

CITY OF MARSHFIELD

**SW INTERCEPTOR SEWER
RELOCATION AND ABANDONMENT
MH Y1 TO MH 087**

CONTRACT 2020-04

PLAN NO. 1657

PROJECT NO. 352328



MARSHFIELD

• The City in the Center •

CONTRACT 2020-04

City Contact:

Thomas R. Turchi, P.E.

City Engineer

City of Marshfield

207 West 6th Street

Marshfield, WI 54449

Email: tom@ci.marshfield.wi.us

Web Site: www.ci.marshfield.wi.us

Phone: (715) 486-2034

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OFFICIAL NOTICE TO BIDDERS**CITY OF MARSHFIELD****STREET AND UTILITY RECONSTRUCTION****SW INTERCEPTOR SEWER RELOCATION AND ABANDONMENT MH Y1 TO MH O87****CONTRACT 2020-04**

Notice is given that the Board of Public Works will receive bids until 4:00 PM; Wednesday, August 12th, 2020; this project is valued about \$110,000.

The QuestCDN eBidDoc Number for this project is: 7230887

Bids will then be reviewed, tabulated, and submitted to the Board of Public Works on Monday, August 17th, 2020 for consideration and recommendation to the Common Council at their regular meeting on Tuesday, August 25th, 2020 for Award of Contract.

ESTIMATE OF PRINCIPAL ITEMS

1.	18-Inch PVC Sanitary Sewer Main	217 LF
2.	Cast-in-Place Sanitary Manhole (O89)	1 EA
3.	Install Precast Sanitary Manhole (Y1)	1 EA
4.	Connect to Existing Sanitary Sewer	3 EA
5.	Abandon-Fill Sanitary Sewer	726 LF
6.	Abandon Sanitary Sewer Manhole	4 EA
7.	Bypass Pumping	1 LS
8.	Site Maintenance & Restoration	1 LS
9.	Erosion Control	1 LS
10.	Traffic Control	1 LS
11.	Saw Asphaltic Surface	356 LF
12.	Remove Asphaltic Surface	220 SY
13.	Remove Curb & Gutter	60 LF
14.	Access Road Restoration (9 in CABC)	220 SY
15.	Asphalt Pavement (by others)	220 SY
16.	4-Inch D. I. Water Main Vertical Offset	2 EA
17.	4-Inch D. I. Water Main Pipe	10 LF

Bid Security in an amount equal to five percent (5%) of the total amount of the bid shall be submitted with each bid and made out in the name of the City of Marshfield, Wisconsin, as a guarantee that, if the bid is accepted, the Bidder will execute and file the proper Contract and Performance Bond within twenty (20) days after award of the bid. Upon the execution of the Contract by the City, the Security will be released.

No Proposal may be withdrawn by the Bidder for a period of thirty (30) days following the date of the bid opening, within which time the Contract will be awarded by the Common Council.

Bidding documents can be downloaded at www.questcdn.com under Login using QuestCDN #7230887 for a non-refundable charge of \$50.00. Contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in membership registration, downloading this digital project information and vBid Online Bid Submittal. To submit a vBid online bid (which is required for this project) you must download the project document file from QuestCDN which will add you to the plan holders list and gain you access to vBid Online Bidding.

Bidders must be prequalified with the City of Marshfield, Board of Public Works to qualify to bid. Prospective bidders must be on the planholders list will through QuestCDN for bids to be accepted. Any and all addenda will also be posted to the QuestCDN web site. No planholders list will be faxed.

Documents can be viewed on the city web site: www.ci.marshfield.wi.us under Departments » Public Works » Engineering.

The City of Marshfield, Wisconsin reserves the right to accept or reject any or all proposals, including, but not limited to, any or all proposals which are not responsive, to waive informalities in the bidding procedure and to award the Contract to the Bidder whom, in the opinion of said City, will be most advantageous to said City.

Letting of this Contract is subject to applicable provisions of the Wisconsin Statutes.

BOARD OF PUBLIC WORKS
MARSHFIELD, WISCONSIN
Daniel G. Knoeck, Secretary

PUBLISH: News Herald – July 25th & August 1st, 2020 – LEGAL

INFORMATION FOR BIDDING AND EXECUTION OF CONTRACT

1. INFORMATION AVAILABLE VIA 'QUESTCDN'

Complete digital project bidding documents are available at www.questcdn.com. You may download the digital plan documents for \$50.00 by inputting Quest project **#7230887** on the website's Project Search page. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, downloading, and working with this digital project information. Bidding documents may be examined at the offices of City of Marshfield, Engineering Division, 207 West 6th Street, Marshfield, WI 54449. A current plan holder's list and bid tabulation will be available on the QuestCDN.com website after bids are opened.

To be eligible to be an authorized plan holder you must register with QuestCDN as noted above. No bids/proposals will be accepted except through QuestCDN.

2. WAGE SCALE

The Contractor, and all subcontractors, shall comply with current State of Wisconsin Minimum Wage Law(s), Chapter 104 of the Wisconsin Statutes.

3. PREPARATION OF PROPOSAL

The Bidder shall submit his Proposal on the form as available via QuestCDN. The Proposal shall be executed properly and unit prices shall be offered for all items indicated on the Proposal Form.

In case of conflict between the Unit Price and the corresponding extended amount, the Unit Price shall govern.

All writing shall be with ink or typewriter except the signature, which shall be written with ink.

A Proposal submitted by an individual shall be signed/authorized by the Bidder or by a duly authorized agent. A Proposal submitted by a partnership shall be signed/authorized by a member or by a duly authorized agent thereof. A Proposal submitted by a corporation shall be signed/authorized by an authorized officer or duly authorized agent of such corporation, and the Proposal shall show the name of the state under the laws of which said corporation was chartered. The required signature/authorization shall, in all cases, appear in the space provided therefore on the Proposal.

4. SUBCONTRACTING

The Contractor will be permitted to sublet a portion of the Contract, but shall perform with his own organization, work amounting to at least 30 percent of the original Contract amount.

If the Contractor shall sublet any part of this Contract, the Contractor shall be as fully responsible to the Owner for the acts and omissions of his Subcontractor and of the persons either directly or indirectly employed by his Subcontractor as he is by acts or omissions of persons directly employed by himself. All Subcontractors, if any, shall be listed in the spaces provided on the Proposal Form and said list shall not be added to or altered without the written consent of the Owner.

5. FORMS TO BE INCLUDED AS THE 'BID'

Forms to be completed/executed by the Bidder as the 'Bid' include the following:

- **Proposal**
- **Proposal Guarantee**
- **Full and Complete List of Subcontractors and Suppliers**

Failure to complete these forms may result in having your bid be considered non-responsive.

Note: Form/sections to be executed by the successful low bidder as the 'Contract' includes the Certificate of Insurance, Performance and Payment Bond, and Contract.

6. PROPOSAL GUARANTEE

No Proposal will be considered unless accompanied by a bid bond in the amount, and payable to, the party as designated in the advertisement.

If alternate bids are invited and submitted, the Proposal Guarantee shall cover the amount of the highest alternate.

7. QUANTITIES

The estimated quantities of work as shown on the plans or in the contract documents have been compiled for the purpose of comparing proposals and are believed to be reasonably accurate. The Owner reserves the right to increase quantities, decrease quantities, delete items of work or order extra work as discussed in the Standard Specifications (Section 1.2).

8. INTENT OF PLANS AND SPECIFICATIONS

The direct intent of the Plans and Specifications is to provide for the construction, execution, and completion of every detail of a complete work or improvement which the Contractor undertakes to do in full compliance with the Plans, Specifications, Special Provisions, and all other Contract requirements. The Contractor shall perform all items of work covered and stipulated in the Proposal, including altered and/or extra work, all in accordance with the lines, grades, sections, and dimensions given, and shall furnish, unless otherwise provided in the Contract, all materials, implements, machinery, equipment, tools, supplies, and transportation and labor necessary for the prosecution and completion of the work.

9. SUBMITTAL OF PROPOSALS

Bids shall only be submitted through QuestCDN VirtuBid (vBid), online electronic bidding service, as described previously within this section.

10. WITHDRAWAL OF PROPOSALS

A Bidder may withdraw his Proposal, provided the request in writing is in the hands of the officer conducting the letting, by the time set for opening Proposals and that such request for withdrawal is not contingent on the result of bids read on other projects. Such Proposal will be returned to the Bidder unopened.

11. REVIEW OF PROPOSALS

Proposals submitted via QuestCDN vBid will be reviewed by the City Engineer to ensure that:

- All required forms have been submitted;
- All forms have been completed;
- Documentation does not warrant rejection;
- Bidder is not subject to disqualification.

Bids, including Proposal, unit prices, total amounts, etc. will be available via QuestCDN following said review. Requests for copies of this information via email, mail, or hardcopy may not be available for 7 business days.

Upon successful submission and review of proposals, bids will be tabulated and submitted to the governing body(s) at the time(s) and place(s) indicated in the Official Notice to Bidders (advertisement). Bidders and/or their authorized agents are invited to be present at the public meeting(s).

12. REJECTION OF PROPOSALS

Proposals may be rejected if they show any alterations, additions, or amendments not called for; conditional or alternate bid unless called for; incomplete bids; or irregularities of any kind.

13. DISQUALIFICATION OF BIDDERS

Any one or more of the following causes may be considered as sufficient for rejection of the bid or bids and disqualification of the Bidder from further bidding for such period of time as determined by the Owner:

More than one Proposal for the same work from an individual, partnership, or corporation under the same or different names.

Evidence of collusion among the Bidders.

Lack of responsibility as shown by past work for the Owner, judged from the standpoint of workmanship and progress.

Noncompliance with terms of previous Contracts.

Uncompleted work which, in the judgment of the Owner, might hinder or prevent prompt completion of additional work if awarded.

14. CONSIDERATION OF PROPOSALS

The Proposals received will be compared on the basis of summation of products of the items or work listed and the Contract unit prices offered. In case of discrepancy between the gross sum shown in the Proposal and that obtained by adding the products of the quantities of work for unit prices, the unit prices shall govern and any errors found in said projects shall be corrected. In awarding the Contract, the Owner may, in addition to considering the amount stated in the Proposal, take into consideration the responsibility of the various Bidders as determined from any investigation which it may elect to make.

The right is reserved to reject any or all Proposals, to waive technicalities, to re-advertise for Proposals, or to proceed to do the work otherwise, if, in the judgment of the Owner, the best interest of the City will be promoted thereby.

15. AWARDING OF THE CONTRACT

The Contract shall be deemed to have been awarded when notice in writing is forwarded by the City Engineer pursuant to actions of the Board of Public Works and/or Common Council.

16. EXECUTION OF CONTRACT

Executed and complete Contracts shall be presented to the Owner within ten (10) calendar days after the date of the Notice of Award of the Contract. The Contract shall be executed by the Bidder/Contractor and the Contractor's bond(s) shall be executed by the Principal and Surety.

The Contractor shall submit insurance documents along with the executed Contract. Insurance documents shall include a Certificate of Insurance which clearly indicates compliance with the Contractor Liability Insurance Requirements as specified in the City's Standard Specifications (Section 1.1.9). In addition to the Certificate of Insurance, the Contractor shall submit a complete copy of the appropriate endorsements(s), such as but not limited to the endorsement which names the City of Marshfield as an Additional Insured.

Submission of improperly executed documents, or incomplete documents (such as failing to submit the Certificate of Insurance and /or endorsements) will delay final execution of the Contract by the Owner, and possibly the start of construction, however the schedule for completion of the project(s) will not be adjusted.

Final execution of the Contract by the Owner will occur after the Owner's attorney has reviewed the documents. The Owner and attorney shall be allowed a reasonable amount of time to complete their review/execution of the Contract (three working days minimum).

No Contract shall be considered binding upon the Owner until final execution of the Contract by the Owner.

17. FAILURE TO EXECUTE CONTRACT

Failure on the part of the successful Bidder to execute a Contract and an acceptable Contractor's bond within ten (10) days after the date of notice of the awarding of the Contract will be considered as just cause for the annulment of the awarding and the forfeiture of the Proposal Guarantee to the Owner as payment of liquidated damages sustained as a result of such failure.

CONTRACT 2020-04
SPECIAL CONDITIONS
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6.	1	Storage of Materials or Equipment
7.	1	Utilities
8.	1	Obstacles and/or Services to Maintain
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10.	1	Project Sign(s) Required
11.	1	Sales and Use Tax Exemption
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SPECIAL CONDITIONS

1. PROJECT SCOPE

Contract 2020-04 includes work at the following locations, as described below:

Sanitary Sewer Relocation near S. Roddis Ave. and Hefko Pool Entrance Road

This project includes relocating the sanitary sewer by constructing new 18-Inch PVC sewer between manholes Y1 and O89. Remove and reconstruct manholes Y1 and O89. The work requires removal of some asphalt surface in the areas of the new sanitary sewer line and abandon-fill manholes. Sewer main shall be abandoned in place with a slurry fill. Replacement of access road base is included in this contract. Replacement of asphalt surfaces shall be done by others (as discussed elsewhere in these special conditions and plan set).

Note: The longitudinal limits for pavement removal/replacement as required for the sewer installation and abandonment shall be as shown on the plans, as a minimum, however if additional room/width is required for contractor's work operations/equipment, then the saw cut location(s) can be adjusted (if in conformance with the City's Street Repair Standards, included in plans, and approved by the City Engineer).

Trench dewatering is incidental to sewer main installation.

Bypass pumping will be required to construct this project. A second bypass pump is required to be on site (as redundant/back-up to provide service in the event the primary pump fails).

Contractor is hereby notified that proposed sewer work under this contract will impact access and work by others, specifically contractors working on the Marshfield Outdoor Aquatic Center Project (Vandehey Waters, pool removal and reconstruction project). Overlapping work between this contract and pool contracts may include erosion control, traffic control, temporary fence, removal of existing sanitary sewer, removal of existing water service, etc. Closure/removal of the existing entrance to the pool site will impact pool contractor's access to their worksite. Contractor shall move, adjust, remove and reinstall temporary fencing for the pool project as needed for sewer construction, however the pool site shall be secure by the end of each work day. Contractor shall coordinate all work and access with the Construction Manager for the pool project, The Boson Company (on-site contact is Ryan Merkel, 715/650-22988).

2. PROSECUTION AND PROGRESS

Perform the work under this construction contract as indicated on the plans and details, and execute the work as specified in these Special Provisions, the City of Marshfield 2020 Standard Specifications for Public Works Construction; and if so referenced, the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, Current Edition, and/or the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum No. Two.

The Contractor shall provide a detailed schedule of construction operations (7 days prior to the preconstruction conference). All completion dates and/or completion periods shall include all work, by contractor and others. Time allotments of calendar days shall be consecutive calendar days, including weekends and holidays, without interruption or suspension of accrued time.

Contractor will not be allowed to work on any project on the following Federal and/or local holidays:
September 7, 2020 – Labor Day

The Contractor's schedule will comply with the following:

Anticipated Start of Construction: On/after September 8, 2020.

Final Completion: Within 30 calendar days of commencement, but before October 30, 2020.

Penalty: \$450 per calendar day.

Damages for Overflow: Contractor will be charged **\$5,000 minimum** for each and every reportable overflow/release of sanitary sewage/wastewater that occurs on this project, by Contractor's fault or not. Actual and total damages above the listed minimum amount will be dependent upon severity, volume, duration, occurrences, environmental impacts, clean-up, mitigation, etc.

3. STAGING OF CONSTRUCTION

Confined Work Zone(s): Special staging/operations may be necessary to confine construction operations (such as but not limited to excavation, trenching, backfilling, spoil storage, etc.) within the existing right-of-ways. Private properties may be available for use; however it is the Contractor's responsibility to make said arrangements/agreements. Contractor shall inform the City of properties whose owner(s) have agreed with Contractor for said use, however, the City Engineer hereby assumes no responsibility/liability regarding said arrangements/agreements.

Construction Noise/Work Hours: Contractor shall restrict work hours and comply with City of Marshfield Noise Ordinances for the allowable hours of operation from 7:00 AM to 7:00 PM, Monday through Friday.

Staging/Coordination/Access Requirements: The contractor shall provide 24-hour contact information for the Contractor or its representatives to the Wood County Sheriff's Department and local City of Marshfield emergency services with the current telephone number(s) in the event a safety hazard develops. Access for emergency vehicles shall be accounted for at all times during construction.

Sanitary Sewer Construction: Contractor shall prepare a submittal to the Engineer for wastewater diversion during structure installation, indicating the method of wastewater diversion and timeframes for the diversion. The Engineer recommends conducting operations to minimize bypass pumping by replacing manhole O89, then constructing new 18-Inch PVC sanitary sewer toward manhole Y1. Remove and reconstruct manhole Y1. Wastewater diversion or bypass pumping will be required when replacing manhole O89 and replacing manhole Y1.

