

**CITY OF FLINT**  
**DEPARTMENT OF PURCHASES AND SUPPLIES**

City Hall  
1101 S. Saginaw Street, Rm 203 – Flint, Michigan 48502  
(810) 766-7340 FAX (810) 766-7240 [www.cityofflint.com](http://www.cityofflint.com)



Sheldon A. Neeley

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**REQUEST FOR PROPOSAL**

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**OWNER/RETURN TO:**

THE CITY OF FLINT  
DEPARTMENT OF PURCHASES AND SUPPLIES  
1101 S. SAGINAW ST., ROOM 203, 2nd FLOOR  
FLINT, MI 48502

PROPOSAL NUMBER: **20000558**

**SCOPE OF WORK**

The City of Flint, Finance Department - Division of Purchases and Supplies, is soliciting sealed bids for providing:

**PRELIMINARY DESIGN SERVICES FOR MILLER ROAD FROM HAMMERBERG ROAD TO  
BALLENGER HIGHWAY PROJECT AND OPTIONAL WATER MAIN REPLACEMENT**

Per all additional requirements. and one (1) copy of your detailed bid, an unbound copy and a DIGITAL copy to the City of Flint, Finance Department - Division of Purchases.

If your firm is interested in providing the requested goods or services, please submit one (1) original and Supplies, 1101 S. Saginaw St, Room 203, Flint, MI, 48502, **Wednesday, February 26, 2020 @ 1:00 PM (EST)**. Please note: all detailed bids received **after 1:00 PM (EST)** will not be considered. Bids must be in a sealed envelope clearly identifying the bid and bid number. Faxed bids into the Finance Department - Division of Purchase and Supplies are not accepted.

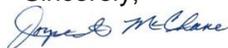
**All additional proposal documents, requirements, addendums, specifications, and plans/drawings (if utilized) are available on the Purchasing page of the City of Flint's web site at <https://www.cityofflint.com/finance/purchasing/bids-2/> under "open bids" and the specific bid or proposal number assigned to this notice.**

**If you are the low bidder and a new vendor, you will be required to submit an IRS W-9 Form and Vendor ACH Payment Authorization Form with the City of Flint.**

Bid results may be viewed next business day online EXCEPT when a bid is under review at <https://www.cityofflint.com/finance/purchasing/results/> under "view bid results".

Any questions regarding the proposal process may be directed to Joyce McClane, Purchasing Manager at [jmcclane@cityofflint.com](mailto:jmcclane@cityofflint.com) **no later than February 12, 2020, by 12:00 PM (EST)**

Sincerely,



**Joyce A. McClane, Purchasing Manager**

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## INSTRUCTIONS TO VENDORS

- 1) **PRE-BID INFORMATION AND QUESTIONS:** Each bid that is timely received will be evaluated on its merit and completeness of all requested information. In preparing bids, Bidders are advised to rely only upon the contents of this ITB and accompanying documents and any written clarifications or addenda issued by the City of Flint. If a Bidder finds a discrepancy, error or omission in the ITB package, or requires any written addendum thereto, the Bidder is requested to notify the Purchasing contact noted on the cover of this ITB, so that written clarification may be sent to all prospective Bidders. **THE CITY OF FLINT IS NOT RESPONSIBLE FOR ANY ORAL INSTRUCTIONS.**
- 2) **ITB MODIFICATIONS:** The City of Flint has the right to correct, modify or cancel the ITB, in whole or in part, or to reject any Bid, in whole or in part, within the discretion of the City of Flint, or their designee. If any such changes are made, all known recipients of the ITB will be sent a copy of such changes. If any changes are made to this ITB document by any party other than the City of Flint, the original document in the City of Flint's files takes precedence.
- 3) **BID SUBMISSION:**
  - a) The Bidder must include the following items, or the bid may be deemed non-responsive: i.e. All forms contained in this ITB, fully completed (including the notarized affidavit).
  - b) Bids must be submitted to the Finance Department - Purchasing and Supplies, City of Flint, 1101 S. Saginaw Street – Room 203, Flint, Michigan 48502 by the date and time indicated as the deadline. The Purchasing Department time stamp will determine the official receipt time. It is each Bidder's responsibility to insure that its bid is time stamped by the Purchasing Department by the deadline. This responsibility rests entirely with the Bidder, regardless of delays resulting from postal handling or for any other reasons. Bids will be accepted at any time during the normal course of business only, said hours being 8:00 a.m. to 5:00 p.m. Local Time, Monday through Friday, legal holidays as exception.
  - c) Bids must be enclosed in a sealed, non-transparent envelope, box or package, and clearly marked on the outside with the following: ITB Title, ITB Number, Deadline and Bidder's name.
  - d) Submission of a bid establishes a conclusive presumption that the Bidder is thoroughly familiar with the Invitation to Bid (ITB), and that the Bidder understands and agrees to abide by each and all of the stipulations and requirements contained therein.
  - e) All prices and notations must be typed or printed in ink. No erasures are permitted. Mistakes may be crossed out and corrections must be initialed in ink by the person(s) signing the bid.
  - f) Bids sent by email, facsimile or other electronic means will not be considered unless specifically authorized in this ITB.
  - g) All costs incurred in the preparation and presentation of the bid are the Bidder's sole responsibility; no pre-bid costs will be reimbursed to any Bidder. All documentation submitted with the bid will become the property of the City of Flint.
  - h) Bids must be held firm for a minimum of 120 days.

- i) Term - Contract and/or all other procurement documents shall be effective until completed to the satisfaction of the City of Flint. The City of Flint reserves the right to cancel or not renew all or any part of the procurement agreement/contract at any time.
- 4) **EXCEPTIONS:** Bidder shall clearly identify any proposed deviations from the Terms or Scope in the Invitation for Bid. Each exception must be clearly defined and referenced to the proper paragraph in this ITB. The exception shall include, at a minimum, the Bidder's proposed substitute language and opinion as to why the suggested substitution will provide equivalent or better service and performance. If no exceptions are noted in the Bidder's bid, the City of Flint will assume complete conformance with this specification and the successful Bidder will be required to perform accordingly. Bids not meeting all requirements may be rejected.
- 5) **DUPLICATE BIDS:** No more than one (1) bid from any Bidder, including its subsidiaries, affiliated companies and franchises will be considered by the City of Flint. In the event multiple bids are submitted in violation of this provision, the City will have the right to determine which bid will be considered, or at its sole option, reject all such multiple bids.
- 6) **WITHDRAWAL:** Bids may only be withdrawn by written notice prior to the date and time set for the opening of bids. No Bid may be withdrawn after the deadline for submission.
- 7) **REJECTION/GOOD STANDING:** The City of Flint reserves the right to reject any or all bids, or to accept or reject any bid in part, and to waive any minor informality or irregularity in bids received if it is determined by the City of Flint, or their designee, that the best interest of the City will be served by doing so. No Bid will be considered from any person, firm or corporation in arrears or in default to the City on any contract, debt, taxes or other obligation, or if the Bidder is debarred by the City of Flint from consideration for a contract award pursuant to Section 18-21.5 (d) of Article IV of the "Purchasing Ordinance of the City of Flint.
- 8) **PROCUREMENT POLICY:** Procurement for the City of Flint will be handled in a manner providing fair opportunity to all businesses. This will be accomplished without abrogation or sacrifice of quality and as determined to be in the best interest of the City. The City of Flint and their officials have the vested authority to execute a contract, subject to City Council and Mayoral approval where required.
- 9) **BID SIGNATURES:** Bids must be signed by an authorized official of the Bidder. Each signature represents binding commitment upon the Bidder to provide the goods and/or services offered to the City of Flint if the Bidder is determined to be the lowest Responsive and Responsible Bidder.
- 10) **CONTRACT AWARD/SPLIT AWARDS:** The City of Flint reserves the right to award by item, group of items, or total. The Bidder to whom the award is made will be notified at the earliest possible date. Tentative acceptance of the bid, intent to recommend award of a contract, and actual award of the contract will be provided by written notice sent to the Bidder at the address designated in the bid if a separate Agreement is required to be executed. After a final award of the Agreement by the City of Flint, the Contractor/Vendor must execute and perform said Agreement. All bids must be firm for at least 120 days from the due date of the bid. If, for any reason, a contract is not executed with the selected Bidder within 14 days after notice of recommendation for award, then the City may recommend the next lowest responsive and responsible Bidder.

- 11) **NO ITB RESPONSE:** Bidders who receive this ITB but who do not submit a bid should return this ITB package stating "No Bid" and are encouraged to list the reason(s) for not responding. Failure to return this form may result in removal of the Bidder's name from all bidder lists.
- 12) **FREEDOM OF INFORMATION ACT REQUIREMENTS:** Bids are subject to public disclosure after the deadline for submission in accordance with state law.
- 13) **ARBITRATION:** Contractor/Vendor agrees to submit to arbitration all claims, counterclaims, disputes and other matters in question arising out of or relating to this agreement or the breach thereof. The Contractor's agreement to arbitrate shall be specifically enforceable under the prevailing law of any court having jurisdiction to hear such matters. Contractor's obligation to submit to arbitration shall be subject to the following provisions:
  - (a) Notice of demand for arbitration must be submitted to the City in writing within a reasonable time after the claim; dispute or other matter in question has arisen. A reasonable time is hereby determined to be fourteen (14) days from the date the party demanding the arbitration knows or should have known the facts giving rise to his claim, dispute or question. In no event may the demand for arbitration be made after the time when institution of legal or equitable proceedings based on such claim dispute or other matters in question would be barred by the applicable statute of limitation.
  - (b) Within fourteen (14) days from the date demand for arbitration is received by the City, each party shall submit to the other the name of one person to serve as an arbitrator. The two arbitrators together shall then select a third person; the three together shall then serve as a panel in all proceedings. Any decision concurred in by a majority of the three shall be a final binding decision.
  - (c) The final decision rendered by said arbitrators shall be binding and conclusive and shall be subject to specific enforcement by a court of competent jurisdiction.
  - (d) The costs of the arbitration shall be split and borne equally between the parties and such costs are not subject to shifting by the arbitrator.
  - (e) These provisions shall survive the termination or expiration of any agreement entered into as a result of this request.
- 14) **BID HOLD:** The City of Flint may hold bids for a period of one hundred twenty - (120) days from opening, for the purpose of reviewing the results and investigating the qualifications of bidders prior to making an award.
- 15) **NONCOMPLIANCE:** Failure to deliver in accordance with specifications will be cause for the City of Flint and they may cancel the contract or any part thereof and purchase on the open market, charging any additional cost to the Contractor/Vendor.
- 16) **DISCLAIMER OF CONTRACTUAL RELATIONSHIP:** Nothing contained in these documents shall create any contractual relationship between the City and any Subcontractor or Sub-subcontractor.
- 17) **ERRORS AND OMISSIONS:** Bidder is not permitted to take advantage of any obvious errors or omissions in specifications.

- 18) **INTERPRETATION:** In the event that any provision contained herein shall be determined by a court of competent jurisdiction or an appropriate administrative tribunal to be contrary to the provision of law or to be unenforceable for any reason, then, to the extent necessary and possible to render the remainder of this Agreement enforceable, such provision may be modified or severed by such court or administrative tribunal having jurisdiction over this Agreement and the interpretation thereof, or the parties hereto, so as to, as nearly as possible, carry out the intention of the parties hereto, considering the purpose of the entire Agreement in relation to such provision.
- 19) **LAWS AND ORDINANCES:** The bidder shall obey and abide by all of the laws, rules and regulations of the Federal Government, State of Michigan, Genesee County and the City of Flint, applicable to the performance of this agreement, including, but not limited to, labor laws, and laws regulating or applying to public improvement, local government, and its operational requirements.
- 20) **LOCAL PREFERENCE:** Proposers/bidders located within the corporate city limits of Flint, Michigan may be given a seven percent (7%) competitive price advantage. Additionally, if the lowest responsible bidder is not located within the limits of the City of Flint, but is located within the County of Genesee, and said bidder does not exceed the bid of the lowest non-local bidder by more than three and one-half percent (3-1/2%), then said lowest Genesee County bidder may be determined to be the lowest responsible bidder, and make the award to such Genesee County bidder accordingly, subject to the approval of the city council. If the lowest non-local bidder does not exceed that of any proposers/bidders by (7%) inside the City of Flint or (3-1/2%) inside the County of Genesee, then the Purchasing Director shall be allowed to request that the lowest local vendor match the price offered by the lowest non-local vendor.
- 21) **MATERIAL WORKMANSHIP AND STANDARDS OF PERFORMANCE:** The bidder agrees to exercise independent judgment and to complete performance under this Agreement in accordance with sound professional practices. In entering into this Agreement, the City is relying upon the professional reputation, experience, certification and ability of the bidder. The bidder agrees that all of the obligations required by him/her pursuant to this Agreement shall be performed by him/her or by other employed by him/her and working under his/her direction and control. The continued effectiveness of this Agreement during its term or any renewal term shall be contingent, in part, upon the bidder maintaining his operating qualifications in accordance with the requirements of federal, state and local laws. All materials furnished must be new, of latest model and standard first grade quality, or best workmanship and design, unless otherwise expressly specified. Bidder, if required, must furnish satisfactory evidence of quality materials; offers of experimental or unproven equipment may be disregarded.
- 22) **MODIFICATIONS/CHANGES/PRICE VARIATIONS:** Any modification to this agreement must be in writing and signed by the authorized employee, officer, board or council representative authorized to make such modifications pursuant to the State law and local ordinances. Commodities subject to market price variation shall be considered on all term agreements subject to a 30-day advance written notification from the vendor. Such notice must be substantiated by a written price change from the manufacturer and shall be required for both price increases and decreases.

- 23) **NON-COLLUSION:** The bidder acknowledges that by signing this document that he/she is duly authorized to make said offer on behalf of the company he/she represents and that said bid is genuine and not sham or collusive and not made in the interests or on behalf of any person not therein named, and that he/she and said bidder have not directly induced or solicited any other person(s) or corporation to refrain from responding to this solicitation and that he/she and said bidder have not in any manner sought by collusion to secure to himself/herself and said bidder any advantage over any other bidder.
- 24) **NON-DISCRIMINATION:** Pursuant to the requirements of 1976 P.A. 453 (Michigan Civil Rights Act) and 1976 P.A. 220 (Michigan Handicapped Rights Act), the local unit and its agent agree not to discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, marital status or because of a handicap that is unrelated to the person's ability to perform the duties of nondiscrimination provision identical to this provision and binding upon any and all contractors and subcontractors. A breach of this covenant shall be regarded as a material breach of this contract.
- 25) **SUBCONTRACTING:** No subcontract work shall be started prior to the written approval of the subcontractor by the City. The City reserves the right to accept or reject any subcontractor.
- 26) **UNION COMPLIANCE:** Contractor agrees to comply with all regulations and requirements of any national or local union(s) that may have jurisdiction over any of the materials, facilities, services or personnel to be furnished by the City.
- 27) **WAIVER:** Failure of the City to insist upon strict compliance with any of the terms, covenants or conditions of this Agreement shall not be deemed a waiver of that term, covenant or condition or of any other term, covenant or condition. Any waiver or relinquishment of any right or power hereunder at any one or more times shall not be deemed a waiver or relinquishment of that right or power at any other time.
- 28) **CITY INCOME TAX WITHHOLDING:** Contractor and any subcontractor engaged in this contract shall withhold from each payment to his employees the City income tax on all of their compensation subject to tax, after giving effect to exemptions, as follows:
- (a) Residents of the City:  
At a rate equal to 1% of all compensation paid to the employee who is a resident of the City of Flint.
  - (b) Non-residents:  
At a rate equal to 1/2% of the compensation paid to the employee for work done or services performed in the City of Flint.

These taxes shall be held in trust and paid over to the City of Flint in accordance with City ordinances and State law. Any failure to do so shall constitute a substantial and material breach of this contract.

- 29) **CONTRACT/PROCUREMENT DOCUMENTS:** The invitation for bids, instructions to bidders, proposal, affidavit, addenda (if any), statement of bidder's qualifications (when required), general conditions, special conditions, performance bond, labor and material payment bond, insurance certificates, (if required), technical specifications, and drawings, together with this agreement, form the contract, and they are as fully a part of the contract as if attached hereto or repeated herein.

- 30) **DISCLAIMER OF CONTRACTUAL RELATIONSHIP WITH SUBCONTRACTORS:** Nothing contained in the Contract Documents shall create any contractual relationship between the City and any Subcontractor or Sub-subcontractor.
- 31) **EFFECTIVE DATE:** Any agreement between the City and the contractor shall be effective upon the date that it is executed by all parties hereto.
- 32) **FORCE MAJEURE:** Neither party shall be responsible for damages or delays caused by Force Majeure nor other events beyond the control of the other party and which could not reasonably have anticipated the control of the other party and which could not reasonably have been anticipated or prevented. For purposes of this Agreement, Force Majeure includes, but is not limited to, adverse weather conditions, floods, epidemics, war, riot, strikes, lockouts, and other industrial disturbances; unknown site conditions, accidents, sabotage, fire, and acts of God. Should Force Majeure occur, the parties shall mutually agree on the terms and conditions upon which the services may continue.
- 33) **INDEMNIFICATION:** To the fullest extent permitted by law, Contractor agrees to defend, pay on behalf of, indemnify, and hold harmless the City of Flint, its elected and appointed officials, employees and volunteers and others working on behalf of the City of Flint, including the Project Manager, against any and all claims, demands, suits, or losses, including all costs connected therewith, and for any damages which may be asserted, claimed, or recovered against or from the City of Flint, its elected and appointed officials, employees, volunteers or others working on behalf of the City of Flint, by reason of personal injury, including bodily injury or death and/or property damage, including loss of use thereof, which may arise as a result of Contractor's acts, omissions, faults, and negligence or that of any of his employees, agents, and representatives in connection with the performance of this contract. Should the Contractor fail to indemnify the City in the above-mentioned circumstances, the City may exercise its option to deduct the cost that it incurs from the contract price forthwith.
- 34) **INDEPENDENT CONTRACTOR:** No provision of this contract shall be construed as creating an employer-employee relationship. It is hereby expressly understood and agreed that Contractor is an "independent contractor" as that phrase has been defined and interpreted by the courts of the State of Michigan and, as such, Contractor is not entitled to any benefits not otherwise specified herein.
- 35) **NO THIRD-PARTY BENEFICIARY:** No contractor, subcontractor, mechanic, material man, laborer, vendor, or other person dealing with the principal Contractor shall be, nor shall any of them be deemed to be, third-party beneficiaries of this contract, but each such person shall be deemed to have agreed (a) that they shall look to the principal Contractor as their sole source of recovery if not paid, and (b) except as otherwise agreed to by the principal Contractor and any such person in writing, they may not enter any claim or bring any such action against the City under any circumstances. Except as provided by law, or as otherwise agreed to in writing between the City and such person, each such person shall be deemed to have waived in writing all rights to seek redress from the City under any circumstances whatsoever.
- 36) **NON-ASSIGNABILITY:** Contractor shall not assign or transfer any interest in this contract without the prior written consent of the City provided, however, that claims for money due or to become due to Contractor from the City under this contract may be assigned to a bank, trust company, or other financial institution without such approval. Notice of any such assignment or transfer shall be furnished promptly to the City.

- 37) **NON-DISCLOSURE/CONFIDENTIALITY:** Contractor agrees that the documents identified herein as the contract documents are confidential information intended for the sole use of the City and that Contractor will not disclose any such information, or in any other way make such documents public, without the express written approval of the City or the order of the court of appropriate jurisdiction or as required by the laws of the State of Michigan.
- 38) **RECORDS PROPERTY OF CITY:** All documents, information, reports and the like prepared or generated by Contractor as a result of this contract shall become the sole property of the City of Flint.
- 39) **SEVERABILITY:** In the event that any provision contained herein shall be determined by a court or administrative tribunal to be contrary to a provision of state or federal law or to be unenforceable for any reason, then, to the extent necessary and possible to render the remainder of this Agreement enforceable, such provision may be modified or severed by such court or administrative tribunal so as to, as nearly as possible, carry out the intention of the parties hereto, considering the purpose of the entire Agreement in relation to such provision. The invalidation of one or more terms of this contract shall not affect the validity of the remaining terms.
- 40) **TERMINATION:** This contract may be terminated by either party hereto by submitting a notice of termination to the other party. Such notice shall be in writing and shall be effective 30 days from the date it is submitted unless otherwise agreed to by the parties hereto. Contractor, upon receiving such notice and prorated payment upon termination of this contract shall give to the City all pertinent records, data, and information created up to the date of termination to which the City, under the terms of this contract, is entitled.
- 41) **TIME PERFORMANCE:** Contractor's services shall commence immediately upon receipt of the notice to proceed and shall be carried out forthwith and without reasonable delay.
- 42) **EVALUATION OF BIDS/PROPOSALS:** In the City's evaluation of bids/proposals, at minimum; cost, serviceability, financial stability, and all requirements set forth in this document shall be considered as selection and award criteria unless otherwise as specified.



**CITY OF FLINT  
DEPT. OF PURCHASES & SUPPLIES**

**PRELIMINARY DESIGN SERVICES FOR MILLER ROAD FROM HAMMERBERG ROAD TO  
BALLENGER HIGHWAY PROJECT AND OPTIONAL WATER MAIN REPLACEMENT (WIIN)**

**PROJECT LOCATION:**

1. Miller Road 1.4 mile resurfacing preservation from Hammerberg Road on the east side to Ballenger Highway on the west. **(Map Attachment 1)**
2. Utility as-builts for Miller Road **(As-Builts Attachment 2)**
3. MDOT Project Proposal **(Proposal Attachment 3)**
4. **(Scoring Sheet Attachment 4)**

**VERY IMPORTANT: PLEASE PLACE PRICE IN A SEPARATE ENVELOPE WHEN SUBMITTING YOUR PROPOSAL.**

**SCOPE OF WORK:**

Proposed work includes:

- This project must be able to go to MDOT bid by February 2021.
- Determine and complete all permits and approvals needed by MDOT for Bids including completing the Program Application, any required traffic studies and crash analysis with a recommendation and Section 106 environmental review, all environmental, right of way, and safety analysis.
- The Engineering Firm will complete all permits, reports, and forms required for this project including the NEPA, SHPO, historical and environmental permits for Miller Road Projects within 30 days from the signed contract.
- Complete any drainage study needed to complete the project to MDOT standards.
- Total topographic survey of the project limits, at a minimum, to include ROW within project limits and 100' beyond the POB and POE and side streets. A minimal additional 10' beyond ROW at driveways and a minimal additional 25' beyond ROW at all cross streets.
- Surveys should be referenced to GPS coordinates.
- Geotechnical subgrade investigation as needed, sampling shall meet the MDOT sampling frequencies for core/borings to a depth of 5'.
- Coordinate with any and all utilities that may be affected by this project.
- All underground utilities locations and sizes will be noted on plans.
- Complete all AutoCAD drawing and design work including locations of concrete patches, joint and crack filling in the concrete sub-layer.
- Design all locations of the repairs, milling and resurfacing preservation of Miller Road.
- Design and determine limits for curb and gutter replacement. (MDOT Proposal was for 7000 feet of curb/gutter replacement).
- Design all driveway approaches that are required.
- Design and determine limits of partial sidewalk replacement.

- Design and determine locations for any new sidewalks if needed.
- Design sidewalk ADA ramps with detectable warning plates where they are needed.
- The Engineering Firm will manage and help acquire any construction easements, grading easements or permanent easements to complete this project. (The City does not have any knowledge of any location that will require easement)
- Complete all MDOT requirements, reports, justifications, help get approvals by City Council and conduct public hearings for the Road Diet on Miller Road.
- Design the road diet (4 lanes to 3 lanes) w/bike lanes or wide shoulders.
- The location of any manholes in the traffic path should be evaluated.
- Drainage design will utilize existing structures with minor grading correction where possible.
- Evaluate and correct any drainage issues and design construction of drainage structures only where necessary.
- The design will incorporate existing sanitary sewer and adjusted existing manholes as needed.
- Replace manhole covers where needed.
- All-round manhole covers will have a circular concrete collar to finished grade.
- The engineer will develop and supply specifications and quantities to meet MDOT and the City of Flint requirements.
- Design MDOT and City approved new pavement markings.
- Determine and design road signage per MDOT standards.
- Develop Construction Traffic Control Plan.
- Design project restoration plan and specifications.
- Engineering Firm will create a Cost Estimate for the road project
- Develop an estimated scheduling plan.
- The construction schedule should be developed so that it does not affect the CRIM Race in August.
- The engineer will create work phases to minimize the impact on the businesses, residents and the community. That will include working with MTA, Fire Department, and Waste Haulers to develop the best phasing for the project.
- The engineering firm will be required to have a minimum Bi-weekly progress update meeting or email on the design and the budget with the City Engineer and/or the Transportation Director throughout this PE-Design Project.
- Provide all drawings, calculations, documentation, permits and all electronic AutoCadd files, shapefiles and survey files, needed for the completion and success of the Construction of the Miller Road Project.
- Preliminary Engineering firm will answer any questions about design if requested during the Construction phase at no additional cost.

Optional water main replacement if funding is available.

- The engineering firm will determine the best options on water main pipe types, sizing, methods and specifications. Options to be approved by the City of Flint.
- Geotechnical subgrade investigation as needed, sampling shall meet the EGLE and MDOT sampling frequencies for core/borings to a proper depth where the water main will be located
- All additional surveying needed for water main will be provided by Engineering Firm.
- The engineer will supply water main replacement design to meet the City of Flint requirements.
- The engineer will supply specifications to meet the City of Flint requirements.
- The engineer will design water main so that water services are not effected over six hours.
- New residential service lines to curb boxes. Active accounts only.
- Commercial service lines check with DPW Director for the ending point.
- The engineer will supply all EGLE and County permits for water main.
- The engineer will supply a water main abandonment/removal plans.

- All underground utility depths should be noted on profile plans.
- The engineering firm will update the project schedule for the water main.
- The Engineering Firm will be required to have a minimum Bi-weekly progress update meeting or email on the design and the budget with the City Engineer and/or the DPW Director throughout this PE- Water Main Design Project.
- Engineering Firm will provide all drawings, calculations, documentation, permits, and all electronic AutoCadd files, shapefiles and survey files, needed for the completion and success of the Construction of the Miller Road Water Main Project.
- The Preliminary Engineering firm will answer any questions about design if requested during the Construction phase at no additional cost.
- If funded, Engineering Firm will create a Cost Estimate for the water main project

**ANTICIPATED SERVICE START DATE:**

March 2020

**ANTICIPATED MDOT BID DATE:**

February 2021

**PRIMARY PREQUALIFICATION CLASSIFICATION(S):**

- MDOT prequalified
  - Design – Roadway, Intermediate
  - Design – Geotechnical
  - Design – Hydraulics 1
  - Traffic – Signal
  - Utilities – Municipal
- P.E. licensed in the state of Michigan

**PROJECT COORDINATION:**

The Consultant shall be responsible for project coordination with MDOT, EGLE, Flint Schools, Private Schools, Consumers Energy, Comcast, AT&T, MTA, CRIM, Bishop Airport, and any other applicable utilities/businesses.

**CITY OF FLINT – CITY ENGINEER/PROJECT MANAGER:**

Mark Adas, P.E.  
 City of Flint – DPW  
 1101 S. Saginaw St. (North Bldg)  
 Flint, MI 48501  
 (810) 766-7165, ext 2603  
 (810) 766-7249  
 madas@cityofflint.com

## **REQUIRED MDOT GUIDELINES AND STANDARDS:**

Work shall conform to current MDOT, FHWA, and AASHTO practices, guidelines, policies, and standards (i.e., Road Design Manual, Standard Plans, Published MDOT Design Advisories, Drainage Manual, Roadside Design Guide, A Policy on Geometric Design of Highways and Streets, Michigan Manual of Uniform Traffic Control Devices, etc.).

The Consultant is required to use a program compatible with the MDOT Current Version of Bentley Microstation/GEOPAK or PowerGEOPAK (published at Section 2.2.2 of the Design Submittal Requirements) with the current MDOT workspace (published at Section 2.2.1 of the Design Submittal Requirements). The consultant shall comply with all MDOT CADD standards and file naming conventions.

## **CONSULTANT RESPONSIBILITIES:**

Complete the scope of work related to the design of this project including, but not limited to the following:

- A. The Consultant must adhere to all applicable OSHA and MIOSHA safety standards, including the appropriate traffic signs for the activities and conditions for this job.
- B. Meet with the City Engineer/Project Manager to review the project, location of data sources and contact persons. The Consultant shall review and clarify project issues, data needs, and availability, and the sequence of events and team meetings that are essential to complete the design by the project plan completion date. Attention shall be given to critical target dates that may require a large lead time, such as geotechnical requirements, utility conflict resolution, local agency meetings, etc.

## **DELIVERABLES:**

This is a City of Flint MDOT/NHS project, therefore the Consultant shall enter in the appropriate folders all electronic files associated with the project in their native format (spreadsheets, CADD files, GEOPAK files, Roadway Designer Templates, etc.) as directed by the Project Manager. All CADD/GEOPAK files shall be created and identified with standard State and Federal file names. It is the Consultant's responsibility to obtain up to date Computer Programs and standards to meet State and Federal requirements. All computer programs that do not meet State or Federal standards will be returned to the Consultant for correction at the Consultant's expense.

Proposal documents shall be submitted to City Engineer, in the appropriate folders, in their native format with standard naming conventions as well as combined into one PDF file in the sequence specified by State and Federal Agencies. To provide text search capabilities the combined proposal shall be created by converting native electronic files to PDF. Scanning to PDF is discouraged except in instances where it is necessary to capture a legally signed document or a hard copy version of a document is all that exists.

Plan sheets shall be submitted to the City of Flint on 24" X 36" prints. The plan shall be put into appropriate folders in a set in PDF 24" x 36" format. For final Plan Turn-In, a title sheet shall be printed, signed, sealed, and then scanned for inclusion with the PDF set.

Reference Information Documents (RID) shall be entered into MDOT ProjectWise for the Atherton Rd. Bridge – JN126553A in the appropriate folder with standard naming conventions and content at milestone submittals as defined by Chapter 4 of the Design Submittal Requirements.

Stand Alone Proposal Estimator's Worksheet (SAPW) shall be used to generate the txt and xml files necessary for import into the Trns\*port bid letting software. The SAPW files shall be entered into MDOT ProjectWise in the appropriate folder.

All plans, special provisions, estimates, and other project-related items shall meet all requirements and detailing practices (i.e., format, materials, symbols, patterns, and layout) or as otherwise directed by the City Engineer/Project Manager. All plans, specifications, and other project-related items are subject to review and approval by the City Engineer/Project Manager.

The consultant will include a sealed bid cost estimate for engineering services. Sealed bids will only be open after the selection of the most highly qualified consultant.

