



April 18, 2023

Village of Middleville
Craig Stolsonburg
Village Manager
100 East Main Street
Middleville, MI 49333

CONTRACT: 2023 THIRD STREET RECONSTRUCTION PROJECT & TK ACCESS ROAD PROJECT

ADDENDUM No. 1

Notice to All Prospective Bidders:

This Addendum is issued in accordance with SECTION 00 20 00 - INSTRUCTIONS TO BIDDERS, and is hereby incorporated into the Contract Documents. The CONTRACTOR is reminded to appropriately-acknowledge receipt of this Addendum in SECTION 00 42 00 - PROPOSAL. *This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 25, 2022. This Addendum No. 1 consists of two (2) typed pages. The issue of the Specification Sections, and the issue of Drawings are listed at the end of this document and are attached to this document.*

Modifications to Specifications:

1. Section 00 41 00 Bid Form: Reissued with updated estimated quantity for Phase 2 TK Access Road. Bidders are instructed to submit their Bid on this revised Bid Form.
2. Section 01 20 00 Measurement and Payment: Re-issued
 - 1.06.A.: Add the following;
 66. **New Type B Casting:** Measured and paid for the each
 67. **Dr Structure Cover, Adj, Case 1:** Paid for each structure adjusted to match proposed grade.
 68. **10" Storm, PVC:** Measured horizontally on the surface along the pipe centerline from center to center of manholes and paid for the linear foot by the pipe size including: excavation, bedding, backfill, compaction, and all related work.

Modifications to Drawings:

1. C0.01- C6.01: (Issued) Thornapple Kellogg McFall to Thrit Street Connector Plans

Please contact the project manager with any questions or comments on this addendum.

Village of Middleville Third Street Reconstruction Project & TK Access Road
Addendum No. 1
April 18, 2023
Page 2 of 2

Respectfully submitted,

Williams & Works

Katie Mendez E.I.T.
Project Manager

Enclosures: Section 00 41 00 – Bid Form
Section 01 20 00– Measurement and Payment
Drawing Sheets C0.01 – C6.01

Cc: All Plan Holders
Craig Stolsonburg, Village of Middleville
Alec Belson, Village of Middleville
File

VILLAGE OF MIDDLEVILLE
2023 THIRD ST. RECONSTRUCTION PROJECT AND TK ACCESS ROAD PROJECTARTICLE 1-SCHEDULE OF PRICES

For the entire Work outlined in these Contract Documents complete as specified, using equipment and materials only of the type and manufacturers where specifically named, the following unit and lump sum prices:

Phase 1: Third Street Reconstruction

| <u>Item</u> | <u>Description</u> | <u>Unit</u> | <u>Est Quant</u> | <u>Unit Price</u> | <u>Amount</u> |
|-------------|--|-------------|----------------------|-------------------|---------------|
| 1 | Mobilization, Max 5% | LSUM | 1 | \$ _____ | \$ _____ |
| 2 | Traf Regulator Control | LSUM | 1 | \$ _____ | \$ _____ |
| 3 | Minor Traffic Devices | LSUM | 1 | \$ _____ | \$ _____ |
| 4 | Temporary Gang Mailbox | LSUM | 1 | \$ _____ | \$ _____ |
| 5 | Post, Mailbox | Ea | 9 | \$ _____ | \$ _____ |
| 6 | Tree, Rem, 19 inch to 36 inch | Ea | 2 | \$ _____ | \$ _____ |
| 7 | Tree, Rem, 6 inch to 18 inch | Ea | 8 | \$ _____ | \$ _____ |
| 8 | Tree, Rem, 37 inch or Larger | Ea | 1 | \$ _____ | \$ _____ |
| 9 | Driveway, Concrete Pavement, Rem | Syd | 598 | \$ _____ | \$ _____ |
| 10 | Pavement, Rem | Syd | 2465 | \$ _____ | \$ _____ |
| 11 | Dr Structure, Storm, 48 inch Dia | Ea | 4 | \$ _____ | \$ _____ |
| 12 | Dr Structure, Catch Basin, 48 inch Dia | Ea | 3 | \$ _____ | \$ _____ |
| 13 | Core and Boot, 12 inch Storm Sewer into Catch Basin or Manhole | Ea | 2 | \$ _____ | \$ _____ |
| 14 | Storm Sewer, C76 CL IV, 12 inch | Ft | 738 | \$ _____ | \$ _____ |
| 15 | Abandon and Fill Underground Utilities | Ft | 670 | \$ _____ | \$ _____ |
| 16 | Water Corporation Stop | Ea | 11 | \$ _____ | \$ _____ |
| 17 | Water Service, 1 inch Copper | Ft | 355 | \$ _____ | \$ _____ |
| 18 | Water Service, 2 inch Copper | Ft | 26 | \$ _____ | \$ _____ |
| 19 | Connect to Existing Water Main | Ea | 2 | \$ _____ | \$ _____ |
| 20 | Sleeve, 8 inch | Ea | 2 | \$ _____ | \$ _____ |
| 21 | Tee, 8 inch x 8 inch x 8 inch | Ea | 2 | \$ _____ | \$ _____ |
| 22 | Curb Stop and Box on Water Service, 1 inch | Ea | 11 | \$ _____ | \$ _____ |
| 23 | 6" Hydrant Assembly | Ea | 1 | \$ _____ | \$ _____ |
| 24 | Reconnect Existing 1 inch Water Service | Ea | 10 | \$ _____ | \$ _____ |
| 25 | Reconnect Existing 2 inch Water Service | Ea | 1 | \$ _____ | \$ _____ |
| 26 | Valve and Box, 8 inch | Ea | 4 | \$ _____ | \$ _____ |
| 27 | Bend, 45 degree, 8 inch | Ea | 4 | \$ _____ | \$ _____ |
| 28 | Water Main, 8 inch | Ft | 735 | \$ _____ | \$ _____ |
| 29 | Hydrant, Rem | Ea | 1 | \$ _____ | \$ _____ |
| 30 | Sanitary Sewer Structure, Rem | Ea | 2 | \$ _____ | \$ _____ |
| 31 | Sanitary Wye, 8 inch x 6 inch | Ea | 11 | \$ _____ | \$ _____ |
| 32 | Sanitary Sewer, 8 inch | Ft | 720 | \$ _____ | \$ _____ |
| 33 | Sanitary Sewer, Rem | Ft | 720 | \$ _____ | \$ _____ |

