

POST-BID ADDENDUM No. 001
for
CITY OF EAST JORDAN
JOINING JORDAN
MEDC CDBG PROJ. #MSC 218022-CPF

Date of Issue: Thursday - February 6, 2020

Due: Friday – February 14th, by 11:00am to the East Jordan City Hall. Post-Bid addendum will be opened at this time and read aloud.

CHANGES TO THE CONTRACT DOCUMENTS:

BID: See attached revised bid form. Submit in a sealed envelope the fully completed and certified bid form, bid bond, non-collusion affidavit, acknowledge pre and post addendums. The project will be awarded based on the low base bid price. Alternates may be chosen by the Owner and will be negotiated with the low bidder of the base bid. Alternates will not be considered for award of the contract.

Several bid items are not affected as part of this post-bid addendum. Contractor to retain original bid price for these items. Specific updates to the bid form are noted below:

Base Bid Adjusted Items

- 1.01 General Conditions and Mobilization: Adjust as necessary for reduced scope of work
- 1.03 Traffic Control: Adjust as necessary for reduced work within the road ROW
- 1.04 Earthwork and Grading: Adjust as necessary for elimination of east side pocket park and other eliminated or reduced items
- 1.06 Conc., Rem.: Reduced quantity due to elimination of east side pocket park and Spring St. sidewalk
- 1.08 Electrical, Rem.: Adjust as necessary for the elimination of roadway overhead lighting removal, Spring St. lighting removal, marina pier lighting removal, and other electrical removal items affected per adjusted work scope.
- 1.10 Tree and Vegetation, Rem.: Adjust as necessary for elimination of east side pocket park
- 1.14 Guardrail, Rem. and Replace: Item eliminated from project
- 1.15 Roadway Striping, Rem.: Adjust as necessary for elimination of Spring St. crosswalk striping.
- 1.18 Marina Pier Removals: Item eliminated from base bid
- 1.19 Fencing, Rem.: Item eliminated from project
- 1.20 Shed, Rem.: Item eliminated from project

- 1.27 Detectable Warning Surface: Adjusted quantity for elimination of Spring St. crosswalk landings.
- 1.29 Signage, Custom: Reduced Allowance
- 1.31 Brick Paver: Item eliminated from project
- 1.32 Landscaping: Adjust as necessary for elimination of east side pocket park
- 1.33 Irrigation: Adjust as necessary for elimination of east side pocket park
- 1.38 Conc., 4": Reduced quantity due to elimination of east side pocket park and Spring St. sidewalk
- 1.39 Conc, 24" Turn Down Edge: Reduced quantity due to elimination of east side pocket park
- 1.40 Conc. Reinf., 6": Reduced quantity due to elimination of east side pocket park
- 1.43 Agg. Surface, 6", 6AA: Reduced quantity due to elimination of east side pocket park
- 1.44 Boardwalk, Type A: Adjust as necessary for elimination of overlook boardwalk section including framing, decking, steel piling, railing, and appurtenances. Includes the continuation of railing across waterward side of main boardwalk section.
- 1.49 Marina Pier Improvements: Item eliminated from base bid
- 1.50 Marina Pier Abutment: Item eliminated from project
- 1.51 Landscape Block Wall: Reduced quantity for elimination of east side pocket park, includes addition of block wall on west side pocket park along boardwalk.
- 1.53 Fencing, 6': Item eliminated from project
- 1.54 Fencing, 4': Item eliminated from project
- 1.55 Stacked Timber Wall: Item eliminated from project
- 1.56 Timber Pile Cluster: Item eliminated from project
- 1.57 Pergola: Item eliminated from project
- 1.58 12'x16' Timber Frame Shed: Item eliminated from project
- 1.59 Boardwalk Conc. Curb and Retaining Wall: Item eliminated from project
- 1.60 Lighting, Standard on Ex. Base: Item eliminated from project
- 1.61 Lighting, Single Mast Arm: Item eliminated from project
- 1.63 Lighting, Low Voltage Fixtures: Reduced quantity due to elimination of east side pocket park and elimination of marina pier improvements. Refer to updated lighting fixture legend on Sheet E5.
- 1.64 Lighting, Distribution: Adjust as necessary for the elimination of electrical distribution to south roadway lighting, marina pier railing lighting, Spring St. lighting, east pocket park lighting and other electrical distribution items affected per adjusted work scope.
- 1.65 Striping: Adjust as necessary for elimination of Spring St. crosswalk striping.
- 1.66 Site Furnishings: Adjust as necessary for elimination of east pocket park site furnishings. Refer to updated furniture legend on Sheet C2.
- 1.67 Bike Rack: Reduced quantity due to elimination of east side pocket park.
- 1.68 Restoration and Establishment:

Added Alternate Items

A1.01 – Marina Pier Decking Removal: New item and work scope
A1.02 – Marina Pier Re-deck & Junction Box Relocate: New item and work scope

A2.01 – Marina Pier Electrical Removals: New item and scope
A2.02 – Marina Pier South Railing: New item and scope
A2.03 – Lighting, Low Voltage Fixtures: New item and scope
A2.04 – Lighting, Distribution: New item and scope

A3.01 – Marina Pier North Railing: New item and scope
A3.02 – Lighting, Low Voltage Fixtures: New item and scope
A3.03 – Lighting, Distribution: New item and scope

A4.01 – Boardwalk, Type A Overlook: New item and scope

CHANGES TO THE TECHNICAL SPECIFICATIONS:

SECTION 01025 – MEASUREMENT AND PAYMENT: See attached revised Measurement and Payments section with specific updates noted below:

General: Removed descriptions for eliminated project items

Item No. 1.32 – Landscaping: Eliminate rip-rap plantings from description.

Item No. 1.44 – Boardwalk, Type A: Updated description to include furnishing and installation of helical piling for boardwalk support, welding of helical plates to boardwalk frames, product and installation information submittals and addition of skirt board to boardwalk.

Item No. 1.64 – Lighting, Distribution: Eliminate new signage lighting, marina wi-fi relocation, marina junction box relocation and new shed service from description.

Item No. A1.01 – Marina Pier Decking Removal: New item and description

Item No. A1.02 - Marina Pier Re-deck & Junction Box Relocate: New item and description

Item No. A2.01 - Marina Pier Electrical Removals: New item and description

Item No. A2.02 - Marina Pier South Railing: New item and description

Item No. A2.03 - Lighting, Low Voltage Fixtures: New item and description

Item No. A2.04 - Lighting, Distribution: New item and description

Item No. A3.01 - Marina Pier North Railing: New item and description

Item No. A3.02 - Lighting, Low Voltage Fixtures: New item and description

Item No. A3.03 - Lighting, Distribution: New item and description

Item No. A4.01 - Boardwalk, Type A Overlook: New item and description

CHANGES TO APPENDIX:

- See attached updated Federal Wage Rates for Highway (issued 1/24/20)

CHANGES TO PLANS:

See attached plan sheets for updates as described below:

- Sheet D1: Existing south side roadway lighting to remain
- Sheet D2: Existing south side roadway lighting to remain, existing guardrail to remain
- Sheet D3: Existing south side roadway lighting to remain, east side and Spring St. existing conditions to remain.
- Sheet D5: Updates to entire sheet, plan and details. Decking removal only for adjusted marina pier area. Alternate call outs for removal work.
- Sheet C1: Elimination of pergola, conc. retaining wall and boardwalk support, stacked timber walls, timber pile clusters and new south roadway lighting including electrical distribution. Added landscape block wall and boardwalk alternate.
- Sheet C2: Elimination of new south roadway lighting including electrical distribution and new guardrail. Updated furniture legend quantities.
- Sheet C3: Elimination of new south roadway lighting including electrical distribution. Elimination of east side park and Spring St. improvements.
- Sheet C4: New boardwalk alternate call off. New helical pile quantity, product and installation information to replace eliminated concrete retaining wall/boardwalk support. New landscape block walls with underdrain.
- Sheet C8: Updated marina pier improvement limits for re-decking only, screw fastened, as alternate. South and North side railing alternate call outs.
- Sheet E1: Elimination of new south roadway lighting and distribution. Change of boardwalk bump out seating area low voltage lighting type.
- Sheet E2: Elimination of new south roadway lighting and distribution.
- Sheet E3: Elimination of new south roadway lighting and distribution. New alternate call outs for south and north marina pier railing lighting and distribution.
- Sheet E4: Updated east side electrical panel schedule.
- Sheet E5: Updated electrical symbol legend and quantities.
- Sheet L2: Updated plant legend quantities
- Sheet L3: Eliminated east side park including associated landscaping and irrigation.

End of Post-Bid Addendum #1

PROJECT IDENTIFICATION: City of East Jordan – Joining Jordan Project

THIS BID IS SUBMITTED TO: City of East Jordan, Attn: Cheltzi Wilson, Clerk
201 Main St., PO Box. 499
East Jordan, MI 49727
(231) 536-3381

- 1.01** The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- 2.01** Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.
- 3.01** In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

 - A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged.

Addendum No.

Addendum Date

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface

structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 5.03 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Conditions, if any, which has been identified in the Supplementary Conditions as provided in paragraph 5.06 of the General Conditions.

- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.
- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid, for performance of the Work at the price(s) bid, and within the times and in accordance with the other items and conditions of the Bidding Documents.
- G. Bidder 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 Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, test, studies, and data with the Bidding Documents.
- I. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in

conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.


- 5.01** Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

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BID SCHEDULE

Base Bid – Post-Bid Addendum #1

 = Indicates bid items that are not affected as part of this post-bid addendum. Contractor to retain original bid price for these items.

* The project will be awarded based on the low base bid price. Alternates may be chosen by the Owner and will be negotiated with the low bidder of the base bid. Alternates will not be considered for award of the contract.

Item No.	Item Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
1.01	General Conditions and Mobilization	1	Ls	\$	\$
1.02	Soil Erosion and Sediment Control	1	Ls	\$	\$
1.03	Traffic Control	1	Ls	\$	\$
1.04	Earthwork and Grading	1	Ls	\$	\$
1.05	HMA, Rem.	3,907	Syd	\$	\$
1.06	Conc., Rem.	487	Syd	\$	\$
1.07	Curb, Rem.	2,240	Lf	\$	\$
1.08	Electrical, Rem.	1	Ls	\$	\$
1.09	Restroom Structure, Rem.	1	Ls	\$	\$
1.10	Tree and Vegetation, Rem.	1	Ls	\$	\$
1.11	Boat Launch, Rem.	1	Ls	\$	\$
1.12	Stm Structure, Rem.	1	Ls	\$	\$
1.13	Stm. Inlet, Rem and Replace	2	Ea	\$	\$
1.14	Guardrail, Rem. and Replace	380	Lf	\$ N/A	\$ N/A
1.15	Roadway Striping, Rem.	1	Ls	\$	\$
1.16	Weir Removals	1	Ls	\$	\$
1.17	Rip-Rap, Rem and Replace	1	Ls	\$	\$

1.18	Marina Pier Removals	4	Ls	\$ N/A	\$ N/A
1.19	Fencing, Rem.	4	Ls	\$ N/A	\$ N/A
1.20	Shed, Rem.	4	Ls	\$ N/A	\$ N/A
1.21	Parking Lot Refurbishment	1	Ls	\$	\$
1.22	HMA, 3" Hand Patch	65	Ton	\$	\$
1.23	Curb, F4	52	Lf	\$	\$
1.24	Curb, F6	1,189	Lf	\$	\$
1.25	Curb, F2	177	Lf	\$	\$
1.26	Curb, B2	144	Lf	\$	\$
1.27	Detectable Warning Surface	234	Sf	\$	\$
1.28	Signage, Regulatory	1	Ls	\$	\$
1.29	Signage, Custom	1	Ls	\$ 15,000	\$ 15,000
1.30	Water Service	1	Ls	\$	\$
1.31	Brick Paver	400	Sf	\$ N/A	\$ N/A
1.32	Landscaping	1	Ls	\$	\$
1.33	Irrigation	1	Ls	\$	\$
1.34	4' STM Structure	1	Ea	\$	\$
1.35	2' STM Structure	2	Ea	\$	\$
1.36	12" STM Sewer	149	Lf	\$	\$
1.37	Conc. End Section	1	Ea	\$	\$
1.38	Conc., 4"	12,200	Sf	\$	\$
1.39	Conc, 24" Turn Down Edge	8	Lf	\$	\$
1.40	Conc. Reinf., 6"	368	Sf	\$	\$

1.41	Drinking Fountain	1	Ea	\$	\$
1.42	Rip-Rap, 4"-12"	103	Ton	\$	\$
1.43	Agg. Surface, 6", 6AA	15	Syd	\$	\$
1.44	Boardwalk, Type A	1	Ls	\$	\$
1.45	Boardwalk, Type B	1	Ls	\$	\$
1.46	Boardwalk, Type C	1	Ls	\$	\$
1.47	Boardwalk, Type D	1	Ls	\$	\$
1.48	Boardwalk, Type E	1	Ls	\$	\$
1.49	Marina Pier Improvements	4	Ls	\$ N/A	\$ N/A
1.50	Marina Pier Abutment	4	Ls	\$ N/A	\$ N/A
1.51	Landscape Block Wall	192	Sff	\$	\$
1.52	Pavilion	2	Ea	\$	\$
1.53	Fencing, 6'	78	Lf	\$ N/A	\$ N/A
1.54	Fencing, 4'	20	Lf	\$ N/A	\$ N/A
1.55	Stacked Timber Wall	4	Ls	\$ N/A	\$ N/A
1.56	Timber Pole Cluster	4	Ls	\$ N/A	\$ N/A
1.57	Pergola	4	Ls	\$ N/A	\$ N/A
1.58	12'x16' Timber Frame Shed	4	Ls	\$ N/A	\$ N/A
1.59	Boardwalk Conc. Curb and Retaining Wall	4	Ls	\$ N/A	\$ N/A
1.60	Lighting, Standard on Ex. Base	6	Ea	\$ N/A	\$ N/A
1.61	Lighting, Single Mast Arm	7	Ea	\$ N/A	\$ N/A
1.62	Lighting, Bollard	8	Ea	\$	\$
1.63	Lighting, Low Voltage Fixtures	1	Ls	\$	\$

1.64	Lighting, Distribution	1	Ls	\$	\$
1.65	Striping	1	Ls	\$	\$
1.66	Site Furnishings	1	Ls	\$	\$
1.67	Bike Rack	4	Ea	\$	\$
1.68	Restoration and Establishment	1	Ls	\$	\$
Total of Base Bid Prices (Items 1.01-1.68)					\$

Alternate Bid

Alternate #1 – Marina Pier Re-deck

Item No.	Item Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
A1.01	Marina Pier Decking Removal	1	Ls	\$	\$
A1.02	Marina Pier Re-deck & Junction Box Relocate	1	Ls	\$	\$
Total of Alternate #1 Bid Prices (Items A1.01-A1.02)					\$

* Incorporate any general condition costs associated with this alternate work into alternate item pricing

Alternate #2 – Marina Pier South Railing

Item No.	Item Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
A2.01	Marina Pier Electrical Removals	1	Ls	\$	\$
A2.02	Marina Pier South Railing	1	Ls	\$	\$
A2.03	Lighting, Low Voltage Fixtures	1	Ls	\$	\$
A2.04	Lighting, Distribution	1	Ls	\$	\$
Total of Alternate #2 Bid Prices (Items A2.01-A2.04)					\$

* Incorporate any general condition costs associated with this alternate work into alternate item pricing

Alternate #3 – Marina Pier North Railing

Item No.	Item Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
A3.01	Marina Pier North Railing	1	Ls	\$	\$
A3.02	Lighting, Low Voltage Fixtures	1	Ls	\$	\$
A3.03	Lighting, Distribution	1	Ls	\$	\$
Total of Alternate #3 Bid Prices (Items A3.01-A3.03)					\$

* Incorporate any general condition costs associated with this alternate work into alternate item pricing

Alternate #4 – Boardwalk, Type A Overlook

Item No.	Item Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
A4.01	Boardwalk, Type A Overlook	1	Ls	\$	\$
Total of Alternate #4 Bid Prices (Items A4.01)					\$

* Incorporate any general condition costs associated with this alternate work into alternate item pricing

Unit prices have been computed in accordance with paragraph 13.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided, determined as provided in the Contract Documents.

6.01 Bidder agrees that the Work will be substantially complete and completed and ready for final payment in accordance with paragraph 15.03.B and 15.06.B of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and make a condition of this Bid:

- A. Required Bid security in the form of Bid Bond or Cashier's Check;
- B. Non-collusive Affidavit

8.01 The terms used in this Bid with initial capital letter have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on _____.

State Contractor License No. _____ (If applicable)

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's Signature)

Doing Business as: _____

Business address: _____

Phone No: _____ FAX No: _____

A Partnership

Partnership Name: _____

By: _____ (SEAL)
(Signature of general partner—attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone No: _____ FAX No: _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited

Liability): _____

By: _____

(Signature--attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Attest: _____ (CORPORATE SEAL)

(Signature of Corporate Secretary)

Business Address: _____

Phone No: _____ FAX No: _____

Date of Qualification to do Business is _____

A Joint Venture

Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of joint venture partner—attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business Address: _____

Phone No.: _____ FAX No.: _____

Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of joint venture partner—attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business Address: _____

Phone No.: _____ FAX No.: _____

Phone and FAX Number, and Address for receipt of official communications:

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SUMMARY

- A. Refer to Article 15 of the General Conditions.
- B. Bid price includes all labor, tools, equipment, materials, transportation, and applicable fees, use tax, and sales tax necessary to complete the work in accordance with the Plans and Specifications.
- C. All measurement and payment will be based on completed work, ready for use, performed in strict accordance with the Plans and Specifications.
- D. Bid quantities listed in the Bid Schedule have been estimated and are only for the purpose of comparing, on a uniform basis, the Bids offered for the Work. Completed quantities for payment will be based on field measurements.
- E. Neither the Owner nor his agents shall be held responsible should any of the estimated quantities be found incorrect.
- F. Payment will be made only on items listed in the BID SCHEDULE. All other work not listed in the BID SCHEDULE shall be considered incidental to the performance of the Work.
- G. Owner reserves the right to delete any line item or quantity on the BID SCHEDULE.

1.02 APPLICATION FOR PAYMENT

- A. Pay period: 30 days.
- B. Payment requests shall be submitted on the forms included in the Specifications.

1.03 SUBMITTALS

- A. Submit Conditional Partial Waiver of Lien with each application for payment request, as specified in the General Conditions paragraph 15.02
- B. Submit a schedule of values in accordance with Section 01300 for all Lump Sum Bids items.
- C. Prior to the first partial payment, submit a construction progress schedule in accordance with Article 4 of the General Conditions.

1.04 ITEMS OF THE BID FORM

BASE BID

Item No. 1.01 - General Conditions and Mobilization

- 1. Payment includes obtaining bonds, insurance riders, preparatory work and operation, for the movement of personnel, equipment, supplies, and incidentals to the project site; establishment temporary facilities needed to undertake the work as specified in Section 01700 CONTRACT CLOSEOUT. Item also includes, application payment and securing permits for all required Charlevoix County soil erosion, building, electrical and plumbing permits as required by the County.
- 2. Unit of measure: Lump Sum

Item No. 1.02 – Soil Erosion and Sediment Control

1. Payment includes providing, installing, and maintaining silt fence, turbidity curtain, inlet protection, straw blanket and all other SESC measures in locations indicated on the plans or required by the Soil Erosion and Sedimentation Control (SESC) Permit.
2. Unit of Measure: Lump Sum

Item No. 1.03 - Traffic control

1. Includes supplying material, installation, staging and maintenance of all traffic control measures as call for in project plans and contract documents and as directed by the Professional and governing agencies.
2. Unit of Measure: Lump Sum

Item No. 1.04 - Earthwork and Grading

1. Includes all material and labor for site preparation of the project including all grading, cutting, fill, site balancing, final topsoil of restoration areas and management of all material not part of the final project.
2. Unit of Measure: Lump Sum

Item No. 1.05- HMA, Rem.

1. Includes the labor and material for removal and disposal of existing HMA surface and all base material within the influence of final surfaces and restoration efforts
2. Unit of Measure: Square Yard

Item No. 1.06 - Conc. Rem.

1. Includes the labor and material for removal and disposal of existing concrete surfaces and all base material within the influence of final surfaces and restoration efforts.
2. Unit of Measure: Square Yard

Item No. 1.07- Curb, Rem.

1. Includes the labor and material for removal and disposal of existing concrete curb and all base material within the influence of final surfaces and restoration efforts.
2. Unit of Measure: Linear Foot

Item No. 1.08- Electrical, Rem.

1. Includes the labor and material for removal and disposal of existing electrical elements including lighting fixtures, light foundations and compacted backfill, utility poles complete and compacted backfill, overhead wiring, conduits and services to be abandoned and all other electrical system removals called for on project plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.09 – Restroom Structure, Rem.

1. Includes labor and material for removal and disposal of existing restroom structure. Includes removal and compacted backfill of complete foundation, removal and capping of utility leads, and removal of all other appurtenances for a complete structure removal.
2. Unit of Measure: Lump Sum

Item No. 1.10 - Tree and Vegetation, Rem.

1. Includes labor and material for removal of all trees, stumps, root structures, shrubs and other vegetation per contract plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.11 – Boat Launch, Rem.

1. Includes labor and material for the complete removal of existing boat launch including sheet piling complete above and below grade, concrete launch ramp complete, base material within the influence of final surfaces and restoration efforts, and existing timber skid pier.
2. Unit of Measure: Lump Sum

Item No. 1.12 – Stm. Structure, Rem.

1. Includes labor and material for the complete removal and disposal of existing stormwater structure and inlet, place compacted backfill and plug all invert/outlet leads.
2. Unit of measure: Lump Sum

Item No. 1.13 – Stm. Inlet, Rem. And Replace

1. Includes labor and material for the complete removal and disposal of stormwater curb inlets, furnishing and replacement of inlets per project plans, and all adjustments to stormwater structure and new inlet to fit new curbing.
2. Unit of Measure: Square Yard

~~Item No. 1.14 – Guardrail, Rem. and Replace~~

- ~~1. Includes labor and material for the removal and disposal of existing roadside guardrail, and replacement with specified steel post guardrail per project plans and specifications. Includes connections to other existing guardrail where needed.~~
- ~~2. Unit of Measure: Linear Foot~~

Item No. 1.15 - Roadway Striping, Rem.

