

**ITEMS TO BE CONSIDERED
AT THE CAUCUS PRIOR TO THE COUNCIL MEETING
TO BE HELD ON TUESDAY, SEPTEMBER 16, 2025
7:00 P.M.**

I. ROLL CALL OF MEMBERS:

II. PLEDGE OF ALLEGIANCE:

III. DISCUSSION:

1. AN ORDINANCE APPROVING THE REZONING OF PERMANENT PARCEL NUMBER(S) 344-15-001 AND INCLUDING 344-15-176 FROM U3-B TO U6-A6, LOCATED AT 14401 SNOW ROAD. Introduced by Council As A Whole - PER COUNCIL PRESIDENT SALVATORE.

2. AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A CHANGE ORDER WITH ROLEN BROS. CO. INC., AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt – PER COUNCIL PRESIDENT SALVATORE

3. AN ORDINANCE PROVIDING FOR A CONTRACT BETWEEN THE CUYAHOGA COUNTY GENERAL HEALTH DISTRICT AND THE CITY OF BROOK PARK, OHIO AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt and Council as a Whole –PER COUNCIL PRESIDENT SALVATORE

4. AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A COOPERATION AGREEMENT BY AND BETWEEN CUYAHOGA COUNTY, OHIO, THE NORTHEAST OHIO REGIONAL SEWER DISTRICT, THE CITY OF BROOK PARK AND THE CITY OF MIDDLEBURGH HEIGHTS, FOR THE CONSTRUCTION OF THE SHELDON ROAD PROFILE RAISING & BRIDGE REPLACEMENT PROJECT AND DECLARING AN EMERGENCY. Introduced by Mayor Orcutt and Council as a Whole - PER COUNCIL PRESIDENT SALVATORE
*****Time Sensitive**

NOTE: EXECUTIVE SESSION – CONFIDENTIAL BUSINESS INFORMATION OF AN APPLICANT FOR ECONOMIC DEVELOPMENT ASSISTANCE – Mayor Orcutt.

VI. ADJOURNMENT:

Posted: 9/12/2025

CITY OF BROOK PARK, OHIO

P.C.
CA Prior 9/16/25
1st R _____
2nd R _____
3rd R _____
3 _____

ORDINANCE NO: _____

INTRODUCED BY: COUNCIL AS A WHOLE

AN ORDINANCE
APPROVING THE REZONING OF
PERMANENT PARCEL NUMBER(S) 344-15-001 AND INCLUDING 344-15-176
FROM U3-B TO U6-A6, LOCATED AT 14401 SNOW ROAD.

WHEREAS, the Ohio Constitution, the General Laws of the State of Ohio, and the Charter of the City of Brook Park vest the City of Brook Park with the power to amend or change such zones, districts, restrictions and regulations from time to time in the interest of the public health, safety, convenience, comfort, prosperity and general welfare; and

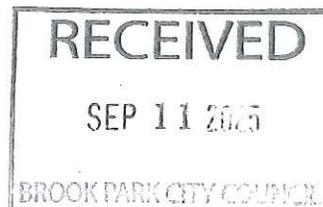
WHEREAS, on September 8, 2025, the Planning Commission issued a recommendation to rezone permanent parcel number(s) 344-15-001, and including 344-15-176 from U3-B to a U6-A6, and this Council finds their recommendation well taken.

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: Permanent parcel number(s) 344-15-001 and including 344-15-176 will be rezoned from a U3-B to a U6-A6, a description/site plan of said rezoning is attached hereto and incorporated herein as Exhibit "A."

SECTION 2: The Engineer of the City of Brook Park shall amend the Zoning Map of the City upon passage of this Ordinance.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.



SECTION 4: This ordinance is hereby necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reasons to rezone a certain parcels of property within our City; therefore this Ordinance shall take effect and be in force immediately from and after its passage and approval by the Mayor.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS.


DIRECTOR OF LAW



EXHIBIT "A"
Legal Description

For APN/Parcel ID(s): 344-15-001

Parcel 1:

Situated in City of Brook Park, County of Cuyahoga, and State of Ohio:

And known as being part of Original Middleburg Township Lot No. 4, Section 3, and being further bounded and described as follows:

Beginning at an iron pin at the intersection of the easterly curved line of Michael Drive, 60 feet wide, with the northerly line of the Parkman Subdivision, as appears on the plat recorded in Volume 185 of Maps, page 79, of the Cuyahoga County Records;

Thence northeasterly, along said easterly line of Michael Drive deflecting to the right, an arc distance of 30.84 feet, said arc having a radius of 227.35 feet, and a chord which bears North 30 deg. 24' 35" East, a distance of 30.82 feet to an iron pin at the point of reverse curvature;

Thence northeasterly, along said easterly curved line of Michael Drive deflecting to the left an arc distance of 170.00 feet, said arc having a radius of 287.35 feet, and a chord which bears North 17 deg. 20' 52" East, a distance of 167.53 feet to an iron pin at the point of tangency;

Thence North 0 deg. 23' 59" East, along said easterly line of Michael Drive, a distance of 34.44 feet to an iron pin at the point of curvature of the easterly line of Michael Drive, and the southerly curved line of Snow Road, 100 feet wide, as appears on the Dedication of Michael Drive recorded in Volume 182 of Maps, page 13, of the Cuyahoga County Records;

Thence northeasterly, along said curved turnout deflecting to the right, an arc distance of 24.91 feet, said arc having a radius of 20.00 feet, and a chord which bears North 36 deg. 04' 58" East, a distance of 23.33 feet to a drill hole on the southerly line of said Snow Road as appears on the Dedication Plat of Snow Road recorded in Volume 173 of Maps, pages 34 and 35, of the Cuyahoga County Records;

Thence northeasterly, along said southerly curved line of Snow Road deflecting to the right, an arc distance of 145.64 feet, said arc having a radius of 1784.26 feet, and a chord which bears North 74 deg. 06' 11" East, a distance of 145.58 feet to a drill hole;

Thence South 0 deg. 44' 47" East, a distance of 276.77 feet to an iron pin on the northerly line of said Parkman Subdivision;

Thence South 89 deg. 15' 13" West, along said northerly line of said Parkman Subdivision, a distance of 223.17 feet to the place of beginning and containing 1.0129 acres of land as surveyed and described by Hedrick & Associates, Inc., September, 1986. Be the same more or less, but subject to all legal highways.

Parcel 2:

Situated in City of Brook Park, County of Cuyahoga, and State of Ohio:

And known as being Parcel No. 3, in Lot Split of part of Original Middleburg Township Lot Nos. 3 and 4, Section No. 1, as shown by the recorded plat in Volume 249 of Maps, page 98, of the Cuyahoga County Records, as appears by said plat, be the same more or less, but subject to all legal highways.

This page is only a part of a 2021 ALTA Commitment for Title Insurance Issued by Chicago Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its Issuing agent that may be in electronic form.

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EXHIBIT "A"
Legal Description

Note: The above two Parcels are also known as follows:

Situated in City of Brook Park, County of Cuyahoga, and State of Ohio:

And known as being Parcel A in the Consolidation Map made for Dr. Rose Tam, of part of Original Middleburg Township Lots 3 and 4, Section No. 1, now in the City of Brook Park, as shown by the recorded plat in Volume 350 of Maps, page 75, of the Cuyahoga County Records, and containing 3.5961 acres of land, be the same more or less, but subject to all legal highways.

PPN: 344-15-001 (Including 344-15-176)

This page is only a part of a 2021 ALTA Commitment for Title Insurance Issued by Chicago Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B; Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its issuing agent that may be in electronic form.

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City of Brook Park
Fire Department

Edward A. Orcutt, Mayor
Eric C. Fike, Chief

August 28, 2025

Board of Zoning and Planning Commission
City of Brook Park

INRE: 09/08/2025 Planning and Zoning Appeals Meeting

To Whom It May Concern,

The Fire department has no issues or concerns with the applications being reviewed in this month's meeting.

Sincerely,

Brad Smith
Fire Prevention Officer
Brook Park Fire Department

MEMO

TO: Jason Monaco, Building Commissioner

FROM: Edward R. Piatak, P.E., Consulting City Engineer

DATE: August 29, 2025

SUBJECT: 14401 Snow Road – PPN 344-15-001 (Re-Zoning) – Planning Commission

CC:

Mr. Monaco:

I have reviewed the Planning Commission Application (September 2025 Meeting) for the proposed re-zoning request, from U-3B to U2-A6, at 14401 Snow Road (PPN 344-15-001) and have no objections.

Please advise me if you have any questions or require additional information.

EUTHENICS, INC.



Edward R. Piatak, P.E.
Consulting City Engineer

P/C
CA Prior 9/16/25
1st R _____
2nd R _____
3rd R _____

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR ORCUTT

AN ORDINANCE
AUTHORIZING THE MAYOR TO ENTER INTO A
CHANGE ORDER WITH ROLEN BROS. CO. INC.,
AND DECLARING AN EMERGENCY

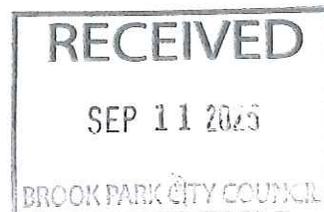
WHEREAS, Council passed Ordinance 11462-2025 on April 15, 2025 for fencing and repair work; and

WHEREAS, due to increased costs, an additional Seven thousand three hundred (\$7,300.00) is needed to complete the project.

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a change order with Rolan Bros. Fence Co. Inc., for the replacement of privacy fencing at Carpenter Park.

SECTION 2: The money needed for the aforesaid transaction shall be paid from the General Fund #100, and Capital Fund #401 provided that, the total amount to be paid under said contract not exceed \$7,300.00.



SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said change order with undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

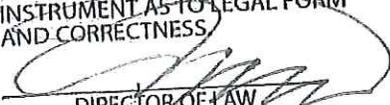
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS


DIRECTOR OF LAW

Carpenter Park

ROLEN BROS. FENCE CO., INC.

3429 West 86th Street
 Cleveland, Ohio 44102
 Ph: (216) 631-2111
 Fax: (216) 631-0110

| | |
|---|------------------------------|
| Called/Visited _____ | Estimate Date <u>7/17/25</u> |
| Customer's Name <u>City of Brook Park</u> | |
| Installation Address _____ | |
| City <u>Brook Park 44112</u> | |
| Phone (Home) _____ | |
| Phone (Other) <u>Brian Beyer</u> | |
| Email Address _____ | |

Type of Fence PVC
 Style of Fence 1/300 Solid
 Height of Fence 6'
 Overall Length 135'

| | |
|-----------------|-------------------|
| Total Job Price | \$ <u>7300.00</u> |
| 1/3 down | \$ <u>11</u> |
| 1/3 on start | \$ _____ |
| = Balance | \$ _____ |
| On Completion | \$ _____ |

- Cash
 Check
 Credit Card
 4% Convenience Fee™
 For Credit Purchases

Walk Gate Size _____
 Drive Gate Size _____

Notes: furnish & install approx 135' of 6' PVC fence white Illusions 1/300 on SXS posts

Fence removed by others

- No Permit
 Remove Old Fence with Ends & Corner
 Haul Away & Dispose
 Remove Footers Optional Extra Charge
 Type of Removal
 Core Drill
 Asphalt Breaks

Wood Fences are a natural product. We have no control over warping, cracking, or splitting of materials. Guarantee covers structural damage for 5 years.

- Customer is responsible for determining property line.
- Fence line must be cleared by customer.
- Rolen Bros. Fence Co., Inc. is not responsible for sprinkler systems or any other lines not detected, or marked, by OUPS.
- Deposits will be returned if job is cancelled, minus any costs incurred by Rolen Bros. Fence Co., Inc.
- Special orders require a 50% down payment and cannot be cancelled.
- 1.25% Per month will be added to all balances not paid after 10 days of completion.
- Installation will be scheduled AFTER deposit and building permit(s) are received.
- The Seller is entitled to recover, and the Buyer shall pay, all costs, expenses, and legal fees (including the fees of attorneys and persons not admitted to the bar performing services under the supervision of an attorney) incurred by the Seller in enforcing this Agreement.

BUYER TAKES FULL RESPONSIBILITY FOR THE LOCATION OF THE FENCE AND, OR MAKING CERTAIN IT IS INSTALLED UPON PROPERTY OWNED BY BUYER IN A LOCATION AND MANNER WHICH IS LEGAL UNDER STATE AND LOCAL LAWS AND ORDINANCES.

Customer Agrees: The customer, by accepting Rolen Bros. Fence Co., Inc., confirm that there will be no existing violations of any zoning, building, electrical or heating codes, regulation, laws or ordinances or other government regulations in the premises when the proposed installation or work is to be done. Customer agrees that Rolen Bros. Fence Co. Inc. will not be required by this proposal to bring any existing electrical, plumbing or heating system into conformance with any such code regulation, law or ordinance unless specifically set forth in the specifications.

Unanticipated occurrences: The amount of Rolen Bros. Fence Co. Inc. offer does not include the furnishing of any materials or labor caused by: (a.) the occurrence of circumstances which occur subsequent to the date of the proposal which neither Rolen Bros. Fence Co. Inc. nor customer could reasonably anticipate at this time or (b.) any condition not readily discoverable at the date of this proposal. Circumstances which cannot be reasonably be anticipated or conditions which are not readily discoverable shall include, but shall not be limited to subsequent damage to or destruction or loss of the premises or materials furnished by Rolen Bros. Fence Co. Inc. by fire, explosion, act of God, theft or vandalism unless caused by Rolen Bros. Fence Co. Inc.'s referred negligence, government regulation or intervention discovery inadequate or damaged plumbing, heating or electrical system unless specifically referred to in the proposal specifications.

If either (a.) or (b.) above happens, Rolen Bros. Fence Co. Inc. will have the right, in addition to any other rights, it may have to stop installation or work which has begun under this proposal, to cancel this contract and to be paid the reasonable value of the materials and labor furnished to the date of cancellation. The reasonable value of such materials and labor would be based on Rolen Bros. Fence Co. Inc. then current receipt prices for the materials and the labor charge of installers who are performing the installation.

Warranty: Installation Warranty - Rolen Bros. Fence Co. Inc. warrants the workmanship of the installation covered by this proposal as follows: For five (5) years from the date of installation, Rolen Bros. Fence Co. Inc. will correct any defects in installation workmanship without charge. For service under this warranty contact Rolen Bros. Fence Co. Inc. Evidence of the date of completion of the installation will be required.

Customer Signature X _____ Rolen Bros. Fence Co. Inc. IS NOT responsible for the removal of dirt.

CITY OF BROOK PARK, OHIO

P/C
CA 9/10/25 Prior 9/16/25
1st R _____
2nd R _____
3rd R _____
B/C _____

ORDINANCE NO: _____

INTRODUCED BY: MAYOR ORCUTT AND COUNCIL AS A WHOLE

AN ORDINANCE
PROVIDING FOR A CONTRACT BETWEEN THE
CUYAHOGA COUNTY GENERAL HEALTH DISTRICT AND
THE CITY OF BROOK PARK, OHIO,
AND DECLARING AN EMERGENCY

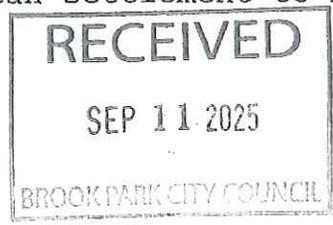
WHEREAS, the Cuyahoga County General Health District, has offered to provide health services for the City of Brook Park for the years 2026 and 2027. Such services to include all necessary medical, nursing, sanitary, laboratory, and such other health services as is required by the Statutes of the State of Ohio; and

WHEREAS, it is considered to be in the best interest of the City of Brook Park that said contract be entered into and to appropriate the sum of \$166,611.00 for 2026; and \$186,694.00 for 2027 for these services.

NOW, THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Mayor is hereby authorized and directed to enter into a two-year contract between the Cuyahoga County General Health District and the City of Brook Park, Ohio, for health services to be provided, and to include all necessary medical, nursing, sanitary, laboratory, and such other services as is required by the Statutes of the State of Ohio. A copy of said contract is attached hereto marked Exhibit "A", and made a part hereof as if fully rewritten herein.

SECTION 2: The Fiscal Officer of the Cuyahoga County is hereby authorized to deduct from Fund No. 100, General Fund said sum of \$166,611.00 in equal semi-annual installments of \$83,305.50 from the regular tax settlement to be made for said City for the year 2026; and the sum of \$186,694.00 in equal semi-annual installments of \$93,347.00 from the regular tax settlement to be made for said City for the year of 2027.



SECTION 3: This contract shall be in full force and effect from January 1, 2026 to December 31, 2027.

SECTION 4: The money needed for the aforesaid transaction shall be paid from funds appropriated from the General Fund No. 100 for said purpose.

SECTION 5: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 6: This ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason to provide for a contract for the public health services for the years 2026 and 2027; provided that this Ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS.


DIRECTOR OF LAW

PUBLIC HEALTH SERVICES AGREEMENT
(City with a General Health District - Authority—Sec. 3709.08 O.R.C.)



This Agreement is entered into on the 1st day of January, 2026 ("Effective Date") by and between the Cuyahoga County Board of Health (the "Board"), a separate political subdivision of the State of Ohio organized under the Constitution and Laws of the State of Ohio, and the City of Brook Park, a political subdivision, with its principal office located at 6161 Engle Road Brook Park, Ohio 44142 (the "City"), for and in consideration of the promises, covenants, and conditions hereinafter set forth.

WHEREAS, Cuyahoga County Board of Health is a general health district as defined under Ohio Revised Code (ORC) Section 3709.01 and is endowed with all of the statutory and other authority granted to it by reason of the Ohio Statutes as amended from time to time by the State Legislature; and

WHEREAS, the City has continued to have a city public health district as required by Ohio law; and

WHEREAS, pursuant to ORC Section 3709.01, each city in the State constitutes a health district and each county is a "general health district," and as provided for in ORC Sections 3709.051, 3709.07, and 3709.10, there may be a union of a general health district and a city health district; and

WHEREAS, ORC Section 3709.08 authorizes cities and villages in Cuyahoga County to enter into an Agreement with the Cuyahoga County General Health District on certain terms and conditions; and

WHEREAS, the District Advisory Council of the Cuyahoga County General Health District, created by ORC 3709.03, after giving due notice by publication as required by law, held a public meeting on March 20, 2025 at which by a majority vote of members representing the townships and villages of said county, did vote affirmatively on the question of providing public health services to the cities in Cuyahoga County, and did authorize the Chairman of the District Advisory Council to enter into an Agreement with the Mayor of the City for providing public health services therein; and

WHEREAS, the Board is engaged in the governance of providing public health services as described in this Agreement, has the knowledge, skill, and resources to provide such services, and desires to perform such services for or on behalf of the Board for the City; and

WHEREAS, the City is willing to enter into an Agreement with the Board to provide such services in accordance with the terms and conditions of Ohio law and this Agreement.

NOW, THEREFORE, it is mutually agreed by and between the parties hereto as follows:

1. EFFECTIVE DATE, TERM AND TERMINATION.

- (a) **Effective Date, Term.** This Agreement shall commence on the Effective Date first stated above and shall continue through December 31, 2027, unless earlier terminated pursuant to Section 1(b).
- (b) **Termination.** This Agreement may be terminated upon the occurrence of one of the following events:
 - (i) Failure for any reason of the either party to fulfill its obligations under this Agreement, after written notice is provided by the non-breaching party of such failure providing at least ninety (90) days for the breaching party to correct any such failure, and if such failure is not corrected within said period, the non-breaching party may give written notice of immediate termination;

(ii) Upon nine (9) months written notice, or on or before April 1 of the year prior to termination by either party for any reason.

1. THE SERVICES.

- (a) **Scope of Services.** Subject to the terms and conditions contained in this Agreement and its exhibits, the Board will provide to the City and, as applicable, to all persons receiving the direct services provided for herein, the Services that are set forth and described in the Scope of Work (SOW) attached as Exhibit A, which Exhibit is incorporated herein.
- (b) Unless otherwise agreed by the Parties in writing, all transactions for Services through Board will be provided in accordance with the provisions of Ohio law and/or this Agreement, including any revisions of the same, as both Parties may from time to time execute to document the addition, revision, or enhancement of Services.
- (c) **Standard of Performance of Services.** The Board will devote such time and will use its best efforts as necessary to perform the Services in a professional manner that: (i) is consistent with the standards of its industry and in a good and workmanlike manner, and (ii) utilizes the care, skill, and diligence normally applied by other similar boards of health in the performance of services similar to the Services.
- (d) The City shall provide suitable space for the Board employees who make regular visits to the City on a daily or weekly basis.

2. PAYMENT.

- (a) **Compensation.** Compensation is based on the ten (10) year census population estimate for the City and a per capita rate established by the Board. The per capita rate is the same rate applied to all Villages, Townships in the general health district as well as for all cities that enter into a Public Health Services Agreement with the Board. The most recent ten (10) year census for population in the City dated September 2021, is 18,595 residents. The current per capita rate established by the Board is \$8.96 per capita for calendar year 2026 and \$10.04 per capita for calendar year 2027. The total amount due based on the per capita rate will be One hundred and sixty-six thousand six hundred and eleven dollars (\$166,611.00) for calendar year 2026 and be One hundred and eighty-six thousand, six hundred and ninety-four dollars (\$186,694.00) for calendar year 2027. The Board reserves the right to change its per capita rate, as considered on an annual basis, based on current economic conditions and public health needs. In the event that the Board votes to make a change in the per capita rate, said change shall be limited to annual rates effective on January 1 for the following calendar year. The Board shall provide notice of the change in the per capita rate for the coming calendar year on or before October 31st of the current calendar year.
- (b) In consideration for the health services described in Exhibit A, which will be provided by the Board to and within the City, the City shall pay to the Board the total annual sum One hundred and sixty-six thousand six hundred and eleven dollars (\$166,611.00) for calendar year 2026 and the total annual sum of One hundred and eighty-six thousand, six hundred and ninety-four dollars (\$186,694.00) for calendar year 2027. The City hereby directs the Fiscal Officer of Cuyahoga County to place to the credit of the Board and the Fiscal Office of Cuyahoga County is hereby authorized and directed to deduct the sum stated above in equal, semi-annual installments of Eighty-three thousand, three hundred and five dollars and fifty cents (\$83,305.50) from the regular property tax settlement to be made for said City for calendar year 2026 and Ninety-three thousand, three hundred and forty-seven dollars (\$93,347.00) from the regular property tax settlement to be made for said City for calendar year 2027.

4. RECORDS.

- (a) The Board shall maintain copies of all records created or received by the Board in the performance of the work under this Agreement as required by Ohio's public records law. Any records created or received as a part of this Agreement shall be made available to the City upon request subject to exceptions listed below.
- (b) Any non-private health information in confidential records or information in the records created by the Board or that come into the possession of the Board under this Agreement shall, if provided to the City, be kept confidential by the City.
- (c) The Board is prohibited by State and Federal law from sharing protected health information and said records will not be shared with the City unless there is compliance with the proper method for release of said information.

5. NO ASSIGNMENT, TRANSFER, OR SUBAGREEMENT.

In performing the services specified under the terms of this Agreement, the Board shall not assign, transfer, or delegate any of the work or services, nor subcontract the work out to any other entity, nor shall any subcontractor commence performance of any part of the work or services included in this Agreement, unless such subcontracting is specified in this Agreement or its Exhibits, or unless prior written consent is provided by the City.

6. INDEPENDENT AGREEMENT.

- (a) The Board hereby acknowledges that it is an independent contractor and neither it nor its employees or agents are employees of the City. The Board shall be responsible for the payment or withholding of any federal, state or local taxes, including, but not limited to, income, unemployment, and workers' compensation for its employees, and the City will not provide, or contribute to any plan which provides for benefits, including but not limited to unemployment insurance, workers' compensation, retirement benefits, liability insurance or health insurance. All individuals employed by the Board provide personal services to the City are not public employees of the City under Ohio state law.
- (b) No agency, employment, joint venture or partnership has been or will be created between the parties pursuant to the terms and conditions of this Agreement. Inasmuch as the City is interested in the Board's end product, the City does not control the manner in which the Board performs this Agreement.

7. NOTICES.

All notices, invoices and correspondence which may be necessary or proper for either party shall be addressed as follows:

TO THE BOARD:

Cuyahoga County Board of Health
Attention: Roderick Harris, Health Commissioner
5550 Venture Drive
Parma, Ohio 44130

TO THE CITY:

City of Brook Park
Attention: Mayor Edward Orcutt
6161 Engle Road
Brook Park, Ohio 44142

And

City of Brook Park
Attention: Director of Law
6161 Engle Road
Brook Park, Ohio 44142

5. EFFECT OF ELECTRONIC SIGNATURE

By entering into this Agreement, the parties agree that this transaction may be conducted by electronic means, including, without limitation, that all documents requiring signatures by the parties may be executed by electronic means, and that the electronic signatures affixed by the authorized representatives of the parties shall have the same legal effect as if the signatures were manually affixed to a paper version of the documents. The parties also agree to be bound by the provisions of Chapter 1306 of the Ohio Revised Code as it pertains to electronic transactions.

6. APPLICABLE LAW AND VENUE

Any and all matters of dispute between the Parties to this Agreement whether arising from the Agreement itself or arising from alleged extra contractual facts prior to, during, or subsequent to the Agreement, including without limitation, fraud, misrepresentation, negligence, or any other alleged tort or violation of the Agreement, will be governed by, construed, and enforced in accordance with the Laws of the State of Ohio, without regard to the conflict of laws or the legal theory upon which such matter is asserted.

7. SEVERABILITY.

If any provision hereof shall be determined to be invalid or unenforceable, such determination shall not affect the validity of the other provisions of this Agreement. Moreover, any provisions that should survive the expiration or termination will survive the expiration or termination of this Agreement.

8. AMENDMENT

This Agreement shall not be modified except by the express written consent by both parties hereto.

9. WAIVER.

Waiver by either party or the failure by either party to claim a breach of any provision of this Agreement shall not be deemed to constitute a waiver or estoppel with respect to any subsequent breach of any provision hereof.

10. FORCE MAJEURE.

Neither party shall be liable for any delay or failure to perform any duty or obligation it may have pursuant to this Agreement where such delay or failure has been occasioned by any act of God, fire, strike, inevitable accident, war or any cause outside the party's reasonable control.

11. COUNTERPARTS

This Agreement may be executed in several counterparts, each of which shall be deemed to be an original copy, and all of which together shall constitute one Agreement binding on all parties hereto, notwithstanding that all the parties shall not have signed the same counterpart.

5. ENTIRE AGREEMENT.

This Agreement constitutes the entire agreement of the parties with respect to its subject matter, and supersedes all prior and contemporaneous agreements, representations or understandings, whether written or oral, as to the same.

IN WITNESS WHEREOF, the parties have executed this Agreement by their duly authorized representative to be effective as of the Effective Date as specified in Section 1 of this Agreement.

FOR THE BOARD:

Mayor David Smith
President District Advisory Council

Date: _____

Approved as to form.
Cuyahoga County Board of Health
Office of General Counsel

By: _____

Date: _____

FOR THE CITY:

Mayor Edward Orcutt

Date: _____

Approved as to form.

By: _____
Director of Law

Date: _____
9/4/25

EXHIBIT A

SCOPE OF WORK

The General Health District of Cuyahoga County, Ohio, hereby agrees to provide health services for the City of Brook Park for the calendar years 2026 and 2027 as set forth below (“Services”).

- The Board shall have full authority to be and act as the public health authority for the City.
- The Services described in the schedule listed below in this Exhibit will be provided by the District Board of Health of Cuyahoga County (“Board”) to the City.
- The Services will include all necessary medical, nursing, sanitary, laboratory and such other health services as are required by the Statutes of the State of Ohio.
- Air pollution enforcement services, as described in Chapter 3704 of the Ohio Revised Code (“ORC”), will be conducted through the designated agent, the Cleveland Division of Air Pollution Control, not by the Board. This authorization is contingent upon renewal of the Agreement between the Ohio EPA and the City of Cleveland and satisfactory performance of the Agreement terms and conditions regarding air pollution control in Cuyahoga County. The Board of Health reserves the right to alter, modify or amend this Agreement provision with notice to the City.
- The following specific services shall be a part of the Services provided under this Agreement:

List of Functions, Programs and Services

| |
|---|
| Animal Control and Shelter: |
| Rabies Surveillance – Animal bite follow up |
| Environmental Health - State Programs: |
| Food Service Operation Licensing/ Inspection/Education |
| Retail Food Establishment Licensing & Inspection. |
| School Facilities Inspection |
| Smoke Free Workplace Enforcement |
| Public Swimming Pool & Spa Licensing & Inspection |
| Tattoo & Body Piercing Enforcement |
| Temporary Park Camp Licensing/Inspection/Enforcement |
| Clean Indoor Air Regulation - complaint based response |
| Home Day Care Inspections - USDA Inspections Only/Fee for Service |
| Nuisance & Vector Control |
| Residential Housing/Commercial Building Inspection - complaint based response |
| Solid Waste Enforcement |
| West Nile Virus Prevention/Mosquito Control |
| Animal Venue Licensing/Inspection/Enforcement |
| Emergency Preparedness: |
| Public Health Emergency Preparedness (PHEP) |
| Planning and Cities' Readiness Initiative activities |
| Emergency Management Committee - participation |

| |
|---|
| Development of Local Emergency Response Plan - participation |
| Community Outreach and Education |
| Northeast Ohio Regional Public Health Partnership - participation |
| Epidemiology, Surveillance, Investigation Services: |
| Reportable Infectious Disease investigation and follow-up (excluding HIV/AIDS; STD; TB) |
| Disease Outbreak Management |
| Regional Infection Control Committee – participation |
| NEO Regional. Epidemiology Response Team – participation |
| Health Promotion: (As Appropriate) |
| Immunization Program: |
| Childhood and Adult Vaccine Administration Services - Fee for Service. Most insurance accepted, by appointment. Charges may be waived for inability to pay. |
| Seasonal Influenza vaccine clinics - Fee for Service, most insurance accepted. |
| Immunize Ohio- participation |
| Jail Inmate Health Services: |
| Jail Inspection - provided once annually |
| Lead Poisoning Prevention: |
| Pediatric blood lead testing - Fee for Service. Charges may be waived for inability to pay |
| Case management |
| Environmental Assessment - Limited fee for service |
| Community Education and Outreach |
| Greater Cleveland Healthy Homes Advisory Council |
| Occupational Health: |
| Immunizations and Tuberculosis screenings - Fee for Service |
| Bureau for Children with Medical Handicaps (BCMh) Public Health Nursing Services |
| Administrative Services: |
| Administration |
| Grant Writing & Management |
| Budget |
| Records Management |
| Accounts Payable, Accounts Receivable |
| Data Entry & Program Management |
| Reports - Financial & Statistical |
| Payroll |

The Board maintains a range of grant funded programs for citizens throughout the County who are income qualified.

THE BOARD RESERVES THE RIGHT TO AMEND THIS EXHIBIT AT ANYTIME.

CITY OF BROOK PARK, OHIO

P/C
CA 9/10/25, 9/16/25
1st R
2nd R
3rd R

ORDINANCE NO. _____

INTRODUCED BY: MAYOR ORCUTT AND COUNCIL AS A WHOLE

AN ORDINANCE

AUTHORIZING THE MAYOR TO ENTER INTO A COOPERATION AGREEMENT BY AND BETWEEN CUYAHOGA COUNTY, OHIO, THE NORTHEAST OHIO REGIONAL SEWER DISTRICT, THE CITY OF BROOK PARK AND THE CITY OF MIDDLEBURG HEIGHTS, FOR THE CONSTRUCTION OF THE SHELDON ROAD PROFILE RAISING & BRIDGE REPLACEMENT PROJECT, AND DECLARING AN EMERGENCY

WHEREAS, Sheldon Road at the Abrams Creek crossing has a history of flooding; and

WHEREAS, Cuyahoga County is responsible for the maintenance and repair of the Sheldon Road bridge, and has agreed to contribute to the costs of construction, inspection and construction management for the bridge; and

WHEREAS, the cities of Brook Park and Middleburg Heights share responsibility for the maintenance of Sheldon Road, as the municipal jurisdictional boundary serves as the centerline of such Road, therefore the cities agree to contribute to a portion of the cost of the construction, inspection and construction management of the Sheldon Road Profile Raising and Bridge Replacement Project; and

WHEREAS, in compliance with the Brook Park Service Agreement and the Middleburg Heights Service Agreement, the Northeast Ohio Regional Sewer District has agreed to contribute a portion of the cost of the construction, inspection and construction management of the Project.

NOW, THEREFORE BE IT ORDAINED by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The mayor is hereby authorized to enter into the agreement for the construction of the Sheldon Road Profile Raising & Bridge Replacement Project, which is attached hereto and incorporated herein as Exhibit "1".

SECTION 2: The money needed to complete the aforesaid project shall be paid from funds to be determined and theretofore appropriated or to be appropriated in the 2026 General Budget

and/or the Brook Park Community Cost-Share Funds (Regional Stormwater Management Program).

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, safety of said City, and for the further reason that City Council deems it necessary to proceed with the construction of the Sheldon Road Profile Raising & Bridge Replacement Project, therefore, provided this Ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately from and after its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

PRESIDENT OF COUNCIL

ATTEST: _____
CLERK OF COUNCIL

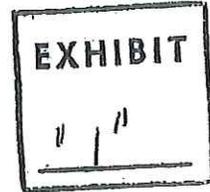
APPROVED: _____
MAYOR

DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS.

DIRECTOR OF LAW

**COOPERATION AGREEMENT
BY AND BETWEEN
COUNTY OF CUYAHOGA, OHIO,
NORTHEAST OHIO REGIONAL SEWER DISTRICT,
CITY OF BROOK PARK
AND
CITY OF MIDDLEBURG HEIGHTS
FOR
THE CONSTRUCTION OF THE SHELDON ROAD PROFILE RAISING & BRIDGE
REPLACEMENT PROJECT
(ALSO KNOWN AS "ABRAMS CREEK FLOOD REDUCTION PROJECT")**



This Cooperation Agreement ("Agreement") is entered into as of this _____ day of _____, 2025 ("Effective Date"), by and between the County of Cuyahoga, a body corporate and politic and a political subdivision of the State of Ohio organized and existing under the Charter of Cuyahoga County effective January 1, 2010, as the same may have been amended, modified, and supplemented to the effective date hereof (the "County"), acting pursuant to Resolution No. _____, adopted by Cuyahoga County Council on _____, 202__ (attached as Exhibit "A"), the Northeast Ohio Regional Sewer District ("District"), a regional sewer district organized and existing as a political subdivision under Chapter 6119 of the Ohio Revised Code, pursuant to the authority of its Board of Trustees Resolution No. _____, adopted on _____ (attached as Exhibit "B"), the City of Brook Park ("Brook Park"), a Charter Municipality of the State of Ohio, acting pursuant to Ordinance No. ____, adopted by its City Council on _____, 202__ (attached hereto as Exhibit "C"), and the City of Middleburg Heights ("Middleburg Heights"), a Charter Municipality of the State of Ohio, acting pursuant to Ordinance No. ____, adopted by its City Council on _____, 202__ (attached hereto as Exhibit "D"). The County, the District, Brook Park, and Middleburg Heights are referenced in this Agreement individually as a "Party" and collectively as "Parties." Brook Park and Middleburg Heights are also referenced in this Agreement collectively as "Cities."

RECITALS

WHEREAS, the Parties desire to perform the Sheldon Road Profile Raising & Bridge Replacement Design Project, which includes the expansion of the Sheldon Road Bridge the "Bridge") opening to convey the 100-year storm event and raising the profile and replacement of Sheldon Road to allow for acceptable passable conditions ("the Project"); and

WHEREAS, pursuant to a Project Agreement between the District and Brook Park, Brook Park retained Euthenics, Inc. ("Euthenics") as a consultant to perform the engineering design for the Project, and the District has agreed to reimburse Brook Park for costs incurred for the engineering design of the Project: and

WHEREAS, as the County is responsible for the maintenance and repair of the Bridge, the County agreed to contribute to the cost of the construction, inspection and construction management of the Bridge and to provide construction management services, select the contractor and construct the entire Project, as further described below; and

WHEREAS, the Cities share responsibility for the maintenance of Sheldon Road, as the municipal jurisdictional boundary serves as the centerline of such Road, therefore the Cities agreed to contribute to a portion of the cost of the construction, inspection and construction management of Sheldon Road, as described below; and

WHEREAS, Brook Park and the District entered into a Service Agreement where the District provides maintenance to the Regional Stormwater System within the territorial boundaries of Brook Park (the "Brook Park Service Agreement"); and

WHEREAS, Middleburg Heights and the District entered into a Service Agreement where the District provides maintenance to the Regional Stormwater System within the territorial boundaries of Middleburg Heights and the District; and WHEREAS, the Parties desire to enter into this Agreement to define their responsibilities for constructing the Project.

WHEREAS, in compliance with the Brook Park Service Agreement and Middleburg Heights Service Agreement, the District agreed to contribute to a portion of the cost of the construction, inspection and construction management of the Project, as described below.