SECTION 00 41 00

00 41 00.2 – ADDENDUM No.1
BID FORM

| <u>Item</u> | <u>Description</u> | <u>Unit</u> | <u>Est Quant</u> | <u>Unit Price</u> | <u>Amount</u> |
|--------------------------------------|---|-------------|----------------------|-------------------|---------------|
| 34 | Connect to Existing Sanitary Sewer | Ea | 1 | \$ _____ | \$ _____ |
| 35 | Reconnect Existing Lateral | Ea | 11 | \$ _____ | \$ _____ |
| 36 | Maintaining Sanitary Sewer Service | LSUM | 1 | \$ _____ | \$ _____ |
| 37 | Sanitary Manhole, 48 inch | Ea | 2 | \$ _____ | \$ _____ |
| 38 | Sanitary Sewer Lateral, 6 inch | Ft | 380 | \$ _____ | \$ _____ |
| 39 | Aggregate Base, 8 inch, 21AA | Syd | 3100 | \$ _____ | \$ _____ |
| 40 | Curb and Gutter, Conc, Det F4 | Ft | 1950 | \$ _____ | \$ _____ |
| 41 | Curb and Gutter, Rem | Ft | 217 | \$ _____ | \$ _____ |
| 42 | Curb Ramp, Conc, 6 inch | Sft | 200 | \$ _____ | \$ _____ |
| 43 | Detectable Warning Surface | Ft | 20 | \$ _____ | \$ _____ |
| 44 | Driveway, Nonreinf Conc, 6 inch | Syd | 300 | \$ _____ | \$ _____ |
| 45 | Erosion Control, Silt Fence | Ft | 450 | \$ _____ | \$ _____ |
| 46 | HMA, 3EML | Ton | 370 | \$ _____ | \$ _____ |
| 47 | HMA, 5EML | Ton | 275 | \$ _____ | \$ _____ |
| 48 | Sidewalk, Nonreinf Conc, 4 inch | Sft | 3550 | \$ _____ | \$ _____ |
| 49 | Subbase, CIP | Cyd | 1005 | \$ _____ | \$ _____ |
| 50 | Machine Grading | Sta | 10 | \$ _____ | \$ _____ |
| 51 | Slope Restoration | Syd | 300 | \$ _____ | \$ _____ |
| 52 | Sign | Sft | 21 | \$ _____ | \$ _____ |
| 53 | Sign, Rem | Ea | 7 | \$ _____ | \$ _____ |
| 54 | Lead/Galvanized Water Service Replacement, 1" Copper | Ft | 420 | \$ _____ | \$ _____ |
| <u>Phase 2 TK Access Road</u> | | | | | |
| 55 | Tree, Rem, 6 inch to 18 inch | Ea | 6 | \$ _____ | \$ _____ |
| 56 | Driveway, Concrete Pavement, Rem | Syd | 245 | \$ _____ | \$ _____ |
| 57 | Aggregate Base, 8 inch | Syd | 950 | \$ _____ | \$ _____ |
| 58 | Erosion Control, Silt Fence | Ft | 444 | \$ _____ | \$ _____ |
| 59 | HMA, 3EML | Ton | 110 | \$ _____ | \$ _____ |
| 60 | HMA, 5EML | Ton | 82 | \$ _____ | \$ _____ |
| 61 | Subbase, CIP | Cyd | 344 | \$ _____ | \$ _____ |
| 62 | Machine Grading | Sta | 4 | \$ _____ | \$ _____ |
| 63 | Slope Restoration | Syd | 120 | \$ _____ | \$ _____ |
| 64 | Pavement, Rem | Syd | 141 | \$ _____ | \$ _____ |
| 65 | Core and Boot, 10 inch Storm Sewer into Catch Basin | Ea | 1 | \$ _____ | \$ _____ |
| 66 | New Type B Casting | Ea | 1 | \$ _____ | \$ _____ |
| 67 | Dr Structure Cover, Adj, Case 1 | Ea | 1 | \$ _____ | \$ _____ |
| 68 | 10" Storm, PVC | Ft | 25 | \$ _____ | \$ _____ |
| 69 | Dr Structure, Storm, 24 inch Dia | Ea | 1 | \$ _____ | \$ _____ |
| Total | | | | | \$ _____ |

ARTICLE 2-MATERIAL AND EQUIPMENT ALTERNATES

The Contract Documents stipulate that the Base Bid price shall include materials and equipment selected from the designated items and manufacturers listed therein. This is done to establish uniformity in bidding and to establish standards of quality for the items named.

If the BIDDER wishes to quote alternate items for consideration by the OWNER, he may do so under this Article. A complete description of the item and the proposed price differential are to be provided. Unless approved at the time of award, substitutions, where items are specifically named, will be considered only in accordance with the terms set forth in the General Conditions.

| <u>Item No.</u> | <u>Description</u> | <u>Add/Deduct Amount (Dollars)</u> |
|-----------------|--------------------|--|
|-----------------|--------------------|--|

ARTICLE 3-TIME ALTERNATE

If the BIDDER takes exception to the time(s) stipulated in Article 3 - Contract Time of the Agreement, he is requested to stipulate below his proposed time for performance of the Work. Consideration will be given to time in evaluating bids.

ARTICLE 4-SUBCONTRACTOR LISTING

Bid is submitted on the basis of the use of the following Subcontractors:

| <u>WORK ITEM</u> | <u>FIRM</u> | <u>CITY</u> |
|------------------|-------------|-------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Please note if work is to be performed by BIDDER. Failure to list Subcontractors with the Bid waives BIDDER'S rights to a change in Contract Time or Price or withdrawal of Bid and Bid Security; in the event OWNER has reasonable objection to any Subcontractor.

OWNER shall have the right to reject any Subcontractor for reasonable cause. If Subcontractors are not identified in the Bid, the BIDDER/CONTRACTOR shall engage a Subcontractor acceptable to OWNER and waives the right to withdraw Bid and Bid Security, and further, waives right to a change in Contract Time or Price due to failure to list.

PART 1 - GENERAL

1.01 SECTION INCLUDES:

- A. Measurement and payment criteria applicable to the Work.

1.02 AUTHORITY:

- A. Measurement methods delineated in the individual specification sections are intended to complement the criteria of this section.
- B. The ENGINEER will take all measurements and compute quantities accordingly.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.

1.03 UNIT QUANTITIES SPECIFIED:

- A. Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the ENGINEER shall determine payment.
- B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.

1.04 MEASUREMENT OF QUANTITIES:

- A. Measurement Devices:
 - 1. Weigh Scales: Inspected, tested and certified.
 - 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
 - 3. Metering Devices: Inspected, tested and certified.
- B. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook weights.
- C. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- D. Measurement by Area: Measured by square dimension using mean length and width or radius.
- E. Linear Measurement: Measured by linear dimension, at the item centerline.

1.05 PAYMENT:

- A. Payment Includes: Full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the ENGINEER multiplied by the unit price for Work which is incorporated in or made necessary by the Work.

1.06 MEASUREMENT AND PAYMENT SCHEDULE:

- A. The following schedule outlines the method of measurement and basis of payment to be used on this project. Requirements for materials and methods described under each unit price are included in the specification sections.
 - 1. **Mobilization, Max 5%:** Paid as a lump sum. Payment will be based on the following payment schedule: 50% of bid amount for 5% of original contract amount completed; 75% of bid amount for 10% of original contract amount completed; 100% of bid amount for 25% of original contract amount completed.