1. Includes labor and material for the removal of existing roadway striping per project plans and specifications.
2. Unit of Measure: Square Foot

Item No. 1.16 - Weir Removals

1. Includes the labor and material for the removal and disposal of existing weir elements including pile beams, stringers, decking, railing, framing, and all other items called for on plans and needed for removal to accommodate new construction.
2. Unit of Measure: Lump Sum

Item No. 1.17 – Rip-Rap, Rem. and Replace

1. Includes labor and material for the removal of existing rip-rap within the influence of new boardwalk construction prior to boardwalk installation. Includes new fabric under rip-rap and the replacement of this rip-rap beneath boardwalk framing. Includes the use of this removed rip rap for new boat launch area rip-rap construction, and new rip- rap at north end of west boardwalk. Includes new fabric in areas of rip-rap placement.
2. Unit of Measure: Lump Sum

~~Item No. 1.18 – Marina Pier Removals~~

- ~~1. Includes labor and material for the complete removal and disposal of existing marina pier components including joists, decking, hardware, fendering, railing, cleats, electrical junction box supports and all other items needed removed for installation of the proposed marina improvements as shown on project plans and contract documents. Also includes temporary support of all utilities, gangway disconnection, lighting supports and all other accommodations for complete new construction.~~
- ~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.19 – Fencing, Rem.~~

- ~~1. Includes labor and material for the removal and disposal of fencing surrounding the existing dumpster and storage area. Includes removal of all concrete footings complete.~~
- ~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.20 – Shed Structure, Rem.~~

- ~~1. Includes labor and material for the complete removal and disposal of the existing shed structure and appurtenances. Includes the removal of all foundations, floors, concrete and supports.~~
- ~~2. Unit of Measure: Lump Sum~~

Item No. 1.21 – Parking Lot Refurbishment

1. Includes the labor and material for the refurbishment of the west side parking lot to remain. Includes removing all weeds and vegetation material in cracks, curbing and other paved areas; removing debris, sealing all cracks, and resealing full parking lot area.
2. Unit of Measure: Lump Sum

Item No. 1.22 - HMA, 3" Hand Patch

1. Includes labor and material for the installation of hand patched HMA installed in two lifts. Includes compacted road gravel and all finish work.
2. Unit of Measure: Ton

Item No. 1.23 – Curb, F4

1. Includes labor and material for the installation of concrete curb as specified, including compacted base material, concrete, reinforcement, earthwork, finishing and all other work needed for complete installation of curbing.
2. Unit of Measure: Linear Foot

Item No 1.24 – Curb, F6

1. Includes labor and material for the installation of concrete curb as specified, including compacted base material, concrete, reinforcement, earthwork, finishing and all other work needed for complete installation of curbing.
2. Unit of Measure: Linear Foot

Item No 1.25 – Curb, F2

1. Includes labor and material for the installation of concrete curb as specified, including compacted base material, concrete, reinforcement, earthwork, finishing and all other work needed for complete installation of curbing.
2. Unit of Measure: Linear Foot

Item No 1.26 – Curb, B2

1. Includes labor and material for the installation of concrete curb as specified, including compacted base material, concrete, reinforcement, earthwork, finishing and all other work needed for complete installation of curbing.
2. Unit of Measure: Linear Foot

Item No. 1.27 – Detectable Warning Surface

1. Includes furnishing of materials and installation of specified detectable warning surface at walkway intersections. Includes concrete below set warning surfaces as installed per project details.
2. Unit of Measure: Square Foot

Item No. 1.28 – Signage, Regulatory

1. Includes furnishing of materials and installation of all new regulatory signage as well as the relocation and setting of existing signage as called for on plans and installed per MDOT requirements
2. Unit of Measure: Lump Sum

Item No. 1.29 – Signage, Custom

1. Includes furnishing of materials, labor and installation of all new custom signage of type, size and location to be determined after project award and as described on project plans. Custom signage design, shop drawing process and manufacturer selection will be determined by the Professional and Owner for purchase and installation by the Contractor.
2. Unit of Measure: Lump Sum as Allowance

Item No. 1.30 – Water Service

1. Includes all materials and labor for installation of full water service items including connecting

to existing water service, fittings and connections, water lines, water meter and pit, vacuum breaker and cover, irrigation leads, testing, backfill and all other work for a complete water service system

1. Unit of Measure: Lump Sum

Item No. 1.31 – Brick Paver

- ~~1. Includes furnishing of materials and installation of clay brick pavers per plans and specifications. Includes compacted base material, edging, joint material and a full clay brick paver installation.~~
- ~~2. Unit of Measure: Square Foot~~

Item No. 1.32 – Landscaping

1. Includes furnishing of materials and installation of all new landscape plantings, trees, mulch, staking, backfill, fertilizer, ~~rip rap plantings~~ and all other installation items for complete plantings. Also includes landscape edging, precast stepping stones near west boardwalk, landscape boulders around west parking area. Also includes landscape planting warranty and all other applicable landscape items per project plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.33 – Irrigation

1. Includes furnishing of materials and installation of new irrigation system including controls, irrigation water lines, valves, drip line irrigation, rain sensor, electrical connections, shop drawings for review prior to installation, and all other items needed for a complete irrigation installation to serve landscape plantings, trees and irrigated turf.
2. Unit of Measure: Lump Sum

Item No. 1.34 – 4' STM Structure

1. Includes furnishing of materials and installation of storm structure complete per plans, specifications and MDOT requirements. Includes excavation, bedding, backfill, structure inlet casting and all other work and items necessary for a complete stormwater structure installation.
2. Unit of Measure: Each

Item No. 1.35 – 2' STM Structure

1. Includes furnishing of materials and installation of storm structure complete per plans, specifications and MDOT requirements. Includes excavation, bedding, backfill, structure inlet casting and all other work and items necessary for a complete stormwater structure installation.
2. Unit of Measure: Each

Item No. 1.36 – 12" STM Sewer

1. Includes furnishing of materials and installation of storm sewer complete per plans, specifications and MDOT requirements. Includes excavation, bedding, backfill, connection to storm structures and all other work and items necessary for a complete stormwater sewer installation.
2. Unit of Measure: Linear Foot

Item No. 1.37 – Conc. End Section

1. Includes furnishing of materials and installation of stormwater concrete end section complete per plans, specifications and MDOT requirements. Includes excavation, bedding, connections, backfill and all other work and items necessary for a complete stormwater end section installation.
2. Unit of Measure: Each

Item No. 1.38 – Conc., 4"

1. Includes furnishing of materials and installation of concrete sidewalk and surfaces. Includes compacted base material, jointing, finishing and all other work for complete concrete surface.

2. Unit of Measure: Square Foot

Item No. 1.39 – Conc., 24” Turn Down

1. Includes furnishing of materials and installation of concrete turn down sidewalk. Includes compacted base material, jointing, finishing, reinforcement and all other work for complete concrete turn down surface.
2. Unit of Measure: Linear Foot

Item No. 1.40 – Conc. Reinf., 6”

1. Includes furnishing of materials and installation of reinforced concrete sidewalk and surfaces. Includes compacted base material, jointing, reinforcement finishing and all other work for complete concrete surface.
2. Unit of Measure: Square Foot

Item No. 1.41 – Drinking Fountain

1. Includes furnishing of materials and installation of drinking fountain per manufacturer's specification and project plans.
2. Unit of Measure: Each

Item No. 1.42 – Rip-Rap, 4”-12”

1. Includes furnishing of materials and installation of 4”-12” rip-rap in locations called for on plans. Includes grade preparation, furnishing and installation of non-woven fabric and placement of material over fabric per requirement of the contract documents.
2. Unit of Measure: Ton

Item No. 1.43 – Agg. Surface, 6”, 6AA

1. Includes furnishing of materials and installation of 6AA aggregate in locations called for on plans. Includes grade preparation, furnishing and installation of non-woven fabric and placement of material over fabric per requirement of the contract documents
2. Unit of Measure: Square Yard

Item No. 1.44 – Boardwalk, Type A

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk on steel pipe and helical piles. Includes supplying and install steel pile piles, helical piles, boardwalk railing, railing light assemblies, electrical distribution accommodations, connections of frame to piles, skirt boards and all other items needed for a complete boardwalk assembly per plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.45 – Boardwalk, Type B

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk on pressure plate pan feet. Includes supplying and install steel pan feet, boardwalk railing, railing light assemblies, hardware, connections, electrical distribution accommodations, curb rails, and all other items needed for a complete boardwalk assembly per plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.46 – Boardwalk, Type C

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk on steel piles and beams. Includes supplying and install steel piles and beams, hardware, connections, modifying existing sheet pile abutment, boardwalk railing, railing light assemblies, electrical distribution accommodations, pavilion post mounts and surrounding boardwalk/decking modifications, and all other items needed for a complete boardwalk assembly per plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.47 – Boardwalk, Type D

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk on modified weir and beams. Includes supplying and install steel beams, modifying existing weir piles, connections, hardware, brackets, boardwalk railing, railing light assemblies, electrical distribution accommodations, kickers and all other items needed for a complete boardwalk assembly per plans and specifications.
2. Unit of Measure: Lump Sum

Item No. 1.48 – Boardwalk, Type E

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk on modified steel pile and beams. Includes supplying and installing steel pile and beams, connections, hardware, brackets, boardwalk railing, railing light assemblies, electrical distribution accommodations, connection to marina main pier and all other items needed for a complete boardwalk assembly per plans and specifications.
2. Unit of Measure: Lump Sum

~~Item No. 1.49 – Marina Pier Improvements~~

- ~~1. Includes furnishing of materials and installation needed for complete existing pier marina improvements. Includes joists, decking, hardware, fasteners, resetting of marina gangway on new pier with existing hardware, utility and junction box accommodations, utility and conduit supports, blocking, hardware for landside abutment connection, utility access hatches, new railing and lighting assemblies, gangway gates and hardware, and all other items necessary for complete marina pier improvements per plans and contract documents.~~
- ~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.50 – Marina Pier Abutment~~

- ~~1. Includes furnishing of materials and installation for concrete marina pier abutment. Includes removal of existing timber piles and concrete abutment, and new concrete, reinforcement, pier lumber accommodations, compacted base material, transitions to turn down concrete, utility penetration sleeves and all other items needed for complete marina pier abutment installation per plans and details.~~
- ~~2. Unit of Measure: Lump sum~~

Item No. 1.51 – Landscape Block Wall

1. Includes furnishing of materials and installation of specified landscape block wall including compacted base material, block, adhesive, wall cap, lighting accommodations, backfill drainage material, drain tile and all other items needed for a complete block wall installation per plans and details.
2. Unit of Measure: Square Face Foot

Item No. 1.52 – Pavilion

1. Includes furnishing of materials and installation of pre-manufactured pavilions. Includes utility accommodation, connections to foundation structure, hardware, finishes, light fixtures and accommodations and all other items for a complete pavilion installation per project plans and specifications. Also includes submission and review process of shop drawings for approval by the Professional.
2. Unit of Measure: Each

~~Item No. 1.53 – Fencing, 6'~~

- ~~1. Includes furnishing of materials and installation of fencing per project plans and specifications. Includes concrete footing and installation per manufacturer's recommendations, gate access, hardware and all other items for a complete fencing installation. Includes product layout submissions for review and approval by the professional prior to product purchase and installation.~~
- ~~2. Unit of Measure: Linear Foot~~

~~Item No. 1.54 – Fencing, 4'~~

- ~~1. Includes furnishing of materials and installation of fencing per project plans and~~

~~specifications. Includes concrete footing and installation per manufacturer's recommendations, gate access, hardware and all other items for a complete fencing installation. Includes product layout submissions for review and approval by the professional prior to product purchase and installation.~~

~~2. Unit of Measure: Linear Foot~~

~~Item No. 1.55 — Stacked Timber Wall~~

~~1. Includes furnishing of materials and installation of stacked timber wall complete on both sides of sidewalk, including log rounds, backer rods, chinking, compacted base material, drain tile, fabric and all other items needed for installation of stacked timber wall per plans and specifications.~~

~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.56 — Timber Pile Cluster~~

~~1. Includes furnishing of materials and installation of treated timber pile clusters complete, including treated timber piles, connection rods, compacted base material, filter fabric and all other items needed for complete timber pile cluster installation in both locations.~~

~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.57 — Pergola~~

~~1. Includes furnishing of materials and installation of premanufactured pergola. Includes engineered concrete footing designs, concrete and reinforcement, posts, connections, hardware, painting, lumber, engineered lumber, carpentry, sealant, engineered product shop drawings for review and approval by the professional prior to purchase and installation, and all other items needed for a complete installation of pergola per project plans and specifications.~~

~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.58 — 12x16 Timber Frame Shed~~

~~1. Includes furnishing of materials and installation of a 12' x 16' timber frame shed including 5M closed-cell polyethylene insulation between walls studs and roof joists, 6' x 6'-8" steel doors (x2), 24 gage standing seam metal roof (color to be determined by owner), T1-11 reverse board & batten siding 8" O.C., narrow groove, Include interior LED area light, heater, and GFCI outlets, Steel doors and T1-11 siding to be finished painted (two coats all weather exterior latex). Roof, siding, and all finish colors to be determined through the shop drawing submittal and approval process. Provide shop drawings for review and approval prior to purchase and installation.~~

~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.59 — Boardwalk Conc. Curb and Retaining Wall~~

~~1. Includes furnishing of materials and installation of concrete curb and retaining wall. Includes forming, concrete, reinforcement, compacted base, drain stone and drain tile, boardwalk ledger, jointing, lighting and utility accommodations, finishing and all other items needed for a complete concrete curb and retaining wall installation.~~

~~2. Unit of Measure: Lump Sum~~

~~Item No. 1.60 — Lighting, Standard on Ex. Base~~

~~1. Includes furnishing of materials and installation of new light pole and luminaire on existing concrete base. Includes base bolt adapter fitting, setting of pole, GFCI outlet, banner support arms, utility accommodations, warranties, electrical distribution accommodations, and all other items needed for a complete light pole assembly installation. Includes submission of product shop drawings and photometric plan for review by the professional prior to purchase and installation.~~

~~2. Unit of Measure: Each~~

~~Item No. 1.61 — Lighting, Single Mast Arm~~

~~1. Includes furnishing of materials and installation of new single mast light pole and new~~

~~concrete footing. Includes concrete, reinforcement, breakaway couplers, setting of pole, utility accommodations, banner support arms, electrical distribution accommodations, warranties, and all other items needed for a complete single mast light pole assembly installation. Includes submission of product shop drawings and photometric plan for review by the professional prior to purchase and installation.~~

~~2. Unit of Measure: Each~~

Item No. 1.62 – Lighting, Bollard

1. Includes furnishing of materials and installation of new lit bollard in locations called for on plans . Includes concrete footing, setting hardware, and all other accommodations for a complete operable bollard light installation.
2. Unit of Measure: Each

Item No. 1.63 – Lighting, Low Voltage Fixtures

1. Includes furnishing of materials and installation of new low voltage lighting fixtures as shown on plans and in project details. Includes coordination with mounting hardware and accepting surfaces/project components, electrical distribution accommodations, and all other items needed for complete working installation of low voltage lighting fixtures throughout the project.
2. Unit of Measure: Lump Sum

Item No. 1.64 – Lighting, Distribution

1. Includes furnishing of materials and installation of lighting distribution for all new lighting for the project, including standard and low voltage, as well as accommodations for systems with electrical needs, and modification of existing lighting distribution to accommodate final project needs. Includes new electrical wiring, conduits, hardware, hangars, supports, junction boxes, existing service panel modifications, new service panels, quazite boxes, transformers, ~~new signage lighting~~, connection of distribution to all new and modified existing lights, ~~marina wi-fi system relocation, marina electrical system junction relocation and setting, service to new shed~~, compliance with all electrical codes, and modification of existing electrical system where disturbed to meet current code.
2. Unit of Measure: Lump Sum

Item No. 1.65 – Striping

1. Includes furnishing of materials and installation of all roadway, crosswalk, parking lot and symbol striping for the project. Includes inlaid placement for roadway lines and crosswalks, blue markings for all handicap striping and symbols, and all other items needed for complete installation of project striping per project plans, specification and MDOT requirements.
2. Unit of Measure: Lump Sum

Item No. 1.66 – Site Furnishings

1. Includes furnishing of materials and installation of project site furnishings including benches, tables, receptacles, and all other items not specifically called for on project plans and specifications. Includes all hardware, blocking, and other items needed for installation on boardwalk, concrete or other surfaces.
2. Unit of Measure: Lump Sum

Item No. 1.67 – Bike Rack

1. Includes labor and material for the direct setting of bike racks per supplier recommendations. Includes sub grade concrete post footings and other items for a complete direct set install.
2. Unit of Measure: Each

Item No. 1.68 – Restoration and Establishment

1. Includes furnishing of materials and installation of site restoration efforts including fine grading of topsoil, seeding, temporary watering in non-irrigated areas and full restoration establishment. Includes restoration establishment plan for review and approval by the Professional along with any reseeding efforts required by the Professional until Owner

- acceptance of final product.
2. Unit of Measure: Lump Sum

Item No. A1.01 – Marina Pier Decking Removal

1. Includes labor and material for the complete removal and disposal of existing marina pier decking, fasteners, fendering, cleats (to be remounted), electrical junction box supports and all other items needed removed for installation of the proposed marina improvements as shown on project plans and contract documents. Also includes temporary support of all utilities, lighting supports and all other accommodations for complete new construction.
2. Unit of Measure: Lump Sum

Item No. A1.02 - Marina Pier Re-deck and Junction Box Relocate

1. Includes furnishing of materials and installation needed for existing pier marina re-decking and relocation of marina electrical junction boxes beneath decking surface. Includes decking, hardware, fasteners, utility access hatches, new junction boxes, existing electrical modifications, electrical permitting and inspections, remounting of cleats and all other items necessary for complete marina pier re-decking and junction box relocation per plans and contract documents.
2. Unit of Measure: Lump Sum

Item No. A2.01 - Marina Pier Electrical Removals

1. Includes labor and material for the complete removal and disposal of existing marina pier overhead light assemblies, mounting hardware, reconnecting electrical distribution for other pier lighting to remain and relocation and mounting of existing marina wi-fi components to closest marina pier light assembly to remain.
2. Unit of Measure: Lump Sum

Item No. A2.02 - Marina Pier South Railing

1. Includes furnishing of materials and installation needed for new railing and integrated lighting assemblies on south side of marina pier, mounting plates and blocking, hardware, and all other items necessary for complete marina pier railing system per plans and contract documents.
2. Unit of Measure: Lump Sum

Item No. A2.03 - Lighting, Low Voltage Fixtures

1. Includes furnishing of materials and installation of new low voltage lighting fixtures for the marina pier south railing as shown on plans and in project details. Includes coordination with mounting hardware and accepting surfaces/project components, electrical distribution accommodations, and all other items needed for complete working installation of low voltage lighting fixtures throughout the project.
2. Unit of Measure: Lump Sum

Item No. A2.04 - Lighting, Distribution

1. Includes furnishing of materials and installation of lighting distribution to all new lighting for the marina pier south railing. Includes new electrical wiring, conduits, hardware, hangars, supports, junction boxes, compliance with all electrical codes, and modification of existing electrical system where disturbed as needed to meet current code.
2. Unit of Measure: Lump Sum

Item No. A3.01 - Marina Pier North Railing

1. Includes furnishing of materials and installation needed for new railing and integrated lighting assemblies on north side of marina pier, mounting plates and blocking, gangway gates and hardware, and all other items necessary for complete marina pier railing system per plans and contract documents.
2. Unit of Measure: Lump Sum

Item No. A3.02 - Lighting, Low Voltage Fixtures

1. Includes furnishing of materials and installation of new low voltage lighting fixtures for the marina pier north railing and gangways as shown on plans and in project details. Includes coordination with mounting hardware and accepting surfaces/project components, electrical distribution accommodations, and all other items needed for complete working installation of low voltage lighting fixtures throughout the project.
2. Unit of Measure: Lump Sum

Item No. A3.03 - Lighting, Distribution

1. Includes furnishing of materials and installation of lighting distribution to all new lighting for the marina pier north railings and gangways. Includes new electrical wiring, conduits, hardware, hangars, supports, junction boxes, compliance with all electrical codes, and modification of existing electrical system where disturbed as needed to meet current code.
2. Unit of Measure: Lump Sum

Item No. A4.01 - Boardwalk, Type A Overlook

1. Includes furnishing of materials and installation of prefabricated galvanized steel and timber decked modular boardwalk overlook on steel pipe piles. Includes supplying and install of steel pile piles, boardwalk railing, railing light assemblies, low voltage lights, electrical distribution extensions, electrical distribution accommodations, connections of frame to piles, and all other items needed for a complete boardwalk overlook assembly per plans and specifications.
2. Unit of Measure: Lump Sum

END OF SECTION

"General Decision Number: MI20200001 01/24/2020

Superseded General Decision Number: MI20190001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx
and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 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, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	01/24/2020

CARP0004-004 06/01/2019

REMAINDER OF STATE

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 27.62	20.59

CARP0004-005 06/01/2018

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceaola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 30.50	27.28

ELEC0017-005 06/03/2019

STATEWIDE

	Rates	Fringes
Line Construction		
Groundman/Driver.....	\$ 28.58	15.27
Journeyman Signal Tech, Communications Tech, Tower		
Tech & Fiber Optic Splicers..	\$ 40.35	18.80
Journeyman Specialist.....	\$ 46.40	20.62
Operator A.....	\$ 34.10	16.93
Operator B.....	\$ 31.84	16.25

Classifications

Journeyman Specialist: Refers to a crew of only one person working alone.

Operator A: Shall be proficient in operating all power equipment including: Backhoe, Excavator, Directional Bore and Boom/Digger truck.

Operator B: Shall be proficient in operating any 2 of the above mentioned pieces of equipment listed under Operator A.

ENGI0324-003 06/01/2019

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:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
GROUP 1.....	\$ 46.52	24.35
GROUP 2.....	\$ 47.52	24.35
GROUP 3.....	\$ 45.02	24.35
GROUP 4.....	\$ 46.02	24.35
GROUP 5.....	\$ 43.52	24.35
GROUP 6.....	\$ 44.52	24.35
GROUP 7.....	\$ 43.25	24.35
GROUP 8.....	\$ 44.25	24.35
GROUP 9.....	\$ 42.80	24.35
GROUP 10.....	\$ 43.80	24.35
GROUP 11.....	\$ 42.07	24.35
GROUP 12.....	\$ 43.07	24.35
GROUP 13.....	\$ 41.71	24.35
GROUP 14.....	\$ 42.71	24.35
GROUP 15.....	\$ 41.07	24.35
GROUP 16.....	\$ 38.37	24.35
GROUP 17.....	\$ 23.89	11.50
GROUP 18.....	\$ 27.38	11.50

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Engineer when operating combination of boom and jib

400' or longer

GROUP 2: Engineer when operating combination of boom and jib
400' or longer on a crane that requires an oiler

GROUP 3: Engineer when operating combination of boom and jib
300' or longer

GROUP 4: Engineer when operating combination of boom and jib
300' or longer on a crane that requires an oiler

GROUP 5: Engineer when operating combination of boom and jib
220' or longer

GROUP 6: Engineer when operating combination of boom and jib
220' or longer on a crane that requires an oiler

GROUP 7: Engineer when operating combination of boom and jib
140' or longer

GROUP 8: Engineer when operating combination of boom and jib
140' or longer on a crane that requires an oiler

GROUP 9: Tower crane & derrick operator (where operator's
work station is 50 ft. or more above first sub-level)

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

GROUP 11: Engineer when operating combination of boom and jib
120' or longer

GROUP 12: Engineer when operating combination of boom and jib
120' or longer on a crane that requires an oiler

GROUP 13: Crane operator; job mechanic and 3 drum hoist and
excavator

GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired
backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

ENGI0324-004 06/01/2019

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, VAN BUREN

AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE,
KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

Rates

Fringes

OPERATOR: Power Equipment

(Steel Erection)

AREA 1

GROUP 1.....	\$ 46.52	24.35
GROUP 2.....	\$ 43.25	24.35
GROUP 3.....	\$ 41.71	24.35
GROUP 4.....	\$ 38.37	24.35
GROUP 5.....	\$ 23.89	11.50
GROUP 6.....	\$ 27.38	11.50

AREA 2

GROUP 1.....	\$ 46.52	24.35
GROUP 2.....	\$ 43.25	24.35
GROUP 3.....	\$ 41.71	24.35
GROUP 4.....	\$ 38.37	24.35
GROUP 5.....	\$ 23.89	11.50
GROUP 6.....	\$ 27.38	11.50

FOOTNOTES:

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.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

* ENGI0324-005 09/01/2019

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

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, LAKE, 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, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

Rates

Fringes

OPERATOR: Power Equipment
(Underground construction
(including sewer))

AREA 1:

GROUP 1.....	\$ 34.63	24.35
GROUP 2.....	\$ 29.90	24.35
GROUP 3.....	\$ 29.17	24.35
GROUP 4.....	\$ 28.60	24.35
GROUP 5.....	\$ 21.40	13.48

AREA 2:

GROUP 1.....	\$ 32.92	24.35
GROUP 2.....	\$ 28.03	24.35
GROUP 3.....	\$ 27.53	24.35
GROUP 4.....	\$ 27.25	24.35
GROUP 5.....	\$ 21.40	13.48

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

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

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

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); Maintenance 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)

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 hours or more 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); End dump operator; Sweeper (Wayne type); Water wagon and Extend-a boom forklift

Group 5: Fire Person, Oiler

* ENGI0324-006 06/01/2019

GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW, WAYNE, 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, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

Rates Fringes

Power equipment operators:
(AIRPORT, BRIDGE & HIGHWAY
CONSTRUCTION)

GROUP 1.....	\$ 34.16	24.35
GROUP 2.....	\$ 27.43	24.35
GROUP 3.....	\$ 26.87	24.35
GROUP 4.....	\$ 26.70	24.35

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt plant operator; Crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline operator; Shovel operator; Locomotive operator; Paver operator (5 bags or more); Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Slip form paver; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Endloader operator (1 yd. capacity and over); 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 paver (self-propelled); Asphalt planer (self-propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete pump (3 in. 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 (40h.p. or over; Tractor Operator (farm type); Finishing Machine Operator (concrete); Grader Operator (self-propelled fine grade or form (concrete)).

GROUP 2: Screening plant operator; Washing plant operator; Crusher 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);

GROUP 3: Boiler fire tender; Tractor operator (farm type with attachment); Concrete Breaker; Wagon Drill Operator;

GROUP 4: Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Boom or winch hoist truck operator; Endloader operator *under 1 yd. capacity); Roller Operator (other than asphalt); Curing equipment operator (self-propelled); Power bin operator; Plant drier (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self-propelled); End dump; Skid Steer.

 ENGI0324-007 05/01/2019

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
Compressor, welder and forklift.....	\$ 33.90	24.10
Crane operator, main boom & jib 120' or longer.....	\$ 39.87	24.10
Crane operator, main boom & jib 140' or longer.....	\$ 40.17	24.10
Crane operator, main boom & jib 220' or longer.....	\$ 40.76	24.10
Mechanic with truck and tools.....	\$ 39.00	24.10
Oiler and fireman.....	\$ 31.86	24.10
Regular operator.....	\$ 37.22	24.10

 ENGI0324-008 10/01/2015

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, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
OPERATOR: Power Equipment (Sewer Relining)		
GROUP 1.....	\$ 30.70	12.93
GROUP 2.....	\$ 29.17	12.93

SEWER RELINING CLASSIFICATIONS

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

GROUP 2: Operation of hot water heaters and circulation systems, water jetters and vacuum and mechanical debris removal systems

 ENGI0325-012 05/01/2019

	Rates	Fringes
Power equipment operators - gas distribution and duct installation work:		
GROUP 1.....	\$ 31.34	24.45
GROUP 2.....	\$ 31.31	24.45
GROUP 3.....	\$ 29.60	24.45

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.