NOW, THEREFORE, in consideration of the foregoing and the agreements set forth herein for the continued benefit of the Regional Stormwater System, the Parties agree as follows:

SECTION 1. OBLIGATIONS OF CUYAHOGA COUNTY

- 1.1. **Performance of the Project.** The County agrees to engage the necessary personnel, materials and equipment to supervise and administer the construction of the Project in accordance with the plans included in Exhibit "E," which include the replacement of the Bridge between approach slabs with a precast concrete box beam bridge (the "Bridge Project") and raising the profile and replacing Sheldon Road to improve stream function and mitigate flooding (the "Road Project"). The estimate of probable cost for the construction of the Project, including the construction administration and inspection, is \$7,219,559.00 ("Construction Cost").
 - 1.1.1. **Construction, Testing and Construction Inspection by the County.** The County shall arrange for the construction, inspection, supervision, and administration of the construction of the Project, subject to contribution from the District and the Cities as provided herein.
 - 1.1.2. **Permits.** Brook Park conducted title examinations and performed appraisals for the acquisition of all the properties and easements necessary for the construction and

maintenance of the Project and coordinated with all utility companies in finalizing the plans and specifications. Brook Park (through its consultant Euthenics) shall obtain all environmental permits necessary for the construction of the Project.

- 1.1.3. Construction Change Management. If there is a need for a construction change that results in an increase of the Construction Cost, the County will inform the other Parties via email before authorizing the work. The District agrees to review and approve such construction change within a reasonable time.
- 1.1.4. Prevailing Wages. For the labor used for constructing the Project, the County shall pay prevailing wages as set forth in Chapter 4115 of the Ohio Revised Code and shall ensure compliance with any prevailing wage requirements in said Chapter.
- 1.1.5. Copies of Contracts & Insurance. The County shall promptly, upon request of the other Parties to this Agreement, provide an exact copy of the Construction Contract (defined below in Section 4.1) and the certificate of insurance of any contractors performing the Project.
- 1.2. County Funds. The County agrees to contribute an amount not to exceed \$1,500,000 for the construction of the Bridge Project and the construction administration and inspection of the Project (the "County Funds"). The amount of the County Funds may be revised as provided in Section 1.3 below.
- 1.3. OPWC Funding. The County will prepare a grant application for funding from the Ohio Public Works Commission ("OPWC"). If the application is accepted, any funds received from the OPWC for the Project will be applied first to reduce the County's funding obligations under section 1.2. In the event the OPWC award is in excess of the County Funds, the remaining funds will then be applied to reduce the amount of funding due from the District and Cities for both the Road Project and the Bridge Project as described below. .
- 1.4. Competitive Bidding Requirements. County agrees to comply with the applicable competitive bidding requirements, including but not limited to the applicable contract provisions included in the Procurement Standards of 2 CFR Part 200, Appendix II to Part 200, and the EPA's Subaward Policy pursuant to the terms of the Subaward Agreement between the District and the County for the Federal Award (defined below in Section 2.2)
- 1.5. Reimbursement requests. The County shall provide to the District reimbursement requests no more than monthly and the District shall remit payment after receipt of documentation to the District's reasonable satisfaction and submitted in a form sufficient to allow the District to review, inspect and approve the County's invoices. Furthermore, all reimbursement requests shall comply with the terms of the Subaward Agreement between the District and the County for the Federal Award (defined below in Section

2.2) and the applicable EPA General Terms and Conditions, including but not limited to the certifications described in 2 CFR 200.415 for submitting financial and performance reports.

- 1.6. Record drawings. Upon the completion of the Project, the County will provide the other Parties with record drawings for the Project.
- 1.7. Compliance with laws. The County shall comply with any applicable state, federal and local statutes, policies, and regulations relating to equal opportunities, non-discrimination, prevailing wages, environmental, historic preservation, and all applicable floodplain management codes.
- 1.8. Project Schedule. The County agrees to solicit bids and award the construction contract for the Project no later than December 31, 2026. The Parties shall work together to develop a Project start and anticipated completion date. County shall keep the Parties informed of the progress of the Project and any anticipated changes to the schedule.
- 1.9. Public Participation, Outreach, and Signage. The Parties shall acknowledge the other Parties in presentations or publications related to the Project. The Parties shall work together to develop a public notification plan to inform the public of the Project. The Parties shall acknowledge the other Parties on Project-related public outreach communications and in County public meetings that discuss the Project.
- 1.10. Maintenance. Upon completion of the construction of the Project, the County will be responsible for the inspection and major maintenance of the Sheldon Road Bridge.

SECTION 2. OBLIGATIONS OF THE NORTHEAST OHIO REGIONAL SEWER DISTRICT

- 2.1. District Funds. The District agrees to contribute 90% of the actual costs of constructing the Road Project, including the County's costs to manage and inspect the construction. The District also agrees to contribute 100% of the actual cost to construct the Bridge Project that is in excess of the County Funds and the OPWC Funds. The total amount of the District's funding obligations shall not exceed \$5,00,422.50 (the "District Funds").
- 2.2. Federal Funding (the "Federal Award").
 - 2.2.1. Award. The U.S. Environmental Protection Agency ("EPA") awarded to the District a Community Grant for the Project (also known as the "Abrams Creek Flood Reduction Project" for the Federal Award purposes) in the amount of \$2,724,800.00 (the "Grant"). The District desires to pass through the Grant funds to the County as a subrecipient of the Grant for the purpose of bidding, supervising and administering the construction of the Project

2.2.2. Subaward Agreement. For the purposes of the Federal Award, the District will be considered a pass-through entity and the County will be considered a subrecipient of the Federal Award. To that end, the District and the County shall enter into a Subaward Agreement addressing the responsibilities of the parties to comply with the terms of the Grant, including the current EPA General Terms and Conditions effective October 1, 2024 or later.

2.2.3. Any funds received by the District from the Federal Award will be applied first to reduce the amount of the District Funds.

2.3. Meeting Participation. The District shall have the right to attend all Project progress meetings, for which the District will receive at least two (2) working days' advance notice. The District shall receive the meeting minutes from each meeting from the County within ten (10) working days of the meeting for review and comment.

2.4. Project Presentations. The District shall acknowledge the County in presentations or publications related to the Project.

2.5. Maintenance. The District will maintain the regional storm sewer assets in accordance with the Brook Park Service Agreement and the Middleburg Heights Service Agreement.

SECTION 3. OBLIGATIONS OF THE CITIES

3.1. City Funds. The Cities agree to contribute 10% of the actual costs of constructing the Road Project, including the County's costs to manage and inspect the construction, for a total not-to-exceed amount from the Cities combined of \$555,826.00 (the "City Funds"), as described below. If the actual cost of the Road Project exceeds the Cities' share of the Construction Cost, the Cities shall seek additional authority from their respective City Councils to amend the Community Cost Share Transfer Agreements described below to reimburse the District their proportional share of such additional costs.

3.2. Brook Park.

3.2.1 Brook Park and Euthenics shall prepare the Project bid documents that comply with the flow-down¹ requirements imposed on the District under the Federal Award to ensure that the EPA Grant is used in accordance with all applicable Federal statutes, regulations, and the terms of the Federal Award. These requirements include,

¹ "Flow-down" requirements include those statutory, regulatory, and Executive Order requirements that the District, as a "pass-through entity" of the EPA Grant to the County as a "subrecipient," is required to identify as potentially applying to subrecipients on EPA funded projects under 2 CFR 200.332 (a)(2).

but are not limited to, the Procurement Standards in 2 CFR Part 200, including competitive bidding and Domestic preferences for procurement at 2 CFR 200.322.

3.2.2 The District and Brook Park agree to enter into a Community Cost-Share Transfer Agreement where the City shall transfer to the District from the City's Community Cost-Share Account 5% of the cost of the Road Project in the amount estimated at \$277,913.00 ("Brook Park Community Cost-Share Funds"). Brook Park shall submit to the District an application for the Community Cost-Share Funds and execute a Community Cost-Share Transfer Agreement before July 1, 2026. After the execution of the Community Cost-Share Transfer Agreement but no later than December 31, 2026, Brook Park shall submit to the District a Fund Transfer Request form (Exhibit "F") for the entire amount of the Brook Park Community Cost-Share Funds.

3.2.3 In addition to the amount described in Section 3.2.2 above, Brook Park agrees to contribute \$161,310.50 ("Brook Park Sewer Funds") for the construction of the sanitary sewer described in the plans and specifications attached to the Agreement as Exhibit "E." Brook Park shall deposit the Brook Park Sewer Funds with the Treasurer of Cuyahoga County prior to an award of a construction contract for the Project, but no earlier than 30 days prior to such contract award.

- 3.3. Middleburg Heights. The District and Middleburg agree to enter into a Community Cost-Share Transfer Agreement where the City shall transfer to the District from the City's Community Cost-Share Account 5% of the cost of the Road Project in the amount estimated at \$277,913.00 ("Middleburg Heights Community Cost-Share Funds"). Middleburg Heights shall submit to the District an application for the Community Cost-Share Funds and execute a Community Cost-Share Transfer Agreement before July 1, 2026. After the execution of the Community Cost-Share Transfer Agreement but no later than December 31, 2026, Middleburg Heights will submit to the District a Fund Transfer Request form (Exhibit "F") for the entire amount of Middleburg Heights Community Cost-Share Funds.
- 3.4. In the event that the amount of the OPWC Funds and the Federal Award are sufficient to pay for more than 90% of the actual cost of the Road Project, such excess shall be applied to decrease the City Funds by proportionally reducing the Brook Park Community Cost-Share Funds and the Middleburg Heights Community Cost-Share Funds.
- 3.5. Required documents. The County shall provide the Cities with documentation to the Cities' reasonable satisfaction and submitted in a form sufficient to allow the Cities to review, inspect and approve the County's invoices.
- 3.6. Permits. Brook Park (through its consultant Euthenics) shall obtain all required federal, state, and local permits or other approvals necessary to commence and complete the construction of the Project.

- 3.7. Access. The Cities hereby grant the County all rights of access necessary for the construction of the Project and waive all City permitting or other fees related to the performance of all aspects of the Project. The County may enter upon and use all access roads in and around the Project area.
- 3.8. Meeting Participation. The Cities shall have the right to attend all Project progress meetings, for which the Cities will receive at least two (2) working days' advance notice. The Cities shall receive the meeting minutes from each meeting from the County within ten (10) working days of the meeting for review and comment.
- 3.9. Project Presentations. The Cities shall acknowledge the County and the District in presentations or publications related to the Project.
- 3.10. Maintenance. Upon the completion of the construction of the Project, the Cities will be responsible for the routine maintenance of the Bridge and the major and routine maintenance of Sheldon Road.

SECTION 4. SPECIAL PROVISIONS

- 4.1. Real Property. The County and the Cities agree to hold title of all the necessary rights of entry, temporary and permanent easements necessary for the Project.
- 4.2. Construction Contract. The contractor selected by the County ("County Contractor") shall be awarded the public improvement contract to construct the Project (the "Construction Contract") following the Procurement Standards of 2 CFR Part 200, Appendix II to Part 200, and the EPA's Subaward Policy. The contract between the County and the County Contractor shall include all applicable clauses stipulated at 2 CFR Part 200.327 and Appendix II. Once the County Contractor is selected and before the Construction Contract is approved by the Cuyahoga County Council, the County shall inform the District and the Cities of the amount of the Construction Contract and the identity of the County Contractor; and the District and the Cities shall acknowledge their approval in writing.

The County agrees to submit to NEORSD, within ten calendar days after a bid opening, or as soon as practicable, the bid package of the lowest and best bidder for review prior to the award of a contract, or as soon as practicable thereafter if a contract has been executed. The bid package will include the bid tabulation, a copy of the proof of advertising, the bid bond of the low bidder, the Minority Business Enterprise (MBE) / Women's Business Enterprise (WBE) proposed utilization by the low bidder with a statement from the County that the efforts taken by the low bidder meet the statutory/regulatory requirements, if applicable, and the recommendation to award a contract to the low bidder.

- 4.3. Reconciliation of Funds. Within 60 days from the final completion of the Project, the County shall reconcile the actual cost expended under the Construction Contract against

the estimated Construction Cost and the total payments received from the District. The County shall calculate each Party's share of the actual construction cost of the Project, including the costs of inspection and construction management, and reconcile the actual costs of the Project with the County Funds, the District Funds and the City Funds, and shall provide each Party a report of such reconciliation.

- 4.4. Liabilities; No Indemnification. The Parties acknowledge that, as political subdivisions of the State of Ohio, they are unable to indemnify any person or entity. The Parties agree that no provision of this Agreement or any other contract or agreement between them may be interpreted to obligate the one Party to indemnify or defend any other Party.

Each Party shall be responsible for all damages, suits, actions or claims of any character brought on account of claims arising from its activities or its consultant or contractor activities related to the Project, whether in contract or in tort for any injuries or damages sustained by any person or property resulting from negligence or on account of any wrongful act or omission of that party or its consultant or contractor.

No Party shall incur any liability or be responsible for any claim arising from the other Parties' activities related to the Project.

- 4.5. Change Requests. If any one or more of the Cities or the District formally requests that the County include the construction of sanitary sewers, waterlines, area sewers (drainage of area surrounding the improvement), sidewalks, alternate bid items, or other items in the Project that are in addition to those now existing and not provided for elsewhere in this Agreement, the County will do so, provided that this construction meets with the approval of the County and the Party requesting the addition; and that the Party requesting the County complete the addition agrees to pay, or make arrangements for the payment of, the cost of said additional construction, the cost of preliminary and design engineering, and construction supervision.

- 4.6. Additional Funds. In the event the Construction Cost discussed in Section 1.1 is insufficient to cover the amount of the Construction Contract, the District and the Cities agree to seek additional authority from their respective Councils and Board of Trustees to enter into an amendment to this Agreement to the Project for their proportional share of such additional cost.

SECTION 5. TERM

- 5.1. The Term of this Agreement shall commence on the Effective Date and shall expire upon successful completion of the obligations contained herein by all Parties.

SECTION 6. MISCELLANEOUS

- 6.1. Authority to Execute. Each person executing this Agreement represents and warrants that he is duly authorized to execute this Agreement by the Party on whose behalf he is so executing.

- 6.2. Binding on Successors. This Agreement is binding upon, and inures to the benefit of, the Parties and their respective permitted successors and assigns.
- 6.3. Counterpart Signatures. This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but which counterparts when taken together shall constitute one Agreement. The Parties agree that this Agreement may be executed and distributed for signatures via email, and that the emailed signatures affixed by the Parties to this Agreement shall have the same legal effect as if such signatures were in their originally written format.
- 6.4. Disclaimer of Joint Venture. This Agreement is not intended to create a joint venture, partnership or agency relationship between the Parties, and such joint venture, partnership, or agency relationship is specifically hereby disclaimed.
- 6.5. Governing Law. The terms and provisions of this Agreement shall be construed under and governed by the laws of Ohio (to which all Parties hereto consent to venue and jurisdiction).
- 6.6. Modification of Agreement. This Agreement may only be modified by written instrument executed by each Party.
- 6.7. Merger Clause. This Agreement, along with any exhibits and amendments hereto, encompasses the entire agreement of the Parties, and supersedes all previous understandings and agreements between the Parties, whether oral or written.
- 6.8. No Third-Party Beneficiaries. Nothing in this Agreement, express or implied, is intended to or shall confer upon any person other than the parties hereto, any legal or equitable right, benefit, or remedy of any nature under or by reason of this Agreement.
- 6.9. Remedies. The Parties agree that, after exhausting the dispute resolution process outlined above, all claims, counterclaims, disputes and other matters in question between the Parties arising out of or relating to this Agreement, or the breach thereof, will be decided at law.
- 6.10. Severability. If any term or provision of this Agreement is determined to be illegal, unenforceable, or invalid, in whole or in part for any reason, such provision shall be stricken from this Agreement and such provision shall not affect the validity of the remainder of this Agreement.

NOTICES

- 6.11. All notices delivered hereunder shall be made by email or regular U.S. mail to the following:

COUNTY

Thomas Sotak
Deputy Chief Engineering
Cuyahoga County Department of Public Works
2789 East 9th Street
Cleveland, Ohio 44115
tsotak@cuyahogacounty.us

DISTRICT

Kimberly Colich, P.E.
Stormwater Program Manager
NEORS
3900 Euclid Avenue
Cleveland, OH 44115
colichk@neorsd.org

CITY OF BROOK PARK

Edward R. Piatak, P.E.
City Engineer
Euthenics, Inc.
8235 Mohawk Drive
Cleveland, OH 44136
Phone no. (440) 260-1555
erpiatak@euthenics-inc.com.

CITY OF MIDDLEBURG HEIGHTS

Kim Kerber, P.E.
City Engineer
Wallace Pancher Group
7017 Pearl Rd.
Cleveland, OH 44130
phone no: (440) 886-4500
kkerber@manniksmithgroup.com

SECTION 7. EXHIBITS

7.1. The Exhibits attached to this Agreement are incorporated into and made part of this Agreement as though expressly rewritten herein. In the event of a conflict between the provisions of this Agreement and the Exhibits, these documents shall be given priority in the following order: 1) the District's Resolution; 2) the County's Resolution; 3) the Cities Resolutions; 4) the main body of this Agreement; 5) the Project plans and specifications; and 6) District's Fund Transfer Request form.

- Exhibit "A" - County's Resolution
- Exhibit "B" - District's Resolution
- Exhibit "C" - Brook Park's Resolution
- Exhibit "D" - Middleburg Heights Resolution
- Exhibit "E" - Project plans
- Exhibit "F" - District Fund Transfer Request form

[signatures on the following pages]

The Parties hereto have executed and delivered this Agreement as of the date first above written.

CUYAHOGA COUNTY, OHIO

By: _____
Christopher Ronayne, County Executive

The legal form and correctness
of this instrument is approved.

Rick Manoloff
Law Director

By: _____

Date: _____

NORTHEAST OHIO REGIONAL SEWER DISTRICT

By: _____
Kyle Dreyfuss-Wells
Chief Executive Officer

and: _____
Darnell Brown, President
Board of Trustees

The legal form and correctness
of this instrument is approved.

Eric Luckage
Chief Legal Officer

By: _____

Date: _____

This Instrument Prepared By:

Anka M. Davis
Assistant General Counsel
Northeast Ohio Regional Sewer District

CITY OF BROOK PARK

By: _____
Edward Orcutt, Mayor

The legal form and correctness
of this instrument is approved.

Carol Dillon Horvath
Law Director

By: 

Date: 9/4/25

CITY OF MIDDLEBURG HEIGHTS

By: _____
Matthew Caselli, Mayor

The legal form and correctness
of this instrument is approved.

Santo T. Incorvaia
Law Director

By: _____

Date: _____

AGREEMENT NO.

NORTHEAST OHIO REGIONAL
SEWER DISTRICT

WITH

CUYAHOGA COUNTY, OHIO,
CITY OF BROOK PARK
AND
CITY OF MIDDLEBURG HEIGHTS

FOR

THE CONSTRUCTION OF SHELDON
ROAD PROFILE RAISING & BRIDGE
REPLACEMENT DESIGN PROJECT
(ALSO KNOWN AS "ABRAMS
CREEK FLOOD REDUCTION
PROJECT")

CERTIFICATION

It is hereby certified that the amount required to meet the contract, agreement, obligation, payment or expenditure, for the above, has been lawfully appropriated or authorized or directed for such purpose and is in the Treasury or in process of collection to the credit of the fund free from any obligation or certification now outstanding.

KENNETH J. DUPLAY
CHIEF FINANCIAL OFFICER

| | |
|---------------------------|----------------|
| Total Approximate Cost: | \$7,219,559.00 |
| County Funds: | \$1,500,000.00 |
| District Funds: | \$5,002,422.50 |
| Brook Park Funds: | \$439,223.50 |
| Middleburg Heights Funds: | \$277,913.00 |

Date

The legal form and correctness of the within instrument are hereby approved.

ERIC J. LUCKAGE
CHIEF LEGAL OFFICER

Date

EXHIBIT A

EXHIBIT B

EXHIBIT C

EXHIBIT D

EXHIBIT E

GENERAL

BOUNDARIES

THE BOUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS, TOGETHER WITH THEIR RESPECTIVE OWNERS:

CITY OF BROOK PARK
1905 HOLLAND ROAD
BROOK PARK, OHIO 44142
CONTACT: BRIAN BEYER,
SERVICE DIRECTOR
PHONE: (216) 433-1192
bbeyer@cityofbrookpark.com

AT&T OHIO
13620 LORAIN AVENUE, 2ND FLOOR
CLEVELAND, OHIO 44111
CONTACT: DENISE PLANT
PHONE: (216) 302-5183
dp729@att.com

CEI FIRST ENERGY
6955 MILLER ROAD
BRECKSVILLE, OHIO 44111
CONTACT: JOHN M. ZASSICK
PHONE: (440) 546-8705
jzassick@firstenergycorp.com

CITY OF CLEVELAND
DIVISION OF WATER
1201 LAKESIDE AVENUE
CLEVELAND, OHIO 44114
CONTACT: FRED ROBERTS
PHONE: (216) 664-2444 EXT. 75590
Fred.roberts@clevelandwater.com

TC ENERGY (COLUMBIA GAS)
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OH 44130
ATTN: DAN SUREN
PHONE: (440) 891-2428
dsuren@source.com

WINDSTREAM
2165 STATE ROUTE 103
SOUTH BLANCHESTER, OHIO 45107
ATTN: LEON TAYLOR,
PHONE: (937) 725-5358
leon.taylor@windstream.com

NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSID)
3900 EUCLID AVE.
CLEVELAND, OH 44115
ATTN:
PHONE:
email: address

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM OWNERS AS REQUIRED BY SECTION 83.64 O.R.C.

ENBRIDGE GAS OHIO

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF ENBRIDGE'S PIPELINES, IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY ENBRIDGE FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES, ETC.) DEVICES DURING BRIDGE CONSTRUCTION. ENBRIDGE FACILITIES MUST BE PROTECTED AND REMAIN UNDAMAGED, ACCESSIBLE AND AVAILABLE FOR MAINTENANCE AND REPAIR. MEASURES SHOULD BE TAKEN TO ENSURE THAT ALL ENBRIDGE EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND AVAILABLE FOR MAINTENANCE AND REPAIR. THE CROSSING OF ENBRIDGE'S PIPELINES WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING ENBRIDGE FACILITY. PLEASE CONTACT ENBRIDGE'S CORROSION DEPARTMENT AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION AT: CORROSION@OHIOENBRIDGE.COM.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED AS DIRECTED BY THE ENGINEER UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL SUBSIDIARY AGREEMENT GOVERNING COMPLETION OF THIS PROJECT.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON THIS PROJECT. SEE SHEET 114.02 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: DDOT VRS
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 18

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD 83 (2011 ADJUSTED) EPOCH01
ELLIPSOID: GRS 80
COORDINATE SYSTEM: CUYAHOGA COUNTY (CCCS)
MAP PROJECTION: TRANSVERSE MERCATOR
CENTRAL LATITUDE: N 40° 09' 00"
CENTRAL LONGITUDE: W 81° 45' 00"
FALSE NORTHING: 0 METERS
FALSE EASTING: 5000 METERS
PROJECTION SCALE FACTOR: 1.000029

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

PRIMARY PROJECT CONTROL INFORMATION

| POINT NUMBER | GROUND COORDINATES U.S. SURVEY FEET | | ORTHOMETRIC HEIGHT (ELEVATION) | DESCRIPTION |
|--------------|-------------------------------------|------------|--------------------------------|---------------------|
| | NORTHING | EASTING | | |
| 100 | 45146.052 | 139963.368 | 771.10 | IPIN W/TRAVERSE CAP |
| 101 | 451466.123 | 140286.939 | 765.11 | IPIN W/TRAVERSE CAP |
| 102 | 451466.864 | 140873.097 | 764.27 | IPIN W/TRAVERSE CAP |
| 103 | 451451.907 | 141317.378 | 779.20 | IPIN W/TRAVERSE CAP |

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. IN ADDITION TO THE REQUIREMENTS OF SECTION 84.05, THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES, INCLUDING SUCH ADDITIONAL TRAFFIC CONTROL DEVICES LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION AS ARE REQUIRED ON HIGHWAYS WHICH ARE USED AS DETOURS, INCLUDING THE ROAD CLOSED SIGNS UPON THE BARRICADES AT THE POINT WHERE THE HIGHWAY IS CLOSED TO THROUGH TRAFFIC.

STATIONING AND LOCATIONS

STATIONING AND LOCATIONS INDICATED ON THESE PLANS ARE APPROXIMATE. ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS DIRECTED BY THE ENGINEER.

EXISTING TYPICAL SECTIONS

EXISTING TYPICAL SECTIONS HAVE BEEN DEVELOPED FROM SITE MEASUREMENTS, PAYMENT CORSES, AND RECORD PLANS AND BELIEVED TO REPRESENT THE WIDTH AND COMPOSITION OF THE EXISTING PAVEMENT BUT THE COUNTY DOES NOT WARRANT THE ACCURACY OF SAME. A COPY OF PAVEMENT CORE DATA FOR SHELDON ROAD IS INCLUDED UNDER SECTION 500 OF THE CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET CONTAINED IN THE BID PACKAGE.

ITEM 619 - FIELD OFFICE, TYPE B, AS PER PLAN

THE FIELD OFFICE SHALL, IN ADDITION TO THE ITEMS LISTED IN ITEM 619, BE FURNISHED WITH TWO CELLULAR TELEPHONES.

THE CONTRACTOR'S INSURANCE SHALL INCLUDE A RIDER FOR COVERAGE OVER ANY CUYAHOGA COUNTY PROPERTY INSIDE THE FIELD OFFICE WHICH MAY BECOME DAMAGED OR STOLEN.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THIS ITEM:

ITEM 619 - FIELD OFFICE, TYPE B, AS PER PLAN --- MONTHS

LOCAL LAWS, ORDINANCES AND REGULATIONS

IN ACCORDANCE WITH SECTION 107.01 OF THE GENERAL PROVISIONS, THE CONTRACTOR SHALL STAY FULLY INFORMED OF ALL LOCAL LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES THAT AFFECT THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE AND COMPLY WITH ALL SUCH LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES AT NO ADDITIONAL COST TO THE PROJECT/COUNTY.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM UNLESS OTHERWISE APPROVED BY THE MUNICIPALITIES. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE TOLERANCE AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

GENERAL NOTES

PLAN CHECKED BY ESM

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

- 1. ALL HORIZONTAL CONTROL AND, IF NECESSARY, VERTICAL CONTROL, REQUIRED FOR THE COMPLETE LAYOUT, TO BE PROVIDED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S EXPENSE AND SHALL BE PERIODICALLY REVIEWED BY THE ENGINEER. ANY INSPECTION OR ACCEPTANCE OF THE CONTRACTOR'S LAYOUT BY THE ENGINEER AND THE CONTRACTOR'S RESPONSIBILITY TO PRODUCE THE PROPER WORK DIMENSIONS, GRADES AND ELEVATIONS, THE REQUIREMENTS OF SECTION 107.10 OF THE GENERAL PROVISIONS ALSO APPLY.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND, IF APPLICABLE, ALL GRADES, LINES AND LEVELS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS, AND HE/SHE SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE ENGINEER BEFORE COMMENCING WORK OR ORDERING ANY MATERIAL.
- 3. THE CONTRACTOR SHALL MARK (PAINT) OR STAKE THE PROJECT STATION NUMBERS AT INTERVALS OF 50 FEET OR LESS AS DIRECTED OR APPROVED BY THE ENGINEER BEFORE COMMENCING THE WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND MARKS AND SHALL REPLACE THEM AT HIS/HER EXPENSE IF THEY ARE DAMAGED, LOST, DISPLACED OR REMOVED. THE CONTRACTOR SHALL USE COMPETENT PERSONNEL AND SUITABLE EQUIPMENT FOR THE LAYOUT WORK REQUIRED AND SHALL PROVIDE THAT IT IS DONE UNDER THE SUPERVISION OF A REGISTERED SURVEYOR. THE REQUIREMENTS OF SECTION 107.10 OF THE GENERAL PROVISIONS ALSO APPLY.

623.II BASIS OF PAYMENT.

PAYMENT WILL BE MADE UNDER:
ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING,
AS PER PLAN
LUMP SUM

GENERAL PROVISIONS

ALL REFERENCES TO THE GENERAL PROVISIONS (SECTION 100) OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS) THAT ARE CITED IN THE ITEMIZED SPECIFICATIONS, THE CONTRACT SPECIFICATIONS, PROPOSAL NOTES, PLANS OR ELSEWHERE, SHALL BE CONSIDERED AND TAKEN AS MEANING THE CUYAHOGA COUNTY ENGINEERING DIVISION'S GENERAL PROVISIONS AS CONTAINED IN THE "CUYAHOGA COUNTY ENGINEERING DIVISION BOOKLET". THE SUBSECTION NUMBERS AND TOPICS USED IN THIS COUNTY'S GENERAL PROVISIONS CORRESPOND TO THOSE CONTAINED IN THE ODOT CMS.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL, AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

| | |
|-----------------------------|---------|
| ITEM 618 - WATER | XX MGAL |
| ITEM 618 - CALCIUM CHLORIDE | XX TON |

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201. CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

| SIZES | NO. TREES | NO. STUMPS | TOTAL |
|-------|-----------|------------|-------|
| 18" | 9 | 1 | 10 |

TREE REMOVAL AND ENDANGERED SPECIES RESTRICTIONS

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, NORTHERN LONG-EARED BAT, LITTLE BROWN BAT, AND TRICOLORED BAT. NO TREES SHALL BE REMOVED FROM THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH OCTOBER 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACT PURPOSES OF THIS NOTE. A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD, WOODY PLANT WITH A TRUNK THREE INCHES (3") OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE AND HAVING A MINIMUM HEIGHT OF 15 FEET.

ADDITIONALLY, ALL EXISTING BRIDGE OR CULVERT STRUCTURES WITHIN THE LIMITS OF THIS PROJECT SHALL BE CAREFULLY EXAMINED FOR THE PRESENCE OF THE INDIANA BAT, NORTHERN LONG-EARED BAT, LITTLE BROWN BAT, AND TRICOLORED BAT. IF ANY OF THESE BATS ARE FOUND ROOSTING ON THE UNDERSIDE OF AN EXISTING STRUCTURE, THEN THE OHIO DEPARTMENT OF NATURAL RESOURCES (DNR) AND THE UNITED STATES FISH & WILDLIFE SERVICE (USFWS) MUST BE NOTIFIED OF THEIR PRESENCE.

CUYAHOGA COUNTY IS ALSO POTENTIAL HABITAT FOR THE PIPING PLOVER, A FEDERALLY ENDANGERED SHOREBIRD THAT NESTS ON WIDE, FLAT, OPEN SANDS (PIPING BAYS) AND BEACHES ALONG THE SHORELINES OF LAKE ERIE. PRESENCE OF THE PIPING PLOVER IS NOT EXPECTED WITHIN THE LIMITS OF THE PROJECT. HOWEVER, EFFORTS SHALL BE MADE TO PROTECT ANY IDENTIFIABLE HABITAT DISCOVERED AT THE PROJECT SITE.

PER SECTION 633.324 OF THE OHIO REVISED CODE, ALL MUSSELS NATIVE TO THE STATE OF OHIO, INCLUDING CUYAHOGA COUNTY, ARE PROTECTED INCLUDING TEN SPECIES THAT ARE FEDERALLY PROTECTED BY THE FEDERAL SPECIES ACT (FSA). THE FSA, AS AMENDED, IS U.S.C. 1531 ET SEQUENTIA. THE PRESENCE OF MUSSELS IN ANY BODY OF WATER WITHIN THE LIMITS OF THIS PROJECT IS NOT EXPECTED. HOWEVER, IMPACTS TO STATE AND FEDERAL PROTECTED MUSSELS AND THEIR HABITATS SHOULD BE AVOIDED OR MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.

ADDITIONAL INFORMATION FOR ANY OF THE ABOVE PROTECTED AND ENDANGERED SPECIES CAN BE FOUND ON THE WEBSITES FOR THE OHIO DEPARTMENT OF NATURAL RESOURCES (WWW.DNR.OHIO.GOV), THE OHIO ECOLOGICAL SERVICES OFFICE (WWW.PRS.OHIOHUNTER.OHIO), AND THE UNITED STATES FISH AND WILDLIFE SERVICE (WWW.FWS.GOV).

GENERAL (CONT.)

ADJUSTMENTS IN CONTRACT TIME

TIME EXTENSIONS WILL ONLY BE CONSIDERED WHEN CONTROLLING ITEMS OF WORK ON THE APPROVED PROGRESS SCHEDULE ARE AFFECTED DUE TO NO FAULT OF THE CONTRACTOR.

WHEN ADDITIONAL WORK IS REQUIRED, TIME EXTENSIONS WILL ONLY BE GRANTED FOR CONTROLLING ITEMS ON THE PROGRESS SCHEDULE (SEE SECTION 108.06 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS).

PROJECT PROGRESS MEETINGS

PROGRESS MEETINGS WILL BE HELD EVERY FOUR (4) WEEKS AT THE PROJECT OFFICE OR OTHER LOCATION DESIGNATED BY THE AREA CONSTRUCTION ENGINEER, AND WILL BE ATTENDED BY COUNTY AND CONTRACTOR DECISION-MAKING PERSONNEL.

THE PURPOSE OF THESE MEETINGS IS TO DISCUSS CRITICAL OPERATIONS AND POTENTIAL PROBLEMS. ALSO, THE CONTRACTOR WILL CONFIRM THE NUMBER AND DURATION OF WORK SHIFTS, NUMBER OF WORK CREWS, AND SPECIFIC PORTIONS OF THE WORK TO BE PERFORMED DURING THE FOLLOWING WEEKS.

THESE MEETINGS CAN ONLY BE WAIVED BY THE AREA CONSTRUCTION ENGINEER.

DEFINITIONS AND TERMS

WHEREVER THERE APPEARS, IN THE STANDARD SPECIFICATIONS (ODOT ITEMIZED CMS), SUPPLEMENTAL SPECIFICATIONS OR PROPOSAL NOTES, THE TERM "THE STATE," "DIRECTOR OF TRANSPORTATION," "DEPARTMENT OF PUBLIC WORKS," "CONSTRUCTION ENGINEER/DISTRICT CONSTRUCTION ADMINISTRATOR (DCA)," "ENGINEER," OR ANY OTHER TERM DESIGNATING AN EMPLOYEE OF THE STATE OR ITS DEPARTMENT, SHALL MEAN THE EMPLOYEE OF THE STATE OR ITS DEPARTMENT BEING REFERRED TO BY SUCH TERM. SUCH TERM SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING AND DESIGNATING THE RESPECTIVE CONTRACTOR'S EMPLOYEE OF CUYAHOGA COUNTY WHOSE DUTY OR FUNCTION IT IS TO DEAL WITH THE SUBJECT MATTER IN CONNECTION WITH WHICH SUCH TERM IS USED AND SPECIFICALLY:

THE STATE - MEANS CUYAHOGA COUNTY.

DEPARTMENT - MEANS THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR - MEANS THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS, HIS/HER DEPUTIES, OR ANY ENGINEER DESIGNATED AS THE DIRECTOR'S REPRESENTATIVE.

DISTRICT CONSTRUCTION ENGINEER/DISTRICT CONSTRUCTION ADMINISTRATOR (DCA) OR ENGINEER - MEANS THE AREA CONSTRUCTION ENGINEER, OR THE DULY AUTHORIZED AGENT OR REPRESENTATIVE OF THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS, ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR THE PURPOSES OF CONSTRUCTION ENGINEERING AND ADMINISTRATION OF THE CONTRACT.

LABORATORY - MEANS ANY LABORATORY DESIGNATED BY THE COUNTY.

GENERAL NOTES

UNSUITABLE SUBGRADE MATERIAL

WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO THE DEPTH DETERMINED BY THE ENGINEER AND REPLACED IN PLACE WITH SUITABLE EMBANKMENT MATERIAL (204.02) REQUIRED TO REPLACE THE UNSUITABLE SUBGRADE SHALL, TO THE EXTENT POSSIBLE, EXHIBIT THE SAME PHYSICAL PROPERTIES AS THE ADJACENT SOUND SUBGRADE MATERIALS. HOWEVER, USE OF SLAG, IN ANY FORM, IS NOT PERMITTED IN CONNECTION WITH THE ABOVE WORK, AN ESTIMATED QUANTITY OF ITEM 204 - GEOTEXTILE FABRIC IS PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

REMOVAL OF UNSUITABLE SUBGRADE SHALL BE PAID UNDER ITEM 204 - EXCAVATION OF SUBGRADE. THE COST OF FURNISHING AND COMPACTING SUITABLE EMBANKMENT MATERIAL IN PLACE SHALL BE PAID FOR UNDER ITEM 204 - EMBANKMENT, AS PER PLAN AND/OR ITEM 204 - GRANULAR EMBANKMENT, AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER, ARE CARRIED TO THE GENERAL SUMMARY FOR THIS WORK AND PAYMENT IS INCLUDED IN THE CONTRACT UNIT-PRICE BID FOR:

| | |
|---|-------|
| ITEM 204 - EXCAVATION OF SUBGRADE | XX CY |
| ITEM 204 - EMBANKMENT, AS PER PLAN | XX CY |
| ITEM 204 - GRANULAR EMBANKMENT, AS PER PLAN | XX CY |
| ITEM 204 - GEOTEXTILE FABRIC | XX SY |

ITEM 203 - EMBANKMENT, AS PER PLAN
 ITEM 204 - EMBANKMENT, AS PER PLAN
 ITEM 204 - GRANULAR EMBANKMENT, AS PER PLAN

USE OF SLAG, IN ANY FORM, IS NOT PERMITTED.

