



INVITATION TO BID
BID NO. 9934
TROY SCHOOL DISTRICT 2022 PAVING PROGRAM

The Troy School District will receive firm, sealed bids for all labor, material, equipment and all other services to complete Bid No. 9911 Troy School District Paving Program.

Specifications and proposal forms can be obtained online at <http://www.troy.k12.mi.us>. From the main page menu click the "Business Services" tab listed under "Departments", then click "Purchasing Bids and Invitations" and scroll down to locate and access the bid document. Bid documents will be placed on Buildingconnect.com with the following link: <https://app.buildingconnected.com/public/5cc9d7f637c1a90018cb55dc> by January 7, 2022 at 5:00 PM local time.

Sealed bids should be submitted through Buildingconnect.com with the following link: <https://app.buildingconnected.com/public/5cc9d7f637c1a90018cb55dc>. No physical bids will be accepted in person or via delivery service. Bids are to be submitted no later than **11:00 AM Local Time Tuesday January 25, 2022**. The District will not consider or accept a bid received after the date and time specified for bid submission. Bids will be publicly opened immediately following the close of receiving bids with the following virtual meeting link meet.google.com/szx-zasb-caz or phone number (402) 986-3203 PIN 178 740 466#. No oral, email, telephonic or telegraphic proposals shall be considered.

A pre-bid walk through has been scheduled for 10:00 a.m. Local Time, Tuesday, January 18, 2022 at Facility and Operations Building located at 1140 Rankin Drive, Troy, MI 48083. All questions regarding the services specified, the bid specified, or the bid terms and conditions will be accepted in writing ONLY and subsequently answered through an addendum to all interested parties. Questions must be received no later than 1:00 pm Local Time, Thursday, January 20, 2022; at no other time prior to the bid opening will questions/concerns be addressed or accepted and may be faxed to: 248.823.4077, or emailed as a Word document to: PurchasingOffice@troy.k12.mi.us.

All bidders must provide familial disclosure in compliance with MCL 380.1267 and attach this information to the bid proposal. The bid proposal will be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Troy School Board or the Troy School Districts Superintendent. Also, a sworn and notarized Affidavit of compliance for the Iran Economic Sanctions Act certifying the vendor does and will comply with Public Act 517 of 2012 shall accompany all proposals. Both forms will be enclosed in the specification's booklet that shall be used for this purpose. The District will not accept a bid proposal that does not include these sworn and notarized disclosure statement.

In accordance with Michigan Compiled Laws Section 129.201, successful bidders whose proposals are \$50,000 or more, for any bid category, will be required to furnish a U.S. Treasury Listed Company Performance and Payment Bond in the amount of 100% of their bid. The cost of the Bond shall be identified within each proposal.

The Troy Board of Education reserves the right to accept or reject any or all bids, either in whole or in part; to award contract to other than the low bidder; to waive any irregularities and/or informalities; and in general to make awards in any manner deemed to be in the best interest of the owner.

Purchasing Department
Troy School District
1140 Rankin
Troy, MI 48083

INSTRUCTIONS TO BIDDERS

PROPOSAL/INTENT

1. The Troy School District will receive firm, sealed bids for all labor, material, equipment and all other services to complete Bid No. 9934 Troy School District 2022 Paving Program
2. Sealed bids should be submitted through Buildingconnect.com with the following link: <https://app.buildingconnected.com/public/5cc9d7f637c1a90018cb55dc>. No physical bids will be accepted in person or via delivery service. Bids are to be submitted no later than **11:00 PM Local Time, Tuesday January 25, 2022**. The District will not consider or accept a bid received after the date and time specified for bid submission. Bids will be publicly opened immediately following the close of receiving bids with the following virtual meeting link <meet.google.com/szx-zasb-caz>. No oral, email, telephonic or telegraphic proposals shall be considered.
3. Proposals will be made in conformity with all the conditions set forth in the specifications. All products must conform to the specifications.
4. A pre-bid walk through has been scheduled for 10:00 AM. Local Time, Tuesday, January 18, 2022 at Facilities and Operations Building located at 1140 Rankin Drive, Troy, MI 48083. Questions must be received no later than 1:00 PM Local Time, Thursday, January 20, 2022.
5. Bidder shall be reputable and a recognized organization, with at least five (5) years successful experience on work of this type and scope, of equal or better quality than this project.
6. References in the specifications to any article, product, material, fixture, form or type of construction, etc., by proprietary name, manufacturer, make or catalog number will be interpreted as establishing a standard quality of design and will not be construed as limiting proposals.
7. Bid bond or certified check, for an amount not less than five (5%) percent of the amount of the bid, must accompany each bid. Failure to submit proper bid security shall constitute rejection of bid.
8. A performance bond shall be required for the project if the cost is in excess of \$50,000 and must be listed separately on the proposal form as an individual line item.
9. A completed Familial Disclosure and an Iran Economic Sanctions form must be included with each proposal submitted or the proposal will not be accepted, please note these forms must be notarized.
10. The Troy Board of Education reserves the right to accept or reject any or all proposals either in whole or in part; to waive any irregularities and/or informalities; and in general to make awards or cancel this proposal, if deemed to be in the best interests of the owner.

SCOPE

This bid includes Troy School District Paving Program per the attached documents. Proposals will be on a line item lump sum basis, according to the schedule listed below and where specified only the qualified products listed will be considered in this proposal.

WARRANTY

All material and equipment will be guaranteed to be free from defects in both workmanship and materials for no less than two years from date of receipt/installation. If manufacturer warranty exceeds this minimum requirement, the manufacturer warranty will prevail. Any item(s) found to be defective will be replaced or repaired within seven working days at Vendor(s) expense.

WITHDRAWAL OF BIDS

Any bidder may withdraw their bid at any time prior to the scheduled time for receipt of bids. No proposal may be withdrawn until after 45 days after bid opening.

FIRM PRICING

Unit pricing will prevail when computing total quantity on bids. No price allowance or extra consideration on behalf of the bidder will subsequently be allowed by reason of error or oversight on the part of the bidder. The successful bidder(s) will hold bid prices firm for all purchase orders placed for a period of approximately one full year.

PERMITS, FEES AND REGULATIONS

The Contractor shall obtain and pay for all permits, assessments, fees, bonds, and other charges as necessary to perform and complete the work of this contract, including disconnection charges, capping and unplugging utilities.

The Contractor shall be responsible for obtaining all permits and licenses necessary for the proper completion of project. Permits and licenses are available from the appropriate agencies having jurisdiction. The Contractor shall give all notices, pay all fees and comply with all laws, ordinances, rules and regulations bearing on the work. At the completion of the project, the Contractor will provide to the District all paperwork related to the full execution of the permits(s), including all payments and inspections.

If any of the work of the Contractor is done contrary to such laws, ordinance rules and regulations without such notice, he shall bear all costs arising therefrom. The Contractor shall include all cost and taxes in its bid, and make proper provisions for payment of all other State and Federal applicable taxes, fees or other costs.

TAXES

Troy School District is not automatically exempt from State of Michigan Sales and Use Taxes. The District must pay these taxes when materials are to be incorporated into reality. Materials that are permanently attached i.e lockers, built-in, incorporated or otherwise made part of the structure all applicable taxes shall be paid by the Vendor. Troy School District shall not be responsible for any taxes that are imposed on the Vendor. Furthermore, the Vendor understands that it cannot claim exemption from taxes by virtue of any exemption that is provided to Troy School District.

DELIVERY/INSTALLATION

Time of delivery is part of the consideration. It is understood that the bidder agrees to deliver prepaid to the schools, specified from the resulting contract, all items. All cost of delivery, drayage, freight, packing, unpacking, and setup are to be included in the prices bid.

The Contractor is responsible for removing from the project all waste materials and rubbish resulting from his operations and installation including all packing cartons and debris. Removal is to occur on a daily basis. Failure to do so will result in the Owner doing so and the cost thereof shall be charged to the Contractor as a deduction in his contract price.

The Contractor shall provide an adequate number of qualified, experienced installers, in harmony with other works at the site.

BID SECURITY

Bid Bond or certified check, for an amount not less than five (5%) percent of the amount of the bid, must accompany each bid. The check or bond of each unsuccessful bidder will be returned within ten (10) days after the bid is awarded. Failure of any accepted bidder to enter into a contract to complete the specified work may forfeiture of his bid security. Failure to submit proper bid security shall constitute rejection of bid.

PERFORMANCE BOND/PAYMENT BOND

Within fourteen (14) days after date of issuance of written notice of selection for the award of a contract, which shall be considered as the notice to proceed, the successful bidder shall enter into a contract with the Owner and shall execute and file with the Owner, the following in the amount 100% equal to full contract sum.

A performance bond shall be required for the project if the cost is in excess of \$50,000 and must be listed separately on the proposal form as an individual line item. The Performance Bond must insure the faithful performance of all provisions of the contract and satisfactory completion of the specified work, within the time agreed upon.

The payment bond must insure the payment and protection of claimants supplying labor or materials to the principal contractor or his subcontractors in the prosecution of the work provided for in the contract. The successful contractor's bond company must be listed by the State of Michigan as a licensed carrier and have an excellent or superior rating from AM Best Company.

SAFETY

Under the "General Conditions of the Contract for Construction" of the contract to be awarded, the Contractor;

- a) shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures;
- b) shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the contract;
- c) shall take reasonable precautions for safety of all persons who may be affected, including employees of the Contractor and Subcontractor; and
- d) shall have an accident prevention representative at the site.

The general conditions of the contract for construction and the agreement also require that the Contractor indemnify the Owner in the event of certain claims arising out of the performance of the work.

INSURANCE REQUIREMENTS

The Contractor shall protect, defend and indemnify the Owner, its officers, agents, servants, volunteers, and employees from any and all liabilities, claims, liens, demands, and costs of whatsoever kind and nature which may result in injury or death to any persons, and for any result in injury or death to any person, and for loss or damage to any property, including property owned or in the care, custody, or control of the Owner in connection with or in any way incident to or arising out of the occupancy, use, with this Agreement resulting in whole or in part from negligent acts or omissions of the Contractor, any Subcontractor, or any employee, agent or representative of the Contractor or any Subcontractor.

The Contractor shall maintain, at its expense, during the term of this contract the following insurance:

- a) Worker's Compensation Insurance with statutory limits and Employer's Liability Insurance with a minimum limit of \$1,000,000 each occurrence.
- b) Comprehensive General Liability Insurance with a minimum combined single limit of \$1,000,000 per occurrence, \$1,000,000 aggregate, in the same amount made for bodily injury and property damage. The policy is to include products and completed operations, cross liability, broad form property damage, independent contractors, and contractual liability coverage. The policy shall be endorsed to provide sixty (60) days written notice to the District of any material change of coverage, cancellation, or non-renewal of coverage.
- c) If Subcontractors are likely to be used, the Comprehensive General Liability policy shall include coverage for independent Contractors.
- d) Owner's Contractor's Protective Policy-comprehensive in the name of the Owner, with a minimum combined single limit of \$1,000,000 per occurrence in the same amount for bodily injury or property damage.
- e) Automobile Liability insurance covering all owned, hired, and non-owned vehicles with personal protection insurance and property insurance to comply with the provisions of the Michigan no-fault Insurance Law, including residual liability insurance with a minimum combined single limit of \$1,000,000 each occurrence of bodily injury and property damage.
- f) All insurance policies shall be issued by companies licensed to do business in the State of Michigan. The companies issuing the policies must be domestic (on-shore) companies and have an A rating by AM Best.
- g) The Contractor shall be responsible for payment of all deductibles contained in any insurance policy required in this contract.

COMPLIANCE WITH SCHOOL SAFETY INITIATIVE LEGISLATION

Meeting the requirements of the School Safety Initiative Legislation, being MCL 380.1230, 80.1230a, 380.1230c, 380.1230d and 380.1230g.

The Bidder acknowledges and agrees that the Bidder will have any and all of its installation personnel (including sub-contractors) subjected to criminal history and background checks. **Personnel that fall into this group will be working on District premises for more than one continuous week.** Criminal history and background checks will be done within a year of the beginning of the project and should be completed before worked begins on this project.

The Bidder is required to provide written documentation listing all personnel who fall into the group indicated in the above paragraph. The documentation will also verify that none of the personnel have a “listed offense” as indicated below. This documentation is to be provided before the beginning of the project and updated as necessary for any additions or subtractions from the list as long as the project lasts.

The Bidder shall indemnify, defend and hold the District, its employees, Board of Education, and each member thereof, agents and consultants, harmless from and against any and all claims, counter-claims, suits, debts, demands, actions, judgments, liens, liabilities, costs, expenses, including actual attorney’s fees and actual expert witness fees, arising out of or in connection with any violation of, or the Bidder’s failure to comply with the above paragraphs.

The Bidder shall be responsible for all costs and expenses associated with the above-required criminal history and background checks.

LISTED OFFENSES

1. MCL 750.145a - Accosting, enticing or soliciting child (less than 16 years of age) for immoral purposes.
2. MCL 750.145b - Accosting, enticing or soliciting child (less than 16 years of age) immoral purposes – second or subsequent offenses.
3. MCL 750.145c - Involvement in child sexually abusive activity or material, including possession of child sexually abusive material (“child” is a person less than 18 years of age who has not been legally emancipated.)
4. MCL 750.158 - Crime against nature (i.e., sodomy and bestiality) if the victim is an individual less than 18 years of age.
5. A third of subsequent violation of any combination of the following:
 - a. MCL 750.167(1)(f) - indecent or obscene conduct in a public place;
 - b. MCL 750.335a - indecent exposure;
 - c. A local ordinance of a municipality substantially corresponding to a section described in (a) or (b), *supra*.
6. Except for juvenile disposition or adjudication, a violation of:
 - a. MCL 750.338 - gross indecency between males; fellatio or masturbation;
 - b. MCL 750.338a - gross indecency between females; oral sex;
 - c. MCL 750.338b - gross indecency between male and female persons; if the victim is an individual less than 18 years of age.
7. MCL 750.349 - Kidnapping, if victim is an individual less than 18 years of age.
8. MCL 750.350 - Kidnapping; child under 14 years of age with intent to detain or conceal from child’s parent or legal guardian.
9. MCL 750.448 - Soliciting or accosting by a person 16 years of age or older, if victim is an individual less than 18 years of age.
10. MCL 750.455 - Pandering
11. MCL 750.520b - First degree criminal sexual conduct.
12. MCL 750.520c - Second degree criminal sexual conduct.
13. MCL 750.520d - Third degree criminal sexual conduct.
14. MCL 750.520e - Fourth degree criminal sexual conduct.
15. MCL 750.520g - Assault with intent to commit criminal sexual conduct.

16. Any other violation of a law of the state or a local ordinance of municipality that by its nature constitutes a sexual offense against an individual who is less than 18 years of age.
17. MCL 750.10a - Offense by sexually delinquent person (i.e., “any person whose sexual behavior is characterized by repetitive or compulsive acts which indicate a disregard of consequences or the recognized rights of others, or by the use of force upon another person in attempting sexual relations of either a heterosexual or homosexual nature, or by the commission of sexual aggressions against children under the age of 16”).
18. An attempt or conspiracy to commit an offense described in (1) through (17).
19. An offense substantially similar to an offense described in (1) through (17) under a law of the United States, any state, or any country or any tribal or military law.

TERMINATION BY THE DISTRICT FOR CONVENIENCE

The District may, at any time, terminate the Contract for the District’s convenience and without cause.

Upon receipt of written notice from the District of such termination for the District’s convenience, the Contractor shall:

- a) Cease operations as directed by the District in the notice;
- b) Take actions necessary, or that the District may direct, for the protection and preservation of the Work; and
- c) Except for Work directed to performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further Subcontracts and purchase orders.

Owner Is An Equal Opportunity Employer

The Owner is an Equal Opportunity Employer. Pursuant to the Executive Order 11246 as amended, you are advised that under the provisions of this order, Contractors and Subcontractors are obligated to take affirmative action to provide equal opportunity without regard to race, creed, color, national origin, age or sex.

Michigan Right to Know Law

Troy School District will comply with the Michigan Right to Know Law by informing Contractors of hazardous chemicals to which they may be exposed. All Contractors will be required to provide Material Safety Data Sheets for any hazardous chemicals brought to the workplace. The Contractor shall comply with all applicable provisions of the Occupational Safety and Health Act for the duration of the specified work.

Asbestos Hazard Emergency Response Act

As required by the Environmental Protection Agency Asbestos Hazard Emergency Response Act, each school district is responsible for providing contractors with information regarding locations of known or assumed asbestos containing material prior to the Contractor entering a building under the school district’s jurisdiction. The successful bidder will be required to complete the school district’s Contractor Notification forms.

Notification of Assumed Lead-Containing Materials

The intent of this section is to formally notify all Contractors and Sub-Contractors applying for or bidding on work covered within this specification that, due to the age of the facilities within this District, there is the presumption that building components do contain lead-based paint pursuant to OSHA definition. The District has not conducted lead-based paint inspections. As a result, all Contractors and Sub-Contractors bidding must assume that building components do contain lead-based paint.

Furthermore, all awarded Contractors and Sub-Contractors shall be responsible to comply with all applicable Federal and Michigan State lead regulations including, but not limited to, 29 CFR Part 1926.62 of the OSHA Lead Construction Standard, (Part 603 of the Michigan State Standards). All costs associated with regulatory compliance shall be borne by the Contractor and/or Sub-Contractor.

General Conditions

The District reserves the right to accept or reject any or all proposals, to waive irregularities, and to accept a proposal which, in the District's opinion, is in the District's best interest.

The District reserves the right to declare as non-responsive, and reject, any bid which is incomplete or where material information requested is not furnished, or where indirect or incomplete answers or information is provided.

In the event, the Administration Building is closed due to unforeseen circumstances on the day Proposals are due, Proposals will be due at the same time on the next day that the District and/or the Administration Building is open.

Negligence in preparation, improper preparation, errors in, or omissions from, proposal shall not relieve a bidder from fulfillment of any and all obligations and requirements of the proposed Contract Documents.

The District expects that the awarded bidder will complete the work as outlined in the specifications for the amount bid by the bidder. Any additional costs above the amount bid and awarded, must be approved by the District in advance of any work.

Voluntary alternates for bids are acceptable but should NOT be put in the space for the Base Bid on the Bid Response Form but on an attached sheet, clearly labeled Voluntary Alternative. Such Alternates should be described in enough detail for the District to understand the Bidder's intent.

Owner may choose to conduct testing to verify correct products and installation. If the materials and installation are found not to be per spec, owner will require subsequent tests to be performed by Owners testing company at contractors' expense.

Any exceptions to the terms and conditions contained in this RFP or any special considerations or conditions requested or required by the Contractor MUST be specifically enumerated by the Contractor and be submitted as part of its Proposal, together with an explanation as to the reason such terms and conditions of this RFP cannot be met by, or in the Contractor's opinion should not be applicable to, the Contractor. The Contractor shall be required and expected to meet the specifications and the requirements as set forth in this RFP in their entirety, except to the extent exceptions or special considerations or conditions are expressly set forth in the Contractor's Proposal and those exceptions or special considerations or conditions are expressly accepted by the District.

No responsibility shall attach to the District, or the authorized representatives of either one, for the premature opening of any proposal, which is not properly addressed and identified.

The Contract Documents, as outlined in the executed Agreement, shall imply the inclusion of the entire agreement between the parties thereto, and the Contractor shall not claim any modification thereof resulting from any representation or promise made at any time by an officer, agent or employee of the District or by any other person.

The bidders shall include an allowance for the following:

- \$5,000 for Bemis Elementary School.
- \$10,000 for Martell Elementary School
- \$5,000 for Wass Elementary School
- \$5,000 for Operations and Facilities Building

Opening and Awarding of Bids

Bids will be publicly opened and read aloud immediately following the close of receiving bids with the following virtual meeting link meet.google.com/szx-zasb-caz at 11:00 AM local time, Tuesday, January 25, 2022.

The recommendation for award will be submitted to the Board of Education at the regular Board of Education Meeting to be held on Tuesday, February 1, 2022, and Tuesday February 15, 2022.

Scope of Work \ Specifications

Drawings and Specifications

Drawings

<u>#</u>	<u>Description</u>	<u>Date</u>	<u>#</u>	<u>Description</u>	<u>Date</u>
GENERAL			WASS ELEMENTARY SCHOOL		
C-0.0	Cover Sheet	1/6/22	C-1.0	Topographic Survey–Overall	1/6/22
HAMILTON ELEMENTARY SCHOOL			C-1.1	Topographic Survey–Southwest	1/6/22
C-1.0	Topographic Survey	1/6/22	C-1.2	Topographic Survey–Northwest	1/6/22
C-2.0	Demolition Plan	1/6/22	C-1.3	Topographic Survey–East	1/6/22
C-3.0	Dimension Plan	1/6/22	C-2.1	Dimension Plan – Southwest	1/6/22
C-4.0	Engineering Plan	1/6/22	C-2.2	Dimension Plan - Northwest	1/6/22
C-5.0	Erosion Control Plan	1/6/22	C-2.3	Dimension Plan- East	1/6/22
MARTELL ELEMENTARY SCHOOL			C-3.1	Dimension & Paving Plan - Southwest	1/6/22
C-1.0	Overall Topographic Survey	1/6/22	C-3.2	Dimension & Paving Plan - Northwest	1/6/22
C-1.1	Topographic Survey - West	1/6/22	C-3.3	Dimension & Paving Plan–East	1/6/22
C-1.2	Topographic Survey - East	1/6/22	C-4.1	Engineering Plan - Southwest	1/6/22
C-1.3	Topographic Survey - Southeast	1/6/22	C-4.2	Engineering Plan - Northwest	1/6/22
C-2.1	Demolition Plan -West	1/6/22	C-4.3	Engineering Plan – East	1/6/22
C-2.2	Demolition Plan -East	1/6/22	C-5.1	Erosion Control Plan-Southwest	1/6/22
C-2.3	Demolition Plan -Southeast	1/6/22	C-5.2	Erosion Control Plan-Northwest	1/6/22
C-3.0	Dimension and Paving Plan	1/6/22	C-5.3	Erosion Control Plan – East	1/6/22
C-4.1	Engineering Plan - West	1/6/22	C-9.0	Notes and Details	1/6/22
C-4.2	Engineering Plan - East	1/6/22	C-9.1	Details	1/6/22
C-4.3	Engineering Plan - Southeast	1/6/22	FACILITES AND OPERATIONS		
C-5.0	Erosion Control Plan	1/6/22	C-2.0	Demolition Plan	1/6/22
C-1.0	Topographic Survey	1/6/22	C-4.0	Engineering Plan	1/6/22
C-3.0	Dimension Plan	1/6/22			
C-5.0	Erosion Control Plan	1/6/22			

Specifications

<u>#</u>	<u>Description</u>	<u>Pages</u>	<u>#</u>	<u>Description</u>	<u>Pages</u>
310516	Soils and Aggregates	6	311000	Site Clearing	5
312213	Rough Grading	4	312316	Excavation	3
312317	Trenching	4	312323	Fill	3
312513	Erosion Controls	3	321216	Asphalt Paving	6
321313	Concrete Paving	13	321723	Pavement Markings	5
329119	Landscape Grading	2	329219	Seeding	5
330513	Manholes and Structures	6	334100	Storm Utility Drainage Piping	5
334600	Subdrainage	2			

Geotechnical Reports as Prepared by G2 Consulting Group

Hamilton Elementary School dated December 22, 2021.

Martell Elementary School dated December 23, 2021.

Transportation District Building (Facilities and Operations) dated December 20, 2021

Wass Elementary School dated December 19, 2021

Work Schedule

- Start Date: June 20, 2022
- Substantial Completion Date: August 19, 2022
- Final Completion Date: September 9, 2022
- Final Closeout: 45 Days after Substantial Completion



DUE: 11:00 PM Local Time, Tuesday, January 25, 2022
PROPOSAL: BID 9934 Troy School District 2022 Paving Program

PROPOSAL FORM

We propose to furnish all material, labor and equipment, as per the specifications, for the Troy School District and all other services to complete BID 9911 Troy School District Paving Program.

PROJECT #1 – HAMILTON ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 250 Cubic Yards: \$ _____

Allowance Amount Project #1: \$ 5,000.00

Grand Total Project #1 - \$ _____

PROJECT #2 – MARTELL ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 250 Cubic Yards: \$ _____

Allowance Amount: \$ 10,000.00

Grand Total Project #2 - \$ _____

PROJECT #3 – WASS ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 175 Cubic Yards: \$ _____

Allowance Amount Project #1: \$ 5,000.00

Grand Total Project #3 - \$ _____

PROJECT #4 – FACILITIES AND OPERATIONS BUILDING

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 100 Cubic Yards: \$ _____

Allowance Amount: \$ 5,000.00

Grand Total Project #4 - \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Alternate #1. Wass Elementary School. Removal & Replacement of the pavement and associated work for the entrance loop \$ _____

UNIT PRICING

<u>Description</u>	<u>Units</u>	<u>Unit Price</u>
Remove Sidewalk	SF	\$ _____
Remove Asphalt Pavement	SF	\$ _____
Remove Concrete Pavement	SF	\$ _____
Remove Curbing	LF	\$ _____
Remove Concrete Stoop	EA	\$ _____
Sawcut Pavement	LF	\$ _____
Cold Milling Bituminous Surface (1 ½")	SF	\$ _____
Mill and Pave 24" Wide Butt Joint	SF	\$ _____
Subgrade Undercutting	CY	\$ _____
4" HDPE Single Walled Underdrain with Sock	LF	\$ _____
6" HDPE Single Walled Underdrain with Sock	LF	\$ _____
6" PVC SDR 26 Storm Sewer	LF	\$ _____
8" PVC SDR 26 Storm Sewer	LF	\$ _____
10" PVC SDR 26 Storm Sewer	LF	\$ _____
12" RCP Storm Sewer	LF	\$ _____
15" RCP Storm Sewer	LF	\$ _____
18" RCP Storm Sewer	LF	\$ _____
24" RCP Storm Sewer	LF	\$ _____
Adjust Fire Hydrant	EA	\$ _____
Adjust Utility Manhole/Catch Basin (12-Inches or Less)	EA	\$ _____
Adjust Non Manhole Utility Structure (12-Inches or Less)	EA	\$ _____
Reconstruct Utility Manhole/Catch Basin (After 1 st 12-Inches)	VF	\$ _____
Replace Manhole/Catch Basin Frame and Cover	EA	\$ _____
Replace Non-Manhole Utility Cover/Box	EA	\$ _____
18" MDOT 3,500 P1 Concrete Curb & Gutter w/4" Agg. Base	LF	\$ _____
24" Mountable MDOT 3,500 P1 Concrete Curb w/4" Agg. Base	LF	\$ _____
4" Integral MDOT 3,500 P1 Concrete Sidewalk Curb w/4" Sand Base	SF	\$ _____

UNIT PRICING CONT.

<u>Description</u>	<u>Units</u>	<u>Unit Price</u>
4” MDOT 3,500 P1 Concrete Sidewalk w/4” Sand Base	SF	\$ _____
4” MDOT 3,500 P1 Concrete Pavement	SY	\$ _____
MDOT 3,500 P1 Concrete Stoop	EA	\$ _____
1.5” MDOT 5E1 Asphalt Overlay	SY	\$ _____
3” Playground MDOT 36/13A Asphalt Pavement	SY	\$ _____
4” MDOT 5EML/4ELM Asphalt Pavement	SY	\$ _____
5” MDOT 5EML/4EML Asphalt Pavement	SY	\$ _____
6” 21AA Aggregate (CIP)	SY	\$ _____
8” 21AA Aggregate (CIP)	SY	\$ _____
10” 21AA Aggregate (CIP)	SY	\$ _____
1” x 3” Crushed Concrete Aggregate (CIP)	SY	\$ _____
Coal Tar Sealcoat (2 coats)	SF	\$ _____
Asphalt Joint & Crack Routing & Sealing	LF	\$ _____
6” Steel Bollard – Concrete Filled	EA	\$ _____
Playground Striping (2 coats)	LF	\$ _____
Parking Lot Striping (2 coats)	LF	\$ _____
Parking Lot Symbols (Arrows, Stop, Etc.) (2 coats)	LF	\$ _____
Cross Walk Hatching (2 coats)	EA	\$ _____
Add Parking Lot Striping (2 coats)	LF	\$ _____
Add Parking Symbols (2 coats)	EA	\$ _____
Signage (Stop, Yield, PED Crossing, Etc.) with Post Only	EA	\$ _____
Signage (Stop, Yield, PED Crossing, Etc.) with Post/Bollard	EA	\$ _____
ADA Sign with Post/Bollard	EA	\$ _____
Concrete stoop for a 48” Wide Door Including Excavation	EA	\$ _____
Concrete stoop for a 66” Wide Door Including Excavation	EA	\$ _____
Tensar Tri-Axial Geo-Grid	SF	\$ _____

NOTE: Unit prices are for work items to be added or removed from the contract

BIDDER'S FIRM NAME _____

ADDRESS _____

CITY/STATE _____ ZIP _____

CELL NUMBER _____ FAX # _____

SIGNED BY _____ TITLE _____

TYPED NAME _____ DATE _____

E-MAIL ADDRESS _____

VENDOR: LIST FIVE RECENT REFERENCES, PREFERABLY SCHOOL DISTRICTS:

School District	Person to Contact	Phone Number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Interested vendors will note in this space only any additional information, criteria or contingencies affecting their proposal, understanding that this additional information, criteria or contingency may be utilized in the evaluation process and subsequent award.

**SWORN AND NOTARIZED FAMILIAL DISCLOSURE STATEMENT
FAMILIAR DISCLOSURE AFFIDAVIT**

The undersigned, the owner or authorized office of the below-named contractor (the ‘Contractor’), pursuant to the familial disclosure requirement provided to Troy Schools, hereby represents and warrants that, excepts as provided below, no familial relationship exists between the owner or key employee of the Contractor, and any member of the Troy School Board or the Troy School Superintendent. A list of the School District’s Board of Education Members and its Superintendent may be found at <http://www.troy.k12.mi.us>.

