

Addendum No. 1

Owner: Gerald R. Ford International Airport Authority

Project Title: Natural Treatment System Maintenance, Phase 2

Project #: C-449 (2250383)

Date of Addendum: October 30, 2026

Notice to Prospective Bidders

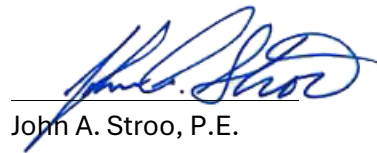
In accordance with Article 1 of the General Conditions, this Addendum is hereby issued as part of the Contract Documents.

1. **REPLACE** the Exhibit A – Bid Form included in the RFB 2625 Contract DOC-Draft as Pages 12, 13 and unnumbered with the ten (10) page Exhibit A – Bid Form included with this addendum. The modified bid form includes a commitment, participation, and affidavit for DBE as well as a Buy American and Tax/Felony disclosure forms.
2. **REPLACE** the Agreement Between Owner and Contractor for Construction Contract (Stipulated Price) included in the RFB 2625 Contract DOC-Draft as Pages 1 through 8 of 8 (pages 15 through 22 of the PDF), with Agreement Between Owner and Contractor for Construction Contract (Stipulated Price), pages 1 through 8 of 8, included with this addendum.
3. **REPLACE** Specification 01 22 00, Unit Prices, pages 1 through 4 of 4 included with this addendum.
4. **ADD** Table of Contents, pages 1 of 1 included with this addendum.
5. **REPLACE** Specification 02 10 00, Natural Treatment System, with pages 1 through 6 of 6 included with this addendum.
6. **REPLACE** Specification 02 41 00, Demolition, with pages 1 through 6 of 6 included with this addendum.
7. **REPLACE** Specification 02 94 10, Treatment Media, with pages 1 through 9 of 9 included with this addendum.
 - a. **ADD** the following to Part 2.A as 2.A.3: “Material certified by the aggregate supplier with a loss by washing of less than 0.5 percent at the time of shipping from the source will be accepted without additional washing onsite.”
 - b. **ADD** the following to Part 2.C as 2.C.1: “Material certified by the aggregate supplier with a loss by washing of less than 0.5 percent at the time of shipping from the source will be accepted without additional washing onsite.”
8. **REPLACE** Specification 40 27 00, Process Piping and Specialties, with pages 1 through 8 of 8 and Supplements 1-1 and 2-1 included with this addendum.
9. **REPLACE** Specification 40 27 02, Process Valves and Operators, with pages 1 through 9 of 9 and Supplement -1 included with this addendum.
10. **REPLACE** Specification 40 80 01, Process Piping Leakage Testing, with pages 1 through 5 of 5 included with this addendum.
11. **ADD** General Decision Number: MI20260001 6/25/26 (Davis Bacon Wage Rates) pages 1 through 55 of 55 included with this addendum.

12. **REPLACE** drawings posted as “Drawings C-449 NTS Maint Ph 2 100pct(1).pdf” with the following drawings included with this addendum.

- a. G-000 with stamp, signature and sheet index modifications.
- b. G-001 with road and storage area restoration added.
- c. G-002 with typo corrected in Note 2.
- d. C-000 with information added for clarity.
- e. C-001 with corrected cell references, stamp and signature.
- f. C-002 with stamp and signature.
- g. C-100 with stamp and signature.
- h. C-101 with updated Notes C and E, stamp and signature.
- i. C-102 with updated Notes C and E, stamp and signature.
- j. C-103 with crushed rock around splash pads, stamp and signature.
- k. C-104 with crushed rock around splash pads, stamp and signature.
- l. C-105 with modified material reference and hatching, added Note 4, stamp and signature.
- m. C-106 with modified material reference and hatching, added Note 4, stamp and signature.
- n. C-201 with stamp and signature.
- o. C-202 with stamp and signature.
- p. C-203 with stamp and signature.
- q. C-204 (formerly C-210) with corrected cell references, stamp and signature.
- r. C-210 (formerly C-212) with deleted item (driveway), additional concrete joint information, renamed pay item for TSS treatment unit, added concrete reinforcement, added proposed cell information, added/modified labels for clarity, revised Construction Note 4.1 and deleted Note 4.2.
- s. C-211 with revised date.
- t. C-501 with, splash pad thickness, crushed rock around splash pads, stamp and signature.
- u. C-502 with stamp and signature.

13. **ADD** minutes from the voluntary On-Site Conference held on Oct. 27, 2026.



John A. Stroo, P.E.

Enclosures: As previously indicated

EXHIBITS

Exhibit A – Bid Form

The undersigned, being familiar with the site, plans, specifications, and related documents, proposes to furnish all required labor, materials, tools and equipment to construct the project in accordance with the [unit prices/lump sum] on the following sheets.

Date Prepared: _____

Receipt of Addenda _____ through _____ is hereby acknowledged.

Summary of Bids

Total Bid \$ _____

The Owner reserves the right to accept or reject any or reject any or all bids and to waive any irregularities in the bidding. No partial bids will be accepted.

Contractors Signature

Contractor's Name	Email Address	Telephone Number
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Business Address	City	Zip Code
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Printed Name	Title	Date
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Signature

Seal (if bidder is a corporation)

Bid Proposal

Owner:	Gerald R. Ford International Airport Authority		
Owner Address:	5500 44th Street SE, Grand Rapids, MI, 49512		
Project Title:	Natural Treatment System Maintenance, Phase 2		
Bid Date & Time:	November 10, 2026 @ 2:00 pm	Project #:	C-449 (2250383)

The undersigned, being familiar with the site, plans, specifications, and related documents, proposes to furnish all required labor, materials, tools and equipment to construct the project in accordance with the [unit prices/lump sum] on the following sheets.

Date Prepared: _____

Receipt of Addenda

Receipt of Addenda _____ through _____ is hereby acknowledged.

Summary of Bids

Total Bid \$ _____

The Owner reserves the right to accept or reject any or reject any or all bids and to waive any irregularities in the bidding. No partial bids will be accepted.

Contractors Signature

Contractor's Name	Email Address	Telephone Number
Business Address	City	Zip Code
Printed Name	Title	Date
Signature _____		
Seal (if bidder is a corporation)		

Bid Proposal - Unit Prices

Owner:

Gerald R. Ford International Airport Authority

Project Title:

Natural Treatment System Maintenance, Phase 2

Bid Date & Time:

Nov. 10, 2026 @ 2:00 pm

Project #:

C-449 (2250383)

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
1	Mobilization, Max 10%	1	Lsum		
2	Safety and Security	1	Lsum		
3	Permits	2,500	DLR	\$1.00	\$2,500.00
4	Curb and Gutter, Rem	20	Ft		
5	Erosion Control, Inlet Protection, Fabric Drop	8	Ea		
6	Erosion Control, Silt Fence	500	Ft		
7	Excavation, Earth, As Specified	675	Cyd		
8	Aggregate Base, Conditioning	500	Syd		
9	Aggregate Base Cse, 8 inch	400	Syd		
10	Dr Structure, TSS Treatment	1	Ea		
11	Conc, Grade 3500	95	Cyd		
12	Curb and Gutter, Conc, Det F4	20	Ft		
13	Riprap, Plain	90	Syd		
14	Fertilizer, Chemical Nutrient, CI B	150	Lb		
15	Mulch	2,000	Syd		
16	Mulch Anchoring	2,000	Syd		
17	Mulch Blanket, High Velocity	3,500	Syd		
18	Seeding, Mixture, as specified	250	Lb		

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
18	Seeding, Mixture, as specified	250	Lb		
19	Topsoil Surface, Salv, 4 Inch	5,500	Syd		
20	Treatment Media	4,550	Cyd		
21	Insulation Media (Wood Chips)	1,450	Cyd		
22	Course Media	300	Cyd		
23	Geotextile Fabric	112,000	Sft		
24	Gabion Basket	550	Lf		
25	Gabion 3" to 6" Rock	150	Cyd		
26	Splash Pad	16	Ea		
27	Piping	500	Lf		
28	Pipe Coupling	4	Ea		
29	R-Tanks Mini	1,450	Ea		
30	R-Tanks HD Single	1,450	Ea		
31	Media Removal	12,500	Cyd		
32	Piping Removal	6,350	Lf		
33	Infiltrator Removal	1,200	Ea		
34	Smart Drain	5	Ea		
				Total Bid:	

Disadvantaged Business Enterprise (DBE) Commitment Form

Owner: Gerald R. Ford International Airport Authority, Kent County, Michigan

Project Title: Natural Treatment System Maintenance, Phase 2

This page must be completed by the prime contractor to indicate the amount (percentage) of Disadvantaged Business Enterprise Participation.

The undersigned, as a representative of entity, _____, submitting a bid/proposal for the above referenced project, hereby acknowledges that the DBE goal established for this project is as identified in the Advertisement, as a percentage of the total cost of the contract.

Select from one of the two certifications noted below:

- ☐ The Bidder/Proposer commits to and further represents that the proposed level of DBE participation for this project is _____%.
- ☐ The Bidder/Proposer commits to and further represents that the proposed level of DBE participation for this project is _____%. However, this level of DBE participation is less than the goal established for this project. The Bidder/Proposer has attached:
- a. Subcontractor Participation Summary Form showing the level of DBE participation the Bidder/Proposer has been able to obtain, supplemented with Subcontractor Forms confirming the proposed participation of DBEs; and
 - b. Documentation of the Bidder/Proposer's Good Faith Efforts to achieve the goal established for this project. This documentation shall include enough to show that all necessary and reasonable steps were taken to achieve the DBE goal.

I hereby certify that the foregoing DBE commitment percentage for this project is true, correct, and complete, and is accordance with 49 CFR 26.

Authorized Representative (Print)

Title

Signature

Date

Disadvantaged Business Enterprise (DBE) Participation Statement

This page must be completed by the prime contractor to indicate the amount (percentage) of Disadvantaged Business Enterprise Participation.

The undersigned, bidder/offeror has satisfied the requirements of the bid specification in the following manner.

Select from one of the two certifications noted below:

- ☐ The Bidder/Proposer is committed to a minimum **zero (0%) percent** and meets or exceeds the DBE goal specified in the Advertisement as part of this Contract.
- ☐ The Bidder/Proposer, while unable to meet the DBE goal of **zero (0%) percent**, hereby commits to a minimum of _____% DBE participation on this Contract and also submits documentation, as an attachment, demonstrating good faith efforts (GFE) showing that all necessary and reasonable steps were taken to achieve the DBE utilization goal as required by 49 CFR Part 26.

I hereby certify that the foregoing DBE participation percentage for this project is true, correct, and complete, and is accordance with 49 CFR 26.

Bidder/Offeror's Firm Name

Signature

Date

DBE Participation Summary

	<i>Contract Amount</i>	<i>DBE Amount</i>	<i>Contract Percentage</i>
DBE Prime Contractor	\$ _____	\$ _____	_____%
DBE Subcontractor	\$ _____	\$ _____	_____%
DBE Manufacturer	\$ _____	\$ _____	_____%
DBE Regular Dealer (60%)	\$ _____	\$ _____	_____%
DBE Trucking	\$ _____	\$ _____	_____%
DBE Supply Broker (Fee)	\$ _____	\$ _____	_____%
DBE Truck Broker (Fee)	\$ _____	\$ _____	_____%
Total Amount DBE		\$ _____	_____%
DBE Goal		\$ _____	_____%

Disadvantaged Business Enterprise (DBE) Project Participation Affidavit

This page shall be submitted for each DBE firm/company. DBE firm/company shall submit evidence of their certification status (i.e. photocopy).

The bidder/offeror is committed to utilizing the below-named DBE for the work and estimated amount as shown below. In the event the bidder/offeror does not receive award of the prime contract, any and all representations in this Project Affidavit shall be null and void.

Work Item(s) to be Performed	Total Amount
	\$
	\$
	\$
	\$

Anticipated DBE Firm Amount (\$)	DBE Participation Rate (60% Regular Dealer) (100% All Others)	Anticipated DBE Firm Participation (\$)
\$	X	=

If DBE company is contracted through Subcontractor, fill out Subcontractor information in the table below.

Bidder/Offeror	Subcontractor	DBE Company
Company Name:	Company Name:	Company Name:
Address:	Address:	Address:
Phone:	Phone:	Phone:
Printed Name and Title:	Printed Name and Title:	Printed Name and Title:
Signature of Representative:	Signature of Representative:	Signature of Representative:
Date:	Date:	Date:

CERTIFICATE OF BUY AMERICAN COMPLIANCE – CONSTRUCTION PROJECTS

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101, BABA and other related Made in America Laws, U.S. statutes, guidance, and FAA policies, by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e., not both) by inserting a checkmark (✓) or the letter “X”.

- ☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101, BABA and other related U.S. statutes, guidance, and policies of the FAA by:
- a) Only installing iron, steel and manufactured products produced in the United States;
 - b) Only installing construction materials defined as: an article, material, or supply – other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives that are or consist primarily of non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); lumber or drywall that have been manufactured in the United States.
 - c) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
 - d) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- a) To provide to the Airport Sponsor or the FAA evidence that documents the source and origin of the iron, steel, and/or manufactured product.
- b) To faithfully comply with providing U.S. domestic products.
- c) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
- d) Certify that all construction materials used in the project are manufactured in the U.S.

- ☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To submit to the Airport Sponsor or FAA within 15 calendar days of being selected as the responsive bidder, a formal waiver request and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- d) To furnish U.S. domestic product for any waiver request that the FAA rejects.

- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 2 Waiver (Nonavailability) - The iron, steel, manufactured goods or construction materials or manufactured goods are not available in sufficient quantity or quality in the United States. The required documentation for the Nonavailability waiver is

- a) Completed Content Percentage Worksheet and Final Assembly Questionnaire
- b) Record of thorough market research, consideration where appropriate of qualifying alternate items, products, or materials including;
- c) A description of the market research activities and methods used to identify domestically manufactured items capable of satisfying the requirement, including the timing of the research and conclusions reached on the availability of sources.

Type 3 Waiver – The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “facility/project.” The required documentation for a Type 3 waiver is:

- a) Completed Content Percentage Worksheet and Final Assembly Questionnaire including;
- b) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- c) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- d) Percentage of non-domestic component and subcomponent cost as compared to total “facility” component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver (Unreasonable Costs) - Applying this provision for iron, steel, manufactured goods or construction materials would increase the cost of the overall project by more than 25 percent. The required documentation for this waiver is:

- a) A completed Content Percentage Worksheet and Final Assembly Questionnaire from
- b) At minimum two comparable equal bids and/or offers;
- c) Receipt or record that demonstrates that supplier scouting called for in Executive Order 14005, indicates that no domestic source exists for the project and/or component;
- d) Completed waiver applications for each comparable bid and/or offer.

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

CERTIFICATION OF OFFEROR/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

The applicant represents that it is () is not () a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

The applicant represents that it is () is not () a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the Sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. Code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 USC § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

Authorized Representative (Print)

Title

Signature

Date

AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

This Agreement is by and between Gerald R. Ford International Airport Authority (“Owner”) and _____ (“Contractor”).

Terms used in this Agreement have the meanings stated in the General Conditions and the Supplementary Conditions.

Owner and Contractor hereby agree as follows:

ARTICLE 1—WORK

- 1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows: Natural Treatment System Maintenance, Phase 2 including removal of existing treatment bed media and piping from four cells, disposal of bed material on airport property, construction of new bed media, piping and outlet controls.

ARTICLE 2—THE PROJECT

- 2.01 The Project, of which the Work under the Contract Documents is a part, is generally described as follows: *Natural Treatment System Maintenance, Phase 2*

ARTICLE 3—ENGINEER

- 3.01 The Owner has retained Prein&Newhof, 3355 Evergreen Drive NE, Grand Rapids, MI 49525 (“Engineer”) to act as Owner’s representative, assume all duties and responsibilities of Engineer, and have the rights and authority assigned to Engineer in the Contract.
- 3.02 The part of the Project that pertains to the Work has been designed by Prein&Newhof.

ARTICLE 4—CONTRACT TIMES

4.01 *Time is of the Essence*

- A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Contract Times: Dates*

- A. The Work will be substantially complete on or before **August 31, 2027**, and completed and ready for final payment ~~in accordance with Paragraph 15.06 of the General Conditions~~ on or before **September 30, 2027**.

4.03 *Contract Times: Days*

- A. ~~The Work will be substantially complete within [number] days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within [number] days after the date when the Contract Times commence to run.~~

4.04 Milestones

A. ~~Parts of the Work must be substantially completed on or before the following Milestone(s):~~

~~1. Milestone 1 [event & date/days]~~

~~2. Milestone 2 [event & date/days]~~

~~3. Milestone 3 [event & date/days]~~

4.05 Liquidated Damages

A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the Contract Times, as duly modified. The parties also recognize the delays, expense, and difficulties involved in proving, in a legal or arbitration proceeding, the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. *Substantial Completion:* Contractor shall pay Owner **\$2,500.00** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for Substantial Completion, until the Work is substantially complete.

2. *Completion of Remaining Work:* After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner **\$5,000.00** for each day that expires after such time until the Work is completed and ready for final payment.

3. ~~*Milestones:* Contractor shall pay Owner **\$[number*]** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for achievement of Milestone 1, until Milestone 1 is achieved, or until the time specified for Substantial Completion is reached, at which time the rate indicated in Paragraph 4.05.A.1 will apply, rather than the Milestone rate.~~

4. Liquidated damages for failing to timely attain Milestones, Substantial Completion, and final completion are not additive, and will not be imposed concurrently.

B. If Owner recovers liquidated damages for a delay in completion by Contractor, then such liquidated damages are Owner's sole and exclusive remedy for such delay, and Owner is precluded from recovering any other damages, whether actual, direct, excess, or consequential, for such delay, except for special damages (if any) specified in this Agreement.

C. ~~*Bonus:* Contractor and Owner further recognize the Owner will realize financial and other benefits if the Work is completed prior to the time specified for Substantial Completion. Accordingly, Owner and Contractor agree that as a bonus for early completion, Owner shall pay Contractor **\$[number]** for each day prior to the time specified above for Substantial Completion (as duly adjusted pursuant to the Contract) that the Work is substantially complete. The maximum value of the bonus will be limited to **\$[number]**.~~

4.06 Special Damages

- A. Contractor shall reimburse Owner (1) for any fines or penalties imposed on Owner as a direct result of the Contractor's failure to attain Substantial Completion according to the Contract Times, and (2) for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Substantial Completion (as duly adjusted pursuant to the Contract), until the Work is substantially complete.
- B. After Contractor achieves Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times, Contractor shall reimburse Owner for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Work to be completed and ready for final payment (as duly adjusted pursuant to the Contract), until the Work is completed and ready for final payment.
- C. The special damages imposed in this paragraph are supplemental to any liquidated damages for delayed completion established in this Agreement.

ARTICLE 5—CONTRACT PRICE

5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents, the amounts that follow, subject to adjustment under the Contract:

- A. ~~For all Work other than Unit Price Work, a lump sum of \$[number].~~

~~All specific cash allowances are included in the above price in accordance with Paragraph 13.02 of the General Conditions.~~

- B. ~~For all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item).~~

Unit Price Work					
Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Price
				\$	\$
				\$	\$
				\$	\$
				\$	\$
				\$	\$
Total of all Extended Prices for Unit Price Work (subject to final adjustment based on actual quantities)					\$

~~The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. As provided in Paragraph 13.03 of the General~~

~~Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer.~~

C. ~~Total of Lump Sum Amount and Unit Price Work (subject to final Unit Price adjustment) \$[number].~~

D. For all Work, at the prices stated in Contractor's Bid, attached hereto as an exhibit.

ARTICLE 6—PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

A. Contractor shall submit Applications for Payment in accordance with Section 90 of the General Contract Provisions ~~Article 15 of the General Conditions~~. Applications for Payment will be processed by Engineer as provided in the General Contract Provisions ~~General Conditions~~.

6.02 *Progress Payments; Retainage*

A. Owner shall make progress payments on the basis of Contractor's Applications for Payment on or about the Thirtieth (30th) day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract.

a. **100** percent of the value of the Work completed (with the balance being retainage).

1) If 50 percent or more of the Work has been completed, as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, then as long as the character and progress of the Work remain satisfactory to Owner and Engineer, there will be no additional retainage; and

b. **0** percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to **100** percent of the Work completed, less such amounts set off by Owner pursuant to Section 90 of the General Contract Provisions ~~Paragraph 15.01.E of the General Conditions~~, and less **100** percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work, Owner shall pay the remainder of the Contract Price in accordance with Section 90 of the General Contract Provisions ~~Paragraph 15.06 of the General Conditions~~.

6.04 *Consent of Surety*

- A. Owner will not make final payment, or return or release retainage at Substantial Completion or any other time, unless Contractor submits written consent of the surety to such payment, return, or release.

6.05 *Interest*

- A. All amounts not paid when due will bear interest at the rate of **0** percent per annum.

ARTICLE 7—CONTRACT DOCUMENTS

7.01 *Contents*

- A. The Contract Documents consist of all of the following:
 - 1. This Agreement.
 - 2. Bonds:
 - a. Performance bond (together with power of attorney).
 - b. Payment bond (together with power of attorney).
 - 3. General Contract Provisions.
 - 4. ~~Supplementary Conditions~~.
 - 5. Specifications as listed in the table of contents of the project manual.
 - 6. Drawings (not attached but incorporated by reference) consisting of twenty-one (21) sheets with each sheet bearing the following general title: C-449 Natural Treatment System Maintenance, Phase 2.
 - 7. Addenda (numbers ___ to ___, inclusive).
 - 8. Exhibits to this Agreement (enumerated as follows):
 - a. **Contractor's Bid (pages 1 to 9, inclusive)**
 - b. Insurance Specifications (pages 1 to 13, inclusive).
 - c. The 2020 Standard Specifications for Construction adopted by the Michigan Department of Transportation are hereby incorporated into these contract documents.
 - d. General Contract Provisions (Pages 1 to 43, inclusive)
 - e. Soil Nomenclature and Terminology (Pages 1 to 1, inclusive)
 - f. Appendix A – FAA Contract Provisions (Pages 1 to 43, inclusive)
 - g. Special Provision for Taxes (Pages 1 to 1, inclusive)
 - h. Special Notice W-9 including Form W-9 (Pages 1 to 6, inclusive)
 - i. Sample Safety Plan Compliance Document (Pages 1 to 3, inclusive)

- j. Technical Specifications
 - 1) Division 02—Existing Conditions
 - 02 10 00 Natural Treatment System (Pages 1 to 6, inclusive)
 - 02 41 00 Demolition (Pages 1 to 6, inclusive)
 - 02 94 10 Treatment Media (Pages 1 to 9, inclusive)
 - 2) Division 40—Process Interconnections
 - 40 27 00 Process Piping and Specialties (Pages 1 to 8, inclusive)
 - Supplement 1, Piping Schedule Legend (Pages 1 to 1, inclusive)
 - Supplement 2, Piping Schedule (Pages 1 to 1, inclusive)
 - 40 27 02 Process Valves and Operators (Pages 1 to 9, inclusive)
 - Supplement 1, Manual Valve Schedule (Pages 1 to 1, inclusive)
 - 40 80 01 Process Piping Leakage Testing (Pages 1 to 5, inclusive)
- k. MDOT Standard Specifications (specific to this project)
 - Section 101 - Terms, Format, and Definitions (Pages 1-3 to 1-20, inclusive)
 - Section 109 - Measurement and Payment (Pages 1-95 to 1-11, inclusive)
 - Section 203 - Removing Drainage Structures, Culverts, and Sewers (Pages 2-9 to 2-11, inclusive)
 - Section 204 - Removing Miscellaneous Structures and Materials (Pages 2-12 to 2-17, inclusive)
 - Section 205 - Roadway Earthwork (Pages 2-18 to 2-35, inclusive)
 - Section 206 - Excavation and Backfill for Structures (Pages 2-36 to 2-39, inclusive)
 - Section 208 - Soil Erosion and Sedimentation Control (Pages 2-41 to 2-48, inclusive)
 - Section 302 – Aggregate Base Course (Pages 3-4 to 3-7, inclusive)
 - Section 402 – Storm Sewers (Pages 4-14 to 4-23, inclusive)
 - Section 403 - Drainage Structures (Pages 4-24 to 4-31, inclusive)
 - Section 706 – Structural Concrete Construction (Pages 7-29 to 7-61, inclusive)
 - Section 802 – Concrete Curb, Gutter, and Dividers (Pages 8-3 to 8-7, inclusive)
 - Section 803 – Concrete Sidewalk, Curb Ramps, and Steps (Pages 8-8 to 8-11, inclusive)
 - Section 813 – Slope Protection (Pages 8-128 to 8-131, inclusive)
 - Section 816 - Turf Establishment (Pages 8-143 to 8-154, inclusive)
 - Section 901 - Cement and Lime (Pages 9-3 to 9-4, inclusive)
 - Section 902 - Aggregates (Pages 9-5 to 9-23, inclusive)
 - Section 903 - Admixtures and Curing Materials for Concrete (Pages 9-24 to 9-26, inclusive)
 - Section 905 - Steel Reinforcement (Pages 9-44 to 9-46, inclusive)

Section 908 – Miscellaneous Metal Products (Pages 9-59 to 9-65, inclusive)

Section 909 - Drainage Products (Pages 9-66 to 9-90, inclusive)

Section 910 - Geosynthetics (Pages 9-91 to 9-95, inclusive)

Section 911 - Water (Pages 9-96 to 9-97, inclusive)

Section 913 - Masonry Units (Pages 9-118 to 9-120, inclusive)

Section 914 – Joint and Waterproofing Materials (Pages 9-121 to 9-125, inclusive)

Section 916 - Erosion and Sedimentation Control Materials (Pages 9-128 to 9-131, inclusive)

Section 917 - Turf and Landscaping Materials (Pages 9-132 to 9-141, inclusive)

Section 1004 – Portland Cement Concrete Mixture (Pages 10-31 to 10-35, inclusive)

Section 1005 – Mortar and Grout Mixtures (Pages 10-36 to 10-39, inclusive)

9. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
 - a. Notice to Proceed.
 - b. Work Change Directives.
 - c. Change Orders.
 - d. Field Orders.
 - e. Warranty Bond, if any.
- B. The Contract Documents listed in Paragraph 7.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 7.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in the Contract.

ARTICLE 8—REPRESENTATIONS, CERTIFICATIONS, AND STIPULATIONS

8.01 Contractor's Representations

- A. In order to induce Owner to enter into this Contract, Contractor makes the following representations:
 1. Contractor has examined and carefully studied the Contract Documents, including Addenda.
 2. Contractor has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Contractor is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Contractor has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in

the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Contractor has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
6. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (c) Contractor's safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
9. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

8.02 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 8.02:
 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in the Contract execution;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and
4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

8.03 *Standard General Conditions*

- A. Owner stipulates that if the General Conditions that are made a part of this Contract are EJCDC® C-700, Standard General Conditions for the Construction Contract (2018), published by the Engineers Joint Contract Documents Committee, and if Owner is the party that has furnished said General Conditions, then Owner has plainly shown all modifications to the standard wording of such published document to the Contractor, through a process such as highlighting or “track changes” (redline/strikeout), or in the Supplementary Conditions.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on _____ (which is the Effective Date of the Contract).

Owner:

Gerald R. Ford International Airport Authority

(typed or printed name of organization)

By:

(individual's signature)

Date:

(date signed)

Name:

(typed or printed)

Title:

(typed or printed)

Attest:

(individual's signature)

Title:

(typed or printed)

Address for giving notices:

5500 44th Street SE

Grand Rapids, MI 49512

Designated Representative:

Name:

(typed or printed)

Title:

(typed or printed)

Address:

5500 44th Street SE

Grand Rapids, MI 49512

Phone:

Email:

(If [Type of Entity] is a corporation, attach evidence of authority to sign. If [Type of Entity] is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)

Contractor:

(typed or printed name of organization)

By:

(individual's signature)

Date:

(date signed)

Name:

(typed or printed)

Title:

(typed or printed)

(If [Type of Entity] is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

(individual's signature)

Title:

(typed or printed)

Address for giving notices:

Designated Representative:

Name:

(typed or printed)

Title:

(typed or printed)

Address:

Phone:

Email:

License No.:

(where applicable)

State:

SECTION 01 22 00

UNIT PRICES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 02, Division 32 and Division 40 Specification Sections, apply to this Section.

1.02 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by Change Order, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.03 PROCEDURES

- A. Unit prices include all costs for material, labor, equipment, delivery, installation, insurance, and all other items necessary to complete the item as specified and shown on the drawings.
- B. Measurement and Payment: Upon completion of work involving unit prices, submit documentation to establish actual quantity of work provided. A Change Order will be issued in an amount equal to the actual quantity multiplied by the unit price.
- C. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.
- D. Cost for any work not specifically identified on Drawings C-001, C-002, C-100, C-101, C-103, C-104, C-105, C-106, C-201, C-202, C-203, C-204, C-210 and C-501 or Division 02 and Division 40 Specification Sections shall be included into the unit price items identified in this section.
- E. Loss of material due to handling, stockpiling, washing, transfer or any other cause will not be paid. Cost for lost materials shall be included in the unit prices for each respective item of work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price: Treatment Media (Bid Item #20)

C-437, Natural Treatment System Improvement

1. Description: Construction of proposed treatment system media. Refer to Sections 02 10 00 - Natural Treatment System and 02 94 10 – Treatment Media.
 2. Unit of Measurement: Cubic yard of Treatment Media, compacted (as specified) in place.
- B. Unit Price: Insulation Media, Wood Chips (Bid Item #21)
1. Description: Installation of the top layer of expanded lightweight aggregate to as insulation for the Natural Treatment System. Refer to Sections 02 10 00 – Natural Treatment System and 02 90 10 – Treatment Media.
 2. Unit of Measurement: Cubic yard of Insulation Media (Wood Chips), compacted (as specified) in place.
- C. Unit Price: Course Media (Bid Item #22)
1. Description: Rock or cobble between 3-inches and 6-inches installed between the R-Tanks and excavation limits and other locations as shown on the drawings. Refer to Section 02 10 00, Natural Treatment System.
 2. Unit of Measurement: Cubic yard of Course Media, compacted (as specified) in place.
- D. Unit Price: Geotextile Fabric (Bid Item #23)
1. Description: Woven geotextile fabric installed as shown on the drawings. Refer to the drawings.
 2. Unit of Measurement: Square feet of Geotextile Fabric, along the ground, in place.
- E. Unit Price: Gabion Basket (Bid Item #24)
1. Description: Stainless Steel mesh basket to hold “Gabion 3” to 6” Rock”. Refer to Section 02 94 10, Treatment Media.
 2. Unit of Measurement: Lineal feet, regardless of width, of Gabion Basket, in place.
- F. Unit Price: Gabion 3" to 6" Rock (Bid Item #25)
1. Description: Rock or cobble between 3-inches and 6-inches installed inside gabion baskets as shown on the drawings. Refer to Section 02 94 10, Treatment Media.
 2. Unit of Measurement: Cubic yard of Gabion 3" to 6" Rock, compacted (as specified) in place.
- G. Unit Price: Splash Pad (Bid Item #26)
1. Description: Construction of splash pads at the outlet of each of the distribution pipes as shown on the drawings. Refer to Sections 02 10 00 – Natural Treatment System and 40 27 00 – Process Piping and Specialties.

2. Unit of Measurement: Each Splash Pad, constructed in place.
- H. Unit Price: Piping (Bid Item #27)
1. Description: Piping within Cells 1A, 1B, 1C and 1D of the Natural Treatment System regardless of diameter or material. Refer to Sections 40 27 00 - Process Piping and Specialties, Section 40 27 02 – Process Valves and Operators, and Section 40 80 01 – Process Piping and Leakage Testing.
 2. Unit of Measurement: Lineal feet of Piping, along the centerline of the pipe, from center of structure to center of structure, in place.
- I. Unit Price: Pipe Coupling (Bid Item #28)
1. Description: The connection between piping described in Item H above and the existing dosing chamber discharge pipe. Refer to Sections 40 27 00 - Process Piping and Specialties, Section 40 27 02 – Process Valves and Operators, and Section 40 80 01 – Process Piping and Leakage Testing.
 2. Unit of Measurement: Each Pipe Coupling, constructed in place.
- J. Unit Price: R-Tanks Mini (Bid Item #29)
1. Description: Fabricated water storage units with dimensions approximately 28.15-inches wide by 15.75-inches long by 9.45-inch height as shown in the drawings. Refer to Section 02 10 00, Natural Treatment System.
 2. Unit of Measurement: Each R-Tank Mini, constructed in place.
- K. Unit Price: R-Tanks HD Single (Bid Item #30)
1. Description: Fabricated water storage units with dimensions approximately 28.15-inches wide by 15.75-inches long by 17.32-inch height as shown in the drawings. All R-Tanks will be paid as “Single”. References to other combinations will be interpreted to be multiple “Single” units. Refer to Section 02 10 00, Natural Treatment System.
 2. Unit of Measurement: Each R-Tank Single, constructed in place.
- L. Unit Price: Media Removal (Bid Item #31)
1. Description: Excavation of existing treatment system soils and geotextile separator, transportation to on-airport soil disposal area, placing and compacting soil in disposal area, separation of other pay items from the soil media and preparation of existing soils for placement of other materials. Refer to Sections 02 10 00 - Natural Treatment System and 02 41 00 – Demolition.
 2. Unit of Measurement: Cubic yard of Media Removal, as measured from the existing surface to the bottom of the excavation.
- M. Unit Price: Piping Removal (Bid Item #32)

C-437, Natural Treatment System Improvement

1. Description: Removal and legal disposal, off-airport property in a regulated landfill with waste manifest (analysis by owner). Refer to Section 02 41 00, Demolition.
 2. Unit of Measurement: Lineal feet of Piping Removal, along the centerline of the pipe, from end (or removal limits) to end, in place.
- N. Unit Price: Infiltrator Removal (Bid Item #33)
1. Description: Removal and disposal, off-airport property, of existing 52" x 34" (approximate) infiltrator sections. Refer to Section 02 41 00, Demolition.
 2. Unit of Measurement: Each Infiltrator removed.
- O. Unit Price: Smart Drain (Bid Item #34)
1. Description: Fabricated Water Level Control System. Refer to Section 02 10 00, Natural Treatment System.
 2. Unit of Measurement: Each Smart Drain, constructed in place.

END OF SECTION

TABLE OF CONTENTSPages**TECHNICAL SPECIFICATIONS**

DIVISION 01—GENERAL REQUIREMENTS (NOT USED)

DIVISION 02—EXISTING CONDITIONS

02 10 00	Natural Treatment System	1-	6
02 41 00	Demolition	1-	6
02 94 10	Treatment Media.....	1-	9

DIVISION 03 THROUGH DIVISION 39 (NOT USED)

DIVISION 40—PROCESS INTERCONNECTIONS

40 27 00	Process Piping and Specialties.....	1-	8
	Supplement 1, Piping Schedule Legend	1-	1
	Supplement 2, Piping Schedule	1-	1
40 27 02	Process Valves and Operators.....	1-	9
	Supplement 1, Manual Valve Schedule	1-	1
40 80 01	Process Piping Leakage Testing	1-	5

DIVISION 41 THROUGH 49 (NOT USED)

DRAWINGS (BOUND SEPARATELY)**END OF SECTION**

**SECTION 02 10 00
NATURAL TREATMENT SYSTEM**

PART 1 GENERAL

1.01 DESCRIPTION

- A. This item shall consist of the construction and startup of the four natural treatment systems (NTS) beds (inline water level control structures, R-Tank stormwater modules, Treatment Media, and spare parts) in accordance with these specifications and as shown on the Drawings.

1.02 SUBMITTALS

- A. Fabricated Water Level Control Structures:
 - 1. Shop Drawings:
 - a. Make, model, weight, and dimensions of each unit.
 - b. Manufacturer's catalog information, descriptive literature, specifications, and identification of materials of construction.
 - c. Detailed Structural and Mechanical Drawings showing the unit fabrications, including stoplogs and weir. Include dimensions, size, elevations and locations of connections to piping.
 - 2. Quality Control Submittals:
 - a. Manufacturer's Certificate of Compliance.
 - b. Special shipping, storage and protection, and handling instructions.
 - c. Manufacturer's written/printed installation instructions.
 - d. Operation and maintenance manual.
- B. R-Tank Stormwater Modules:
 - 1. Shop Drawings:
 - a. Make, model, weight, and dimensions of each unit.
 - b. Manufacturer's catalog information, descriptive literature, specifications, and identification of materials of construction.
 - 2. Quality Control Submittals:
 - a. Manufacturer's Certificate of Compliance.
 - b. Special shipping, storage and protection, and handling instructions.
 - c. Manufacturer's written/printed installation instructions.
 - d. Operation and maintenance manual.

C. Measurement and Payment

1. The measurement for natural treatment system shall be unit cost.
2. Payment will be made at the Contract unit cost price for all components of the NTS system and related structures. This price shall fully compensate the Contractor for furnishing all materials and for all preparation, excavation, and installation of these materials; and for all labor, equipment, tools, and incidentals necessary to complete the item.

1.03 MATERIAL REQUIREMENTS

A. American Association of State Highway and Transportation Officials (AASHTO): M 252, High Density Polyethylene Drainage Tubing (all types).

B. ASTM International (ASTM):

1. A240, Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
2. A276, Stainless Steel Bars and Shapes.
3. B209, Aluminum and Aluminum-Alloy Sheet and Plate.
4. B308, Aluminum-Alloy 6061-T6 Standard Structural Profiles.

1.04 SPARE AND MISCELLANEOUS PARTS

A. Fabricated Water Level Control Structure:

1. Spare parts shall be procured by the Contractor and delivered to the Owner at the completion of the project.
2. Spare Parts include, but are not limited to:
 - a. One Complete Unit:
 - 1) Enclosure.
 - 2) Solar panel.
 - 3) CPU.
 - 4) Modem.
 - 5) Slide Gate.
 - 6) Power Actuator.
 - b. One additional power actuator.

B. Mechanical Stroke Counter:

1. Mechanical Stroke Counter shall be procured by the Contractor and delivered to the Owner.
2. Mechanical Stroke Counter shall be Durant, Eaton Corporation, Model 5-H-1-2-R with a 5-digit mechanical totalizer display. The counter shall have a key-operated reset.

PART 2 PRODUCTS

2.01 GENERAL

- A. Materials shall meet the requirements shown on the Drawings and specified below.

2.02 FABRICATED WATER LEVEL CONTROL STRUCTURE

- A. Materials:

- 1. Aluminum Plate and Shapes: ASTM B209 and B308, Alloy 6061-T6.
- 2. Stainless Steel:
 - a. Plate, Sheet, and Strip: ASTM A240, Type 316L.
 - b. Bars and Shapes: ASTM A276, Type 316L.

- B. Water level control structures: The level control structure shall be Smart Drain™ unit constructed by Agri-Drain. The water level control structure is a retrofit using the structure of the existing onsite Agri Drain box with new mechanical equipment. All stop logs shall be removed from the current level control structure, but provided to the Owner.

- C. Multi-Level Automated Remote-Control Valve:

- 1. Agri-Drain system shall include a power and control unit system that is comprised of a solar panel, battery, controller, and weather-proof enclosure to operate the power actuator.
- 2. Smart Drainage System shall include one power actuator to open and close the slide gate valve in a two-level structure. The structure will have a two-level valve installed with the slide gate valve detailed in the Drawings covered by manual stoplogs.
- 3. Power actuator:
 - a. Material: all aluminum frame and extension tube.
 - b. Input voltage: 12V dc, 24V dc.
 - c. Dynamic load range: 34 lbs to 225 lbs.
 - d. Maximum static load: 562 lbs.
 - e. Standard present limit switches at both ends of stroke.
 - f. Accessories:
 - 1) Mounting brackets.
 - 2) Direction reversing switches.
 - 3) Wired and wireless controllers.
 - 4) Direction reversing relays.

D. Smart Drain System Operating Protocols:

1. Primary operating protocol is based on a set water level elevation that triggers the actuated valve to open for a set period of time. The water level elevation trigger and the period of time for the valve to open shall be changeable from offsite remote Web site program during startup and normal operations of the system.
2. Secondary operating protocol is based on a set time from last valve opening instead of an elevation based action. Programming of the controller will trigger secondary operating protocol if the water level does not trigger the primary operating protocol regularly. The Contractor to coordinate programming with the manufacturer to include the following on the screen of the onsite controller:
 - a. Visualization of the parameter showing amount of time between openings.
 - b. Option to change the amount of time between openings in hours.

2.03 R-TANK STORMWATER MODULE

A. Materials:

1. Heavy-Duty (HD) Single Module:
 - a. Height: 17.32 inches.
 - b. Length: 28.15 inches.
 - c. Width: 15.75 inches.
 - d. Void Area: Internal 95 percent and surface area of 90 percent.
 - e. Vertical compressive strength: 33.4 psi.
 - f. Recycled Content: 100 percent recycled polypropylene.
2. Heavy-Duty Mini (HD-Mini) Module:
 - a. Height: 9.45 inches.
 - b. Length: 28.15 inches.
 - c. Width: 15.75 inches.
 - d. Void Area: Internal 95 percent and surface area of 90 percent.
 - e. Vertical compressive strength: 33.4 psi.
 - f. Recycled Content: 100 percent recycled polypropylene.

B. Stormwater Modules: The stormwater modules shall be constructed of recycled polypropylene designed with 90 percent surface area void available for infiltration and 95 percent void area for treated water collection and transfer.

C. The Contractor is responsible for properly securing the R-Tank modules in place per the manufacturer's recommendations.

- D. Geotextile: An 8-ounce geotextile will be installed below and above the stormwater modules to prevent material from entering into the void area. Geotextile will be installed as shown on the Drawings. No geotextile will be installed on either side of the stormwater modules. Any geotextile found to be on the side of the stormwater media will require removal by the Contractor. Geotextile shall also be installed over the gabions to prevent surface media from falling into the void area of the gabions. No geotextile shall be placed on top of treatment media.

2.04 TREATMENT MEDIA

- A. Refer to Specification 02 94 10, Treatment Media for the specifications on the treatment media installed around and above the R-Tank systems

PART 3 EXECUTION

3.01 GENERAL

- A. The construction of the NTS beds requires that the Contractor comply with the methods and sequence of construction, as specified below and in the Drawings. Alternative methods, materials, and sequences must be approved by the Engineer.

3.02 FABRICATED WATER LEVEL CONTROL STRUCTURE (AGRI-DRAIN)

- A. Installation: The Smart Drain™ unit shall be installed in the existing Agri Drain structure onsite according to the manufacturer's installation requirements and as shown on the Drawings.

3.03 R-TANK STORMWATER MODULE

- A. Site Preparation: The geomembrane will be installed below the stormwater modules before installation begins.
- B. Installation:
 - 1. R-tank stormwater modules shall be assembled prior to installation in the treatment system per manufacturer's guidelines and recommendations.
 - 2. R-Tank stormwater modules shall be installed per the manufacturer's recommended installation guide. Occasional minor gaps or variation in the height of between units (less than 1/2-inches) are acceptable, but reasonable efforts should be made to minimize these variations. If gaps or height variations persist through three or more adjacent units, remove the modules and repair the base.

3. A single HD unit and a single HD-Mini unit will be stacked to achieve the desired treatment system height and void area necessary to drain the system effectively. Stacking and location of the R-tanks shall be installed as shown on the Drawings and per direction of the manufacturer. Stormwater modules shall be installed only at the base of the treatment system and not up the berm slopes.
4. Coarse media, as described in Section 02 94 10, Treatment Media, shall be installed on the side of the stormwater modules between the stormwater modules and the berms.
5. Place the geotextile, as shown on the Drawings, at the top of the R-Tank stormwater modules to prevent media from falling into the stormwater modules. Do not install geotextile on the sides of the R-Tank stormwater modules.

3.04 TREATMENT MEDIA

- A. Contractor to install the treatment media as specified in Section 02 94 10, Treatment Media.
- B. Contractor shall prevent treatment media from entering the R-Tanks and gabion baskets during installation.

3.05 CONSTRUCTION SEQUENCING PLAN

- A. Before starting construction, the Contractor shall submit a construction schedule showing the proposed order of work and indicate the anticipated completion time of the work items. The schedule shall be a definitive account of the work that is to be accomplished within the time indicated and shall be updated weekly to reflect actual work progress. In the event that the proposed schedule does not meet the schedule criteria set forth by the Engineer, the Contractor shall resubmit a revised schedule for approval. The construction schedule shall be utilized as a sequencing reference for the progress of construction operations and may, at the sole discretion of the Engineer, be employed by the Engineer in determining delays and time extensions but does not become a part of the Contract.
- B. The Contractor shall make no change in the construction schedule at any time, without prior approval of the Engineer. Notify the Engineer immediately of conflicts requiring schedule review.
- C. The Engineer's review of schedule shall not imply changes in Contract for services. The Contractor is responsible to notify the Engineer of Contract Implications or changes that arise from alterations of construction schedule.

END SECTION

SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 REFERENCES

- A. The following is a list of standards which may be referenced in this section:
 - 1. American National Standards Institute (ANSI): A10.6, Safety Requirements for Demolition Operations.
 - 2. Occupational Safety and Health Administration (OSHA), U.S. Code of Federal Regulations (CFR) Title 29 Part 1926—Occupational Safety and Health Regulations for Construction.
 - 3. Environmental Protection Agency (EPA), U.S. Code of Federal Regulations (CFR), Title 40:
 - a. Part 61—National Emission Standards for Hazardous Air Pollutants.
 - b. Part 82—Protection of Stratospheric Ozone.
 - c. Part 273—Standards for Universal Waste Management.

