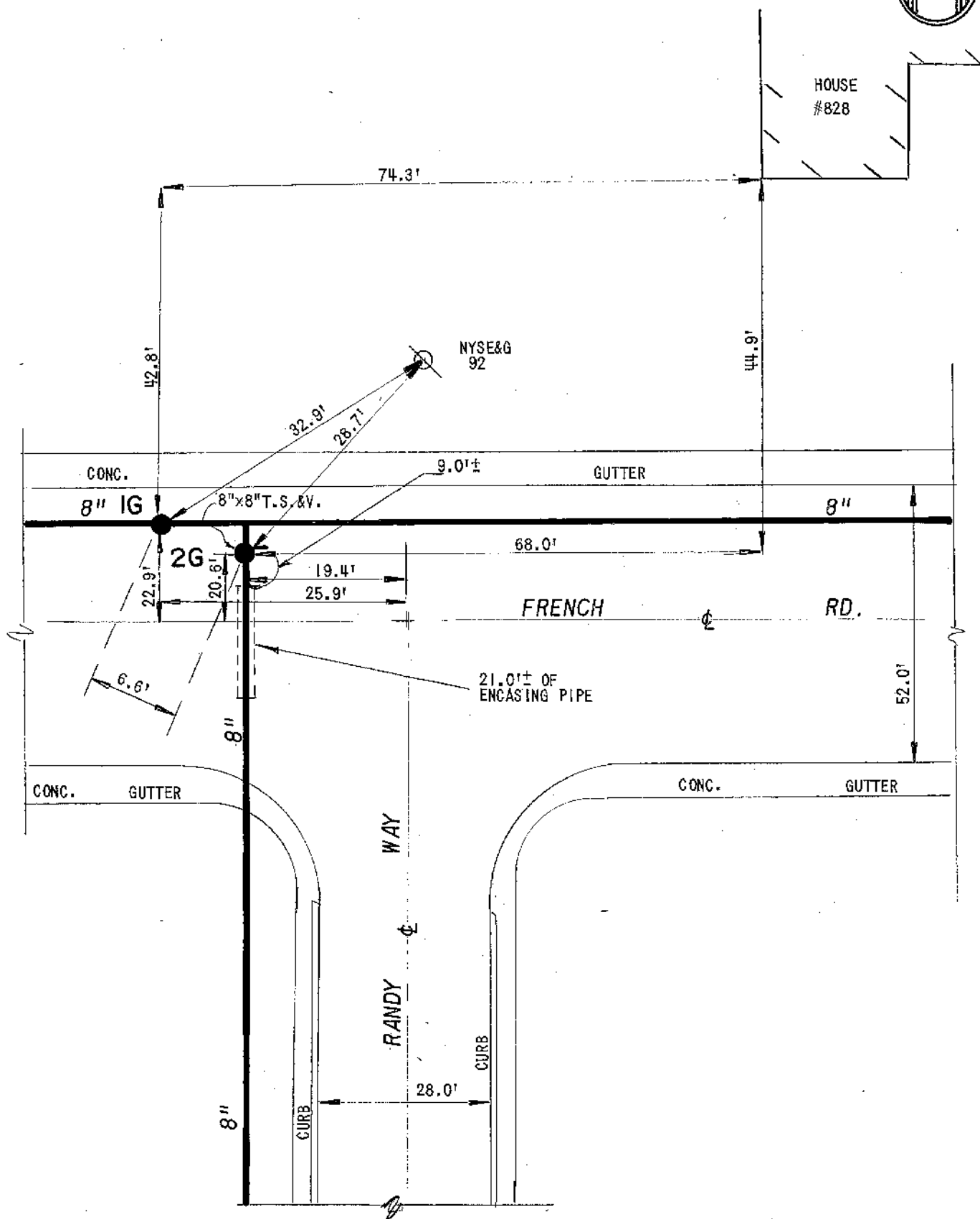
FB. 406/40

DETAIL SHEET NO.

K12-C03







FB.394/8

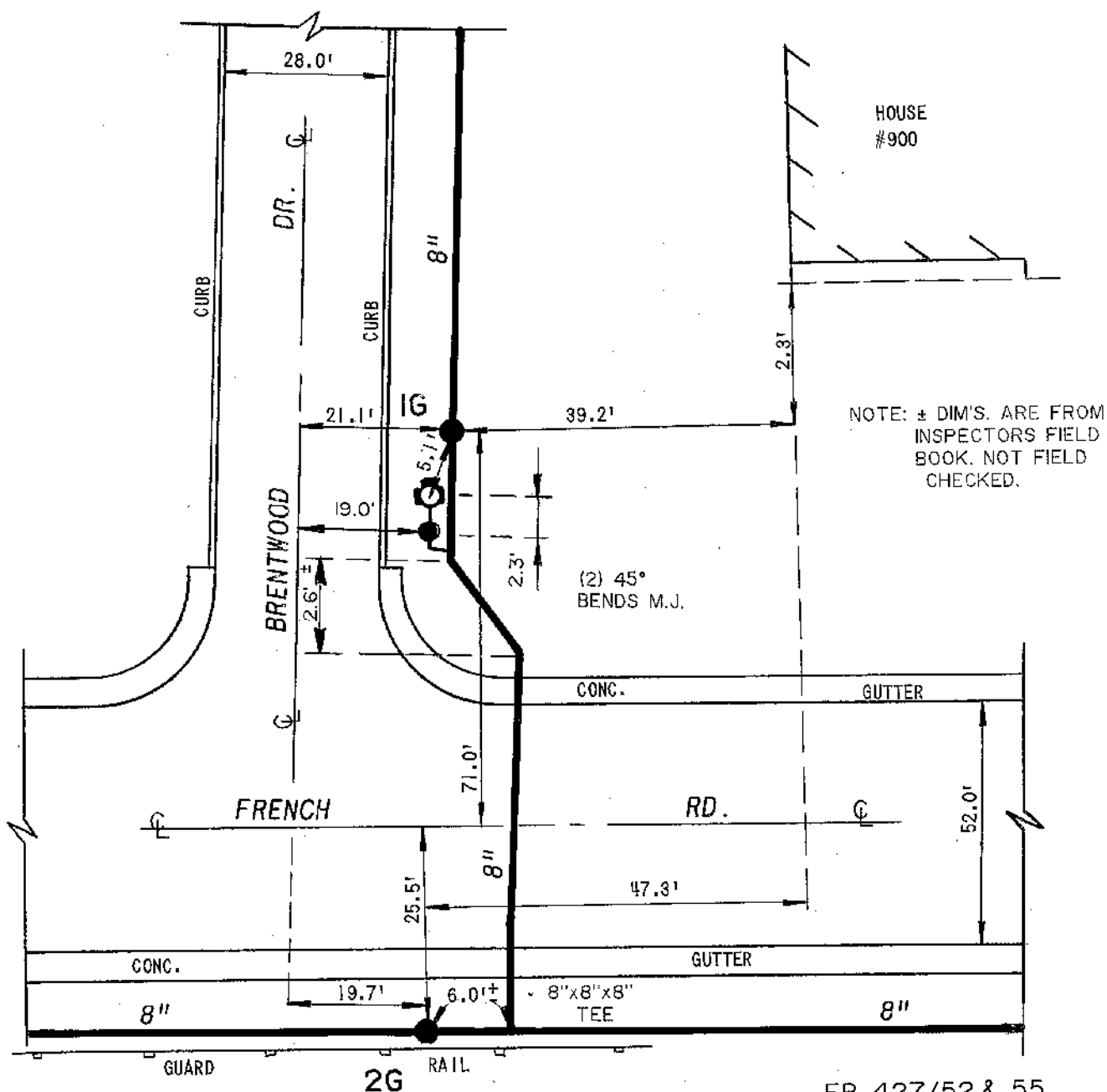
DETAIL SHEET NO.