List any Familial Relationships:

Contractor:

Print Name of Contractor

By: _____

Its: _____

Subscribed and sworn before me, this _____ Seal:

day of _____, 20 _____, a Notary Public

in and for _____ County, _____

(Signature)
NOTARY PUBLIC

My Commission expires _____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT

Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named Company, pursuant to the compliance certification requirement provided in Troy School District’s Request For Proposal, the “RFP”, hereby certifies, represents, and warrants that the Company and its officers, directors and employees, is not an “Iran Linked Business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event the Company is awarded a contract by Troy School District as a result of the aforementioned RFP, the Company is not and will not become an “Iran Linked Business” at any time during the course of performing any services under the contract.

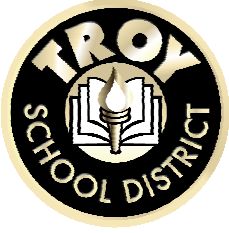
The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of Troy School District’s investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date the it is determined that the person has submitted the false certification.

NAME OF COMPANY

NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

SIGNATURE

DATE



Addendum 1

Project: **BID NO. 9934 TROY SCHOOL DISTRICT 2022 PAVING PROJECT**

Bid Due date: 11:00 AM Tuesday, January 25, 2022 (UNCHANGED)

This Addendum is issued as modifications to the RFP previously issued to provide clarifications to the scope of work. This Addendum supersedes the original RFP. This along with the RFP becomes the bid documents.

I. General Information

1. For questions e-mail purchasingoffice@troy.k12.mi.us or through Buildingconnected.com.
2. Addendum #1 dated January 18, 2022 as prepared by PEA Group. (Attached)
3. Revise Bid Package, Proposal Form. Revise PF-2. Add Alternate #2 for Facilities and Operations Building. (Attached)
4. Pre-Bid Meeting Sign In Sheet dated January 18, 2022. (Attached)

END



2430 Rochester Court, Suite 100
Troy, MI 48083

844.813.2949
peagroup.com

PROJECT: 2022 Troy School District Site Improvements – Paving Projects
DATE: January 20, 2022
FROM: PEA Group
PEA JOB No.: 2021-0584
PURPOSE: Pre-Bid Meeting Revisions - Addendum 1

The following clarifications/changes have been made to the bid package based on comments from bidders at the on-site Pre-bid meeting on 1/18/2022.

1. The classification for the Tensar Tri-Axial Geogrid to be used for determining the unit price is TX140. An undercut detail has been added to sheet C-9.1 and added language for when this geogrid would be used.
2. Hamilton Elementary:
 - a. Sheet C-2.0
 1. A note has been added to remove the asphalt between the concrete ramp and stoop for the shed.
 2. The thickness for the mill area was revised to 2” to match the detail and wearing course thickness of the propose pavement.
 3. The callout for the fencing adjacent to the sidewalk being removed in the southern portion of the work area and near the play scape area has been updated to reflect keeping it in place and protecting it.
 - b. Sheet C-3.0
 1. The thickness for the overlay area was revised to 2” to match the detail and wearing course thickness of the proposed pavement.
 2. A call out has been added for the sidewalk being replaced in the southern portion of the work area and near the play scape area has been updated to reflect keeping the new walk a few inches away from the existing fencing that is remaining in place. The gap between the fencing and proposed walk shall be at a minimum and only the distances needed to form the work without damaging and/or having to remove the fencing.
3. Martell Elementary:
 - a. Sheet C-2.1
 1. The rocks called out to be removed are to be disposed of per the plans and specifications. They will not be salvaged and reused.
 2. The quantity table has been updated to reflect removal of the stockpile of dirt in front of the pond and revisions to the fencing.

- b. Sheet C-2.2
 - 1. The call out has been updated to reflect that there is temporary construction fencing, and not chain link mesh, along the west side of the pond. The contractor is to utilize the existing temporary construction fencing and add to it as needed, to secure the area during completion of this project. Therefore, there will not be any fencing removal along the west side of the pond. If any existing poles need to be removed to complete the work it is expected that they be reinstalled upon completion of the work at no additional costs to the district.
 - 2. The contractor is responsible to remove any sections of fencing that has to be removed in order to complete the scope of work for this project in all other areas of the site, other than the west side of the pond, as shown on the plans.
- c. Sheet C-3.0
 - 1. An estimated quantity of 2,000 linear feet for joint and crack routing and sealing has been added to the Quantity Table.
- d. Sheet C-4.1
 - 1. Additional call outs and grading information has been added to reflect how the island areas are to be graded and restored.
 - 2. The quantity table has been updated to reflect the revisions to the fencing.
 - 3. The call out has been updated to reflect coordinated with the district on if temporary construction fencing, existing or new, along the west side of the pond to remain or be removed upon completion of the work. The district will be completing any and all permanent fencing replacement around the pond separately and upon completion of the work for this project. Therefore, there will not be any permanent fencing replacement along the west side of the pond. If any existing poles need to be removed to complete the work it is expected that they be reinstalled upon completion of the work at no additional costs to the district.
 - 4. The contractor is responsible to reinstall/replace any sections of fencing that had to be removed in order to complete the scope of work for this project in all other areas of the site, other than the west side of the pond, as shown on the plans.
- e. Sheet C-4.2
 - 1. Section A-A for the Detention Basin Channel has been updated to reflect choking the rip rap with 21AA crushed limestone instead of grouting it in place.
 - 2. The callout for replacing the walkway that is being removed for the proposed storm sewer work has been changed to reflect concrete being used versus asphalt.
- 4. Facility and Operations Building:
 - a. Sheet C-2.0
 - 1. The call out for the curbing along Rankin Drive has been revised to reflect that the curbing will remain in place and not be removed and the curb removal quantity has been updated.
 - 2. The call out related to the utility pole in the southwest corner of the site has been updated to reflect that there is not a guy wire attached to the pole to be removed. The pole will remain in place and need to be protected and supported during construction as needed.
 - 3. The existing striping in the parking spaces located in the north west corner of the site shall be blacked out and the call out has been updated accordingly.
 - 4. A note has been added to the plan sheet to reflect that this site will be a two phased project to allow Owner access and the actual phasing will be determined at a later time.

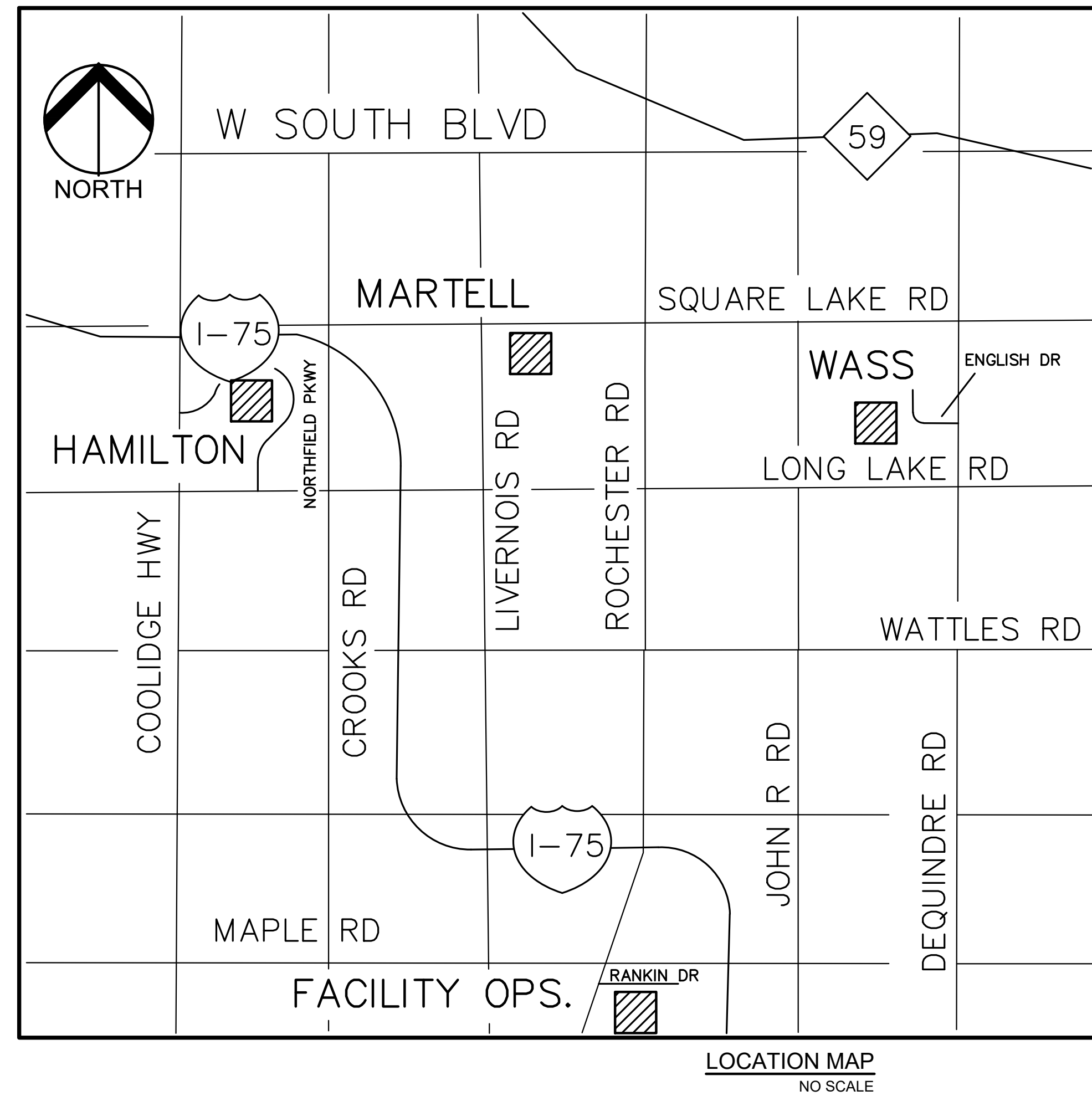
- b. Sheet C-3.0
 - 1. The call outs for a new MDOT Detail M gutter pan along Rankin Drive have been removed. The proposed pavement for the drive approaches will butt up against the existing pavement per the City of Troy Standards including any thickened edges and/or expansion joint or tie bars for the concrete pavement as directed by the city inspector.
 - 2. The estimated quantity for 18" concrete curb and gutter has been updated.
 - 3. The call out to reinstall the guy wire to the utility pole in the southwest corner of the site has been removed.
 - 4. The area pavement adjacent to the northwest corner of the garage has been revised from heavy duty asphalt to heavy duty concrete and the quantity table has been updated accordingly.
 - 5. A note has been added to the plan sheet to reflect that this site will be a two phased project to allow Owner access and the actual phasing will be determined at a later time.
- c. Sheet C-4.0
 - 1. The grades along Rankin Drive have been updated to reflect not removing the existing curb and placing an M Detail gutter pan.
- 5. Wass Elementary:
 - a. Sheet C-2.1
 - 1. The limits of sidewalk removal along the south side of the northwest corner of the building has been reduced to reflect only removing one flag of walk (about 5 feet). There is an entry door along that south façade and the intent is to not remove the walk/stoop in front of the door. The quantity table has been updated accordingly.
 - 2. The northern delivery door along the western side of the northwest corner of the building has an existing metal threshold embedded into the concrete. A call out has been added to remove this metal threshold as part of the project scope.
 - b. Sheet C-2.2
 - 1. The call out for the bike rack has been updated to reflect that the rack is to be removed and disposed of versus salvaged.
 - c. Sheet C-3.1
 - 1. The limits of sidewalk placement along the south side of the northwest corner of the building has been reduced to reflect only replacing one flag of walk (about 5 feet). There is an entry door along that south façade and the intent is to not replace the walk/stoop in front of the door. The quantity table has been updated accordingly.
 - 2. The limits of the proposed frost have been shifted to the north to reflect the location of northern delivery door along the western side of the northwest corner of the building in relationship to the other improvements. A call out has been added to patch the threshold between the proposed frost slab and the door as need from removing the embedded metal threshold.
 - 3. An estimated quantity of 200 linear feet for joint and crack routing and sealing has been added to the Quantity Table.
 - d. Sheet C-3.2
 - 1. The integral curb and walk along the playscape area has been updated to reflect the use of the 4" integral curb along the backside of the walk. The detail has been added to the sheet and the quantity table has been updated to reflect this change.
 - 2. The call out for the salvaged bike rack to be reinstalled has been removed. A call out has been added to patch the holes along the joint between the new and existing walks left from the removed bike rack with epoxy as needed.
 - e. Sheet C-4.1
 - 1. Grades were updated to reflect the change in the area of sidewalk replacement along the south side of the northwest corner of the building.

CONSTRUCTION PLANS

TSD 2022 SITE IMPROVEMENTS - PAVING PROJECTS

TROY, OAKLAND COUNTY, MICHIGAN

PERMIT / APPROVAL SUMMARY		
DATE SUBMITTED	DATE APPROVED	PERMIT / APPROVAL



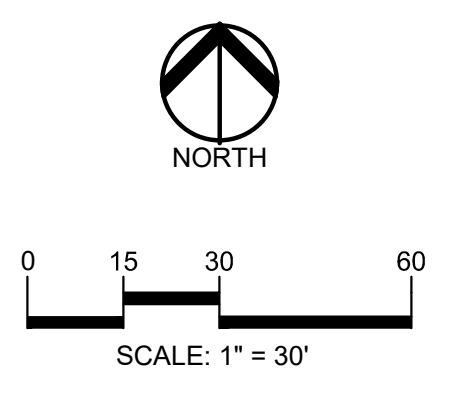
Sheet List Table	
Sheet Number	Sheet Title
C-0.0	COVER SHEET
HAMILTON ELEMENTARY SCHOOL	
C-1.0	TOPOGRAPHIC SURVEY
C-2.0	DEMOLITION PLAN
C-3.0	DIMENSION AND PAVING PLAN
C-4.0	ENGINEERING PLAN
C-5.0	EROSION CONTROL PLAN
MARTELL ELEMENTARY SCHOOL	
C-1.0	OVERALL TOPOGRAPHIC SURVEY
C-1.1	TOPOGRAPHIC SURVEY - WEST
C-1.2	TOPOGRAPHIC SURVEY - EAST
C-1.3	TOPOGRAPHIC SURVEY - SOUTHEAST
C-2.1	DEMOLITION PLAN - WEST
C-2.2	DEMOLITION PLAN - EAST
C-2.3	DEMOLITION PLAN - SOUTHEAST
C-3.0	DIMENSION AND PAVING PLAN
C-4.1	ENGINEERING PLAN - WEST
C-4.2	ENGINEERING PLAN - EAST
C-4.3	ENGINEERING PLAN - SOUTHEAST
C-5.0	EROSION CONTROL PLAN
FACILITIES AND OPERATIONS	
C-1.0	TOPOGRAPHIC SURVEY
C-2.0	DEMOLITION PLAN
C-3.0	DIMENSION AND PAVING PLAN
C-4.0	ENGINEERING PLAN
C-5.0	EROSION CONTROL PLAN
WASS ELEMENTARY SCHOOL	
C-1.0	TOPOGRAPHIC SURVEY- OVERALL
C-1.1	TOPOGRAPHIC SURVEY- SOUTHWEST
C-1.2	TOPOGRAPHIC SURVEY-NORTHWEST
C-1.3	TOPOGRAPHIC SURVEY-EAST
C-2.1	DEMOLITION PLAN-SOUTHWEST
C-2.2	DEMOLITION PLAN-NORTHWEST
C-2.3	DEMOLITION PLAN-EAST
C-3.1	DIMENSION AND PAVING PLAN-SOUTHWEST
C-3.2	DIMENSION AND PAVING PLAN- NORTHWEST
C-3.3	DIMENSION AND PAVING PLAN-EAST
C-4.1	ENGINEERING PLAN-SOUTHWEST
C-4.2	ENGINEERING PLAN-NORTHWEST
C-4.3	ENGINEERING PLAN-EAST
C-5.1	EROSION CONTROL PLAN-SOUTHWEST
C-5.2	EROSION CONTROL PLAN-NORTHWEST
C-5.3	EROSION CONTROL PLAN-EAST
C-9.0	NOTES AND DETAILS
C-9.1	DETAILS

DESIGN TEAM

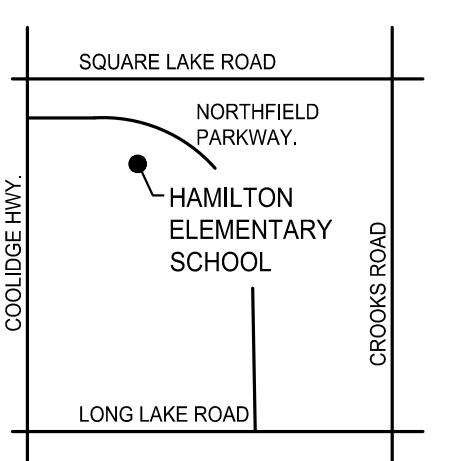
<p>OWNER</p> <p>TROY SCHOOL DISTRICT 1140 RANKIN TROY, MI 48063 CONTACT: ROB CARSON PHONE: 248.923.4067 EMAIL: RCARSON@TROY.K12.MI.US</p>	<p>CIVIL ENGINEER</p> <p>PEA GROUP 2430 ROCHESTER COURT, STE. 100 TROY, MI 48063-1872 CONTACT: ROBERT S. ROCHON, P.E. PHONE: 844.813.2949 EMAIL: RROCHON@PEAGROUP.COM</p>
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REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE/OUT TO BID	1/6/2022
ADDENDUM 1	1/18/2022



CAUTION!!
 THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
TROY SCHOOLS
 1140 RANKIN
 TROY, MI 48063

PROJECT TITLE
HAMILTON ELEMENTARY SCHOOL
 5625 NORTHFIELD PARKWAY, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
T-ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
 JANUARY 6, 2022

DRAWING TITLE
DEMOLITION PLAN

PEA JOB NO. 2021-0584

P.M. RR
 DN. KMM
 DES. JDS

DRAWING NUMBER:
C-2.0

DEMOLITION QUANTITIES:

REMOVE CURB	1,065 LF
REMOVE ASPHALT	61,451 SF
REMOVE CONCRETE	9,658 SF
SAWCUT PAVEMENT	334 LF
MILL ASPHALT PAVEMENT	1,779 SF
REMOVE AND SALVAGE FENCE	158 LF
REMOVE AND SALVAGE BIKE RACK	1 EA.

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊙ MONUMENT FOUND	⊗ MONUMENT SET	R RECORDED
⊙ NAIL FOUND	⊗ NAIL & CAP SET	M MEASURED
⊙ NAIL & CAP SET		C CALCULATED

EXISTING

-OH-ELEC-	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
-UG-CATV-	UNDERGROUND CABLE TV, CATV PEDESTAL
-UG-PHONE-	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
-UG-ELEC-	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
	GAS MAIN, VALVE & GAS LINE MARKER
	WATERMAIN, HYD., GATE VALVE, TAPPING BLEWIE & VALVE
	SANITARY SEWER, CLEANOUT & MANHOLE
	STORM SEWER, CLEANOUT & MANHOLE
	COMBINED SEWER & MANHOLE
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
	POST INDICATOR VALVE
	WATER VALVE BODY/FIRANT VALVE BOX, SERVICE SHUTOFF
	MALIBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
	UNIDENTIFIED STRUCTURE
	SPOT ELEVATION
	CONTOUR LINE
	FENCE
	GUARD RAIL
	STREET LIGHT
	SIGN
	CONC. CONCRETE
	ASPH. ASPHALT
	GRAVEL GRAVEL SHOULDER
	WETLAND

DEMOLITION LEGEND:

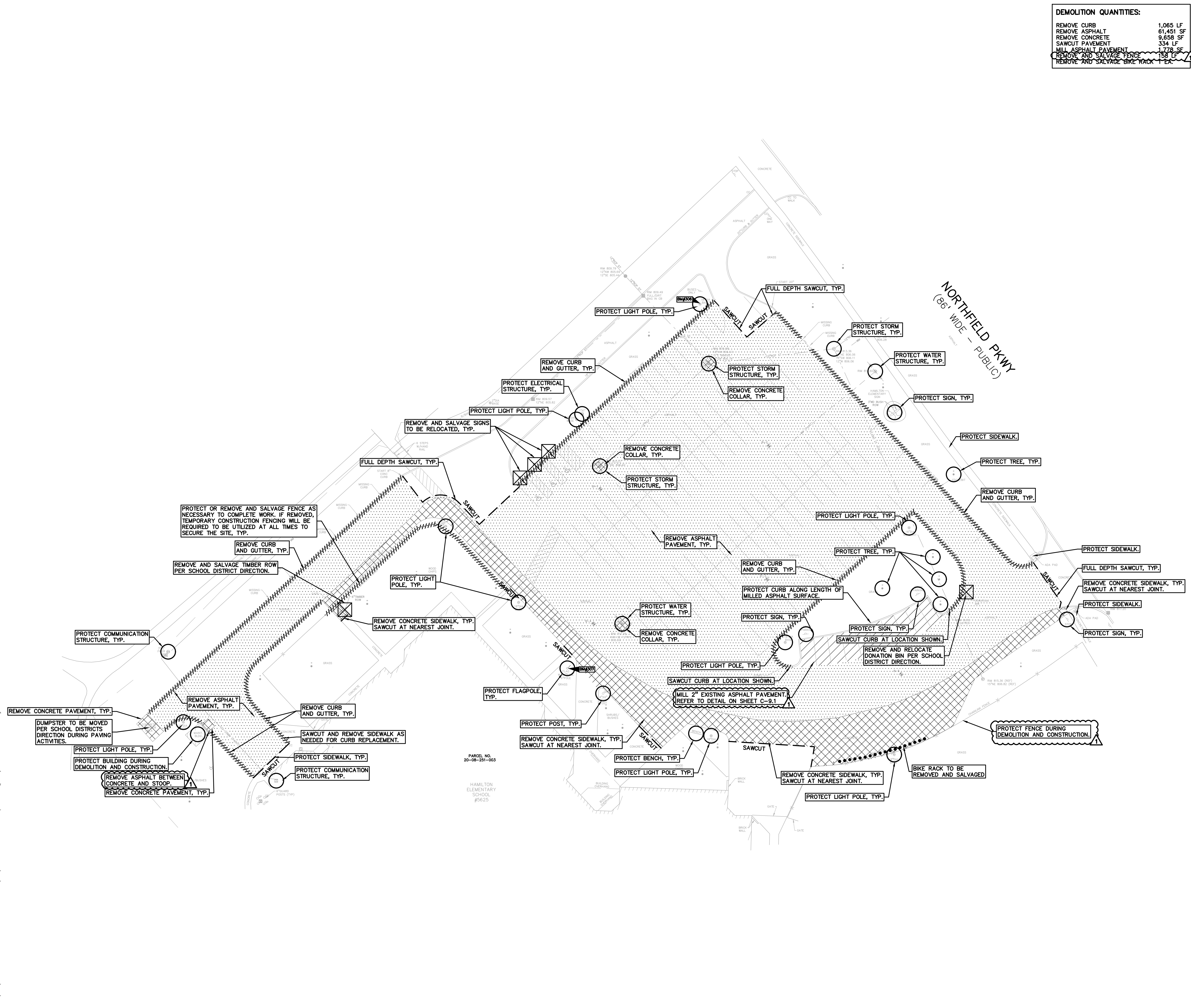
ITEM TO BE PROTECTED	
ITEM TO BE REMOVED	
CURB/FENCE REMOVAL	
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	
ASPHALT MILLING	
ASPHALT REMOVAL	
SAWCUT LINE	

NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.

GENERAL DEMOLITION NOTES:

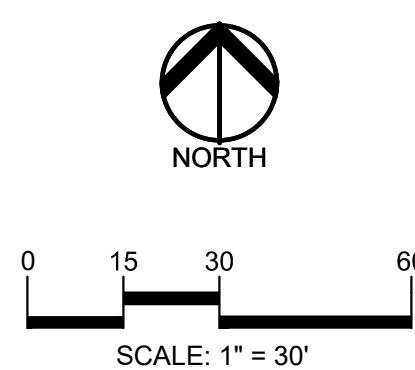
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
 - ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
 - STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
 - REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
 - THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
 - ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
 - REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.



LEGEND

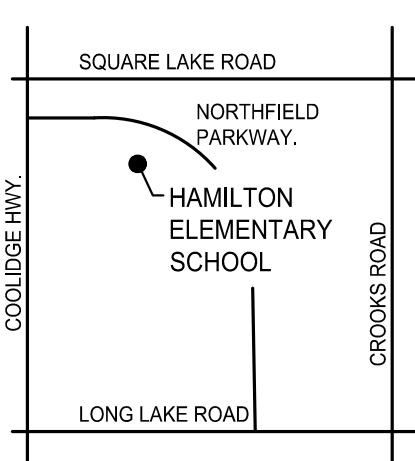
● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ R. RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ M. MEASURED
⊗ NAIL & CAP SET		⊙ C. CALCULATED

EXISTING	PROPOSED
—OH—ELEC—W—	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
—UG—CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
⊗ UG—PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
⊗ UG—ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
⊗ UG—GAS—	GAS MAN. VALVE & GAS LINE MANHOLE
⊗ W—WATER—	WATERMAN. HYD. GATE VALVE, TAPPING BLEEDIE & VALVE
⊗ S—SEWER—	SANITARY SEWER, CLEANOUT & MANHOLE
⊗ C—COMB.—	COMBINED SEWER & MANHOLE
⊗ S—SQUARE—	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
⊗ R—ROST—	POST INDICATOR VALVE
⊗ W—WATER—	WATER VALVE BODY/DRYANT VALVE BOX, SERVICE SHUTOFF
⊗ M—MAIL—	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
⊗ U—UNID.—	UNIDENTIFIED STRUCTURE
⊗ S—SPOT—	SPOT ELEVATION
—	CONTOUR LINE
—	FENCE
—	GUARD RAIL
—	STREET LIGHT
—	SIGN
CONC.	CONCRETE
ASPH.	ASPHALT
GRAVEL	GRAVEL SHOULDER
WETLAND	WETLAND
STD. DUTY	STD. DUTY ONLY
HEAVY DUTY	HEAVY DUTY ONLY
HEAVY DEEP	HEAVY DEEP STRENGTH



811 Know what's below. Call before you dig.

CAUTION!
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CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
HAMILTON ELEMENTARY SCHOOL
5625 NORTHFIELD PARKWAY, TROY, MI

REVISIONS	DATE
OUT TO BID	01/06/2022
T - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DIMENSION AND PAVING PLAN

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS

DRAWING NUMBER:

C-3.0

GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS.
- CONTRACTOR TO ADDITIONAL MILL AND/OR OVERLAY THE WEARING COURSE TO PROVIDE A UNIFORM 1 1/2" THICKNESS OF WEARING COURSE AT TIME OF PLACEMENT. THIS SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE TOTAL BID PRICE.