1.02 DEFINITIONS

- A. Demolition: Includes removal of pipes, manholes tanks, conduit, and other underground facilities, whether as a separate activity or in conjunction with construction of new facilities.
- B. Modify: Provide all necessary material and labor to modify an existing item to the condition indicated or specified.
- C. Relocate: Remove, protect, clean and reinstall equipment, including electrical, instrumentation, and all ancillary components required to make the equipment fully functional, to the new location identified on the Drawings.
- D. Salvage/Salvageable: Remove and deliver, to the specified location(s), the equipment, materials, or other items so identified to be saved from destruction, damage, or waste; such property to remain that of the Owner. Unless otherwise specified, title to items identified for demolition shall revert to the Contractor.

1.03 SUBMITTALS

- A. Informational Submittals:
 - 1. Submit proposed demolition, in accordance with requirements specified herein, for approval before such Work is started.

2. Submit copies of any notifications, authorizations and permits required to perform the Work.

1.04 REGULATORY AND SAFETY REQUIREMENTS

- A. When applicable, demolition Work shall be accomplished in strict accordance with 29 CFR 1926-Subpart T.
- B. Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the General Conditions, Contractor's safety requirements shall conform to ANSI A10.6.
- C. Furnish timely notification of this demolition project to applicable federal, state, regional, and local authorities in accordance with 40 CFR 61-Subpart M.
- D. Removed pipe requires regulatory testing prior to disposal. Owner will perform the required testing. Contractor shall designate and maintain area onsite for staging and storage of removed pipe following demolition. Contractor shall store the pipe in the designated area and shall not dispose of the pipe until the Owner has completed testing and authorized disposal.

1.05 SEQUENCING AND SCHEDULING

- A. Include the Work of this specification in the progress schedule.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 EXISTING FACILITIES TO BE DEMOLISHED OR RENOVATED

- A. Utilities and Related Equipment:
 1. Remove existing utilities as indicated and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the Engineer.
 2. When utility lines are encountered that are not indicated on the Drawings, notify the Owner prior to further work in that area.
- B. Paving and Slabs: Remove concrete and asphaltic concrete paving and slabs as indicated. Provide neat sawcuts at limits of pavement removal as indicated.

3.02 PROTECTION

- A. Dust and Debris Control: Sweep pavements as often as necessary to control the spread of debris that may result in foreign object damage potential to vehicular traffic.

- B. Traffic Control Signs: Where pedestrian and driver safety is endangered in the area of removal Work, use traffic barricades with flashing lights.
- C. Existing Work:
 - 1. Survey the Site and examine the Drawings and specifications to determine the extent of the Work before beginning any demolition or renovation.
 - 2. Take necessary precautions to avoid damage to existing items scheduled to remain in place, to be reused, or to remain the property of the Owner; any Contractor-damaged items shall be repaired or replaced as directed by the Engineer.
 - 3. Ensure that structural elements are not overloaded as a result of or during performance of the Work. Responsibility for additional structural elements or increasing the strength of existing structural elements as may be required as a result of any Work performed under this Contract shall be that of the Contractor. Repairs, reinforcement, or structural replacement must have the Engineer approval.
 - 4. Do not overload pavements to remain.
- D. Trees: Protect trees within the Site that might be damaged during demolition and are indicated to be left in place, by a 6-foot-high fence. The fence shall be securely erected a minimum of 5 feet from the trunk of individual trees or follow the outer perimeter of branches or clumps of trees. Any tree designated to remain that is damaged during the Work shall be replaced in kind, as approved by the Engineer.
- E. Facilities:
 - 1. Protect electrical and mechanical services and utilities. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical and mechanical utilities.
 - 2. Protect all facility elements not scheduled for demolition.
- F. Protection of Personnel:
 - 1. During demolition, continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site.
 - 2. Provide temporary barricades and other forms of protection to protect the Owner's personnel and the general public from injury due to demolition Work.

3.03 BURNING

- A. The use of burning at the Site for the disposal of refuse and debris will not be permitted.

3.04 RELOCATIONS

- A. Perform the removal and reinstallation of relocated items as indicated with workmen skilled in the trades involved. Clean all items to be relocated prior to reinstallation, to the satisfaction of the Engineer. Repair items to be relocated which are damaged or replace damaged items with new undamaged items as approved by the Engineer.

3.05 BACKFILL

- A. Do not use demolition debris as backfill material.

3.06 TITLE TO MATERIALS

- A. All salvaged equipment and materials will remain the property of the Owner.

3.07 DISPOSITION OF MATERIAL

- A. Salvage equipment and material to the maximum extent possible.
- B. Remove materials and equipment that are indicated to be removed by the Contractor and deliver to a storage site as directed.
- C. Pipe Material: Contractor shall stage and store removed pipe in the designated onsite storage area pending testing by Owner. Do not remove or dispose of pipe from the Project Site until Owner has completed testing and authorized disposal.
- D. Remove salvaged items in a manner to prevent damage, and pack or crate to protect the items from damage while in storage or during shipment. Properly identify containers as to contents.
- E. Repair or replace, at the discretion of the Engineer, items damaged during removal or storage.
- F. Remove salvaged items designated as the property of the Owner in a manner to prevent damage, and pack or crate to protect the items from damage while in storage or during shipment. Properly identify containers as to contents.
- G. Repair or replace, at the discretion of the Engineer, items damaged during removal or storage.

- H. Deliver salvaged items that are designated as the property of the Owner to a storage site as directed on the Site.
- I. The Owner will not be responsible for the condition or loss of, or damage to, property scheduled to become the Contractor's property after the Engineer's authorization to begin demolition. Materials and equipment shall not be viewed by prospective purchasers or sold on the Site.
- J. The Owner will not be responsible for the condition or loss of, or damage to, such property after the Engineer's authorization to begin demolition.
- K. Store salvaged items as approved by the Engineer and remove them from the Owner's property before completion of the Contract. Materials and equipment shall not be either viewed by prospective purchasers or sold on the Site.

3.08 REUSE OF MATERIALS AND EQUIPMENT

- A. Properly store and maintain equipment and materials in same condition as when removed.
- B. Store equipment and material designated to be reused in a location designated by the Owner.
- C. Equipment and material designated to be reused shall be cleaned, serviced and checked for proper operability before being put back into service.
- D. The Engineer will determine condition of equipment and materials prior to removal.

3.09 SPECIALIZED SALVAGE

- A. Historical Items: Remove in a manner to prevent damage.

3.10 UNSALVAGEABLE MATERIAL

- A. Concrete, masonry, and other noncombustible material, except concrete permitted to remain in place, shall be disposed of in the following manner and location.
 - 1. Designated by the Owner.
- B. Combustible material shall be disposed of off the Site.

3.11 CLEANUP

- A. Debris and rubbish shall be removed from excavations. Debris and rubbish shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

END OF SECTION

**SECTION 02 94 10
TREATMENT MEDIA**

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

A. This Work shall consist of procuring materials, material blending, testing, and placement of the aggregate media into the rehabilitated treatment cells intended to provide water quality treatment of surface water runoff and deicing fluid from the Gerald R. Ford International Airport (GFIA) as shown on the Drawings. The Work included in this section consists of the following:

1. Aggregate media material acquisition.
2. Testing and analysis for specification conformance.
3. Preparation of treatment media mix and testing for conformance.
4. Installation and placement of aggregate media.
5. Final in-place testing of aggregate media.
6. Clean-up.

B. Definitions:

1. Woodchips: Coarse sawmill woodchips free of fines used to insulate the treatment system.
2. Treatment Media: A homogeneous washed aggregate media free of fines used for the treatment of stormwater and deicing fluid.
3. Coarse Media: Washed aggregate media free of fines used to fill the area between R-tanks and cell berms, and between the ends of the gabion course and berms.

C. Qualifications and Quality Assurance:

1. Analysis and Testing of Materials Qualifications: For each type of packaged material required for the Work of this section, provide manufacturer's certified analysis. For all other materials, provide complete analysis by a recognized laboratory made in strict compliance with the standards and procedures of the following:
 - a. American Society of Testing Materials (ASTM).
 - b. American Association of State Highway and Transportation Officials (AASHTO).
 - c. American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

2. Quality Assurance Qualifications: Work and materials shall meet the standards of the following references:
 - a. American Society for Testing Materials (ASTM).
 - b. American Association of State Highway and Transportation Officials (AASHTO).
 - c. Environmental Protection Agency (EPA).
 - d. Code of Federal Regulations (CFR) – 40 CFR Part 261 Subpart C.
 - e. Michigan Department of Transportation (MDOT).
 - f. Michigan Department of Environment, Great Lakes, and Energy (EGLE).
3. Installer Qualifications: A qualified installer whose work has resulted in successful installation of filter media systems.
 - a. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project Site who has at least 5 years' experience with projects of similar scale and complexity.
 - b. The Contractor shall have experience in the proper and safe transportation and installation of filter media material.
 - c. The Contractor shall have adequate supervision, staff, equipment and experience needed to complete a project of this magnitude.
 - d. The Contractor shall prepare and present to the Engineer required media material submittals, and their associated specified test results a minimum of 2 weeks prior to the scheduled Treatment Media, Woodchip Media and Coarse Media installation.
 - e. The Contractor shall have at least 3 to 5 years' experience in installing media.
4. Media Mixing Contractor Qualifications:
 - a. Shall be able to provide aggregate media mixes that meet the specifications within tolerances assigned. Treatment Media and all ingredients should be both stored in a way that prevents foreign material from entering the washed media.
 - b. Shall be able to produce enough consistently uniform Treatment Media material for the Project to meet the scheduled demands.
 - c. The Treatment Media blending vendor/contractor shall have at least 3 to 5 years of aggregate media blending experience.
5. Testing Laboratory Qualifications: An independent, state-operated, or university-operated laboratory; experienced in aggregate media testing; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.
 - a. Employ a qualified independent testing and inspection laboratory acceptable to the Engineer and Owner to perform tests and certifications indicated. Alternative agencies must be submitted to the Engineer for approval prior to use.
 - b. It is the responsibility of the Contractor in conjunction with the Treatment Media, Woodchip, and Coarse Media Supplier to submit materials for the tests.

- c. Tests shall be made in strict compliance with the standards of the Association of Official Analytical Chemists and follow standards from ASTM, ASHTO, EPA, and/or Methods of Soil Analysis.

D. Pre-installation Meetings:

1. Pre-installation conference: Conduct conference virtually or onsite prior to commencement of construction activities with the Engineer and the Owner.
2. All submittals, testing, and materials shall be completed and approved by the Engineer prior to the pre-installation conference.

E. Submittals and Testing:

1. Sampling, Testing and Acceptance:
 - a. General: Perform tests on the media samples according to requirements in this article. Only media conforming to specifications stated herein shall be permitted to be used by the Contractor.
 - b. Sampling: Samples will be taken of any stockpiled media per requirements of the *Procedures for Aggregate Inspection* manual produced by MDOT, latest version available.
 - c. Testing: All composite samples shall have a sieve analysis performed in accordance with ASTM C136 to determine d10, UC, percent fines, and gradation of the specified media. Sieve analyses shall be performed by an independent materials testing laboratory acceptable to the Engineer. This should not constrain the Contractor from performing additional sieve analyses at the production site to ensure good quality control. The Contractor shall pay for testing composite samples specified herein. Retesting of material that had been previously rejected or additional QA/QC testing performed by the Supplier shall also be paid for by the Contractor. The first composite sample shall also be analyzed for specific gravity in accordance with ASTM C127. These analyses shall be performed by an independent materials testing laboratory acceptable to the Engineer. In lieu of an independent testing laboratory, the Engineer may allow testing to be completed by the Supplier's laboratory. The Contractor shall pay for these tests. Retesting of material that had previously been rejected shall also be paid for by the Contractor.
 - d. The submittal package shall include color photographs of the proposed woodchips and clean aggregate materials. Photographs shall clearly depict the material type, quality, gradation, and stockpile conditions. Additional supporting documentation, including product data sheets and material specifications, shall be provided to demonstrate compliance with project requirements.

- e. Acceptance and Rejection: Materials that have been prequalified and passed each and every part of the applicable requirements of this section, as verified by the Engineer, will be allowed to be hauled to the Construction Site for placement in preparation for construction of the media beds. No material shall be hauled to the Site that have not been verified as having passed all testing criteria. Should a run of material fail to meet all applicable requirements, the Contractor may, upon approval from the Engineer, reprocess the material in question to meet the specifications. Retesting of such material shall be the sole responsibility of the Contractor.
 - f. Materials that have been improperly handled or stockpiled, as per the specifications, will be rejected and not paid for by the Owner.
2. At least 10 working days prior to blending of each media, the Contractor shall submit to the Engineer the following data. These data are required even if using pre-approved material. The dates of the tests shall be within 45 days of blending and be taken from the same stockpile, batch or source as will be used in the blending. All testing shall be by a certified laboratory.
- a. Treatment Media Product Data and Testing:
 - 1) Source certificate or manufacturer cut sheet showing the source for and description of the material.
 - 2) Grain Size Analysis and Coefficient of Uniformity (Cu) results performed by an independent certified laboratory in accordance with ASTM D422, Standard Test Method for Particle-Size Analysis of Soils for at least the sieves shown in descriptions in Section II B.1.
 - 3) Material density in lbs./CF or lbs./CY.
 - 4) The Grain Size Analysis and Coefficient of Uniformity (Cu) testing shall be performed on the washed Treatment Media at least once for every 50 CY of media produced.
 - b. Woodchip Product Data and Testing:
 - 1) Include recommendations for application and use.
 - 2) Include test data substantiating that products comply with requirements.
 - c. Coarse Media Product Data and Testing:
 - 1) Include recommendations for application and use.
 - 2) Include test data substantiating that products comply with requirements.
 - 3) Include sieve analyses for media materials.
 - 4) Include test data substantiating insulating rating to comply with requirements.

- d. Material Certificates: For each type of imported media before delivery to the Site, according to the following:
 - 1) Manufacturer's qualified testing agency's certified analysis of standard products.
 - 2) Analysis of nonstandard materials, by a qualified testing agency.
 - 3. Information Submittals:
 - a. The Contractor must submit a "Media Blending, Delivery, Protection, and Placement Plan". The submittal must be approved by the Engineer prior to any blending of the Treatment Media.
 - 1) Media Blending, Delivery, Protection, and Placement Plan shall include, but not limited to, (1) the location of media storage onsite, (2) equipment used to place the media including load ground pressure information, and (3) sequencing of media placement
 - b. Qualification Data: For each testing agency.
 - c. Laboratory Information: Include the following information for the laboratories used for the material testing:
 - 1) Name of Lab.
 - 2) Address.
 - 3) Phone Number.
 - 4) Contact person with email.
 - 5) Date of current certification by ASTM, AASHTO, MDOT, or EGLE.
 - d. Field quality-control reports.
- F. Delivery, Storage and Handling:
- 1. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and compliance with state and Federal laws, if applicable.
 - 2. Bulk Materials:
 - a. Do not dump or store bulk materials near structures, utilities, walkways and pavement, or on existing turf areas or plants outside of the designated stockpile area.
 - b. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
 - c. Do not move or handle materials when they are wet or frozen.
 - 3. Hauling Materials:
 - a. Do not haul over surfacing in process of construction.
 - b. Loads: Of uniform capacity.
 - c. Maintain consistent gradation of material delivered; loads of widely varying gradations will be cause for rejection.

- d. Hauling of accepted media from the point of production to the construction site shall be in trucks with cleaned beds free of any other material that are being used for no other purpose than to transport Treatment Media, Woodchips, or Coarse Media. Trucks that have been hauling other rock or sand materials shall be thoroughly washed prior to loading with media.
 - e. Under no circumstances shall loaders and trucks that have been used to haul dirt, sludge, debris, stumps, vegetative, or other organic-based materials be allowed to haul Treatment Media, Woodchips, or Coarse Media, unless approved by the Engineer. The Engineer may elect to allow loaders/trucks which have hauled such material to be used, provided that the truckbed is thoroughly washed and cleaned to the Engineer's satisfaction.
 - f. Should a load of material be delivered to the Site by the Supplier in a truckbed that does not meet the above criteria, the entire load will be rejected and shall be removed immediately. The Contractor shall bear all costs associated with removal. Any and all rejected material shall not be used even after reprocessing/washing.
 - g. Trucks hauling specified media to the Construction Site shall follow specific traffic routes to help preclude excessive pickup of foreign materials that may contaminate the specified media. The traffic routes will be established by the Contractor and may be reviewed by the Owner or Engineer.
 - h. Temporary stockpiling of Treatment Media, Woodchips, or Coarse Media will be allowed only if material is covered and kept clean from other site debris. The stockpile areas shall be well drained and sloped and bermed as necessary to preclude contact with storm runoff and drainage from other material stockpiles and equipment areas. To the maximum extent practicable, stockpiles shall be placed so as to avoid contamination from vehicles, stationary equipment, and excessive dust or other airborne contaminants.
 - i. The Contractor shall clearly delineate and identify all specified media stockpiling areas onsite.
4. Handling and Spreading Materials:
- a. Distribute material to provide required density, depth, grade, and dimensions with allowance for subsequent lifts.
 - b. Produce even distribution of material upon roadway or prepared surface without segregation.
 - c. Use low ground pressure spreading equipment with a maximum ground pressure of 5 psi.

PART 2 PRODUCTS**A. Treatment Media**

1. Treatment Media shall be mineral aggregate and meet the gradation requirements below and be thoroughly cleaned and free of dirt, clay, silt, asphalt, organic material, or other foreign matter and all aggregate passing the No. 4 sieve size. Treatment Media is described as MDOT 17A aggregate with a final screening over a 3/8-inch screen. The following treatment media description meets MDOT 17A for all categories except No. 4 where standard gradation allows up to 8 percent passing.

US Sieve Size	Sieve Size (mm)	Percent Passing by Weight
1-inch	25.0	100
3/4-inch	19.0	90-100
1/2-inch	12.5	50-75
3/8-inch	9.5	20-50
1/4-inch	6.3	0.5-20
No. 4	4.75	<1*

*Note: No. 4 gradation is stricter percent passing than MDOT 17A.

2. Treatment Media shall be thoroughly washed and free of dirt, clay, silt, asphalt, organic material, or other foreign matter. Loss by washing shall be less than 1 percent.

B. Woodchips:

1. Woodchips shall consist of knife-produced, screened, coarse sawmill woodchips manufactured from clean virgin wood. Chips shall be predominantly blocky in shape and conform to ISO 17225-4 Class P45S or P63S featuring sizes ranging from 1 centimeter to 5 centimeters in size.
2. Shredded wood, mulch, hog fuel, tub-ground material, arborist chips, brush chips, and materials containing leaves, needles, or other non-woody vegetative matter are not acceptable.
3. Woodchips shall be thoroughly screened and free of dirt, clay, silt, asphalt, organic material, or other foreign matter.

- C. Coarse Media: Coarse Media shall be rock or cobble and be between 3 and 6 inches according to AASHTO No. 1 standards and be thoroughly cleaned and free of dirt, clay, silt, asphalt, organic material, or other foreign matter and all aggregate passing the No. 4 sieve size.

PART 3 EXECUTION

A. General:

- 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, asphalt/concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, solid waste, or acid has been deposited in the Treatment Media, Woodchips or Coarse Media.
- 2. Proceed with placement only after unsatisfactory conditions have been corrected and approved by the Engineer.
- 3. Finish Grading: Grade Woodchips, Treatment Media, and Coarse Media to a loose, uniform surface plane as smooth as media size will allow. Do not compact media. Roll and rake, remove ridges, and fill depressions to meet finish grades.

B. Equipment:

- 1. Non-compacting Equipment: Contractor shall use equipment that prevents compaction of the media and, if required to travel over the media, shall not exceed 5 psi loading ground pressure.

C. Construction Courses:

- 1. Media (all sizes):
 - a. Maximum Completed Lift Thickness: 6 inches for treatment media and surface media, 12 inches for coarse media.
 - b. Completed Course Total Thickness: As shown on the Drawings.
 - c. Spread lift on preceding course to required cross-section.
 - d. Blade or broom surface to maintain true line, grade, and cross-section.
 - e. Contractor shall use means of course construction that do not exceed 5 psi loading ground pressure.

D. Protection:

- 1. Protect areas of in-place media from compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
 - a. Storage of construction materials, debris, or excavated material.
 - b. Parking vehicles or equipment.

- c. Vehicle traffic.
 - d. Foot traffic.
 - e. Impoundment of water.
 - f. Excavation or other digging unless otherwise indicated.
 - g. Divert stormwater runoff from in-place media until vegetation is established or other adequate stabilization is in place. Engineer approval required.
- 2. If either media is compacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the media and contamination; restore the subgrade as directed by Engineer and replace contaminated Treatment Media, Woodchips, or Coarse Media with new media.
- E. Cleaning:
- 1. Protect areas adjacent to media preparation and placement areas from contamination. Keep adjacent paving and construction clean and work area in an orderly condition.
 - 2. Remove surplus media and waste material including excess media, unsuitable materials, trash, and debris and legally dispose of them off the Owner's property unless otherwise indicated.
 - a. Dispose of excess subsoil, media, and unsuitable materials onsite where directed by the Owner.

END OF SECTION

SECTION 40 27 00
PROCESS PIPING AND SPECIALTIES

PART 1 GENERAL

1.01 REFERENCES

- A. American Society of Testing and Materials International (ASTM).

1.02 DEFINITIONS

- A. Submerged or Wetted:
 - 1. Zone below elevation of: Detention Basin Emergency Spillway (EL 749).

1.03 DESIGN REQUIREMENTS

- A. Where pipe diameter, thickness, pressure class, pressure rating, or thrust restraint is not shown or specified, design piping system in accordance with the following:
 - 1. Buried Piping: H20-S16 traffic load with 1.5 impact factor, AASHTO HB-17, as applicable.

1.04 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Fabricated Piping: Layout drawing showing location of each pipe section and each special length; number or otherwise designate laying sequence on each piece.
 - 2. Pipe Wall Thickness: Identify wall thickness and rational method or standard applied to determine wall thickness for each size of each different service including exposed, submerged, buried, and concrete-encased installations for Contractor-designed piping.
- B. Informational Submittals:
 - 1. Manufacturer's Certification of Compliance:
 - a. Pipe and fittings.
 - 2. Nondestructive inspection and testing procedures.
 - 3. Laboratory Testing Equipment: Certified calibrations, manufacturer's product data, and test procedures.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Flanges: Securely attach metal, hardboard, or wood protectors over entire gasket surface.
- B. Threaded or Socket Welding Ends: Fit with metal, wood, or plastic plugs or caps.
- C. Linings and Coatings: Prevent excessive drying.
- D. Cold Weather Storage: Locate products to prevent coating from freezing to ground.
- E. Handling: Use heavy canvas or nylon slings to lift pipe and fittings.

PART 2 PRODUCTS

2.01 PIPING

- A. As specified on Piping Data Sheet(s) and Piping Schedule located at the end of this section as Supplement.
- B. Diameters Shown:
 - 1. Standardized Products: Nominal size.

2.02 JOINTS

- A. Mechanical connections of high-density polyethylene pipe to auxiliary equipment such as valves, and other piping systems shall be through flanged connections consisting of the following:
 - 1. A polyethylene stub end thermally butt-fused to end of pipe.
 - 2. Steel backing flange, 125-pound, ASME B16.1 standard.
 - 3. Bolts and nuts of sufficient length to show a minimum of three complete threads when joint is made and tightened to manufacturer's standard.
Retorque nuts after 4 hours.
 - 4. Gaskets as required.

2.03 GASKET LUBRICANT

- A. Lubricant shall be supplied by pipe manufacturer and no substitute or "Or-equal" will be allowed.

2.04 RESTRAINT COUPLING

- A. Restraint coupling shall be a wide range restraint coupling with the following specifications:
 - 1. Romac Industries, Inc. Alpha Wide Range Restraint Coupling, "Or-equal."
 - 2. Sized to meet specifications of the inflow pipe from the siphon box and the distribution piping, as shown in the Drawings.
 - 3. Material: Type 304 or Type 316 Stainless Steel

2.05 VENT AND DRAIN VALVES

- A. Pipeline 2-Inch Diameter and Smaller: 1/2-inch vent, 1-inch drain, unless shown otherwise.
- B. Pipelines 2-1/2-Inch Diameter and Larger: 3/4-inch vent, 1-inch drain, unless shown otherwise.

2.06 FABRICATION

- A. Mark each pipe length on outside with the following:
 - 1. Size or diameter and class.
 - 2. Manufacturer's identification and pipe serial number.
 - 3. Location number on laying drawing.
 - 4. Date of manufacture.
- B. Code markings according to approved Shop Drawings.

2.07 FINISHES

- A. Factory prepare, prime, and finish coat in accordance with Pipe Data Sheet(s) and Piping Schedule.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify size, material, joint types, elevation, horizontal location, and pipe service of existing pipelines to be connected to new pipelines or new equipment.
- B. Inspect size and location of structure penetrations to verify adequacy of wall pipes, sleeves, and other openings.

3.02 PREPARATION

- A. Notify the Engineer at least 2 weeks prior to field fabrication of pipe or fittings.
- B. Inspect pipe and fittings before installation, clean ends thoroughly, and remove foreign matter and dirt from inside.
- C. Damaged Coatings and Linings: Repair using original coating and lining materials in accordance with manufacturer's instructions.

3.03 INSTALLATION—GENERAL

- A. Join pipe and fittings in accordance with manufacturer's instructions, unless otherwise shown or specified.
- B. Remove foreign objects prior to assembly and installation.
- C. Flanged Joints:
 - 1. Install perpendicular to pipe centerline.
 - 2. Bolt Holes: Straddle vertical centerlines, aligned with connecting equipment flanges or as shown.
 - 3. Use torque-limiting wrenches to ensure uniform bearing and proper bolt tightness.
 - 4. Plastic Flanges: Install annular ring filler gasket at joints of raised-face flange.
 - 5. Grooved Joint Flange Adapters: Include stainless steel washer plates as required for mating to serrated faces and lined valves and equipment.
 - 6. Raised-Face Flanges: Use flat-face flange when joining with flat-faced ductile or cast iron flange.
 - 7. Verify compatibility of mating flange to adapter flange gasket prior to selecting grooved adapter flanging.
 - 8. Flange fillers are to be avoided, but if necessary, may be used to make up for small angles up to 6 degrees and for filling gaps up to 2 inches between flanges. Stacked flange fillers shall not be used.
 - 9. Threaded flanged joints shall be shop fabricated and delivered to Site with flanges in-place and properly faced.
 - 10. Manufacturer: Same as pipe manufacturer.
- D. Threaded and Coupled Joints:
 - 1. Conform to ASME B1.20.1.
 - 2. Produce sufficient thread length to ensure full engagement when screwed home in fittings.

3. Countersink pipe ends, ream and clean chips and burrs after threading.
4. Make connections with not more than three threads exposed.
5. Lubricate male threads only with thread lubricant or tape as specified on Piping Data Sheets.

E. Grooved-End Joints:

1. Piping shall be grooved in accordance with the manufacturer's latest published instructions and shall be accurately cut with tools conforming to coupling manufacturer's standards and to AWWA C606.
2. Install grooved joint couplings and gaskets in accordance with manufacturer's latest published installation instructions.

F. High-Density Polyethylene Piping:

1. Join pipes, fittings, and flange connections by means of thermal butt-fusion.
2. Perform butt-fusion in accordance with pipe manufacturer's recommendations as to equipment and technique.
3. Special Precautions at Flanges: Polyethylene pipe connected to heavy fittings, manholes, and rigid structures shall be supported in such a manner that no subsequent relative movement between polyethylene pipe at flanged joint and rigid structures is possible.

G. Restraint Coupling:

1. Confirm outer diameters of pipes to be joined by restraint coupling are within coupling range of applicability
2. Join pipes according to the manufacturer's recommendations as to technique

3.04 INSTALLATION—EXPOSED PIPING

- A. Piping Runs: Parallel and perpendicular to floor of structures, unless shown otherwise.
- B. Group piping wherever practical at common elevations.
- C. Install piping so that no load or movement in excess of that stipulated by equipment manufacturer will be imposed upon equipment connection; install to allow for contraction and expansion without stressing pipe, joints, or connected equipment.

D. Piping clearance, unless otherwise shown:

1. From Adjacent Work: Minimum 1 inch from nearest extremity of completed piping system including flanges, valve bodies or mechanisms, insulation, or hanger/support systems.

3.05 INSTALLATION—BURIED PIPE

A. Joints:

1. Dissimilar Buried Pipes: Provide concrete closure collar for gravity and low pressure (maximum 10 psi) piping or as shown.
2. Concrete Encased or Embedded Pipe: Do not encase joints in concrete, unless specifically shown.

B. Placement:

1. Keep trench dry until pipe laying and joining are completed.
2. Exercise care when lowering pipe into trench to prevent twisting or damage to pipe.
3. Measure for grade at pipe invert, not at top of pipe.
4. Excavate trench bottom and sides of ample dimensions to permit visual inspection and testing of entire flange, valve, or connection.
5. Prevent foreign material from entering pipe during placement.
6. Close and block open end of last laid pipe section when placement operations are not in progress and at close of day's work.
7. Lay pipe upgrade with bell ends pointing in direction of laying.
8. Deflect pipe at joints for pipelines laid on a curve using unsymmetrical closure of spigot into bell. If joint deflection of standard pipe lengths will not accommodate horizontal or vertical curves in alignment, provide:
 - a. Shorter pipe lengths.
 - b. Special mitered joints.
 - c. Standard or special fabricated bends.
9. After joint has been made, check pipe alignment and grade.
10. Place sufficient pipe zone material to secure pipe from movement before next joint is installed.
11. Prevent uplift and floating of pipe prior to backfilling.

C. HDPE Pipe Placement:

1. Lay pipe snaking from one side of trench to other.
2. Offset: As recommended by manufacturer for maximum temperature variation between time of fusion welding and during operation.
3. Do not lay pipe when temperature is below 40 degrees F, or above 90 degrees F when exposed to direct sunlight.

4. Shield ends to be joined from direct sunlight prior to and during the laying operation.

D. Tolerances:

1. Deflection from Horizontal Line, HDPE: Maximum 2 inches.
2. Deflection From Vertical Grade: Maximum 1/4 inch.
3. Joint Deflection: Maximum of 75 percent of manufacturer's recommendation.
4. Horizontal position of pipe centerline on alignment around curves maximum variation of 1.75 feet from position shown.
5. Pipe Cover: Minimum 3 feet, unless otherwise shown.

3.06 BRANCH CONNECTIONS

- A. Do not install branch connections smaller than 1/2-inch nominal pipe size, unless shown otherwise.
- B. When line of lower pressure connects to a line of higher pressure, requirements of Piping Data Sheet for higher pressure rating prevails, unless otherwise shown.
- C. Threaded Pipe Tap Connections:
 1. Limitations: Threaded taps in pipe barrel are unacceptable.

3.07 VENTS AND DRAINS

- A. Vents and drains at high and low points in piping required for completed system may or may not be shown. Install vents on high points and drains (3/8-inch holes at 15-feet spacing) on low points of pipelines at all low and high point locations.

3.08 FIELD FINISHING

- A. Notify Engineer at least 3 days prior to start of any surface preparation or coating application work.
- B. Any piping damaged during installation shall be replaced and reinstalled according to the drawings.

3.09 FIELD QUALITY CONTROL

- A. Pressure Leakage Testing: As specified in Section 40 80 01, Process Piping Leakage Testing.

3.10 CLEANING

- A. Following assembly and testing, and prior to final acceptance, flush pipelines (except as stated below) with water at 2.5 fps minimum flushing velocity until foreign matter is removed.
- B. If impractical to flush large diameter pipe at 2.5 fps or blow at 4,000 fpm velocity, clean in-place from inside by brushing and sweeping, then flush or blow line at lower velocity.
- C. Remove accumulated debris through drains 2 inches and larger or by removing spools and valves from piping.

3.11 SUPPLEMENTS

- A. The supplements listed below, following “End of Section,” are part of this specification:
 - 1. Piping Schedule Legend.
 - 2. Piping Schedule.

END OF SECTION

PIPING SCHEDULE LEGEND**SERVICE**

SD	Storm Drain
SB	Splitter Box
DSC	Dosing Siphon Chamber
NTS	Natural Treatment System

EXPOSURE

BUR	Buried
EXP	Exposed
SUB	Submerged

MATERIAL

HDPE	High-Density Polyethylene
------	---------------------------

JOINT TYPE

FL	Flanged
GR	Grooved
HU	Hub and spigot
PRJ	Proprietary Restrained
RM	Restrained Mechanical
S	Screwed
W	Welded (including solvent and fusion)

PRESSURE TEST

G	Gravity Service: Test pressure is not shown on gravity services. Test to highest liquid level that pipe can be subject to.
H	Hydrostatic
I	In Service

Piping Schedule								
Service	Legend	Size (in) ¹	Exposure	Piping Material	Specification Section	Joint Type	Test Pressure (psig)	Test Specification Section
Splitter Box Inflow	SB	24	BUR	HDPE		Electrofuse	5	40 80 01
Dosing Chamber Inflow	DSC	8-12	BUR	HDPE		Electrofuse	5	40 80 01
NTS Distribution	NTS	4-12	BUR/EXP	HDPE		Electrofuse	5	40 80 01*
NTS Collection	NTS	4-12	BUR/SUB	HDPE		Electrofuse	5	40 80 01*
NOTES: *Pressure testing of pipes located within and over NTS 1 and NTS 2. The Contractor will flow water thru piping to verify minimal leakage and that all pipe joints are properly connected, flow test shall be witnessed by the Engineer, prior to covering.								

SECTION 40 27 02
PROCESS VALVES AND OPERATORS

PART 1 GENERAL

1.01 REFERENCES

- A. The following is a list of standards which may be referenced in this section:
1. American Society of Mechanical Engineers (ASME):
 - a. B16.1, Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250.
 - b. B16.44, Manually Operated Metallic Gas Valves for Use in Above Ground Piping Systems up to 5 psi.
 2. American Water Works Association (AWWA):
 - a. C500, Metal-Seated Gate Valves for Water Supply Service.
 - b. C508, Swing-Check Valves for Waterworks Service, 2-In. Through 24-In. (50-mm Through 600-mm) NPS.
 - c. C509, Resilient-Seated Gate Valves for Water Supply Service.
 - d. A276, Standard Specification for Stainless Steel Bars and Shapes.
 - e. A351/A351M, Standard Specification for Castings, Austenitic, for Pressure-Containing Parts.
 - f. A380, Standard Practice for Cleaning, Descaling, and Passivation of Stainless Steel Parts, Equipment, and Systems.
 - g. A564/A564M, Standard Specification for Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes.
 3. Manufacturers Standardization Society (MSS):
 - a. SP-80, Bronze Gate, Globe, Angle, and Check Valves.
 - b. SP-81, Stainless Steel, Bonnetless, Flanged Knife Gate Valves.
 - c. SP-85, Gray Iron Globe and Angle Valves, Flanged and Threaded Ends.
 4. NSF International (NSF): 61, Drinking Water System Components—Health Effects.
 5. UL.
 6. USC Foundation for Cross-Connection Control and Hydraulic Research.

1.02 SUBMITTALS

- A. Action Submittals:
1. Shop Drawings:
 - a. Product data sheets for each make and model. Indicate valve Type Number, applicable Tag Number, and facility name/number or service where used.

- b. Complete catalog information, descriptive literature, specifications, and identification of materials of construction.
- c. Sizing calculations for open-close/throttle and modulating valves.

B. Informational Submittals:

- 1. Manufacturer's Certificate of Compliance.
- 2. Tests and inspection data.
- 3. Operation and Maintenance Data.
- 4. Manufacturer's Certificate of Proper Installation.

PART 2 PRODUCTS

2.01 GENERAL

- A. Valves to include operator, actuator, chain wheel, extension stem, floor stand, operating nut, chain, wrench, and accessories to allow a complete operation from the intended operating level.
- B. Valve to be suitable for intended service. Renewable parts not to be of a lower quality than specified.
- C. Valve same size as adjoining pipe, unless otherwise called out on the Drawings or in Supplements.
- D. Valve ends to suit adjacent piping.
- E. Resilient seated valves shall have no leakage (drip-tight) in either direction at valve rated design pressure. All other valves shall have no leakage (drip-tight) in either direction at valve rated design pressure, unless otherwise allowed for in this section or in stated valve standard.
- F. Size operators and actuators to operate valve for full range of pressures and velocities.
- G. Valve to open by turning counterclockwise, unless otherwise specified.
- H. Factory mount operator, actuator, and accessories.

2.02 SCHEDULE

- A. Additional requirements relative to this section located at the end of this section.

2.03 MATERIALS

- A. Bronze and brass valve components and accessories that have surfaces in contact with water to be alloys containing less than 16 percent zinc and 2 percent aluminum.
 - 1. Approved alloys are of the following ASTM designations: B61, B62, B98/B98M (Alloy UNS No. C65100, C65500, or C66100), B139/B139M (Alloy UNS No. C51000), B584 (Alloy UNS No. C90300 or C94700), B164, B194, and B127.
 - 2. Stainless steel Alloy 18-8 may be substituted for bronze.
- B. Valve materials in contact with or intended for drinking water service to meet the following requirements:
 - 1. Materials to comply with requirements of the Safe Drinking Water Act and other applicable federal, state, and local requirements.
 - 2. Coatings materials to be formulated from materials deemed acceptable to NSF 61.

2.04 FACTORY FINISHING

- A. General:
 - 1. Interior coatings for valves and hydrants shall be in accordance with AWWA C550, unless otherwise specified.
 - 2. Material in contact with potable water shall conform to NSF 61.
 - 3. Exposed safety isolation valves and lockout valves with handles, or chain wheels shall be “safety yellow.”
- B. Where epoxy lining and coating are specified, factory finishing shall be as follows:
 - 1. In accordance with AWWA C550.
 - 2. Either two-part liquid material or heat-activated (fusion) material except only heat-activated material if specified as “fusion” or “fusion bonded” epoxy.
 - 3. Minimum 7-mil dry film thickness except where limited by valve operating tolerances.

2.05 VALVES

A. Gate Valves:

1. General:
 - a. AWWA gate valves to be in full compliance with stated AWWA standard and the following requirements:
 - 1) Provide 2-inch operating nut for AWWA gate valves 12 inches and smaller.
 - 2) Provide totally enclosed spur or bevel gear operator with indicator for AWWA gate valves 14 inches and larger.
 - 3) Provide Affidavit of Compliance per the applicable AWWA standard for AWWA gate valves.
 - 4) Mark AWWA gate valves with manufacturer's name or mark, year of valve casting, valve size, and working water pressure.
 - 5) Repaired AWWA gate valves shall not be submitted or supplied.
 - 6) Supply AWWA gate valves with stainless steel bolting.
 - 7) AWWA C509 and AWWA C515 valves may be substituted for each other.
2. Type V107 Gate Valve 2 Inches and Smaller:
 - a. All-bronze, screwed bonnet, packed gland, NPT threaded ends, single solid wedge gate, rising stem, stainless steel seat rings, Class 300 rated 300 psi SWP/1,000 psi CWP, complies with MSS SP-80 Type 2.
 - b. Manufacturers and Products:
 - 1) Crane; Figure 634E.
 - 2) Stockham; Figure B-145.
3. Type V137 Resilient Seated Gate Valve 4 Inches to 12 Inches:
 - a. UL Listed and FM Approved for fire protection, iron body, resilient seat, bronze mounted, ASME B16.1 Class 125 flanged ends, nonrising stem, 2-inch operating nut, in accordance with AWWA C509, design working water pressure 200 psig, full port, fusion-epoxy coated inside and outside per AWWA C550, NSF 61 certified, indicator post flange and indicator post assembly with lockable handle.
 - b. Manufacturers and Products:
 - 1) Kennedy Valve; Ken-Seal II.
 - 2) M&H Valve; Style 4067.
 - 3) Mueller; P-2360.

2.06 OPERATORS

A. Manual Operators:

1. General:
 - a. For AWWA valves, operator force not to exceed requirements of applicable valve standard. Provide gear reduction operator when force exceeds requirements.
 - b. For non-AWWA valves, operator force not to exceed applicable industry standard or 80 pounds, whichever is less, under operating condition, including initial breakaway. Provide gear reduction operator when force exceeds requirements.
 - c. Operator self-locking type or equipped with self-locking device.
 - d. Position indicator on quarter-turn valves.
 - e. Worm and gear operators one-piece design, worm-gears of gear bronze material. Worm of hardened alloy steel with thread ground and polished. Traveling nut type operator's threaded steel reach rod with internally threaded bronze or ductile iron nut.
2. Exposed Operator:
 - a. Cranks on gear type operator.
 - b. Chain wheel operator with tieback, extension stem, floor stand, and other accessories to permit operation from normal operation level.
 - c. Valve handles to take a padlock, and wheels a chain and padlock.
3. Buried Operator:
 - a. Buried service operators on valves larger than 2-1/2 inches shall have a 2-inch AWWA operating nut. Buried operators on valves 2 inches and smaller shall have cross handle for operation by forked key. Enclose moving parts of valve and operator in housing to prevent contact with the soil.
 - b. Buried service operators to be grease packed and gasketed to withstand submersion in water to 20 feet minimum.
 - c. Buried valves shall have extension stems, bonnets, and valve

2.07 ACCESSORIES

- A. Tagging: 1-1/2-inch diameter heavy brass or stainless steel tag attached with No. 16 solid brass or stainless steel jack chain for each valve operator, bearing valve tag number shown on Manual Valve Schedule.
- B. T-Handled Operating Wrench:
 1. One each galvanized operating wrenches, 4 feet long.
 2. Manufacturers and Products:
 - a. Mueller; No. A-24610.
 - b. Clow No.; F-2520.
 3. One each galvanized operating keys for cross handled valves.

- C. Extension Bonnet for Valve Operator: Complete with enclosed stem, extension, support brackets, and accessories for valve and operator.
 - 1. Manufacturers and Products:
 - a. Pratt.
 - b. DeZurik.
- D. Floor Stand:
 - 1. Nonrising, heavy pattern, indicating type.
 - 2. Complete with solid extension stem, coupling, stem guide brackets, and yoke attachment. Stem length as required to connect valve operating nut and floor stand.
 - 3. Stem Guide: Space such that stem L/R ratio does not exceed 200.
 - 4. Anchor Bolts: Type 304 stainless steel.
 - 5. Manufacturers and Products:
 - a. Clow; Figure F-5515.
 - b. Mueller, Figure A-26426.
- E. Floor Box:
 - 1. Plain type, for support of nonrising type stem.
 - 2. Complete with solid extension stem, operating nut, and stem guide brackets. Stem length as required to extend valve operating nut to within 3 inches of finish floor.
 - 3. Stem Guide: Space such that stem L/R ratio does not exceed 200.
 - 4. Anchor Bolts: Type 304 stainless steel.
 - 5. Manufacturers and Products:
 - a. Neenah Foundry; R 7506.
 - b. Clow; No. F5690.
- F. Chain Wheel and Guide:
 - 1. Complete with chain.
 - 2. Galvanized or cadmium-plated.
 - 3. Manufacturers and Products:
 - a. Clow Corp.; Figure F-5680.
 - b. Walworth Co.; Figure 804.
 - c. DeZurik Corp.; Series W or LWG.
- G. Cast-Iron Valve Box: Designed for traffic loads, sliding type, with minimum of 5-1/4-inch ID shaft.
 - 1. Box: Cast iron with minimum depth of 9 inches.
 - 2. Lid: Cast iron, minimum depth 3 inches, non-locking type marked STORMWATER.

3. Extensions: Cast iron.
 4. Two-piece box and lid for valves 4 inches through 12 inches, three-piece box and lid for valves larger than 12 inches with base sized for valve.
 5. Valve extension stem for valves with operating nuts 3 feet or greater below finish grade.
 6. Manufacturers and Products:
 - a. East Jordan Iron Works; Cast-Iron Valve Boxes.
 - b. Bingham & Taylor; Cast-Iron Valve Boxes.
- H. Indicator Post Assembly:
1. Cast or ductile iron post head, bell, and wrench with cast or ductile iron or steel barrel.
 2. Plexiglas or equal protected window to indicate OPEN and CLOSED position.
 3. Padlockable eye bolt for wrench.
 4. Adjustable bury depth. Bury depth as required for valve installation.
 5. UL Listed and FM Approved.
 6. Manufacturers and Products:
 - a. Clow; Style 2945.
 - b. Mueller; A-20806.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Flange Ends:
1. Flanged valve bolt holes shall straddle vertical centerline of pipe.
 2. Clean flanged faces, insert gasket and bolts, and tighten nuts progressively and uniformly.
- B. Valve Installation and Orientation:
1. General:
 - a. Install valves so handles operate from fully open to fully closed without encountering obstructions.
 - b. Install valves in location for easy access for routine operation and maintenance.
 - c. Install valves per manufacturer's recommendations.
 2. Gate, Globe, and Ball Valves:
 - a. Install operating stem vertical when valve is installed in horizontal runs of pipe having centerline elevations 4 feet 6 inches or less above finished floor, unless otherwise shown.

- b. Install operating stem horizontal in horizontal runs of pipe having centerline elevations greater than 4 feet 6 inches above finish floor, unless otherwise shown.
- C. Locate valve to provide accessibility for control and maintenance. Install access doors in finished walls and plaster ceilings for valve access.
- D. Extension Stem for Operator: Where depth of valve operating nut is 3 feet or greater below finish grade, furnish operating extension stem with 2-inch operating nut to bring operating nut to a point within 6 inches of finish grade.
- E. Torque Tube: Where operator for quarter-turn valve is located on floor stand, furnish extension stem torque tube of a type properly sized for maximum torque capacity of valve.
- F. Floor Box and Stem: Steel extension stem length shall locate operating nut in floor box.
- G. Chain Wheel and Guide: Install chain wheel and guide assemblies or chain lever assemblies on manually operated valves over 6 feet 9 inches above finish floor. Install chain to within 3 feet of finish floor. Where chains hang in normally traveled areas, use appropriate "L" type tie-back anchors. Install chains to within operator horizontal reach of 2 feet 6 inches maximum, measured from normal operator standing location or station.