**CONSULTANT PAYMENT – Actual Cost Plus Fixed Fee:**

Compensation for this project shall be on an **actual cost plus fixed fee** basis. This basis of payment typically includes an estimate of labor hours by classification or employee, hourly labor rates, applied overhead, other direct costs, sub-consultant costs, and applied fixed fees. The maximum fixed fee for-profit allowed for this project is 10.0% of the cost of direct labor and overhead.

All billings for services must be directed to the City of Flint and follow the current guidelines (Payment may be delayed or decreased if the instructions are not followed):

Payment to the Consultant for services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 30 days after the completion of services for the current billing. The final billing must be received within 30 days of the completion of services.

Monthly progress payments will be processed upon providing justification for the actual hours and expenses.

Progress payments will be processed up to the following guidelines:

<u>ITEM</u>	<u>% of Total</u>
Base Plans.....	30%
Grade Inspection Plans.....	80%
Final Plans, Proposal and Estimate.....	100%

Direct expenses, if applicable, will not be paid in excess of that allowed by the Department for its own employees in accordance with the State of Michigan’s Standardized Travel Regulations. Supporting documentation must be submitted with the billing for all eligible expenses on the project in accordance with the Reimbursement Guidelines. The only hours that will be considered allowable charges for this contract are those that are directly attributable to the activities of this project.

**PROPOSAL FORMAT AND EVALUATION/SELECTION CRITERIA:**

QBS will be the method used for selection. Proposals shall contain a clear, accurate, and detailed description of the scope of work, technical requirements, and qualifications of the consultants necessary for the service to be rendered. It should detail the services to be performed, deliverables to be provided, estimated schedule for performance of the work and applicable standards, specifications, and policies. Proposals should be prepared economically using 11-point font and single-sided paper. Each proposal should have one original bound proposal, one unbound copy and one electronic flash drive copy. All cost proposal sheets should be in a sealed envelope within the sealed proposal envelope. The inside envelope shall have the name of the project and the name of the firm with address and indicate that the bid prices are within on outside of the envelope. All not to exceed costs

are to be included in the bid. All mileage, equipment, testing, surveying, and any sub-contractor's cost shall be part of the not to exceed price. Respondents should organize proposals into the following sections:

- A. Title Page and Table of Contents all pages to be number and shown in Table of Contents (pages 1 and 2)
- B. Professional Qualifications –
  1. State full name and address of your organization, the office location where work will be performed. Include the history of the firm and types of engineering services provided. Identify the technical details which make the firm uniquely qualified for this project. (Title this section B1. Firms History)
  2. Include your organization chart with the names of the key personnel by skill and qualifications that will be employed on this project design. Indicate each person's MDOT Certifications. Show where the personnel will be physically located during the time they are engaged in this project design. (Title this section B2. Organization Chart)
  3. For each of the personnel Identify in Section B2 and any other individuals you consider key to the success of this project. Provide resumes (2-page maximum) including surveyors and any sub-consultant(s). (Title this section B3. Professional Qualifications)
- C. Past Involvement with Similar Projects –
  1. Provide a minimum of 5 projects (3 Projects that relate to just Roads and 2 Projects that are both Road and Water Main) that showcase similar experience to the project being proposed. The related projects must have been **completed** in the last 10 years. The projects should show your Firm's proven ability to develop detailed designs and implementing similar federally funded road projects and water mains projects for cities and counties. ( Title this section C1. Similar Projects)
  2. On each of the above-related projects:
    - a) Give the size and the scope of the project
    - b) Show the date that the project's design started.
    - c) Show the proposed design completion date.
    - d) Show the date for the 80% GI.
    - e) Show the design actual completion date
    - f) Show the bid opening date.
    - g) Show the original design bid cost.
    - h) Show the finished design cost.
    - i) Show the engineer estimated cost of the project.
    - j) Show the construction bid cost of the project.
    - k) Show the key personnel of the project and what their role was.
    - l) Bold type or underline the key personnel of these projects that will be working on our project.
    - m) Please explain reasons if projects were not completed on time, design cost was exceeded, or project cost was over or under 10% of the engineer's estimate. If all projects came in on time and cost indicate this.
  3. Provide a list of five (5) references for similar projects including their contact name, agency, telephone number and email address. ( Title this section C2. References)
- D. Project Challenges-

1. What do you see as the biggest challenges for completing the preliminary engineering for this Project? How will your Company overcome these challenges? (Title this section D1. Challenges)
  2. What ideas do you have for this project that you believe will save money and/or time? (Title this section D2. Savings)
- E. Proposed Work Plan –
1. Provide a detailed design flow chart, which lists chronologically all tasks determined to be necessary to accomplish the work of this project. The work plan shall be sufficiently detailed and clear to identify the progress milestones including when project tasks and deliverables a timeline and schedule for design depicting the sequence and duration of tasks showing how the work will be organized and executed. Estimated time of completion to the MDOT bid. ( Title this section E1. Timeline)
  2. Include information that your firm believes is pertinent to the success of the project that may not have been requested or identified. ( Title this section E2. Pertinent Information)
  3. Provide detail of what Quality Control and Quality Assurance will be utilized on the design of this project and in past projects. (Title this section E3. QC/QA)
- F. Capacity to follow instructions –
1. All the instructions for the proposal have been followed and completed.

The written proposal shall be evaluated on the clarity and content of their responses. The evaluators will include the City Engineer, Transportation Director, and DPW.

The most highly qualified consultant will be selected, the City of Flint will proceed to open the cost proposal and begin negotiations. Price or cost-related items such as cost proposals, direct salaries/wage rates, and other direct costs, SHALL NOT be used as an evaluation factor. In-State or local preference SHALL NOT be used as an RFP selection or consultant evaluation factor. If the City cannot come to an agreement with the highest qualified, then negotiations will begin with the next most qualified.

## Scoring for P.E. for Miller Road from Ballenger Highway to Hammerberg Road

**300 Max Points for Qualification Evaluation – Page 1 of 2**

### Qualification Evaluation Category's

<p><b>Section B1. Firms History.</b> Stated full name and address of their organization, the office location where work will be performed. Included the history of the firm and types of engineering services provided. Identified the technical details which makes their firm uniquely qualified for this project.)</p>	<p><b>20</b></p>
<p><b>Section B2. Organization Chart.</b> Included an organization chart with the names of the key personnel by skill and qualifications that will be employed on this project design. Indicate each person's MDOT Certifications. Show where the personnel will be physically located during the time they are engaged in this project design.</p>	<p><b>25</b></p>
<p><b>Section B3. Professional Qualifications.</b> For each of the personnel Identified in Section B2 and any other individuals they consider key to the success of this project. They provided resumes (2-page maximum) including surveyors and any sub-consultant(s).</p>	<p><b>20</b></p>
<p><b>Section C1. Similar Projects.</b> They provided a minimum of 5 projects (3 Projects that relate to just Roads and 2 Projects that are both Road and Water Main) that showcase similar experience to the project being proposed. The related projects must have been completed in the last 10 years. The projects should show your Firm's proven ability to develop detailed designs and implementing similar federally funded road projects and water mains projects for cities and counties.</p>	<p><b>70</b></p>
<p><b>Section C2. References.</b> Provided a list of five (5) references for similar projects including their contact name, agency, telephone number and email address.</p>	<p><b>10</b></p>

## Scoring for P.E. for Miller Road from Ballenger Highway to Hammerberg Road

### 300 Max Points for Qualification Evaluation – Page 2 of 2

<b>Section D1. Challenges.</b> What they saw as the biggest challenges for completing the preliminary engineering for this Project? How their Company will overcome these challenges?	<b>30</b>
<b>Section D2. Savings.</b> How will they save time and cost on this project	<b>30</b>
<b>Section E1. Timeline.</b> Provided a detailed design flow chart, which lists chronologically all tasks determined to be necessary to accomplish the work of this project. The work plan shall be sufficiently detailed and clear to identify the progress milestones including when project tasks and deliverables a timeline and schedule for design depicting the sequence and duration of tasks showing how the work will be organized and executed. Estimated time of completion to the MDOT bid.	<b>50</b>
<b>Section E2. Pertinent Information.</b> What the firm believes is pertinent to the success of the project that may not have been requested or identified.	<b>20</b>
<b>Section E3. QC/QA.</b> What Quality Control and Quality Assurance will be utilized on the design of this project.	<b>10</b>
<b>All the instructions for the proposal have been followed and completed.</b>	<b>15</b>
<b>Total Evaluation Points</b>	<b>300 Maximun Points</b>

**THIS PAGE MUST BE COMPLETED AND INCLUDED WITH SUBMITTAL:**

The undersigned hereby certifies, on behalf of the respondent named in this Certification (the "Respondent"), that the information provided in this offer submitted to the City of Flint is accurate and complete, and that I am duly authorized to submit same. I hereby certify that the Respondent has reviewed all documents and requirements included in this offer and accept its terms and conditions.

Cash Discounts will be computed from the date of receipt of invoice. Prices firm unless stated otherwise by bidder. Delivery can be made in ( ) days ARO (after receipt of order).

Payment Terms: \_\_\_\_\_ Delivery Dest.: \_\_\_\_\_ Fed. ID #: \_\_\_\_\_  
(All Freight Terms are considered F.O.B., Prepaid unless otherwise noted by seller)

COMPANY NAME (Respondent): \_\_\_\_\_  
(Printed)

ADDRESS : \_\_\_\_\_

CITY/STATE/ZIP : \_\_\_\_\_

PHONE : \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL : \_\_\_\_\_

PRINT NAME and Title : \_\_\_\_\_  
(Authorized Representative)

SIGNED : \_\_\_\_\_ DATE: \_\_\_\_\_  
(Authorized Representative)

**Please submit original documents plus one copy.**

New vendors are required to compete and submit an IRS W-9 Form and Vendor ACH Form with the City of Flint. Link is available at <https://www.cityofflint.com/finance/accounts-payable-department/>

Bid results may be viewed next business day online EXCEPT when a bid is under review. <https://www.cityofflint.com/finance/purchasing/results/> under "bid results".

**CITY OF FLINT, MICHIGAN  
AFFIDAVIT FOR INDIVIDUAL**

STATE OF .....

S.S.

COUNTY OF .....

.....being duly sworn, deposes and says that he is the person making the above bid; and that said bid is genuine and not sham or collusive, and is not made in the interest of or on behalf of any person not therein named, and that he has not directly or indirectly induced or solicited any bidder to put in a sham bid; that he has not directly or indirectly induced or solicited any other person or corporation to refrain from bidding, and that he has not in any manner sought by collusion to secure to himself any advantage over other bidders.

Subscribed and sworn to before me at ....., in said County and State,  
this ..... day of ....., A. D. 20 .....

.....

\*Notary Public, .....County,.....

My Commission expires ....., 20 .....

CITY OF FLINT, MICHIGAN  
FOR CORPORATION

STATE OF .....

COUNTY OF .....

s.s.

..... being duly sworn, deposes and says that

he is ..... of .....  
(Official Title) (Name of Corporation)

a corporation duly organized and doing business under the laws of the State of .....  
the corporation making the within and foregoing bid; that he executed said bid in behalf of said corporation by  
authority of its Board of Directors; that said bid is genuine and not sham or collusive and is not made in the interests  
of or on behalf of any person not herein named, and that he has not and said bidder has not directly or indirectly  
induced or solicited any bidder to put in a sham bid; that he has not and said bidder has not directly or indirectly  
induced or solicited any other person or corporation to refrain from bidding; that he has not and said bidder has not  
in any manner sought by collusion to secure to himself or to said corporation an advantage over other bidders.

Subscribed and sworn to before me at ....., in said County and State,

this ..... day of ....., A. D. 20 .....

.....

\*Notary Public, ....., County,.....

My Commission expires....., 20.....

**CITY OF FLINT, MICHIGAN  
FOR PARTNERSHIP**

STATE OF.....

COUNTY OF .....

s.s.

..... , being duly sworn, deposes and says that he is a member of the firm of ..... , a co-partnership, making the above bid; that he is duly authorized to make said bid in behalf of said co-partnership; that said bid is genuine and not sham of collusive and not made in the interests of or on behalf of any person not therein named, and that he has not and said bidder has not directly or indirectly induced or solicited any bidder to put in a sham bid; that he has not and said bidder has not directly or indirectly induced or solicited any other person or corporation to refrain from bidding, and that he has not and said bidder has not in any manner sought by collusion to secure to himself or to said bidder any advantage over other bidders.

Subscribed and sworn to before me at ..... in said County and State  
this ..... day of ....., A. D. 20 .....

.....

\*Notary Public.....County.....

My commission expires.....20.....

CITY OF FLINT, MICHIGAN  
FOR AGENT

STATE OF .....

s.s.

COUNTY OF .....

..... being duly sworn, deposes and says that he executed the within and foregoing bid in behalf of .....  
....., the bidder therein named, he having been theretofore lawfully authorized, as the agent of said bidder, so to do; that said bid is genuine and not sham or collusive and not made in the interests of or on behalf of any person not therein named, and that he has not and said bidder has not directly or indirectly induced or solicited any bidder to put in a sham bid; that he has not and said bidder has not directly or indirectly induced or solicited any other person or corporation to refrain from bidding, and that he has not and said bidder has not in any manner sought by collusion to secure to himself or to said bidder any advantage over other bidders.

Subscribed and sworn to before me at ....., in said County and State, this ..... day of ....., A. D. 20 .....

.....

\*Notary Public.....County.....

My Commission expires ....., 20.....

**NOTE:** IF EXECUTED OUTSIDE THE STATE OF MICHIGAN, CERTIFICATE BY CLERK OF THE COURT OF RECORD, AUTHENTICATING THE NOTARY'S SIGNATURE AND AUTHORITY SHOULD BE ATTACHED.

**LEAVE PAGE BLANK**

## WATER MAIN SIZES CHART

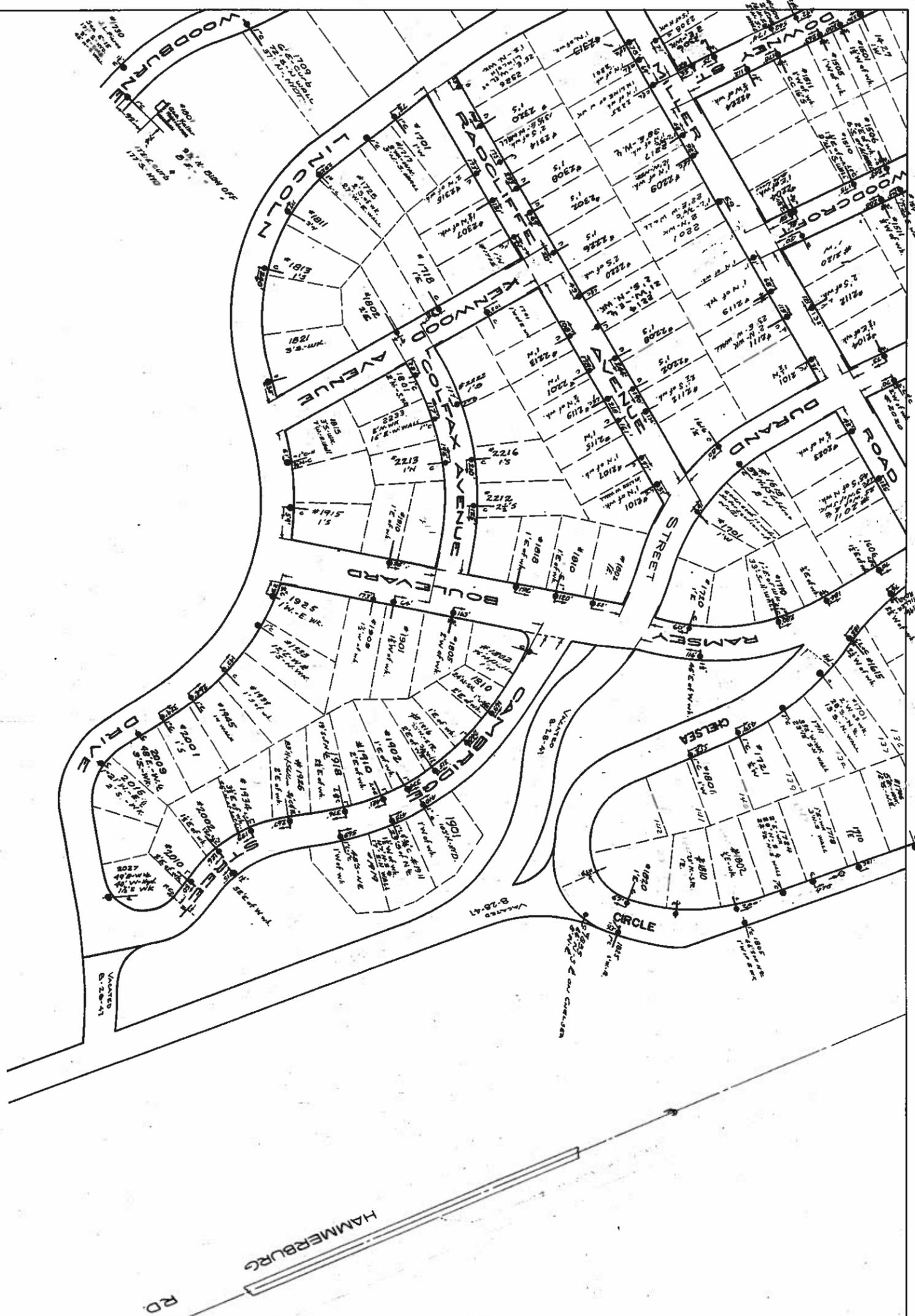
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30 INCH PIPE		
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HYDRANT		
VALVE IN VALVE BOX		
VALVE IN MANHOLE		
HORIZONTAL VALVE		
BYPASS BLOWOFF MANHOLE		
PLUG		X
REDUCER		
MECHANICAL JOINT		M.J.



F 15

F 13

Water  
Services



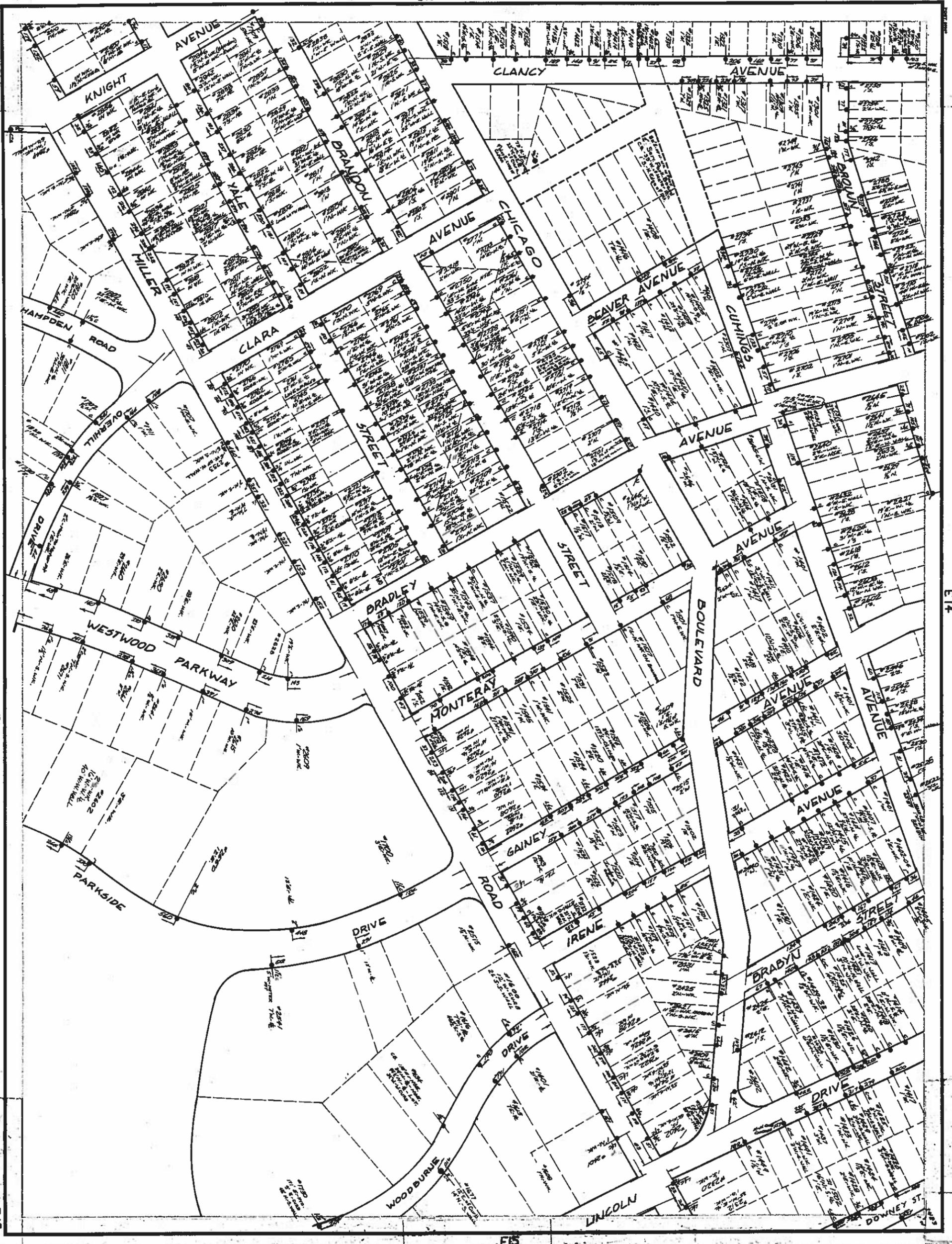
F 16

F 14

SWATTE CREEK  
Swimming Pool  
CB 150.25 of 2d 1st of 5th Abutment of Dam  
1/4th SW of 1st 1/2 1st of 5th Abutment of Dam