Manhole Removal: During manhole O89 removal, contractor shall protect existing 30-Inch RCP pipes entering and leaving manhole. Existing 30-Inch RCP pipes shall be saw cut as indicated on plans prior to manhole removal. The new manhole shall be cast-in-place around these existing pipes.

During removal of manhole Y1, contractor shall protect existing 24-Inch RCP pipe entering the manhole. The new manhole will be slid onto the existing 24-Inch RCP pipe (see plan details). There is a large 72-Inch x 113-Inch RCP storm sewer within Roddis Ave. This storm sewer is within inches or touching existing manhole Y1. Contractor shall protect this storm sewer from damage.

Sanitary Sewer Abandonment: Complete all sewer main and manhole construction prior to abandonment of sanitary sewers and manholes as shown on plans, with the exception of the 12-Inch

sewer entering manhole O89 from the northeast.

Bypass Pumping: The contractor shall determine the means and method of bypass pumping and coordinate the low flow times (day of the week and hours of the day) with the City of Marshfield for performing the work. The Contractor shall prepare a submittal to the Engineer indicating the specific manhole locations that would be plugged, receiving manhole for the wastewater, as well as the planned pooling depth in the manhole, to prevent sewer backups and overflows. The contractor shall have a second bypass pump system onsite at all times during bypass pumping in the event of pump failure. Traffic on Roddis Ave. shall be maintained at all times during bypass pumping. Contractor shall monitor bypass pump operations at all times during bypass pumping. Contractor shall monitor bypass pump operations, including water level in the manhole where the bypass pump is located, by electronic means with a high water and low water alarm. Contractor shall provide by submittal emergency contact information (cell phone and email) for both contractor personnel and septic hauler during bypass pumping to immediately respond to a pump or bypass system failure. Damage due to bypass pump system failure is the contractor's responsibility.

4. CONSTRUCTION VEHICLE ACCESS

Trucks hauling materials to or from each project site shall utilize only truck route streets that are indicated on the City of Marshfield Truck Route Map (included with these Special Provisions), unless other routes are approved by the City Engineer via the City's Overweight Permit process.

Construction vehicles (such as tractors, loaders, etc.) shall also comply with these requirements. Construction vehicles traveling from one portion of the project to another are not allowed to travel on non-truck route streets, unpermitted (overweight) streets nor any other public or private driveways/entrances/parking lots/etc.; and if construction vehicles utilize these roadways, the Contractor may be subjected to fines, in addition to costs for repairs to said damaged surfaces (per judgment of the City Engineer).

5. NOTIFICATION BY CONTRACTOR

The Contractor shall notify the agencies listed below if road closures or changes in access can be expected to occur. The notice shall be distributed via fax at least 48-hours prior to closing a roadway or changing access. All notices shall briefly summarize the current status of work and access, and discuss progress or changes which are expected to occur within the next two weeks. The notice shall be signed by the Contractor's agent who prepared it and include contact information (with phone numbers) where notified agencies can call to ask questions.

Agencies to be notified include:

AGENCY	FAX NUMBER
City of Marshfield – Public Works, Engineering Division	715.384.7831
City of Marshfield – Public Works, Street Division	715.387.8669
City of Marshfield – Police Department	715.384.0823
City of Marshfield – Fire Department	715.384.8868
City of Marshfield - Parks & Recreation Department	715.384.7831
Marshfield Utilities	715.389.2106

The Contractor shall notify all occupied properties (commercial and residential, including renters) abutting and within 100' of construction limits of the start of construction at least three calendar days prior to the beginning of said work.

6. STORAGE OF MATERIALS OR EQUIPMENT

The Contractor may be allowed to utilize existing roadways and/or right of ways within the construction limits of each project, to temporarily store materials and equipment if approved in writing by the City Engineer. Each material pile, stack, etc. or piece of equipment shall be located alongside of the traveled way and protected through the use of reflectorized drums with Type A flashers visible from all directions of travel.

The Contractor shall not utilize property beyond the right of way (private lands), parcels upon which the City of Marshfield has acquired easement rights, or any City-owned parks/parking lots/etc. unless the Contractor obtains written permission for use from the property owner(s). Contractor shall inform the City Engineer of said permission/agreements; however, the City Engineer hereby assumes no responsibility/liability regarding said arrangements/agreements.

Disturbed areas outside of the construction limits and/or slope intercepts and utilized for storage or access shall be protected with erosion controls and restored to the satisfaction of the Engineer upon completion of the project. All work regarding said storage, including but not limited to erosion controls and restoration, shall be considered incidental to construction.

7. UTILITIES

A. General

There are underground and overhead utility facilities located within the project area. The Contractor shall coordinate his construction activities with a call to Digger's Hotline as required per State Statute. The Contractor is encouraged to contact utility/facility owners to obtain current information on the status of an existing utility facility or any utility relocation work.

Utilities which are not specifically noted herein to be replaced shall therefore be assumed to remain in place, without disruption to service.

Utility Line Openings (ULO's), as specified in Section 4.1.6 of the Standard Specifications, may be required on the plans at locations of potential conflict as identified during the design. These ULO's will be paid for if specifically listed in the unit price schedule. The Contractor shall perform ULO's per plan and additional ULO's if desired or necessary to maintain production rates, at Contractor's costs (additional ULO's are considered incidental and will not be measured/paid for; nor will the quantity of the ULO bid item be increased unless specifically approved for payment by the City Engineer). Contractor shall comply with the requirements of Section 4.1.6 if ULO's are measured/paid for or incidental, required on the plans or additional work by Contractor.

It is possible that potential conflicts may be discovered during construction. The Contractor and Utility owner are ultimately responsible for discovery and resolution of all conflicts.

The Contractor shall exercise extreme care when working near existing utility facilities and shall utilize special equipment and/or work procedures to protect these facilities. The Contractor shall be responsible for all costs resulting from any damage to said facilities and shall repair or replace said facilities to the satisfaction of the utility owner.

All costs associated with the discovery of utility facilities and/or conflicts along with protecting utility facilities, including but not limited to: utilization of special equipment and/or work procedures; loss of production; special protection devices such as sheeting, shoring, piling, timbers or supports; temporary removal and reinstallation; additional labor or equipment;

repair/replacement of utility facilities any down time or delay; all coordination associated with utilities, and all material, labor, equipment, tools and incidentals necessary to complete the work, shall be incidental to construction.

Utility companies known to have facilities within the project area(s) include:

- City of Marshfield – Sanitary Sewer
- City of Marshfield – Storm Sewer
- Marshfield Utilities (MU) – Water
- Marshfield Utilities (MU) – Electric and Street Lighting
- Frontier Communications – Telephone
- Charter Communications – Cable
- WE Energies – Natural Gas

B. Sanitary Sewer

The City of Marshfield has existing sanitary sewer mains that are located within construction limits of the project area as indicated in the plans. The contractor shall be responsible to locate, protect and repair (if disturbed) existing mains as necessary.

C. Storm Sewer

The City of Marshfield has existing storm sewer mains that are located within construction limits of the project area as indicated on the plans. The contractor shall be responsible to locate, protect and repair (if disturbed) existing mains as necessary. A large 72-Inch x 113-Inch RCP storm sewer is located within Roddis Avenue and is located within inches or touching existing manhole Y1. Contractor shall protect this storm sewer from damage.

D. Water Main

Marshfield Utilities (MU) – Water Department has existing water mains, valves, hydrants, leads, hydrant valves and service laterals that are located within the construction limits of the project area as indicated on the plans. The contractor shall be responsible to locate, protect, and repair (if disturbed) existing mains and laterals as necessary. There is an existing 4-Inch water service crossed by the new 18-Inch PVC sewer. The Contractor shall conduct an ULO as indicated on the plans to determine the depth of this water service. A water main offset may be necessary.

E. Electric

Marshfield Utilities (MU) – Electric Department has facilities within construction limits. Contractor shall use caution to avoid damage to these facilities. Any damage to these utilities shall be repaired at the Contractor's expense.

F. Telephone

Frontier Communications has existing underground facilities within construction limits. Any damage to these utilities shall be repaired at the Contractor's expense. Frontier has an underground communication facility across the proposed 18" PVC sanitary sewer. Protect this facility during construction and provide advance notice to Frontier and arrange for them to be on site during construction of the sewer.

G. Cable

Charter Communications has existing underground lines within construction limits. Any damage to these utilities shall be repaired at the Contractor's expense.

H. Natural Gas

WE Energies has underground facilities within the project limits. Any damage to these utilities shall be repaired at the Contractor's expense.

8. OBSTACLES AND/OR SERVICES TO MAINTAIN

A. General

It is understood that the Contractor, by careful examination, is satisfied as to the nature and location of the obstacles to be encountered, requirements as dictated by the utility/obstacle owner, character of the equipment and facilities needed for prosecution of the project. All work associated with "Obstacles" shall be considered incidental to the project(s), unless specifically discussed or listed for payment elsewhere.

B. Utilities

Gas, power, cable TV and/or telephone poles, guys, pedestals or other utility items encountered as construction progresses, may require temporary removal, relocation and/or replacement. All costs associated with the temporary relocations, removal and reconnection of utility facilities will be at the Contractor's expense and no additional payment will be made for said work. The Contractor shall work with the utilities on the scheduling of any temporary relocation.

C. Sanitary Sewer Mains and Service Laterals

The Contractor will be required to keep a supply of materials on site to repair damaged sewer mains or laterals encountered during the construction. The materials include but are not limited to PVC sewer pipe, Fernco adapters, repair couplings, wyes, tees, etc. Failure to have adequate and proper materials on hand for timely repairs will not be grounds for any additional payments. Any damage to sanitary laterals, located or not located, shall be the responsibility of the Contractor.

Note: Fernco connectors are not allowed on PVC to PVC connections.

D. Street Signs (City)

Where necessary for construction within construction limits, the Contractor shall carefully remove existing street signs (and posts) and carefully haul to the City of Marshfield - Public Works - Street Division Sign Shop (101 South Oak Avenue). These signs include street names, stop, speed limit, etc. Temporary signs required for traffic flow shall be installed and maintained by the Contractor.

E. Miscellaneous Signs

Where necessary for construction, the Contractor shall remove, adjust and/or relocate (temporary or permanent) existing miscellaneous signs not owned by the City of Marshfield such

that each sign is visible to intended parties/motorists. Upon completion of work in the immediate area of each sign, the existing miscellaneous sign shall be adjusted, moved and/or reinstalled to its original or proposed location. Removal and/or adjustment of signs shall be considered incidental to construction.

9. CONSTRUCTION STAKING

The City of Marshfield shall provide construction staking as described in the City's Standard Specifications (Section 1.4.3). The Contractor shall coordinate staking requirements with the City and provide at least 72 hours' notice when requesting staking.

The Contractor shall provide any additional staking as necessary for construction of the projects.

10. PROJECT SIGN(S) REQUIRED

A project sign is required for the project in accordance with City Standard Specification Section 1.3.29. Installation, maintenance and removal thereafter of the project sign shall be considered incidental to construction.

11. SALES AND USE TAX EXEMPTION

Per recently enacted legislation (State Statutes 77.54(9M), Wisconsin Administrative Code Tax Rule 11.11, 2015 Senate Bill 227, 2015 Wisconsin Act 126), the Contractor (and all subcontractors and suppliers) are exempt from paying sales and use taxes of the State of Wisconsin and of cities and counties thereof on eligible materials, equipment and components to be incorporated into the work.

Eligible materials, equipment and components include the following categories of work:

- Storm Sewer, as specified under Sections 6 through 10 of the City's Standard Specifications. Storm Sewer pay items are also identified on the Proposal and Contract (i.e. unit price schedules) by Item Number; 6-XXX, 7-XXX, 8-XXX, 9-XXX and 10-XXX.
- Water Supply, as specified under Sections 10 and 19 of the City's Standard Specifications. Water Supply pay items are also identified on the Proposal and Contract (i.e. unit price schedules) by Item Number; 10-XXX and 19-XXX.
- Sanitary Sewer, as specified under Sections 8 through 10 and 20 of the City's Standard Specifications. Sanitary Sewer pay items are also identified on the Proposal and Contract (i.e. unit price schedules) by Item Number; 8-XXX, 9-XXX, 10-XXX and 20-XXX.

Eligible Pay Items:

- 6-XXX Storm Sewer
- 7-XXX Storm Structures
- 8-XXX Manhole, Catch Basin, Area Drain and Inlet Covers
- 9-XXX Adjustment and Reconstruction of Manholes, Catch Basins, Area Drains and Inlets
- 10-XXX Removing and Abandoning Structures and Pipes
- 19-XXX Water Main and Services
- 20-XXX Sanitary Sewer and Manholes

Said sales and use taxes shall not be included in the Contractor's material cost/unit price for eligible items. This tax exemption does not apply to:

- Construction tools, machinery and equipment.
- Other 'property' purchased by or leased by the Contractor.
- Materials, equipment and components not incorporated into the work.
- Materials, equipment and components which are not described or listed as eligible categories or items.

The City of Marshfield will furnish certificates of tax exemption to Contractor for use in the purchase of tax exempt eligible items to be incorporated into the work upon request.

12. CAUTION – DO NOT DAMAGE EXISTING UTILITIES TO REMAIN

The Contractor is hereby notified that there are existing municipal and private utilities that are to remain lying beneath existing surfaces that are designated to be removed. Some of these existing utilities are shallow and may be exposed during construction. The Contractor shall be careful not to damage these utilities during pavement breaking/removal, excavation, etc. and will be responsible for damage and repairs to said facilities.

13. REMOVAL AND DISPOSITION OF EXISTING MATERIALS

Materials designated to be removed (and salvaged for future use by the City) shall be removed, segregated and hauled by the Contractor to the City of Marshfield Public Works – Street Division Material Storage yards at either 2600 South Vine Avenue, or the 'Old Landfill' (east side of Lincoln Avenue at Airport Road) and deposited in the appropriate stockpile. The City shall be responsible for maintaining all materials stockpiles. The Contractor shall be responsible for disposal of existing materials at an alternate site if storage space at city sites is exhausted. Removal (and salvage) shall be in accordance with the Special Conditions and the City's Standard Specifications for Public Works Construction. When disposing materials at alternative or private sites, the Contractor is responsible for all legal and monetary obligations; for obtaining permits; and for compliance with all permit conditions, laws, rules and ordinances. All unsuitable materials and materials not specifically discussed herein or the City's Standard Specifications shall be disposed of by the Contractor (incidental to construction).

- A. Asphalt surfaces (including asphalt overlay, approaches, driveways, etc.) shall be deposited at the City's Vine Avenue materials storage yard (paid per Remove Asphalt Surface per S.Y).
- B. Concrete, rock and boulders shall be deposited at the City's Vine Avenue materials storage yard (paid per removal specifications per square yard or lineal foot).
- C. Surplus topsoil (suitable materials, may include sod, relatively free of contaminants/debris) shall be deposited at the 'Old Landfill' site (incidental to construction).
- D. Excavation – excavated fill materials shall be used on the project site in accordance with the grading plan. Unsuitable materials or surplus excavation shall be disposed of by the Contractor. Disposal of surplus excavation materials shall be considered incidental to construction. It is hereby recognized that disposal of unsuitable surplus excavation as described herein is the Contractor's responsibility, independent of City oversight or control, however, the Contractor shall provide documentation that demonstrates the disposal site property owner(s) are satisfied that the Contractor has fulfilled his obligation(s) to said property owner(s).

14. COMPACTION

All disturbed, placed, imported (bedding, cover and/or backfill) or exposed soil or aggregate material shall be compacted in accordance with Section 4 of the Standard Specifications. Wet soil shall be removed/replaced or processed such that moisture/water content facilitates compaction to comply with density requirements.

Special compaction equipment will be required throughout the project. Use equipment which accomplishes compaction goals without damaging buildings and foundations abutting the project.

15. MAINTAIN EXISTING STORM SEWER AND DRAINAGE

The Contractor shall maintain drainage and a functioning storm sewer system throughout construction (as required by Standard Specification Section 1.3.24). Where the existing storm sewer pipe or structures are removed for replacement or to accommodate other work such as installation or removal of sanitary sewers, water main, storm sewers, other underground utilities and/or service lines, temporary pipes and/or structures of sufficient capacity shall be installed by the contractor. Temporary facilities shall include soil-tight connections and shall not allow debris/materials into downstream sewers. Upon completion of the project, existing storm sewer pipes and structures in the project area shall be inspected and cleaned of any debris caused by the project. Maintaining and cleaning existing storm sewers and drainage, including temporary facilities, shall be considered incidental to construction of the project.