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 608, THE FOLLOWING SHALL APPLY:

THE CLASS OR USE OF OR CLASS OF 1" CONCRETE FOR SIDEWALK (608) SHALL BE AS SHOWN ON THE ADDENDUMS TO ITEM 499 CONCRETE - GENERAL, AS CONTAINED IN THE SECTION 400 PROPOSAL NOTES OF THE CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET.

ALL CONCRETE WALK SHALL BE A MINIMUM OF 4" THICK AND HAVE A 2" COMPACTED REINFORCING BED WHICH MEETS THE REQUIREMENTS OF 705.10 (1) CRUSHED STONE, WHERE THE WALK CROSSES A FLEXIBLE DRIVEWAY, THICKNESS SHALL BE INCREASED PER CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING BP-4-IC. COST FOR FURNISHING AND PLACING THE 2" COMPACTED SCREENINGS BED AND FOR THICKENING AT FLEXIBLE DRIVES PER THE BP-4-IC CONSTRUCTION DRAWING SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK.

PER 608.03(C), IT IS REQUIRED THAT 1/2" INCH THICK EXPANSION JOINT MATERIAL (705.03) BE INSTALLED BETWEEN THE WALK AND THE BACK OF CURB OR ANY OTHER FIXED OBJECT. IN ADDITION TO THE LOCATIONS SPECIFIED UNDER 608.03(C), TRANSVERSE EXPANSION JOINTS SHALL BE CONSIDERED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET (705.03) SHALL BE PLACED BY THE ENGINEER. THE EXPANSION JOINT FOR THE FULL DEPTH/WIDTH OF THE CONCRETE SHALL BE FULLY NORMAL TO GRADE. THE TOP 1/2" INCH OF THE EXPANSION JOINT BE PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH 705.04 JOINT SEALER.

UNLESS OTHERWISE REQUIRED BY MUNICIPAL STANDARDS/ORDINANCES, THE FINAL SURFACE SHALL BE TEXTURED BY USE OF AN ACCEPTED BROOM SO AS TO PROVIDE A UNIFORM, GRITTY, TRANSVERSE TEXTURE, AFTER WHICH, THE CONTRACTOR IS REQUIRED TO RETRACE THE PREVIOUSLY FORMED JOINTS AND OUTSIDE EDGES OF THE WALK.

FINAL FINISH SHALL BE IN ACCORDANCE WITH THE APPLICABLE MUNICIPAL STANDARDS/ORDINANCES.

THE COST OF THE MATERIAL AND LABOR ASSOCIATED WITH THE ABOVE WORK IS INCLUDED IN THE CONTRACT UNIT-PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER PLAN.

ROADWAY

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM

PRIOR TO THE COMMENCEMENT OF THE WORK, THE ENGINEER SHALL DETERMINE WHICH EXISTING MAILBOX AND SUPPORT SYSTEMS WILL REQUIRE TEMPORARY RELOCATION AS A RESULT OF THE WORK.

WHEN THE ENGINEER DETERMINES THAT AN EXISTING MAILBOX AND/OR SUPPORT SYSTEM REQUIRING TEMPORARY RELOCATION PER 107.10 IS A POTENTIAL SAFETY HAZARD OR CANNOT REASONABLY BE TEMPORARILY RELOCATED, THE ENGINEER SHALL DIRECT THE CONTRACTOR TO INSTALL A NEW MAILBOX AND/OR SUPPORT SYSTEM IN A TEMPORARY LOCATION AND TO SUBSEQUENTLY REMOVE AND DISPOSE OF THE EXISTING MAILBOX AND/OR SUPPORT SYSTEM. AT LEAST TWO (2) WEEKS IN ADVANCE OF THE REMOVAL, THE ENGINEER SHALL GIVE WRITTEN NOTICE TO THE OWNER OF THE OWNER'S OPTION TO REMOVE THE EXISTING MAILBOX AND/OR SUPPORT SYSTEM FOR SALVAGE OR TO PROVIDE A NEW MAILBOX IF HE/SHE SO CHOOSES.

THE FOLLOWING CONTINGENCY QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

| | |
|---|---------|
| ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE | -- EACH |
| ITEM SPECIAL - MAILBOX | -- EACH |

PAYMENT FOR A MAILBOX SUPPORT SYSTEM SHALL INCLUDE ALL WORK AND MATERIALS NECESSARY FOR THE CONTRACTOR OR OWNER SUPPLIED MAILBOX AND FOR SUBSEQUENTLY RE-ERECTING THE MAILBOX AND SUPPORT SYSTEM IN ITS PERMANENT LOCATION; ALL TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR SUPPLIED MAILBOXES AND MAILBOX SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-7C.

PRIOR TO THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER REGARDING THE SPECIFIC MAIL DELIVERY/MAILBOX RELOCATION REQUIREMENTS FOR THE PROJECT AND BE PREPARED TO DISCUSS THEIR RESPONSIBILITIES IN THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POSTMASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PER 107.10, NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR REMOVING, TEMPORARILY RELOCATING OR PERMANENTLY RE-ERECTING EXISTING MAILBOXES AND MAILBOX SUPPORT SYSTEMS.

LOCATION OF GUARDRAIL

THE LOCATION OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, IS SUBJECT TO ADJUSTMENT BY THE ENGINEER TO ASSURE THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

ITEM 605 - ANCHOR ASSEMBLY, MISS TYPE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.081.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 605, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, AND FINISHING AND PAINTING. THIS BIDDING IS FOR ANCHOR ASSEMBLY NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DAMAGE TO GEOFOAM SHALL BE CORRECTED AS FOLLOWS:
SIGHT DAMAGE (K O.P. CUT FT) WITH NO LINEAR DIMENSION GREATER THAN 1 FOOT MAY BE LEFT IN PLACE AS IS.

MODERATE DAMAGE (K 0.35 CU FEET) WITH NO LINEAR DIMENSION GREATER THAN 1 FOOT SHALL BE FILLED IN WITH SAND.
GEOFOAM BLOCKS WITH EXCESSIVE DAMAGE (I.E. EXCEEDING THE MODERATE CATEGORY) SHALL BE REPLACED WITH GEOFOAM BLOCKS WHICH MEET THE DAMAGE CRITERIA. GEOFOAM BLOCKS NOT MEETING THE CRITERIA MAY BE CUT TO ELIMINATE THE EXCESSIVE DAMAGE AND THE REMAINING UNDAMAGED PORTION OF THE BLOCK MAY BE USED WITHIN THE FILL, PROVIDED THE UNDAMAGED PORTION OF THE BLOCK MEETS ALL OTHER REQUIREMENTS.

PLACEMENT:
THE SURFACE OF A LAYER OF GEOFOAM BLOCKS TO RECEIVE ADDITIONAL GEOFOAM BLOCKS SHALL BE CONSTRUCTED WITH A VARIATION IN SURFACE TOLERANCE OF NO MORE THAN 1/2" IN ANY 10 FOOT INTERVAL. ALL BLOCKS SHALL BE ACCURATELY FIT RELATIVE TO ADJACENT JOINTS. NO GAPS GREATER THAN 1/4" WILL BE ALLOWED ON VERTICAL JOINTS. THE FINISHED SURFACE OF THE GEOFOAM FILL BENEATH PAVEMENT SECTIONS SHALL BE CONSTRUCTED TO WITHIN THE TOLERANCE OF ZERO MINUS 2.5" OF THE INDICATED GRADE.

BLOCKS PLACED IN A ROW IN A PARTICULAR LAYER SHALL BE OFFSET 2 FEET RELATIVE TO BLOCKS PLACED IN ADJACENT ROWS OF THE SAME LAYER. IN ORDER TO AVOID CONTINUOUS JOINTS, EACH SUBSEQUENT LAYER OF BLOCKS SHALL BE ROTATED ON THE HORIZONTAL PLANE 90 DEGREES FROM THE DIRECTION OF PLACEMENT OF THE PREVIOUS LAYER.

THE LONGITUDINAL AXES OF THE UPPERMOST LAYER OF BLOCKS MUST BE PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE ROAD ALIGNMENT.

CONNECTOR PLATES SHALL BE PLACED BETWEEN HORIZONTAL LAYERS OF BLOCKS. A MINIMUM OF TWO CONNECTOR PLATES SHALL BE USED BETWEEN BLOCKS.

CONNECTORS SHALL BE GALVANIZED STEEL OR STAINLESS STEEL TWO SIDED MULTI-BARRED CONNECTORS. EACH CONNECTOR SHALL HAVE A LATERAL HOLDING STRENGTH OF AT LEAST 60 LBS. PROVIDE A SIGNED/NOTARIZED CERTIFICATION FROM THE MANUFACTURER THAT THE CONNECTOR PLATES MEET MATERIAL, DESIGN AND STRENGTH REQUIREMENTS OF THESE PLANS.

BLOCKS SHALL BE CUT USING A SAW OR HOT WIRE.

NO VEHICLE OR CONSTRUCTION EQUIPMENT SHALL TRAVERSE DIRECTLY ON THE BLOCKS OR ON ANY SEPARATION MATERIAL PLACED BETWEEN THE EPS BLOCKS. THE PAVEMENT SYSTEM SOIL FOR THE PAVEMENT SYSTEM SHALL BE PUSHED ONTO THE EPS BLOCKS OR SEPARATION LAYER USING APPROPRIATE EQUIPMENT. A MINIMUM OF 12 INCHES OF FILL SHALL COVER THE TOP OF THE GEOFOAM BLOCK OR SEPARATION LAYER BEFORE COMPACTION COMMENCES. THE CONTRACTOR'S EQUIPMENT USED DURING COMPACTION SHALL NOT PLACE A PRESSURE GREATER THAN 18 PSI ON THE GEOFOAM BLOCKS AT ANY TIME DURING CONSTRUCTION. ANY DAMAGE TO THE GEOFOAM BLOCKS RESULTING FROM THE CONTRACTOR'S VEHICLES, EQUIPMENT, OR OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR.

PAYMENT

PAYMENT FOR THIS ITEM OF WORK SHALL BE PAID FOR BY THE UNIT PRICE BID PER CUBIC YARD OF ITEM SPECIAL - ROADWAY MISC.: EPS GEOFOAM FILL, WHICH PRICE AND PAYMENT INCLUDE ALL MATERIALS, SITE PREPARATION (EXCLUDING EXCAVATION), GRANULAR BASE, GEOMEMBRANE WRAP, TOOLS, EQUIPMENT, AND LABOR TO COMPLETE THIS ITEM OF WORK IN PLACE.

ROADWAY (CONT.)

ITEM 200 - ROADWAY MISC.: EPS GEOFOAM FILL

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND PLACING EPS GEOFOAM CONFORMING TO ASTM D887 TYPE EPS 25 GEOFOAM AND ASTM C-578 TYPE IX. THE MATERIAL SHALL HAVE A MINIMUM DENSITY OF 1.40 POUNDS PER CUBIC FOOT, AND A COMPRESSIVE RESISTANCE OF 10.5 PSI AT 1% STRAIN DEFORMATION.

ALL EPS GEOFOAM BLOCKS SHALL BE TREATED BY THE MANUFACTURER WITH A TESTED AND PROVEN TERMITES TREATMENT FOR BELOW GRADE APPLICATIONS. THE TREATMENT SHALL BE EPA REGISTERED. MEET REQUIREMENTS OF ICC ES AC208, AND BE RECOGNIZED IN AN ICC ES REPORT.

PRIOR TO ORDERING THE MATERIAL FOR THIS ITEM OF WORK, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH THE FOLLOWING ITEMS:

-EPS GEOFOAM MANUFACTURERS PRODUCT LITERATURE AND TECH DATA INCLUDING PHYSICAL PROPERTIES IN COMPLIANCE WITH ASTM D 887 TYPE SPECIFIED AND ASTM C 578 TYPE SPECIFIED.

-SUMMARY OF TEST COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.

-PRODUCT CERTIFICATE SHOWING EVIDENCE OF THIRD PARTY QUALITY CONTROL.

A SIGNED/NOTARIZED CERTIFICATION FROM THE MANUFACTURER THAT THEIR EPS GEOFOAM MATERIAL MEETS THE PLAN REQUIREMENTS, SHOP DRAWINGS SHOWING BLOCK THICKNESS, WIDTH, LENGTH, AND LAYING PATTERN OR SCHEDULE.

A GEOMEMBRANE SHALL BE PLACED ON THE TOP AND SIDES OF THE GEOFOAM FILL. THE MATERIAL SHALL BE TRI-POLYMER CONSISTENT WITH POLYVINYL CHLORIDE, ETHYLENE INTERPOLYMER ALLOY, AND A POLYURETHANE OR A COMPARABLE POLYMER COMBINATION. THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

-THICKNESS: MIN. 28 MILS (ASTM D 751)

-UNLEADED GASOLINE VAPOR MAXIMUM 0.40 TRANSMISSION RATE, OZ. PER SQUARE PER 24 HOURS (ASTM D 914)

-GRAB TENSILE STRENGTH: MIN. 600 LBS. BOTH MACHINE AND CROSS DIRECTION (1" GRIP 4" x 6" SAMPLE ASTM D 571)

-ELONGATION AT BREAK: 20% MIN. (ASTM D 571)

(GRAB TENSILE x PERCENT ELONGATION)

-PUNCTURE RESISTANCE: 800 LB. MIN. (ASTM D 751 BALL TIP)

-COLD CRACK: PASS -30° FAHRENHEIT (ASTM D 2136 1" MANDREL, 4 HR)

-FACTORY SEAMS: 2 INCH MIN. BONDED WIDTH

-SHEAR: 350 LBS. MIN. (ASTM D 751)

A SIGNED/NOTARIZED CERTIFICATION OF COMPLIANCE SHALL BE FURNISHED BY THE MANUFACTURER STATING THE SELECTED GEOMEMBRANE HAS BEEN TESTED AND MEETS THE ABOVE REQUIREMENTS. JOINTS IN THE GEOMEMBRANE WRAP SHALL BE LAPPED A MINIMUM OF 18 INCHES.

THE GEOFOAM FILL SHALL BE PLACED ON A GRANULAR BASE OF GRANULAR MATERIAL CONFORMING TO SIZE NO. 3 OF TABLE 705.00-1 OF THE CBS. THE GRANULAR BASE SHALL ALSO BE PLACED ALONG THE SIDES OF THE GEOFOAM FILL THAT ARE IN CONTACT WITH SOIL.

CARE SHALL BE TAKEN TO PROTECT THE GEOFOAM BLOCKS FROM EXPOSURE TO OIL, GREASE, SOLVENT, NAPHTHA, FUEL OIL, MINERAL OIL, TURBENTINE, OR ANY OTHER SOLVENT. THE BLOCKS SHALL ALSO BE PROTECTED FROM EXPOSURE TO ANY HEAT SOURCE WHICH WOULD REACH ITS DEGREE (F). GEOFOAM SHALL BE STORED ABOVE GROUND, AND PROTECTED FROM MOISTURE AND SUNLIGHT PRIOR TO INSTALLATION.

GENERAL NOTES

ALL EXISTING CASTINGS FOR STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED TO GRADE SHALL BE FIELD CHECKED AT THE TIME OF CONSTRUCTION AND MARKED SUITABLE FOR SALVAGE AND REUSE OR REPAIR PLAN, AS DIRECTED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, REPLACEMENT CASTINGS ARE PAID UNDER ITEM SPECIAL - MISCELLANEOUS METAL.

THE FOLLOWING GUIDELINES WERE USED TO DETERMINE THE SPECIFIC PLAN LOCATIONS/QUANTITIES OF THE ITEM 611 ADJUST TO GRADE OR RECONSTRUCT TO GRADE WORK:

"ADJUST TO GRADE, AS PER PLAN" INCLUDES ALL WORK SPECIFIED IN 611.10 (D) AS NECESSARY TO RAISE THE EXISTING/NEW CASTING NO MORE THAN ONE (1) FOOT FROM ITS EXISTING ELEVATION OR TO LOWER THE EXISTING/NEW CASTING NO MORE THAN SIX (6) INCHES FROM ITS EXISTING ELEVATION. IN ADDITION, THIS ITEM INCLUDES ANY SUPPORTING WALL REPAIR WORK NECESSARY, UP TO SIX (6) INCHES BELOW THE TOP OF THE EXISTING SUPPORTING WALL.

PAYMENT WILL BE MADE UNDER THE APPROPRIATE STRUCTURE ITEM 611 ADJUSTED TO GRADE, AS PER PLAN.

"RECONSTRUCT TO GRADE, AS PER PLAN" INCLUDES ALL WORK SPECIFIED IN 611.10 (C) AND ALSO INCLUDES EXISTING/NEW CASTINGS RAISED MORE THAN ONE (1) FOOT FROM THEIR EXISTING ELEVATION OR LOWERED MORE THAN SIX (6) INCHES FROM THEIR EXISTING ELEVATION.

THE WORK LIMIT SHALL BE SPECIFIED BY THE ENGINEER AND PAYMENT WILL BE MADE UNDER THE APPROPRIATE STRUCTURE ITEM 611 RECONSTRUCTED TO GRADE, AS PER PLAN.

BASED ON THE ABOVE GUIDELINES, THE ENGINEER WILL EXAMINE EACH STRUCTURE TO ASSURE THAT THE APPROPRIATE ITEM 611 ADJUST TO GRADE OR RECONSTRUCT TO GRADE WORK IS PERFORMED.

"RECONSTRUCT TO GRADE, AS PER PLAN" WORK SHALL NOT BE PERFORMED UNLESS SPECIFICALLY INDICATED IN THE PLANS OR OTHERWISE ORDERED BY THE ENGINEER. ANY SUCH WORK MADE NECESSARY DUE TO THE CONTRACTOR'S NEGLIGENCE OR OPERATIONS, AS DETERMINED BY THE ENGINEER, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

WATER QUALITY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIPS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 670 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE SP-LO EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTERS FOR POST CONSTRUCTION STORM WATER TREATMENT. EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER IS TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

DRAINAGE

ITEM 611 - STRUCTURES ADJUSTED (RECONSTRUCTED) TO GRADE, AS PER PLAN

611.0 DRAINAGE STRUCTURE CONSTRUCTION, EXCEPT AS NOTED BELOW FOR EXISTING PRECAST SANITARY SEWER MANHOLES, STRUCTURES SHALL BE ADJUSTED OR RECONSTRUCTED TO GRADE USING CLAY BRICKS (704.0), CLASS OC 1 CONCRETE (611) AND/OR CONCRETE MORTAR (602), AS NECESSARY, AND/OR RESETTING THE EXISTING FRAME IN A BED OF CONCRETE MORTAR MANHOLES, NO 1 CONCRETE, EXCEPT FOR EXISTING PRECAST SANITARY MANHOLES, NO GRADE RINGS OR METAL ADJUSTING RINGS (CASTINGS) ARE PERMITTED. MAXIMUM CONCRETE MORTAR THICKNESS IS 1-1/2".

EXISTING SANITARY SEWER MANHOLES SHALL BE RECONSTRUCTED TO GRADE USING A FOUR (4) INCH MINIMUM TO THREVE (3) INCH MAXIMUM DEPTH OF EXISTING AND/OR PROPOSED GRADE. MANHOLES SHALL BE IN LIEU OF BRICK OR CLASS OC 1 CONCRETE. PROVIDE MANHOLE FRAME IN A FINISHED MORTAR BED OF THE CURB MORTAR JOINT. WHERE NECESSARY, RECONSTRUCTION WORK SHALL BE ACCOMPLISHED BY THE REMOVAL AND/OR ADDITION OF FOUR (4) INCH DIAMETER PRECAST MANHOLE RISER SECTIONS (706.13). IN ADDITION, FOOT DIAMETER PRECAST MANHOLE RISER SECTIONS (706.13), IN ADDITION, UNIFORM STANDARDS FOR SEWERAGE SHALL BE INSTALLED AFTER THE EXISTING PRECAST SANITARY SEWER MANHOLES HAVE BEEN RECONSTRUCTED TO GRADE.

ITEM 611 - STRUCTURE ADJUST TO GRADE OR RECONSTRUCT TO GRADE WORK SHALL, WHERE REQUIRED, INCLUDE THE REMOVAL AND REPLACEMENT OF ANY EXISTING CONCRETE BLOCKOUT CURB AND/OR PAVEMENT USING ANOTHER FAST SET (CLASS OC F5) CONCRETE PER 489.05 OF GENERAL AND THE "MODIFICATIONS TO ITEM 489 CONCRETE" AS CONTAINED IN THE SECTION 400 PROJECT NOTES TO FACILITATE REMOVAL. THE BLOCKOUT SPECIFICATIONS SHALL BE SAVED FULL DEPTH (PER 255.03) ALONG THE LIMITS OF THEIR REMOVAL UNLESS OTHERWISE DESIGNATED/DIRECTED BY THE ENGINEER. UNLESS OTHERWISE APPROVED/DIRECTED BY THE ENGINEER, BLOCKOUT PAVEMENT AND LOAD TRANSFER DEVICES SHALL BE REPLACED/INSTALLED IN ACCORDANCE WITH THE CUYAHOGA COUNTY ENGINEERING DEPARTMENT DRAWINGS BP-27C (MANHOLES) AND CB-3C OR APPROVED BY THE ENGINEER. REPLACE EXCAVATED SUBGRADE MATERIALS BELOW THE PROPOSED BLOCKOUT WITH ITEM 611-LOW STRENGTH MORTAR BACKFILL MATERIAL TYPE II EXCEPT THE USE OF FOUNDRY SAND IS STRICTLY PROHIBITED. ALL COSTS ASSOCIATED WITH THE BLOCKOUT REMOVAL/REPLACEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE PER EACH BID ITEMS.

EROSION CONTROL

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

WHEN THE ABOVE ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ITEM 659, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL APPLY UNLESS MODIFIED HEREIN.

659.01 DESCRIPTION. THE COST FOR ANY INCIDENTAL GRADING REQUIRED TO PROPERLY PLACE THE TOPSOIL, SEEDING AND MULCHING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 - SEEDING AND MULCHING, AS PER PLAN.

659.02 SEEDS. UNLESS OTHERWISE DIRECTED/APPROVED BY THE ENGINEER, HIGH QUALITY GERMINATION RATES ARE REQUIRED.

659.08 NATIVE GRASSES AND WILDELOWERS. UNLESS OTHERWISE DIRECTED/APPROVED BY THE ENGINEER, THE FOLLOWING SEED MIXTURE CLASS(S) SHALL BE USED: CLASS 1

659.10 SITE PREPARATION. IN ADDITION TO "AREAS IN FRONT OF RESIDENCES, COMMERCIAL PROPERTIES, ETC." REFERRED TO IN 659.10(A), THE SPREADER/PLANK-LIKE AREAS AS EXTENDED BY THE ENGINEER TO BELIEVE ALL STONES, LINTS OR GREATER BY APPROVED METHODS/EQUIPMENT SUCH AS "ROCK HOUNDING", RAKING, ETC.

659.11 PLACING TOPSOIL. TOPSOIL SHALL BE PLACED AND SPREAD TO A MINIMUM COMPACTED DEPTH OF TWO (2) INCHES. THE FINISHED TOPSOIL SURFACES SHALL BE SEDED AND MULCHED WITHIN SEVENTY-TWO (72) HOURS OF THEIR ACCEPTED COMPLETION.

659.13 MULCHING OPERATIONS. UNLESS OTHERWISE DIRECTED OR APPROVED BY THE ENGINEER, STRAW MULCH (PER 659.14) OR COMPOST MULCH (PER 659.16) SHALL BE USED.

659.17 WATERING. IN ADDITION TO THE REQUIREMENTS OF 659.17, THE SEED BED SHALL BE KEPT ACCEPTABLY MOIST UNTIL THE SEED HAS GERMINATED. ALL AT THE DIRECTION OR APPROVAL OF THE ENGINEER.

659.23 PERFORMANCE. THE COUNTY WILL INSPECT ALL SEEDED AREAS NO EARLIER THAN ONE (1) MONTH AND NO LATER THAN NINE (9) MONTHS AFTER ALL COMPLETED SEEDING; ALL AT THE DISCRETION/DETERMINATION OF THE ENGINEER.

659.24 METHOD OF MEASUREMENT. SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENTS OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 659 - SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

659.25 BASIS OF PAYMENT. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR THE ACTUAL COMPLETED AND ACCEPTED QUANTITIES OF:

THE QUANTITY FOR ITEM 659 - SEEDING AND MULCHING, AS PER PLAN IS CALCULATED ON THE CROSS SECTION SHEETS AND ELSEWHERE ON THE PLANS AND CARRIED TO THE GENERAL SUMMARY.

ITEM 632 - EROSION CONTROL

THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED FOR TEMPORARY SEDIMENT AND EROSION CONTROL (TSEC) IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 832:

ITEM 632 - EROSION CONTROL ----- EACH

UNLESS OTHERWISE APPROVED BY THE ENGINEER, DAMAGED FILTER FABRIC FENCE SHALL BE REPLACED IN LIEU OF ANY/ALL METHODS OF REPAIR.

PAVEMENT

ITEMS 302.441, TYPE 1, (440), 6070-23M-441, TYPE 2, (440), 441, TYPE 1, (440), PG 642-23, AS PER PLAN

USE OF RECLAIMED ASPHALT CONCRETE PAVEMENT IS LIMITED TO A MAXIMUM OF 10% FOR SURFACE COURSES. USE OF RECLAIMED ASPHALT SHINGLES ARE NOT PERMITTED IN ANY ASPHALT CONCRETE COURSE.

THE COURSE AGGREGATE SHALL CONFORM TO 703.04 AND/OR 703.05 B, AS APPLICABLE, EXCEPT THAT GRAVEL WILL NOT BE PERMITTED, AIR-COOLED BLAST FURNACE SLAG AND STEEL SLAG ARE NOT PERMITTED AS WELL.

PRIOR TO PRODUCING THE ASPHALT CONCRETE FOR THIS CONTRACT, SUBMIT A JOB MIX FORMULA (JMF) FOR APPROVAL BY THE ENGINEER. USE A JMF THAT MEETS ALL REQUIREMENTS ESTABLISHED IN THE CONTRACT AND HAS PREVIOUSLY BEEN APPROVED FOR USE ON ODOT WORK. THERE NO PREVIOUSLY ESTABLISHED JMF IS AVAILABLE, BE REVIEWED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY PRIOR TO SUBMISSION TO THE ENGINEER. THE INDEPENDENT TESTING LABORATORY SHALL HAVE APPROPRIATELY APPROVED PERSONNEL AND TESTING EQUIPMENT PER ODOT SUPPLEMENT 1041. ALL COST ASSOCIATED WITH THE ABOVE SHALL BE INCLUDED IN THE CUBIC YARD COST OF THE ASPHALT CONCRETE BID ITEMS).

SAMPLING FOR VERIFICATION ACCEPTANCE (M03.06.A) SHALL BE PERFORMED IN ACCORDANCE WITH ODOT SUPPLEMENT 1035 FOR ALL #48 ACCEPTANCE MIXES.

UNLESS OTHERWISE DIRECTED/APPROVED BY THE ENGINEER, CONDUIT DENSITY: SURFACE COURSE AND INTERMEDIATE COURSE MATS ACCORDING TO ODOT SUPPLEMENT 1055 REGARDLESS OF THE NUMBER OF LANES OR LENGTH OF CONTINUOUS PAVING.

ITEM 304 - AGGREGATE BASE, AS PER PLAN

MATERIAL FURNISHED FOR THIS ITEM SHALL BE LIMITED TO CRUSHED CARBONATE STONE.

ITEM 609 - CURB, TYPE 4-G, AS PER PLAN

THE CLASS 0C 1" OR CLASS 0C MISC. CONCRETE SHALL CONFORM TO THE MODIFICATIONS TO ITEM 499 CONCRETE - GENERAL AS CONTAINED IN THE SECTION 400 PROPOSAL NOTES OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

ITEM 605 - 6" BASE PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, AS PER PLAN

THE FOLLOWING PIPE MATERIAL TYPES MAY BE USED FOR SIX (6) INCH PERFORATED UNDERDRAIN PIPE: 706.06, 707.31, 707.41, 707.42 PERFORATED PER 707.31 AND 707.45 (PERFORATED PER 707.31).

THE FOLLOWING SMOOTH INTERIOR-WALLED PIPE MATERIAL TYPES MAY BE USED FOR FOUR (4) INCH PERFORATED UNDERDRAIN PIPE: 706.06, 706.09, 707.41, 707.42 (PERFORATED PER 707.31) AND 707.45 (PERFORATED PER 707.31).

THE SIZE OF UNDERDRAIN PIPE SHALL NOT BE REDUCED FROM THE SIZE SPECIFIED IN THE PLANS/PROPOSAL.

GRANULAR BACKFILL MATERIAL SHALL BE LIMITED TO Limestone.

THE GEOTEXTILE FABRIC SHALL BE A NON-WOVEN OR NONFILAMENT WOVEN GEOTEXTILE FABRIC MEETING THE REQUIREMENTS OF AASHTO M 280, TABLE 1 (CLASS 3) AND TABLE 2.

WHEN ENCOUNTERED WITHIN THE PROPOSED UNDERDRAIN TRENCH EXCAVATION, THE COST FOR REMOVAL AND DISPOSAL OF EXISTING UNDERDRAIN PIPE SHALL BE INCLUDED UNDER THIS ITEM.

SEE DETAIL ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWING MD-1C.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 6" CONDUIT ITEM.

ITEM 611 - CATCH BASIN, MISC. - CUYAHOGA COUNTY 3C

THIS ITEM CONSISTS OF FURNISHING AND INSTALLING A CUYAHOGA COUNTY 3C CATCH BASIN IN ACCORDANCE WITH CUYAHOGA COUNTY STANDARD CONSTRUCTION DRAWING 05-30, COMPLETE IN PLACE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR ITEM 611 - CATCH BASIN MISCELLANEOUS AND MATERIALS NECESSARY TO COMPLETE AND FUNCTIONAL CATCH BASIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS.

DRAINAGE (CONT.)

ITEM 612 - CONDUITS, AS PER PLAN

ITEM 613 - STRUCTURES, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 611, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE FOLLOWING ADDITIONAL RESTRICTIONS APPLY TO ITEM 611 - CONDUITS, AS PER PLAN AND ITEM 613 - STRUCTURES, AS PER PLAN:

6102 (A): DO NOT USE NON-REINFORCED CONCRETE PIPE (706.01) AND VITRIFIED CLAY PIPE (706.08) FOR 15" AND 18" DIAMETER PERFORATED CONCRETE OR VITRIFIED CLAY CLASS II MINIMUM FOR PERFORATED CONCRETE ELLIPTICAL PIPE (706.04).

6102 (B): MAXIMUM ALLOWABLE SIZE FOR NON-REINFORCED CONCRETE PIPE (706.01) IS 15". USE CLASS III MINIMUM FOR REINFORCED CONCRETE ELLIPTICAL PIPE (706.04). MAXIMUM ALLOWABLE SIZE FOR VITRIFIED CLAY PIPE (706.08) IS 15".

6102 (C): USE CLASS 3 MINIMUM FOR NON-REINFORCED CONCRETE CIRCULAR PIPE (706.03) WITH A MAXIMUM ALLOWABLE SIZE OF 21". MAXIMUM ALLOWABLE SIZE FOR VITRIFIED CLAY PIPE (706.08) IS 15" AND ONLY EXTRA STRENGTH WILL BE USED.

FOR TYPE B AND TYPE C CONDUITS, FLEXIBLE PVC PIPE USED FOR MAIN LINE AND SERVICE LATERAL SEWER PIPE SHALL ALSO MEET THE REQUIREMENTS OF THE "UNIFORM" STANDARDS FOR SEWERAGE IMPROVEMENTS" AND "UNIFORM STANDARDS SEWER DETAILS" AS FOUND AT THE FOLLOWING WEBSITES:

<http://www.cuyahogacounty.gov/pub/itaworker/services/design-and-standards>

<http://www.sanitary-design.com>

STORM SEWER MANHOLES CONSTRUCTED FOR THIS PROJECT SHALL HAVE A CUYAHOGA COUNTY NO. 9 FRAME AND EITHER A NO. 28 COVER OR A NO. 37 COVER AS DETAILED ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWINGS MH-10C AND MH-10C BACKFLOW PREVENTER SHALL BE LIMITED TO FURNISHED LABORATORY STONE. ALL OTHER EMBANKMENT MATERIAL (203.02.B) FURNISHED FOR NON-STRUCTURAL BACKFILL OPERATIONS SHALL BE LIMITED TO NATURAL GRANULAR MATERIAL (203.02.H) AND RECYCLED PORTLAND CEMENT CONCRETE (RCCO). IN ADDITION TO THE REQUIREMENTS OF 703.16, THE USE OF RPPC IS SUBJECT TO THE RESTRICTIONS OF 203.03(B) AND 203.03(E).

BEDDING SHALL BE PLACED AND COMPACTED PER 6106. THE METHOD OF BEDDING SHALL BE PER 6106. AT THE DIRECTION OF THE ENGINEER AND WITH THE APPROVAL OF THE MAINTAINING AGENCY, BEDDING SHALL BE MORTAR BACKFILL (TYPE 2), FURNISHED STRUCTURAL AND NON-STRUCTURAL BACKFILL MATERIAL. SEE THE ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 2), AS PER PLAN" PROPOSAL NOTE CONTAINED IN SECTION 400 OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

FOR ALL SANITARY SEWER INSTALLATIONS UNDER PAVEMENT (MANHOLES, LATERALS, ETC.) BACKFILL MATERIAL FURNISHED FOR BEDDING AND BACKFILL OPERATIONS SHALL BE LIMITED TO ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 2), AS PER PLAN" SEE THE ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 2), AS PER PLAN" PROPOSAL NOTE CONTAINED IN SECTION 400 OF THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET".

PRECAST CONCRETE SANITARY MANHOLES FOR 42" PIPE AND SMALLER SHALL MEET THE REQUIREMENTS OF THE CURRENT "UNIFORM STANDARDS FOR SEWERAGE IMPROVEMENTS" AND "UNIFORM STANDARDS SEWER DETAILS" AS FOUND AT THE FOLLOWING WEBSITES:

<http://www.cuyahogacounty.gov/pub/itaworker/services/design-and-standards>

<http://www.sanitary-design.com>

PROVIDE 706.12 JOINTS FOR ALL CONCRETE PIPE (706.01, 706.02, 706.04 AND 706.05) AND FOR ALL PRECAST MANHOLE OR CATCH BASIN SECTIONS. PROVIDE 706.12 JOINTS FOR VITRIFIED CLAY PIPE (706.08 EXTRA STRENGTH).

DETOUR LIMITATION:

TWO-WAY TRAFFIC WITH A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 210 CONSECUTIVE CALENDAR DAYS. WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 13, LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH SECTION 160.07 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS (IN THE AMOUNT OF \$900 PER DAY) FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT, WHICH LIMIT SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE FOR THE PURPOSE OF THIS NOTE.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST 72 HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGE IN TRAFFIC PATTERN OR CLOSING ANY STREET TO TRAFFIC:

- THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS - PUBLIC INFORMATION OFFICER
- THE CUYAHOGA COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
- THE UNITED STATES POSTAL SERVICE, MIDPARK BRANCH
- THE BEREA CITY SCHOOL DISTRICT BOARD OF EDUCATION
- THE CITY OF BROOK PARK AND CITY OF MIDDLEBURG HEIGHTS POLICE, FIRE AND SERVICE DEPARTMENTS

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT AUTHORITY.

ITEM 614 - DETOUR SIGNING, AS PER PLAN

ADVANCE TRAFFIC SIGNING AND SUPPORTS, INCLUDING DETOUR SIGNING, CONSTRUCTION WORK ZONE APPROACH SIGNING, BARRICADES AND SIGNS SHOWN ON THE PLANS BEYOND THE WORK LIMITS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR, AND ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 614 - DETOUR SIGNING, AS PER PLAN.

ITEM 614 - LAW ENFORCEMENT OFFICERS (WITH PATROL CARI) FOR ASSISTANCE

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE OMITTED INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CHAS 614 AND THE OMITTED, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
 - DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN EMERGED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G. DIRECTING MOTORISTS THROUGH A RED LIGHT).
- IN ADDITION TO THE REQUIREMENT OF CHAS 614 AND THE OMITTED, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) MAY BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

ITEM 614 - MAINTAINING TRAFFIC

THE MAKING OF THIS IMPROVEMENT REQUIRES THAT THE ROAD BE CLOSED TO THROUGH TRAFFIC. DETOURS SHALL BE AS SHOWN ON SHEET NO. 13.

THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ADJUTING PROPERTY. THE CONTRACTOR SHALL MAINTAIN ADEQUATE PEDESTRIAN WALKS AT ALL INTERSECTIONS, INCLUDING ASPHALT CONCRETE WALKS, WHERE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY PLASTIC DRUMS, FLASHING ARROW BOARDS COMPLYING WITH SSB21J AND TRAFFIC SIGNS AND WORK ZONE PAVEMENT MARKINGS, AS SHOWN ON SHEET 13.

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR, EXCEPT AS NOTED BELOW.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, SUCH AS TYPE III BARRICADES, LIGHTING, FLAGGERS, AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

EXISTING TRAFFIC CONTROL DEVICES (SIGNS AND/OR TRAFFIC SIGNALS), LOCATED WITHIN THE WORK AREA, WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED, IN COMPLIANCE WITH THE MANUAL, AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF RELOCATION, IF REQUIRED, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

THE LENGTH AND DURATION OF LANE CLOSURES AND/OR TRAFFIC RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. THE INTENT IS TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614 - MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPROPRIATE MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE. THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

LEOS PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH CHAS 614-03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CARI) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CARI) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CARI) FOR ASSISTANCE - 24 HOURS.