2. **Traffic Regulator Control:** Paid as a lump sum. Payment will be based on the following payment schedule: 50% of bid amount for 5% of original contract amount completed; 75% of bid amount for 50% of original contract amount completed; 90% of bid amount for 90% of original contract amount completed; 100% of bid amount for 100% of original contract amount completed.
3. **Minor Traffic Devices:** Will be measured and paid as a lump sum and includes all necessary signing, flagging, traffic regulators, drums, and barricades to safely maintain traffic and protect the work site during the duration of the project per the requirements provided in the plans and specifications.
4. **Temporary Gang Mailbox:** Removing the mailbox from the old support and attaching it firmly to the new temporary support; disposing of the old support, at the property owner's option; removing, storing, and providing the property owner existing newspaper boxes and supports. Also includes removal of the temporary gang mailboxes at the completion of construction activities.
5. **Post, Mailbox:** Measured and paid for each including: removing the existing mailbox support during construction and placing a new post at the permanent location after construction activities are complete.
6. **Tree, Rem, 19 inch to 36 inch:** Will be measured and paid for each tree removed. Removing trees less than 6 inch in diameter will not be paid for separately, but will be considered included in other contract items. Where more than one tree has grown from a common stump, each tree will not be measured separately. Tree removal pay items include providing and placing approved backfill.
- 7.,55. **Tree, Rem, 6 inch to 18 inch:** Will be measured and paid for each tree removed. Removing trees less than 6 inch in diameter will not be paid for separately, but will be considered included in other contract items. Where more than one tree has grown from a common stump, each tree will not be measured separately. Tree removal pay items include providing and placing approved backfill.
8. **Tree, Rem, 37 inch or Larger:** Will be measured and paid for each tree removed. Removing trees less than 6 inch in diameter will not be paid for separately, but will be considered included in other contract items. Where more than one tree has grown from a common stump, each tree will not be measured separately. Tree removal pay items include providing and placing approved backfill.
- 9.,56. **Driveway, Concrete Pavement, Rem:** Measured and paid for by the square yard, regardless of depth. All removals shall be to a saw cut edge.
- 10.,64. **Pavement, Rem:** Measured and paid for by the square yard, regardless of depth. Payment includes all improved street surfaces, driveways and sidewalks, regardless of material, where improved surfaces are called for removal. Gravel surfaces are excluded. All removals shall be to a saw cut edge.
- 11.,69. **Dr. Structure, Storm, ___ inch dia:** Measured and paid for each including: excavation, backfill, concrete footing, and temporary and final grade adjustments.
12. **Dr Structure, Catch Basin, 48 inch Dia:** Counted and paid for by the unit as shown in the Bid Form in the Bid Form and includes furnishing and installing the structure, grade rings, casting, covers and all other accessories as specified and detailed. Furnishing, adjusting and finishing of castings on new storm manholes, is considered included in the cost of the storm manhole, and shall not be paid for separately.
- 13.,65. **Core and Boot, ___ inch Storm Sewer into Catch Basin or Manhole:** Counted and paid for by the unit, including coring or existing structure and related work.
14. **Storm Sewer, ___" CL ___:** Measured horizontally on the surface along the pipe centerline from center to center of manholes and paid for the linear foot by the pipe size including: excavation, bedding, backfill, compaction, and all related work.
15. **Abandon and Fill Underground Utilities:** Measured and paid for by the length of original utility. Includes the cost of cutting the existing water main, providing and placing the required plug.
16. **Water Corporation Stop:** Measured and paid for by each corporation stop provided for each water service.
17. **Water Service, 1 inch Copper:** Measured along the pipe centerline at the surface and paid for by the linear foot installed or replaced of the size and material specified, from the corporation to the ROW. Includes pipe, fittings, connections to the corporation stop, curb stop and existing water service, excavation, backfilling, compaction, and restoration to existing grade. Includes abandonment/removal of existing service to ROW line from abandoned watermain.

18. **Water Service, 2 inch Copper:** Measured along the pipe centerline at the surface and paid for by the linear foot installed or replaced of the size and material specified, from the corporation to the ROW. Includes pipe, fittings, connections to the corporation stop, curb stop and existing water service, excavation, backfilling, compaction, and restoration to existing grade. Includes abandonment/removal of existing service to ROW line from abandoned watermain.
19. **Connect to Existing Water Main:** Counted and paid for each connection made to an existing watermain. Includes all fittings, materials, equipment, and labor needed to complete the work. Excludes valves and boxes, which are paid separately.
20. **Sleeve, 8 inch:** Paid for each provided and installed, including restrained fittings, gaskets, bolts and nuts.
21. **Tee, 8 inch x 8 inch x 8 inch:** Paid for each provided and installed, including restrained fittings, gaskets, bolts and nuts.
22. **Curb Stop and Box on Water Service, 1 inch:** Measured and paid for by the unit for each valve and valve box of the size specified installed, backfilled, tested, and accepted.
23. **6" Hydrant Assembly:** Includes the cost of providing and installing the hydrant, hydrant valve, valve box, and all pieces between the water main and hydrant, including the tee, coarse gravel and concrete base, fire hydrant marker at the locations shown on the plans in a ready-for-use condition unless noted otherwise.
24. **Reconnect Existing 1 inch Water Service:** shall be measured in units as shown on the Bid Form and includes furnishing all labor and materials necessary to connect an existing copper water service at the right-of-way line.
25. **Reconnect Existing 2 inch Water Service:** shall be measured in units as shown on the Bid Form and includes furnishing all labor and materials necessary to connect an existing copper water service at the right-of-way line.
26. **Valve and Box, 8 inch:** Paid for each provided and installed, including restrained fittings, gaskets, bolts and nuts, and any adjustment needed..
27. **Bend, 45 degree, 8 inch:** Paid for each provided and installed, including restrained fittings, gaskets, bolts and nuts.
28. **Water Main, 8 inch:** Measured and paid for by the linear foot of watermain placed from center of fitting to center of fitting. Includes laying pipe of the specified material and class at the grade shown on the plans, backfilling, compaction, and restoration to existing grade as shown on the plans.
29. **Hydrant Rem:** Shall be measured and paid for by the unit including removal of the hydrant, hydrant valve, gate box and hydrant lead pipe, plugging the existing water main and backfill of the resulting void. Payment includes delivery to the Owner's yard at 607 Sheridan St, Middleville, MI 49333. This item will not be paid if the hydrant is damaged during its removal.
30. **Sanitary Sewer Structure, Rem:** Measured and paid for by each structure removed from the structures original position. The price include the cost of maintaining and reconnecting live sewers, where required, and of removing attached parts and connections, breaking down structures and material; sawing, removal, and disposal; providing, placing, and compacting backfill and providing and placing replacement soil or base material.
31. **Sanitary Wye, 8 inch x 6 inch:** Measured and paid for by each wye placed. Place each wye as shown on plans.
32. **Sanitary Sewer, 8 inch:** Will be measured horizontally in place by length in feet from the center to center of manholes or to the inside walls of all special structures. Payment for this work shall include excavation, disposal of waste materials, trenching, coffer dams, dewatering, by-pass pumping, placing and removing temporary sheeting and bracing, support and protection of existing utilities, proving and placing the necessary sewer pipe, encasement and all joint materials, connecting to new or existing manholes, and shall be sealed with non-shrink grout both inside and outside the structure, bedding and initial backfill materials to one (1) foot above the pipe, backfilling with approved on-site material, compaction and disposal of surplus earth removed.
33. **Sanitary Sewer, Rem:** Includes all necessary excavation, cutting of existing sewer, and removal. Payment will be at the contract unit price per linear foot and will include all labor, tools, equipment, material, excavation, and backfill required to remove the existing sanitary sewer or plugs and flowable fill for the main being taken out of service if main can remain in place as approved by the Engineer. Payment will include the placement of masonry plug at the removal limits as directed by the Engineer. Removals necessary for the construction of the sanitary sewer systems and not specifically called out on the plans will be considered incidental to construction.