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).

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).

GROUP 3: Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

 IRON0008-007 06/01/2019

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector.....	\$ 23.70	6.95
IRONWORKER		
General contracts		
\$10,000,000 or greater.....	\$ 33.00	27.12
General contracts less than \$10,000,000.....	\$ 33.00	27.12

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0025-002 06/01/2019

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector		
Alcona, Alpena, Arenac, Cheboygan, Clare, Clinton, Crawford, Gladwin, Gratiot, Huron, Ingham, Iosco, Isabella, Jackson, Lapeer, Livingston (west of Burkhardt Road), Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Sanilac, Shiawassee, Tuscola & Washtenaw (west of U.S. 23).	\$ 24.26	22.11
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...	\$ 25.48	23.11
IRONWORKER		
Ornamental and Structural...	\$ 36.77	29.03
Reinforcing.....	\$ 30.98	27.99

IRON0055-005 07/01/2019

LENAWEE AND MONROE COUNTIES:

	Rates	Fringes
IRONWORKER		
Pre-engineered metal buildings.....	\$ 23.59	19.35
All other work.....	\$ 30.38	24.40

IRON0292-003 06/01/2019

BERRIEN AND CASS COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 30.95	22.25

IRON0340-001 06/19/2017

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:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 24.43	24.67

LAB00005-006 10/01/2017

	Rates	Fringes
Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE AND WEXFORD COUNTIES - Zone 10)		
Levels A, B or C.....	\$ 17.45	12.75
class b.....	\$ 18.00	12.85
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 16.45	12.75
class a.....	\$ 17.00	12.85

Zone 10

Laborers - hazardous waste abatement: (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEbic, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - Zone 11)		
Levels A, B or C.....	\$ 21.63	12.88
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 20.63	12.88

Laborers - hazardous waste abatement: (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)		
Levels A, B or C.....	\$ 20.95	12.85
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		

Also, Level D.....\$ 19.95	12.85
Laborers - hazardous waste abatement: (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - Zone 8)	
Levels A, B or C.....\$ 20.65	12.85
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 19.65	12.85
Laborers - hazardous waste abatement: (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); LIVINGSTON COUNTY (west of Oak Grove Rd., including the City of Howell) - Zone 6)	
Levels A, B or C.....\$ 24.65	12.85
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 23.65	12.85
Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - Zone 7)	
Levels A, B or C.....\$ 23.61	13.41
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 22.61	13.41
Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEЕ COUNTIES - Zone 4)	
Levels A, B or C.....\$ 24.19	12.85
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 23.19	12.85
Laborers - hazardous waste abatement: (LIVINGSTON COUNTY (east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND WASHTENAW COUNTY - Zone 3)	
Levels A, B or C.....\$ 29.70	14.20
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	
Also, Level D.....\$ 28.70	14.20
Laborers - hazardous waste abatement: (MACOMB AND WAYNE	

COUNTIES - Zone 1)

Levels A, B or C.....\$ 28.35	16.75
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	

Also, Level D.....\$ 27.35	16.75
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Laborers - hazardous waste
abatement: (MONROE COUNTY -
Zone 4)

Levels A, B or C.....\$ 30.85	14.45
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	

Also, Level D.....\$ 29.84	14.45
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Laborers - hazardous waste
abatement: (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)

Level A, B, C.....\$ 28.85	16.75
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	

Also, Level D.....\$ 27.85	16.75
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Laborers - hazardous waste
abatement: (SANILAC AND ST.
CLAIR COUNTIES - Zone 5)

Levels A, B or C.....\$ 25.19	15.86
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;	

Also, Level D.....\$ 24.19	15.86
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LAB00259-001 09/01/2018

AREA 1: MACOMB, OAKLAND AND WAYNE COUNTIES

AREA 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, 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, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE,
MIDLAND, MISSAUKEE, MONROE, MONTCALM, MONTMORENCY, MUSKEGON,
NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO,
OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST.
JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN,
WASHTENAW AND WEXFORD COUNTIES

Rates

Fringes

Laborers - tunnel, shaft and
caisson:

AREA 1

GROUP 1.....	\$ 22.57	16.80
GROUP 2.....	\$ 22.68	16.80
GROUP 3.....	\$ 22.74	16.80
GROUP 4.....	\$ 22.92	16.80
GROUP 5.....	\$ 23.17	16.80
GROUP 6.....	\$ 23.50	16.80
GROUP 7.....	\$ 16.78	16.80

AREA 2

GROUP 1.....	\$ 24.10	12.85
GROUP 2.....	\$ 24.19	12.85
GROUP 3.....	\$ 24.29	12.85
GROUP 4.....	\$ 24.45	12.85
GROUP 5.....	\$ 24.71	12.85
GROUP 6.....	\$ 25.02	12.85
GROUP 7.....	\$ 17.29	12.85

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, aquifers, reservoirs, missile silos and steel sheeting for underground construction.

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), 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.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner plate, long haul dinky driver and well point

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.)

GROUP 6: Dynamite and powder

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.

LAB00334-001 09/01/2018

Rates

Fringes

Laborers - open cut:

ZONE 1 - MACOMB, OAKLAND

AND WAYNE COUNTIES:

GROUP 1.....	\$ 22.42	16.80
GROUP 2.....	\$ 22.53	16.80
GROUP 3.....	\$ 22.58	16.80
GROUP 4.....	\$ 22.66	16.80
GROUP 5.....	\$ 22.72	16.80
GROUP 6.....	\$ 20.17	16.80
GROUP 7.....	\$ 16.79	16.80

ZONE 2 - LIVINGSTON COUNTY

(east of M-151 (Oak Grove Rd.)); MONROE AND

WASHTENAW COUNTIES:

GROUP 1.....	\$ 23.75	12.85
GROUP 2.....	\$ 23.86	12.85
GROUP 3.....	\$ 23.98	12.85
GROUP 4.....	\$ 24.05	12.85
GROUP 5.....	\$ 24.20	12.85
GROUP 6.....	\$ 21.50	12.85
GROUP 7.....	\$ 18.14	12.85

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:

GROUP 1.....	\$ 21.94	12.85
GROUP 2.....	\$ 22.08	12.85
GROUP 3.....	\$ 22.20	12.85
GROUP 4.....	\$ 22.25	12.85
GROUP 5.....	\$ 22.39	12.85
GROUP 6.....	\$ 19.69	12.85
GROUP 7.....	\$ 16.84	12.85

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,

ROSCOMMON, SAGINAW, ST.

JOSEPH, TUSCOLA, VAN BUREN

AND WEXFORD COUNTIES:

GROUP 1.....	\$ 20.97	12.85
GROUP 2.....	\$ 21.10	12.85
GROUP 3.....	\$ 21.21	12.85
GROUP 4.....	\$ 21.28	12.85
GROUP 5.....	\$ 21.40	12.85

GROUP 6.....	\$ 18.62	12.85
GROUP 7.....	\$ 16.96	12.85
ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:		
GROUP 1.....	\$ 21.19	12.85
GROUP 2.....	\$ 21.33	12.85
GROUP 3.....	\$ 21.46	12.85
GROUP 4.....	\$ 21.51	12.85
GROUP 5.....	\$ 21.56	12.85
GROUP 6.....	\$ 18.94	12.85
GROUP 7.....	\$ 17.05	12.85

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.

OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

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

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodman, 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

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

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

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.

LAB00465-001 06/01/2019

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA AND VAN BUREN COUNTIES

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, PRESQUE ISLE, ROSCOMMON AND WEXFORD COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES

	Rates	Fringes
LABORER (AREA 1)		
GROUP 1.....	\$ 27.07	12.90
GROUP 2.....	\$ 27.20	12.90
GROUP 3.....	\$ 27.38	12.90
GROUP 4.....	\$ 27.46	12.90
GROUP 5.....	\$ 27.67	12.90
GROUP 6.....	\$ 27.97	12.90
LABORER (AREA 2)		
GROUP 1.....	\$ 24.02	12.85
GROUP 2.....	\$ 24.22	12.85
GROUP 3.....	\$ 24.46	12.85
GROUP 4.....	\$ 24.81	12.85
GROUP 5.....	\$ 24.68	12.85
GROUP 6.....	\$ 25.02	12.85
LABORER (AREA 3)		
GROUP 1.....	\$ 23.27	12.85
GROUP 2.....	\$ 23.48	12.85
GROUP 3.....	\$ 23.77	12.85
GROUP 4.....	\$ 24.21	12.85
GROUP 5.....	\$ 23.83	12.85
GROUP 6.....	\$ 24.26	12.85
LABORER (AREA 4)		
GROUP 1.....	\$ 23.32	12.85
GROUP 2.....	\$ 23.53	12.85
GROUP 3.....	\$ 23.82	12.85
GROUP 4.....	\$ 24.26	12.85

GROUP 5.....	\$ 23.88	12.85
GROUP 6.....	\$ 24.31	12.85

LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.; burlap person; yard person; dumper (wagon, truck, etc.); joint filling laborer; miscellaneous laborer; unskilled laborer; sprinkler laborer; form setting laborer; form stripper; pavement reinforcing; 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; highway and median installer's tender (including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

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.

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.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt screed checker/screw man on asphalt paving machines.

LAB01076-005 04/01/2019

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1.....	\$ 21.47	12.90
Zone 2.....	\$ 19.77	12.90
Zone 3.....	\$ 17.95	12.90
Zone 4.....	\$ 17.32	12.90
Zone 5.....	\$ 17.30	12.90

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
- Zone 2 - Monroe and Washtenaw
- Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair
- Zone 4 - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon and Schoolcraft
- Zone 5 - Remaining Counties in Michigan

PAIN0022-002 07/01/2008

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:

	Rates	Fringes
PAINTER.....	\$ 25.06	14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 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.

PAIN0312-001 06/01/2018

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

	Rates	Fringes
PAINTER		
Brush and roller.....	\$ 23.74	13.35
Spray, Sandblast, Sign		
Painting.....	\$ 24.94	13.35

PAIN0845-003 05/10/2018

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):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-015 05/10/2018

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 Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-018 05/10/2018

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 Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

FOOTNOTES: Lead abatement work: \$1.00 per hour additional.

PAIN1011-003 06/02/2019

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
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PAINTER.....	\$ 25.76	13.33
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FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.

PAIN1474-002 06/01/2010

HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:

	Rates	Fringes
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PAINTER.....	\$ 23.79	12.02
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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.

PAIN1803-003 06/01/2019

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:

	Rates	Fringes
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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.....	\$ 25.39	14.68
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All other work, including maintenance of industrial

plant.....	\$ 25.39	14.68
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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.

PLAS0514-001 06/01/2018

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 31.47	13.81
ZONE 2.....	\$ 29.97	13.81

PLUM0190-003 05/01/2015

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, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
Plumber/Pipefitter - gas		
distribution pipeline:		
Welding in conjunction		
with gas distribution		
pipeline work.....	\$ 33.03	20.19
All other work:.....	\$ 24.19	12.28

TEAM0007-004 06/01/2019

AREA 1: 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, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER		
AREA 1		
Euclids, double bottoms and lowboys.....	\$ 27.30	.50 + a+b
Trucks under 8 cu. yds.....	\$ 27.05	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 27.15	.50 + a+b
AREA 2		
Euclids, double bottoms and lowboys.....	\$ 24.895	.50 + a+b
Euclids, double bottoms and lowboys.....	\$ 27.40	.50 + a+b
Trucks under 8 cu. yds.....	\$ 27.15	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 27.25	.50 + a+b

Footnote:

a. \$455.10 per week

b. \$68.70 daily

TEAM0247-004 04/01/2013

AREA 1: 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, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
Sign Installer		
AREA 1		
GROUP 1.....	\$ 21.78	11.83
GROUP 2.....	\$ 25.27	11.8375
AREA 2		
GROUP 1.....	\$ 22.03	11.83
GROUP 2.....	\$ 25.02	11.8375

FOOTNOTE:

a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

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

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

TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER (Underground construction)		
AREA 1		
GROUP 1.....	\$ 23.82	19.04
GROUP 2.....	\$ 23.91	19.04
GROUP 3.....	\$ 24.12	19.04
AREA 2		
GROUP 1.....	\$ 24.12	19.04
GROUP 2.....	\$ 24.26	19.04
GROUP 3.....	\$ 24.45	19.04

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

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.

TRUCK DRIVER CLASSIFICATIONS

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)

GROUP 2: Truck driver on dump trucks of 8 cubic yards capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

SUMI2002-001 05/01/2002

	Rates	Fringes
Flag Person.....	\$ 10.10	0.00
LINE PROTECTOR (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)....	\$ 18.98	12.85
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 17.14	12.85
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 25.74	12.85
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 23.17	12.85
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 23.67	12.85
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 21.30	12.85

WORK CLASSIFICATIONS:

PAVEMENT MARKER 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.

PAVEMENT MARKER 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.

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.

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 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) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates

the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

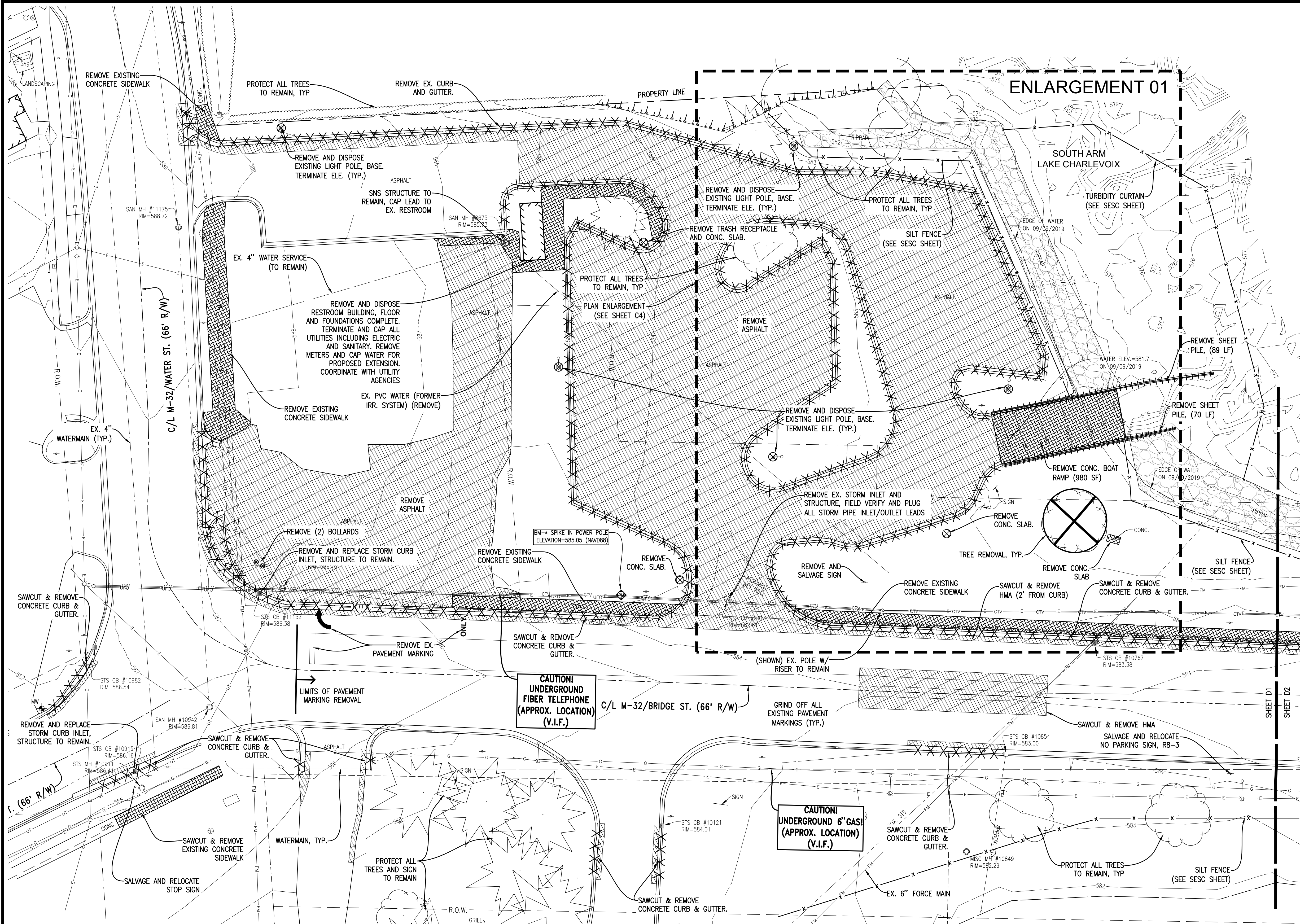
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION"



Removals Legend

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BOARDWALK / DECK REMOVAL
- CONCRETE CURB REMOVAL
- SHEET PILE REMOVAL
- TREE REMOVAL
- OBJECT REMOVAL

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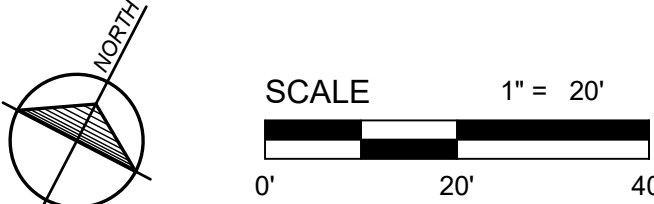
No.	Date	Revision	By
01	02-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM	DAW

EXISTING CONDITIONS & DEMO PLAN 01
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued:	11-19-2019
Date Surveyed:	09-09-2019
Designed By:	KDH
Drawn By:	DAW
Checked By:	KSK
Scale:	AS NOTED
Original sheet size is 22x34	
Location:	
SECTION 23 T32N R07W CHARLEVOIX COUNTY MICHIGAN	
Project Number:	
2019510004.03	
Sheet:	
D1	

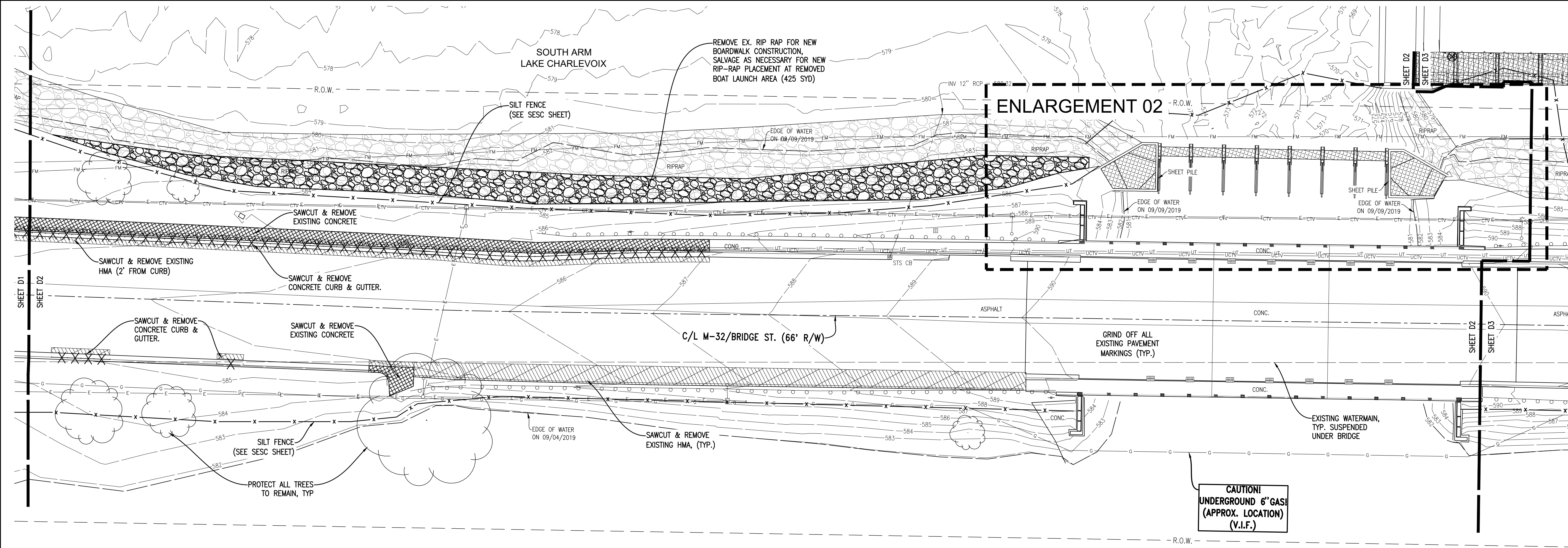
3 SOUTH SIDE ROADWAY LIGHTING TO REMAIN.

DEMO PLAN: AREA 01
SCALE: 1" = 20'

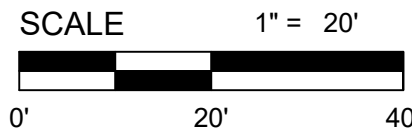
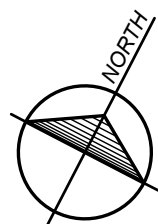


811 Know what's below.
Call before you dig.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.



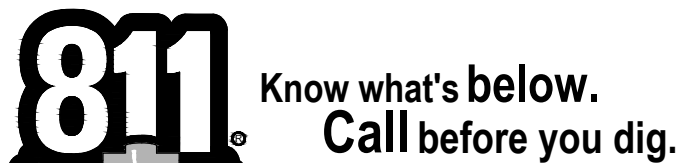
DEMO PLAN: AREA 02
SCALE: 1" = 20'



Removals Legend

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BOARDWALK / DECK REMOVAL
- CONCRETE CURB REMOVAL
- SHEET PILE REMOVAL
- TREE REMOVAL
- OBJECT REMOVAL

3
SOUTH SIDE ROADWAY
LIGHTING TO REMAIN.
GUARDRAIL TO REMAIN.



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No.	Date	Revision	By
02	02-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM 001	DAW

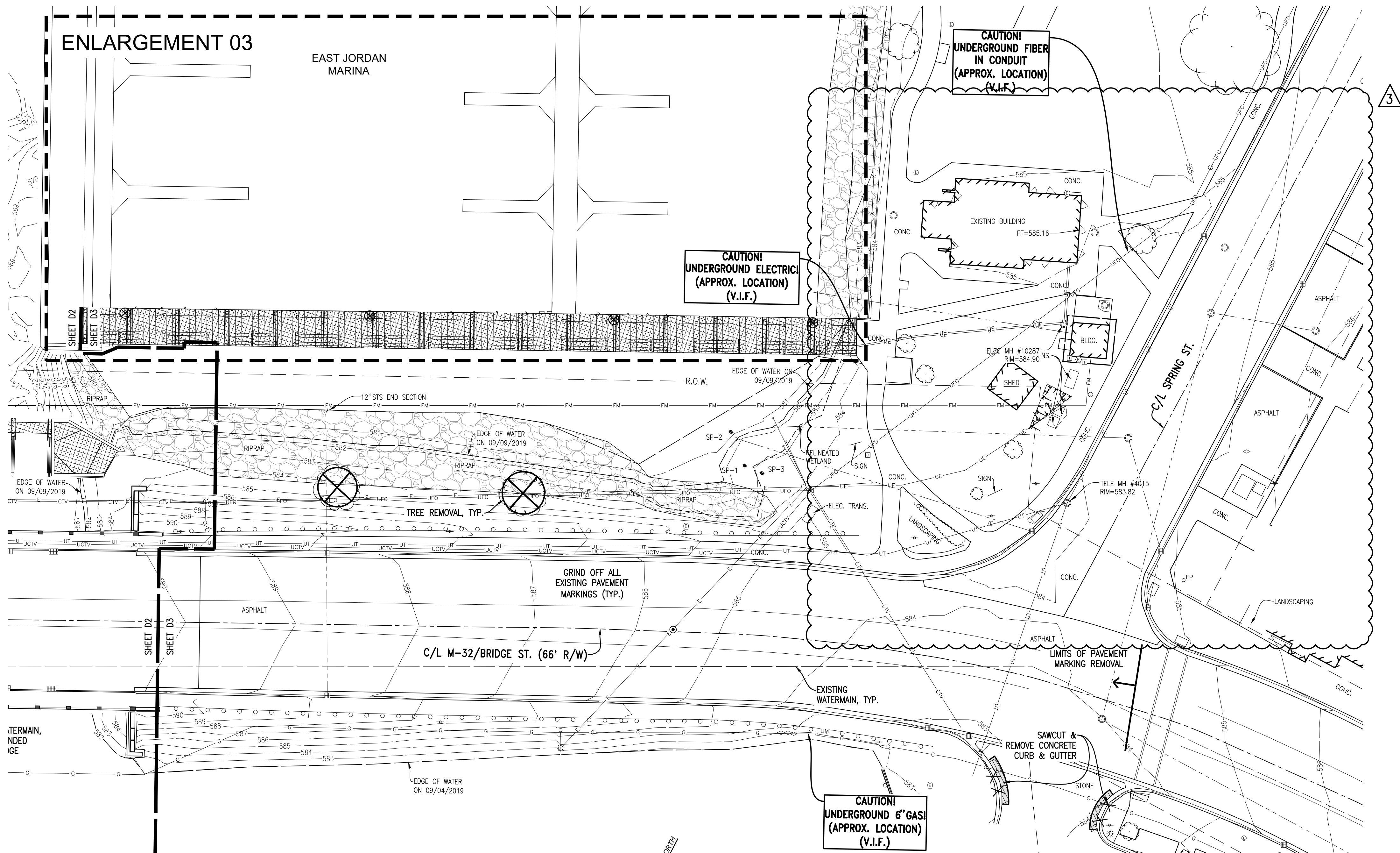
EXISTING CONDITIONS & DEMO PLAN 02
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
Drawn By: DAW
Checked By: KSK
Scale: AS NOTED