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

PORTABLE CHANGEABLE MESSAGE SIGNS

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, TWO (2) CHANGEABLE MESSAGE SIGNS (PCMS), ON SITE, WITH A MINIMUM LEGIBILITY DISTANCE OF 475 FEET, FOR 1 MONTH.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONING DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO ODOT 614-03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS. THE PCMS SHALL BE LOCATED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM TRAFFIC.

ALL MESSAGES TO BE DISPLAYED ON THE PCMS WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE PCMS SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD.

THE PCMS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF ODOT 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND/OR THE CITY TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THE PCMS FOR THE DURATION OF PROJECT SITE SERVICE.

THE FOLLOWING QUANTITY IS PROVIDED:
ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 2 SHMT
ASSUMING 2 PCMS SIGNS FOR 1 MONTH

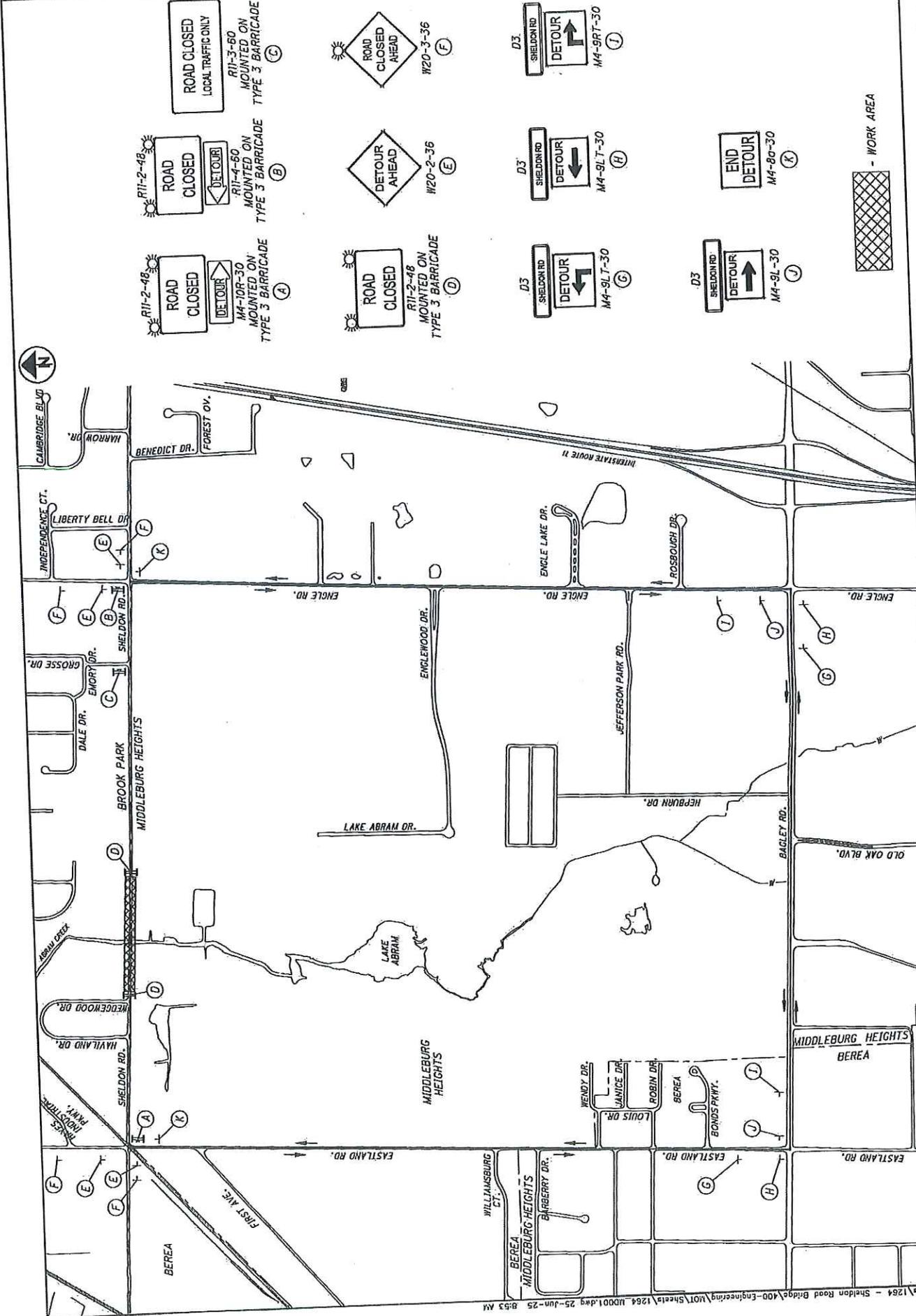
PAYMENT FOR THIS ITEM, INCLUDING, BUT NOT LIMITED TO ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN.

CALCULATED
F.T.S.
DEVELOP
PLAN

DETOUR PLAN

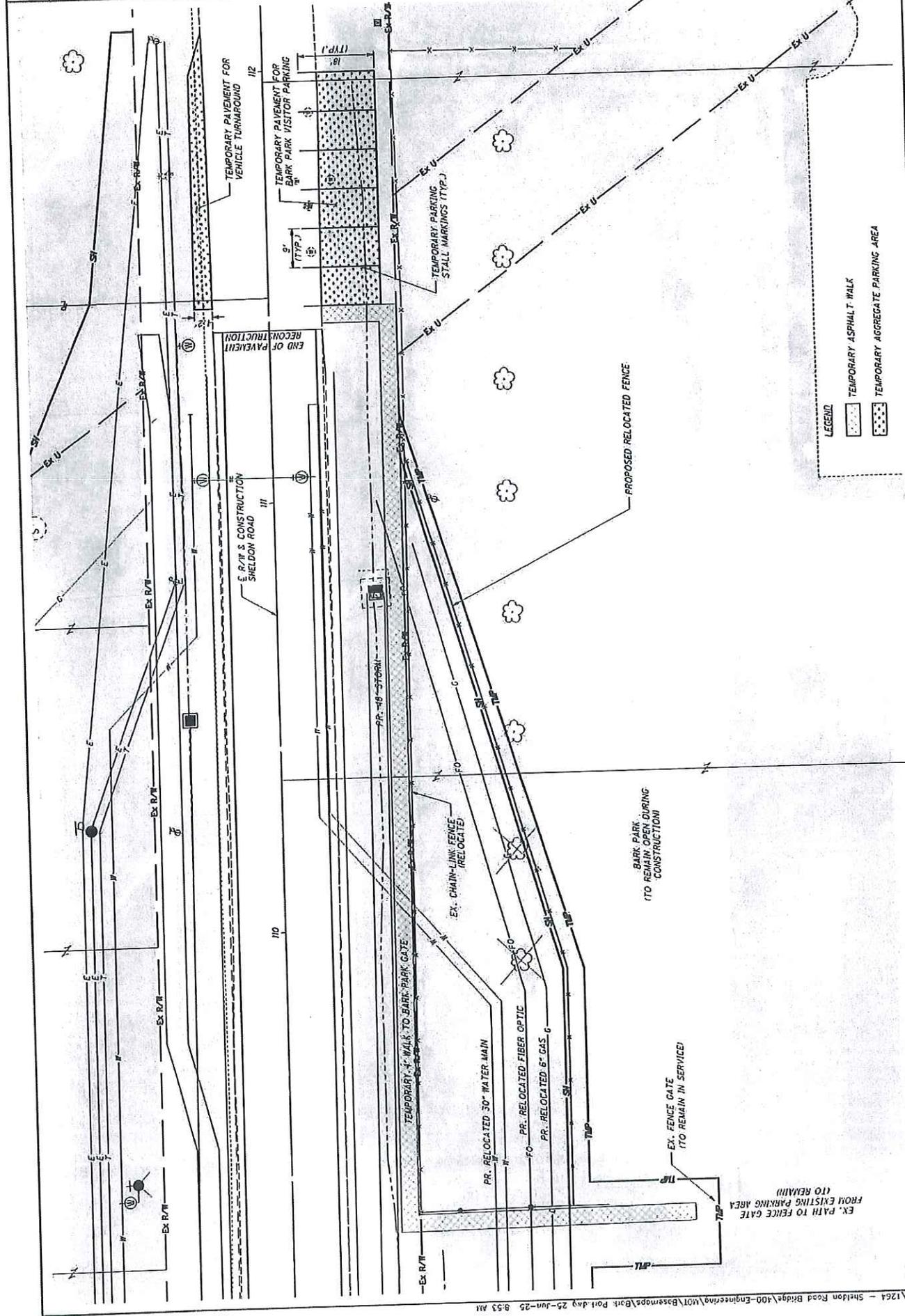
CUY-SHELDON RD.

13
53



MAINTENANCE OF TRAFFIC - BARK PARK
TEMPORARY PARKING & ACCESS

JULI
 CHECKED
 COM.
 HORIZONTAL
 SCALE 1/4" = 10'
 30'

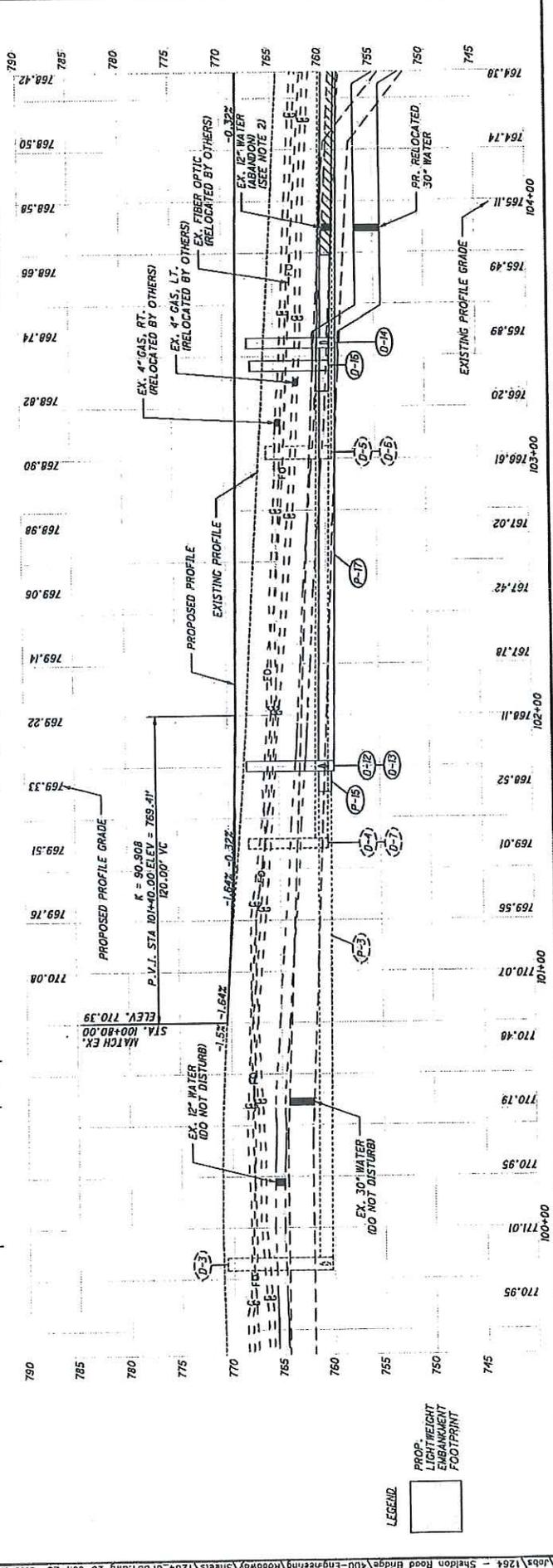
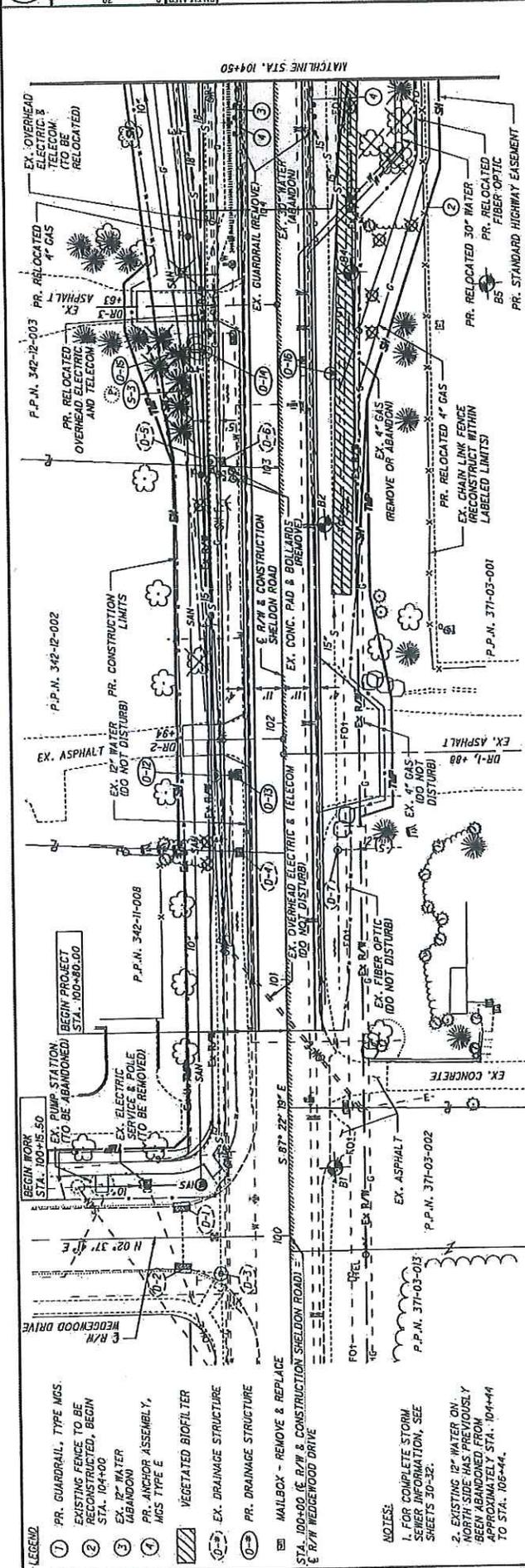


LEGEND
 TEMPORARY ASPHALT WALK
 TEMPORARY AGGREGATE PARKING AREA

BARK PARK
(TO REMAIN OPEN DURING
CONSTRUCTION)

EX. FENCE GATE
(TO REMAIN IN SERVICE)

EX. PATH TO FENCE GATE
FROM EXISTING PARKING AREA
(TO REMAIN)



LEGEND

- 1. PR. GUARDRAIL, TYPE MGS.
- 2. EXISTING FENCE TO BE RECONSTRUCTED, BEGIN STA. 104+00
- 3. EX. 12" WATER (ABANDON)
- 4. PR. ANCHOR ASSEMBLY, MGS TYPE E
- VEGETATED BIOFILTER
- EX. DRAINAGE STRUCTURE
- PR. DRAINAGE STRUCTURE
- MAILBOX - REMOVE & REPLACE

NOTES:

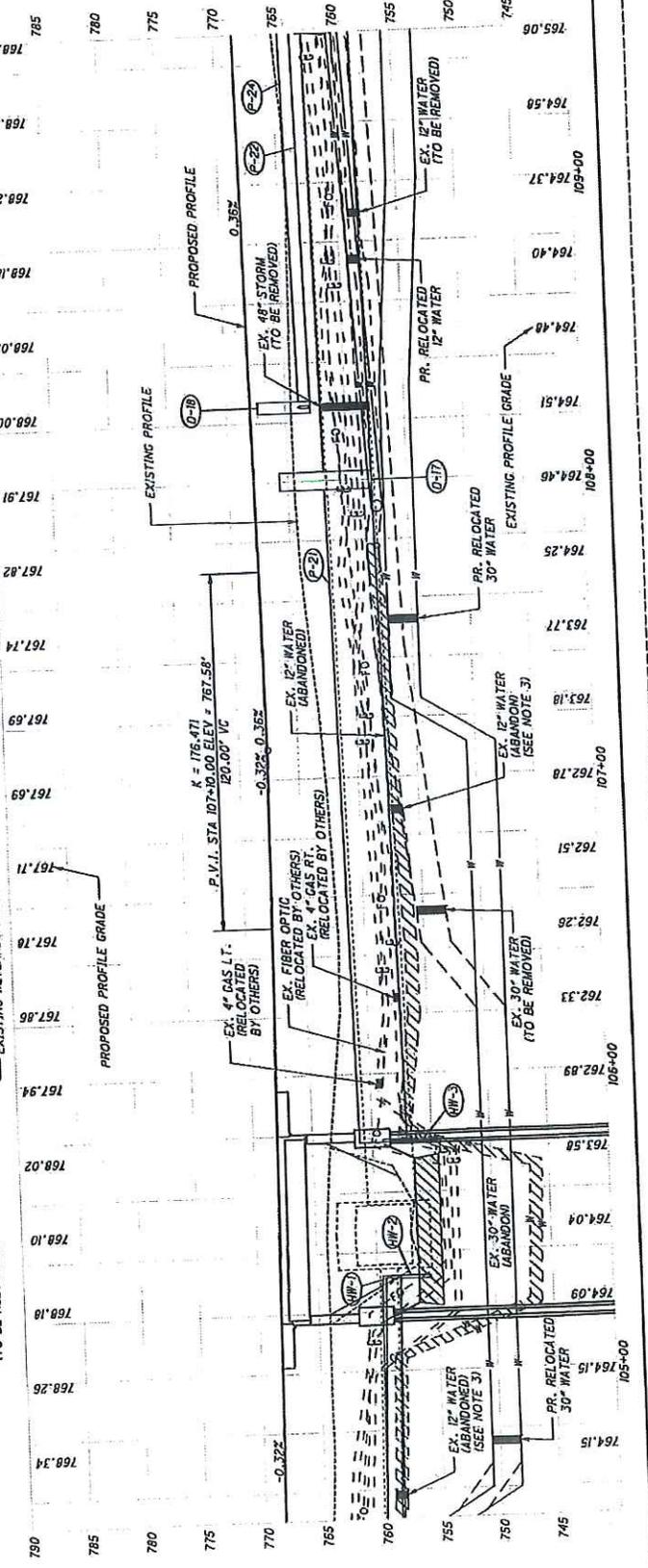
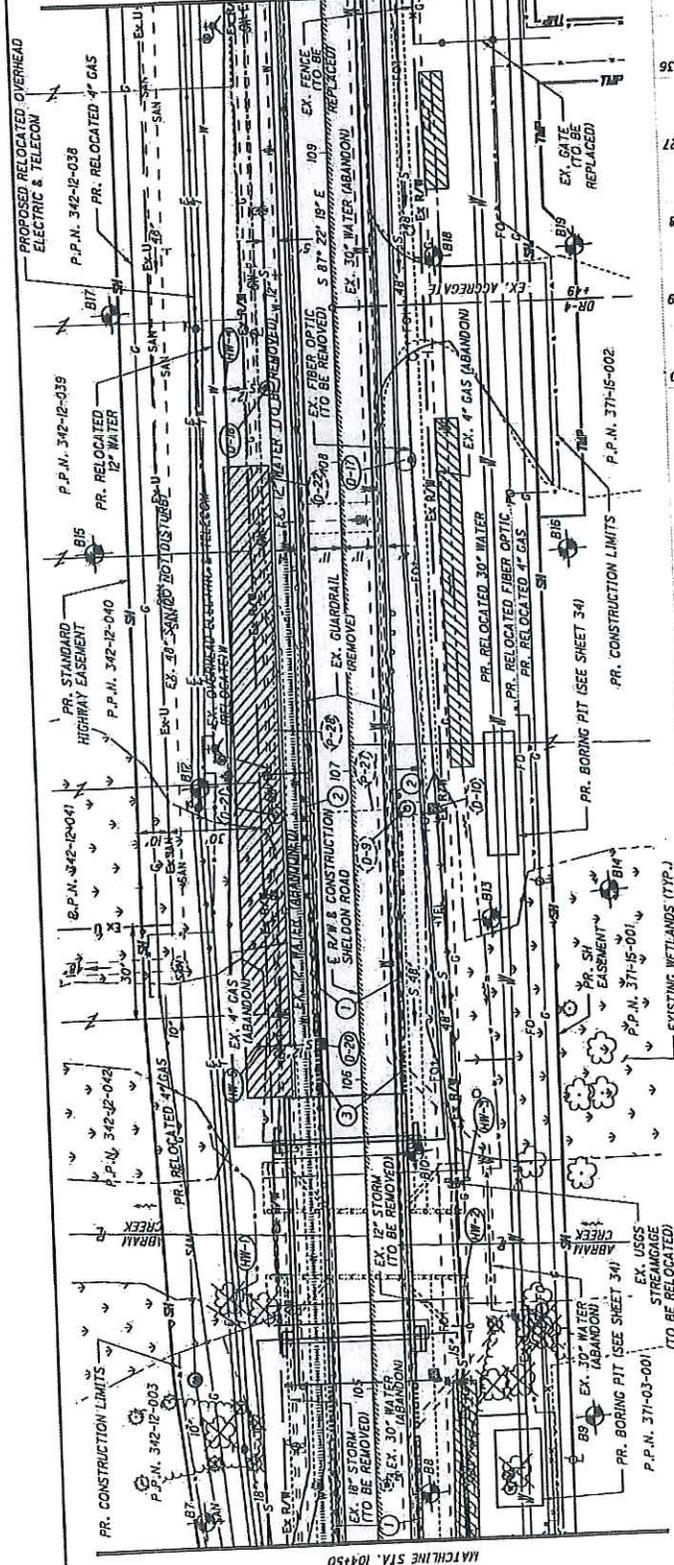
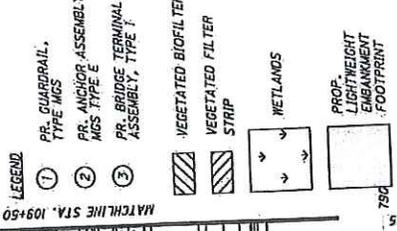
1. FOR COMPLETE STORM SEWER INFORMATION, SEE SHEETS 30-32.
2. EXISTING 12" WATER ON, BEING ABANDONED FROM APPROXIMATELY STA. 104+44 TO STA. 106+44.

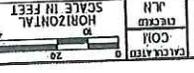
LEGEND

- PROP. LIGHT WEIGHT EMBANKMENT FOOTPRINT

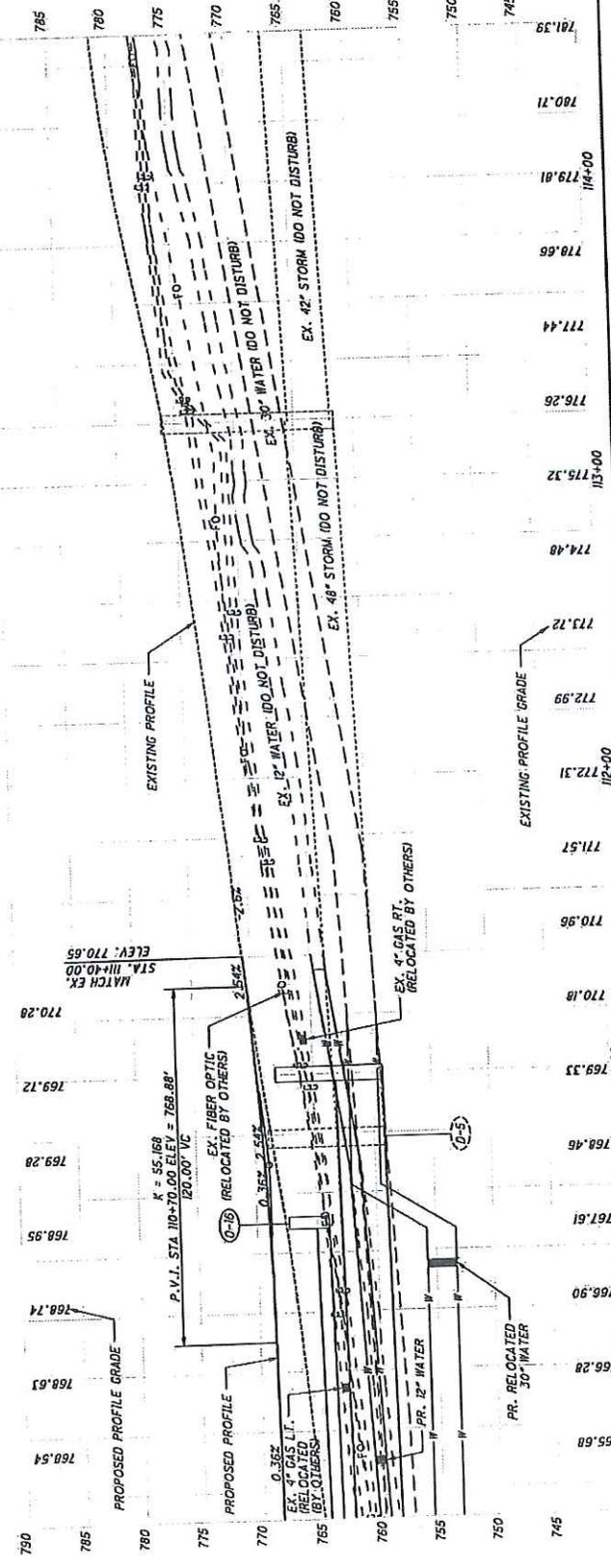
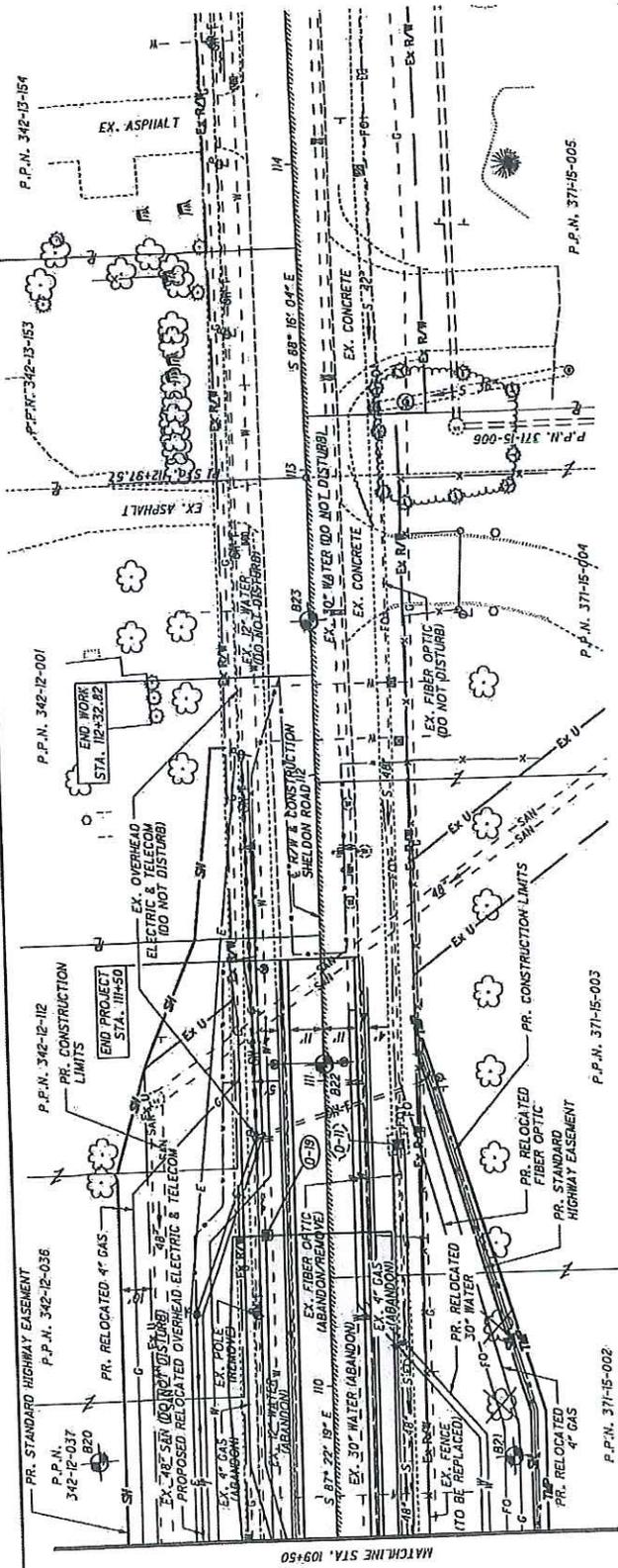


- NOTES:**
1. ALL UNDERGROUND RELOCATED UTILITIES TO BE TRENCHLESS CONSTRUCTION WITHIN ABRAM CREEK AND WETLAND LIMITS.
 2. FOR COMPLETE STORM SHEETS INFORMATION, SEE SHEETS 30-32.
 3. EXISTING 12" WATER ON NORTH SIDE HAS PREVIOUSLY BEEN ABANDONED APPROXIMATELY STA. 104+44 TO STA. 106+44.



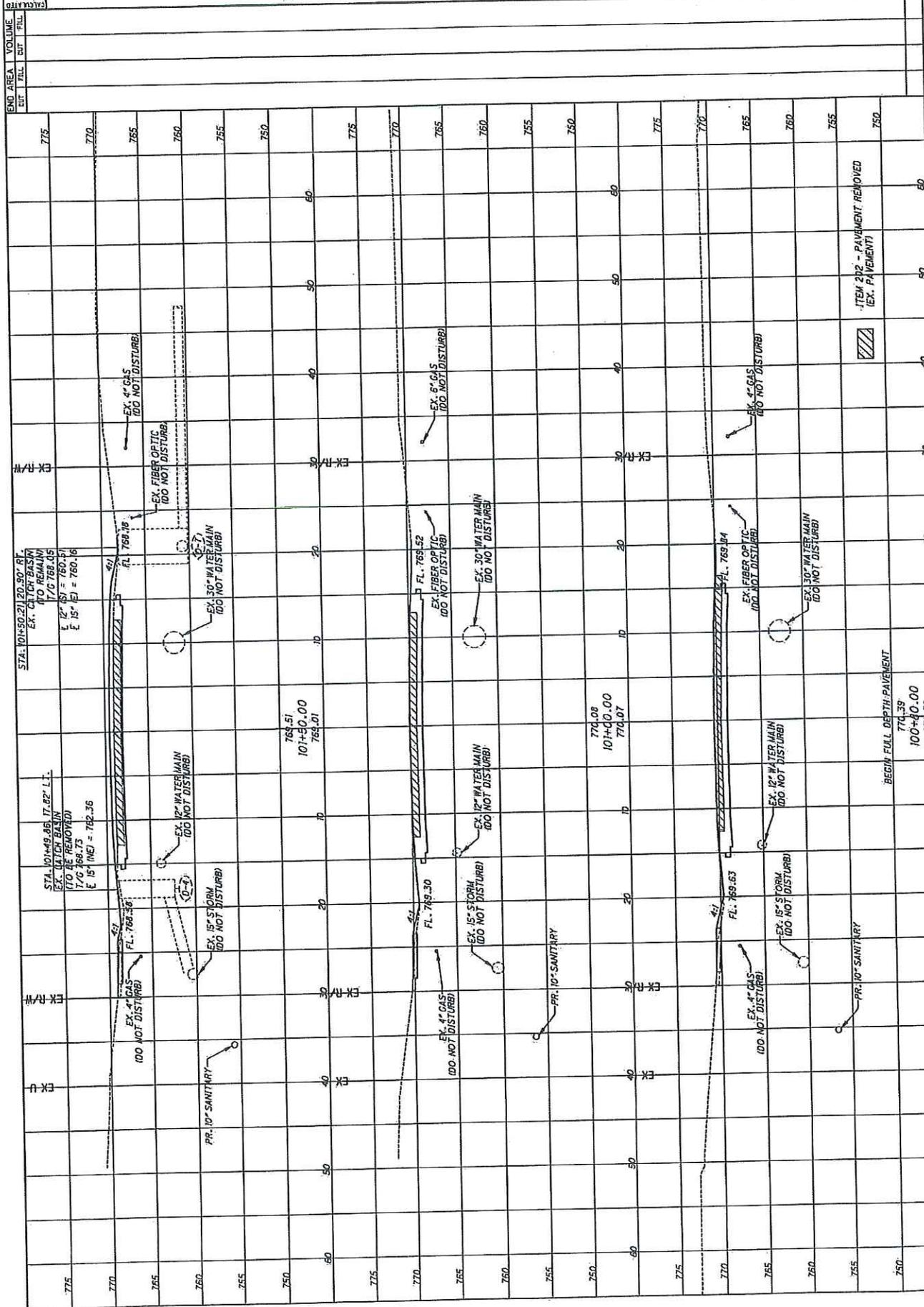


NOTES:
1. FOR COMPLETE STORM
SEWER INFORMATION, SEE
SHEETS 30-32.