NEW BRICK KITCHENS  
S.W. 1/4  
G.E.M. WALL  
S.W. 1/4 WALL  
W.B. OF SUBDIVISION

Water  
Services



E14

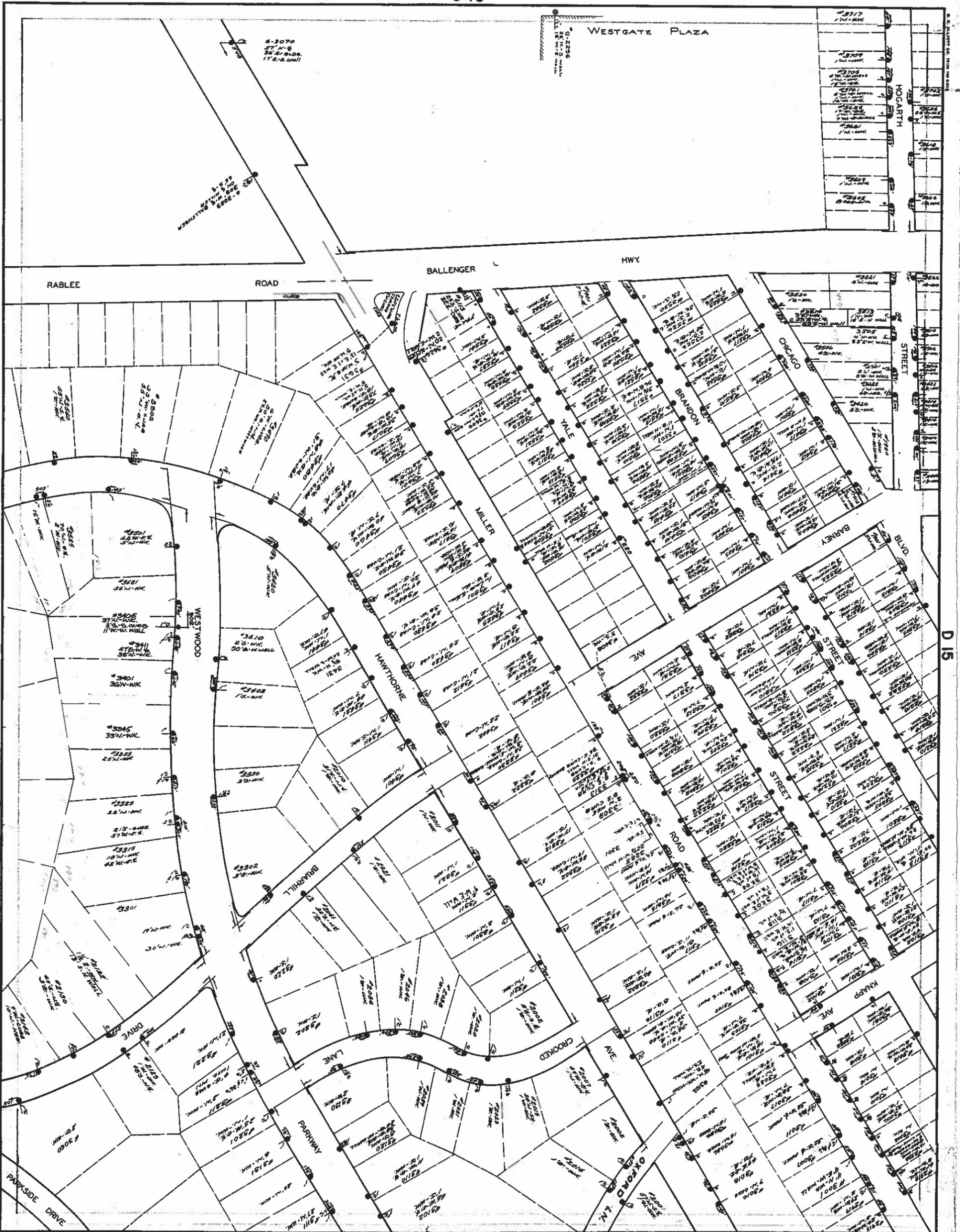
F16

F15

F15

Water Services

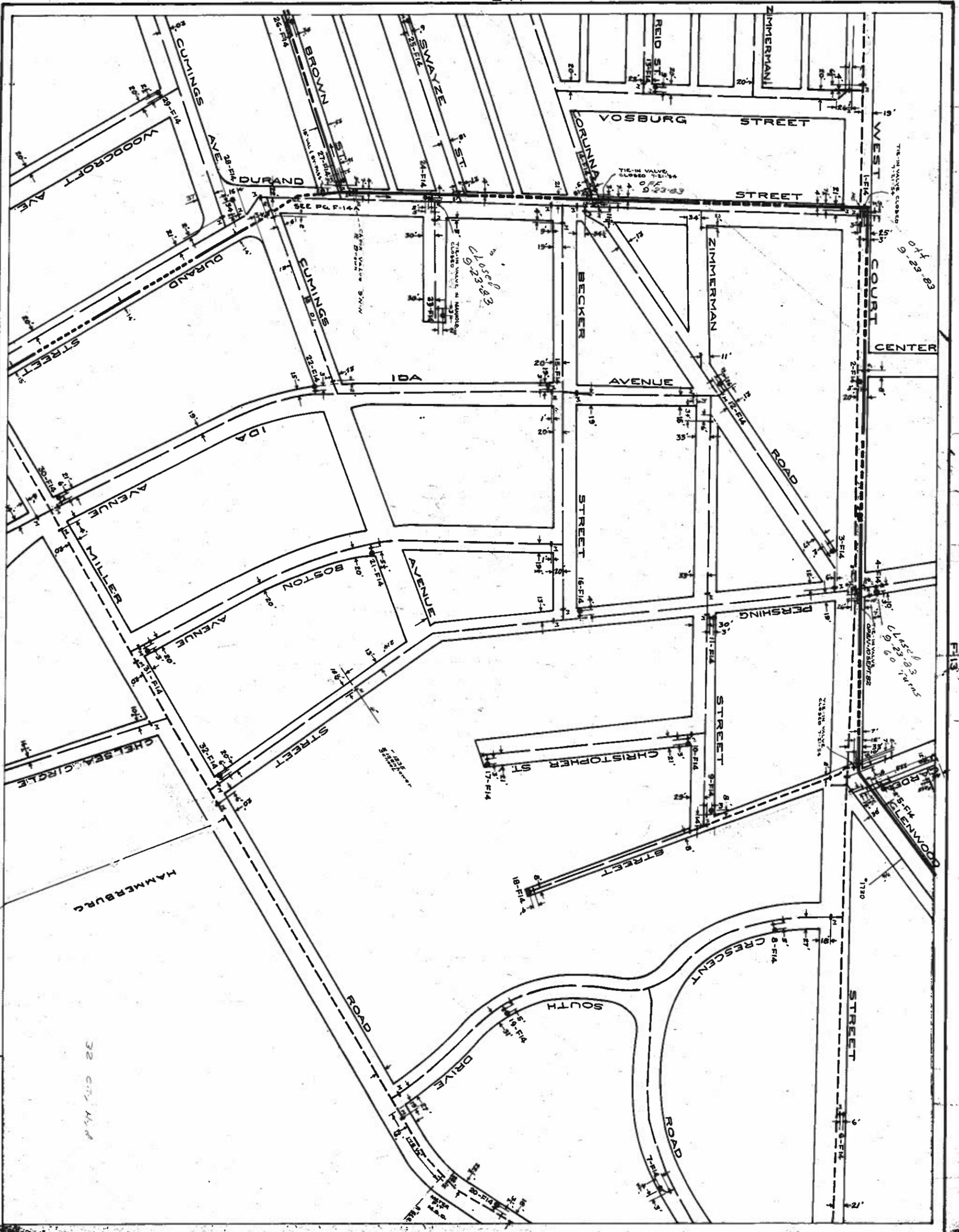
C 16



E 16

Water Services

F-14

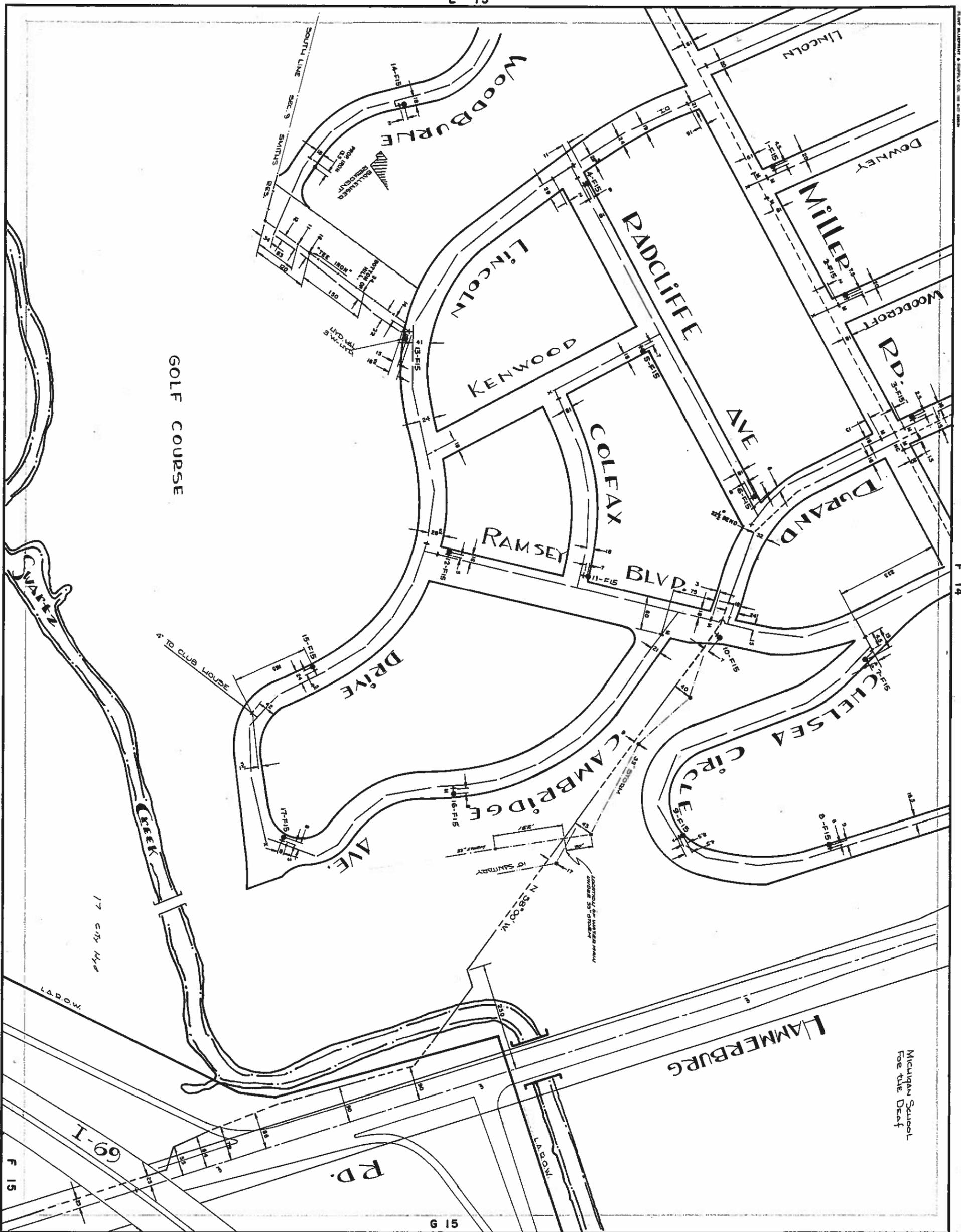


F-15

F-14

Water  
Mains

E 15



F 15

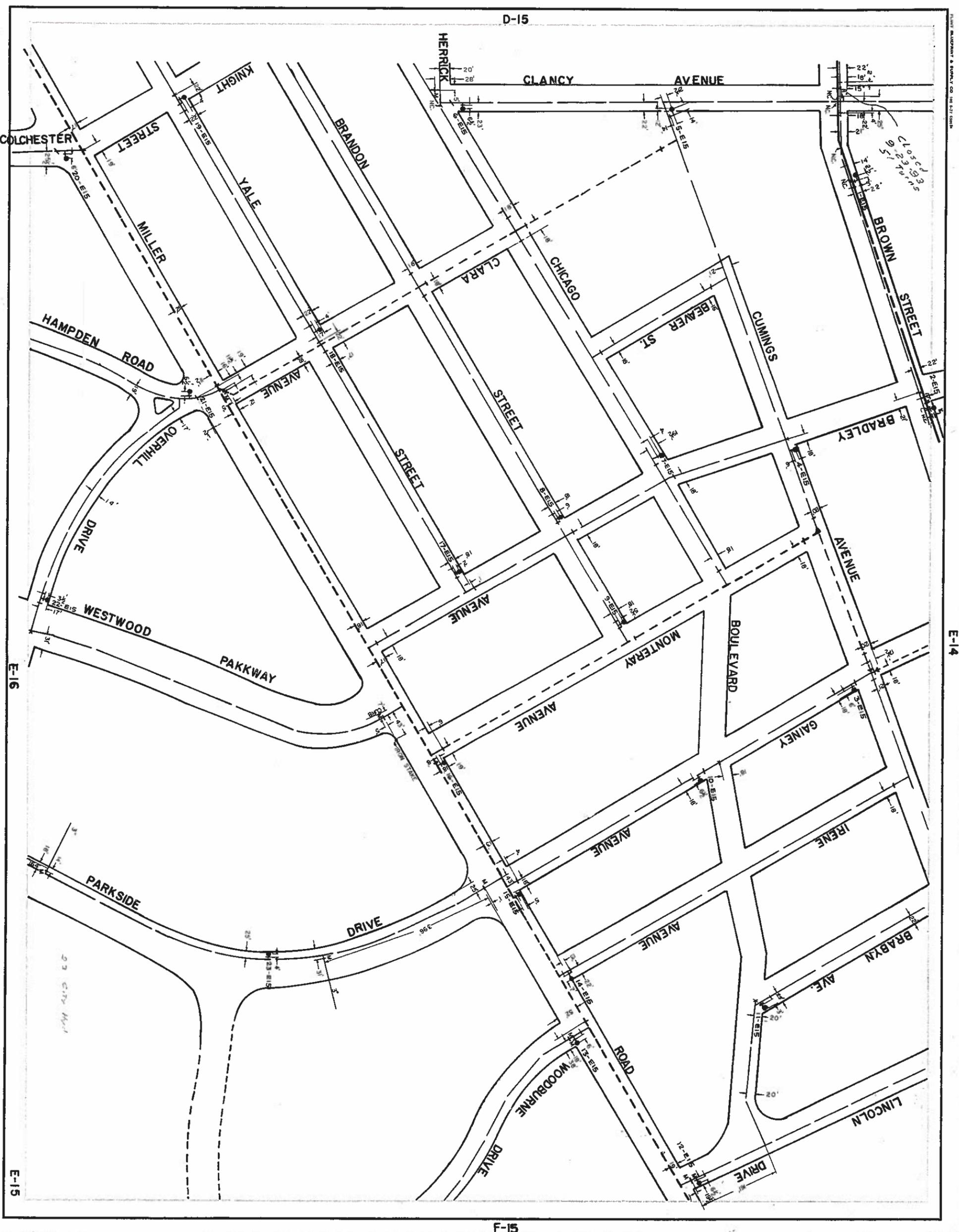
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PLANT MATERIALS & SUPPLY CO. INC. 107 10th ST. S.E.

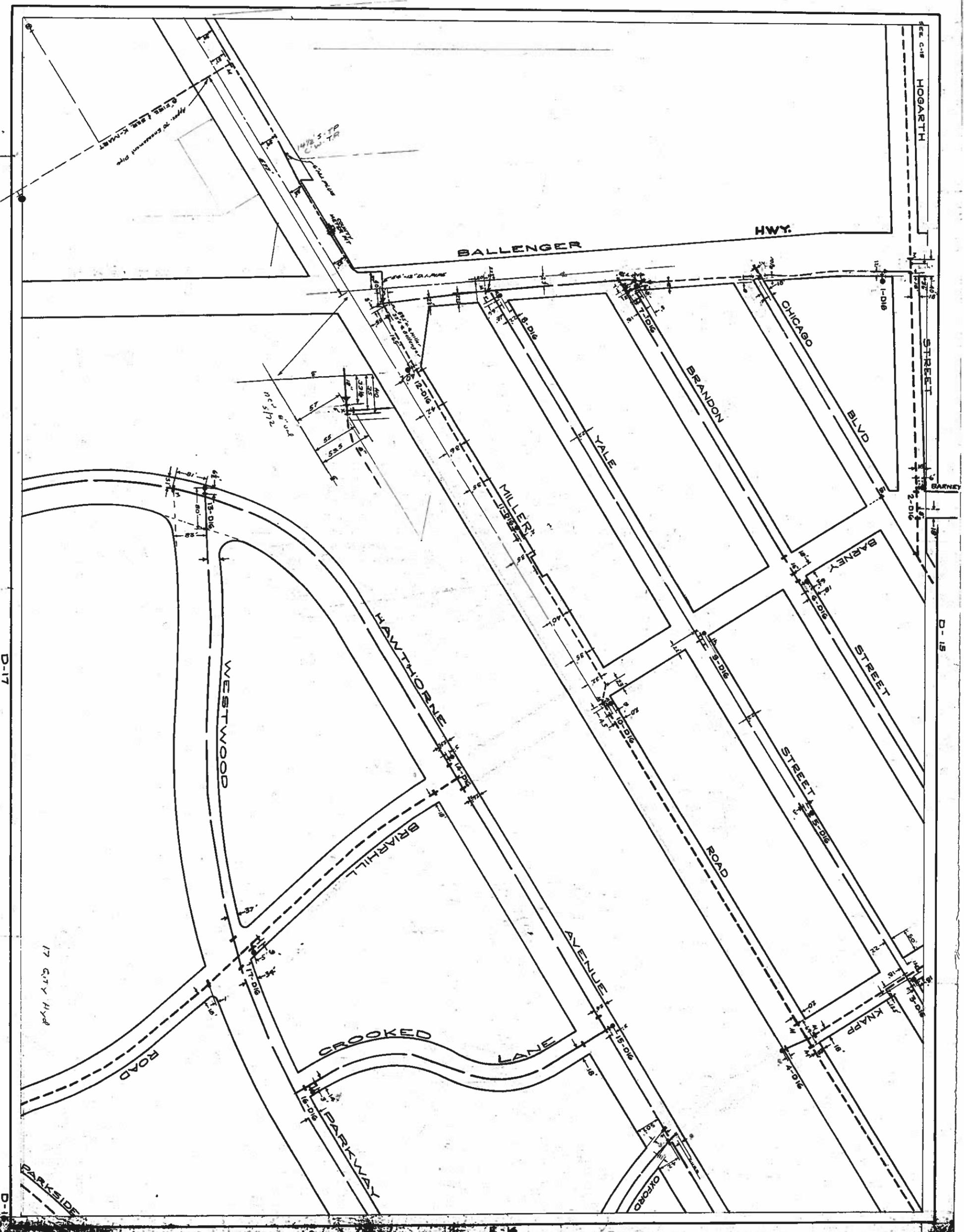
F 14

Michigan School For the Deaf

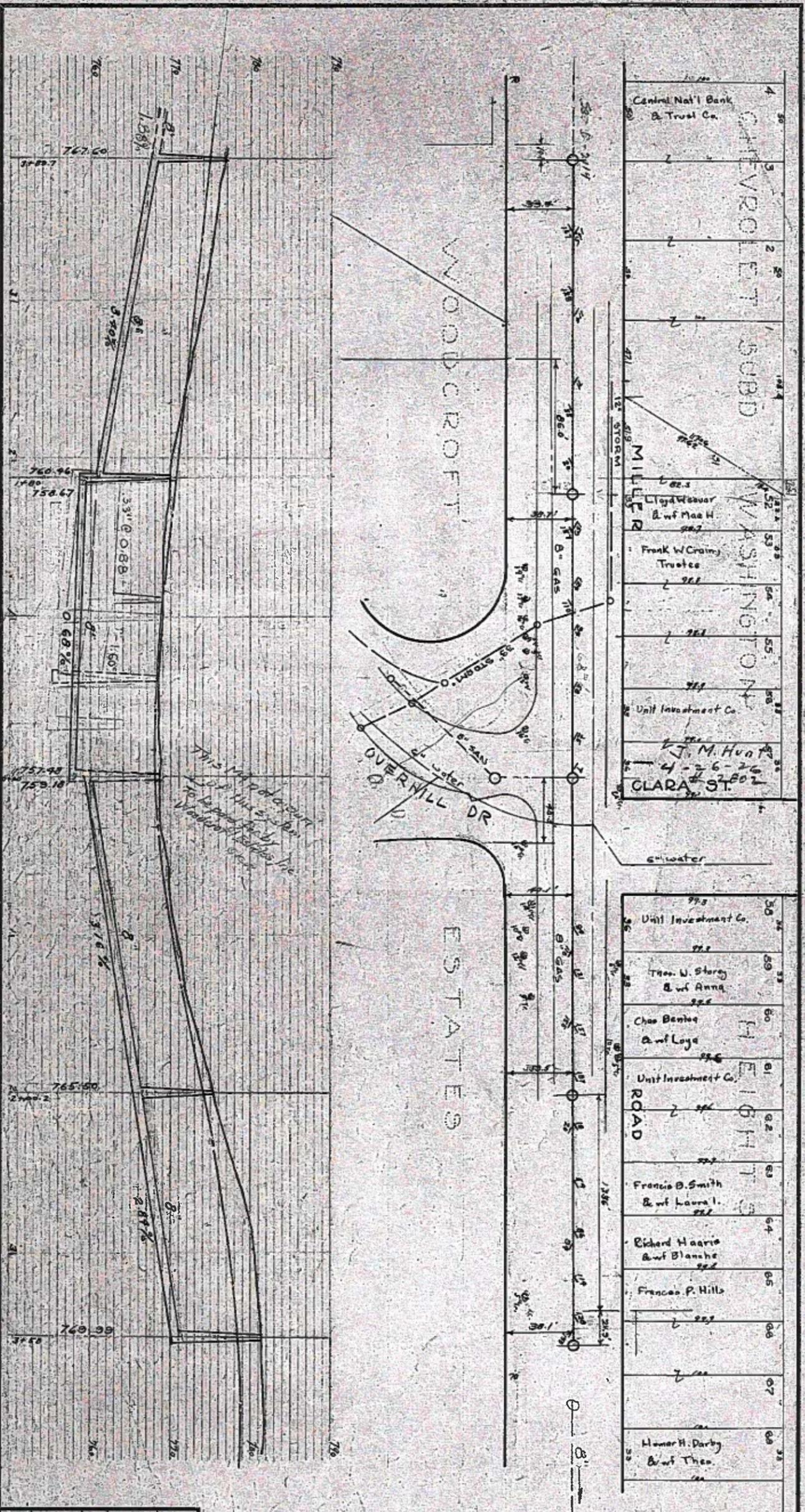
Water Mains



Water  
Mains



Water  
Main

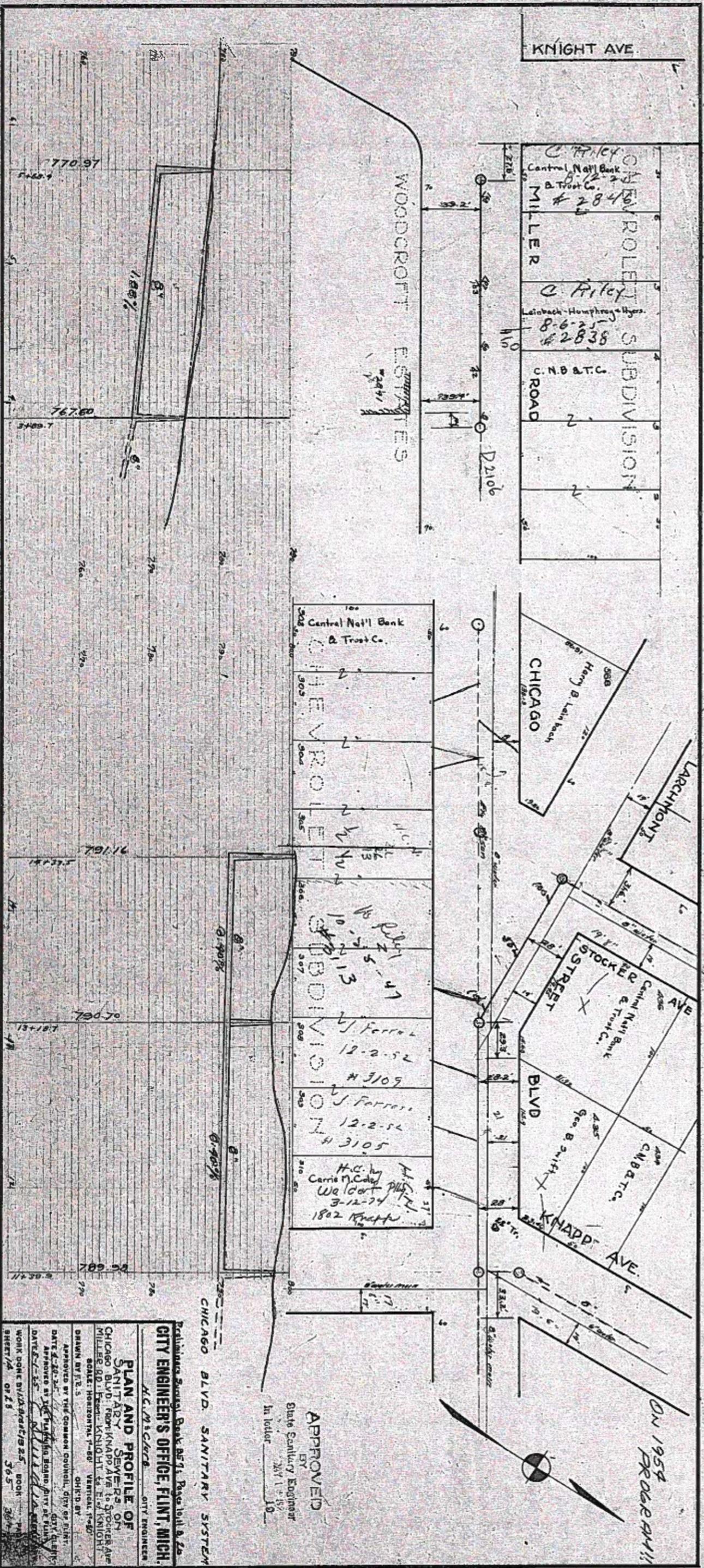


4	Central Nat'l Bank & Trust Co.
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APPROVED  
 BY  
 State Sanitary Engineer  
 In letter MAY 13 1927  
 19

Practitioner Survey Book 357, Royal, 1924  
**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 H.C.H. CLINE CITY ENGINEER  
**PLAN AND PROFILE OF  
 MILLER ROAD SANITARY SEWER**  
 FROM 300N E. OF CLARA ST. TO 400N W. CLARA  
 SCALE: HORIZONTAL 1"=50' VERTICAL 1"=40'  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY THE COMMON COUNCIL, CITY OF FLINT,  
 DATE: [Signature]  
 APPROVED BY THE BOARD OF PUBLIC WORKS, CITY OF FLINT,  
 DATE: [Signature]  
 WORK DONE BY: [Signature] 1925 BOOK 363 PAGE 245  
 SHEET 1 OF 25



ON 1954  
PROG. 6411

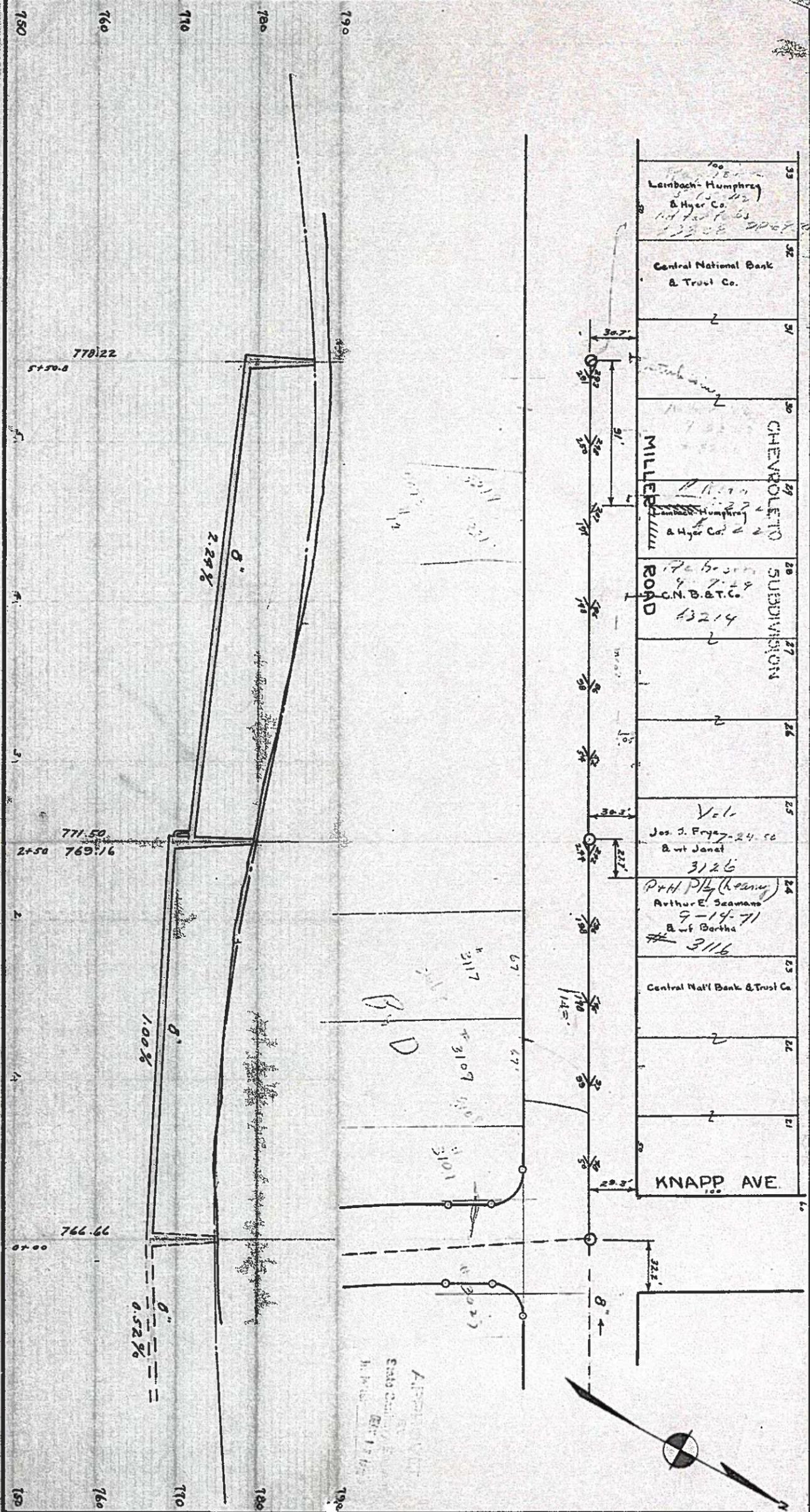
APPROVED  
BY  
State Sanitary Engineer  
In letter 2/11/52

Preliminary Sanitary Sewerage System  
CITY ENGINEER'S OFFICE, FLINT, MICH.  
M.C. McCLURE CITY ENGINEER

PLAN AND PROFILE OF  
SANITARY SEWERAGE  
ON  
CHICAGO BLVD. FROM KNAPP AVE TO STOCKER AVE  
MILLER RD. FROM KNAPP AVE TO E. J. KNIGHT  
SCALE: HORIZONTAL 1"=50' VERTICAL 1"=50'  
DRAWN BY P.E.S. O.H.S.D. BY  
APPROVED BY THE COMMON COUNCIL, CITY OF FLINT, MICH.  
DATE 4-26-52  
APPROVED BY THE BOARD OF PUBLIC WORKS  
DATE 5-25-52  
WORK DONE BY D.A. 365-367  
SHEET 14 OF 25







APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

Preliminary Survey Book 348 Page 394-400

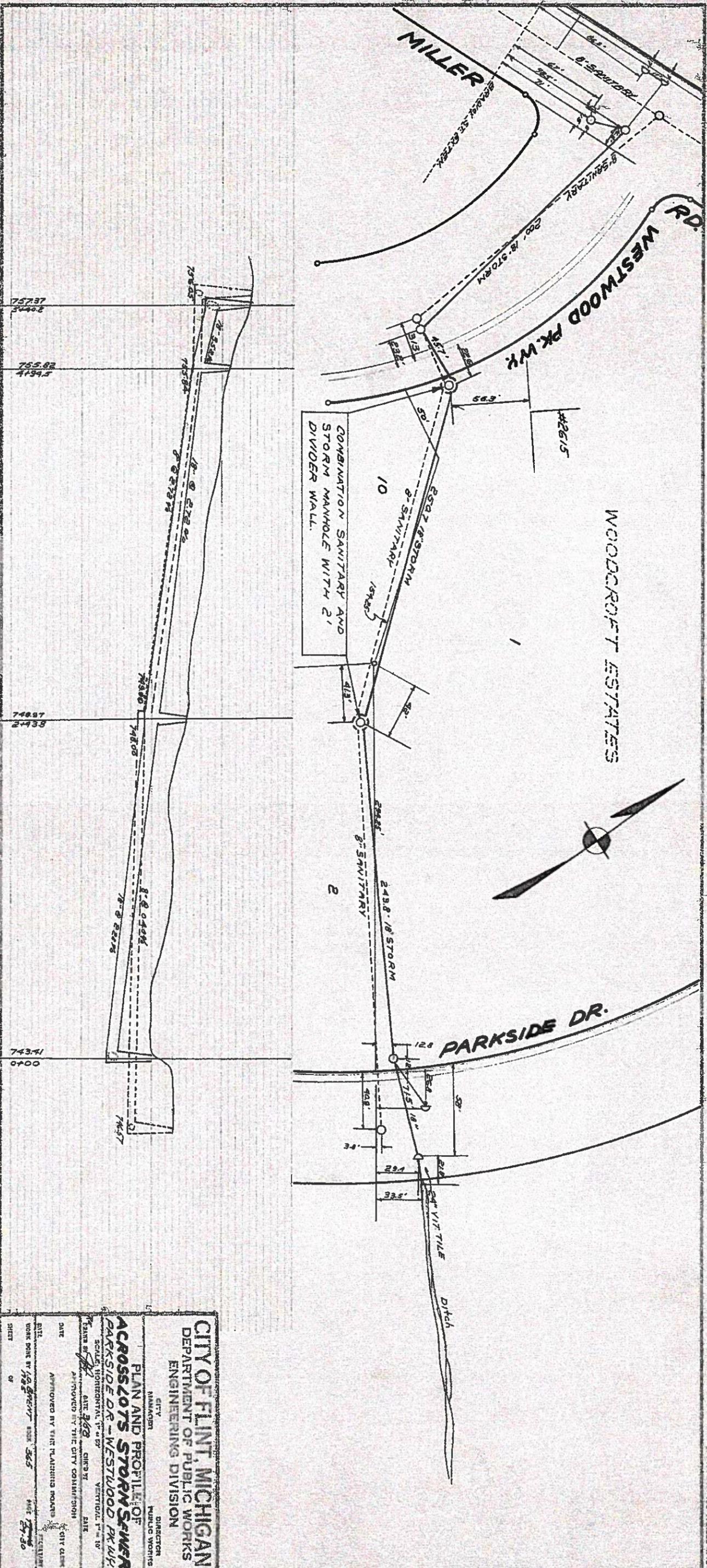
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LENGTH - EST.											
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SYSTEM											
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CU. YDS. - EST.											
ACTUAL											
SYSTEM											
MANHOLES - EST.											
ACTUAL											
SYSTEM											

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
CITY ENGINEER

**PLAN AND PROFILE OF MILLER RD. SANITARY SEWER**  
From Knapp Ave. to E. of Barney

SCALE: HORIZONTAL 1"=60' VERTICAL 1"=10'  
DRAWN BY L.V.L. C.H.W. BY [Signature]

APPROVED BY THE COMMON COUNCIL, CITY OF FLINT.  
DATE: 6-23-25  
APPROVED BY THE SANITARY BOARD, CITY OF FLINT.  
DATE: 2-24-26  
WORK DONE BY C.E.V. 1925 BOOK PAGE 366 11-12



**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

**PLAN AND PROFILE OF  
 ACROSS LOTS STORM SEWER  
 PARKSIDE DR - WESTWOOD PK WY**

SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 10'

DATE: APR 24 1938 CITY ENGINEER: [Signature]  
 APPROVED BY THE CITY COMMISSION: [Signature]

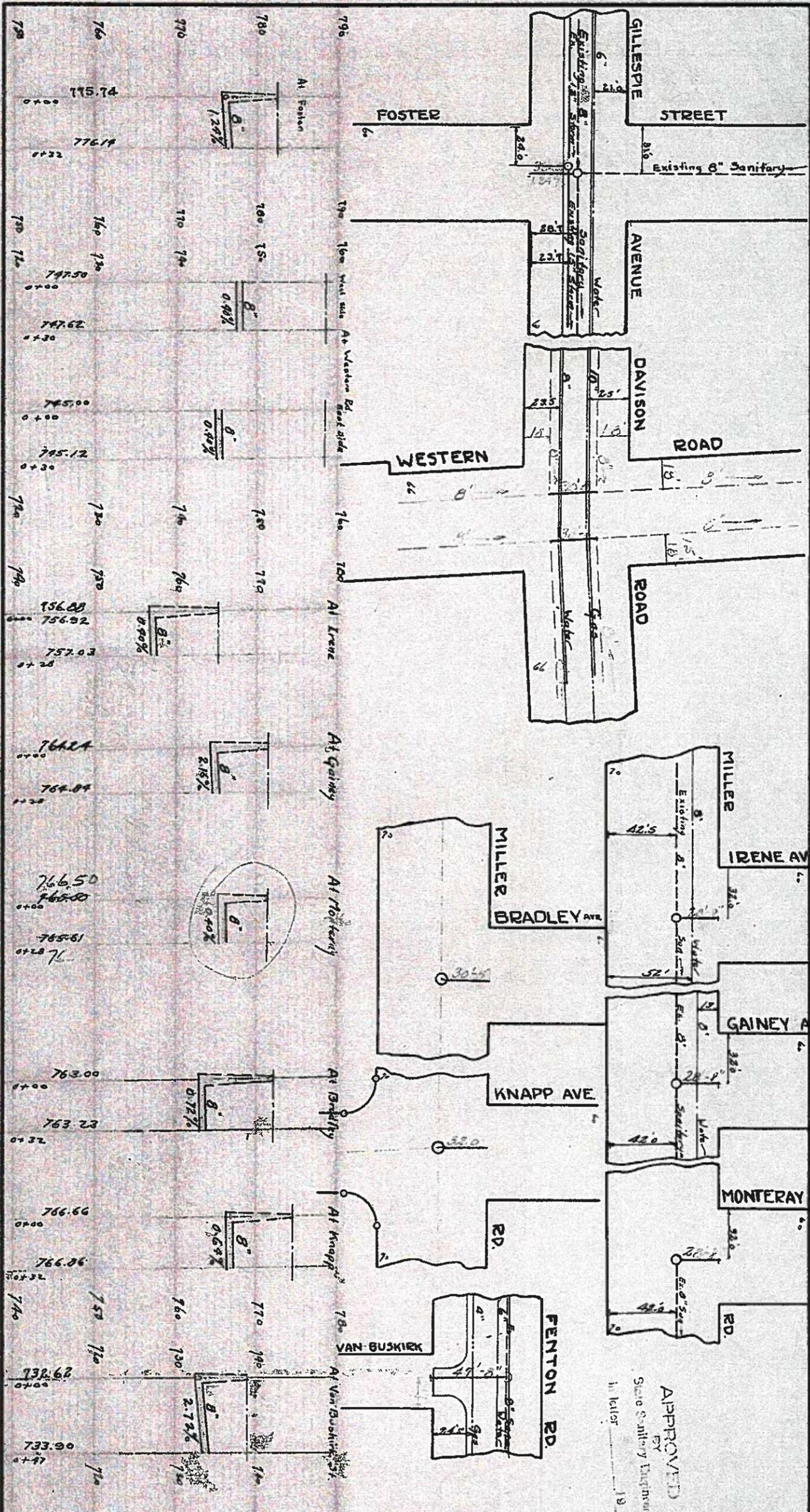
DATE: APR 24 1938 CITY ENGINEER: [Signature]  
 APPROVED BY THE PLANNING BOARD: [Signature]