Original sheet size is 22x34
Location: SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number: 2019510004.03

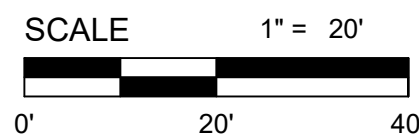
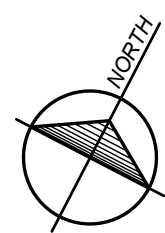
Sheet: D2



Removals Legend

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BOARDWALK / DECK REMOVAL
- CONCRETE CURB REMOVAL
- SHEET PILE REMOVAL
- TREE REMOVAL
- OBJECT REMOVAL

DEMO PLAN: AREA 03
SCALE: 1" = 20'



3
SOUTH SIDE ROADWAY LIGHTING
TO REMAIN. EAST SIDE EXISTING
CONDITIONS TO REMAIN.



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No.	Date	Revision	By
01	01-14-2020	ADDENDUM 001	DAW
02	01-22-2020	ADDENDUM 002	KSK
03	02-06-2020	POST-BID ADDENDUM 001	DAW

EXISTING CONDITIONS & DEMO PLAN 03 JOINING JORDAN - PROJECT #MSC 218022-CPF EAST JORDAN DDA

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
Drawn By: DAW
Checked By: KSK
Scale: AS NOTED

Original sheet size is 22x34

Location:
SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number:
2019510004.03

Sheet:
D3

No.	Date	Revision	By
01	02-06-2020	POST-END ADDENDUM 001	DAW

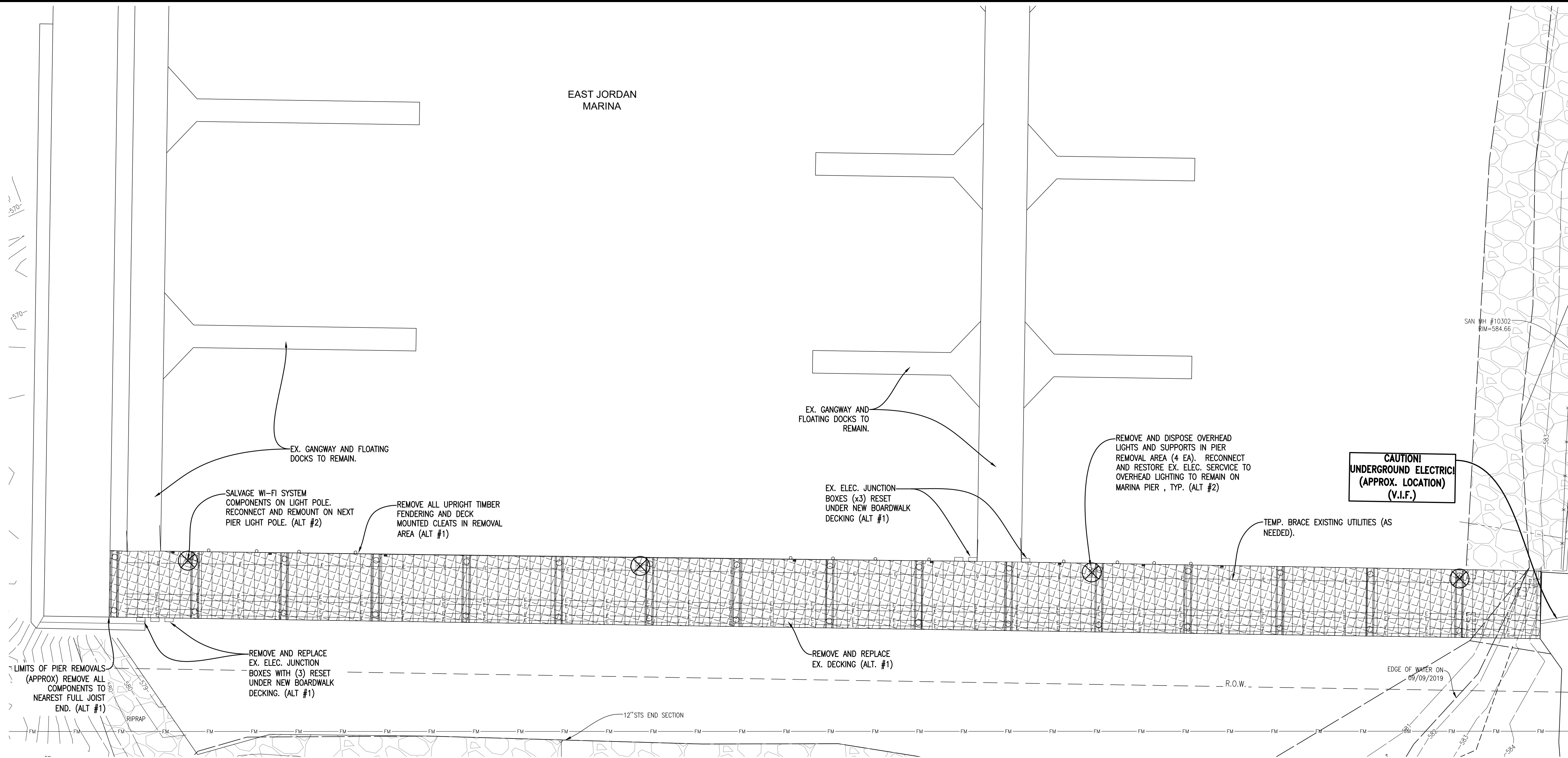
**EXISTING CONDITIONS & DEMO ENLARGEMENT
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA**

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
Drawn By: DAW
Checked By: KSK
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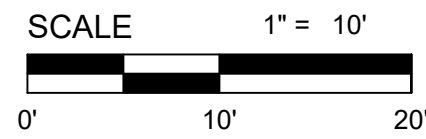
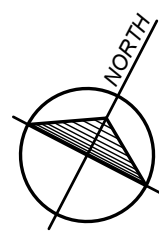
Location:
SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number:
2019510004.03

Sheet:
D5



EX. MARINA PIER DEMO
SCALE: 1" = 10'



Removals Legend

- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BOARDWALK DECK REMOVAL
- CONCRETE CURB REMOVAL
- SHEET PILE REMOVAL
- TREE REMOVAL

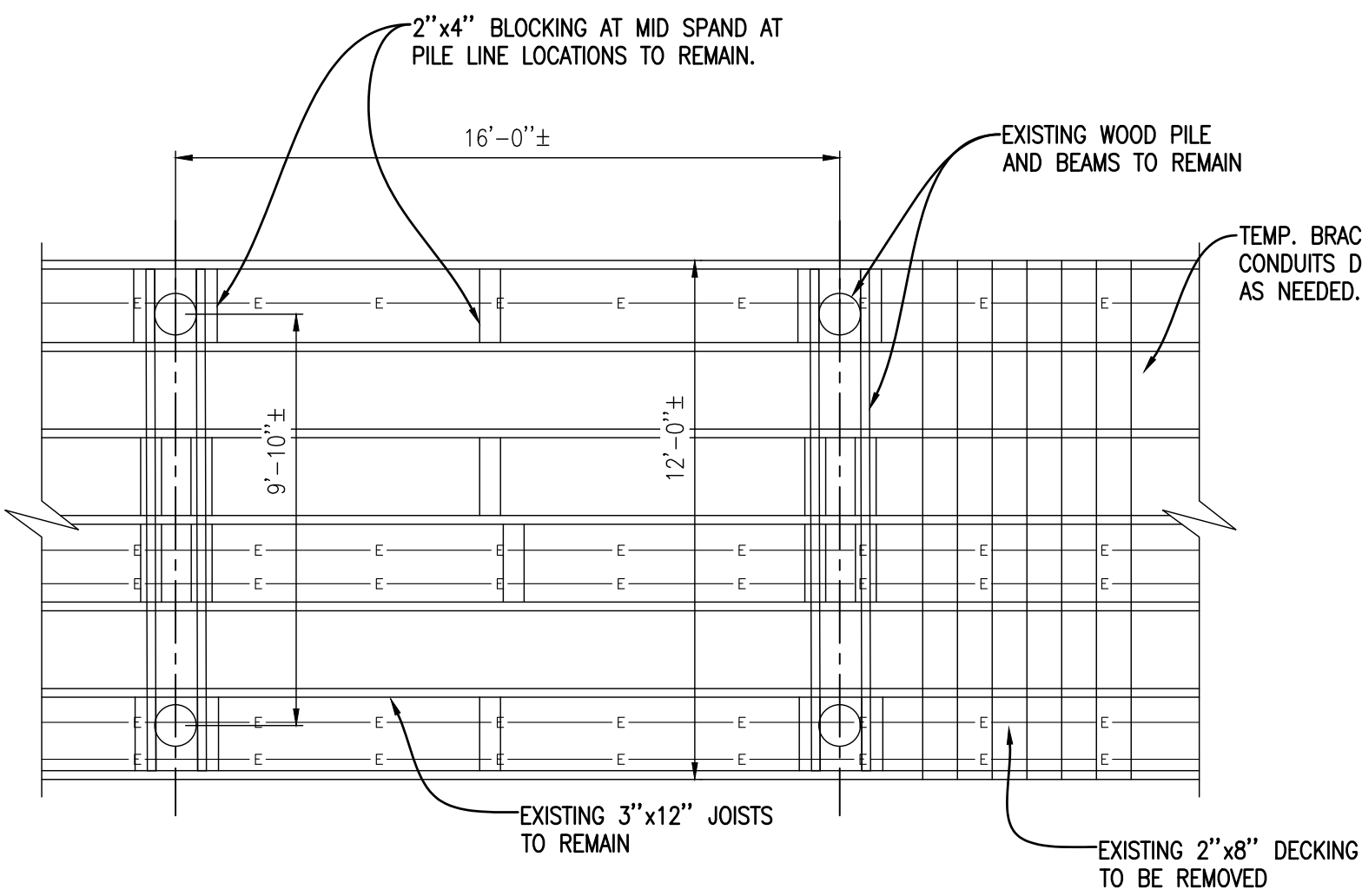
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UPDATES TO ENTIRE SHEET,
PLANS, AND DETAILS.

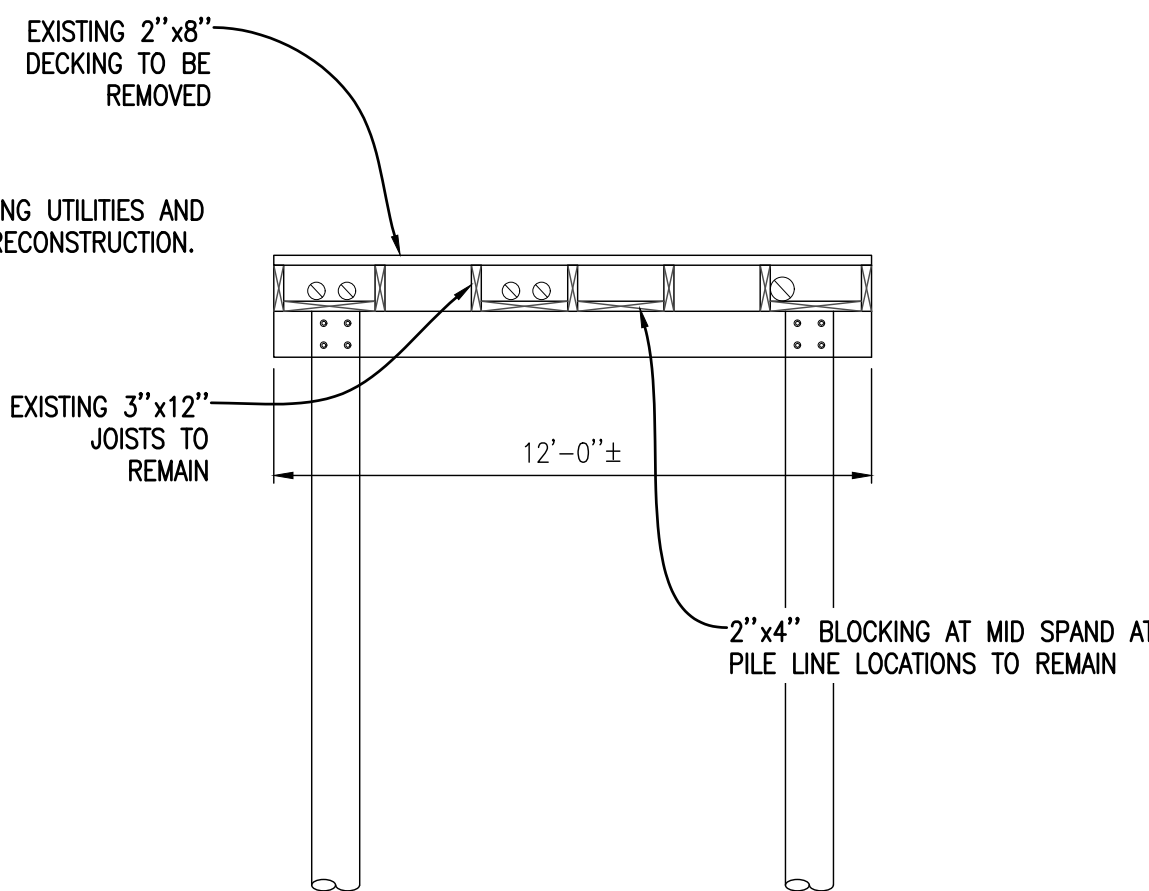


Know what's below.
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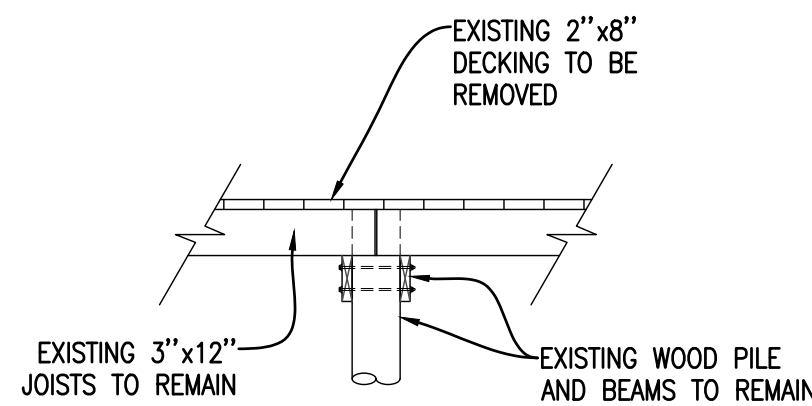
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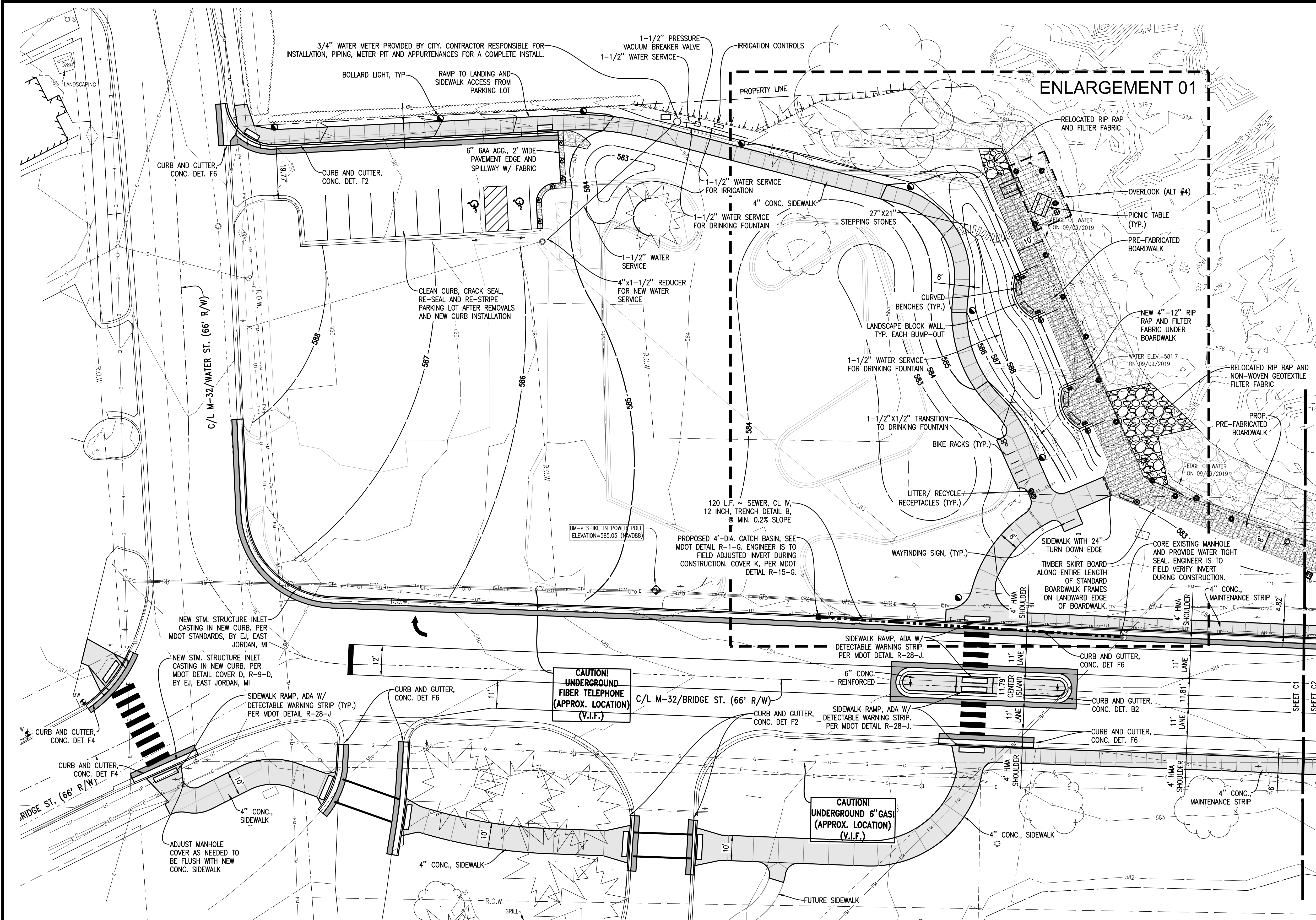
EXISTING PIER FRAMING / DEMO
SCALE: 1/4" = 1'



EXISTING MAIN MARINA PIER SECTION
SCALE: 1/4" = 1'



EXISTING PIER SECTION
SCALE: 1/4" = 1'



- General Legend**
- PROJECT LIMITS
 - EDGE OF WATER
 - EX EDGE OF GRAVEL
 - EX EDGE OF CONCRETE
 - EX OVERHEAD ELECTRIC
 - EX CONCRETE CURB
 - EX WOOD BOLLARD
 - EX CONIFEROUS TREE
 - EX DECIDUOUS TREE
 - PROP. EDGE OF ASPHALT
 - PROP. EDGE OF CONCRETE
 - EX. CONTOUR
 - PROP. CONTOUR
- Surfacing Symbol Legend**
- CONCRETE PAVING
 - ASPHALT PAVING
- REFER TO SITE FURNISHINGS SPEC 02960 AND CONSTRUCTION DETAILS FOR PRODUCT INFORMATION REGARDING ALL SITE FURNISHINGS.

- Water Service Notes**
- MINIMUM COVER ON ALL BURIED WATER LINES, 3'-0" UNLESS OTHERWISE NOTED.
 - WATER SERVICE LINES SHALL BE PVC, ASTM D2241, SDR21 OR EQUAL.
 - WATER METER SHALL BE PROVIDED BY THE CITY OF EAST JORDAN. CONTRACTOR TO SUPPLY METER PIT, PIPING, CONNECTIONS AND APPURTENANCES FOR COMPLETE INSTALL.
 - PRESSURE VACUUM BREAKER SHALL BE ECL approved MODEL WITH DEKORRA ENCLOSURE 12"x14"x23" OR LARGER TO FIT BREAKER.
 - PRESSURE TEST PER AWWA C600 TESTING REQUIREMENTS FOR AN ALLOWABLE LEAKAGE NOT TO EXCEED .12 GAL. PER 2 HR PER 1000 FEET OF PIPE.
 - CONDUCT DISINFECTION IN ACCORDANCE WITH AWWA C651.
 - DRINKING FOUNTAIN TO BE GY SERIES BY MURDOCK MODEL GYM74. SEE SITE FURNISHING SPEC FOR DETAILS.
 - SUBMIT ALL PRODUCT DATA FOR WATER SERVICE ITEMS FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
 - WATER METER PIT/ENCLOSURE TO BE 14"x19" ICV STANDARD SERIES BLACK BOX/GREEN COVER BY NDS OR APPROVED EQUAL.

3 ELIMINATED STACKED TIMBER WALL, CONC. RETAINING WALL, TIMBER PILE CLUSTERS, ROADWAY LIGHTING, AND PERGOLA.

- NEW BOARDWALK ALTERNATE.
- NEW LANDSCAPE BLOCK WALL.