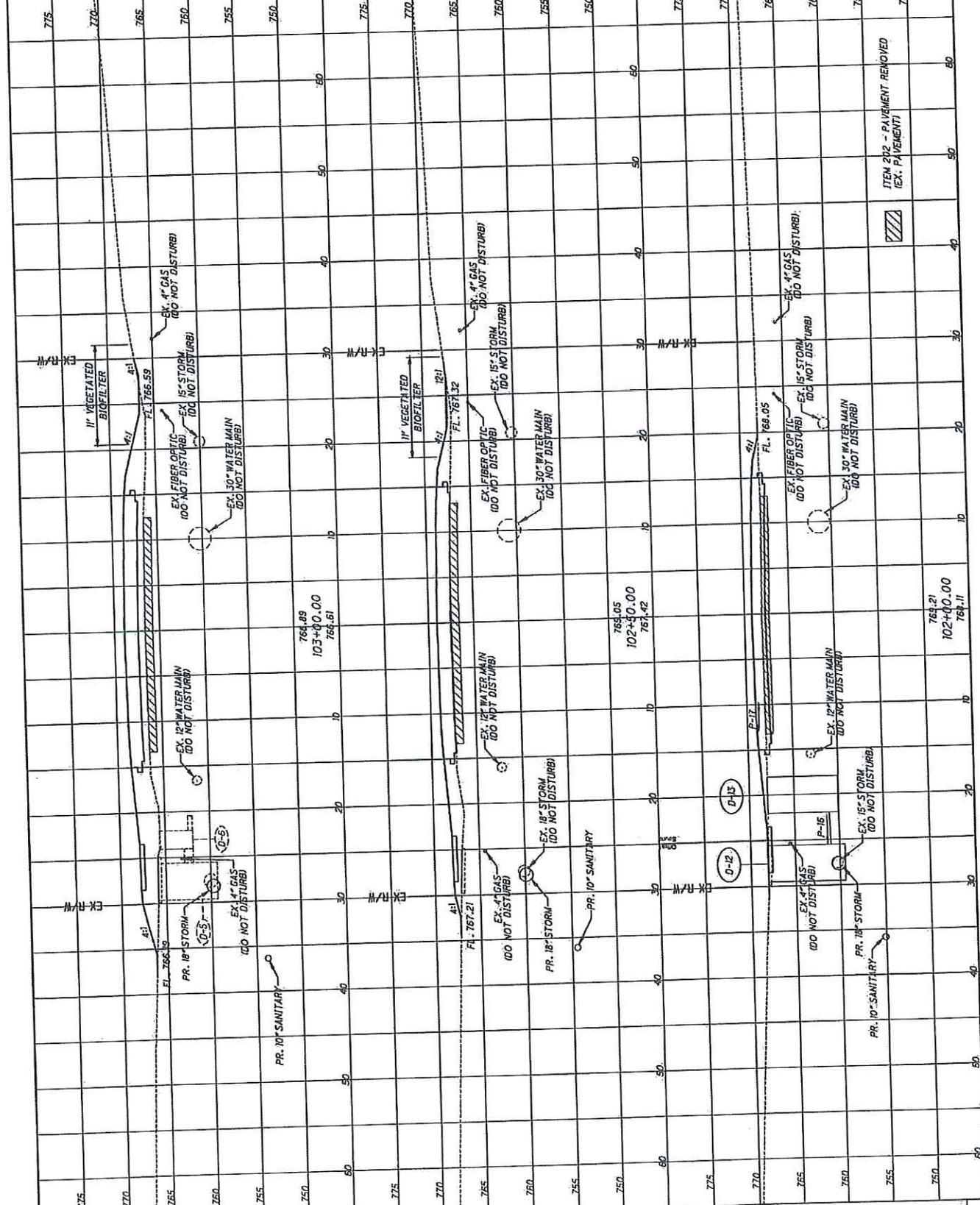
CUY-SHELDON RD.
STATION 100+80.00 TO 101+50.00

| CROSS SECTION | CROSS SECTION | | CROSS SECTION | | CROSS SECTION | | CROSS SECTION | |
|---------------|---------------|---|---------------|---|---------------|---|---------------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |



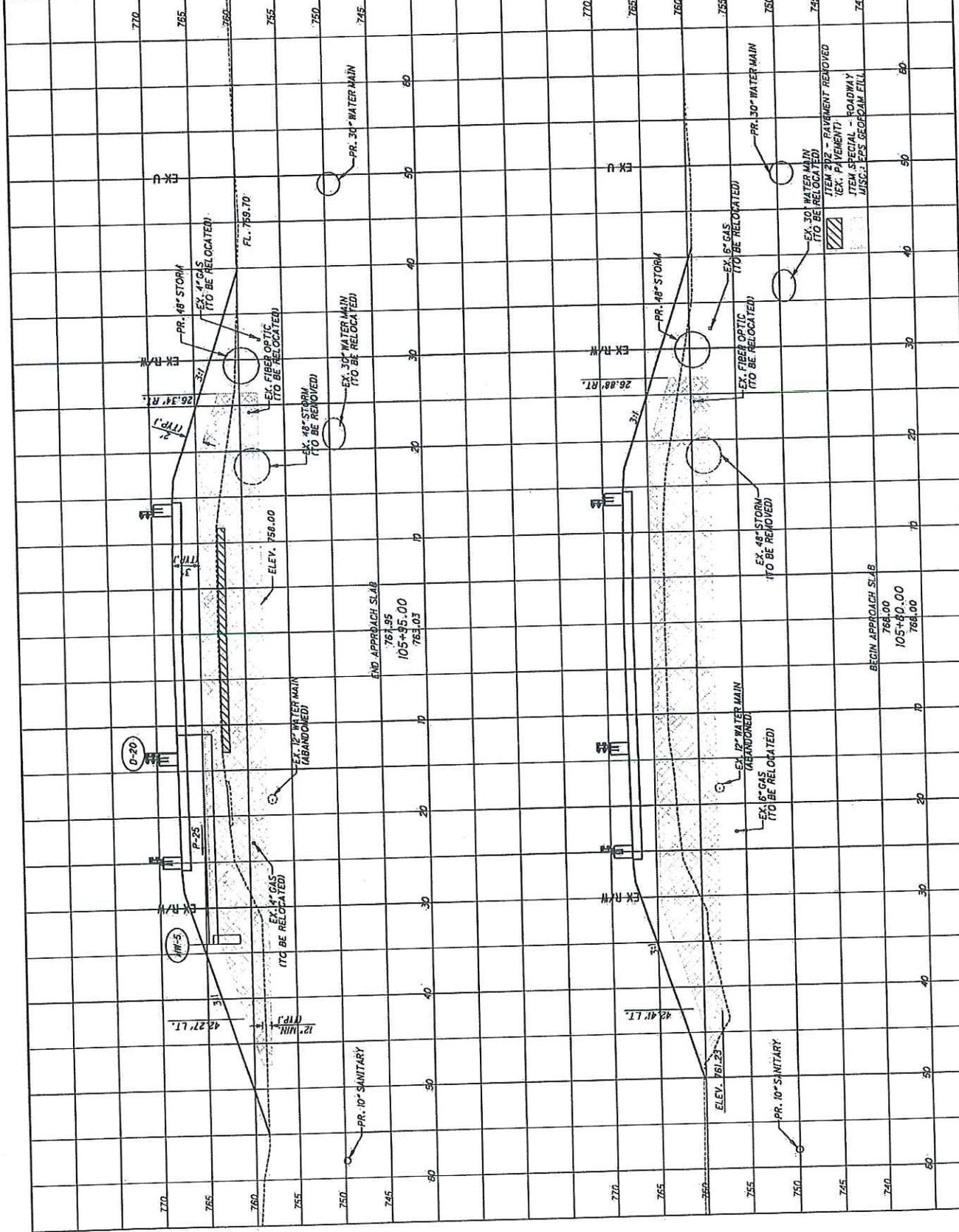
| END AREA | VOLUME | EXC. | FILL |
|----------|--------|------|------|
| | | | |

| | |
|-----------|-----------|
| PLAN | SECTION |
| 103+00.00 | 102+00.00 |
| 102+00.00 | 103+00.00 |



| | |
|-----------|-----------|
| SECTION | PLAN |
| 102+00.00 | 103+00.00 |
| 103+00.00 | 102+00.00 |

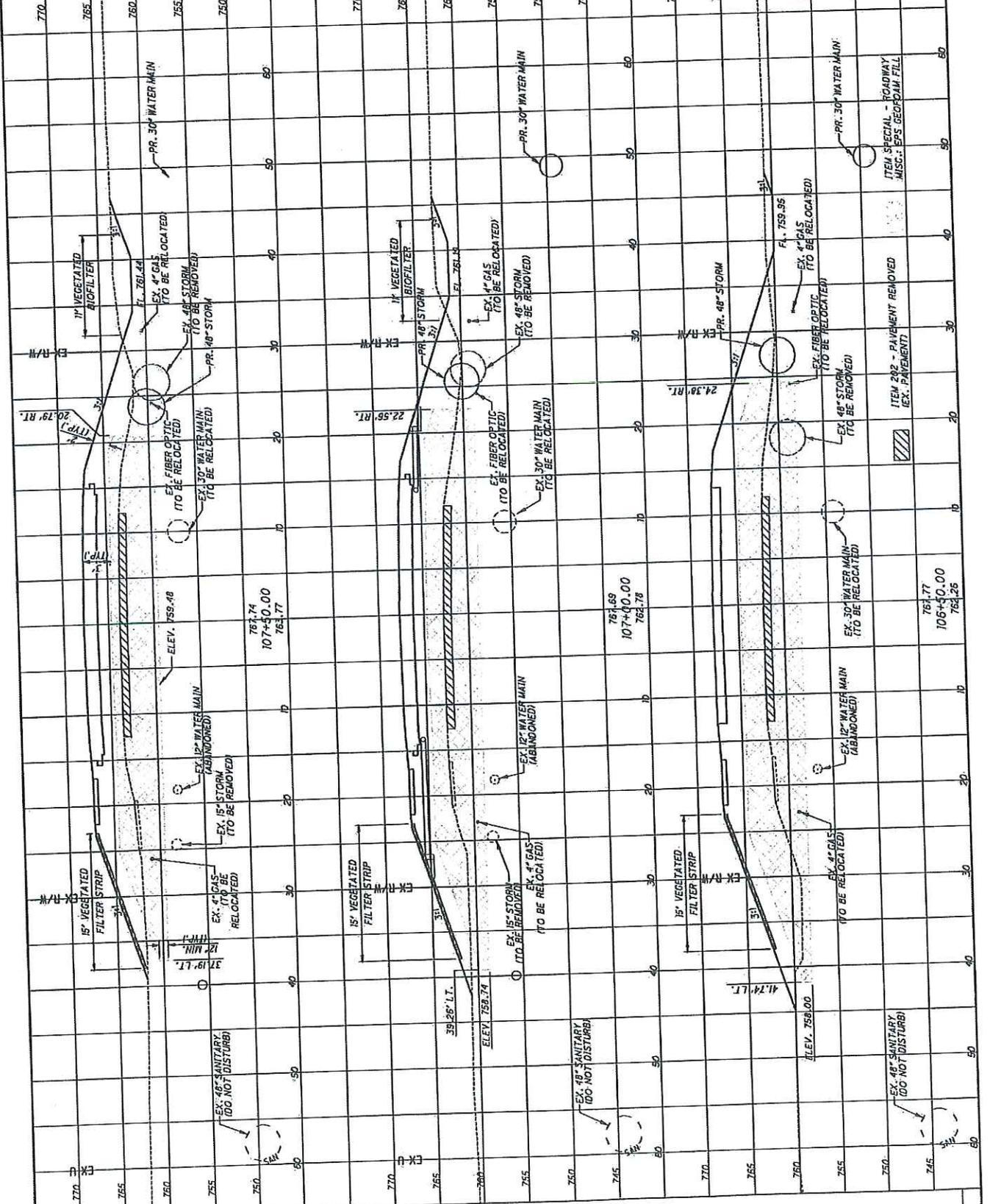
| | | |
|----------|------------|-----|
| PLAN | CALCULATED | |
| RECORD | F.I.S. | |
| END AREA | VOLUME | |
| CUT | FILL | CUT |



| | | |
|---------|------|------|
| SEEDING | 1.00 | 1.00 |
| GRASS | 1.00 | 1.00 |
| WIDTH | 1.00 | 1.00 |

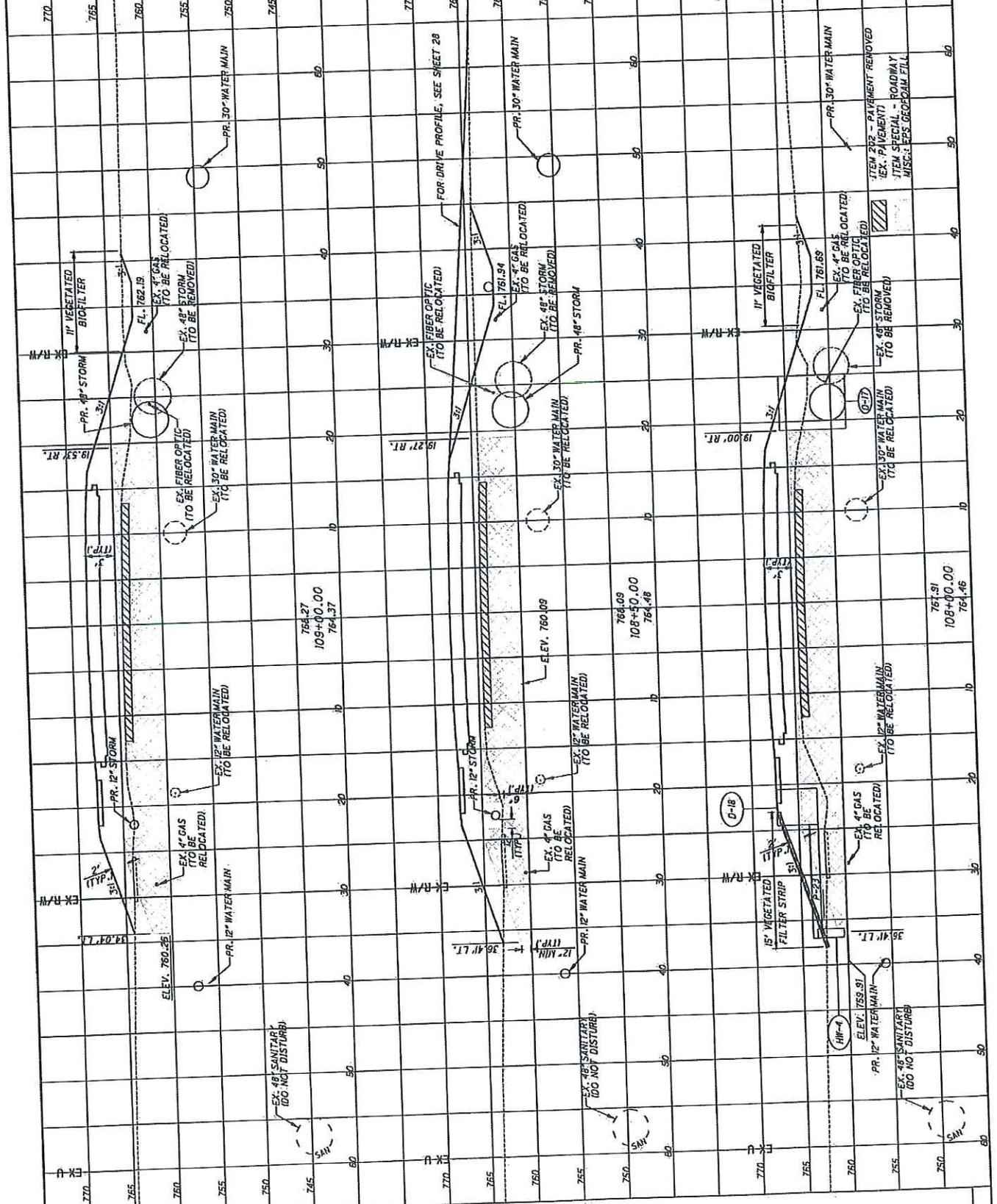
CROSS SECTIONS

| CALCULATED | PLAN |
|------------|------|
| END AREA | CUT |
| VOLUME | FILL |
| CUT | FILL |
| FILL | CUT |



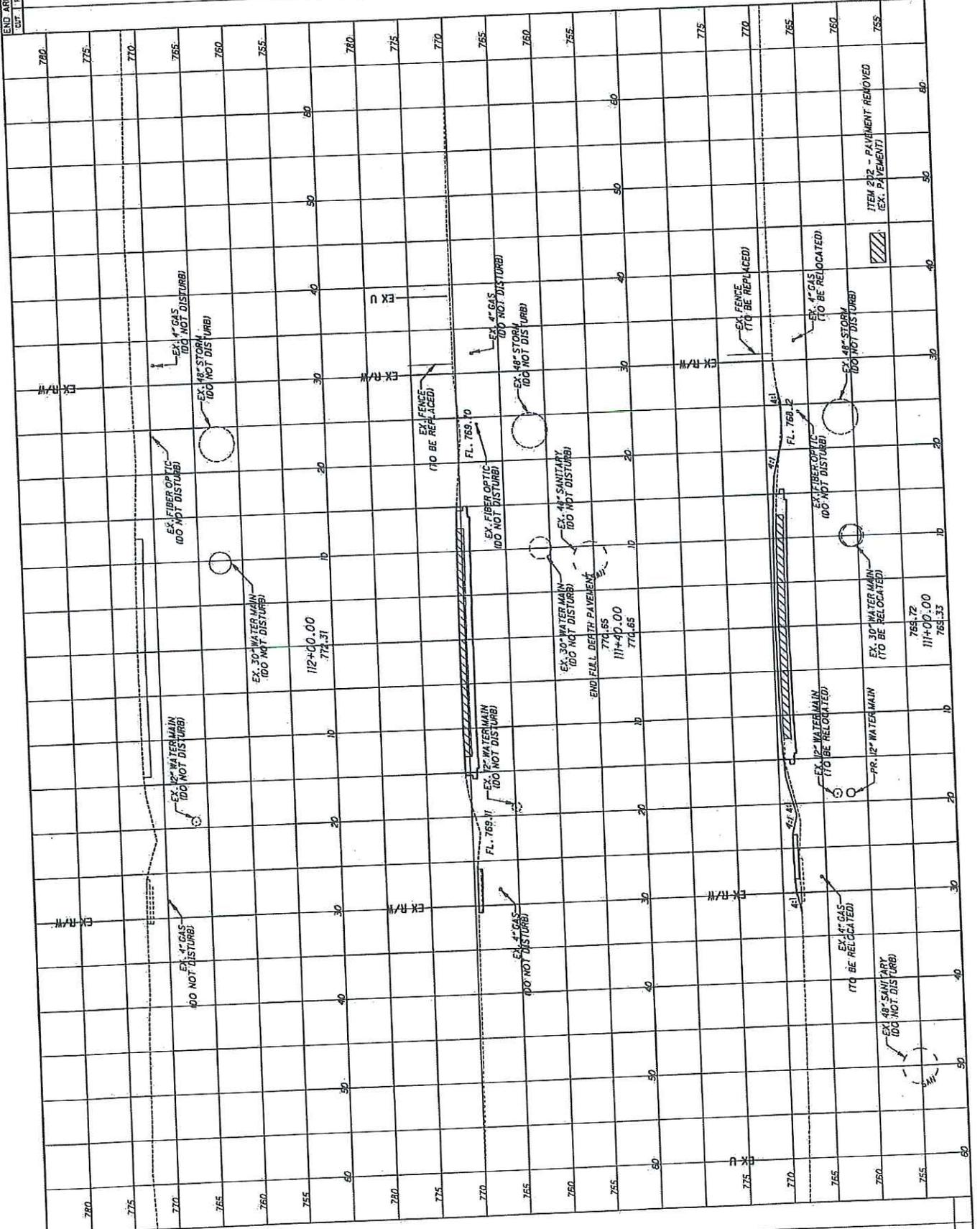
| | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SEEDING | 770 | 765 | 760 | 755 | 750 | 745 | 740 | 735 | 730 | 725 | 720 | 715 | 710 |
| WIDTH | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| DEPTH | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AREA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VOLUME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| CUT | FILL | END AREA & VOLUME | |
|-----|------|-------------------|-------|
| | | CU YD | CU YD |
| | | | |



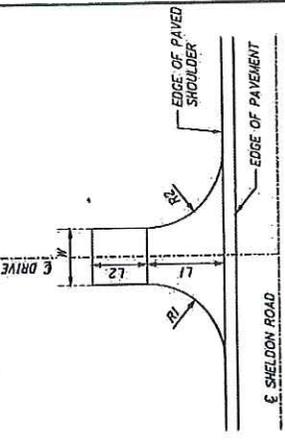
| | |
|---------|--|
| SEEDING | |
| 500 | |
| 100 | |

| | | | | |
|------------|--------|---------|-----|--------|
| CALCULATED | F.T.S. | CHECKED | JLN | VOLUME |
| | | | | CUT |

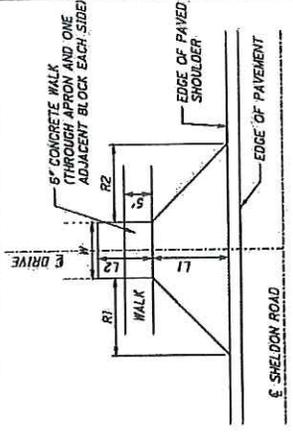


DRIVEWAY SUBSUMMARY

TYPE 1 DRIVEWAY PLAN VIEW (TYPICAL)



TYPE 2 DRIVEWAY PLAN VIEW (TYPICAL)

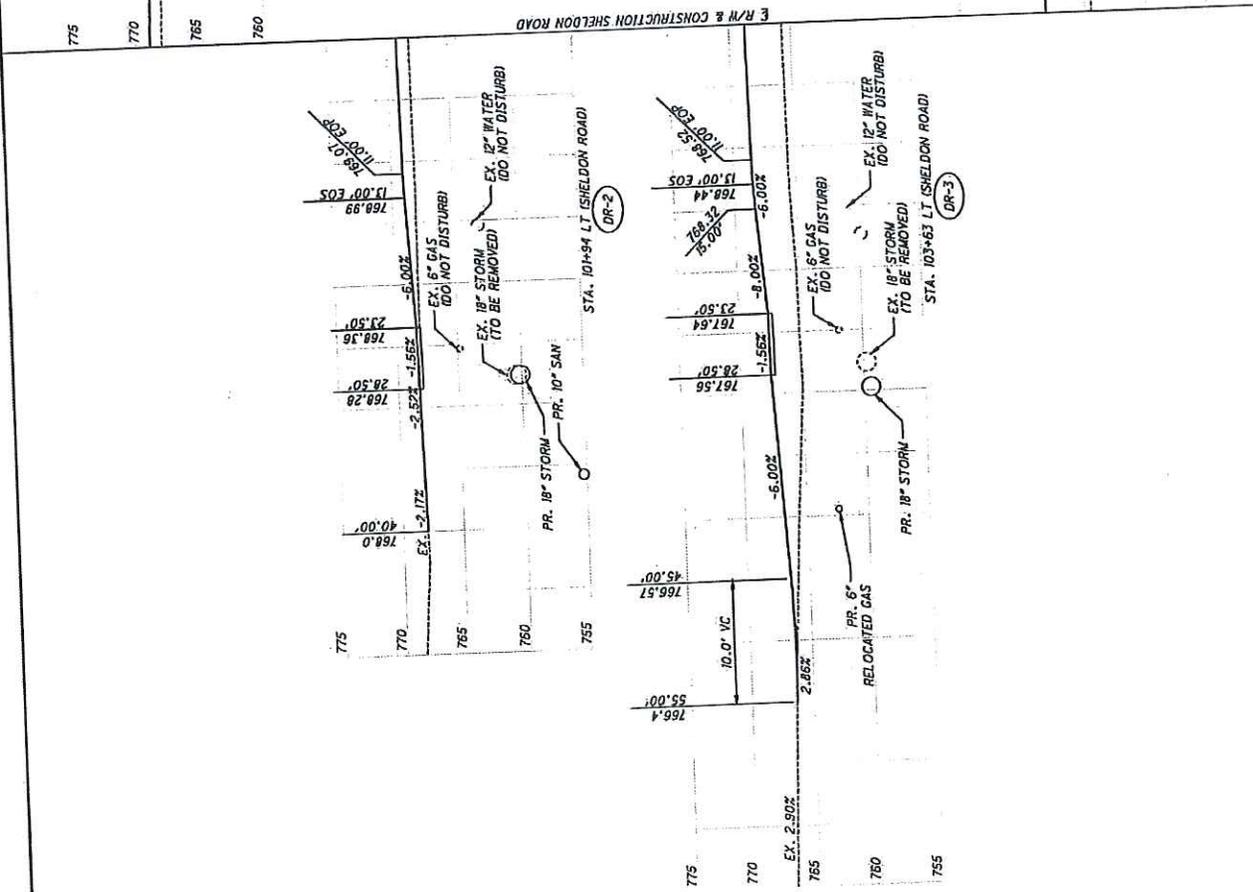
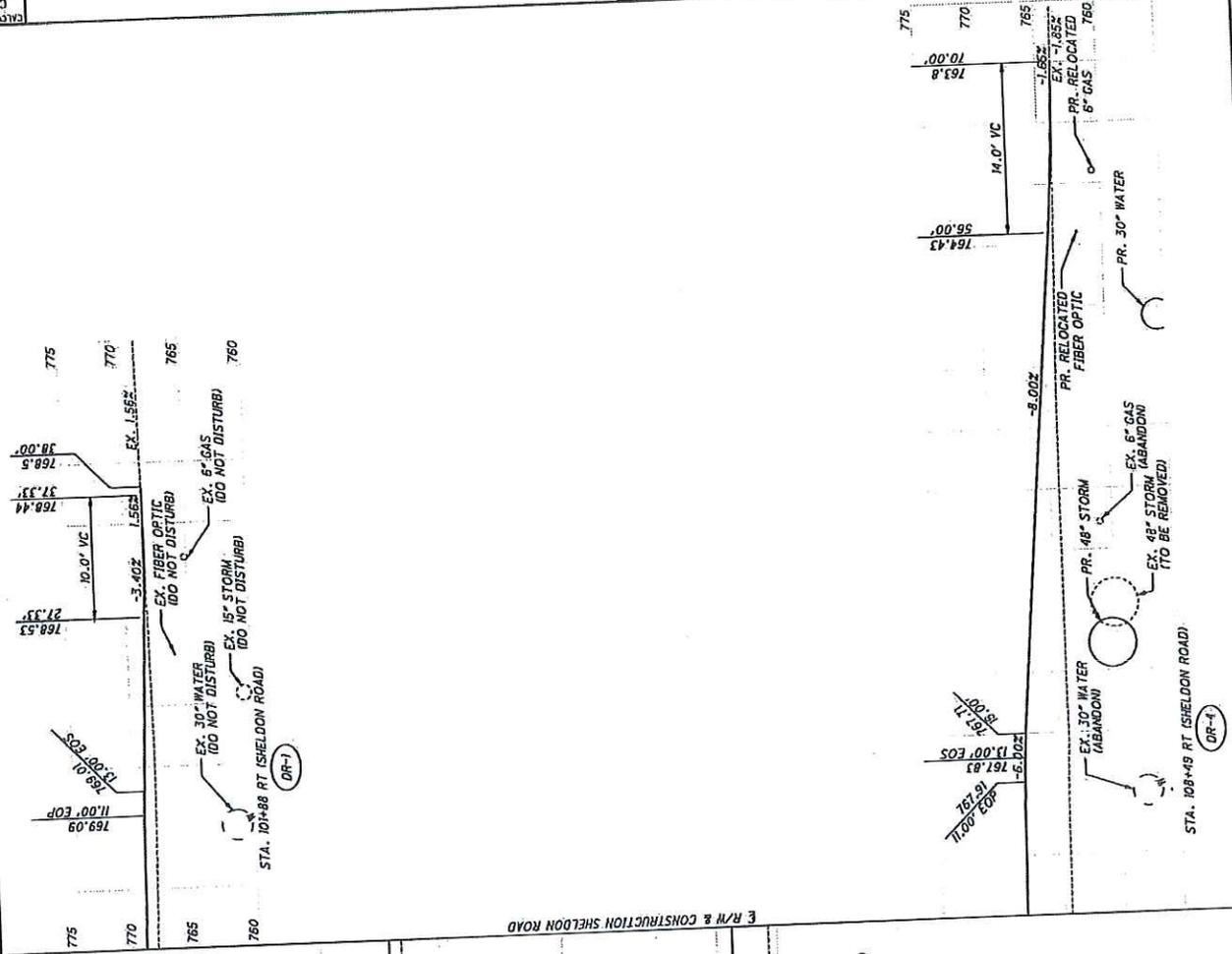


| SHEET NO. | REFERENCE NO. | STATION | SIDE | DRIVE TYPE | DRIVE MATERIAL | DRIVE ANGLE | APRON LENGTH 'L1' | DRIVE LENGTH 'L2' | WIDTH 'W' | R1 LEFT SIDE RADIUS OR APRON FLARE OF DRIVE (LOOKING FROM E) | R2 RIGHT SIDE RADIUS OR APRON FLARE OF DRIVE (LOOKING FROM E) | CADD GENERATED SURFACE AREA | PAVEMENT REMOVED | EXCAVATION | EMBANKMENT | SUBGRADE COMPACTION | AGGREGATE BASE | ASPHALT CONCRETE SURFACE COURSE TYPE 1, (449), (DRIVEWAYS) | ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, (449), (DRIVEWAYS) | 6" NON-REINFORCED CONCRETE PAVEMENT | | | | | | | | | | | | |
|--|---------------|---------------------|------|------------|----------------|-------------|-------------------|-------------------|-----------|--|---|-----------------------------|------------------|------------|------------|---------------------|----------------|--|---|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| 15 | DR-1 | SHELDON ROAD 101+88 | RT | COMM. | ASPH. | 90* | 25.0 | 0.0 | 34.0 | 22.7 | 5.9 | 1200 | | | | | | | | | | | | | | | | | | | | |
| 15 | DR-2 | 101+94 | LT | RES. | ASPH. | 90* | 10.5 | 16.5 | 12.0 | 5.0 | 5.0 | 376 | | | | | | | | | | | | | | | | | | | | |
| 15 | DR-3 | 103+63 | LT | RES. | ASPH. | 90* | 10.5 | 31.5 | 12.0 | 5.0 | 5.0 | 556 | | | | | | | | | | | | | | | | | | | | |
| 15 | DR-4 | 108+49 | RT | FIELD | AGG. | 90* | 25.0 | 32.0 | 24.0 | 25.0 | 25.0 | 2104 | | | | | | | | | | | | | | | | | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FIELD DRIVES:
 ITEM 304 - 6" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION
 RESIDENTIAL DRIVES:
 ASPHALT
 ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
 ITEM 304 - 6" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION
 COMMERCIAL DRIVES:
 ASPHALT
 ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
 ITEM 407 - TACK COAT
 ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)
 ITEM 304 - 6" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION
 DRIVE APRON MATERIAL TYPE:
 ASPHALT - FOR ASPHALT AND GRAVEL DRIVES

DRIVEWAY PROFILES

CALCULATED
COM
JLN



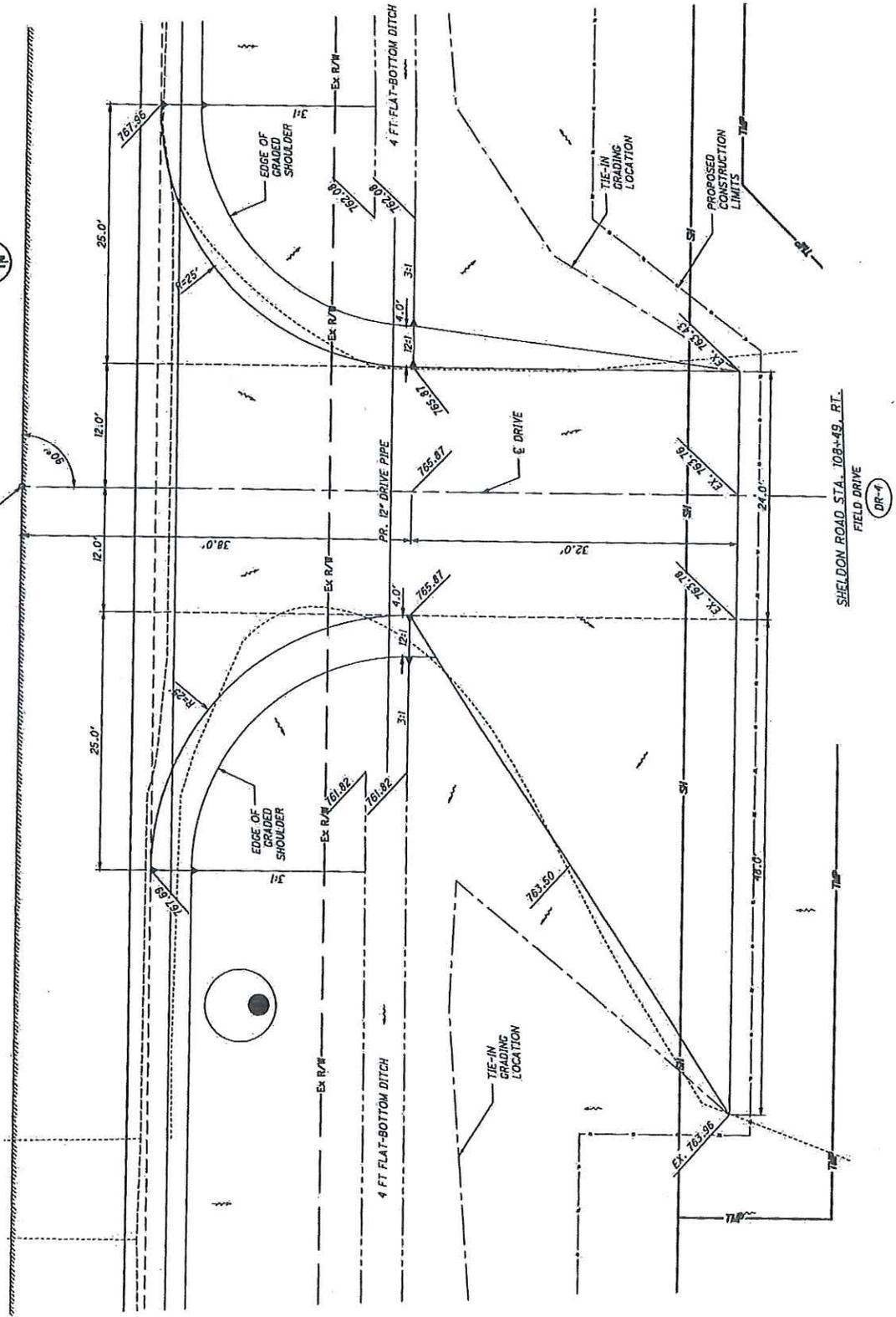
CITY/STATE
 COM
 PLAN

DRIVE DETAILS, SHELDON ROAD STA. 108+49, RIGHT

CUY-SHELDON RD.

29
 63

STA. 108+49.00, E R/W & CONSTRUCTION SHELDON ROAD =
 STA. 0+00.00, E BARK PARK DRIVE



STORM SEWER DETAILS

SCALE IN FEET

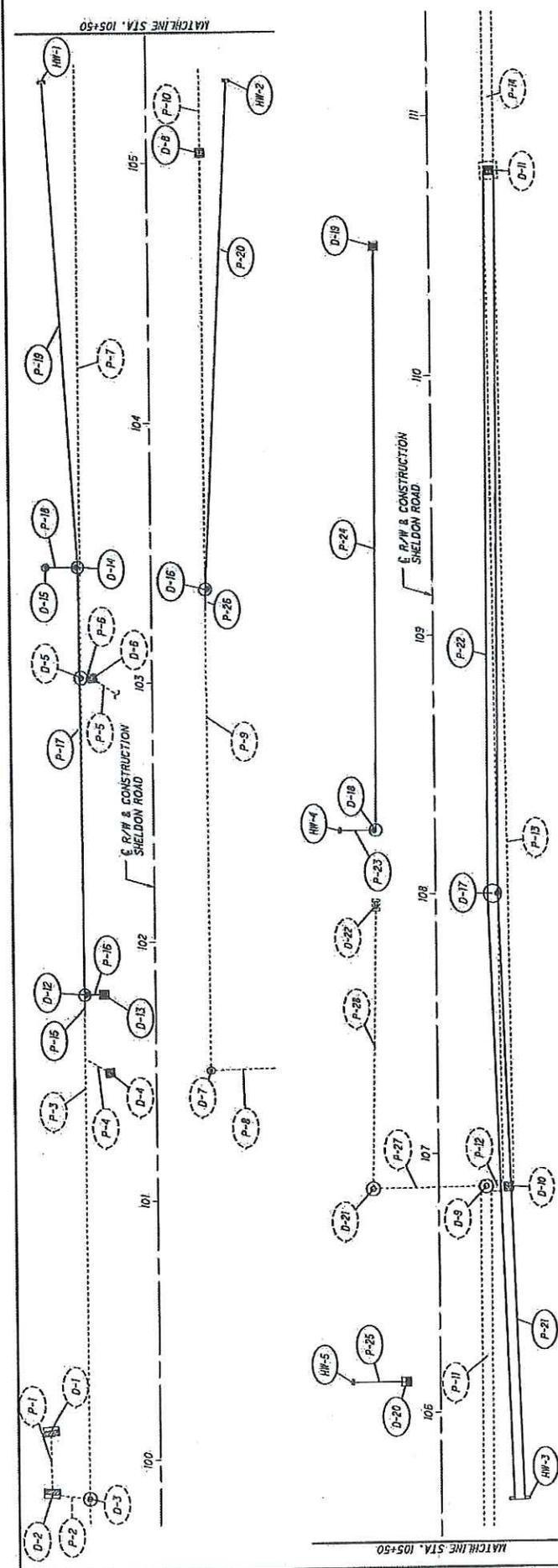
COM. BEEN

ESN

0 10 20

30 53

CUY-SHELDON RD.