3.02 TESTS AND INSPECTION

- A. Valve may be either tested while testing pipelines, or as a separate step.
- B. Test that valves open and close smoothly under operating pressure conditions. Test that two-way valves open and close smoothly under operating pressure conditions from both directions.
- C. Inspect air and vacuum valves as pipe is being filled to verify venting and seating is fully functional.
- D. Count and record number of turns to open and close valve; account for discrepancies with manufacturer's data.
- E. Set, verify, and record set pressures for relief and regulating valves.
- F. Automatic valves to be tested in conjunction with control system testing. Set opening and closing speeds, limit switches, as required or recommended by the Engineer.

- G. Test hydrostatic relief valve seating; record leakage. Adjust and retest to maximum leakage of 0.1 gpm per foot of seat periphery.

3.03 MANUFACTURER'S SERVICES

- A. Manufacturer's Representative: Present at Site for minimum person-days listed below, travel time excluded:
 - 1. 1 person-day for installation assistance and inspection.
 - 2. 1 person-day for functional and performance testing and completion of Manufacturer's Certificate of Proper Installation.

3.04 SUPPLEMENTS

- A. The supplement listed below, following "End of Section," is part of this specification.
 - 1. Manual Valve Schedule.

END OF SECTION

Manual Valve Schedule						
Tag No.	Valve Type No.	Size (inches)	Maximum Pressure (psig)	Average Flow (gpm)	Maximum Flow (gpm)	Fluid
1A	V137	8	10	450	750	stormwater
1B	V137	8	10	450	750	stormwater
1C	V137	8	10	450	750	stormwater
1D	V137	8	10	450	750	stormwater
1E	V137	8	10	450	750	stormwater
1F	V137	8	10	450	750	stormwater
NA*	V107	2	10	450	750	stormwater
NOTES: * 12 service valves needed at each siphon box.						

SECTION 40 80 01
PROCESS PIPING LEAKAGE TESTING

PART 1 GENERAL

1.01 SUBMITTALS

A. Informational Submittals:

1. Testing Plan: Submit prior to testing and include at least the information that follows.
 - a. Testing dates.
 - b. Piping systems and section(s) to be tested.
 - c. Test type.
 - d. Method of isolation.
 - e. Calculation of maximum allowable leakage for piping section(s) to be tested.
2. Certifications of Calibration: Testing equipment.
3. Certified Test Report.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 PREPARATION

- A. Notify the Engineer in writing 5 days in advance of testing. Perform testing in presence of the Engineer.
- B. Gravity Piping:
 1. Perform testing after service connections, manholes, and backfilling have been completed between stations to be tested.
 2. Determine groundwater level at time of testing by exploratory holes or other method acceptable to the Engineer.

3.02 HYDROSTATIC TEST FOR PRESSURE PIPING

- A. Fluid: Clean water of such quality to prevent corrosion of materials in piping system.
- B. Exposed Piping:
 1. Perform testing on installed piping prior to application of insulation.
 2. Maximum Filling Velocity: 0.25 foot per second, applied over full area of pipe.

3. Vent piping during filling. Open vents at high points of piping system or loosen flanges, using at least four bolts, or use equipment vents to purge air pockets.
4. Maintain hydrostatic test pressure continuously for 30 minutes, minimum, and for such additional time as necessary to conduct examinations for leakage.
5. Examine joints and connections for leakage.
6. Correct visible leakage and retest as specified.
7. Empty pipe of water prior to final cleaning.

C. Buried Piping:

1. Test after backfilling has been completed.
2. Expel air from piping system during filling.
3. Apply and maintain specified test pressure with hydraulic force pump. Valve off piping system when test pressure is reached.
4. Maintain hydrostatic test pressure continuously for 2 hours minimum, reopening isolation valve only as necessary to restore test pressure.
5. Determine actual leakage by measuring quantity of water necessary to maintain specified test pressure for duration of test.
6. Maximum Allowable Leakage:

$$L = \frac{SD(P)^{1/2}}{133,200}$$

where:

- | | | |
|---|---|---|
| L | = | Allowable leakage, in gallons per hour. |
| S | = | Length of pipe tested, in feet. |
| D | = | Nominal diameter of pipe, in inches. |
| P | = | Test pressure during leakage test, in pounds per square inch. |

7. Correct leakage greater than allowable, and retest as specified.

3.03 HYDROSTATIC TEST FOR GRAVITY PIPING

- A. Testing Equipment Accuracy: Plus or minus 1/2-gallon water leakage under specified conditions.
- B. Maximum Allowable Leakage: 0.16 gallons per hour per inch diameter per 100 feet. Include service connection footage in test section, subjected to minimum head specified.

C. Exfiltration Test:

1. Hydrostatic Head:
 - a. At least 6 feet above maximum estimated groundwater level in section being tested.
 - b. No less than 6 feet above inside top of highest section of pipe in test section, including service connections.
2. Length of Pipe Tested: Limit length such that pressure on invert of lower end of section does not exceed 30 feet of water column.

D. Infiltration Test:

1. Groundwater Level: At least 6 feet above inside top of highest section of pipe in test section, including service connections.

E. Piping with groundwater infiltration rate greater than allowable leakage rate for exfiltration will be considered defective even if pipe previously passed a pressure test.

F. Defective Piping Sections: Replace or test and seal individual joints, and retest as specified.

3.04 PNEUMATIC TEST FOR GRAVITY PIPING

A. Equipment:

1. Calibrate gauges with standardized test gauge at start of each testing day. Engineer will witness calibration.
2. Install gauges, air piping manifolds, and valves at ground surface.
3. Provide pressure release device, such as rupture disc or pressure relief valve, to relieve pressure at 6 psi or less.
4. Restrain plugs used to close sewer lines to prevent blowoff.

B. Procedure:

1. Require that no person enter manhole where pipe is under pressure.
2. Slowly introduce air into pipe section until internal air pressure reaches 4 psi greater than average back pressure of groundwater submerging pipe.
3. Allow 2 minutes minimum for air temperature to stabilize.

- C. Allowable Leakage: Test section will be considered defective when time required for pressure to decrease from 3.5 to 2.5 psi greater than average back pressure of groundwater submerging pipe is less than that computed utilizing values from following table:

TABLE 1*					
A Pipe Diameter (Inches)	B Time per Foot up to Length in Col C (Seconds)	C Test Length (Feet)	D Test Time for any Length Between Col C & E (Min:Sec)	E Length at Which Time in Col F Applies (Feet)	F Time per Foot for Total Length (Seconds)
4	0.18	636	1:54	1,114	0.10
6	0.40	424	2:50	743	0.23
8	0.71	318	3:47	557	0.41
10	1.11	255	4:43	446	0.63
12	1.60	212	5:40	371	0.91
15	2.50	170	7:05	297	1.42
18	3.62	141	8:30	248	2.06
21	4.92	121	9:55	212	2.81
24	6.42	106	11:20	187	3.67
EXAMPLE: 15-inch diameter pipe: For 150 feet, T = 2.50 sec (Col B) x 150 ft = 375 sec = 6:15 For 250 feet, T = 7:05 (Col D) For 500 feet, T = 1.42 sec (Col F) x 500 ft = 710 sec = 11:50					
*Based on 0.003 cfm per square foot with a minimum significant loss of 2 cfm and a maximum loss of 3.5 cfm.					

- D. Piping with groundwater infiltration rate greater than allowable leakage rate for exfiltration will be considered defective even if pipe previously passed a pressure test.
- E. Defective Piping Sections: Replace or test and seal individual joints, and retest as specified.

3.05 FIELD QUALITY CONTROL

A. Test Report Documentation:

1. Test date.
2. Description and identification of piping tested.
3. Test fluid.
4. Test pressure.
5. Remarks, including:
 - a. Leaks (type, location).
 - b. Repair/replacement performed to remedy excessive leakage.
6. Signed by the Contractor and Engineer to represent that test has been satisfactorily completed.

END OF SECTION

"General Decision Number: MI20260001 06/25/2026

State: Michigan

Construction Types: Highway

Counties: Michigan Counties of
Alcona, Alger, Allegan, Alpena, Antrim,
Arenac, Baraga, Barry, Bay, Benzie,
Berrien, Branch, Calhoun, Cass,
Charlevoix, Cheboygan, Chippewa, Clare,
Clinton, Crawford, Delta, Dickinson,
Eaton, Emmet, Genesee, Gladwin, Gogebic,
Grand Traverse, Gratiot, Hillsdale,
Houghton, Huron, Ingham, Ionia, Iosco,
Iron, Isabella, Jackson, Kalamazoo,
Kalkaska, Kent, Keweenaw, Lake, Lapeer,
Leelanau, Lenawee, Livingston, Luce,
Mackinac, Macomb, Manistee, Marquette,
Mason, Mecosta, Menominee, Midland,
Missaukee, Monroe, Montcalm,
Montmorency, Muskegon, Newaygo, Oakland,
Oceana, Ogemaw, Ontonagon, Osceola,
Oscoda, Otsego, Ottawa, Presque Isle,
Roscommon, Saginaw, Sanilac,
Schoolcraft, Shiawassee, St Clair, St
Joseph, Tuscola, Van Buren, Washtenaw,
Wayne and Wexford

Modification Number	Publication Date
1	01/09/2026
2	05/18/2026
3	06/25/2026

CARP0004-004 06/01/2025

	Rates	Fringes
CARPENTER: PILEDRIVER (REMAINDER OF STATE).....	\$ 35.57	21.54

CARP0004-005 06/01/2025

	Rates	Fringes
CARPENTER: PILEDRIVER (LIVINGSTON (TOWNSHIPS OF BRIGHTON, DEERFIELD, GENOA, HARTLAND, OCEOLA & TYRONE), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES).....	\$ 41.37	28.69

ELEC0017-005 06/01/2025

	Rates	Fringes
LINE CONSTRUCTION: OPERATOR B (SHALL BE PROFICIENT IN OPERATING ANY 2 OF THE ABOVE MENTIONED PIECES OF EQUIPMENT LISTED UNDER OPERATOR A.).....	\$ 38.98	20.26

LINE CONSTRUCTION: OPERATOR A (SHALL BE PROFICIENT IN OPERATING ALL POWER EQUIPMENT INCLUDING: BACKHOE, EXCAVATOR, DIRECTIONAL BORE AND BOOM/DIGGER TRUCK.).....	\$ 41.71	21.16
LINE CONSTRUCTION: JOURNEYMAN SPECIALIST JOURNEYMAN SPECIALIST: REFERS TO A CREW OF ONLY ONE PERSON WORKING ALONE.....	\$ 56.65	26.09
LINE CONSTRUCTION: JOURNEYMAN SIGNAL TECH, COMMUNICATIONS TECH, TOWER TECH & FIBER OPTIC SPLICERS.....	\$ 49.26	23.66
LINE CONSTRUCTION: GROUNDMAN/DRIVER.....	\$ 33.32	18.40

ENGI0324-003 06/01/2025

	Rates	Fringes
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 18- OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....	\$ 35.78	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 17- COMPRESSOR OR WELDER OPERATOR (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....	\$ 32.29	15.40
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 16- FORKLIFT AND 1 DRUM HOIST (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....	\$ 46.77	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 15- HOISTING OPERATOR; 2 DRUM HOIST AND RUBBER TIRED BACKHOE (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....	\$ 49.97	28.25

14- CRANE OPERATOR ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 51.61 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

13- CRANE OPERATOR; JOB MECHANIC AND 3 DRUM HOIST AND EXCAVATOR (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 50.61 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

12- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 120' OR LONGER ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 51.97 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

11- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 120' OR LONGER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 50.97 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

10- TOWER CRANE & DERRICK OPERATOR (WHERE OPERATOR'S WORK STATION IS 50 FT. OR MORE ABOVE FIRST SUB-LEVEL) ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 52.70 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

9- TOWER CRANE & DERRICK OPERATOR (WHERE OPERATOR'S WORK STATION IS 50 FT. OR MORE ABOVE FIRST SUB-LEVEL) (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 51.70 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

8- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 140' OR LONGER ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 53.15 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

7- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 140' OR LONGER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 52.15 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

6- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 220' OR LONGER ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 53.42 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

5- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 220' OR LONGER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 52.42 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

4- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 300' OR LONGER ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 54.92 28.25
 OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

3- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 300' OR LONGER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 53.92 28.25
 OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

2- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 400' OR LONGER ON A CRANE THAT REQUIRES AN OILER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 56.42 28.25
 OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP

1- ENGINEER WHEN OPERATING COMBINATION OF BOOM AND JIB 400' OR LONGER (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:) FOOTNOTE: PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 55.42 28.25

ENGI0324-004 06/01/2025

Rates

Fringes

OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP
 6- OILER AND FIRE TENDER (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES)
 FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS

DAY.....\$ 35.78	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 6-OILER AND FIRE TENDER. (AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 35.78	
28.25	
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 5-AIR COMPRESSOR, WELDER, GENERATORS, CONVEYORS. (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 32.29	
15.40	
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 5-AIR COMPRESSOR, WELDER, GENERATORS, CONVEYORS. (AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 32.29	
15.40	
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 4- AIR TUGGER (SINGLE DRUM), MATERIAL HOIST PUMP 6" OR OVER, ELEVATORS, BROKK CONCRETE BREAKER. (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 46.77	
28.25	
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 4- AIR TUGGER (SINGLE DRUM), MATERIAL HOIST PUMP 6" OR OVER, ELEVATORS, BROKK CONCRETE BREAKER. (AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY,	

THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 46.77	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 3- REGULAR EQUIPMENT OPERATOR, CRAE, DOZER, LOADER, HOIST, STRADDLE WAGON, MECHANIC, GRADER AND HYDRO EXCAVATOR. (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 50.61	
	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 3- REGULAR EQUIPMENT OPERATOR, CRAE, DOZER, LOADER, HOIST, STRADDLE WAGON, MECHANIC, GRADER AND HYDRO EXCAVATOR. (AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 50.61	
	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 2- CRANE OPERATOR WITH MAIN BOOM & JIB 140' OR LONGER, TOWER CRANE; GANTRY CRANE; WHIRLEY DERRICK. (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 52.15	
	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 2- CRANE OPERATOR WITH MAIN BOOM & JIB 140' OR LONGER, TOWER CRANE; GANTRY CRANE; WHIRLEY DERRICK. (AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.....\$ 52.15	
	28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP 1- CRANE OPERATOR WITH MAIN BOOM & JIB 400', 300', OR 220' OR LONGER. (AREA 2: ANTRIM, BREEZE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE, AND WEXFORD COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB 400; OR	

LONGER: \$3.00 ADDITIONAL TO THE GROUP 1 RATE. PAID
HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF
JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS
DAY.....\$ 55.02 28.25
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: GROUP
1- CRANE OPERATOR WITH MAIN BOOM & JIB 400', 300',
OR 220' OR LONGER. (AREA 1: ALLEGAN, BARRY,
BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE,
IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON,
MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA,
OSCEOLA, OTTAWA, ST. JOSEPH, AND VAN BUREN
COUNTIES) FOOTNOTE: CRANE OPERATOR WITH MAIN BOOM
AND JIB 300; OR LONGER: \$1.50 ADDITIONAL TO THE
GROUP 1 RATE. CRANE OPERATOR WITH MAIN BOOM AND JIB
400; OR LONGER: \$3.00 ADDITIONAL TO THE GROUP 1
RATE. PAID HOLIDYS: NEW YEAR'S DAY, MEMORIAL DAY,
FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND
CHRISTMAS DAY.....\$ 55.02 28.25

ENGI0324-005 09/01/2025

Rates

Fringes

OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 5- FIRE
PERSON, OILER (AREA 2: ALCONA, ALLEGAN, ALGER,
ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE,
BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD,
DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC,
GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON,
HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA,
JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKW,
LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE,
MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND,
MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON,
NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON,
SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
JOSEPH, RUSCOLA, VAN BUREN, AND WEXFORD COUNTIES)...\$ 30.35 12.10
OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 5- FIRE
PERSON, OILER (AREA 1: GENESEE, LAPEER, LIVINGSTON,
MACOMB, MONROE, OAKLAND, ST. CLAIR, WASTENAW, AND
WAYNE COUNTIES).....\$ 30.35 12.10
OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 4- BOILER;
CONCRETE SAW (40 HP OR OVER); CURING MACHINE
(SELF-PROPELLED); FARM TRACTOR (WITH ATTACHMENT);
FINISHING MACHINE (CONCRETE); HYDRAULIC PIPE
PUSHING MACHINE; MULCHING EQUIPMENT; PUMPS (2 OR
MORE UP TO 4-IN. DISCHARGE, IF USED 3 OR MORE HOURS
A DAY, GAS OR DIESEL POWERED-EXCLUDING SUBMERSIBLE
PUMPS); ROLLER (OTHER THAN ASPHALT); STUMP REMOVER;
TRENCHER (SERVICE); VIBRATING COMPACTION EQUIPMENT,
SELF-PROPELLED (6 FT. WIDE OR OVER); SWEEPER (WAYNE
TYPE); WATER WAGON AND EXTEND-A BOOM FORKLIFT.
(AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM,
ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN,
BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN,
CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND
TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON,
INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON,

KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKW, LEELANAU, LENAWE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, RUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 39.95 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 4- BOILER;
CONCRETE SAW (40 HP OR OVER); CURING MACHINE
(SELF-PROPELLED); FARM TRACTOR (WITH ATTACHMENT);
FINISHING MACHINE (CONCRETE); HYDRAULIC PIPE
PUSHING MACHINE; MULCHING EQUIPMENT; PUMPS (2 OR
MORE UP TO 4-IN. DISCHARGE, IF USED 3 OR MORE HOURS
A DAY, GAS OR DIESEL POWERED-EXCLUDING SUBMERSIBLE
PUMPS); ROLLER (OTHER THAN ASPHALT); STUMP REMOVER;
TRENCHER (SERVICE); VIBRATING COMPACTION EQUIPMENT,
SELF-PROPELLED (6 FT. WIDE OR OVER); SWEEPER (WAYNE
TYPE); WATER WAGON AND EXTEND-A BOOM FORKLIFT.
(AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB,
MONROE, OAKLAND, ST. CLAIR, WASTENAW, AND WAYNE
COUNTIES).....\$ 39.95 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 3- AIR
COMPRESSORS (600 CFM OR LARGER); AIR COMPRESSORS (2
OR MORE-LESS THAN 600 CFM); BOOM TRUCK
(NON-SWINGING, NON-POWERED TYPE BOOM); CONCRETE
BREAKER (SELF-PROPELLED OR TRUCK MOUNTED-INCLUDES
COMPRESSOR); CONCRETE PAVER (1 DRUM-1/2 YD. OR
LARGER); ELEVATOR (OTHER THAN PASSENGER);
MAINTENACNE PERSON; PUMP (2 OR MORE-4-IN. UP TO
6-IN. DISCHARGE- GAS OR DIESEL POWERED- EXCLUDING
SUBMERSIBLE PUMPS); PUMPCRETE MACHINE (AND SIMILAR
EQUIPMENT); WAGON DRILL (MULTIPLE); WELDING MACHINE
OR GENERATOR(2 OR MORE- 300 AMP. OR LARGER - GAS
OR DIESEL POWERED). (AREA 2: ALCONA, ALLEGAN,
ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY,
BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD,
DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC,
GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON,
HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA,
JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKW,
LEELANAU, LENAWE, LUCE, MACKINAC, MANISTEE,
MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND,
MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON,
NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON,
SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
JOSEPH, RUSCOLA, VAN BUREN, AND WEXFORD COUNTIES)...\$ 40.52 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND
CONSTRUCTION (INCLUDING SEWER): GROUP 3- AIR
COMPRESSORS (600 CFM OR LARGER); AIR COMPRESSORS (2
OR MORE-LESS THAN 600 CFM); BOOM TRUCK
(NON-SWINGING, NON-POWERED TYPE BOOM); CONCRETE
BREAKER (SELF-PROPELLED OR TRUCK MOUNTED-INCLUDES
COMPRESSOR); CONCRETE PAVER (1 DRUM-1/2 YD. OR
LARGER); ELEVATOR (OTHER THAN PASSENGER);
MAINTENACNE PERSON; PUMP (2 OR MORE-4-IN. UP TO
6-IN. DISCHARGE- GAS OR DIESEL POWERED- EXCLUDING
SUBMERSIBLE PUMPS); PUMPCRETE MACHINE (AND SIMILAR
EQUIPMENT); WAGON DRILL (MULTIPLE); WELDING MACHINE

OR GENERATOR(2 OR MORE- 300 AMP. OR LARGER - GAS OR DIESEL POWERED). (AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASTENAW, AND WAYNE COUNTIES).....\$ 40.52 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND CONSTRUCTION (INCLUDING SEWER): GROUP 2- BOOM TRUCK (POWER SWING TYPE BOOM); CRUSHER; HOIST; PUMP (1 OR MORE - 6-IN. DISCHARGE OR LARGER- GAS OR DIESEL- POWERED OR POWERED BY GENERATOR OF 300 AMPERES OR MORE- INCLUSIVE OF GENERATOR); SIDE BOOM TRACTOR (SMALLER THAN TYPE D-4 OR EQUIVALENT); TRACTOR (PNEU-TIRED, OTHER THAN BACKHOE OR FRONT END LOADER); TRENCHER (8-FT. DIGGING CAPACITY AND SMALLER); VAC TRUCK AND END DUMP OPERATOR. (AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKW, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, RUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 41.25 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND CONSTRUCTION (INCLUDING SEWER): GROUP 2- BOOM TRUCK (POWER SWING TYPE BOOM); CRUSHER; HOIST; PUMP (1 OR MORE - 6-IN. DISCHARGE OR LARGER- GAS OR DIESEL- POWERED OR POWERED BY GENERATOR OF 300 AMPERES OR MORE- INCLUSIVE OF GENERATOR); SIDE BOOM TRACTOR (SMALLER THAN TYPE D-4 OR EQUIVALENT); TRACTOR (PNEU-TIRED, OTHER THAN BACKHOE OR FRONT END LOADER); TRENCHER (8-FT. DIGGING CAPACITY AND SMALLER); VAC TRUCK AND END DUMP OPERATOR. (AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASTENAW, AND WAYNE COUNTIES)...\$ 41.25 25.25

OPERATOR: POWER EQUIPMENT, UNDERGROUND CONSTRUCTION (INCLUDING SEWER): GROUP 1- BACKFILLER TAMPER; BACKHOE; BATCH PLANT OPERATOR (CONCRETE); CLAMSHELL; CONCRETE PAVER (2 DRUMS OR LARGER); CONVEYOR LOADER (EUCLID TYPE); CRANE (CRAWLER, TRUCK TYPE OR PILE DRIVING); DOZER; DRAGLINE; ELEVATING GRADER; ENDLOADER; GRADALL (AND SIMILAR TYPE MACHINE); GRADER; MECHANIC; POWER SHOVEL; ROLLER (ASPHALT); SCRAPER (SELF-PROPELLED OR TRACTOR DRAWN); SIDE BOOM TRACTOR (TYPE D-4 OR EQUIVALENT AND LARGER); SLIP FORM PAVER; SLOPE PAVER; TRENCHER (OVER 8 FT. DIGGING CAPACITY); WELL DRILLING RIG; CONCRETE PUMP WITH BOOM OPERATOR; HYDRO EXCAVATOR. (AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKW, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE,

MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND,
 MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON,
 NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
 OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON,
 SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
 JOSEPH, RUSCOLA, VAN BUREN, AND WEXFORD COUNTIES)...\$ 45.98 25.25
 OPERATOR: POWER EQUIPMENT, UNDERGROUND
 CONSTRUCTION (INCLUDING SEWER): GROUP 1 (AREA 1:
 GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE,
 OAKLAND, ST. CLAIR, WASTENAW, AND WAYNE COUNTIES)...\$ 45.98 25.25

ENGI0324-006 06/01/2025

	Rates	Fringes
POWER EQUIPMENT OPERATORS:, AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION: GROUP 4- BOILER FIRE TENDER; CONCRETE BREAKER; OILER; FIRE TENDER; TRENCHER (SERVICE); FLEXPLANE OPERATOR; CLEFTPLANE OPERATOR; ROLLER OPERATOR (OTHER THAN ASPHALT); CURING EQUIPMENT OPERATOR (SELF-PROPELLED); POWER BIN OPERATOR; PLANT DRIER OPERATOR (ASPHALT); VIBRATORY COMPCITION EQUIPMENT OPEARTOR (6 FT. WIDE OR OVER); GUARD POST DRIVER OPERATOR (POWER DRIVEN); ALL MULCHING EQUIPMENT; STUMP REMOVER; CONCRETE PUM (UNDER 3-IN.); MESH INSTALLER (SELF-PROPELLED); END DUMP; SKID STEER.\$ 37.77	37.77	25.25
POWER EQUIPMENT OPERATORS:, AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION: GROUP 3- SCREENING PLANT OPERATOR; WASHING PLANT OPERATOR; CRUSTHER OPERATOR; BACKHOE (WITH 3/8 YD. BUCKET OR LESS); SIDE BOOM TRACTOR (SMALLER THAN D-4 TYPE OR EQUIVALENT); SWEEPER (WAYNE TYPE AND SIMILAR EQUIPMENT); GREASE TRUCK; AIR COMPRESSOR OPERATOR (600 CU. FT. PER MIN OR MORE); AIR COMPRESSOR OPERATOR (TWO OR MORE, LESS THAN 600 CFM); END LOADER OPERATOR (1 YARD CAPACITY AND OVER); SIDE BOOM TRACTOR (TYPE D OR EQUIVALENT OR LARGER); ENDLADER OPERATOR (UNDER 1 YARD CAPACITY); TRENCHER (SERVICE)\$ 38.33	38.33	25.25
POWER EQUIPMENT OPERATORS:, AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION: GROUP 2- ASPHALT PLANT OPERATOR; CRANE OPERATOR (DOES NOT INCLUDE WORK ON BRIDGE CONSTRUCTION PROJECTS WHEN THE CRANE OPERATOR IS ERECTING STRUCTURAL COMPONENTS); DRAGLINE OPERATOR; SHOVEL (EXCAVATOR) OPERATOR; LOCOMOTIVE OPERATOR; ELEVATING GRADER OPERATOR; PILE DRIVING OPERATOR; ROLLER OPERATOR (ASPHALT); BLADE GRADER OPERATOR; TRNECHING MACHINE OPERATOR (LADDER OR WHEEL TYPE); AUTO-GRADER; SELF-PROPELLED OR TRACTOR-DRAWN SCRAPER; CONVEYOR LOADER OPERATOR (EUCLID TYPE); BULLDOZER; HOISTING ENGINEER; TRACTOR OPERATOR; FINISHING MACHINE OPERATOR (ASPHALT); MECHANIC; PUMP OPERATOR (6-IN. DISCHARGE OR OVER, GAS, DIESEL POWERED OR GENERATOR OF 300 AMP. OR LARGER); SHOULDERING OR GRAVEL DISTRIBUTING MACHINE OPERATOR (SELF-PROPELLED); BACKHOE (WITH OVER 3/8 YD. BUCKET); SIDE BOOM TRACTOR (TYPE D-4 OR EQUIVALENT OR LARGER); TUBE FINISHER (SLIP FORM PAVING); GRADALL (AND SIMILAR TYPE MACHINE); ASPHALT PLANNER (SELF-PROPELLED); BATCH PLANT (CONCRETE-CENTRAL MIX); SLURRY MACHINE (ASPHALT); CONCRETE PUMP (3 IN.C AND OVER); ROTO-MILL; SWINGING BOOM TRUCK (OVER 12 TON CAPACITY); HYDRO		

DEMOLISHER (WATER BLASTER); FARM-TYPE TRACTOR WITH ATTACHED PAN; VACUUM TRUCK OPERATOR; BATCH PLANT (CONCRETE DRY BATCH); CONCRETE SAW OPERATOR (40 H.P. OR OVER); TRACTOR OPERATOR (FARM TYPE); FINISHING MACHINE OPERATOR (CONCRETE); GRADER OPEARTOR (SELF-PROPELLED FINE GRADE OR FORM (CONCRETE)); TRACTOR OPERATOR (FARM TYPE WITH ATTACHMENT); WAGON DRILL OPERATOR; BOOM OR WINCH HOIST TRUCK OPERATOR.	\$ 45.06	25.25
POWER EQUIPMENT OPERATORS:, AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION: GROUP 1- PAVER OPERATOR (5 BAGS OR MORE); SLIP FORM PAVER; ASPHALT PAVER (SELF-PROPELLED); SHOVEL (EXCAVATOR) INSTALLING UTILITIES OVER 20 FEET IN DEPTH.....	\$ 46.21	25.25

ENG10324-007 05/01/2025

	Rates	Fringes
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: REGULAR OPERATOR (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.).....	\$ 47.12	25.00
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: OILER AND FIREMAN (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.).....	\$ 41.76	25.00
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: MECHANIC WITH TRUCK AND TOOLS (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.)....	\$ 48.90	25.00
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: CRANE OPERATOR, MAIN BOOM & JIB 220' OR LONGER (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.)....	\$ 50.66	25.00
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: CRANE OPERATOR, MAIN BOOM & JIB 140' OR LONGER (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.)....	\$ 50.07	24.60
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: CRANE OPERATOR, MAIN BOOM & JIB 120' OR LONGER (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.)....	\$ 49.77	25.00
OPERATOR: POWER EQUIPMENT, STEEL ERECTION: COMPRESSOR, WELDER AND FORKLIFT (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:.)....	\$ 43.30	25.00

ENG10324-008 10/01/2023

	Rates	Fringes
OPERATOR: POWER EQUIPMENT, SEWER RELINING: GROUP 2- OPERATION OF HOT WATER HEATERS AND CIRCULATION SYSTEMS, WATER JETTERS AND VACUUM AND MECHANICAL DEBRIS REMOVAL SYSTEMS. (ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,		

CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD,
 DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN,
 GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE,
 HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON,
 ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE,
 LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MAR...\$ 35.33 15.44
 OPERATOR: POWER EQUIPMENT, SEWER RELINING: GROUP
 1- OPERATION OF AUDIO-VISUAL CLOSED CIRCUIT TV
 SYSTEM, INCLUDING REMOTE IN-GROUND CUTTER AND OTHER
 EQUIPMENT USED IN CONNECTION WITH THE CCTV SYSTEM.
 (ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC,
 BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH,
 CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA,
 CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON,
 EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE,
 GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO,
 KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU,
 LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB,
 MANISTEE, MAR.....\$ 37.37 15.44

ENGI0325-012 05/01/2025

Rates

Fringes

POWER EQUIPMENT OPERATORS - GAS DISTRIBUTION AND
 DUCT INSTALLATION WORK: GROUP 2- DOZER (LESS THAN
 D-6 EQUIVALENT), ENDLOADER (UNDER 2 YD. CAPACITY),
 SIDE BOOM (UNDER D-4 CAPACITY), BACKFILLER, PUMPS
 (1 OR 2 OF 6-INCH DISCHARGE OR GREATER), BOOM TRUCK
 (WITH POWERED BOOM), TRACTOR (WHEEL TYPE OTHER THAN
 BACKHOE OR FRONT ENDLOADER). TAMPER
 (SELF-PROPELLED), BOOM TRUCK (WITH NON-POWERED
 BOOM), CONCRETE SAW (20 HP OR LARGER), PUMPS (2 TO
 4 UNDER 6-INCH DISCHARGE), COMPRESSOR (2 OR MORE OR
 WHEN ONE IS USED CONTINUOUSLY INTO THE SECOND DAY)
 AND TRENCHER(SERVICE). OILER, HYDRAULIC PIPE
 PUSHING MACHINE, GREASE PERSON AND HYDROSTATIC
 TESTING OPERATOR. SCOPE OF WORK: THE CONSTRUCTION,
 INSTALLATION, TREATING AND RECONDITIONING OF
 PIPELINES TRANSPORTING GAS VAPORS WITHIN CITIES,
 TOWNS, SUBDIVISIONS, SUBURBAN AREAS, OR WITHIN
 PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING
 PRIVATE METER SETTINGS OF PRIVATE INDUSTRIAL,
 GOVERNMENTAL OR OTHER PREMISES, MORE COMMONLY
 REFERRED TO AS ""DISTRIBUTION WORK,"" STARTING FROM
 THE FIRST METERING STATION, CONNECTION, SIMILAR OR
 RELATED FACILITY, OF THE MAIN OR CROSS COUNTRY
 PIPELINE AND INCLUDING DUCT INSTALLATION.....\$ 36.05 25.25
 POWER EQUIPMENT OPERATORS - GAS DISTRIBUTION AND
 DUCT INSTALLATION WORK: GROUP 1- BACKHOE, CRANE,
 GRADER, MECHANIC, DOZER (D-6 EQUIVALENT OR LARGER),
 SIDE BOOM (D-4 EQUIVALENT OR LARGER),
 TRENCHER(EXCEPT SERVICE), ENDLOADER (2 YD. CAPACITY
 OR GREATER). SCOPE OF WORK: THE CONSTRUCTION,
 INSTALLATION, TREATING AND RECONDITIONING OF
 PIPELINES TRANSPORTING GAS VAPORS WITHIN CITIES,
 TOWNS, SUBDIVISIONS, SUBURBAN AREAS, OR WITHIN
 PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING
 PRIVATE METER SETTINGS OF PRIVATE INDUSTRIAL,
 GOVERNMENTAL OR OTHER PREMISES, MORE COMMONLY
 REFERRED TO AS ""DISTRIBUTION WORK,"" STARTING FROM
 THE FIRST METERING STATION, CONNECTION, SIMILAR OR

RELATED FACILITY, OF THE MAIN OR CROSS COUNTRY
PIPELINE AND INCLUDING DUCT INSTALLATION.....\$ 39.78 25.25

IRON0008-007 06/01/2024

Rates	Fringes
IRONWORKER: GENERAL CONTRACTS LESS THAN \$10,000,000 (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES) PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, JULY 4TH, LABOR DAY, THANKSGIVING DAY & CHRISTMAS DAY.....\$ 39.91	32.32
IRONWORKER: GENERAL CONTRACTS \$10,000,000 OR GREATER (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES) PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, JULY 4TH, LABOR DAY, THANKSGIVING DAY & CHRISTMAS DAY.....\$ 39.91	32.32
IRONWORKER - PRE-ENGINEERED METAL BUILDING ERECTOR (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES) PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, JULY 4TH, LABOR DAY, THANKSGIVING DAY & CHRISTMAS DAY.....\$ 23.70	6.95

IRON0025-002 06/01/2025

Rates	Fringes
IRONWORKER: REINFORCING (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:).....\$ 36.55	32.87
IRONWORKER: ORNAMENTAL AND STRUCTURAL (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:).....\$ 36.55	35.93
IRONWORKER - PRE-ENGINEERED METAL BUILDING ERECTOR: BAY, GENESEE, LAPEER, LIVINGSTON (EAST OF BURKHARDT ROAD), MACOMB, MIDLAND, OAKLAND, SAGINAW, ST. CLAIR, THE UNIVERSITY OF MICHIGAN, WASHTENAW (EAST OF U.S. 23) & WAYNE (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES.....\$ 30.02	28.13
IRONWORKER - PRE-ENGINEERED METAL BUILDING ERECTOR: ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX, EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO, KALKASKA, KENT, LAKE,	

LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE,
 MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA,
 OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:
 (ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE,
 CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT,
 HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER,
 LIVINGSTON, MACOM.....\$ 28.80 27.43

IRON0055-005 07/01/2022

	Rates	Fringes
IRONWORKER: PRE-ENGINEERED METAL BUILDINGS (LENAWEE AND MONROE COUNTIES).....	\$ 23.59	19.35
IRONWORKER: ALL OTHER WORK (LENAWEE AND MONROE COUNTIES).....	\$ 33.00	27.20

IRON0292-003 06/01/2020

	Rates	Fringes
IRONWORKER: INCLUDING PRE-ENGINEERED METAL BUILDING ERECTOR (BERRIEN AND CASS COUNTIES:).....	\$ 31.75	22.84

LAB00005-006 10/01/2022

	Rates	Fringes
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (SANILAC AND ST. CLAIR COUNTIES - ZONE 5).....	\$ 26.21	16.62
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (SANILAC AND ST. CLAIR COUNTIES - ZONE 5).....	\$ 24.75	16.35
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (OAKLAND COUNTY AND THE NORTHEAST PORTION OF LIVINGSTON COUNTY BORDERED BY OAK GROVE ROAD ON THE WEST AND M-59 ON THE SOUTH - ZONE 2)....	\$ 28.93	16.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVEL A, B, C. (OAKLAND COUNTY AND THE NORTHEAST PORTION OF LIVINGSTON COUNTY BORDERED BY OAK GROVE ROAD ON THE WEST AND M-59 ON THE SOUTH - ZONE 2).....	\$ 29.93	16.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (MONROE COUNTY - ZONE 4)	\$ 31.75	14.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (MONROE COUNTY - ZONE 4).....	\$ 31.75	14.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (MACOMB AND WAYNE COUNTIES - ZONE 1).....	\$ 28.93	16.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (MACOMB AND WAYNE COUNTIES - ZONE 1).....	\$ 29.93	16.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D (LIVINGSTON COUNTY (EAST OF OAK GROVE RD. AND SOUTH OF M-59, EXCLUDING THE CITY OF HOWELL); AND WASHTENAW COUNTY - ZONE 3).....	\$ 28.93	14.20
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (LIVINGSTON COUNTY (EAST OF OAK GROVE RD. AND		

SOUTH OF M-59, EXCLUDING THE CITY OF HOWELL); AND WASHTENAW COUNTY - ZONE 3).....	\$ 29.93	14.20
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (HILLSDALE, JACKSON AND LENAWEЕ COUNTIES - ZONE 4).....	\$ 27.13	14.95
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTETIVE EQUIPMENT; ALSO, LEVEL D. (HILLSDALE, JACKSON AND LENAWEЕ COUNTIES - ZONE 4).....	\$ 24.17	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - ZONE 7).....	\$ 23.20	13.80
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - ZONE 7).....	\$ 24.20	13.80
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); LIVINGSTON COUNTY (WEST OF OAK GROVE RD., INCLUDING THE CITY OF HOWELL) - ZONE 6).....	\$ 26.33	12.95
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); LIVINGSTON COUNTY (WEST OF OAK GROVE RD., INCLUDING THE CITY OF HOWELL) - ZONE 6).....	\$ 24.64	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - ZONE 8).....	\$ 23.74	12.95
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - ZONE 8)...	\$ 20.80	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH AND VAN BUREN COUNTIES - ZONE 9)	\$ 20.80	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B OR C. (ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH AND VAN BUREN COUNTIES - ZONE 9)	\$ 21.88	13.26
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B, OR C (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEbic, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - ZONE 11).....	\$ 25.18	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONUNCTION WITH SITE PREPARATION NOT		

REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D. (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - ZONE 11).....	\$ 22.58	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: LEVELS A, B, OR C (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE, AND WEXFORD COUNTIES- ZONE 10).....	\$ 17.45	12.75
LABORERS - HAZARDOUS WASTE ABATEMENT: CLASS B (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE, AND WEXFORD COUNTIES- ZONE 10).....	\$ 18.64	12.90
LABORERS - HAZARDOUS WASTE ABATEMENT: WORK PERFORMED IN CONJUNCTION WITH SITE PREPARATION NOT REQUIRING THE USE OF PERSONAL PROTECTIVE EQUIPMENT; ALSO, LEVEL D(ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE, AND WEXFORD COUNTIES- ZONE 10).....	\$ 16.45	12.75
LABORERS - HAZARDOUS WASTE ABATEMENT: CLASS A (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE, AND WEXFORD COUNTIES- ZONE 10).....	\$ 17.64	12.90

LABO0259-001 09/01/2025

	Rates	Fringes
LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 1- TUNNEL, SHAFT AND CAISSON LABORER, DUMP, SHANTY, HOG HOUSE TENDER, TESTING (ON GAS) AND WATCHMAN. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....	\$ 30.13	22.75
LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 2- MANHOLE, HEADWALL, CATCH BASIN BUILDER, BRICKLAYER TENDER, MORTAR MACHINE AND MATERIAL MIXER. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....	\$ 32.13	22.75
LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 3- AIR TOOL OPERATOR (JACKHAMMER, BUSH HAMMER AND GRINTER), FIRST BOTTOM, SECOND BOTTOM, CAGE TENDER, CAR PUSHER, CARRIER, CONCRETE, CONCRETE FORM, CONCRETE REPAIR, CEMENT INVERT LABORER, CEMENT FINISHER, CONCRETE SHOVELER, CONVEYOR, FLOOR,		

GASOLINE AND ELECTRIC TOOL OPERATOR, GUNITE, GROUT OPERATOR, WELDER, HEADING DINKY PERSON, INSIDE LOCK TENDER, PEA GRAVEL OPERATOR, PUMP, OUTSIDE LOCK TENDER, SCAFFOLD, TOP SIGNAL PERSON, SWITCH PERSON, TRACK, TUGGER, UTILITY PERSON, VIBRATOR, WINCH OPERATOR, PIPE JACKING, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.).

SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....\$ 28.13

22.75

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 4- TUNNEL, SHAFT, AND CAISSON MUCKER, BRACER, LINER PLATE, LONG HAUL DINKY DRIVER AND WELL POINT.

SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....\$ 23.97

16.93

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 5- TUNNEL, SHAFT AND CAISSON MINER, DRILL RUNNER, KEY BOARD OPERATOR, POWER KNIFE OPERATOR, REINFORCED STEEL OR MESH (E.G. WIRE MESH, STEEL MATS, DOWEL BARS, ETC.). SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....\$ 24.22

16.93

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 6- DYNAMITE AND POWDER. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....\$ 24.55

16.93

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. (AREA 1: MACOMB, OAKLAND, AND WAYNE COUNTIES).....\$ 17.83

16.93

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 1-
TUNNEL, SHAFT AND CAISSON LABORER, DUMP, SHANTY,
HOG HOUSE TENDER, TESTING (ON GAS) AND WATCHMAN.
SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF
EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS
INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO,
SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS,
TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS,
SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND
STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA
2: REMAINING COUNTIES).....\$ 32.13 17.95

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 2-
MANHOLE, HEADWALL, CATCH BASIN BUILDER, BRICKLAYER
TENDER, MORTAR MACHINE AND MATERIAL MIXER. SCOPE OF
WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE
AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL
THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND
TUNNELS FOR SEWERS , WATER, SUBWAYS,
TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS,
SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND
STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA
2: REMAINING COUNTIES).....\$ 34.40 17.95

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 3- AIR
TOOL OPERATOR (JACKHAMMER, BUSH HAMMER AND
GRINTER), FIRST BOTTOM, SECOND BOTTOM, CAGE TENDER,
CAR PUSHER, CARRIER, CONCRETE, CONCRETE FORM,
CONCRETE REPAIR, CEMENT INVERT LABORER, CEMENT
FINISHER, CONCRETE SHOVELER, CONVEYOR, FLOOR,
GASOLINE AND ELECTRIC TOOL OPERATOR, GUNITE, GROUT
OPERATOR, WELDER, HEADING DINKY PERSON, INSIDE LOCK
TENDER, PEA GRAVEL OPERATOR, PUMP, OUTSIDE LOCK
TENDER, SCAFFOLD, TOP SIGNAL PERSON, SWITCH PERSON,
TRACK, TUGGER, UTILITY PERSON, VIBRATOR, WINCH
OPERATOR, PIPE JACKING, WAGON DRILL AND AIR TRACK
OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.).
SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF
EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS
INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO,
SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS,
TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS,
SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND
STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA
2: REMAINING COUNTIES).....\$ 28.00 17.45

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 4-
TUNNEL, SHAFT, AND CAISSON MUCKER, BRACER, LINER
PLATE, LONG HAUL DINKY DRIVER AND WELL POINT.
SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF
EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS
INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO,
SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS,
TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS,
SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND
STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA
2: REMAINING COUNTIES).....\$ 29.57 16.93

LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 5-
TUNNEL, SHAFT AND CAISSON MINER, DRILL RUNNER, KEY
BOARD OPERATOR, POWER KNIFE OPERATOR, REINFORCED
STEEL OR MESH (E.G. WIRE MESH, STELL MATS, DOWEL
BARS, ETC.). SCOPE OF WORK: TUNNEL, SHAFT, AND
CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL
OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT
LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER,
SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE,

CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA 2: REMAINING COUNTIES).....\$ 25.76	16.93
LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 6- DYNAMITE AND POWDER. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA 2: REMAINING COUNTIES).....\$ 26.07	16.93
LABORERS - TUNNEL, SHAFT AND CAISSON: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: TUNNEL, SHAFT, AND CAISSON WORK OF EVERY TYPE AND DESCRIPTION AND ALL OPERATIONS INCIDENTAL THERETO, INCLUDING, BUT NOT LIMITED TO, SHAFTS AND TUNNELS FOR SEWERS , WATER, SUBWAYS, TRANSPORTATION, DIVERSION, SEWERAGE, CAVERNS, SHELTERS, AQUAFERS, RESERVOIRS, MISSILE SILOS AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION.(AREA 2: REMAINING COUNTIES).....\$ 25.57	16.93

LABO0334-001 09/01/2025

	Rates	Fringes
LABORERS - OPEN CUT: GROUP 1- CONSTRUCTION LABORER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 29.98		22.75
LABORERS - OPEN CUT: GROUP 2- MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE		

EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES).....\$ 31.98

LABORERS - OPEN CUT: GROUP 3- AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 28.14

LABORERS - OPEN CUT: GROUP 4- TRENCH OR EXCAVATING GRADE PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES

22.75

22.75

THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 23.71

16.72

LABORERS - OPEN CUT: GROUP 5- PIE LAYER (INCLUDING CROCK, METAL PIPE, MULTI-PLATE OR OTHER CONDUITS). SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 24.17

16.72

LABORERS - OPEN CUT: GROUP 6- GROUTING MAN, AUDIO-VISUAL TELEVISION OPERATIONS AND ALL OTHER OPERATIONS IN CONNECTION WITH CLOSED CIRCUIT TELEVISION INSPECTION, PIPE CLEANING AND PIPE RELINING WORK AND THE INSTALLATION AND REPAIR OF WATER SERVICE PIPE AND APPURTENANCES. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL

BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.

(ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 22.00

16.72

LABORERS - OPEN CUT: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.

(ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES)\$ 17.84

16.72

LABORERS - OPEN CUT: GROUP 1- CONSTRUCTION LABORER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION

AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.)); MONROE AND WASHTENAW COUNTIES).....\$ 32.10

LABORERS - OPEN CUT: GROUP 2- MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.)); MONROE AND WASHTENAW COUNTIES).....\$ 34.10

LABORERS - OPEN CUT: GROUP 3- AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL,

17.45

17.45

COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.

(ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.)); MONROE AND WASHTENAW COUNTIES).....\$ 30.10

LABORERS - OPEN CUT: GROUP 4- TRENCH OR EXCAVATING GRADE PERSON. CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.

(ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.)); MONROE AND WASHTENAW COUNTIES).....\$ 25.10

LABORERS - OPEN CUT: GROUP 5- PIE LAYER (INCLUDING CROCK, METAL PIPE, MULTI-PLATE OR OTHER CONDUITS). CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES

17.45

16.72

AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.))); MONROE AND WASHTENAW COUNTIES).....\$ 25.25

16.72

LABORERS - OPEN CUT: GROUP 6- GROUTING MAN, AUDIO-VISUAL TELEVISION OPERATIONS AND ALL OTHER OPERATIONS IN CONNECTION WITH CLOSED CIRCUIT TELEVISION INSPECTION, PIPE CLEANING AND PIPE RELINING WORK AND THE INSTALLATION AND REPAIR OF WATER SERVICE PIPE AND APPURTENANCES. CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.))); MONROE AND WASHTENAW COUNTIES).....\$ 22.55

16.72

LABORERS - OPEN CUT: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING

SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 2 - LIVINGSTON COUNTY (EAST OF M-151 (OAK GROVE RD.)); MONROE AND WASHTENAW COUNTIES).....\$ 22.11

16.72

LABORERS - OPEN CUT: GROUP 1- CONSTRUCTION LABORER.

SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES)\$ 30.29

17.45

LABORERS - OPEN CUT: GROUP 2- MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL,

COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); JACKSON, LAPEER AND LENAWEЕ COUNTIES; LIVINGSTON COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES).....\$ 32.29

LABORERS - OPEN CUT: GROUP 3- AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND

17.45

INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES).....\$ 28.29 17.45

LABORERS - OPEN CUT: GROUP 4- TRENCH OR EXCAVATING GRADE PERSON. CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND IINGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES).....\$ 23.30 16.72

LABORERS - OPEN CUT: GROUP 5- PIE LAYER (INCLUDING CROCK, METAL PIPE, MULTI-PLATE OR OTHER CONDUITS). CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY

WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.
(ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND
INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND);
JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON
COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST.
CLAIR AND SHIAWASSEE COUNTIES).....\$ 23.44 16.72

LABORERS - OPEN CUT: GROUP 6- GROUTING MAN,
AUDIO-VISUAL TELEVISION OPERATIONS AND ALL OTHER
OPERATIONS IN CONNECTION WITH CLOSED CIRCUIT
TELEVISION INSPECTION, PIPE CLEANING AND PIPE
RELINING WORK AND THE INSTALLATION AND REPAIR OF
WATER SERVICE PIPE AND APPURTENANCES. SCOPE OF
WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED
TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH
INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL
BUILDING SITE EXCAVATION AND PREPARATION, LAND
BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND
UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS,
UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION,
FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO
INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING,
CONDUITS, STEEL SHEETING FOR UNDERGROUND
CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND
GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER
PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE
CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS,
SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL
WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT
INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS,
ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY
WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION
AND PARKING LOTS OR STEEL ERECTION WORK AND
EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING
INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND
FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING.
OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY
WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK.
(ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND
INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND);
JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON
COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST.
CLAIR AND SHIAWASSEE COUNTIES).....\$ 20.74 16.72

LABORERS - OPEN CUT: GROUP 7- RESTORATION LABORER,
SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND
TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY
SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER
BOXES, FLAGSTONES, ETC. SCOPE OF WORK: OPEN CUT
CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK
WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING
INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING
SITE EXCAVATION AND PREPARATION, LAND BALANCING,
DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND
APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES
AND IMPROVEMENTS; RETENTION, OXIDATION,
FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO
INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING,
CONDUITS, STEEL SHEETING FOR UNDERGROUND
CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND
GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER
PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE
CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS,
SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL
WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT

INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (CITY OF PORTLAND); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (WEST OF M-151 OAK GROVE RD.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES).....\$ 22.23 16.72

LABORERS - OPEN CUT: GROUP 1- CONSTRUCTION LABORER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 28.72 18.45

LABORERS - OPEN CUT: GROUP 2- MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES,

GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 30.72

18.45

LABORERS - OPEN CUT: GROUP 3- AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS,

FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 26.72 18.45

LABORERS - OPEN CUT: GROUP 4- TRENCH OR EXCAVATING GRADE PERSON. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 22.33 16.72

LABORERS - OPEN CUT: GROUP 5- PIE LAYER (INCLUDING CROCK, METAL PIPE, MULTI-PLATE OR OTHER CONDUITS). SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND

IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKOGON, NEWAYGO, OCEANA, OGEAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOCOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 22.45

16.72

LABORERS - OPEN CUT: GROUP 6- GROUTING MAN, AUDIO-VIDUAL TELEVISION OPERATIONS AND ALL OTHER OPERATIONS IN CONNECTION WITH CLOSED CIRCUIT TELEVISION INSPECTION, PIPE CLEANING AND PIPE RELINING WORK AND THE INSTALLATION AND REPAIR OF WATER SERVICE PIPE AND APPURTENANCES. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC,

BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 19.67 16.72

LABORERS - OPEN CUT: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT AND HURON COUNTIES; IONIA COUNTY (EXCEPT THE CITY OF PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....\$ 22.30 16.72

LABORERS - OPEN CUT: GROUP 1- CONSTRUCTION LABORER. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT

NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 29.98

22.75

LABORERS - OPEN CUT: GROUP 2- MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER. MORTAR AND MATERIAL MIXER, CONCRETE FORM PERSON, SIGNAL PERSON, WELL POINT PERSON, MANHOLE, HEADWALL AND CATCH BASIN BUILDER, HEADWALL, SEAWALL, BREAKWALL AND DOCK BUILDER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 30.09

19.45

LABORERS - OPEN CUT: GROUP 3- AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING

AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON. AIR, GASOLINE AND ELECTRIC TOOL OPERATOR, VIBRATOR OPERATOR, DRILLER, PUMP PERSON, TAR KETTLE OPERATOR, BRACER, RODDER, REINFORCED STEEL OR MESH PERSON (E.G., WIRE MESH, STEEL MATS, DOWEL BARS, ETC.), WELDER, PIPE JACKING AND BORING PERSON, WAGON DRILL AND AIR TRACK OPERATOR AND CONCRETE SAW OPERATOR (UNDER 40 H.P.), WINDLASS AND TUGGER PERSON AND DIRECTIONAL BORING PERSON SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 26.09

19.45

LABORERS - OPEN CUT: GROUP 4- TRENCH OR EXCAVATING GRADE PERSON. CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING

INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 22.56

16.72

LABORERS - OPEN CUT: GROUP 5- PIE LAYER (INCLUDING CROCK, METAL PIPE, MULTI-PLATE OR OTHER CONDUITS). CONSTRUCTION LABORER SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 22.34

16.72

LABORERS - OPEN CUT: GROUP 6- GROUTING MAN, AUDIO-VIDUAL TELEVISION OPERATIONS AND ALL OTHER OPERATIONS IN CONNECTION WITH CLOSED CIRCUIT TELEVISION INSPECTION, PIPE CLEANING AND PIPE RELINING WORK AND THE INSTALLATION AND REPAIR OF WATER SERVICE PIPE AND APPURTENANCES. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS,

ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 19.99 16.72

LABORERS - OPEN CUT: GROUP 7- RESTORATION LABORER, SEEDING, SODDING, PLANTING, CUTTING, MULCHING AND TOP SOIL GRADING; AND THE RESTORATION OF PROPERTY SUCH AS REPLACING MAILBOXES, WOOD CHIPS, PLANTER BOXES, FLAGSTONES, ETC. SCOPE OF WORK: OPEN CUT CONSTRUCTION WORK SHALL BE CONSTRUED TO MEAN WORK WHICH REQUIRES THE EXCAVATION OF EARTH INCLUDING INDUSTRIAL, COMMERCIAL AND RESIDENTIAL BUILDING SITE EXCAVATION AND PREPARATION, LAND BALANCING, DEMOLITION AND REMOVAL OF CONCRETE AND UNDERGROUND APPURTENANCES, GRADING, PAVING, SEWERS, UTILITIES AND IMPROVEMENTS; RETENTION, OXIDATION, FLOCCULATION AND IRRIGATION FACILITIES, AND ALSO INCLUDING BUT NOT LIMITED TO UNDERGROUND PIPING, CONDUITS, STEEL SHEETING FOR UNDERGROUND CONSTRUCTION, AND ALL WORK INCIDENTAL THERETO, AND GENERAL EXCAVATION. FOR ALL AREAS EXCEPT THE UPPER PENINSULA, OPEN CUT CONSTRUCTION WORK SHALL ALSO BE CONSTRUED TO MEAN WATERFRONT WORK, PIERS, DOCKS, SEAWALLS, BREAKWALLS, MARINAS AND ALL INCIDENTAL WORK. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS, OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION WORK AND EXCAVATION FOR THE BUILDING ITSELF AND BACK FILLING INSIDE OF AND WITHIN 5 FT. OF THE BUILDING AND FOUNDATIONS, FOOTINGS AND PIERS FOR THE BUILDING. OPEN CUT CONSTRUCTION WORK SHALL NOT INCLUDE ANY WORK COVERED UNDER TUNNEL, SHAFT AND CAISSON WORK. (ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES).....\$ 22.45 16.72

LAB00465-001 06/01/2025

	Rates	Fringes
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 6- LINE-FORM SETTER FOR CURB OR PAVEMENT; ASPHALT SCREED CHECKER/SCREW MAN ON ASPHALT PAVING MACHINES. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES)....\$ 34.51	34.51	13.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 5- PIPE LAYERS, OXY-GUN. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES).....\$ 34.08	34.08	13.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 4- ASPHALT RAKER. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES).....\$ 34.46	13.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 3- TUNNEL MINER (HIGHWAY WORK ONLY); FINISHERS TENDERS; GUARD RAIL BUILDERS; HIGHWAY AND MEDIAN BARRIER INSTALLER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S (INCLUDING SOUND, RETAINING AND CRASH BARRIERS); FENCE ERECTOR; BOTTOM PERSON; POWEDER PERSON; WAGON DRILL AND AIR TRACK OPERATOR; DIAMOND AND CORE DRILLS; GRADE CHECKER; CERTIFIED WELDERS; CURB AND SIDE RAIL SETTER'S TENDER. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES)....\$ 34.02	13.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 2- MIXER OPERATOR (LESS THAN 5 SACKS); AIR OR ELECTRIC TOOL OPERATOR (JACKHAMMER, ETC.); SPREADER; BOXPERSON (ASPHALT, STONE, GRAVEL); CONCRETE PADDLER; POWER CHAIN SAW OPERATOR; PAVING BATCH TRUCK DUMPER; TUNNEL MUCKER (HIGHWAY WORK ONLY); CONCRETE SAW (UNDER 40 H.P.) AND DRY PACK MACHINE; ROTO-MILL GROUNDS PERSON. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES).....\$ 33.73	13.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 4: GROUP 1- ASPHALT SHOVELER OR LOADER; ASPHALT PLANT MISC.; BURLAP PERSON; YARD PERSON; DUMPER (WAGON, TRUCK, ETC.); JOINT FILLING LABORER; MISCELLANEOUS LABORER; UNSKILLED LABORER; PAVEMENT REINFORCEING; HANDLING AND PLACING (E.G. WIRE MESH, STEEL MATS, DOWEL BARS); MASON'S TENDER OR BRICKLAYER'S TENDER ON MANHOLES; MANHOLE BUILDER; HEADWALLS, ETC.; WATERPROOFING (OTHER THAN BUILDINGS), SEAL COATING AND SLURRY MIX, SHORING, UNDERPINNING; PRESSURE GROUTING; BRIDGE PIN AND HANGER REMOVAL; MATERIAL RECYCLING LABORER; HORIZONTAL PAVER LABORER (BRICK, CONCRETE, CLAY, STONE, AND ASPHALT); GROUND STABILIZATION AND MODIFICATION LABORER; GROUTING; WATERBLASTING; TOP PERSON; RAILROAD TRACK AND TRESTLE LABORER; CARPENTERS' TENDER; GUARD RAIL BUILDERS' TENDER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S TENDER; ASPHALT RAKER TENDER; SIGN INSTALLER; REMOTE CONTROL OPERATED EQUIPMENT. (AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON, AND SCHOOL CRAFT COUNTIES).....\$ 33.52	13.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 6- LINE-FORM SETTER FOR CURB OR PAVEMENT; ASPHALT SCREED CHECKER/SCREW MAN ON ASPHALT PAVING MACHINES. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE,	

MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 33.61	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 5- PIPE LAYERS, OXY-GUN. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 33.18	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 4- ASPHALT RAKER. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 33.56	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 3- TUNNEL MINER (HIGHWAY WORK ONLY); FINISHERS TENDERS; GUARD RAIL BUILDERS; HIGHWAY AND MEDIAN BARRIER INSTALLER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S (INCLUDING SOUND, RETAINING AND CRASH BARRIERS); FENCE ERECTOR; BOTTOM PERSON; POWEDER PERSON; WAGON DRILL AND AIR TRACK OPERATOR; DIAMOND AND CORE DRILLS; GRADE CHECKER; CERTIFIED WELDERS; CURB AND SIDE RAIL SETTER'S TENDER. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 33.12	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 2- MIXER OPERATOR (LESS THAN 5 SACKS); AIR OR ELECTRIC TOOL OPERATOR (JACKHAMMER, ETC.); SPREADER; BOXPERSON (ASPHALT, STONE, GRAVEL); CONCRETE PADDLER; POWER CHAIN SAW OPERATOR; PAVING BATCH TRUCK DUMPER; TUNNEL MUCKER (HIGHWAY WORK ONLY); CONCRETE SAW (UNDER 40 H.P.) AND DRY PACK MACHINE; ROTO-MILL GROUNDS PERSON. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 33.83	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 3: GROUP 1- ASPHALT SHOVELER OR LOADER; ASPHALT PLANT MISC.; BURLAP PERSON; YARD PERSON; DUMPER (WAGON, TRUCK, ETC.); JOINT FILLING LABORER; MISCELLANEOUS LABORER; UNSKILLED LABORER; PAVEMENT REINFORCEING; HANDLING AND PLACING (E.G. WIRE MESH, STEEL MATS, DOWEL BARS); MASON'S TENDER OR BRICKLAYER'S TENDER ON MANHOLES; MANHOLE BUILDER; HEADWALLS, ETC.; WATERPROOFING (OTHER THAN BUILDINGS), SEAL COATING AND SLURRY MIX, SHORING,	

UNDERPINNING; PRESSURE GROUTING; BRIDGE PIN AND HANGER REMOVAL; MATERIAL RECYCLING LABORER; HORIZONTAL PAVER LABORER (BRICK, CONCRETE, CLAY, STONE, AND ASPHALT); GROUND STABILIZATION AND MODIFICATION LABORER; GROUTING; WATERBLASTING; TOP PERSON; RAILROAD TRACK AND TRESTLE LABORER; CARPENTERS' TENDER; GUARD RAIL BUILDERS' TENDER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S TENDER; ASPHALT RAKER TENDER; SIGN INSTALLER; REMOTE CONTROL OPERATED EQUIPMENT. (AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PREQUE ISLE, ROSCOMMON, AND WEXFORD COUNTIES).....\$ 32.62 14.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 6- LINE-FORM SETTER FOR CURB OR PAVEMENT; ASPHALT SCREED CHECKER/SCREW MAN ON ASPHALT PAVING MACHINES. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....\$ 34.37 14.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 5- PIPE LAYERS, OXY-GUN. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....\$ 34.03 14.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 4- ASPHALT RAKER. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....\$ 34.16 14.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 3- TUNNEL MINER (HIGHWAY WORK ONLY); FINISHERS TENDERS; GUARD RAIL BUILDERS; HIGHWAY AND MEDIAN BARRIER INSTALLER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S (INCLUDING SOUND, RETAINING AND CRASH BARRIERS); FENCE ERECTOR; BOTTOM PERSON; POWEDER PERSON; WAGON DRILL AND AIR TRACK OPERATOR; DIAMOND AND CORE DRILLS; GRADE CHECKER; CERTIFIED WELDERS; CURB AND SIDE RAIL SETTER'S TENDER. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....\$ 33.81 14.45

LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 2- MIXER OPERATOR (LESS THAN 5 SACKS); AIR OR ELECTRIC TOOL OPERATOR (JACKHAMMER, ETC.); SPREADER; BOXPERSON (ASPHALT, STONE, GRAVEL); CONCRETE PADDLER; POWER CHAIN SAW OPERATOR; PAVING BATCH TRUCK DUMPER; TUNNEL MUCKER

(HIGHWAY WORK ONLY); CONCRETE SAW (UNDER 40 H.P.) AND DRY PACK MACHINE; ROTO-MILL GROUNDS PERSON. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....	\$ 30.03	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 2: GROUP 1- ASPHALT SHOVELER OR LOADER; ASPHALT PLANT MISC.; BURLAP PERSON; YARD PERSON; DUMPER (WAGON, TRUCK, ETC.); JOINT FILLING LABORER; MISCELLANEOUS LABORER; UNSKILLED LABORER; PAVEMENT REINFORCEING; HANDLING AND PLACING (E.G. WIRE MESH, STEEL MATS, DOWEL BARS); MASON'S TENDER OR BRICKLAYER'S TENDER ON MANHOLES; MANHOLE BUILDER; HEADWALLS, ETC.; WATERPROOFING (OTHER THAN BUILDINGS), SEAL COATING AND SLURRY MIX, SHORING, UNDERPINNING; PRESSURE GROUTING; BRIDGE PIN AND HANGER REMOVAL; MATERIAL RECYCLING LABORER; HORIZONTAL PAVER LABORER (BRICK, CONCRETE, CLAY, STONE, AND ASPHALT); GROUND STABILIZATION AND MODIFICATION LABORER; GROUTING; WATERBLASTING; TOP PERSON; RAILROAD TRACK AND TRESTLE LABORER; CARPENTERS' TENDER; GUARD RAIL BUILDERS' TENDER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S TENDER; ASPHALT RAKER TENDER; SIGN INSTALLER; REMOTE CONTROL OPERATED EQUIPMENT. (AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILACK, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, AND VAN BUREN COUNTIES).....	\$ 33.37	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 6- LINE-FORM SETTER FOR CURB OR PAVEMENT; ASPHALT SCREED CHECKER/SCREW MAN ON ASPHALT PAVING MACHINES. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....	\$ 36.41	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 5- PIPE LAYERS, OXY-GUN. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....	\$ 36.11	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 4- ASPHALT RAKER. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....	\$ 35.90	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 3- TUNNEL MINER (HIGHWAY WORK ONLY); FINISHERS TENDERS; GUARD RAIL BUILDERS; HIGHWAY AND MEDIAN BARRIER INSTALLER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S (INCLUDING SOUND, RETAINING AND CRASH BARRIERS); FENCE ERECTOR; BOTTOM PERSON; POWDER PERSON; WAGON DRILL AND AIR TRACK OPERATOR; DIAMOND AND CORE DRILLS; GRADE CHECKER; CERTIFIED WELDERS; CURB AND SIDE RAIL SETTER'S TENDER. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....	\$ 35.82	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 2- MIXER OPERATOR (LESS THAN 5 SACKS); AIR OR ELECTRIC TOOL OPERATOR (JACKHAMMER, ETC.); SPREADER; BOXPERSON (ASPHALT, STONE, GRAVEL); CONCRETE PADDLER; POWER CHAIN SAW		

OPERATOR; PAVING BATCH TRUCK DUMPER; TUNNEL MUCKER (HIGHWAY WORK ONLY); CONCRETE SAW (UNDER 40 H.P.) AND DRY PACK MACHINE; ROTO-MILL GROUNDS PERSON. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....\$ 31.96	14.45
LABORER- HIGHWAY, BRIDGE, AND AIRPORT CONSTRUCTION AREA 1: GROUP 1- ASPHALT SHOVELER OR LOADER; ASPHALT PLANT MISC.; BURLAP PERSON; YARD PERSON; DUMPER (WAGON, TRUCK, ETC.); JOINT FILLING LABORER; MISCELLANEOUS LABORER; UNSKILLED LABORER; PAVEMENT REINFORCEING; HANDLING AND PLACING (E.G. WIRE MESH, STEEL MATS, DOWEL BARS); MASON'S TENDER OR BRICKLAYER'S TENDER ON MANHOLES; MANHOLE BUILDER; HEADWALLS, ETC.; WATERPROOFING (OTHER THAN BUILDINGS), SEAL COATING AND SLURRY MIX, SHORING, UNDERPINNING; PRESSURE GROUTING; BRIDGE PIN AND HANGER REMOVAL; MATERIAL RECYCLING LABORER; HORIZONTAL PAVER LABORER (BRICK, CONCRETE, CLAY, STONE, AND ASPHALT); GROUND STABILIZATION AND MODIFICATION LABORER; GROUTING; WATERBLASTING; TOP PERSON; RAILROAD TRACK AND TRESTLE LABORER; CARPENTERS' TENDER; GUARD RAIL BUILDERS' TENDER; EARTH RETENTION BARRIER AND WALL AND M.S.E. WALL INSTALLER'S TENDER; ASPHALT RAKER TENDER; SIGN INSTALLER; REMOTE CONTROL OPERATED EQUIPMENT. (AREA 1: GENESE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....\$ 35.51	14.45

LAB01076-005 04/01/2025

Rates

Fringes

LABORER: DISTRIBUTION WORK - THE CONSTRUCTION, INSTALLATION, TREATING AND RECONDITIONING OF DISTRIBUTION PIPELINES TRANSPORTING COAL, OIL, GAS OR OTHER SIMILAR MATERIALS, VAPORS OR LIQUIDS, INCLUDING PIPELINES WITHIN PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING THE METER SETTINGS ON RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, PRIVATE AND PUBLIC STRUCTURES. ALL WORK COVERING PUMPING STATIONS AND TANK FARMS NOT COVERED BY THE BUILDING TRADES AGREEMENT. OTHER DISTRIBUTION LINES WITH THE EXCEPTION OF SEWER, WATER AND CABLE TELEVISION ARE INCLUDED. UNDERGROUND DUCT LAYER PAY: \$.40 PER HOUR ABOVE THE BASE PAY RATE. (ZONE 5 - REMAINING COUNTIES IN MICHIGAN).....\$ 22.95	13.45
LABORER: DISTRIBUTION WORK - THE CONSTRUCTION, INSTALLATION, TREATING AND RECONDITIONING OF DISTRIBUTION PIPELINES TRANSPORTING COAL, OIL, GAS OR OTHER SIMILAR MATERIALS, VAPORS OR LIQUIDS, INCLUDING PIPELINES WITHIN PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING THE METER SETTINGS ON RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, PRIVATE AND PUBLIC STRUCTURES. ALL WORK COVERING PUMPING STATIONS AND TANK FARMS NOT COVERED BY THE BUILDING TRADES AGREEMENT. OTHER DISTRIBUTION LINES WITH THE EXCEPTION OF SEWER, WATER AND CABLE TELEVISION ARE INCLUDED. UNDERGROUND DUCT LAYER PAY: \$.40 PER HOUR ABOVE THE BASE PAY RATE. (ZONE 4 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT).....\$ 22.92	13.45

LABORER: DISTRIBUTION WORK - THE CONSTRUCTION, INSTALLATION, TREATING AND RECONDITIONING OF DISTRIBUTION PIPELINES TRANSPORTING COAL, OIL, GAS OR OTHER SIMILAR MATERIALS, VAPORS OR LIQUIDS, INCLUDING PIPELINES WITHIN PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING THE METER SETTINGS ON RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, PRIVATE AND PUBLIC STRUCTURES. ALL WORK COVERING PUMPING STATIONS AND TANK FARMS NOT COVERED BY THE BUILDING TRADES AGREEMENT. OTHER DISTRIBUTION LINES WITH THE EXCEPTION OF SEWER, WATER AND CABLE TELEVISION ARE INCLUDED. UNDERGROUND DUCT LAYER PAY: \$.40 PER HOUR ABOVE THE BASE PAY RATE. (ZONE 3 - BAY, GENESEE, LAPEER, MIDLAND, SAGINAW, SANILAC, SHIAWASSEE AND ST. CLAIR).....\$ 23.55 13.45

LABORER: DISTRIBUTION WORK - THE CONSTRUCTION, INSTALLATION, TREATING AND RECONDITIONING OF DISTRIBUTION PIPELINES TRANSPORTING COAL, OIL, GAS OR OTHER SIMILAR MATERIALS, VAPORS OR LIQUIDS, INCLUDING PIPELINES WITHIN PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING THE METER SETTINGS ON RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, PRIVATE AND PUBLIC STRUCTURES. ALL WORK COVERING PUMPING STATIONS AND TANK FARMS NOT COVERED BY THE BUILDING TRADES AGREEMENT. OTHER DISTRIBUTION LINES WITH THE EXCEPTION OF SEWER, WATER AND CABLE TELEVISION ARE INCLUDED. UNDERGROUND DUCT LAYER PAY: \$.40 PER HOUR ABOVE THE BASE PAY RATE. (ZONE 2 - MONROE AND WASHTENAW).....\$ 24.55 13.45

LABORER: DISTRIBUTION WORK - THE CONSTRUCTION, INSTALLATION, TREATING AND RECONDITIONING OF DISTRIBUTION PIPELINES TRANSPORTING COAL, OIL, GAS OR OTHER SIMILAR MATERIALS, VAPORS OR LIQUIDS, INCLUDING PIPELINES WITHIN PRIVATE PROPERTY BOUNDARIES, UP TO AND INCLUDING THE METER SETTINGS ON RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, PRIVATE AND PUBLIC STRUCTURES. ALL WORK COVERING PUMPING STATIONS AND TANK FARMS NOT COVERED BY THE BUILDING TRADES AGREEMENT. OTHER DISTRIBUTION LINES WITH THE EXCEPTION OF SEWER, WATER AND CABLE TELEVISION ARE INCLUDED. UNDERGROUND DUCT LAYER PAY: \$.40 PER HOUR ABOVE THE BASE PAY RATE. (ZONE 1 - MACOMB, OAKLAND AND WAYNE).....\$ 28.41 13.45

PAIN0022-002 07/01/2008

Rates

Fringes

PAINTER (HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (EAST OF THE EASTERN CITY LIMITS OF HOWELL, NOT INCLUDING THE CITY OF HOWELL, NORTH TO THE GENESEE COUNTY LINE AND SOUTH TO THE WASHTENAW COUNTY LINE); MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES). FOOTNOTES: FOR ALL SPRAY WORK AND JOURNEYMAN RIGGING FOR SPRAY WORK, ALSO BLOWING OFF, \$.80 PER HOUR ADDITIONAL (APPLIES ONLY TO WORKERS DOING RIGGING FOR SPRAY WORK ON OFF THE FLOOR WORK. DOES NOT INCLUDE SETTING UP OR MOVING RIGGING ON FLOOR SURFACES, NOR DOES IT APPLY TO WORKERS ENGAGED IN COVERING UP OR TENDING SPRAY EQUIPMENT. FOR ALL SANDBLASTING AND SPRAY WORK PERFORMED ON HIGHWAY BRIDGES,

OVERPASSES, TANKS OR STEEL, \$0.80 PER HOUR
 ADDITIONAL. FOR ALL BRUSHING, CLEANING AND OTHER
 PREPARATORY WORK (OTHER THAN SPRAYING OR
 STEEPLEJACK WORK) AT SCAFFOLD HEIGHTS OF FIFTY (50)
 FEET FROM THE GROUND OR HIGHER, \$0.50 PER HOUR
 ADDITIONAL. FOR ALL PREPARATORIAL WORK AND PAINTING
 PERFORMED ON OPEN STEEL UNDER FORTY (40) FEET WHEN
 NO SCAFFOLDING IS INVOLVED, \$0.50 PER HOUR
 ADDITIONAL. FOR ALL SWING STAGE WORK-WINDOW JACKS
 AND WINDOW BELTS-EXTERIOR AND INTERIOR, \$0.50 PER
 HOUR ADDITIONAL. FOR ALL SPRAY WORK AND SANDBLASTER
 WORK TO A SCAFFOLD HEIGHT OF FORTY (40) FEET ABOVE
 THE FLOOR LEVEL, \$0.80 PER HOUR ADDITIONAL. FOR ALL
 PREPARATORIAL WORK AND PAINTING ON ALL HIGHWAY
 BRIDGES OR OVERPASSES UP TO FORTY (40) FEET IN
 HEIGHT, \$0.50 PER HOUR ADDITIONAL. FOR ALL
 STEEPLEJACK WORK PERFORMED WHERE THE ELEVATION IS
 FORTY (40) FEET OR MORE, \$1.25 PER HOUR ADDITIONAL..\$ 25.06 14.75

PAIN0312-001 06/01/2018

	Rates	Fringes
PAINTER: SPRAY, SANDBLAST, SIGN PAINTING (EXCLUDES: ALLEGAN COUNTY (TOWNSHIPS OF DORR, FILLMORE, HEATH, HOPKINS, LAKETOWN, LEIGHTON, MANLIUS, MONTEREY, OVERISEL, SALEM, SAUGATUCK AND WAYLAND); INCLUDES: BARRY, BERRIEN, BRANCH, CALHOUN, CASS, HILLSDALE, KALAMAZOO, ST. JOSEPH, VAN BUREN).....\$ 24.94	24.94	13.35
PAINTER: BRUSH AND ROLLER (EXCLUDES: ALLEGAN COUNTY (TOWNSHIPS OF DORR, FILLMORE, HEATH, HOPKINS, LAKETOWN, LEIGHTON, MANLIUS, MONTEREY, OVERISEL, SALEM, SAUGATUCK AND WAYLAND); INCLUDES: BARRY, BERRIEN, BRANCH, CALHOUN, CASS, HILLSDALE, KALAMAZOO, ST. JOSEPH, VAN BUREN).....\$ 23.74	23.74	13.35

PAIN0845-003 05/10/2018

	Rates	Fringes
PAINTER (CLINTON COUNTY; EATON COUNTY (DOES NOT INCLUDE THE TOWNSHIPS OF BELLEVUE AND OLIVET); INGHAM COUNTY; IONIA COUNTY (EAST OF HWY. M 66); LIVINGSTON COUNTY (WEST OF THE EASTERN CITY LIMITS OF HOWELL, INCLUDING THE CITY OF HOWELL, NORTH TO THE GENESEE COUNTY LINE AND SOUTH TO THE WASHTENAW COUNTY LINE); AND SHIAWASSEE COUNTY (TOWNSHIPS OF BENNINGTON, LAINGSBURY AND PERRY)).....\$ 25.49	25.49	13.74

PAIN0845-015 05/10/2018

	Rates	Fringes
PAINTER (MUSKEGON COUNTY; NEWAYGO COUNTY (EXCEPT THE TOWNSHIPS OF BARTON, BIG PRAIRIE, BROOKS, CROTON, ENSLEY, EVERETT, GOODWELL, GRANT, HOME, MONROE, NORWICH AND WILCOX); OCEANA COUNTY; OTTAWA COUNTY (EXCEPT THE TOWNSHIPS OF ALLENDAL, E, BLENDONE, CHESTER, GEORGETOWN, HOLLAND, JAMESTOWN, OLIVE, PARK, POLKTON, PORT SHELDON, TALLMADGE, WRIGHT AND ZEELAND):).....\$ 25.49	25.49	13.74

PAIN0845-018 05/10/2018

	Rates	Fringes
PAINTER (ALLEGAN COUNTY (TOWNSHIPS OF DORR,		

FILLMORE, HEATH, HOPKINS, LAKETOWN, LEIGHTON, MANLIUS, MONTEREY, OVERISEL, SALEM, SAUGATUCK AND WAYLAND); IONIA COUNTY (WEST OF HWY. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (TOWNSHIPS OF BARTON, BIG PRAIRIE, BROOKS, CROTON, ENSLEY, EVERETT, GOODWELL, GRANT, HOME, MONROE, NORWICH AND WILCOX); OSCEOLA COUNTY (SOUTH OF HWY. #10); OTTAWA COUNTY (TOWNSHIPS OF ALLENDAL, BLENDONE, CHESTER, GEORGETOWN, HOLLAND, JAMESTOWN, OLIVE, PARK, POLK.....\$ 25.49 13.74

PAIN1011-003 06/02/2022

	Rates	Fringes
PAINTER (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES) FOOTNOTES: HIGH PAY (BRIDGES, OVERPASSES, WATERTOWER): 30 TO 80 FT.: \$.65 PER HOUR ADDITIONAL. 80 FT. AND OVER: \$1.30 PER HOUR ADDITIONAL.....\$ 24.66		14.99

PAIN1474-002 06/01/2010

	Rates	Fringes
PAINTER (HURON COUNTY; LAPEER COUNTY (EAST OF HWY. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES) FOOTNOTES: LEAD ABATEMENT WORK: \$1.00 PER HOUR ADDITIONAL. WORK WITH ANY HAZARDOUS MATERIAL: \$1.00 PER HOUR ADDITIONAL. SANDBLASTING, STEAM CLEANING AND ACID CLEANING: \$1.00 PER HOUR ADDITIONAL. LADDER WORK AT OR ABOVE 40 FT., SCAFFOLD WORK AT OR ABOVE 40 FT., SWING STAGE, BOATSWAIN CHAIR, WINDOW JACKS AND ALL WORK PERFORMED OVER A FALLING HEIGHT OF 40 FT.: \$1.00 PER HOUR ADDITIONAL. SPRAY GUN WORK, PICK PULLERS AND THOSE HANDLING NEEDLES, BLOWING OFF BY AIR PRESSURE, AND ANY PERSON RIGGING (SETTING UP AND MOVING OFF THE GROUND): \$1.00 PER HOUR ADDITIONAL. STEEPLEJACK, TANKS, GAS HOLDERS, STACKS, FLAG POLES, RADIO TOWERS AND BEACONS, POWER LINE TOWERS, BRIDGES, ETC.: \$1.00 PER HOUR ADDITIONAL, PAID FROM THE GROUND UP.....\$ 23.79		12.02

PAIN1803-003 06/01/2025

	Rates	Fringes
PAINTER: WORK PERFORMED ON WATER, BRIDGES OVER WATER OR MOVING TRAFFIC, RADIO AND POWERLINE TOWERS, ELEVATED TANKS, STEEPLES, SMOKE STACKS OVER 40 FT. OF FALLING HEIGHTS, RECOVERY OF LEAD-BASED PAINTS AND ANY WORK ASSOCIATED WITH INDUSTRIAL PLANTS, EXCEPT MAINTENANCE OF INDUSTRIAL PLANTS. (ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (NORTH OF HWY. #10); OSCODA, OTSEGO, PREQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES).....\$ 29.23		19.11
PAINTER: ALL OTHER WORK, INCLUDING MAINTENANCE OF INDUSTRIAL PLANT. (ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT,		

IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (NORTH OF HWY. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES) FOOTNOTES: SPRAY PAINTING, SANDBLASTING, BLOWDOWN ASSOCIATED WITH SPRAYING AND BLASTING, WATER BLASTING AND WORK INVOLVING A SWING STAGE, BOATSWAIN CHAIR OR SPIDER: \$1.00 PER HOUR ADDITIONAL. ALL WORK PERFORMED INSIDE TANKS, VESSELS, TANK TRAILERS, RAILROAD CARS, SEWERS, SMOKE STACKS, BOILERS OR OTHER SPACES HAVING LIMITED EGRESS NOT INCLUDING BUILDINGS, OPENTOP TANKS, PITS, ETC.: \$1.25 PER HOUR
 ADDITIONAL.....\$ 29.35 19.05

PLAS0514-001 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER: ZONE 2 (ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN, AND WEXFORD COUNTIES).....	\$ 31.50	18.51
CEMENT MASON/CONCRETE FINISHER: ZONE 1 (GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES).....	\$ 33.00	18.51

PLUM0190-003 05/01/2015

	Rates	Fringes
PLUMBER/PIPEFITTER - GAS DISTRIBUTION PIPELINE: WELDING IN CONJUNCTION WITH GAS DISTRIBUTION PIPELINE WORK	\$ 33.03	20.19
PLUMBER/PIPEFITTER - GAS DISTRIBUTION PIPELINE: ALL OTHER WORK.....	\$ 24.19	12.28

SUMI2002-001 08/13/1986

	Rates	Fringes
PAVEMENT MARKING MACHINE: GROUP 2 Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector. ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 30.03	14.45
PAVEMENT MARKING MACHINE: GROUP 2 Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector. ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND		

WAYNE.....	\$ 31.96	14.45
PAVEMENT MARKING MACHINE: GROUP 1 Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers. ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES).....	\$ 33.37	14.45
PAVEMENT MARKING MACHINE: GROUP 1 Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers. ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES.....	\$ 35.51	14.45
LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors. (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 25.03	14.45
LINE PROTECTOR Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors. (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 26.63	14.45
FLAG PERSON.....	\$ 10.10	0.00

TEAM0007-004 06/01/2025

	Rates	Fringes
TRUCK DRIVER TRUCKS, 8 CU. YDS. AND OVER (AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW, AND WAYNE COUNTIES). FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.50	0.75
TRUCK DRIVER TRUCKS, 8 CU. YDS. AND OVER (AREA 1: REMAINING COUNTIES) FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.40	0.75
TRUCK DRIVER TRUCKS UNDER 8 CU. YDS. (AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW, AND WAYNE COUNTIES) FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.50	0.75
TRUCK DRIVER TRUCKS UNDER 8 CU. YDS. (AREA 1: REMAINING COUNTIES) FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.40	0.75
TRUCK DRIVER EUCLIDS, DOUBLE BOTTOMS AND LOWBOYS (AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW, AND WAYNE COUNTIES) FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.65	0.75
TRUCK DRIVER EUCLIDS, DOUBLE BOTTOMS AND LOWBOYS (AREA 1: REMAINING COUNTIES) FOOTNOTE: +A +B TO FRINGE BENEFITS. A. \$470.70 PER WEEK B. \$68.70 DAILY.....	\$ 33.55	0.75

TEAM0247-004 04/01/2013

	Rates	Fringes
SIGN INSTALLER GROUP 2: PERFORMS ALL MISCELLANEOUS LABOR, USES ALL HAND AND POWER TOOLS, AND OPERATES ALL OTHER EQUIPMENT, MOBILE OR OTHERWISE, REQUIRED FOR THE INSTALLATION OF HIGHWAY AND STREET SIGNS. (AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW, AND WAYNE COUNTIES) FOOTNOTE: A. \$132.70 PER WEEK, PLUS \$17.80 PER DAY.....	\$ 25.05	11.84
SIGN INSTALLER GROUP 2: PERFORMS ALL MISCELLANEOUS LABOR, USES ALL HAND AND POWER TOOLS, AND OPERATES ALL OTHER EQUIPMENT, MOBILE OR OTHERWISE, REQUIRED FOR THE INSTALLATION OF HIGHWAY AND STREET SIGNS. (AREA 1: REMAINING COUNTIES) FOOTNOTE: A. \$132.70 PER WEEK, PLUS \$17.80 PER DAY.....	\$ 25.27	11.84
SIGN INSTALLER GROUP 1: PERFORMS ALL NECESSARY LABOR AND USES ALL TOOLS REQUIRED TO CONSTRUCT AND SET CONCRETE FORMS REQUIRED IN THE INSTALLATION OF HIGHWAY AND STREET SIGNS. (AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW, AND WAYNE COUNTIES) FOOTNOTE: A. \$132.70 PER WEEK, PLUS \$17.80 PER DAY.....	\$ 22.03	11.83
SIGN INSTALLER GROUP 1: PERFORMS ALL NECESSARY LABOR AND USES ALL TOOLS REQUIRED TO CONSTRUCT AND SET CONCRETE FORMS REQUIRED IN THE INSTALLATION OF HIGHWAY AND STREET SIGNS. (AREA 1: REMAINING COUNTIES) FOOTNOTE: A. \$132.70 PER WEEK, PLUS \$17.80 PER DAY.....	\$ 21.78	11.83

TEAM0247-010 04/01/2018

	Rates	Fringes
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 3- TRUCK DRIVER ON LOW BOY, EUCLID AND DOUBLE BOTTOM. SCOPE OF WORK: EXCAVATION, SITE PREPARATION, LAND BALANCING, GRADING, SEWERS, UTILITIES AND IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION, FLOCCULATION FACILITIES, CONDUITS, GENERAL EXCAVATION AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION. PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY. (AREA 2 GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW, AND WAYNE COUNTIES).....	\$ 24.45	19.04
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 3- TRUCK DRIVER ON LOW BOY, EUCLID AND DOUBLE BOTTOM. SCOPE OF WORK: EXCAVATION, SITE PREPARATION, LAND BALANCING, GRADING, SEWERS, UTILITIES AND IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION, FLOCCULATION FACILITIES, CONDUITS, GENERAL EXCAVATION AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE		

CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION.
PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH
OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS
DAY. (AREA 1: LAPEER AND SHIAWASSEE COUNTIES).....\$ 24.12 19.04
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 2-
TRUCK DRIVER ON DUMP TRUCKS OF 8 CUBIC YARDS
CAPACITY OR OVER, POLE TRAILERS, SEMIS AND FUEL
TRUCKS. SCOPE OF WORK: EXCAATION, SITE PREPARATION,
LAND BALANCING, GRADING, SEWERS, UTILITIES AND
IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO
TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION,
FLOCCULATION FACILITIES, CONDUITS, GENERAL
EXCAVATION AND STEEL SHEETING FOR UNDERGROUND
CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL
NOT INCLUDE ANY STRUCTURAL MODIFICATIONS,
ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR
HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE
CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION.
PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH
OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS
DAY. (AREA 2 GENESEE, MACOMB, MONROE, OAKLAND, ST.
CLAIR, WASHTENAW, AND WAYNE COUNTIES).....\$ 24.26 19.04
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 2-
TRUCK DRIVER ON DUMP TRUCKS OF 8 CUBIC YARDS
CAPACITY OR OVER, POLE TRAILERS, SEMIS AND FUEL
TRUCKS. SCOPE OF WORK: EXCAATION, SITE PREPARATION,
LAND BALANCING, GRADING, SEWERS, UTILITIES AND
IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO
TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION,
FLOCCULATION FACILITIES, CONDUITS, GENERAL
EXCAVATION AND STEEL SHEETING FOR UNDERGROUND
CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL
NOT INCLUDE ANY STRUCTURAL MODIFICATIONS,
ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR
HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE
CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION.
PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH
OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS
DAY. (AREA 1: LAPEER AND SHIAWASSEE COUNTIES).....\$ 23.91 19.04
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 1-
TRUCK DRIVER ON ALL TRUCKS (EXCEPT DUMP TRUCKS OF 8
CUBIC YARDS CAPACITY OR OVER, POLE TRAILERS, SEMIS,
LOW BOYS, EUCLID, DOUBLE BOTTOM AND FUEL TRUCKS).
SCOPE OF WORK: EXCAATION, SITE PREPARATION, LAND
BALANCING, GRADING, SEWERS, UTILITIES AND
IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO
TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION,
FLOCCULATION FACILITIES, CONDUITS, GENERAL
EXCAVATION AND STEEL SHEETING FOR UNDERGROUND
CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL
NOT INCLUDE ANY STRUCTURAL MODIFICATIONS,
ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR
HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE
CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION.
PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH
OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS
DAY. (AREA 2 GENESEE, MACOMB, MONROE, OAKLAND, ST.
CLAIR, WASHTENAW, AND WAYNE COUNTIES).....\$ 24.12 19.04
TRUCK DRIVER, UNDERGROUND CONSTRUCTION: GROUP 1-
TRUCK DRIVER ON ALL TRUCKS (EXCEPT DUMP TRUCKS OF 8
CUBIC YARDS CAPACITY OR OVER, POLE TRAILERS, SEMIS,
LOW BOYS, EUCLID, DOUBLE BOTTOM AND FUEL TRUCKS).
SCOPE OF WORK: EXCAATION, SITE PREPARATION, LAND

BALANCING, GRADING, SEWERS, UTILITIES AND IMPROVEMENTS; ALSO INCLUDING BUT NOT LIMITED TO TUNNELS, UNDERGROUND PIPING, RETENTION, OXIDATION, FLOCCULATION FACILITIES, CONDUITS, GENERAL EXCAVATION AND STEEL SHEETING FOR UNDERGROUND CONSTRUCTION. UNDERGROUND CONSTRUCTION WORK SHALL NOT INCLUDE ANY STRUCTURAL MODIFICATIONS, ALTERATIONS, ADDITIONS AND REPAIRS TO BUILDINGS OR HIGHWAY WORK, INCLUDING ROADS, STREETS, BRIDGE CONSTRUCTION AND PARKING LOTS OR STEEL ERECTION. PAID HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY. (AREA 1: LAPEER AND SHIAWASSEE COUNTIES).....\$ 23.82

19.04

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular

rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than `◆SU◆`, `◆UAVG◆`, `◆SA◆`, or `◆SC◆` denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The `◆SU◆` identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

`◆SU◆` wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The **SA** identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the **SA** identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210.