EC **ERIE COUNTY**
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

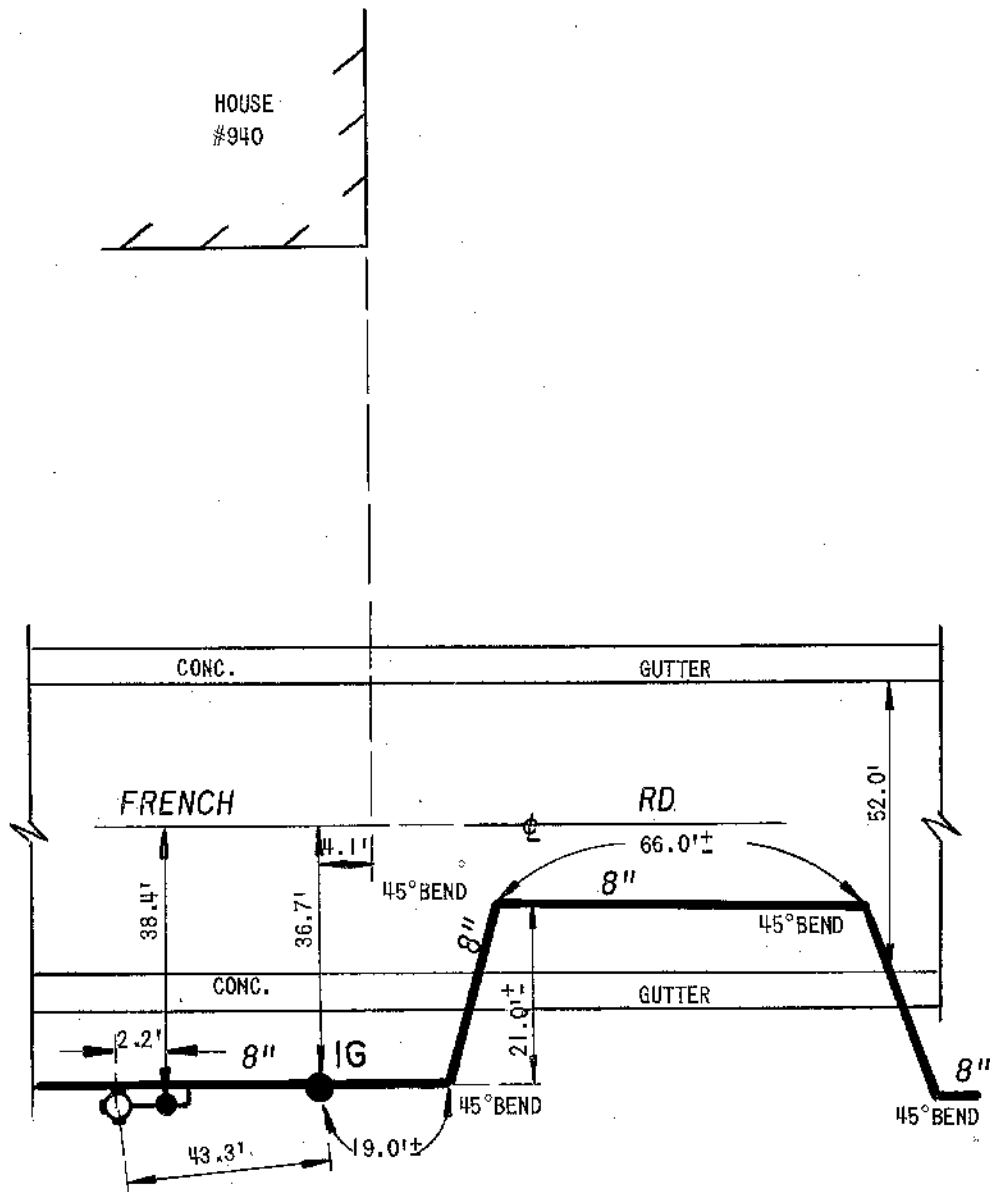
REVISED
DR. BY: JF
DATE: 8-21-89.
SCALE: NONE

TOWN OF CHEEKTOWAGA
E.C.W.A.