STORM SEWER DETAILS

| REF. NO. | LENGTH (FT) | SIZE | TYPE | SLOPE | START STRUCTURE REF. NO. | START INVERT ELEV. | STOP STRUCTURE REF. NO. | STOP INVERT ELEV. | EXISTING DISPOSITION |
|----------|-------------|------|--------|-------|--------------------------|--------------------|-------------------------|-------------------|----------------------|
| P-1 | 25 | 12" | EX RCP | 4.9% | D-1 | 766.02 | D-2 | 767.79 | TO REMAIN |
| P-2 | 15 | 12" | EX RCP | 13.1% | D-2 | 767.79 | D-3 | 762.80 | TO REMAIN |
| P-3 | 314 | 18" | EX RCP | 0.3% | D-3 | 762.80 | D-4 | 759.37 | PARTIALLY REMOVE |
| P-4 | 11 | 15" | EX RCP | 0.3% | D-4 | 762.35 | UNK. | 762.3 | TO BE REMOVED |
| P-5 | 11 | 6" | EX PVC | UNK. | UNK. | UNK. | UNK. | 764.31 | TO BE REMOVED |
| P-6 | 5 | 12" | EX RCP | 0.4% | D-6 | 761.02 | D-5 | 761.9 | TO BE REMOVED |
| P-7 | 233 | 18" | EX RCP | 0.4% | D-5 | 760.26 | UNK. | 760.3 | TO BE REMOVED |
| P-8 | 25 | 12" | EX RCP | UNK. | UNK. | UNK. | UNK. | 760.31 | TO REMAIN |
| P-9 | 354 | 15" | UNK. | 0.3% | D-7 | 760.16 | D-6 | 760.16 | PARTIALLY REMOVE |
| P-10 | 32 | 15" | UNK. | 0.3% | D-7 | 759.39 (EST.) | D-8 | 759.39 (EST.) | TO BE REMOVED |
| P-11 | 131 | 48" | UNK. | 0.5% | D-9 | 759.17 (EST.) | UNK. | 759.17 (EST.) | TO BE REMOVED |
| P-12 | 9 | 48" | UNK. | 0.5% | D-10 | 767.21 (EST.) | D-9 | 767.21 (EST.) | TO BE REMOVED |
| P-13 | 392 | 48" | EX RCP | 0.5% | D-11 | 759.17 | D-10 | 759.17 | TO BE REMOVED |
| P-14 | 241 | 48" | EX RCP | 1.0% | N/A | 761.68 | D-11 | 761.68 | TO REMAIN |
| P-15 | 8 | 12" | TYPE C | 0.28% | N/A | 760.73 | D-12 | 760.73 | TO REMAIN |
| P-16 | 8 | 12" | TYPE C | 1.00% | D-13 | 760.04 | D-12 | 759.86 | TO REMAIN |
| P-17 | 165 | 18" | TYPE C | 0.0% | D-12 | 759.46 | D-14 | 758.80 | TO REMAIN |
| P-18 | 18 | 12" | TYPE C | 1.00% | D-15 | 759.46 | D-14 | 759.30 | TO REMAIN |
| P-19 | 18 | 12" | TYPE C | 0.20% | D-14 | 759.46 | D-14 | 759.30 | TO REMAIN |
| P-20 | 156 | 15" | TYPE C | 0.20% | D-16 | 759.46 | D-14 | 759.30 | TO REMAIN |
| P-21 | 234 | 48" | TYPE C | 0.30% | D-17 | 753.33 | UNK. | 757.64 | TO REMAIN |
| P-22 | 279 | 48" | TYPE C | 0.30% | D-11 | 753.33 | UNK. | 757.64 | TO REMAIN |
| P-23 | 15 | 12" | TYPE C | 0.01% | D-18 | 762.80 | UNK. | 762.75 | TO REMAIN |
| P-24 | 225 | 12" | TYPE C | 0.52% | D-19 | 764.05 | D-15 | 762.80 | TO REMAIN |
| P-25 | 21 | 12" | TYPE C | 1.00% | D-20 | 763.09 | UNK. | 763.77 | TO REMAIN |
| P-26 | 8 | 15" | TYPE C | 0.18% | N/A | 759.46 | D-9 | 759.42 | TO BE REMOVED |
| P-27 | 43 | 15" | UNK. | UNK. | UNK. | UNK. | UNK. | 763.77 | TO BE REMOVED |
| P-28 | 100 | 15" | UNK. | UNK. | D-21 | UNK. | D-21 | UNK. | TO BE REMOVED |

CONDUIT DETAILS

| REF. NO. | LENGTH (FT) | SIZE | TYPE | SLOPE | START STRUCTURE REF. NO. | START INVERT ELEV. | STOP STRUCTURE REF. NO. | STOP INVERT ELEV. | EXISTING DISPOSITION | |
|----------|-------------|------|--------|--------|--------------------------|--------------------|-------------------------|-------------------|----------------------|---------------|
| D-1 | 100 | 12" | EX RCP | 4.9% | D-1 | 766.02 | D-2 | 767.79 | TO REMAIN | |
| D-2 | 105 | 12" | EX RCP | 13.1% | D-2 | 767.79 | D-3 | 762.80 | TO REMAIN | |
| D-3 | 108 | 18" | EX RCP | 0.3% | D-3 | 762.80 | D-4 | 759.37 | PARTIALLY REMOVE | |
| D-4 | 111 | 15" | EX RCP | 0.3% | D-4 | 762.35 | UNK. | 762.3 | TO BE REMOVED | |
| D-5 | 114 | 6" | EX PVC | UNK. | UNK. | UNK. | UNK. | 764.31 | TO BE REMOVED | |
| D-6 | 117 | 12" | EX RCP | 0.4% | D-6 | 761.02 | D-5 | 761.9 | TO BE REMOVED | |
| D-7 | 122 | 18" | EX RCP | 0.4% | D-5 | 760.26 | UNK. | 760.3 | TO BE REMOVED | |
| D-8 | 127 | 15" | UNK. | 0.3% | D-7 | 760.16 | D-6 | 760.16 | PARTIALLY REMOVE | |
| D-9 | 132 | 48" | UNK. | 0.5% | D-9 | 759.17 (EST.) | UNK. | 759.17 (EST.) | TO BE REMOVED | |
| D-10 | 137 | 48" | UNK. | 0.5% | D-10 | 767.21 (EST.) | D-9 | 767.21 (EST.) | TO BE REMOVED | |
| D-11 | 142 | 48" | EX RCP | 0.5% | D-11 | 759.17 | D-10 | 759.17 | TO BE REMOVED | |
| D-12 | 147 | 12" | TYPE C | 0.28% | N/A | 760.73 | D-12 | 760.73 | TO REMAIN | |
| D-13 | 152 | 12" | TYPE C | 1.00% | D-13 | 760.04 | D-12 | 759.86 | TO REMAIN | |
| D-14 | 157 | 18" | TYPE C | 0.0% | D-12 | 759.46 | D-14 | 758.80 | TO REMAIN | |
| D-15 | 162 | 12" | TYPE C | 1.00% | D-15 | 759.46 | D-14 | 759.30 | TO REMAIN | |
| D-16 | 167 | 12" | TYPE C | 0.20% | D-14 | 759.46 | D-14 | 759.30 | TO REMAIN | |
| D-17 | 172 | 15" | TYPE C | 0.20% | D-16 | 759.46 | D-14 | 759.30 | TO REMAIN | |
| D-18 | 177 | 48" | TYPE C | 0.30% | D-17 | 753.33 | UNK. | 757.64 | TO REMAIN | |
| D-19 | 182 | 48" | TYPE C | 0.30% | D-11 | 753.33 | UNK. | 757.64 | TO REMAIN | |
| D-20 | 187 | 12" | TYPE C | 0.01% | D-18 | 762.80 | UNK. | 762.75 | TO REMAIN | |
| D-21 | 192 | 12" | TYPE C | 0.52% | D-19 | 764.05 | D-15 | 762.80 | TO REMAIN | |
| D-22 | 197 | 21" | TYPE C | 1.00% | D-20 | 763.09 | UNK. | 763.77 | TO REMAIN | |
| D-23 | 202 | 8" | 15" | TYPE C | 0.18% | N/A | 759.46 | D-9 | 759.42 | TO BE REMOVED |
| D-24 | 207 | 15" | UNK. | UNK. | UNK. | UNK. | UNK. | 763.77 | TO BE REMOVED | |
| D-25 | 212 | 100 | 15" | UNK. | D-21 | UNK. | D-21 | UNK. | TO BE REMOVED | |

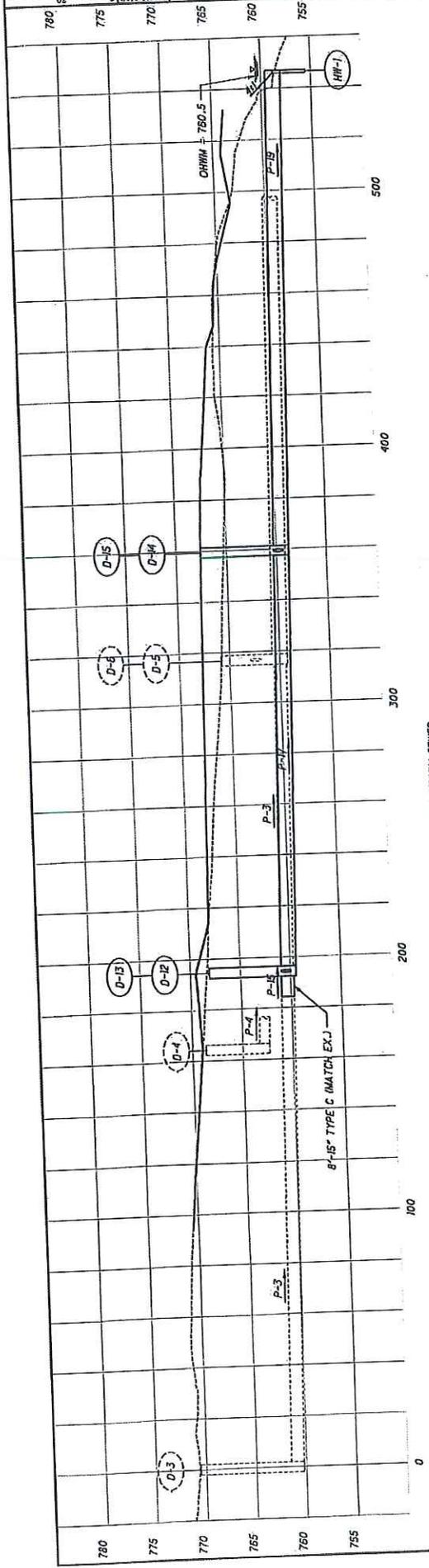
CONNECTED PIPES

| REF. NO. | LENGTH (FT) | SIZE | TYPE | SLOPE | START STRUCTURE REF. NO. | START INVERT ELEV. | STOP STRUCTURE REF. NO. | STOP INVERT ELEV. | EXISTING DISPOSITION | |
|----------|-------------|------|--------|--------|--------------------------|--------------------|-------------------------|-------------------|----------------------|----------------|
| C-1 | 100 | 12" | EX RCP | 4.9% | D-1 | 766.02 | D-2 | 767.79 | DO NOT DISTURB | |
| C-2 | 105 | 12" | EX RCP | 13.1% | D-2 | 767.79 | D-3 | 762.80 | DO NOT DISTURB | |
| C-3 | 108 | 18" | EX RCP | 0.3% | D-3 | 762.80 | D-4 | 759.37 | DO NOT DISTURB | |
| C-4 | 111 | 15" | EX RCP | 0.3% | D-4 | 762.35 | UNK. | 762.3 | DO NOT DISTURB | |
| C-5 | 114 | 6" | EX PVC | UNK. | UNK. | UNK. | UNK. | 764.31 | DO NOT DISTURB | |
| C-6 | 117 | 12" | EX RCP | 0.4% | D-6 | 761.02 | D-5 | 761.9 | DO NOT DISTURB | |
| C-7 | 122 | 18" | EX RCP | 0.4% | D-5 | 760.26 | UNK. | 760.3 | DO NOT DISTURB | |
| C-8 | 127 | 15" | UNK. | 0.3% | D-7 | 760.16 | D-6 | 760.16 | DO NOT DISTURB | |
| C-9 | 132 | 48" | UNK. | 0.5% | D-9 | 759.17 (EST.) | UNK. | 759.17 (EST.) | DO NOT DISTURB | |
| C-10 | 137 | 48" | UNK. | 0.5% | D-10 | 767.21 (EST.) | D-9 | 767.21 (EST.) | DO NOT DISTURB | |
| C-11 | 142 | 48" | EX RCP | 0.5% | D-11 | 759.17 | D-10 | 759.17 | DO NOT DISTURB | |
| C-12 | 147 | 12" | TYPE C | 0.28% | N/A | 760.73 | D-12 | 760.73 | DO NOT DISTURB | |
| C-13 | 152 | 12" | TYPE C | 1.00% | D-13 | 760.04 | D-12 | 759.86 | DO NOT DISTURB | |
| C-14 | 157 | 18" | TYPE C | 0.0% | D-12 | 759.46 | D-14 | 758.80 | DO NOT DISTURB | |
| C-15 | 162 | 12" | TYPE C | 1.00% | D-15 | 759.46 | D-14 | 759.30 | DO NOT DISTURB | |
| C-16 | 167 | 12" | TYPE C | 0.20% | D-14 | 759.46 | D-14 | 759.30 | DO NOT DISTURB | |
| C-17 | 172 | 15" | TYPE C | 0.20% | D-16 | 759.46 | D-14 | 759.30 | DO NOT DISTURB | |
| C-18 | 177 | 48" | TYPE C | 0.30% | D-17 | 753.33 | UNK. | 757.64 | DO NOT DISTURB | |
| C-19 | 182 | 48" | TYPE C | 0.30% | D-11 | 753.33 | UNK. | 757.64 | DO NOT DISTURB | |
| C-20 | 187 | 12" | TYPE C | 0.01% | D-18 | 762.80 | UNK. | 762.75 | DO NOT DISTURB | |
| C-21 | 192 | 12" | TYPE C | 0.52% | D-19 | 764.05 | D-15 | 762.80 | DO NOT DISTURB | |
| C-22 | 197 | 21" | TYPE C | 1.00% | D-20 | 763.09 | UNK. | 763.77 | DO NOT DISTURB | |
| C-23 | 202 | 8" | 15" | TYPE C | 0.18% | N/A | 759.46 | D-9 | 759.42 | DO NOT DISTURB |
| C-24 | 207 | 15" | UNK. | UNK. | UNK. | UNK. | UNK. | 763.77 | DO NOT DISTURB | |
| C-25 | 212 | 100 | 15" | UNK. | D-21 | UNK. | D-21 | UNK. | DO NOT DISTURB | |

GRATE/INVERT ELEV. TYPE SIDE OFFSET STATION REFERENCE ALIGNMENT SHELDON RD

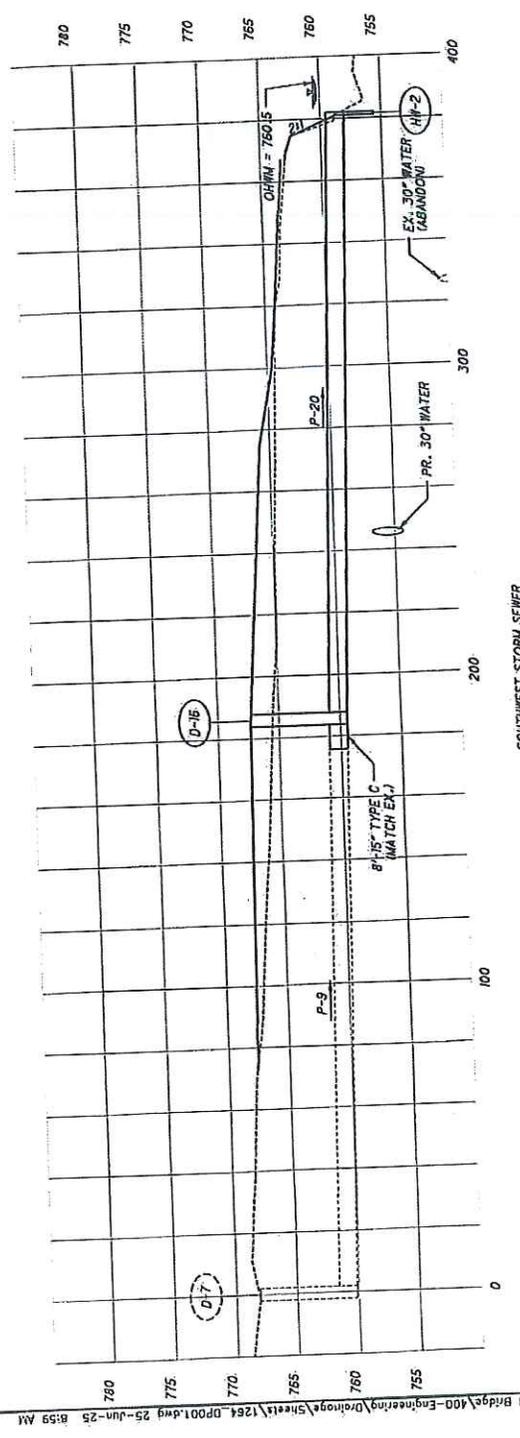
SHELDON ROAD
DRAINAGE PROFILES

CIRCULAR
 COM
 GROUND
 JLN
 HORIZONTAL
 SCALE IN FEET



NORTHWEST STORM SEWER

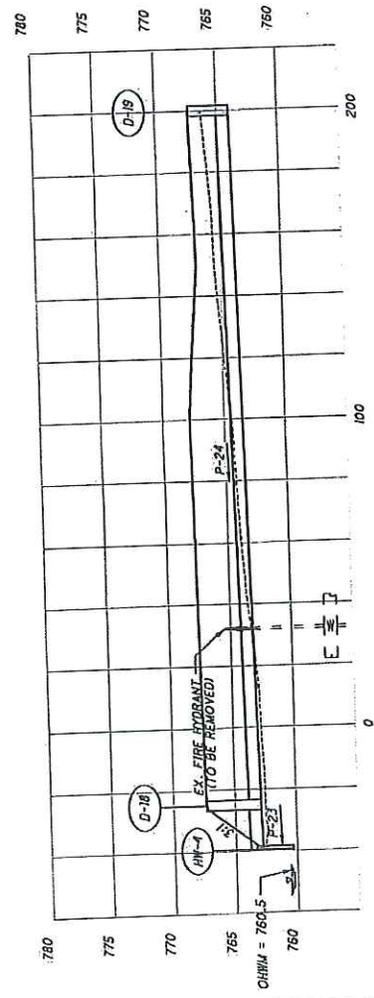
NOTES:
 1. SEE SHEET 30 FOR COMPLETE DRAINAGE INFORMATION.



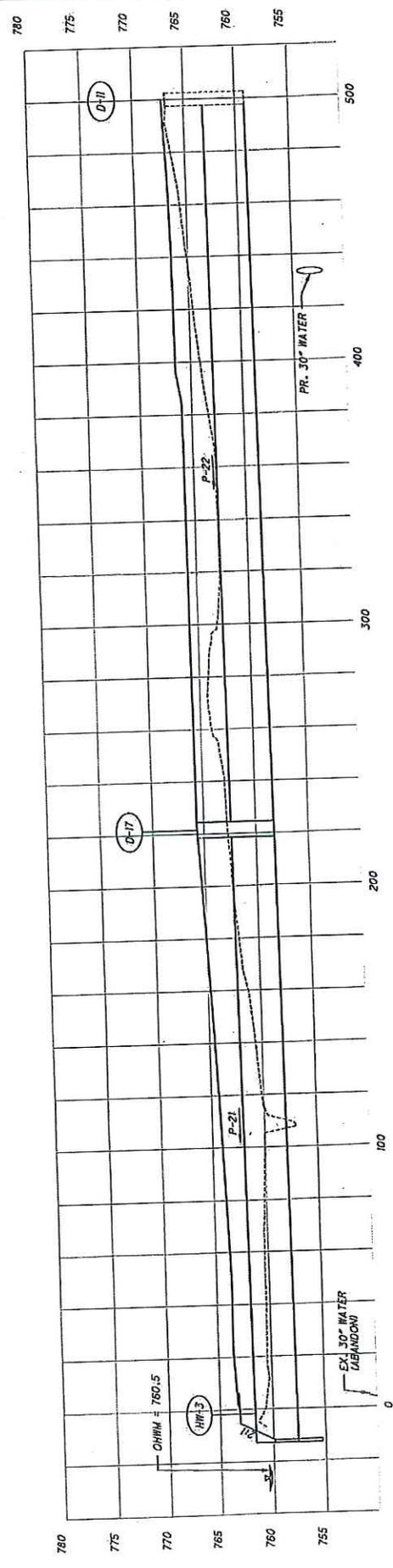
SOUTHWEST STORM SEWER

SHELDON ROAD
DRAINAGE PROFILES

HORIZONTAL SCALE IN FEET
 0 20 40
 COM. ORCELO
 JLN
 SHELDON RD.



NOTES:
 1. SEE SHEET 30 FOR COMPLETE DRAINAGE INFORMATION. NORTHEAST STORM SEWER



SOUTHEAST STORM SEWER



SCALE IN FEET
HORIZONTAL
VERTICAL

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: _____

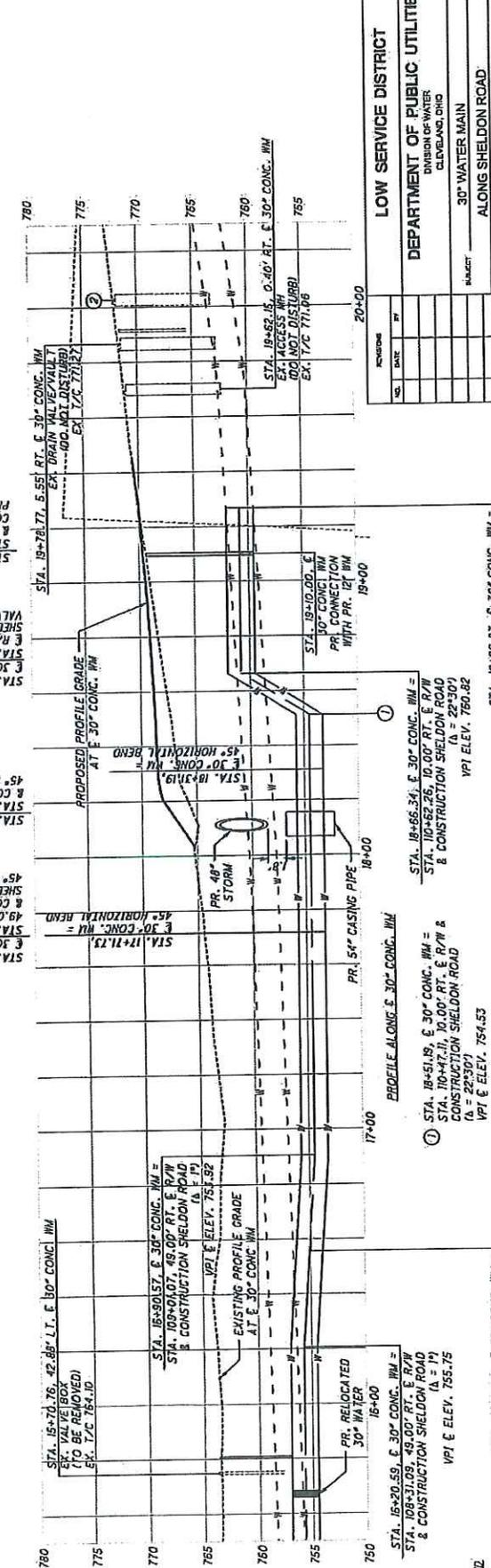
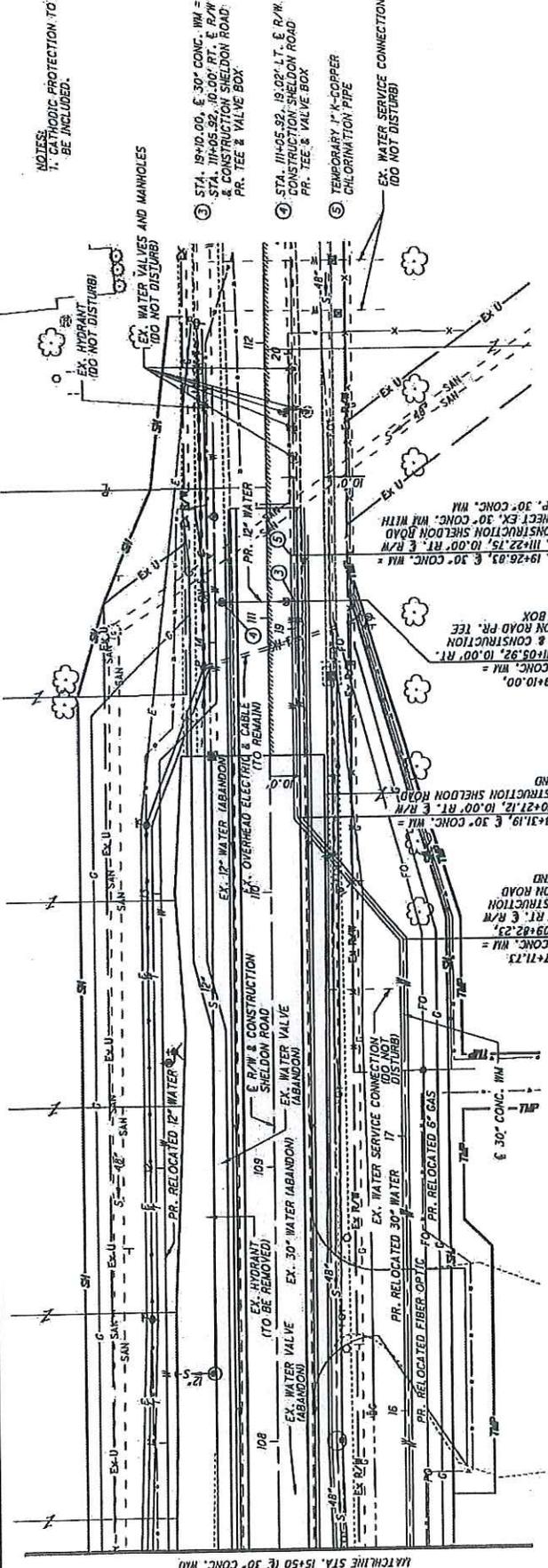
STA. 15+50 TO STA. 20+40

WATER WORK PLAN AND PROFILE

CUY-SHELDON RD.

35
53

NOTES:
1. CATHODIC PROTECTION TO BE INCLUDED.



LOW SERVICE DISTRICT
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER
CLEVELAND OHIO

PROJECT: 30" WATER MAIN
ALONG SHELDON ROAD
CITY OF MIDDLEBURG HEIGHTS

DATE: _____
DRAWN BY: _____
CHECKED BY: _____

No. _____

PROF.:
LIGHTWEIGHT
EMBANKMENT
FOOTPRINT

LEGEND:
① STA. 18+51.89, E. 30" CONC. WM =
STA. 18+52.26, 10.00' RT. E. R/W
& CONSTRUCTION SHELTON ROAD
CONSTRUCT EX. 30" CONC. WM
WITH PROP. 30" CONC. WM
VPI ELEV. 754.53

② STA. 19+26.83, E. 30" CONC. WM =
STA. 19+27.15, 10.00' RT. E. R/W &
CONSTRUCTION SHELTON ROAD
CONSTRUCT EX. 30" CONC. WM
WITH PROP. 30" CONC. WM
VPI ELEV. 755.14

③ STA. 19+10.00, E. 30" CONC. WM =
STA. 19+05.92, 10.00' RT. E. R/W
& CONSTRUCTION SHELTON ROAD
PR. TEE & VALVE BOX

④ STA. 19+05.92, 10.00' RT. E. R/W &
CONSTRUCTION SHELTON ROAD
PR. TEE & VALVE BOX

⑤ TEMPORARY 1" K-COPPER
CHLORINATION PIPE
EX. WATER SERVICE CONNECTION
(DO NOT DISTURB)

WATER WORK NOTES

CUY-SHELDON RD.

CLAMPS AS DIRECTED BY CLEVELAND WATER.

- HYDRANT BRANCHES TO BE FULLY RESTRAINED. IF BRANCH IS SHORTENED, USE ONLY 1/2 SLEEVE OR COUPLING WITH NO NEW PIPE REQUIRED.
- MIDDLE RING AND FOLLOWER GLANDS TO BE EITHER STEEL OR DUCTILE IRON ASTM A536.
- FLUSHING HYDRANTS SHALL CONSIST OF 2" RIP VERTICAL INLET, 2" MIP OUTLET AND BE SELF-DRAINING. FLUSHING HYDRANT SHALL BE FULLY OPERABLE AND SERVICEABLE FROM ABOVE GROUND. EQUAL TO KUPERFERLE TRUFLO MODEL NO. TF500.

COMPRESSION COUPLINGS - VALVES AND HYDRANTS

- CLASS 250 AWWA C219 GASKETED, SLEEVE TYPE WITH DIAMETERS TO PROPERLY FIT PLAIN END PIPE
- MINIMUM WORKING PRESSURE: 250 PSI
- EQUAL TO DRESSER STYLE NO. 38, 138, OR 162 (TRANSITION TYPE) OR ROMAC 501 / SMITH-BLAIR 441 STRAIGHT AND TRANSITION COUPLINGS.
- EACH COUPLING TO CONSIST OF 1 DUCTILE IRON MIDDLE RING WITHOUT STOPS (ASTM-A536), 2 DUCTILE IRON FOLLOWER GLANDS (ASTM A536), 2 RUBBER COMPOUND BUNA-N BLEND, WEDGE SECTION GASKETS, AND SUFFICIENT TRACKHEAD STAINLESS STEEL BOLTS AND NUTS OF ASTM A276/A193/194 TYPE 304 EXTRA HEAVY HEX TO PROPERLY COMPRESS THE GASKETS.

FITTINGS/JOINTS

- ALL FITTINGS/JOINTS TO BE APPROVED DUCTILE IRON, CLASS 350, CEMENT LINED, OR FLUORIN BONDED EPOXY COATED (UNLESS OTHERWISE CALLED FOR ON PLANS).
- ALL FITTINGS TO BE RESTRAINED USING A "RETAINED" MECHANICAL JOINT CONFORMING TO THE MATERIAL AND PERFORMANCE REQUIREMENTS OF ANSI/AWWA C110/A21.10 AND ANSI/AWWA C111/A21.11, OR "COMPACT" FITTINGS IN ACCORDANCE WITH ANSI/AWWA C153/A21.53.
- MUST HAVE APPROVED "TYPE I" OR "TYPE II" BOLTS/RESTRAINED PUSH-ON JOINTS TO THE LIMITS SHOWN ON THE DRAWINGS.
- ALL FITTINGS ARE TO HAVE BELL ENDS.

GASKETS AND LUBRICANTS

- ELASTOMERIC GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477 FOR HIGH-HEAD APPLICATIONS.
- GASKETS AND LUBRICANTS INTENDED FOR USE WITH POTABLE WATER SHALL BE CERTIFIED BY AN ACCREDITED TESTING AGENCY FOR COMPLIANCE WITH NSF/ANSI 61.

ANODE PROTECTION

- MAGNESIUM ALLOY ANODES SHALL MEET ASTM B843 AND ASTM G97.
- THERMITE WELDS ARE TO BE COATED WITH A PREFABRICATED ONE-PIECE PLASTIC CAP.
- COPPER SLEEVES ARE REQUIRED FOR THERMITE WELD WIRE CONNECTIONS USING #10 AWG WIRE OR SMALLER.

WATER MAIN TRENCH

- BEDDING, INITIAL AND PREMIUM BACKFILL MATERIAL: # 57 OR #67 COARSE LIMESTONE AGGREGATE COMPLYING WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SECTION 703.11. WRITTEN APPROVAL REQUIRED BY CWD FOR SAND BEDDING FOR DUCTILE IRON PIPE.
- SUITABLE BACKFILL: EXCAVATED MATERIAL FREE OF ROCK LARGER THAN 1.5", FROZEN MATERIALS, ORGANIC MATERIAL, AND DEBRIS.
- TYPE 2 CONTROLLED LOW-STRENGTH MORTAR (CLSM) SHALL CONFORM TO ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SECTION 613.03. CLSM MAY BE USED AS DIRECTED BY CLEVELAND WATER.

REFERENCE STANDARDS

- ASTM A276- STAINLESS STEEL BARS AND SHAPES
- ASTM A193/A194- ALLOY-STEEL AND STAINLESS-STEEL BOLTING FOR HIGH TEMPERATURE OR HIGH-PRESSURE SERVICE AND OTHER SPECIAL PURPOSE APPLICATIONS
- ASTM A536- DUCTILE IRON CASTINGS
- ASTM A1097- STEEL CASING PIPE, CARBON, ELECTRIC-FUSION (ARC)-WELDED (NPS 10 AND LARGER)
- ASTM D2774- STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING
- ASTM F1668- STANDARD GUIDE FOR CONSTRUCTION PROCEDURES FOR BURIED PLASTIC
- ANSI/AWWA C111- RUBBER-GASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS
- ANSI/AWWA C151- DUCTILE-IRON PIPE, CENTRIFUGALLY CAST
- ANSI/AWWA C153- DUCTILE IRON COMPACT FITTINGS
- ANSI/AWWA C110- DUCTILE IRON FLANGED FITTINGS
- AWWA C219- BOLTED SLEEVE-TYPE COUPLINGS FOR PLAIN-END PIPE
- AWWA C509- RESILIENT-SEATED GATE VALVES FOR WATER SUPPLY SERVICE
- AWWA C515- REDUCED-WALL, RESILIENT-SEATED GATE VALVES FOR WATER SUPPLY SERVICE
- AWWA C900- POLYVINYL CHLORIDE PVC PRESSURE PIPE AND FABRICATED FITTINGS
- AWWA C908- MOLECULARLY ORIENTED POLYVINYL CHLORIDE
- ODOT 499- CONCRETE

DUCTILE IRON PIPE

- ALL PIPE SHALL BE AWWA C151 DUCTILE IRON, MINIMUM CLASS 52, WITH A CEMENT MORTAR LINING, HAVING PUSH-ON JOINTS WITH RADIALLY COMPRESSED RUBBER RING GASKET. MAINS 36" AND LARGER SHALL BE MINIMUM PRESSURE CLASS 350.

PVC PIPE

- AWWA C900 CLASS 235 PSI (DR18) OR AWWA C909 CLASS 235 PSI (DR18)
- INSIDE DIAMETER: NO LARGER THAN 12". NO SMALLER THAN 4".

GATE VALVES

- AWWA C509 OR C515 APPROVED MODEL RESILIENT SEATED GATE VALVES
- VALVE OPERATING NUTS: TAPERED (1 7/8" TO 2" FROM TOP TO BOTTOM) AND 2" DEEP
- MIDDLE RING AND FOLLOWER GLANDS TO BE DUCTILE IRON ASTM A536

AIR RELIEF VALVES

- AIR RELIEF VALVE COMPONENT PARTS SHALL CONFORM TO AWWA C800 AND ASTM B584 FOR MATERIALS THAT COME INTO CONTACT WITH POTABLE WATER.
- VALVE INLET AND OUTLET SIZE SHALL BE 2". INSTALL ONLY CLEVELAND WATER-APPROVED AIR RELIEF VALVE PRODUCTS.

HYDRANTS

- INSTALL ONLY CLEVELAND WATER-APPROVED HYDRANT MODELS.
- HYDRANTS SHALL BE FACTORY EQUIPPED WITH THE APPROPRIATE HYDRANT NOZZLE, INCLUDING STORZ IF REQUESTED BY THE LOCAL MUNICIPALITY.
- INSTALL ALL HYDRANTS WITH APPROVED PVC PIPE (ITEM 2) AND AWWA C509 6" RW GATE VALVES.
- HYDRANT CONNECTIONS ARE TO BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250 OR COMPRESSION COUPLINGS WITH ROD AND

CASING

- CASING SPACER: 8" WIDE STAINLESS STEEL WITH EPDM LINER AND REINFORCED PLASTIC RUNNERS
- CASING PIPE: ASTM A1097 COATED OR UNCOATED STEEL WITH A MIN. 35,000 PSI SMYS.
- FOR 8" WATER MAIN USE 16" CASING
- FOR 12" WATER MAIN USE 20" CASING

TRACER WIRE

- MUST BE INSTALLED WITH A CONTINUOUS RUN OF 12-GAUGE COPPER-CLAD STEEL WIRE.
- BREAKING LOAD: MIN. 450 POUNDS
- MIN. 30 MILS OF BLUE HOPE INSULATION CERTIFIED FOR DIRECT BURIAL
- GROUND ROD: MIN 1.5 LB MAGNESIUM DRIVE-IN ANODE ROD WITH CONNECTED GROUND WIRE.
- CONNECTORS: WATERPROOF, CONTAIN DIELECTRIC SILICONE AND RATED FOR DIRECT BURIAL.
- NON-LOCKING FRICTION FIT, TWIST-ON, AND TAPED CONNECTIONS ARE NOT PERMITTED.

SERVICE CONNECTIONS

- ALL SERVICE CONNECTIONS SHALL BE A MINIMUM OF 1" FOR CONNECTIONS 2" AND SMALLER; USE TYPE K COPPER
- FOR CONNECTIONS 3" AND LARGER; USE CLASS 52 DUCTILE IRON
- WRAPPED IN V-BIO® ENHANCED POLYETHYLENE ENCASEMENT.

BOLTS AND NUTS

- ALL BOLTS AND NUTS ON ALL RETAINED MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE 1 COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF V-BIO® POLYETHYLENE WRAP OR APPROVED EQUAL WRAPPING IN ACCORDANCE WITH ANSI/AWWA C105/A21.5 MODIFIED METHOD "A".

CONCRETE

- FOR BULKHEAD: CLASS QC 1 OR 4,000 PSI HIGH STRENGTH BAGGED CONCRETE MIX
- FOR THRUST BLOCK: CLASS QC 1 WITH 4,000 PSI 28 DAY COMPRESSIVE STRENGTH (ODOT 499)

FROST PROOFING

- USE PRE-FORMED CELLULAR CONCRETE FOAM "GILSULATE 500 XR" AS MANUFACTURED BY GILSULATE INTERNATIONAL, INC. OR APPROVED EQUAL.

LOWERING

- PIPE USED SHALL BE 8" (MIN.) AND 12" (MAX.) IN DIAMETER.
- MAXIMUM BEND ALLOWED TO BE 22.5 DEGREES.

TEE

- PIPE TO BE USED ON TEE: 8" (MIN.) AND 12" (MAX)
- AWWA C110 OR C153 DI CLASS 350 M FITTINGS WITH FBE COATING, CEMENT LINING, POLYETHYLENE ENCASEMENT
- AWWA C219 PIPE COUPLINGS- ROMAC 501 OR SMITH BLAIR 441 DI ONLY
- AWWA C509 DUCTILE IRON RESILIENT WEDGE GATE VALVE (M X M) OR MECHANICAL JOINT RETAINER GLAND FOR PVC PIPE-TYLER UNION OR APPROVED EQUAL

REVISIONS

| NO. | DATE | BY | MATERIAL CRITERIA FOR WATER MAIN INSTALLATION AND REPLACEMENT |
|-----|------|----|---|
| | | | DETAIL NO.: GEN-000A SCALE: N.T.S. DATE: 7/12/2024 |

CITY OF CLEVELAND

DEPARTMENT OF PUBLIC UTILITIES
 DIVISION OF WATER (CWD)

CITY OF CLEVELAND
 DEPARTMENT OF PUBLIC UTILITIES
 DIVISION OF WATER (CWD)

MATERIAL CRITERIA FOR WATER MAIN
 INSTALLATION AND REPLACEMENT
 DETAIL NO.: GEN-000A
 SCALE: N.T.S. DATE: 7/12/2024

4. RESTRAINED JOINTS, AS INDICATED ON THE PLANS, SHALL COMPLY WITH ANSI/AWWA C111/A21.11.

FITTINGS AND APPURTENANCES

1. ALL FITTINGS SHALL BE APPROVED DUCTILE IRON CLASS 350, CEMENT LINED AND FUSION BOND EPOXY COATED CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53.
2. ALL FITTINGS AND PIPES CONNECTED TO FITTINGS SHALL BE RESTRAINED USING A "RETAINED" MECHANICAL JOINT. JOINTS SHALL COMPLY WITH ANSI/AWWA C111/A21.11.
3. ALL FITTINGS MUST HAVE BELL ENDS UNLESS APPROVED BY CLEVELAND WATER.
4. PROVIDE PROPER SUPPORT FOR VALVES, HYDRANTS, AND FITTINGS SUCH THAT THE WEIGHT IS NOT APPLIED TO THE PIPE.