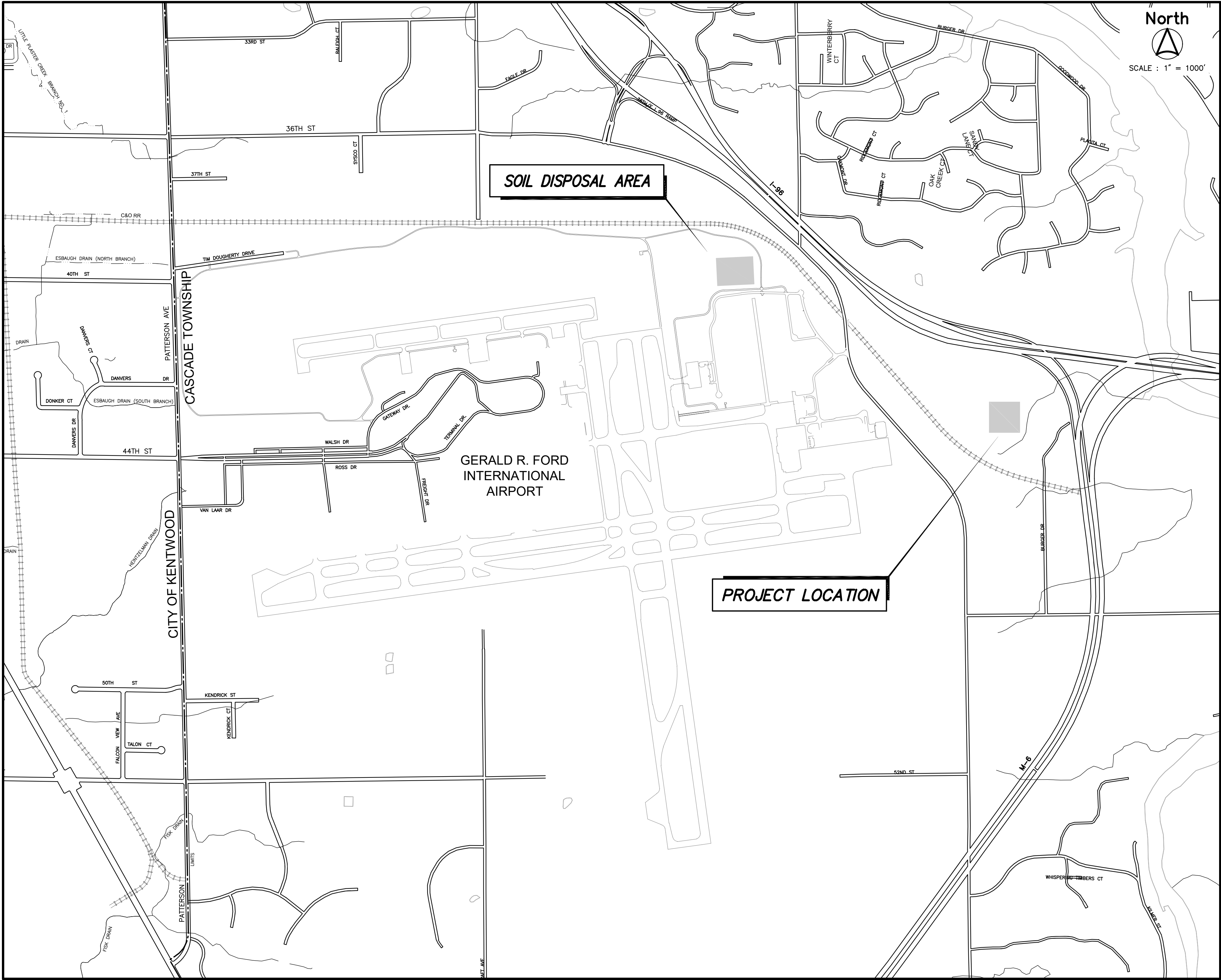
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END OF GENERAL DECISION

"

GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY
KENT COUNTY, MICHIGAN

C-449 NATURAL TREATMENT SYSTEM MAINTENANCE PHASE 2
CELLS 1A, 1B, 1C, AND 1D



GENERAL NOTES

1. THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATION REFERENCED FOR EACH ITEM OF WORK. IF NO ITEM OF WORK IS REFERENCED, THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS SHALL APPLY.
2. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE THE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.
3. TRAFFIC SIGNS AND MARKINGS OUTSIDE OF THE AIR OPERATIONS AREAS INCLUDED WITH THIS PROJECT SHALL BE IN DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

UTILITIES

SANITARY SEWER
GERALD R. FORD INT'L AIRPORT
5500 44TH ST SE
GRAND RAPIDS, MICHIGAN 49512
ATTN: CLINT NEMETH
PHONE : (616) 233-6000

WATER
CITY OF GRAND RAPIDS
1900 OAK INDUSTRIAL DR NE
GRAND RAPIDS, MI 49505
ATTN: JAMES PARR
PHONE : (616) 456-4059

STORM SEWER
GERALD R. FORD INT'L AIRPORT
5500 44TH ST SE
GRAND RAPIDS, MICHIGAN 49512
ATTN: CLINT NEMETH
PHONE : (616) 233-6000

OTHER COMMUNICATION
FAA
ATTN: PETE WILKE
PHONE : (616) 464-5371

GAS
DTE ENERGY
444 WEALTHY STREET
GRAND RAPIDS, MI 49503
ATTN: ADAM SCRIPPS
PHONE : (616) 632-2631

ELECTRIC-DISTRIBUTION
CONSUMERS ENERGY
4000 CLAY AVENUE SW
GRAND RAPIDS, MI 49508
ATTN: ANDREW ALDRICH
PHONE : (616) 246-7509

COMMUNICATION
AT&T
955 36TH STREET SE, ROOM 5
GRAND RAPIDS, MI 49508
ATTN: CORY VANTIL
PHONE : (616) 246-7573

CABLE TELEVISION
COMCAST CABLE
3500 PATTERSON AVE
GRAND RAPIDS, MICHIGAN 49512
ATTN: JIM ZAWACKI
PHONE : (616) 575-0501



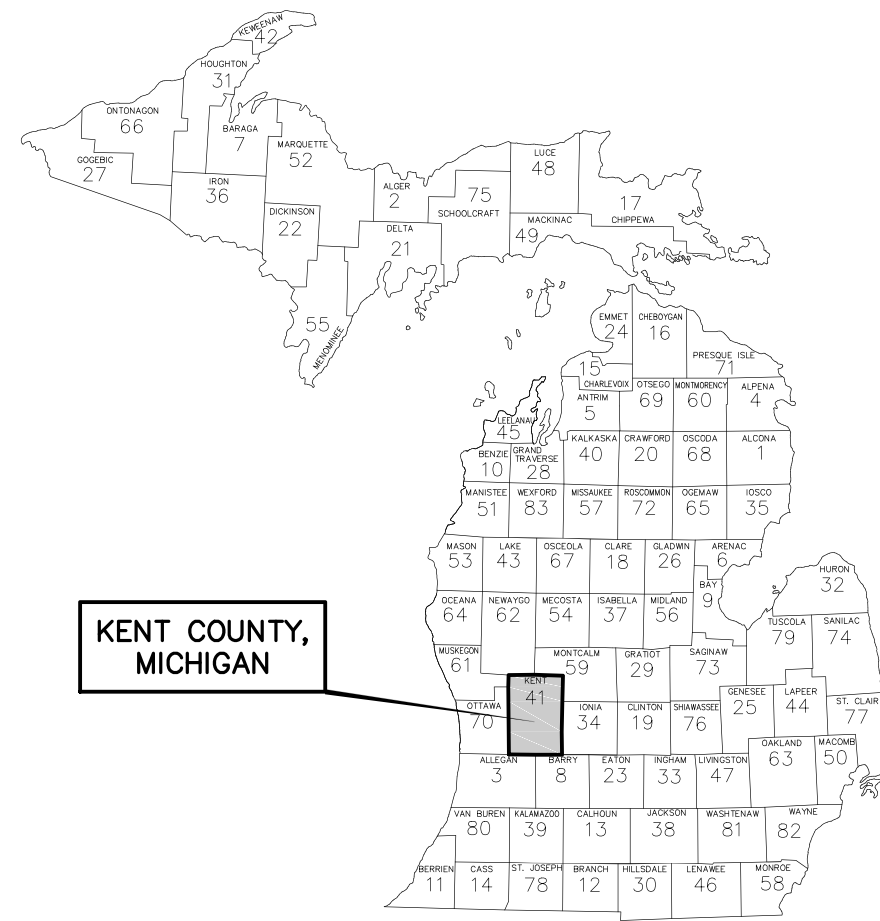
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM : STATE PLANE GRID
ZONE : MICHIGAN SOUTH 2113
ELLIPSOID : GRS 80
HORIZONTAL DATUM : NAD 83 (2011)
VERTICAL DATUM : NAVD 88 (LOCAL SITE BENCHMARK)
GEOID : GEOID 16
UNITS : INTERNATIONAL FEET

PROJECT COMBINED SCALE FACTOR (PCSF) = 0.9998768967
GROUND DISTANCE = GRID DISTANCE/PCSF

STATE LOCATION MAP



SHEET INDEX

SHEET No.	DESCRIPTION
G-000	COVER SHEET
G-001	CONSTRUCTION SAFETY PHASING PLAN
G-002	CONSTRUCTION NOTES
C-000	EXISTING SITE CONDITIONS
C-001	CELLS 1A, 1B, 1C & 1D GENERAL ABBREVIATIONS
C-002	CELLS 1A, 1B, 1C & 1D HYDRAULIC PROFILE
C-100	OVERALL SITE PLAN
C-101	CELLS 1A & 1B DEMOLITION PLAN
C-102	CELLS 1C & 1D DEMOLITION PLAN
C-103	CELLS 1A & 1B GRADING PLAN
C-104	CELLS 1C & 1D GRADING PLAN
C-105	CELLS 1A & 1B PIPING PLAN
C-106	CELLS 1C & 1D PIPING PLAN
C-201	CELLS 1A & 1B PIPING PROFILES
C-202	CELLS 1C & 1D PIPING PROFILES
C-203	CELLS 1A & 1B PROFILE BASELINES A & B
C-204	CELLS 1C & 1D PROFILE BASELINES C & D
C-210	SITE PLAN
C-211	SOIL DISPOSAL AREA GRADING PLAN
C-501	CELLS 1A, 1B, 1C, & 1D DETAILS & TYPICAL SECTION
C-502	SITE DETAILS



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PROJECT NO.
2250383

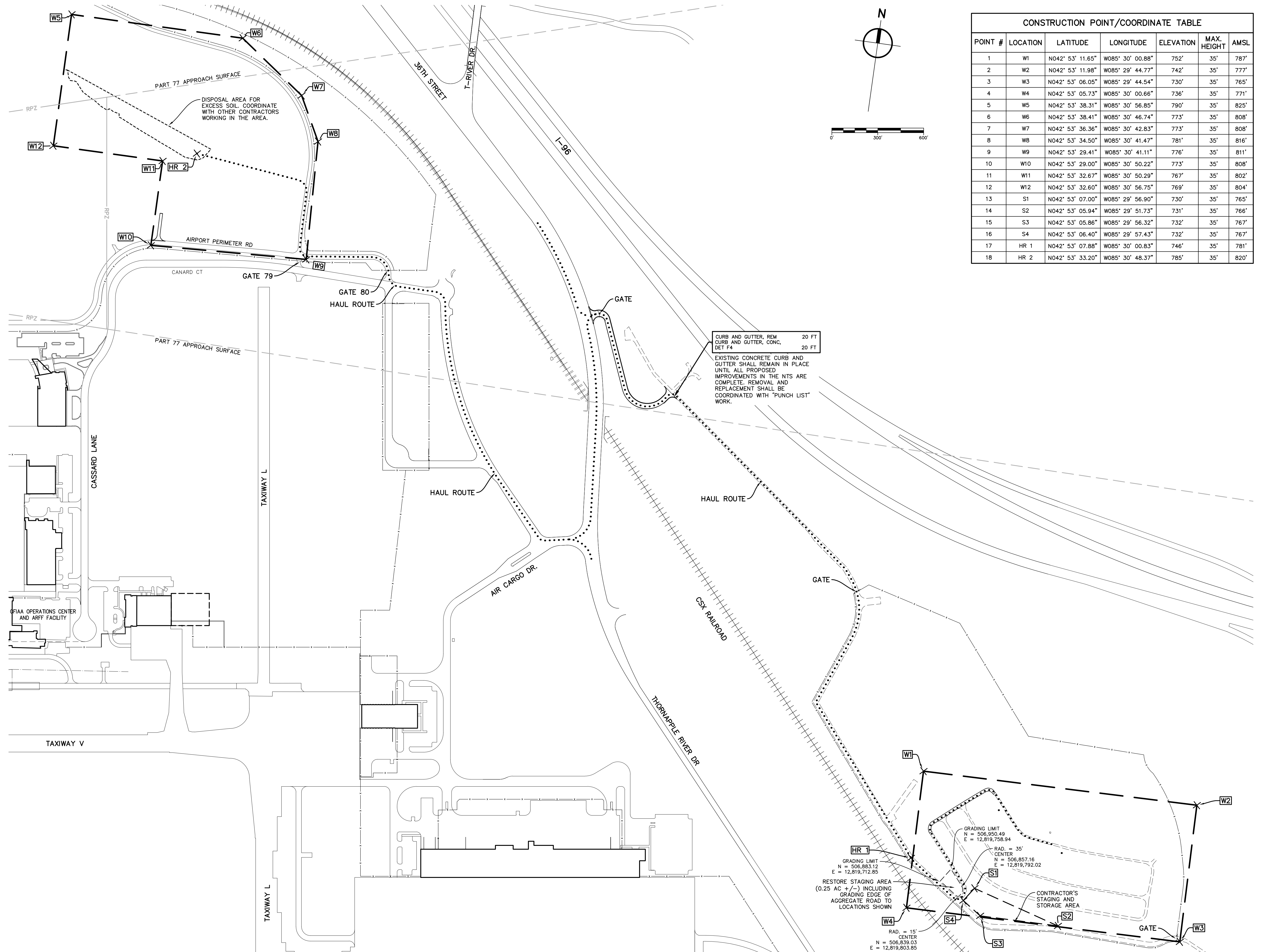
SHEET NO.

G-000

GENERAL

1. FOR ALL PHASES HEREIN, CONTRACTOR'S EQUIPMENT MUST ENTER THE WORK AREA THROUGH THE HAUL ROUTE SHOWN.
2. CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN LOW PROFILE BARRICADES OR OTHER TRAFFIC CONTROL DEVICES AT THE LOCATIONS SHOWN IMMEDIATELY UPON STARTING WORK.
3. MAXIMUM EQUIPMENT HEIGHT IS 35 FEET.
4. THE MAXIMUM NUMBER OF LOW PROFILE BARRICADES ANTICIPATED TO BE IN USE AT ANY ONE TIME IS ZERO (0). ALL COSTS FOR BARRICADES SHALL BE INCLUDED INTO THE SAFETY AND SECURITY. (PLACE HOLDER NOTE IN CASE BARRICADES ARE NEEDED ON PERIMETER ROADS.)
5. COORDINATE LOCATION OF AGGREGATE STOCKPILES WITH GFIAA OPERATIONS AND ENVIRONMENTAL STAFF. NO STOCKPILES MAY BE STARTED UNTIL HEAVY METAL CONTAINMENT CONTROL PLANS HAVE BEEN ACCEPTED BY GFIAA STAFF.
6. WORK IN THE NATURAL TREATMENT SYSTEM (NTS) IS OUTSIDE THE AIRPORT SECURITY FENCE. THE DISPOSAL AREA FOR EXISTING NTS MATERIAL IS LOCATED INSIDE THE AIRPORT SECURITY FENCE.
7. REHABILITATION OF THE NTS WILL OCCUR INSIDE THE FENCE SURROUNDING THE NTS. THE GATE MAY BE OPEN WHEN CONSTRUCTION TRAFFIC IS ACTIVELY USING THE GATE. (MINIMUM SIX VEHICLES PASSING THROUGH THE GATE PER HOUR.) THE GATE MUST BE CLOSED AT ALL OTHER TIMES AND AT THE END OF EACH DAY. SECURITY OF THE NTS WILL BE THE CONTRACTORS RESPONSIBILITY WHENEVER THE GATE IS OPEN FOR CONSTRUCTION OF THIS PROJECT.
8. THIS PROJECT INCLUDES REHABILITATION OF NTS CELLS 1A, 1B, 1C, AND 1D, INCLUDING REMOVAL OF EXISTING MATERIALS, PARTIAL REMOVAL OF THE DRAINAGE SYSTEM, RELOCATION OF NEW AGGREGATE BEDS, BED DRAINAGE SYSTEM, AND RESTORATION.
9. SOIL MATERIALS EXCAVATED FROM THE EXISTING BEDS SHALL BE PLACED IN THE DESIGNATED LOCATION INSIDE GATE 80. TOPSOIL SHALL BE REMOVED FROM THE DISPOSAL AREA PRIOR TO DISPOSAL OF SOILS. TOPSOIL SHALL BE PLACED OVER SOILS ONCE EXCAVATION IS COMPLETE AND THE AREA SEEDED AND MULCHED.
10. CONSTRUCTION STAFF WORKING INSIDE THE AIRPORT SECURITY FENCE SHALL OBTAIN AN AOA SECURITY BADGE FROM THE GERALD R. FORD INTERNATIONAL AIRPORT.

POINT #	LOCATION	LATITUDE	LONGITUDE	ELEVATION	MAX. HEIGHT	AMSL
1	W1	N042° 53' 11.65"	W085° 30' 00.88"	752'	35'	787'
2	W2	N042° 53' 11.98"	W085° 29' 44.77"	742'	35'	777'
3	W3	N042° 53' 06.05"	W085° 29' 44.54"	730'	35'	765'
4	W4	N042° 53' 05.73"	W085° 30' 00.66"	736'	35'	771'
5	W5	N042° 53' 38.31"	W085° 30' 56.85"	790'	35'	825'
6	W6	N042° 53' 38.41"	W085° 30' 46.74"	773'	35'	808'
7	W7	N042° 53' 36.36"	W085° 30' 42.83"	773'	35'	808'
8	W8	N042° 53' 34.50"	W085° 30' 41.47"	781'	35'	816'
9	W9	N042° 53' 29.41"	W085° 30' 41.11"	776'	35'	811'
10	W10	N042° 53' 29.00"	W085° 30' 50.22"	773'	35'	808'
11	W11	N042° 53' 32.67"	W085° 30' 50.29"	767'	35'	802'
12	W12	N042° 53' 32.60"	W085° 30' 56.75"	769'	35'	804'
13	S1	N042° 53' 07.00"	W085° 29' 56.90"	730'	35'	765'
14	S2	N042° 53' 05.94"	W085° 29' 51.73"	731'	35'	766'
15	S3	N042° 53' 05.86"	W085° 29' 56.32"	732'	35'	767'
16	S4	N042° 53' 06.40"	W085° 29' 57.43"	732'	35'	767'
17	HR 1	N042° 53' 07.88"	W085° 30' 00.83"	746'	35'	781'
18	HR 2	N042° 53' 33.20"	W085° 30' 48.37"	785'	35'	820'



The diagram illustrates a runway layout with the following components:

- CONSTRUCTION AREA**: Indicated by two horizontal lines at the top.
- STAGING & STORAGE AREA**: Indicated by three dashed rectangular boxes below the construction area.
- ACCESS ROUTE**: Indicated by a horizontal dotted line.
- RUNWAY PROTECTION ZONE (RPZ)**: Indicated by a horizontal line with the label "RPZ" in the center.
- PART 77 SURFACE**: Indicated by two horizontal lines below the RPZ.
- FENCE LINE**: Indicated by a horizontal line with vertical tick marks.
- PROJECT COORDINATE LOCATION**: Indicated by a crosshair symbol and a box labeled "W99".
- EXISTING PAVEMENT**: Indicated by a horizontal rectangular box.
- EXISTING BUILDING**: Indicated by a horizontal rectangular box below the pavement.

NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ADDENDUM 1 - ROAD RESTORATION	JAS	10/30/26	SXH
				DATE OCT. '26
				CHECKED JAS
				DATE OCT. '26

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

CONSTRUCTION SAFETY PHASING PLAN

PROJECT NO.
250383

SHEET NO.

—001

T:\OAKLAND PROJECTS\2025\2250381_014_NTS PHASE 2\L_P000\2250381_02_03_CSPH PH2.DWG - SHEEDER - Oct. 09 2026 - 12:00pm - Prein&Newhof

CONSTRUCTION SAFETY PHASING NOTES

1. NTS BED MATERIAL AND DRAINAGE SYSTEMS SHALL BE COMPLETE AND READY FOR INITIATING DEVELOPMENT OF SOIL BACTERIA FOR STORMWATER TREATMENT BY AUGUST 31, 2027. SURFACE RESTORATION AND PUNCH LIST ITEMS MUST BE COMPLETE BY SEPTEMBER 30, 2027.

2. TWO NOTICES TO PROCEED WILL BE ISSUED. ONE WILL BE ISSUED AFTER THE CONSTRUCTION AGREEMENT HAS BEEN FULLY EXECUTED TO FACILITATE PROCESSING OF SHOP DRAWINGS AND SUBMITTALS PRIOR TO STARTING CONSTRUCTION. A SECOND "NOTICE TO PROCEED" WILL BE ISSUED FOR CONSTRUCTION TO START ON TUESDAY, JUNE 1, 2027.

3. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL WORK BETWEEN JUNE 1, 2027 AND THE TIMES SPECIFIED IN ITEM 1 ABOVE, LIQUIDATED DAMAGES SHALL BE ASSESSED AT THE RATE OF \$2,500 PER CALENDAR DAY UNTIL COMPLETION.

4. THE CONTRACTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY (GFIAA) RULES AND REGULATIONS (<https://www.grr.org/hubfs/PDFs/BoardDocs/2026R20RulesR20andR20regulations.pdf?hsLang=en>) AS WELL AS ALL SECURITY REQUIREMENTS OF THE AIRPORT. SECURITY REQUIREMENTS ARE SUBJECT TO CHANGE AS MANDATED BY THE TRANSPORTATION SECURITY ADMINISTRATION (TSA). FAILURE TO COMPLY WITH SECURITY REQUIREMENTS WILL RESULT IN SUSPENSION OF THE CONTRACTOR'S OPERATIONS UNTIL A PLAN TO CORRECT DEFICIENCIES IS APPROVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES LEVIED AGAINST OR BY THE AIRPORT FOR SECURITY VIOLATIONS RESULTING FROM THE CONTRACTOR'S ACTIVITIES.

5. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF FAA ADVISORY CIRCULAR 150/5370-2, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

6. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) TO THE AIRPORT PRIOR TO NOTICE TO PROCEED. A SAMPLE DOCUMENT IS INCLUDED IN THE PROJECT SPECIFICATIONS DOCUMENT, NATURAL TREATMENT SYSTEM MAINTENANCE, PHASE 2, DATED OCT. 9, 2026 (REFER TO THE TABLE OF CONTENTS IN THAT DOCUMENT).

7. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE SAFETY AND OPERATIONS PLAN (SHEET G-001 AND THE NOTES ON THIS SHEET).

8. THE GROUND MOVEMENT OF AIRCRAFT SHALL HAVE RIGHT-OF-WAY AT ALL TIMES. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL YIELD TO AIRCRAFT AT ALL TIMES.

9. IF OPENING OR CLOSING OF ANY AIRCRAFT PAVEMENT AREA BECOMES NECESSARY, SUCH ACTIONS SHALL BE COORDINATED THROUGH AIRPORT OPERATIONS. A MINIMUM OF 72 HOURS NOTICE IS REQUIRED. NO BARRICADES SHALL BE PLACED OR REMOVED WITHOUT APPROVAL FROM THE AIRPORT.

10. THE CONTRACTOR'S SUPERINTENDENT SHALL ATTEND CONSTRUCTION PROGRESS AND SAFETY/SECURITY MEETINGS ON A WEEKLY BASIS THROUGHOUT THE DURATION OF THE PROJECT OR AS REASONABLY REQUESTED BY THE OWNER. THE MEETINGS WILL BE HELD AT A LOCATION ON AIRPORT PROPERTY AS DETERMINED BY THE AIRPORT.

11. THE CONTRACTOR SHALL COORDINATE HAUL ROUTES AND SCHEDULES WITH AIRPORT OPERATIONS AND/OR ENGINEERING STAFF. OTHER CONSTRUCTION PROJECTS MAY BE IN PROGRESS DURING THE SAME TIME PERIOD AS THIS PROJECT. ALL CONTRACTOR ACCESS TO THE SITE SHALL BE FROM THORNAPPLE RIVER DRIVE AND THE EXISTING GRAVEL SERVICE DRIVE.

12. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN THEIR OWN HAUL ROUTES AS NECESSARY TO COMPLETE THEIR WORK. HAUL ROUTES MUST BE APPROVED BY THE AIRPORT PRIOR TO CONSTRUCTION. HAUL ROUTES SHALL BE RESTORED AS DESCRIBED ABOVE FOR THE CONTRACTOR'S STORAGE AREA.

13. SOIL EXCAVATED FROM CONSTRUCTION OPERATIONS MUST BE DISPOSED AT THE DESIGNATED DISPOSAL SITE INSIDE GATE 80 (SEE SHEET G-001).

14. THE CONTRACTOR SHALL PROVIDE APPROPRIATELY BADGED INDIVIDUALS TO GUARD GATES USED FOR ACCESS INTO THE AOA SECURE AREA. GATE GUARDS WILL BE REQUIRED TO ATTEND TRAINING SESSIONS FOR GATE OPERATION CONDUCTED BY THE AIRPORT POLICE. GATE GUARDS WILL BE REQUIRED TO LOG INGRESS AND EGRESS OF ALL TRAFFIC. SAMPLE GATE LOGS ARE AVAILABLE FROM THE AIRPORT POLICE.

15. THE CONTRACTOR SHALL PROVIDE THE OWNER AND GFIAA WITH THE NAME AND TELEPHONE NUMBER OF TWO (2) INDIVIDUALS WHO WILL BE AVAILABLE 24 HOURS A DAY, SEVEN DAYS A WEEK THROUGHOUT THE DURATION OF THE PROJECT FOR EMERGENCY USE. THESE CONTACT PEOPLE SHALL HAVE THE AUTHORITY TO IMMEDIATELY CORRECT ANY SAFETY OR SECURITY DEFICIENCY AS IDENTIFIED BY AIRPORT STAFF.

16. THE NTS AREA IS LOCATED OUTSIDE OF THE AIRPORT SECURITY FENCE. THE SOIL DISPOSAL AREA IS LOCATED INSIDE THE SECURITY FENCE.

17. AIRPORT ISSUED IDENTIFICATION BADGES WILL BE REQUIRED FOR ALL WORK INSIDE THE AIR OPERATIONS AREA (AOA). BADGES ARE ISSUED BY THE GFIAA BADGING OFFICE. APPLICANTS MUST SCHEDULE AN APPOINTMENT THROUGH THE AIRPORT BADGING WEBSITE (<https://www.grr.org/badging-services>). APPLICANTS MUST PRESENT REQUIRED DOCUMENTATION AND A FINGERPRINT SCREENING APPLICATION WHEN THEY ARRIVE AT THE APPOINTMENT. A LIST OF ACCEPTABLE IDENTIFICATION DOCUMENTS AND THE APPLICATION FORM ARE AVAILABLE FROM THE BADGING WEBSITE. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWO (2) WEEKS TO COMPLETE THE APPLICATION PROCESS. A TWO-WEEK TURN AROUND IS NOT GUARANTEED.

18. THE CONTRACTOR SHALL LIMIT ACCESS INTO THE SECURE AREA TO AUTHORIZED CONTRACTOR VEHICLES. ALL AUTHORIZED CONTRACTOR VEHICLES SHALL HAVE A PERMANENTLY ATTACHED SIGN ON BOTH SIDES CONTAINING THE CONTRACTOR'S COMPANY NAME. A FLASHING YELLOW LIGHT SHALL BE MOUNTED AT THE HIGHEST POINT OF THE VEHICLE. PERSONAL VEHICLES WILL NOT BE ALLOWED WITHIN THE AIRPORT SECURITY FENCE.

19. CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE AT THE LOCATION SHOWN. ALL TRAILERS, EMPLOYEE PARKING, EQUIPMENT AND MATERIAL STORAGE SHALL BE KEPT IN THAT AREA.

20. THE CONTRACTOR SHALL CONFINE OPERATIONS TO THE LIMITS OF THE CONSTRUCTION AREA AND THE DESIGNATED ACCESS ROUTES. CONTRACTOR PERSONNEL, EQUIPMENT, MATERIALS, SUBCONTRACTORS AND SUPPLIERS WILL NOT BE ALLOWED ON ANY OTHER AREA WITHIN THE AIRPORT SECURITY FENCE WITHOUT PRIOR APPROVAL FROM GFIAA.

21. ALL CONTRACTOR EQUIPMENT MUST BE STORED A MINIMUM OF 10 FEET FROM SECURITY FENCE AT ALL TIMES.

22. CONTRACTOR SHALL CONTROL DUST FROM CONSTRUCTION OPERATIONS BY VACUUM TYPE SWEEPING, WATERING OR OTHER METHODS AS APPROVED BY GFIAA. IF THE CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT, CONSTRUCTION WILL BE SUSPENDED UNTIL A PLAN FOR CONTROLLING DUST IS APPROVED BY GFIAA.

23. MAXIMUM EQUIPMENT HEIGHT FOR ALL AREAS IS 35 FEET.

24. THE CONTRACTOR'S EQUIPMENT STORAGE AREA SHALL BE AT THE LOCATIONS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN (SEE POINTS S1 THROUGH S4, DRAWING G-001). THE CONTRACTOR SHALL CONFINE THE STORAGE OF EQUIPMENT AND MATERIALS TO THIS AREA. THE MAXIMUM STORAGE HEIGHT SHALL BE AS INDICATED. ALL NON-PAVED AREAS THAT ARE DISTURBED BY CONTRACTOR'S OPERATIONS, LOCATED OUTSIDE OF THE GRADING LIMITS SHALL BE RESTORED WITH 4" OF TOPSOIL, SEEDED WITH 95% HIGH ENDOPHYTE CREEPING RED FESCUE AND 5% PERENNIAL RYE, MULCHED AND ANCHORED IN ACCORDANCE WITH SECTION 816 OF MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION. AT THE CONTRACTOR'S EXPENSE. ALL PAVED AREAS THAT ARE DAMAGED BY THE CONTRACTOR'S HAUL ROUTES OR OTHER OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING AND CONTAINING FUEL, OIL AND OTHER HAZARDOUS MATERIALS DELIVERED TO THE AIRPORT BY THE CONTRACTOR FOR CONSTRUCTION OPERATIONS. MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH EGLE, MIOSHA, EPA, OR OTHER AGENCIES WITH REGULATORY AUTHORITY OVER THE ASSOCIATED MATERIAL. ALL RELEASES OF HAZARDOUS MATERIALS SHALL BE REPORTED TO AIRPORT COMMUNICATIONS IMMEDIATELY AND REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL AND CLEANUP COSTS INCLUDING FINES AND PENALTIES ASSESSED TO THE AIRPORT AS A RESULT OF THE RELEASE. CONTRACTOR SHALL SUBMIT COPIES OF ALL SAFETY DATA SHEETS (SDS) ASSOCIATED WITH THE WORK TO THE ENGINEER PRIOR TO DELIVERY TO THE SITE.

26. NO WORK ON AIRPORT PAVEMENTS IS ANTICIPATED AS PART OF THIS PROJECT. IF WORK ON AN AIRPORT PAVEMENT BECOMES NECESSARY, MATERIAL TRACKED OR OTHERWISE DEPOSITED ON AIRCRAFT PAVEMENT AREAS BY CONTRACTOR'S OPERATIONS SHALL BE REMOVED PRIOR TO REOPENING THE AREA TO TRAFFIC.

27. IF WORK ON AIRPORT PAVEMENTS BECOMES NECESSARY, CONTRACTOR SHALL MAINTAIN ALL IMPACTED AIRFIELD PAVEMENT SURFACES IN AN OPERABLE CONDITION FOR AIRCRAFT. ANY AIRFIELD PAVEMENT DAMAGED BY CONTRACTOR'S EQUIPMENT SHALL BE REPLACED IMMEDIATELY AND AT THE CONTRACTOR EXPENSE.

28. CONTRACTOR SHALL COLLECT AND DISPOSE OF LUNCH WRAPPERS, FOOD AND OTHER WILDLIFE ATTRACTANTS. CONTRACTOR SHALL ABIDE BY AIRPORT WILDLIFE MANAGEMENT PROCEDURES.

29. CONTRACTOR SHALL IMMEDIATELY NOTIFY AIRPORT MANAGEMENT OF ANY CONDITION THAT MAY, IN THE CONTRACTOR'S OPINION, ADVERSELY AFFECT OPERATIONAL SAFETY. AIRPORT OPERATIONS WILL ASSESS THE REPORT AND NOTIFY THE FAA AND OTHER IMPACTED PARTIES AS WARRANTED BY THE SITUATION

30. IN CASE OF AN AIRPORT EMERGENCY, CONTACT AIRPORT COMMUNICATIONS AT 616-233-6055. CONTRACTOR SHALL CONTACT 911 FOR ALL OTHER EMERGENCIES.

31. CONTRACTOR SHALL INSPECT THE WORK AREA EACH DAY AND COMPLETE THE CONSTRUCTION PROJECT DAILY SAFETY INSPECTION CHECKLIST. CHECKLIST IS INCLUDED IN THE CONTRACT DOCUMENTS. COPIES OF THE CHECKLIST SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST. FAILURE TO SUBMIT REPORTS IN A TIMELY MANNER WILL RESULT IN SUSPENSION OF WORK AND PAYMENTS UNTIL THE REPORTS ARE SUBMITTED. ALL COSTS FOR INSPECTIONS AND SUBMITTAL OF CHECKLIST SHALL BE INCLUDED IN THE LUMP SUM UNIT ITEM FOR SAFETY AND SECURITY.

32. FINAL INSPECTIONS WILL BE CONDUCTED BY AIRPORT PERSONNEL AND THE ENGINEER. RUNWAYS, TAXIWAYS, AND OTHER AIRCRAFT PAVEMENTS WILL NOT BE RE-OPENED UNTIL THE SAFETY AREAS HAVE BEEN INSPECTED AND APPROVED BY AIRPORT MANAGEMENT. (AIRCRAFT PAVEMENT IMPACTS ARE NOT ANTICIPATED BY THIS PROJECT.)

33. NO PROPOSED, TEMPORARY, OR PERMANENT ADJUSTMENTS TO THE RUNWAY SAFETY AREA (RSA) OR TAXIWAY SAFETY AREA (TSA) DIMENSIONS ARE ASSOCIATED WITH THIS CONTRACT.

34. CONTRACTOR SHALL NOT CROSS, PROTRUDE, ENTER OR BREAK THE PLANE OF AN OPEN RSA, TSA, OBJECT FREE ZONE (OFZ), OR OBJECT FREE AREA (ROFA, TOFA) WITH PERSONNEL, EQUIPMENT AND/OR MATERIAL.

35. CONTRACTOR SHALL NOT USE OPEN FLAME WELDERS OR TORCHES OUTSIDE OF THE STAGING AND STORAGE AREA WITHOUT APPROVAL BY THE AIRPORT. IF "HOT WORK" IS REQUIRED, CONTRACTOR SHALL SUBMIT A "HOT WORK" PERMIT REQUEST TO THE AIRPORT. "HOT WORK" PERMIT FORM MAY BE FOUND AT <https://forms.gle/o6izaxeDGHxZdc8>. AN APPROVED PERMIT IS REQUIRED PRIOR TO STARTING ANY "HOT WORK". USE OF OPEN FLAME WELDERS OR TORCHES SHALL BE IN ACCORDANCE WITH AIRPORT PERMIT REQUIREMENTS AND THE CONTRACTOR'S CORPORATE POLICY. A CONTRACTOR'S SAFETY PLAN FOR "HOT WORK" ACTIONS IS REQUIRED. USE SHALL BE LIMITED TO AREAS WITH FIRE PROTECTION, AND CONTRACTOR SHALL PREVENT FIRES FROM STARTING AND LIMIT THE SPREAD IF ONE IS STARTED.

36. CONTRACTOR SHALL NOT USE EXPLOSIVES.

37. DEFINITIONS:
SPONSOR/OWNER/AIRPORT – GERALD R. FORD INTERNATIONAL AIRPORT, GRR, GFIAA
AC – ADVISORY CIRCULAR
AOA – AIR OPERATIONS AREA
CFR – CODE OF FEDERAL REGULATIONS
FAA – FEDERAL AVIATION ADMINISTRATION
FOD – FOREIGN OBJECT DEBRIS
PAPI – PRECISION APPROACH PATH INDICATOR
REIL – RUNWAY END IDENTIFIER LIGHT
ROFA – RUNWAY OBJECT FREE AREA
ROFZ – RUNWAY OBJECT FREE ZONE
RSA – RUNWAY SAFETY AREA
TOFA – TAXIWAY OBJECT FREE AREA
TSA – TAXIWAY SAFETY AREA
NAVAID – NAVIGATIONAL AID
NOTAM – NOTICE TO AIRMEN

CONSTRUCTION NOTES:
GENERAL

1. IN CASE OF CONFLICT BETWEEN NOTES SHOWN ON THE DRAWINGS AND THE STANDARD SPECIFICATIONS, THE NOTES ON THE DRAWINGS SHALL TAKE PRECEDENCE.
2. THE INFORMATION CONCERNING UNDERGROUND UTILITIES WAS COMPILED FROM INFORMATION AND SKETCHES FURNISHED BY OR OBTAINED FROM UTILITY COMPANIES AND THE AIRPORT. THE OWNER AND THE ENGINEER DO NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR IS ADVISED TO DETERMINE THE EXACT LOCATIONS FROM THE AVAILABLE SOURCES OF INFORMATION OR PROVIDE THEIR OWN MEANS OF DETECTION.
3. IN ACCORDANCE WITH SECTIONS 70-10, 70-11 AND 70-15 OF THE GENERAL CONTRACT PROVISIONS, CONTRACTOR SHALL, PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION: I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED, AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. GFIAA WILL PROVIDE THE UTILITY LOCATION SERVICES OF AIRPORT OWNED FACILITIES SUBJECT TO SUBMISSION OF A "MISSDIG" REQUEST AT 811 OR WWW.MISSDIG811.ORG. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATIONS OF SUCH AN INSTALLATION, THE EXACT LOCATIONS SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING, AND WHEN IT IS DISCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 2 NORMAL BUSINESS DAYS PRIOR TO THE START OF ACTUAL EXCAVATION.

MOBILIZATION

4. ALL COSTS ASSOCIATED WITH MOBILIZATION AS DESCRIBED IN ITEM C-105, "MOBILIZATION" SHALL BE INCLUDED INTO THE LUMP SUM ITEM FOR "MOBILIZATION, MAX 10%". THE MAXIMUM AMOUNT ALLOWABLE FOR MOBILIZATION WILL BE TEN (10) PERCENT OF THE TOTAL BID AMOUNT.

SAFETY AND SECURITY

5. ALL COSTS ASSOCIATED WITH SAFETY AND SECURITY IDENTIFIED IN THE PLANS AND SPECIFICATIONS SHALL BE INCLUDED INTO THE LUMP LUMP SUM ITEM FOR "SAFETY AND SECURITY". PARTIAL PAYMENTS FOR "SAFETY AND SECURITY" SHALL BE MADE ACCORDING TO THE FOLLOWING SCHEDULE:

5.1. WITH FIRST PAY REQUEST, 15%.

5.2. WHEN 25% OR MORE OF THE ORIGINAL CONTRACT IS EARNED, AN ADDITIONAL 10% (25% TOTAL).

5.3. WHEN 50% OR MORE OF THE ORIGINAL CONTRACT IS EARNED, AN ADDITIONAL 25% (50% TOTAL).

5.4. WHEN 75% OR MORE OF THE ORIGINAL CONTRACT IS EARNED, AN ADDITIONAL 25% (75% TOTAL).

5.5. AFTER FINAL INSPECTION, STAGING AREA CLEAN-UP AND DELIVERY OF ALL PROJECT CLOSEOUT MATERIALS AS REQUIRED BY 90-11, THE FINAL 25%.

SOIL EROSION AND SEDIMENTATION CONTROL

6. THE CONTRACTOR SHALL FILE FOR THE SOIL EROSION CONTROL PERMIT WITH THE KENT COUNTY ROAD COMMISSION. THE OWNER WILL FURNISH A SIGNED PERMIT APPLICATION AND SOIL EROSION CONTROL PLANS TO THE CONTRACTOR. THE CONTRACTOR SHALL PAY ALL FEES AND BE LISTED AS THE AGENT FOR THE OWNER. THE CONTRACTOR SHALL FURNISH THE OWNER WITH A COPY OF THE APPROVED PERMIT.
7. THE CONTRACTOR SHALL FILE FOR AN NPDES "NOTICE OF COVERAGE" WITH THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY. THE CONTRACTOR SHALL PAY ALL FEES AND BE LISTED AS THE AGENT FOR THE OWNER. THE CONTRACTOR SHALL FURNISH THE OWNER WITH A COPY OF THE "NOTICE OF COVERAGE".
8. COSTS FOR THE SESC PERMIT, INSPECTIONS AND THE "NOTICE OF COVERAGE" SHALL BE INCLUDED IN THE PER DOLLAR ALLOWANCE FOR "PERMITS". PAYMENT WILL BE BASED ON COSTS INVOICED TO AND SUBMITTED BY THE CONTRACTOR WITHOUT MARK-UP OR OTHER ADJUSTMENT.
9. ANY FINES LEVIED AGAINST THE OWNER FOR THE CONTRACTOR'S FAILURE TO INSTALL, MAINTAIN OR SECURE SOIL EROSION CONTROLS AS DESCRIBED HEREIN AND ON THE PLANS WILL BE THE CONTRACTOR'S RESPONSIBILITY. THESE FINES WILL BE DEDUCTED FROM THE AMOUNT DUE TO THE CONTRACTOR.

NO.	REVISIONS	BY	DATE	DRAWN
				SHX
				DATE OCT. '26
				CHECKED JAS
				DATE OCT. '26

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

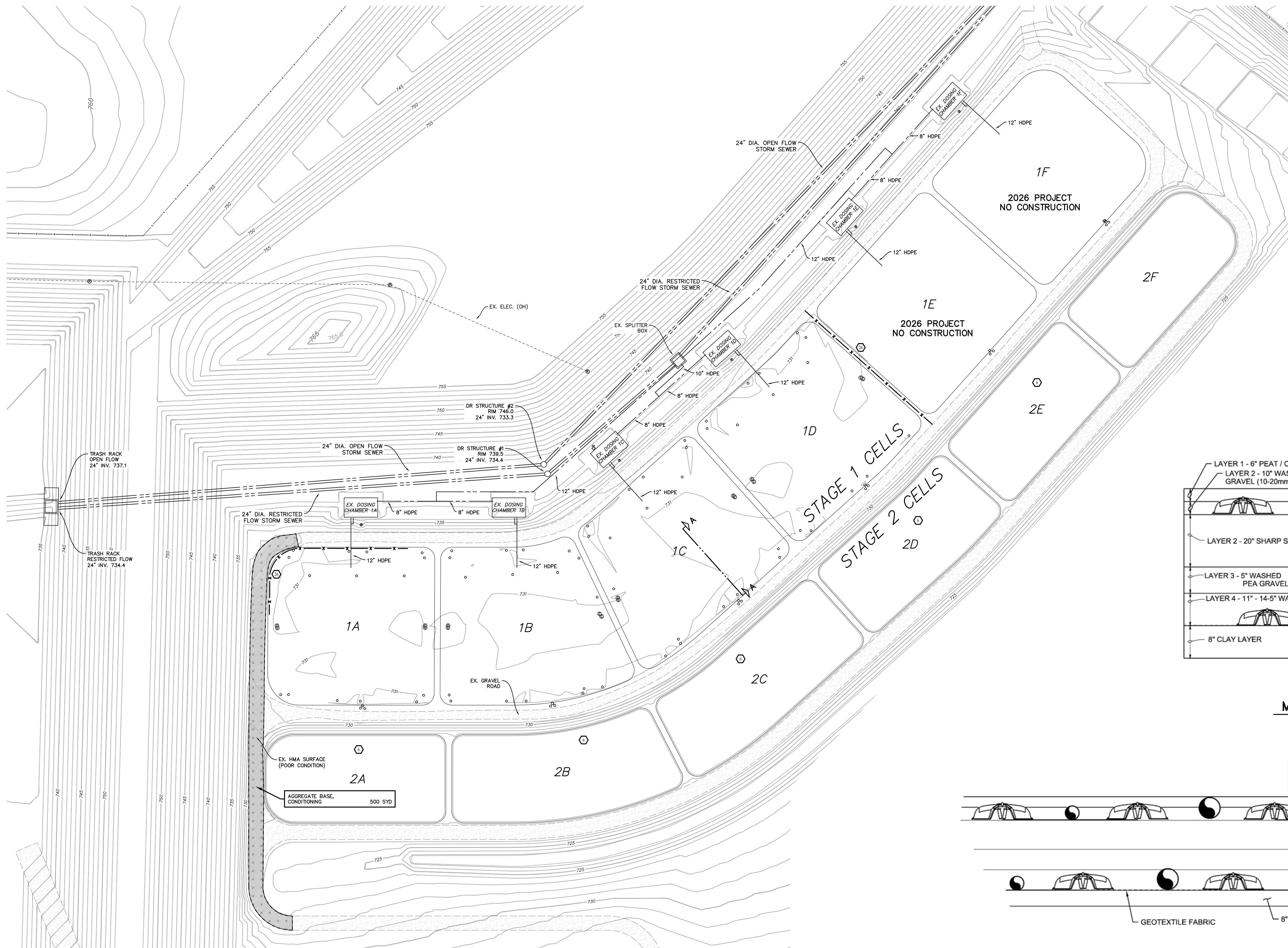
CONSTRUCTION NOTES

PROJECT NO.
2250383

SHEET NO.