34. **Connect to Existing Sanitary Sewer:** Shall be counted and paid for by the unit including coring of existing manhole, installation of any temporary plugs, special fittings, adapter fittings, and pipe required for the connection.
35. **Reconnect Existing Lateral:** Measured and paid for by each lateral reconnected at the ROW line, including Furnco sleeve connector.
36. **Maintaining Sanitary Sewer Service:** Shall be payment in full for furnishing all labor, equipment, and material and all other work required for a complete job. Payment for any by-pass pumping, or any other work necessary to maintain sanitary or combined sewage flows shall be included in the Maintain Sanitary Sewer Service item. Payment for any by-pass pumping, or any other work necessary to maintain storm sewers flows is included in the proposed items being placed. All costs, damages, and fines resulting from any failure to maintain sanitary, combined and storm flows shall be paid by the Contractor at no cost to the Village. The Village will pay the Contractor for Maintain Sanitary Sewer Service in accordance with payment schedule for Mobilization.
37. **Sanitary Manhole, 48 inch:** Will be measured and paid for as specified for Drainage Structure pay items in subsection 403.04 of the MDOT Standard Specifications for Construction. All necessary cut-ins (coring) into new manholes and flexible connection shall be included in the manhole items. Connections to existing manholes shall be included in the cost of the sanitary sewer item and shall be sealed with non-shrink grout both inside and outside the structure. The item Sanitary Manhole, 48 inch, shall include the cost of furnishing and placing the casting and cover necessary, as well as adjusting the casting to final grade. Payment for sanitary manhole items includes cleaning of the interior of the structure in the item. Payment for all material, labor, and equipment necessary to remedy an unsatisfactory test, including removing and replacing any backfill, will be considered as included in the contract unit price for Sanitary Manhole, 48 inch pay item.
38. **Sanitary Sewer Lateral, 6 inch :** Measured along the pipe centerline at the surface and paid for by the linear foot for each lateral installed or replaced of the size and material specified, from the wye to the ROW. Includes removal of existing lateral pipe and fittings, fittings, connection to the wye, excavation, backfilling, compaction, and restoration to existing grade.
- 39.,57. **Aggregate Base, 8 inch, 21AA:** Measured and paid for by the square yard for the thickness and MDOT specified material, compacted in place, tested and accepted.
40. **Curb and Gutter, Conc, Det F4:** Will be measured in place by length in linear feet, along the joint of the curbing with the pavement, with not deductions in length for catch basins, inlet castings, or dub-down drive approaches.
41. **Curb and Gutter, Rem:** Will be measured by the linear foot along the base of the curb face or along the flowline of the gutter where marked by the Engineer, regardless of vertical size. Includes saw cutting.
42. **Curb Ramp, Conc. 6 inch:** Measured and paid for by the square foot including: shaping and compacting base; placing form work; placing and finishing concrete; placing expansion joints; placing detectable pads, providing and placing curing compound.
43. **Detectable Warning Surface:** Measured and paid for by the linear foot. All materials shall be on the MDOT approved manufacturers list.
44. **Driveway, Nonreinf Conc, 6 inch:** Measured and paid for by the square foot for the depth specified for concrete drives poured in place according to the specifications, plan details and notes. Includes all form work, materials, labor, and equipment to perform the work.
- 45.,58. **Erosion Control, Silt Fence:** Paid as a lump sum. Erosion control measures are to be implemented where specified on plans.
- 46.,59. **HMA, 3EML:** Paid for by the ton for the mix specified, compacted and accepted. Measured by tallying load tickets. Submit all load tickets to ENGINEER at time of delivery. Estimated quantities based on 110#/yd²/inch.
- 47.,60. **HMA, 5EML:** Paid for by the ton for the mix specified, compacted and accepted. Measured by tallying load tickets. Submit all load tickets to ENGINEER at time of delivery. Estimated quantities based on 110#/yd²/inch.
48. **Sidewalk, Nonreinf Conc, 4 inch:** measured in place by the area placed and paid for the square foot including: shaping and compacting base; placing form work; placing and finishing concrete; placing expansion joints; providing and placing curing compound.
- 49.,61. **Subbase, CIP:** Calculated from the proposed street section and paid for by the cubic yard compacted in place where used and authorized by the ENGINEER. Where existing soils are adequate for subbase (determination by Engineer), payment for subbase will not be made.

- 50.,62. **Machine Grading:** Measured along street centerline and paid for by the 100 foot station. This item shall include rough grading, shaping, fine grading, removal of culverts, earth excavation, embankment, and all earthwork necessary to construct the proposed street section from right-of-way line to right-of-way line. Includes any necessary clearing and grubbing including removal and disposal of all brush and vegetation less than 6" in diameter regardless of species.
- 51.,63. **Slope Restoration:** Measured by the area placed and paid for the square yard including: labor, equipment, and materials to place topsoil surface; fertilizer, chemical nutrient, Class A; seeding mixture; and mulch Blanket which will not be paid for separately but is included in the unit price.
52. **Signs:** Measured by sft. This includes the proper insallation, time, materials, and adequate posts.
53. **Sign, Rem:** Measured by each. This includeds labor, tools, and equipment.
54. **Lead Galvanized Water Service Replacement:** Measured and paid per the foot from the curb stop to the inside of the home for each lead/galvanized water service uncovered during the work. The number of lead/galvanized services is unknown. There could be two, seven, or any number in between.
66. **New Type B Casting:** Measured and paid for the each
67. **Dr Structure Cover, Adj, Case 1:** Paid for each structure adjusted to match proposed grade.
68. **10" Storm, PVC:** Measured horizontally on the surface along the pipe centerline from center to center of manholes and paid for the linear foot by the pipe size including: excavation, bedding, backfill, compaction, and all related work.

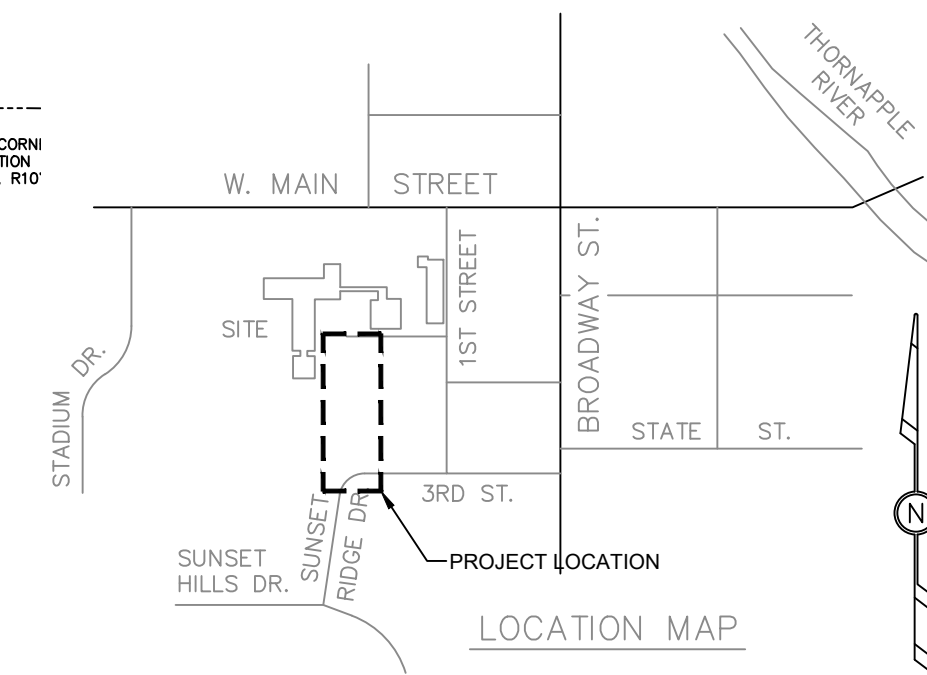
PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

LOCATION MAP



ORIGINAL SURVEY PRODUCED BY:



LEGEND

- = IRON STAKE FOUND
- = IRON STAKE SET
- ⦿ = MONUMENT
- ⊕ = UTILITY POLE & GUY WIRE
- ⊙ = LIGHT POLE
- ⊙ = SIGN
- ⊙ = HANDHOLE
- ⊙ = HYDRANT
- ⊙ = WATERMAIN VALVE
- ⊙ = ROOF DRAIN ON BLDG.
- ⊙ = CATCH BASIN
- ⊙ = MANHOLE
- ⊙ = CLEAN OUT
- ⊙ = MAILBOX
- ⊙ = TELEPHONE BOX
- = FENCE LINE
- = OVERHEAD WIRES

Property Description (from Commitment No.: PC134003):
Land situated in the Village of Middleville, Barry County, Michigan:

Part of the Northeast 1/4 of Section 27, Town 4 North, Range 10 West described as follows: Commencing at a point 462 feet East and 479.5 feet South of the North 1/4 post for the point of beginning; thence East 99 feet; thence North 426 feet; thence East to a point 1335.84 feet West of the Northeast 1/4 post; thence South 165 feet; thence West 33 feet; thence South 330 feet to the Northeast corner of Lot 6, Block 56, A.D. Badcock's Addition to the Village of Middleville; thence South to the Northeast corner of Lot 6, Block 67, A.D. Badcock's Addition; thence West to the Northwest corner of Lot 10, Block 67, A.D. Badcock's Addition; thence South to the Southwest corner of Block 67, A.D. Badcock's Addition; thence West to Southeast corner of Block 68; thence South to the Southeast corner of Lot 5, Block 71; thence South 0 degrees 18 minutes West 131.82 feet; thence South 89 degrees 42 minutes 06 seconds East 33 feet; thence South 0 degrees 18 minutes West 34.98 feet; thence North 89 degrees 52 minutes 06 seconds West 4.68 feet; thence North 0 degrees 18 minutes East 1.99 feet; thence North 89 degrees 42 minutes 06 seconds West 784.68 feet; thence Northerly along the East side of the plat, 722.99 feet; thence Northeasterly 121.66 feet along the East Right of Way line of Stadium Drive; thence East 220.97 feet; thence North 16.50 feet to the Point of Beginning, EXCEPT commencing at the Northeast corner of Lot 30 Misty Ridge No. 2, thence North 08 degrees 03 minutes 28 seconds East 43.07 feet; thence North 08 degrees 51 minutes 51 seconds East 216.81 feet; thence South 0 degrees 18 minutes West 224.07 feet; thence South 89 degrees 42 minutes 08 seconds East 33 feet; thence South 0 degrees 18 minutes West 34.98 feet; thence North 0 degrees 52 minutes 06 seconds West 4.68 feet; thence North 0 degrees 18 minutes East 1.99 feet; thence North 89 degrees 42 minutes 06 seconds West 66.43 feet to the Point of Beginning.

Tax Identification Number: 08-41-145-006-00

Notes regarding Schedule B - Section II Exceptions (see Note 1 for title commitment information):
(Numbers correspond to specific exceptions listed)

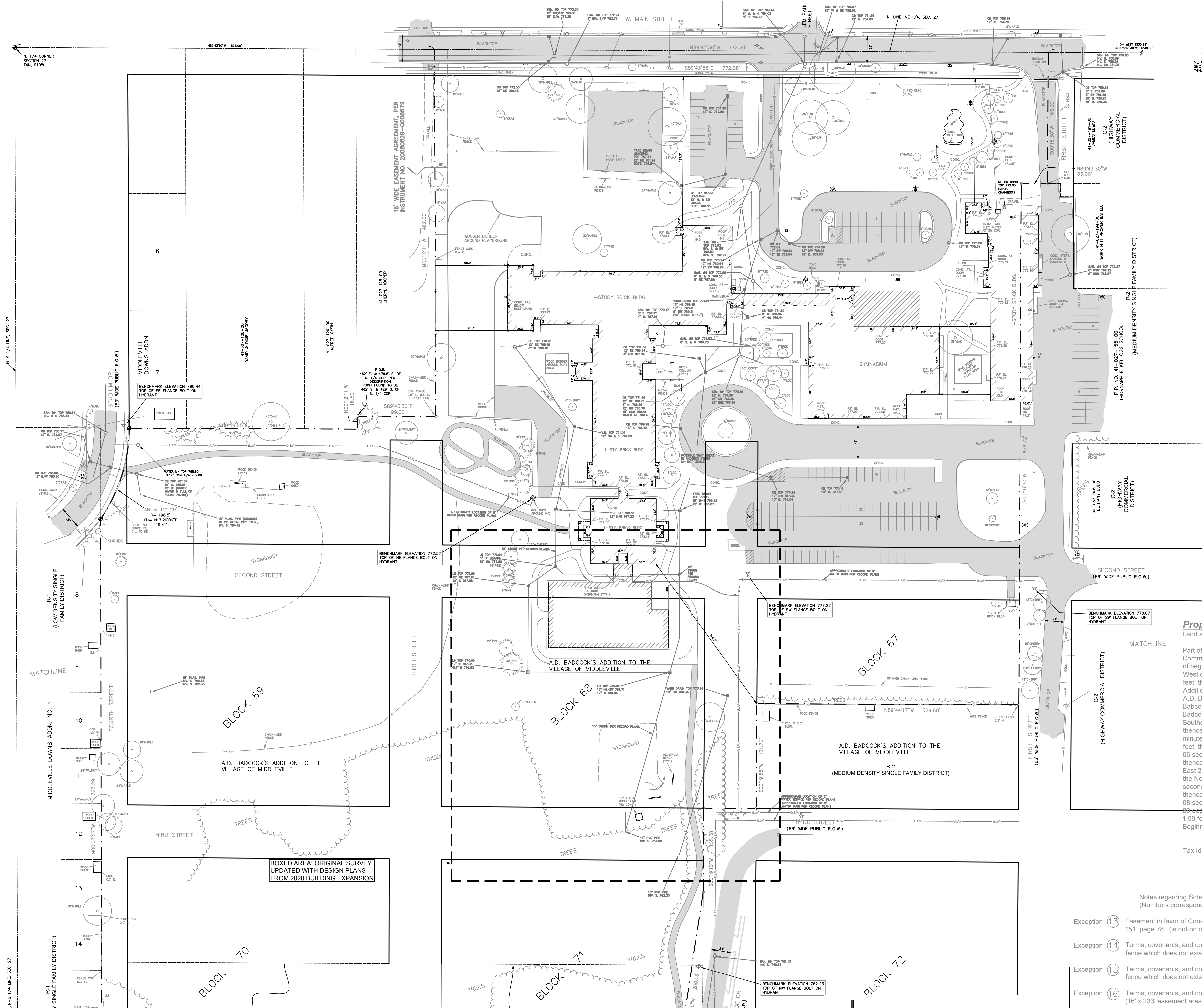
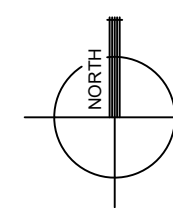
- Exception (13) Easement in favor of Consumers Power Company (now known as Consumers Energy), as recorded in Liber 151, page 78. (Is not on or does not touch the surveyed property)
- Exception (14) Terms, covenants, and conditions of Warranty Deed, as recorded in Liber 228, page 350. (for maintenance of a fence which does not exist anymore, school currently maintains the property on both sides of this former fence)
- Exception (15) Terms, covenants, and conditions of Warranty Deed, as recorded in Liber 228, page 351. (for maintenance of a fence which does not exist anymore, school currently maintains the property on both sides of this former fence)
- Exception (16) Terms, covenants, and conditions of Easement Agreement, as recorded in Instrument No. 20080829-0008679. (16' x 233' easement area shown hereon)

EXISTING SITE SURVEY

1" = 60'

SCALE IN FEET

0 60' 120'