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP "TYPE D" ⊙

SIDEWALK RAMP "TYPE F" ⊙

SIDEWALK RAMP "TYPE X" ⊙ (CURB CUT ONLY)

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

SIGN LEGEND:

"BARRIER FREE PARKING" SIGN ⊙

"VAN ACCESSIBLE" SIGN ⊙

REFER TO DETAIL SHEET FOR SIGN DETAILS

CONSTRUCTION NOTES:

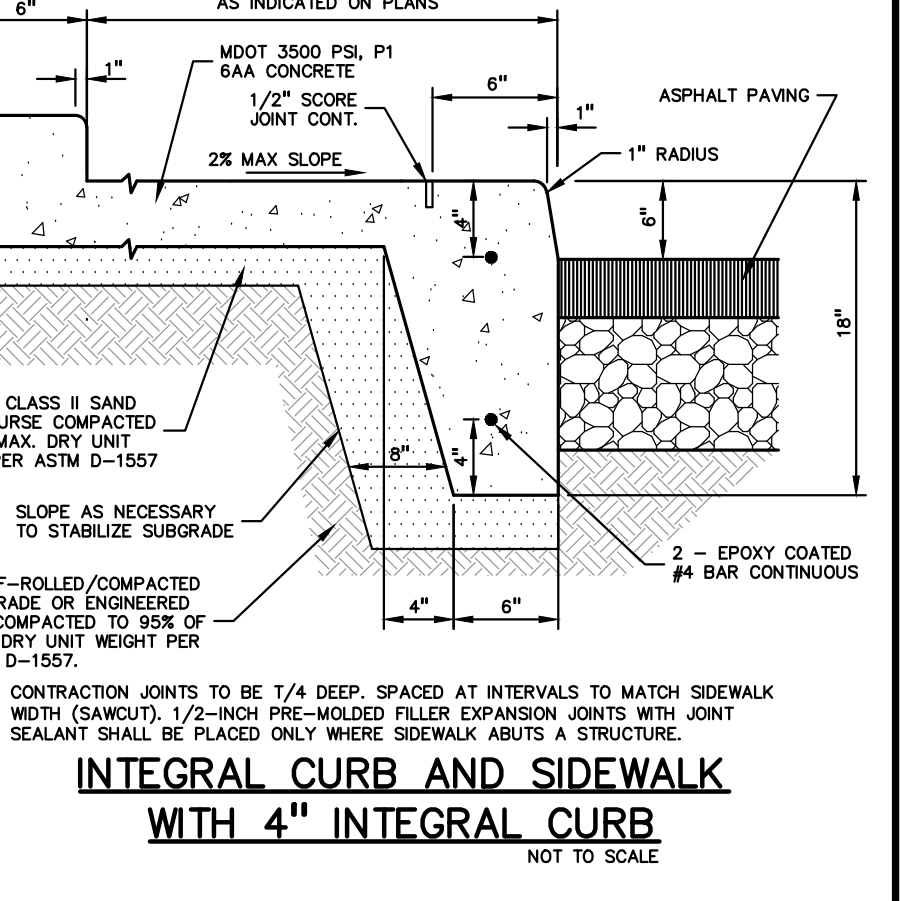
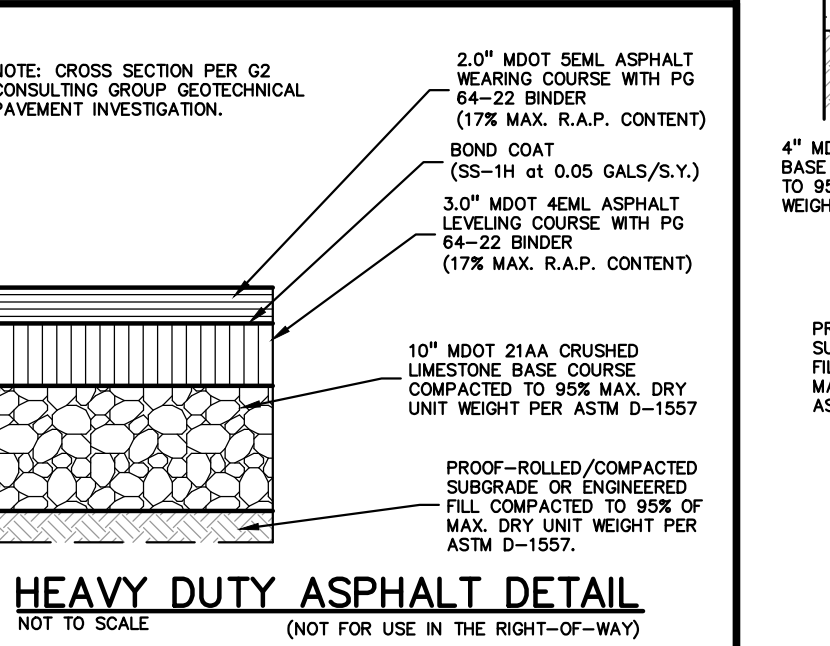
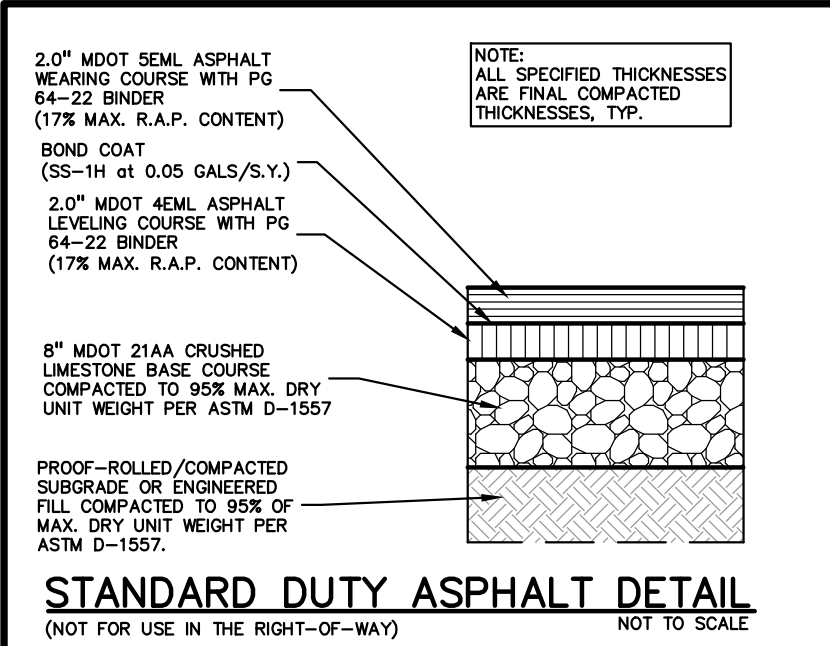
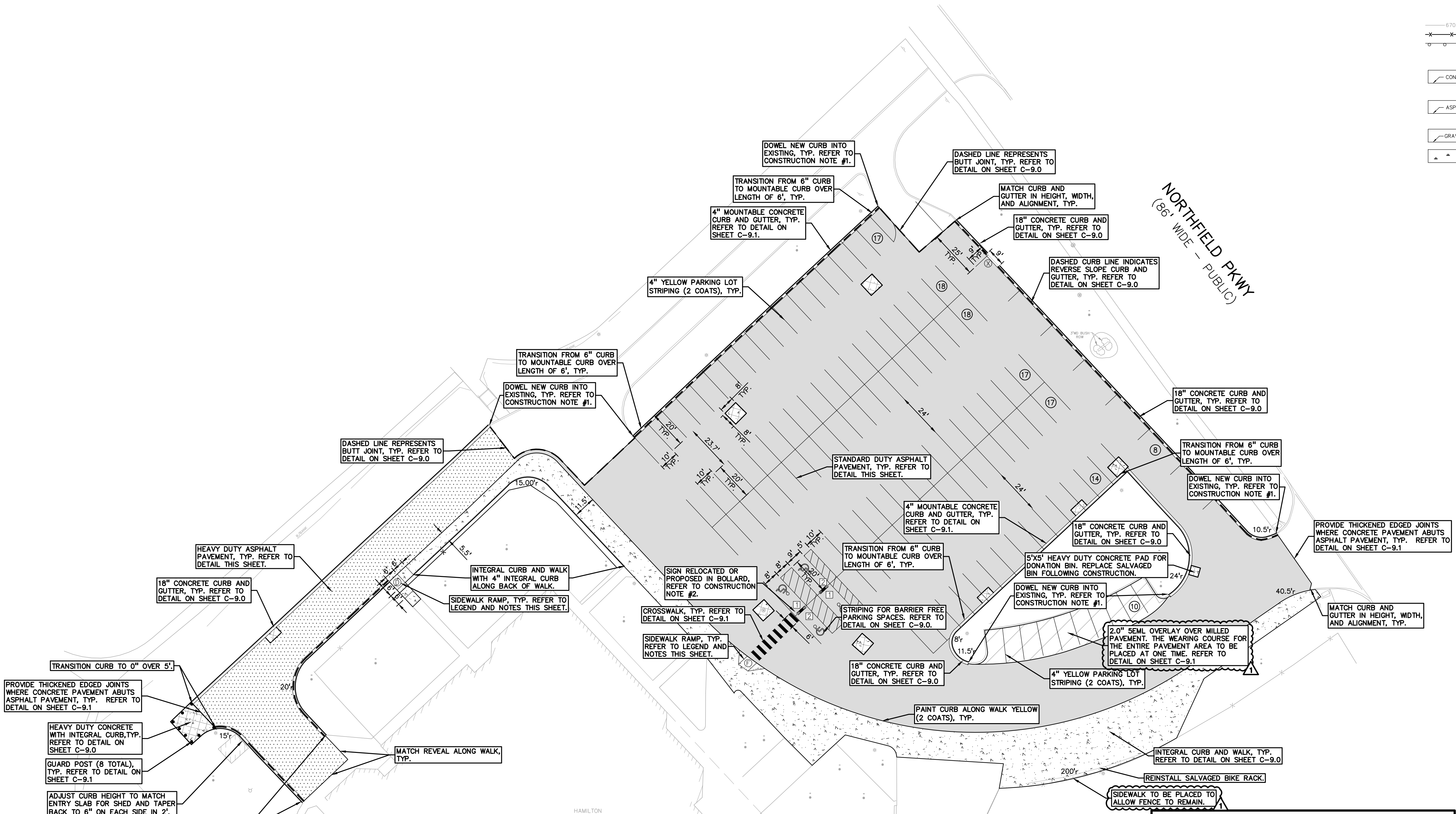
- DOWEL INTO EXISTING CURB AND GUTTER 9" WITH #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
- EXISTING SIGNS THAT CAN BE SALVAGED SHALL BE RE-USED AND NEW SIGNS SHALL BE PROVIDED AS NEEDED.

PAVING QUANTITIES:

18" CONCRETE CURB AND GUTTER	723 LF
INTEGRAL CURB AND WALK	406 LF
INTEGRAL CURB AND WALK WITH 4" INTEGRAL CURB	169 LF
4" MOUNTABLE CURB AND GUTTER	298 LF
4" ASPHALT PAVEMENT	53,136 SF
8" 21AA AGGREGATE	53,136 SF
5" ASPHALT PAVEMENT	6,511 SF
10" 21AA AGGREGATE	6,511 SF
BUTT JOINT	158 LF
CONCRETE SIDEWALK	9,374 SF
HEAVY DUTY CONCRETE	281 SF
MILL AND OVERLAY	1,778 SF
STRIPED PARKING SPACE	115 CA.
STRIPED HANDICAP SPACE AND SYMBOL	4 EA.
CROSSWALK STRIPING	213 SF
YELLOW CURB PAINTING	495 LF
CONCRETE COLLAR	8 EA.
GUARD POST	8 EA.
RELOCATE/PROPOSED SIGN IN BOLLARD	4 EA.
REPLACE FENCE	287 LF
SUBGRADE UNDERCUTS	250 CYD

NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- ALL PROPOSED ADA RAMPS SHALL HAVE TRUNCATED DOMES PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
- THE QUANTITY FOR "SUBGRADE UNDERCUT" ON SHEET C-3.0 FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.
- A THICKENED EDGE OF ASPHALT PER THE DETAIL ON SHEET C-9.1 OF THE PLANS SHALL BE LOCATED WHERE CALLED FOR IN THE PLAN. BIDDERS SHALL INCREASE THE QUANTITIES FOR THIS ITEM ACCORDINGLY IN THE BASE BID.



NOTE:
CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.

S:\PROJECTS\2021\0584-2022\150 SITE IMPROVEMENT PROJECTS\CONSTRUCTION - PEA PARKWAY\HAMILTON\CONSTRUCTION-HAMILTON 21-0584.rvt

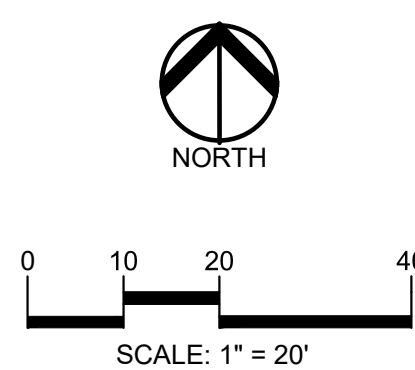
- GENERAL DEMOLITION NOTES:**
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
 - ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
 - STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
 - REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
 - THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
 - ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
 - REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

LEGEND

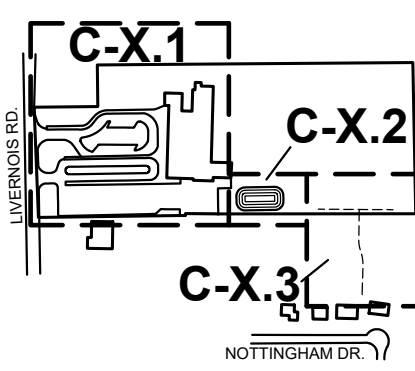
● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	R RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	M MEASURED
⊗ NAIL & CAP SET		C CALCULATED

EXISTING

- OH-ELEC (W/O) ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC (W/O) ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- UG-ELEC (W/O) GAS MAN. VALVE & GAS LINE MARKER
- WATERMAN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MARBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARDRAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
- WETLAND



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY AS APPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
MARTELL ELEMENTARY SCHOOL
5666 LIVERNOIS ROAD, TROY, MI

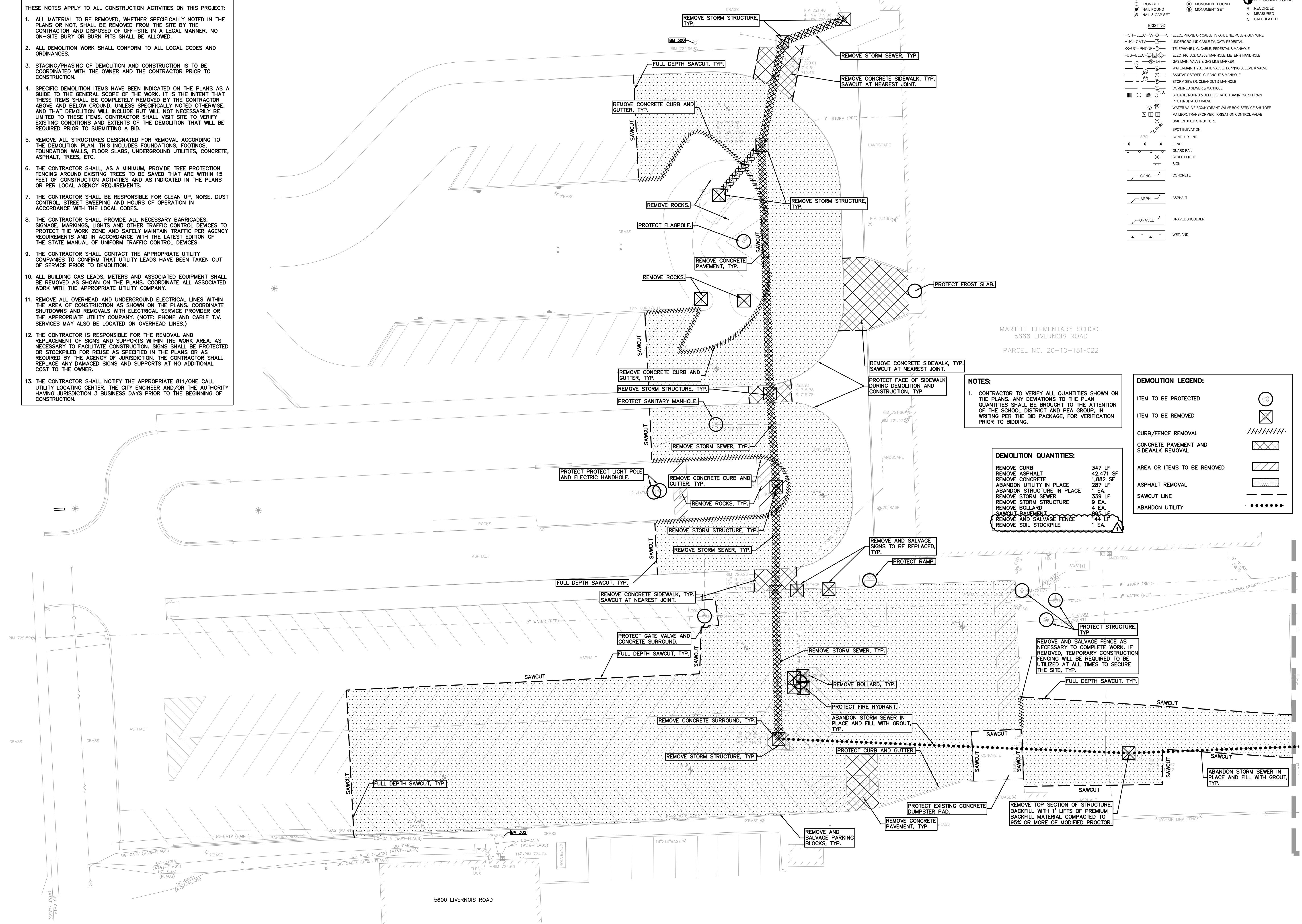
REVISIONS

OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022
DRAWING TITLE
DEMOLITION PLAN - WEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

NOT FOR CONSTRUCTION **C-2.1**



NOTES:
1. CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.

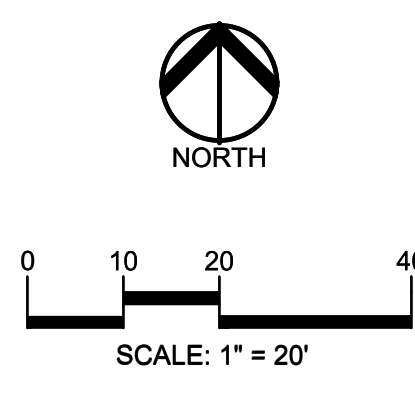
DEMOLITION QUANTITIES:

REMOVE CURB	347 LF
REMOVE ASPHALT	42,471 SF
REMOVE CONCRETE	1,892 SF
ABANDON UTILITY IN PLACE	287 LF
ABANDON STRUCTURE IN PLACE	1 EA.
REMOVE STORM SEWER	339 LF
REMOVE STORM STRUCTURE	9 EA.
REMOVE BOLLARD	4 EA.
SAWCUT PAVEMENT	895 LF
REMOVE AND SALVAGE FENCE	144 LF
REMOVE SOIL STOCKPILE	1 EA.

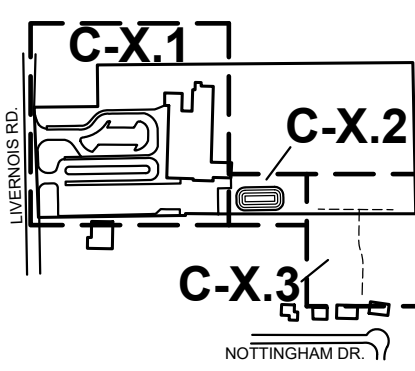
DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊙
ITEM TO BE REMOVED	⊗
CURB/FENCE REMOVAL	
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	XXXXX
AREA OR ITEMS TO BE REMOVED	▨
ASPHALT REMOVAL	▨
SAWCUT LINE	---
ABANDON UTILITY

S:\PROJECTS\2021-0584-2022 SITE IMPROVEMENT PROJECTS\CONSTRUCTION - PEA PARKS\2 MARTELL\2021-0584-DEM-MARTELL_21-0584.dwg



CAUTION!!
 THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
TROY SCHOOLS
 1140 RANKIN
 TROY, MI 48063

PROJECT TITLE
MARTELL ELEMENTARY SCHOOL
 566 LIVERNOIS ROAD, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
 JANUARY 6, 2022

DRAWING TITLE
DEMOLITION PLAN - EAST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

GENERAL DEMOLITION NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
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LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	R RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	M MEASURED
⊗ NAIL & CAP SET		C CALCULATED

EXISTING

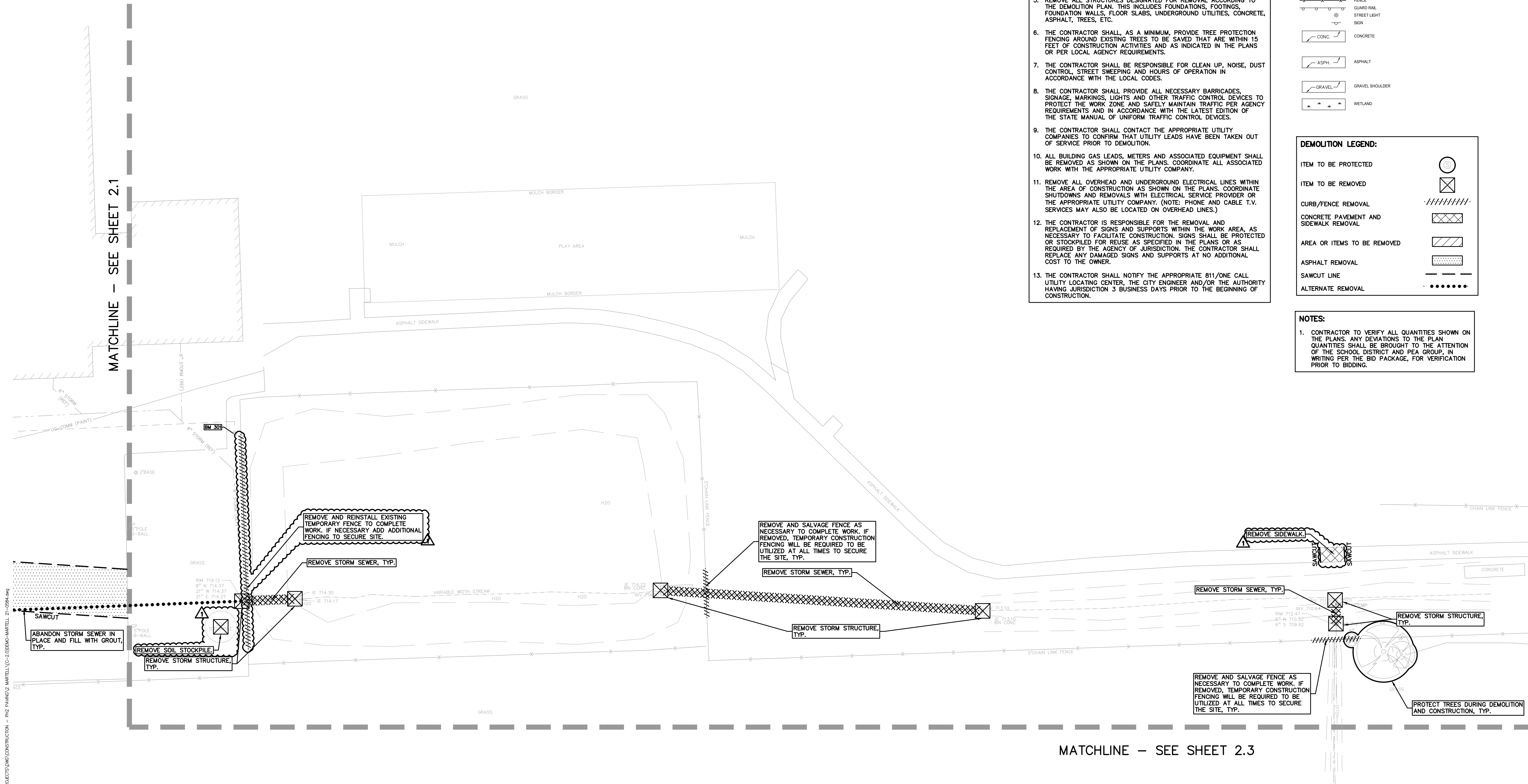
—OH-ELEC—	ELEC. PHONE OR CABLE TV OH LINE, POLE & GUY WIRE
—UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS VALVE & GAS LINE MARKER—	GAS VALVE & GAS LINE MARKER
—WATERMAN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE—	WATERMAN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
—SANITARY SEWER, CLEANOUT & MANHOLE—	SANITARY SEWER, CLEANOUT & MANHOLE
—STORM SEWER, CLEANOUT & MANHOLE—	STORM SEWER, CLEANOUT & MANHOLE
—COMBINED SEWER & MANHOLE—	COMBINED SEWER & MANHOLE
—SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN—	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
—POST INDICATOR VALVE—	POST INDICATOR VALVE
—WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF—	WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
—MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE—	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
—UNIDENTIFIED STRUCTURE—	UNIDENTIFIED STRUCTURE
—SPOT ELEVATION—	SPOT ELEVATION
—CONTOUR LINE—	CONTOUR LINE
—FENCE—	FENCE
—GUARD RAIL—	GUARD RAIL
—STREET LIGHT—	STREET LIGHT
—SIGN—	SIGN
—CONC.—	CONCRETE
—ASPH.—	ASPHALT
—GRAVEL—	GRAVEL SHOULDER
—WETLAND—	WETLAND

DEMOLITION LEGEND:

ITEM TO BE PROTECTED	⊙
ITEM TO BE REMOVED	⊗
CURB/FENCE REMOVAL	⊗
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	⊗
AREA OR ITEMS TO BE REMOVED	⊗
ASPHALT REMOVAL	⊗
SAWCUT LINE	⊗
ALTERNATE REMOVAL	⊗

NOTES:

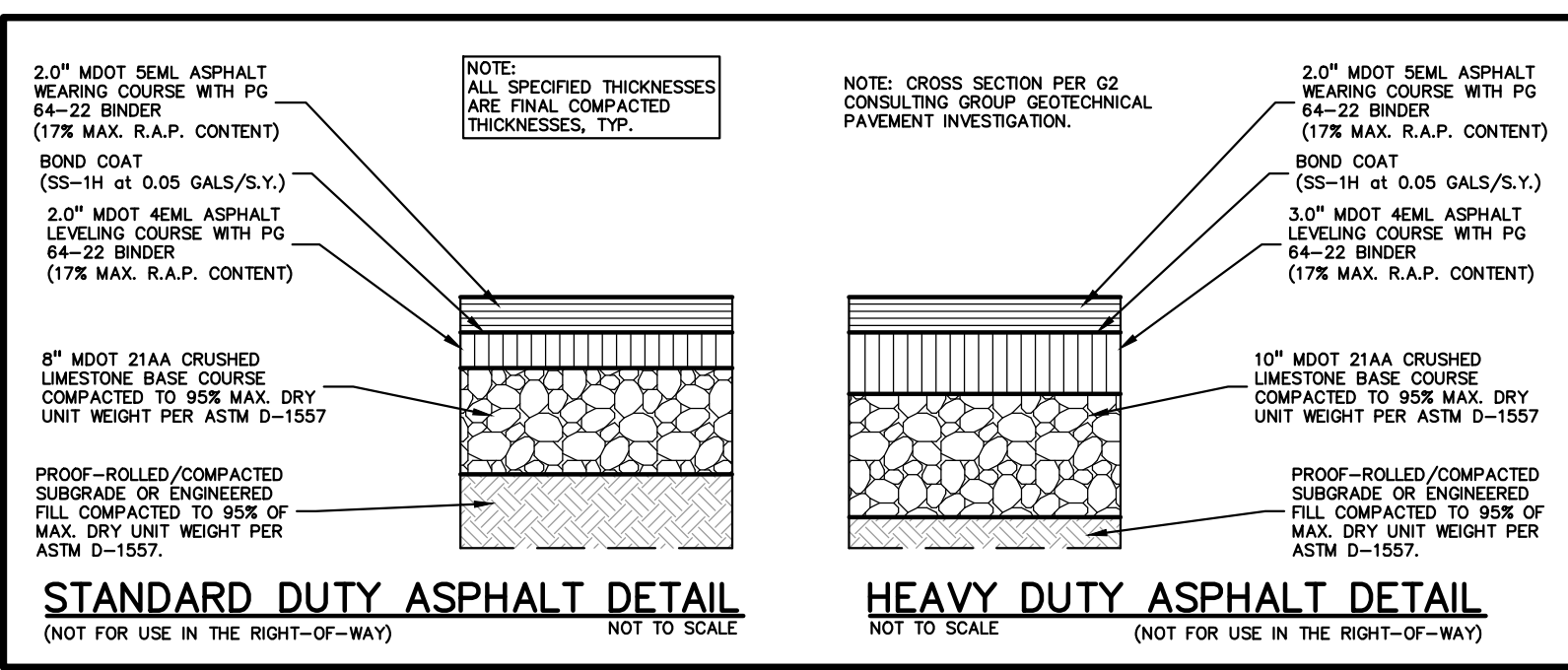
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NOT FOR CONSTRUCTION

C-2.2

S:\PROJECTS\2021\0201-0584_2022_TSD SITE IMPROVEMENT PROJECTS\IMP\CONSTRUCTION - P&E\PAWS&Z\MARTELL\C-2\DEMOM-MARTELL_21-0584.dwg



GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS.

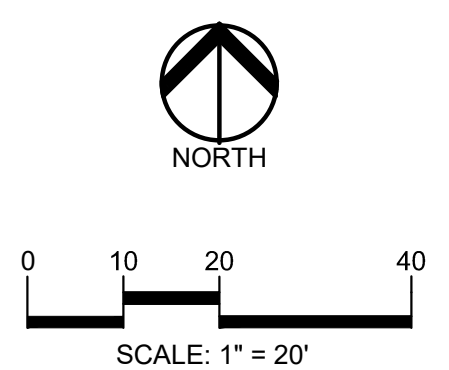
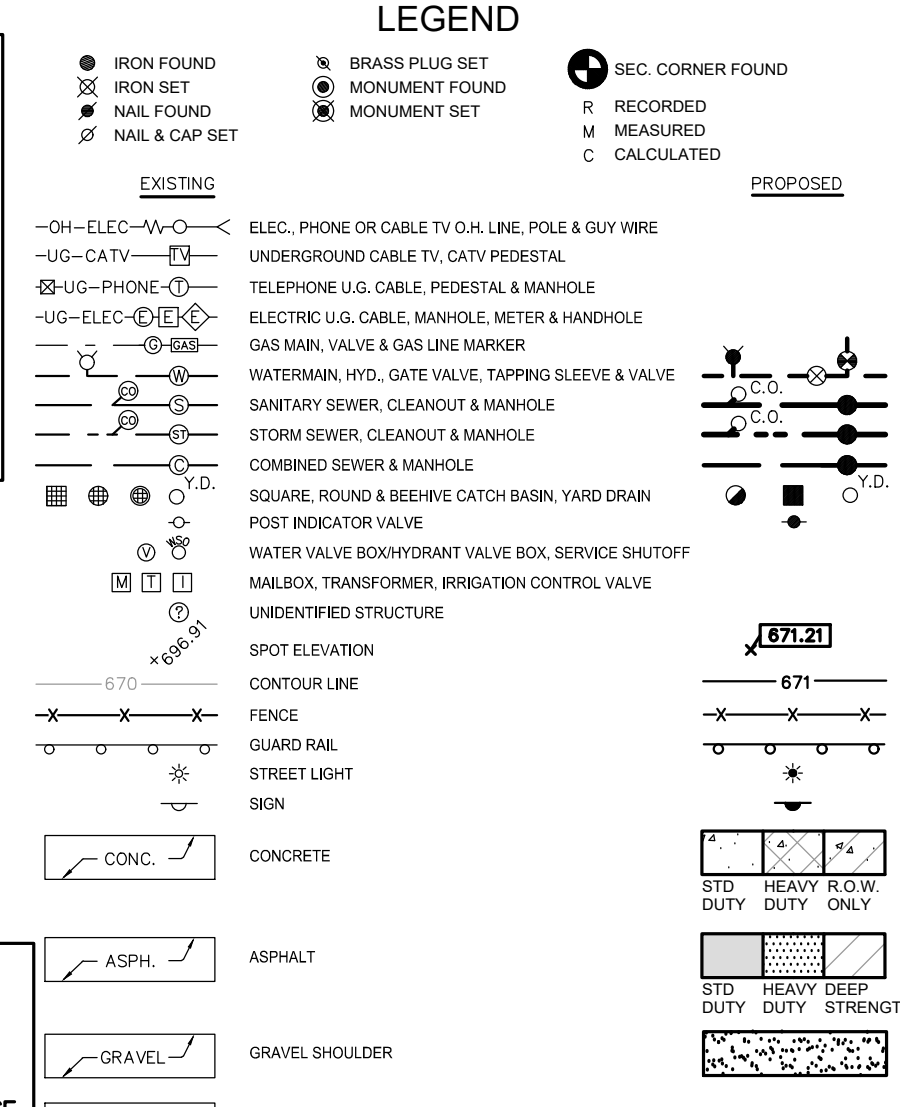
CONSTRUCTION NOTES:

- DOWEL INTO EXISTING CURB AND GUTTER 9" WITH #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
- EXISTING SIGNS THAT CAN BE SALVAGED SHALL BE RE-USED AND NEW SIGNS SHALL BE PROVIDED AS NEEDED.