16. CONCRETE FOR SANITARY MANHOLES

All concrete structures shall be constructed with concrete supplied from an automatic batching or ready-mix plant and placed via fixed-formed methods.

Monitoring and control of water and the water-to-cementitious material ratio is essential. Quality control and management of materials, aggregate piles, trucks and equipment, by skilled operators is necessary for the success of this project.

Mix Design requirements for the cast-in-place manhole structure shall be as follows:

- The compressive strength of the concrete shall be 5000 psi (28 day).
- The water-to-cementitious material ratio shall not exceed 0.42 ($W/Cm \leq 0.42$).
- The air content range shall be 1 to 2% (min to max).
- The slump range shall be 2" to 4" (min to max).
- The coarse aggregate shall be $\frac{3}{4}$ " maximum.
- Additive for Corrosion Protection/Water-Proofing 1% by weight of cementitious material.

The Mix Design for the flow channel and bench of the cast-in-place manhole shall be as follows:

- The compressive strength of the concrete shall be 3000 psi (28 day).
- The water-to-cementitious material ratio shall not exceed 0.42 ($W/Cm \leq 0.42$).
- The air content range shall be 1 to 2% (min to max).
- The slump range shall be 2" to 4" (min to max).
- The coarse aggregate shall be $\frac{3}{4}$ " maximum.
- Additive for Corrosion Protection/Water-Proofing 1% by weight of cementitious material.

Concrete Additive: All concrete sanitary manholes, including cast-in-place and precast concrete structures, shall be protected from sulfide induced microbial corrosion through incorporation of an admixture, added to the mix at the time of concrete batching. The protective admixture shall comply with the following:

- **General:** Admixture shall be crystalline, cementitious, non-toxic chemical treatment for the water-proofing and protection of concrete.
- **Product** shall be Xypex Bio-San C-500 as manufactured by Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, BC, Canada, V6V 2G9; 800-961-4477 or 604-273-5264; fax 604-270-0451; info@xypec.com; www.xypex.com.
- **Dosing:** Admixture must be added in accordance with the manufacturer's recommendations. Thorough blending of the admixture throughout the concrete mix is essential for correct performance and care should be taken to ensure a homogeneous mixture is obtained.
- **Dosing Rate:** 1% by weight of cementitious material
- **Chlorides:** Calcium chloride or soluble chloride admixtures shall not be used.

Batch tickets will be required with every load delivered to the jobsite so that the Contractor/Foreman and Engineer can verify the W/Cm ratio. Tickets shall clearly indicate the W/Cm ratio, or indicate the individual weights (in pounds) of mix water, aggregate free moisture, cement, and fly ash such that the W/Cm ratio can be quickly determined in the field. Batch tickets shall also indicate all admixtures used. If possible, indicate the amount of water that can be added on-the-job on each batch ticket.

The concrete producer shall conduct frequent moisture testing of the aggregates at the plant/stockpile location. Immediately prior to each day's pour, determine the fine and coarse aggregate moisture content(s). During each pour (unless measured/monitored automatically by the plant), determine fine aggregate moisture content at half-hour intervals (one test every one-half hour) or every-other truck load, whichever interval is longer. Utilize moisture content test results to adjust the batch weights such that the targeted W/Cm ratio is maintained and not exceeded.

Please notify and remind all ready-mix truck drivers that:

- **All wash water shall be removed from the truck/ drum prior to loading.**
- No water shall be added to the mix in transit.

The Contractor is responsible for testing of concrete in accordance with Section 11, of the Standard Specifications (Sections 3.8.4 Compressive Strength, 3.8.5 Air Content and 3.8.7 Slump of the WCPA Specification). Compressive strength test cylinders must include caps and shall be labeled as follows:

City of Marshfield Contract 2020-04 Cylinder No. _____
 Plan No. 1657 Project No. _____
 Date Cast _____ Test Age: Opening 7-day 28-day
 Type: Sanitary Sewer Manhole Structure
 Sample Location: _____
 Field Test - Slump ____" Air ____% Temp ____°F By _____

Contractor and the concrete subcontractor shall hold a pre-pour meeting arranged by the Engineer, at least one week prior to each substantial pour.

Comply with all other requirements for cast-in-place concrete structures per Section 7 of the Standard Specifications.

Project Summary:

- Cast-in-Place concrete manhole (Manhole O89)

17. SANITARY MANHOLE FLOWLINES (CONCRETE)

All sanitary manholes installed/constructed as part of this project shall have a formed concrete flow line and bench. The flow line and bench for all pre-cast manholes shall be installed by the pre-cast manhole manufacturer. The flow line and bench for all cast-in-place manholes shall be installed by the Contractor. The Contractor shall grind and polish all flow lines to provide a smooth finish to the satisfaction of the engineer. Upon approval of the engineer, Contractor shall apply a sealer/water-proofer to the bench and flow line for improved flow and added protection. The sealer/water proofer shall be TK Tri-Silane 590-1 MS as manufactured by TK Products, 11400 West 47th Street, Minnetonka, MN 55343, 800-441-2129, Fax 952-938-8084, www.tkproducts.com.

18. FINE GRADING (FOR ASPHALT)

Fine Grading for side road approaches, driveways, aprons, etc. will be considered as work by the Contractor and incidental to construction.

The Contractor shall coordinate with the City's asphalt contractor to accomplish fine grading in a timely matter with a minimal number of mobilizations. Failure to coordinate this work or otherwise complete it in a timely manner will not be considered as grounds for warranting a contract time extension. All work by the Contractor in regards to this work shall be considered incidental to construction.

Gravel (Base Aggregate Dense) shall be measured and paid for under the pertinent contract items. Maintenance and repair of the shaped/prepared aggregate base shall be the Contractor's responsibility and is incidental to the pertinent contract items for base aggregates.

19. ASPHALT PAVEMENT BY OTHERS

Asphalt pavement for mainline streets, side roads, patches, driveways, aprons, parking lots, flumes, etc., is not included under this contract but will be done by others (a private contractor under the City of Marshfield's current Asphalt Pavement Contract). The Contractor shall coordinate with the City's asphalt contractor to accomplish asphalt paving/patching in a timely matter with a minimal number of mobilizations. Failure to coordinate this work or otherwise complete it in a timely manner will not be considered as grounds for warranting a contract time extension. All work by the Contractor in regards to this work shall be considered incidental to construction.

20. RESTORATION OF TURF SURFACES (FINISHED TERRACES)

Turf surfaces shall be restored in accordance with the plans, typical sections, the City's Standard Specifications and these Special Conditions. Topsoil processing, preparation and seed mixture shall comply with the following requirements:

- Restore to a well-groomed lawn condition using imported processed topsoil. Seed using City Seed Mix (2020) at 5 lbs. /1000 SF. Cultipack before and after seeding to develop a firm seed bed and insure good seed-soil contact. This work shall be paid for at the Contract Unit Price for Finished Terraces – City Seed Mix (2020), per square yard, based upon the plan quantities (without measurements).

21. EROSION CONTROLS

Contractor is responsible for any and all sediment leaving the project site, whether conveyed by water, wind, or vehicles. To comply with storm water permits and/or protect waters or wetlands, the Contractor is required to install erosion controls (per the City's Standard specifications, Section 18) prior to the start of construction/excavation and as soon as possible at newly constructed areas. Construction plans may include an Erosion Control plan, however, this plan cannot be considered inclusive for all situations and stages. This plan typically indicates the controls that will be measured and paid for by the City of Marshfield, while additional controls such as tracking pads, sweeping and additional inlet protection on haul routes, and other measures will be the Contractors responsibility (thus incidental to construction).

Plan details and specifications not only require timely installation, but also proper installation of approved materials. The Contractor is also responsible for maintenance of all erosion controls throughout the duration of the project.

Contractor shall install erosion controls such as Inlet Protection, pipe or ditch checks, etc. on all existing and proposed drainage structures within project limits and beyond if so indicated on the Erosion Control plans. Install Inlet Protection, Type 'C', concurrent with (pavement) removals. Where existing structures are to remain (casting to remain, adjustment required) Inlet Protection shall be measured and paid for, per Each, as a single unit, for the existing structure and the adjusted structure (not paid separately).

The City Engineer reserves the right to deduct 50% or more of the contract unit prices for erosion controls due to the Contractor's use of deficient materials, improper installation, untimely installation and/or lack of maintenance of any or all erosion controls. The City Engineer also reserves the right to remedy (all of the above) utilizing City forces or others, with the cost of said remedy(s) either billed to the Contractor or deducted from final payment.

22. TRENCH PLUGS/CLAY DAMS

The Contractor shall be required to install Trench Plugs/Clay Dams in lieu of normal bedding and cover materials at locations shown on the plans, noted within the Standard Specifications and these Special Conditions. Locations for Trench Plugs/Clay Dams shall include:

- Sanitary Sewer Mains – at approximately 20' upstream of manholes, or as shown on the plans.
- At Sanitary Sewer Laterals, where shown on the plans.

Trench Plugs shall be constructed using suitable native clay material, placed in layers not exceeding 8-inches when loose, compacted by hand (using vibrator rammer/tamping plate, etc.), extending 6 lineal feet along the pipe and full width of the trench, in lieu of bedding/cover materials. Trench Plug/Clay Dam material shall be placed around the pipe(s) without voids and without damaging the pipe.

All work associated with Trench Plugs/Clay Dams, including materials, placing, compacting, downtime/delay/loss of production, along with all labor, tools and equipment shall be considered incidental to construction and will not be measured/paid for separately.

23. SANITARY SEWER MANHOLES O89 AND Y1

Existing manhole Y1 will be replaced with a new precast manhole of the same size. Existing manhole O89 will be removed according to plan details and replaced with a partially cast-in-place and partially precast new concrete manhole (the lower section will be cast-in-place and the upper section will be a 48" precast manhole). Existing concrete sanitary interceptor sewers shall be connected to said proposed manholes in accordance with plan details and these specifications, ultimately providing water-tight connections.

The existing 30-Inch RCP pipe entering and leaving manhole O89 shall be protected during manhole removal and be incorporated into the new cast-in-place manhole. These pipes shall be saw cut as shown on the plans. Waterstop (WS-37.00-S One Piece Spliced Water-Stop Manufactured by A-LOK Products, Inc.) shall be used to form a water tight seal between the existing RCP pipe and new manhole. The pipe shall be grouted on the inside and outside of the manhole according to the plan details.

The existing 24-Inch RCP pipe entering manhole Y1 from the north shall be protected during removal of existing manhole Y1. The new precast manhole shall be slid in place around the existing RCP pipe. Waterstop (WS-30.00-S One Piece Spliced Water-Stop Manufactured by A-LOK Products, Inc.) shall be used to form a water tight seal between the existing RCP pipe and new manhole. The pipe connection shall be sealed using ready mix concrete, grouted on the inside and outside of the manhole according to the plan details. This work requires careful removal of the existing manhole without damaging the existing sewer main or other nearby utilities such as the 72-Inch x 113-Inch storm sewer. Orient the manhole and modify the openings in the new precast manhole as necessary to install it around the existing concrete pipe without conflicting with the existing storm sewer.

The proposed 18-inch PVC sewer main shall be installed in manhole Y1 using a boot cast into the manhole structure. The boot shall provide a water-tight pipe-to-manhole seal with two stainless steel clamps per boot. Grout annular spaces (all connections) inside of manhole.

The proposed 18-inch PVC sewer main shall be installed in manhole O89 using a Field Sleeve (FS-AP-0610 as Manufactured by A-LOK Products, Inc). The field sleeve consists of a fiberglass framed form and A-LOK water stop. The field sleeve for the 18-inch PVC sewer main shall be installed in the forms for the wall and cast-in-place. Once the concrete has cured, the proposed 18-inch PVC pipe shall be installed into the manhole. The pipe shall be grouted on the inside and outside of the manhole according to the plan details.

Compensation for all work described herein and on plan details including, but not limited to, excavation, removal, cleaning, preparation, installation, and disposal of waste; and for furnishing all materials, labor, tools, equipment, and incidentals necessary to complete the work shall be incidental to the bid items for Sanitary Manhole O89 and/or Sanitary Manhole Y1, each being measured and paid for per Lump Sum. No additional payment shall be made for this work.

24. TRAFFIC CONTROL

All work zone traffic control and signing for construction of the project shall be the Contractor's responsibility and shall be in accordance with Section 24 of the Standard Specifications and project plans if applicable. Traffic Control devices will be needed during bypass pumping for manholes O89 and Y1.

Project locations closed for construction/reconstruction shall be signed as 'Road Closed', with advance warning signs required for all mainline approaches. If said mainline closure effectively closes a side road (including alleys, commercial entrances, etc.) then each said side road access shall also be signed as 'Road Closed' with advance warning signs. Advance warning signs shall include a post-mounted 'Road Work Ahead' sign and two 'Road Closed to Thru Traffic' signs mounted on Type III barricades (each of these barricades shall include 2 flashers).

Project locations which are required to be open to traffic at the end of each working day shall be signed as described above; however, the 'Road Closed' sign at the construction limits shall be removed or covered when said road is open. Contractor shall place additional traffic control/warning signs as appropriate. Project locations which are required to be open to traffic at all times (live traffic) shall be appropriately signed in accordance with the MUTCD (Part 6/Work Zones), such as but not limited to lane closures, shoulder/parking lane work, one-lane road, etc.

Traffic control devices shall be used to mark inaccessible sidewalk and path locations, including advance warnings.

Traffic control devices such as drums with flashers shall be utilized to delineate temporary access routes as required by the City Engineer.

Traffic controls shall be adjusted/revamped to fit the full construction schedule. The traffic control subcontractor/responsible party shall review traffic controls throughout the duration of the project with the City Engineer prior to any changes in construction or removal of previous traffic control devices.

Provide and maintain traffic control devices located where described herein, shown on the plans or as directed by the City Engineer, to maintain a safe work zone throughout the contract duration. Relocate as required to accommodate changing work operations. When not in use, place devices away from traffic outside of paved and gravel shoulder surfaces. Lay signs and supports flat on the grade with uprights oriented parallel to and downstream from traffic. Do not stack devices or equipment. Promptly remove temporary devices from within the project limits when said devices will not be used within 14 consecutive calendar days, and/or within 5 business days of substantial completion unless the City Engineer allows otherwise.

PERMITS AND APPROVALS

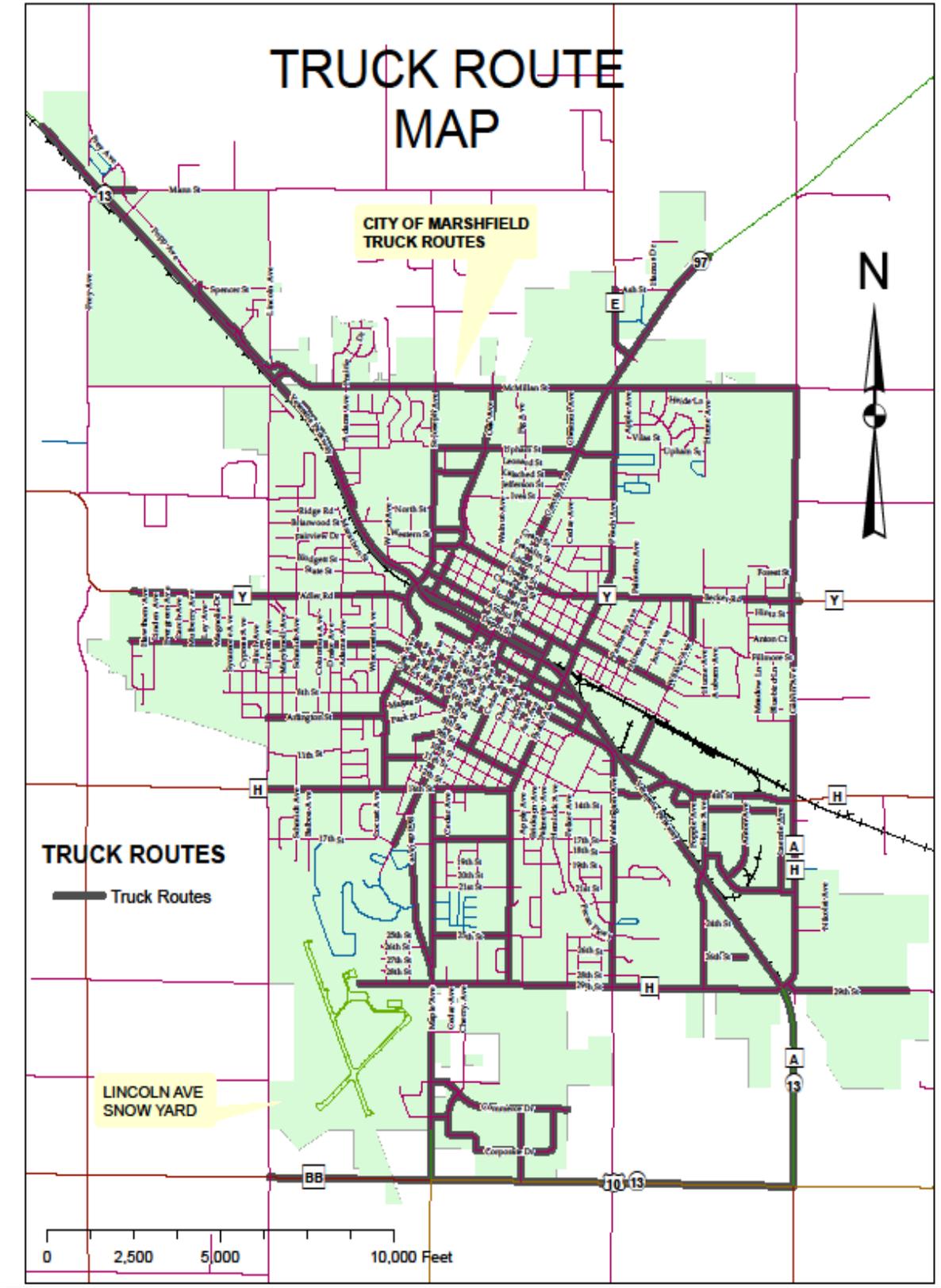
Portions of the proposed work on this project will require permits, licenses and/or approvals from various agencies. Said documents are included with these Special Provisions if available, or will be provided to the Contractor when available. These documents include:

Wisconsin Department of Natural Resources – Sewerage System Improvement

Contractors should note that if discrepancies are found between the plans and specifications and said permits, licenses and/or approvals, the permits, licenses and/or approvals will govern.