ISSUANCES

04.14.2023 BIDS & CONSTRUCTION

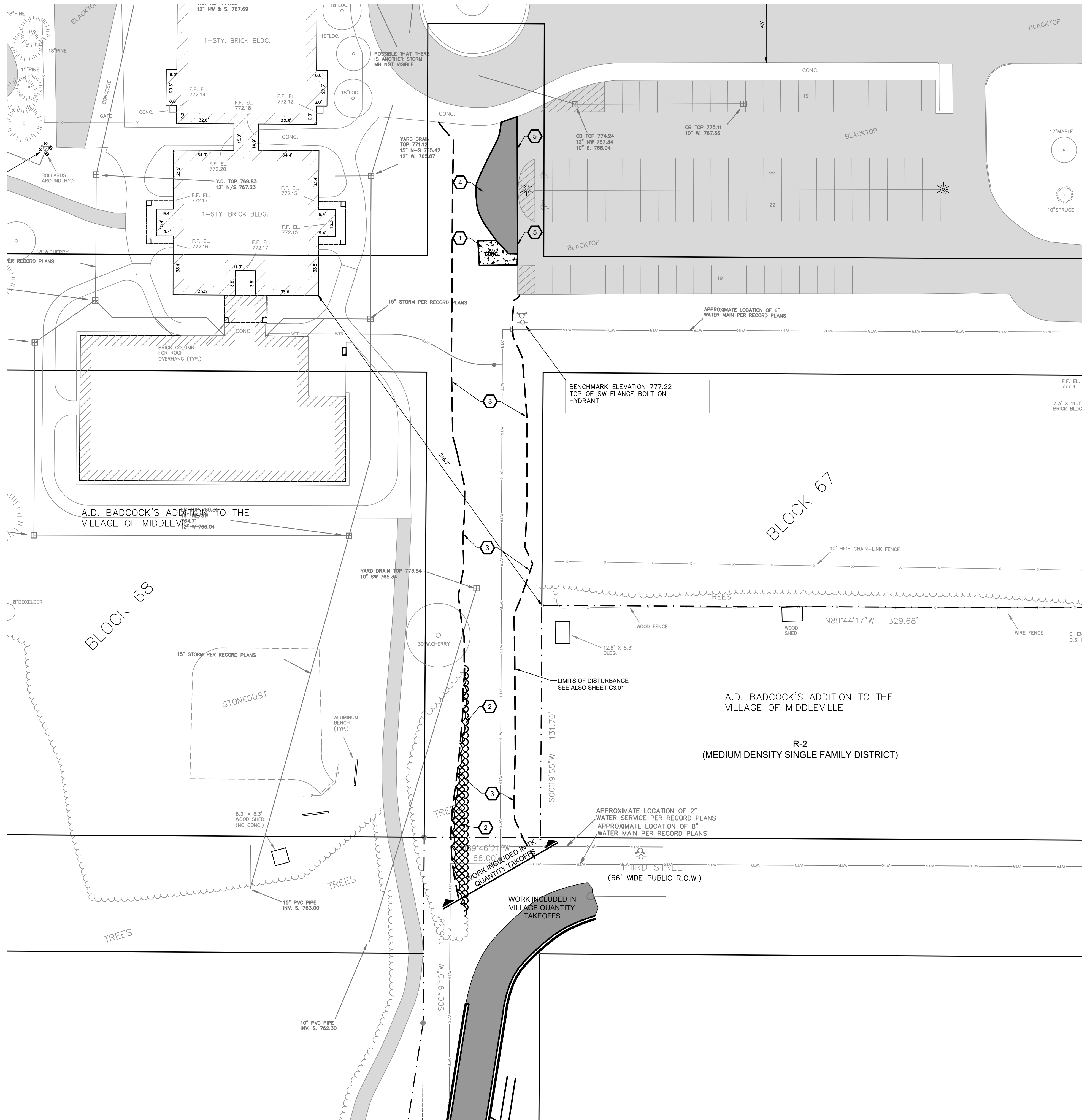
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EXISTING SITE SURVEY

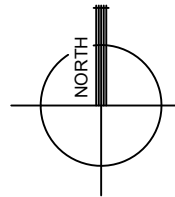


DEMOLITION NOTES:

1. REMOVE ALL UNUSABLE DEMOLITION MATERIALS AND DEBRIS FROM THE SITE AND DISPOSE OF PROPERLY OFFSITE. WHEREVER POSSIBLE, CONTRACTOR SHALL DIVERT DEMOLISHED MATERIALS FROM LANDFILL AND SEND TO LOCAL RECYCLING FACILITY.
2. BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
3. DO NOT BURY DEBRIS, ROOTS, TOPSOIL OR OTHER MATERIALS.
4. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OR THE LOCAL CODE OF ORDINANCES AND ACCIDENT/FIRE PREVENTION REGULATIONS.
5. PROTECT THE SITE, ADJACENT PROPERTY AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE/ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
6. ALL TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. DO NOT DRIVE HEAVY EQUIPMENT WITHIN 12 FT OF TREE TRUNKS. BRANCHES WHICH ARE DAMAGED DURING DEMOLITION OF STRUCTURES AND/OR SURFACES SHALL BE CUT OUT AS DIRECTED BY THE ARCHITECT/ENGINEER. ANY ROOTS OF TREES BEING SAVED WHICH ARE EXPOSED DUE TO DEMOLITION/REMOVAL SHALL BE COVERED WITHIN 8 HOURS WITH SOIL. DAMAGED TREES MAY BE REPLACED AT THE DISCRETION OF THE ARCHITECT/ENGINEER AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
7. UTILITIES SHOWN (IF ANY) ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THIS MAP IS NOT TO BE INTERPRETED AS SHOWING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA. SIZE AND INVERTS OF EXISTING PIPE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK ON NEW UTILITY CONNECTIONS.
8. DEMOLISH ALL SITE MATERIALS IN ACCORDANCE WITH LOCAL SPECIFICATIONS AND REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR WORK IN ROW AND ON ANY UTILITY CONNECTIONS OR ABANDONMENT PRIOR TO THE START OF CONSTRUCTION.
10. CONTRACTOR SHALL NOTIFY LOCAL BUILDING OFFICIALS MINIMUM 48 HOURS PRIOR TO START OF DEMOLITION.
11. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING SIGNAGE, BARRIERS, FLAG PERSONNEL AND ANY ADDITIONAL REQUIREMENTS OF THE LOCAL ROAD COMMISSION OR MUNICIPALITY. CONTRACTOR SHALL FOLLOW MOST RECENT EDITION OF MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
12. WHERE PAVEMENT, CONCRETE OR ASPHALT IS INDICATED TO BE REMOVED, IT SHALL BE SAWCUT FULL DEPTH. ALL CONCRETE CUTS SHALL BE MADE AT NEAREST CONSTRUCTION OR CONTROL JOINT. ALL ASPHALT CUTS SHALL BE MIN. 1 FT PAST EXISTING JOINTS WHEREVER POSSIBLE.
13. CONTRACTORS TO REVIEW ALL SHEETS FOR RELATED INFORMATION.

DEMOLITION KEY

- 1 DEMO AND REMOVE EXISTING CONCRETE FLATWORK. DIVERT ALL REMOVED CONCRETE TO LOCAL CRUSHING/RECYCLING FACILITY.
- 2 REMOVE TREES / VEGETATION FOR NEW ROAD.
- 3 STRIP TOPSOIL (APPROX. 3-6\"/>



DEMOLITION PLAN

1\"/>



Know what's below.
Call before you dig.