LAYOUT PLAN: AREA 01
SCALE: 1" = 20'



811 Know what's below.
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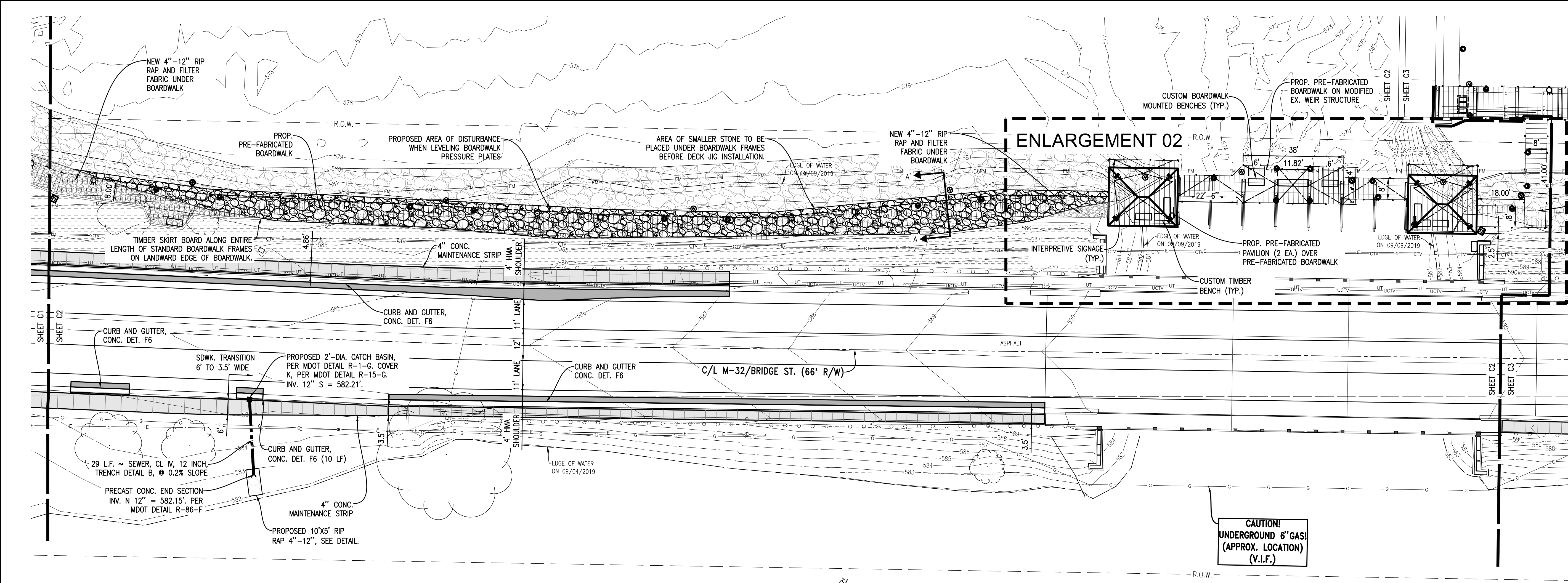
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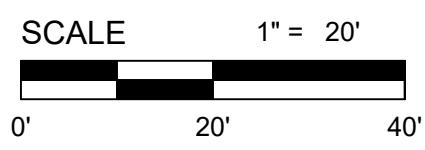
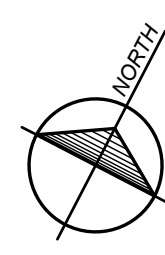
No.	Date	Revision	By
01	01-14-2020	ADDENDUM 001	DAW
02	01-22-2020	ADDENDUM 002	KSK
03	02-06-2020	POST-BID ADDENDUM 001	DAW

LAYOUT PLAN - AREA 01
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued:	12/23/2019
Date Surveyed:	09/09/2019
Designed By:	KDH
Drawn By:	DAW
Checked By:	KSK
Scale:	AS NOTED
Original sheet size is	22x34
Location:	SECTION 23 T32N R07W CHARLEVOIX COUNTY MICHIGAN
Project Number:	2019510004.03
Sheet:	C1

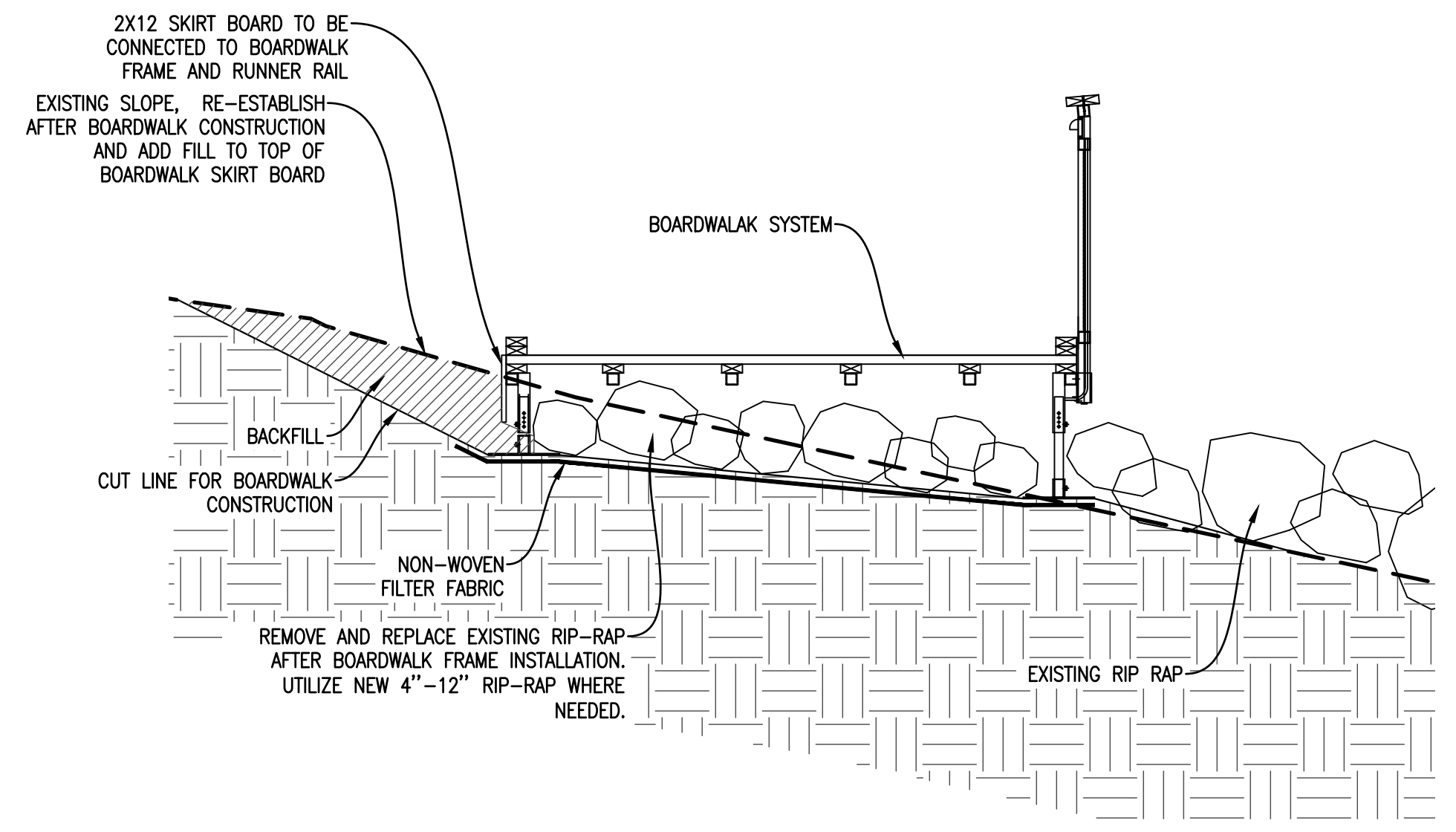


LAYOUT PLAN: AREA 02
SCALE: 1" = 20'



FURNITURE SYMBOL LEGEND		
SYMBOL	TYPE	QTY
	CURVED BENCH	4
	BENCH	2
	TRASH RECEPTACLE	2
	RECYCLE RECEPTACLE	1
	TABLE SET	2
	BOTTLE FILLER/DRINKING FOUNTAIN	1
	BIKE RACK	4

3 ELIMINATION OF SOUTH ROADWAY LIGHTING AND NEW GUARDRAIL.



TYPICAL BOARDWALK SECTION A-A'
SCALE: 1/2" = 1'-0"

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROP. EDGE OF ASPHALT
- PROP. EDGE OF CONCRETE
- EX. CONTOUR
- PROP. CONTOUR

Surfacing
Symbol Legend

- CONCRETE PAVING
- ASPHALT PAVING

REFER TO SITE FURNISHINGS SPEC 02960 AND CONSTRUCTION DETAILS FOR PRODUCT INFORMATION REGARDING ALL SITE FURNISHINGS.

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No.	Date	Revision	By
02	02-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM 001	DAW

LAYOUT PLAN - AREA 02
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

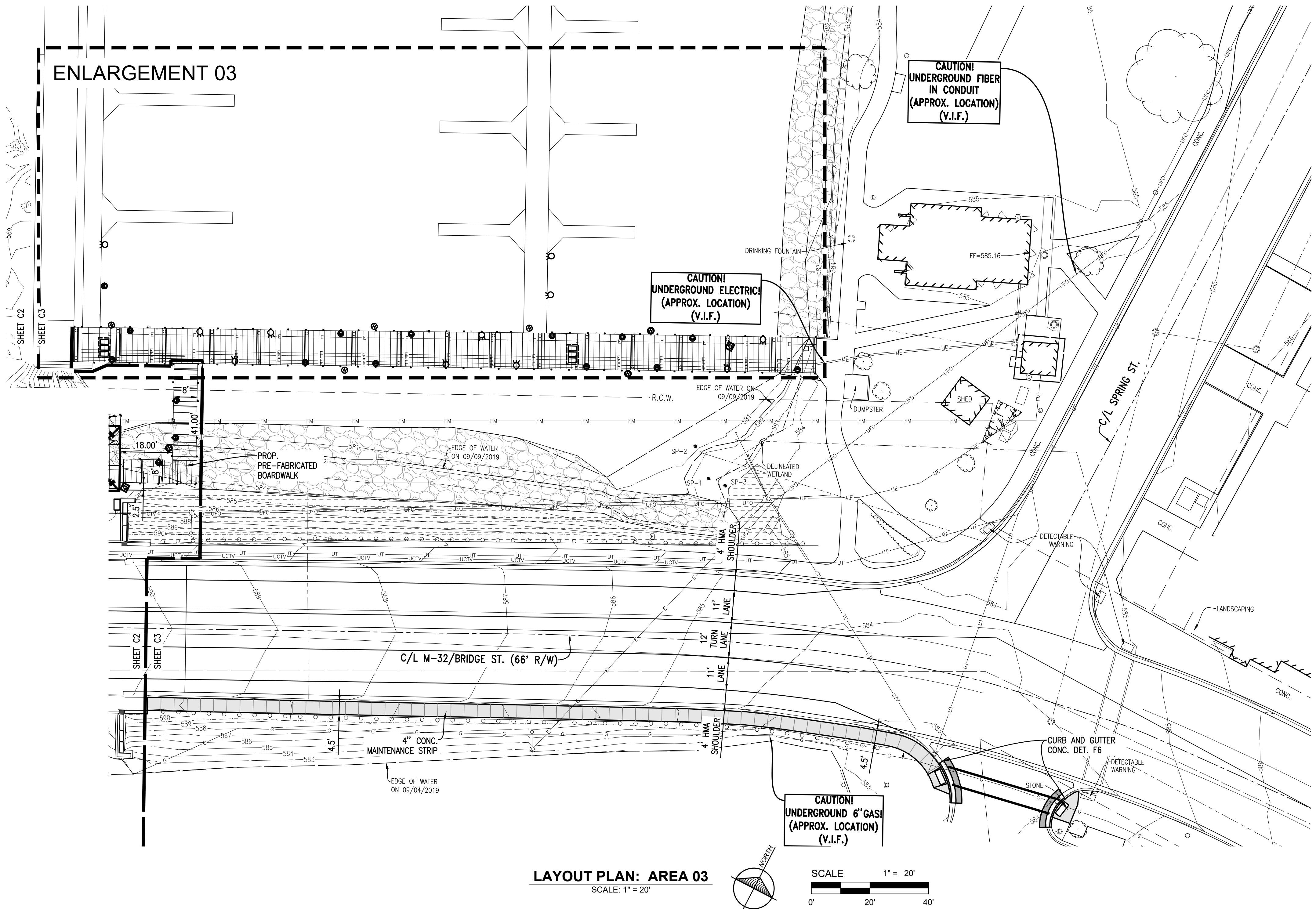
Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
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Drawn By: DAW
Checked By: KSK
Scale: AS NOTED

Original sheet size is 22x34

Location:
SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number:
2019510004.03

Sheet:
C2




- ### General Legend
- PROJECT LIMITS
 - EDGE OF WATER
 - EX EDGE OF GRAVEL
 - EX EDGE OF CONCRETE
 - EX OVERHEAD ELECTRIC
 - EX CONCRETE CURB
 - EX WOOD BOLLARD
 - EX CONIFEROUS TREE
 - EX DECIDUOUS TREE
 - PROP. EDGE OF ASPHALT
 - PROP. EDGE OF CONCRETE
 - EX. CONTOUR
 - PROP. CONTOUR

- ### Surfacing Symbol Legend
- CONCRETE PAVING
 - ASPHALT PAVING
 - PERMEABLE PAVEMENT
- REFER TO SITE FURNISHINGS SPEC 02960 AND CONSTRUCTION DETAILS FOR PRODUCT INFORMATION REGARDING ALL SITE FURNISHINGS.


3 ELIMINATION OF NEW SOUTH ROADWAY LIGHTING.

— ELIMINATION OF EAST SIDE PARK AND SPRING STREET IMPROVEMENTS.



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03	02-06-2020	POST-BID ADDENDUM 001	DAW
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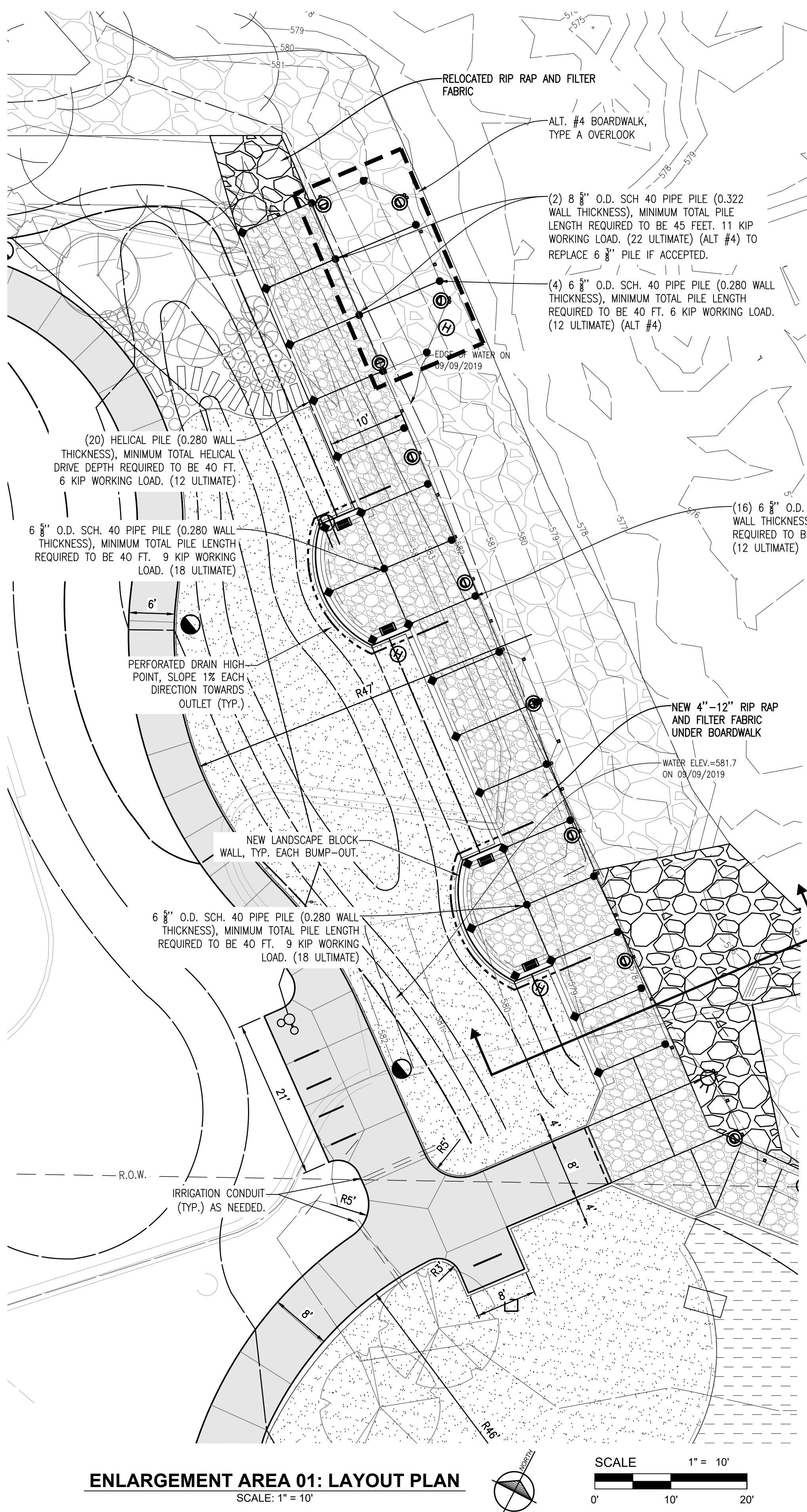
LAYOUT PLAN - AREA 03
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
Drawn By: DAW
Checked By: KSK
Scale: AS NOTED
Original sheet size is 22x34

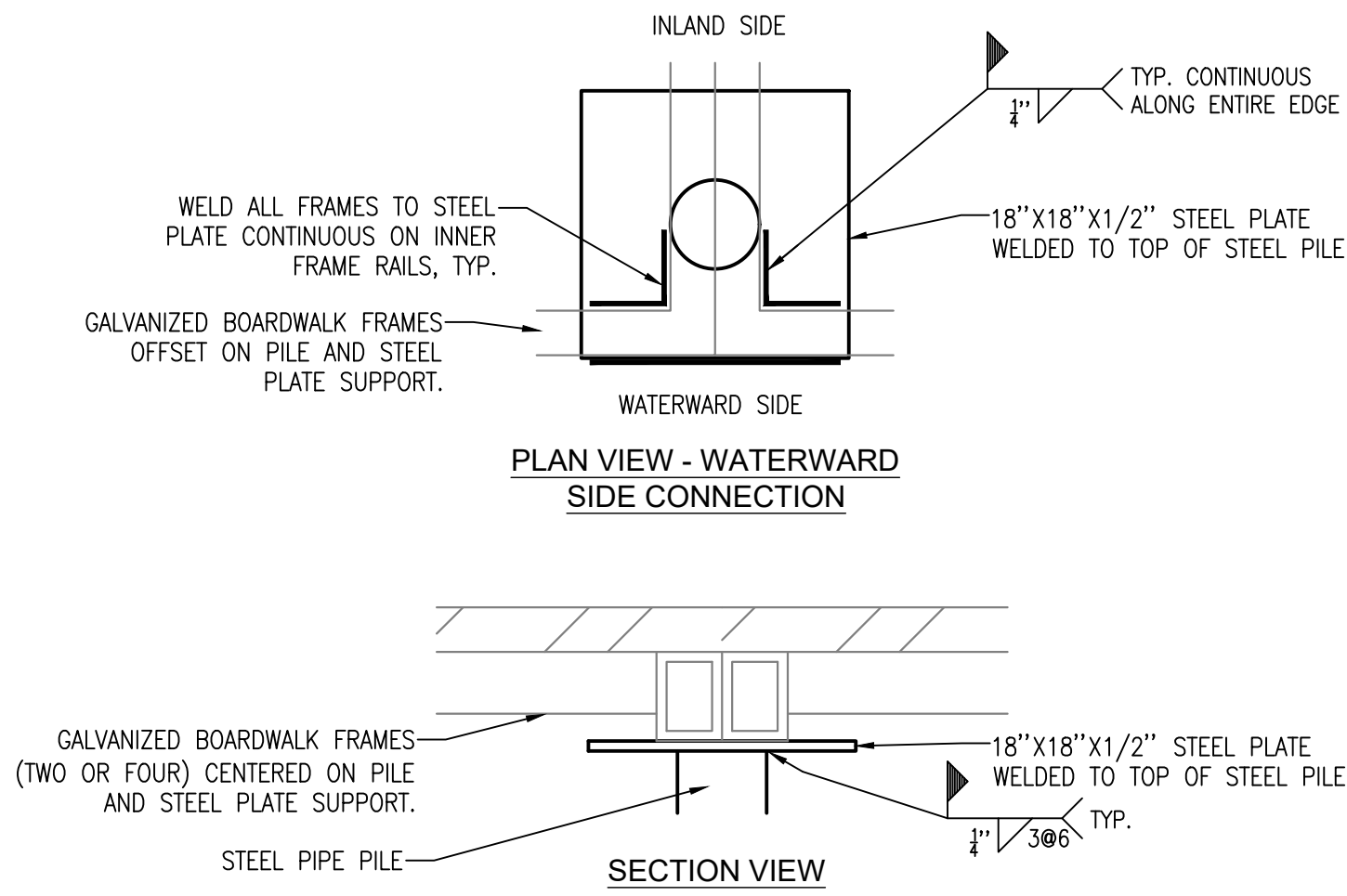
Location:
SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number:
2019510004.03

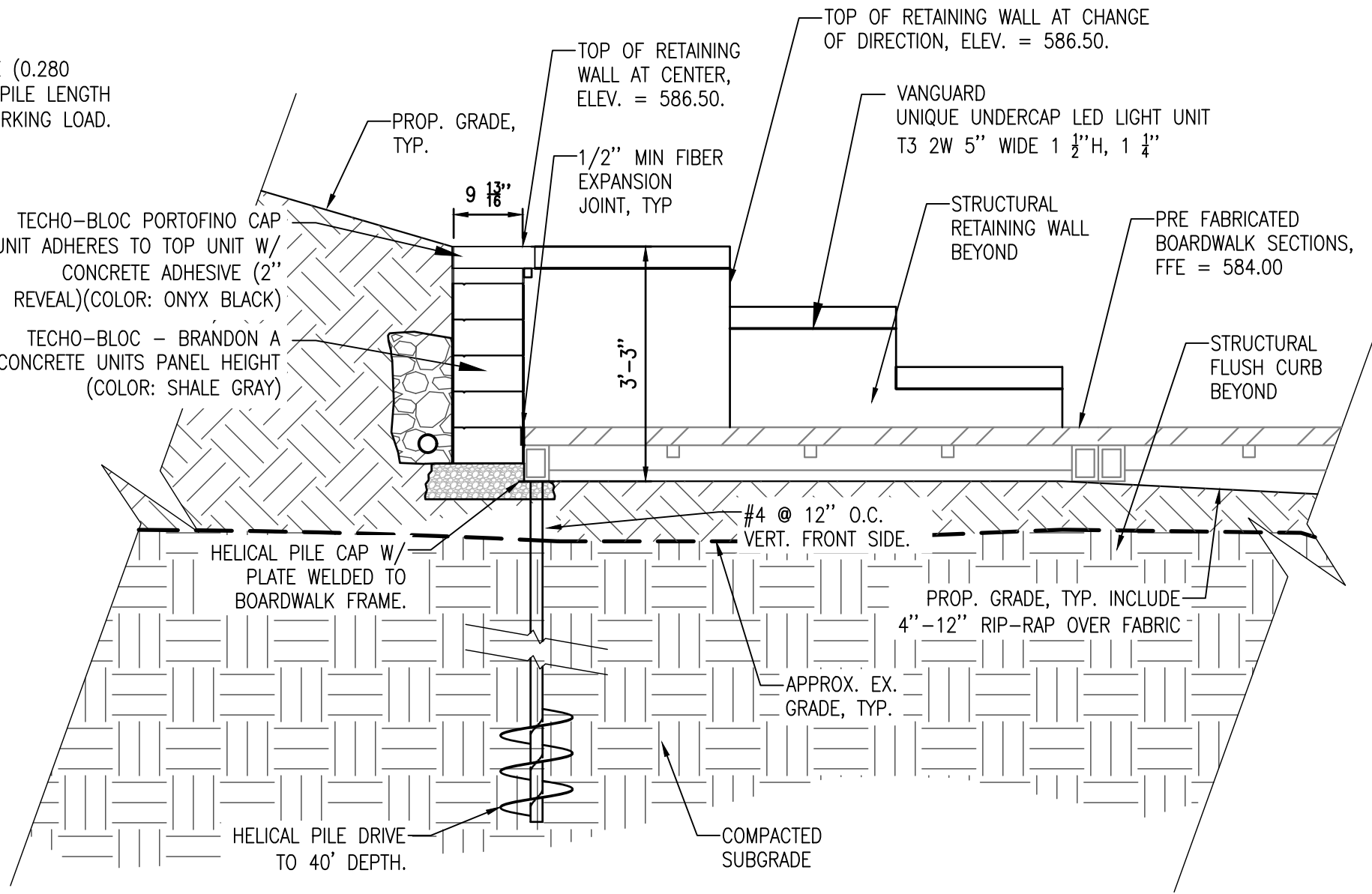
Sheet:
C3



ENLARGEMENT AREA 01: LAYOUT PLAN
SCALE: 1" = 10'

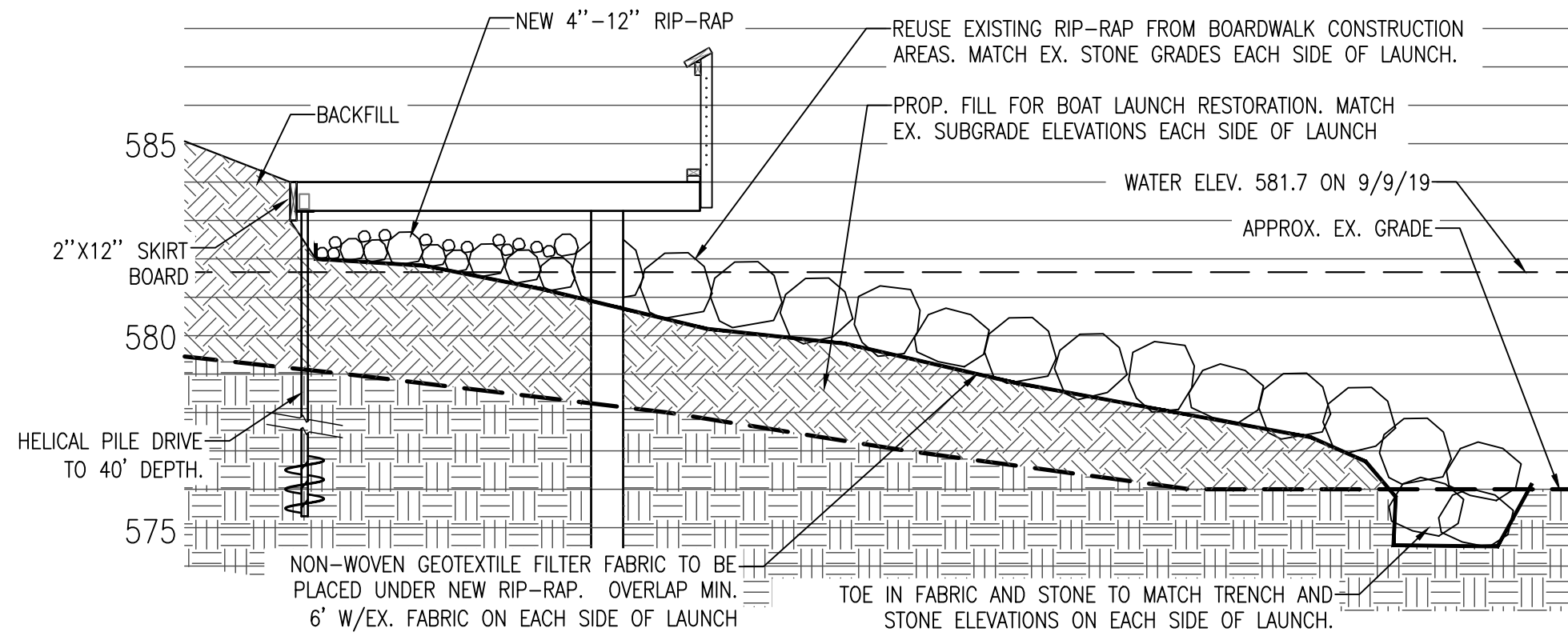


BOARDWALK FRAME TO PILE CONNECTION
SCALE: 1" = 1'-0"



STRUCTURAL RETAINING WALL
SCALE: 1/2" = 1'-0"

- HELICAL PILE NOTES:**
- HELICAL PILE DESIGN, MATERIAL, SIZING, INSTALLATION METHOD AND LOCATION SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASING AND INSTALLATION OF MATERIAL.
 - HELICAL PILES SHALL BE DESIGNED TO ACHIEVE MINIMUM LOADING CRITERIA AND AS EFFICIENT AS POSSIBLE TO MINIMIZE WASTE OF MATERIAL.
 - CONTRACTOR TO SUBMIT PILE INSTALLATION PROCEDURE, TESTING EQUIPMENT, CALIBRATION INFORMATION AND OBTAIN APPROVALS BY THE PROFESSIONAL PRIOR TO INSTALLATION.
 - CONTRACTOR TO PRODUCE PILE INSTALLATION RECORD WITH DRIVING DATA FOR EACH PILE FOR REVIEW BY THE PROFESSIONAL PRIOR TO ACCEPTANCE.
 - FINAL HELICAL PILE QUANTITY SHALL BE DETERMINED BY APPROVED BOARDWALK SHOP DRAWINGS AS APPROVED BY THE PROFESSIONAL.
 - HELICAL PIER SYSTEM AND BRACKETS SHALL BE SUPPLIED BY HELICAL ANCHORS, INC., 5101 BOONE AVE. MINNEAPOLIS, MN 55428; OR VIKING HELICAL ANCHORS, 7615 SMETANA LAND, SUITE 140, EDEN PRAIRIE, MN, 55344; OR APPROVED EQUAL.
 - HELICAL PILE TYPE AND QUANTITY ARE AS FOLLOWS:
 - HELICAL PILE, INSTALL TO A MIN WORKING LOAD OF 6 KIPS WORKING (12 KIPS ULTIMATE) TO A MINIMUM DEPTH OF 40'.
 - BASE BID QTY.: 20 EA



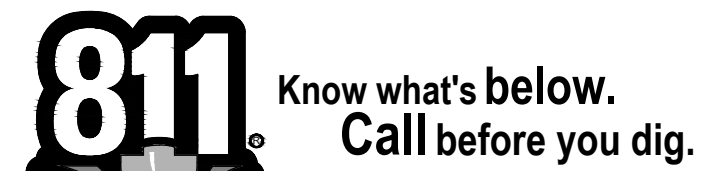
BOAT LAUNCH RESTORATION SECTION
SCALE: 1/4" = 1'-0"

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROP. EDGE OF ASPHALT
- PROP. EDGE OF CONCRETE
- EX. CONTOUR
- PROP. CONTOUR

Surfacing Symbol Legend

- CONCRETE PAVING
- ASPHALT PAVING



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- 3** REMOVAL OF PROPOSED CONCRETE WALL AND CURB.
- NEW HELICAL PILE INFORMATION.
 - NEW BOARDWALK ALTERNATE.