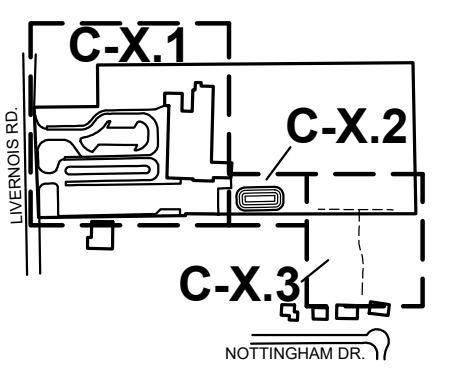
PAVING QUANTITIES:

18" CONCRETE CURB AND GUTTER	370 LF
CONCRETE SIDEWALK	962 SF
INTEGRAL CURB AND WALK	40 LF
4" ASPHALT PAVEMENT	21,225 SF
8" 21AA AGGREGATE	21,225 SF
5" ASPHALT PAVEMENT	20,813 SF
10" 21AA AGGREGATE	20,813 SF
BUTT JOINT	660 LF
SEAL COAT	17,483 SF
JOINT AND CRACK ROUTING AND SEALING	2,000 LF
STRIPED PARKING SPACE	107 EA
STRIPED HANDICAP SPACE AND SYMBOL	2 EA
STRIPED CROSS HATCHING	2,440 SF
CURB PAINTING	306 LF
CONCRETE COLLAR	5 EA
6" GUARD POST	4 EA
RELOCATE/PROPOSED SIGN IN BOLLARD	2 EA
SUBGRADE UNDERCUT	250 CYD

MARTELL ELEMENTARY SCHOOL
5666 LIVERNOIS ROAD
PARCEL NO. 20-10-151-022



CAUTION!
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CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
MARTELL ELEMENTARY SCHOOL
5666 LIVERNOIS ROAD, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
T - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DIMENSION AND PAVING PLAN

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

NOTE:
CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC

STORM STRUCTURES	
MH 5	(4' DIA./2' SUMP) RIM = 719.12 24" W 714.23 24" E 714.23
CB 6	(4' DIA./2' SUMP) RIM = 719.40 24" W 714.62 24" E 714.62
CB 7	(6" DIA./2' SUMP) RIM = 719.80 24" N 715.12 24" E 715.12
CB 8	(5' DIA./2' SUMP) RIM = 720.25 24" NW 715.22 10" NE 715.22 24" S 715.22
MH 9	(5' DIA./0' SUMP) RIM = 720.55 24" NE 715.25 24" S 715.25
CB 10	(3' DIA./2' SUMP) RIM = 719.95 24" N 715.29 24" SW 715.29

STORM STRUCTURES	
MH 11	(4' DIA./0' SUMP) RIM = 720.93 18" N 715.74 24" S 715.34
CB 12	(4' DIA./2' SUMP) RIM = 720.00 18" N 715.81 8" NW 716.98 18" S 715.81
CB 13	(5' DIA./2' SUMP) RIM = 720.25 10" E 716.51 6" N 716.78 18" S 715.98
CB 14	(4' DIA./2' SUMP) RIM = 721.21 6" E 717.39 6" S 717.39
CB 15	(4' DIA./2' SUMP) RIM = 721.48 4" NW 719.98 6" E 717.86
CB 16	(2' DIA./2' SUMP) RIM = 719.80 8" SE 717.20
MH 18	(2' DIA./0' SUMP) RIM = 713.29 6" W 711.80 6" E 711.80 6" S 711.80

END SECTIONS	
1	EX. END SECTION 12" 710.42
2	END SECTION 8" 713.56
3	END SECTION 8" 714.22
4	END SECTION 24" 714.15
17	END SECTION 6" 711.60

LEGEND

EXISTING

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R. RECORDED
- M. MEASURED
- C. CALCULATED

PROPOSED

- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UNDERGROUND CABLE TV, CATV PEDESTAL
- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- ELECTRIC U.G. CABLE, MANHOLE, METER & MANHOLE
- GAS MAIN, VALVE & GAS LINE MARKER
- WATER MAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARDRAIL
- STREET LIGHT
- SIEN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL SHOULDER
- WETLAND
- 310 HEAVY FLOW DUTY ONLY
- 310 HEAVY DEEP DUTY DUTY STRENGTH

CONSTRUCTION NOTES:

- TOP OF PAVEMENT ELEVATION SHALL BE 6" BELOW THE TOP CURB OF EXISTING CURB WALK ALONG BUILDING. PROPOSED GRADES ALONG THIS CURBING REFLECT THIS PROPOSED GRADING. CONTRACTOR TO VERIFY AND ADJUST PAVEMENT GRADES AS NEEDED.

ENGINEERING QUANTITIES:

4" HDPE PERF. UNDERDRAIN	407 LF
6" PVC SDR 26	103 LF
8" PVC SDR 26	154 LF
18" RCP CL-IV PIPE	116 LF
24" RCP CL-IV PIPE	321 LF
2' CATCH BASIN	1 EA.
2' MANHOLE	1 EA.
4' CATCH BASIN	4 EA.
4' MANHOLE	2 EA.
5' CATCH BASIN	4 EA.
5' MANHOLE	1 EA.
6" END SECTION	2 EA.
24" END SECTION	1 EA.
REPLACE FENCE	80 SY.
ADJUST HYDRANT ASSEMBLY	1 EA.
ADJUST/RECONSTRUCT SANITARY STRUCTURE	1 EA.
MUCK DETENTION POND	537 CY

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

NOTE:

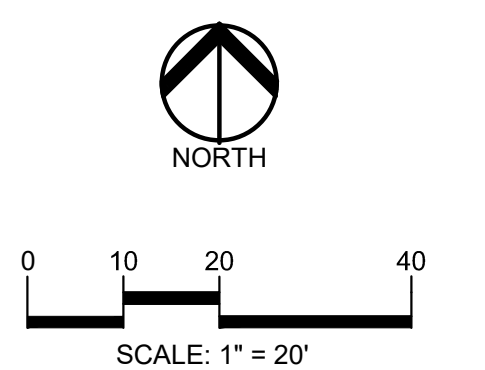
- PER THE SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE PER THE PROJECT SPECIFICATIONS, PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL BOARD OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS, ANY DEVIATION TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- DISTRICT TO REVIEW SITE IN THE SPRING TO DETERMINE ANY GRASS AREAS AND IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION INCLUDING INGRESS/EGRESS AREAS TO THE PONDS. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DAMAGED AREAS AND IRRIGATION SYSTEM TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE DISTRICT.

SYMBOLS: GRADING

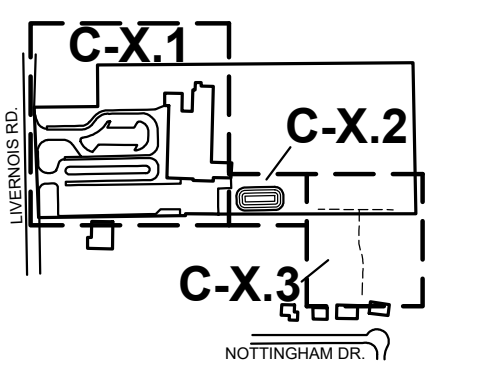
PROPOSED SPOT ELEVATION:
TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE

ABBREVIATIONS:
T/C = TOP OF CURB
G = GUTTER GRADE
T/P = TOP OF PAVEMENT
T/S = TOP OF SIDEWALK
T/W = TOP OF WALL
B/W = BOTTOM OF WALL
F.G. = FINISH GRADE
RIM = RIM ELEVATION



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE TO THE COMPLETENESS ON ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
MARTELL ELEMENTARY SCHOOL
5666 LIVERNOIS ROAD, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

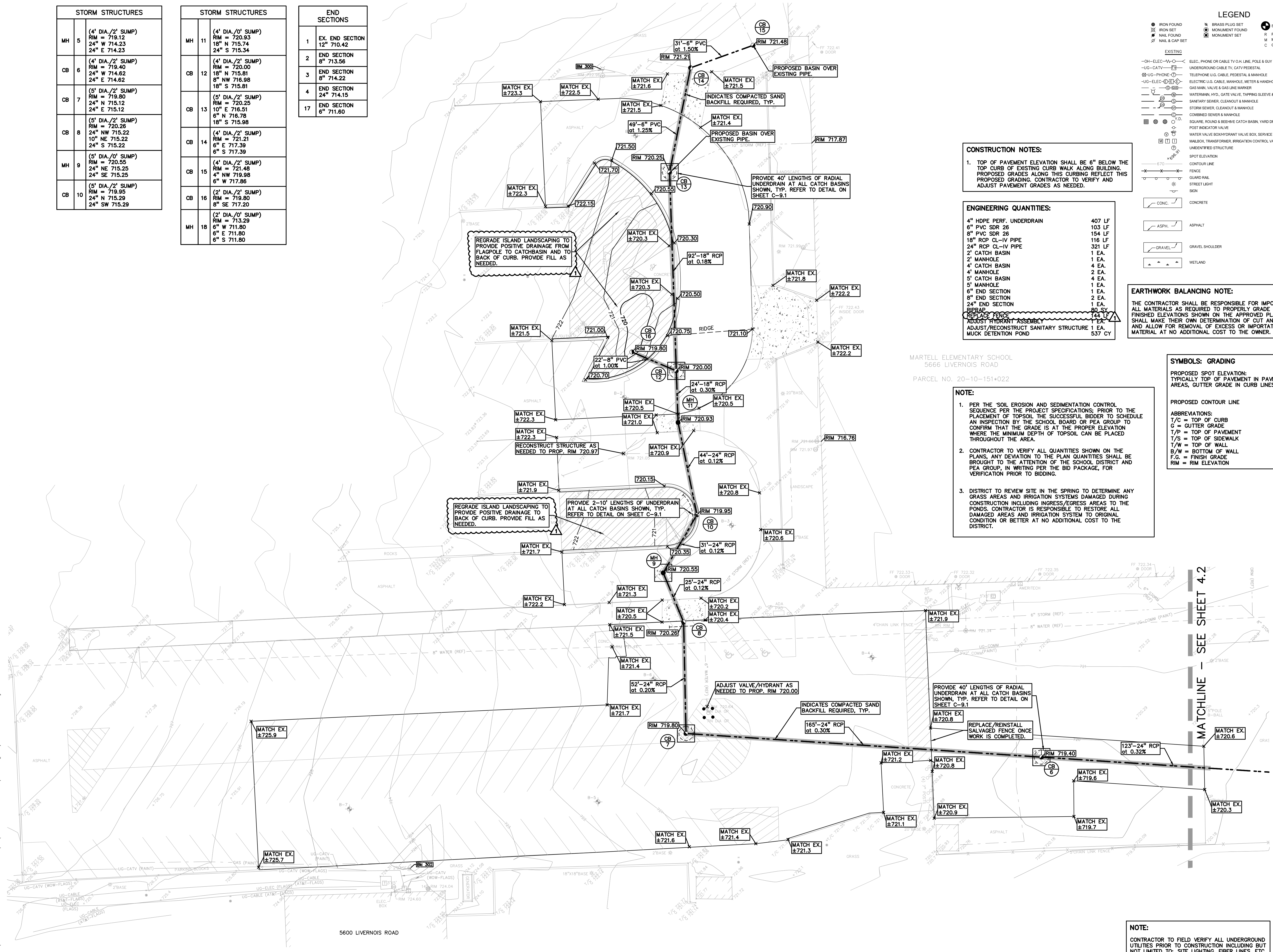
DRAWING TITLE
ENGINEERING PLAN - WEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

NOTE:
CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC

NOT FOR CONSTRUCTION

C-4.1



S:\PROJECTS\2021\0584-0584-2022 STD SITE IMPROVEMENT PROJECTS\CONSTRUCTION - PEA\PAVING\2 MARTELL\C-4\ENGINEERING\21-0584.dwg

STORM STRUCTURES	
MH 5	(4' DIA./2' SUMP) RIM = 719.12 24" W 714.23 24" E 714.23
CB 6	(4' DIA./2' SUMP) RIM = 719.40 24" W 714.62 24" E 714.62
CB 7	(5' DIA./2' SUMP) RIM = 719.80 24" N 715.12 24" E 715.12
CB 8	(5' DIA./2' SUMP) RIM = 720.26 24" NW 715.22 10" NE 715.22 24" S 715.22
MH 9	(5' DIA./0' SUMP) RIM = 720.55 24" NE 715.25 24" SE 715.25
CB 10	(5' DIA./2' SUMP) RIM = 719.95 24" N 715.29 24" SW 715.29

STORM STRUCTURES	
MH 11	(4' DIA./0' SUMP) RIM = 720.93 18" N 715.74 24" S 715.34
CB 12	(4' DIA./2' SUMP) RIM = 720.00 18" N 715.81 8" NW 716.98 18" S 715.81
CB 13	(5' DIA./2' SUMP) RIM = 720.25 10" E 716.51 8" N 716.78 18" S 715.98
CB 14	(4' DIA./2' SUMP) RIM = 721.48 8" E 717.39 6" S 717.39
CB 15	(4' DIA./2' SUMP) RIM = 721.21 8" E 717.39 6" S 717.39
CB 16	(2' DIA./2' SUMP) RIM = 719.80 8" SE 717.20
MH 18	(2' DIA./0' SUMP) RIM = 713.29 6" W 711.80 6" E 711.80 6" S 711.80

END SECTIONS	
1	EX. END SECTION 12" 710.42
2	END SECTION 8" 713.56
3	END SECTION 8" 714.22
4	END SECTION 24" 714.15
17	END SECTION 6" 711.60

LEGEND

EXISTING

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R. RECORDED
- M. MEASURED
- C. CALCULATED

PROPOSED

- OH-ELEC-W-W-ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV-UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE-TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC-ELECTRIC U.G. CABLE, MANHOLE, METER & MANHOLE
- GAS-MARK-VALVE & GAS LINE MARKER
- WATERMAN, HYD. GATE VALVE, TAPPING BLEWIE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
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- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
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- 310 HEAVY FLOW DUTY DUTY ONLY
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811 Know what's below. Call before you dig.

CAUTION!!
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CLIENT
TROY SCHOOLS
1140 RANKIN TROY, MI 48063

PROJECT TITLE
MARTELL ELEMENTARY SCHOOL
588 LIVERNOIS ROAD, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
ENGINEERING PLAN - EAST

PEA JOB NO. 2021-0584
P.M. RR
DN. KMM
DES. JDS
DRAWING NUMBER: C-4.2

NOTE:

- PER THE SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE PER THE PROJECT SPECIFICATIONS, PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL BOARD OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS, ANY DEVIATION TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- DISTRICT TO REVIEW SITE IN THE SPRING TO DETERMINE ANY GRASS AREAS AND IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION INCLUDING INGRESS/EGRESS AREAS TO THE PONDS. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DAMAGED AREAS AND IRRIGATION SYSTEM TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE DISTRICT.

SYMBOLS: GRADING

PROPOSED SPOT ELEVATION:
TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE — 722 —

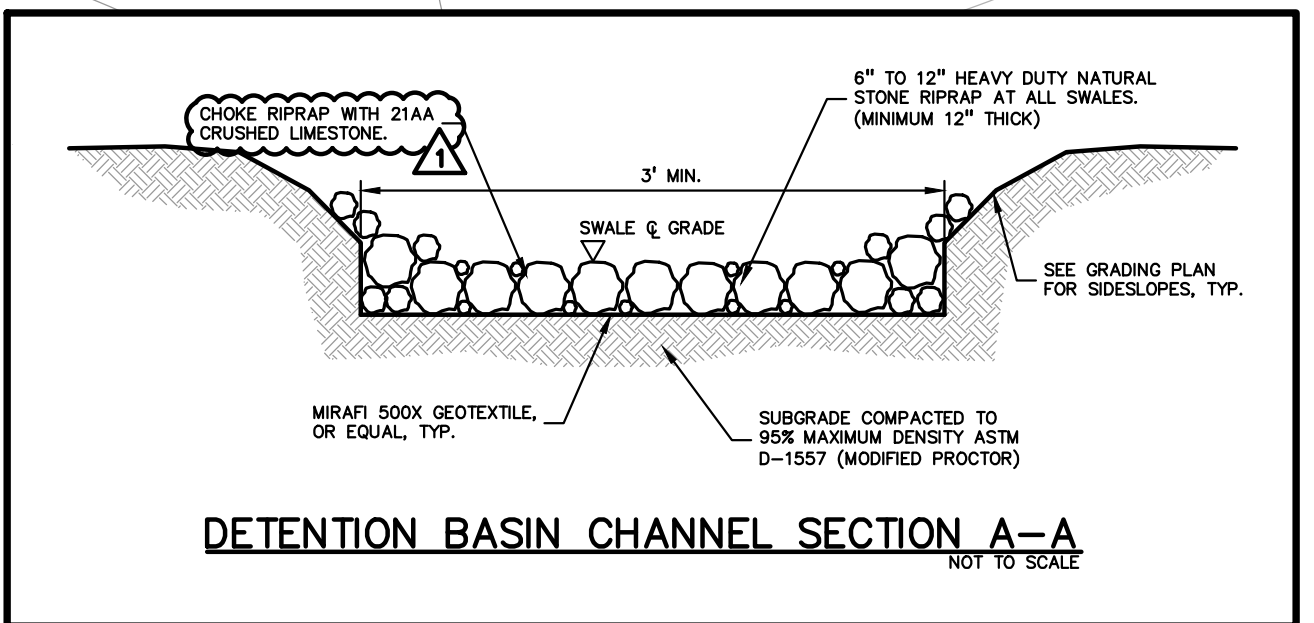
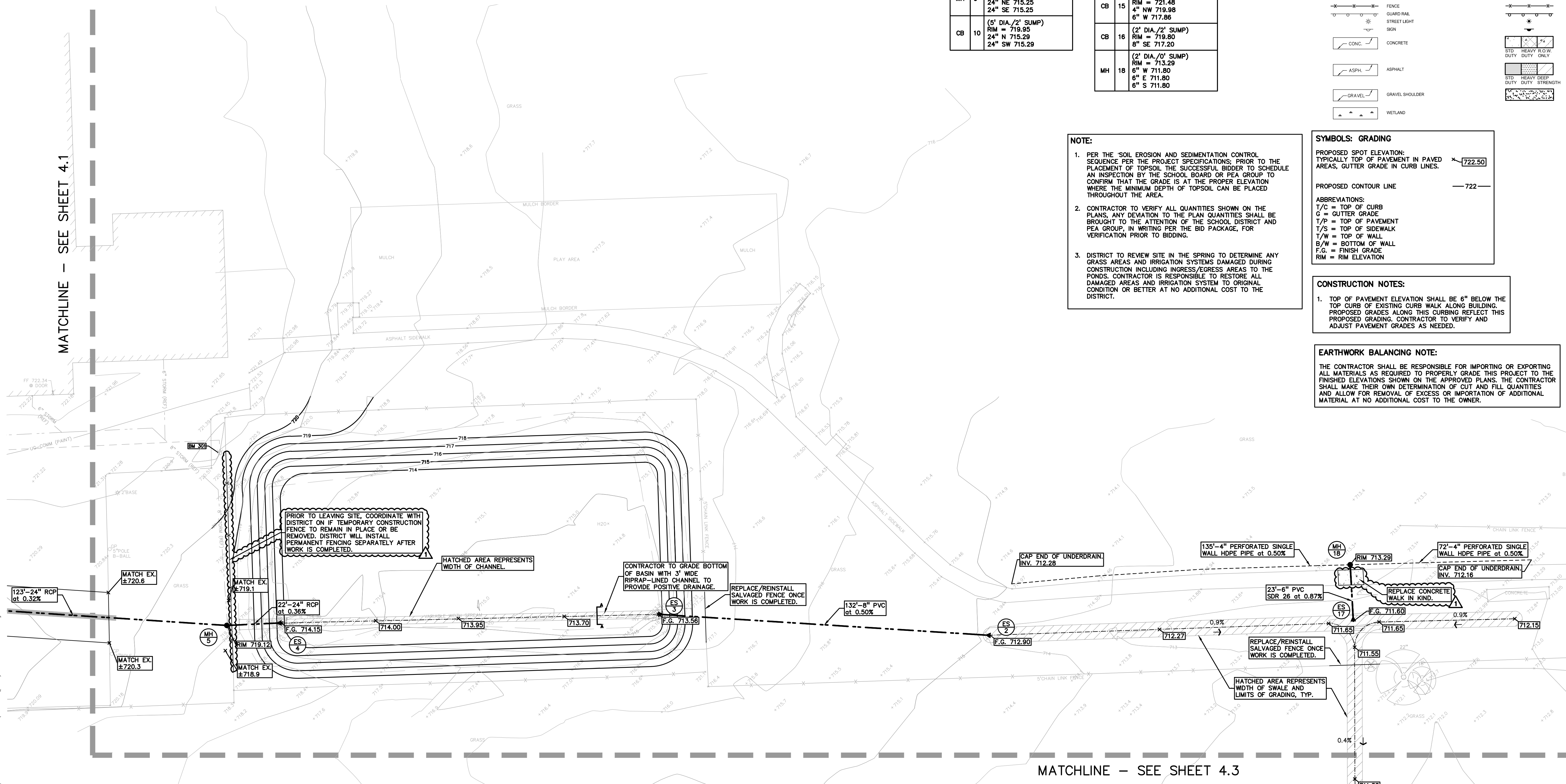
ABBREVIATIONS:
T/C = TOP OF CURB
G = GUTTER GRADE
T/P = TOP OF PAVEMENT
T/S = TOP OF SIDEWALK
T/W = TOP OF WALL
B/W = BOTTOM OF WALL
F.G. = FINISH GRADE
RIM = RIM ELEVATION

CONSTRUCTION NOTES:

- TOP OF PAVEMENT ELEVATION SHALL BE 6" BELOW THE TOP CURB OF EXISTING CURB WALK ALONG BUILDING. PROPOSED GRADES ALONG THIS CURBING REFLECT THIS PROPOSED GRADING. CONTRACTOR TO VERIFY AND ADJUST PAVEMENT GRADES AS NEEDED.

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.



NOTE:
CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC

NOT FOR CONSTRUCTION

S:\PROJECTS\2021\0584-0584-2022-TSD-SITE-IMPROVEMENT-PROJECTS\CONSTRUCTION-PAE-PANMS2-MARTELL\C-4-ENGINEERING-PLAN-21-0584.dwg

MATCHLINE - SEE SHEET 4.1

MATCHLINE - SEE SHEET 4.3

RANKIN DRIVE (60' WIDE - PUBLIC)

DEMOLITION QUANTITIES:

REMOVE ASPHALT	16,650 SF
REMOVE CONCRETE	3,071 SF
REMOVE PAVEMENT	687 LF
REMOVE STRIPING	120 LF
REMOVE AND SALVAGE FENCE	205 LF
REMOVE BOLLARD	6 EA.

LEGEND

EXISTING

- OH-ELEC: OH-ELEC
- UG-CATV: UG-CATV
- UG-PHONE: UG-PHONE
- UG-ELEC: UG-ELEC
- GAS: GAS
- WATER: WATER
- SEWER: SEWER
- COMBINED: COMBINED
- SQUARE: SQUARE
- WATER VALVE: WATER VALVE
- MAILBOX: MAILBOX
- UNIDENTIFIED: UNIDENTIFIED
- SPOT ELEVATION: SPOT ELEVATION
- CONTOUR LINE: CONTOUR LINE
- FENCE: FENCE
- GUARD RAIL: GUARD RAIL
- STREET LIGHT: STREET LIGHT
- CONC: CONC
- ASPH: ASPH
- GRAVEL: GRAVEL
- WETLAND: WETLAND

PROPOSED

- SEC CORNER FOUND: SEC CORNER FOUND
- R RECORDED: R RECORDED
- M MEASURED: M MEASURED
- C CALCULATED: C CALCULATED

ALTERNATE BID NOTES:

- PROVIDE COSTS TO REMOVE AND REPLACE EXISTING DRAINAGE STRUCTURE WITH A 4 FOOT DIAMETER CATCH BASIN AND CASTING. TOTAL OF TWO STRUCTURES.

DEMOLITION LEGEND:

- ITEM TO BE PROTECTED: [Symbol]
- ITEM TO BE REMOVED: [Symbol]
- CURB/FENCE REMOVAL: [Symbol]
- CONCRETE PAVEMENT AND SIDEWALK REMOVAL: [Symbol]
- VEGETATION/TOPSOIL TO BE REMOVED: [Symbol]
- ASPHALT REMOVAL: [Symbol]
- SAWCUT LINE: [Symbol]

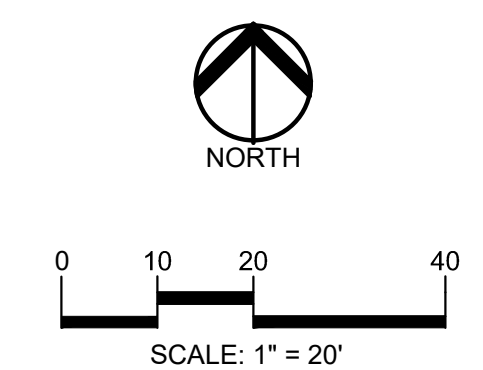
NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- PAVING OPERATIONS TO BE CARRIED OUT IN MULTIPLE PHASES TO ALLOW FOR OWNER ACCESS. PROJECT PHASING TO BE DETERMINED AT LATER DATE PER SCHOOL DISTRICT DIRECTION.

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

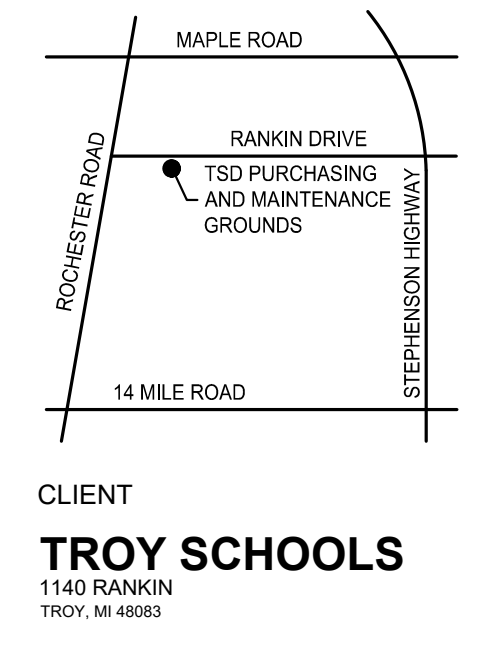
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
- THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTING AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
- ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
- REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.