ISSUANCES

04.14.2023 BIDS &
CONSTRUCTION

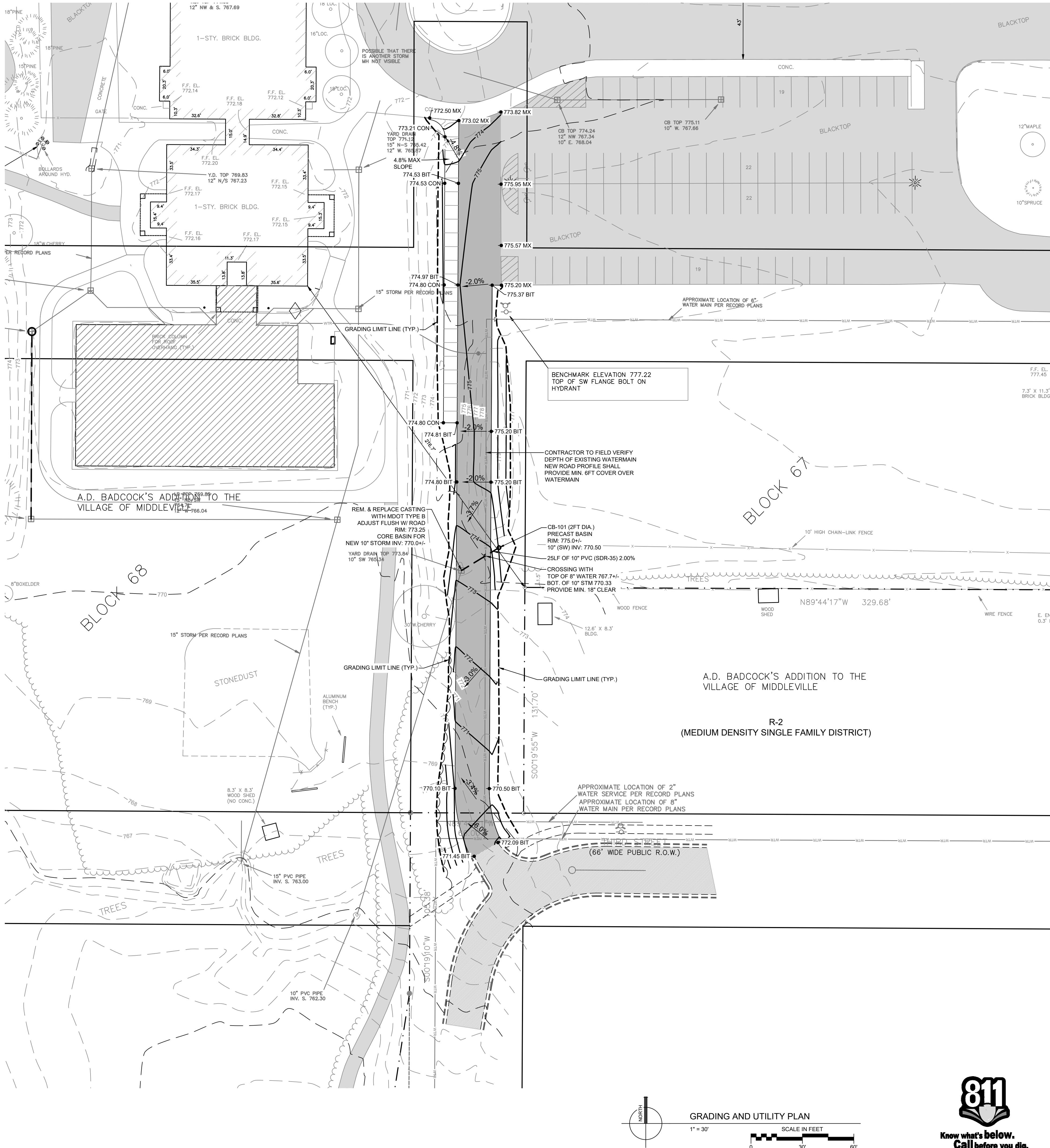
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DEMOLITION PLAN



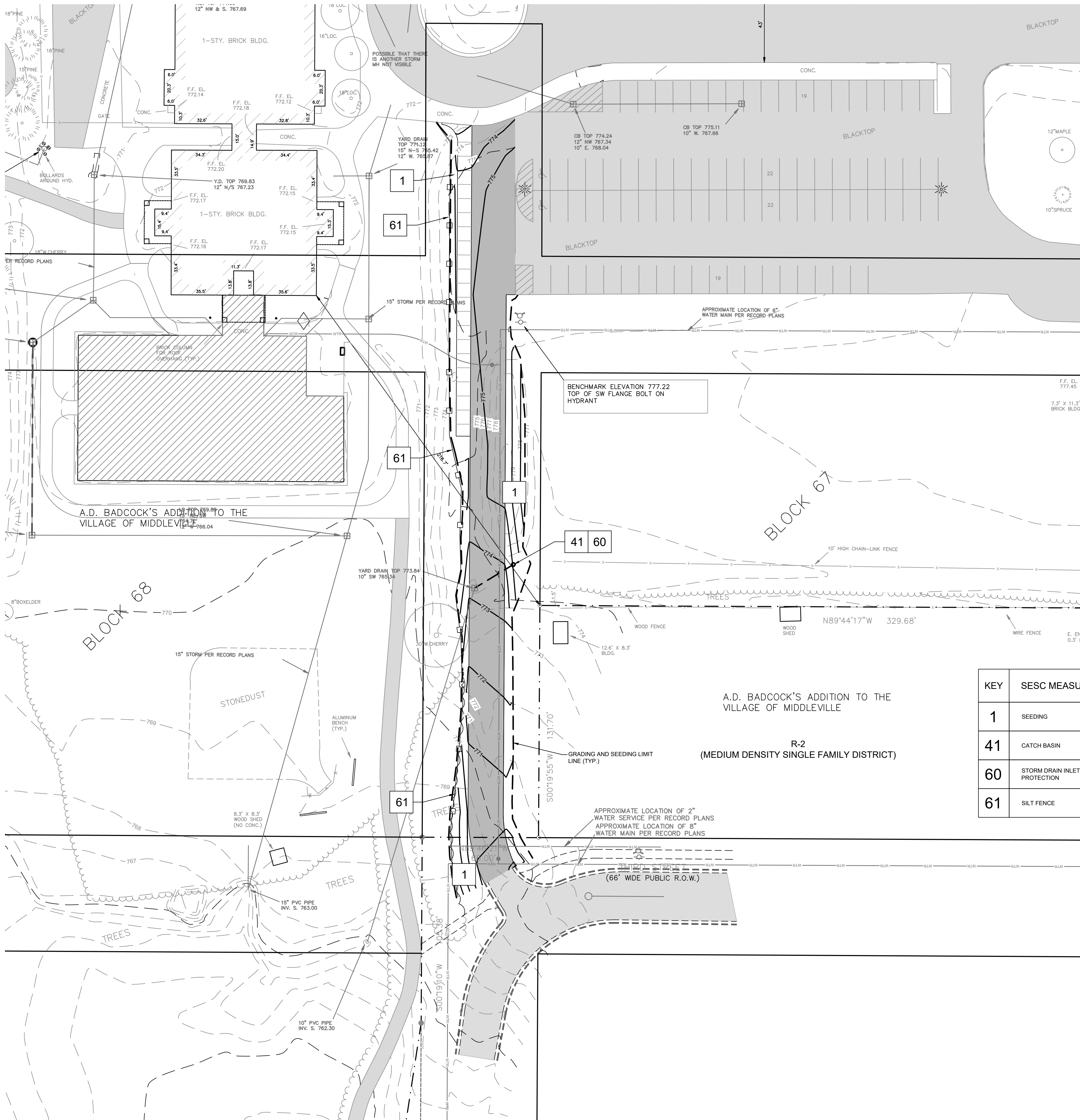
| Grading Legend | | |
|----------------|-------------------------|---------------|
| Symbol | Description | Detail/Spec |
| • XXX.XX | Proposed Spot Elevation | SPEC 31 20 00 |
| | Surface Flow Direction | |
| | Proposed Contour | |
| | Ex. Contour | |
| | Grading Limits | |