DATE: APR 24 1938 CITY ENGINEER: [Signature]  
 APPROVED BY THE CITY COMMISSION: [Signature]

DATE: APR 24 1938 CITY ENGINEER: [Signature]  
 APPROVED BY THE PLANNING BOARD: [Signature]

DATE: APR 24 1938 CITY ENGINEER: [Signature]  
 APPROVED BY THE CITY COMMISSION: [Signature]

D-2283



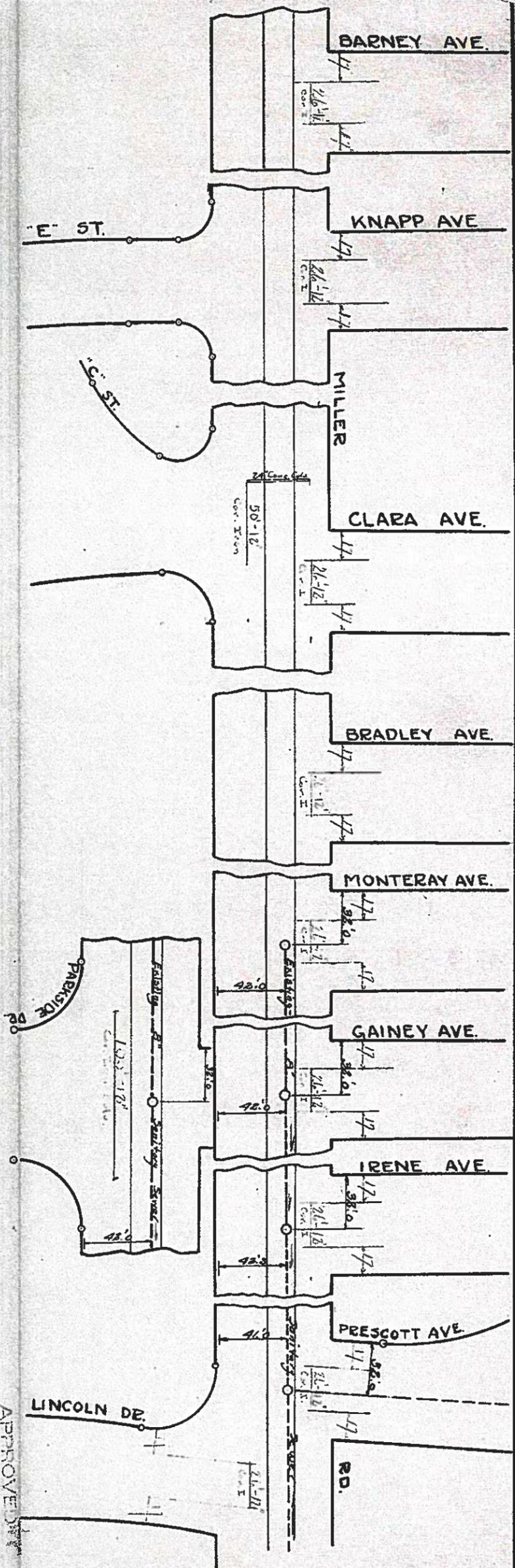
APPROVED  
BY  
Scale of Utility Engineer  
H. Heller  
19

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

QUANTITIES

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ACTUAL										
SYSTEM										
MANHOLES - EST.										
ACTUAL										
SYSTEM										

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
**PLAN AND PROFILE OF SANITARY SEWER STUBS**  
 Miller, Davison Rd., & Gillespie Ave.  
 SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'  
 DRAWN BY L. W. L.  
 APPROVED BY THE COMMON COUNCIL, CITY OF FLINT.  
 DATE OF THE PLANNING BOARD, CITY OF FLINT.  
 DATE OF THE PLANNING BOARD, SECRETARY  
 WORK DONE BY CIVIL BOOK  
 SHEET OF 36 F 75-B

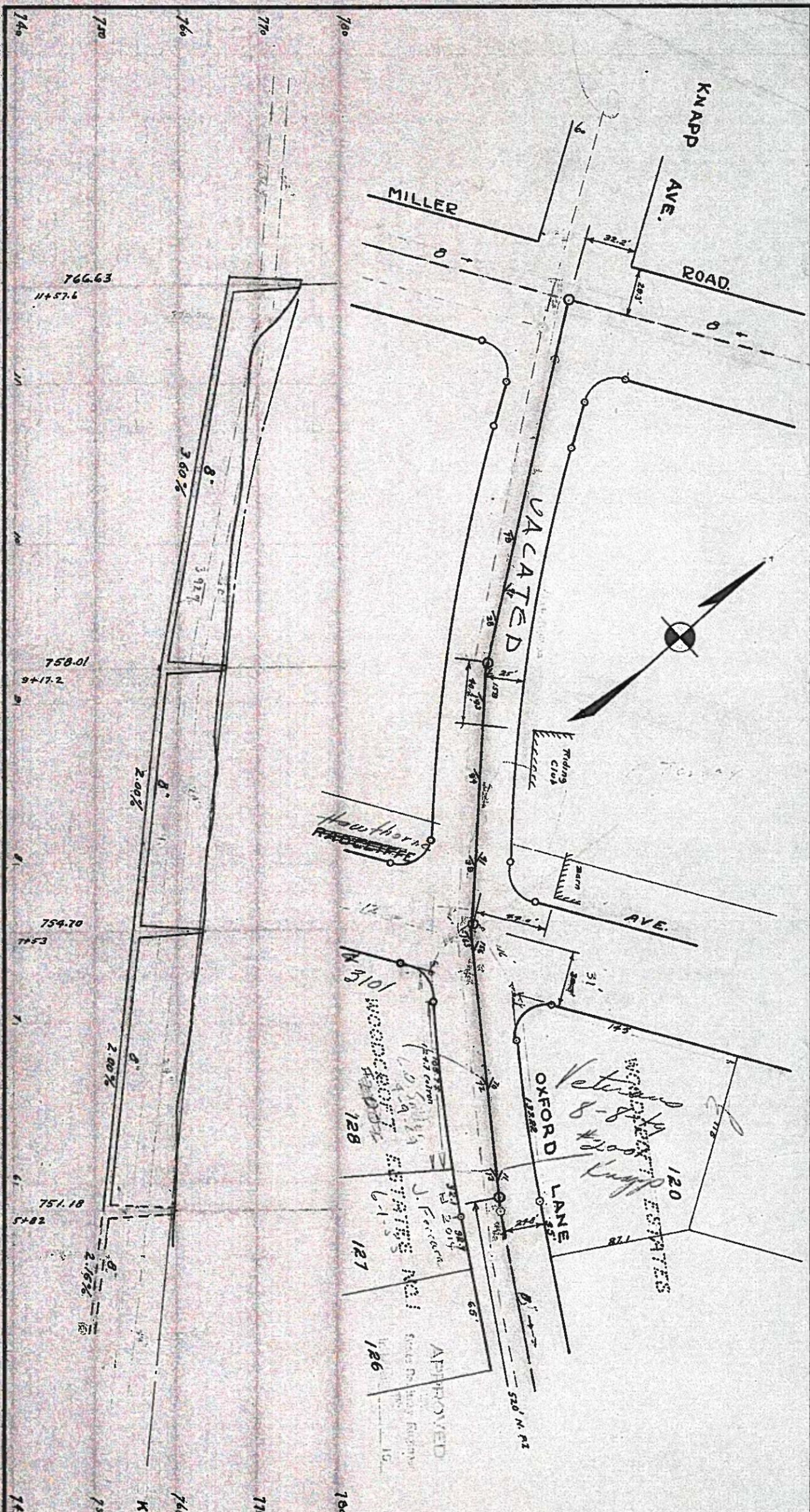


APPROVED BY  
 State Sanitary Engineer  
 In letter \_\_\_\_\_

Approved by State Sanitary Engineer  
 in letter dated \_\_\_\_\_ 19\_\_

		QUANTITIES									
SIZE - INS.		8	10	12	15	18	20	24	30	36	42
LENGTH - EST.											
ACTUAL											
SYSTEM											
EXCAVATION		0-6	6-8	8-10	10-12	12-14	14-16	16-18			
CU. YDS. - EST.											
ACTUAL											
SYSTEM											
MANHOLES - EST.											
ACTUAL											
SYSTEM											

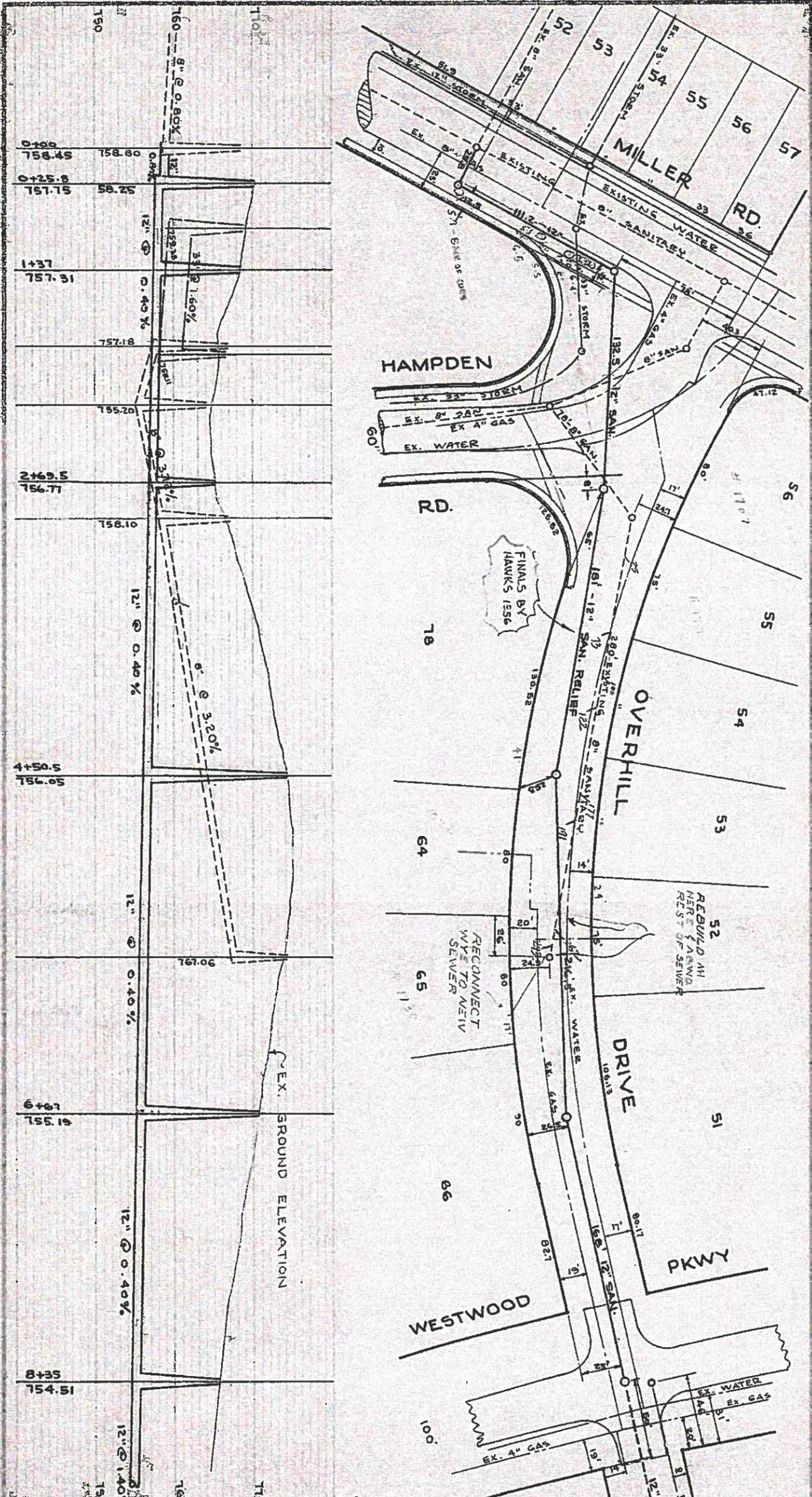
**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 CITY ENGINEER  
**PLAN AND PROFILE OF  
 CULVERTS FOR MILLER RD.**  
 From: Lincoln Dr. to Barney Ave.  
 SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'  
 DRAWN BY L.M.A. CHK'D BY  
 APPROVED BY THE COMMON COUNCIL, CITY OF FLINT.  
 DATE APPROVED BY THE PLANNING BOARD, CITY OF FLINT. CITY CLERK  
 DATE WORK DONE BY BOOK PAGE  
 SHEET OF SECRETARY



APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

		QUANTITIES									
SIZE - INS.		8	10	12	15	18	20	24	30	36	42
LENGTH - EST.	ACTUAL										
EXCAVATION	CU. YDS. - EST.	0-6	6-8	8-10	10-12	12-14	14-16	16-18			
MANHOLES - EST.	ACTUAL										
	SYSTEM										

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
**PLAN AND PROFILE OF**  
**KNAPP AVE SANITARY SEWER**  
 FROM: S. of P. St. to Miller Rd.  
 SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'  
 DRAWN BY: L. W. L.  
 APPROVED BY THE COMMON COUNCIL, CITY OF FLINT  
 DATE: 5-21-23  
 WORK DONE BY: D. S. G. '23  
 SHEET 13 OF 13



APPROVED  
BY  
State Sanitary Engineer

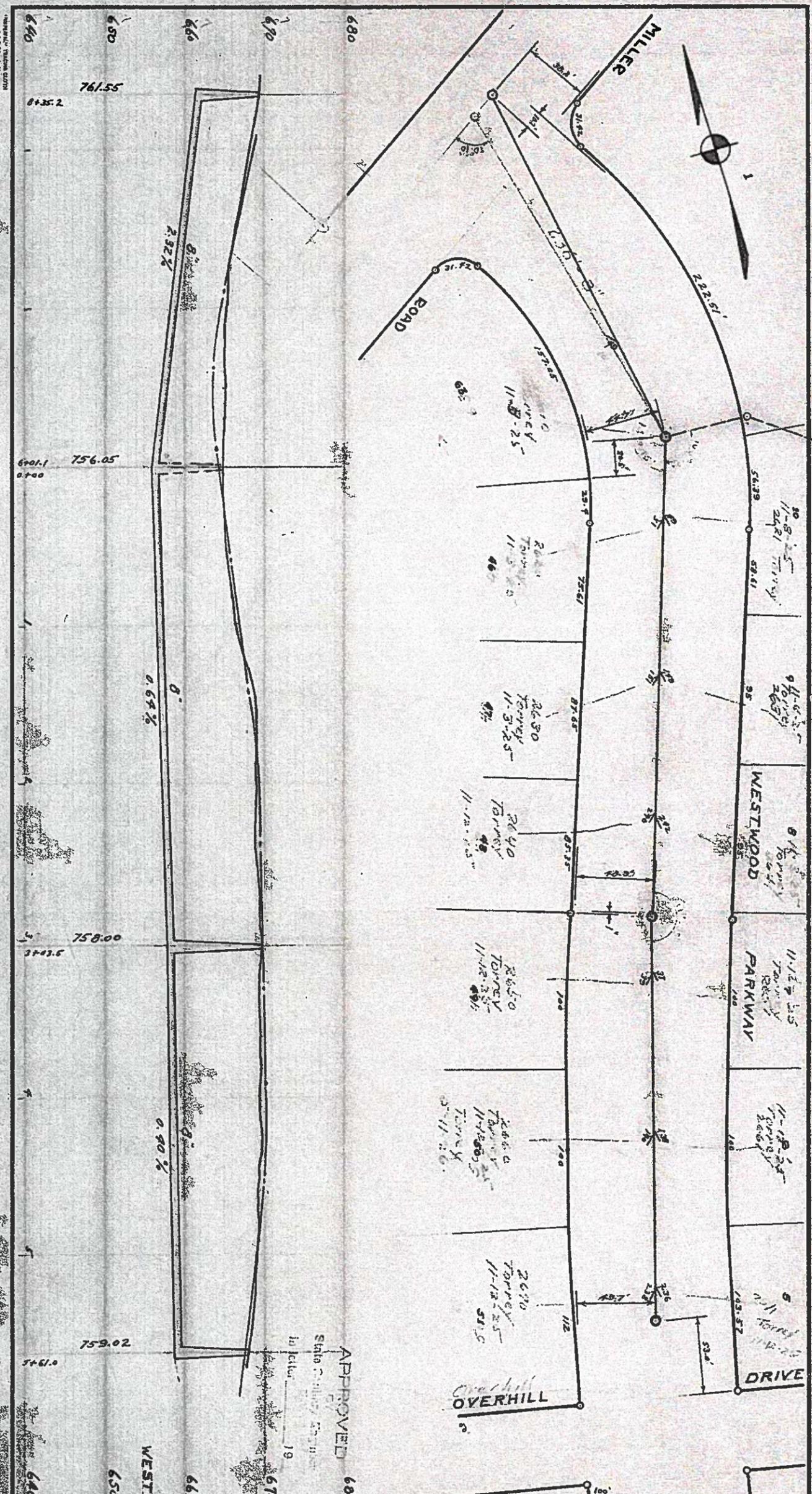
In letter 12 APR 1957

ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF FLINT SPECIFICATIONS

**CITY OF FLINT MICHIGAN**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

PLAN AND PROFILE OF  
**OVERHILL DR. SAN.**

CITY ENGINEER  
CITY PLANNING BOARD  
APPROVED BY THE PLANNING BOARD  
DATE: 2024  
WORK SHEET NO. 365  
DATE: 2024



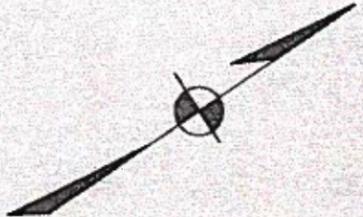
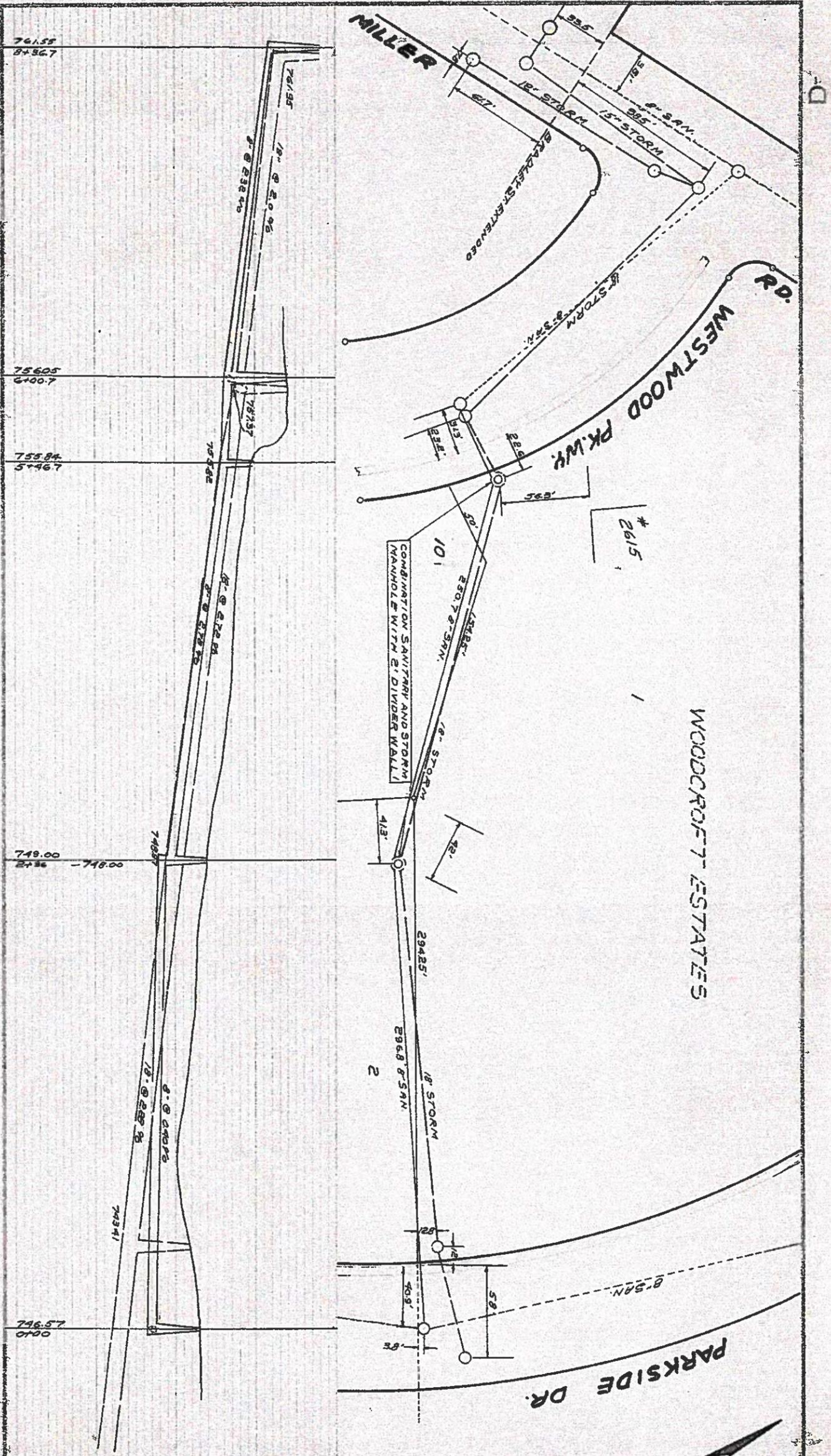
APPROVED  
State Engineer  
In letter 19

QUANTITIES

SIZE - INS.	8	10	12	15	18	20	24	30	36	42
LENGTH - EST.										
ACTUAL										
SYSTEM										
EXCAVATION	0-6	6-8	8-10	10-12	12-14	14-16	16-18			
CU. YDS. - EST.										
ACTUAL										
SYSTEM										
MANHOLES - EST.										
ACTUAL										
SYSTEM										

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED 19

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
CITY ENGINEER  
*L. W. L.*  
**PLAN AND PROFILE OF  
WESTWOOD PKWY SANITARY SEWER**  
From Miller Rd. to B's St.  
SCALE: HORIZONTAL 1"=80' VERTICAL 1"=10'  
DRAWN BY L. W. L. O.H.K. BY  
APPROVED BY THE COMMON COUNCIL, CITY OF FLINT  
DATE 6-25-25  
DATE 6-25-25  
WORK DONE BY 10-10-25 BOOK 366 PAGE 16, 17  
SHEET 10 OF 13



**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

DIRECTOR  
 PUBLIC WORKS  
 CITY ENGINEER

CITY MANAGER  
 CITY CLERK

**PLAN AND PROFILE OF  
 ACROSS LOTS SAN SEWER  
 PARKSIDE DR - WESTWOOD PKWY**

SCALE: HORIZONTAL 1" = 50'  
 VERTICAL 1" = 10'

DATE: 3/58  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY THE CITY COMMISSION

DATE: 3/58  
 APPROVED BY THE PLANNING BOARD

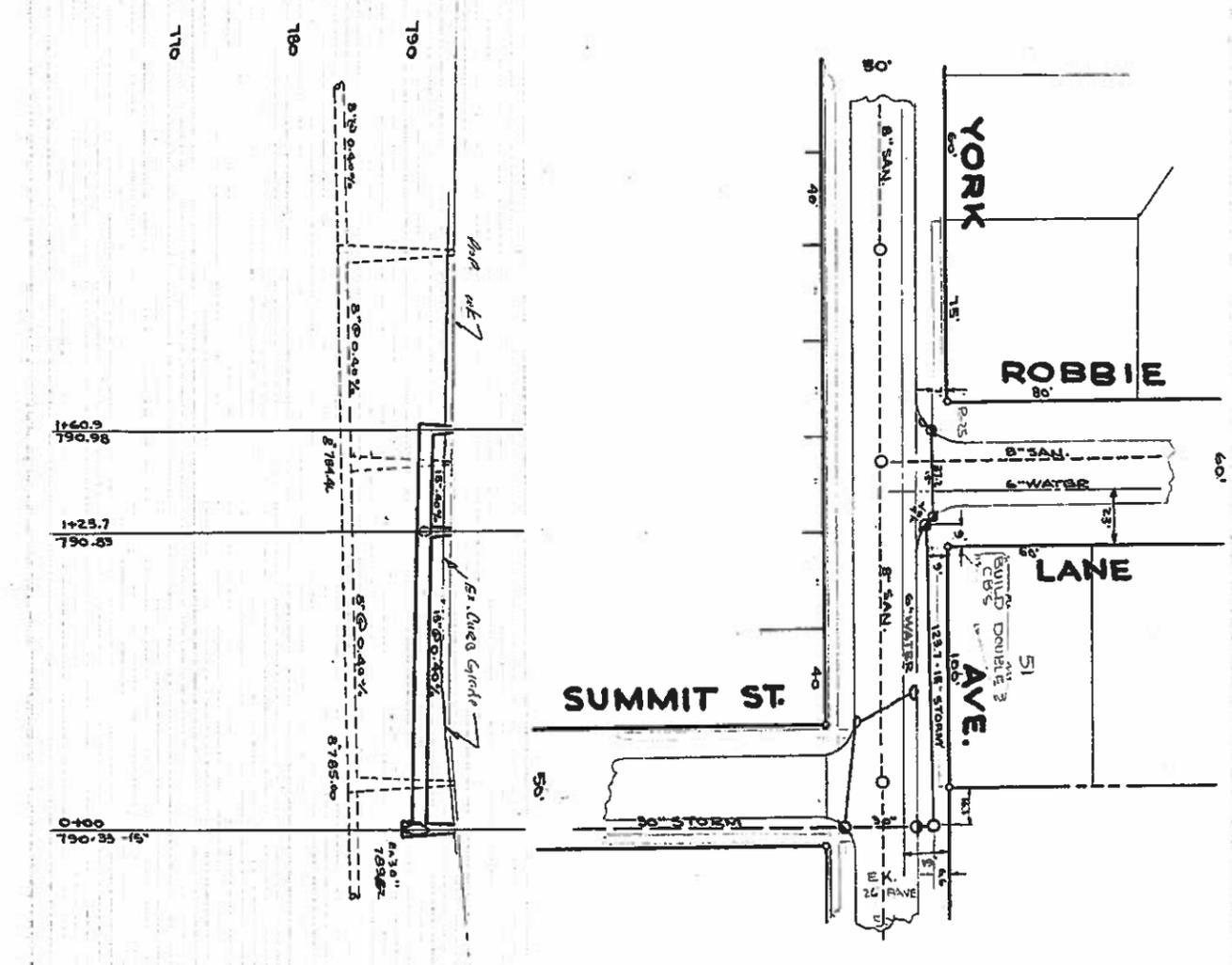
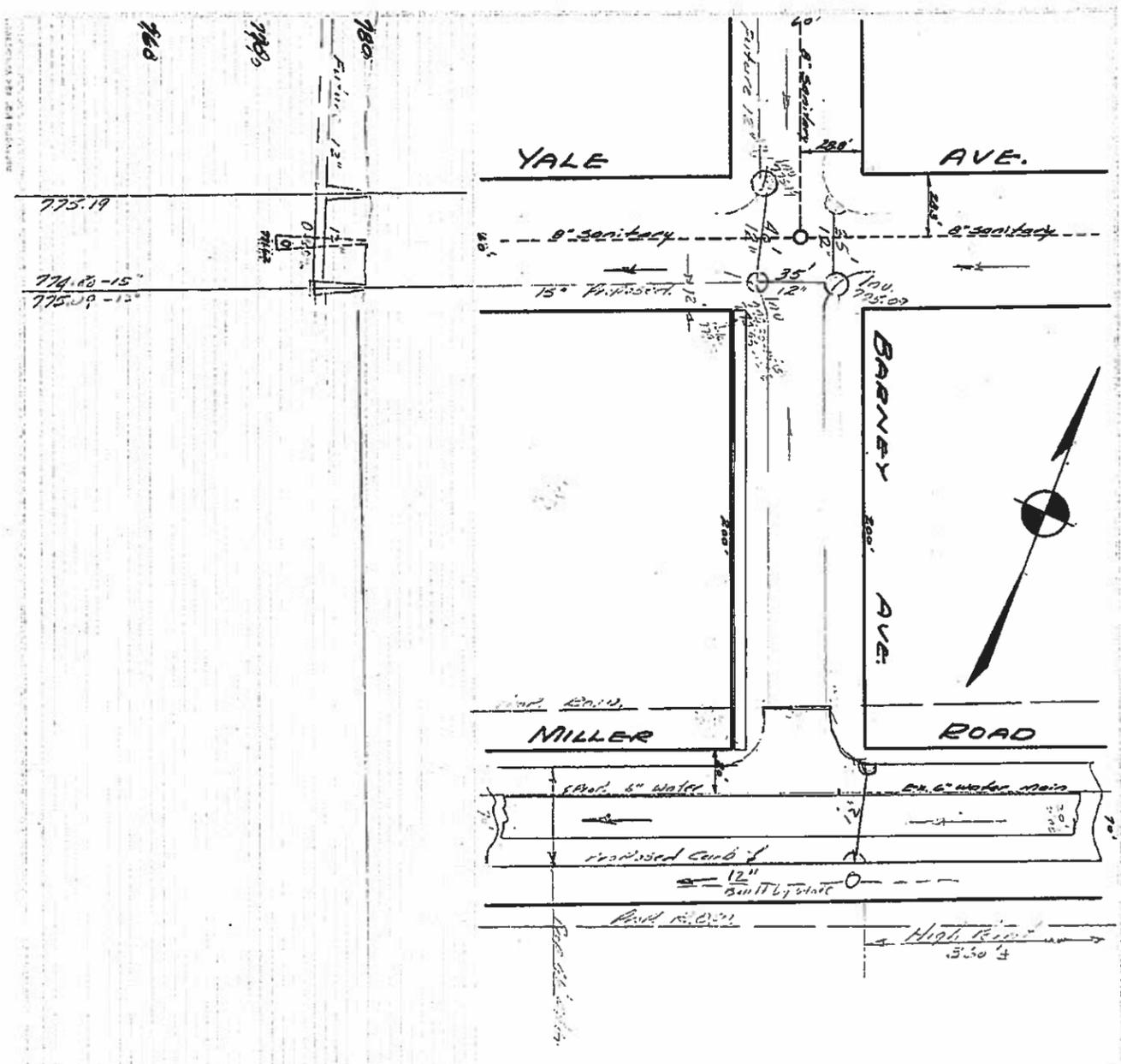
WORK BOOK NO. 365  
 SHEET 9 OF 13