K12-C06A



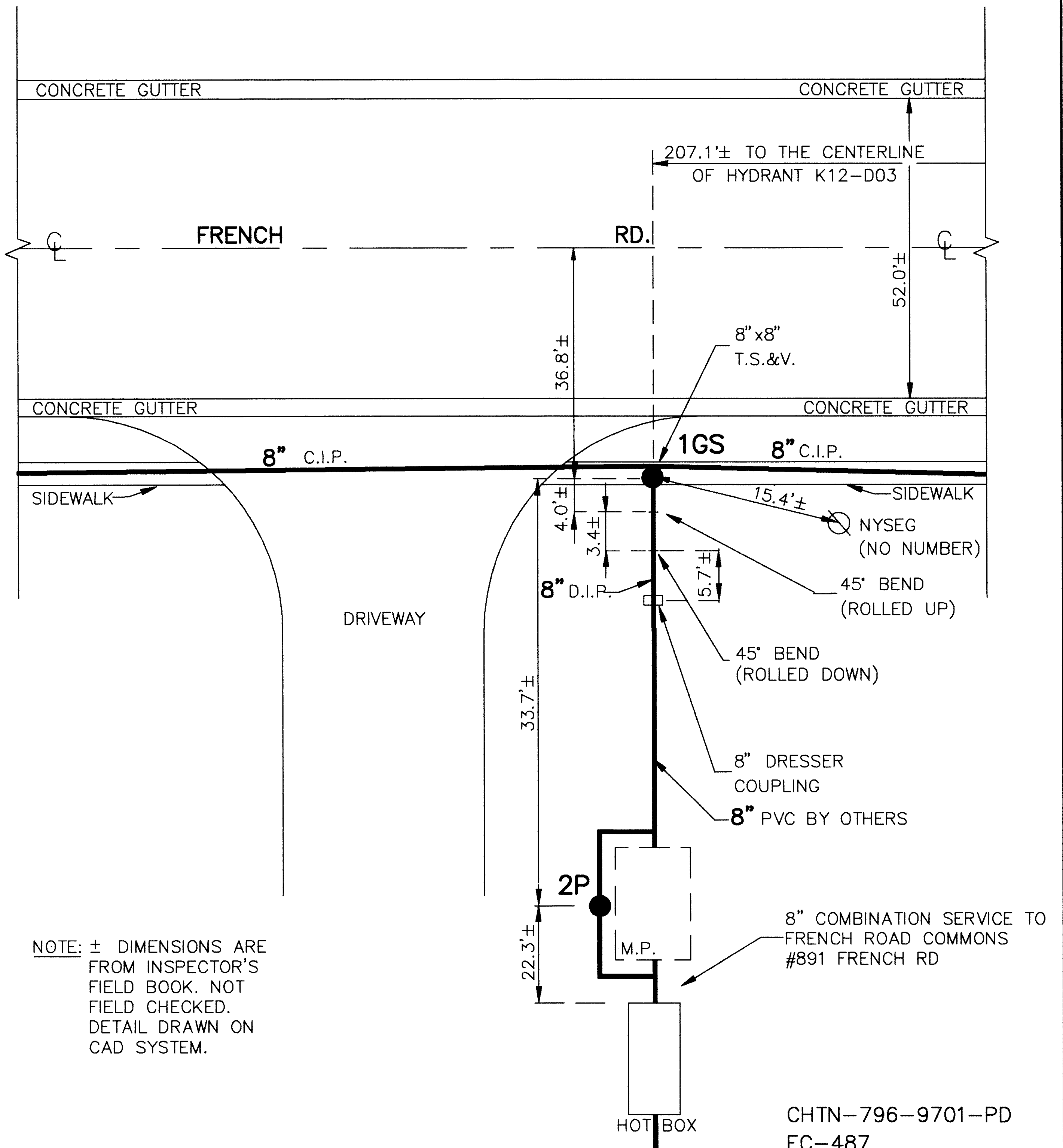
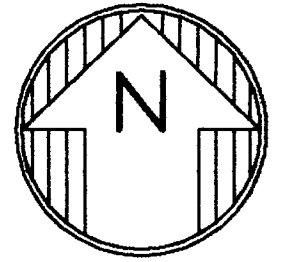
FB 427/52 & 55
CHTN-II9-900I-PA



FB. 427/53

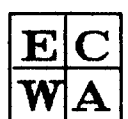
DETAIL SHEET NO.

K12-D02



NOTE: \pm DIMENSIONS ARE
FROM INSPECTOR'S
FIELD BOOK. NOT
FIELD CHECKED.
DETAIL DRAWN ON
CAD SYSTEM.

CHTN-796-9701-PD
EC-487
FB 460/27
F-2909



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR.

DATE:

FIELD

REVISED
DR. RLS

DATE: 09-28-98

OFFICE

TOWN OF CHEEKTOWAGA

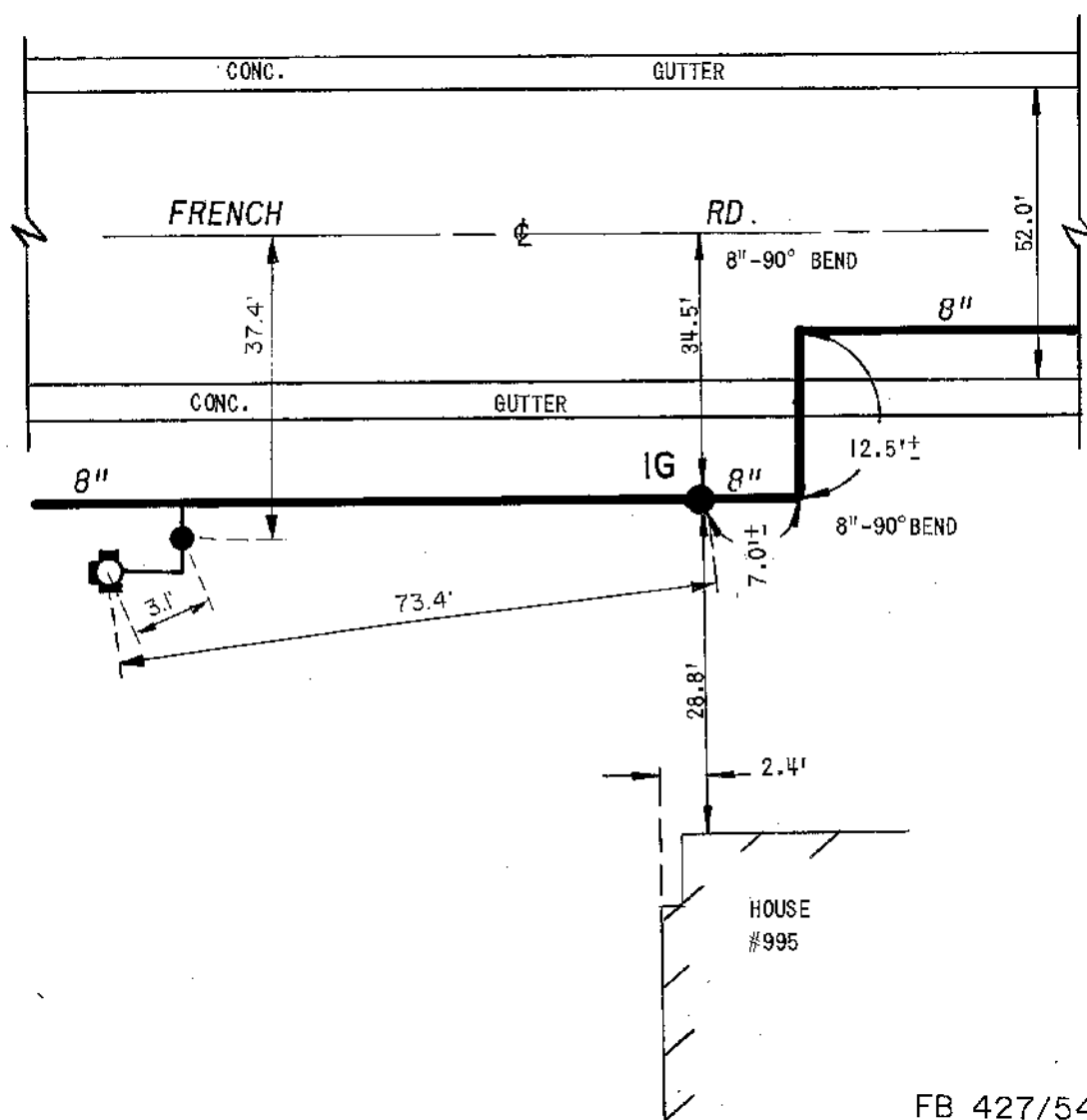
ECWA

K12-D03A

DETAIL SHT. NO.

N.T.S.

MASTER COPY.



FB 427/54
CHTN-309-8902-PA



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. D.C.C.

DATE: 03-05-04

FIELD

REVISED
DR.

DATE:

OFFICE

TOWN OF CHEEKTOWAGA

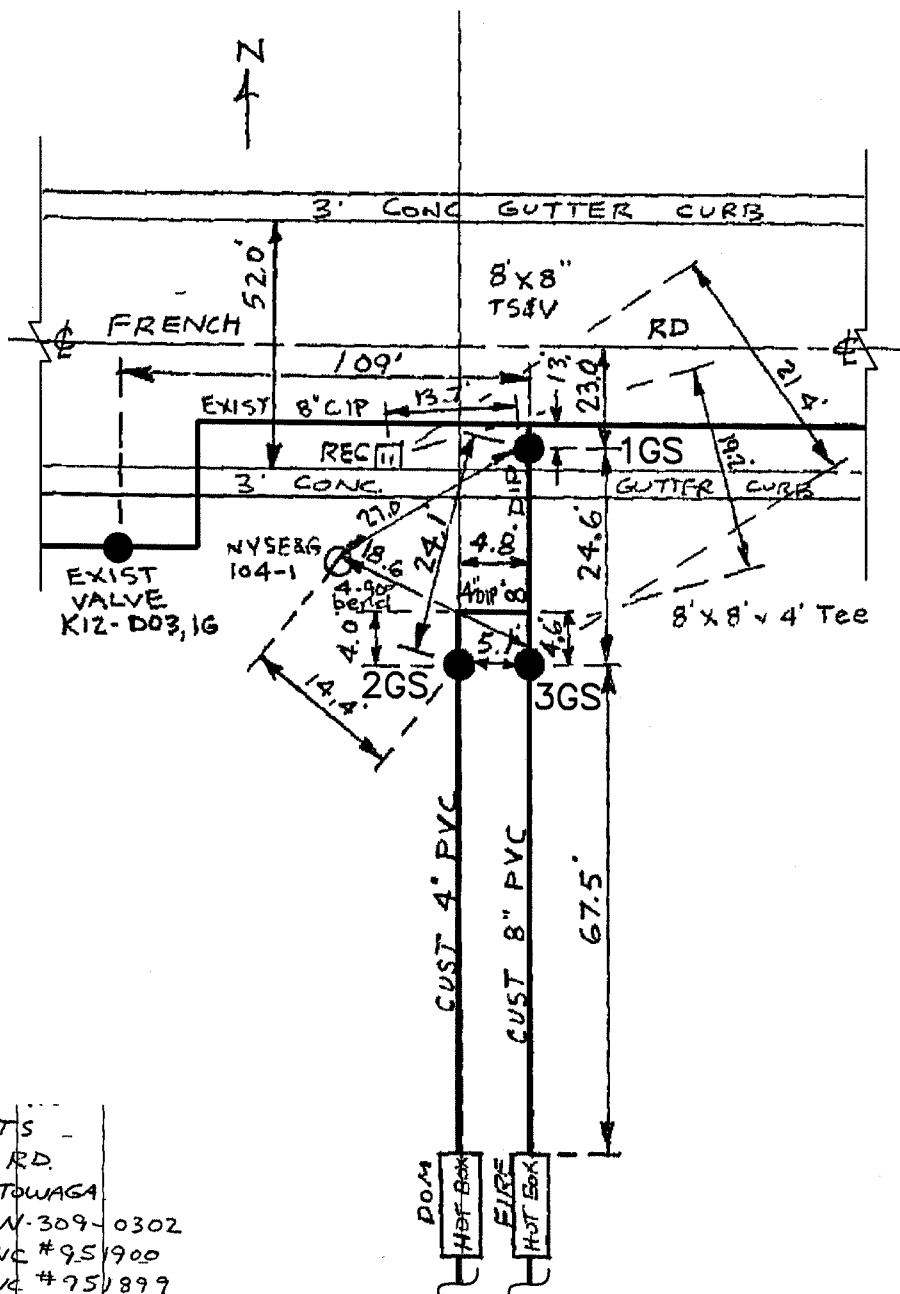
E.C.W.A.

K12-D04

DETAIL SHT. NO.

200300330

CURRENT PROJECT NO.