It will be understood that all Contractors must fully comply with all provisions of these permits as if the Contractor were the applicant of said permit.

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**ATTACH
CERTIFICATE
OF
INSURANCE
HERE**

**INCLUDE ALL ENDORSEMENTS
FOR ADDITIONAL INSURED(S)**

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CONTRACT 2020-04
CITY OF MARSHFIELD

SW INTERCEPTOR SEWER
RELOCATION AND ABANDONMENT
MH Y1 TO MH O87

CONTRACT 2020-04

PLAN NO. 1657

PROJECT NO. 352328

This agreement made this _____ day of _____, 2020 by and between _____ hereinafter called the '**CONTRACTOR**' and the City of Marshfield, Wisconsin, hereinafter called the '**OWNER**', WITNESSETH,

That the Contractor and the Owner, for the consideration hereinafter stated, agree as follows:

Article I, Scope of Work: The Contractor shall perform everything required to be performed and shall provide and furnish all labor, materials, tools, equipment and plant which may be required, either expendable or permanent, also all utility and transportation services, all in strict accordance with the Plans, Specifications, and Contract Documents prepared by the City Engineer, sometimes referred to as the Engineer, which Plans and Specifications are made a part of this Contract, and in strict compliance with the Proposal and other Contract Documents herein mentioned which are also a part of this Contract; and the other documents constituting a part hereof.

Article II, The Contract Consideration of Prices:

All of which payments are to be made in accordance with the General Conditions and Specifications.

Item No.	Item Description	Unit	Unit Price
1-1	MOBILIZATION, BONDS, AND INSURANCE	LS	\$
1-2	SITE MAINTENANCE AND RESTORATION	LS	\$
3-1	SAW ASPHALTIC SURFACE	LF	\$
3-2	REMOVE ASPHALT SURFACE	SY	\$
3-3	REMOVE CURB & GUTTER	LF	\$
4-1	UTILITY LINE OPENING (ULO)	EA	\$
5-1	BASE AGGREGATE DENSE 1-1/4 INCH, IN-PLACE (9-INCH DEPTH)	SY	\$
10-1	ABANDON SANITARY SEWER VIA FILL-IN-PLACE (PUMPED), 15"	LF	\$
10-2	ABANDON SANITARY SEWER VIA FILL-IN-PLACE (PUMPED), 30"	LF	\$
10-3	ABANDON SANITARY SEWER MANHOLE	EA	\$
10-4	REMOVE EXISTING SANITARY SEWER	LF	\$
10-5	SEAL MANHOLE O87	LS	\$
18-1	EROSION AND SEDIMENTATION CONTROLS	LS	\$
19-1	WATER MAIN, 4" D.I. VERTICAL OFFSET	EA	\$
19-2	WATER MAIN, 4" D.I. PIPE	LF	\$
20-1	SANITARY SEWER - 18" PVC	LF	\$
20-2	SANITARY MANHOLE Y1, PRECAST, 48" DIAMETER, COMPLETE	LS	\$
20-3	SANITARY MANHOLE O89, CAST-IN-PLACE, INCLUDING UPPER 48" PRECAST SECTION, COMPLETE	LS	\$
20-4	BYPASS PUMPING	LS	\$
24-1	TRAFFIC CONTROL	LS	\$

Article III, Component Parts of This Contract: This Contract consists of the following component parts, all of which are as fully a part of this Contract as if herein set forth verbatim and if not attached, as if hereto attached.

1. Official Notice to Bidders
2. Information for Bidding and Execution of Contract
3. Special Conditions
4. Standard Specifications for Public Works Construction (City of Marshfield)
5. Permits and Approvals
6. Plans and Drawings
7. Wage Rate Schedule
8. Proposal for Contract
9. This Instrument, Contract
10. Field Orders

In the event that any provision in any of the above component parts of this Contract conflicts with any provision in any other component part or parts, the Contractor shall in writing request a clarification of such conflict by the Engineer, and his clarification of such conflict, approved by the Owner's Board of Public Works, shall be final and binding upon the parties hereto.

Article IV, Guarantee: The Contractor agrees and guarantees that the equipment, materials, and workmanship supplied by him shall be free from all defects and strictly in accordance with the Plans and Specifications herein above referred to and accepted by the Owner; and for a period of twelve (12) months after completion of the Contract, in case of any cracks, settlement, leaks or other defects in work constructed by the Contractor, the Contractor agrees to promptly repair the same upon notification by the Owner, using materials meeting the requirements of the Specification, and in case the Contractor shall fail to make such repairs or cause the same to be made within thirty (30) days of the above mentioned notification, the Contractor agrees to pay upon demand the cost of thereof to the Owner after completion of such repairs, and the Contractor further agrees and guarantees to pay for all labor, material and equipment used in or about the construction covered by this Contract which may become a lien or claim against the Owner.

Article V, Locus of Contract: It is agreed that this Contract, regardless of where executed, shall be subject to and governed by the Law of the State of Wisconsin and shall for all purposes be deemed and regarded to be a Contract entered into the State of Wisconsin.

In Witness Whereof, the parties have caused this instrument to be executed in three (3) original counterparts on the day and year hereinbefore stated.

Contractor

Address

City, State, Zip

BY: _____

Title

Attest:

CITY OF MARSHFIELD ("OWNER")

Bob McManus, Mayor

Deb M. Hall, City Clerk

All of the Contract Documents have been examined as to form and are approved.

_____, 2020

Harold C. Wolfgram, City Attorney

Provision is made to pay the liability that will accrue under this Contract.

_____, 2020

Ron Aumann, Finance Director

PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____
_____ as Principal,
and _____ as Surety, are held
and firmly bound unto the City of Marshfield, Wisconsin hereinafter called the Owner, in the penal sum of
_____ Dollars, lawful money of the United
States, for the payment of which sum well and truly made, we bind ourselves, our heirs, executors,
administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the Principal has executed and attached a
contract dated _____, 20 _____, for the construction of

_____;

Now therefore, if said attached contract is executed on behalf of the Owner, the Principal shall
well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the proposal,
contract and other contract documents as accepted and any and all duly authorized extensions or
modifications of said contract documents that may hereafter be made, shall pay to each and every
person or party entitled thereto all the claims for work or labor performed or material furnished, including
premiums for Worker’s Compensation Insurance, for or in or about or under such contract as provided in
Section 102 and 779 of the Wisconsin Statutes, and any such authorized extension or modification
thereof, then this obligation is to be void; otherwise to remain in full force and effect.

And the said Surety, for value received, hereby stipulates and agrees that no change, alteration
or addition to the terms of the contract or the work to be performed thereunder or the contract
documents accompanying the same shall in any way effect its obligations under this bond, and it does
hereby waive notice of any such change, alteration or addition to the terms of the contract, to the work
or to the contract documents.

In witness whereof, the above bounden parties have executed this instrument in three original counterparts under their several seals this _____ day of _____, 20 _____
 The name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representatives, pursuant to authority of its governing body.

In the presence of:

 _____SEAL
 Individual Principal

 Address Business Address

 Individual Principal

 Business Address

Attest: _____
 Corporate Principal

 Business Address

 BY: _____
 (Type) CORPORATE SEAL

Attest: _____
 Corporate Surety

 Business Address

 BY: _____
 (Type) CORPORATE SEAL

Approved this _____ day of _____, 20 _____

 Deb M. Hall, City Clerk

 Bob McManus, Mayor

 Ron Aumann, Finance Director

NOT FOR BIDDING – BIDS SHALL BE SUBMITTED THRU QUESTCDN VBID. ONLINE BIDDING ONLY!

PROPOSAL FOR CONTRACT 2020-04
CITY OF MARSHFIELD

**SW INTERCEPTOR SEWER
RELOCATION AND ABANDONMENT
MH Y1 TO MH 087**

CONTRACT 2020-04

PLAN NO. 1657

PROJECT NO. 352328

BIDS RECEIVED ON QUEST CDN UNTIL 4:00 PM

DATE: August 12, 2020

This Proposal, submitted by the undersigned bidder to the City of Marshfield, Wisconsin in accordance with the Notice to Bidders, to furnish and deliver all materials, and to do and perform all work for the above named projects, in accordance with the applicable Specifications, Plans and Special Provisions for the work.

The undersigned bidder, if awarded the Contract, agrees to begin the work no later than ten (10) days after the date of written notification from the City Engineer to do so, and to complete the same in accordance with the Specifications and Special Provisions.

The undersigned bidder, submitting this proposal, hereby declares and agrees to be bound, and to perform the work in accordance with all the terms, conditions and requirements of the within and foregoing proposal, the Contract, the Specifications, the Special Provisions and the Plans.

The bidder declares that he has carefully examined the project site(s), the Proposal, Specifications and Contract form for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the Specifications, Plans, Special Provisions and Contract. It is mutually agreed that submission of a Proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder declares that he understands the estimate of quantities in the attached schedule is approximate only and that the actual quantities may be greater or less in accordance with the Specifications.

The bidder agrees to perform the said work for and in consideration of the payment of the amount becoming due on account of work performed, according to the Unit Prices bid in the following schedule, and to accept such amounts in full payment for such work.

The bidder declares that only the persons, firm or corporation herein named have an interest in this Proposal and that the same is submitted without collusion with any person, firm or corporation.

The bidder declares that if he is awarded the Contract, he will execute the Contract agreement and begin and complete the work within the time named herein and he will file a good and sufficient contract bond in the sum of the total amount of the Contract to guarantee the successful execution of the work and will comply with the requirements of Chapter 102 of the Wisconsin Statutes, dealing with Workers Compensation.

The bidder declares that if he is awarded the Contract, he will comply with the requirements relative to the maximum daily and weekly hours of labor and the minimum wage rates set for the various occupations or classifications of labor.

NOT FOR BIDDING – BIDS SHALL BE SUBMITTED THRU QUESTCDN VBID. ONLINE BIDDING ONLY!

Item No.	Item Description	Quantity	Unit	Unit Price	Cost
1-1	MOBILIZATION, BONDS, AND INSURANCE	1	LS	\$	\$
1-2	SITE MAINTENANCE AND RESTORATION	1	LS	\$	\$
3-1	SAW ASPHALTIC SURFACE	356	LF	\$	\$
3-2	REMOVE ASPHALT SURFACE	220	SY	\$	\$
3-3	REMOVE CURB & GUTTER	30	LF	\$	\$
4-1	UTILITY LINE OPENING (ULO)	1	EA	\$	\$
5-1	BASE AGGREGATE DENSE 1-1/4 INCH, IN-PLACE (9-INCH DEPTH)	220	SY	\$	\$
10-1	ABANDON SANITARY SEWER VIA FILL-IN-PLACE (PUMPED), 15"	152	LF	\$	\$
10-2	ABANDON SANITARY SEWER VIA FILL-IN-PLACE (PUMPED), 30"	480	LF	\$	\$
10-3	ABANDON SANITARY SEWER MANHOLE	4	EA	\$	\$
10-4	REMOVE EXISTING SANITARY SEWER	25	LF	\$	\$
10-5	SEAL MANHOLE O87	1	LS	\$	\$
18-1	EROSION AND SEDIMENTATION CONTROLS	1	LS	\$	\$
19-1	WATER MAIN, 4" D.I. VERTICAL OFFSET	2	EA	\$	\$
19-2	WATER MAIN, 4" D.I. PIPE	10	LF	\$	\$
20-1	SANITARY SEWER - 18" PVC	217	LF	\$	\$
20-2	SANITARY MANHOLE Y1, PRECAST, 48" DIAMETER, COMPLETE	1	LS	\$	\$
20-3	SANITARY MANHOLE O89, CAST-IN-PLACE, INCLUDING UPPER 48" PRECAST SECTION, COMPLETE	1	LS	\$	\$
20-4	BYPASS PUMPING	1	LS	\$	\$
24-1	TRAFFIC CONTROL	1	LS	\$	\$
TOTAL AMOUNT BID				\$	

CONTRACTOR

DATE: _____

WE _____ (NAME OF BIDDER) have examined the bidding documents and the following Addenda (receipt of which is hereby acknowledged)

ADDENDUM NO.

DATE

_____	_____
_____	_____
_____	_____

NOT FOR BIDDING – BIDS SHALL BE SUBMITTED THRU QUESTCDN VBID. ONLINE BIDDING ONLY!

I hereby certify that all the statements herein are made on behalf of _____

(Name of Corporation, Partnership or Person submitting bid) a Corporation organized and existing under the laws of the State of _____;
a Partnership consisting of _____;
an Individual trading as _____;
of the City of _____ State of _____

that I have examined and carefully prepared this Proposal from the Plans and Specifications and have checked the same in detail before submitting this Proposal; that I have full authority to make such statements and submit this Proposal in its (their) behalf; and that the statements are true and correct.

Company

Address

Subscribed and sworn to before me
this ____ day of _____,
20____.

Notary Public

My Commission expires _____

BY: _____
Authorized Signature

Title

Telephone Number

Bidders should not add any conditions or qualifying statements to this Proposal, as otherwise the Proposal may be declared irregular as not being responsive to the advertisement.

NOT FOR BIDDING – BIDS SHALL BE SUBMITTED THRU QUESTCDN VBID. ONLINE BIDDING ONLY!

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PLACEHOLDER FOR PROPOSAL GUARANTEE

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**FULL AND COMPLETE LIST OF
SUBCONTRACTORS AND EQUIPMENT SUPPLIERS
TO BE USED FOR THIS PROJECT**

NOTE: This list cannot be altered after submission without written consent of the OWNER.

Pursuant to Section 66.0901(7), Wisconsin Statutes, the Bidder, as part of this Proposal, submits this full and complete list of all the Subcontractors and the class or work to be performed by each, including equipment suppliers to be used for this project.

The Contractor will be permitted to sublet a portion of the Contract, but shall perform with his own organization work amounting to at least 30 percent of the original contract amount.

If the Contractor shall sublet any part of this Contract, the Contractor shall be as fully responsible to the owner for the acts and omissions of his Subcontractor and of the persons either directly or indirectly employed by his Subcontractor as he is by acts or omissions of persons directly employed by himself. All Subcontractors, if any, shall be listed in the spaces provided on the Proposal Form and said list shall not be added to or altered without the written consent of the Owner.

When a Subcontractor and the class of work to be performed is not listed, it shall be considered that the Bidder will perform the work himself.

Subcontractor’s Name, Address, and Phone Number

Work to be Performed

Supplier’s Name, Address, and Phone Number

Equipment to be Supplied

I hereby certify that the use of the name(s) of the above Subcontractor(s) was with the knowledge and consent of the said Subcontractor(s).