FIELD QUALITY CONTROL

1. PIPE SPIGOT END, BELL END, COUPLER OR FITTING AND ELASTOMERIC GASKET SHALL BE CLEANED IMMEDIATELY BEFORE ASSEMBLY. DO NOT REMOVE FACTORY INSTALLED GASKETS. APPROVED LUBRICANTS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. PIPE CUTTING SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA C600, C900, AND MANUFACTURER REQUIREMENTS. PIPE SHALL BE MARKED AROUND ITS ENTIRE CIRCUMFERENCE TO ENSURE A SQUARE CUT.
3. CUT ENDS OF PIPE SHALL BE BEVELED TO ENSURE PROPER JOINT ASSEMBLY. USE FACTORY-FINISHED PIPE END AS A GUIDE TO DETERMINE THE ANGLE AND LENGTH OF THE BEVEL. DEBURR AND CLEAN CUT PIPE END PRIOR TO BELL INSERTION.
4. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL PLUG ALL OPEN PIPE ENDS WITH WATERTIGHT PLUGS AS PER THE "PREVENTATIVE AND CORRECTIVE MEASURES DURING CONSTRUCTION" SECTION OF THE MOST CURRENT REVISION OF AWWA C-651 AS TO PREVENT THE INFILTRATION OR INTRUSION OF ANY FOREIGN OBJECTS OR MATERIALS. DATE STAMPED DIGITAL PHOTOS SHALL BE PROVIDED FOR EACH WORKDAY DEMONSTRATING THAT PROPER AWWA C-651 METHODS WERE USED TO PLUG ALL OPEN WATER MAIN ENDS. EACH PHOTO SHALL CLEARLY IDENTIFY THE STATION AT WHICH THE PIPE IS PLUGGED BY USE OF A STATION MARKER PLACED AT THE PLUGGED PIPE END. PHOTOS SHALL BE SUBMITTED ON A DAILY BASIS UNLESS OTHERWISE DEFINED BY THE CLEVELAND WATER INSPECTOR OR ENGINEER. ALL PHOTOS TAKEN OVER THE COURSE OF THE PROJECT SHALL BE SUBMITTED BY THE CONTRACTOR AS PART OF THE AS-BUILT SUBMITTAL PHOTOS ARE TO INCLUDE STATIONING MARKERS. AS-BUILTS SHALL BE DEEMED INCOMPLETE WITHOUT SAID COLLECTION OF DIGITAL PHOTOS.

DISINFECTION

1. DISINFECTION FOR WATER MAINS SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MOST CURRENT REVISION OF AWWA C651.

SERVICE CONNECTIONS

1. SADDLE TAPPING SHALL BE PERFORMED FOR PIPES OF ANY NOMINAL SIZE AND PRESSURE CLASS. TAP SIZE IS LIMITED TO 2-INCHES MAXIMUM.
2. TAPPING SLEEVE AND VALVE IS REQUIRED FOR SERVICE CONNECTIONS LARGER THAN 2-INCHES. THRUST RESTRAINT IS REQUIRED.
3. SERVICE CLAMPS OF SADDLES SHALL PROVIDE FULL SUPPORT AROUND THE CIRCUMFERENCE OF THE PIPE AND PROVIDE A BEARING AREA OF SUFFICIENT WIDTH ALONG THE AXIS OF THE PIPE TO PREVENT DISTORTION WHEN THE SADDLE IS TIGHTENED. NARROW U-BOLT-TYPE STRAPS AND SADDLES HAVING LUGS ARE PROHIBITED.

PIPE JOINTS

1. PIPE JOINTS SHALL ADHERE TO ANSI/AWWA C110/A21.10, C111/A21.11, C153/A21.53, C900, C905, C907 AND C909 REQUIREMENTS AND PROCEDURES FOR JOINT METHODS AND MATERIALS.

VERIFIED BY BEING LOCATED USING TYPICAL LOW FREQUENCY (512HZ) LINE TRACING EQUIPMENT. THE LOCATING FIRM SHALL PROVIDE WRITTEN CERTIFICATIONS THAT THE SYSTEM IS COMPLETELY FUNCTIONAL AT TEST COMPLETION.

2. MAGNESIUM GROUND ANODE RODS ARE TO BE INSTALLED AT EACH DEAD END PER THE MANUFACTURER'S INSTRUCTIONS.
3. TRACER LINES SHALL TERMINATE AT A DEDICATED AT-GRADE ACCESS POINT/TEST STATION IDENTIFIED WITH "WATER" ON THE CAP. AT LEAST 2 FEET OF SLACK WIRE SHALL BE PROVIDED AT EACH TERMINATION POINT.
4. LATERAL TRACER LINES ON HYDRANTS, TEES, AND CROSSES ARE NOT TO CUT THE MAIN TRACER WIRE.

HYDROSTATIC PRESSURE TESTING

1. CLEAN PIPE PRIOR TO CONDUCTING HYDROSTATIC PRESSURE TESTING. CLEANING MAY BE COMPLETED VIA FLUSHING OR SWABBING EXCEPT IF DISINFECTION IS CONDUCTED USING THE TABLET METHOD.
2. FILL WATER MAIN AT A CONTINUOUS RATE, 1 FT/SEC MAXIMUM. ONCE FULL, FLUSH THE LINE NOT LESS THAN 3 FT/SEC UNLESS DIRECTED BY CLEVELAND WATER THAT CONDITIONS DO NOT PERMIT THE REQUIRED FLOW RATE TO BE ACHIEVED. FLUSHING SHALL CONTINUE UNTIL THE VOLUME OF WATER IN THE NEWLY INSTALLED MAIN HAS TURNED OVER AT LEAST ONE TIME.
3. THE HYDROSTATIC TEST PRESSURE SHALL BE 75 PSI ABOVE THE STATIC PRESSURE PREVAILING AT THE SITE, BUT IN NO CASE LESS THAN 150 PSI.
4. DURATION: 2 HOURS (WITH PRESSURE MAINTAINED WITHIN 5 PSI OF THE REQUIRED TEST PRESSURE).
5. SOURCE(S) AND CORRECT FOR THE DEFICIENCY. THE HYDROSTATIC PRESSURE TEST SHALL BE REPEATED FOR THE PRESCRIBED DURATION TO VERIFY THAT THE NEW WATER MAIN MEETS THE TEST CRITERIA. WORK PERFORMED TO IDENTIFY AND CORRECT FAILURE SOURCE(S) AND THEIR REMEDIATION MUST BE COMPLETED TO THE SATISFACTION OF CLEVELAND WATER AT NO ADDITIONAL COST.

DEVELOPERS, ENGINEERS, AND CONTRACTORS ARE TO ABIDE BY THE MOST CURRENT VERSION OF THE CLEVELAND WATER NOTES AND DETAILS. THE MOST UP-TO-DATE VERSION CAN BE FOUND AT WWW.CLEVELANDWATER.COM/CONSTRUCTION/ OR AS PROVIDED BY CLEVELAND WATER STAFF.

REFERENCE STANDARDS

1. AWWA C600 - INSTALLATION OF DUCTILE-IRON MAINS AND THEIR APPURTENANCES
1. AWWA C605- UNDERGROUND INSTALLATION OF POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FITTINGS
2. AWWA C651- DISINFECTING WATER MAINS
3. ASTM D2774- STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING
4. ASTM F1668- STANDARD GUIDE FOR CONSTRUCTION PROCEDURES FOR BURIED PLASTIC PIPE

OVERALL PIPE PREPARATION AND EXECUTION

1. ALL DUCTILE IRON PIPE SHALL BE INSTALLED PER THE MOST CURRENT REVISION OF AWWA C600, AWWA MANUAL M41, DIPRA'S "INSTALLATION GUIDE FOR DUCTILE IRON PIPE" (ISBN 0-9542194-0-9) AND "DIRECT TAPPING OF DUCTILE IRON PIPING ENGAGED IN POLYETHYLENE", AS WELL AS THE MANUFACTURER'S INSTRUCTIONS.
2. ALL DUCTILE IRON BURIED WATER MAINS, FITTINGS, VALVES, FIRE HYDRANT BRANCH PIPING AND APPURTENANCES SHALL BE ENCASED WITH V-810® ENHANCED POLYETHYLENE ENCASEMENT INSTALLED IN ACCORDANCE WITH THE MOST CURRENT REVISION OF ANSI/AWWA C-105/A21.5 MODIFIED METHOD "A" AND ASTM A674.
3. PIPE AND ACCESSORIES SHOULD BE INSPECTED FOR DEFECTS AND CLEANLINESS BEFORE THEY ARE LOWERED INTO THE TRENCH. ANY DEFECTIVE OR DAMAGED MATERIAL SHOULD BE REPAIRED OR REPLACED, AND ALL FOREIGN MATTER OR DIRT REMOVED FROM THE INTERIOR OF THE PIPE AND ACCESSORIES BEFORE LOWERING INTO TRENCH.
4. ALL PVC PIPE SHALL BE INSTALLED PER AWWA, C605, ASTM D2774, ASTM F1668, AND MANUFACTURER'S INSTRUCTIONS.
5. ONCE DELIVERED, ALL PVC PIPE MUST BE PROTECTED FROM DIRECT SUN EXPOSURE UNTIL THE PIPE IS INSTALLED AND BACKFILLED.
6. ANY PIPE JOINT THAT HAS BEEN OVER-INSERTED SHALL HAVE BOTH THE BELL PIPE AND THE SPIGOT PIPE REMOVED AND DISCARDED.
7. IN NO CASE SHALL MAINS BE LAID WITH LESS THAN 3'-6" OF COVER IN UNPAVED AREAS AND 3'-0" TO BOTTOM OF SJAB IN PAVED AREAS. MAINS SHALL BE LAID AT A BURY DEPTH OF 6 FT MIN. UNLESS WRITTEN PERMISSION IS PROVIDED BY CLEVELAND WATER.
8. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO WATER MAINS, FIRE HYDRANTS, VALVES, CONNECTION MATERIALS AND OTHER WATER APPURTENANCES SHALL BE NEW AND UNUSED AND SHALL CONFORM TO THE MOST CURRENT CLEVELAND WATER SPECIFICATIONS. ALL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CLEVELAND DIVISION OF WATER STANDARDS.
9. TWO FEET ABOVE THE MAIN, DETECTABLE TRACER TAPE NOTING THE PRESENCE OF A WATER MAIN SHALL BE INSTALLED FOR THE ENTIRE LENGTH OF THE MAIN, INCLUDING HYDRANT LATERALS AND OPEN CUT INSTALLED SERVICE CONNECTIONS.
10. ALL MATERIALS USED SHALL ABIDE BY REQUIREMENTS LISTED ON MATERIAL SPECIFICATION LIST (GEN-000A).

TRACER WIRE FOR PVC PIPE

1. ALL NEW TRACER WIRE INSTALLATIONS SHALL HAVE THEIR FUNCTION

WATER WORK NOTES

CUY-SHELDON RD.

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| CITY OF CLEVELAND DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER (CWD) | | REVISIONS | | GUIDELINES FOR WATER MAIN INSTALLATION AND REPLACEMENT | |
| NO. | DATE | NO. | DATE | DETAIL NO.: | GEN-000B |
| | | | | SCALE: | N.T.S. |
| | | | | DATE: | 5/31/2024 |



PIPE JOINTS SHALL ADHERE TO ANSI/AWWA C110/A21.10, C111/A21.11, C153/A21.53, C900, C905, C907 AND C909 REQUIREMENTS AND PROCEDURES FOR JOINT METHODS AND MATERIALS.

WATERWORK

ALL WATERWORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DRAWINGS OF THE CITY OF CLEVELAND, DEPARTMENT OF PUBLIC UTILITIES, DIVISION OF WATER (CWD), 1201 LAKESIDE AVENUE, CLEVELAND, OHIO (AND THE NOTES & DETAILS SHOWN ON SHEETS 37-45). THE COST OF ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, EXCAVATION, BEDDING AND BACKFILL FOR THE WATERWORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR EACH WATER WORK ITEM. THE REPLACEMENT OF PAYEMENT, WALKS, DRIVES, LANDSCAPING AND ALL OTHER WORK EXCEPTING THE "WATERWORK" ITSELF, SHALL BE AS STIPULATED IN THE CONTRACT SPECIFICATIONS.

ALL PERMITS, FEES AND CWD CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE PERTINENT WATERWORK ITEMS. FOR BIDDING PURPOSES, THE CLEVELAND DIVISION OF WATER CHARGES AND FEES MAY BE FOUND IN SECTION 200 OF THE CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET OR OBTAINED FROM CWD'S WEBSITE AT: <http://www.clevelandwater.com/construction/construction-fees>

WATER WORK

ITEM SPECIAL - MISCELLANEOUS METAL

THE ENGINEER SHALL INSPECT THE EXISTING CASTINGS ON ALL STRUCTURES WITHIN THE WORK LIMITS, EXCEPTING CASTINGS ON STRUCTURES OWNED BY PRIVATE COMPANIES AND CASTINGS ON STRUCTURES TO BE REMOVED AND/OR REPLACED. THOSE CASTINGS THAT THE ENGINEER DETERMINES ARE UNSUITABLE SHALL BE REPLACED. TO PROVIDE FOR THIS CONTINGENCY, AN ESTIMATED QUANTITY OF ITEM SPECIAL - MISCELLANEOUS METAL HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL CASTING MATERIALS SHALL CONFORM TO ITEM 611 OR ITEM 638, IF APPLICABLE, AND HAVE THE PRIOR APPROVAL OF THE ENGINEER.

WHERE IT IS NECESSARY TO REPLACE UNSUITABLE WATER MANHOLE CASTINGS (FRAMES AND COVERS), THEY SHALL BE REPLACED USING CUYAHOGA COUNTY NO. 9 FRAMES AND EITHER NO. 28 COVERS (OR NO. 28 SANITARY COVERS FOR SANITARY OR COMBINED SEWERS) OR NO. 37 COVERS, AS DETAILED ON THE CUYAHOGA COUNTY ENGINEER'S CONSTRUCTION DRAWINGS MH-10C AND MH-11C.

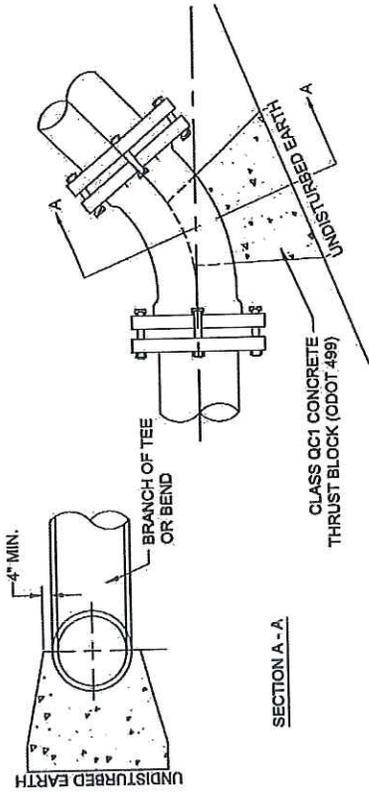
THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, CLEANING, STORAGE AND RESETTING OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE CONTRACTOR'S EXPENSE.

EXCEPT WHERE/IF SPECIFICALLY REQUIRED AND SO SPECIFIED ELSEWHERE IN THE PLANS, THE CONTRACTOR SHALL NOT ORDER ANY OF THE ABOVE CASTINGS UNTIL DIRECTED BY THE ENGINEER, AND IN THE EVENT NO REPLACEMENT CASTINGS ARE REQUIRED, THE ITEM SHALL BE NONPERFORMED.

ALL COST ASSOCIATED WITH FURNISHING ACCEPTABLE NEW CASTING MATERIALS SHALL BE INCLUDED UNDER THIS ITEM. IN ADDITION, THE COST FOR SIMPLY INSTALLING NEW GRATES/COVERS ONLY SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ALL COST ASSOCIATED WITH SETTING NEW CASTINGS (FRAMES AND COVERS/GRATES) TO GRADE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT STRUCTURE (611) ADJUSTED TO GRADE, AS PER PLAN OR RECONSTRUCTED TO GRADE, AS PER PLAN.

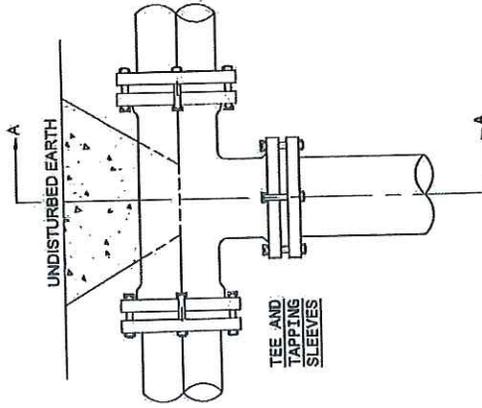
THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM SPECIAL - MISCELLANEOUS METAL _____ LB



SECTION A-A
CLASS QC1 CONCRETE
THRUST BLOCK (ODOT 499)

PLAN (BENDS)



PLAN (TEES)

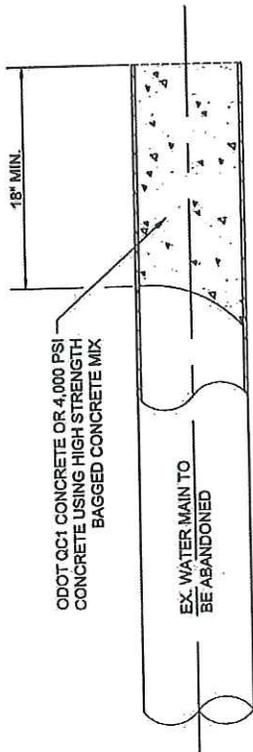
NOTES:

1. DETERMINE SIZE OF THE THRUST BLOCK AS SPECIFIED IN THE CWD DESIGN MANUAL.
2. THRUST BLOCKS ARE NOT REQUIRED WHEN RESTRAINED JOINT FITTINGS ARE INSTALLED.
3. PLACE THRUST BLOCKS AGAINST UNDISTURBED EARTH.
4. USE FORMS WHEN PLACING CONCRETE.
5. DO NOT COVER BOLTS WITH CONCRETE.

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| CONCRETE THRUST BLOCKS FOR TEES AND HORIZONTAL BENDS | |
| DETAIL NO.: | GEN-006 |
| SCALE: N.T.S. | DATE: 5/31/2024 |

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| CITY OF CLEVELAND DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER (CWD) | |
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| REVISIONS | NO. | DATE | BY |
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- NOTE:
1. DRAIN THE WATER MAIN COMPLETELY PRIOR TO INSTALLING PLUGS.

| | |
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| PLUGGING ABANDONED WATER MAIN ENDS | |
| DETAIL NO.: | GEN-004 |
| SCALE: N.T.S. | DATE: 10/31/2023 |

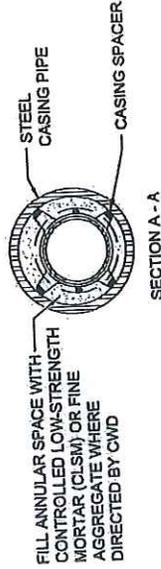
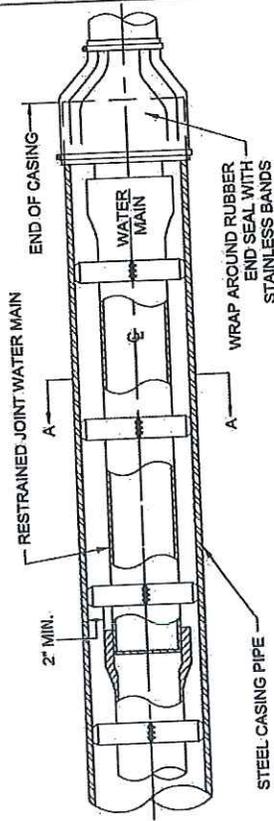
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| CITY OF CLEVELAND DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER (CWD) | |
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| REVISIONS | NO. | DATE | BY |
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WATER WORK DETAILS

CUY-SHELDON RD.



NOTES:

STEEL CASING PIPE:

- ASTM A1097
- MIN. 35,000 PSI SMYS
- MIN. WALL THICKNESS = 3/8"
- MIN. 2" CLEARANCE BETWEEN OUTSIDE DIAMETER OF PIPE JOINT AND INSIDE DIAMETER OF CASING.

CASING SPACERS:

- 8" WIDE STAINLESS STEEL WITH EPDM LINER AND REINFORCED PLASTIC RUNNERS.

SPACING ON PVC PIPE:

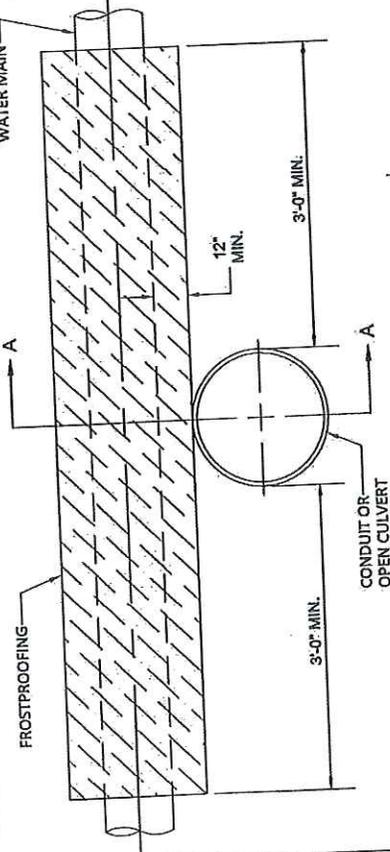
- 1 AT END OF BELL
- 1 AT JOINT INSERTION LINE
- 1 AT PIPE MIDPOINT

SPACING ON DUCTILE IRON PIPE:

- MAX. 8 FT



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| REVISIONS | | CITY OF CLEVELAND | | WATER MAIN IN | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | STEEL CASING |
| | | | DIVISION OF WATER (CWD) | SCALE: N.T.S. | GEN-016 |
| | | | | DATE: 7/9/2024 | |



USE FORMS AS NEEDED TO PROVIDE REQUIRED DIMENSIONS

SECTION A-A

NOTES:

1. INSTALL FROSTPROOFING WHERE DIRECTED BY CWD AND:
 - WHERE WATER MAIN IS INSTALLED WITH LESS THAN 5 FT OF COVER.
 - WHERE WATER MAIN CROSSES OVER STORM SEWERS 24-INCHES AND LARGER IN DIAMETER.
 - WHERE WATER MAIN CROSSES OVER OR UNDER OPEN ENDED CULVERTS.
2. DO NOT INSTALL WATER MAIN WITH LESS THAN 3.5 FT OF COVER IN UNPAVED AREAS.
3. DO NOT INSTALL WATER MAIN WITH LESS THAN 3 FT OF COVER BELOW PAVEMENT SUBGRADE.
4. REFER TO MATERIAL CRITERIA DETAIL, (GEN-000A) FOR FROSTPROOFING PRODUCT REQUIREMENTS.

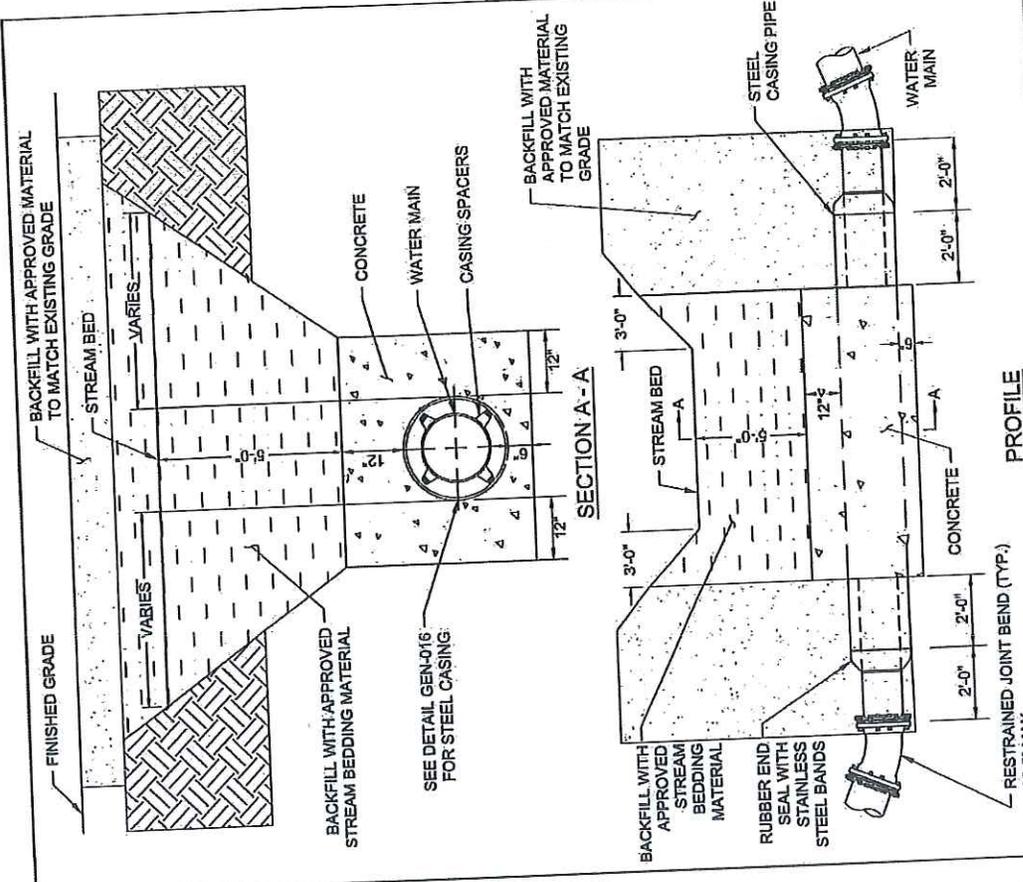


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| REVISIONS | | CITY OF CLEVELAND | | TYPICAL FROSTPROOFING DETAIL | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | GEN-009 |
| | | | DIVISION OF WATER (CWD) | SCALE: N.T.S. | DATE: 5/31/2024 |

WATER WORK DETAILS

CUY-SHELDON RD.

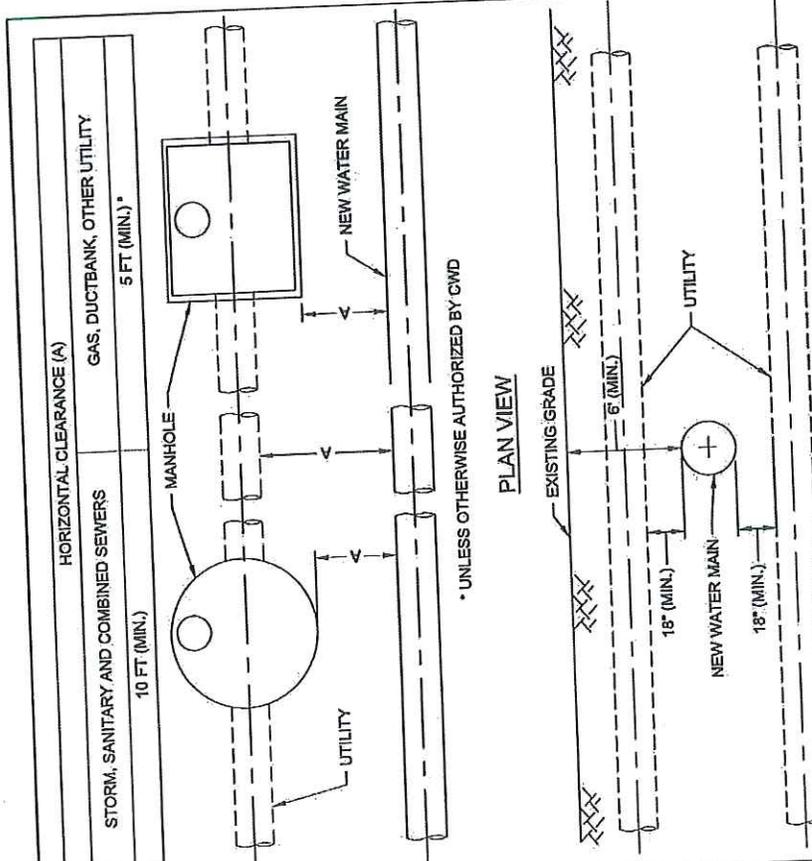
42-53



CROSSING LARGE DITCHES OR SMALL STREAMS - OPEN CUT METHOD
 DETAIL NO.: GEN-020
 SCALE: N.T.S. | DATE: 5/31/2024

CITY OF CLEVELAND
 DEPARTMENT OF PUBLIC UTILITIES
 DIVISION OF WATER (CWD)

| NO. | DATE | BY |
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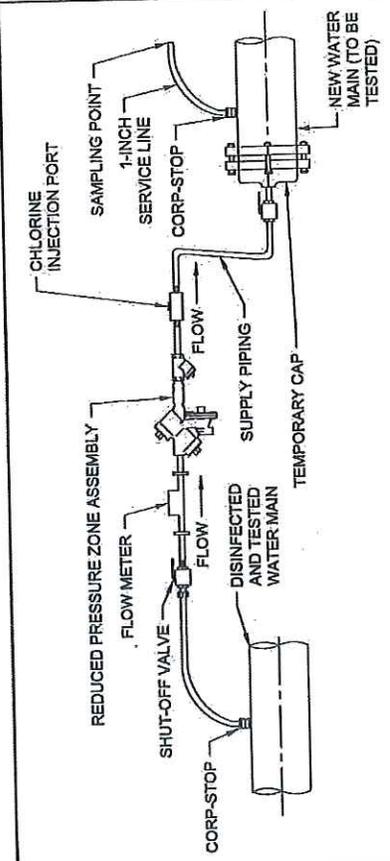
- NOTES:
1. ADJUST HORIZONTAL OR VERTICAL ALIGNMENT AS NEEDED TO ACHIEVE REQUIRED SEPARATION. SEE DETAILS GEN-101 AND GEN-102 FOR VERTICAL BEND RESTRAINT AND LOWERING REQUIREMENTS.
 2. IF EXISTING SEPARATION IS LESS THAN REQUIRED, SEPARATION MUST BE IMPROVED OR MAINTAINED.
 3. SEE SECTION 8.8 OF THE MOST CURRENT VERSION OF '10 STATES STANDARDS' - RECOMMENDED STANDARDS FOR WATER WORKS FOR SEPARATION FROM SEWERS AND SOURCES OF CONTAMINATION.

HORIZONTAL AND VERTICAL CLEARANCE FOR UTILITIES
 DETAIL NO.: GEN-017
 SCALE: N.T.S. | DATE: 5/31/2024

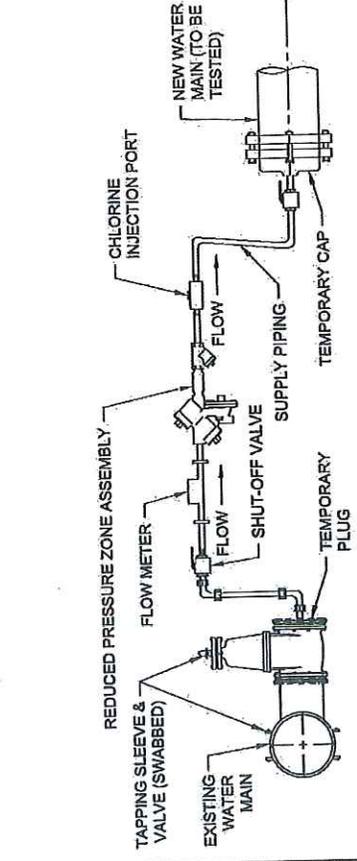
CITY OF CLEVELAND
 DEPARTMENT OF PUBLIC UTILITIES
 DIVISION OF WATER (CWD)

| NO. | DATE | BY |
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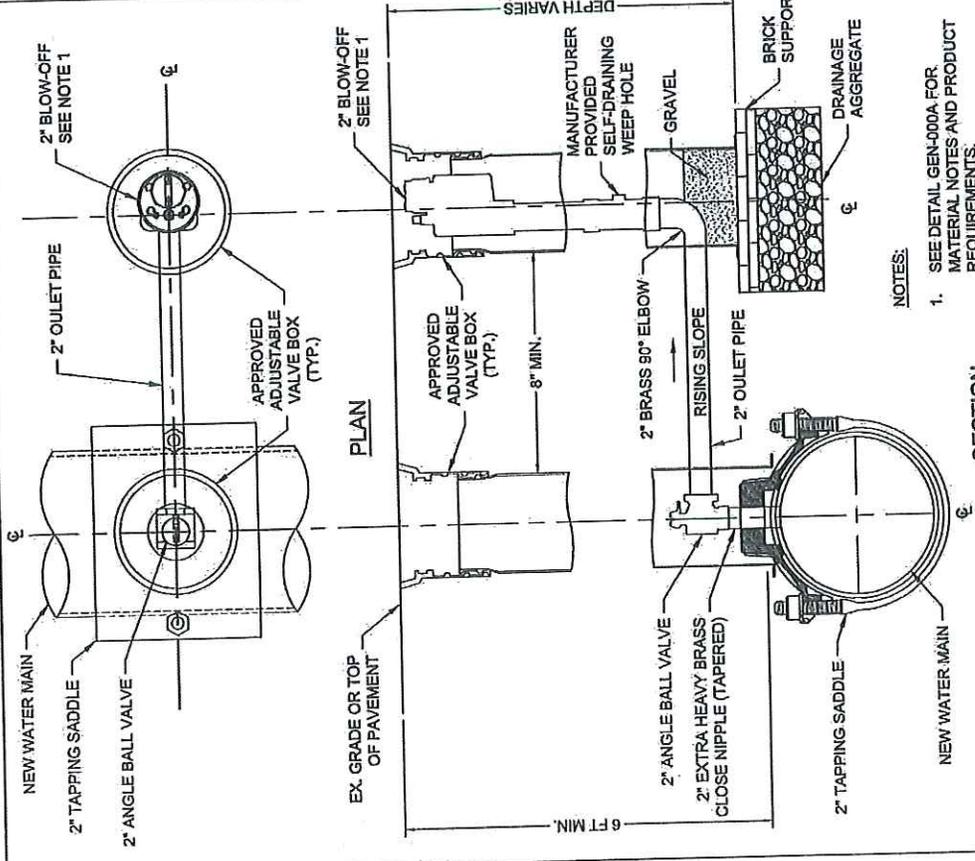


OPTION A - FILLING FROM EXISTING MAIN



OPTION B - FILLING FROM MJ X MJ GATE VALVE OR TAPPING SLEEVE & VALVE

| | | | | | |
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| REVISIONS: | | CITY OF CLEVELAND | | CHLORINATION PORT FOR | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | GEN-003 |
| | | | DIVISION OF WATER (CWD) | SCALE: N.T.S. | DATE: 5/29/2024 |



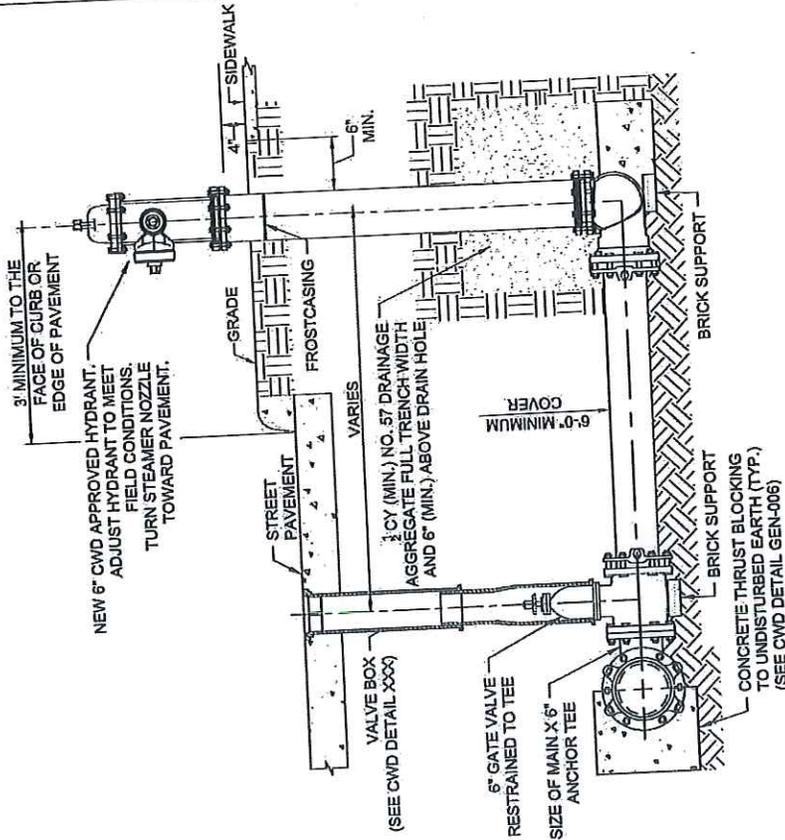
SECTION

- NOTES:
- SEE DETAIL GEN-000A FOR MATERIAL NOTES AND PRODUCT REQUIREMENTS.

| | | | | | |
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| REVISIONS: | | CITY OF CLEVELAND | | 2" AIR RELIEF/FLUSHING OUTLET | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | VALVE ASSEMBLY | DETAIL NO.: |
| | | | DIVISION OF WATER (CWD) | GEN-003 | SCALE: N.T.S. |
| | | | | | DATE: 5/31/2024 |

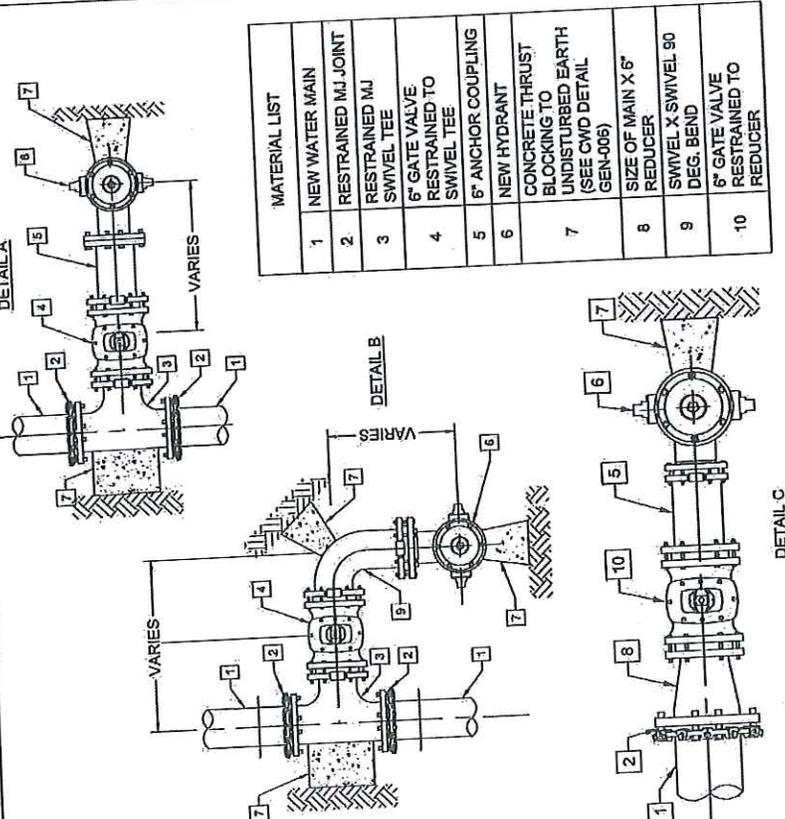
WATER WORK DETAILS

CUY-SHELDON RD.