G-002

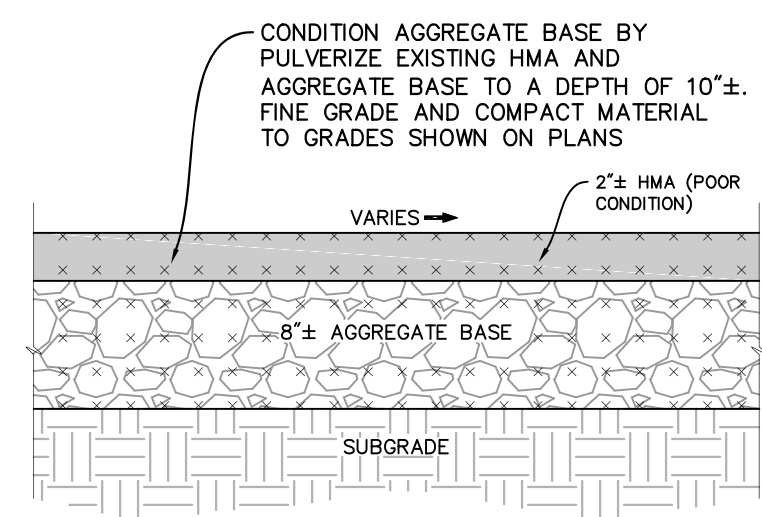
T:\CIVIL\PROJECTS\2025\2250383_C-000 EXISTING CONDITIONS.DWG - SITE PLAN - OCT. 10, 2025 - 08:20am - Prein&Newhof



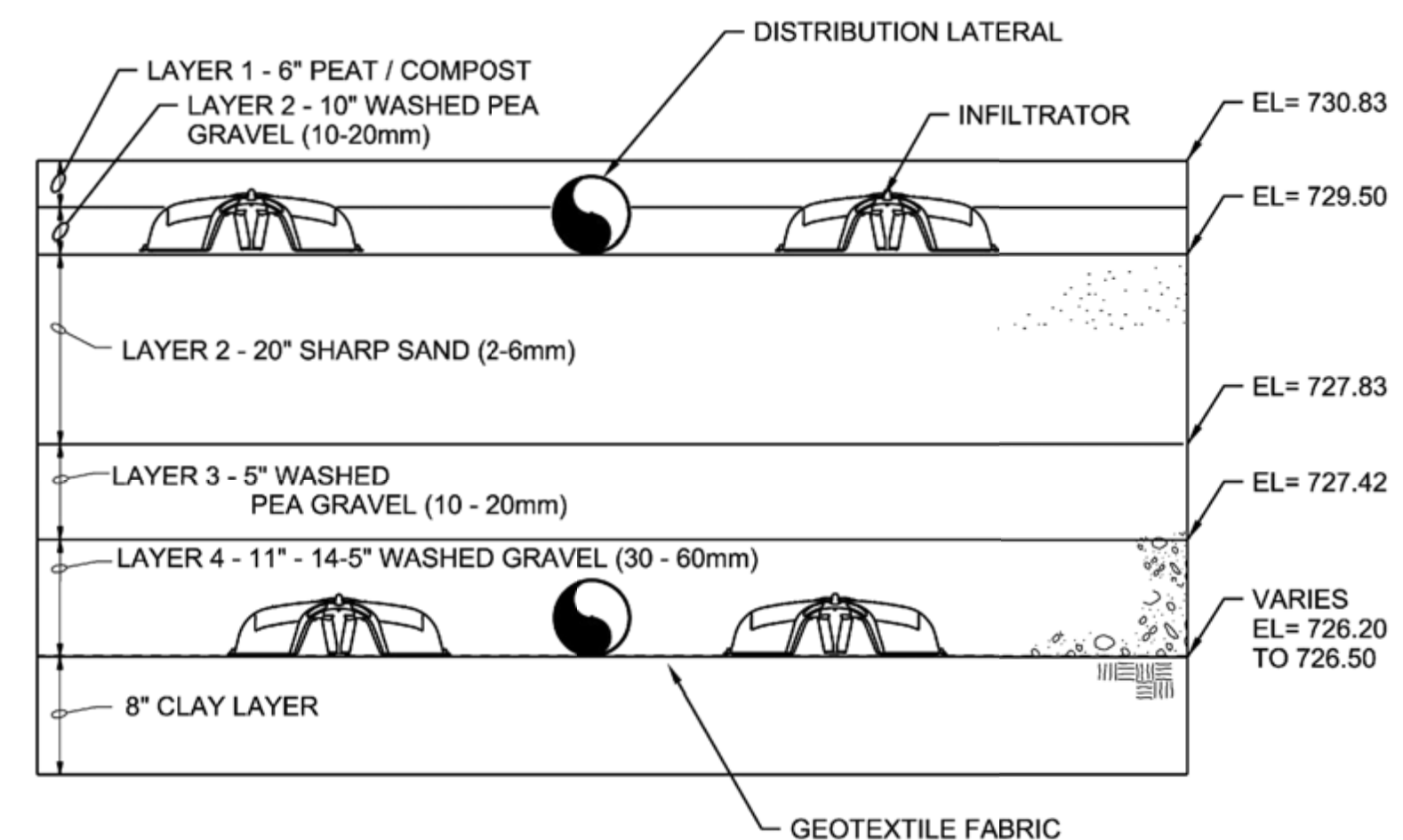
EXISTING SITE CONDITIONS
SCALE : 1" = 40'

LINETYPE LEGEND	
	EX. CONTOUR
	EX. CONTOUR (INDEX)
	EDGE OF CELL
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT
	EX. FENCE
	EX. OVERHEAD ELECTRIC
	EX. STORM SEWER
	SILT FENCE
	EX. INFILTRATORS
	EX. CLEANOUT

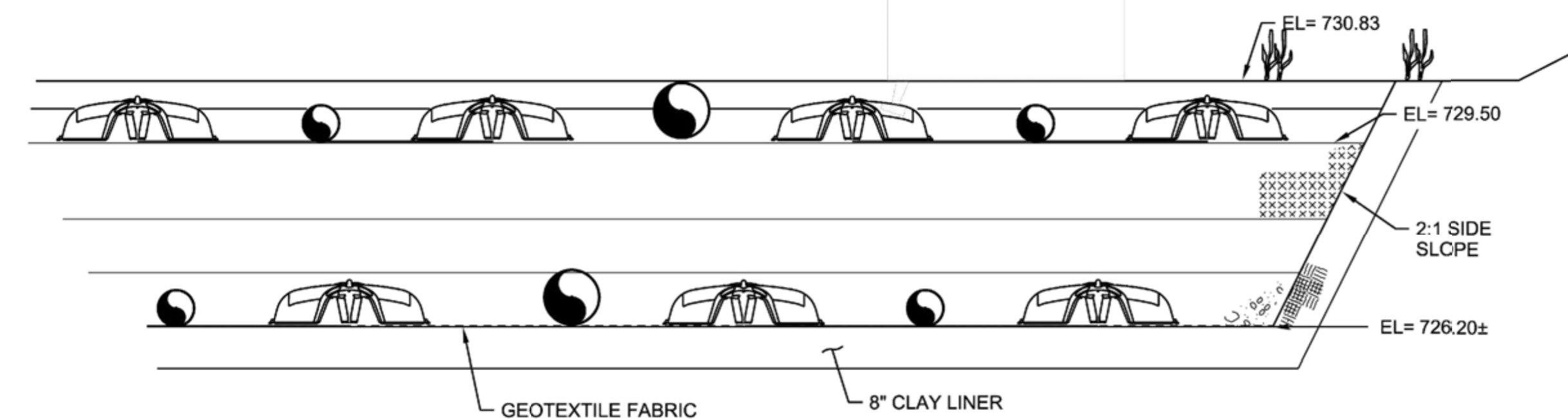
SOIL EROSION CONTROL KEY INDEX	
	VEGETATIVE BUFFER STRIP
	SILT FENCE



EXISTING ROAD CROSS SECTION
SCALE: NONE



TYPICAL EXISTING BED MEDIA SECTION - STAGE 1
SCALE : NONE



SECTION A - A
SCALE : NONE



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NO.	REVISIONS	BY	DATE	DRAWN
				SXH
			OCT. '26	CHECKED
			JAS	DATE
			OCT. '26	

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

EXISTING SITE CONDITIONS

PROJECT NO.
2250383

SHEET NO.
C-000

AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHR	ANCHOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AJ	ADJUSTABLE
AL	ALUMINUM
ALTN	ALTERNATE
APPROX	APPROXIMATE
APVD	APPROVED
AS	AS SELECTED
AVG	AVERAGE
@	AT

BETW	BETWEEN
BF	BLIND FLANGE
BL	BASELINE
BM	BENCHMARK
BO	BOTTOM OF
BOP	BOTTOM OF PIPE
BOT	BOTTOM

C TO C	CENTER TO CENTER
CB	CATCH BASIN
CC	CENTER OF CIRCLE
CDF	CONTROLLED DENSITY FILL
CE	CONSTRUCTION ENTRANCE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHKD	CHECKERED
CI	CAST IRON
CIP	CAST IN PLACE
CIP	CULVERT INLET PROTECTION
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLDI	CEMENT LINED DUCTILE IRON
CLR	CLEAR, CLEARANCE

CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUED, CONTINUOUS, CONTINUATION
COORD	COORDINATE
CPLG	COUPLING
CPVC	CHLORINATED PVC
CRS	CONSTRUCTION ROAD STABILIZATION
CTR	CENTER
CTRD	CENTERED
CU	CUBIC
CU FT	CUBIC FOOT
CV	CHECK VALVE
CY, CU YD	CUBIC YARD

D	DRAIN
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREE

DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DISCH	DISCHARGE
DN	DOWN
DWG	DRAWING
DWL	DOWEL
△	DELTA

E	EAST, EMPTY
EA	EACH, EXHAUST AIR
ECC	ECCENTRIC
EF	EACH FACE, EXHAUST FAN
EFF	EFFICIENCY, EFFICIENT
EFL	EFFLUENT
EG	EXISTING GRADE
EL	ELEVATION
ELB	ELBOW
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EP	EDGE OF PAVING
EQL	EQUAL
EQL SP	EQUALLY SPACED
EQPT	EQUIPMENT
ESC	EROSION AND SEDIMENT CONTROL
EW	EACH WAY
EXP	EXPANSION, EXPOSED
EXP AB	EXPANSION ANCHOR BOLT
EXP JT	EXPANSION JOINT
EXST, EXIST	EXISTING
EXT	EXTERIOR

FB	FLAT BAR
F,FX	FIXED
FCA	FLANGED COUPLING ADAPTER
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISH GRADE, FLOAT GLASS
FIG	FIGURE
FL	FLOW LINE
FLG	FLANGE
FLEX	FLEXIBLE
FNSh	FINISH
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FT	FOOT OR FEET
FTG	FOOTING
FWD	FORWARD

GAL	GALLON
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITION SYSTEM
GRTG	GRATING
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GVL	GRAVEL

H.A.S.	HEADED ANCHOR STUD
HDR	HEADER
HGL	HYDRAULIC GRADE LINE
HGT	HEIGHT
HH	HANDHOLE
HK	HOOK
HORIZ	HORIZONTAL
HPT	HIGH POINT
HWL	HIGH WATER LEVEL

ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
I.F.	INSIDE FACE

IN	INCH
INFL	INFLUENT
INV	INVERT
IP	INLET PROTECTION
JCT	JUNCTION
JT	JOINT
KIP	THOUSAND POUNDS

L	ANGLE, LENGTH
LAT	LATITUDE
LB	POUND
LF	LINEAR FEET
LG	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LPT	LOW POINT
LR	LONG RADIUS
LT	LEFT
LWL	LOW WATER LEVEL

MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MP	METAL PANEL
MS	MANUFACTURER'S STANDARD
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MU	MULCHING
MWS	MAXIMUM WATER SURFACE

N	NORTH
NA	NOT APPLICABLE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO., #	NUMBER
NOM	NOMINAL
NTS	NATURAL TREATMENT SYSTEM

O TO O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE

P	PIPE
PE	PLAIN END
PEP	POLYETHYLENE PIPE
PFC	POUNDS PER CUBIC FOOT
PI	POINT OF INTERSECTION
PL	PLATE (STEEL), PROPERTY LINE
PAIR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATION
PRM	PERMANENT REFERENCED MARKER
PROJ	PROJECTION
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAUGE
PT	POINT OF TANGENCY

PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY

QAA	AVERAGE FLOW
-----	--------------

R	RISER
R OR RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDCR	REDUCER
REF	REFER OR REFERENCE
REINF	REINFORCED, REINFORCING, REINFORCE
REQD	REQUIRED
RH	RIGHT HAND
RO	ROUGH OPENING
RR	RIPRAP
RST	REINFORCING STEEL
RT	RIGHT
RTN	RETURN
R/W	RIGHT OF WAY

S	SLOPE, SOUTH
SB	SEDIMENT BASIN
SCFM	STANDARD CUBIC FEET PER MINUTE

SDWK	SIDEWALK
SEC	SECONDARY
SECT	SECTION
SED	SEDIMENTATION
SH	SHEET
SIM	SIMILAR
SP	SPACE OR SPAC
SPEC, SPECS	SPECIFICATIONS
SPG	SPACING
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT, I
SQ IN	SQUARE INCH
SST	STAINLESS STEEL
ST	STORM DRAIN
STA	STATION
STD	STANDARD
STIF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRL	STRUCTURAL
STRUCT	STRUCTURE
SYMM	SYMMETRICAL

T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TECH	TECHNICAL
TBG	TUBING
TEMP	TEMPORARY
TF	TOP FACE
TH	TOP-HINGED
THD	THREAD
THK	THICKNESS
THRU	THROUGH
TOB	TOP OF BERM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOG	TOP OF GRATE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TP	TURNING POINT
TRANSV	TRANSVERSE
TS	TEMPORARY SEEDING
TST	TOP OF STEEL
TURB	TURBIDITY
TYP	TYPICAL

UON	UNLESS OTHERWISE NOTED
UNO	UNLESS NOTED OTHERWISE
V	VALVE
VEL	VELOCITY
VERT	VERTICAL
VIF	VERIFY IN FIELD

W	WEST
W/	WITH
WS	WATER SURFACE, WATERSTOP, WELDED STEEL
WWF	WELDED WIRE FABRIC

SECTION (LETTER) OR
DETAIL (NUMERAL)
DESIGNATION _____ ON DRAWING WHERE SECTION
OR DETAIL IS TAKEN: _____
DRAWING NUMBER _____

DRAWING NUMBER
(REPLACED WITH A LINE
IF TAKEN AND SHOWN
ON SAME SHEET)

100-S-3001

2
200-M-10B10

SCALE

1 GRID LINE INDICATOR

1 KEYNOTE NUMBER

1 REVISION / ADDENDA NUMBER

 NORTH ARROW; CAN BE MODIFIED TO INCLUDE MAGNETIC NORTH ALONG WITH PROJECT NORTH

NOTE:

1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

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				GFB
				DATE 10/09/2026
				CHECKED VJ
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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A, 1B, 1C & 1D
GENERAL ABBREVIATIONS

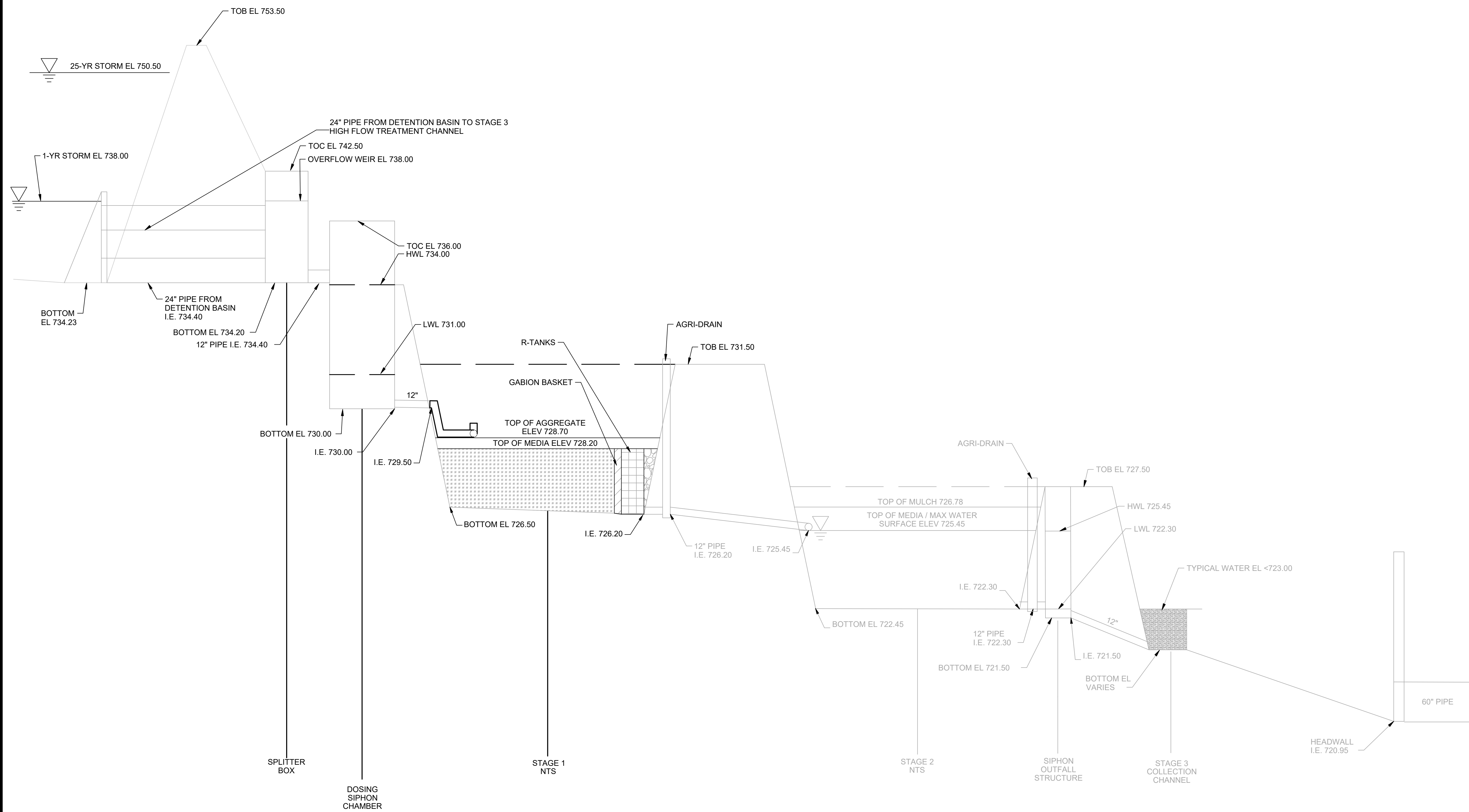
PROJECT NO.
250383

SHEET NO.
C-001



Jeffrey J. Yakel
US,
jeff.yakel@jacobs.com,
Jacobs, CN=Jeffrey J.
Yakel
26.10.09
22:00:04'00'

- NOTE:
- A. PROFILE IS THE FINAL POST CONSTRUCTION.
 - B. DRAWING IS NOT TO SCALE.



HYDRAULIC PROFILE
NOT TO SCALE

Jeffrey J. Yakel
C.E.S.
E=jeff.yakel@jacobs.com,
O=Jacobs, CN=Jeffrey J.
Yakel
2026.10.09
12:22:24-04'00"

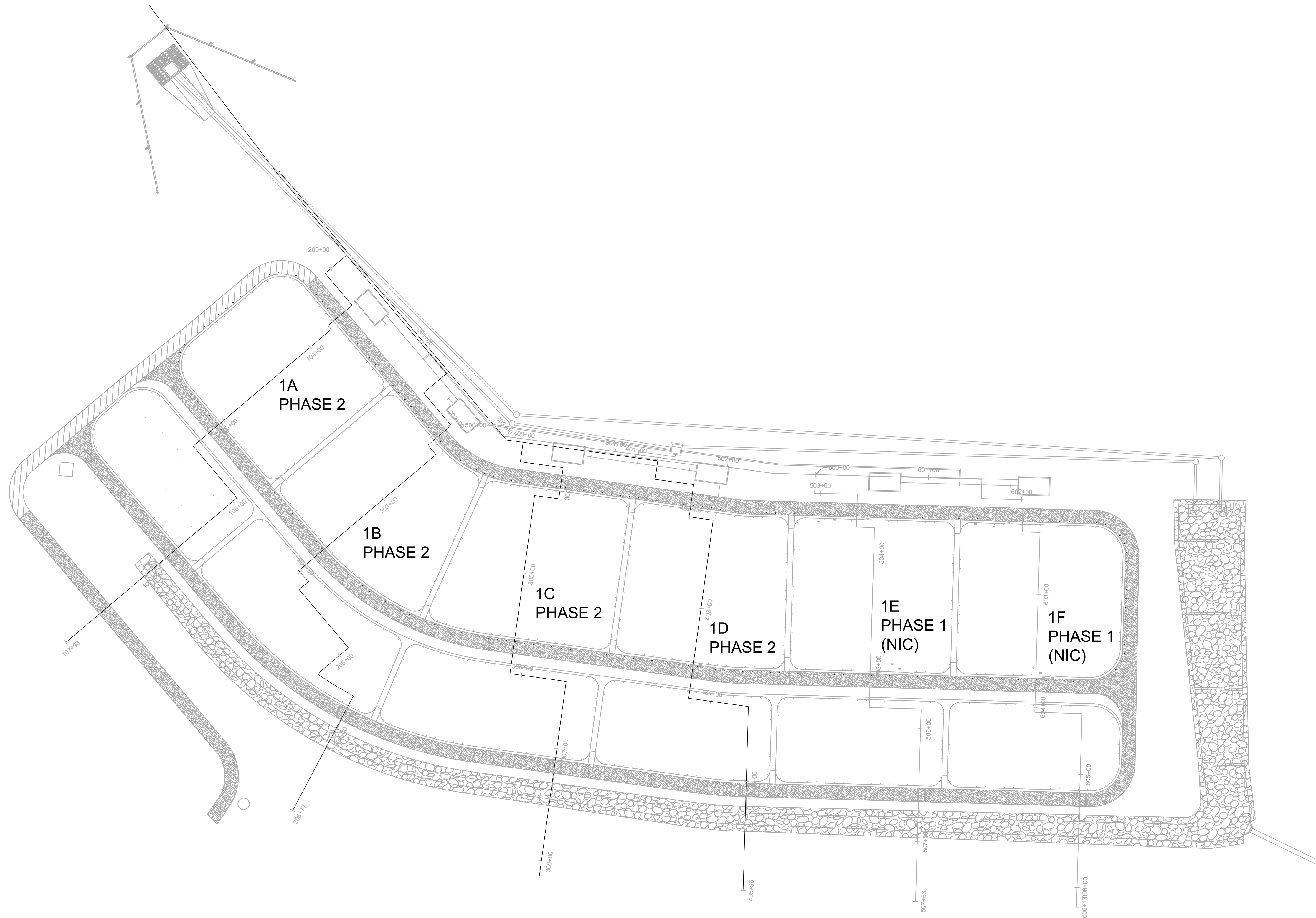
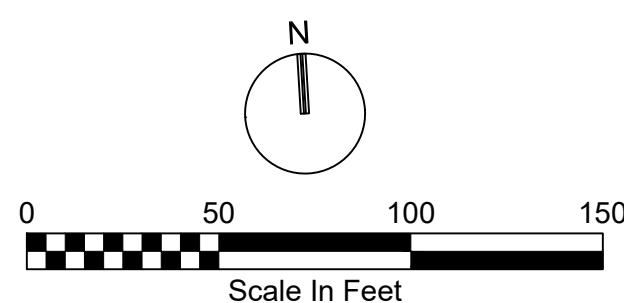
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KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A,1B,1C & 1D
HYDRAULIC PROFILE

PROJECT NO.
2250383
SHEET NO.
C-002



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KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
OVERALL
SITE PLAN

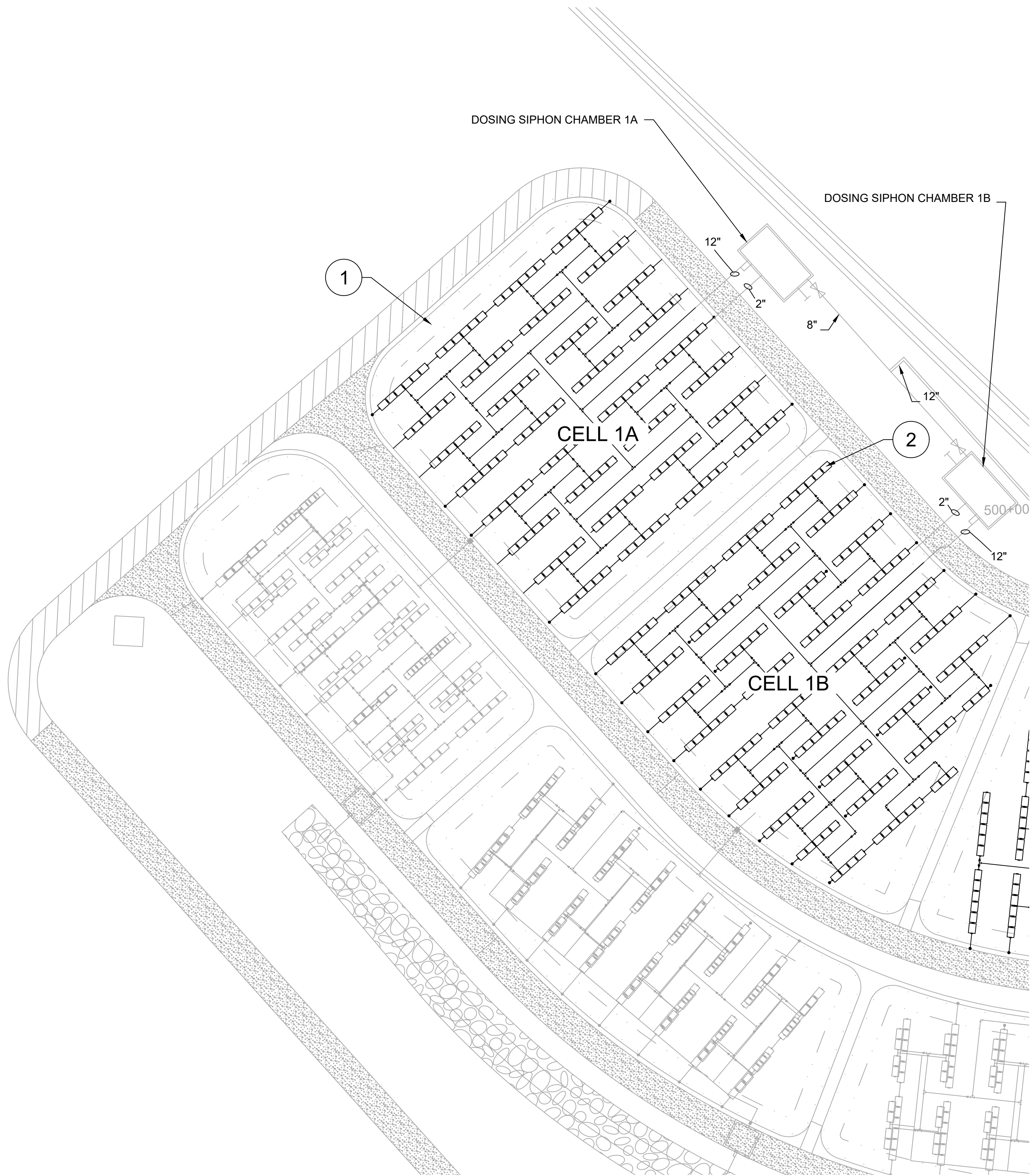
PROJECT NO.
2250383

SHEET NO.
C-100



Jeffrey J. Yakei
C.E.S.
E=jeff.yakei@jacobs.com
O=Jacobs, CN=Jeffrey J.
Yakei
2026.10.09
12:22:45-0400

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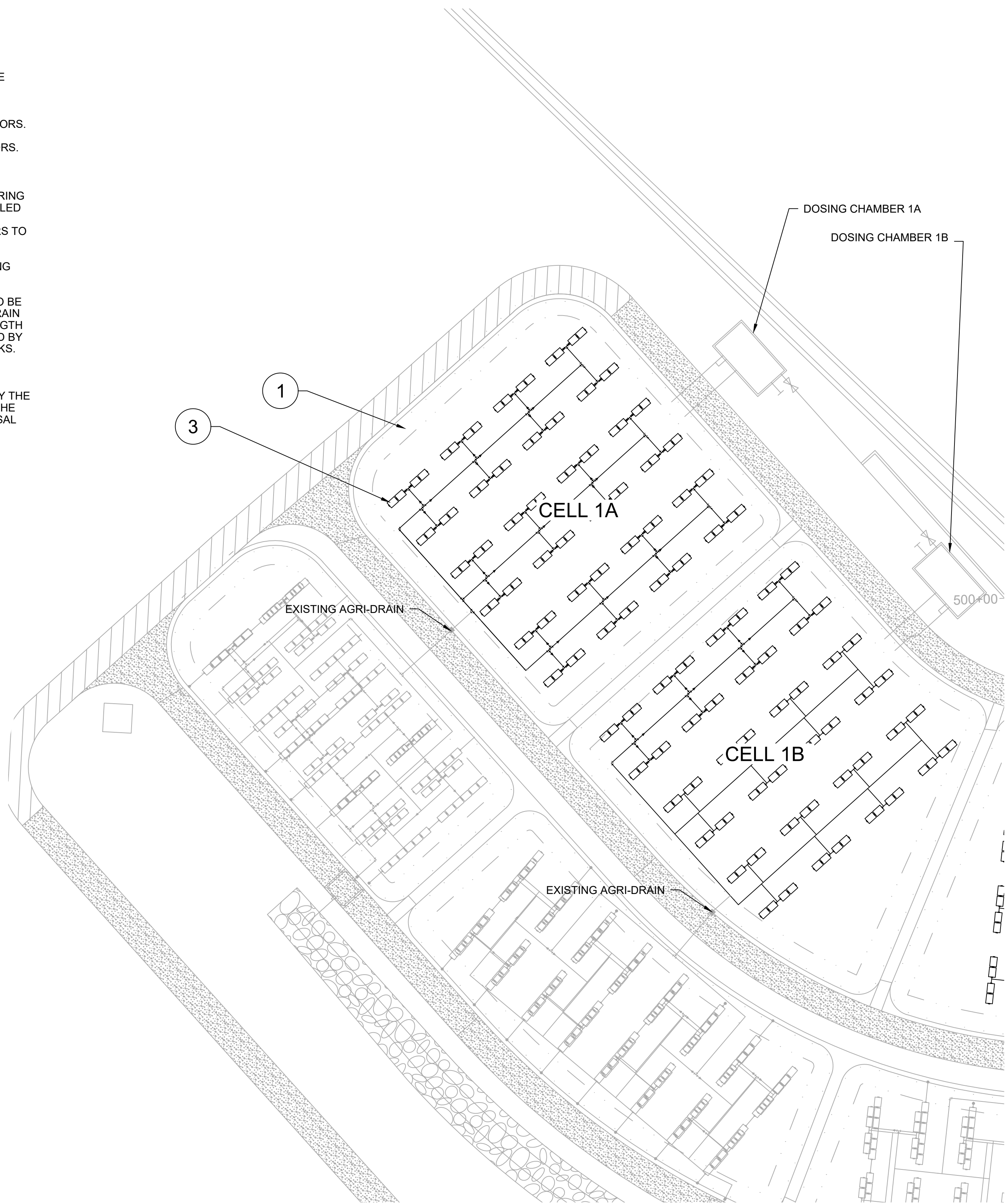


DISTRIBUTION PIPING SYSTEM
1"=30'

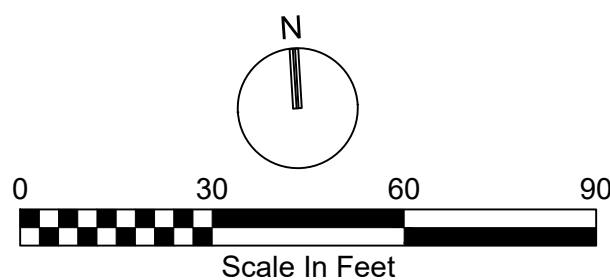
KEYNOTE

1. REMOVE MEDIA AND UNDERLYING GEOTEXTILE COMPLETELY. PROTECT CLAY LINER DURING REMOVAL ACTIVITIES.
2. REMOVE DISTRIBUTION PIPING AND INFILTRATORS.
3. REMOVE COLLECTION PIPING AND INFILTRATORS.

- NOTE:
- A. EXISTING MATERIALS THAT ARE REMOVED DURING DEMOLITION TO REMAIN ONSITE AND STOCKPILED AS SHOWN ON SHEET C-211.
 - B. 12-INCH PIPE FROM DOSING SIPHON CHAMBERS TO THE DISTRIBUTION PIPING WILL BE CUT BY CONTRACTOR TO ACCOMMODATE NEW DISTRIBUTION PIPING. PIPE OUT OF THE DOSING SIPHON CHAMBER 1A AND 1B WILL REMAIN IN PLACE.
 - C. COLLECTION PIPE OUT OF CELLS 1A AND 1B TO BE CUT BY CONTRACTOR NORTH OF THE AGRI-DRAIN THAT IS REMAINING IN PLACE. REMAINING LENGTH OF COLLECTION PIPE MAIN TO BE DETERMINED BY CONTRACTOR TO ACCOMMODATE NEW R-TANKS.
 - D. 2-INCH DRAINAGE PIPE FROM DOSING SIPHON CHAMBER WILL NOT BE DEMOLISHED.
 - E. ALL PIPING WILL NEED TO BE SAMPLED AND ANALYZED FOR WASTE CHARACTERIZATION BY THE ENGINEER PRIOR TO BEING REMOVED FROM THE SITE PER SPECIAL PROVISION - WASTE DISPOSAL



COLLECTION PIPING SYSTEM
1"=30'



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KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A & 1B
DEMOLITION PLAN

PROJECT NO.
2250383
SHEET NO.
C-101



Jeffrey J. Yakel
C.E.S.
E=jeff.yakel@jacobs.com
O=Jacobs, CN=Jeffrey J. Yakel
2026.10.09
12:23:11-04'00"



- NOTE:

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MAINTENANCE, PHASE 2
CELLS 1C & 1D
DEMOLITION PLAN

PROJECT NO.
2250383

SHEET NO.
C-102



Jeffrey J. Yakel
C=US,
E=jeff.yakel@jacobs.com
O=Jacobs, CN=Jeffrey J.
Yakel
2026.10.09 12:23:41-04



WOOD CHIPS

✓ GABION WALL

— WOODCHIPS

WOOD CHIPS

CELL 1B

GABION WALL

3" - 6" CLEAN CRUSHED ROCK
AROUND SPLASH PAD (12" WIDE x 6" HIGH)

R-TANKS

3" - 6" CLEAN CRUSHED ROCK BACKFILL

R-TANKS

A

A / C-5'



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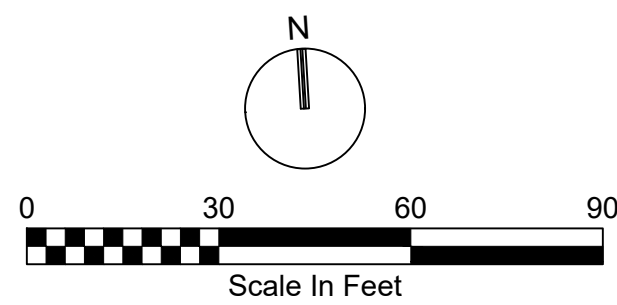
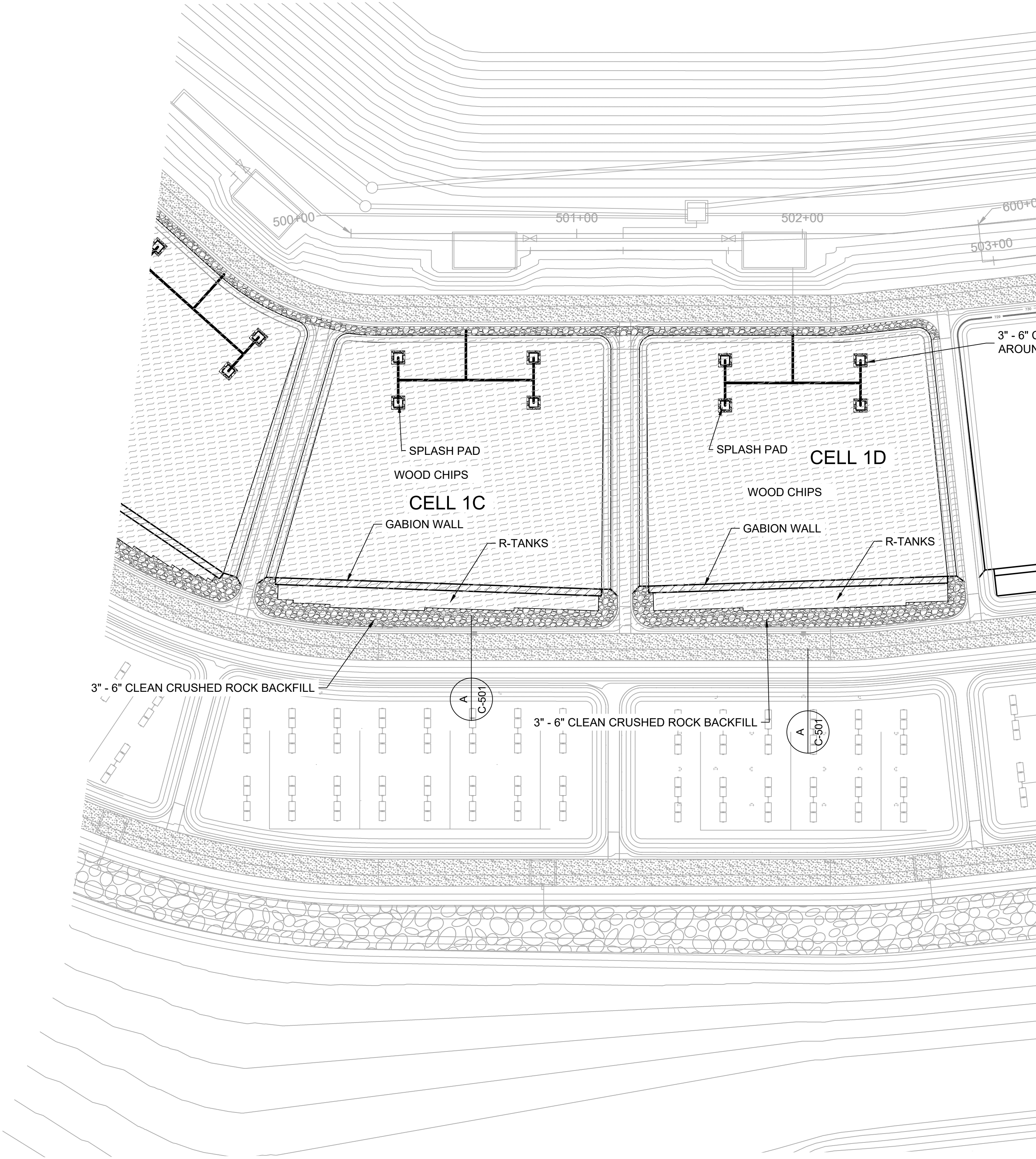
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KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A & 1B
GRADING PLAN

SHEET NO.
C-103



Jeffrey J. Yakel
C=US,
E=jeff.yakel@jacobs.com,
O=Jacobs, CN=Jeffrey J.
Yakel
2026.10.09
12:24:05-04'00'

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C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1C & 1D
GRADING PLAN

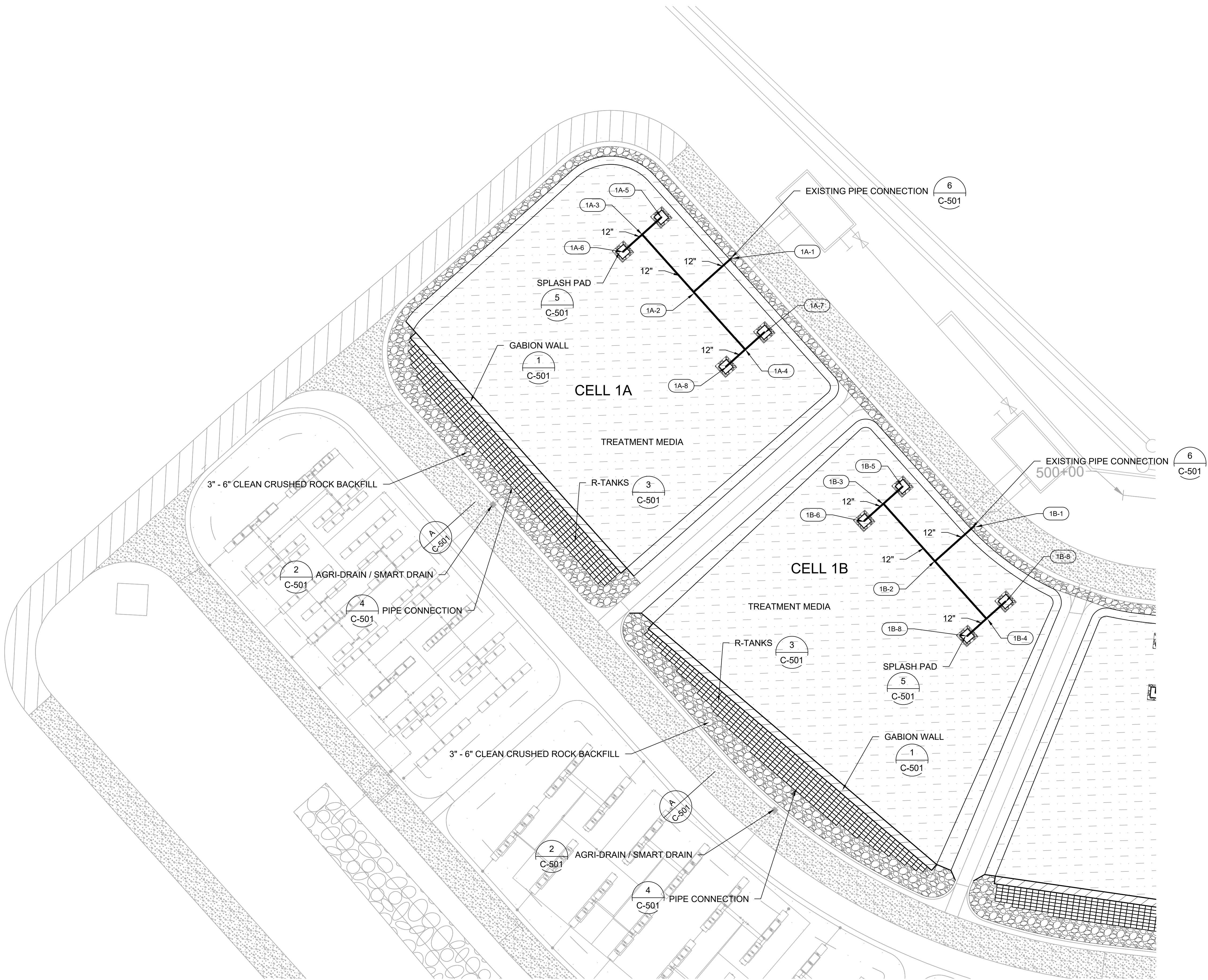
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2250383

SHEET NO.
C-104



Jeffrey J. Yakel
C.E.S.
E:jeff.yakel@jacobs.com,
O:Jacobs, CN:Jeffrey J.
Yakel
2026.10.09
12:24:31-04'00"

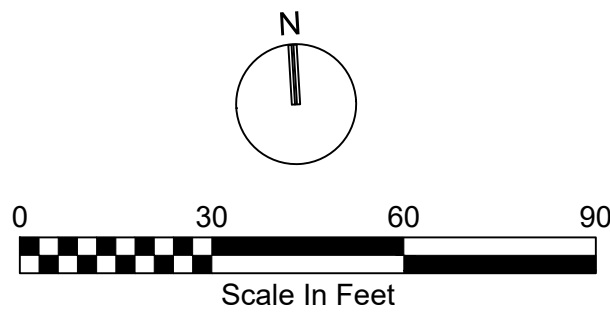
- NOTES:
1. NEW DISTRIBUTION PIPING WILL CONNECT TO THE EXISTING 12-INCH PIPE THAT REMAINS IN PLACE OUT OF THE EXISTING DOSING SIPHON CHAMBER.
 2. FOR PIPING PROFILES SEE DWG. C-201.
 3. SIPHON AND DOSING SIPHON CHAMBERS SHALL BE CLEANED OF DEBRIS AND OBSTRUCTIONS DURING CONSTRUCTION. PIPES LEADING FROM DOSING SIPHON CHAMBERS SHALL BE CHECKED AND OBSTRUCTIONS REMOVED.
 4. SEE DWG. C-103 FOR WOOD CHIP LIMITS.