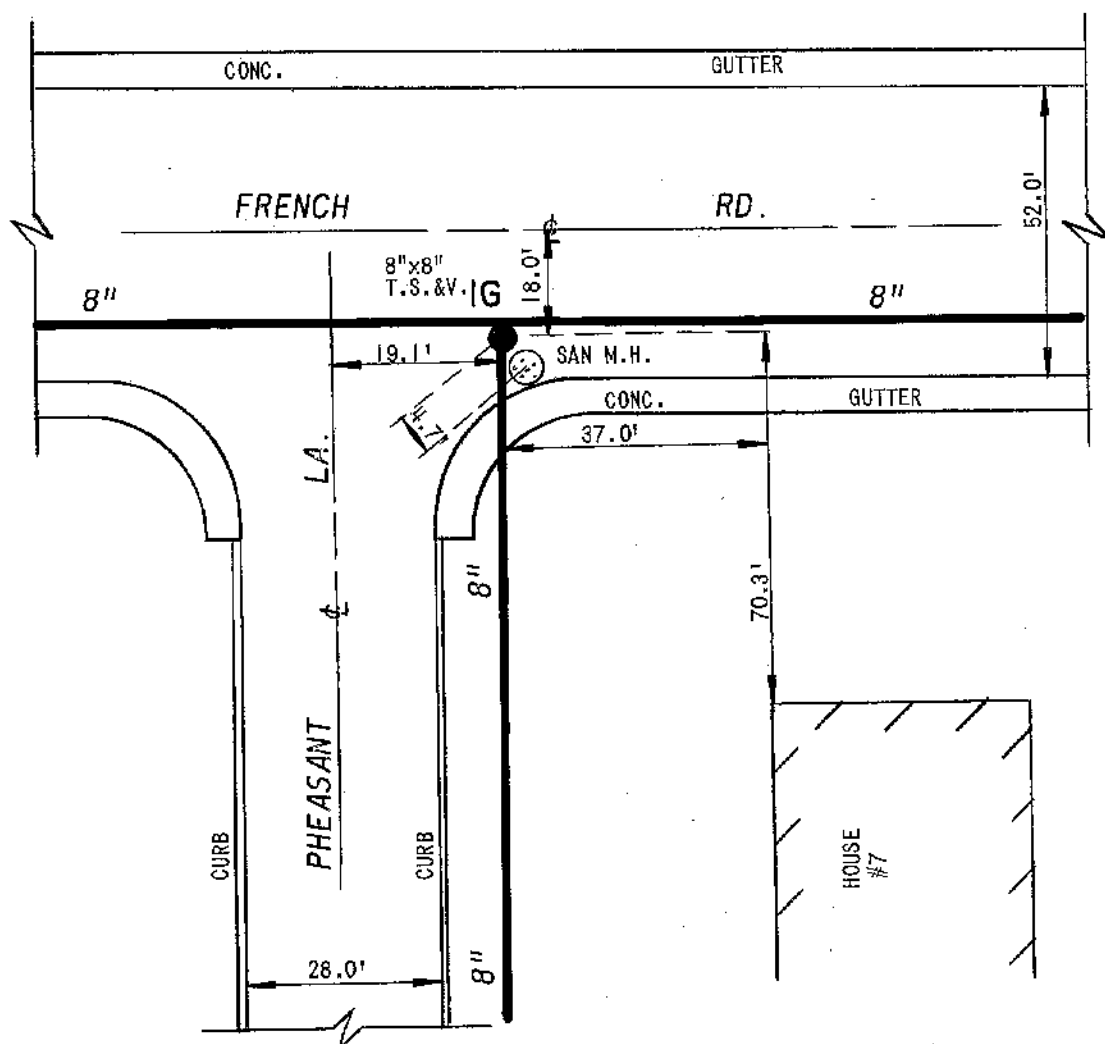
AHEPA APTS -
FRENCH RD.
TOWN OF CHEEKTOWAGA
DN 200300330 CHTN-309-0302
DWIP 59507 8" FIRE SVC #951900
DWIP 59506 4" DIM SVC #751899
KANDEY CO. INC
Staked Job 3-1-04
Started Job 3-5-04
Comp Job 3-5-04
MATERIAL USED.
Fire -
23LF OF 8" DIP W/WRAP 8LF - 4" DIP W/WRAP
1- 8'x8" TS&V 1- 4" Gate Valve
1- 8" Gate Valve 1- 4", 90° bend, MJ
5- 8" DIP Ret glands 1- 8'x8"x4" Tee, MJ
1- 8" PVC Ret. glands 4- 4" DIP Ret gland
1- 8" Solid Sleeve 1- 4" PVC Ret gland
2- Valve box 2- 8" DIP Ret -
1- Valve box

NOTE: DETAIL SCANNED FROM
FIELD BOOK AND PLOTTED
ON CAD SYSTEM.

F.B. 463/70
CHTN-309-0302

K12-D04
DETAIL SHT. NO.