811 Know what's below. Call before you dig.

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PROJECT TITLE
TROY SCHOOLS PURCHASING MAINTENANCE AND GROUNDS
1140 RANKIN DRIVE, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

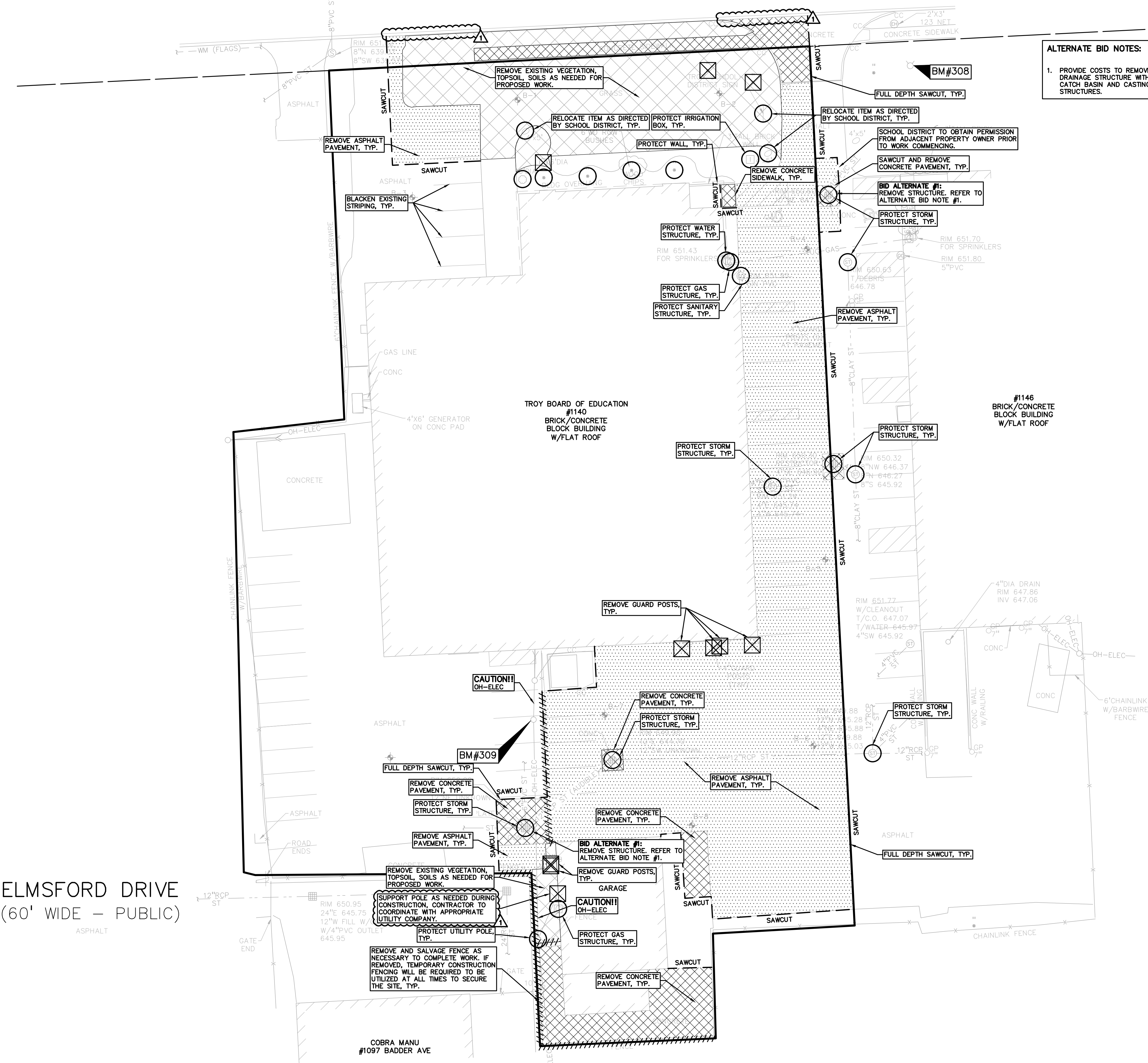
ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DEMOLITION PLAN

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS

DRAWING NUMBER:
C-2.0

ELMSFORD DRIVE (60' WIDE - PUBLIC)



NOT FOR CONSTRUCTION

S:\PROJECTS\2021\0021-0584-0584-2022-TSD-BIE-IMPROVEMENT-PROJECTS\IMPROVEMENT-CONSTRUCTION-PEA-PANAMA3\FACILITY\01\VC-2.0\DEMOLITION\FACILITY.DWG 21-0584.dwg

RANKIN DRIVE (60' WIDE - PUBLIC)

LEGEND

EXISTING	PROPOSED
● IRON FOUND	○ BRASS PLUG SET
⊗ IRON SET	⊗ MONUMENT FOUND
⊗ NAIL FOUND	⊗ MONUMENT SET
⊗ NAIL & CAP SET	○ SEC. CORNER FOUND
	○ R. RECORDED
	○ M. MEASURED
	○ C. CALCULATED

—OH-ELEC—	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
—UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS VALV & GAS LINE MARKER—	GAS VALVE & GAS LINE MARKER
—WATER MAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE—	WATER MAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
—SANITARY SEWER, CLEANOUT & MANHOLE—	SANITARY SEWER, CLEANOUT & MANHOLE
—STORM SEWER, CLEANOUT & MANHOLE—	STORM SEWER, CLEANOUT & MANHOLE
—COMBINED SEWER & MANHOLE—	COMBINED SEWER & MANHOLE
—SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN—	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
—POST INDICATOR VALVE—	POST INDICATOR VALVE
—WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF—	WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
—MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE—	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
—UNIDENTIFIED STRUCTURE—	UNIDENTIFIED STRUCTURE
—SPOT ELEVATION—	SPOT ELEVATION
—CONTOUR LINE—	CONTOUR LINE
—FENCE—	FENCE
—GUARD RAIL—	GUARD RAIL
—STREET LIGHT—	STREET LIGHT
—SIGN—	SIGN
—CONC.—	CONCRETE
—ASPH.—	ASPHALT
—GRAVEL—	GRAVEL SHOULDER
—WETLAND—	WETLAND

SIDEWALK RAMP LEGEND:

CURB DROP ONLY

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

SIGN LEGEND:

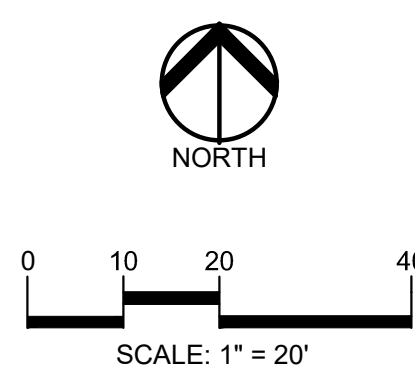
'VAN ACCESSIBLE' SIGN	1
'ONE-WAY RIGHT' SIGN	2
'DO NOT ENTER' SIGN	3

REFER TO DETAIL SHEET FOR SIGN DETAILS

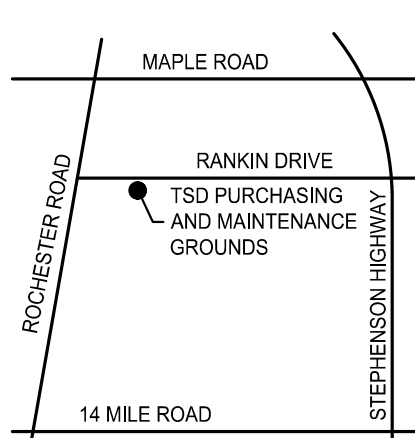
GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS.



CAUTION!!
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CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
TROY SCHOOLS PURCHASING MAINTENANCE AND GROUNDS
1140 RANKIN DRIVE, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

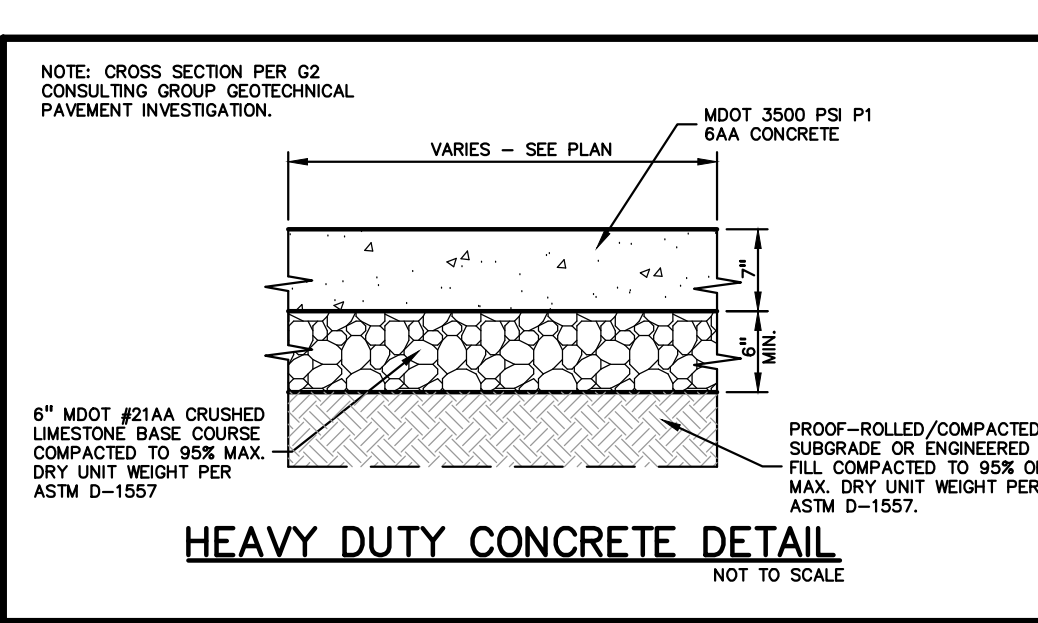
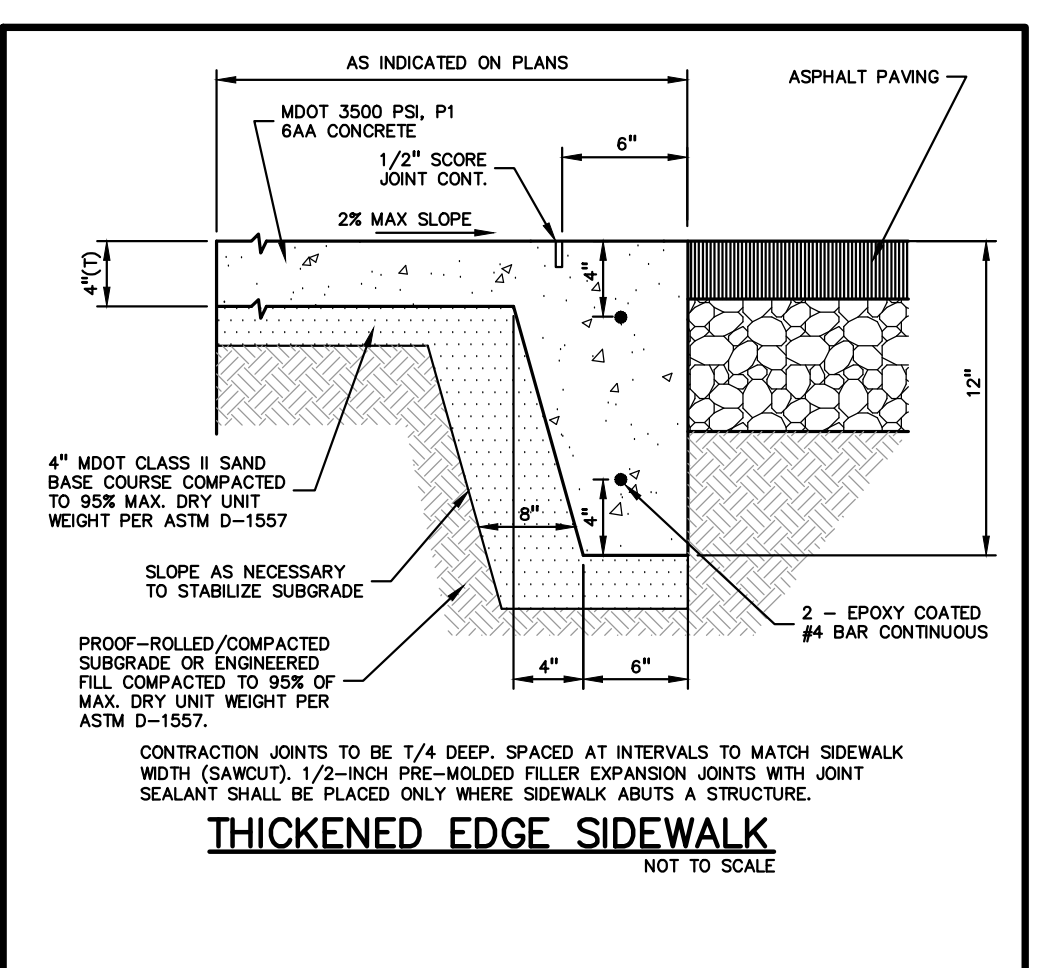
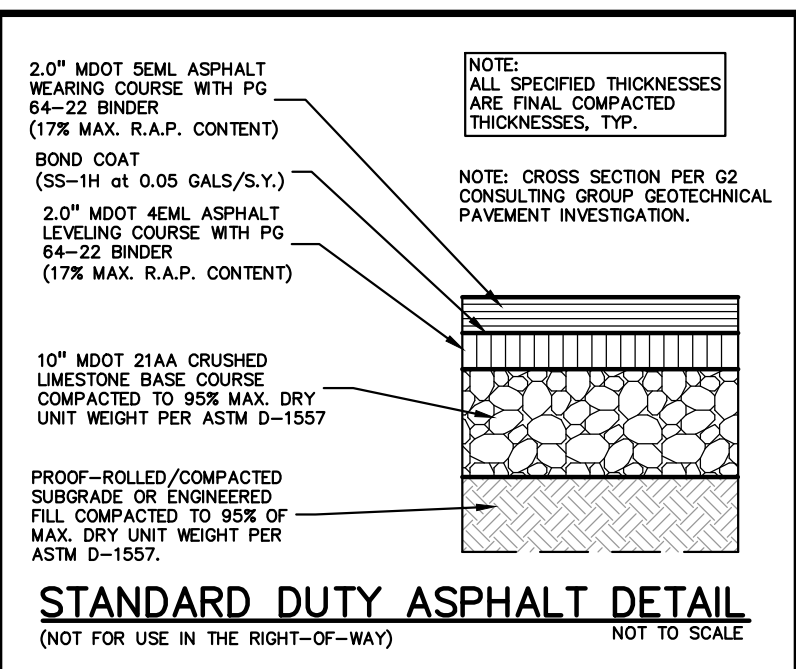
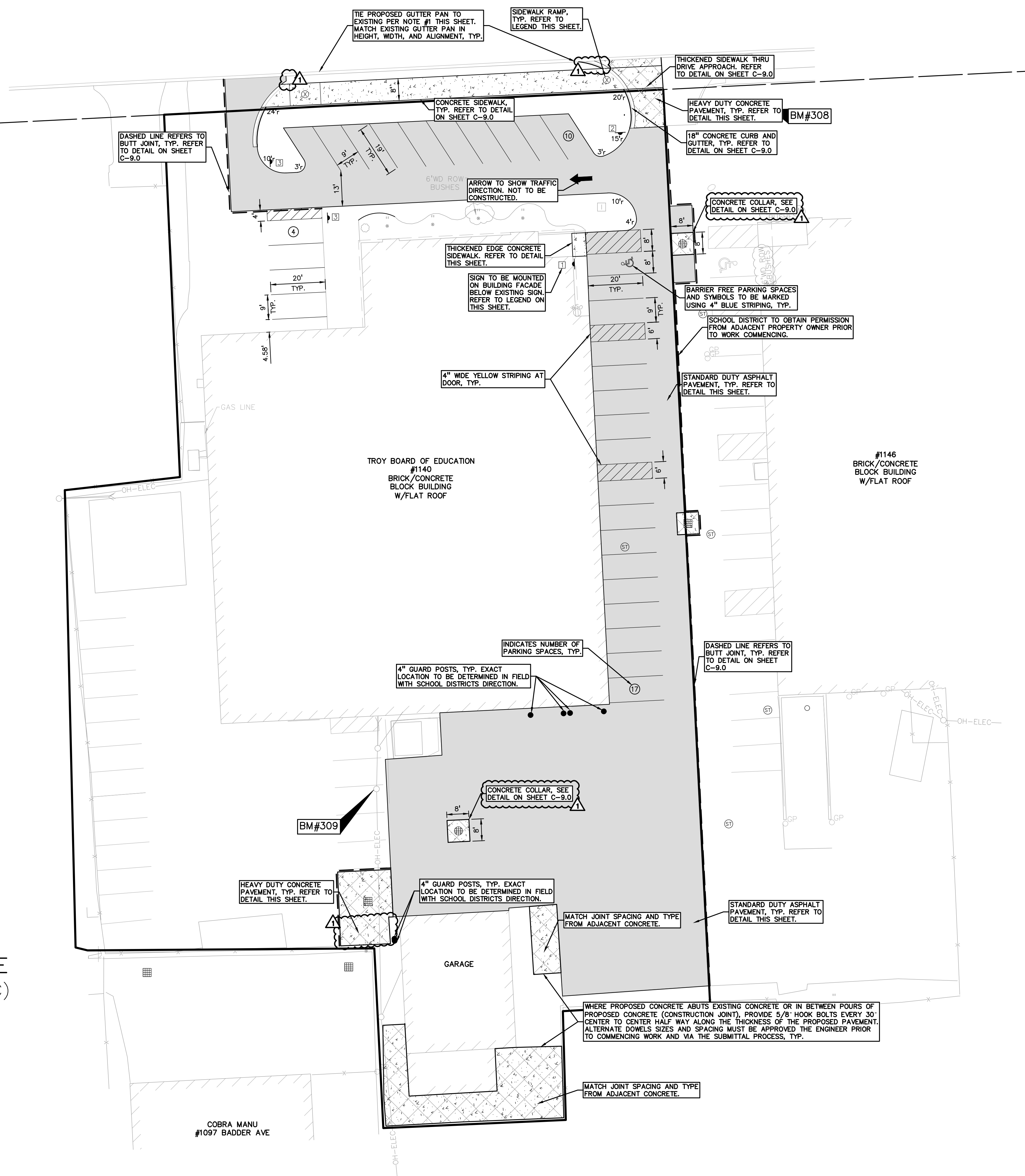
ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DIMENSION AND PAVING PLAN

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS

DRAWING NUMBER:

C-3.0



ELMSFORD DRIVE (60' WIDE - PUBLIC)

SIDEWALK RAMP LEGEND:
CURB DROP ONLY

SIGN LEGEND:
'VAN ACCESSIBLE' SIGN
'ONE-WAY RIGHT' SIGN
'DO NOT ENTER' SIGN

GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- ALL PROPOSED ADA RAMP SHALL HAVE TRUNCATED DOMES, PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
- THE QUANTITY FOR 'SUBGRADE UNDERCUT' ON SHEET C-3.0 FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

CONSTRUCTION NOTES:

- DOWEL INTO EXISTING CURB AND GUTTER 9\"/>
- EXISTING SIGNS THAT CAN BE SALVAGED SHALL BE RE-USED AND NEW SIGNS SHALL BE PROVIDED AS NEEDED.

PAVING QUANTITIES:

18\"/>	30 LF
4\"/>	19,786 SF
10\"/>	19,786 SF
CONCRETE SIDEWALK	1,065 SF
7\"/>	2,584 SF
6\"/>	2,584 SF
BUTT JOINT	473 LF
STRIPED PARKING SPACE	31 EA
STRIPED HANDICAP SPACE AND SYMBOL	1 EA
STRIPED CROSS HATCHING	480 SF
CONCRETE COLLAR	3 EA
SUBGRADE UNDERCUT	100 CYD

S:\PROJECTS\2021\0021-0584-2022-TSD-BIE-IMPROVEMENT-PROJECTS\CONSTRUCTION-PEA-PEA-PARKING-FACILITY-OP/C-3.0-DIM-FACILITY-OPS-21-0584.dwg

NOT FOR CONSTRUCTION

RANKIN DRIVE
 (60' WIDE - PUBLIC)

ENGINEERING QUANTITIES:

RADIAL UNDERDRAIN	240 LF
8" PVC SDR 26	135 LF
10" PVC SDR 26	151 LF
2' DIA. INLET	4 EA.
ADJUST RIM	1 EA.
TAP EXISTING STRUCTURE	2 EA.

SIDEWALK RAMP LEGEND:
 CURB DROP ONLY
 REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

LEGEND

<ul style="list-style-type: none"> IRON FOUND MONUMENT FOUND NAL FOUND NAL & CAP SET 	<ul style="list-style-type: none"> BRASS PLUG SET MONUMENT SET NAL & CAP SET 	<ul style="list-style-type: none"> SEC CORNER FOUND R RECORDED M MEASURED C CALCULATED
--	---	--

EXISTING

- OH-ELEC: OH-ELEC
- UG-CATV: UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE: TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC: ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS: GAS MAIN, VALVE & GAS LINE MARKER
- WATER: WATER MAIN, P.V.C. GATE VALVE, TAPPING BREEVIE & VALVE
- SEWER: SANITARY SEWER, CLEANOUT & MANHOLE
- STORM: STORM SEWER, CLEANOUT & MANHOLE
- COMBINED: COMBINED SEWER & MANHOLE
- SQUARE: SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST: POST INDICATOR VALVE
- WATER: WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX: MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED: UNIDENTIFIED STRUCTURE
- SPOT: SPOT ELEVATION
- CONTOUR: CONTOUR LINE
- FENCE: FENCE
- GUARDRAIL: GUARDRAIL
- STREET: STREET LIGHT
- SIEN: SIGN

PROPOSED

- CONC: CONCRETE
- ASPH: ASPHALT
- GRAVEL: GRAVEL SHOULDER
- WETLAND: WETLAND
- 3SD: 3SD HEAVY FLOW DUTY ONLY
- STD: STD HEAVY DEEP DUTY DUTY STRENGTH

EARTHWORK BALANCING NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

SYMBOLS: GRADING

PROPOSED SPOT ELEVATION: 722.50

PROPOSED CONTOUR LINE: 722

ABBREVIATIONS:
 T/C = TOP OF CURB
 G = GUTTER GRADE
 T/P = TOP OF PAVEMENT
 T/S = TOP OF SIDEWALK
 T/W = TOP OF WALL
 B/W = BOTTOM OF WALL
 F.G. = FINISH GRADE
 RIM = RIM ELEVATION

GENERAL SITE CONDITIONS:

- ACCORDING TO THE USGS WEB SOIL SURVEY DATED DECEMBER 6, 2021, THE SITE CONSISTS OF THE FOLLOWING SOIL TYPES:
 41B - AQUENTS, SANDY, LOAMY, UNDULATING
 59 - URBAN LAND
- TOTAL DISTURBED AREA = ±0.65 ACRES
- N.P.D.E.S. NOTICE OF COVERAGE IS NOT REQUIRED

NOTE:

- PER THE SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE PER THE PROJECT SPECIFICATIONS; PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL BOARD OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATION TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.

STORM SEWER STRUCTURES:

EX 01	RIM 650.60 10" NE 647.10 10" NW 647.10	IN 05	(2' DIA./2' SUMP) E.I.W #1040 TYPE '02' BEEHIVE RIM 651.00 8" S 648.22 8" N 648.22
IN 02	(4' DIA./2' SUMP) E.I.W #1040 TYPE '02' BEEHIVE RIM 650.75 10" SW 647.32 10" SE 647.32	IN 06	(2' DIA./2' SUMP) E.I.W #1000TYPE 'M' GRATE RIM 651.50 8" E 648.56 8" N 648.56
IN 03	(2' DIA./2' SUMP) E.I.W #1040 TYPE '02' BEEHIVE RIM 651.25 10" NE 647.72	IN 07	(2' DIA./2' SUMP) E.I.W #1000TYPE 'M' GRATE RIM 651.15 8" W 648.90
EX 04	RIM 650.22 E INV. UNKNOWN 6" N 648.62 12" NE INV UNKNOWN 8" SE 648.09		REFER TO CITY OF TROY STANDARD DETAIL SHEETS FOR ALL STORM SEWER STRUCTURES AND DETAILS.

NOTE:
 CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC

STORM SEWER FRAME & COVER NOTES

CATCH BASIN IN PAVEMENT	E.I.W #5105 WITH M2 GRATE
CATCH BASIN NOT IN PAVED AREA	E.I.W #1040 WITH TYPE M GRATE
CATCH BASIN/LET IN LANDSCAPED AREAS	E.I.W #1040 WITH TYPE 02 BEEHIVE GRATE
MANHOLE	E.I.W #1040 WITH TYPE C PERFORATED COVER

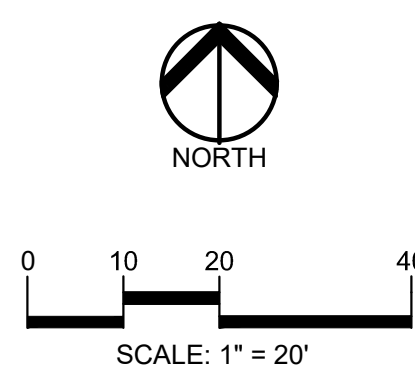
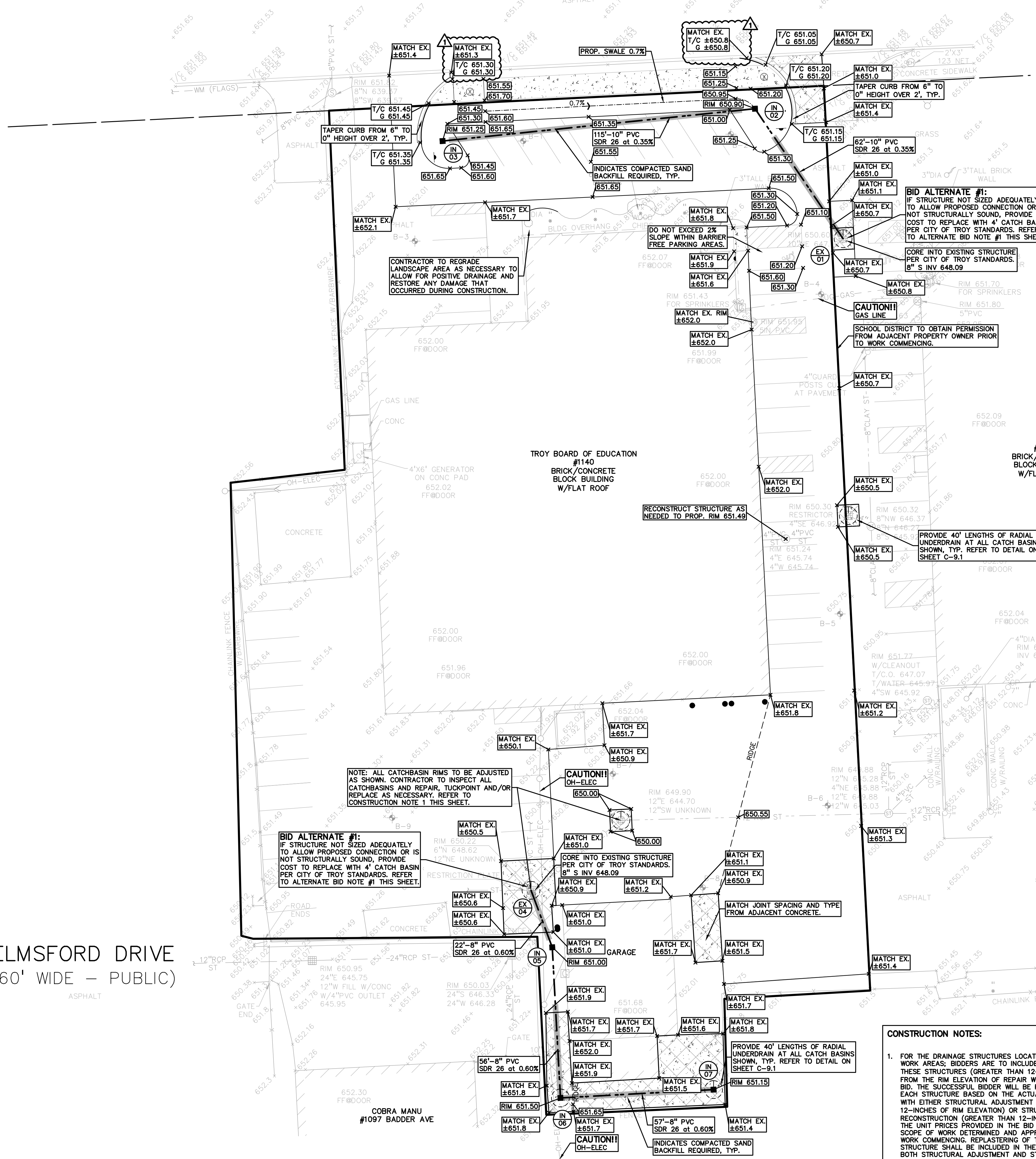
ALTERNATE BID NOTES:

- PROVIDE COSTS TO REMOVE AND REPLACE EXISTING DRAINAGE STRUCTURE WITH A 4 FOOT DIAMETER CATCH BASIN AND CASTING. TOTAL OF TWO STRUCTURES.

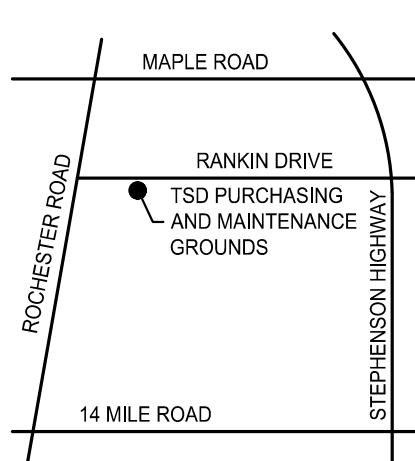
CONSTRUCTION NOTES:

- FOR THE DRAINAGE STRUCTURES LOCATED IN THE PAVEMENT WORK AREAS; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.