STRUCTURE TABLE	
#	DESCRIPTION
1A-1	COUPLING TO EXISTING PIPE N: 507254.62 E: 12819923.47
1A-2	12" TEE N: 507241.89 E: 12819908.43
1A-3	12" TEE N: 507264.80 E: 12819889.06
1A-4	Null Structure N: 507218.99 E: 12819927.80
1A-5	90° BEND ROTATED UP N: 507271.26 E: 12819896.69
1A-6	90° BEND ROTATED UP N: 507258.35 E: 12819881.42
1A-7	90° BEND ROTATED UP N: 507225.44 E: 12819935.43
1A-8	90° BEND ROTATED UP N: 507212.53 E: 12819920.16

STRUCTURE TABLE	
#	DESCRIPTION
1B-1	COUPLING TO EXISTING N: 507147.84 E: 12820014.83
1B-2	12" TEE N: 507134.63 E: 12819999.16
1B-3	12" TEE N: 507157.54 E: 12819979.79
1B-4	12" TEE N: 507111.72 E: 12820018.53
1B-5	12" 90° BEND ROTATED UP N: 507163.99 E: 12819987.43
1B-6	12" 90° BEND ROTATED UP N: 507151.08 E: 12819972.16
1B-7	12" 90° BEND ROTATED UP N: 507118.17 E: 12820026.17
1B-8	12" 90° BEND ROTATED UP N: 507105.26 E: 12820010.90

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A & 1B
PIPING PLAN

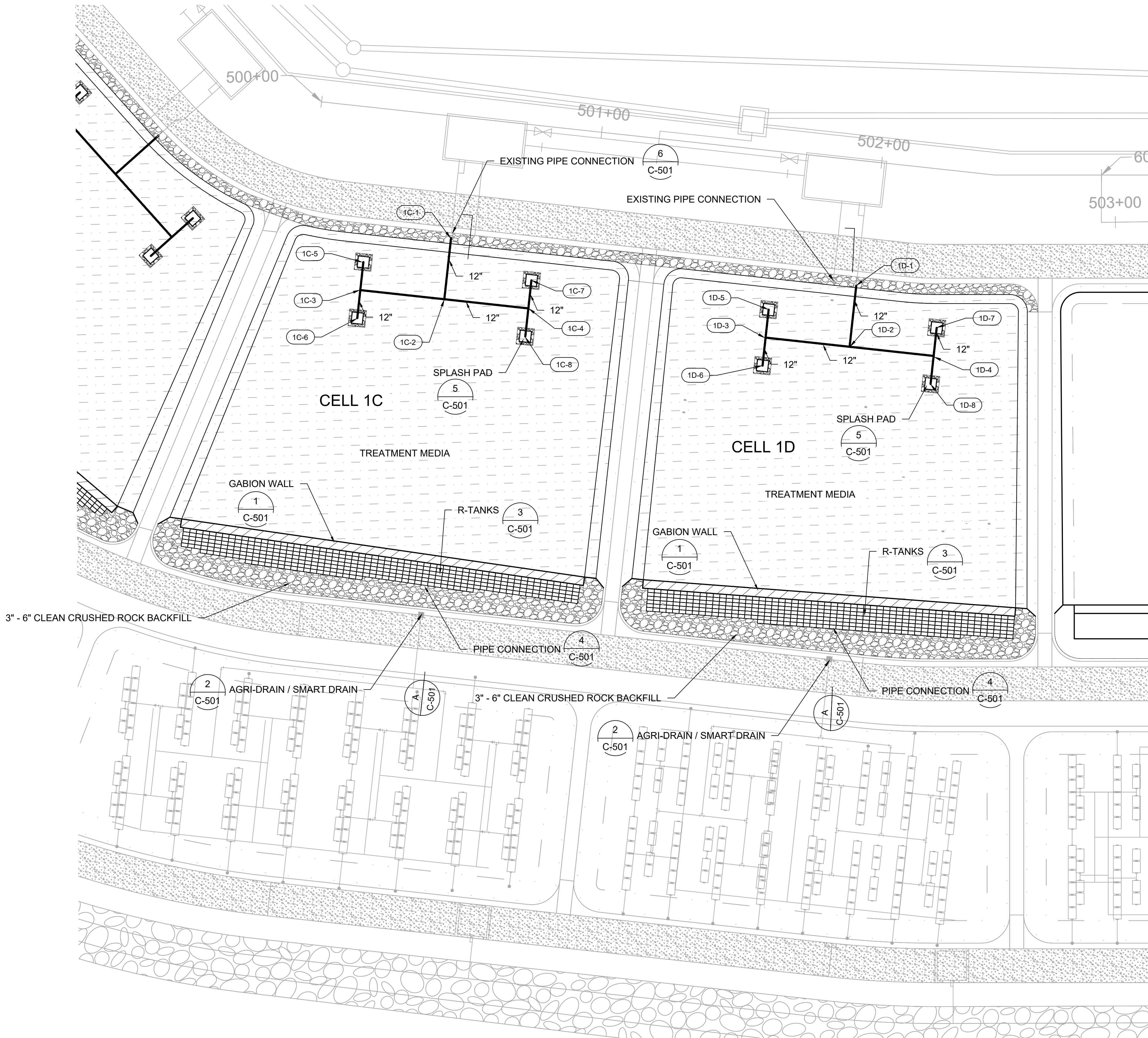
PROJECT NO.
2250383

SHEET NO.
C-105



Jeffrey J. Yakel
C.E.S.
E: jeff.yakel@jacobs.com
O: Jacobs, CN=Jeffrey J.
Yakel
2026.10.09
12-25-01-04-00

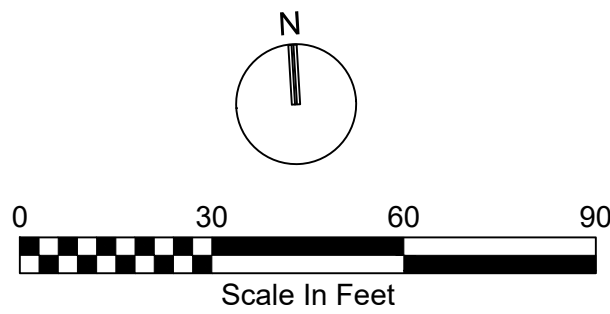
- NOTES:
1. NEW DISTRIBUTION PIPING WILL CONNECT TO THE EXISTING 12-INCH PIPE THAT REMAINS IN PLACE OUT OF THE EXISTING DOSING SIPHON CHAMBER.
 2. FOR PIPING PROFILES SEE DWG. C-202.
 3. SIPHON AND DOSING SIPHON CHAMBERS SHALL BE CLEANED OF DEBRIS AND OBSTRUCTIONS DURING CONSTRUCTION. PIPES LEADING FROM DOSING SIPHON CHAMBERS SHALL BE CHECKED AND OBSTRUCTIONS REMOVED.
 4. SEE DWG. C-104 FOR WOOD CHIP LIMITS.



STRUCTURE TABLE	
#	DESCRIPTION
1C-1	COUPLING TO EXISTING PIPE N: 507108.50 E: 12820117.58
1C-2	12" TEE N: 507086.90 E: 12820114.58
1C-3	12" TEE N: 507091.00 E: 12820084.86
1C-4	12" TEE N: 507082.80 E: 12820144.30
1C-5	90° BEND ROTATED UP N: 507100.90 E: 12820086.23
1C-6	90° BEND ROTATED UP N: 507081.09 E: 12820083.50
1C-7	90° BEND ROTATED UP N: 507092.70 E: 12820145.67
1C-8	90° BEND ROTATED UP N: 507072.89 E: 12820142.93

STRUCTURE TABLE	
#	DESCRIPTION
1D-1	COUPLING TO EXISTING PIPE N: 507087.62 E: 12820260.88
1D-2	12" TEE N: 507065.90 E: 12820257.88
1D-3	12" TEE N: 507070.00 E: 12820228.16
1D-4	12" TEE N: 507061.80 E: 12820287.60
1D-5	12" 90° BEND ROTATED UP N: 507079.91 E: 12820229.53
1D-6	12" 90° BEND ROTATED UP N: 507060.10 E: 12820226.80
1D-7	12" 90° BEND ROTATED UP N: 507071.71 E: 12820288.97
1D-8	12" 90° BEND ROTATED UP N: 507051.90 E: 12820286.24

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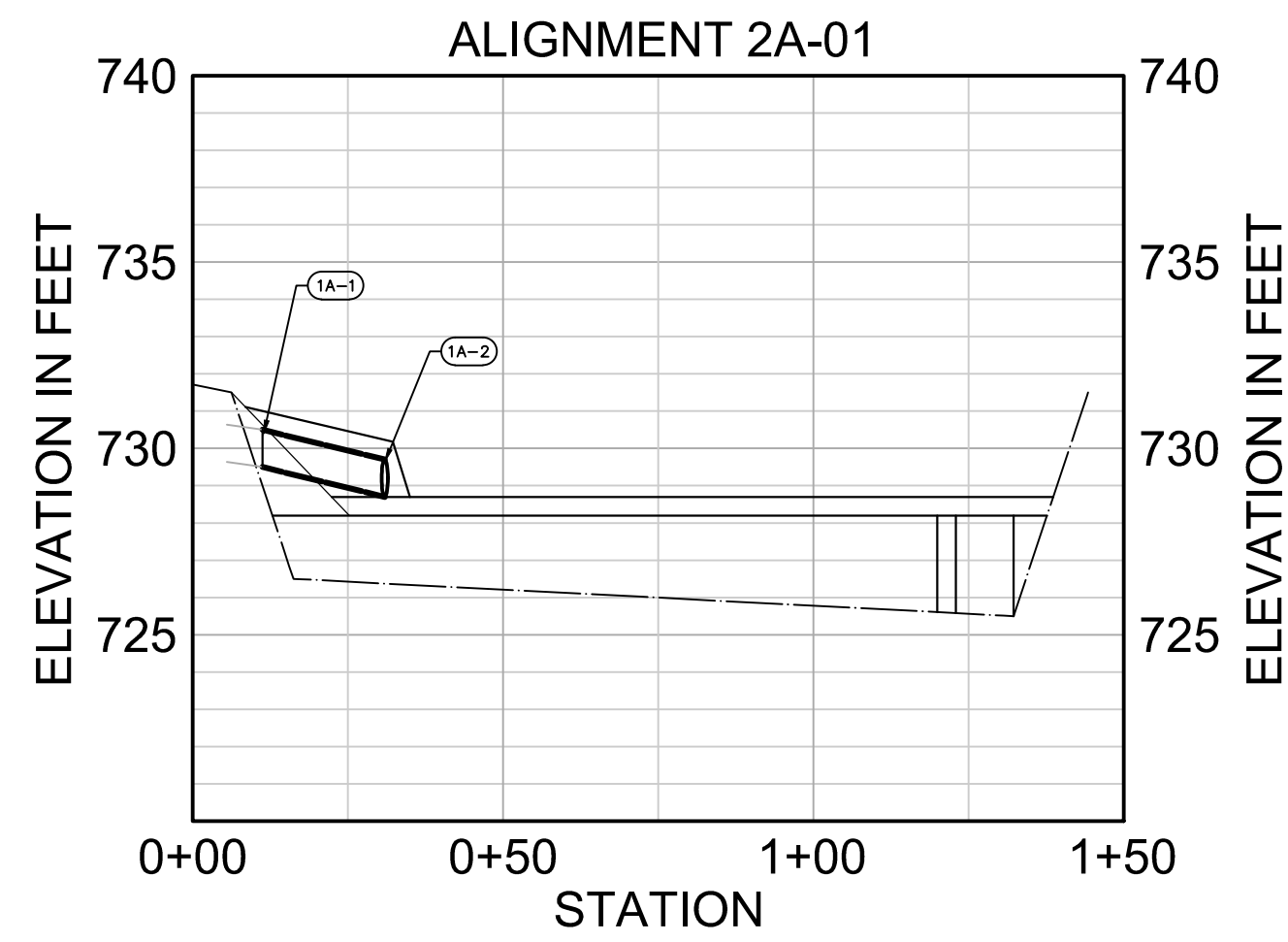
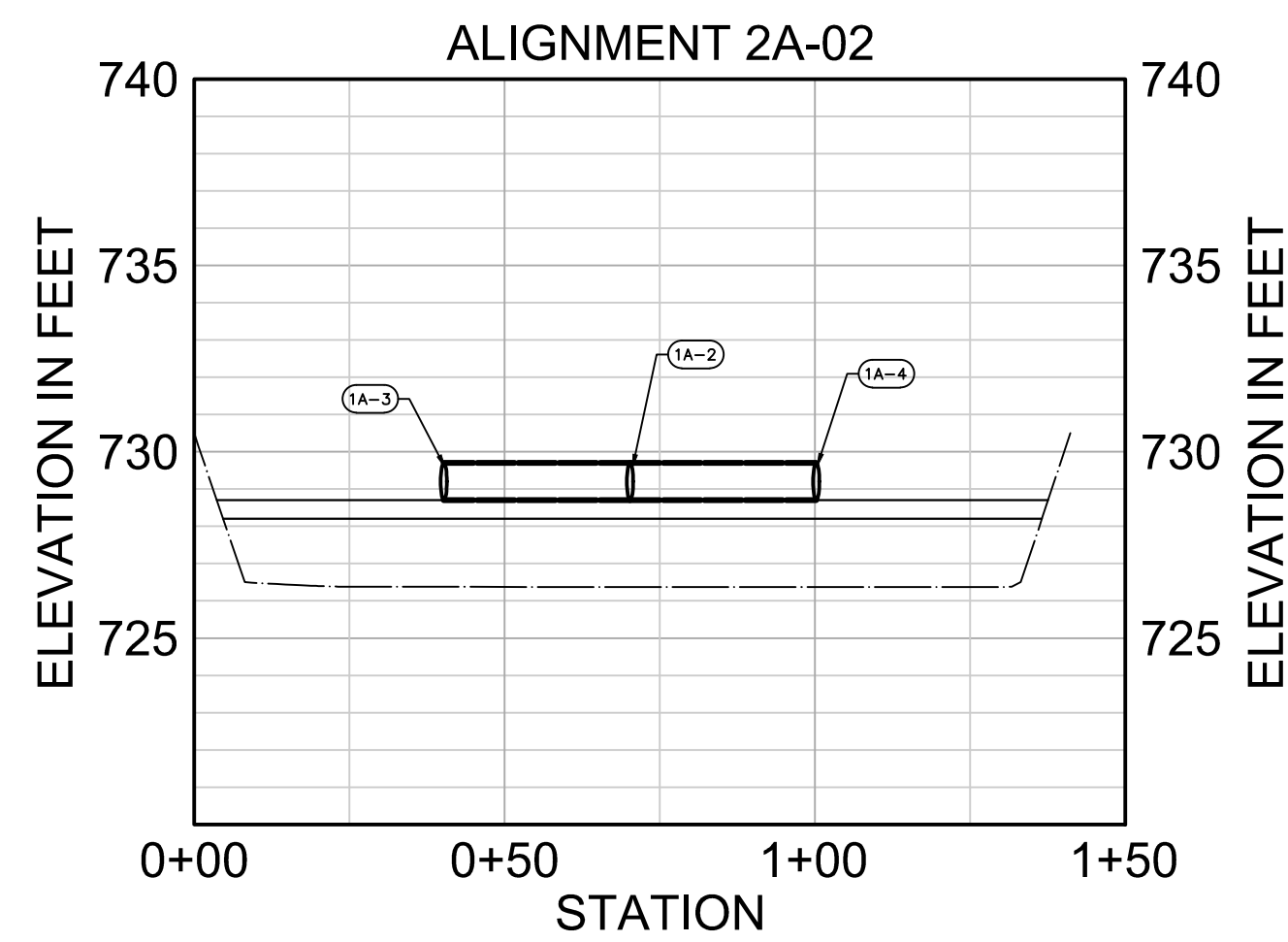
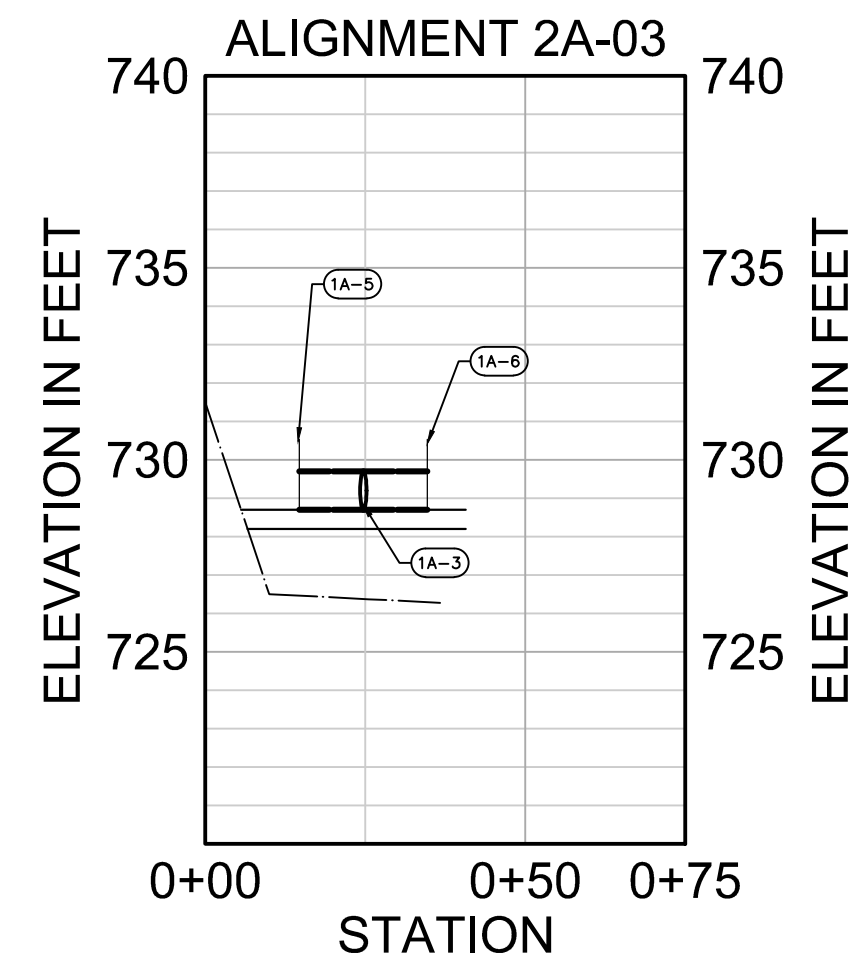
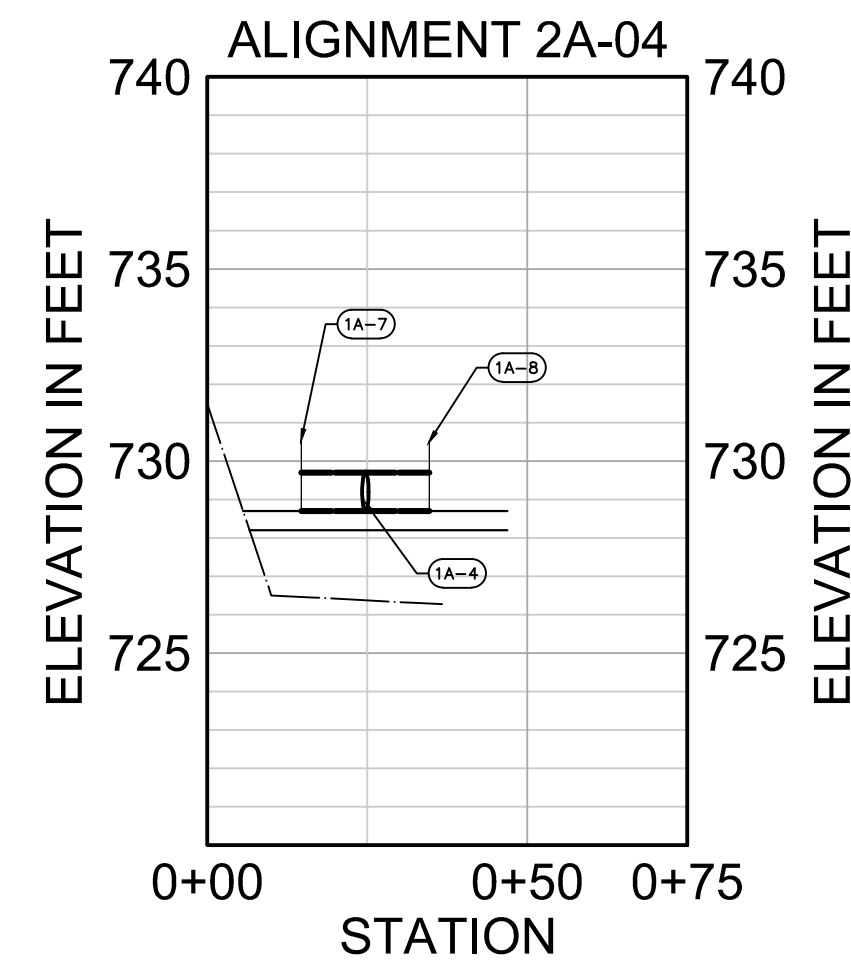
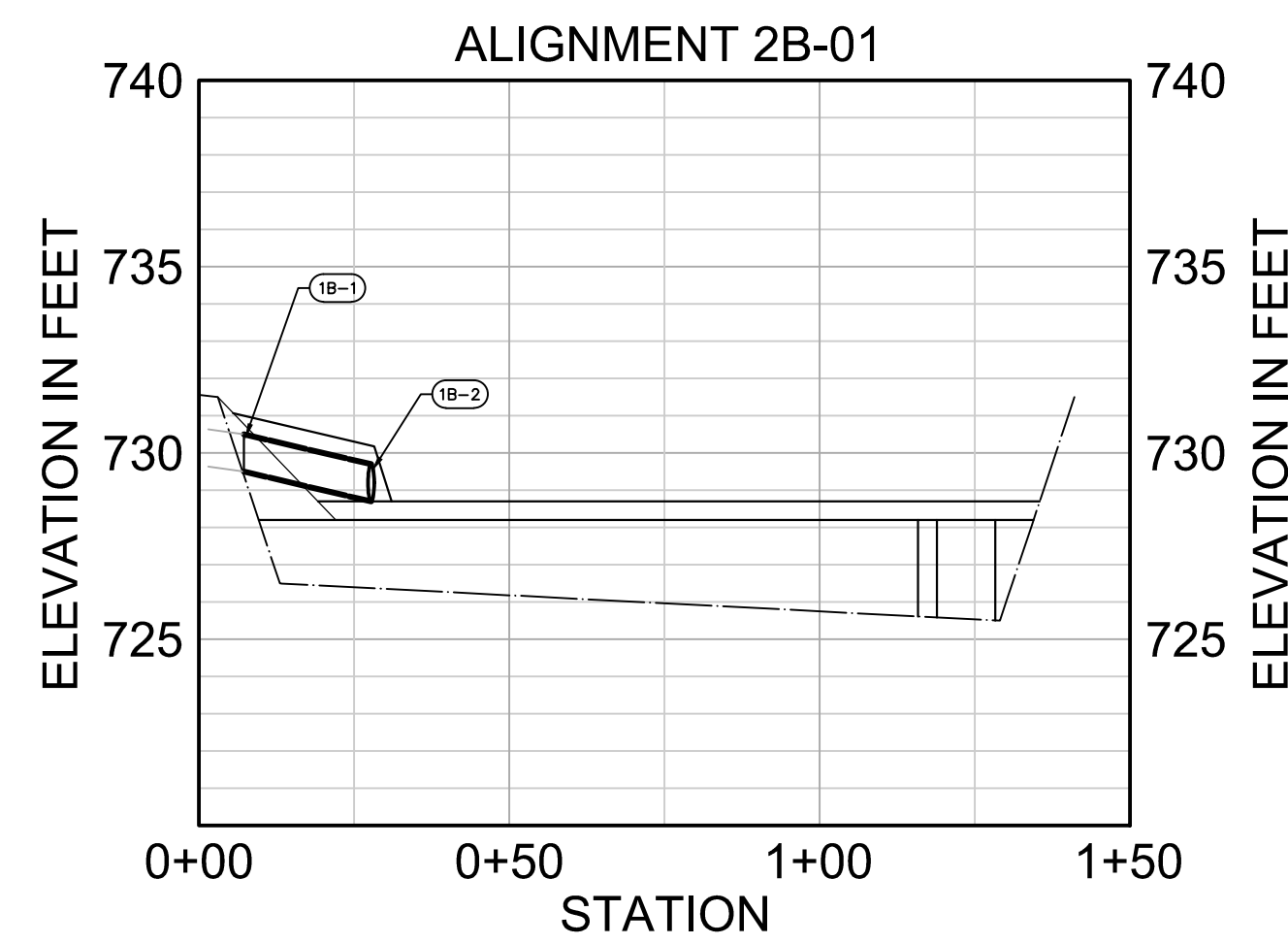
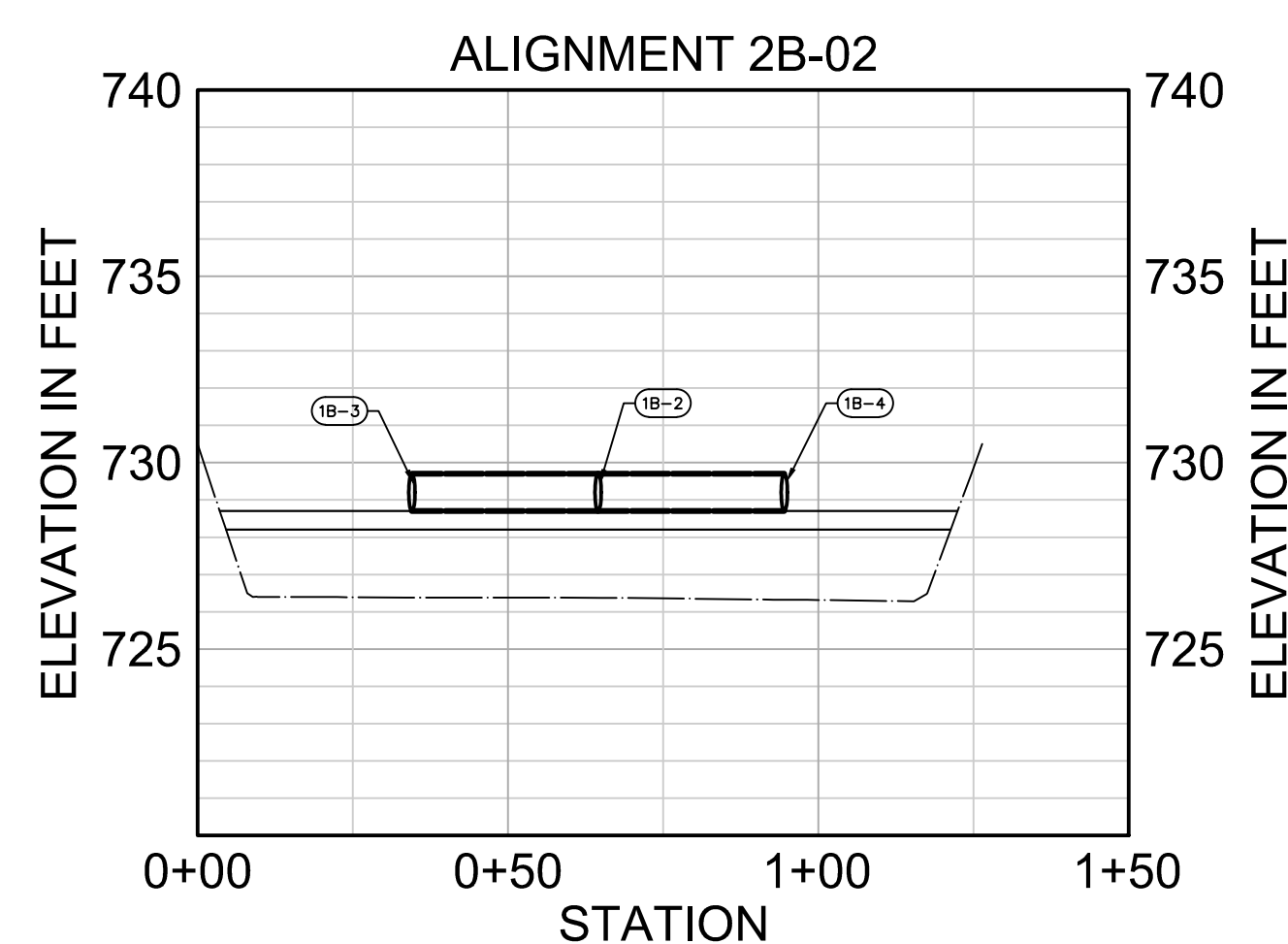
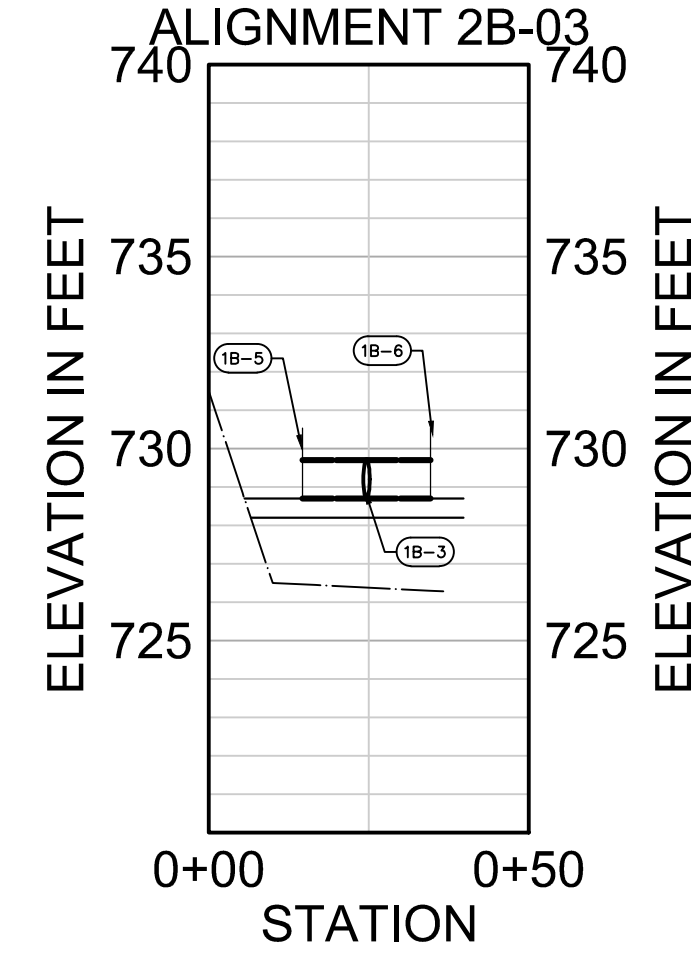
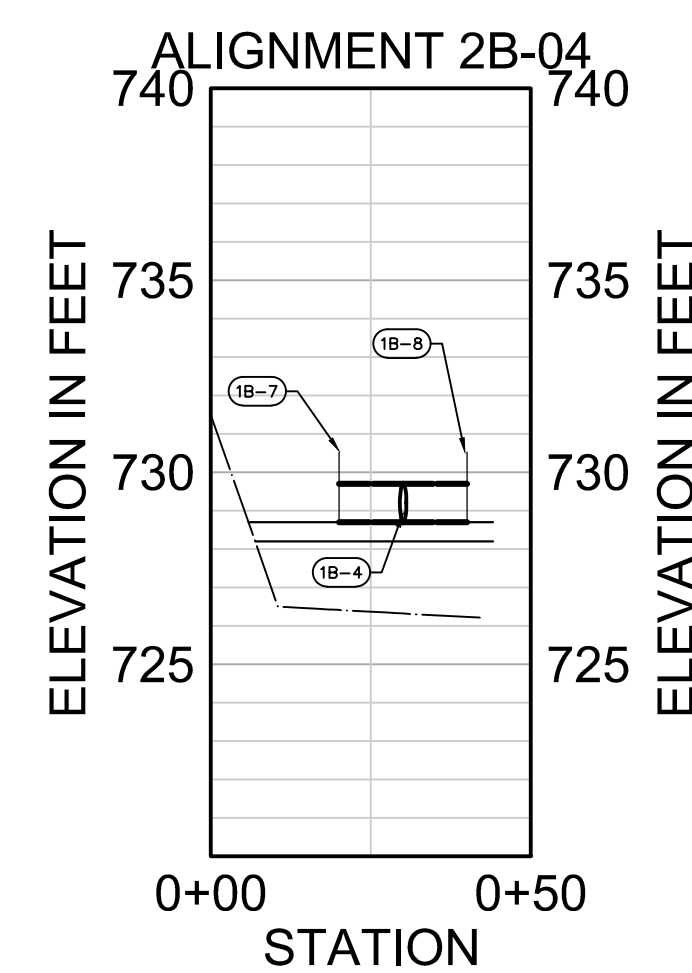
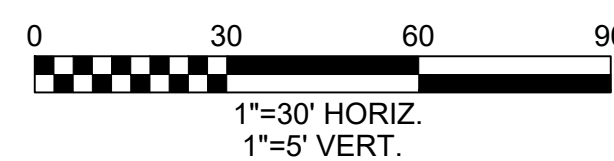
Jacobs

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1C & 1D
PIPING PLAN

PROJECT NO.
2250383
SHEET NO.
C-106



Jeffrey J. Yakel
C.E.S.
E: jeff.yakel@jacobs.com
O: Jacobs, CN=Jeffrey J. Yakel
2026.10.09
12:25:48-04'00"