MASTER COPY



FB.422/71

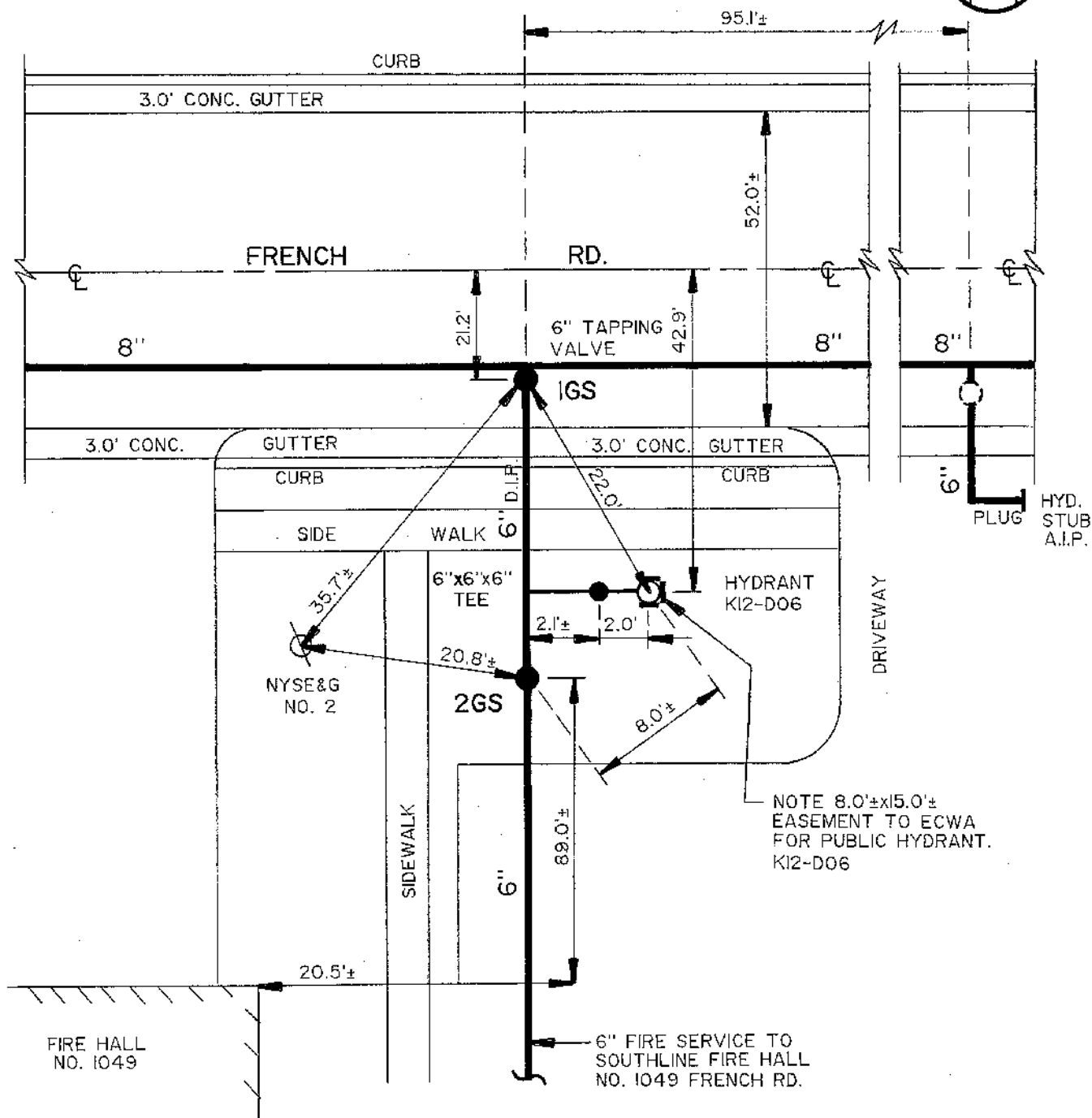
DETAIL SHEET NO

K12-D05

EC **ERIE COUNTY** 
WA **WATER AUTHORITY**
BUFFALO, NEW YORK

REVISED
DR. BY: JF
DATE: 8-21-89
SCALE: NONE

TOWN OF CHEEKTOWAGA
E.C.W.A.



NOTE:± DIMENSIONS ARE FROM INSPECTOR'S
FIELD BOOK. NOT FIELD CHECKED.

F.B.455/48
CHTN-309-890I-PA
CHTN-837-900I-P



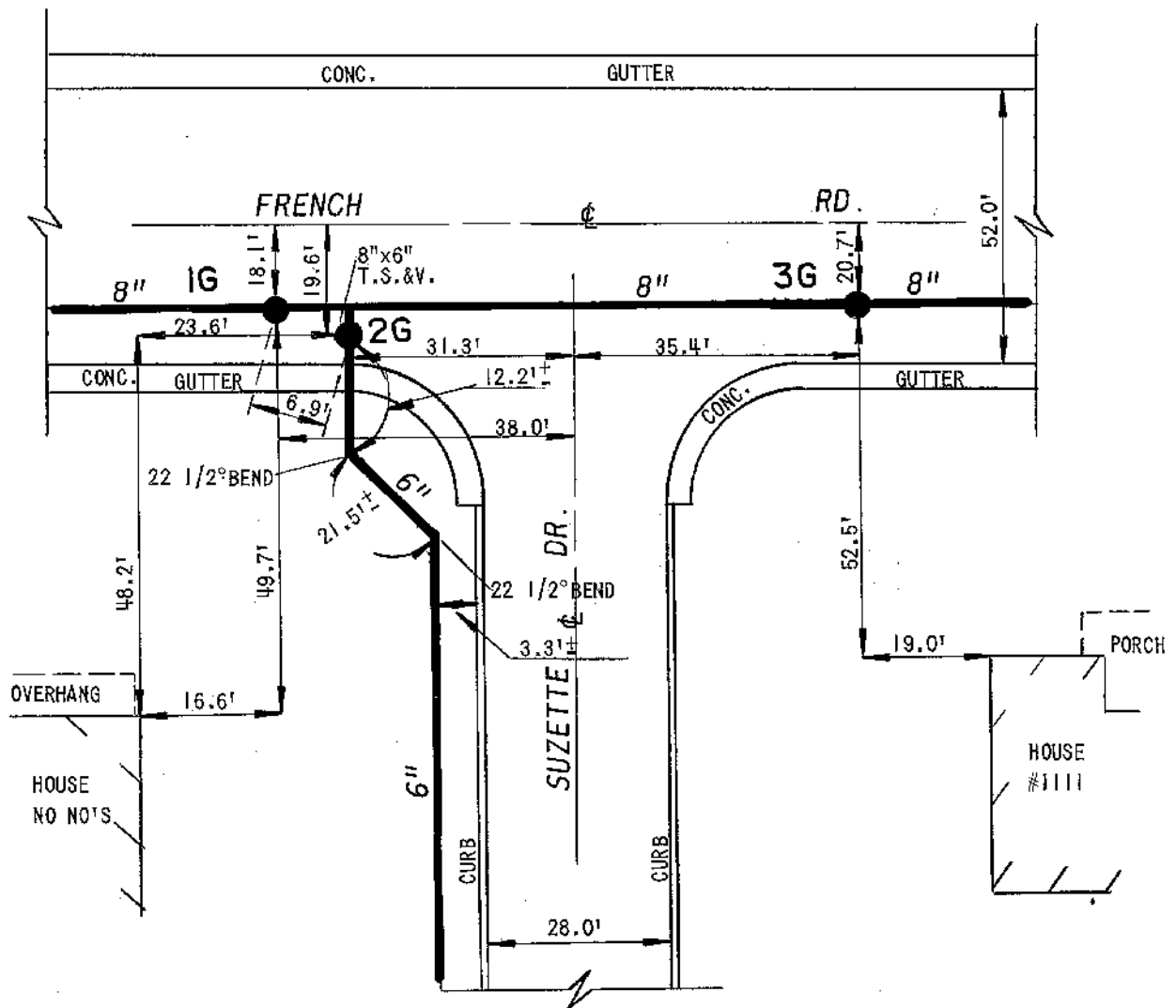
ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. DCC
DATE: 5/20/91
N.T.S.

TOWN OF CHEEKTOWAGA
E.C.W.A.