- Grading Notes:**
- ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OR THE LOCAL CODE, ORDINANCES AND ACCIDENT/FIRE PREVENTION REGULATIONS.
 - PROTECT THE SITE, ADJACENT PROPERTY AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE/ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 - ALL TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. REFER TO GENERAL LANDSCAPING PLAN AND NOTES FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 - CONTRACTOR SHALL OBTAIN SOIL EROSION PERMIT(S) INCLUDING SUBMITTING NOTICE OF COVERAGE TO MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (IF REQUIRED) PRIOR TO DISTURBING ANY SOIL. CONTRACTOR SHALL HAVE TEMPORARY EROSION CONTROLS IN PLACE PRIOR TO STARTING CONSTRUCTION.
 - REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS AND RECOMMENDATION RELATED TO SOIL PLACEMENT.
 - CONTRACTOR SHALL BE REQUIRED TO CHECK LINES AND GRADES AGAINST PLANS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - DO NOT BURY ANY DEBRIS, ROOTS, TOPSOIL OR OTHER DELETERIOUS/UNSUITABLE FILL MATERIALS.
 - LIST OF STANDARD ABBREVIATIONS -
 - "BIT" = PROPOSED BITUMINOUS GRADE
 - "CON" = PROPOSED CONCRETE GRADE
 - "FG" = FINISHED GRADE
 - "MX" = MATCH EXISTING

| Utility Symbol Legend | | |
|-----------------------|--|--|
| Symbol | Description | Detail/Spec |
| | CATCH BASIN OR STORM MANHOLE- REFER TO UTILITY TAG FOR ADDITIONAL INFO | PRECAST CONCRETE STRUCTURE INSTALL PER MDOT STD DETAIL |

| Utility Linetype Legend | | |
|-------------------------|--------------------|--------------------|
| Symbol | Description | Detail/Spec |
| | STORM SEWER | SEE PLAN FOR MAT'L |
| | EX. GAS SERVICE | |
| | EX. STORM SEWER | |
| | EX. SANITARY SEWER | |
| | EX. WATERMAIN | |
| | EX. ELECTRICAL | |

- Utility Notes:**
- ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OR THE LOCAL CODE, ORDINANCES AND ACCIDENT/FIRE PREVENTION REGULATIONS.
 - PROTECT THE SITE, ADJACENT PROPERTY AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE/ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 - UTILITIES SHOWN (IF ANY) ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THIS MAP IS NOT TO BE INTERPRETED AS SHOWING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA. SIZE AND INVERTS OF EXISTING PIPE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK ON NEW UTILITY CONNECTIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR WORK IN ROW AND ON ANY UTILITY CONNECTIONS OR ABANDONMENT PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE ANY UTILITY/SERVICE INTERRUPTIONS WITH OWNER AT LEAST ONE WEEK IN ADVANCE. CONTRACTOR SHALL ALSO NOTIFY LOCAL UTILITY PROVIDER WHERE APPLICABLE FOR OPERATION/DISCONNECTION OF PUBLIC OWNED EQUIPMENT.
 - CONTRACTOR SHALL ADEQUATELY PROTECT/SHORE ALL OPEN TRENCHES AS REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
 - EXISTING SEWER AND WATERMAIN LINES SHALL BE PROTECTED FROM DEBRIS AND CONSTRUCTION.
 - WATERMAIN CONSTRUCTION IS TO BE INSPECTED BY UTILITY OWNER. PRESSURE TESTING AND CHLORINATION OF THE WATERMAIN TO BE PERFORMED BY THE CONTRACTOR. WITNESSING OF INSTALLATION, PRESSURIZATION, CHLORINATION AND GATHERING OF WATER SAMPLES WILL BE PERFORMED BY THE UTILITY OWNER.
 - MAINTAIN A MINIMUM OF 5'-3" FROM FINISH GRADE TO CENTERLINE OF WATERMAIN PIPE.
 - CONTRACTOR SHALL BE REQUIRED TO CONTACT MISS DIG PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR WORK IN ROW AS WELL AS NOTIFYING LOCAL UTILITY OWNERS OF WORK IF PERMITS ARE NOT REQUIRED.
 - LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
 - QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL LINES, LEVELS AND DIMENSIONS.
 - CONTRACTOR IS TO VERIFY EXISTING UTILITY ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
 - CONTRACTORS TO REVIEW ALL SHEETS FOR RELATED INFORMATION.
 - LIST OF STANDARD ABBREVIATIONS -
 - "A.F.F." = ABOVE FINISHED FLOOR
 - "CB" = CATCH BASIN
 - "F.V." = FIELD VERIFY
 - "INV." = INVERT
 - "LF" = LINEAL FEET
 - "ST. MH" = STORM MANHOLE
 - "STM" = STORM



LANDSCAPING NOTES:

1. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND SEEDED PER MDT SPECIFICATIONS. REMOVE ALL STONES AND OTHER DEBRIS OVER 1" BEFORE SEEDING.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. EROSION AND SEDIMENTATION CONTROL ITEMS ARE SHOWN IN LINE DRAWINGS TO SUGGEST GENERAL CONCEPTS. ACTUAL CONSTRUCTION MAY BE VARIED TO REFLECT MATERIALS USED AND SPECIFIC SITE PROBLEMS SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER.
2. COLLECTED SILT AND SEDIMENT SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE EFFECTIVENESS OF THE SEDIMENTATION BASIN.
3. TEMPORARY EROSION AND POLLUTION CONTROL PROVISIONS SHALL BE COORDINATED WITH THE PERMANENT CONTROL FEATURES TO ASSURE EFFECTIVE CONTROL OF WATER POLLUTION DURING CONSTRUCTION.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION UNLESS ORDERED BY THE ARCHITECT/ENGINEER TO BE LEFT IN PLACE.
5. SOIL AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE BEFORE ON SITE CONSTRUCTION BEGINS.
6. REFER TO SOILS REPORT AND SPECIFICATION FOR ADDITIONAL INFORMATION.
7. REFER TO SOIL EROSION CONTROL KEY FOR ADDITIONAL INFORMATION.
8. CONTRACTOR RESPONSIBLE FOR OBTAINING SOIL EROSION CONTROL PERMITS FROM LOCAL SOIL EROSION CONTROL AGENCY AND APPLYING FOR PERMITS FROM MDEQ FOR SOIL EROSION PRIOR TO START OF ANY EARTH WORK.
9. CONTRACTOR SHALL PROVIDE A STORMWATER OPERATOR FOR THE SITE - PER NPDES PERMIT REQUIREMENTS.

| KEY | SESC MEASURE | SYMBOL | WHERE USED |
|-----|------------------------------|--------|---|
| 1 | SEEDING | | WHEN BARE SOIL IS EXPOSED, TEMPORARILY OR PERMANENTLY, TO EROSION FORCES FROM WIND AND OR WATER ON FLAT AREAS, MILD SLOPES, GRASSED WATERWAY AND SPILLWAYS, DIVERSION DITCHES AND DIKES, BORROW AND STOCKPILE AREAS, AND SPOIL PILES. |
| 41 | CATCH BASIN | | WHEN SURFACE WATER ACCUMULATES AND NEEDS AN OUTLET OR AN OPEN DRAIN DISCHARGES TO A STREAM OR DRAIN AT EROSION VELOCITIES, WITHIN AN ENCLOSED DRAIN SYSTEM TO PROVIDE AN INLET AND A SUMP. |
| 60 | STORM DRAIN INLET PROTECTION | | AROUND THE ENTRANCE TO A NEWLY CONSTRUCTED CATCH BASIN OR AN INLET THAT WILL CAPTURE RUNOFF FROM AN EARTH CHANGE ACTIVITY. |
| 61 | SILT FENCE | | AS A TEMPORARY MEASURE USED TO CAPTURE SEDIMENT FROM SHEET FLOW, MAY ALSO DIVERT SMALL VOLUMES OF SHEET FLOW TO PROTECTED OUTLETS. |