- NOTES:
- SEE DETAILS GEN-H02, GEN-H03, GEN-H08 AND GEN-H09 FOR HYDRANT INSTALLATIONS.

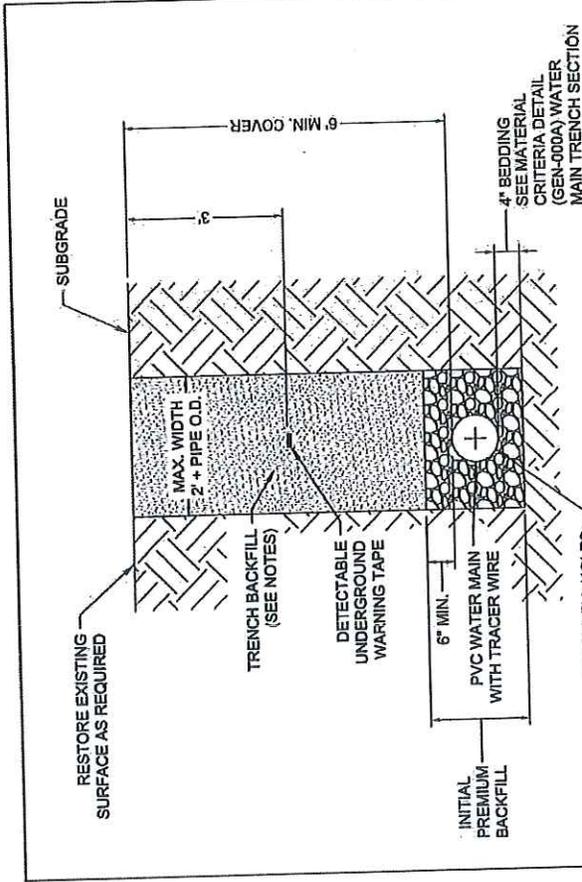
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| REVISIONS | | CITY OF CLEVELAND | | 6" HYDRANT | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | GEN-H13 |
| | | | DIVISION OF WATER (CWD) | SCALE: | N.T.S. |
| | | | | DATE: | 5/28/2024 |



| MATERIAL LIST | |
|---------------|--|
| 1 | NEW WATER MAIN |
| 2 | RESTRAINED MJ JOINT |
| 3 | RESTRAINED MJ SWIVEL TEE |
| 4 | 6" GATE VALVE RESTRAINED TO SWIVEL TEE |
| 5 | 6" ANCHOR COUPLING |
| 6 | NEW HYDRANT |
| 7 | CONCRETE THRUST BLOCKING TO UNDISTURBED EARTH (SEE CWD DETAIL GEN-006) |
| 8 | SIZE OF MAIN X 6" REDUCER |
| 9 | SWIVEL X SWIVEL 90 DEG. BEND |
| 10 | 6" GATE VALVE RESTRAINED TO REDUCER |

- NOTES:
- INSTALL RESTRAINED JOINTS ON ALL PIPE AND FITTINGS.
 - ADJUST NEW HYDRANT TO MEET FIELD CONDITIONS. TURN STEAMER NOZZLE TOWARD PAVEMENT.
 - INSTALL NEW 6" PIPE WITH 36 LF (MIN.) FULLY RESTRAINED JOINTS OR NEW 12" PIPE WITH \$4 LF (MIN.) RESTRAINED JOINTS.

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| REVISIONS | | CITY OF CLEVELAND | | TYPICAL NEW HYDRANT | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | GEN-H09 |
| | | | DIVISION OF WATER (CWD) | SCALE: | N.T.S. |
| | | | | DATE: | 5/31/2024 |



IN EARTH

NOTES:

1. PLACE AND COMPACT INITIAL PREMIUM BACKFILL USING HAND-HELD OR WALK BEHIND EQUIPMENT. DO NOT ALLOW BACKFILL MATERIAL TO FREE-FALL INTO TRENCH.
2. UNDER EXISTING AND FUTURE PAVEMENT, SIDEWALKS, AND DRIVEWAYS WITHIN THE CITY OF CLEVELAND CORPORATION LIMITS, PLACE AND COMPACT CONTROLLED LOW STRENGTH MORTAR - CONTROLLED DENSITY FILL (CLSM-CDF) TRENCH BACKFILL TO PAVEMENT SUBGRADE. PLACE CLSM-CDF IN OTHER MUNICIPALITIES WHERE PERMITTED OR DIRECTED.
3. UNDER EXISTING AND FUTURE PAVEMENT, SIDEWALKS, AND DRIVEWAYS IN OTHER MUNICIPALITIES WHERE PERMITTED, PLACE AND COMPACT PREMIUM TRENCH BACKFILL MATERIAL IN MAXIMUM 6" LIFTS TO 95% OF STANDARD PROCTOR AT +12% OF OPTIMUM MOISTURE CONTENT TO PAVEMENT SUBGRADE. IF NOT PERMITTED, FOLLOW LOCAL REQUIREMENTS.
4. IN LAWNS AND STREETScape AREAS, PLACE AND COMPACT SUITABLE TRENCH BACKFILL MATERIAL IN MAXIMUM 6" LIFTS TO 85% OF STANDARD PROCTOR AT +7-5% OF OPTIMUM MOISTURE CONTENT TO FINAL RESTORATION SUBGRADE.

| | | | | | |
|-----------|------|-------------------|--------------------------------|---------------------------|-----------------------|
| REVISIONS | | CITY OF CLEVELAND | | WATER MAIN TRENCH DETAILS | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | PVC-001 |
| | | | DIVISION OF WATER (CWD) | SCALE: | N.T.S. DATE: 7/9/2024 |

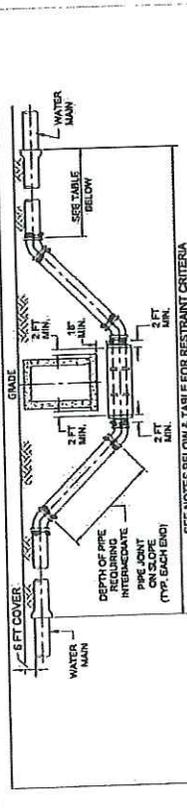
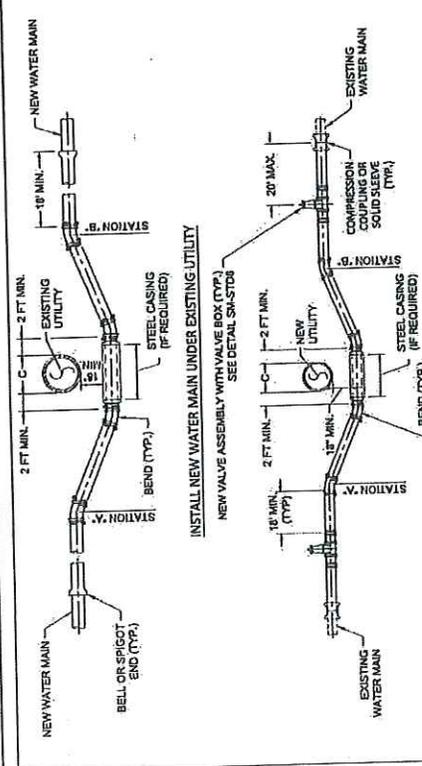


TABLE 1 - RESTRAINED PIPE CRITERIA FOR PIPE LOWERING

| DIAMETER | BEND | LOWERED PRESSURE | RESTRAINED LENGTHS |
|----------|---------|------------------|--------------------|
| 8" | 11.25' | 0-275 PSI | 1 |
| | 22.5' | 0-250 PSI | 2 |
| | 45' (1) | 0-125 PSI | 1 |
| 12" | 11.25' | 0-275 PSI | 2 |
| | 22.5' | 0-250 PSI | 1 |
| | 45' (1) | 0-125 PSI | 1 |
| 18" | 11.25' | 0-275 PSI | 1 |
| | 22.5' | 0-250 PSI | 1 |
| | 45' (1) | 0-125 PSI | 1 |

- NOTES:
1. TO LOWER WATER MAIN TO CLEAR OBSTACLE WHERE DEPTH OF PIPE LOWERING REQUIRES AN INTERMEDIATE JOINT ON SLOPE, THE ENTIRE OFFSET SHALL HAVE D.I. CLASS 500S OR ANNA C-400 RESTRAINED JOINT PIPE AS APPROVED BY CWD. JOINT RESTRAINT SHALL EXTEND BEYOND TOP VERTICAL BEND TO THE LIMITS SHOWN IN TABLE 1.
 2. STATIC PRESSURE CALCULATIONS FOR RESTRAINED LENGTHS INCLUDE 7.5 PSI FOR TESTING.
 3. 45' BENDS REQUIRE CWD AUTHORIZATION.
 4. SEE DETAIL GEN-102 FOR ADDITIONAL REQUIREMENTS.

| | | | | | |
|-----------|------|-------------------|--------------------------------|------------------------------------|------------------------|
| REVISIONS | | CITY OF CLEVELAND | | WATER MAINS UNDER EXISTING UTILITY | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | 688102 |
| | | | DIVISION OF WATER (CWD) | SCALE: | N.T.S. DATE: 5/31/2024 |

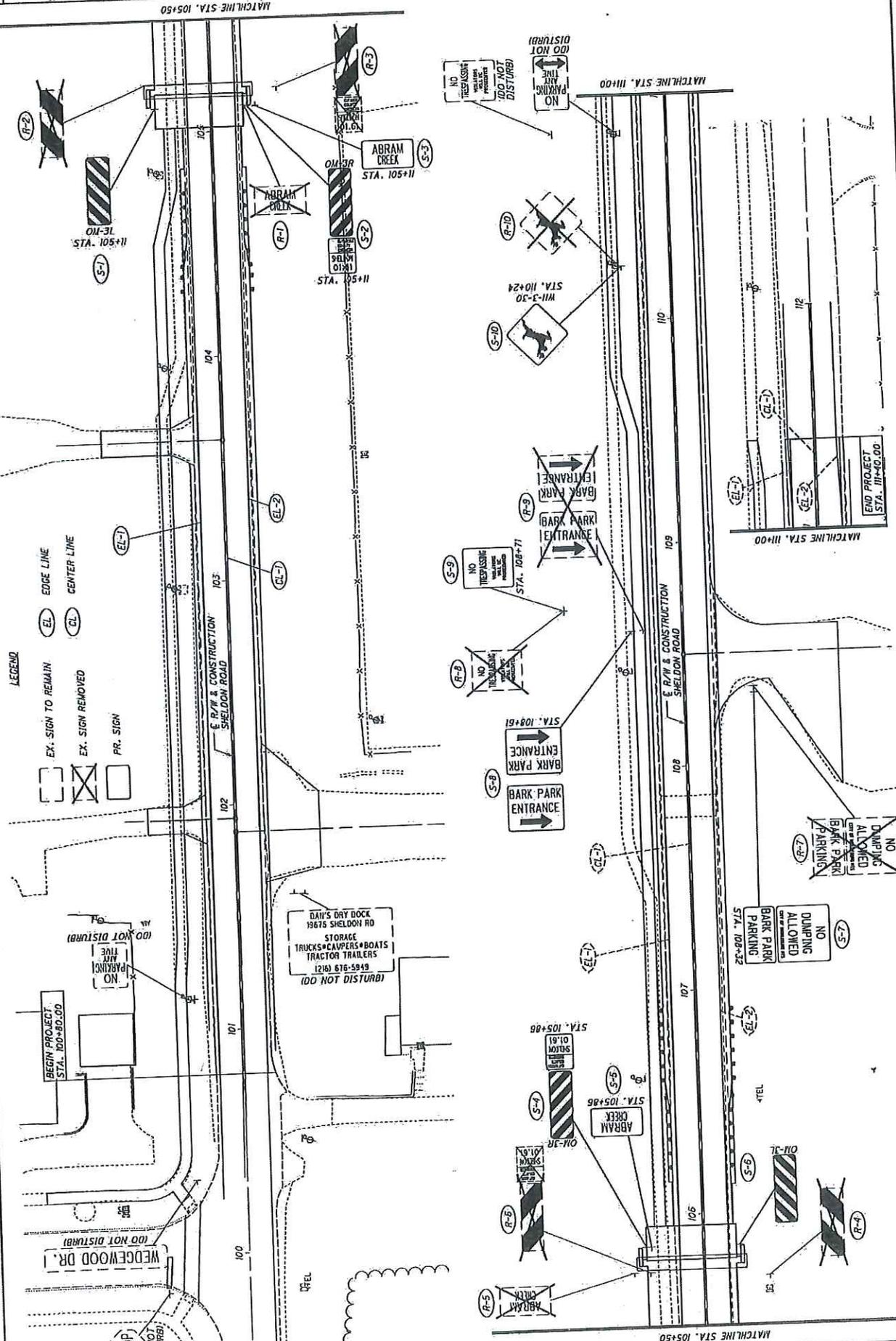


NOTES:

1. MAX BEND ANGLE IS 22.5 DEGREES.
2. NO JOINTS ARE PERMITTED WITHIN 18 FT OF UPPER VERTICAL BENDS.
3. DO NOT INSTALL NEW WATER SERVICE LINES BETWEEN STATIONS 'A' AND 'B'.
4. PROVIDE TEMPORARY WATER SERVICE TO EXISTING CUSTOMERS THROUGHOUT CONSTRUCTION.
5. STEEL CASING IS REQUIRED IF 'C' IS 24' OR LARGER.

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|-----------|------|-------------------|--------------------------------|-----------------------------|------------------------|
| REVISIONS | | CITY OF CLEVELAND | | WATER MAINS UNDER UTILITIES | |
| NO. | DATE | BY | DEPARTMENT OF PUBLIC UTILITIES | DETAIL NO.: | 688102 |
| | | | DIVISION OF WATER (CWD) | SCALE: | N.T.S. DATE: 5/31/2024 |

MARKING AND PAVEMENT



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ITEM SPECIAL, MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. THIS SHALL BE MADE BY ODOT'S REPRESENTATIVE WORKING IN CONJUNCTION WITH THE CONTRACTOR. INDIVIDUAL LUMINAIRES WHICH ARE IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT WORKING SHALL BE REPAIRED, REPLACED, OR REWIRING AS NECESSARY BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. CALLING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE RESPONSIBLE FOR MAINTAINING THE EXISTING ROADWAYS DUE TO TRAFFIC CRASHES.

REPLACEMENT OF KNOCKED DOWN UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY EXCEED 3% FOOT-CANDLES PER SQUARE FOOT TO MINIMUM UNIFORMITY NOT EXCEED 3:1. FOOT-CANDLES PER SQUARE FOOT SHALL NOT BE LESS THAN 30 FEET, AND UNIFORMITY OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET. TEMPORARY OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN 8" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRICAL SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED, IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR REPAIRED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING. ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

WHEN THE PROJECT BEGINS AND THE CONTRACTOR HAS TAKEN OVER MAINTENANCE OF THE EXISTING FACILITIES, THE CONTRACTOR IS RESPONSIBLE FOR THE REQUIRED LAYOUTS AND LOCATIONS OF THE EXISTING AND PROPOSED ELECTRICAL CIRCUITS AND RELATED UNDERGROUND ELECTRICAL CIRCUITS. THE CONTRACTOR SHALL LOCATE AND MARK ALL UNDERGROUND ELECTRICAL CIRCUITS INCLUDING TRAFFIC LOOPS AND LOOP LEADS FOR THE DURATION OF THE PROJECT.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAID DOWN AFTER THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN BROKE DOWN AFTER THE AFORESAID INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

LIGHT POLE ANCHOR BOLTS ON STRUCTURES

FOR LIGHT POLES MOUNTED ON THE BRIDGE PARAPET, THE REQUIRED ANCHOR BOLTS IN LENGTH AND CENTER TO CENTER FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION, THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

IN ADDITION, THERE IS NO FOUNDATION CONSTRUCTION ITEM IN WHICH TO INCLUDE THE SETTING OF THE ANCHOR BOLTS INTO THE PARAPET IS ALSO PART OF THIS WORK.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH CRAM ITEM 625, LIGHT POLE ANCHOR BOLTS ON STRUCTURE AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

CONDUIT EXPANSION AND DEFLECTION

EXPANSION FITTINGS SHALL BE OZ TYPE AX, GROUND WINDS TYPE XIG, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL PROVIDE EITHER 4 OR 8 ARCHES. TOTAL MOVEMENT AS SPECIFIED BY THE PLAN DETAILS AND SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS.

DEFLECTION COUPLINGS SHALL BE OZ TYPE DX, GROUND WINDS TYPE XD, OR EQUAL APPROVED BY THE ENGINEER. EACH DEFLECTION COUPLING SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS. MINIMUM DEFLECTION CAPABILITY: 28".

EXPANSION AND DEFLECTION FITTINGS FULLY OR PARTIALLY EMBEDDED IN CONCRETE, COUPLING OR SIMILAR MATERIAL SHALL BE COMPLETELY WRAPPED IN A NEOPRENE SLEEVE OR SHEET OF 1/2-INCH MINIMUM THICKNESS.

SECURE NEOPRENE WRAP WITH TIE-WRAPS PRIOR TO EMBEDEDMENT OF THE FITTING.

UNDERDRAINS FOR PULL BOXES

UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHEN THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 40 FEET. ITEM 611 - PRECAST REINFORCED CONCRETE 6" - 4" CONDUIT, TYPE E AND TYPE F, SHALL BE USED FOR THIS PURPOSE. OUTLET IS INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE.

ITEM 625 - UNDERGROUND WARNING MARKING TAPE AS PER PLAN

THE LOCATION OF CONDUIT IN TRENCH SHALL BE MARKED BY THE USE OF A PLASTIC IDENTIFYING TAPE BURIED IN THAT TRENCH ABOVE THE CONDUIT LINE. IN ADDITION TO THE REQUIREMENTS OF 625-16, 25-23, THE TAPE SHALL BE RED WITH THE WORDS "ELECTRIC" PRINTED IN BLACK LETTERS ON ONE SIDE ONLY.

THE CONTRACTOR SHALL BURY THE TAPE IN THE TRENCH WITH ONE STRIP PLACED APPROXIMATELY DOWN THE CENTER LINE AND 6" TO 10" BELOW THE FINAL GRADE. THE TAPE SHALL BE "TERRA TAPE", "ALLEN SYSTEMS", OR AN EQUAL AS APPROVED BY THE ENGINEER IN ADVANCE.

PAYMENT FOR ITEM 625 - UNDERGROUND WARNING MARKING TAPE, AS PER PLAN WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT COMPLETE AND IN PLACE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DESCRIBED HEREIN.

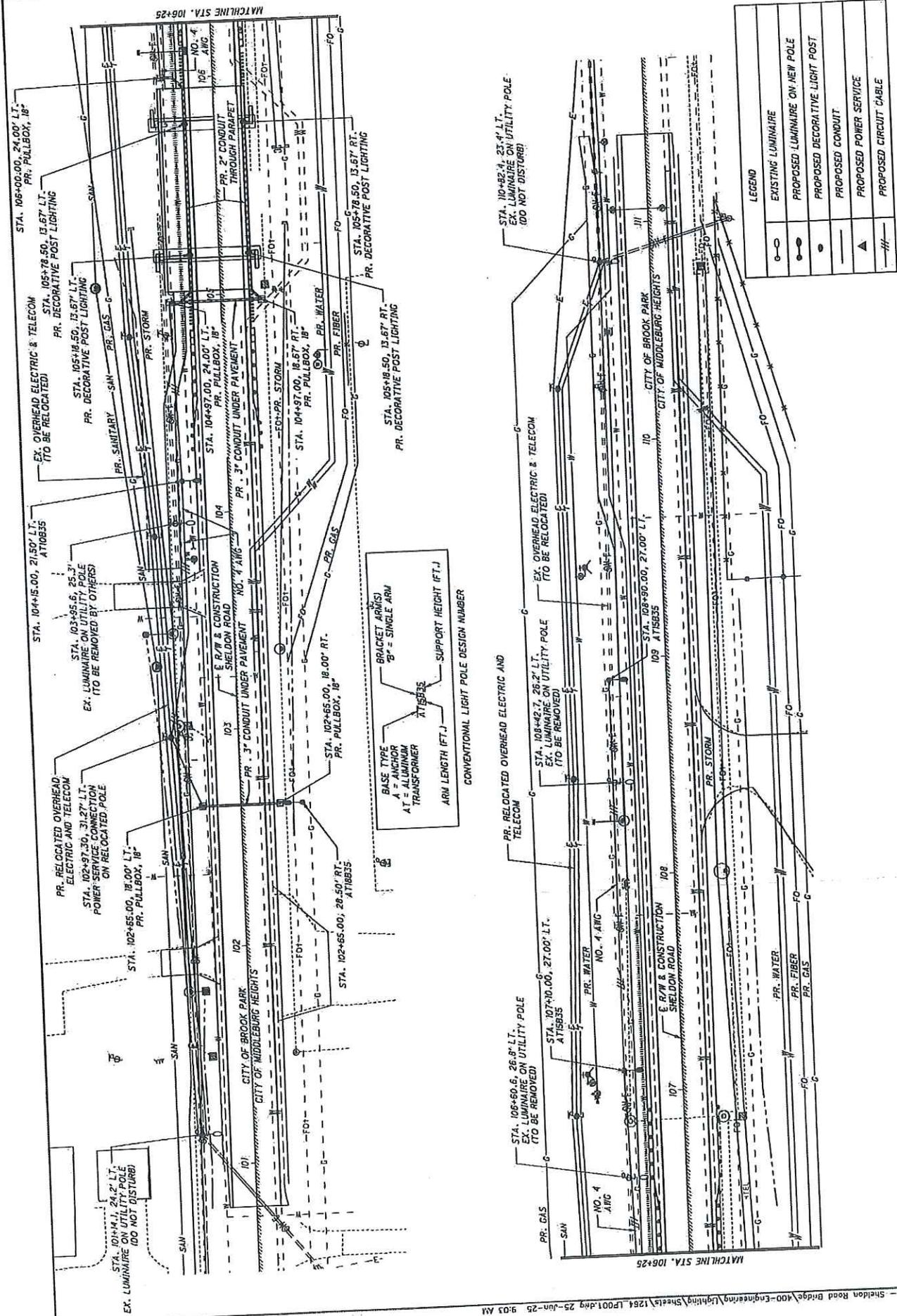
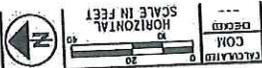
ITEM 625 - GROUND ROD AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 625-16, THIS ITEM SHALL CONSIST OF FURNISHING AND RUNNING OF A SEVEN (7) STRAND, NO 4, ANG COPPER WIRE FROM THE TOP OF THE GROUND ROD AND ATTACHING IT TO THE NEUTRAL BAR IN THE CABINET. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH.

POLE FOUNDATION ELEVATIONS

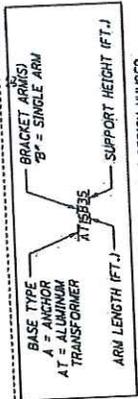
ELEVATIONS SHOWN IN THE PLANS FOR POLE FOUNDATIONS ARE FOR COMPUTATIONAL PURPOSES ONLY. THE ACTUAL ELEVATION OF THE FOUNDATION SHALL BE IN ACCORDANCE WITH TRAFFIC CODE 7C-21.1 PROVIDED THE EXISTING SLOPE IS LESS THAN 6:1.

AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR GREATER, THE BURIED DEPTH OF THE FOUNDATION, AS SHOWN IN SECTION 7C-21.1 SHALL APPLY TO THE LOW SIDE OF THE SLOPE. THE TOP OF THE FOUNDATION SHALL BE SET 2 INCHES (50 MILLIMETERS) ABOVE THE EXISTING SURFACE ON THE HIGH SIDE OF THE SLOPE. THE ADDITIONAL DEPTH OF THE FOUNDATION NECESSARY TO MEET THESE REQUIREMENTS SHALL BE ADDED TO THE FORMED TOP.



LEGEND

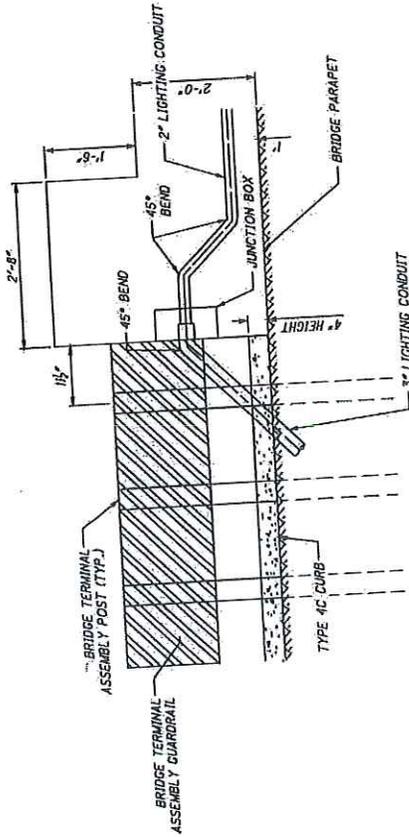
| | |
|---|--------------------------------|
| ○ | EXISTING LUMINAIRE |
| ○ | PROPOSED LUMINAIRE ON NEW POLE |
| ○ | PROPOSED DECORATIVE LIGHT POST |
| — | PROPOSED CONDUIT |
| ▲ | PROPOSED POWER SERVICE |
| — | PROPOSED CIRCUIT CABLE |



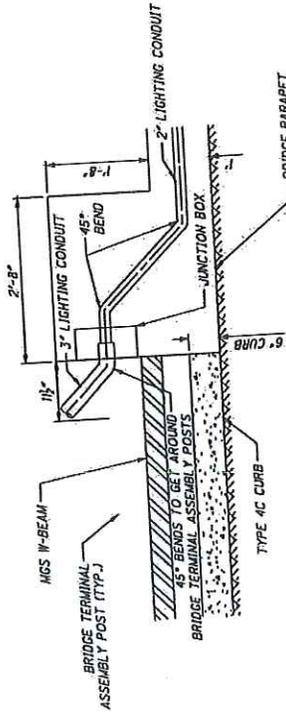
CONVENTIONAL LIGHT POLE DESIGN NUMBER

MATCHLINE STA. 106+25

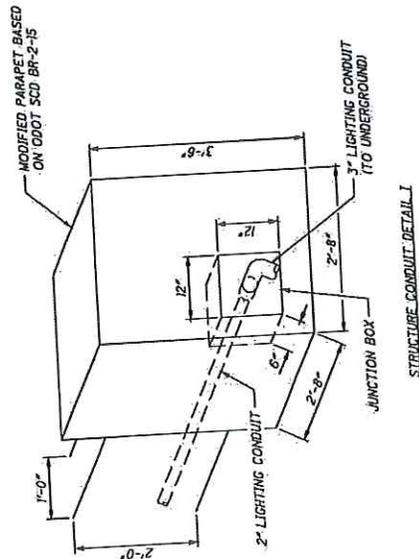
MATCHLINE STA. 106+25



STRUCTURE CONDUIT DETAIL II - ELEVATION VIEW



STRUCTURE CONDUIT DETAIL II - PLAN VIEW

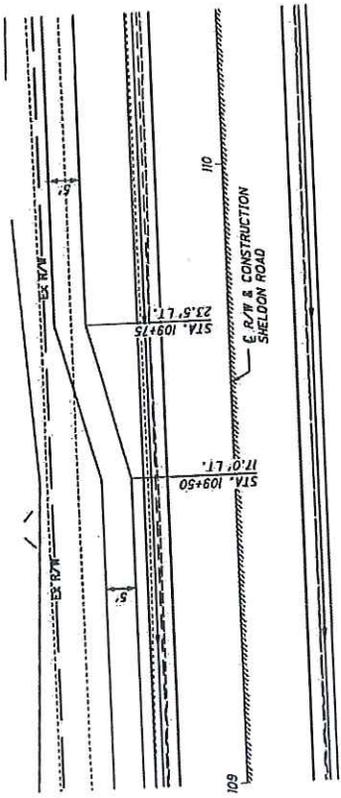


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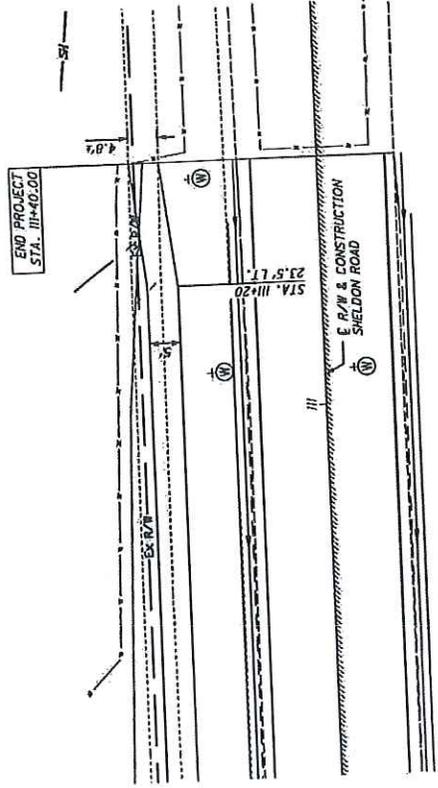
SIDEWALK DETAILS

CUY-SHELDON RD.

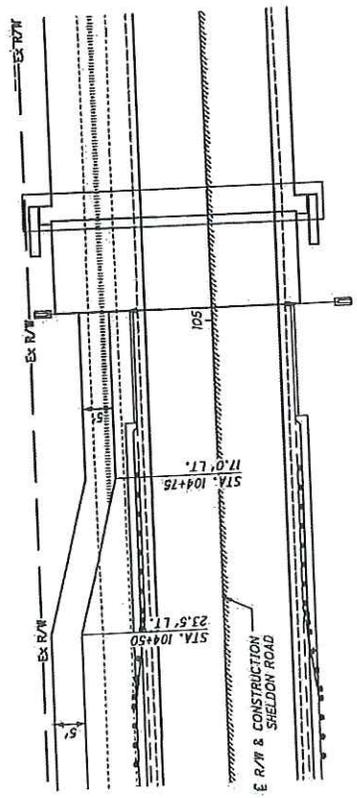
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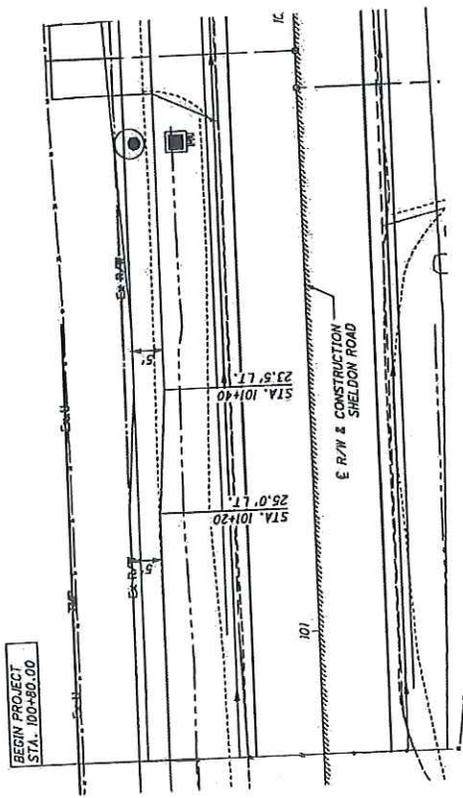
SIDEWALK SHIFT DETAILS
EAST SIDE OF BRIDGE



SIDEWALK SHIFT DETAILS
EAST END OF PROJECT

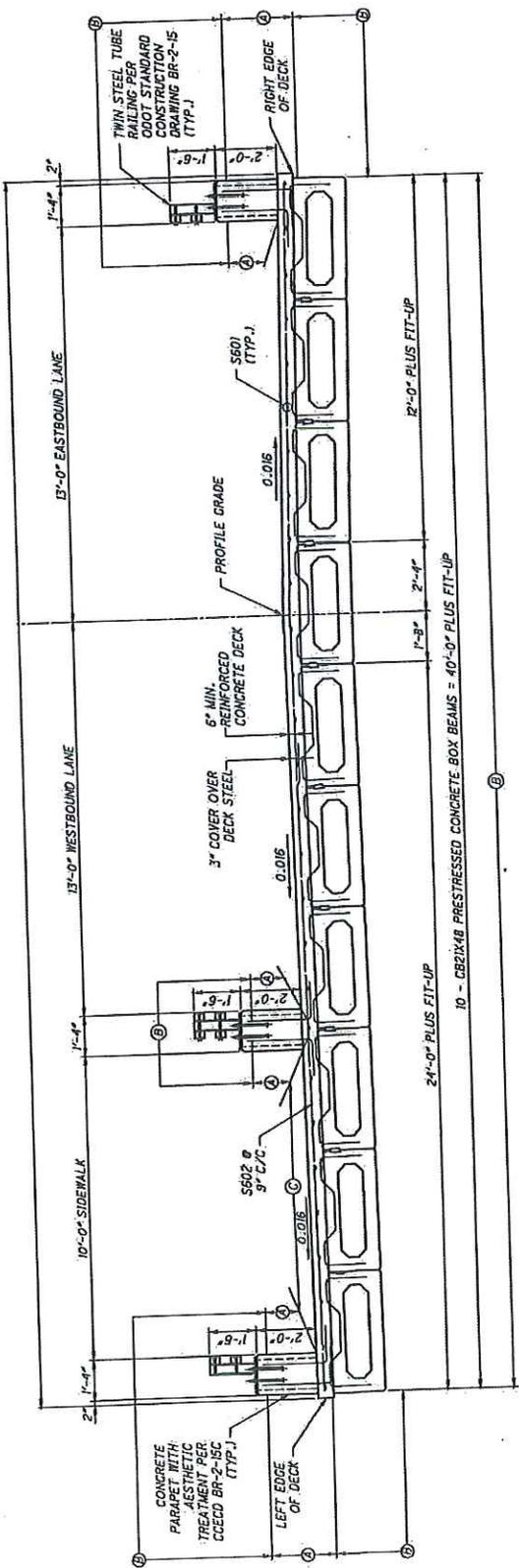


SIDEWALK SHIFT DETAILS
WEST SIDE OF BRIDGE



SIDEWALK SHIFT DETAILS
WEST END OF PROJECT

| | | |
|-----------------------|------|----------|
| DESIGNED | DRAN | DATE |
| CHECKED | WMB | 11-15-24 |
| REVISION | DATE | |
| STRUCTURE FILE NUMBER | | 1830996 |



TRANSVERSE SECTION

LEGEND

- Ⓐ ITEM 511 - CONCRETE, MISC.; ARCHITECTURAL TREATMENT, SUPERSTRUCTURE
- Ⓑ ITEM SPECIAL - SEALING, MISC.; ELASTOMERIC PROTECTIVE AND DECORATIVE CONCRETE COATING, SEE SHEET 55/53 FOR ADDITIONAL DETAILS.
- Ⓒ ITEM 512 - SEALING OF CONCRETE SURFACES NON - EPOXY (CLAR COATING).

NOTES

1. PRESTRESSED CONCRETE BOX BEAMS DETAILS SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING PS80-2-07.
2. FOR ADDITIONAL PARAPET AND RAILING DETAILS, SEE CUY/HOCA COUNTY ENGINEER CONSTRUCTION MANUAL (CCECO) BR-2-15C. (PARAPET AESTHETIC DETAIL AND TWIN STEEL TUBE RAILING PER ODOT STD. BRIDGE DRG. BR-2-15).

EXHIBIT F



*Community Cost-Share Program
Transfer Funds to NEORS D Request*

**Community Cost-Share Program
REQUEST FUND TRANSFER
TO NORTHEAST OHIO REGIONAL SEWER DISTRICT**

Project Information

Member Community: _____

Project Title: _____

Amount to be Transferred to NEORS D: _____

Authorized Signature

I certify that the costs outlined in this reimbursement request have been incurred in accordance with the approved project proposal as set forth in the Community Cost-Share agreement document(s). Furthermore, I affirm that the information contained herein is, to the best of my knowledge and belief, accurate and complete.

Name (print or type): _____

Title: _____

Telephone Number: _____

Email Address: _____

Signature: _____

Date: _____