D-2276

31-2 000 EAST CO. 110101 11 11 11

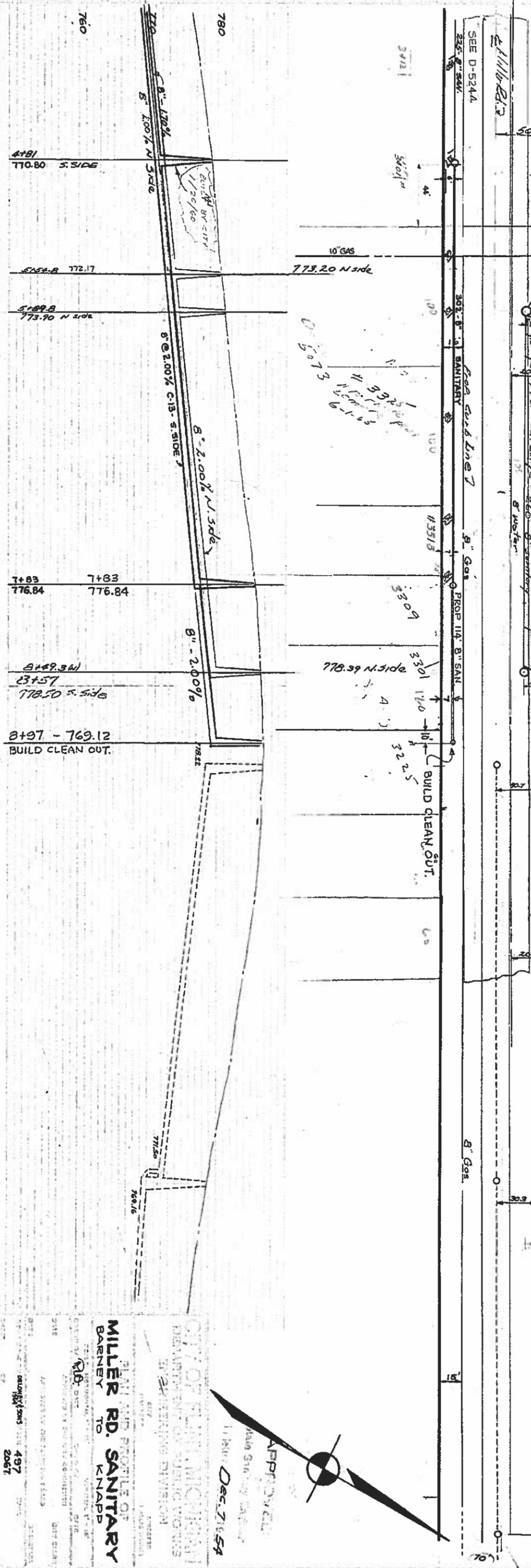
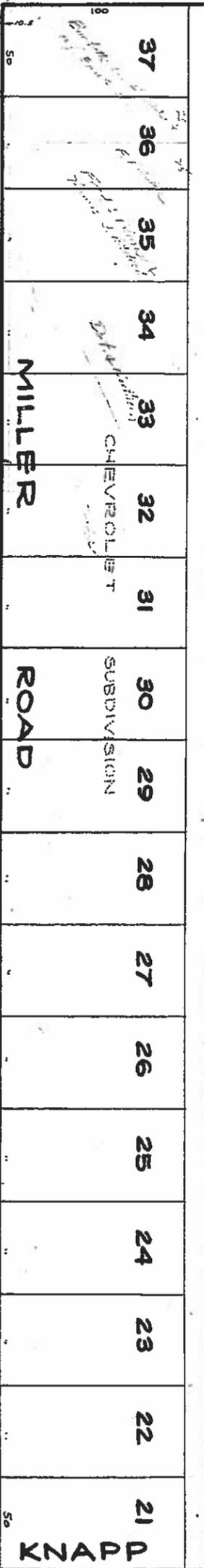
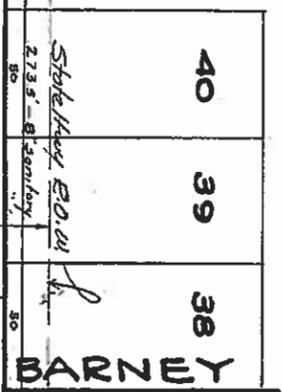


D-534



CITY OF NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION  
 STREET  
 BARNEY AVENUE, YORK AVENUE, STORM  
 YALE TO MILLER SUMMIT - ROBBIE  
 1/9/51  
 2029 37  
 D-5341

6335



3401  
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3209  
3210  
3211  
3212

APPROVED  
 State St. City Engineer  
 Dec 7 1954

DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

PLAN AND PROFILE OF  
 MILLER RD. SANITARY  
 BARNEY TO  
 KNAPP

497  
 2067

D-5339

D-5244

See 3380  
D-3380, 190  
5th March 1916  
City

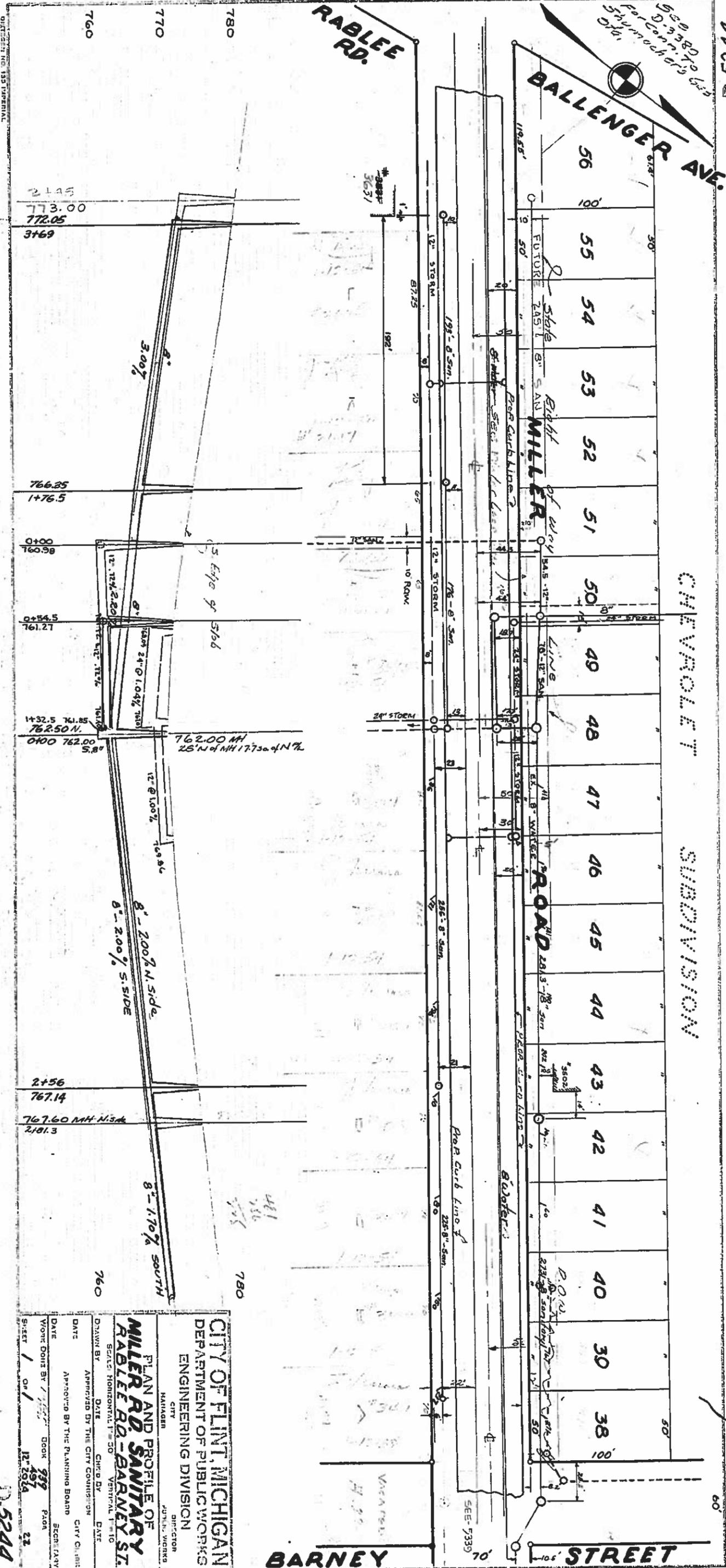


BALLENGER AVE.

RABLEE RD.

CHEVROLET

SUBDIVISION



**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

**PLAN AND PROFILE OF  
 MILLER RD. SANITARY  
 RABLEE RD. - BARNEY ST.**

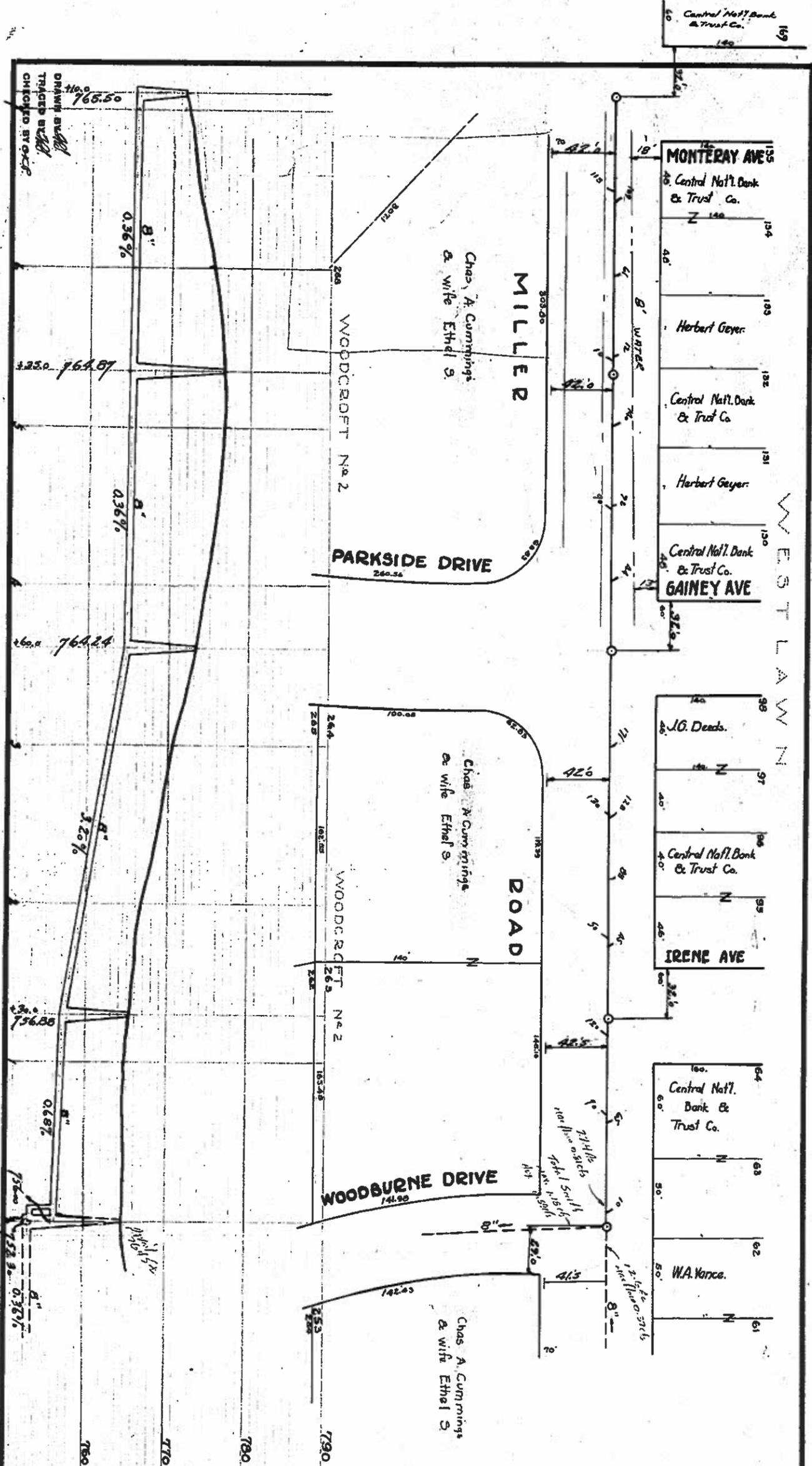
SCALE HORIZONTAL 1"=50' VERTICAL 1"=10'

DRAWN BY \_\_\_\_\_ DATE \_\_\_\_\_ CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY THE CITY COMMISSIONER \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY THE PLANNING BOARD \_\_\_\_\_ DATE \_\_\_\_\_

WORK DONE BY \_\_\_\_\_ GOOR 989 P.A.M. SECRETARY  
 SHEET 1 OF 1 12-20-16 22

D-5244

D-1670



**MILLER ROAD  
SANITARY DISTRICT**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
DIVISION OF SEWERAGE  
CITY ENGINEER

**PLAN AND PROFILE**  
**MILLER ROAD SANITARY SEWER**  
**MONTEREY AVE. TO WOODBURNE DR.**

SCALES: HORIZONTAL, 1"=60' VERTICAL, 1"=10'  
SUBMITTED: *[Signature]* APPROVED: *[Signature]*  
DESIGNED BY: *[Signature]* CHECKED BY: *[Signature]*  
APPROVED: *[Signature]* 1923  
BUILT BY: City of Flint DATE: 1923  
SHEET 4 OF 4 BOOK 343 PAGE 63

D-1670

Central Nat'l. Bank & Trust Co.  
150

MONTEREY AVE

Central Nat'l. Bank & Trust Co.  
Z 140

Herbert Geyer

Central Nat'l. Bank & Trust Co.

Herbert Geyer

Central Nat'l. Bank & Trust Co.

GAINNEY AVE

J.G. Deeds

Central Nat'l. Bank & Trust Co.

IRENE AVE

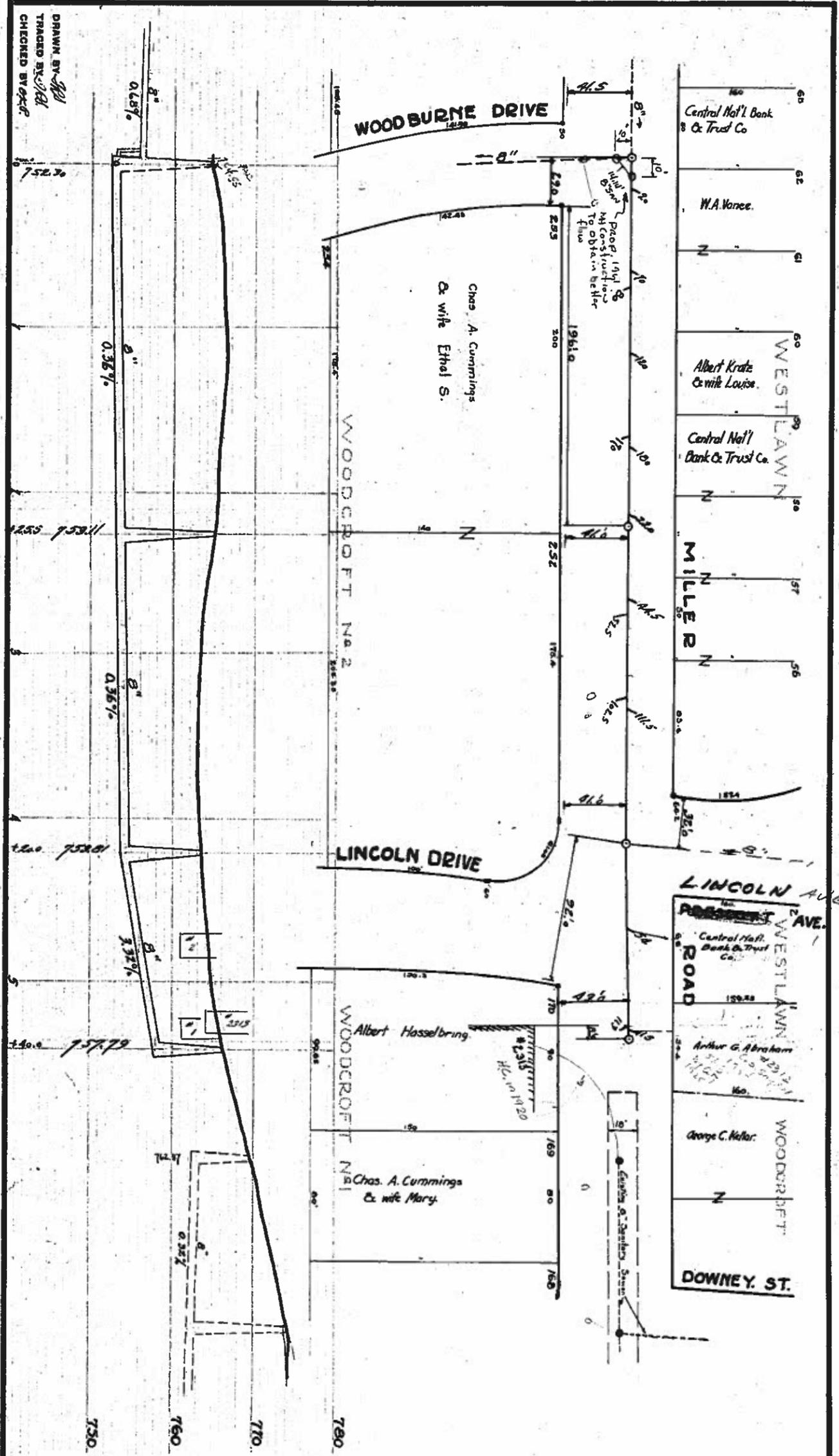
Central Nat'l. Bank & Trust Co.

W.A. Vance

WESTLAWN



APPROVED  
1923



DRAWN BY *[Signature]*  
 TRACED BY *[Signature]*  
 CHECKED BY *[Signature]*

**MILLER ROAD  
 SANITARY DISTRICT**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 CITY ENGINEER

**PLAN AND PROFILE**  
**MILLER ROAD SANITARY SEWER**  
 WOODBURNE TO LOT N4 & WESTLAWN SUB.

SCALE: HORIZONTAL, 1"=40' VERTICAL, 1"=10'

SUBMITTED: *[Signature]* APPROVED: *[Signature]*  
 REVISIONS: *[Signature]*

APPROVED: *[Signature]* DATE: 1928  
 CITY ENGINEER

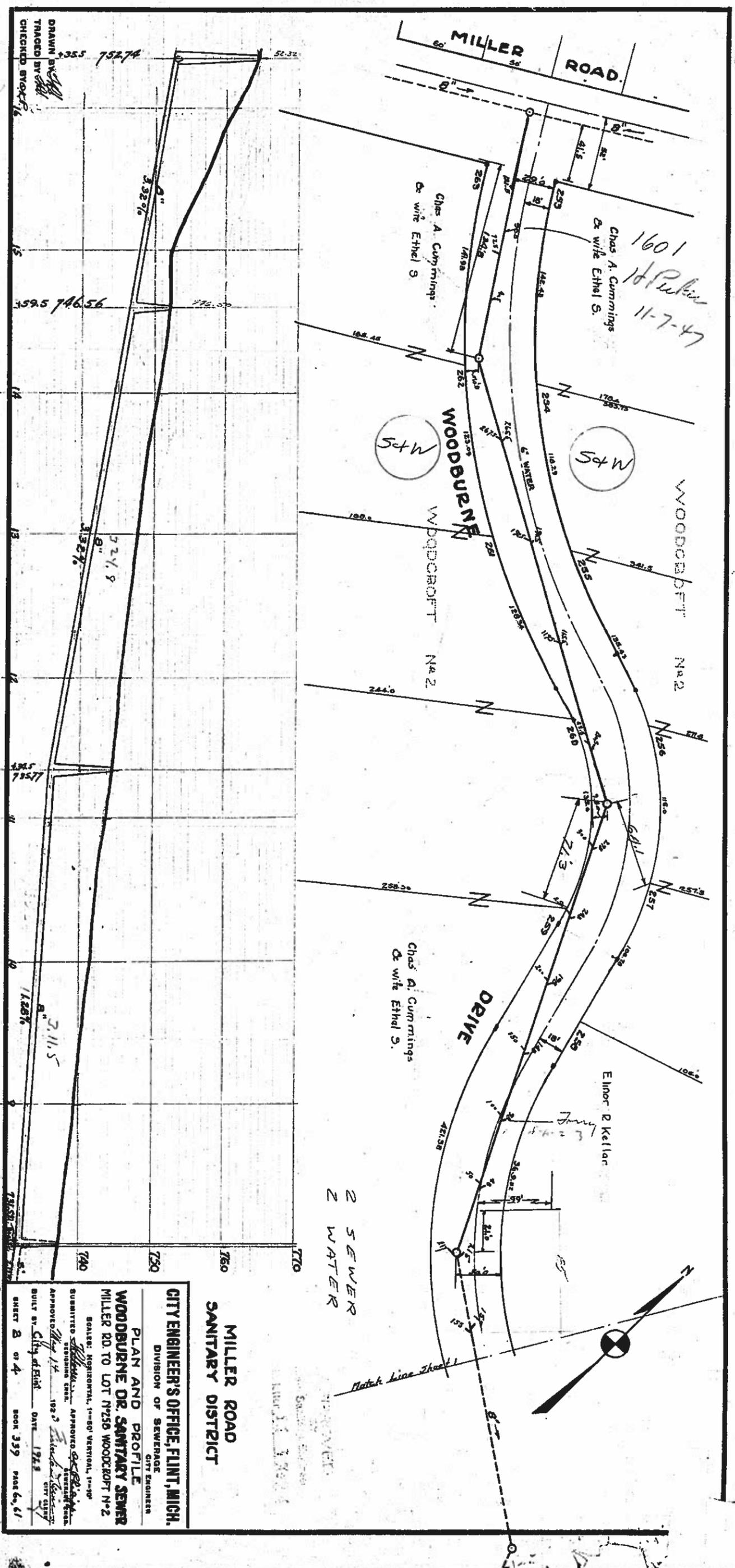
BUILT BY City of Flint

SHEET 3 OF 4 BOOK 339 PAGE 62

APPROVED



9991-D



DRAWN BY *[Signature]*  
 TRACED BY *[Signature]*  
 CHECKED BY *[Signature]*

**MILLER ROAD  
 SANITARY DISTRICT**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 CITY ENGINEER

**PLAN AND PROFILE  
 WOODBURN DR. SANITARY SEWER  
 MILLER RD. TO LOT N#25D WOODCROFT N#2**

SCALE: HORIZONTAL, 1"=50' VERTICAL, 1"=10'

SUBMITTED *[Signature]* APPROVED *[Signature]*  
 ENGINEERING DEPT. APPROVED *[Signature]*  
 CITY ENGINEER

APPROVED *[Signature]* DATE 1923  
 BUILT BY City of Flint DATE 1923  
 SHEET 2 of 4 BOOK 339 PAGE 60, 61

D-1668

2.000  
 3.21  
 52.32  
 170  
 57 x 572  
 165.75  
 162

1601  
 1st Pk. Plan  
 11-7-47

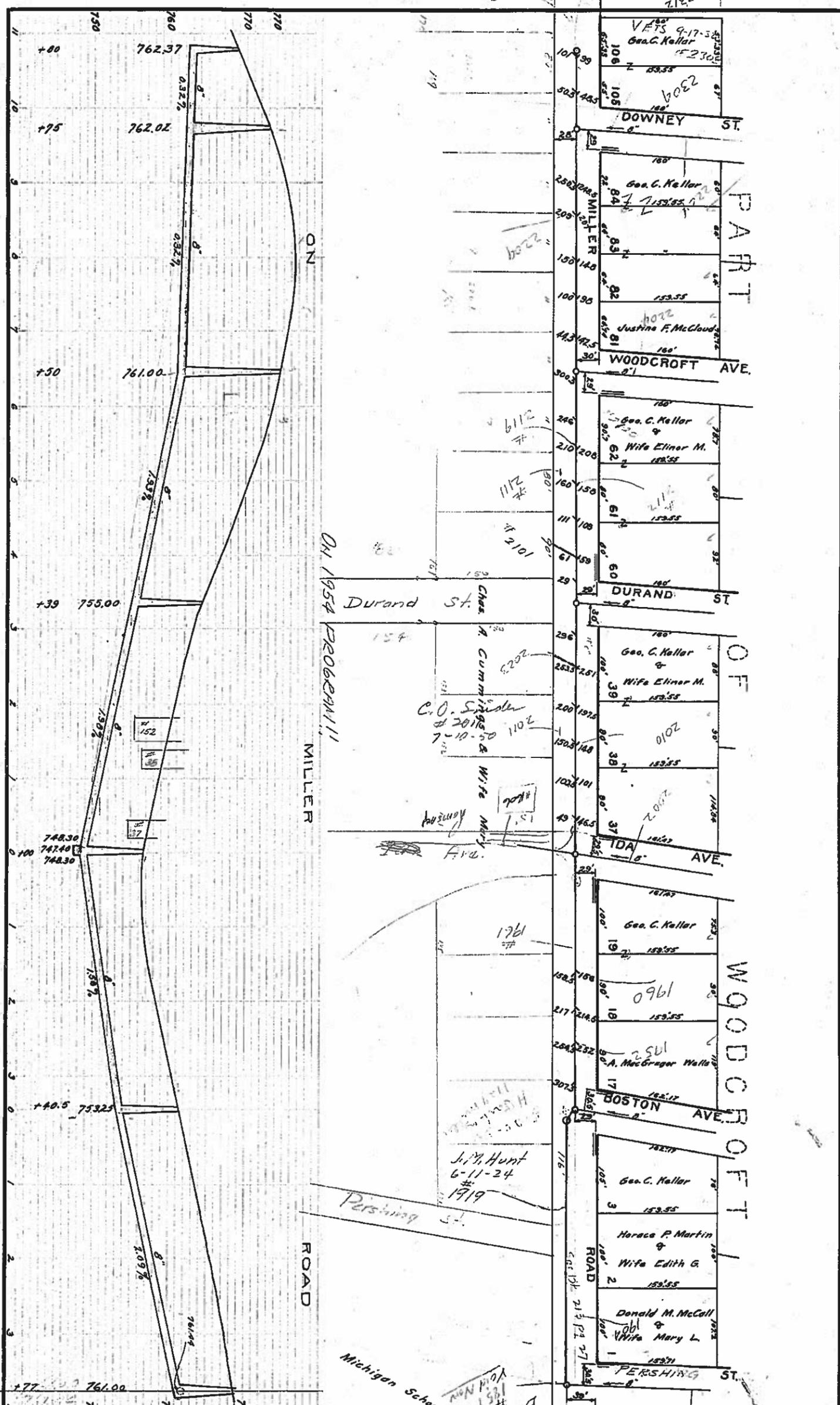
54W  
 WOODBURN

54W  
 WOODCROFT

DRIVE

2 SEWER  
 2 WATER

Match line Sheet 1



**KELLAR SEWERS**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**

Extra G. Sheardoff City Eng'r.

**PLAN AND PROFILE OF SANITARY SEWER ON MILLER ROAD**

Bismark St. to W. of Downey St.

Scale: Horizontal, 1"=100'; Vertical, 1"=10'

DRAWN BY C. E. GILL CHRW BY

Approved by the Common Council, City of Flint, Mich.

City Clerk.

DATE

BUILT BY CITY 1917 Book 213 Pages 26-30

Sheet 2 of 4 2036 D707

**KELLAR SEWERS**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**

Extra G. Sheardoff City Eng'r.

**PLAN AND PROFILE OF SANITARY SEWER ON MILLER ROAD**

Bismark St. to W. of Downey St.

Scale: Horizontal, 1"=100'; Vertical, 1"=10'

DRAWN BY C. E. GILL CHRW BY

Approved by the Common Council, City of Flint, Mich.

City Clerk.