Signature of Bidder

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SW INTERCEPTOR SEWER RELOCATION AND ABANDONMENT, MH Y1 TO MH O87

PLAN NO. 1657

CONTRACT 2020-04

CITY OF MARSHFIELD WOOD COUNTY, WISCONSIN

SHEET INDEX

G - GENERAL SHEETS

G 1	TITLE SHEET
G 2	EROSION CONTROL & ROAD DETAILS
G 3	WATER MAIN DETAILS
G 4	SANITARY SEWER DETAILS
G 5	SANITARY SEWER DETAILS
G 6	PROPOSED MANHOLE O89 DETAIL
G 7	REMOVAL OF EXISTING MANHOLE O89 DETAIL
G 8	PROJECT AREA OVERVIEW

**SW INTERCEPTOR SEWER RELOCATION AND ABANDONMENT,
MH Y1 TO MH O87 - PLAN NO. 1657**

PP 1	SANITARY SEWER INTERCEPTOR PLAN & PROFILE
PP 2	EXISTING SANITARY SEWER INTERCEPTOR REMOVALS AND ABANDON-FILL



PROJECT LOCATION



PROJECT LOCATION

LOCATION MAP
NOT TO SCALE



Dial **811** or (800) 242-8511

www.DiggersHotline.com

LEGEND

	EXISTING WATER MAIN
	EXISTING WATER MAIN, VALVE & HYDRANT
	EXISTING WATER SERVICE & CURB STOP
	PROPOSED WATER MAIN, VALVE, & HYDRANT
	PROPOSED WATER SERVICE & CURB STOP
	EXISTING SANITARY SEWER & MANHOLE
	PROPOSED SANITARY SEWER & MANHOLE
	EXISTING FORCEMAIN
	EXISTING STORM SEWER & INLET
	PROPOSED STORM SEWER & INLET
	PROPOSED STORM SEWER & MANHOLE
	BURIED ELECTRIC
	BURIED GAS & VALVE
	BURIED CABLE TELEVISION
	BURIED TELEPHONE
	BURIED FIBER OPTICS
	OVERHEAD UTILITY
	RAILROAD TRACKS
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	EXISTING SIDEWALK
	PROPOSED SIDEWALK
	EXISTING CULVERT PIPE
	PROPOSED CULVERT PIPE
	FENCE LINE
	DRAINAGE ARROW
	SILT FENCE
	RIGHT-OF-WAY
	BASELINE
	PROPERTY LINE
	TREE LINE
	BENCHMARK
	IRON PIPE
	IRON ROD
	CONTROL POINT
	UTILITY POLE & GUY
	SOIL BORING
	LIGHT POLE
	PEDESTAL
	STREET SIGN
	MAILBOX
	FLAGPOLE
	TREE - DECIDUOUS
	TREE - CONIFEROUS
	TREE TO BE REMOVED

UTILITIES

GAS:
WE ENERGIES
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
ATTN: CRAIG KNAUF
PHONE: (715) 421-7267
EMAIL: CRAIG.KNAUF@WE-ENERGIES.COM

ELECTRIC:
MARSHFIELD UTILITIES
2000 S. CENTRAL AVE.
MARSHFIELD, WI 54449
ATTN: TONY NELSON
PHONE: (715) 898-2140
EMAIL: TONY.NELSON@MARSHFIELDUTILITIES.ORG

TELEPHONE:
FRONTIER COMMUNICATIONS
1851 NORTH 14TH AVE.
WAUSAU, WI 54401
ATTN: TOM LOCKE
PHONE: (715) 847-1550
EMAIL: TOM.LOCKE@FTR.COM

WATER:
MARSHFIELD UTILITIES
P. O. BOX 670
MARSHFIELD, WI 54449
ATTN: JOHN RICHMOND
PHONE: (715) 898-2170
EMAIL: JOHN.RICHMOND@MARSHFIELDUTILITIES.ORG

WASTEWATER:
CITY OF MARSHFIELD
WASTEWATER UTILITY
2601 EAST 34TH STREET
MARSHFIELD, WI 54449
ATTN: SAM WARP
PHONE: (715) 486-2007
EMAIL: SAM.WARP@CI.MARSHFIELD.WI.US

CATV:
CHARTER COMMUNICATIONS
503 E. IVES STREET, #316
MARSHFIELD, WI 54449
ATTN: JESSE GRUNY
PHONE: (715) 651-5605
EMAIL: JESSE.GRUNY@CHARTER.COM

CITY CONTACTS:
DAN KNOECK, P.E., DIRECTOR OF PUBLIC WORKS
TOM TURCHI, P.E., CITY ENGINEER
TIM CASSIDY, P.E., ASSISTANT CITY ENGINEER
JOSH MAURITZ, P.E., CIVIL ENGINEER II
LANCE OLDHAM, ENGINEERING TECHNICIAN
SHAWN MILLER, ENGINEERING TECHNICIAN

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

PROJECT DATE	NO.	DATE	REVISION	BY

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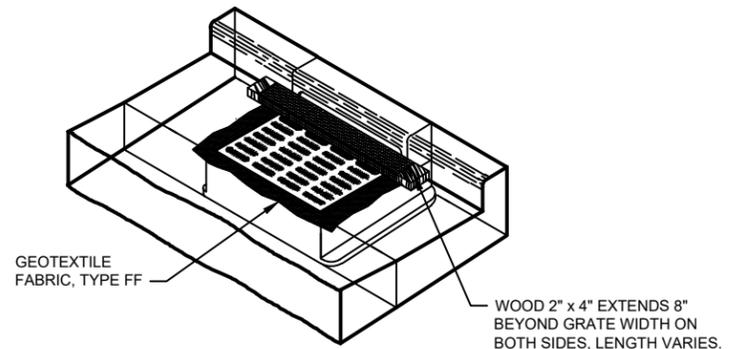
SW INTERCEPTOR SEWER - PLAN NO. 1657
CITY OF MARSHFIELD
WOOD COUNTY, WI

TITLE SHEET

PROJECT NO.
584124
SHEET
G 1

**CONSTRUCTION SITE
EROSION CONTROL REQUIREMENTS**

- SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
- THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
- ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- THE AREA OF EROSION LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
- ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
- ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
- ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
- WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
- CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
- THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
- EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
- ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
 - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
- ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
- ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
- ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.



INSTALLATION NOTES:

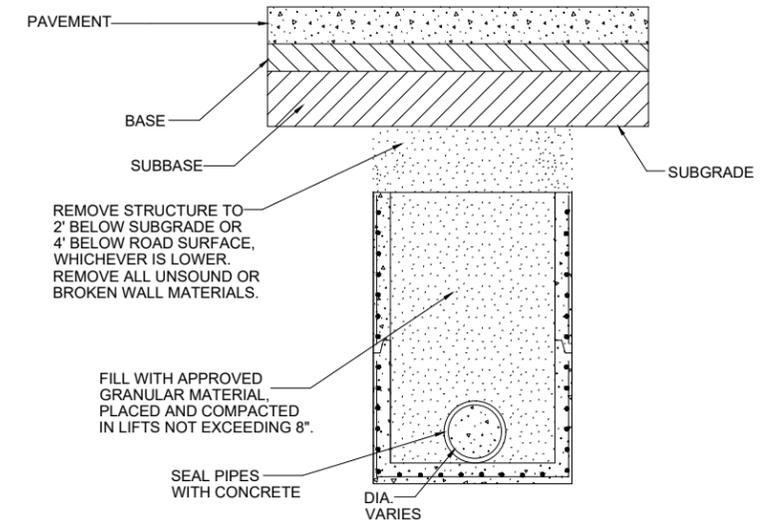
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**INLET PROTECTION, TYPE C
NO SCALE**

GENERAL NOTES - INLET PROTECTION

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

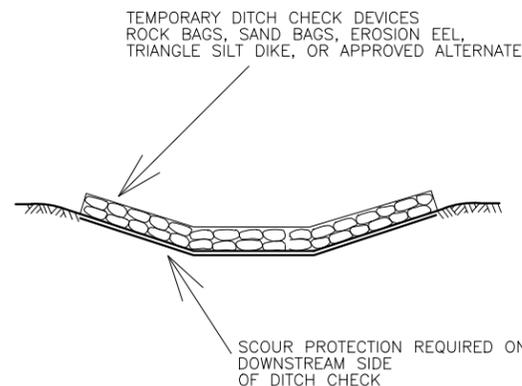
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



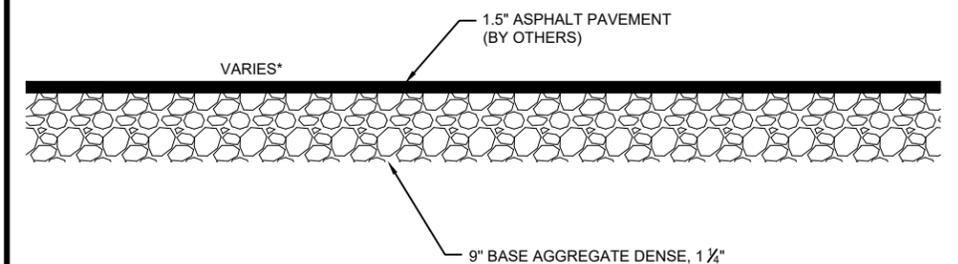
ABANDON MANHOLE

GENERAL NOTES

MANUFACTURED DEVICES SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURES RECOMMENDATIONS



TEMPORARY DITCH CHECK DETAIL



*MATCH EXISTING CROSS SLOPE. MAINTAIN DRAINAGE TO ALL DRAINAGE STRUCTURES.

**PROPOSED POOL ENTRANCE ROAD REPAIR SECTION
NO SCALE**

PROJECT DATE:	NO.	DATE	REVISION	BY:
DRAWN BY: MJG				
DESIGNED BY: MAV				
CHECKED BY: Init				

PLOT DATE: 7/7/2020 9:49 AM, G:\00\00584\00584124\CADD\Construction Documents\00584124 GENERALS.dwg



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CITY OF MARSHFIELD
WOOD COUNTY, WI

EROSION CONTROL & ROAD DETAILS

PROJECT NO.
584124
SHEET
G 2

JOINT RESTRAINT SHALL BE REQUIRED. ACCEPTABLE MATERIALS INCLUDE 3/4" THREADED RODS (2) W/RETAINER GLANDS, RESTRAINING PIPE JOINT GASKETS, OR RESTRAINING MECHANICAL JOINT GLANDS (MEGA LUGS, ETC.).

LENGTH OF PIPELINE TO BE RESTRAINED SHALL BE AS FOLLOWS:

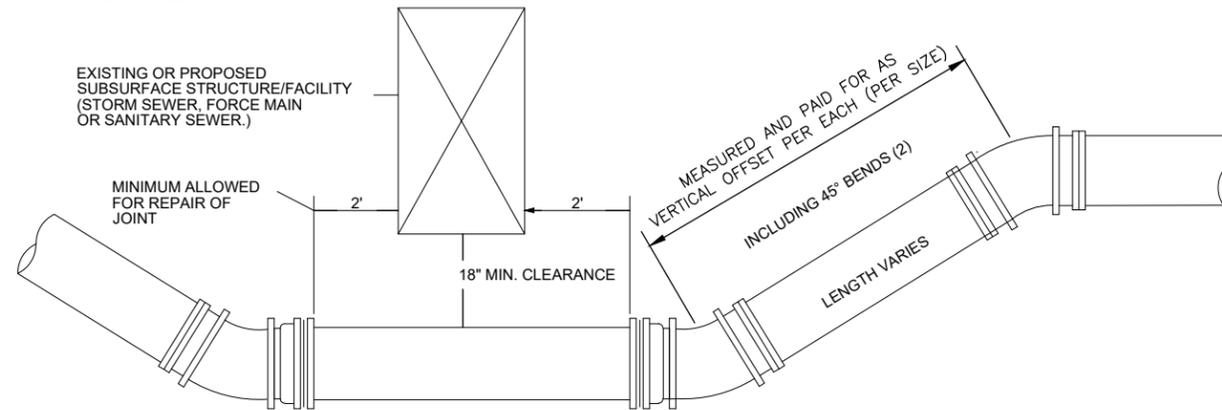
RUN OF TEE
ALL SIZES = 10 LF EACH SIDE OF BRANCH

BRANCH OF TEE:
4", 6", & 8" PIPE = 35 LF
10" PIPE = 45 LF
12" PIPE = 55 LF
16" PIPE = 65 LF

BENDS:
4", 6", & 8" PIPE = 25 LF EACH SIDE OF FITTING
10" PIPE = 35 LF EACH SIDE OF FITTING
12" PIPE = 45 LF EACH SIDE OF FITTING
16" PIPE = 55 LF EACH SIDE OF FITTING

DEAD ENDS:
4", 6", & 8" PIPE = 35 LF
10" PIPE = 45 LF
12" PIPE = 55 LF
16" PIPE = 65 LF

NOTE: MJ OFFSET FITTINGS MAY BE USED IF APPROVED BY THE ENGINEER.



WATER SERVICE (4" & LARGER) VERTICAL OFFSET

NOTES:

EXISTING WATER SYSTEM AND PROPOSED ISOLATION GATE VALVES SHALL ONLY BE OPERATED BY MARSHFIELD UTILITIES.

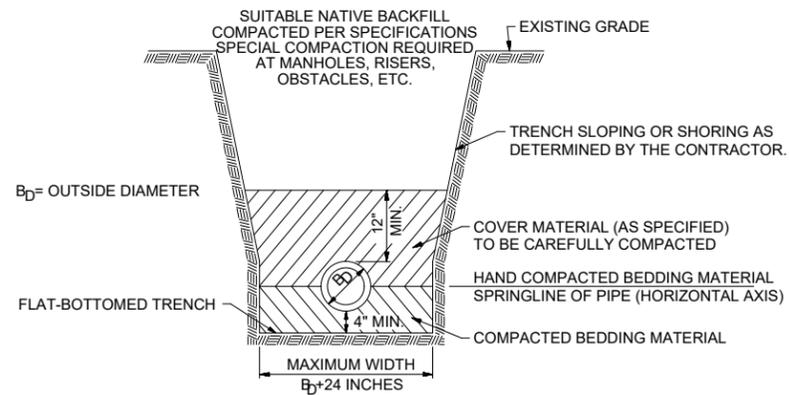
CONTRACTOR TO PROVIDE A CONTINUOUS SUPPLY OF SAFE WATER TO AFFECTED PROPERTIES, WHEN APPLICABLE.

ALL PIPE, VALVES, FITTINGS AND HYDRANTS TO BE POLYWRAPPED.

CONDUCTIVITY PROVISIONS SUCH AS STRAPS OR CABLES ARE REQUIRED FOR ALL JOINTS INCLUDING PIPE, VALVES, FITTINGS AND SLEEVES. CONDUCTIVITY TESTING WILL BE REQUIRED.

HYDROSTATIC TEST PRESSURE FOR WATER PIPE SHALL BE 150 PSI.

SPECIAL COMPACTION IS REQUIRED AT HYDRANTS, VALVE BOXES, CURB BOXES, AND OTHER RISERS.