ELMSFORD DRIVE
 (60' WIDE - PUBLIC)



CAUTION!!
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CLIENT
TROY SCHOOLS
 1140 RANKIN
 TROY, MI 48063

PROJECT TITLE
TROY SCHOOLS PURCHASING MAINTENANCE AND GROUNDS
 1140 RANKIN DRIVE, TROY, MI

REVISIONS

OUT TO BID	DATE
1-ADDENDUM 1	01/06/2022
	01/20/2022

ORIGINAL ISSUE DATE:
 JANUARY 6, 2022

DRAWING TITLE
ENGINEERING PLAN

PEA JOB NO.	2021-0584
P.M.	RR
D.N.	KMM
DES.	JDS

DRAWING NUMBER:

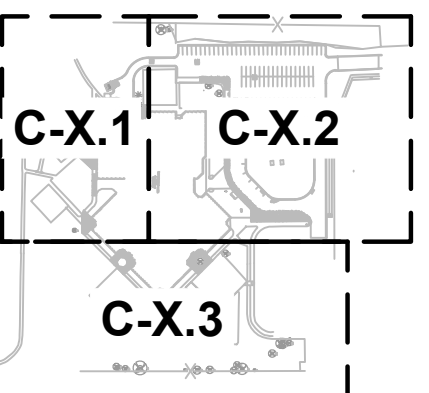
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0 10 20 40
SCALE: 1" = 20'



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CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
WASS ELEMENTARY SCHOOLS
2340 WILLARD DRIVE, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DEMOLITION PLAN-SOUTHWEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

C-2.1

LEGEND

- | | | |
|------------------|------------------|---------------------|
| ● IRON FOUND | ⊗ BRASS PLUG SET | ⊙ SEC. CORNER FOUND |
| ⊗ IRON SET | ⊙ MONUMENT FOUND | R RECORDED |
| ⊗ NAIL FOUND | ⊗ MONUMENT SET | M MEASURED |
| ⊗ NAIL & CAP SET | | C CALCULATED |
-
- EXISTING**
- OH-ELEC—W—W— ELEC. PHONE OR CABLE TV O/L LINE, POLE & GUY WIRE
 - UG-CATV— ELEC. UNDERGROUND CABLE TV, CATV PEDESTAL
 - UG-PHONE— TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
 - UG-ELEC—ELEC. U.G. CABLE, MANHOLE, METER & HANDHOLE
 - GAS VALVE & GAS LINE MARKER— GAS MAIN, VALVE & GAS LINE MARKER
 - WATERMAN, HYD., GATE VALVE, TAPPING BLEWIE & VALVE— WATERMAN, HYD., GATE VALVE, TAPPING BLEWIE & VALVE
 - SANITARY SEWER, CLEANOUT & MANHOLE— SANITARY SEWER, CLEANOUT & MANHOLE
 - STORM SEWER, CLEANOUT & MANHOLE— STORM SEWER, CLEANOUT & MANHOLE
 - COMBINED SEWER & MANHOLE— COMBINED SEWER & MANHOLE
 - SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN— SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
 - POST INDICATOR VALVE— POST INDICATOR VALVE
 - WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF— WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
 - MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE— MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
 - UNIDENTIFIED STRUCTURE— UNIDENTIFIED STRUCTURE
 - SPOT ELEVATION— SPOT ELEVATION
 - CONTOUR LINE— CONTOUR LINE
 - FENCE— FENCE
 - GUARD RAIL— GUARD RAIL
 - STREET LIGHT— STREET LIGHT
 - SIGN— SIGN
 - CONC.— CONCRETE
 - ASPH.— ASPHALT
 - GRAVEL— GRAVEL SHOULDER
 - WETLAND— WETLAND

DEMOLITION LEGEND:

- | | |
|--|-----------|
| ITEM TO BE PROTECTED | ⊙ |
| ITEM TO BE REMOVED | ⊗ |
| CURB/FENCE REMOVAL | |
| CONCRETE PAVEMENT AND SIDEWALK REMOVAL | XXXXX |
| VEGETATION/TOPSOIL TO BE REMOVED | XXXXX |
| ASPHALT REMOVAL | XXXXX |
| SAWCUT LINE | — — — — — |

NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.

GENERAL DEMOLITION NOTES:

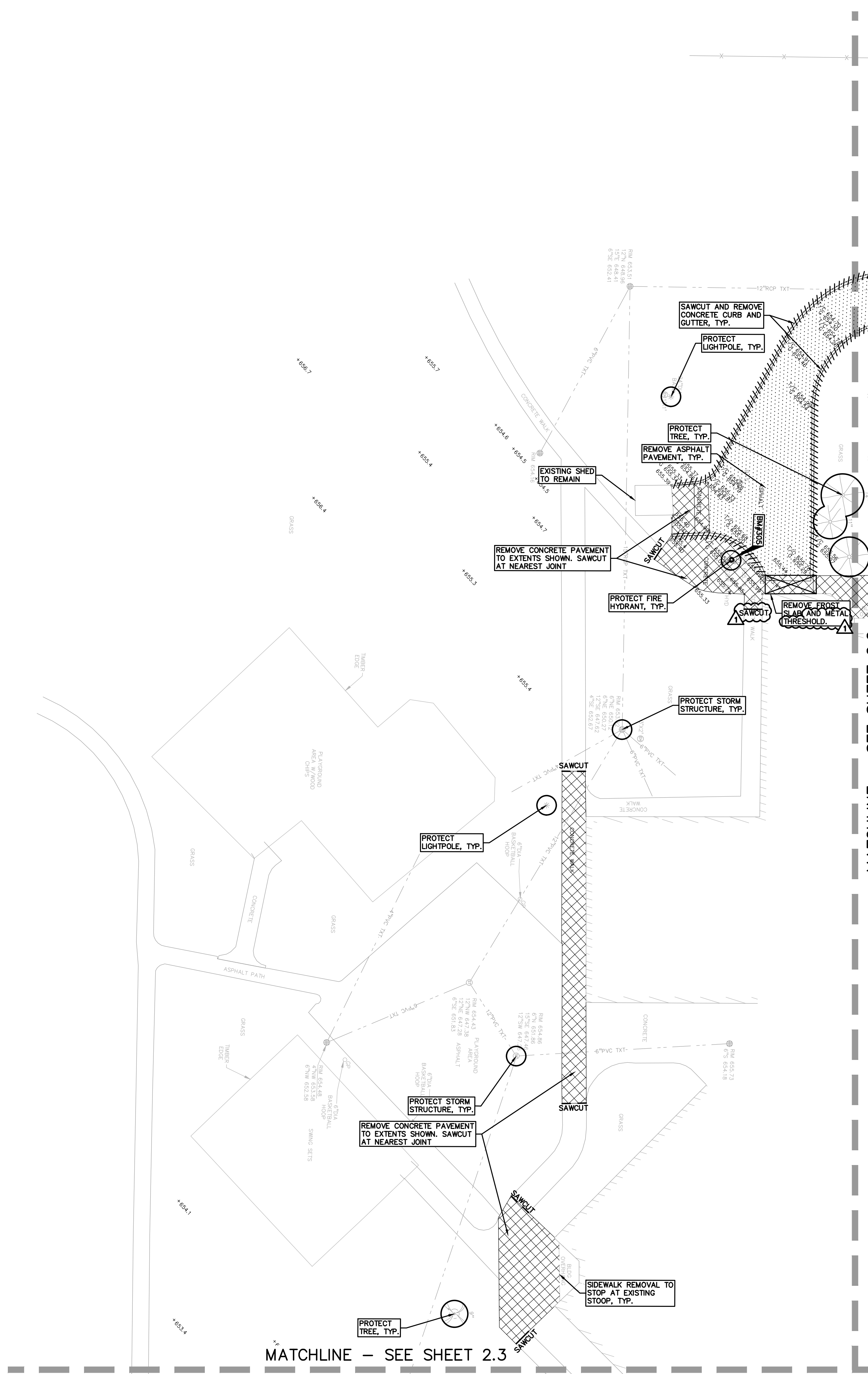
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
 - ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
 - STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENT OF DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
 - REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC.
 - THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
 - ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY.
 - REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

BASE BID DEMOLITION QUANTITIES:

REMOVE CURB	970 LF
REMOVE ASPHALT	13,369 SF
REMOVE CONCRETE	6,048 SF
REMOVE FROST SLAB	1 EA
SAWCUT PAVEMENT	132 LF

BID ALTERNATE #1 DEMOLITION QUANTITIES:

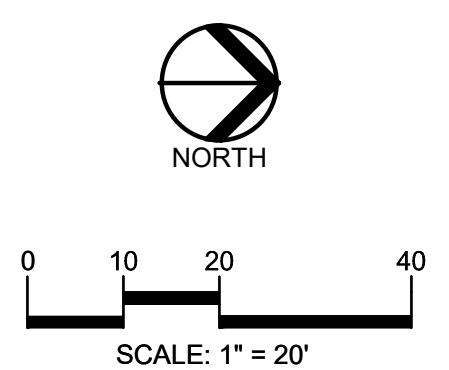
REMOVE BIKE RACK	1 EA
REMOVE CONCRETE CURB	897 LF
REMOVE CONCRETE PAVEMENT	4,392 SF
REMOVE ASPHALT PAVEMENT	20,745 SF
SAWCUT PAVEMENT	269 LF



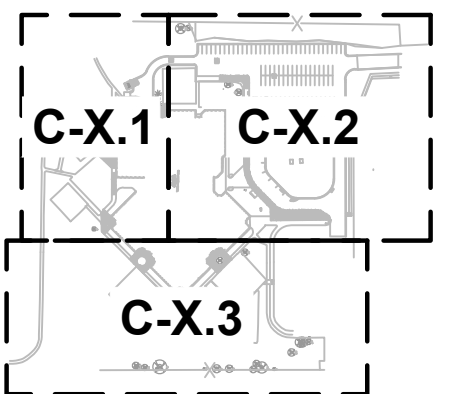
LEGEND

- IRON FOUND
 - ⊗ IRON SET
 - ⊗ NAIL FOUND
 - ⊗ NAIL & CAP SET
 - ⊗ BRASS PLUG SET
 - ⊗ MONUMENT FOUND
 - ⊗ MONUMENT SET
 - ⊗ SEC. CORNER FOUND
 - R RECORDED
 - M MEASURED
 - C CALCULATED
- EXISTING**
- OH-ELEC- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
 - UG-CATV- UNDERGROUND CABLE TV, CATV PEDESTAL
 - UG-PHONE- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
 - UG-ELEC- ELECTRIC U.G. CABLE, MANHOLE, METER & MANHOLE
 - ⊗ GAS VALVE & GAS LINE MARKER
 - ⊗ WATERMAN, HYD. GATE VALVE, TAPPING BLEEVE & VALVE
 - ⊗ SANITARY SEWER, CLEANOUT & MANHOLE
 - ⊗ STORM SEWER, CLEANOUT & MANHOLE
 - ⊗ COMBINED SEWER & MANHOLE
 - ⊗ SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
 - ⊗ POST INDICATOR VALVE
 - ⊗ WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
 - ⊗ MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
 - ⊗ UNIDENTIFIED STRUCTURE
 - ⊗ UNIDENTIFIED STRUCTURE
 - ⊗ SPOT ELEVATION
 - 670 CONTOUR LINE
 - ⊗ FENCE
 - ⊗ GUARD RAIL
 - ⊗ STREET LIGHT
 - ⊗ SIGN
 - CONC. CONCRETE
 - ASPH. ASPHALT
 - GRAVEL GRAVEL SHOULDER
 - WETLAND

- DEMOLITION LEGEND:**
- ⊗ ITEM TO BE PROTECTED
 - ⊗ ITEM TO BE REMOVED
 - ||||| CURB/FENCE REMOVAL
 - ⊗ CONCRETE PAVEMENT AND SIDEWALK REMOVAL
 - ⊗ VEGETATION/TOPSOIL TO BE REMOVED
 - ⊗ ASPHALT REMOVAL
 - SAWCUT LINE



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CLIENT
TROY SCHOOLS
 1140 RANKIN
 TROY, MI 48063

PROJECT TITLE
WASS ELEMENTARY SCHOOLS
 2340 WILLARD DRIVE, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

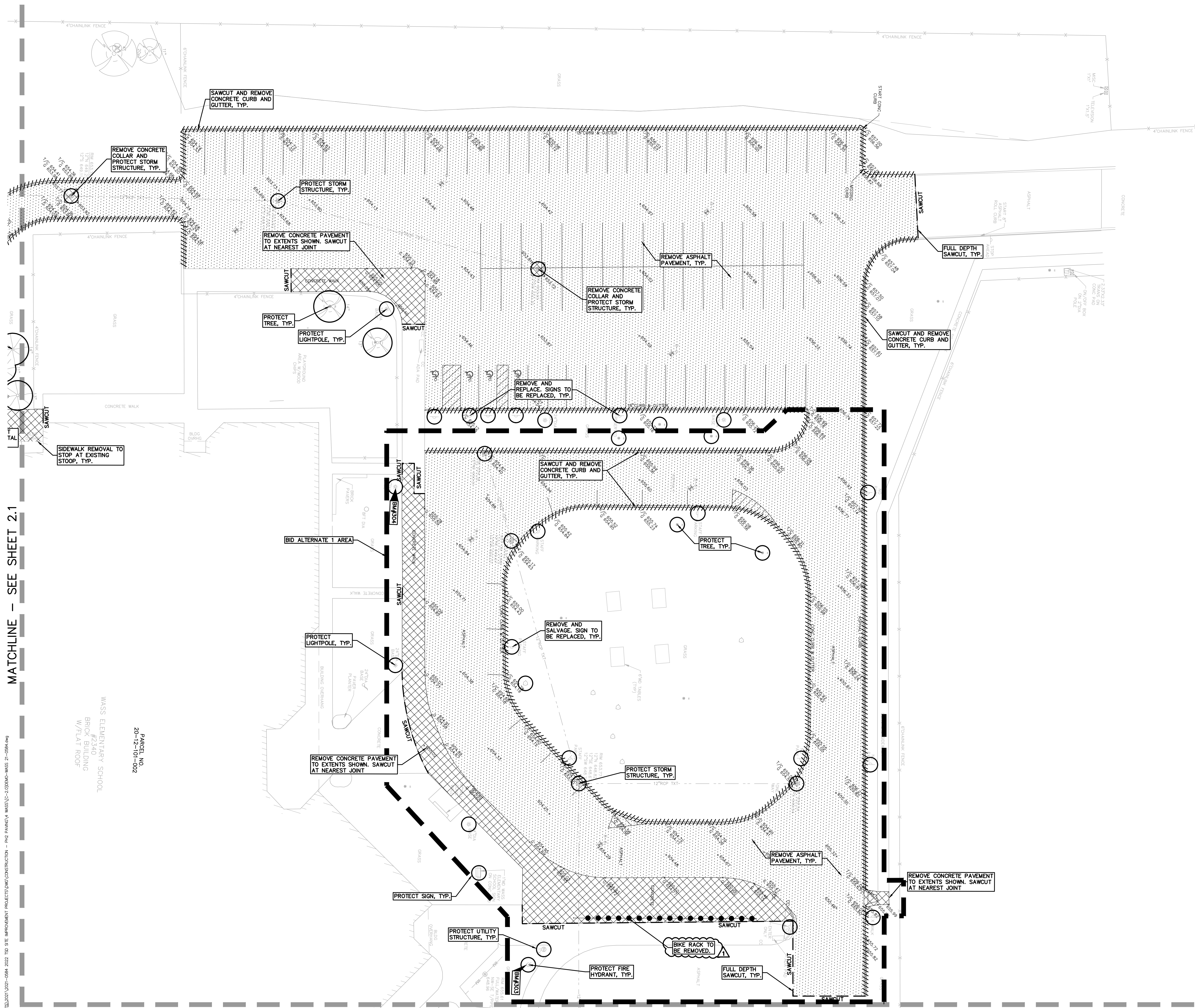
ORIGINAL ISSUE DATE:
 JANUARY 6, 2022

DRAWING TITLE
DEMOLITION PLAN-NORTHWEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

NOT FOR CONSTRUCTION

C-2.2



MATCHLINE - SEE SHEET 2.1

MATCHLINE - SEE SHEET 2.3

WASS ELEMENTARY SCHOOL
 BRICK BUILDING
 W/FLAT ROOF
 PARCEL NO.
 20-12-101-002

S:\PROJECTS\2021\0201-0584_2022\TSD SITE IMPROVEMENT PROJECTS\CONSTRUCTION - PEA\PAVING\WASS\C-2\DEMOL-NWSS 21-0584.dwg

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ R. RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ M. MEASURED
⊗ NAIL & CAP SET		⊙ C. CALCULATED

EXISTING	PROPOSED
—OH-ELEC—	—ELEC. PHONE OR CABLE TV O.U. LINE, POLE & GUY WIRE
—UG-CATV—	—UNDERGROUND CABLE TV, CATV PEDESTAL
—UG-PHONE—	—TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
—UG-ELEC—	—ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
—GAS—	—GAS MAIN, VALVE & GAS LINE MARKER
—WATER—	—WATER MAIN, HYD. GATE VALVE, TAPPING BLEEDIE & VALVE
—SEWER—	—SANITARY SEWER, CLEANOUT & MANHOLE
—STORM—	—STORM SEWER, CLEANOUT & MANHOLE
—COMB.—	—COMBINED SEWER & MANHOLE
—SQU.—	—SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
—POST—	—POST INDICATOR VALVE
—WATER VALVE BOX—	—WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
—MAILBOX—	—MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
—UNIDENTIFIED—	—UNIDENTIFIED STRUCTURE
—SPOT ELEVATION—	—SPOT ELEVATION
—CONTOUR LINE—	—CONTOUR LINE
—FENCE—	—FENCE
—GUARD RAIL—	—GUARD RAIL
—STREET LIGHT—	—STREET LIGHT
—SIGN—	—SIGN
—CONC.—	—CONCRETE
—ASPH.—	—ASPHALT
—GRAVEL—	—GRAVEL SHOULDER
—WETLAND—	—WETLAND

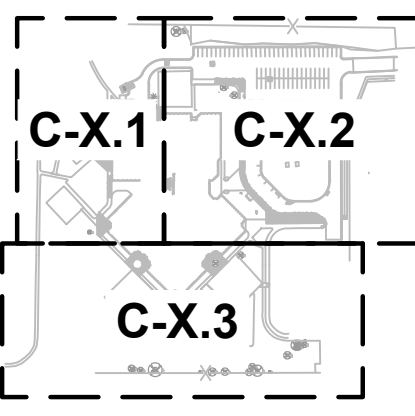
NORTH

0 10 20 40

SCALE: 1" = 20'

811 Know what's below. Call before you dig.

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CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
WASS ELEMENTARY SCHOOLS
2340 WILLARD DRIVE, TROY, MI

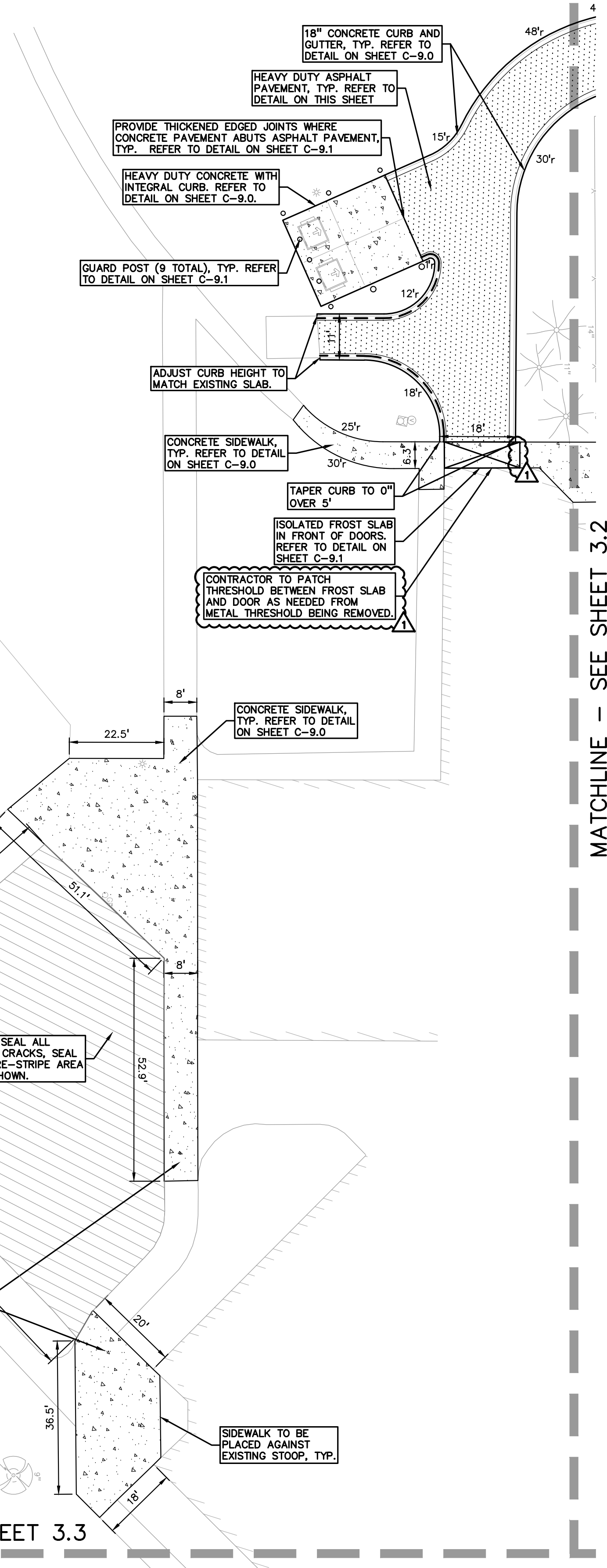
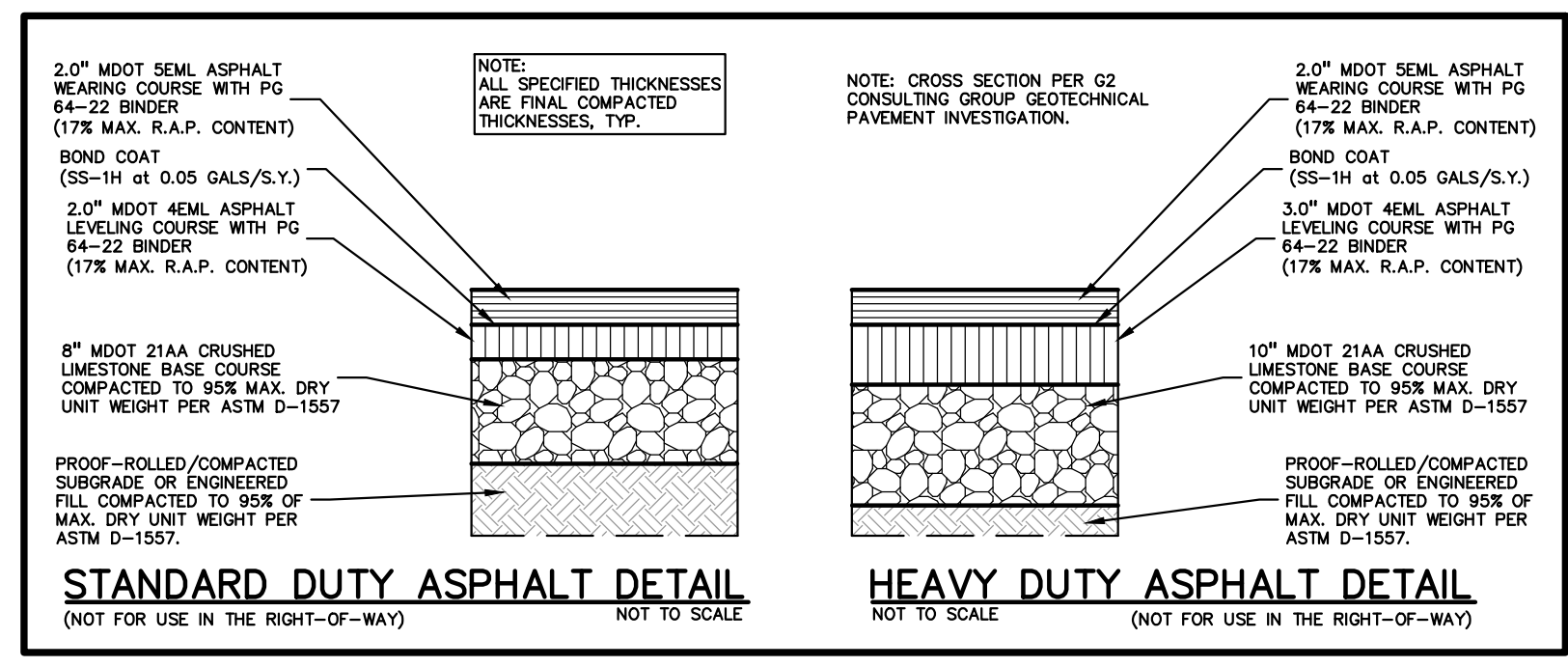
REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DIMENSION AND PAVING PLAN-SOUTHWEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS

DRAWING NUMBER:



- GENERAL NOTES:**
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.

- NOTES:**
- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
 - ALL PROPOSED ADA RAMPS SHALL HAVE TRUNCATED DOMES. PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
 - THE QUANTITY FOR "SUBGRADE UNDERCUT" ON SHEET C-3.0 FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

- CONSTRUCTION NOTES:**
- DOWEL INTO EXISTING CURB AND GUTTER 9" WITH #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
 - EXISTING SIGNS THAT CAN BE SALVAGED SHALL BE RE-USED AND NEW SIGNS SHALL BE PROVIDED AS NEEDED.

BASE BID PAVING QUANTITIES:

18" CONCRETE CURB AND GUTTER	790 LF
4" MOUNTABLE CURB AND GUTTER	55 LF
4" ASPHALT PAVEMENT	31,460 SF
8" 21AA AGGREGATE	31,460 SF
5" ASPHALT PAVEMENT	3,110 SF
1" 21AA AGGREGATE	3,110 SF
CONCRETE SIDEWALK	6,420 SF
INTEGRAL CURB AND WALK WITH 4" INTEGRAL CURB	82 LF
8" CONCRETE PAVEMENT	554 SF
6" 21AA AGGREGATE	554 SF
CONCRETE COLLAR	3 EA.
BUTT JOINT	29 LF
STRIPES PARKING SPACE	79 EA.
STRIPES HANDICAP SPACE AND SYMBOL	4 EA.
STRIPES CROSS HATCHING	260 SF
STRIPES DIRECTIONAL ARROW	5 EA.
SEAL COAT AND RESTRIPE	5,720 SF
JOINT AND CRACK ROUTING AND SEALING	200 LF
RELOCATE/REPLACE SIGN	5 EA.
GUARD POST	9 EA.
FROST SLAB	1 EA.
SUBGRADE UNDERCUT	175 CYD

BID ALTERNATE #1 PAVING QUANTITIES:

18" CONCRETE CURB AND GUTTER	866 LF
4" MOUNTABLE CURB AND GUTTER	46 LF
4" ASPHALT PAVEMENT	18,587 SF
8" 21AA AGGREGATE	18,587 SF
CONCRETE SIDEWALK	4,254 SF
INTEGRAL CURB AND WALK	320 LF
BUTT JOINT	32 LF
STRIPES PARKING SPACE	13 EA.
STRIPES CROSS HATCHING	247 SF
STRIPES DIRECTIONAL ARROW	6 EA.
STRIPES CROSSWALK	178 SF
PAINT INTEGRAL CURB	320 LF
CONCRETE COLLAR	4 EA.
RELOCATE/REPLACE SIGN	8 EA.
SUBGRADE UNDERCUT	75 CYD

S:\PROJECTS\2021\0201-0584_2022_TSD_SITE IMPROVEMENT PROJECTS\CONSTRUCTION - PEA PAVING\1. WASS\C-3.0\BIC-WASS 21-0584.dwg

LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ R. RECORDED
⊗ NAIL FOUND	⊗ NAIL & CAP SET	⊙ M. MEASURED
		⊙ C. CALCULATED

— OH-ELEC—	ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
— UG-CATV—	UNDERGROUND CABLE TV, CATV PEDESTAL
⊗ UG-ELEC—	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
⊗ UG-ELEC—	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
⊗ UG-ELEC—	GAS MAN. VALVE & GAS LINE MARKER
⊗	WATERMAN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
⊗	SANITARY SEWER, CLEANOUT & MANHOLE
⊗	STORM SEWER, CLEANOUT & MANHOLE
⊗	COMBINED SEWER & MANHOLE
⊗	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
⊗	POST INDICATOR VALVE
⊗	WATER VALVE BODY/HYDRANT VALVE BOX, SERVICE SHUTOFF
⊗	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
⊗	UNIDENTIFIED STRUCTURE
⊗	SPOT ELEVATION
—	CONTOUR LINE
—	FENCE
—	GUARD RAIL
—	STREET LIGHT
—	CONC.
—	ASPH.
—	GRAVEL
—	WETLAND

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R' ⊗

CURB DROP ONLY ⊗

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

SIGN LEGEND:

'BARRIER FREE' SIGN 1

'VAN ACCESSIBLE' SIGN 2

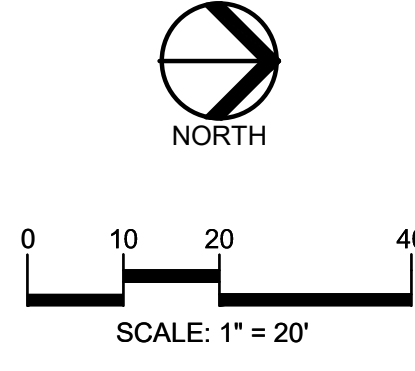
'STAFF PARKING' SIGN 3

'NO PARKING' SIGN 4

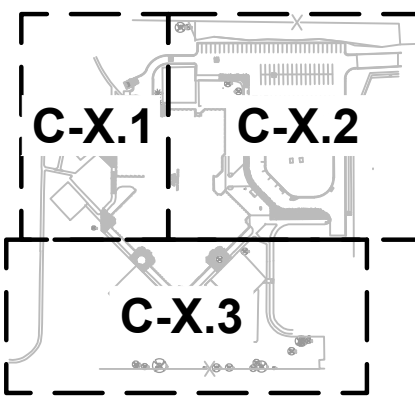
'ONE WAY' SIGN 5

'RESERVED' SIGN 6

REFER TO DETAIL SHEET FOR SIGN DETAILS



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
WASS ELEMENTARY SCHOOLS
2340 WILLARD DRIVE, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022