DATE

BUILT BY CITY 1917 Book 213 Pages 26-30

Sheet 2 of 4 2036 D707

**ON 1954 PROGRAM!!!**

Lincoln Drive

1820 Miller

Michigan School for the Deaf

WOODCROFT

DURAND ST

TDA AVE

BOSTON AVE

PERSHING ST

DOWNEY ST

MILLER

WOODCROFT

DURAND ST

TDA AVE

BOSTON AVE

PERSHING ST

WOODCROFT

DURAND ST

TDA AVE

BOSTON AVE

PERSHING ST

WOODCROFT

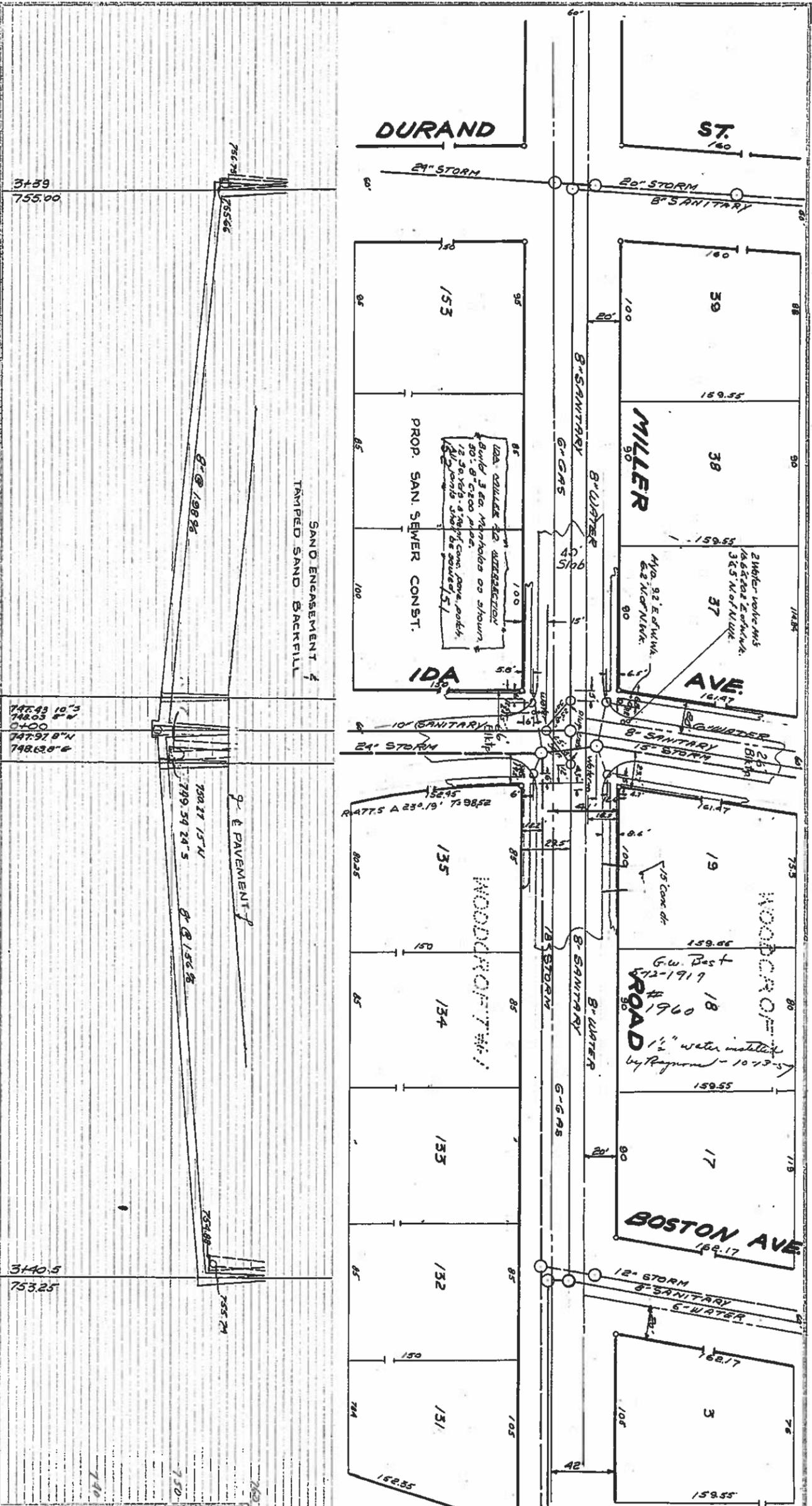
DURAND ST

TDA AVE

BOSTON AVE

PERSHING ST





**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

CITY MANAGER  
 PUBLIC WORKS DIRECTOR

**PLAN AND PROFILE OF  
 MILLER ROAD SANITARY  
 DURAND ST - BOSTON AVE**

SCALE HORIZONTAL 1" = 50'  
 SCALE VERTICAL 1" = 10'

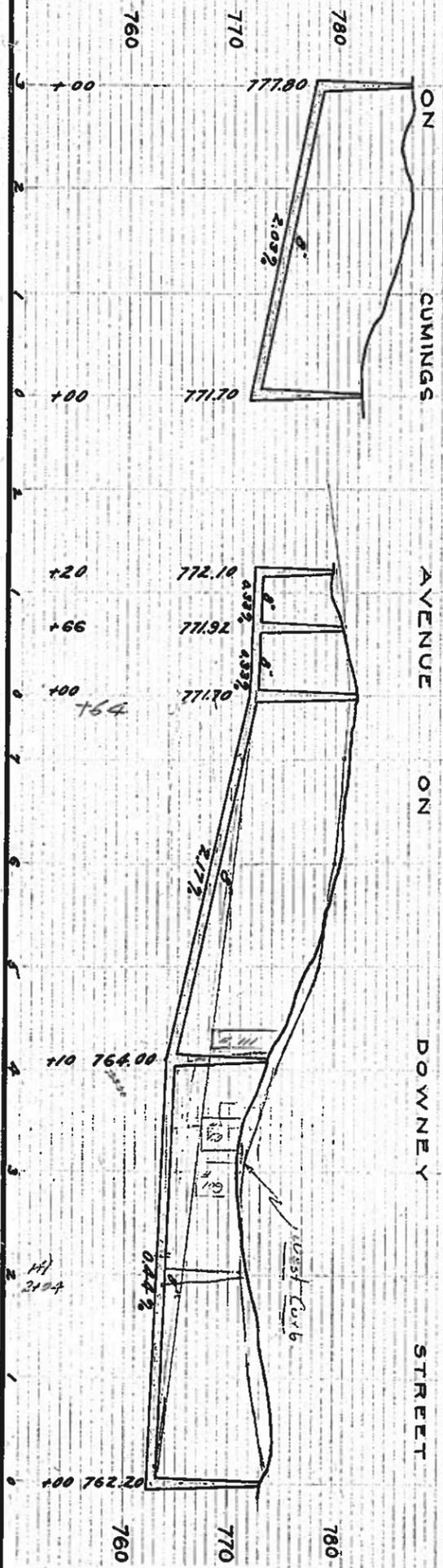
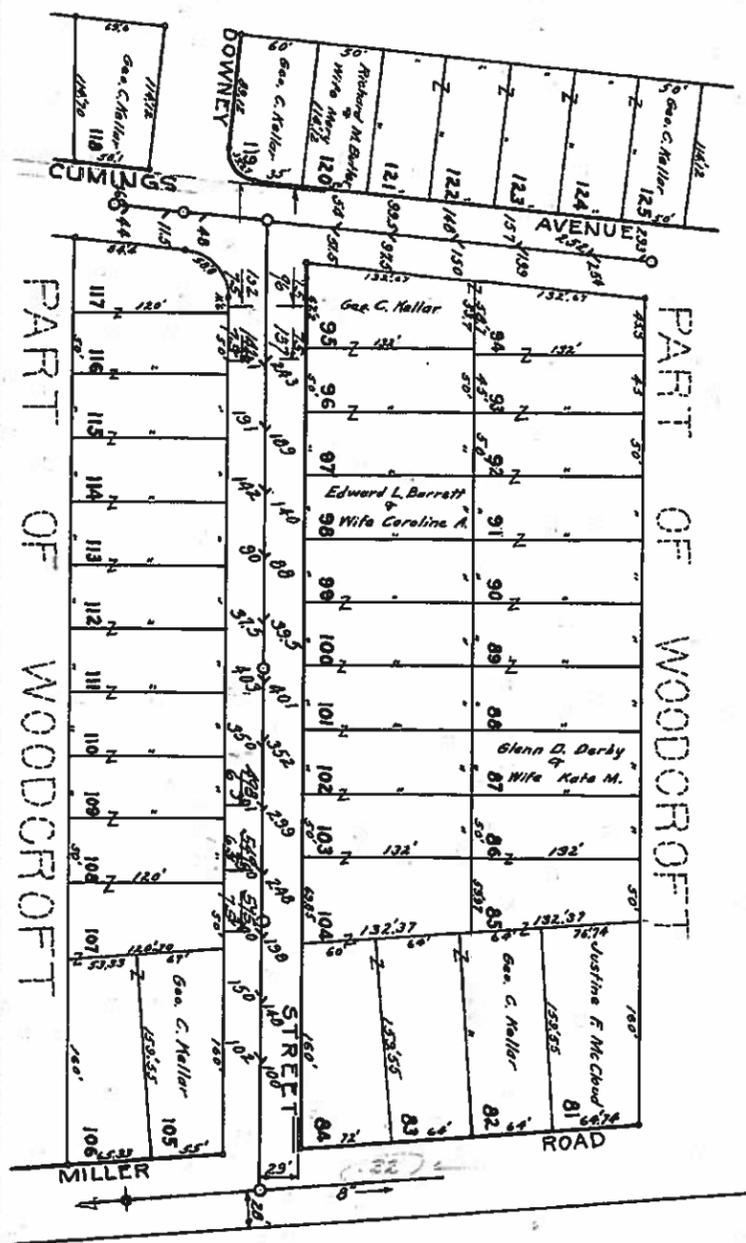
DATE 3/28/31  
 DRAWN BY S.R.  
 APPROVED BY THE CITY COMMISSION

DATE 3/28/31  
 APPROVED BY THE PLANNING BOARD

DATE 3/28/31  
 FORN CODE OF CITY 1917 CONN. 215

SHEET 26-30

D-7074



# KELLAR SEWERS

CITY ENGINEER'S OFFICE, FLINT, MICH.

Esra C. Shoecraft City Eng'r.

PLAN AND PROFILE OF SANITARY SEWER ON  
DOWNEY ST. CUMINGS AVE

Miller - Cummings Woodcroft - Downey

Scale: Horizontal, 1" = 100'. Vertical, 1" = 10'.

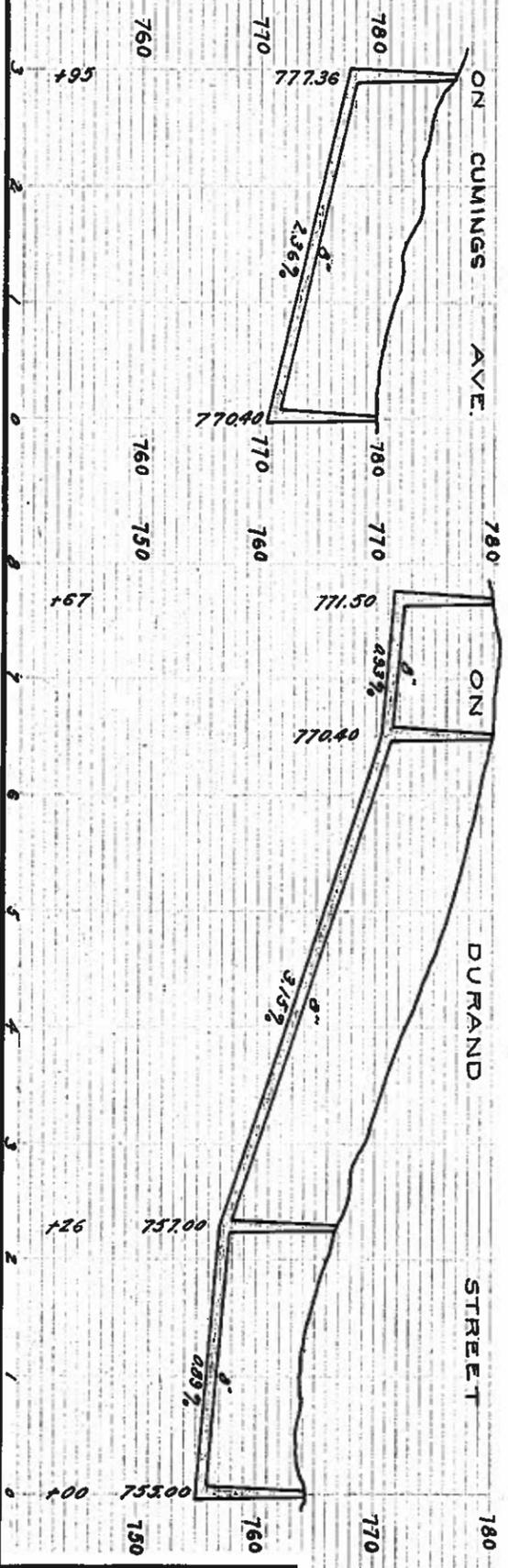
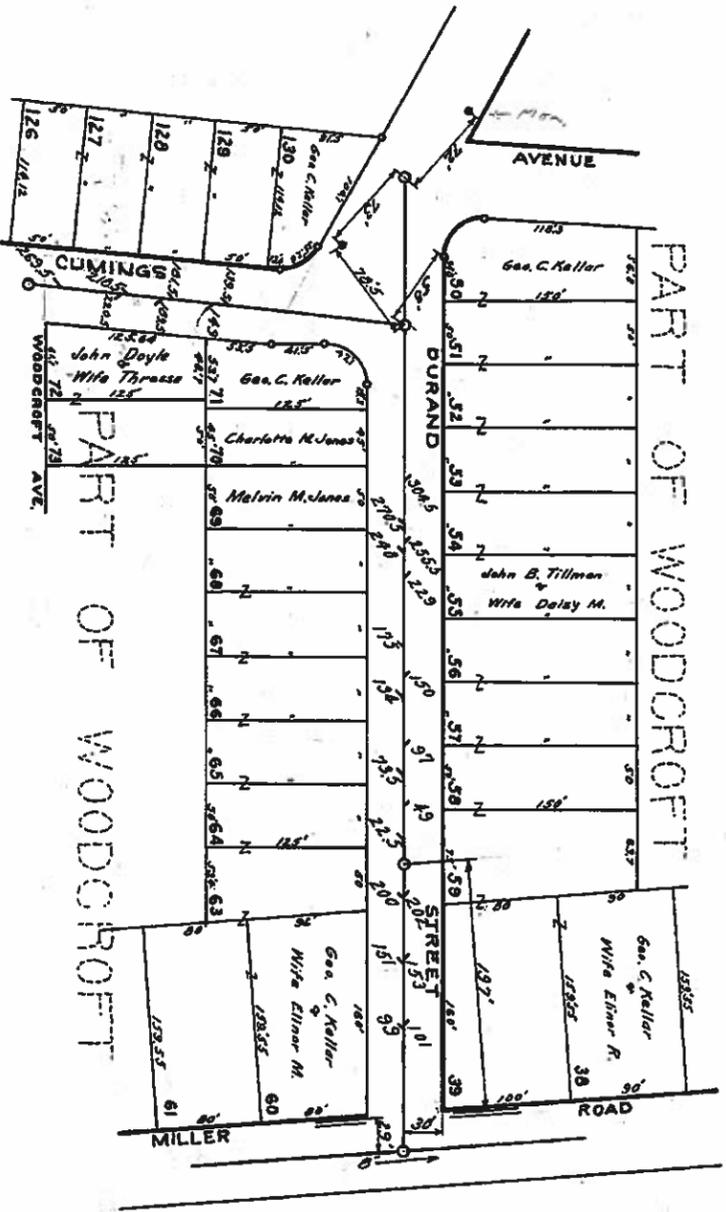
DRAWN BY C. E. GILL CHK'D BY

Approved by the Common Council, City of Flint, Mich.

DATE

BUILT BY CITY 1917 Book 213 Page 31-33

Sheet 3 of 4 203C D706



# KELLAR SEWERS

CITY ENGINEER'S OFFICE, FLINT, MICH.

Esra C. Shagereff City Eng'r.

PLAN AND PROFILE OF SANITARY SEWER ON DURAND ST. CUMINGS AVE.

Miller Rd. - Cumings Durand - Woodcroft

Scale: Horizontal, 1" = 100'; Vertical, 1" = 10'

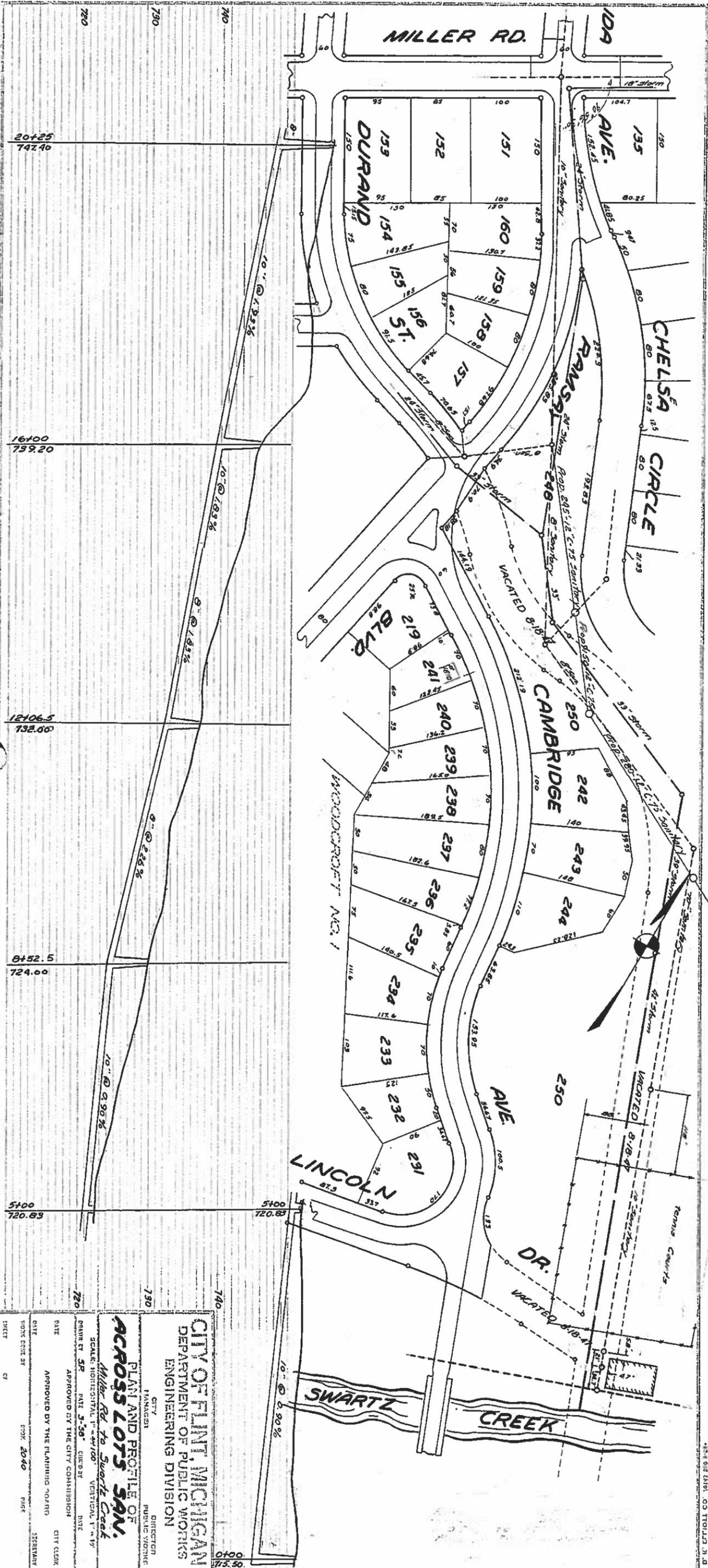
DRAWN BY C. E. GILL CHECKED BY

DATE \_\_\_\_\_ City Clerk.

BUILT BY CITY 1917 Book 213 Page 225/26

Sheet 4 of 4 D709

Approved by the Common Council, City of Flint.



D-706

**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

CITY MANAGER  
 PUBLIC WORKS DIRECTOR

**PLAN AND PROFILE OF  
 ACROSS LOTS 5AN.**  
 Miller Rd to Swartz Creek

SCALE: HORIZONTAL 1" = 40' 100' VERTICAL 1" = 10'

PRINTED BY SP DATE 3-56" CURB BY DATE

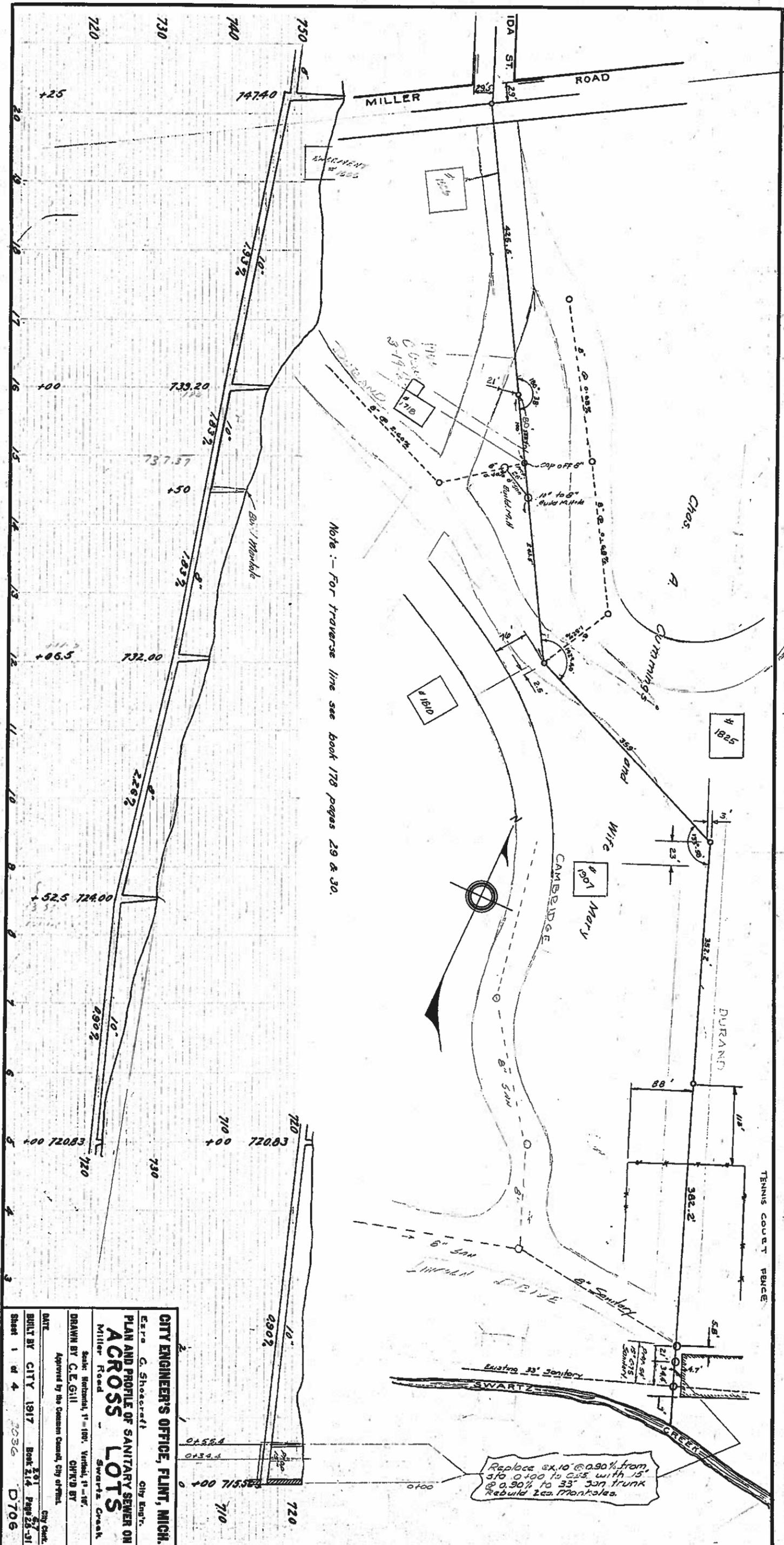
APPROVED BY THE CITY COMMISSION DATE

APPROVED BY THE PLANNING BOARD DATE

WORK DESIGNED BY BOOK 2040 PLAT

SHEET NO. 1

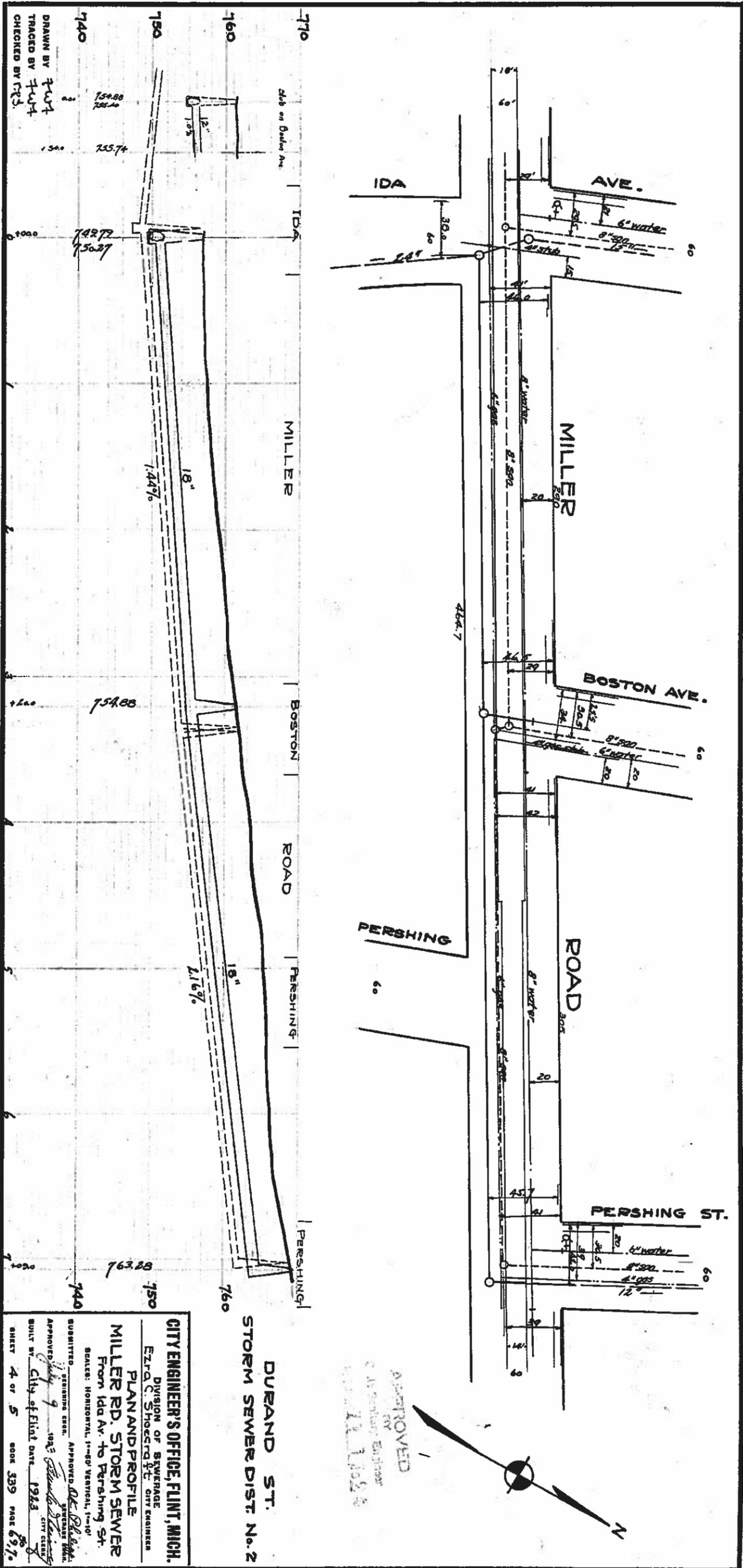
15-4-68 CHM. CO. TROTTLE, J. D.



Note: - For traverse line see book 178 pages 29 & 30.

Replace 2x10" @ 0.90% from 370' 0" to 255' with 15' @ 0.90% to 33" 30" trunk Rebuild 2 cas. Manholes.

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 Ezra G. Shobercraft City Eng'r.  
**PLAN AND PROFILE OF SANITARY SEWER ON ACROSS LOTS MILLER ROAD SWARTZ CREEK**  
 Scale: Horizontal, 1" = 100'; Vertical, 1" = 10'  
 DRAWN BY C.E. GILL  
 Approved by the Common Council, City of Flint.  
 DATE: 3-1-17  
 BUILT BY CITY 1917 Book 214 Page 25-31  
 Sheet 1 of 4 2036 D706



DRAWN BY *FWJ*  
 TRACED BY *FWJ*  
 CHECKED BY *FEJ*

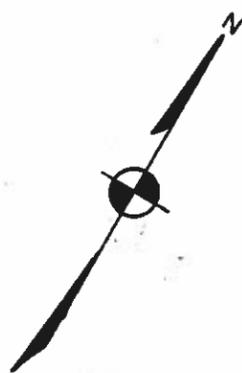
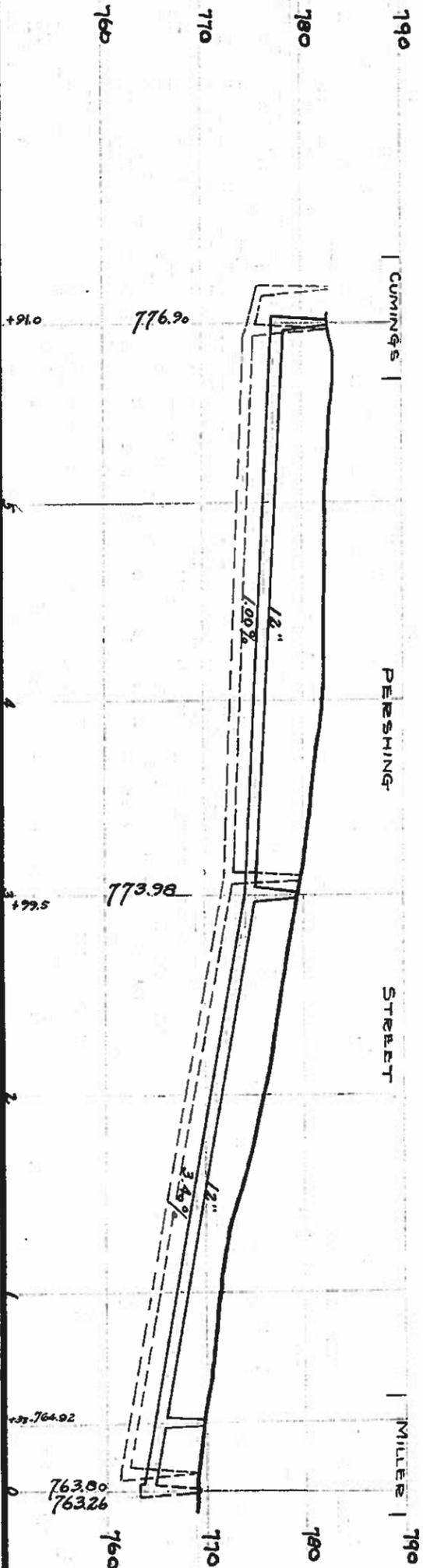
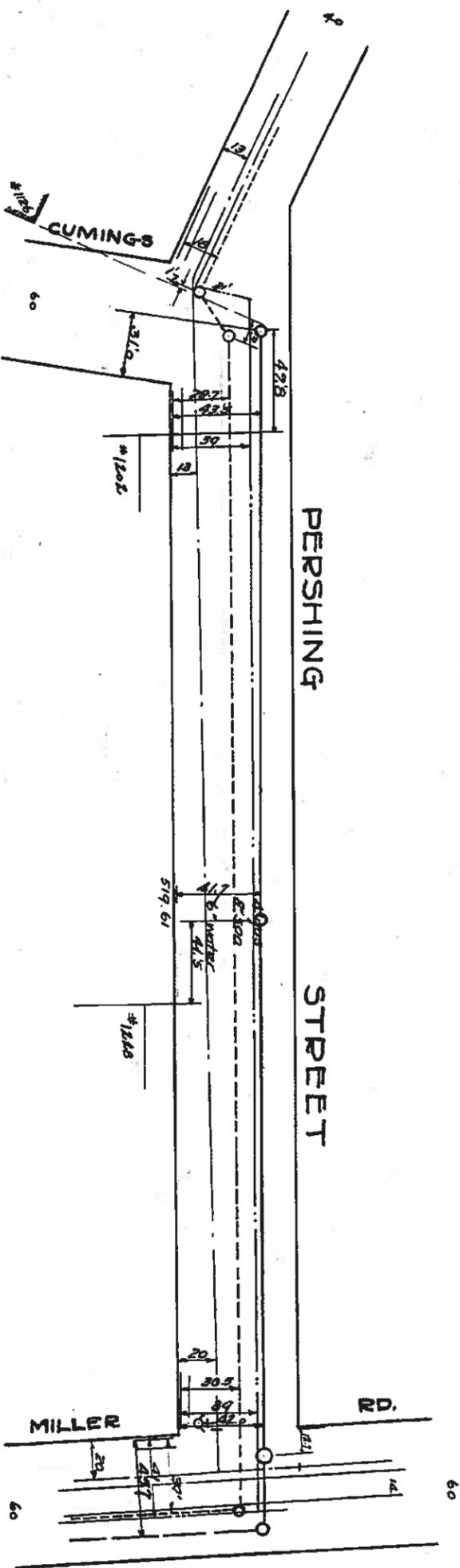
**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 Ezra C. Schoenfeldt, CITY ENGINEER

**PLAN AND PROFILE**  
**MILLER RD. STORM SEWER**  
 From Ida Av. to Pershing St.  
 SCALE: HORIZONTAL, 1"=50' VERTICAL, 1"=10'

SUBMITTED - SEWERING DEPT. APPROVED *Dr. R. L. ...*  
 APPROVED *July 9 1923*  
 BUILT BY *City of Flint* DATE *1923*  
 SHEET *4* OF *5* BOOK *339* PAGE *697*.