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By	DAW	DAW
Revision	POST-EID ADDENDUM 001	ADDENDUM 001
Date	02-06-2020	01-14-2020
No.	01	01

ENLARGEMENT LAYOUT - AREA 01
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
Drawn By: DAW
Checked By: KSK
Scale: AS NOTED

Original sheet size is 22x34

Location: SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

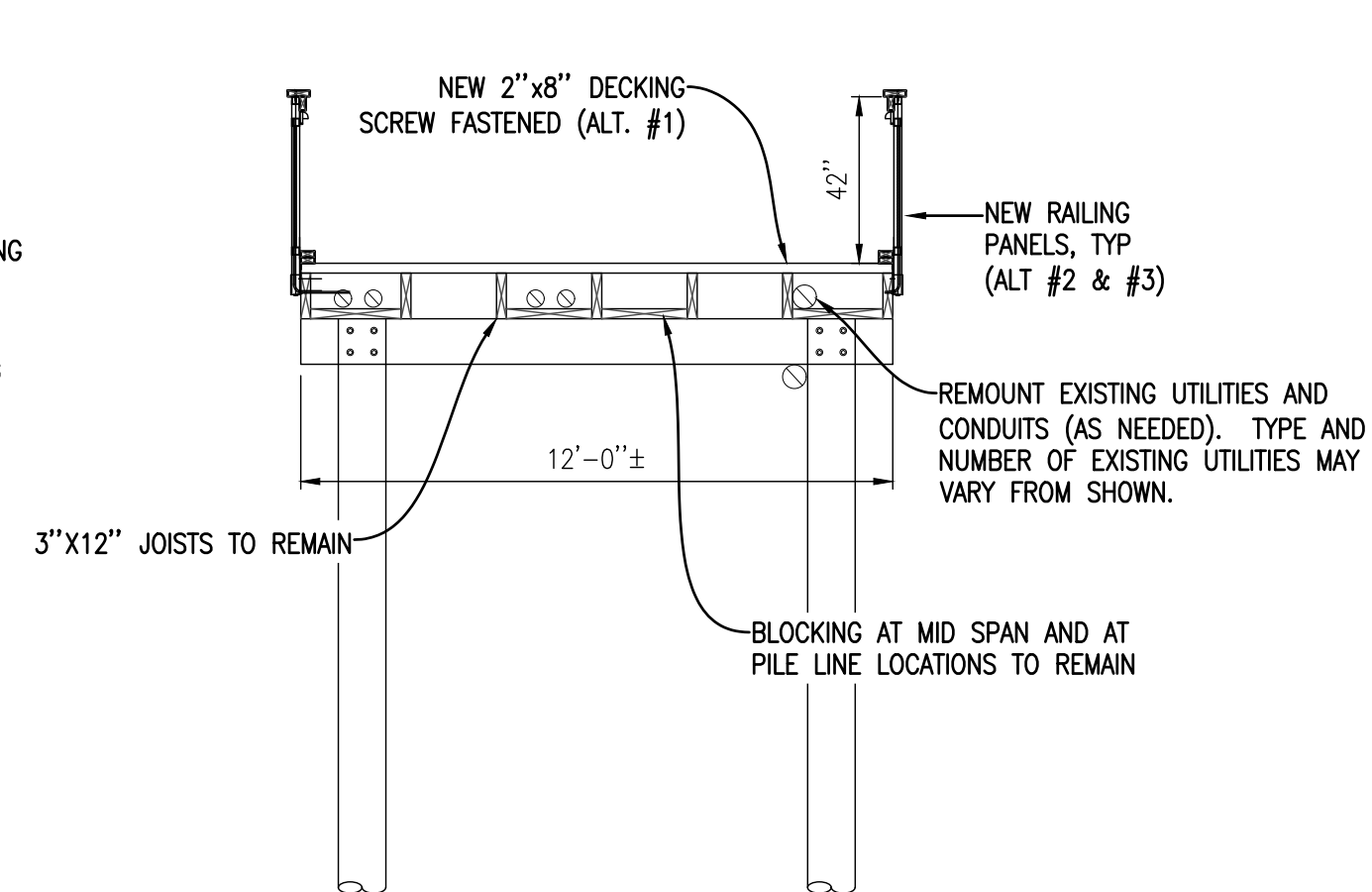
Project Number: 2019510004.03

Sheet: C4

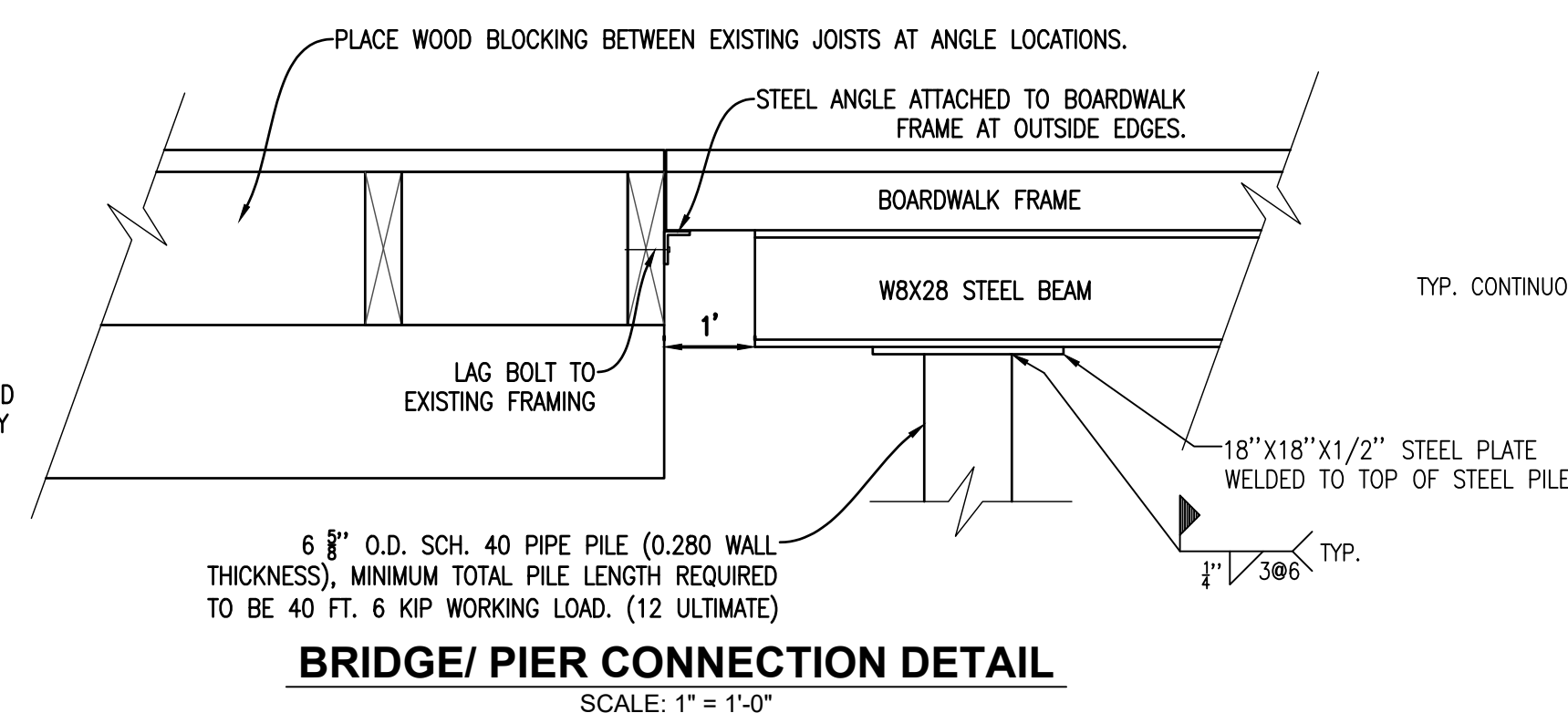
	PROJECT LIMITS
	EDGE OF WATER
	EX EDGE OF GRAVEL
	EX EDGE OF CONCRETE
	EX OVERHEAD ELECTRIC
	EX CONCRETE CURB
	EX WOOD BOLLARD
	EX CONIFEROUS TREE
	EX DECIDUOUS TREE
	PROP. EDGE OF ASPHALT
	PROP. EDGE OF CONCRETE
	EX. CONTOUR
	PROP. CONTOUR
	PICNIC TABLE
	TRASH RECEPTACLE

CONCRETE PAVING

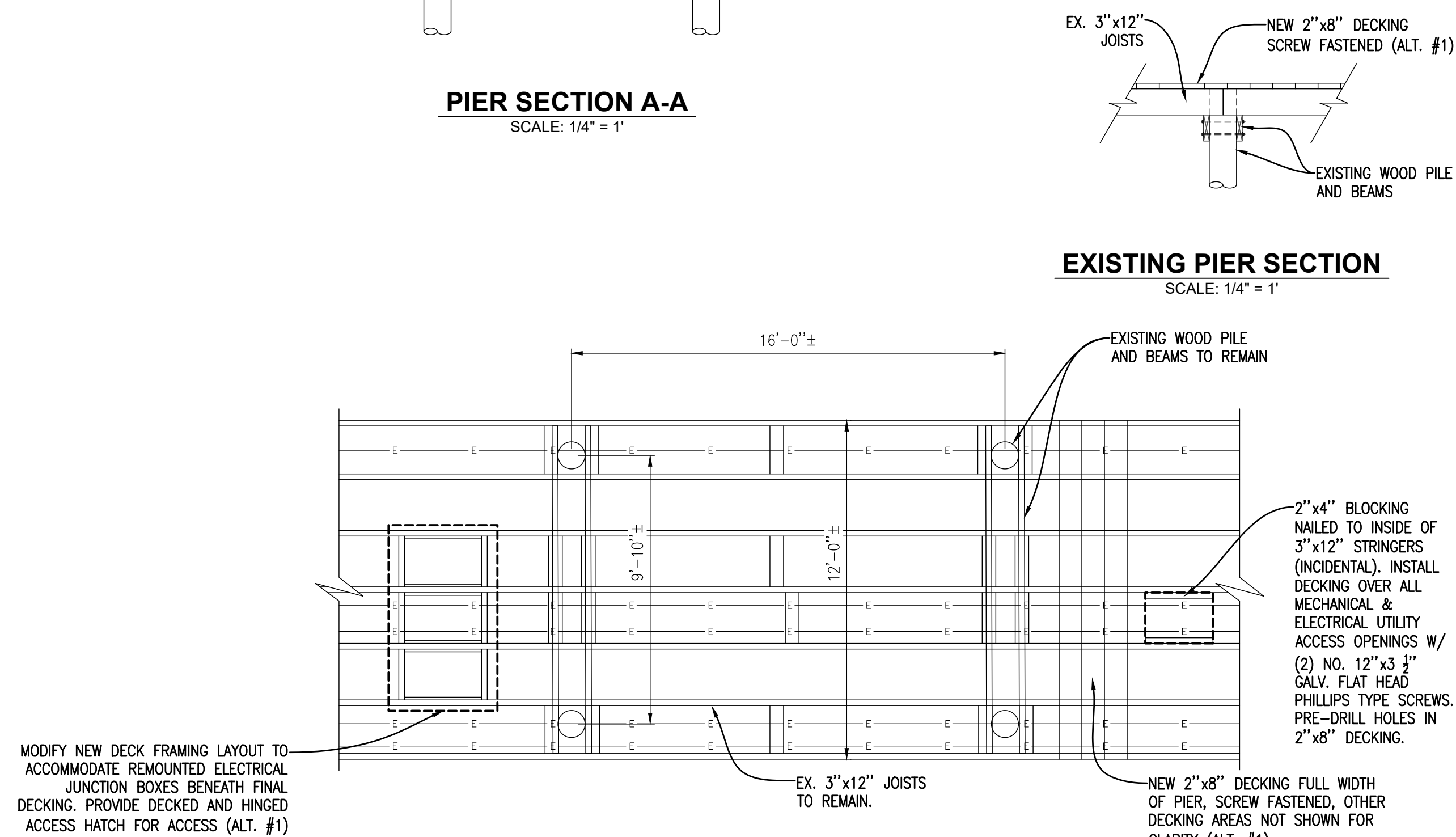
ASPHALT PAVING



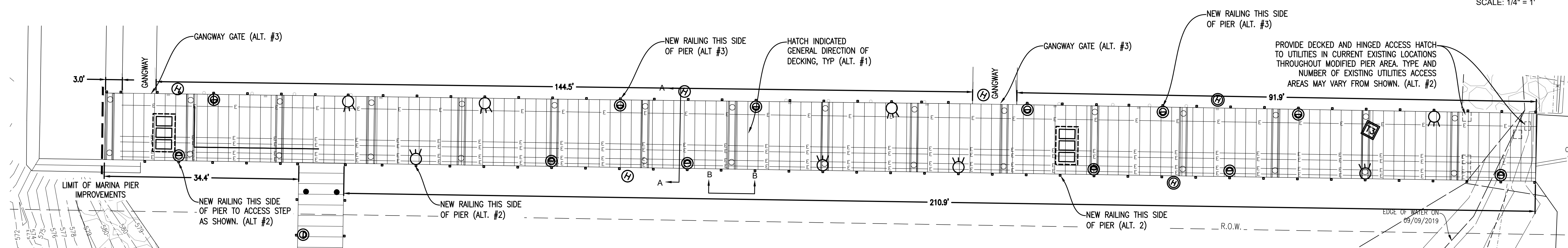
PIER SECTION A-A
SCALE: 1/4" = 1'



EXISTING PIER SECTION
SCALE: 1/4" = 1'

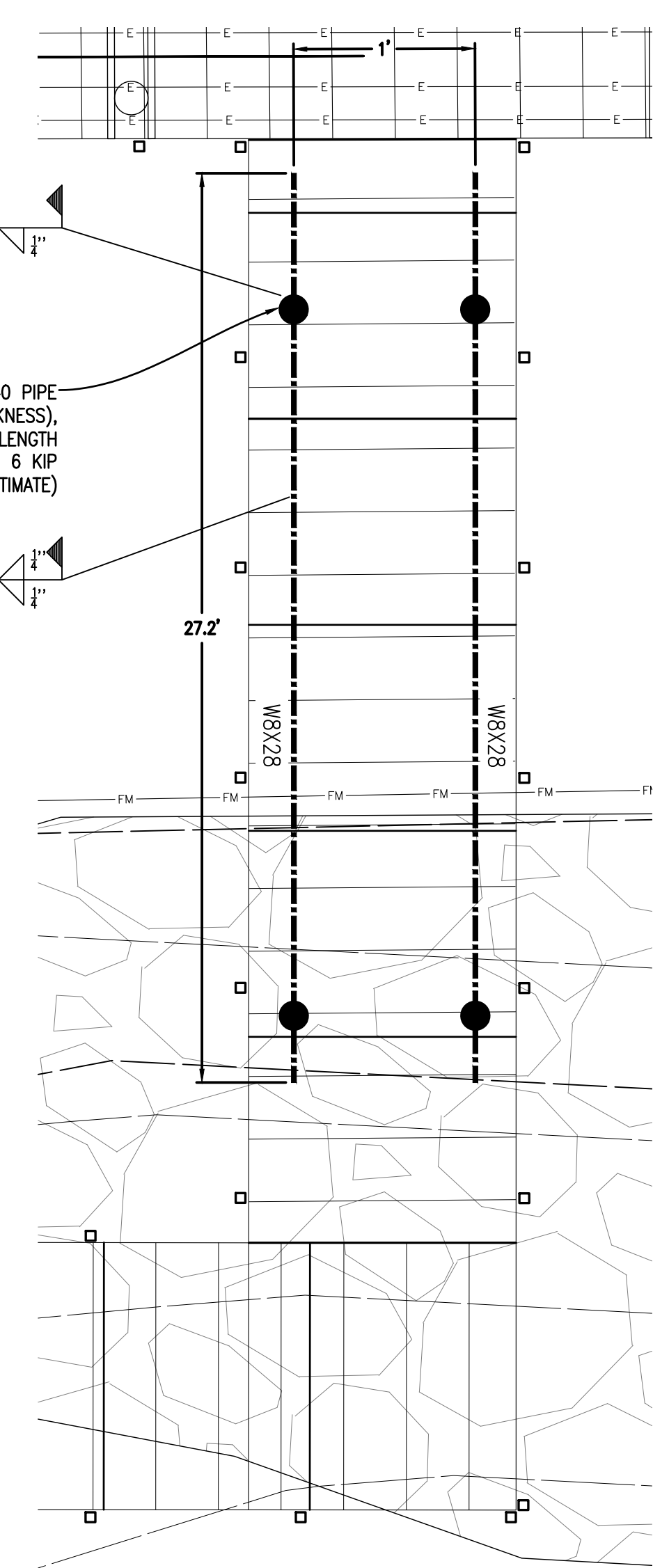
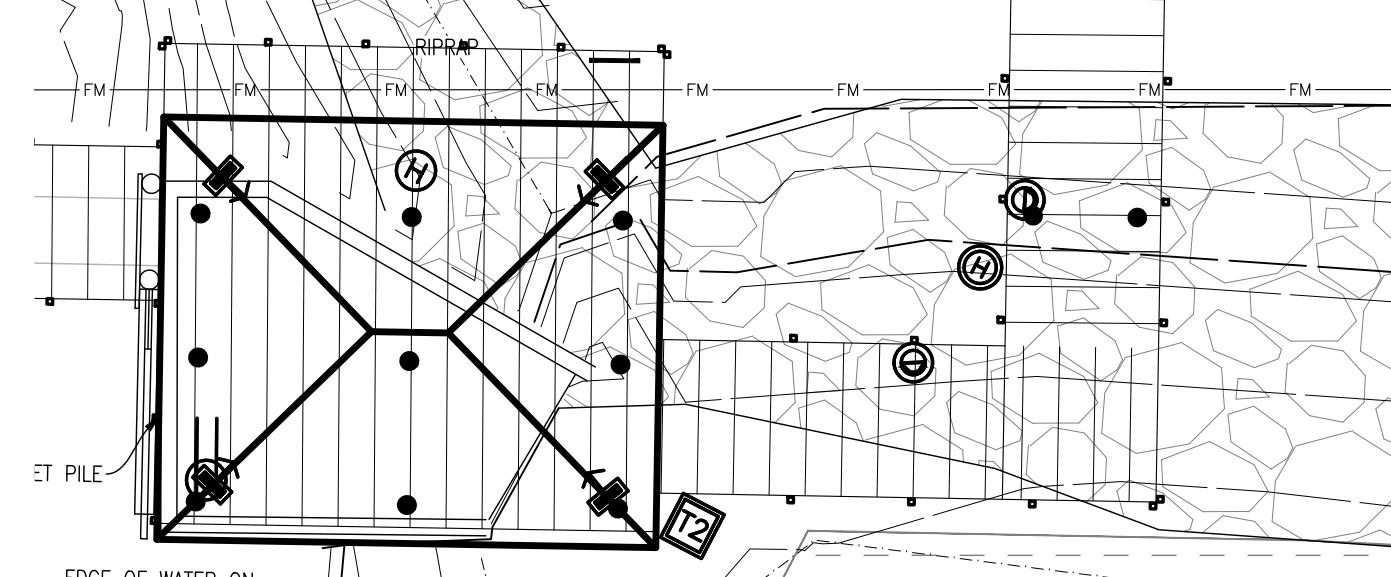


TYP. PIER FRAMING AND DECKING
SCALE: 1/4" = 1'



MARINA PIER LAYOUT

SCALE: 1" = 10'



CONNECTOR BRIDGE LAYOUT

SCALE: 1/4" = 1'

**CIVIL ENGINEERING
SURVEYING
ENVIRONMENTAL SERVICES
GEOTECHNICAL
CONSTRUCTION SERVICES
DRILLING
LANDSCAPE ARCHITECTURE**

[illegible]

ENLARGEMENT LAYOUT - AREA 03
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued:	12/23/2019
Date Surveyed:	09/09/2019
Designed By:	KDH
Drawn By:	DAW
Checked By:	KSK
Scale:	AS NOTED
Original sheet size is 22x34	

Location:
SECTION 23
T32N R07W
CHARLEVOIX COUNTY
MICHIGAN

Project Number:
2019510004.03

C8

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

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

No.	Date	Revision	By
02	02-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM 001	DAW