NO.	REVISIONS	BY	DATE	DRAWN
				GFB
			10/09/2026	CHECKED VJ
			10/09/2026	

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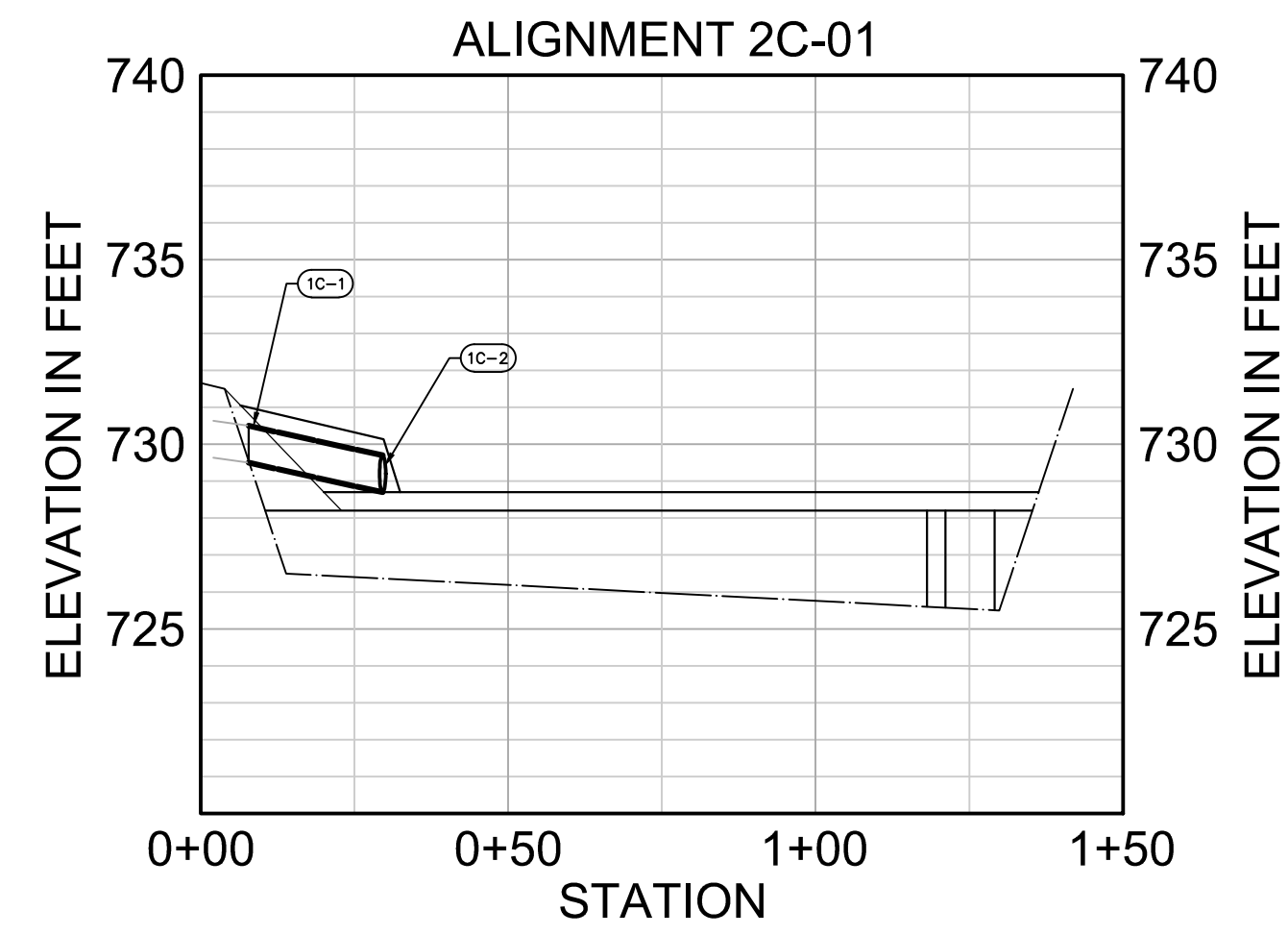
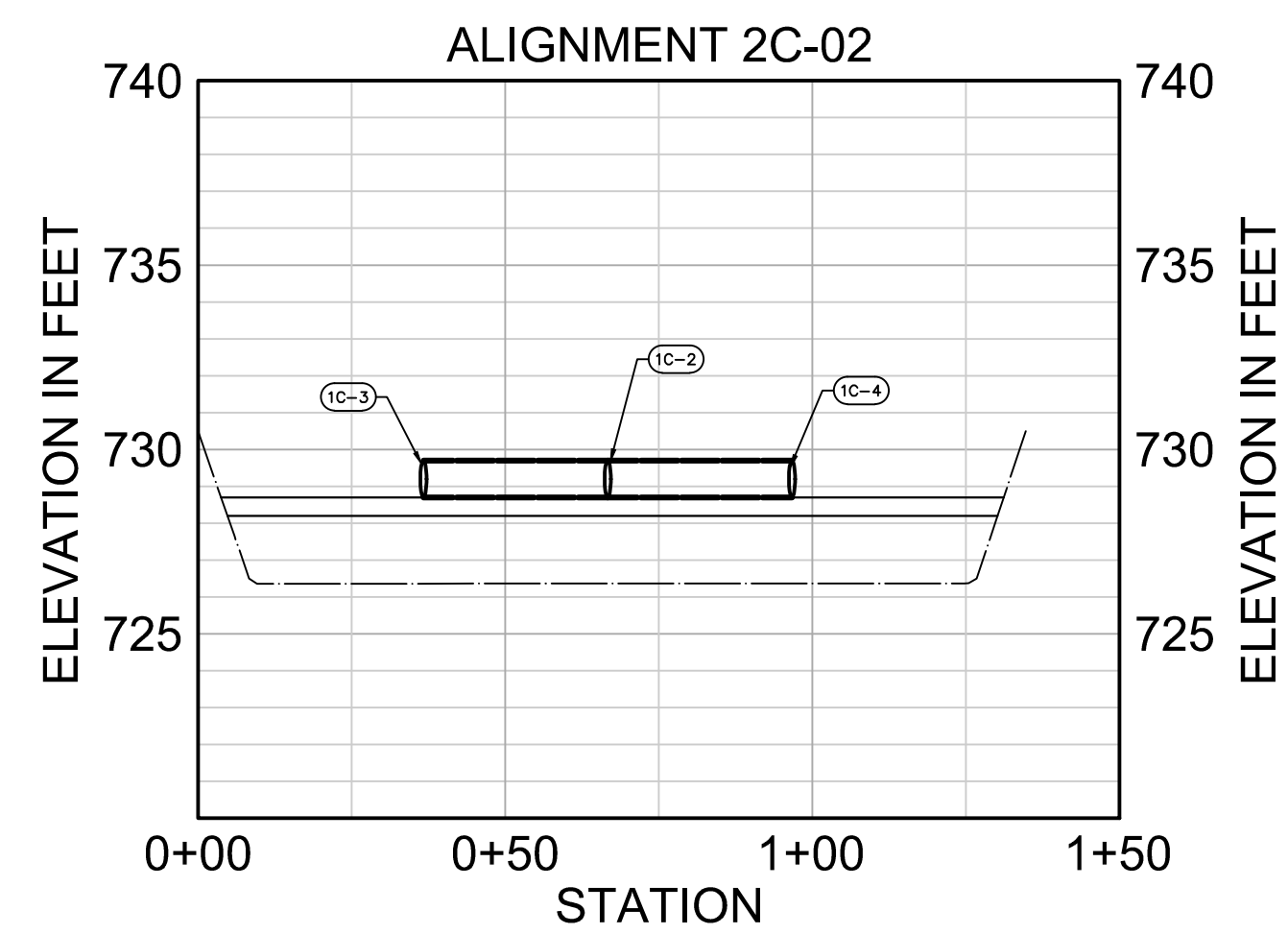
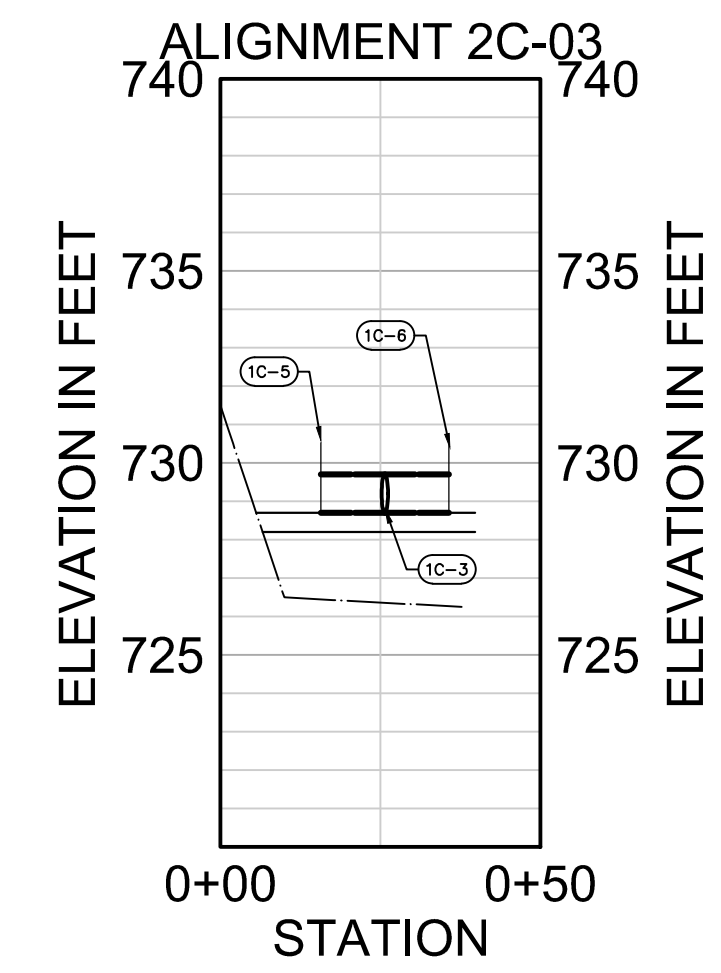
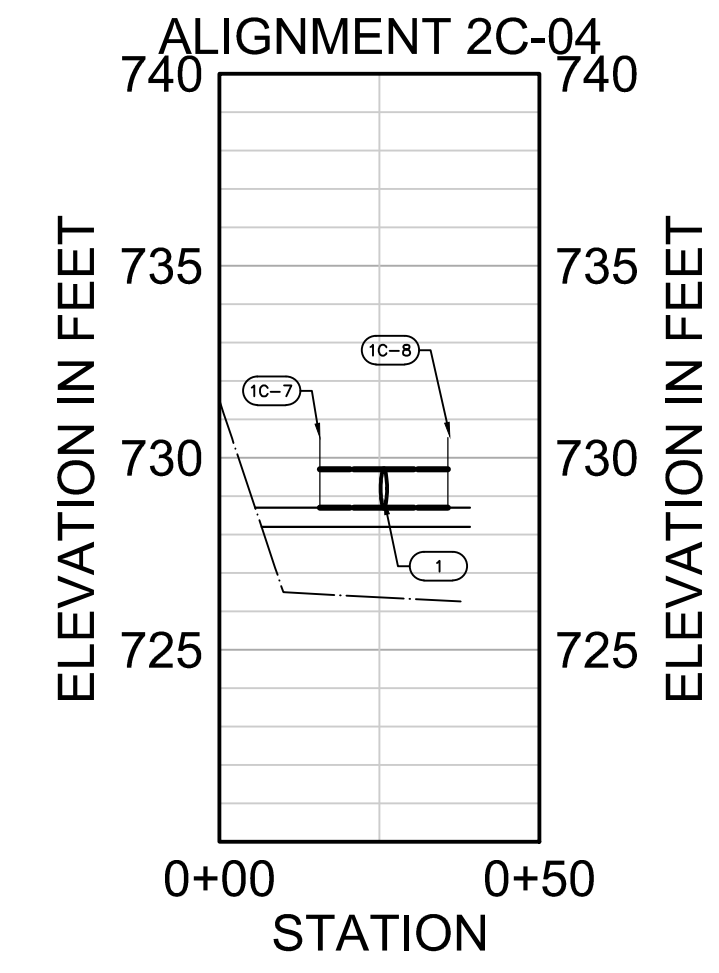
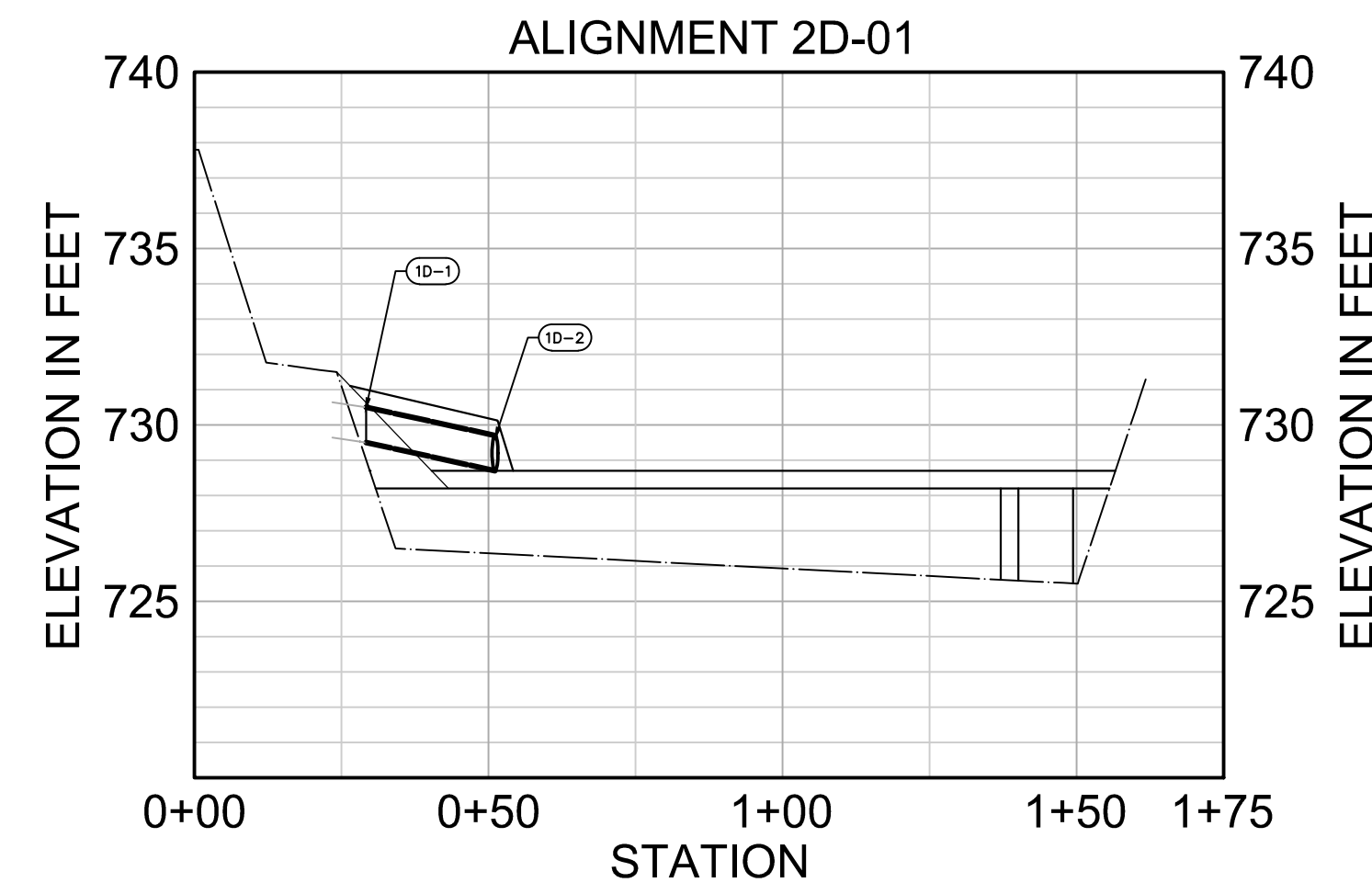
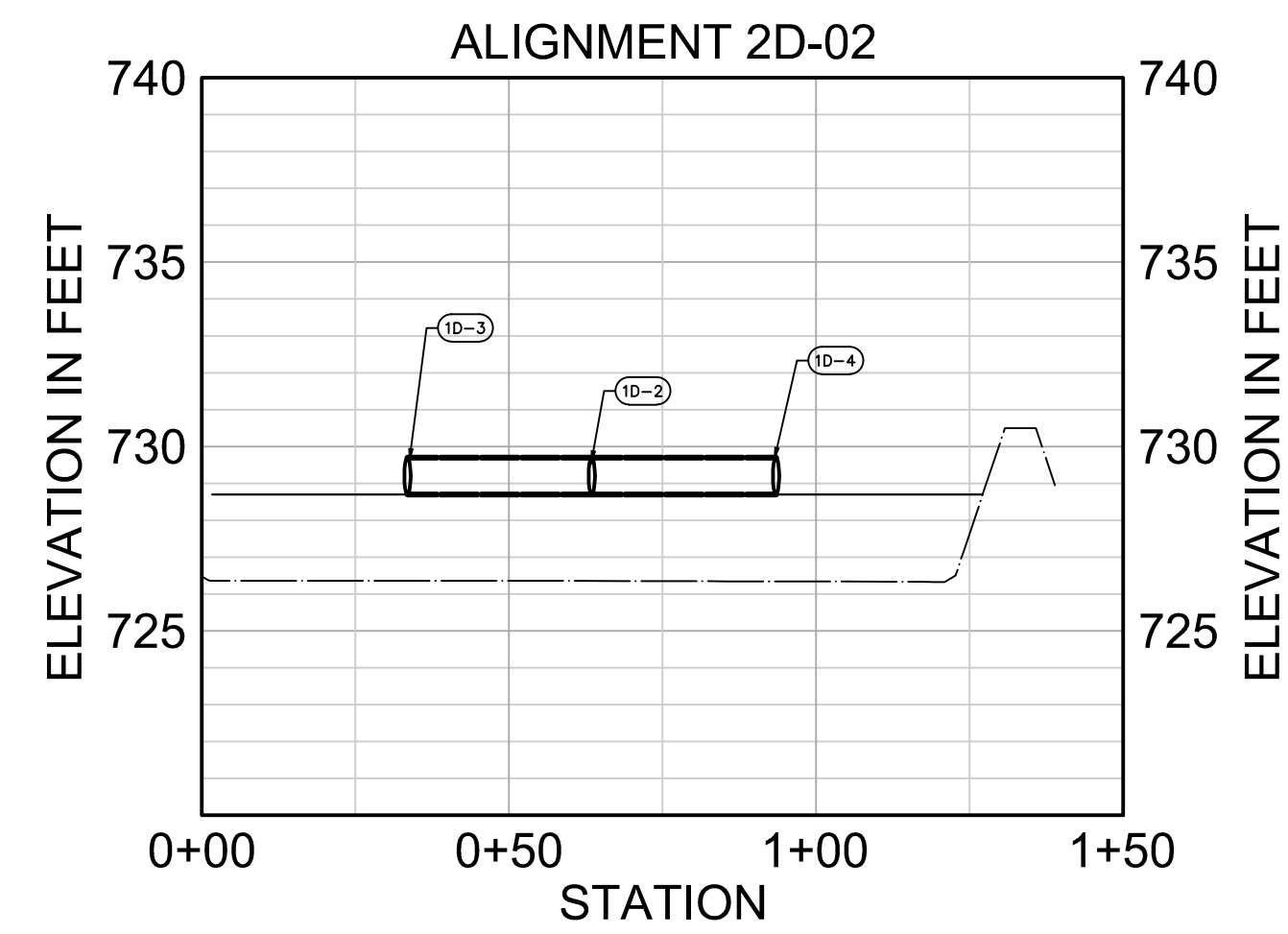
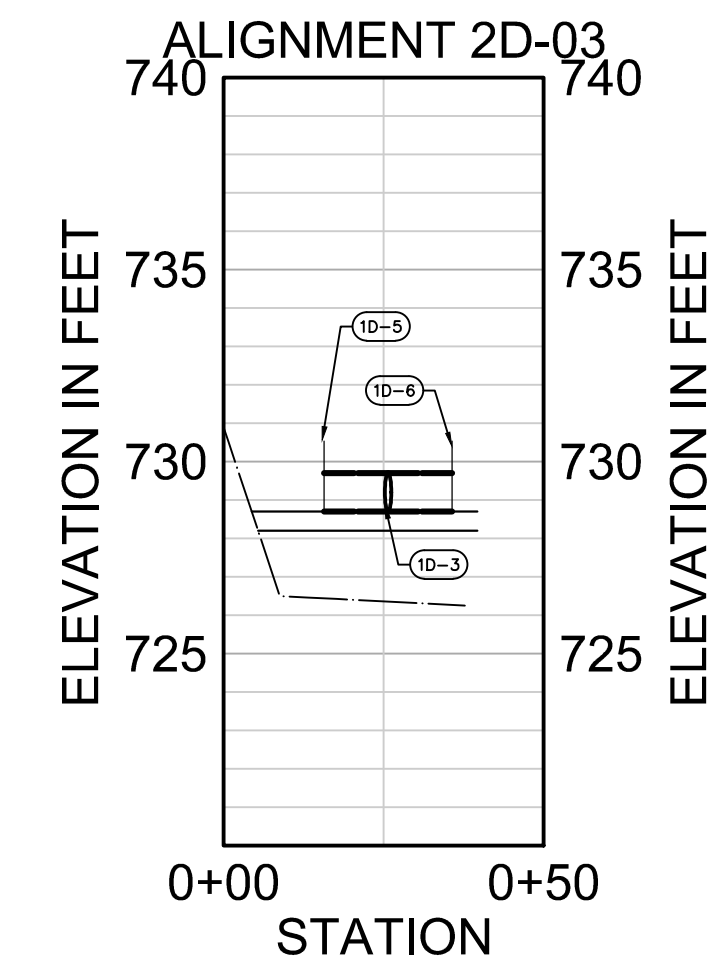
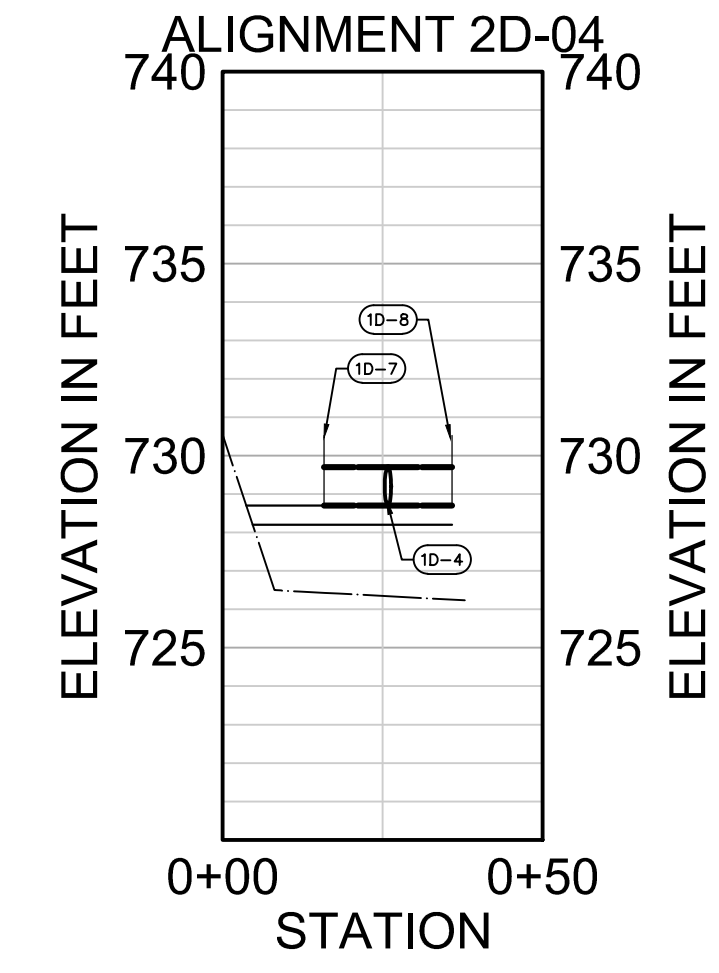
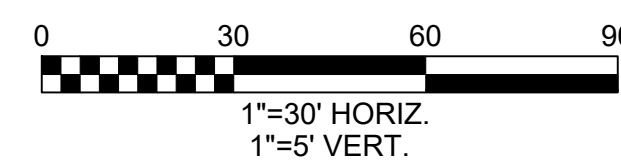
Jacobs

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A & 1B
PIPING PROFILES

PROJECT NO.
2250383

SHEET NO.
C-201

Jeffrey J. Yakel
C.O.S.
E=jeff.yakel@jacobs.com
O=Jacobs, C=Jeffrey J.
Yakel
2026.10.09
12:26:10-04'00"



NO.	REVISIONS	BY	DATE	DRAWN
				GFB
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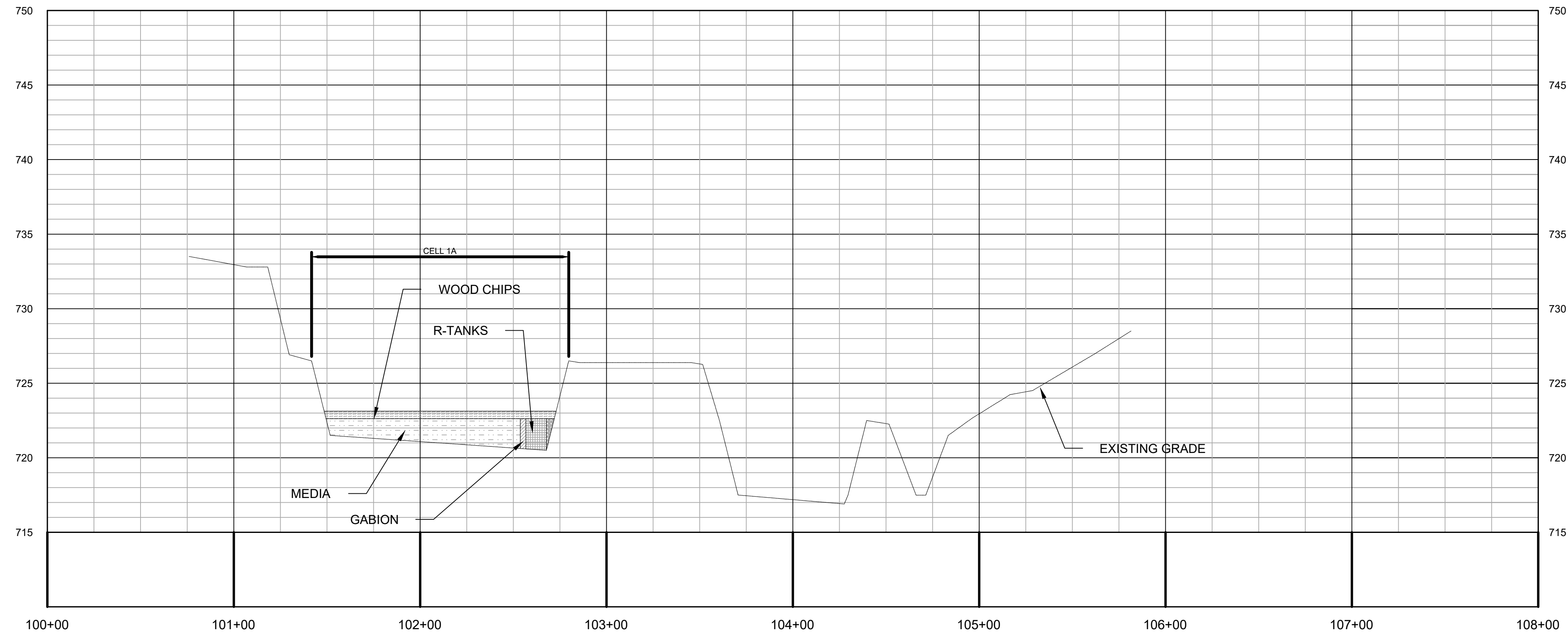
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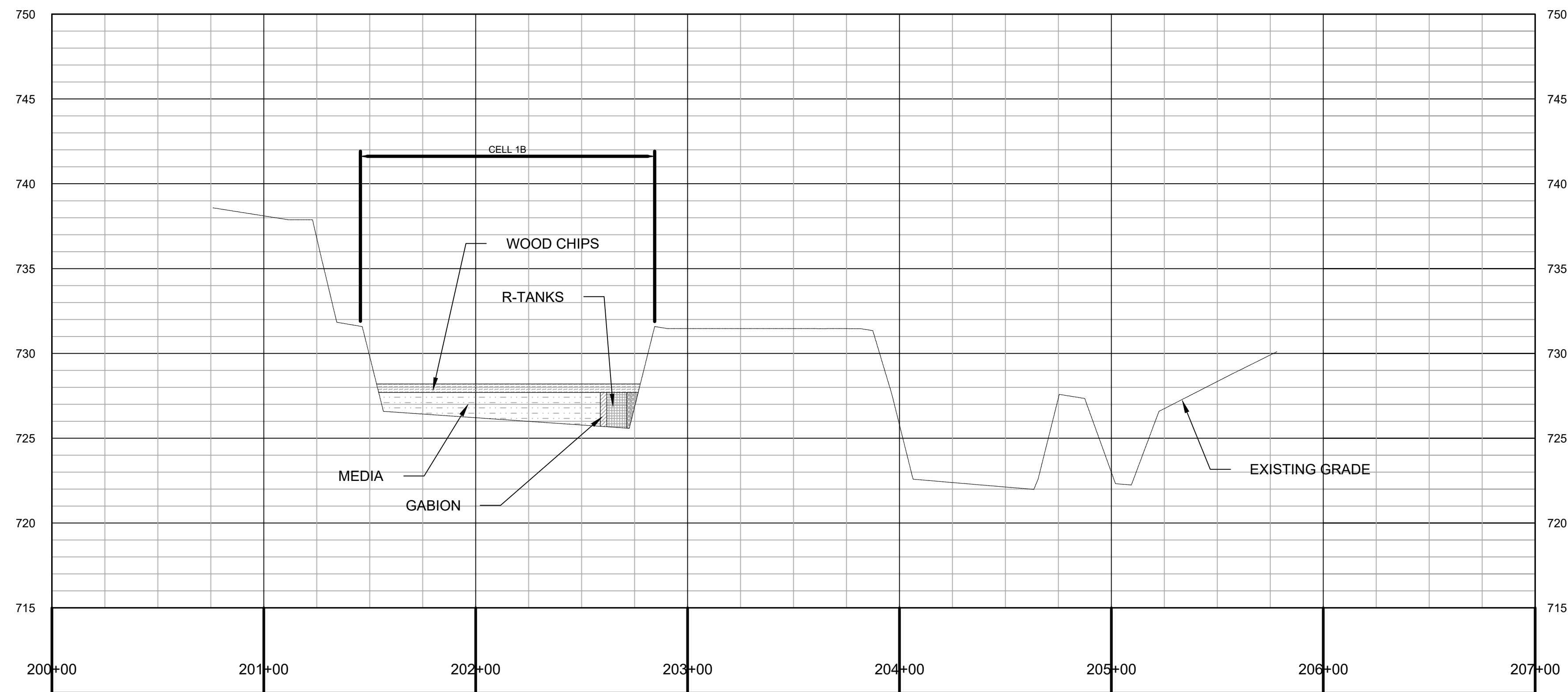
GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1C & 1D
PIPING PROFILES

PROJECT NO.
2250383
SHEET NO.
C-202

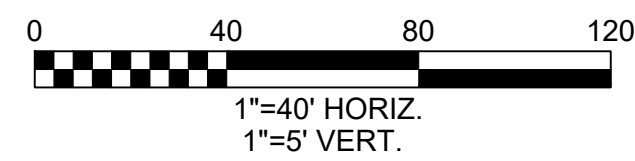
Jeffrey J. Yakei
C.E.S.
E=jeff.yakei@jacobs.com
O=Jacobs, C=Jeffrey J.
Yakei
2026.10.09
12:26:35-0400



PROFILE BASELINE A
1"=40'



PROFILE BASELINE B
1"=40'



NO.	REVISIONS	BY	DATE	DRAWN
				GFB
			DATE	10/09/2026
			CHECKED	VJ
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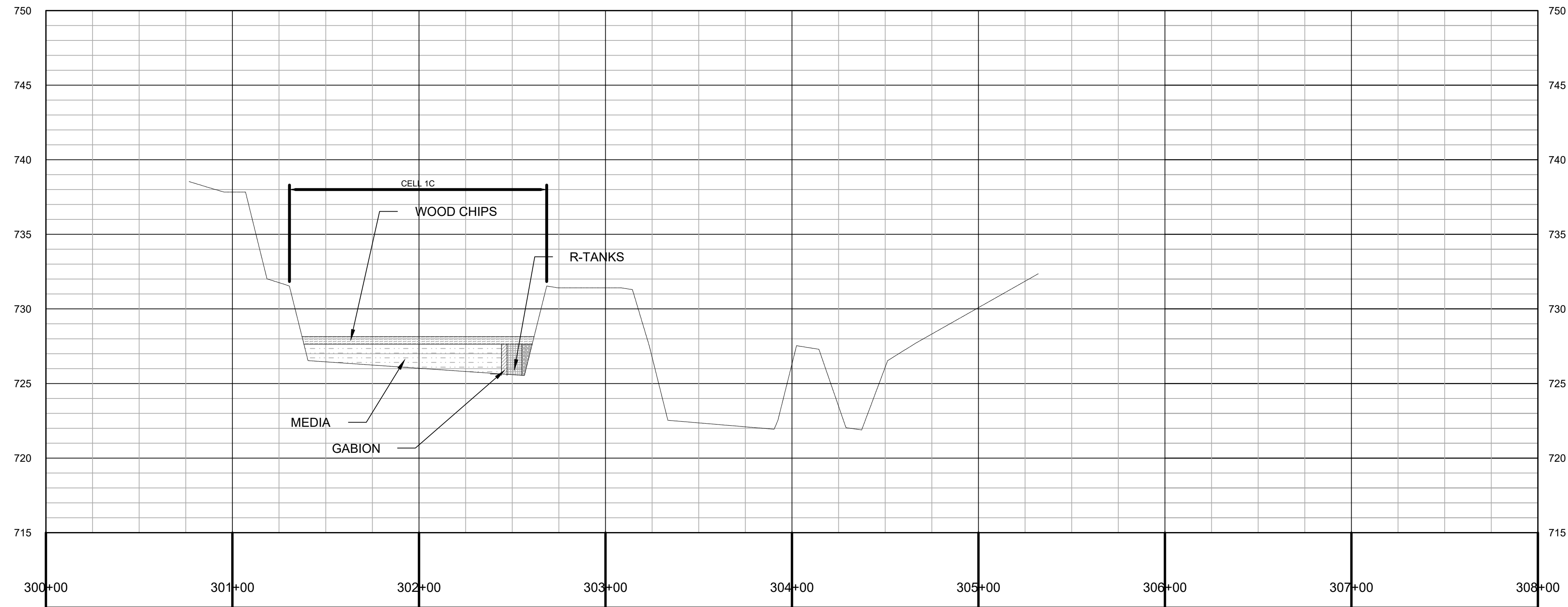
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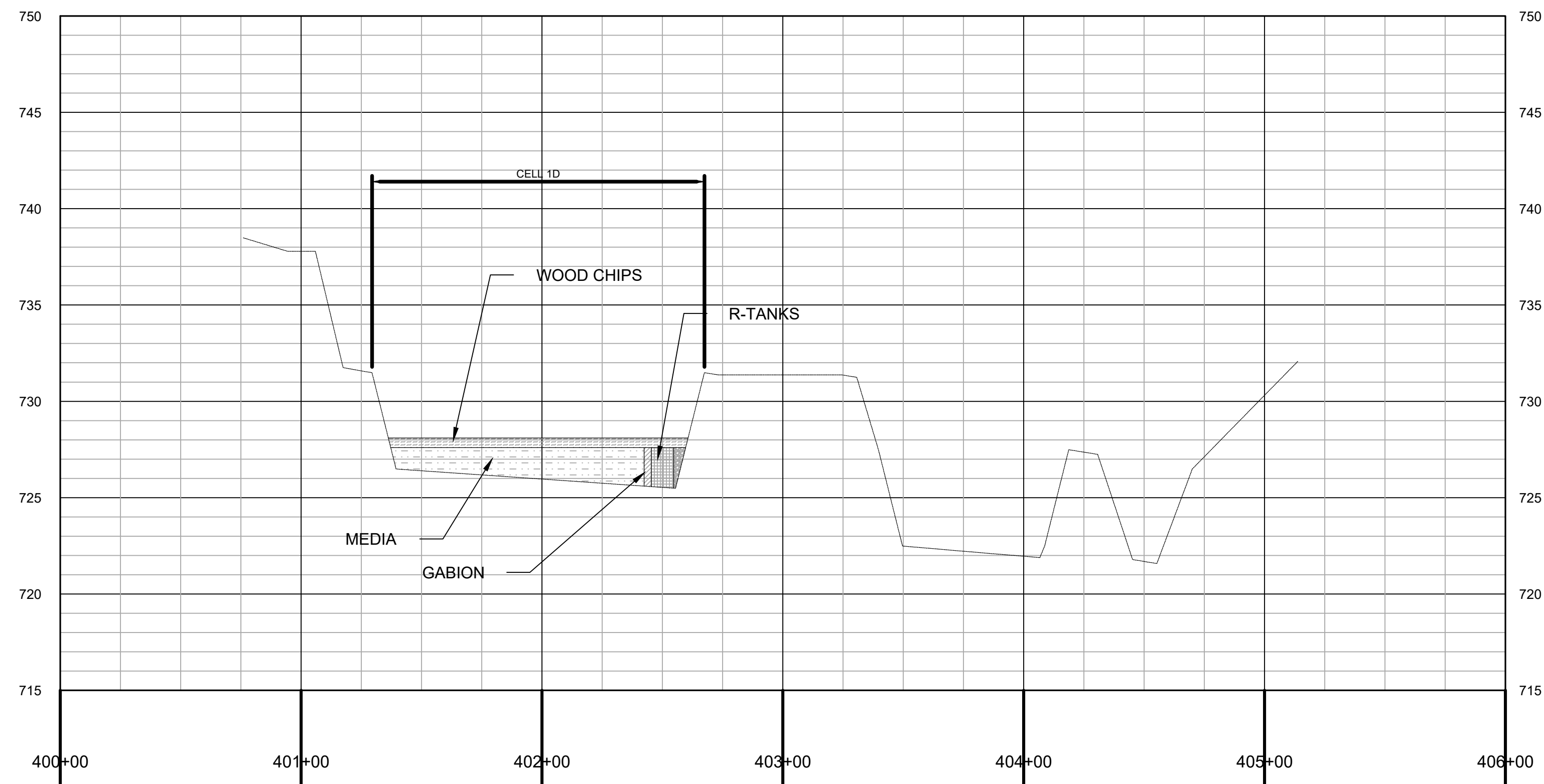
GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1A & 1B
PROFILE BASELINES A & B

PROJECT NO.
2250383
SHEET NO.
C-203

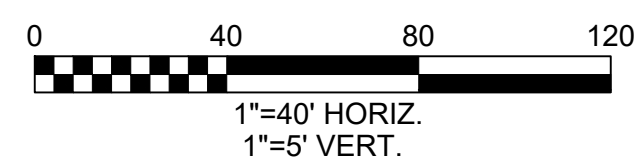
JEFFREY J. YAKEL
CIVIL ENGINEER
No. 3201054743
2026.10.09
12:26:59-04'00"



PROFILE BASELINE C
1"=40'



PROFILE BASELINE D
1"=40'



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				GFB
			DATE	10/09/2026
			CHECKED	VJ
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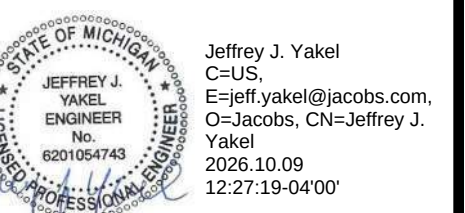
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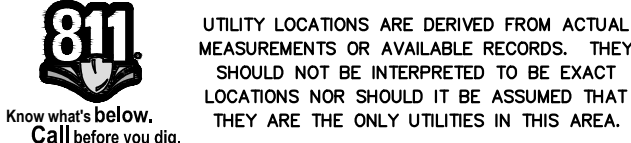
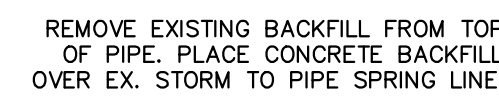
Jacobs

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2
CELLS 1C & 1D
PROFILE BASELINES C & D

PROJECT NO.
2250383

SHEET NO.
C-204

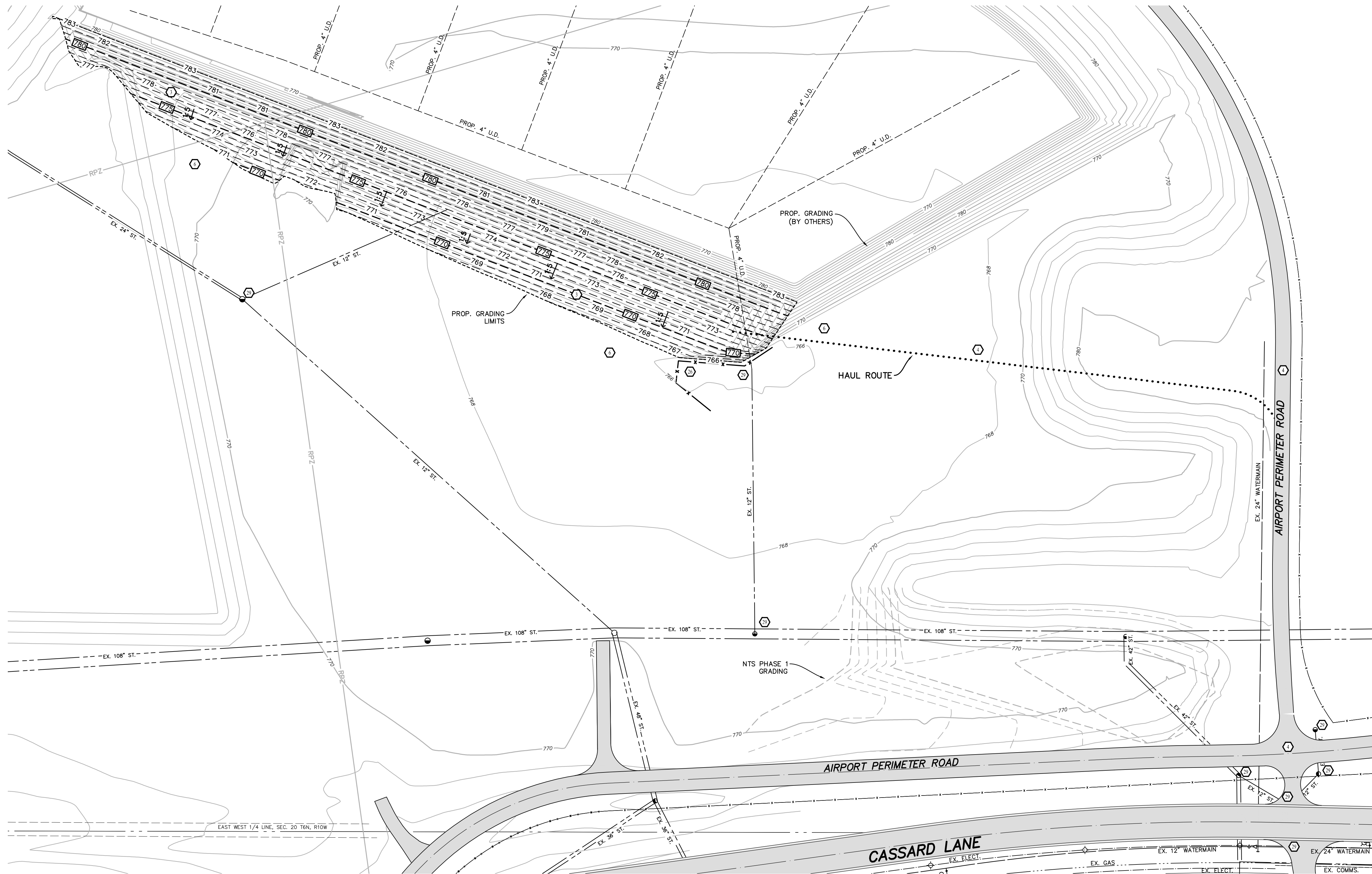




NOT TO SCALE

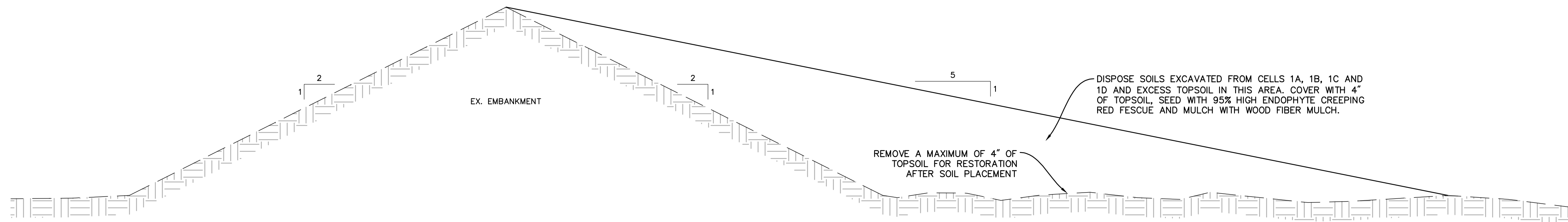
- GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

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GRADING PLAN

SCALE : 1" = 50'



DISPOSAL AREA TYPICAL SECTION

NOT TO SCALE

SOIL EROSION CONTROL KEY INDEX

	PERMANENT SEEDING
	DUST CONTROL
	VEGETATIVE BUFFER STRIP
	SILT FENCE
	INLET PROTECTION FABRIC DROP

CONSTRUCTION NOTES

1. EXCAVATION
 - 1.1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 205 OF THE MDT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION EXCEPT AS MODIFIED HEREIN.
 - 1.2. TOPSOIL SHALL BE REMOVED PRIOR TO CONSTRUCTING ANY IMPROVEMENTS SHOWN ON THIS SHEET. TOPSOIL SHALL BE SALVAGED AND STOCKPILED. STOCKPILES SHALL BE USED FOR RE-SPREADING. EXCESS TOPSOIL MAY BE USED TO CONSTRUCT EMBANKMENTS AS SHOWN IN THE DETAILS.
 - 1.3. TOPSOIL REMOVAL SHALL BE CONSIDERED PART OF "EXCAVATION, EARTH". ALL COSTS SHALL BE INCLUDED INTO THE PER CUBIC YARD ITEM FOR "EXCAVATION, EARTH, AS SPECIFIED".
 - 1.4. TOPSOIL REMOVAL, REMOVAL OF BRUSH, SHRUBS, MISCELLANEOUS ITEMS, AND TREES WITH DIAMETERS OF LESS THAN SIX INCHES SHALL BE CONSIDERED PART OF "EXCAVATION, EARTH". ALL COSTS SHALL BE INCLUDED INTO THE PER CUBIC YARD ITEM FOR "EXCAVATION, EARTH, AS SPECIFIED".
 - 1.5. EMBANKMENT WILL NOT BE PAID AS A SEPARATE ITEM. ALL COSTS TO HAUL, PLACE, GRADE AND COMPACT MATERIAL IN THE LOCATIONS SHOWN SHALL BE INCLUDED INTO THE PER CUBIC YARD ITEM FOR "EXCAVATION, EARTH, AS SPECIFIED".
2. TURF ESTABLISHMENT
 - 2.1. FERTILIZER, SEED, AND MULCH SHALL BE PERFORMED IN ACCORDANCE WITH THE MDT, 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTIONS 816 AND 917 EXCEPT AS DESCRIBED HEREIN.
 - 2.2. FERTILIZER SHALL BE CLASS B.
 - 2.3. SEED SHALL BE A MIXTURE OF 95% HIGH ENDOPHYTE CREEPING RED FESCUE AND 5% PERENNIAL RYE AND SOWN USING THE BRILLION OR DRILL SEED METHOD.
 - 2.4. MULCH SHALL BE WOOD FIBER MULCH AND APPLIED USING THE HYDROMULCH METHOD. MULCH ANCHORING SHALL BE APPROPRIATE FOR WOOD FIBER MULCH, AND LISTED ON THE MDT QUALIFIED PRODUCTS LIST. MULCH AND MULCH ANCHORING SHALL BE MIXED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS OR AS DESCRIBED IN SECTION 816..
3. EXISTING SOILS IN THE VICINITY OF THE DISPOSAL AREA ARE A MIXTURE OF IN-SITU SOILS AND MATERIALS HAULED FROM OTHER AREAS OF THE AIRPORT. REFER TO www.grr.org/environmental-commitment-pfas FOR ADDITIONAL INFORMATION.



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NO.	REVISIONS	BY	DATE	DRAWN
				SXH
			OCT. '26	DATE
			JAS	CHECKED
			OCT. '26	DATE

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

SOIL DISPOSAL AREA GRADING PLAN

PROJECT NO.
2250383

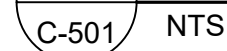
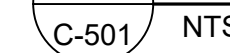
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C-211

NOTES:

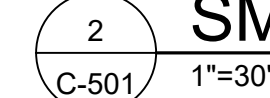
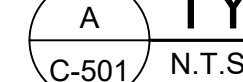
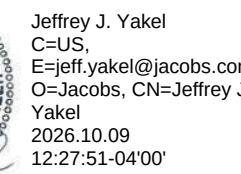
1. R-TANK HD HAS AN INTERNAL VOID SPACE OF 95% AND A SURFACE AREA VOID OF 90%.
2. R-TANK HD HAS A MAXIMUM COMPRESSION STRENGTH OF 33.4 PSI, (MODULE ONLY).
3. R-TANK HD IS MADE FROM 100% RECYCLED POLYPROPYLENE.
4. R-TANK HD IS COMPRISED OF 5 SMALL WALLS PER UNITS.



3
C-501



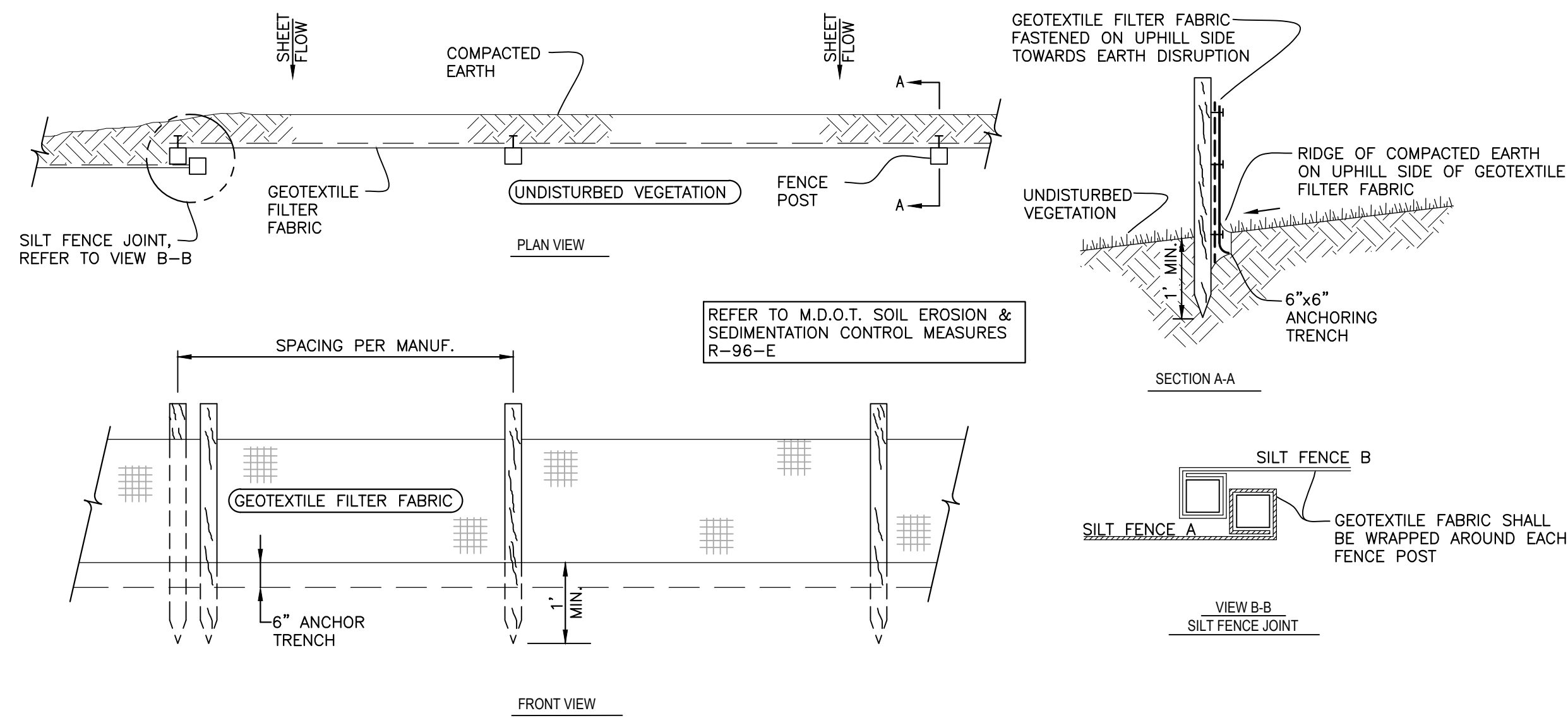
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C-501



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DATE	10/09/2020
CHECKED	VJ
DATE	10/09/2020

PROJECT NO.
2250383

SHEET NO.
C-501



26 **SOIL EROSION CONTROL
GEOTEXTILE SILT FENCING**
NOT TO SCALE

I:\WORKING PROJECTS\2025\2250383_C-449_NTS PHASE 2\A_PWD\2250383_C-449 SITE DETAILS.DWG - SHEET - Oct. 09 2025 - 12:04pm - Pwd\Anewhof

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GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
C-449 NATURAL TREATMENT SYSTEM
MAINTENANCE, PHASE 2

SITE DETAILS

PROJECT NO.
2250383

SHEET NO.

C-502

Meeting Minutes

Gerald R. Ford International Airport Authority

Natural Treatment System Maintenance, Phase 2 – Voluntary On-Site Conference

October 27, 2026

Attendees:

See attached

Items of Business:

1. Introduction

The Natural Treatment System (NTS) Maintenance, Phase 2 project is the maintenance of four Stage 1 cells (A, B, C and D). Cells E and F were maintained in the summer of 2026.

Bids are due on Nov. 10, 2026 at 2:00 pm. Bids are to be submitted electronically through the link provided for the project at www.grr.org/business-opportunities. Bids will be opened publicly after 2:00 pm in International Room B. (Room assignment subject to change.)

Questions are due to airport purchasing by Nov. 3, 2026 at 5:00 pm. An addendum to address question, if any, will follow.

2. Phasing/Schedule

The project is anticipated to be awarded by the Gerald R. Ford International Airport Authority (GFIAA) during their December 2026 scheduled board meeting. An notice of award and copies of the agreement will be sent to the successful lower bidder with the intent of executing the agreement and issued a notice to proceed in January 2027.

Submittals may be submitted as soon as the notice to proceed is issued. Submittals will be reviewed and returned to facilitate procurement of materials prior to the start of construction. Payment for materials on hand will be made as described in Section 90-07 of the General Contract Provisions.

Construction will not be permitted to start until June 1, 2027. The airport has an NPDES Industrial Stormwater discharge permit that requires monitoring activity through May 31, 2027. No disruptions to the existing system will be permitted by the contractor until the season is over.

Substantial completion of the project is August 31, 2027 with final completion on September 30, 2027.

3. Safety and Security

No work on aircraft surfaces is included. However, soil and materials excavated from the NTS are to be disposed inside the airport security fence (air operations area). Access to the disposal area is through Gates 79 or 80. Gate 80 has an automatic access system. If Gate 79 is used, it must be closed and locked between each operation or gate guards posted in accordance with GFIAA requirements.

4. Discussion Items

The natural treatment system aggregates are based on some MDOT standard gradations. There are some variations and the material must be clean. Certification from the source that materials have a loss by wash of less than one-half of one percent will be accepted and documentation of cleanliness.

An addendum will be issued to adjust some of the proposed contract quantities. A post advertisement review of quantities indicated that some modifications are warranted to more closely reflect required materials.

Existing bed media is to be disposed of inside Gate 80. Existing pipe materials are to be disposed at an offsite location. Infiltration chambers, collection chambers and aeration piping may be disposed inside Gate 80.

5. Questions

Prein&Newhof asked for input from potential bidders regarding sequence of cell construction to facilitate startup procedures in late summer of 2027. Bidders indicated that completing all four cells at an earlier date (shorter construction period) would probably have a lower impact on cost compared to splitting the schedule and completing two cells four weeks ahead of the other two cells.

Pre-Bid Meeting
GERALD R. FORD INTERNATIONAL AIRPORT
 Natural Treatment System Maintenance, Phase 2

C-449
 2260227
 10/27/26

	NAME	REPRESENTING	AREA CODE TELEPHONE	EMAIL ADDRESS
1	Marissa Norris	GRFAA		mnorris@grr.org
2	Michelle Baker	GFIAA	616-233-6022	mbaker@grr.org
3	Clint Nemeth	GFIAA	616-233-6041	cnemeth@grr.org
4	JOHN STROO	GFIAA	616-364-8491	jstrooc@preinnewhof.com
5	Brennan Combs	Fischer-Idema	269-806-6205	brennan@fischeridema.com
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20				
21				
22	BRETT IDEMA			
23	RICHARD ROSHON			