DRAWING TITLE
DIMENSION AND PAVING PLAN-NORTHWEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

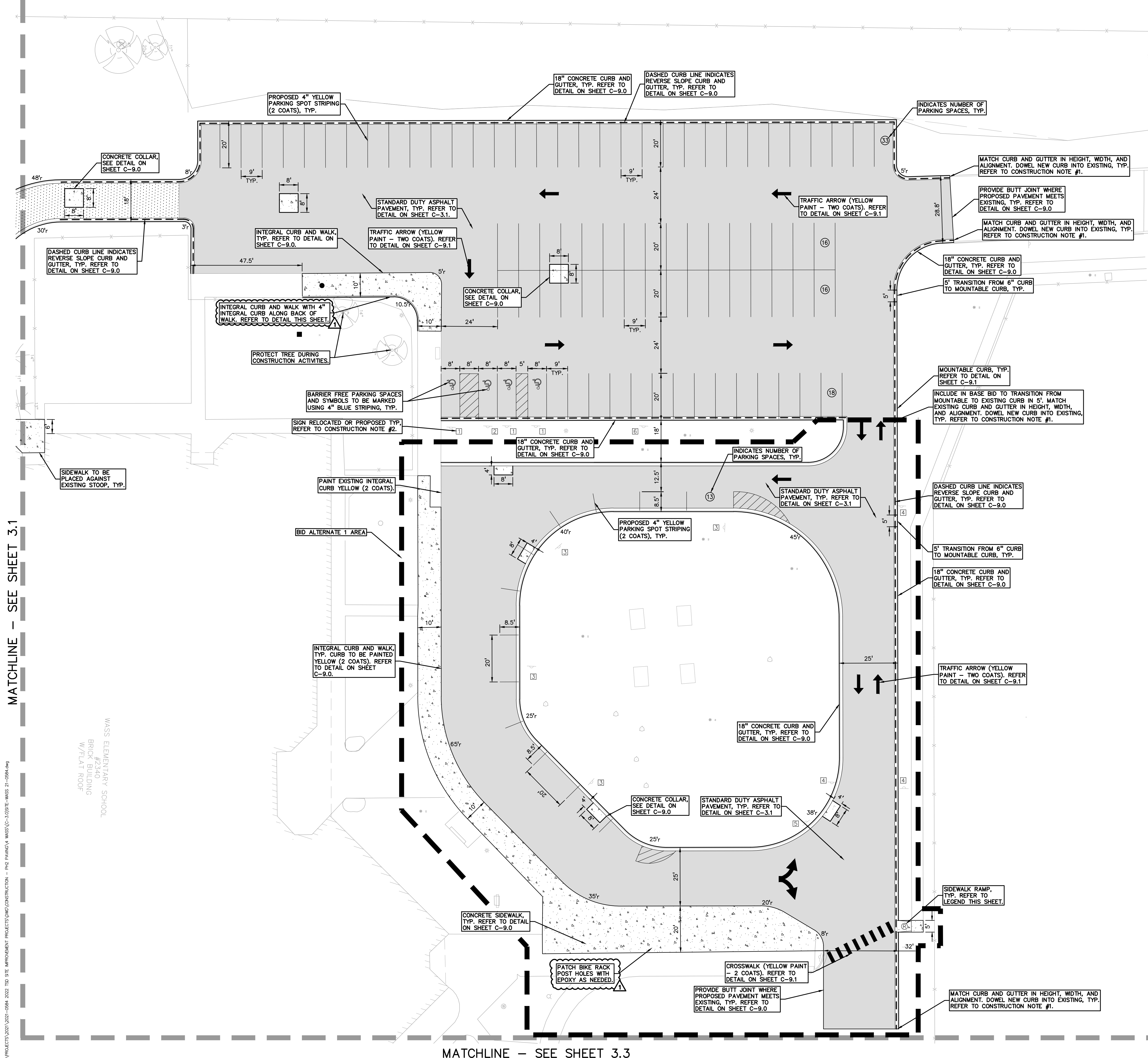
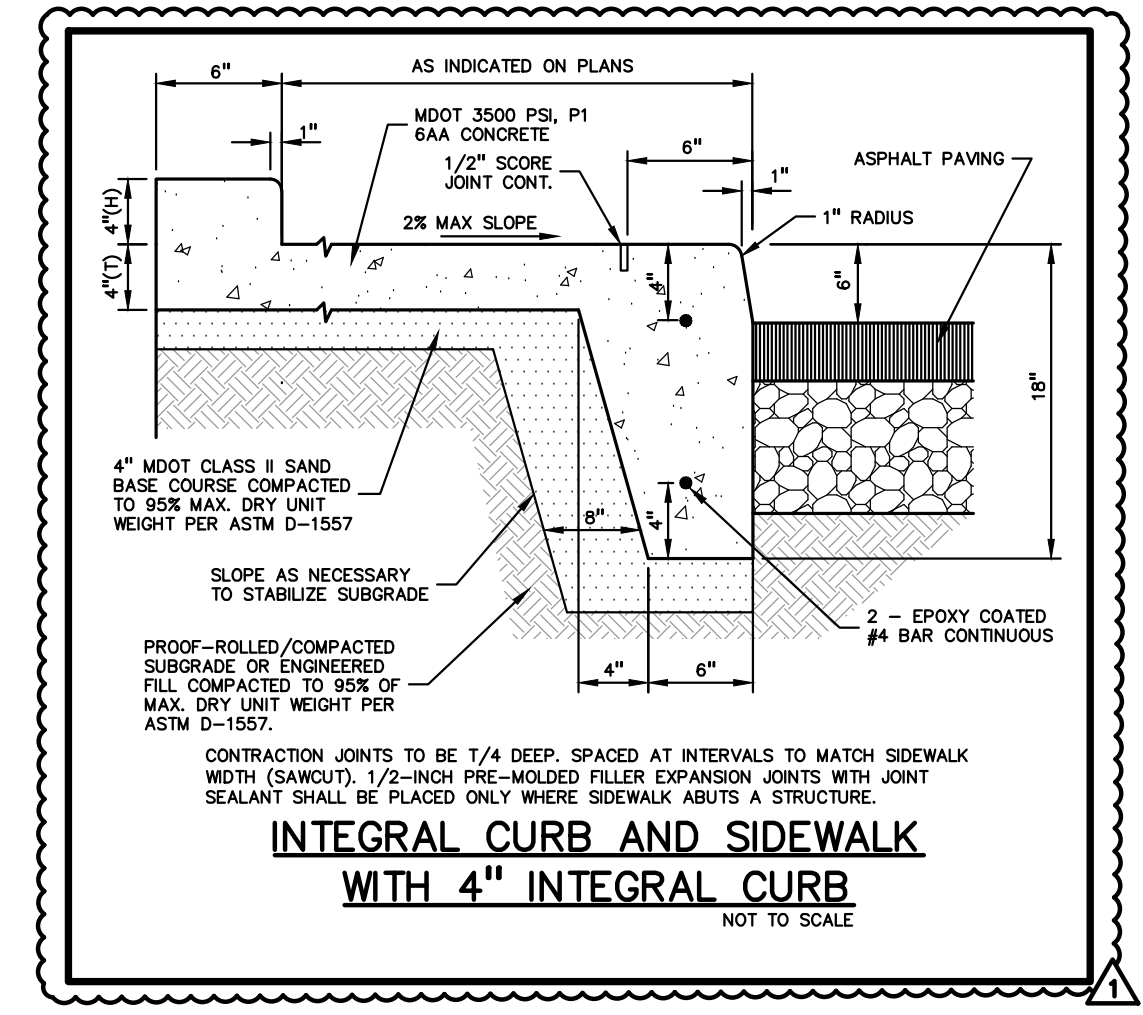
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.

NOTES:

- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- ALL PROPOSED ADA RAMPS SHALL HAVE TRUNCATED DOMES, PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
- THE QUANTITY FOR SUBGRADE UNDERCUT ON SHEET C-3.0 FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

CONSTRUCTION NOTES:

- DOWEL INTO EXISTING CURB AND GUTTER 9" WITH #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
- EXISTING SIGNS THAT CAN BE SALVAGED SHALL BE RE-USED AND NEW SIGNS SHALL BE PROVIDED AS NEEDED.



MATCHLINE - SEE SHEET 3.1

MATCHLINE - SEE SHEET 3.3

NOT FOR CONSTRUCTION **C-3.2**

S:\PROJECTS\2021\0584-0584-2022-TSD-ITE-IMPROVEMENT-PROJECTS\CONSTRUCTION - P&E\PAVING\WASS\C-3.0\BIC-WASS-21-0584.dwg

S:\PROJECTS\2021-0504-2022-TSD-BTE-IMPROVEMENT-PROJECTS\BTE\CONSTRUCTION - PHE PARKWAY MISS(C)-4-0222-WAS-21-0284.dwg

LEGEND

● IRON FOUND	⊕ BRASS PLUG SET	⊕ SEC. CORNER FOUND
⊕ IRON SET	⊕ MONUMENT FOUND	⊕ R RECORDED
⊕ NAL FOUND	⊕ MONUMENT SET	⊕ M MEASURED
⊕ NAL & CAP SET		⊕ C CALCULATED

EXISTING

- OH-ELEC: WIRE, POLE & GUY WIRE
- UG-CATV: UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE: TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC: ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS VALVE & GAS LINE MARKER
- WATERMAN, HYD., GATE VALVE, TAPPING BLEED & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MALBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
- WETLAND

PROPOSED

- PROPOSED SPOT ELEVATION
- TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES
- PROPOSED CONTOUR LINE
- ABBREVIATIONS:
 - T/C = TOP OF CURB
 - G = GUTTER GRADE
 - T/P = TOP OF PAVEMENT
 - T/S = TOP OF SIDEWALK
 - T/W = TOP OF WALL
 - B/W = BOTTOM OF WALL
 - F.O. = FINISH GRADE
 - RIM = RIM ELEVATION

0 10 20 40

SCALE: 1" = 20'

NORTH

811 Know what's below. Call before you dig.

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C-X.1 C-X.2

C-X.3

CLIENT

TROY SCHOOLS

1140 RANKIN
TROY, MI 48063

PROJECT TITLE

WASS ELEMENTARY SCHOOLS

2340 WILLARD DRIVE, TROY, MI

REVISIONS

OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

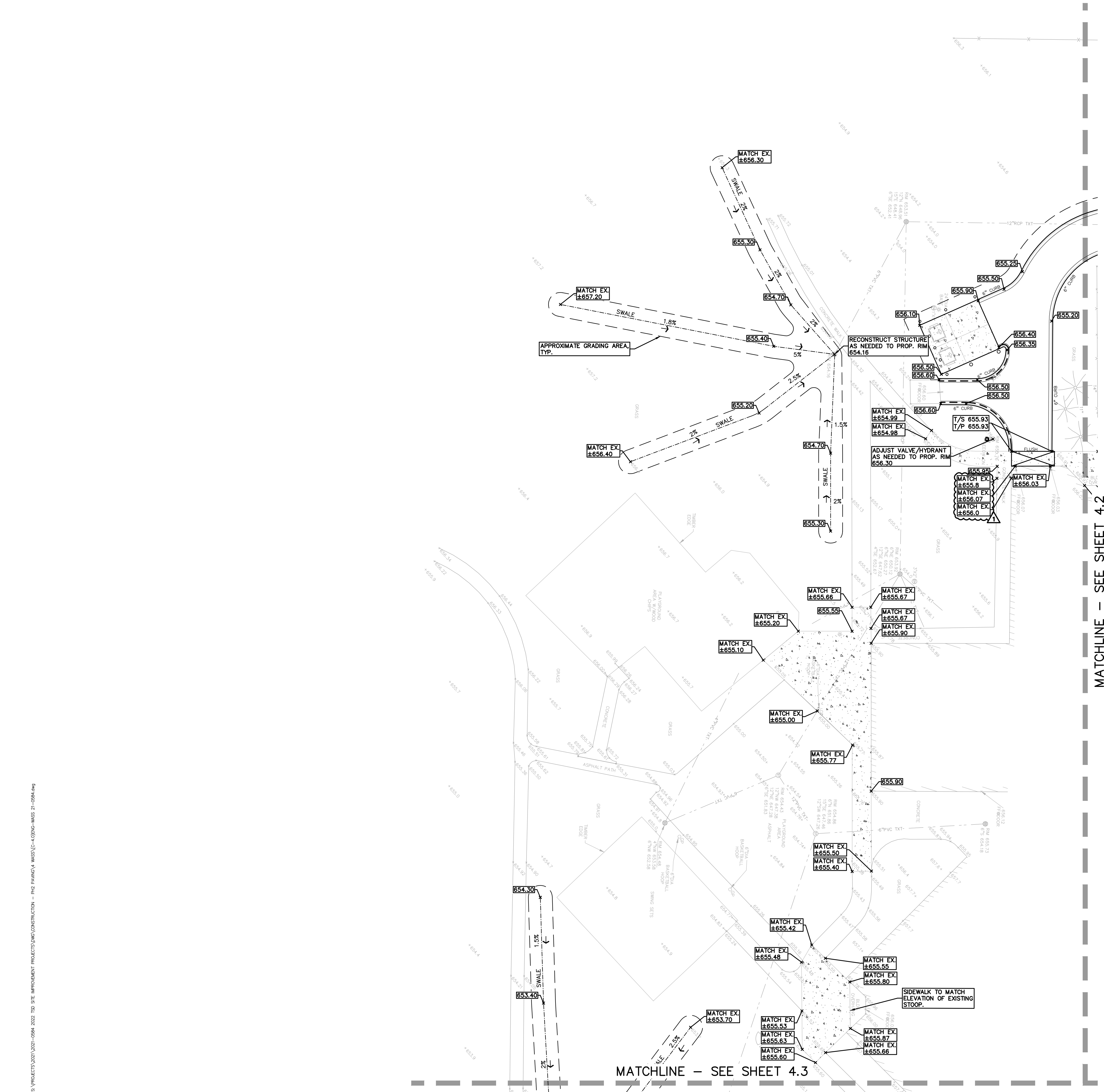
ORIGINAL ISSUE DATE:

JANUARY 6, 2022

DRAWING TITLE

ENGINEERING PLAN-SOUTHWEST

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	



SYMBOLS: GRADING

PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES

PROPOSED CONTOUR LINE

ABBREVIATIONS:

- T/C = TOP OF CURB
- G = GUTTER GRADE
- T/P = TOP OF PAVEMENT
- T/S = TOP OF SIDEWALK
- T/W = TOP OF WALL
- B/W = BOTTOM OF WALL
- F.O. = FINISH GRADE
- RIM = RIM ELEVATION

- CONSTRUCTION NOTES:**
- FOR THE DRAINAGE STRUCTURES LOCATED IN THE PAVEMENT WORK AREAS; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

- NOTE:**
- PER THE 'SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE PER THE PROJECT SPECIFICATIONS; PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL BOARD OR PEA GROUP, TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
 - CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATION TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
 - DISTRICT TO REVIEW SITE IN THE SPRING TO DETERMINE ANY GRASS AREAS AND IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION INCLUDING INGRESS/EGRESS AREAS TO THE PONDS. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DAMAGED AREAS AND IRRIGATION SYSTEM TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE DISTRICT.

STORM SEWER FRAME & COVER NOTES

CATCH BASIN IN PAVEMENT
EJIW #5105 WITH M2 GRATE

CATCH BASIN NOT IN PAVED AREA
EJIW #1040 WITH TYPE M GRATE

CATCH BASIN/INLET IN LANDSCAPED AREAS
EJIW #1040 WITH TYPE O2 BEEHIVE GRATE

MANHOLE
EJIW #1040 WITH TYPE C PERFORATED COVER

NOTE:

CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC

ENGINEERING QUANTITIES:

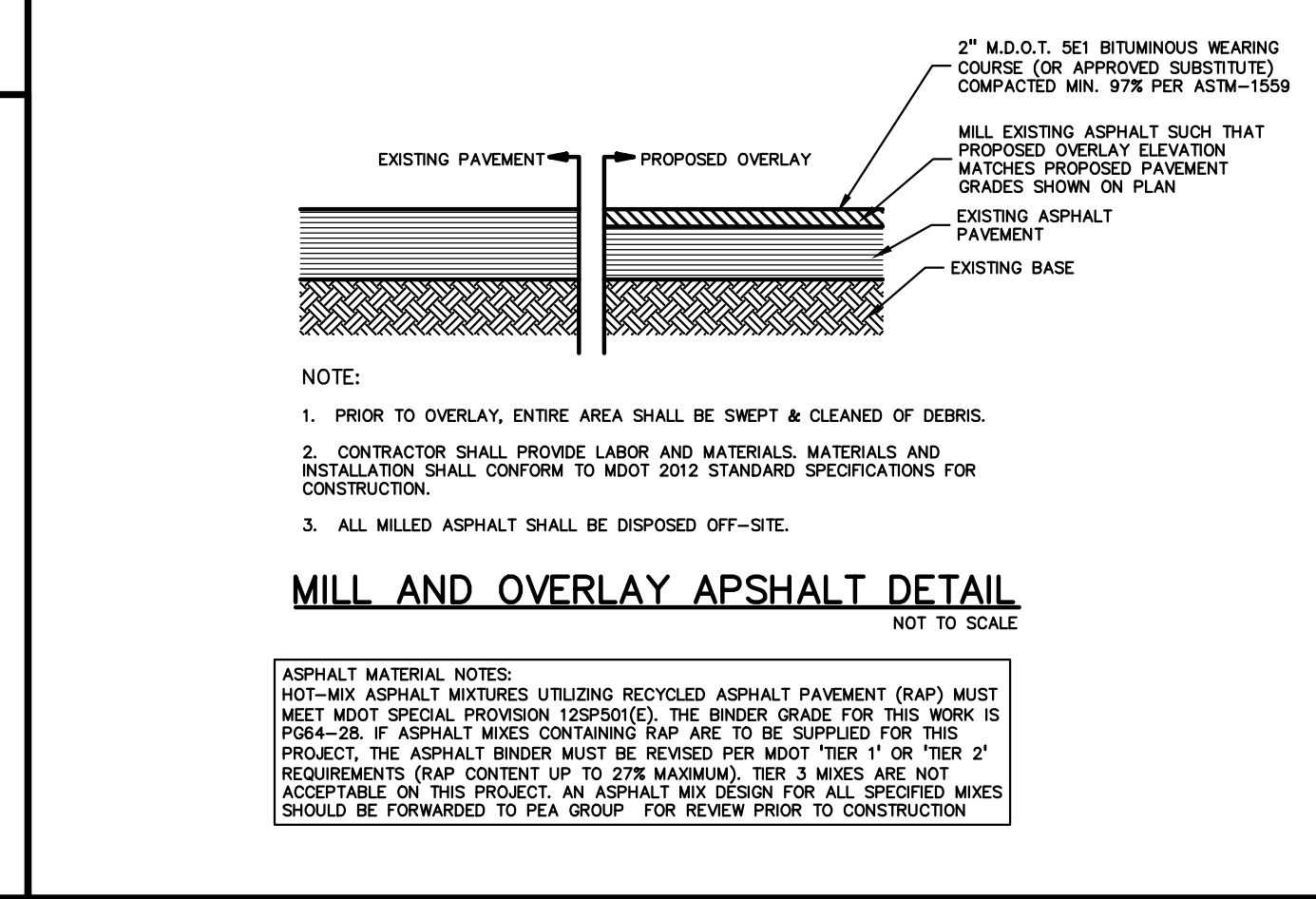
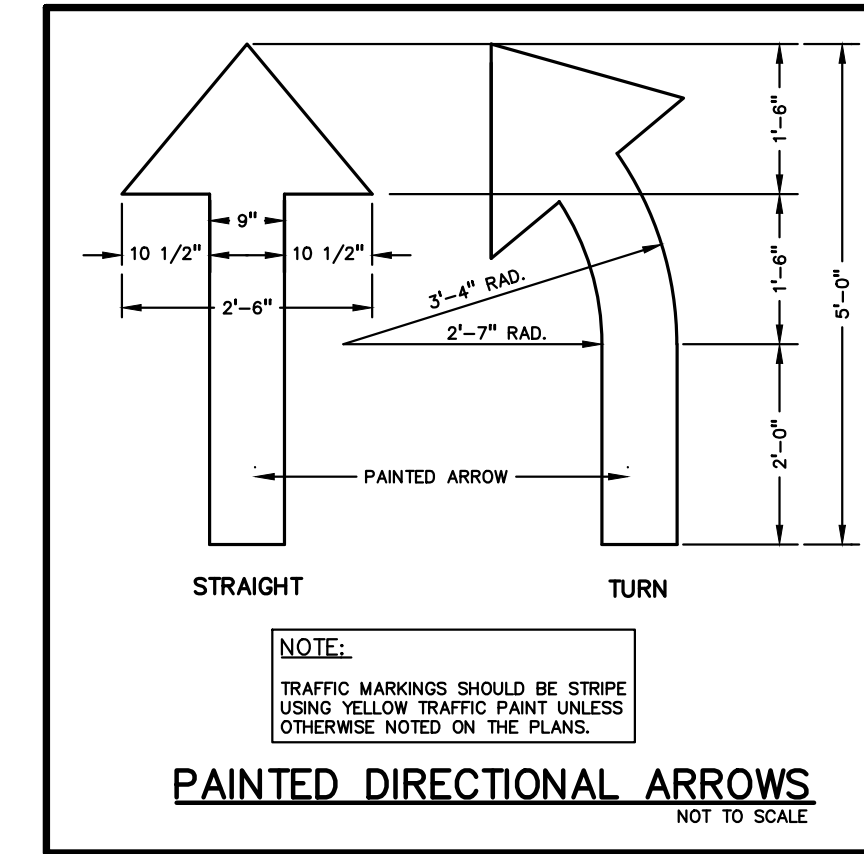
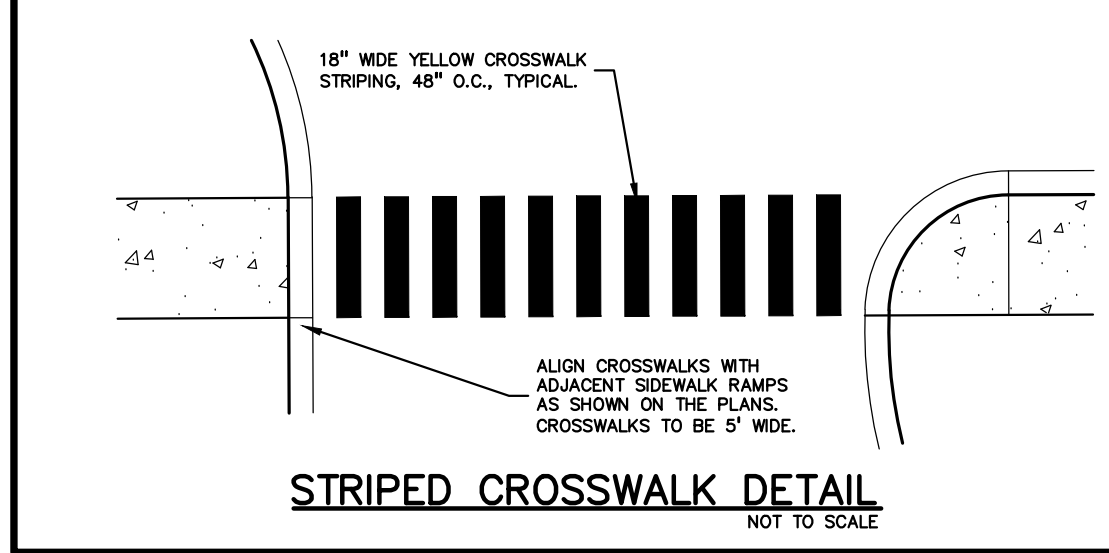
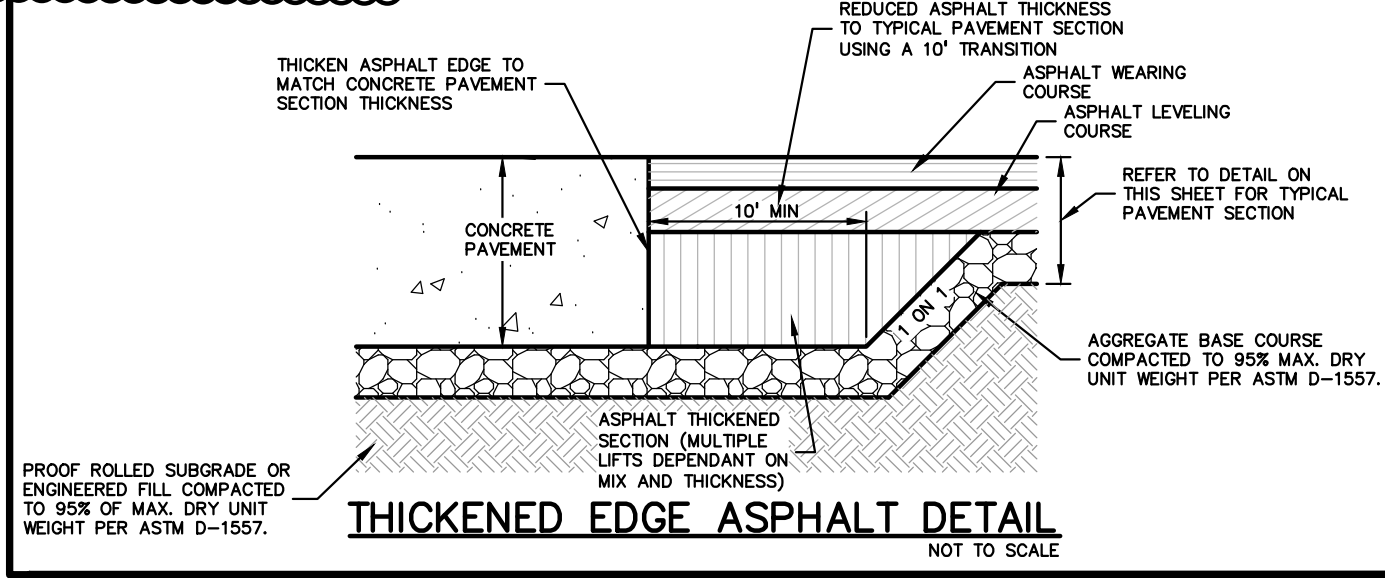
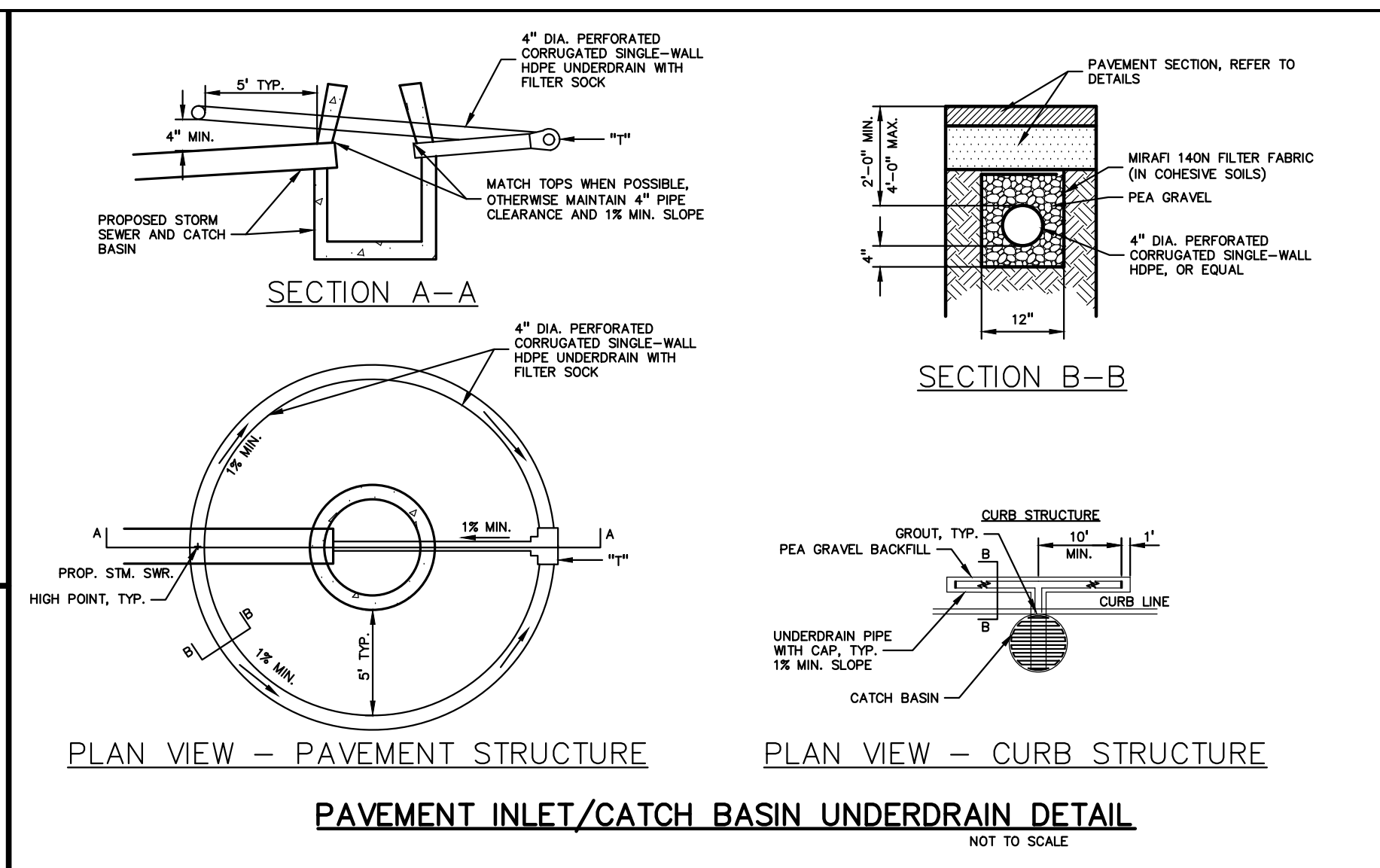
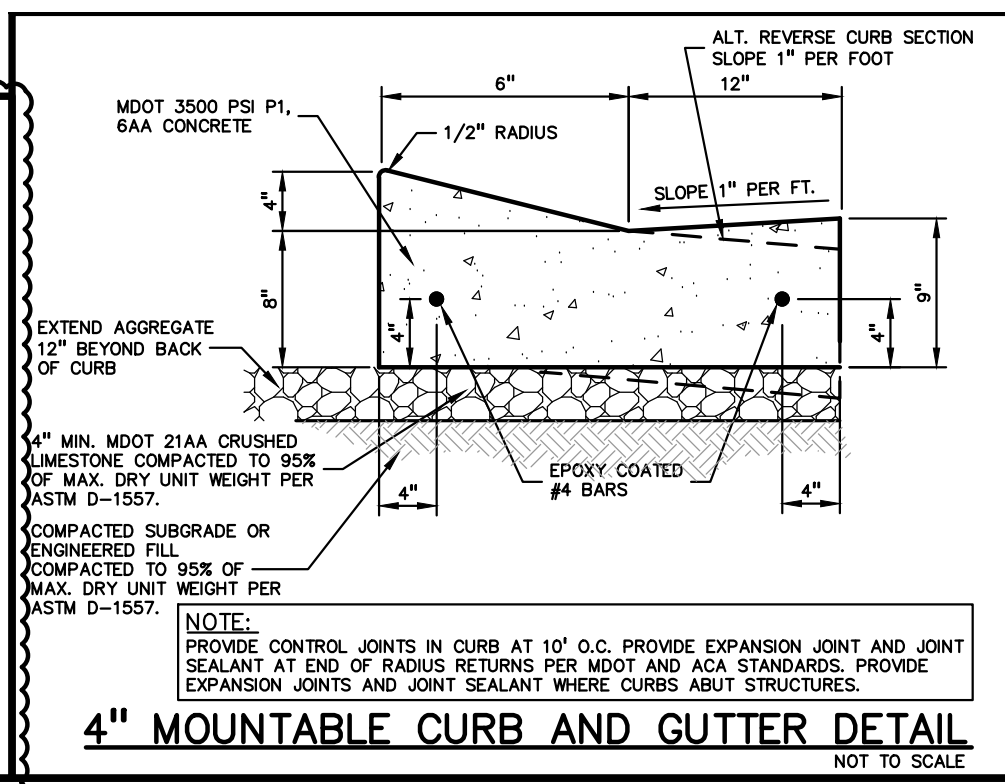
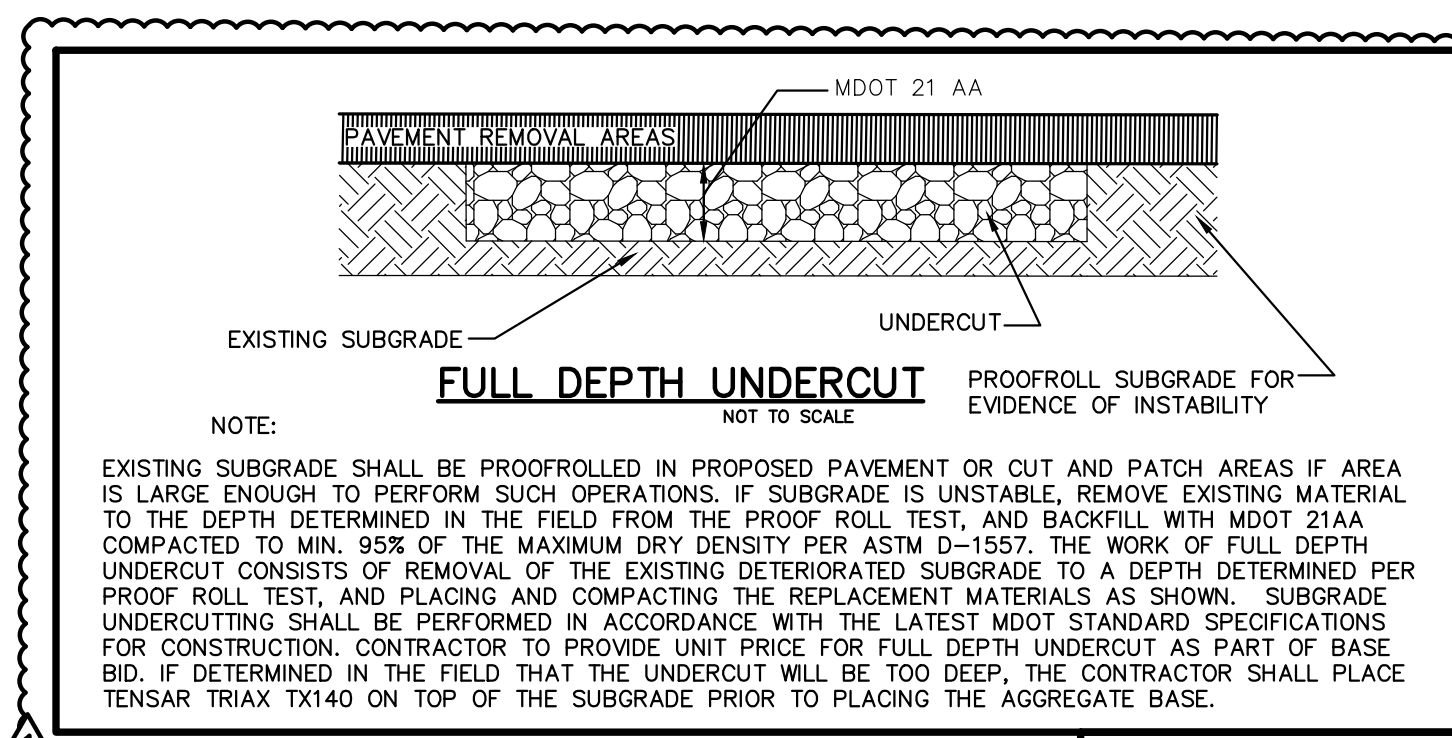
4" HDPE PERF. UNDERDRAIN	120 LF
6" PVC SDR 26	95 LF
8" PVC SDR 26	51 LF
2' DIA. INLET	3 EA.
4' DIA. MANHOLE	1 EA.
ADJUST EXISTING CATCH BASIN	5 EA.
ADJUST EXISTING HYDRANT ASSEMBLY	1 EA.
TAP EXISTING STRUCTURE	2 EA.