NOTES:

BEDDING AND COVER MATERIAL: MATERIAL SHALL BE BANK-RUN SAND, CRUSHED BANK RUN GRAVEL, OR OTHER APPROVED MATERIAL CONFORMING SUBSTANTIALLY TO THE FOLLOWING GRADING REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
1"	100
3/4"	85 TO 100
NO. 40	15 TO 35
NO. 200	2 TO 10

TYPICAL TRENCH SECTION
WATER MAIN AND WATER
SERVICE CONSTRUCTION

PROJECT DATE	DRAWN BY	NO.	DATE	REVISION	BY
	MJG	-	-		
	MAV	-	-		
	Init	-	-		



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WATER MAIN DETAILS

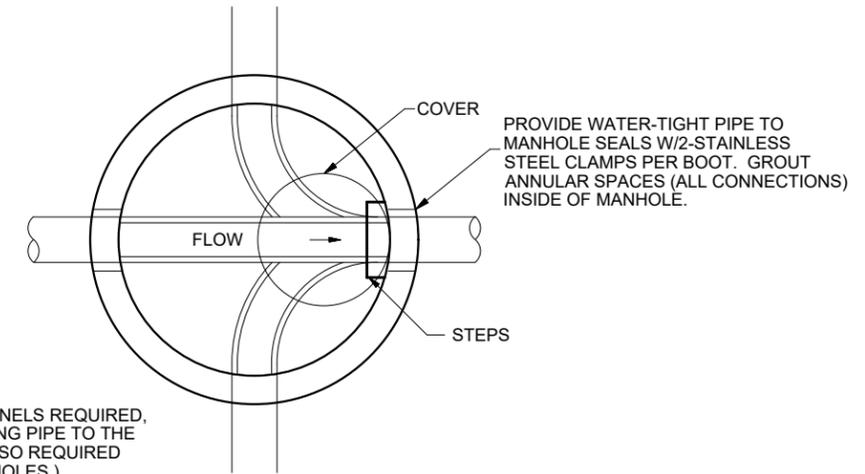
PROJECT NO.
584124
SHEET
G 3

SPECIFICATIONS:

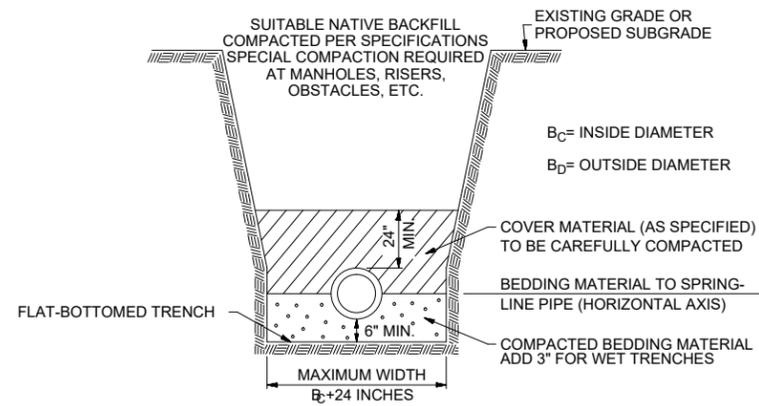
- MANUFACTURED TO CURRENT ASTM C-478 SPECIFICATIONS
- CONCRETE STRENGTH - 4000 PSI
- STEEL DESIGN IN ACCORDANCE WITH ASTM C-478 0.12 SQ. IN./FT.
- ALL REINFORCING IS DESIGNED FOR MIN. 1" COVER
- STEP - STEEL, PLASTIC COATED 16" ON CENTER
- MONOLITHIC BASE WITH INLET AND OUTLET OPENING AS REQUIRED
- 48" DIAMETER MANHOLE WILL ACCOMMODATE A 24" DIAMETER PIPE PASSING STRAIGHT THROUGH
- 48" DIAMETER - 5" WALL 890 LBS./FT

NOTE:

ALL STRUCTURES AND COMPONENTS SHALL BE LABELED BY THE MANUFACTURER IN ACCORDANCE WITH PLAN/SCHEDULE IDENTIFICATION



DEFINED FLOW CHANNELS REQUIRED, FROM EACH INFLOWING PIPE TO THE DISCHARGE PIPE. (ALSO REQUIRED FOR DEAD-END MANHOLES.) ALL FLOWLINES SHALL BE SMOOTH.



NOTES:

BEDDING AND COVER MATERIAL: CRUSHED STONE CHIPS MEETING THE FOLLOWING GRADING REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
1/2"	100
3/4"	90 TO 100
NO. 8	0 TO 15
NO. 30	0 TO 3

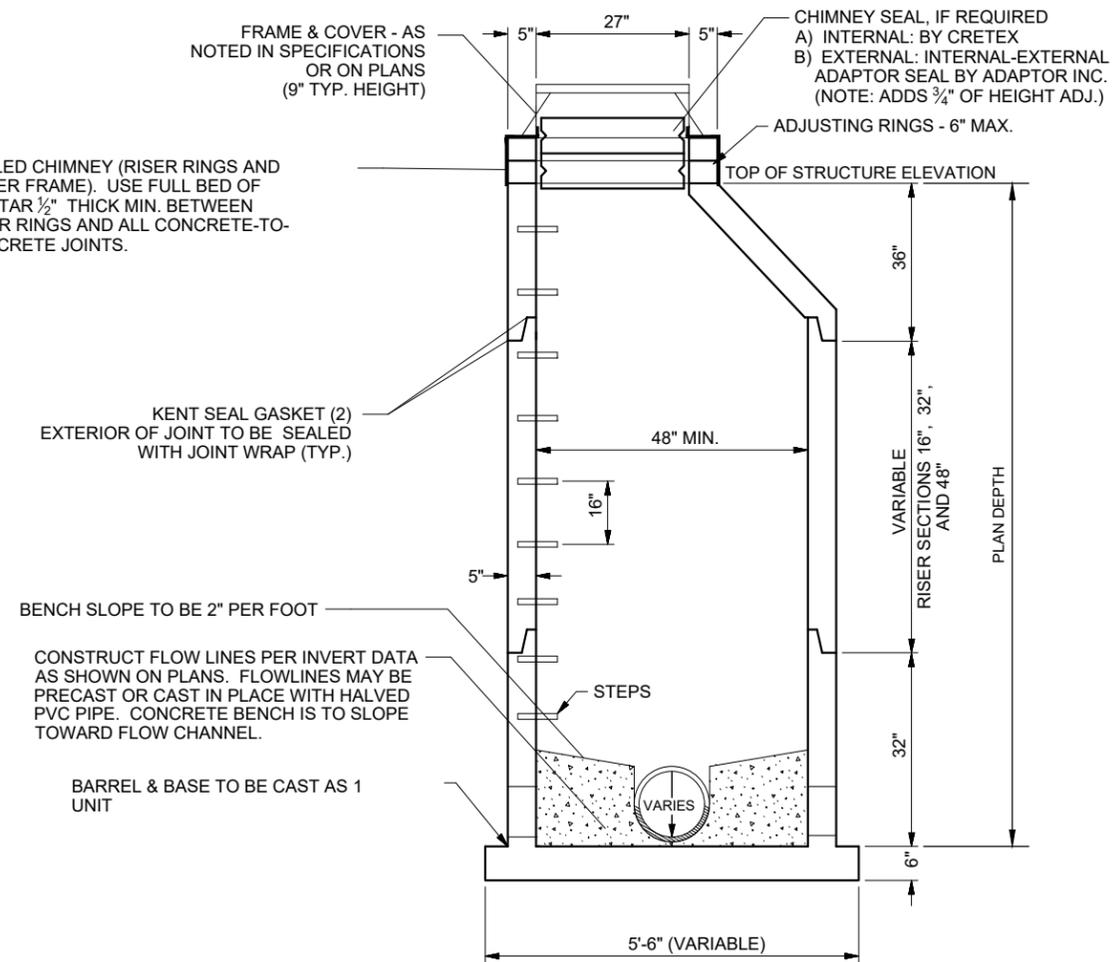
TRENCH WIDTH: THE MAXIMUM TRENCH WIDTH AT THE TOP OF THE PIPE SHALL BE $B_c + 24$ INCHES.
SPECIAL COMPACTION REQUIRED AT MANHOLES, RISERS, ETC.

**TYPICAL TRENCH SECTION
SANITARY SEWER CONSTRUCTION**

GRAVITY MAINS, LATERALS AND FORCE MAINS

* AT APPROX. 20' UPSTREAM OF MANHOLES, INSTALL APPROVED NATIVE MATERIAL (CLAY TRENCH PLUG) TO FULL TRENCH DEPTH, 6' ALONG PIPE, ACROSS FULL TRENCH WIDTH, IN LEU OF BEDDING AND COVER MATERIAL.

SEALED CHIMNEY (RISER RINGS AND COVER FRAME). USE FULL BED OF MORTAR 1/2" THICK MIN. BETWEEN RISER RINGS AND ALL CONCRETE-TO-CONCRETE JOINTS.



PRE-CAST CONCRETE SANITARY MANHOLE, TYPE 1 DETAIL

NOTE: LENGTH OF SANITARY SEWER MAINS = MANHOLE CENTER TO MANHOLE CENTER.
PIPE SLOPE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
INVERT ELEVATION IS AT INSIDE MANHOLE WALL.
PAY DEPTH IS FROM BOTTOM OF CASTING TO LOWEST INVERT.

PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
	MJG				
	MAV				
	Init				

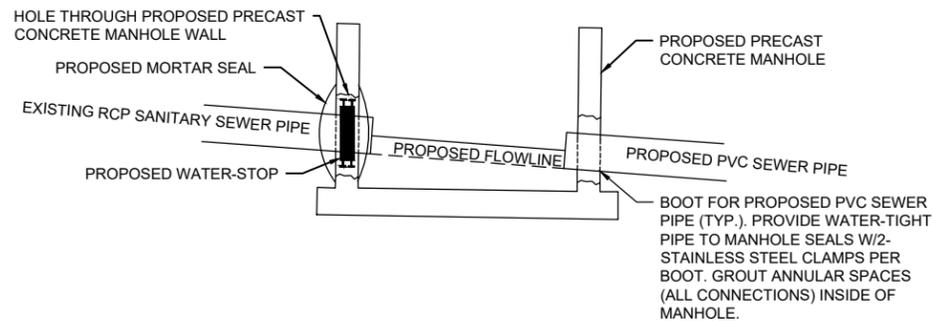


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SW INTERCEPTOR SEWER - PLAN NO. 1657
CITY OF MARSHFIELD
WOOD COUNTY, WI

SANITARY SEWER DETAILS

PROJECT NO.
584124
SHEET
G 4



NOTES:

EXISTING RCP SANITARY SEWER PIPE SHALL BE CONNECTED TO THE PROPOSED PRECAST MANHOLE AND SEALED WATER-TIGHT AS FOLLOWS:

- REMOVE EXISTING MANHOLE AND MORTAR SEAL ENTIRELY.
- CLEAN EXISTING CONCRETE PIPE END.
- APPLY BONDING AGENT TO ALL EXPOSED PRECAST CONCRETE MANHOLE WALL, FACES, AND EDGES AROUND THE CIRCUMFERENCE OF THE EXPOSED WALL AT THE PIPE CONNECTION.
- APPLY BONDING AGENT TO END OF THE EXISTING RCP PIPE. APPLY AROUND ENTIRE PIPE TO 18" FROM END OF PIPE PROTRUDING INTO MANHOLE.
- INSTALL WATER-STOP (SEE MATERIAL SPEC'S BELOW) ON THE RCP PIPE, POSITIONED TO BE CENTERED AT THE MH WALL, AND ALIGNED PARALLEL WITH ALL VERTICAL WALL FACES.
- USE A QUALITY, LOW SLUMP, SMALL STONE CONCRETE MIXTURE (READY-MIX RECOMMENDED) FOR THE PROPOSED 'MORTAR' SEAL MATERIAL. (SEE SPEC'S BELOW). VIBRATE AND/OR ROD TO ASSURE SUFFICIENT CONTACT AT MANHOLE WALLS AND AROUND WATER-STOP. TROWEL SURFACES OF THE PROPOSED MORTAR SEAL TO PROVIDE A SMOOTH FINISH WITHOUT VOIDS/HONEYCOMBS.

WATER-STOP SPEC'S

- SBR COMPOUND (TYPICAL) WITH STAINLESS STEEL HARDWARE
- ALL MATERIAL IN COMPLIANCE WITH ASTM C-923 AND 1478
- WATER-STOP SHALL BE AS MANUFACTURED BY A-LOK PRODUCTS INC, TYPE 'ONE-PIECE SPLICED WATER-STOP' (FOR MORTARED CONNECTIONS TO PRECAST STRUCTURES) SIZED PER SPECIFIC SEWER PIPE TO BE USED.

PIPE MATERIAL	NOMINAL ID (INCH)	OD (INCH)	ROUGH-IN HOLE SIZE IN MANHOLE (INCH)	A-LOK PRODUCT
CONCRETE	24	30	35	WS-30.00-S

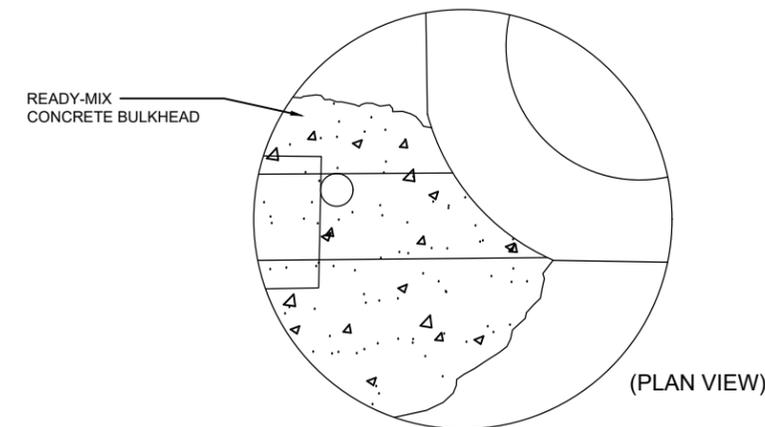
PROPOSED 'MORTAR' SEAL

- 6-BAG/GRADE A MIX 4000PSI
- 3/8" MINUS AGGREGATE (MAX)
- 3" MAX SLUMP

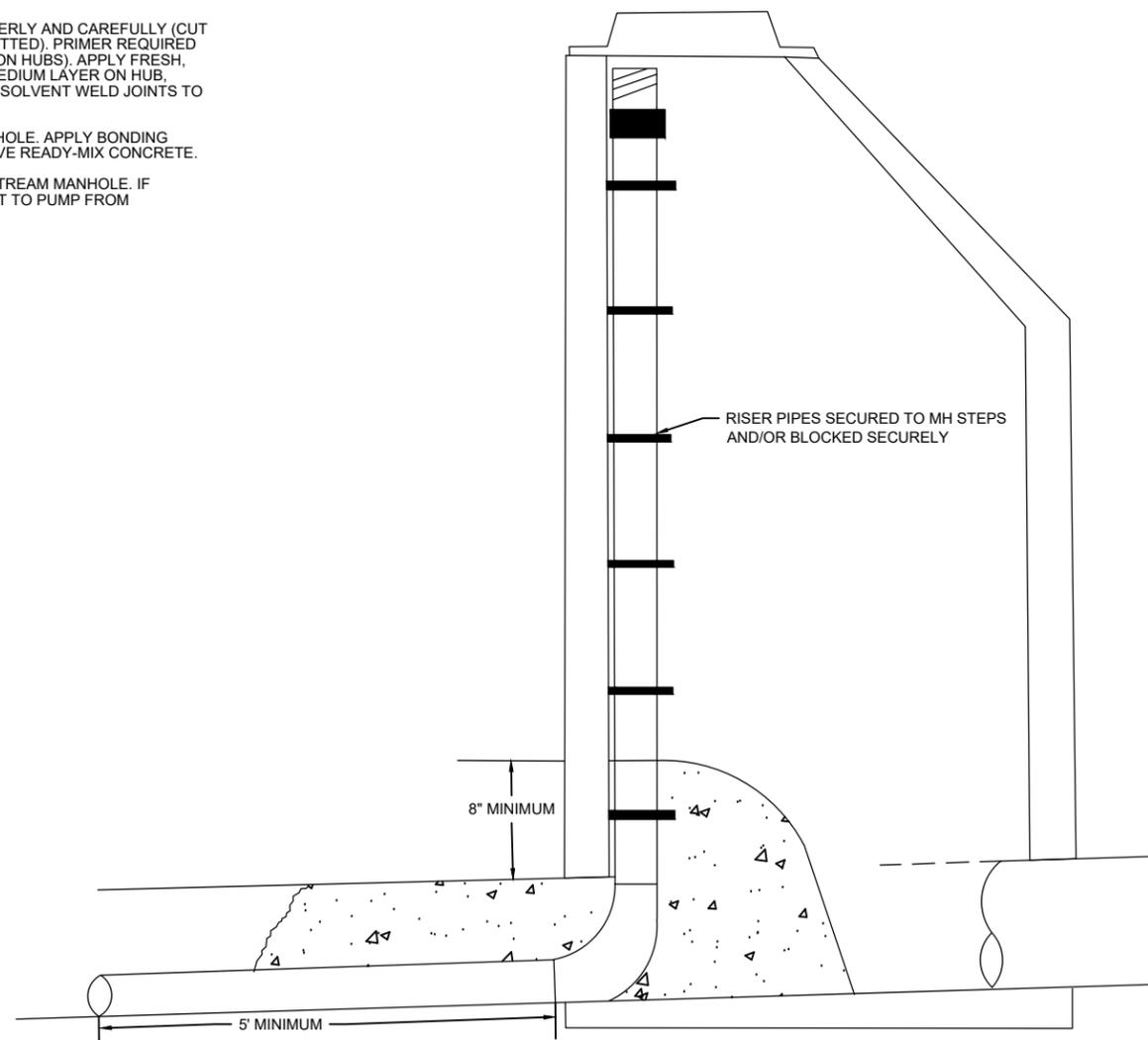
SANITARY MANHOLE Y1 WATER STOP DETAIL
NO SCALE

NOTES:

1. ALL PIPE MATERIALS SHALL BE SCH 80 PVC WITH SOLVENT WELD JOINTS.
2. FILL PIPE SHALL BE 4" DIAMETER (REQUIRED AT UPSTREAM AND DOWNSTREAM MANHOLES). ADDITIONAL VENT PIPE SHALL BE 2" DIAMETER (REQUIRED AT DOWNSTREAM MANHOLE).
3. PUMP CONNECTION SHALL BE ACCOMPLISHED WITH 4" PVC HUB X FEMALE PIPE THREAD ADAPTOR. SOLVENT WELD JOINT SHALL ALSO BE BOLTED/PINNED.
4. RISER PIPES SHALL BE A CONTINUOUS LENGTH OF PIPE WITHOUT ANY EXPOSED JOINTS.
5. SOLVENT WELD JOINTS SHALL BE DONE PROPERLY AND CAREFULLY (CUT SQUARELY, DEBURRED, CLEANED, AND DRY-FITTED). PRIMER REQUIRED FOR ALL JOINED SURFACES (2 APPLICATIONS ON HUBS). APPLY FRESH, MIXED CEMENT (FULL LAYER ON PIPE, THEN MEDIUM LAYER ON HUB, THEN ANOTHER FULL LAYER ON PIPE). ALLOW SOLVENT WELD JOINTS TO CURE FOR 3 DAYS, MINIMUM.
6. CLEAN PIPE AND FLOWLINE OF EXISTING MANHOLE. APPLY BONDING AGENT TO ALL EXISTING SURFACES TO RECEIVE READY-MIX CONCRETE.
7. PUMP FROM UPSTREAM MANHOLE TO DOWNSTREAM MANHOLE. IF UNABLE TO FILL THE SEGMENT, THEN ATTEMPT TO PUMP FROM DOWNSTREAM TO UPSTREAM.