APPROVED  
 BY  
*11.11.1923*





APPROVED  
BY  
11/10/23

DURAND ST.  
STORM SEWER DIST. No. 2

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 E. W. C. SHOECROFT, CITY ENGINEER

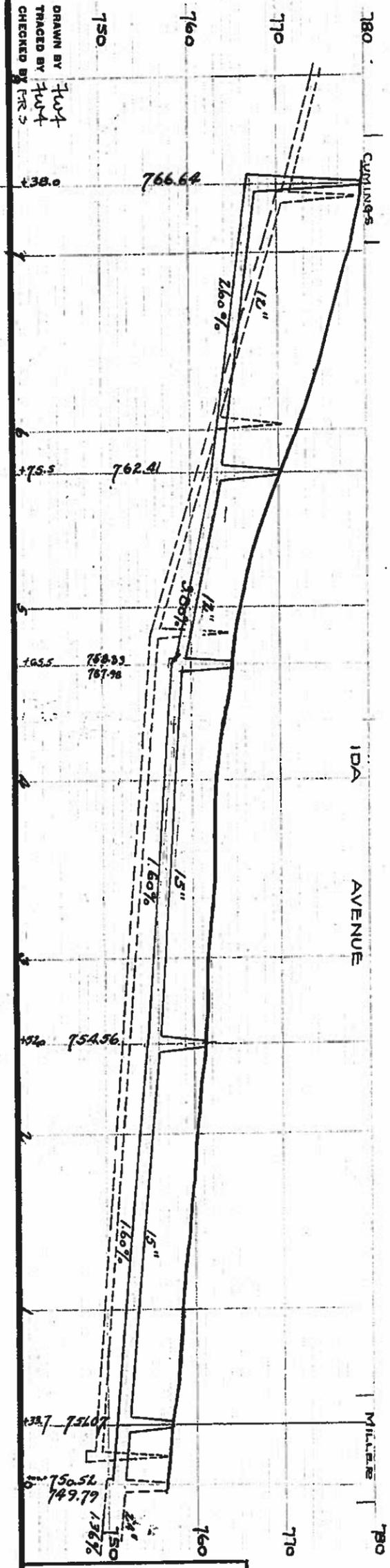
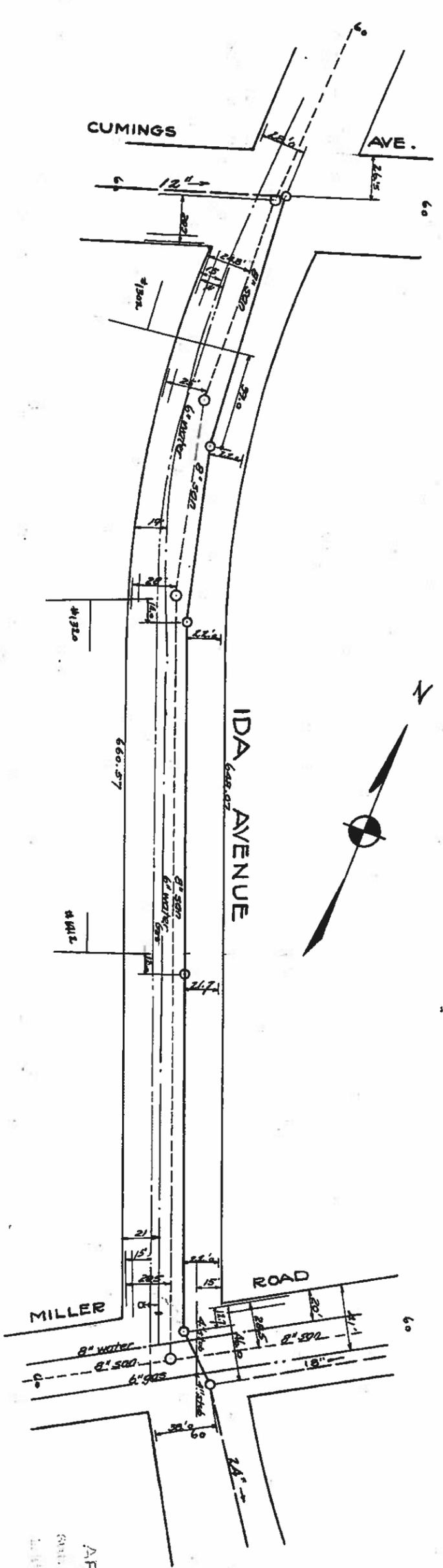
**PLAN AND PROFILE**  
 PERSHING ST. STORM SEWER  
 From Miller Rd. to Cuming's Av.  
 SCALE: HORIZONTAL, 1"=80' VERTICAL, 1"=10'

SUBMITTED: DESIGNING ENGR. APPROVED: *W. C. Shoecraft*  
 APPROVED: *W. C. Shoecraft* SUPERVISOR  
 BUILT BY: City of Flint, Mich. DATE: 1923  
 SHEET 5 OF 5 BOOK 539 PAGE 49

D-1331

DRAWN BY *Just*  
 TRACED BY *Just*  
 CHECKED BY *EA*

D-



DRAWN BY *Just*  
 TRACED BY *Just*  
 CHECKED BY *FRS*

D-1328

DURAND ST.  
 STORM SEWER DIST. No 2

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 Ezra C. Shoop, CHIEF CITY ENGINEER

**PLAN AND PROFILE**  
**IDA AVE. STORM SEWER**  
 FROM Miller Rd. to Cummings Av.

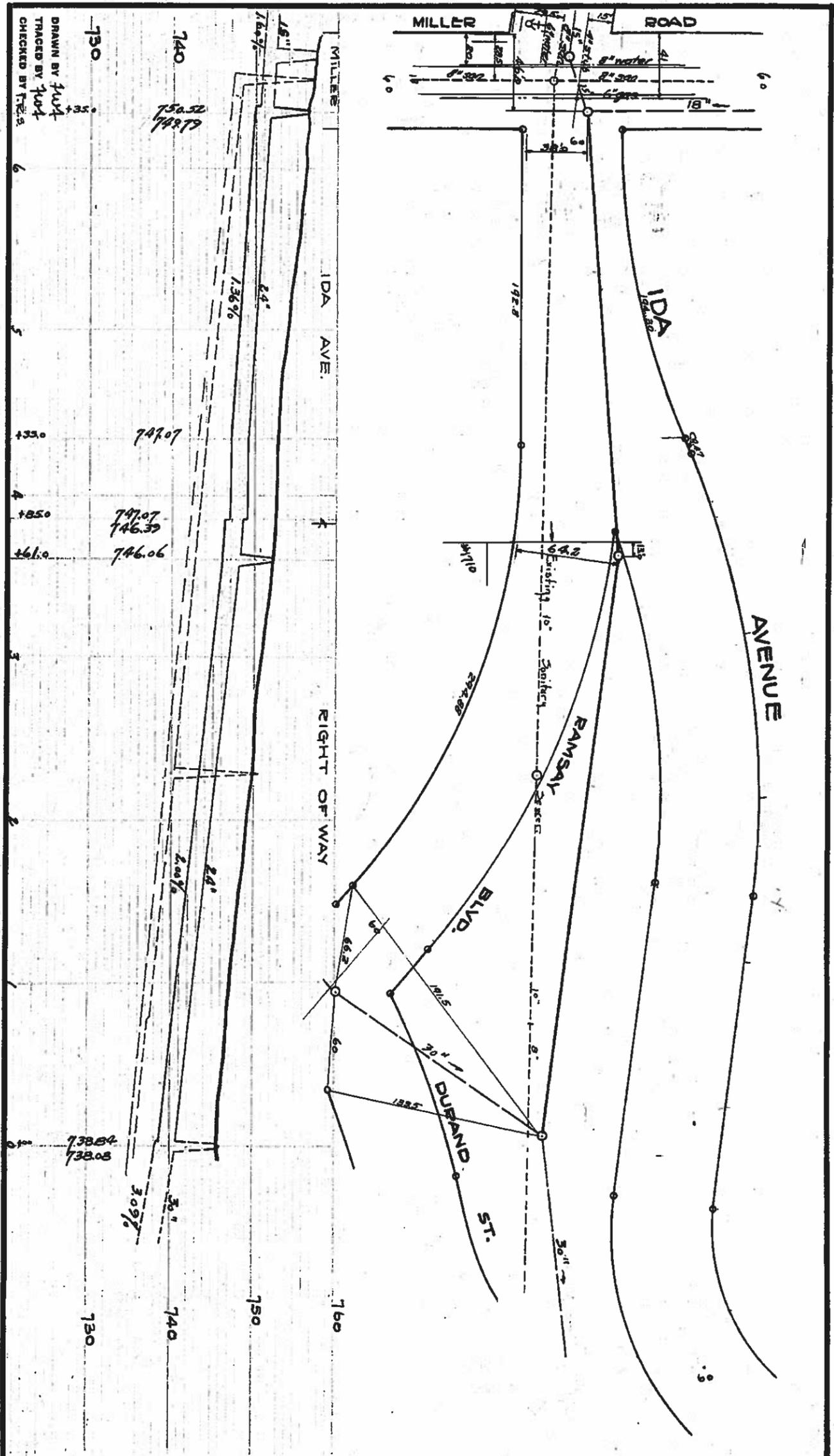
SCALE: HORIZONTAL, 1"=50' VERTICAL, 1"=10'

SUBMITTED: 10/23/28  
 APPROVED: *[Signature]*  
 DATE: 10/23/28

BUILT BY: City of Flint  
 SHEET 2 of 5

APPROVED  
 R. J. [Signature]  
 11 1 1928

D-D



DRAWN BY J.M.J.  
 TRACED BY J.M.J.  
 CHECKED BY T.E.S.

6  
5  
4  
3  
2  
1

730  
740  
750

**DURAND ST.  
 STORM SEWER DIST. N.2.**

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
 DIVISION OF SEWERAGE  
 E.Z. P. C. SHROEDER, CITY ENGINEER

**PLAN AND PROFILE**  
**IDA AVE. STORM SEWER**  
 From Miller Rd. to 670' South

SCALE: HORIZONTAL, 1"=80' VERTICAL, 1"=10'

SUBMITTED: [Signature]  
 APPROVED: [Signature]  
 CITY ENGINEER

APPROVED: [Signature]  
 CITY ENGINEER

BUILT: City of Flint, DATE: 1925

SHEET 1 of 5 BOOK 359 PAGE 6576

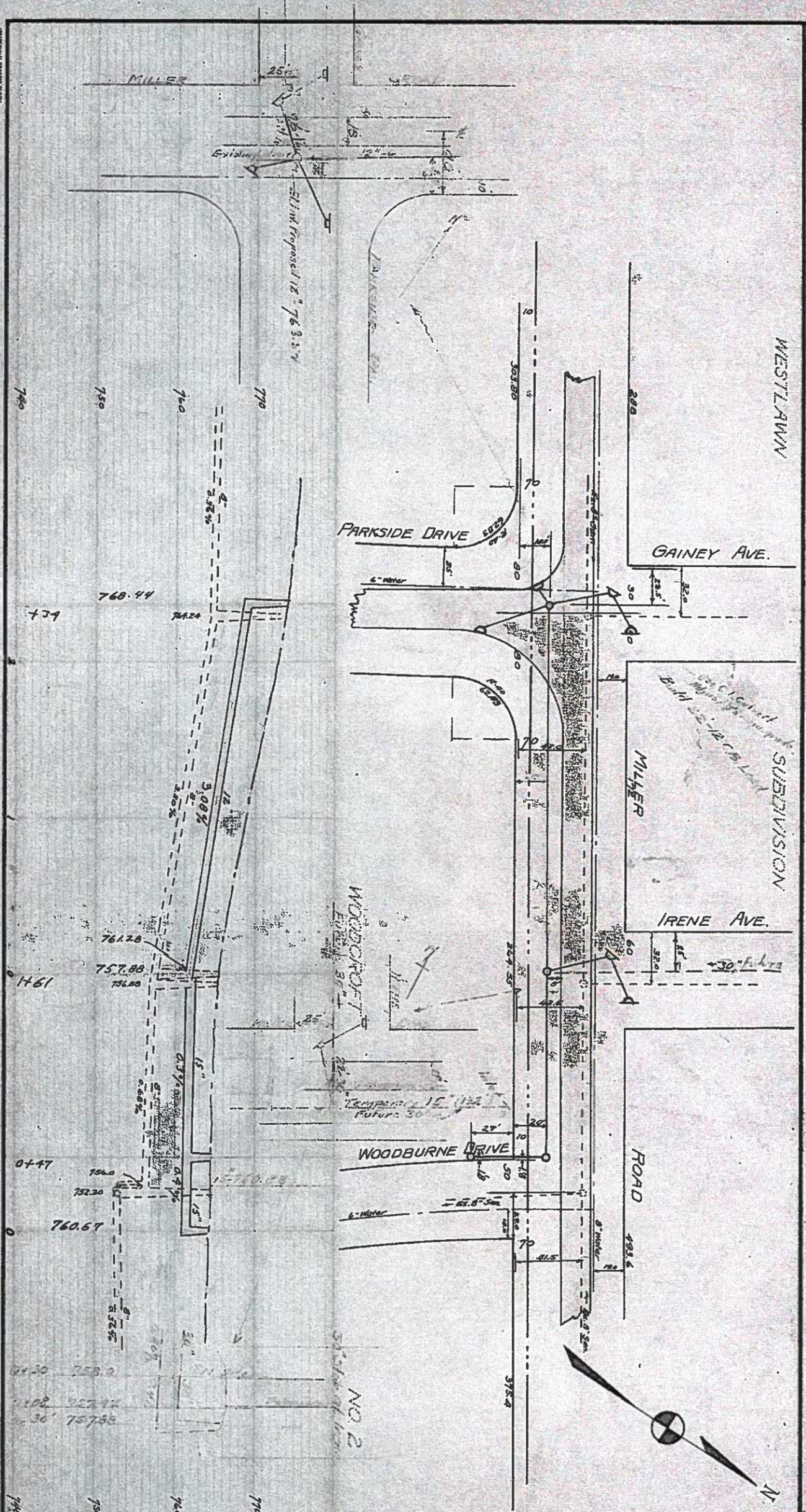
D-1327

APPROVED  
 [Signature]  
 1925









		QUANTITIES									
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SIZE - INS.											
LENGTH - EST.											
ACTUAL											
SYSTEM											
EXCAVATION	0-6	6-8	8-10	10-12	12-14	14-16	16-18				
CU. YDS. - EST.											
ACTUAL											
SYSTEM											
MANHOLES - EST.											
ACTUAL											
SYSTEM											

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
H.C. MECLURE CITY ENGINEER

**PLAN AND PROFILE OF  
MILLER ROAD STORM SEWER  
FROM IRENE AVE. TO GAINY AVE.**

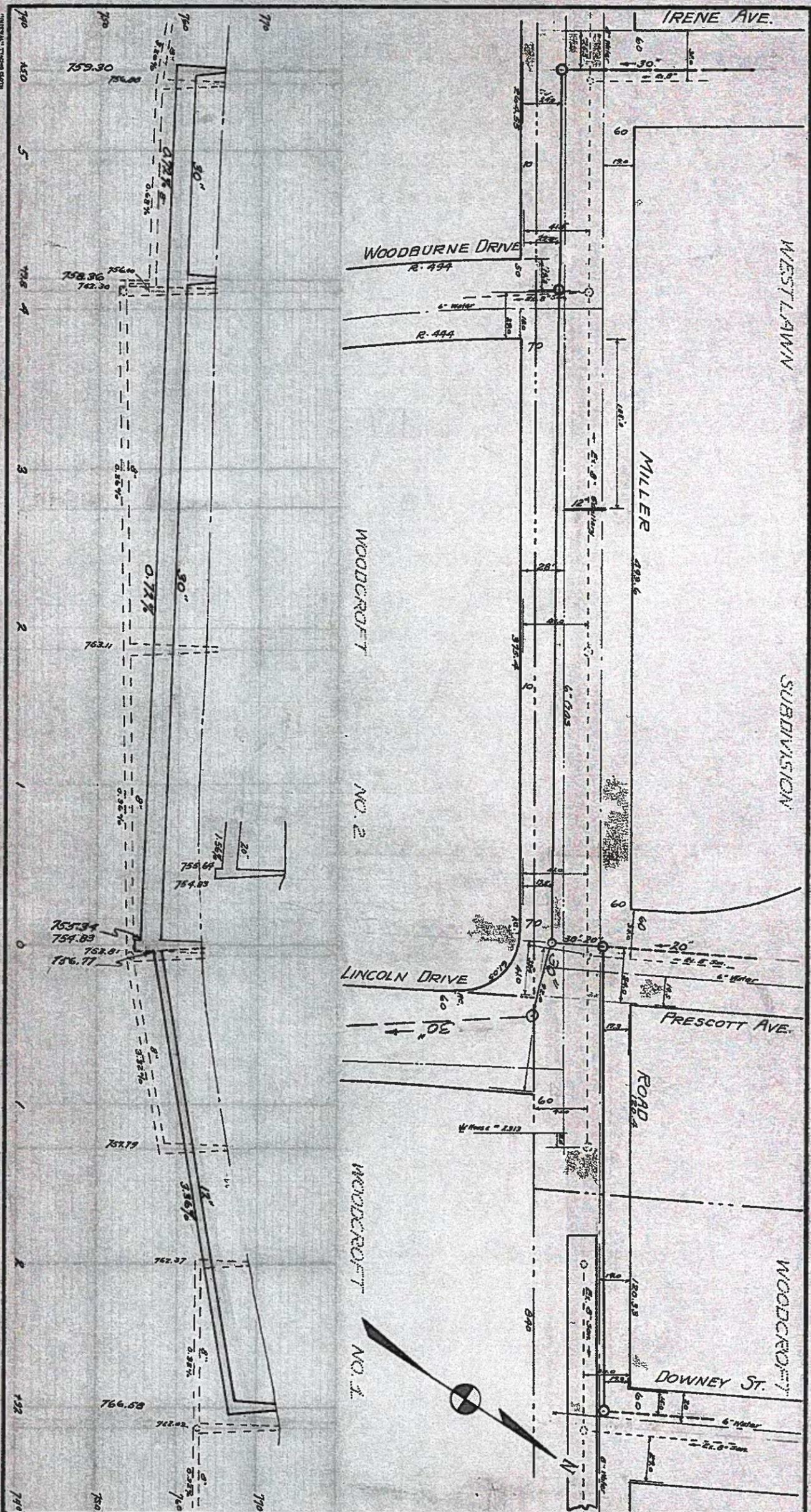
SCALE: HORIZONTAL 1" = 50' VERTICAL 1" = 10'

DRAWN BY C.R.N. CHK'D BY

APPROVED BY THE COMMON COUNCIL, CITY OF FLINT,  
DATE \_\_\_\_\_

APPROVED BY THE PLANNING BOARD, CITY OF FLINT,  
DATE \_\_\_\_\_

WORK DONE BY CITY OF FLINT BOOK# 69 PAGE# 69  
SHEET 7 OF 8



		QUANTITIES									
SIZE - INS.	LENGTH - EST.	8	10	12	15	18	20	24	30	36	42
ACTUAL	SYSTEM										
EXCAVATION	CU. YDS. - EST.	0-6	6-8	8-10	10-12	12-14	14-16	16-18			
ACTUAL	SYSTEM										
MANHOLES - EST.	ACTUAL										
SYSTEM											

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
**H.C. McCLURE** CITY ENGINEER

**PLAN AND PROFILE OF**  
**MILLER ROAD STORM SEWER**  
**FROM IRENE AVE. TO DOWNEY ST.**

SCALE: HORIZONTAL 1" = 50' VERTICAL 1" = 10'

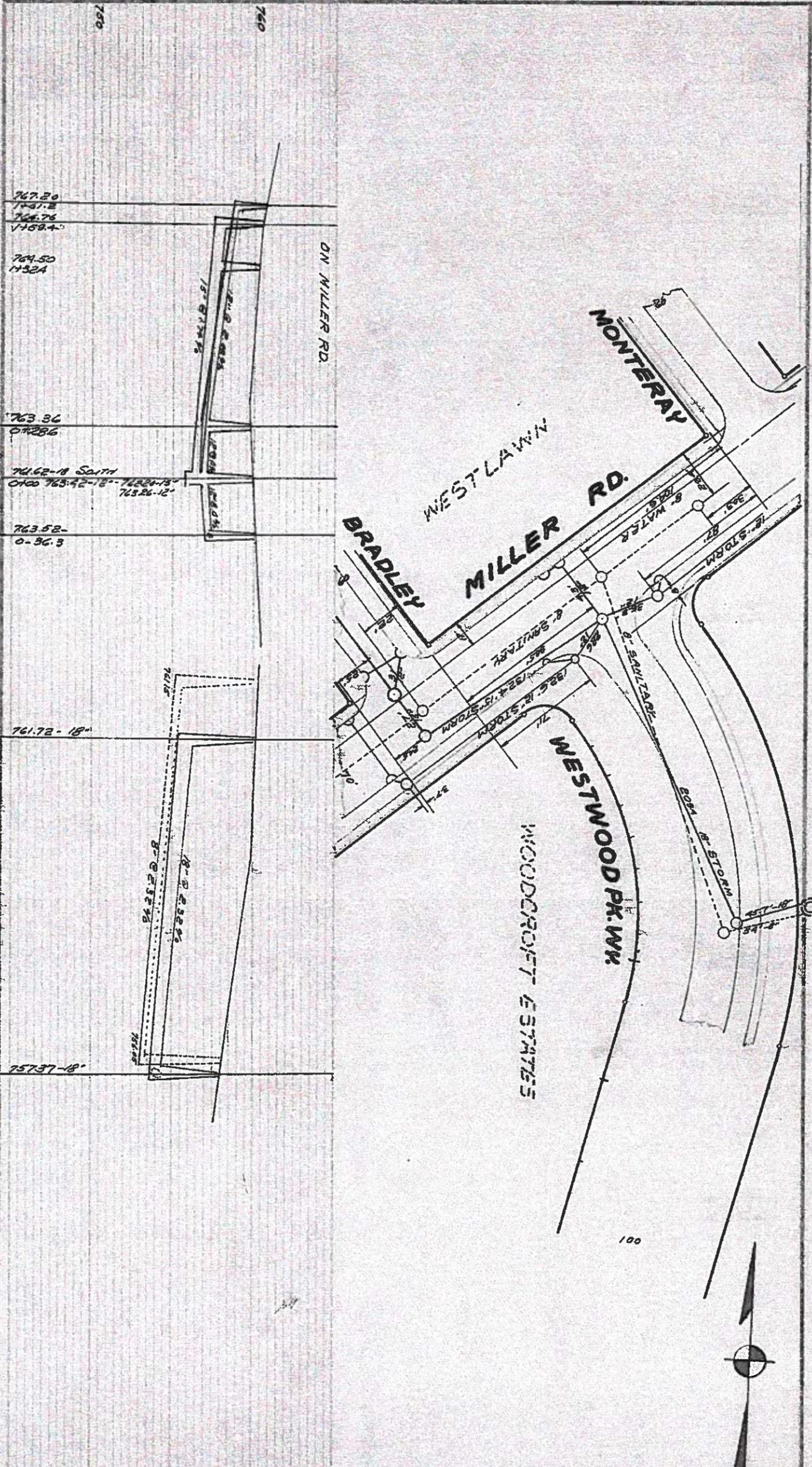
DRAWN BY C.R.H. CHECKED BY

APPROVED BY THE COMMON COUNCIL, CITY OF FLINT.

DATE APPROVED BY THE PLANNING BOARD, CITY OF FLINT.

DATE WORK DONE BY BOOK PAGE

SHEET 3 OF 3



**CITY OF FLINT, MICHIGAN**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION.

**PLAN AND PROFILE OF**  
**WESTWOOD PK. W. - ACROSS LOTS**  
**MILLER RD. - ACROSS LOTS**

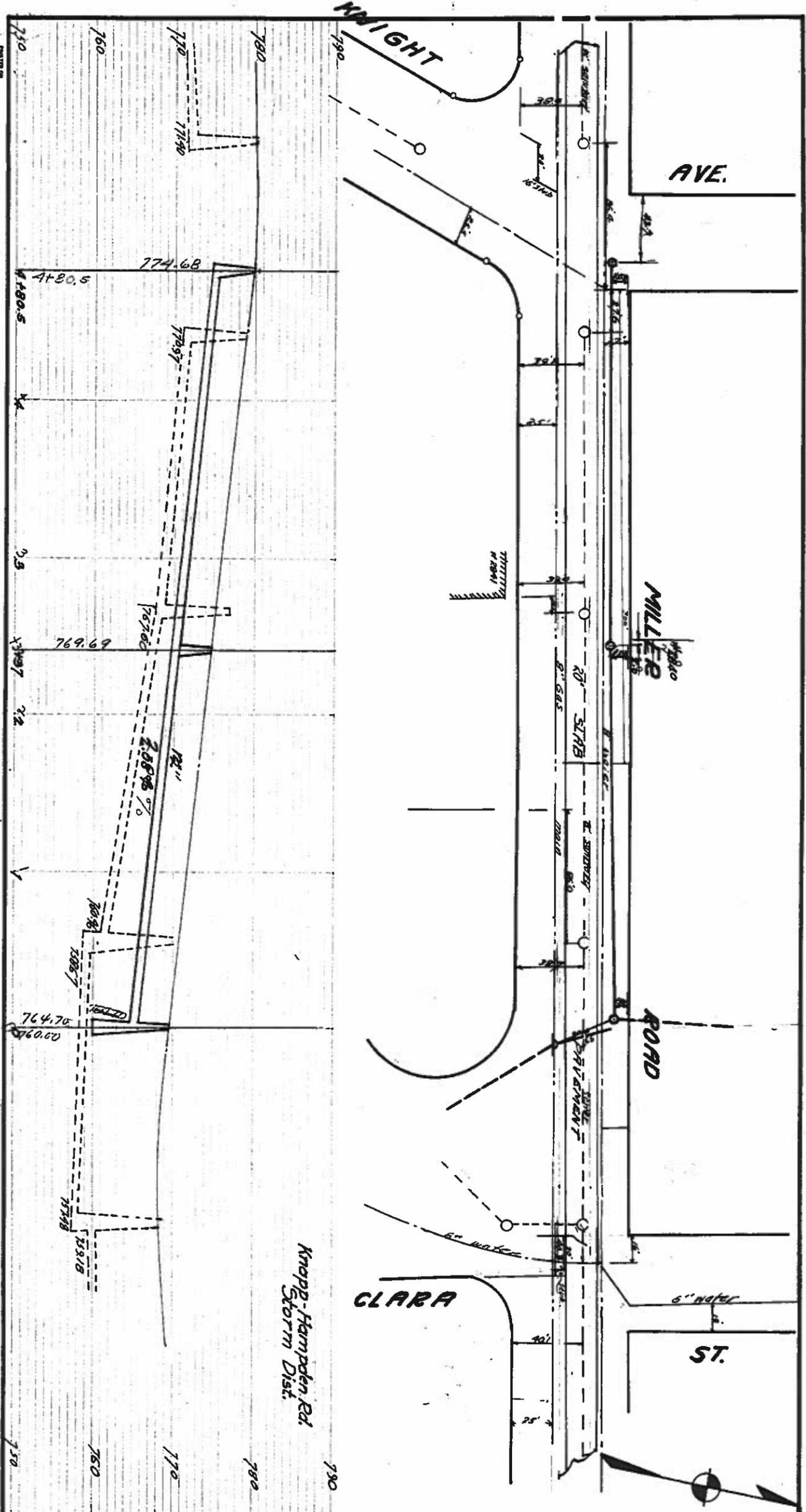
CITY MANAGER: \_\_\_\_\_  
 DIRECTOR: \_\_\_\_\_

SCALE: HORIZONTAL 1" = 10' VERTICAL 1" = 10'

DESIGNED BY: *SPJ* DATE: 3/22/28  
 APPROVED BY THE CITY COMMISSIONER: \_\_\_\_\_

DATE: \_\_\_\_\_ CITY CLERK: \_\_\_\_\_  
 DRAWN BY: *SPJ* FILE NO: 41  
 SHEET: 1 OF 1

D-2435

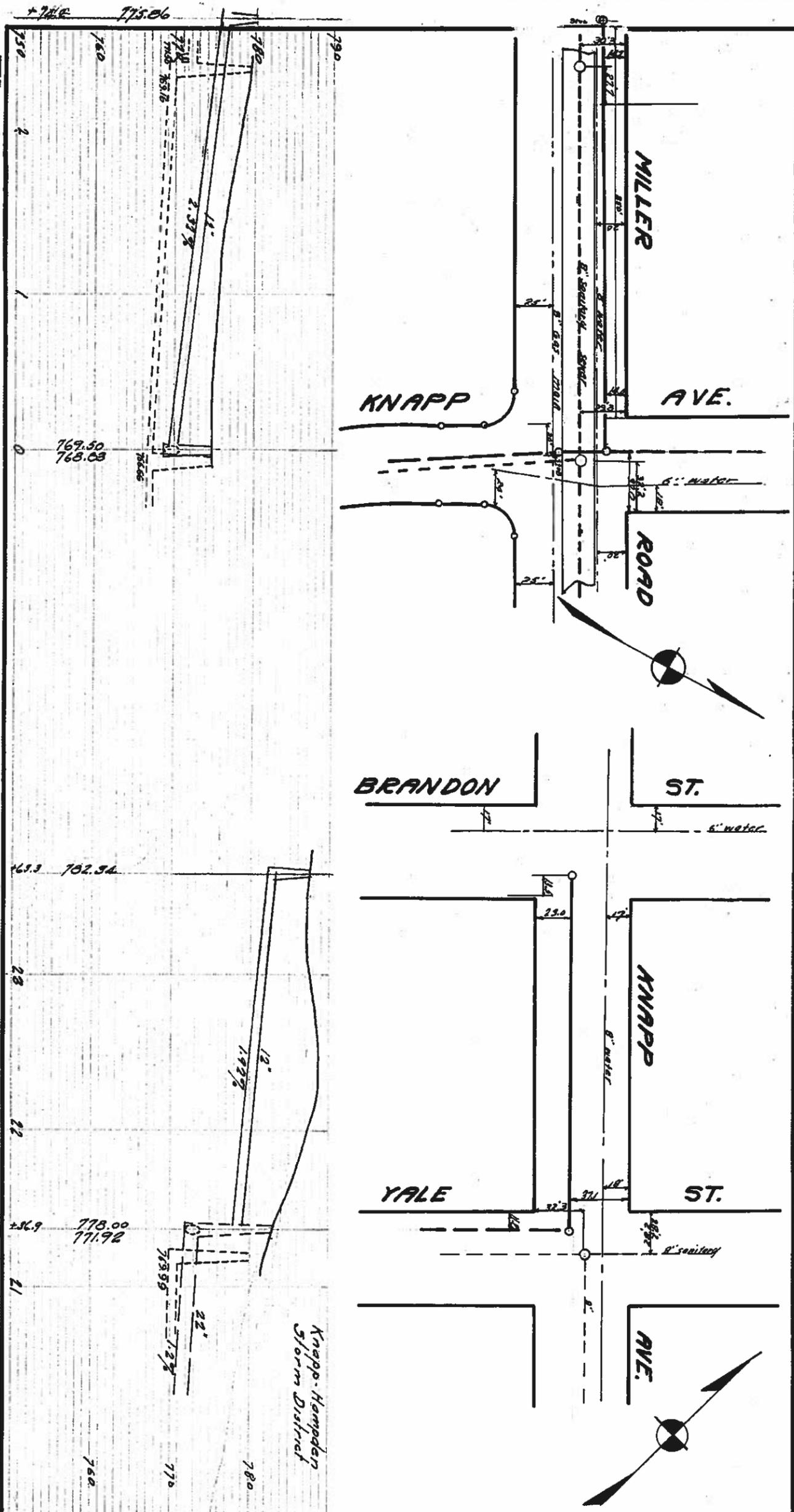


		QUANTITIES									
SIZE - INS.		8	10	12	15	18	20	24	30	36	42
LENGTH - EST.											
ACTUAL											
SYSTEM											
EXCAVATION		0-6	6-8	8-10	10-12	12-14	14-15	16-18			
CU. YDS. - EST.											
ACTUAL											
SYSTEM											
MANHOLES - EST.											
ACTUAL											
SYSTEM											

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

**CITY ENGINEER'S OFFICE, FLINT, MICH.**  
**MC. JACQUE DIRECTOR PUBLIC WORKS**  
**PLAN AND PROFILE OF**  
**MILLERA STORM SEWER**  
**KNIGHT AVE - CLARA AVE.**  
 SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'  
 DRAWN BY C.M.F. CHK'D BY S.M.H.  
 APPROVED BY THE COMMON COUNCIL, CITY OF FLINT  
 DATE APPROVED BY THE PLANNING BOARD, CITY OF FLINT, \_\_\_\_\_  
 CITY CLERK  
 DATE WORK DONE BY CITY OF FLINT BOOK PAGE  
 SHEET 10 OF 20 1930 436 56





CITY ENGINEER'S OFFICE, FLINT, MICH.	QUANTITIES									
	8	10	12	15	18	20	24	30	36	42
SIZE - INS.										
LENGTH - EST.										
ACTUAL										
SYSTEM										
EXCAVATION	0-6	6-8	8-10	10-12	12-14	14-16	16-18			
CU. YDS. - EST.										
ACTUAL										
SYSTEM										
MANHOLES - EST.										
ACTUAL										
SYSTEM										

APPROVED BY STATE SANITARY ENGINEER  
IN LETTER DATED \_\_\_\_\_ 19\_\_

**H.C. McCLURE DIRECTOR, PUBLIC WORKS**  
**PLAN AND PROFILE OF**  
**MILLER ST. SEWER**  
**NEAR KNAPP TO KNAPP**

SCALE: HORIZONTAL 1"=50' VERTICAL 1"=10'

DRAWN BY \_\_\_\_\_ CHK'D BY S.H.H.