BID ALTERNATE #1 ENGINEERING QUANTITIES:

ADJUST EXISTING CATCH BASIN	4 EA.
4" HDPE PERF. UNDERDRAIN	80 LF

NOT FOR CONSTRUCTION

C-4.1



811 Know what's below. Call before you dig.

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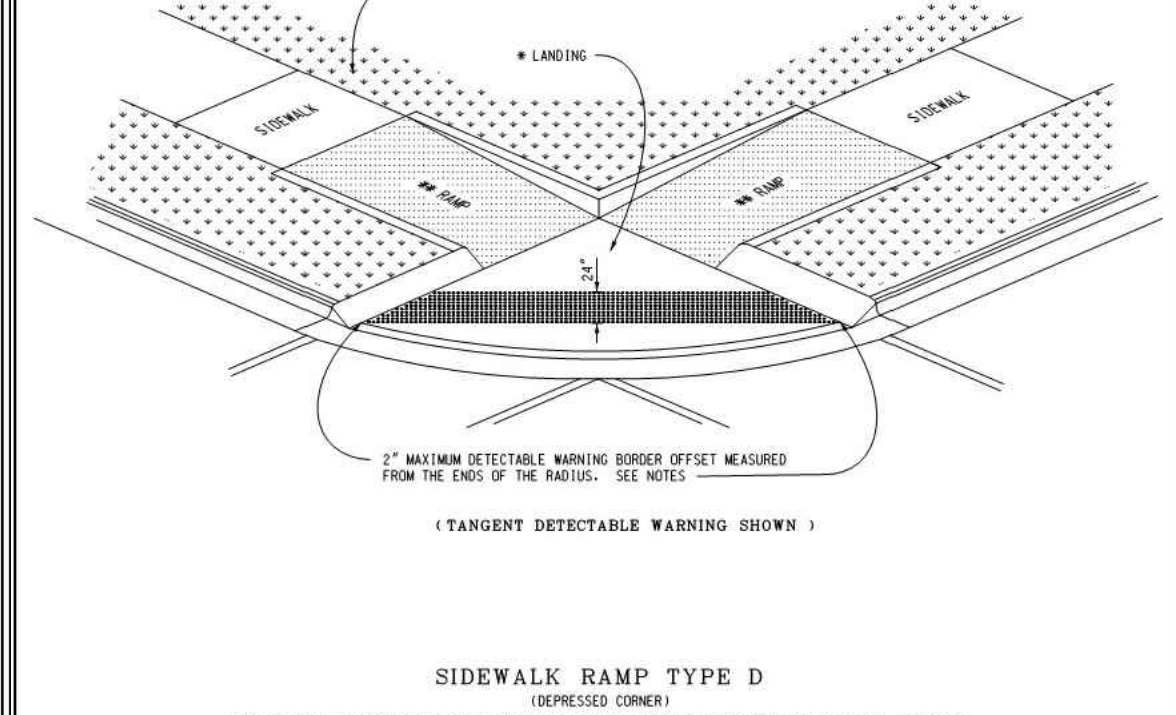
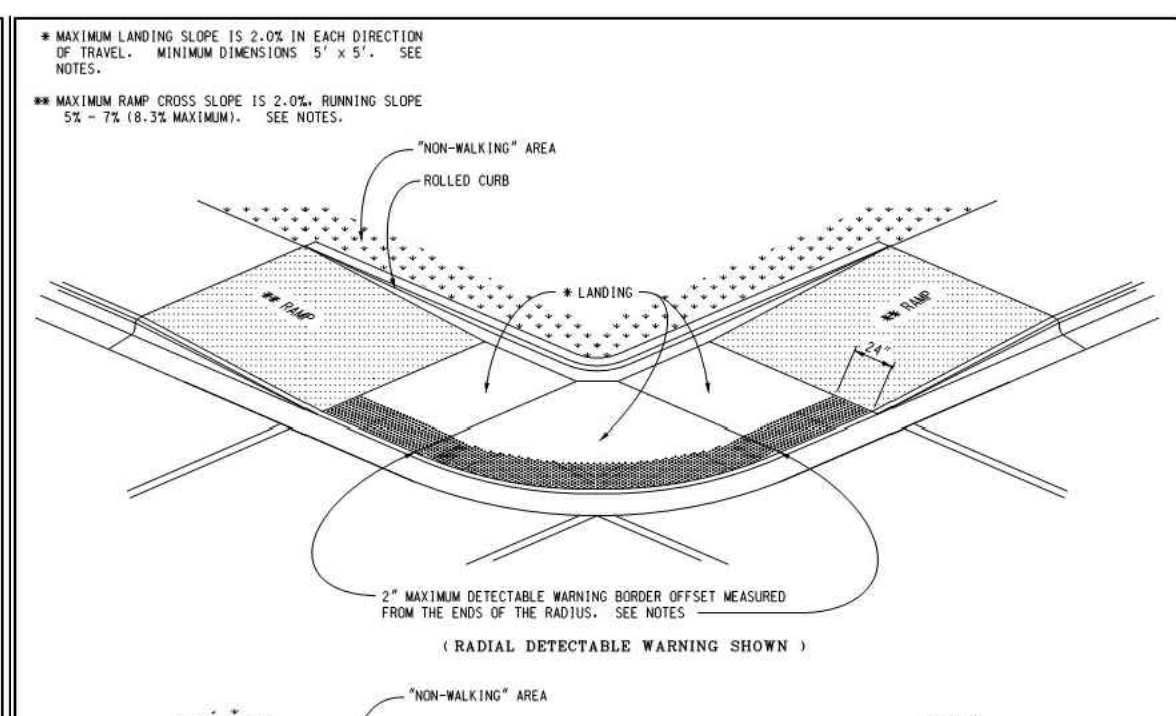
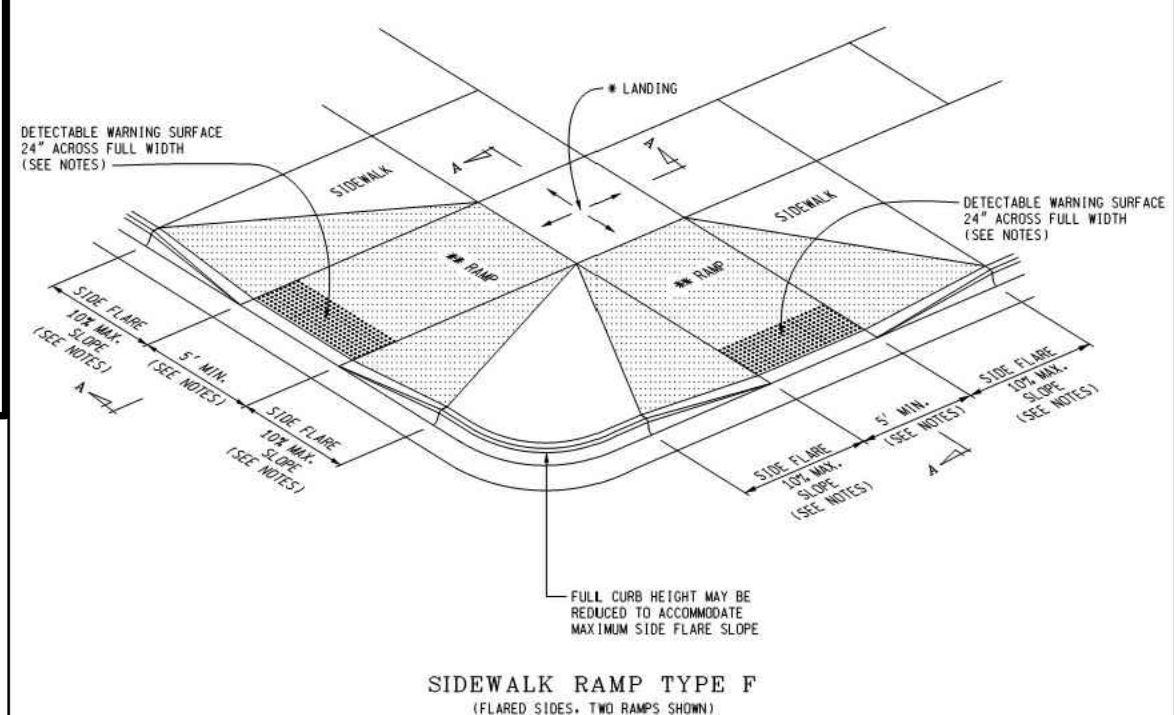
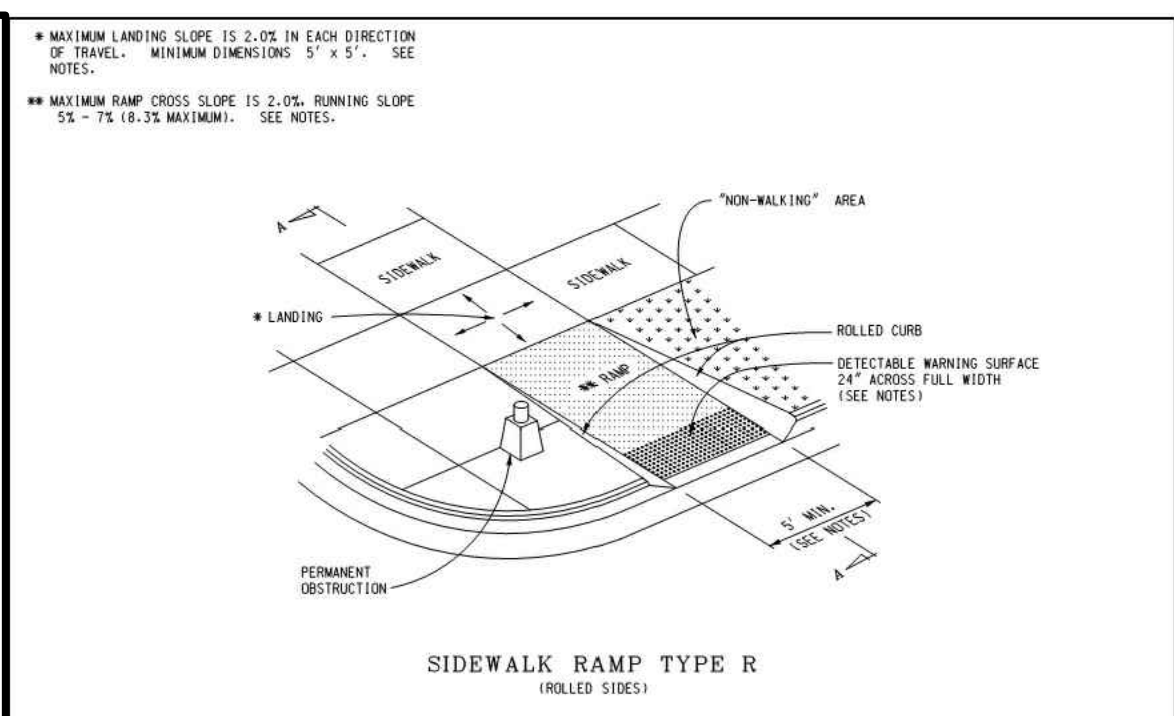
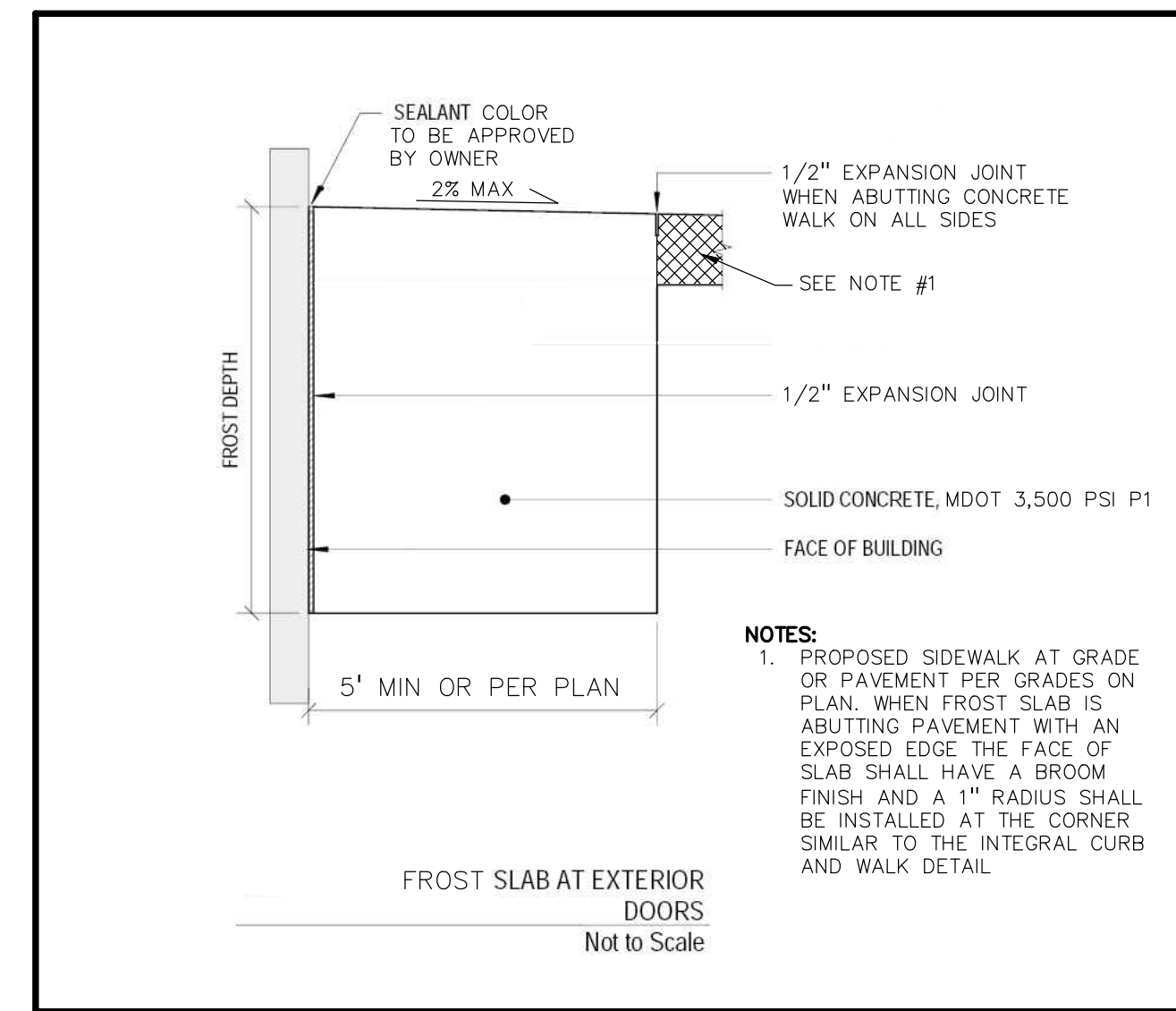
CLIENT
TROY SCHOOLS
1140 RANKIN
TROY, MI 48063

PROJECT TITLE
2022 TSD SITE IMPROVEMENTS - PAVING PROJECTS
1140 RANKIN DRIVE, TROY, MI

REVISIONS	
OUT TO BID	01/06/2022
1 - ADDENDUM 1	01/20/2022

ORIGINAL ISSUE DATE:
JANUARY 6, 2022
DRAWING TITLE
DETAILS

PEA JOB NO.	2021-0584
P.M.	RR
DN.	KMM
DES.	JDS
DRAWING NUMBER:	



MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR SIDEWALK RAMP AND DETECTABLE WARNING DETAILS
DEPARTMENT DIRECTOR KIA T. BOGGS	DEPARTMENT DIRECTOR KIA T. BOGGS
PREPARED BY DESIGN DIVISION DRAWN BY: B.J.S.T. CHECKED BY: B.J.S.T.	APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT
6-27-2017 PLAN DATE	6-27-2017 PLAN DATE
R-28-J SHEET 1 OF 1	R-28-J SHEET 4 OF 1



DUE: 11:00 AM Local Time, Tuesday, January 25, 2022
PROPOSAL: BID 9934 Troy School District 2022 Paving Program

PROPOSAL FORM

We propose to furnish all material, labor and equipment, as per the specifications, for the Troy School District and all other services to complete BID 9911 Troy School District Paving Program.

PROJECT #1 – HAMILTON ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 250 Cubic Yards: \$ _____

Allowance Amount Project #1: \$ 5,000.00

Grand Total Project #1 - \$ _____

PROJECT #2 – MARTELL ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 250 Cubic Yards: \$ _____

Allowance Amount: \$ 10,000.00

Grand Total Project #2 - \$ _____

PROJECT #3 – WASS ELEMENTARY SCHOOL

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 175 Cubic Yards: \$ _____

Allowance Amount Project #1: \$ 5,000.00

Grand Total Project #3 - \$ _____

PROJECT #4 – FACILITIES AND OPERATIONS BUILDING

Base Bid Amount: \$ _____

Bond Amount: \$ _____

Undercut Allowance of 100 Cubic Yards: \$ _____

Allowance Amount: \$ 5,000.00

Grand Total Project #4 - \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Combined Bid Amount if Award Projects _____ \$ _____

Alternate #1. Wass Elementary School. Removal & Replacement of the pavement and associated work for the entrance loop \$ _____

Alternate #2. Facilities and Operations Building. Provide cost to replace with 4' catch basin per City of Troy standards. Refer to drawing Facilities and Operations Building Drawing C-4.0 Engineering Plan \$ _____

UNIT PRICING

<u>Description</u>	<u>Units</u>	<u>Unit Price</u>
Remove Sidewalk	SF	\$ _____
Remove Asphalt Pavement	SF	\$ _____
Remove Concrete Pavement	SF	\$ _____
Remove Curbing	LF	\$ _____
Remove Concrete Stoop	EA	\$ _____
Sawcut Pavement	LF	\$ _____
Cold Milling Bituminous Surface (1 ½")	SF	\$ _____
Mill and Pave 24" Wide Butt Joint	SF	\$ _____
Subgrade Undercutting	CY	\$ _____
4" HDPE Single Walled Underdrain with Sock	LF	\$ _____
6" HDPE Single Walled Underdrain with Sock	LF	\$ _____
6" PVC SDR 26 Storm Sewer	LF	\$ _____
8" PVC SDR 26 Storm Sewer	LF	\$ _____
10" PVC SDR 26 Storm Sewer	LF	\$ _____
12" RCP Storm Sewer	LF	\$ _____
15" RCP Storm Sewer	LF	\$ _____
18" RCP Storm Sewer	LF	\$ _____
24" RCP Storm Sewer	LF	\$ _____
Adjust Fire Hydrant	EA	\$ _____
Adjust Utility Manhole/Catch Basin (12-Inches or Less)	EA	\$ _____
Adjust Non Manhole Utility Structure (12-Inches or Less)	EA	\$ _____
Reconstruct Utility Manhole/Catch Basin (After 1 st 12-Inches)	VF	\$ _____
Replace Manhole/Catch Basin Frame and Cover	EA	\$ _____
Replace Non-Manhole Utility Cover/Box	EA	\$ _____
18" MDOT 3,500 P1 Concrete Curb & Gutter w/4" Agg. Base	LF	\$ _____
24" Mountable MDOT 3,500 P1 Concrete Curb w/4" Agg. Base	LF	\$ _____
4" Integral MDOT 3,500 P1 Concrete Sidewalk Curb w/4" Sand Base	SF	\$ _____

UNIT PRICING CONT.

<u>Description</u>	<u>Units</u>	<u>Unit Price</u>
4" MDOT 3,500 P1 Concrete Sidewalk w/4" Sand Base	SF	\$ _____
4" MDOT 3,500 P1 Concrete Pavement	SY	\$ _____
MDOT 3,500 P1 Concrete Stoop	EA	\$ _____
1.5" MDOT 5E1 Asphalt Overlay	SY	\$ _____
3" Playground MDOT 36/13A Asphalt Pavement	SY	\$ _____
4" MDOT 5EML/4ELM Asphalt Pavement	SY	\$ _____
5" MDOT 5EML/4EML Asphalt Pavement	SY	\$ _____
6" 21AA Aggregate (CIP)	SY	\$ _____
8" 21AA Aggregate (CIP)	SY	\$ _____
10" 21AA Aggregate (CIP)	SY	\$ _____
1" x 3" Crushed Concrete Aggregate (CIP)	SY	\$ _____
Coal Tar Sealcoat (2 coats)	SF	\$ _____
Asphalt Joint & Crack Routing & Sealing	LF	\$ _____
6" Steel Bollard – Concrete Filled	EA	\$ _____
Playground Striping (2 coats)	LF	\$ _____
Parking Lot Striping (2 coats)	LF	\$ _____
Parking Lot Symbols (Arrows, Stop, Etc.) (2 coats)	LF	\$ _____
Cross Walk Hatching (2 coats)	EA	\$ _____
Add Parking Lot Striping (2 coats)	LF	\$ _____
Add Parking Symbols (2 coats)	EA	\$ _____
Signage (Stop, Yield, PED Crossing, Etc.) with Post Only	EA	\$ _____
Signage (Stop, Yield, PED Crossing, Etc.) with Post/Bollard	EA	\$ _____
ADA Sign with Post/Bollard	EA	\$ _____
Concrete stoop for a 48" Wide Door Including Excavation	EA	\$ _____
Concrete stoop for a 66" Wide Door Including Excavation	EA	\$ _____
Tensar Tri-Axial Geo-Grid	SF	\$ _____

NOTE: Unit prices are for work items to be added or removed from the contract

BIDDER'S FIRM NAME _____

ADDRESS _____

CITY/STATE _____ ZIP _____

CELL NUMBER _____ FAX # _____

SIGNED BY _____ TITLE _____

TYPED NAME _____ DATE _____

E-MAIL ADDRESS _____

VENDOR: LIST FIVE RECENT REFERENCES, PREFERABLY SCHOOL DISTRICTS:

School District	Person to Contact	Phone Number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Interested vendors will note in this space only any additional information, criteria or contingencies affecting their proposal, understanding that this additional information, criteria or contingency may be utilized in the evaluation process and subsequent award.

**SWORN AND NOTARIZED FAMILIAL DISCLOSURE STATEMENT
FAMILIAR DISCLOSURE AFFIDAVIT**

The undersigned, the owner or authorized office of the below-named contractor (the ‘Contractor’), pursuant to the familial disclosure requirement provided to Troy Schools, hereby represents and warrants that, excepts as provided below, no familial relationship exists between the owner or key employee of the Contractor, and any member of the Troy School Board or the Troy School Superintendent. A list of the School District’s Board of Education Members and its Superintendent may be found at <http://www.troy.k12.mi.us>.

List any Familial Relationships:

Contractor:

Print Name of Contractor

By: _____

Its: _____

Subscribed and sworn before me, this _____ Seal:

day of _____, 20 _____, a Notary Public

in and for _____ County, _____

(Signature)
NOTARY PUBLIC

My Commission expires _____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT

Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named Company, pursuant to the compliance certification requirement provided in Troy School District’s Request For Proposal, the “RFP”, hereby certifies, represents, and warrants that the Company and its officers, directors and employees, is not an “Iran Linked Business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event the Company is awarded a contract by Troy School District as a result of the aforementioned RFP, the Company is not and will not become an “Iran Linked Business” at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of Troy School District’s investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date the it is determined that the person has submitted the false certification.

NAME OF COMPANY

NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

SIGNATURE

DATE

Acceptance of Proposal

The undersigned agrees to execute a Contract for work covered by this Proposal provided that he is notified of its acceptance within thirty days after the opening of the Proposal.

It is agreed that this bid will not be withdrawn until after forty-five (45) days after receipt of bids.

The undersigned affirms that the bid was developed without any collusion, undertaking, or agreement, either directly or indirectly, with any other bidder(s) to maintain the prices of indicated work or prevent any other bidder(s) from bidding the work.

BIDDER'S FIRM NAME _____

BUSINESS ADDRESS _____

TELEPHONE NUMBER _____

CELL NUMBER _____

FAX NUMBER _____

BY (SIGNATURE) _____

PRINTED NAME _____

TITLE _____

SIGNED THIS _____ DAY OF _____, 20 _____

E-MAIL ADDRESS _____

**Bid Tabulation
 Bid 9934
 Paving Program 2022**

Vendors	Project 1 Hamilton Elementary	Project 2 Martell Elementary	Project 3 Wass Elementary	Project 4 Operation Building	Alternate #1 Wass Elementary Enhanced Entrance Loop	Alternate #2 Operation Building Replace 4' Catch Basin
Asphalt Specialists	\$ 612,000	\$ 664,000	\$ 429,000	\$ 288,500	\$205,000	\$8,000
Nagle Paving Company	\$ 524,990	\$ 562,990	\$ 391,325	\$ 283,950	\$175,800	\$12,000