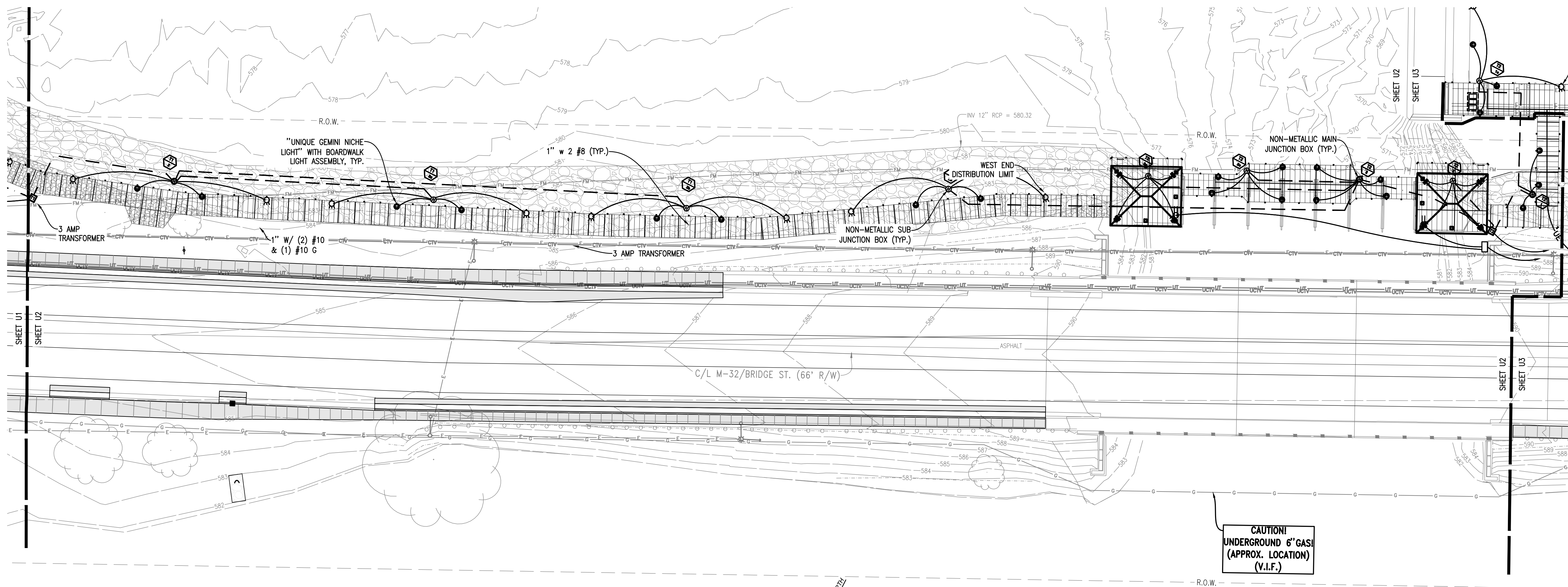
ELECTRICAL PLAN - AREA 02
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued: 12/23/2019
Date Surveyed: 09/09/2019
Designed By: KDH
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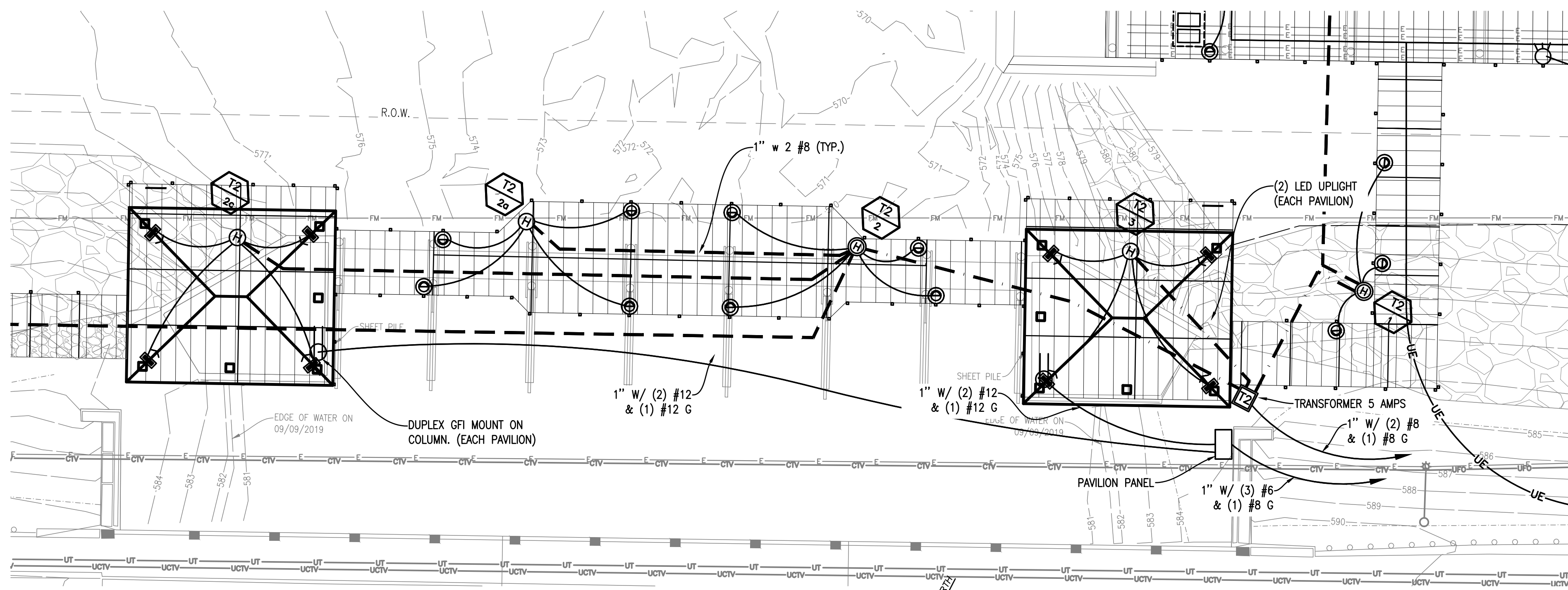
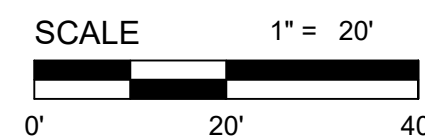
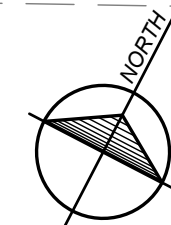
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CHARLEVOIX COUNTY
MICHIGAN

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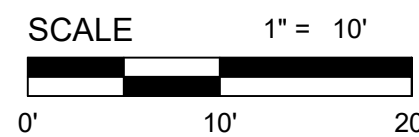
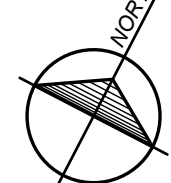
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UTILITY PLAN AREA 02
SCALE: 1" = 20'



PAVILION ELEC. PLAN
SCALE: 1" = 10'



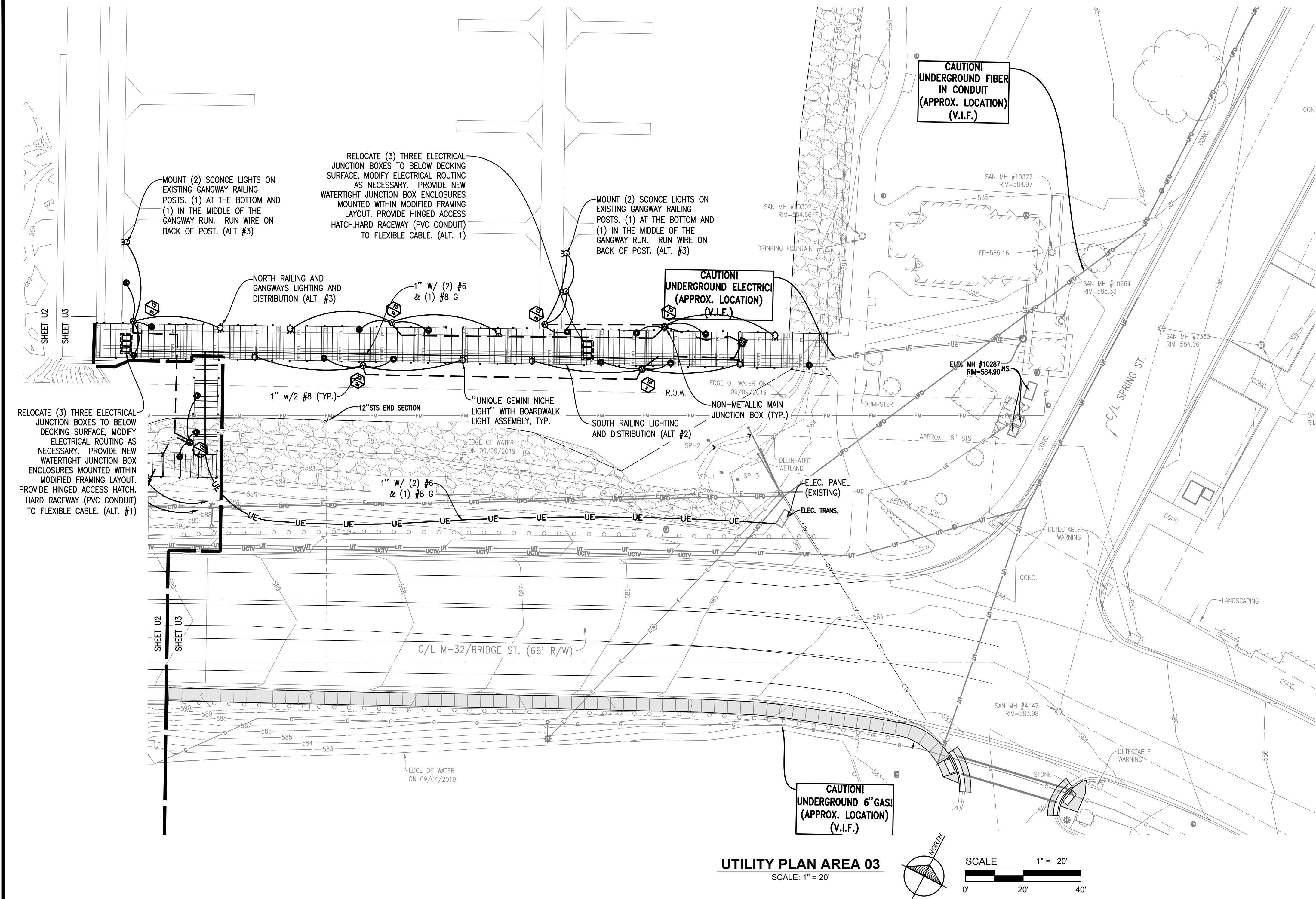
General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX UNDERGROUND ELECTRIC
- EX UNDERGROUND GAS
- EX SANITARY SEWER LINE
- EX SANITARY FORCEMAIN
- EX STORM SEWER LINE
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROP. EDGE OF ASPHALT
- PROP. EDGE OF CONCRETE
- PROP. OVERHEAD ELECTRIC
- PROP. UNDERGROUND ELEC.
- PROP. STORM SEWER LINE
- PROP. CONCRETE CURB

3 ELIMINATION OF NEW SOUTH ROADWAY LIGHTING AND DISTRIBUTION.



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 - PROP. STORM SEWER LINE
 - PROP. CONCRETE CURB

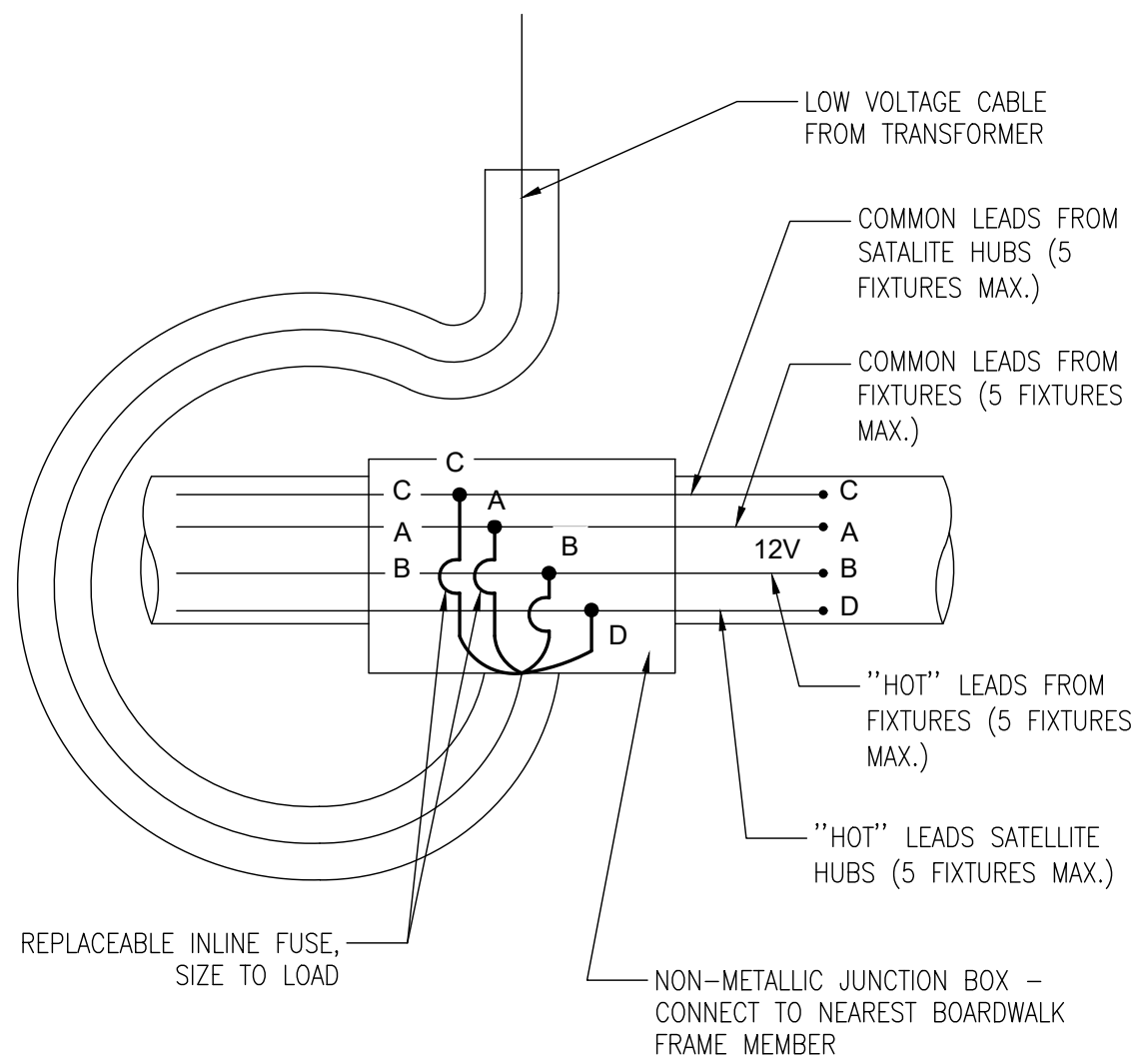
ELECTRICAL PLAN - AREA 03
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

Date Issued:	12/23/2019
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Designed By:	KDH
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Original sheet size is 22x34	
Location:	SECTION 23 T32N R07W CHARLEVOIX COUNTY MICHIGAN
Project Number:	2019510004.03
Sheet:	E3

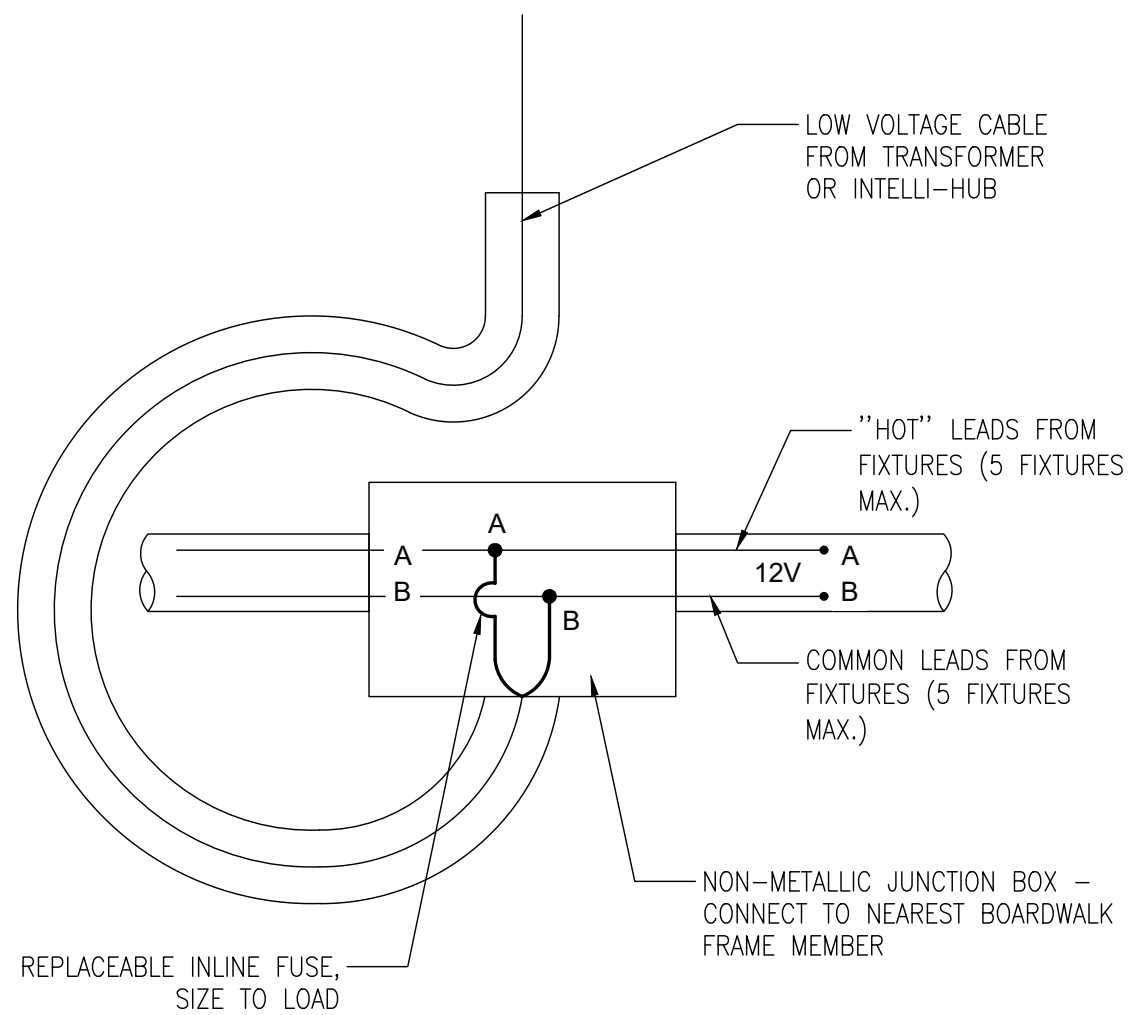


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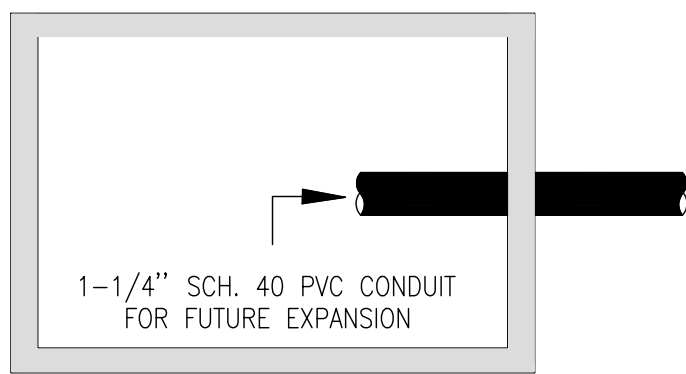
No.	Date	Revision	By
02	12-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM 001	DAW



SUB JUNCTION BOX DETAIL
SCALE: NTS

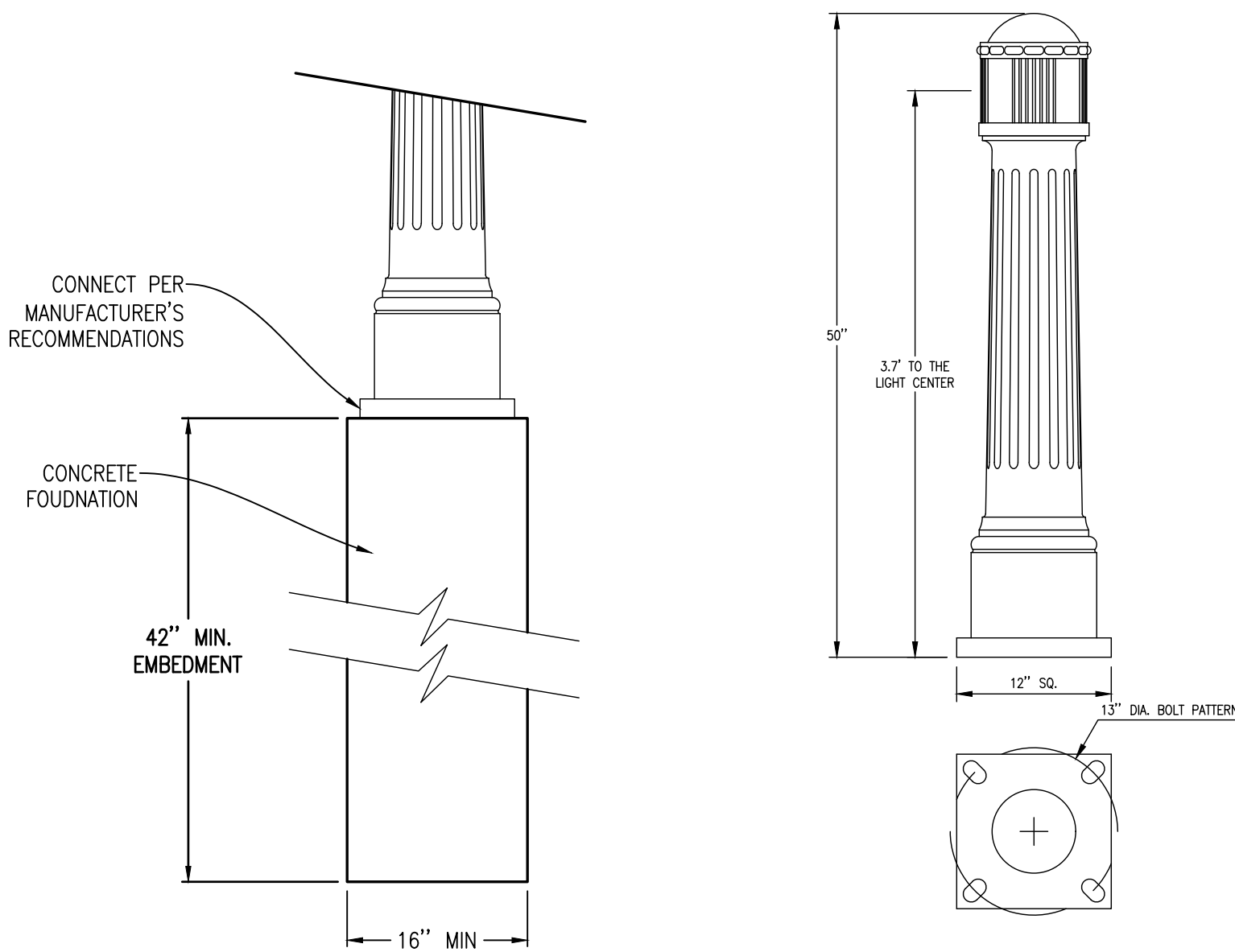


MAIN JUNCTION BOX DETAIL
SCALE: NTS

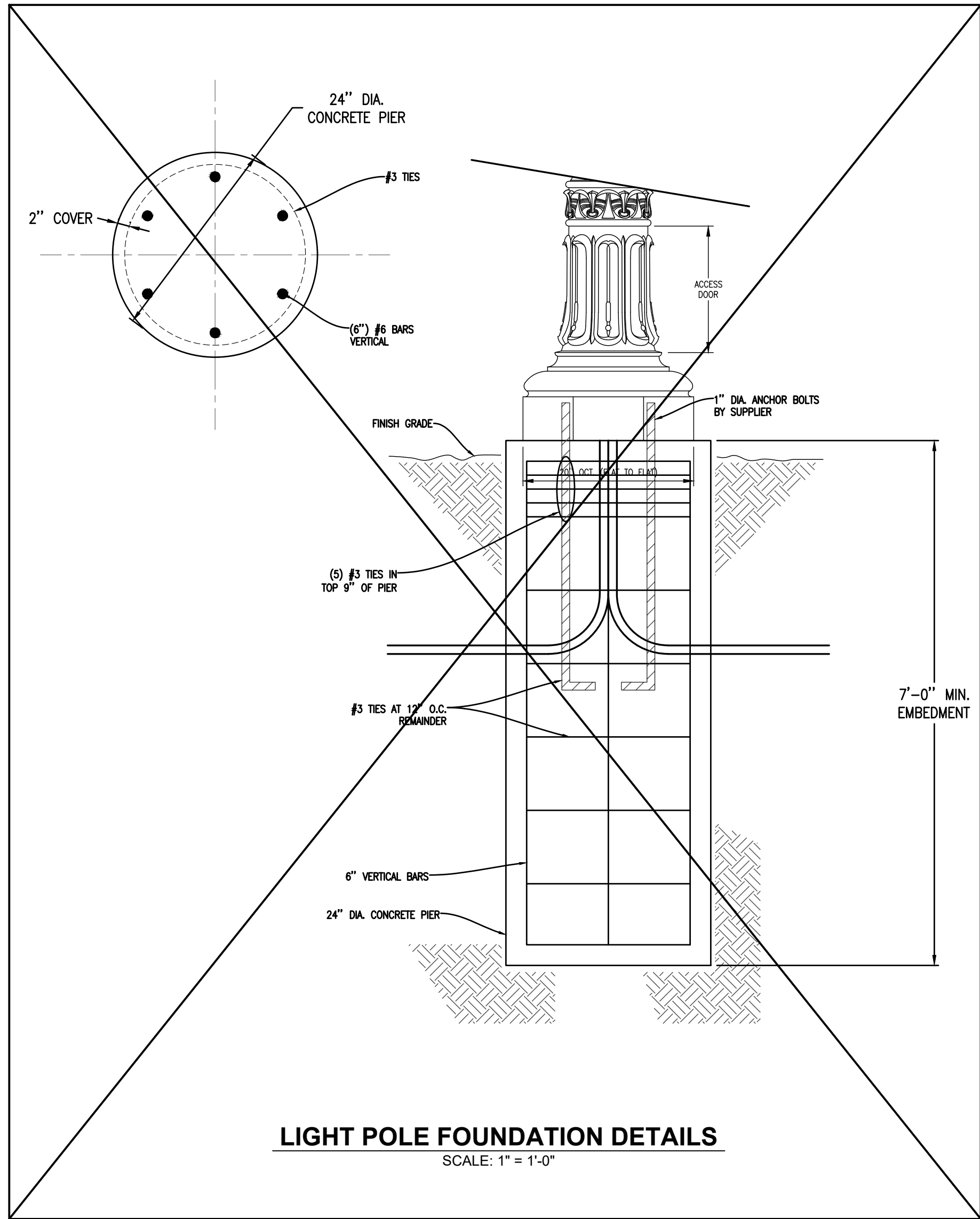


12"x18"x12" DEEP QUAZITE BOX
HAND HOLE AT GRADE LEVEL QUAZITE
12"x18"x12" DEEP W/ TYPE 3
"ELECTRIC" LABELED COVER. CIRCUIT
AS SHOWN ON DRAWINGS.