KI2-D06A

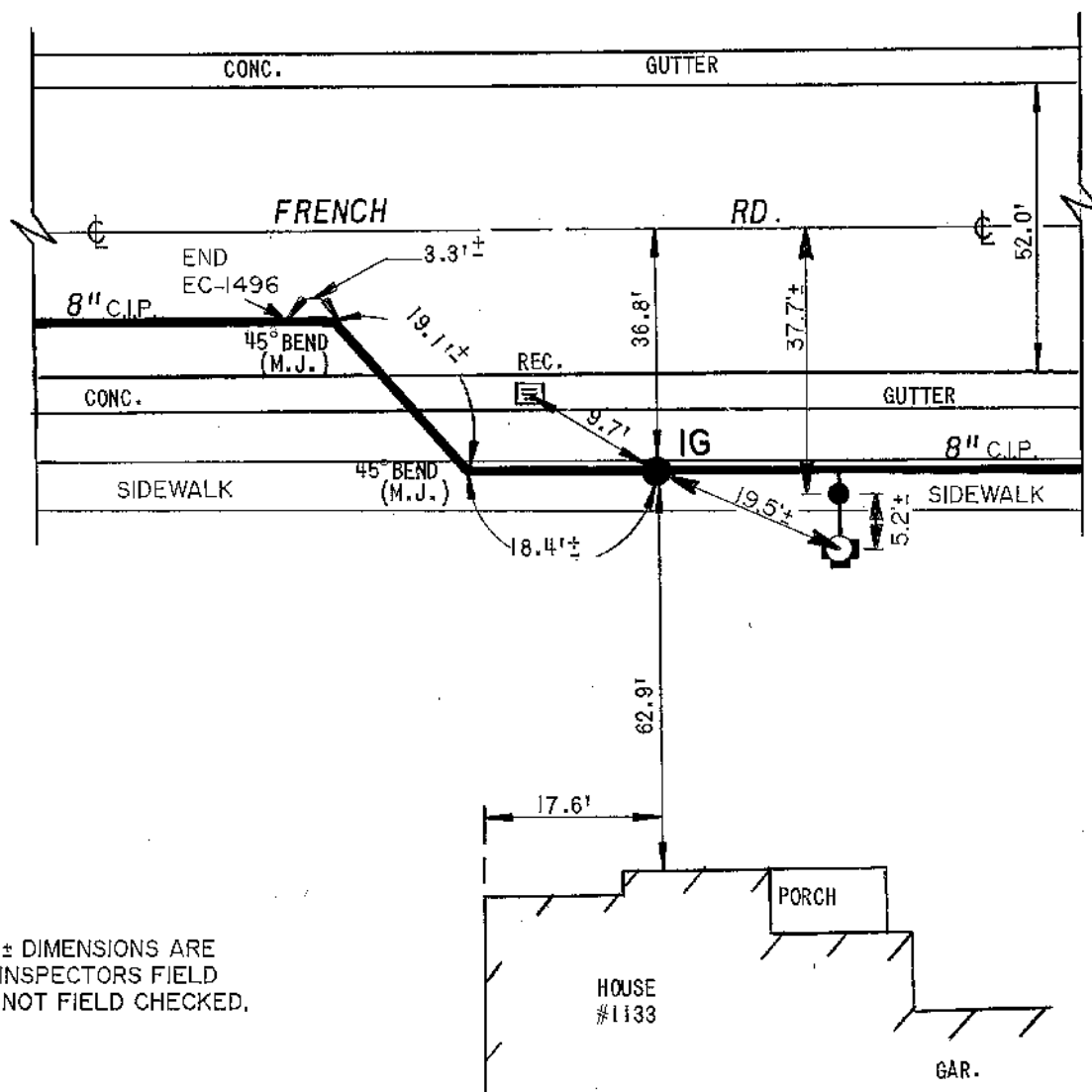
DETAIL SHEET NO.



FB. 398/54
FB. 400/23

DETAIL SHEET NO.

K12-D06



NOTE: ± DIMENSIONS ARE
FROM INSPECTOR'S FIELD
BOOK, NOT FIELD CHECKED.

CHTN-309-9101-P
FB. 457/16
FB. 418/45
FB. 398/55



ERIE COUNTY
WATER AUTHORITY
BUFFALO, NEW YORK

REVISED
DR. R.D.C.

DATE: 4/18/2018

REVISED
DR.

DATE:

FIELD

OFFICE

TOWN OF CHEEKTOWAGA

E.C.W.A.