APPROVED BY THE COMMON COUNCIL, CITY OF FLINT

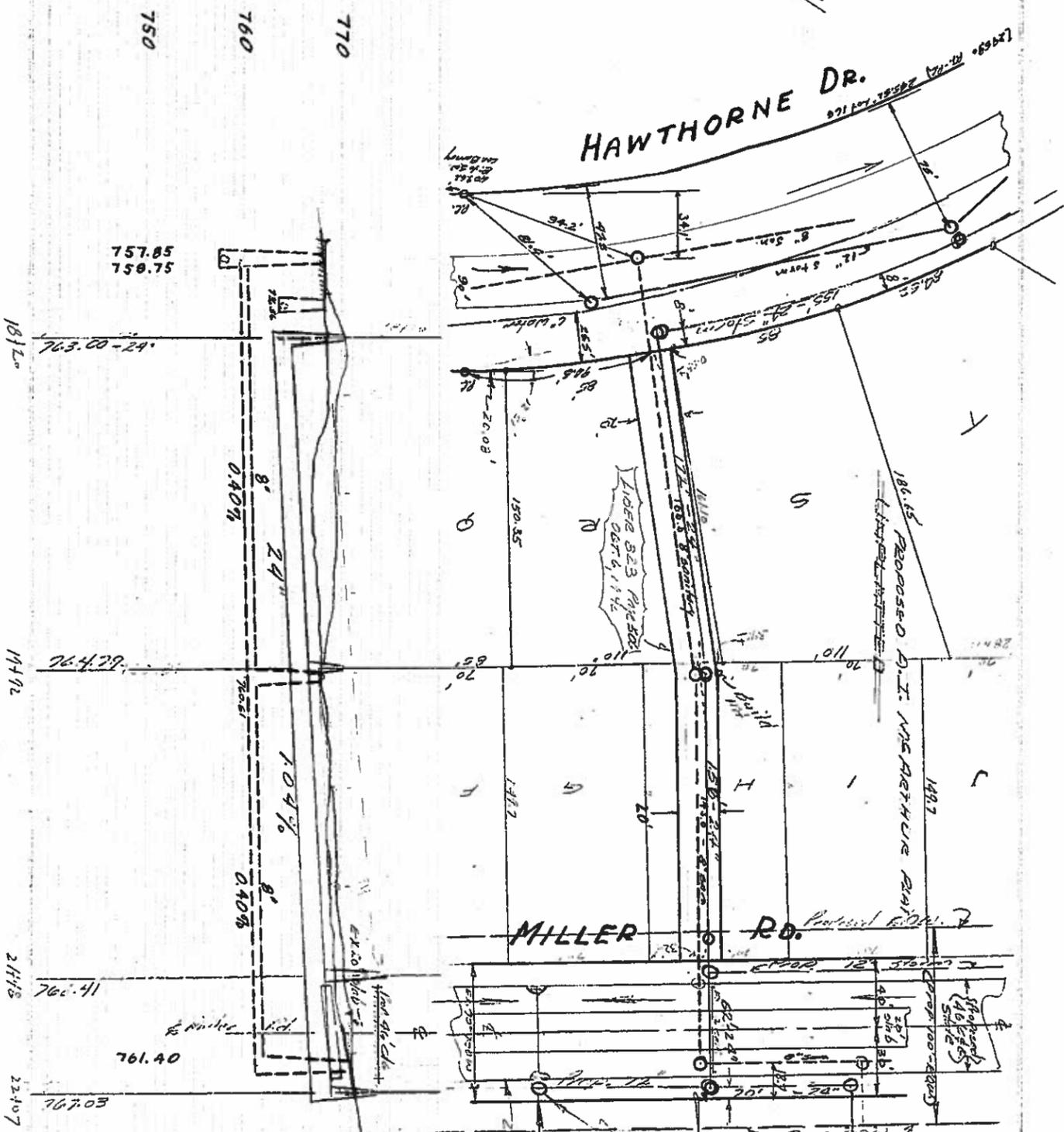
DATE \_\_\_\_\_ CITY CLERK

DATE \_\_\_\_\_ SECRETARY

WORK DONE BY BOON PAGE

SHEET 20 OF 20

Note: DO NOT SCALE !!



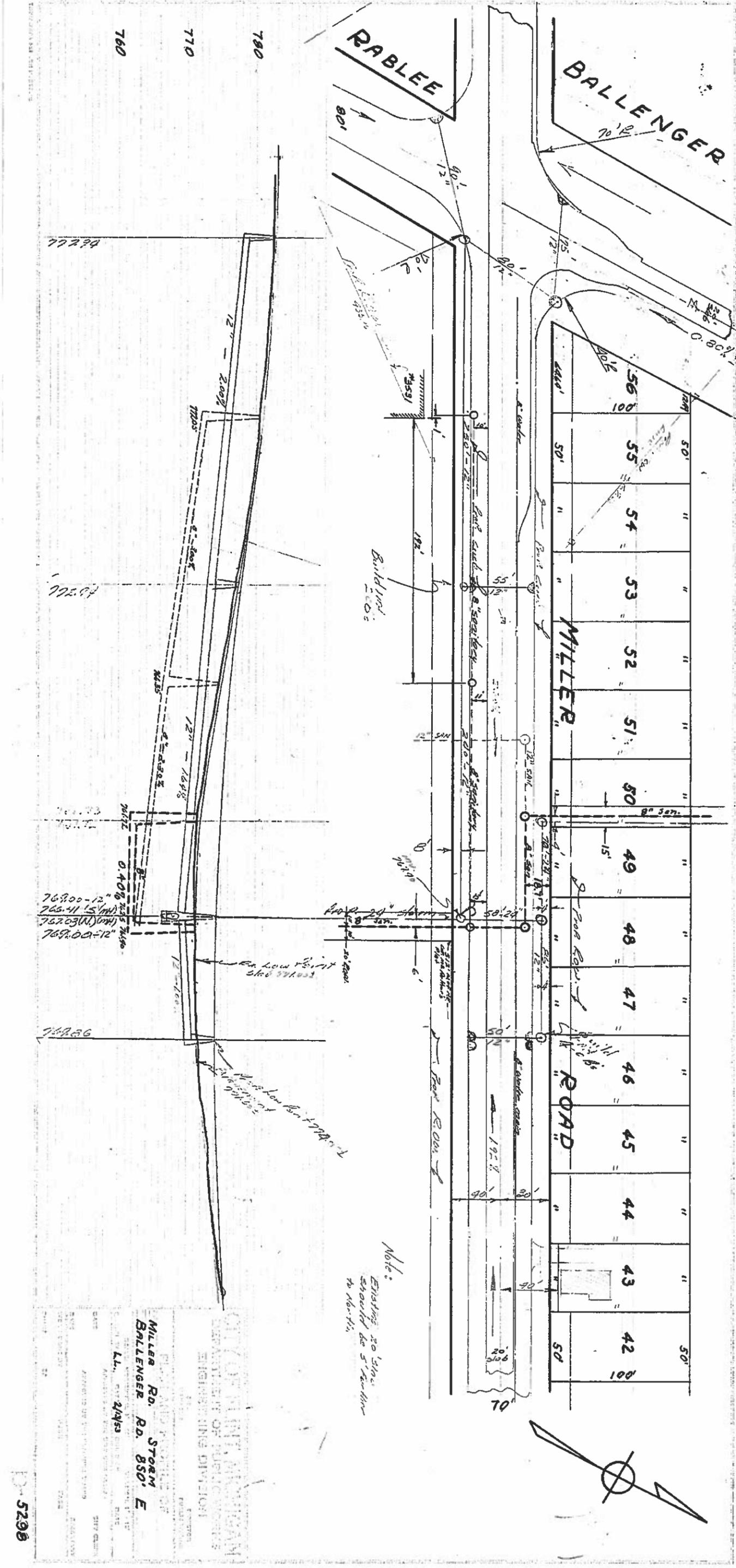
PLAN AND PROFILE OF  
**X-LOTS - STORM  
 KNOCLIFFE TO MILLER**  
 L.L. 2/18/33  
 APPROVED BY THE DIST. COMMISSIONER  
 DATE 1933  
 DRAWN BY THE PLANNING DIVISION  
 DATE 4/2/33

DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION

10  
 12.5  
 15.0  
 17.5  
 20.0

23.5  
 26.0  
 28.5  
 31.0  
 33.5

D-5297



Note:  
Existing 20' line  
should be 5' further  
to North

CITY OF MONTGOMERY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

MILLER RD. STORM E  
BALLENGER RD. 850' E

L.L. 2/19/33

APPROVED TO BE SET IN THE FIELD

DATE

BY

SCALE

PROJECT

NO.



# Preservation/Reconstruction Application

Genesee County Metropolitan Alliance

FY 2020-2023  
Transportation Improvement Program



**Preservation/Reconstruction Project Application**  
**Please Complete and Attach as a Front Cover to your Application**

TO: Sharon Gregory, Planner III  
Genesee County Metropolitan Planning Commission

Please indicate application type:

Preservation (PASER 5) Application (15% of funds in this category are reserved for preservation projects with a PASER 5 rating)

Preservation Application (60% of funds in this category are reserved for preservation projects)

Reconstruction Application (25% of funds in this category are reserved for reconstruction projects)

Application Agency: City of Flint

Contact Person: Betty Wideman

Phone/E-Mail: 810-766-7165 ext 2801 / bwideman@cityofflint.com

**Proposed Project Information**

(Please attach commitment from local funding agency in the form of a Resolution of Support. This is required for eligibility)

Road Name	<u>Miller Road</u>
Point of Beginning	<u>Ballenger Highway</u>
Point of End	<u>Hammerberg Road</u>
Project length in Miles	<u>1.4</u>
Current Number of Lanes	<u>4-5</u>
Number of Lane Feet in Project	<u>30104'</u>
Current Pavement Width	<u>36'</u>
Current ADT	<u>7623</u>
If in a township, which one?	<u>City</u>

MDOT Project Description: (Please refer to list provided)

Preservation

**NOTE: Please provide a narrative describing the details of the project on the following page. Please be specific and feel free to attach additional pages.**

## Detailed Project Description

This 1.4-mile stretch is a key entryway from the west side of town. Miller Road connects I-75 and I-69 to the City.

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Community assets include Powers Catholic High School, Michigan School for the Deaf, Eisenhower Elementary School, Downtown Flint, and major shopping areas and restaurants just west of the City of Flint. Public transportation is offered along Miller Road via route 3 of the MTA.

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Improving Miller Road would increase the accessibility of these amenities for commuters using I-75, I-69 and for the convenience of shoppers on Miller Road just west of the City of Flint including Target, Best Buy, and the Genesee Valley Mall. Miller Road within the limits of the project is also a portion of the Crim Racecourse.

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Miller Road consists of an asphalt pavement section with one asphalt overlay already existing. The asphalt pavement section has continued to deteriorate beyond simple repairs. The proposed improvements for Miller Road will include milling the existing pavements.

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Pavement repairs will be made for the areas with the worst cracking. All existing manholes will be adjusted with new covers and concrete collars. Driveways entrances curb section for drives and sidewalk section by drives will be replaced. A three-inch HMA section will be placed to match the existing curb over the existing base.

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ADA ramps will be placed parallel except where the existing signal is located. Two sections of sidewalk will be added to connect all the sidewalks. A road diet will take it from four-lanes to a three-lane road including center turn lane and bike lanes in each direction. Miller Road is an NHS local mainline.

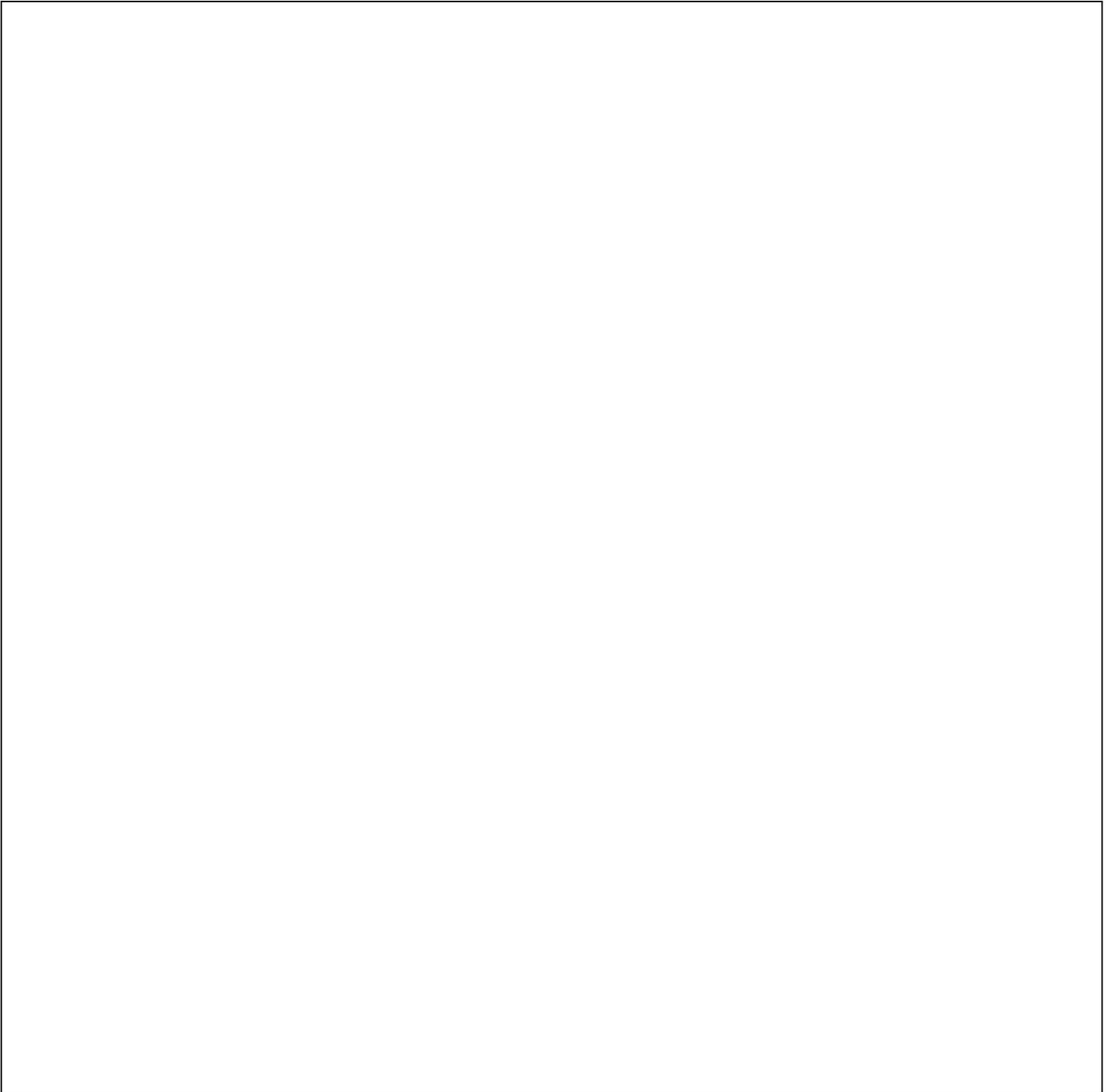
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Please provide a list of any alternatives to the proposed improvement and a brief explanation as to their shortcomings.

Alt #1 Do nothing to the Road- The road will continue to deteriorate and cause more  
expensive repairs in the near future. If nothing is done conditions will soon cause  
damage to vehicles and could cause injuries to the runners of the Crim.

Alt #2 Do a total reconstruct of this section of roadway. The reconstruct would not be  
cost affection at this time. However, if no preservation work is completed on this  
section of roadway it could lead to serious deterioration beyond the point of  
preservation.

**Diagrams of the existing segment, intersection, or area drawn at an appropriate scale and in sufficient detail to describe the existing situation and proposed improvement.**



**Estimated Project Cost**

Item	Total Cost	Federal Funds Requested	Local Match	Other Source of Funds	Funds Type & Amount
R.O.W	\$ 0	0	(100%)	(Y/N)	
Preliminary Engineering	\$ 210,875.37	(80%)Max \$ 168,780.30	(20%) Min \$ 42095.07	(Y/N)	
Construction Engineering	\$ 316,313.06	(80%)Max \$ 0	(20%) Min \$ 316,313.06	(Y/N)	
Construction	\$ 2,108,753.71	(80%) Max \$ 1,687,002.97	(20%) Min \$ 421,750.74	(Y/N)	
Total Project cost	\$ 2,635,942.14	\$ 1,855,783.27	\$ 495478.87	(Y/N)	

**NOTE: The PE and CE must be identified above to be eligible for funding.**

**Proposed Implementation Schedule**  
(Indicate beginning month / year and ending month/year for each activity)

Circle as many as needed Preferred Fiscal Year =1 Second Preferred year = 2	2020	2021	2022	2023
		1	2	

Item	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	June 2021	July 2021	Aug 2021	Sept 2021
R.O.W Acquisition												
Preliminary Engineering	X	X	X	X	X							
Construction Engineering								X	X	X	X	X
Grade Inspection			X									
Bid Letting							X					
Construction								X	X	X	X	X

Performance Measures and TIP Projects

A key feature of the Fixing America’s Surface Transportation (FAST) Act is the establishment of a performance and outcome-based program, originally introduced through the Moving Ahead for Progress in the 21<sup>st</sup> Century (MAP-21) Act. The objective of a performance-based program is for states and MPOs to invest resources in projects that collectively will make progress toward the achievement of national goals. 23 CFR 490 outlines the seven areas in which performance goals are required. These seven areas include: Safety; Infrastructure Condition; Congestion Reduction; System Reliability; Freight Movement; Environmental Sustainability, and Reduced Project Delivery Delay. Keep in mind that projects should be able to address performance measures which will help Genesee County meet its targets. A list of performance measures and targets is included at the end of this application.

**PAVEMENT CONDITION** (65 Points Available)

**2018 PASER Rating:** 3  
(From GCMPC 2018 PASER Map)

PASER RATING	POINTS
1-2	65
3	60
4	50
5	35
6	10
7-10	0

**AVERAGE DAILY TRAFFIC** (17 Points Available)

What is the ADT for this road segment? 7623

Per Thru Lane ADT	Points
7,000 and Above	17
6,999 to 6,000	15
5,999 to 5,000	12
4,999 to 2,000	7
1,999 or less	5

**PERFORMANCE PRINCIPLES** (18 Points Available)

**1. COMPLETE STREETS** (3 Points Available)

Which of the complete streets design elements are planned as part of this project? (ie: bike lanes, sidewalks, ADA accessible crosswalks, pedestrian crossings, etc.) If none, please explain. Does your project increase the safety of the street?

We will be upgrading sidewalk ramps and crosswalks at all of the intersections within the project limits to conform to the current ADA standards. A four-lane to three-lane conversion will be done within the

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total project limits. Two directional bike lanes will be added to this project.

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## 2. SAFETY - (5 Points Available)

Points will be given to projects that implement safety improvements in conjunction with normal roadway improvements. Safety improvements such as 4-to-3 lane conversions, signage and/or signal upgrades, lane re-striping, access management, turn lane additions, etc. all qualify. Please describe below the safety improvements proposed for this project.

New pavement markings will be updated and placed per the MMUTCD standards.

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This project will analyze and upgrade the existing permanent signage to meet all MMUTCD

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requirements. The four-lane to three-lane conversion will lower injuries and improve safety.

## 3. AREA-WIDE IMPACT - (10 Points Available)

Agency judgement shall be taken into consideration in this category. There are certain important and significant criteria which do not fit into any of the above categories. Nevertheless these should be included in establishing priorities. This criteria includes the following:

- a. Is this project located in an Environmental Justice (EJ) Zone identified in the Genesee County 2040 Long Range Transportation Plan? If so, what are the effects of the project, both positive and negative, and how do you plan to mitigate the negative effects?  
(2 Points)

Yes, the project is located in the Environmental Justice Zone identified in the Genesee County

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2040 Long Range Transportation Plan. This project will not cause any populations to be relocated or

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redistributed. Economic conditions will not be adversely impacted. Business will not be required to

relocate and jobs will not be adversely affected by this project. During the construction process, the project may impact the mobility and access for residents of the area to local business, public services,

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and other facilities in the area. The short-term negative impacts will be negated by the positive impact that will improve safe mobility and better access for the residents of the area and to the local businesses, public services, and other facilities at the completion of this project.

- b. Please identify and explain any additional transportation-related improvements taking place in the area. (2 Points)

b)Yes, The City of Flint is also applying for a roundabout construction project at

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Hammerberg Road and Miller Road. There is also a new walking path loop that is being investigated that would tie the trail along Hammerberg to the Genesee Valley Trail by the Flint River.

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- c. Is this project located in a traditional downtown area? Please explain the importance of this project to the community's traditional downtown. (4 Points)

This project is not within a traditional downtown area.

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- d. Regarding system reliability and congestion mitigation, points are available for projects that improve traffic flow and freight movement. Write a narrative that describes how your project can improve: travel time; congestion; freight movement; traffic signals; intersection accidents; and corridor timing. (2 Points)

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Miller Road between Ballenger Hwy and Hammerberg Road is approximately 95 %

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Residential with twenty-four side streets, Eighty-eight residential driveways and fourteen commercial driveways that includes one diagonal seven places head-in parking driveway.

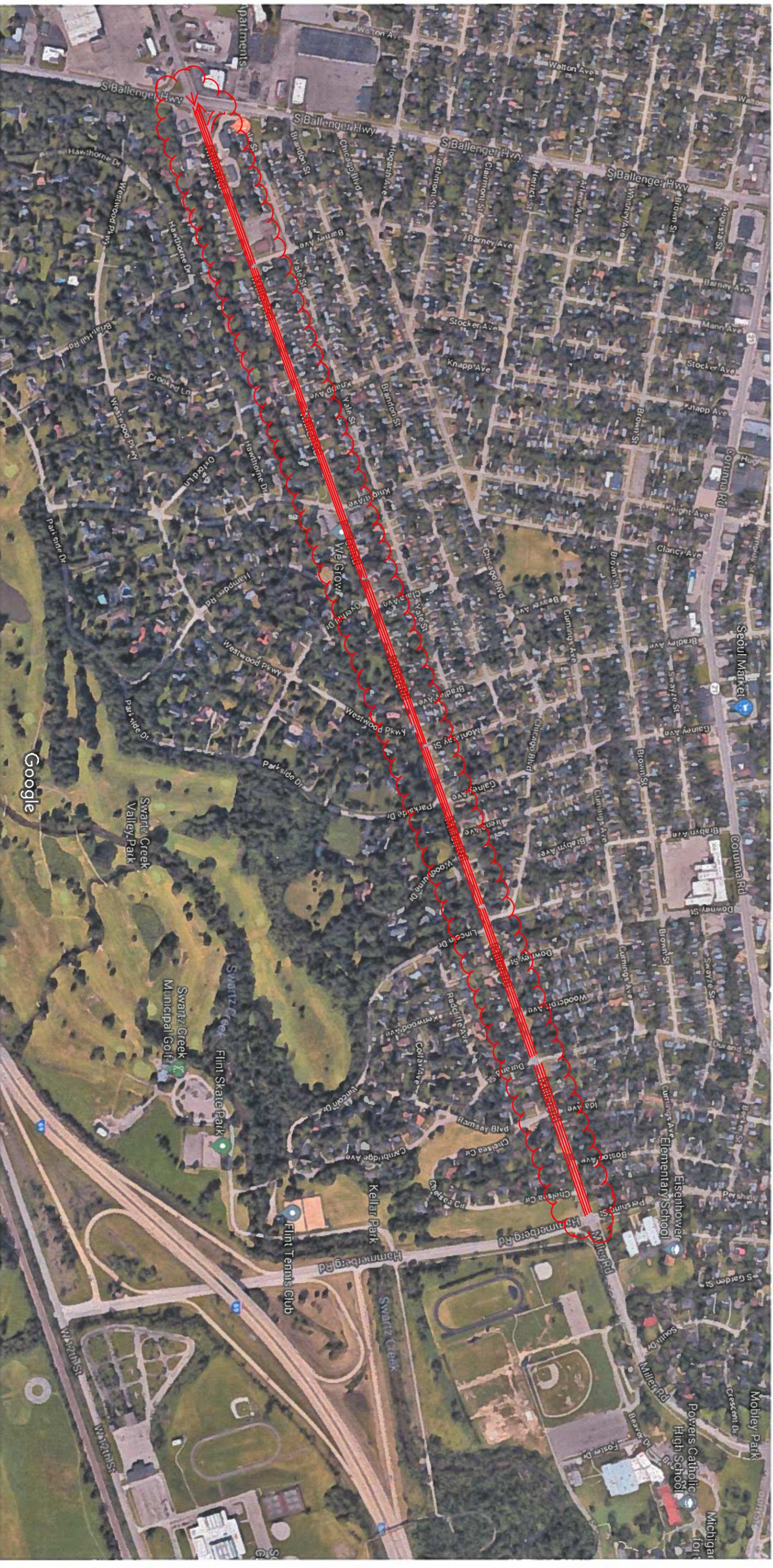
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This section between 2008 and 2013 had Twenty-two rear-end crashes, three left turns rear-end crashes, eight left turn head-on crashes, seven side-swipe crashes and a total of ninety-seven crashes. The road diet will create a calming effect, improve traffic flow plus reduce rear-end, head-on and side-swipe accidents.

**Performance Measures and Targets**

Performance Area	Measure	Baseline Condition (CY 2017)	2-Year State Target	4-Year State Target
Bridge	Percent National Highway System (NHS) Deck Area in Good Condition	32.7%	27.2%	26.2%
	Percent NHS Deck Area in Poor Condition	9.8%	7.2%	7.0%
Pavement	Percent of Interstate Pavement in Good Condition	56.8%	N/A	47.8%
	Percent of Interstate Pavement in Poor Condition	5.2%	N/A	10.0%
	Percent of Non-Interstate NHS Percent in Good Condition	49.7%	46.7%	43.7%
	Percent of Non-Interstate NHS in Poor Condition	18.6%	21.6%	24.6%
System Reliability	Level of Travel Time Reliability of the Interstate	85.1%	75.0%	75.0%
	Level of Travel Time Reliability of the Non-Interstate NHS	85.8%	N/A	70.0%
	Freight Reliability Measure on the Interstate	1.38	1.75	1.75
Congestion Mitigation/Air Quality (CMAQ)	Annual Hours of Peak Hours Excessive Delay per Capita	18 hours, 30 minutes	N/A	22 hours
	Percent of Non-Single Occupancy Vehicle Travel	16.0%	14.4%	14.4%
	Mobile Source Emission Reduction for Carbon Monoxide	87,665.109	32,968.780	65,937.560
	Mobile Source Emission Reduction for Particulate Matter	653.357	417.410	834.820

<b>Safety Performance Measure</b>	<b>Baseline Through 2016</b>	<b>2018 State Safety Target</b>
Fatalities	963.0	1,003.2
Fatality Rate (per 100 million VMT)	1.00	1.02
Serious Injuries	5,273.4	5,136.4
Serious Injury Rate (per 100 million VMT)	5.47	5.23
Non-Motorized Fatalities & Serious Injuries	721.8	743.6



# Miller Road Road Preservation Project Ballenger Highway to Hammerberg Road