(PLAN VIEW)



ABANDON / FILL PUMP CONNECTION AT SANITARY SEWER MANHOLE*
NO SCALE

*CITY OF MARSHFIELD - DEPARTMENT OF PUBLIC WORKS DETAIL

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DESIGNED BY: MAV	-	-	-	-
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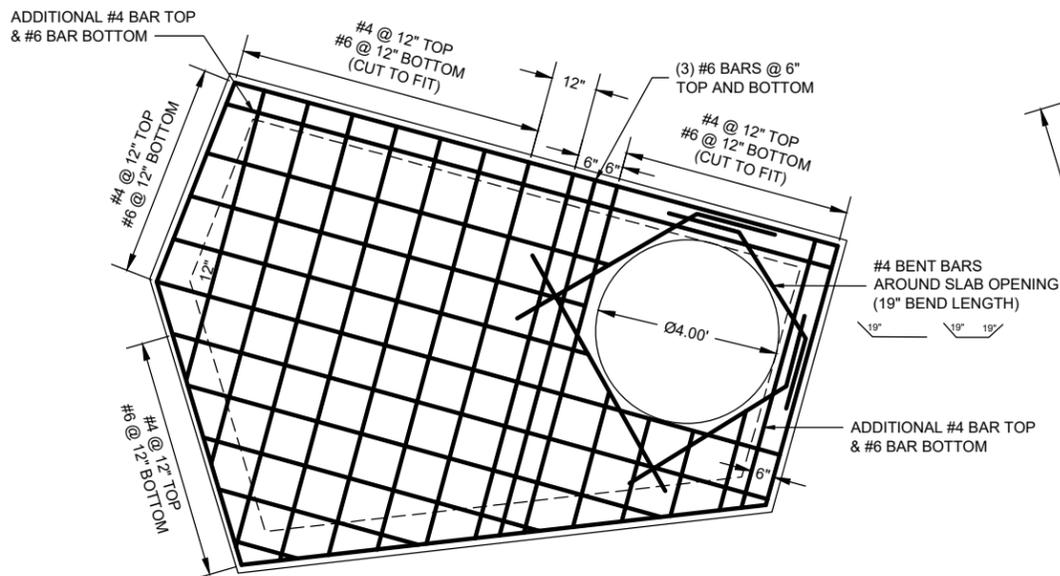
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SANITARY SEWER DETAILS

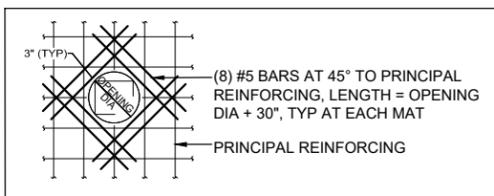
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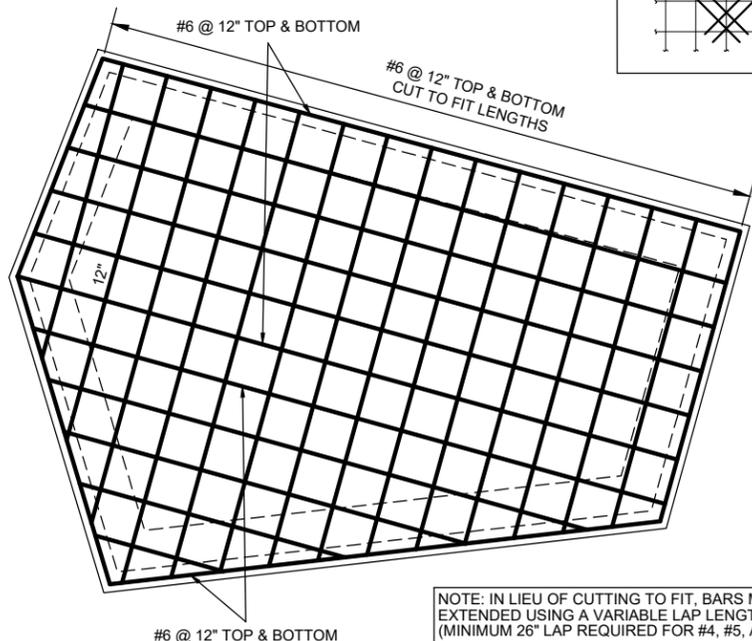
TOP SLAB REINFORCEMENT
NO SCALE



DIAGONAL REINFORCING AT VERTICAL CONCRETE WALL PIPE OPENINGS
NO SCALE

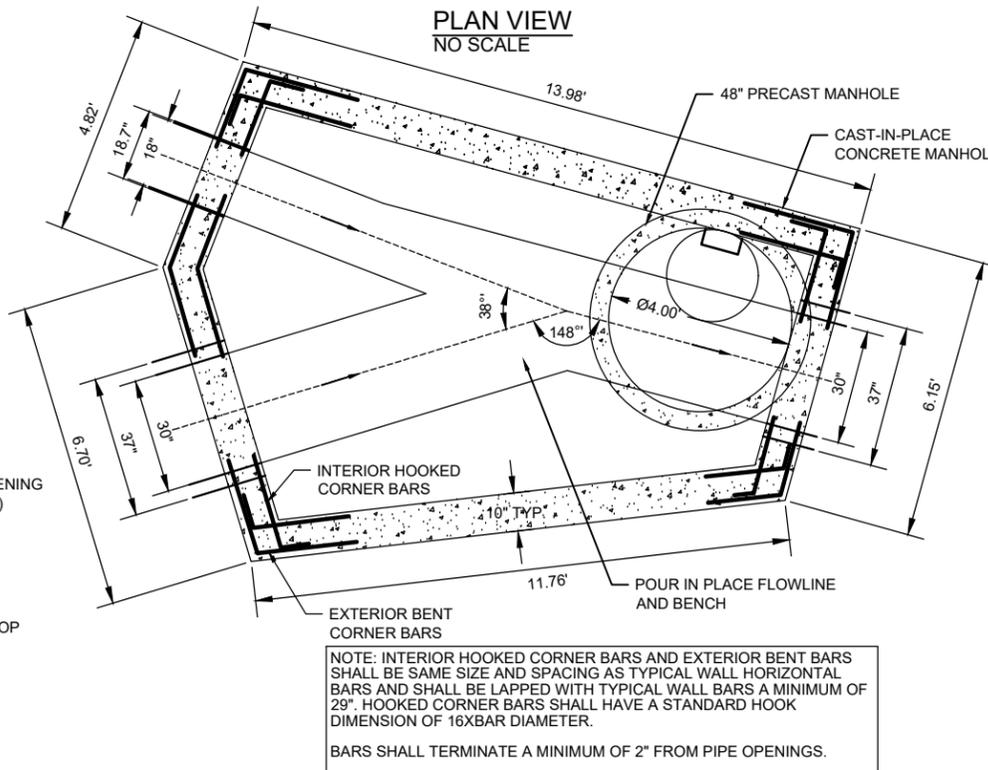


BOTTOM SLAB REINFORCEMENT
NO SCALE



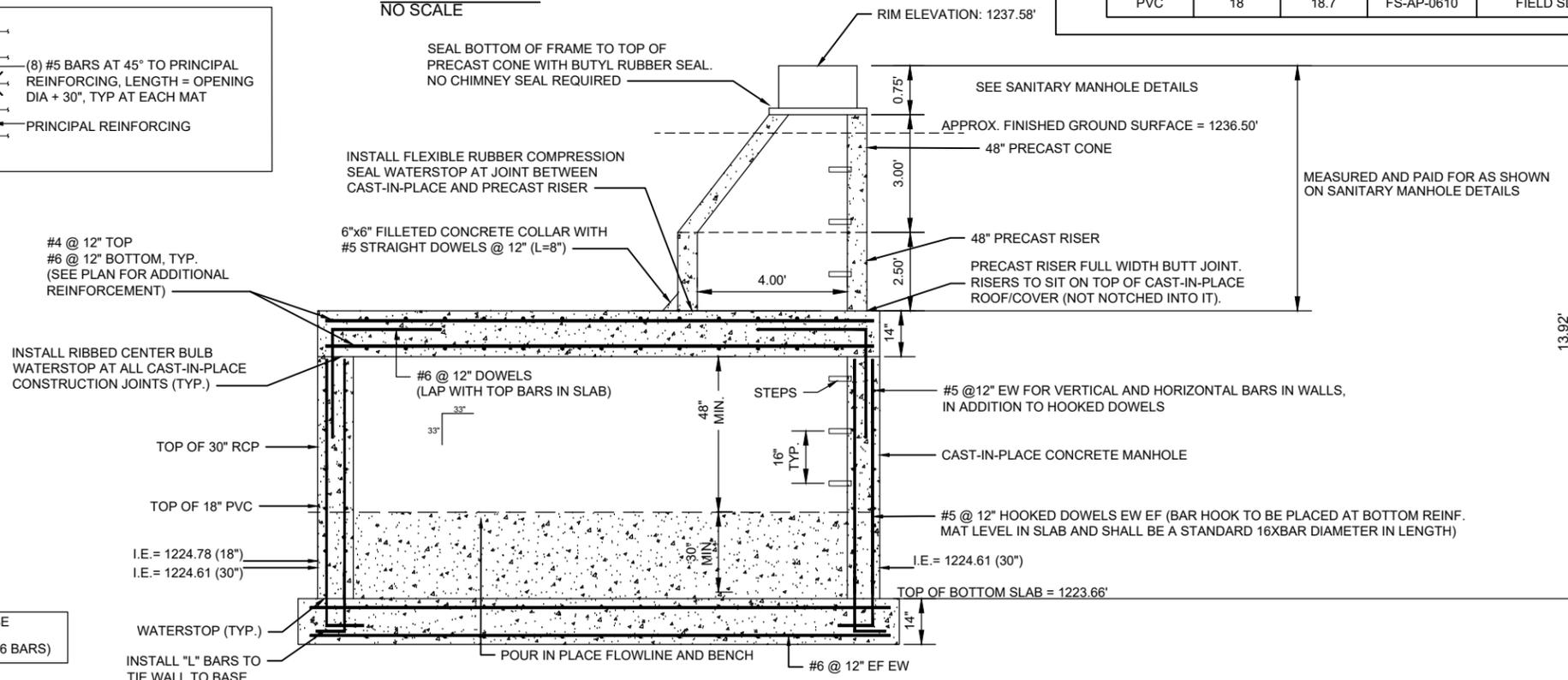
NOTE: IN LIEU OF CUTTING TO FIT, BARS MAY BE EXTENDED USING A VARIABLE LAP LENGTH (MINIMUM 26" LAP REQUIRED FOR #4, #5, AND #6 BARS)

PLAN VIEW
NO SCALE



NOTE: INTERIOR HOOKED CORNER BARS AND EXTERIOR BENT BARS SHALL BE SAME SIZE AND SPACING AS TYPICAL WALL HORIZONTAL BARS AND SHALL BE LAPPED WITH TYPICAL WALL BARS A MINIMUM OF 29". HOOKED CORNER BARS SHALL HAVE A STANDARD HOOK DIMENSION OF 16XBAR DIAMETER.
BARS SHALL TERMINATE A MINIMUM OF 2" FROM PIPE OPENINGS.

SECTION VIEW
NO SCALE



NOTES:

- SEE CITY MANHOLE DETAILS
- CONTRACTOR SHALL CONFIRM O.D. OF EXISTING 30" CONCRETE PIPE TO SIZE WATERSTOP
- MAINTAIN 2" MINIMUM CLEARANCE FROM EDGE OF CONCRETE TO REBAR.
- CAST-IN-PLACE MANHOLES SHALL COMPLY WITH SECTION 7.3.3 OF THE CITY OF MARSHFIELD STANDARD SPECIFICATIONS AND THESE NOTES AND DETAILS.
- RUB AND FILL ALL HONEYCOMB AREAS UPON REMOVAL OF FORMS.
- SEAL EXTERIOR OF ALL CONCRETE CONSTRUCTION JOINTS AND PRECAST BUTT JOINT WITH MATERIALS APPROVED BY THE ENGINEER.

ADDITIONAL REQUIREMENTS FOR PIPE WATERSTOPS:

- THOROUGHLY CLEAN THE PIPE PRIOR TO INSTALLING WATERSTOP. AN ABRASIVE SURFACE IS PREFERRED INSTEAD OF A SMOOTH SURFACE.
- INSTALL WATERSTOP PER THE MANUFACTURER'S RECOMMENDATIONS.
- APPLY CONCRETE BONDING AGENT TO CONCRETE PIPE ADJACENT TO WATERSTOP PRIOR TO POURING WALLS.
- WATERSTOP AND FIELD SLEEVES SHALL USE SBR COMPOUND (TYPICAL) WITH STAINLESS STEEL HARDWARE. ALL MATERIAL SHALL COMPLY WITH ASTM C-923 AND C-1478.
- WATERSTOP SHALL BE ONE-PIECE SPLICED WATERSTOPS AS MANUFACTURED BY A-LOK PRODUCTS, INC.
- FIELD SLEEVES SHALL BE AS MANUFACTURED BY A-LOK PRODUCTS, INC.
- FOR EXISTING 30-INCH RCP PIPES, INSTALL WATERSTOP ON PIPE PRIOR TO POURING CONCRETE WALLS AROUND PIPE.
- FOR PROPOSED 18-INCH PVC PIPE, INSTALL FIELD SLEEVE IN FORMS PRIOR TO POURING CONCRETE WALLS.
- WATERSTOP FOR CONSTRUCTION JOINTS: POLYVINYL CHLORIDE WATERSTOPS SHALL BE 4 INCHES LONG, 3/16 INCH THICK MINIMUM, RIBBED, CENTER BULB TYPE, AND SHALL COMPLY WITH U.S. CORPS OF ENGINEERS SPECIFICATION CRD-C572. POLYVINYL CHLORIDE WATERSTOPS SHALL BE GREENSTREAK STANDARD SYLE 702 OR EQUAL.