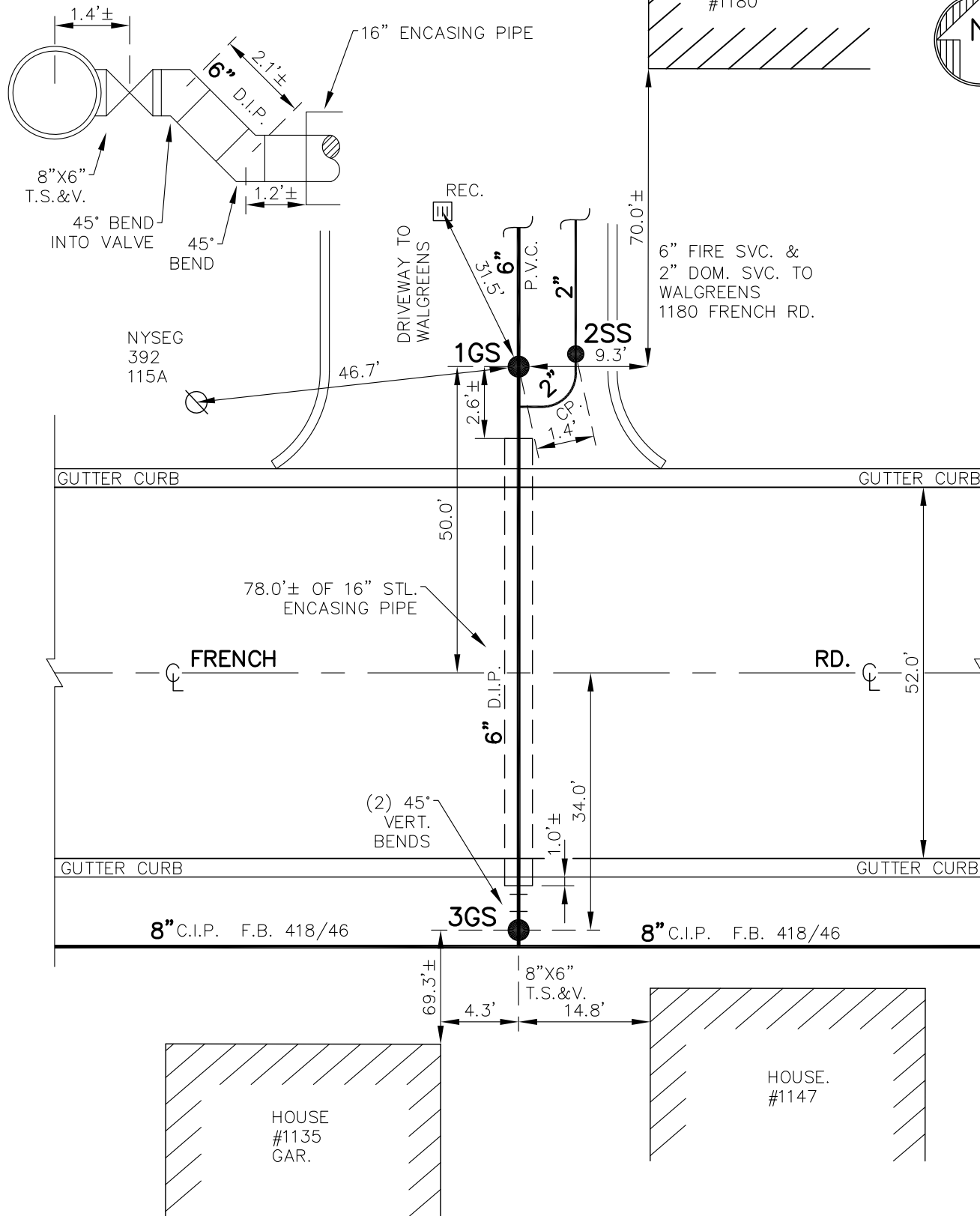
K12-D08

DETAIL SHT. NO.

201000074

CURRENT PROJECT NO.

INTERCONNECTION PROFILE



NOTE: DETAIL DRAWN ON CAD SYSTEM.
± DIMENSIONS FROM AS-BUILTS,
NOT FIELD CHECKED.

CHTN-309-1001

9-2-42

F.B. 418/46

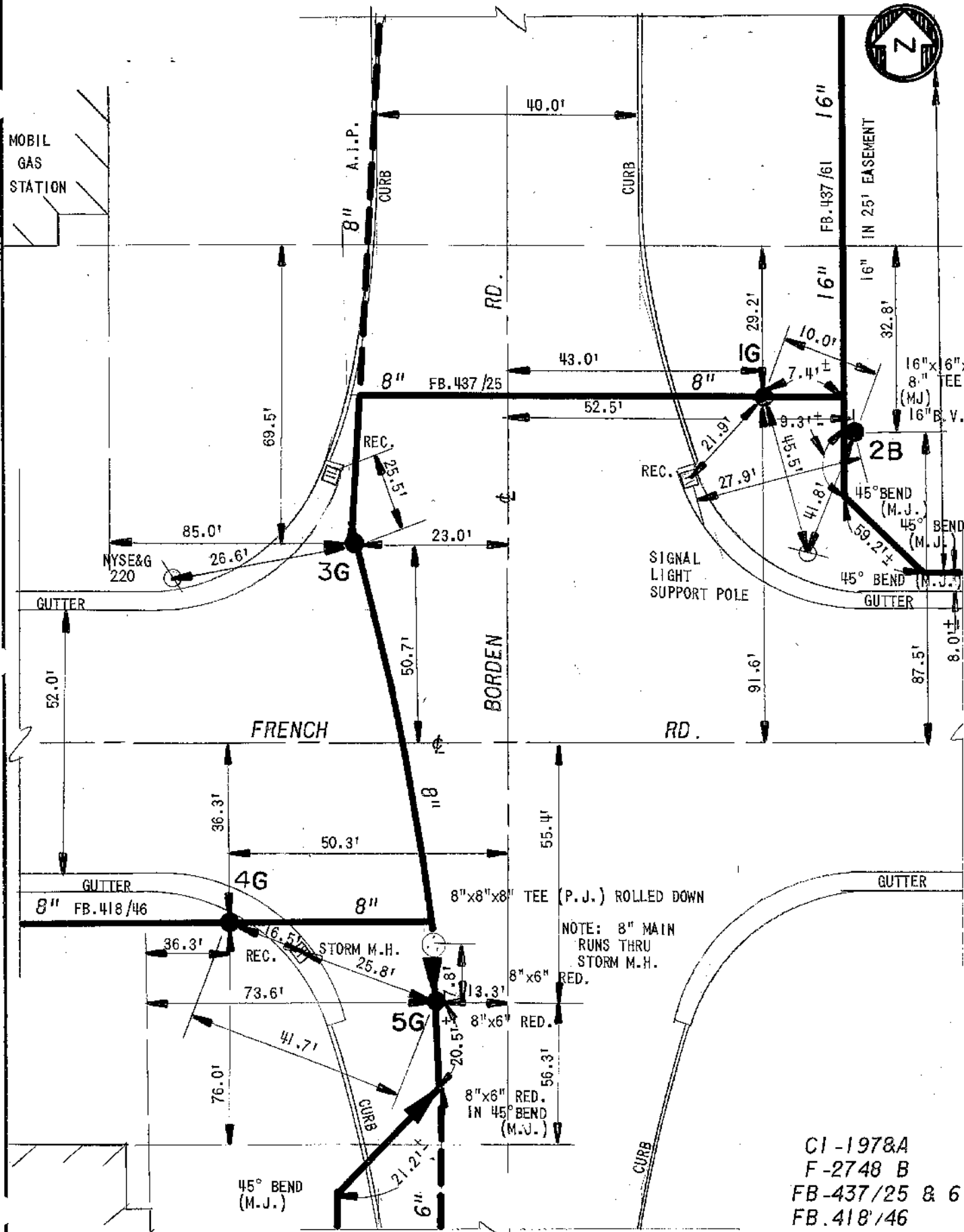
K12-D08

DETAIL SHT. NO.

MASTER COPY



MOBIL
GAS
STATION



NOTE: 8" MAIN
RUNS THRU
STORM M.H.

CI-197&A
F-2748 B
FB-437/25 & 6
FB-418/46