TYPICAL QUAZITE GROUNDBOX WIRING DETAIL
SCALE: NTS



BOLLARD FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



LIGHT POLE FOUNDATION DETAILS
SCALE: 1" = 1'-0"

PANEL PAVILIONS					
60 AMP MLO 240/120 VOLT 1 PHASE 3 WIRE SURFACE MOUNT TOP FEED NEMA 3R 22K AIC					
CIR.	DESCRIPTION	BREAKER	BREAKER	DESCRIPTION	CIR.
1	WEST PAVILION GFCI RECEPTACLE	1P20	1P20	EAST PAVILION GFCI RECEPTACLE	2
3					4
5					6
7					8
9					10
11					12

PAVILION ELEC. PANEL
SCALE: NTS

PANEL M-32 EAST SIDE (EXISTING)					
200 AMP MCB 240/120 VOLT 1 PHASE 3 WIRE SURFACE MOUNT TOP FEED NEMA 3R SERVICE ENTRANCE RATED 22K AIC					
CIR.	DESCRIPTION	BREAKER	BREAKER	DESCRIPTION	CIR.
1	SOUTH LIGHTS	2P20	1P20	CONVENIENCE RECEPTACLE	2
3			2P60	PAVILION SUBPANEL	4
5	NORTH LIGHTS	2P20			6
7			2P30	M-32 BRIDGE LIGHTING VIA CONTACTOR	8
9	SURGE PROTECTIVE DEVICE (SPD)	2P20			10
11			2P30	M-32 STREET LIGHTING VIA CONTACTOR	12
**	13	1P20			14
15	ACCENT LIGHTING VIA CONTACTOR	2P30	1P20		16
17					18
19					20
21					22
23					24
25					26
27					28
29					30
BOLD INDICATE EXISTING TO REMAIN					
** PROVISIONS REQUIRED TO CONNECT CONDUCTORS OVERSIZED TO COMPENSATE FOR VOLTAGE DROP					

EAST SIDE ELEC. PANEL
SCALE: NTS

PANEL M-32 WEST SIDE (NEW)						
200 AMP MCB 240/120 VOLT 1 PHASE 3 WIRE SURFACE MOUNT TOP FEED NEMA 3R SERVICE ENTRANCE RATED 22K AIC						
	CIR.	DESCRIPTION	BREAKER	BREAKER	DESCRIPTION	CIR.
**	1	ACCENT LIGHTING VIA CONTACTOR	1P20	1P20	CONVENIENCE RECEPTACLE	2
	3	BOARDWALK RECEPTACLE	1P20	2P30	BOARDWALK LIGHTING VIA CONTACTOR	4
	5					6
	7					8
	9					10
	11					12
	13					14
	15					16
	17					18
	19					20
	21					22
	23					24
	25					26
**	27	SURGE PROTECTIVE DEVICE (SPD)	2P20			28
	29					30
		** PROVISIONS REQUIRED TO CONNECT CONDUCTORS OVERSIZED TO COMPENSATE FOR VOLTAGE DROP				

WEST SIDE ELEC. PANEL
SCALE: NTS

No.	Date	Revision	By
02	02-06-2020	POST-FID ADDENDUM 001	DAW
01	01-14-2020	ADDENDUM 001	DAW

By	Revision	Date	No.
DAW	POST-BID ADDENDUM 001	02-06-2020	01

LANDSCAPE & IRRIGATION PLAN - AREA 02
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

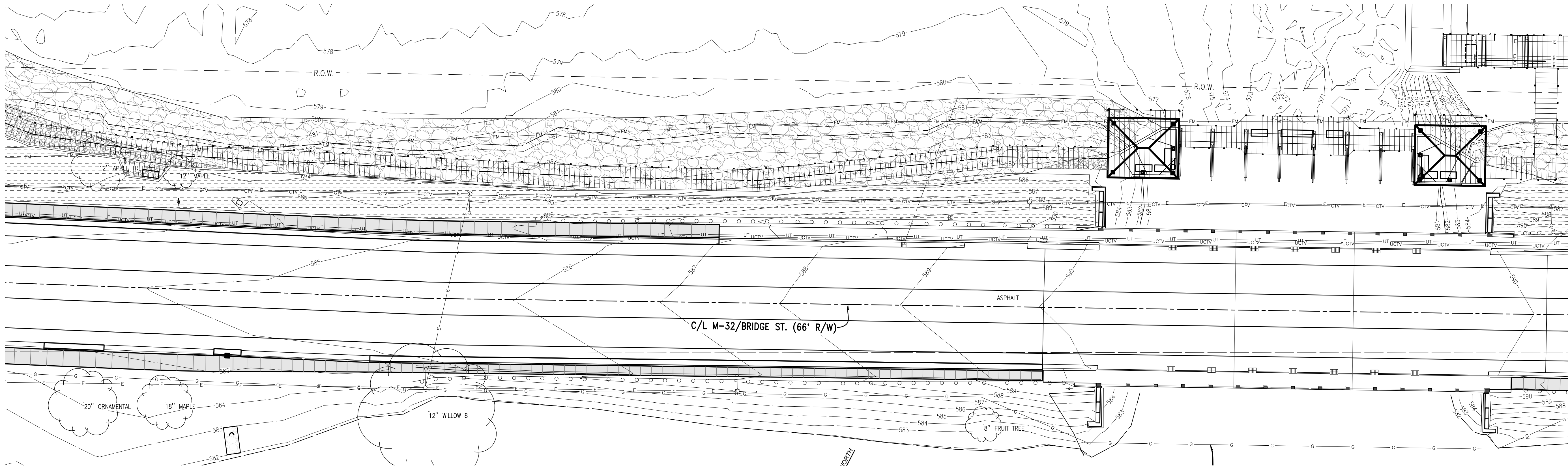
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CHARLEVOIX COUNTY
MICHIGAN

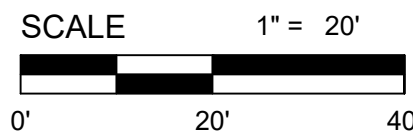
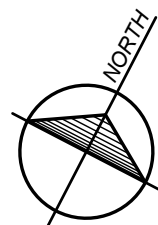
Project Number:
2019510004.03

Sheet:

L2



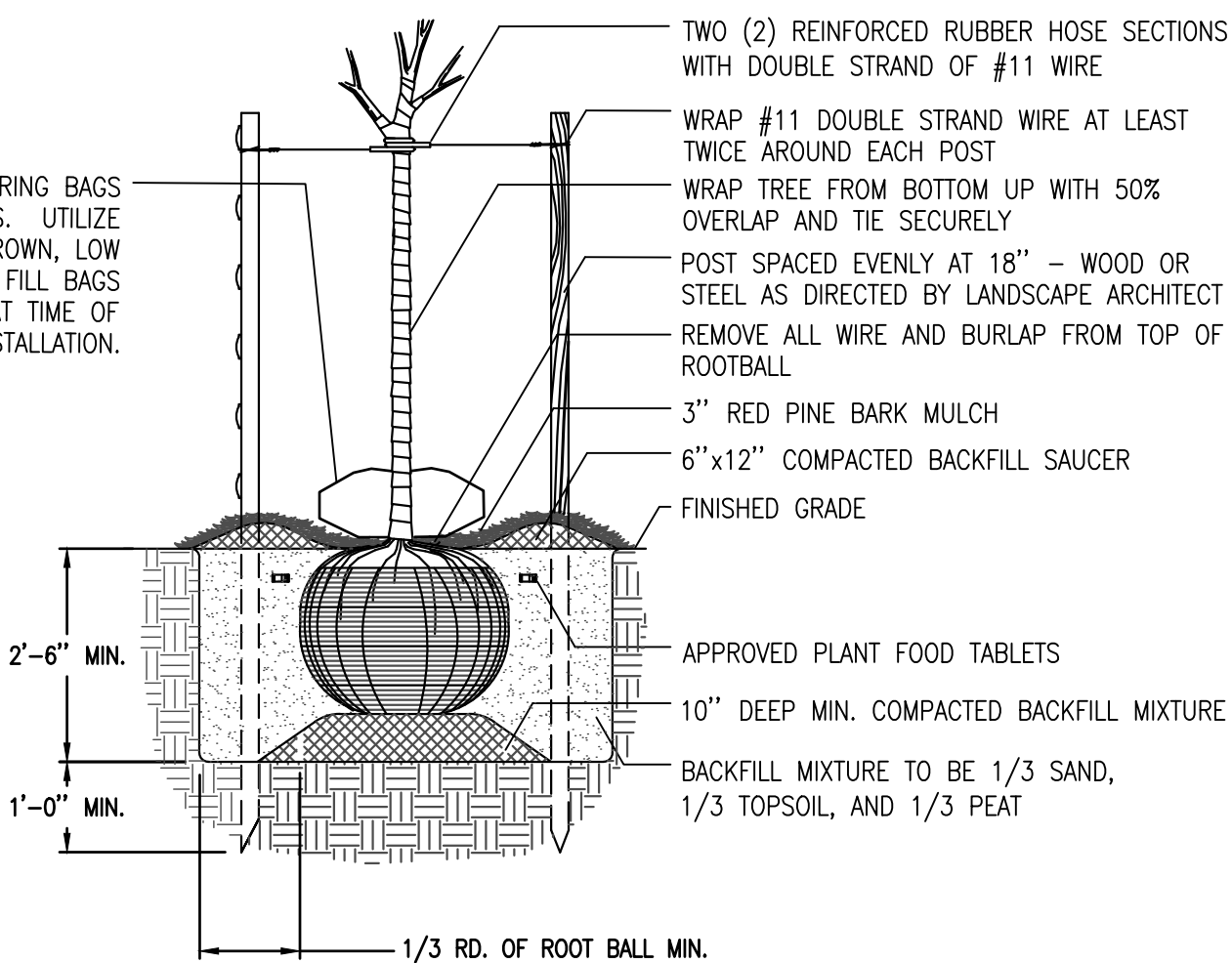
LANDSCAPE PLAN - AREA 02
SCALE: 1" = 20'



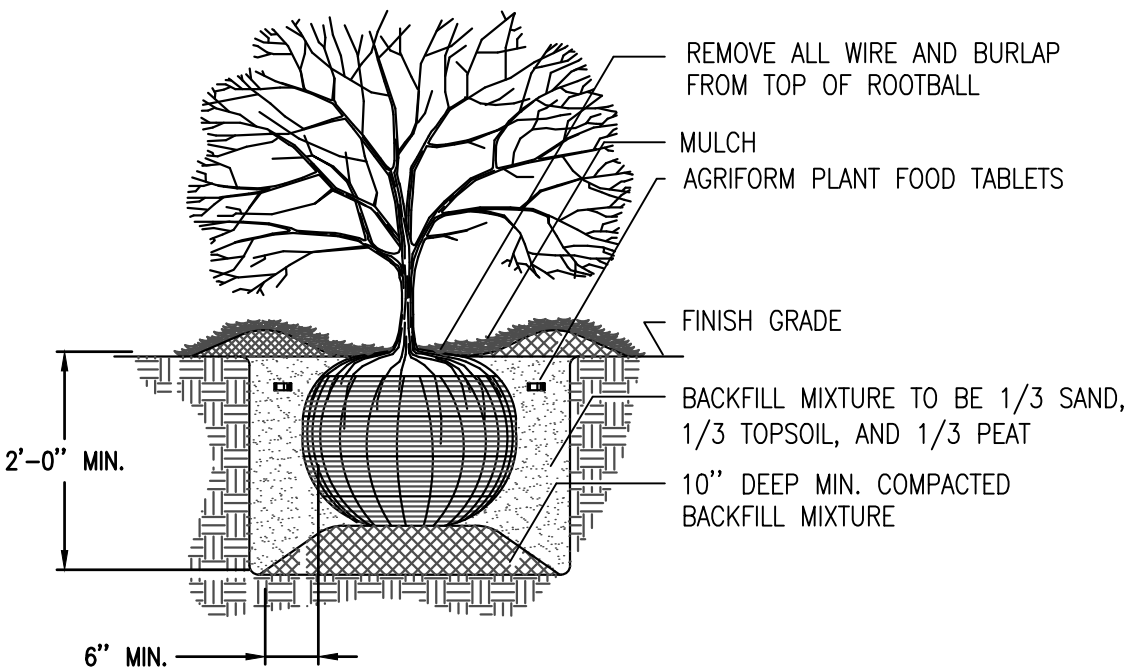
Key	Botanical Name Common Name	Min. Size Required	Qty.	Notes
DECIDUOUS TREES				
A.r.	<i>Acer rubrum</i> 'October Glory' 'October Glory' Red Maple	2.5' Cal. B&B	2	
B.n.	<i>Betula nigra</i> River Birch	7' Ht. B&B	1	Multi-Stem (Min. 3 Stem)
A.c.	<i>Amelanchier canadensis</i> Shadblow Serviceberry	7' Ht. B&B	2	Multi-Stem (Min. 3 Stem)
EVERGREEN TREES				
T.d.	<i>Taxodium distichum</i> Bald Cypress	8' Ht. B&B	0	
DECIDUOUS SHRUBS				
V.d.	<i>Viburnum dentatum</i> Arrowwood Viburnum	#5 Pot	3	
F.i.	<i>Forsythia x intermedia</i> Border Forsythia	#5 Pot	1	
P.o.	<i>Physocarpus opulifolius</i> Common Ninebark	#5 Pot	3	
C.s.	<i>Cornus sericea</i> 'Insanti' 'Insanti' Red Osier Dogwood	#5 Pot	5	
S.j.	<i>Spiraea japonica</i> Japanese Spirea	#3 Pot	7	
C.a.	<i>Cornus amomum</i> Silky Dogwood	#5 Pot	1	
R.r.	<i>Rosa</i> 'Radtkopink' Knockout Rose	#3 Pot	6	
H.t.	<i>Hylotelephium telephium</i> 'Autumn Joy' Autumn Joy Sedum	#3 Pot	0	
EVERGREEN SHRUBS				
C.p.	<i>Chamaecyparis pisifera</i> 'Golden Mop' Gold Mop Threadleaf False Cypress	#3 Pot	5	
GRASSES				
P.a.	<i>Pennisetum alopecuroides</i> 'Hameln' Dwarf Fountain Grass	#1 Pot	7	
C.k.	<i>Calamagrostis x acutiflora</i> 'Karl Foerster' Feather Reed Grass	#1 Pot	5	
GROUND COVER				
J.h.	<i>Juniperus horizontalis</i> 'Wiltonii' Blue Rug Juniper	#1 Pot	0	

3

SUPPLY AND INSTALL WATERING BAGS ON ALL TREES AND SHRUBS. UTILIZE OOOZ TUBE 25 GALLON, BROWN, LOW PROFILE WATERING SYSTEM. FILL BAGS WITH IMPORTED WATER AT TIME OF INSTALLATION.



TREE INSTALLATION DETAIL
NOT TO SCALE



SHRUB INSTALLATION DETAIL
NOT TO SCALE

General Legend

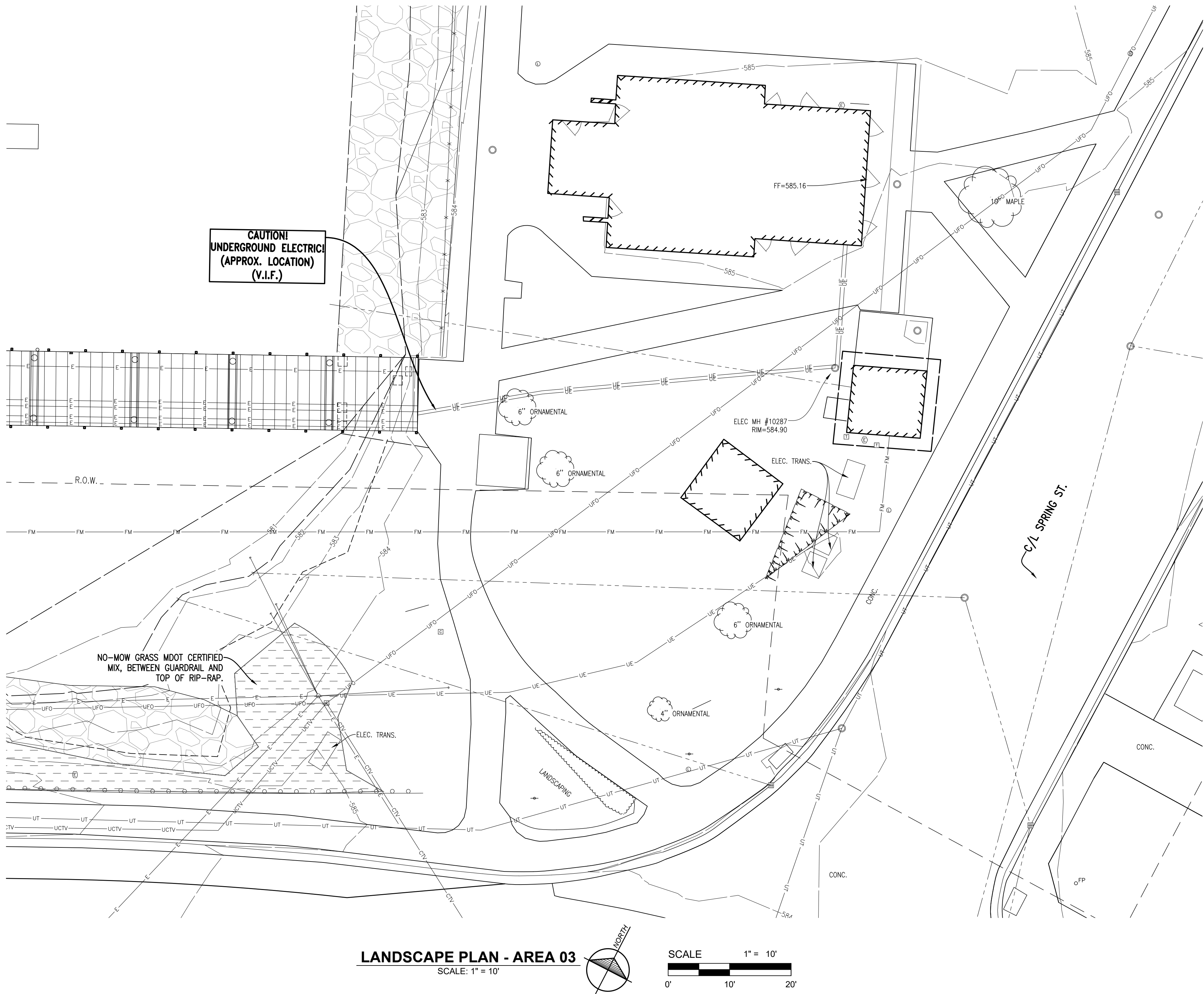
- PROJECT LIMITS
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- PROP. EDGE OF ASPHALT
- PROP. EDGE OF CONCRETE
- EX. CONTOUR
- PROP. CONTOUR

Landscape Legend

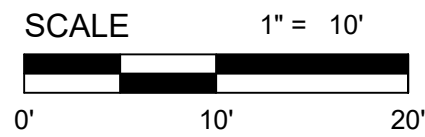
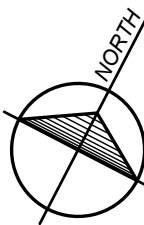
- IRRIGATED TURF
- NO-MOW GRASS

General Landscape Notes

- CONTRACTOR SHALL ADEQUATELY DELINEATE PLANTING AREAS WITH MARKING PAINT OR OTHER APPROVED METHOD PRIOR TO INSTALLATION FOR APPROVAL BY LANDSCAPE ARCHITECT.
- REFER TO SPECIFICATION 02950 FOR LANDSCAPING INSTALLATION INFORMATION.
- IN CASE OF A DISCREPANCY, THE NUMBER OF TREE/SHRUB SYMBOLS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER QUANTITY ON NUMERICAL LABEL OR PLANT SCHEDULE.
- PROVIDE A MINIMUM 3" DEPTH OF RED PINE LANDSCAPE MULCH (EQUAL TO RED PINE MULCH FROM TRAVERSE OUTDOOR, TRAVERSE CITY, MI) IN ALL PLANTING BEDS AS INDICATED ON PLANS. SUBMIT A SAMPLE OF THE MULCH TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. FINISHED GRADE OF MULCH SHALL BE FLUSH WITH GRADE OF ALL ADJACENT PAVING AND CURBS TO ALLOW FOR SETTLING.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE PLANTING MIX FOR PLANTING MEDIUM FOR THE TREES AND SHRUBS. PROVIDE PLANTING MIX SAMPLE RATIO FOR APPROVAL BY LANDSCAPE ARCHITECT.
- COORDINATE THE LANDSCAPE INSTALLATION WITH THE INSTALLATION WITH THE FINAL SITE PARKING AND PAVING PLAN. COORDINATE THE LANDSCAPE INSTALLATION TO INSURE VISIBILITY OF ALL TRAFFIC SIGNAGE. COORDINATE THE LANDSCAPE INSTALLATION WITH UTILITY LOCATIONS.
- STAKE THE LOCATIONS OF ALL TREES AND MASS PLANTING AREAS AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. MAKE MINOR ADJUSTMENTS IN THE TREE LOCATIONS REQUIRED DUE TO UTILITY ITEMS.
- TREES SHALL BE SELECTED WITH FORMS ADAPTABLE TO PLACEMENT ADJACENT TO SIDEWALKS AND VEHICULAR USE AREAS. TREES SHALL HAVE FORMS ADAPTABLE TO FUTURE PRUNING FOR PEDESTRIAN AND VEHICULAR CLEARANCE.
- ALL CONTAINER GROWN MATERIAL SHALL BE THOROUGHLY HAND WATERED UPON ARRIVAL, WHILE IN THE CONTAINERS, BEFORE PLANTING. DO NOT BIND OR STRAP THE TRUNKS IN THE REMOVAL FROM THE TRUCKS. PROTECT THE TRUNKS AT ALL TIMES.
- PROVIDE A MINIMUM 3'-0" DIAMETER TREE WELL WITH A 4" SAUCER FOR ALL TREES LOCATED IN TURF AREAS. PROVIDE 3" DEPTH OF MULCH INSIDE SAUCERS. REVIEW SUBSURFACE DRAINAGE CONDITIONS. INSTALL TREES "HIGH" IF NECESSARY, DUE TO SUBSURFACE CONDITIONS.
- PRUNE ANY ADDITIONAL TREES AS REQUIRED BY THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR OR OWNER.
- ALL MASS PLANTINGS SHALL BE EVENLY SPACED AS SHOWN ON PLANS TO ENSURE EVEN COVERAGE. SET PLANTS OFF CURBS AND WALKS TO PREVENT OVERGROWTH INTO UNWANTED AREAS.



LANDSCAPE PLAN - AREA 03
SCALE: 1" = 10'



General Legend

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- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROP. EDGE OF ASPHALT
- PROP. EDGE OF CONCRETE
- EX CONTOUR
- PROP. CONTOUR

Landscape Legend

- IRRIGATED TURF
- NO-MOW GRASS

GoslingCzubak
engineering sciences, inc.
1280 Business Park Dr.
Traverse City, Michigan
231-946-9191 phone
info@goslingczubak.com
www.goslingczubak.com

CIVIL ENGINEERING
SURVEYING
ENVIRONMENTAL SERVICES
GEOTECHNICAL
CONSTRUCTION SERVICES
DRILLING
LANDSCAPE ARCHITECTURE

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01	02-06-2020	POST-BID ADDENDUM 001	DAW

LANDSCAPE & IRRIGATION PLAN - AREA 03
JOINING JORDAN - PROJECT #MSC 218022-CPF
EAST JORDAN DDA

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Sheet: L3

3 ELIMINATE EAST SIDE PARK AND LANDSCAPING.