PIPE MATERIAL	NOMINAL ID (INCH)	OD (INCH)	A-LOK PRODUCT	TYPE
CONCRETE	30	37	WS-37.00-S	ONE-PIECE SPLICED WATERSTOP
PVC	18	18.7	FS-AP-0610	FIELD SLEEVE

ALL MATERIALS AND PROCEDURES WILL CONFORM TO CITY OF MARSHFIELD STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

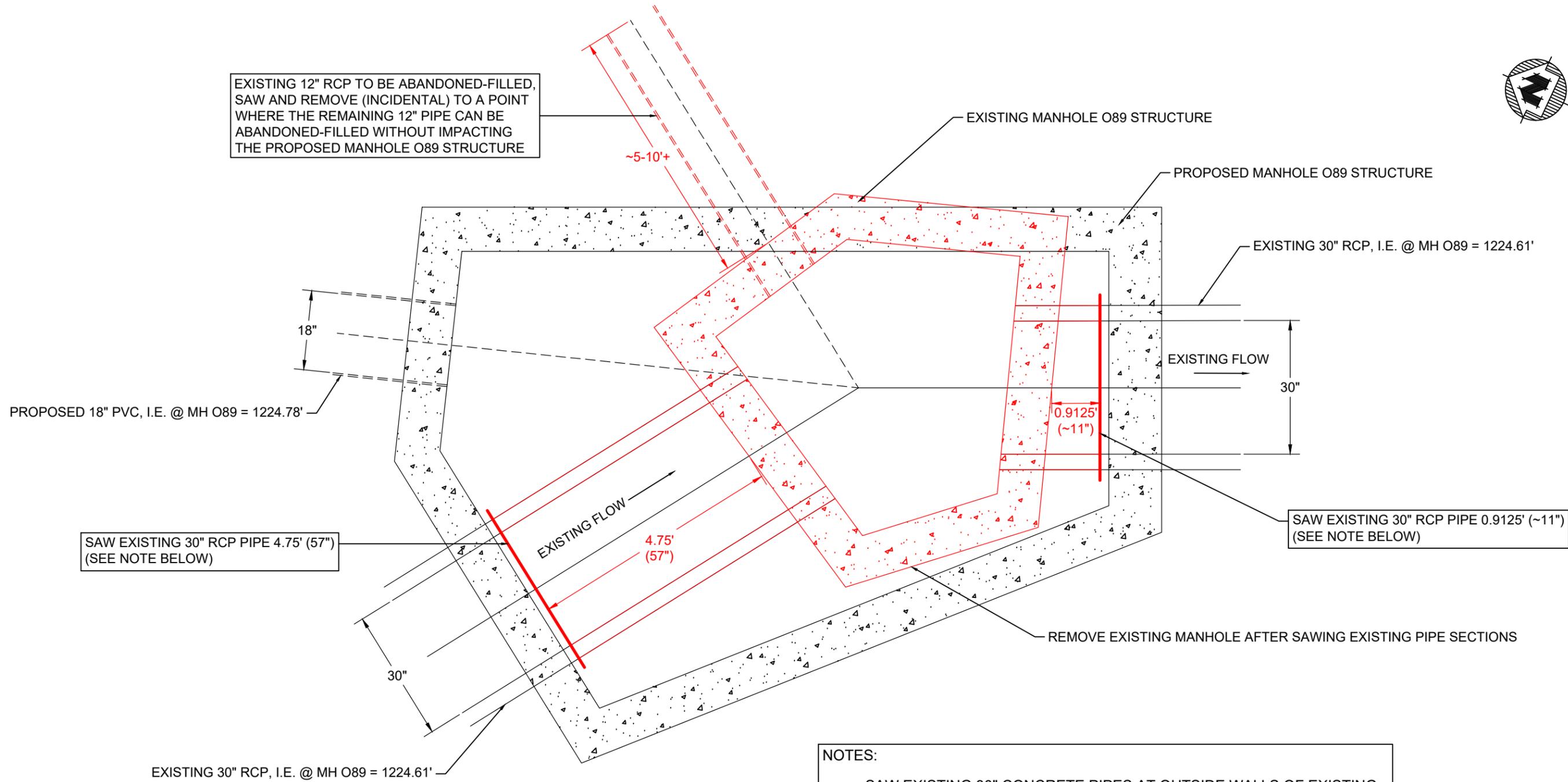
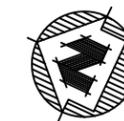
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PROPOSED MANHOLE O89 DETAIL

PROJECT NO.
584124
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EXISTING 12" RCP TO BE ABANDONED-FILLED, SAW AND REMOVE (INCIDENTAL) TO A POINT WHERE THE REMAINING 12" PIPE CAN BE ABANDONED-FILLED WITHOUT IMPACTING THE PROPOSED MANHOLE O89 STRUCTURE

EXISTING MANHOLE O89 STRUCTURE

PROPOSED MANHOLE O89 STRUCTURE

EXISTING 30" RCP, I.E. @ MH O89 = 1224.61'

EXISTING FLOW

30"

0.9125' (~11")

SAW EXISTING 30" RCP PIPE 0.9125' (~11") (SEE NOTE BELOW)

SAW EXISTING 30" RCP PIPE 4.75' (57") (SEE NOTE BELOW)

EXISTING FLOW

4.75' (57")

REMOVE EXISTING MANHOLE AFTER SAWING EXISTING PIPE SECTIONS

EXISTING 30" RCP, I.E. @ MH O89 = 1224.61'

NOTES:

- SAW EXISTING 30" CONCRETE PIPES AT OUTSIDE WALLS OF EXISTING MANHOLE O89, TO APPROX. 2" INSIDE LOCATION OF PROPOSED MANHOLE O89 INSIDE WALLS, REMOVE SAWED SECTIONS OF PIPE
- CONTRACTOR SHALL PROTECT REMAINING 30" CONCRETE PIPE

REMOVAL OF EXISTING MANHOLE O89 DETAIL
NO SCALE

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	DESIGNED BY: MAV	-	-	-	-
	CHECKED BY: Init	-	-	-	-

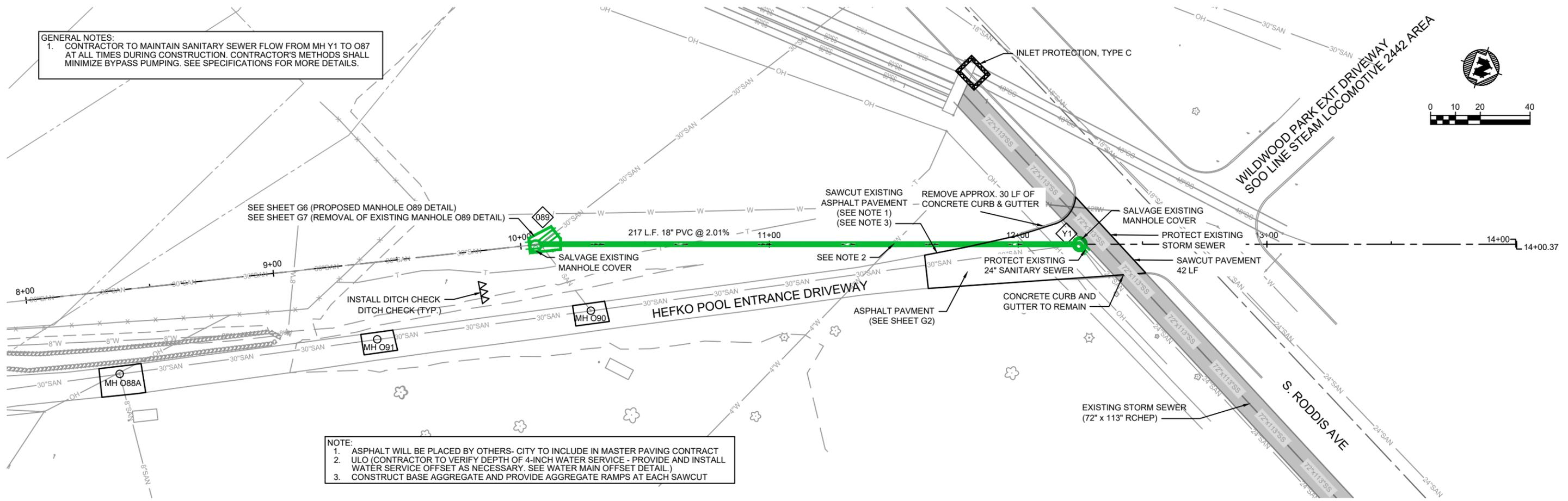
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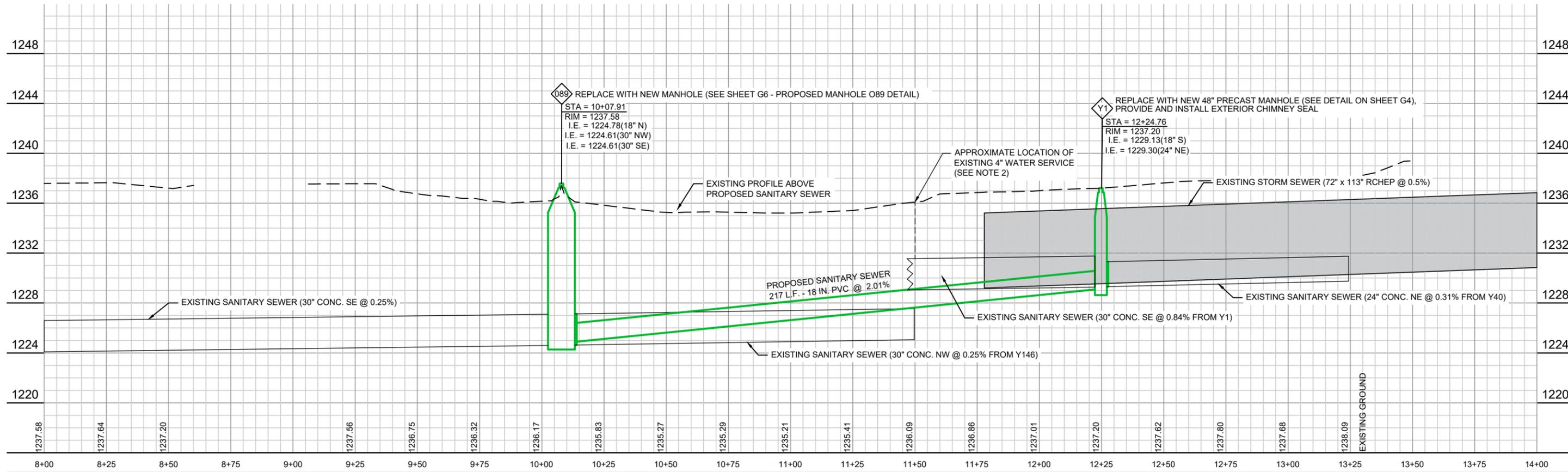
REMOVAL OF EXISTING MANHOLE O89 DETAIL

PROJECT NO.
584124
SHEET
G 7

GENERAL NOTES:
 1. CONTRACTOR TO MAINTAIN SANITARY SEWER FLOW FROM MH Y1 TO O87 AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR'S METHODS SHALL MINIMIZE BYPASS PUMPING. SEE SPECIFICATIONS FOR MORE DETAILS.



NOTE:
 1. ASPHALT WILL BE PLACED BY OTHERS- CITY TO INCLUDE IN MASTER PAVING CONTRACT ULO (CONTRACTOR TO VERIFY DEPTH OF 4-INCH WATER SERVICE - PROVIDE AND INSTALL WATER SERVICE OFFSET AS NECESSARY. SEE WATER MAIN OFFSET DETAIL.)
 2. CONSTRUCT BASE AGGREGATE AND PROVIDE AGGREGATE RAMPS AT EACH SAWCUT



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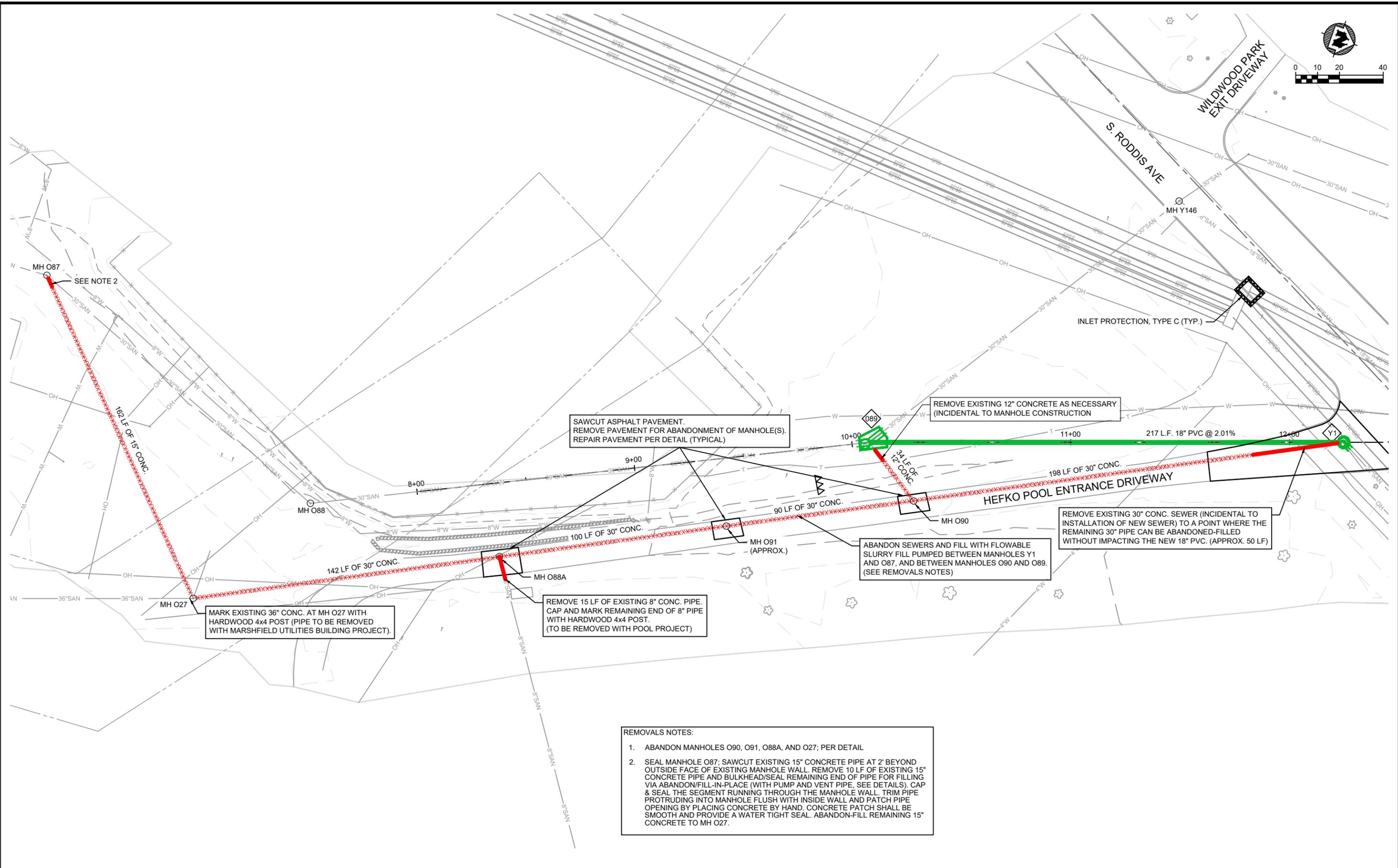
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SANITARY SEWER INTERCEPTOR PLAN & PROFILE

PROJECT NO:
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PLOT DATE: Wednesday, July 8, 2020 1:40:17 PM, G:\00\00584\00584124\CADD\C3D\584124 Design.dwg



SAWCUT ASPHALT PAVEMENT.
REMOVE PAVEMENT FOR ABANDONMENT OF MANHOLE(S).
REPAIR PAVEMENT PER DETAIL (TYPICAL)

REMOVE EXISTING 12" CONCRETE AS NECESSARY
(INCIDENTAL TO MANHOLE CONSTRUCTION)

REMOVE EXISTING 30" CONC. SEWER (INCIDENTAL TO
INSTALLATION OF NEW SEWER) TO A POINT WHERE THE
REMAINING 30" PIPE CAN BE ABANDONED-FILLED
WITHOUT IMPACTING THE NEW 18" PVC. (APPROX. 50 LF)

ABANDON SEWERS AND FILL WITH FLOWABLE
SLURRY FILL PUMPED BETWEEN MANHOLES Y1
AND O87, AND BETWEEN MANHOLES O90 AND O89.
(SEE REMOVALS NOTES)

REMOVE 15 LF OF EXISTING 8" CONC. PIPE.
CAP AND MARK REMAINING END OF 8" PIPE
WITH HARDWOOD 4x4 POST.
(TO BE REMOVED WITH POOL PROJECT)

MARK EXISTING 36" CONC. AT MH O27 WITH
HARDWOOD 4x4 POST (PIPE TO BE REMOVED
WITH MARSHFIELD UTILITIES BUILDING PROJECT).

- REMOVALS NOTES:
1. ABANDON MANHOLES O90, O91, O88A, AND O27; PER DETAIL
 2. SEAL MANHOLE O87: SAWCUT EXISTING 15" CONCRETE PIPE AT 2' BEYOND OUTSIDE FACE OF EXISTING MANHOLE WALL. REMOVE 10 LF OF EXISTING 15" CONCRETE PIPE AND BULKHEAD/SEAL REMAINING END OF PIPE FOR FILLING VIA ABANDON/FILL-IN-PLACE (WITH PUMP AND VENT PIPE. SEE DETAILS). CAP & SEAL THE SEGMENT RUNNING THROUGH THE MANHOLE WALL. TRIM PIPE PROTRUDING INTO MANHOLE FLUSH WITH INSIDE WALL AND PATCH PIPE OPENING BY PLACING CONCRETE BY HAND. CONCRETE PATCH SHALL BE SMOOTH AND PROVIDE A WATER TIGHT SEAL. ABANDON-FILL REMAINING 15" CONCRETE TO MH O27.

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EXISTING SANITARY SEWER INTERCEPTOR REMOVALS
AND ABANDON-FILL

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584124
SHEET
PP 2